BEFORE THE STATE CORPORATION COMMISSION
OF THE STATE OF KANSAS

In the Matter of the Application of Westar Energy, Inc. for a Siting Permit for the Construction of a 345 kV Transmission Line in Riley and Pottawatomie Counties, Kansas.	))))	Docket No. 15-WSEE-365-MIS

APPLICATION

COMES NOW Westar Energy, Inc. (Westar) pursuant to K.S.A. 66-1,178, et seq., and any other applicable statutes, rules and/or regulations, and files this Application with the State Corporation Commission of the State of Kansas (Commission or KCC) for a siting permit granting Westar the right to construct a 345 kV transmission line from Westar's Jeffrey Energy Center Substation to Westar's East Manhattan Substation, located near Manhattan, Kansas. In support of this Petition, Westar states:

1. Westar is a corporation duly incorporated under the laws of the State of Kansas and is engaged, among other things, in the business of an electric public utility, as defined by K.S.A. 66-104, in legally designated areas within the State of Kansas. Westar holds certificates of convenience and authority issued by this Commission authorizing it to engage in such utility business. Westar does business under the name "Westar Energy."

2. In this Application, Westar seeks a siting permit authorizing it to construct a new, 345 kV transmission line from Westar's Jeffrey Energy Center (JEC) Substation to Westar's East Manhattan Substation, located near Manhattan, Kansas to replace the existing 230 kV line between those substations. The new transmission line will be engineered and constructed to 345 kV standards, but will continue to be operated at 230 kV until such time in the future that SPP authorizes operation at 345 kV.

3. Support for the filing is provided in the testimony of the following witnesses:

Kelly B. Harrison	Overview and Policy
Julie Lux	Need for the line and the cost recovery mechanism for the line
Kristi Wise, Burns & McDonnell, Inc.	Process used to determine the preferred route

4. In addition to undersigned counsel, the names, addresses and telephone numbers of Westar's representatives upon whom all notices, pleadings, correspondence, and other documents regarding this Application should be served are as follows:

Jeff L. Martin Vice President, Regulatory Affairs P.O. Box 889 818 S. Kansas Avenue Topeka, Kansas 66601 (785) 575-6362 jeff.martin@westarenergy.com	Kelly B. Harrison Vice President, Transmission P.O. Box 889 818 S. Kansas Avenue Topeka, Kansas 66601 (785) 575-1636 kelly.harrison@westarenergy.com

5. During its development of its Integrated Transmission Plan (ITP), the Southwest Power Pool (SPP) identified a reliability issue related to the existing 230 kV line between the JEC substation and the East Manhattan substation. Westar proposed construction of the 345 kV line that is the subject of this Application as a solution for the reliability problem identified by SPP and SPP included Westar's proposed solution as part of its Integrated Transmission Planning Near-Term (ITPNT) Assessment that was approved by the SPP Board of Directors on January 28, 2014.

6. The proposed line will address the reliability issue that currently exists with the 230 kV line between the JEC substation and East Manhattan substation and eliminate the risks associated with the overloading of that line. Those risks include having to reduce the output of

JEC to reduce loading on the line, causing Westar to have to purchase generation from other sources at higher costs.

7. Westar currently estimates that it will cost approximately $58.3 million to construct the proposed line. This is a preliminary estimate based on current costs of labor and materials and the cost to acquire needed right of way. The actual costs of construction may differ from this estimate and will be affected by, among other things, the final route selected, structure design, changes in commodity prices and labor rates.

8. The proposed line will benefit electric customers both inside and outside of Kansas, ensuring continued access to low-cost power from JEC – one of Westar's essential base load power plants. SPP is filing testimony shortly after Westar's filing of this Application in order to present the results of the ITPNT Assessment.

9. Westar selected the route after a series of open houses through which it received input from landowners and residents in the areas along potential routes. Westar also sought and received input from state and federal agencies and public interest groups. All of the information received from these contacts was used to identify a route that minimizes adverse social and environmental impacts of the line. Ms. Wise's testimony describes the route selection process in detail.

10. Westar will submit a wire stringing application pursuant to K.S.A. 66-183 and K.A.R. 82-12-1, *et seq.*, after design of the line is complete.

Proposed Facilities

Overview of project

11. Westar is proposing to construct a single-circuit 345 kV transmission line from the JEC substation to the East Manhattan substation.

12. The length of Westar's proposed line will be approximately 25.6 miles. Exhibit KBH-1 to Mr. Harrison's testimony is a map showing the proposed line. The line will cross portions of Riley and Pottawatomie counties.

Transmission Facilities

13. The transmission line will be constructed using either tubular steel "H-Frame" structures or single pole tubular steel structures commonly seen in rural areas of Kansas. The structures will be spaced approximately 600 to 1200 feet apart. The poles for each individual H-frame structure will be approximately 27 feet apart. H-frame structures and single pole structures may be either directly embedded using a crushed rock backfill or may utilize a concrete pier foundation. The minimum ground clearance for the 345 kV circuit will be above that required by the National Electric Safety Code.

14. Drawings of typical single-circuit, H-frame and single pole structures are provided in Exhibit KBH-4. The height of the structures will vary depending on span length, required clearances, and local terrain, but will typically range between 80 and 160 feet.

15. The proposed line will be constructed using aluminum, steel-reinforced (ACSR) conductors, 1590 KCM-ACSR 45/7 (Code Name "Lapwing") conductor. This conductor is constructed of 45 strands of aluminum wrapped around 7 steel strands with an overall diameter of 1.502 inches. This line will utilize a two-conductor bundle for each of the three phases. The two conductors in each bundle will be approximately 18 inches apart and will be arranged in a horizontal bundle. In a conductor of this type, the aluminum strands carry the load current; the mechanical strength to support the conductors is provided by the steel core. Non-ceramic suspension insulators will be used to suspend the bundled phase conductors.

16. The line will be protected from lightning by overhead shield wires strung at the uppermost extremity of the supports. One shield wire will be an optical ground wire composed of ten strands of aluminum-coated steel (alumoweld) wire wrapped around a centrally located aluminum alloy pipe that contains the optical fibers. The optical fibers will be used as a communications medium for line protective relaying and for internal communications.

17. Non-electric wire fence within a distance of 150 feet from the center of the right-of-way will be grounded at intervals to limit the electromagnetically induced levels of static charges to safe levels. Fences that cross the line route will be grounded at both edges of the right-of-way. Electric fences will be grounded where necessary with the addition of a 60 Hz series filter at each grounding location. Permanently installed metallic objects within 150 feet of the outside phase conductor of the line will be grounded. Minimum ground clearance for the conductor will be chosen to limit induced voltage in ungrounded metallic objects (such as a vehicle parked near the line) to a value that keeps induced current to less than 5 milliamperes.

18. A minimum horizontal clearance distance of 50 feet from the closest phase of the line to existing dwellings will be maintained wherever possible. Construction of the line will consist of right-of-way clearing, structure assembly, structure erection, stringing and tensioning of conductors and shield wires, energizing the line, and cleanup/re-vegetation. Timber within the right-of-way will be removed or trimmed as necessary to assure reliability and safety of the line. All conductors and shield wires will be tension strung.[1] Use of this method will ensure that the conductor will not touch the ground or other objects during construction. Care in handling the

[1] This system involves stringing a rope between structures for each conductor and shield wire. The rope pulls a steel cable, which in turn strings the electrical conductor through neoprene-lined stringing blocks to protect the conductor from abrasion.

conductor will keep its surface smooth, thereby minimizing corona and associated radio-TV interference and audible noise.

19. Structures will be assembled in the field. Tangent structures will be unguyed. Heavy angles and dead ends will be self-supported steel structures. The construction crew will be composed of approximately 50 to 75 workers using equipment that includes foundation drilling equipment, cranes, stringing rigs, conductor tensioners, excavators, skid steers, trucks, cars and other items.

20. Construction equipment and other vehicles will travel along the right-of-way, where possible, and the need for access roads to the work areas will be minimal. Cut and fill operations to facilitate construction activities will not be required for this project. Westar will apply for a construction activity, National Pollutant Discharge Elimination System (NPDES) permit from the Kansas Department of Health and Environment (KDHE) pursuant to the provisions of K.S.A. 65-164 and 65-165, and the Federal Water Pollution Control Act as amended, 33 U.S.C. 1251 et seq.

21. Before construction begins, a storm water pollution prevention plan (SWPPP) will be developed and submitted to KDHE. The purpose of the SWPPP is to ensure the design, implementation, management, and maintenance of "best management practices" (BMPs) in order to reduce the amount of sediment and other pollutants in storm water runoff from the construction site. Westar, its representative, and/or the contractor(s) responsible for installation, operation, and maintenance of the BMPs will have a current copy of the SWPPP with them during construction. The construction site will be inspected on a regular schedule and within 24 hours after a storm event as listed in the approved permit. A report of each inspection will be prepared, and KDHE will be notified when final stabilization of the site is complete.

22. Westar will inspect the construction and clean-up operations to assure compliance with specifications and standard procedures. Maintenance inspections will be performed by walking, driving or flying along the line routes.

Right-of-Way Requirements

23. The nominal width of the right-of-way will be 150 feet. However, the right-of-way could be more or less in specific areas depending on span length, conductor sag and wind characteristics.

24. Landowners will be able to use the right-of-way for any agricultural purpose that does not interfere with use of the line at full rated capacity. However, landowners will not be permitted to conduct business in the right-of-way that would be hazardous to the landowner, the line, or to the general public (such as a pipe storage yard or tree farm). No foreign structures will be permitted in any part of the right-of-way. Trees and brush in the right-of-way will be trimmed or removed. Herbicides will be used to control woody vegetation and re-growth of trees and brush in the right-of-way except in the case of certified organic farms or similar situations.

25. Easements will be procured from landowners prior to construction. Landowners will be compensated for all damages including crop losses that are directly attributable to construction.

Project Schedule

26. Depending on how long it takes to acquire right-of-way, Westar anticipates that construction of its proposed project will be completed by June 2017.

27. Surveying and design work associated with the acquisition of easements would be done in conjunction with acquiring the easements. Upon approval of this Application, these activities would begin in late June 2015. Construction activities on the right-of-way, including

vegetation clearing, would take approximately 19 months beginning in November 2015, if right-of-way can be acquired in time.

Siting and Environmental

28. A description of siting activities and Westar's approach to issues surrounding siting, such as environmental issues, is provided in Ms. Wise's testimony.

Landowner List

29. A list with the names and addresses of the landowners of record whose land or interest therein is proposed to be acquired in connection with the construction of the proposed line or is located within 1000 feet of the center line of the easement where the line is proposed to be located is included with this application as Attachment 1.[2]

WHEREFORE, Westar requests that the Commission issue its order authorizing Westar to site and construct the proposed transmission line and for such other and further relief as may be appropriate.

Respectfully submitted,

Westar Energy, Inc.

Cathryn Dinges

Cathryn J. Dinges, #20848
Senior Corporate Counsel
818 South Kansas Avenue
Topeka, Kansas 66612
(785) 575-8344; Telephone
(785) 575-8136; Fax

ITS ATTORNEY

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[2] K.S.A. 66-1,178 requires the applicant to specify "the names and addresses of the landowners of record whose land or interest therein is proposed to be acquired in connection with the construction of or is located within 660 feet of the center line of the easement where the line is proposed to be located." In its route selection process, Westar identified landowners within 1000 feet of the proposed line in order to have a better assurance that affected landowners would be identified and have an opportunity to provide input concerning location of the line. The list provided in Attachment 1 therefore exceeds the requirement of K.S.A. 66-1,178.

VERIFICATION

STATE OF KANSAS)
) ss:
COUNTY OF SHAWNEE)

Cathryn J. Dinges, of lawful age, being first duly sworn upon oath, deposes and states: That she is the attorney for the within named applicant, that she has read the above and foregoing application, and that the statements therein contained are true according to her knowledge and belief.

Cathryn Dinges
Cathryn J. Dinges

SUBSCRIBED AND SWORN to before me this 20th day of February, 2015.

Debbielee A. Papps
NOTARY PUBLIC—STATE OF KANSAS
MY APPT EXP:

DebbieLee A. Papps
Notary Public

My Appointment Expires: June 24, 2017

DATE: FEBRUARY 18, 2015

WESTAR ENERGY - JEFFREY ENERGY CENTER TO EAST MANHATTAN 345 kV PROJECT
LIST OF LANDOWNERS ALONG THE PREFERRED ROUTE

ALPHA BY LAST NAME	OWNER NAME 1	OWNER NAME 2	OWNER MAILING ADDRESS	City	State	Zip
ANDERSON	ROGER D. & SUSAN J. ANDERSON		137 RIVERVIEW DR.	WAMEGO	KS	66547
ARMITAGE	BOB R. & JANE M. ARMITAGE		13507 ELM SLOUGH RD.	WAMEGO	KS	66547
ARTHUR	CHARLES S. JR. ARTHUR TRUST		801 POYNTZ AVE.	MANHATTAN	KS	66502
ARTZER	DIANA KAY & MICHAEL E. ARTZER		2805 MEADOW VALLEY WAY	CUMMINGS	GA	30041
AULT	BRYAN B. & AMY E. AULT		5550 VINEYARD RD.	WAMEGO	KS	66547
AULT	WAUNITA R. AULT		1607 4TH ST. #113	WAMEGO	KS	66547
BAILEY	JUDY L. BAILEY		15120 PRAIRIE VIEW CIR.	WAMEGO	KS	66547
BAILEY MOVING & STORAGE COMPANY	BAILEY MOVING & STORAGE COMPANY	ALLIED BAILEY MOVING & STORAGE	213 SW JACKSON ST.	TOPEKA	KS	66603
BALL	BERTHA M. BALL		5375 GREEN VALLEY RD.	MANHATTAN	KS	66502
BARUTH	SCOTT D. & TANYA M. BARUTH		5312 TERRA HEIGHTS DR.	MANHATTAN	KS	66503
BATES	LYNN S. & GYLL C. BATES		731 MCCALL RD.	MANHATTAN	KS	66502
BELLINGER	ROBERT L. BELLINGER		4950 GREEN VALLEY RD.	MANHATTAN	KS	66502
BOLTON	VON J. BOLTON		11725 BOBS LN.	ST. GEORGE	KS	66535
BONAWITZ	SHARON MAE BONAWITZ	JULIUS LINTZ TRUST	3026 TUMBLEWEED TERR.	MANHATTAN	KS	66502
BORTH	JERRY D. & LINDA J. BORTH		11880 BIG SKY LANE	ST. GEORGE	KS	66535
BOSSE	LANNY L. BOSSE		15770 STONEYBRICK DRIVE	WAMEGO	KS	66547
BOYCE	WILLIAM A. & CHRISTY J. BOYCE		18820 MILITARY CAMP RD.	WAMEGO	KS	66547
BRIGGS	PATRICK R. & GEORGIA ELENE BRIGGS		3315 APPLEYARD RD.	WAMEGO	KS	66547
BRODERSEN	PATRICK M. BRODERSEN		5960 PRAIRIE VIEW RD.	WAMEGO	KS	66547
BROOKS	DANIEL R. & LINDA K. BROOKS		5930 FLINT ROCK RD.	WAMEGO	KS	66547
BROOKS	JOHN JR. & WILMA M. BROOKS		5607 ELBO SHORE DR.	MANHATTAN	KS	66502
BROWN	DONALD E. & NANCY C. BROWN		5619 ELBO RIDGE DR.	MANHATTAN	KS	66502
BUSSE	TERRY W. & BARBARA J. BUSSE		5593 MOODY RD.	MANHATTAN	KS	66502
CAMACHO	EDITH & OSCAR CAMACHO		5916 BOBWHITE AVE.	EL PASO	TX	79924
CAMPBELL	SYLVETTE T. & MARC D. CAMPBELL		15650 STONEYBRICK DR.	WAMEGO	KS	66547
CHERRY	KIRK A. & CATHI L. CHERRY		3299 W. LYONS CREEK RD.	JUNCTION CITY	KS	66441
CITY OF MANHATTAN	CITY OF MANHATTAN		1101 POYNTZ AVE.	MANHATTAN	KS	66502-5497
CLARK	MICHAEL & JODY CLARK		13555 CURTIS CIRCLE	WAMEGO	KS	66547
COLE	GERALD L. & WILMA I. COLE	COLE BROTHERS FARM	604 ASH	WAMEGO	KS	66547
COLEMAN	DAVID E. COLEMAN		2131 OAK ST.	MANHATTAN	KS	66502
COPELAND	JAMES & SUSAN A. COPELAND		12955 ELM SLOUGH RD.	ST. GEORGE	KS	66535
CRAGG	WYNN S. CRAGG		501 E. 26TH AVE.	MANHATTAN	KS	66502

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CROSS	DEREATHA A. CROSS		5614 ELBO BLUFF	MANHATTAN	KS	66502
CROSS	LAURA LEE CROSS TRUST		1607 4TH ST.	WAMEGO	KS	66547
DEVAULT	JAMES E. & GUNILE A . DEVAULT TRUST		15860 STONEYBRICK DR.	WAMEGO	KS	66547
DIXON	LARRY D. DIXON		5415 MOODY ROAD	MANHATTAN	KS	66502
DONE	RE: DONE OR CURRENT RESIDENT	REGARDS TO PROPERTY AT NELSON'S RIDGE SUB UN TWO Lot: 66	501 LARAMIE ST.	MANHATTAN	KS	66502
DOUTHIT	TERESA L. DOUTHIT		12380 ELM SLOUGH RD.	ST. GEORGE	KS	66535
DOYLE	BRENDAN NEIL DOYLE	ANN-MARIE KENNEDY	15943 MANDY LN.	WAMEGO	KS	66547
DOYLE	BRENDAN NEIL DOYLE	ANN-MARIE KENNEDY	1903 BUFFALO SOLDIER PKWY	JUNCTION CITY	KS	66441
DRIPPE CONSTRUCTION	DRIPPE CONSTRUCTION	MICHAEL DRIPPE	1219 PAWNEE DRIVE	ST. MARYS	KS	66536
EBERT	KAY A. EBERT TRUST	THOMAS L. EBERT TR.	11650 LOUISVILLE RD.	ST. GEORGE	KS	66535
EBERT	MARK A. & MARY J. EBERT TRUST	MATTHEW E. DEKAT	17655 HANSON RD.	ST. GEORGE	KS	66535
EBERT	MARK A. & MARY J. EBERT TRUST		6240 SALZER RD.	WAMEGO	KS	66547
EDWARDS	JOHN E. JR. & ELIZABETH F. EDWARDS		5660 FLINT ROCK RD.	WAMEGO	KS	66547
EKART	ANTHONY M. & DONNA M. EKART		5622 ELBO RIDGE DR.	MANHATTAN	KS	66502
EKART	THOMAS EKART, ETAL		110 GEHRT RD.	MANHATTAN	KS	66502
FAHRENHOLZ	CHARLES H. & CHRISTINA H. FAHRENHOLZ	MICHAEL J. & DIANE M. HEPTIG	13405 GAMMON RD.	LEE'S SUMMITT	MO	64086
FAIR	DEBORAH FAIR	CARL J. CARLSON II	1502 COUNTRY CLUB PL.	MANHATTAN	KS	66502
FAY	BETTY J. FAY	CARL J. CARLSON II	721 PIERRE	MANHATTAN	KS	66502
FEATHER FIELD FARMS	FEATHER FIELD FARMS		PO BOX 1285	MANHATTAN	KS	66505
FERRIS	MELVIN L. JR. & MARILYN L. FERRIS		6360 SALZER RD.	WAMEGO	KS	66547
FIGGE	ROBBIE A. FIGGE		7325 JAMES RD.	WAMEGO	KS	66547
FLEMING	BRANDON R. & JENNIFER L. FLEMING		12292 ELM SLOUGH RD.	ST. GEORGE	KS	66535
FORCE	JOEL STEVEN & CARRIE INEZ FORCE		5602 BAYERS HILL DR.	MANHATTAN	KS	66502
FOURAKER	JEFFREY L. & KRISTI L. FOURAKER		16355 CANNONBALL RD.	WAMEGO	KS	66547
FULTON	RICHARD & JANELLE FULTON		15901 MANDY LN.	WAMEGO	KS	66547
GRIESE	CARL E. & MAURENNE E. GRIESE		5627 ELBO RIDGE DR.	MANHATTAN	KS	66502
GRIFFITH LUMBER COMPANY	GRIFFITH LUMBER COMPANY		PO BOX 457	MANHATTAN	KS	66502
HABLUETZEL	JOHN L. & JUANITA L. HABLUETZEL TRUSTS	LOUISVILLE TOWNSHIP CEMETERY	1005 PINE	WAMEGO	KS	66547
HANSEN	TODD ALAN & BRANDI RACHEL HANSEN		10740 MT. ZION RD.	ST. GEORGE	KS	66535
HARTWICH	TRAVIS C. HARTWICH		17636 MARTEN RD.	WAMEGO	KS	66547
HEINLY	DAVID A. HEINLY	PATRICIA L. TERSTEEG	8601 E. FM 916	GRANDVIEW	TX	76050
HEINLY	DAVID A. HEINLY	PATRICIA L. TERSTEEG	8333 OAK COUNTRY LN.	MANSFIELD	TX	76063

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HENNEBERG	DEAN A. & MARJORIE A. HENNEBERG TRUST		PO BOX 63	BELVUE	KS	66407
HIBBARD	JONATHAN G. & MEGAN B. HIBBARD		4676 N. DWIGHT DR.	MANHATTAN	KS	66502
HIEGER	JOHN R. & MARLA J. HIEGER	ANTHONY J. HIEGER & JAMES D. HIEGER	7310 FLINT ROCK RD.	WAMEGO	KS	66547
HOBBS	BEVERLY P. HOBBS FAMILY TRUST	ROGER B. BREWER & GLENDA SHANEYFELT	14048 W. 151 TERR. #800	OLATHE	KS	66062
HODGES	DENNIS R. HODGES		12575 SCHOOL CREEK RD.	ST. GEORGE	KS	66535
HODGES	LORAN D. & IRENE HODGES		4455 BLACKJACK RD.	ST. GEORGE	KS	66535
HOFFMAN	ROBERT R. & JOANN HOFFMAN	JEFFREY S. & D. HOFFMAN	6160 N. HWY. 99	WAMEGO	KS	66547
HOLLENBECK	NATHANIEL & ASHLEY HOLLENBECK		15905 STONEYBRICK DR.	WAMEGO	KS	66547
HORTICULTURAL SERVICES	HORTICULTURAL SERVICES		11524 LANDSCAPE LANE	ST. GEORGE	KS	66535
HUPE	CHRISTOPHER A. & JILL R. HUPE		15805 STONEYBRICK DR.	WAMEGO	KS	66547
HUPE	RANDAL W. HUPE	PENNY HUPE	PO BOX 261	WAMEGO	KS	66547
INGALSBE	KENNAN J. & NADA L. INGALSBE		11450 WALKER RD.	ST. GEORGE	KS	66535
IRVINE	MARK T. IRVINE		5585 MOODY RD.	MANHATTAN	KS	66502
IRVINE	P. BERNARD & EMILY M. IRVINE		9340 STATE ROAD 13	MANHATTAN	KS	66502-8468
IRVINE	PAUL B. & MARY BETH IRVINE TRUSTS		3370 CASEMENT RD.	MANHATTAN	KS	66502-6612
IRVINE FAMILY REAL ESTATE	IRVINE FAMILY REAL ESTATE	MARILYN J. EWING	519 N 3RD. ST.	ATCHISON	KS	66002
JACOBSON	TRESSA MAE JACOBSON		15100 PRAIRIE VIEW CIR.	WAMEGO	KS	66547
JAGER	ERIC A. & LESLIE A. JAGER		15855 STONEYBRICK DR.	WAMEGO	KS	66547
JANES	BRIAN JANES	GAY KAHLER	2009 E. SHERIDAN BRIDGE LN.	OLATHE	KS	66062
JOHNS	B. JUNE JOHNS TRUST	JAMES L. JOHNS TR.	2008 ARTHUR DR.	MANHATTAN	KS	66502
JOHNS	JOSEPH W. & SHARON L. JOHNS	JOE JOHNS REAL ESTATE	7820 HWY. 24	MANHATTAN	KS	66502
JOHNS	PEGGY JOHNS	MARION R. TILFORD	3044 TAMARAK DR.	MANHATTAN	KS	66502
JOHNSON	AMES C. JR. & L'CHELLE E. JOHNSON		15810 STONEYBRICK DR.	WAMEGO	KS	66547
JONES	VESTA M. JONES		15145 PRAIRIE VIEW	WAMEGO	KS	66547
KANSAS STATE MILITARY BOARD	KANSAS STATE MILITARY BOARD		2800 SW TOPEKA BLVD.	TOPEKA	KS	66611
KANSAS STATE - TRANSPORTATION	KANSAS STATE -TRANSPORTATION	ATTN: DON CAMPBELL	1425 W. US HWY. 24	WAMEGO	KS	66547
KANSAS STATE - TRANSPORTATION	KANSAS STATE -TRANSPORTATION		900 SW JACKSON ST. STE. 600	TOPEKA	KS	66612
KDL	KDL		125 SW GAGE	TOPEKA	KS	66606
KESNER	STEPHEN A. & RHONDA J. KESNER TRUST		15879 MANDY LN.	WAMEGO	KS	66547
KOZAR	IVAN KOZAR SR.		13430 ELM SLOUGH RD.	WAMEGO	KS	66547
KUGLER	JOHN R. & JINA M. KUGLER		15105 PRAIRIE VIEW CIR.	WAMEGO	KS	66547

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L O THOMAS FARMS	L O THOMAS FARMS		22705 OREGON TRAIL RD.	BELVUE	KS	66407
LACOCK	LOIS L. & THOMAS P. LACOCK	LINDA A. SEITZ	PO BOX 706	ROSSVILLE	KS	66533
LAKE DEVELOPMENT CO	LAKE DEVELOPMENT CO.	JAN HAROLD	5732 ELBO SHORE DR.	MANHATTAN	KS	66502
LAMB	BRIAN L. & TOSHIA R. LAMB		10790 MT. ZION RD.	ST. GEORGE	KS	66535
LAMB	DONALD L. & DOROTHY M. LAMB TRUST		10865 SCHOOL CREEK RD.	ST. GEORGE	KS	66535
LARSON	BYRON D. & LINDA S. LARSON		9425 MT. ZION RD.	MANHATTAN	KS	66502
LEE	NANCY L. LEE		5610 BAYERS HILL DR.	MANHATTAN	KS	66502
LEWIS	KENT L. & RENITA G. LEWIS		5627 BAYERS HILL DR.	MANHATTAN	KS	66502
LEWIS	RICKY A. & ROSALIND L. LEWIS		13477 CURTIS CIR.	WAMEGO	KS	66547
LIND	JAMES & EVELYN LIND		15160 PRAIRIE VIEW CIR.	WAMEGO	KS	66547
LONG	WILLIAM J. & MISSY B. LONG		15125 PRAIRIE VIEW CIR.	WAMEGO	KS	66547
LONSINGER	CAROLYN DIANE & RICHARD LONSINGER	EATON TRUST	117 S. 10TH	OSBORNE	KS	67473
LOREE	MARY L. LOREE		5301 GREEN VALLEY RD.	MANHATTAN	KS	66502
LOUISVILLE CITY	LOUISVILLE CITY		PO BOX 234	WAMEGO	KS	66547
LOVE	ERNEST M. & KATHRYN A. LOVE	A. J. GRIFFIN, ETAL	9489 MT. ZION RD.	MANHATTAN	KS	66502
MACKE	MARY KATHLEEN & CARROLL B. MACKE	JOHN D. IRVINE TR.	10008 CLEVELAND AVE.	KANSAS CITY	KS	66109
MALONE	MALONE		2821 NEVADA ST.	MANHATTAN	KS	66502
MANHATTAN CITY DREILING REAL ESTATE	MANHATTAN CITY DREILING REAL ESTATE		520 MCCALL RD.	MANHATTAN	KS	66502
MANHATTAN CITY FRATERNAL INVESTORS	MANHATTAN CITY FRATERNAL INVESTORS		1470 LIBERTY ST.	KANSAS CITY	MO	64102
MCANERNEY	PAUL B. & MARIA A. MCANERNEY		5124 MARY RUTH CIR.	ST. GEORGE	KS	66535
MCCORMICK	BRENT & CANDY MCCORMICK		14455 ELM SLOUGH RD.	WAMEGO	KS	66547
MCDIFFETT	JODY M. & ALANNA C. MCDIFFETT		5933 PRAIRIE VIEW RD.	WAMEGO	KS	66547
MCMILLIN	MARK T. MCMILLIN & THERESA L. RICKEL-MCMILLIN	LAKE ELBO CLUB	5629 ELBO BLUFF DR.	MANHATTAN	KS	66502
MCREYNOLDS	JOHN M. MCREYNOLDS		5305 MOODY RD.	MANHATTAN	KS	66502
MEINHARDT	JOE & DARYLENE A. MEINHARDT	EDWARD W. PUGH	700 EHLERS RD.	MANHATTAN	KS	66505
MEYER	JEREMY R. MEYER		13155 CHAPMAN RD.	ST. GEORGE	KS	66535
MEYER	JEREMY R. MEYER		817 COLORADO ST.	MANHATTAN	KS	66502
MEYER	RICHARD C. MEYER		16855 MILITARY TRAIL RD.	WAMEGO	KS	66547
MEYER	DOUGLAS CARL & MELISSA MEYER		11705 LANDSCAPE LN.	ST. GEORGE	KS	66535
MILLER	ARMAN A. & KARI L. MILLER		12756 GLACIER RD.	MAPLE HILL	KS	66507
MILLER	JOHN MILLER TRUST		5454 VINEYARD RD.	WAMEGO	KS	66547

WESTAR ENERGY - JEFFREY ENERGY CENTER TO EAST MANHATTAN 345 kV PROJECT
LIST OF LANDOWNERS ALONG THE PREFERRED ROUTE

ALPHA BY LAST NAME	OWNER NAME 1	OWNER NAME 2	OWNER MAILING ADDRESS	City	State	Zip
MIXON	JOHN R. & ANNETTE R. MIXON		2409 BUTTONWOOD DR.	MANHATTAN	KS	66502
MOWRY	VINCE & TARA J. MOWRY		5450 FLUSH RD.	ST. GEORGE	KS	66535
MOYER RANCH INC	MOYER RANCH, INC.		901 KNOX LN.	MANHATTAN	KS	66502-6734
MURDOCK	MARY K . MURDOCK TRUST		600 MCCALL ROAD	MANHATTAN	KS	66502
NAYLOR	BRENT & BOBI NAYLOR		15140 PRAIRIE VIEW CIRCLE	WAMEGO	KS	66547
NELSON	MICHAEL & LINDSAY MARIE NELSON		5577 MOODY RD.	MANHATTAN	KS	66502
NELSON	FRANCIS M. & LINDSAY MARIE NELSON		5577 MOODY RD.	MANHATTAN	KS	66502
NELSON	FRANCIS M. & LINDSAY MARIE NELSON		211 N. JULIETTE AVE.	MANHATTAN	KS	66502
NELSON	JAMES C. NELSON TRUST	JAMIA I. NELSON TRUST	5522 VINYARD RD.	WAMEGO	KS	66547
NELSON	THOMAS K. & SUSAN O. NELSON		3177 W. 2700 S.	SYRACUSE	UT	84075
NELSON	DAVID D. NELSON TRUST	NELSON'S RIDGE	PO BOX 374	WAMEGO	KS	66547
NELSON	DENNIS L. & BRANDEY M. NELSON		5125 MARY RUTH CIR.	ST. GEORGE	KS	66535
NEWMAN	M. LINN & LINDA NEWMAN		12755 ELM SLOUGH RD.	ST. GEORGE	KS	66535
NEWMAN	DUSTIN L. & CASSANDRA L. NEWMAN		7205 ASHBY RD.	WAMEGO	KS	66547
O'NEIL	FRANKLIN O'NEIL TRUST		2156 INDIAN RD.	BEATTIE	KS	66406
PARKER	CHARLES E. PARKER TRUST	BONNIE L. PARKER TR.	9775 MT. ZION RD.	MANHATTAN	KS	66502
PARKS	JOY J. PARKS TRUST		7120 N. HWY. 99	WAMEGO	KS	66547
PARRICK	RONALD L. & KATHLEEN S. PARRICK		11674 BOBS LANE	ST. GEORGE	KS	66535
PAULEY	ALICE PAULEY & DIANE HAFFENER	JULIUS LINTZ TR.	13860 ELM SLOUGH RD.	WAMEGO	KS	66547
PEDDICORD	RORY W. & JAMIE N. PEDDICORD		244 WESTWOOD RD.	MANHATTAN	KS	66502
PENCE	JOHN T. & KAREN T. PENCE	FIRST NATIONAL BANK	PO BOX 913	HUTCHINSON	KS	67504
PENCE	JOHN T. & KAREN T. PENCE		2361 GRANDVIEW TERR.	MANHATTAN	KS	66502
PETERSON	PATRICIA M. PETERSON TRUST		8100 ONAGA RD.	BELVUE	KS	66407
PHINNEY	GALEN L. & PAMELA S. PHINNEY		15836 MANDY LN.	WAMEGO	KS	66547
PITTENGER	SARAH L. PITTENGER	STEVEN PITTENGER	3322 SOUTH FORK RD.	CODY	WY	82414
POTTAWATOMIE COUNTY	POTTAWATOMIE COUNTY		PO BOX 187	WESTMORELAND	KS	66549
POTTAWATOMIE COUNTY RURAL WATER DISTRICT NO 1	POTTAWATOMIE COUNTY RURAL WATER DISTRICT NO. 1		5650 N. HWY. 99	WAMEGO	KS	66547
POYNTZ AVENUE PROPERTIES	POYNTZ AVENUE PROPERTIES		800 LEVEE DR.	MANHATTAN	KS	66502
PROCKISH	JERRY D. & NORMAN PROCKISH		5611 BAYERS HILL RD.	MANHATTAN	KS	66502
PROPST	RYAN J. & MEGAN L. PROPST		15215 LAKEVIEW CIRCLE	WAMEGO	KS	66547
PURPLE WAVE HOLDINGS	PURPLE WAVE HOLDINGS		825 LEVEE DR.	MANHATTAN	KS	66502

WESTAR ENERGY - JEFFREY ENERGY CENTER TO EAST MANHATTAN 345 kV PROJECT
LIST OF LANDOWNERS ALONG THE PREFERRED ROUTE

ALPHA BY LAST NAME	OWNER NAME 1	OWNER NAME 2	OWNER MAILING ADDRESS	City	State	Zip
PYATT	AMY M. PYATT		4401 NW VALLEY RD.	TOPEKA	KS	66618
RADER	MICHAEL D. & BELINDA S. RADER		11675 BOBS LANE	ST. GEORGE	KS	66535
RAKOWITZ	DANIEL J. & NIKI L. RAKOWITZ		13480 ELM SLOUGH RD.	WAMEGO	KS	66547
RAND	INEZ B. RAND TRUST	RAND TRUST	1607 SUNSET DR.	WAMEGO	KS	66547
RANEY	RICHARD R. & SONIA D. RANEY		PO BOX 50	SCANDIA	KS	66966
RENYER	JAMES H. & MARY A. RENYER		2328 124TH RD.	SABETHA	KS	66534
RIAT	JAMES F. RIAT TRUST	ARVELLA E. RIAT TR.	975 N. DOUGLAS ST.	LAKE CITY	IA	51449
RIAT	ROBERT D. RIAT	VERNE & LILLIAN GOCKEN	PO BOX 136	WAMEGO	KS	66547
RILEY	WILLIAM M. JR. RILEY TRUST	ERMA JEAN RILEY TR.	4555 MEADOWCREST CT.	MANHATTAN	KS	66502
RINIKER	RAYMOND E. RINIKER TRUST		20500 BAIR RD.	BELVUE	KS	66407
ROBERTS	JOHN W. & CONNIE L. ROBERTS	SHERRY J. & JON M. BONAWITZ	5615 ELBO BLUFF DR.	MANHATTAN	KS	66502
ROGER	DAVID ROGER & JUDIETH LYNN TINKMAN		8759 KINZIE JO'S WAY	MANHATTAN	KS	66502
ROGERS PROPERTIES	ROGERS PROPERTIES		2800 MARLETT	MANHATTAN	KS	66502
ROSS	CHRISTOPHER J. W. ROSS		5610 ELBO BLUFF	MANHATTAN	KS	66502
RURAL WATER DIST #1	RURAL WATER DIST #1		PO BOX 233	WAMEGO	KS	66547
RURAL WATER DIST #4	RURAL WATER DIST #4	BILL FLEISCHER	6005 CAMP CREEK RD.	BELVUE	KS	66407
RW REAL ESTATE II	RW REAL ESTATE II		3635 MAIN ST.	KANSAS CITY	MO	64111
SANDERS	CHRISTOPHER J. SANDERS	ANGIE RENEE WAGENBLAST-SANDERS	2307 VINEYARD CIR.	MANHATTAN	KS	66502
SCHLEGEL	MICHAEL D. & ALAINE R. SCHLEGEL		1166 MEADOWBROOK LN.	MANHATTAN	KS	66503
SETZER	VERNON O. SETZER	RALPH SETZER	13805 LOUISVILLE RD.	ST. GEORGE	KS	66535
SHULTZ	BRIAN & MELISSA SHULTZ	FINE FURNITURE BY SHULTZ	11774 BOBS LANE	ST. GEORGE	KS	66535
SIMMONS	WAYNE N. & AUBREE L. SIMMONS		5140 HOPKINS CREEK RD.	ST. GEORGE	KS	66535
SNOKE	MELVIN G. SNOKE		2200 6TH ST.	WAMEGO	KS	66547
SORENSEN	ROBERT M. & ALICIA P. SORENSEN		14603 KILLARNEY LN.	SMITHVILLE	MO	64089
SPENCE	RONALD P. SPENCE		5174 MARY RUTH CIR.	ST. GEORGE	KS	66535
STEINBERGER	THOMAS A. & ANITA R. STEINBERGER TRUST		7380 LOUIS VIEUX RD.	WAMEGO	KS	66547
STEPHEN	AYRES STEPHEN		1605 MAPLE LEAF CT.	BALDWIN CITY	KS	66006
STEWART	JEAN A. STEWART		5611 ELBO RIDGE	MANHATTAN	KS	66502
STICH	MICHAEL J. & JOYCE E. STICH		4750 HWY. 99	WAMEGO	KS	66547
STREETER	JOHN W. & LINDA L. STREETER		6765 SALZER RD.	WAMEGO	KS	66547
SUNLEY	RONALD L. & BARBARA S. SUNLEY		7475 ASHBY RD.	WAMEGO	KS	66547
SWANN	LARRY T. & DARLENE A. SWANN		15740 STONEYBRICK DR.	WAMEGO	KS	66547

WESTAR ENERGY - JEFFREY ENERGY CENTER TO EAST MANHATTAN 345 kV PROJECT
LIST OF LANDOWNERS ALONG THE PREFERRED ROUTE

ALPHA BY LAST NAME	OWNER NAME 1	OWNER NAME 2	OWNER MAILING ADDRESS	City	State	Zip
TAUSCHEK	JEFFREY J. & TRACY L. TAUSCHEK TRUST		5625 LAKE ELBO RD.	MANHATTAN	KS	66502
TESSENDORF	JIMMY D. & SHAREN K. TESSENDORF TRUST		18290 OREGON TRAIL RD.	WAMEGO	KS	66547
THOMAS FAMILY TRUST	THOMAS FAMILY TRUST	LUCILE M. BERGES TR.	5461 OAKLEAF PT.	SAN DIEGO	CA	92124
TIBBETTS	ROBERTA ANN TIBBETTS		1007 WEST 8TH	PRATT	KS	67124
TRAPP	LARAMIE B. & MEGAN G. TRAPP		11520 WALKER RD.	ST. GEORGE	KS	66535
TRECEK	PRESTON A. & KELLI A. TRECEK		8450 LAKE ELBO RD. #66535	ST. GEORGE	KS	66535-9739
UBEL	DELBERT P. & CHERI C. UBEL		11210 WALKER RD.	ST. GEORGE	KS	66535
UBEL	CARROL D. UBEL TRUST		9575 HARVEST RD.	MANHATTAN	KS	66502
UMSCHEID	MARY A. UMSCHEID		17405 ROCKPORT RD.	WAMEGO	KS	66547
UMSCHEID	ROBERT W. UMSCHEID		515 KEARNEY ST.	MANHATTAN	KS	66502
VANCE	DAVID VANCE	JANET KLECAN	15243 LAKEVIEW CIR.	WAMEGO	KS	66547
VANSTORY	ALICE M. VANSTORY		5606 ELBO RIDGE DR.	MANHATTAN	KS	66502
VOTH	KYLE L. VOTH		2156 GRIFFITH TERR.	MANHATTAN	KS	66502
WALSH	ROGER M. & DIANE K. WALSH		15655 STONEYBRICK DR.	WAMEGO	KS	66547
WARD	ANDREA DAWN WARD		3727 MILLIKIN CT.	CLEVELAND HTS.	OH	44118-1512
WARREN	STEVEN & LINDA MARIE WARREN		5100 FLUSH RD.	ST. GEORGE	KS	66535
WEERS	JOHN B. JR. & BARBARA J. WEERS		11775 BOBS LN.	ST. GEORGE	KS	66535
WEST	TERRY L. & CHARISSE M. WEST		16155 CANNONBALL RD.	WAMEGO	KS	66547
WESTGATE	CONNIE L. WESTGATE		15680 STONEYBRICK DR.	WAMEGO	KS	66547
WHEARTY	ELIZABETH A. WHEARTY		19205 OLD FARM RD.	WAMEGO	KS	66547
WHITE	CHARLES R. WHITE TRUST; WHITE RANCH	JANET L. WHITE TR.	20975 OREGON TRAIL RD.	BELVUE	KS	66407
WILLIAM	DONNA B. WILLIAM		4240 HOPKINS CREEK RD.	ST. GEORGE	KS	66535
WILLYARD	HARRY WILLYARD	LORI L. PAGE-WILLYARD	5624 BAYERS HILL DR.	MANHATTAN	KS	66502
WILSON	JOANN W. WILSON TRUST		8410 JUNIETTA RD.	MANHATTAN	KS	66502
WOLFE	CURTIS J. & MARILYN A. WOLFE		15985 MANDY MEADOWS	WAMEGO	KS	66547
WOODRUFF	TIMOTHY C. & MARILYN R. WOODRUFF TRUSTS	THOMAS S. WOODRUFF	4850 FLINT ROCK RD.	WAMEGO	KS	66547
YEAGER	KENT F. & PATRICIA R. YEAGER		5614 BAYERS HILL DR.	MANHATTAN	KS	66502

BEFORE THE STATE CORPORATION COMMISSION

OF THE STATE OF KANSAS

DIRECT TESTIMONY

OF

KELLY B. HARRISON

WESTAR ENERGY

DOCKET NO. _______________

I. INTRODUCTION

Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.

A. Kelly B. Harrison, 818 South Kansas Avenue, Topeka, Kansas 66612.

Q. BY WHOM AND IN WHAT CAPACITY ARE YOU EMPLOYED?

A. Westar Energy, Inc. (Westar). I am Vice President, Transmission. I am responsible for transmission line and substation planning, engineering, construction, and maintenance.

Q. PLEASE DESCRIBE YOUR EDUCATIONAL BACKGROUND AND PROFESSIONAL EXPERIENCE.

A. I received a B.S. Degree in Electrical Engineering in 1981, a M.S. Degree in Engineering Management Science in 1985 and a M.B.A. in 1994, all from Wichita State University. Following my graduation in 1981, I began work at Kansas Gas and Electric Company (KG&E)

as an engineer in the System Planning department. I held various engineering positions until 1987 when I was promoted to Supervisor of Planning and Forecasting in the Rate department. I was promoted to Manager of Planning and Forecasting in 1988, and I remained in that position after the acquisition of KG&E by The Kansas Power and Light Company (now Westar) in March 1992. From March 1992 until October 1999, I held various positions in the Regulatory Affairs department. In October 1999, I became Senior Director, Restructuring and Rates. In 2001, I was named Executive Director, then Vice President, Regulatory in December 2001. In March 2006, I became Vice President, Transmission Operations and Environmental Services. I assumed my current responsibilities in August 2011.

Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?

A. I will provide an overview of the filing and will discuss the need for and benefits that will result from the proposed transmission project. I also describe the basics of the process used by Westar to determine the preferred route for the proposed line.

II. OVERVIEW OF FILING

Q. WHAT IS THE PURPOSE OF THIS FILING?

A. This application seeks Commission approval for Westar to site and construct a new transmission line to replace the existing 230 kV transmission line from Westar's Jeffrey Energy Center (JEC)

Substation, located northwest of St. Marys, to Westar's East Manhattan Substation located near Manhattan. The new transmission line will be engineered and constructed to 345 kV standards, but will continue to operate at 230 kV. At an undetermined date in the future another project is expected to be authorized by the SPP to convert this transmission line from 230 kV to 345 kV.

The filing substantiates the need for the line and details the extensive siting process that was used to select a preferred route. The filing includes testimony and exhibits that: 1) describe the preferred route for the line, 2) list all affected landowners whose land would be crossed by the preferred route or whose land lies within 1,000 feet of the centerline of the preferred route, 3) summarize the environmental characteristics of the areas studied for siting the line; and 4) explain the benefits of the proposed line to Kansas electric customers, electric customers in the region, and economic development within Kansas.

Q. IS THE LINE FOR WHICH WESTAR SEEKS SITING AUTHORITY INTEGRAL TO WESTAR'S PROVISION OF ELECTRIC SERVICE IN KANSAS?

A. Yes, in at least two important ways. First, Westar's witnesses demonstrate the benefits and enhanced reliability from this new line for Westar's retail and wholesale customers in Kansas, for other

Kansas electric utilities and their customers, and for the entire Southwest Power Pool (SPP) region.

Second, constructing this line is consistent with Westar's business plan of being a basic Kansas electric utility. Westar is capable of financing, engineering, constructing and maintaining this and other major new expansions of the transmission grid. Such investment opportunities in new transmission lines traversing our service territory are essential for Westar to succeed in its business strategy of modest growth and moderate returns.

Q. PLEASE DESCRIBE THE BENEFITS THAT WILL BE REALIZED AS A RESULT OF WESTAR'S COMPLETION OF THIS LINE.

A. Under certain contingencies, the existing 230 kV transmission line is overloaded and creates a restriction in the transmission system. This condition limits the ability to move electric power away from Jeffrey Energy Center and may cause Westar to purchase electric energy from other sources at higher costs. Along with providing a remedy for this issue, the new line will contribute to a stronger, more robust transmission grid, with Kansans and the entire region benefiting from increased reliability. Further, reconstruction of the JEC to East Manhattan line will provide for more efficient use of existing Westar generation resources and reduce line losses.

Q. HOW MUCH WILL IT COST TO CONSTRUCT THE NEW LINE?

A. We currently estimate that it will cost approximately $58.3 million to construct Westar's portion of the line and the required substation upgrades. This is an estimate that could change after we have an approved route and as we move toward final design of the line. The cost to construct the line will be affected by numerous factors. Among the items that will affect construction costs are changes to the preferred route; changes in prices of metals such as copper, nickel, steel, and aluminum that affect the cost of poles, wire, and other components of the line; changes in labor costs as the demand for workers with the necessary skills to construct transmission facilities increases; structure design; and the actual cost to acquire necessary rights-of-way.

Q. HOW WILL THE COST OF THE LINE BE RECOVERED?

A. Because the line has been approved by the SPP as a base plan project, all of the costs associated with the project will be allocated regionally across the SPP's eight state footprint on a load-ratio share basis under the highway-byway allocation method. Westar witness Julie Lux will further discuss how the cost of the line will be recovered.

Q. WHEN DOES WESTAR EXPECT THE LINE TO BE IN SERVICE?

A. We expect the line to be completed and in service in June of 2017.

Q. WILL WESTAR PRESENT OTHER TESTIMONY IN THIS CASE?

A. In addition to my testimony, Westar is submitting testimony from the following witnesses:

> Julie Lux, Westar Energy - Director of Regulatory Compliance – discussing the method through which Westar's costs for building the proposed line will be recovered and charged to customers; and

> Kristi Wise, Burns and McDonnell Engineering - Project Manager– discussing the preferred route for the line and the siting process that was used to select the preferred route.

Westar understands that the SPP will be submitting testimony in support of Westar's application within a few days of Westar's filing with the Commission. In that testimony, SPP will present the results of the benefit-cost analysis it conducted when deciding whether to authorize construction of the project for which Westar is requesting siting approval.

III. DESCRIPTION OF THE PROPOSED PROJECT

Q. DESCRIBE THE PROJECT AND THE PREFERRED ROUTE PROPOSED BY WESTAR IN THIS DOCKET.

A. This project involves replacing the existing single circuit 230 kV line from JEC to East Manhattan. The new line will be a single circuit line engineered and built to 345 kV standards with larger bundled conductor. The new line will continue to be operated at 230 kV, but the larger bundled conductor will eliminate the restrictions identified by the SPP modeling. The new line will connect to Westar's JEC Substation and Westar's East Manhattan Substation. Westar's project will also involve upgrading components in both substations to a minimum emergency rating of 2,000 amps. Figure 1 is a map depicting the location of the existing 230 kV line that we are replacing.

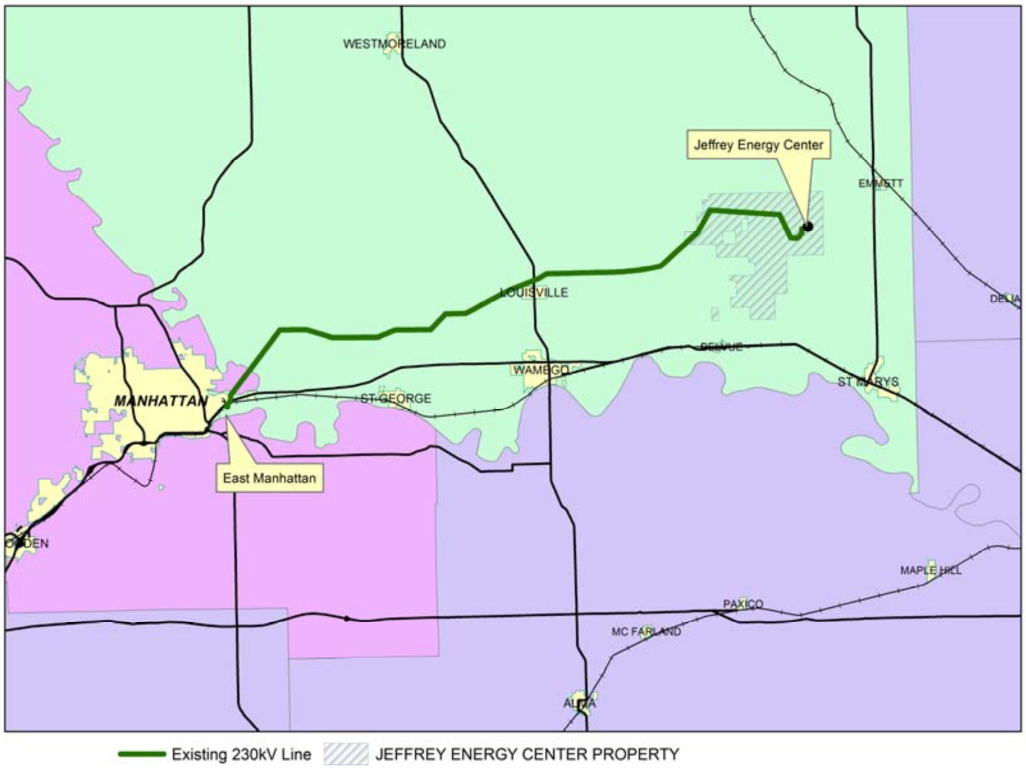


Figure 1

The final preferred route selected by Westar runs near the existing transmission line through Riley and Pottawatomie Counties and is approximately 25.6 miles long. An overview of the final preferred route is shown below as Figure 2. Detailed maps of the final preferred route that Westar is submitting for approval are shown as Exhibit KBH-1, Sheets 1 through 22.

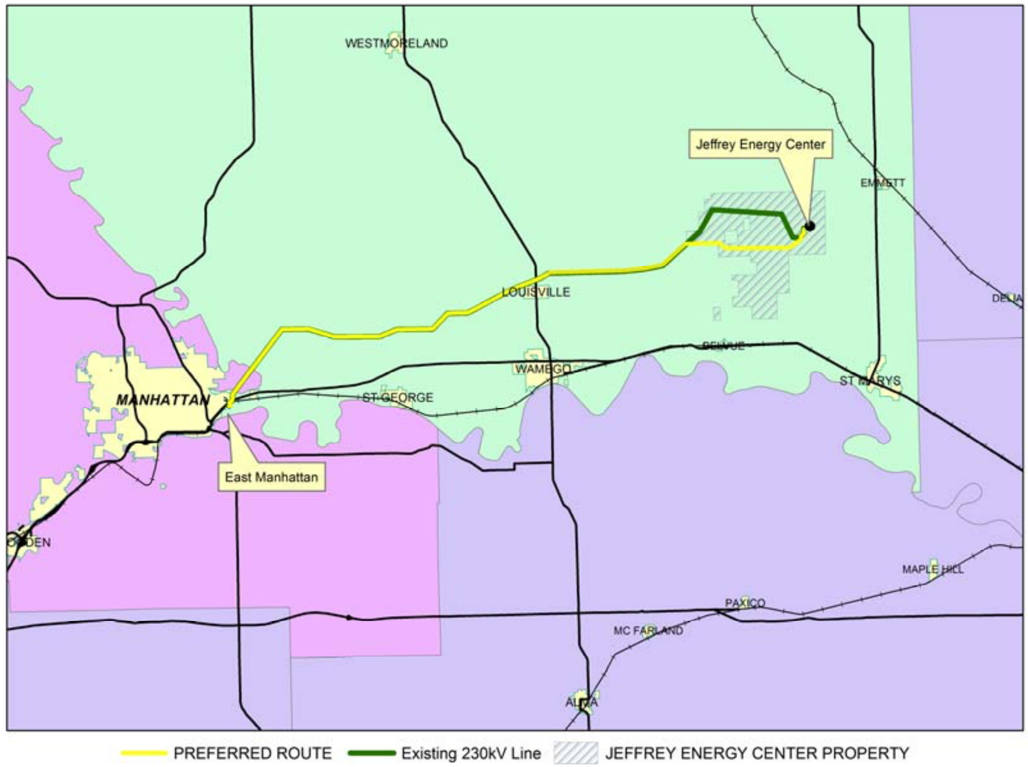


Figure 2

Q. PLEASE DESCRIBE HOW THE JEC to EAST MANHATTEN PROJECT WAS IDENTIFIED AS A TRANSMISSION PROJECT.

A. The Integrated Transmission Plan (ITP) is SPP's approach to planning transmission needed to maintain reliability, provide economic benefits, and achieve public policy goals to the SPP region in both the near and long-term. The ITP enables SPP and its stakeholders to facilitate the development of a robust transmission grid that provides regional customers improved access to the SPP region's diverse resources. Development of the ITP is driven by planning principles developed by the Synergistic Planning Project Team (SPPT), a team that I served on, including the need to develop a transmission backbone large enough in both scale and geography to provide flexibility to meet SPP’s future needs.

The first phase of the ITP study process was completed with the SPP Board of Directors’ acceptance of the 2010 ITP 20-year (ITP20) Report on January 25, 2011. A group of Network Upgrade projects, including the JEC to East Manhattan project, was subsequently approved by the SPP Board of Directors as part of 2014 Integrated Transmission Planning Near-Term (ITPNT) Assessment on January 28, 2014.

The ITP Near-Term Assessment is performed annually and assesses system upgrades, at all applicable voltage levels required in the near term planning horizon to address reliability. The ITP Near-Term assessment used two scenario models built across multiple years and seasons to evaluate power flows across the grid to account for various system conditions across the near-term horizon. The goals of the ITP Near-Term are to:

a) Resolve potential reliability criteria violations;

b) Improving access to markets;

d) Improving interconnections with SPP’s neighbors

e) Meeting expected load growth demands

f) Facilitating or responding to expected facility retirements

The SPP ITP Near-Term assessment identified the reliability need to replace the existing 230 kV JEC to East Manhattan transmission line due to overloading conditions.

Q. DID WESTAR PERFORM A STUDY OF THE TRANSMISSION SYSTEM TO VERIFY THE SPP STUDY RESULTS?

A. Westar did not perform any additional studies outside of the SPP ITP Near-Term Assessment to address the loading on the 230 kV JEC to East Manhattan transmission line. However, Westar and other transmission entities directly participate in the ITP study process by:

a) Providing and reviewing model data;
b) Confirming results;
c) Providing feedback and solutions for potential violations.

Q. DID WESTAR PROVIDE A SOLUTION TO SPP TO REMEDY THE OVERLOADING CONDITION OF THE EXISTING 230 kV TRANSMISSION LINE?

A. Yes. To address the overload of the existing East Manhattan to Jeffrey Energy Center 230 kV line, Westar proposed rebuilding the 230 kV line from East Manhattan to Jeffrey Energy Center with a new transmission line with increased capacity. Westar proposed that the new transmission line utilize larger bundled conductor and also that the line be engineered and constructed to 345 kV standards. The line will be operated at 230 kV until a later point in the future. The benefits of constructing the line to 345 kV standards, even though it will continue to be operated at 230 kV for a period of time, include the ability to more easily convert the line to 345 kV at a later date and possibly to expand the line from Manhattan to the Elm Creek substation or to Nebraska without having to rebuild the line at 345 kV at that time. Additionally, there is minimal incremental cost difference between construction to 230 kV and 345 kV standards.

Q. DOES WESTAR AGREE WITH THE SPP STUDY THAT THE PROJECT IS NEEDED AND WILL ENHANCE THE RELIABLITY OF THE TRANSMISSION SYSTEM?

A. Yes, Westar agrees with the SPP ITP Near-Term study results that the 230 kV JEC to East Manhattan transmission line will need to be replaced to ensure continued reliability of the transmission system.

The North American Electric Reliability Corporation (NERC) develops and enforces Reliability Standards to address events and identifiable risks, thereby improving the reliability of the bulk power system. Westar is required to demonstrate through a valid assessment, in this case the 2014 ITPNT Assessment, that its portion of the interconnected transmission system is planned such that the Network can be operated to supply projected customer demands and projected Firm (non-recallable reserved) Transmission Services, at all demand levels over the range of forecast system demands, under the contingency conditions as defined in Category B of Table I of TPL-002-2b.

If we do not rebuild this line, there is a risk that we will have to decrease the output of Jeffrey Energy Center to reduce loading on this transmission line. The existing condition on the line limits the ability to move electric power away from Jeffrey Energy Center and may cause Westar to purchase electric energy from other sources at higher costs.

Q. DID SPP AGREE WITH WESTAR'S PROPOSED SOLUTION TO REBUILD THE EXISTING 230 kV LINE TO REMEDY THE OVERLOADING CONDITION?

A. Yes. SPP, as the Planning Coordinator, has the obligation to validate and make sure the best solution is ultimately selected. SPP has the right to propose alternative lower cost projects while keeping in mind long-term strategic solutions. In the ITPNT, SPP identified a potential overload in 2017 on the line which will require a solution to maintain compliance with NERC Reliability Standards. Westar submitted the project as a potential solution. After SPP testing, SPP agreed with Westar's proposal and issued a Notice-To-Construct to Westar. All the background information on the process is documented in the 2014 Integrated Transmission Planning Near-Term Assessment posted on SPP's website.

Q. HAS SPP ISSUED A NOTIFICATION TO CONSTRUCT (NTC) FOR WESTAR'S PROPOSED PROJECT?

A. Yes. On February 19, 2014, SPP issued a NTC for this project to Westar. The NTC was conditioned on not ordering materials or beginning construction until the submittal to SPP of a refined project cost estimate (CPE). The refined CPE was required to have a variance bandwidth of ± 20% not exceeding the Study Estimate variance bandwidth of ± 30%. Westar could only proceed under the NTC if the refined CPE was within this variance bandwidth or if the SPP Board of Directors reevaluated the project if the CPE exceeded the Study Estimate variance bandwidth. The NTCs identified replacing the existing 230 kV line with a new line engineering and constructed to 345 kV standards but operated at 230 kV voltage between Westar's JEC Substation and Westar's East Manhattan Substation. A copy of this initial NTC received by Westar is attached as Exhibit KBH-2, Sheets 1 through 4 with our response accepting the NTC attached as Exhibit KBH-2, Sheet 5 through 7.

Q. HOW DID WESTAR ARRIVE AT THE REFINED PROJECT COST ESTIMATE?

A. In order to refine the project cost estimate, Westar chose to proceed with a routing study to determine potential routes, thus reducing the risks associated with routing uncertainty. Westar engaged Burns & McDonnell to perform this study. We used the potential routes to produce our CPE for the project.

Q. WAS WESTAR'S CPE WITHIN THE SPP ALLOWED VARIANCE BANDWIDTH TO RELEASE THIS PROJECT FOR CONSTRUCTION?

A. Yes. Westar's CPE was within the variance required by SPP.

Q. HAS SPP REMOVED THE CONDITIONS PLACED ON THE NTC?

A. Yes. SPP removed the conditions placed on the NTC by re-issuing the NTC on September 2, 2014, a copy of which is attached as Exhibit KBH-2, Sheets 8 through 11. Westar's response accepting the NTC is attached as Exhibit KBH-2, Sheets 12 through 14.

IV. ROUTING STUDY

Q. WHY DID WESTAR DECIDE TO PERFORM A ROUTING STUDY SINCE THIS PROJECT INVOLVES REPLACING AN EXISTING TRANSMISSION LINE?

A. Westar reviewed the NTC requirements, the easements for the existing 230 kV line, our transmission system operating parameters, and the current land uses near the existing 230 kV line. We identified the following challenges to replacing the line on the existing right of way:

a) Existing 230 kV line is on easements that are only 100 feet wide. A typical 345 kV line requires a 150 foot easement.

b) Approximately 16 miles of the east end of the 230 kV line is directly adjacent to a 345 kV transmission line that extends from Salina to JEC. The 230 kV line and the 345 kV line are approximately 125 feet apart centerline to centerline.

c) The land use on the western end of the existing line has experienced a considerable residential and commercial development expansion directly next to the existing transmission line.

d) Modeling of the transmission system indicates that we cannot take the existing 230 kV transmission line out of service during the summer season from June to mid-September due to system needs. This limits the construction period for the project to replace the line if it is built on the existing right of way.

e) If the existing 230 kV line is taken out of service during the winter, spring and fall period, it creates additional price risk to customers. If any other transmission line connected to the JEC substation has an issue during the outage of the 230 kV line, the output of JEC will need to be reduced (de-rated). In this situation, Westar will be required to purchase replacement power from another source. On an average market day, this replacement power costs more than power generated at JEC. This additional cost is passed along to our customers.

All of the challenges noted above can be eliminated if the new line is constructed on a new alignment while the existing line continues to operate. We also acknowledged that many things have changed since the existing 230 kV line was built in the early 1980's. Today we have many more permitting requirements, environmental concerns, and different land uses. After much deliberation, we concluded that we needed to perform a thorough siting study to determine if an alternate route could be identified. We also wanted to engage the public in the process to get feedback on other potential routes.

Q. PLEASE DESCRIBE THE PROCESS USED TO PERFORM THE ROUTING STUDY AND SELECT THE PREFERRED ROUTE FOR THE LINE.

A. The first step was to assemble an internal project team that consists of Westar employees from Real Estate Services, Transmission Planning, Transmission Operations, Transmission and Substation Engineering, Transmission & Substation Construction, Conservation, Corporate Communications, Government Affairs, Regulatory, and Legal. With a goal of minimizing impacts to landowners, residents, and the environment, we engaged the consulting firm of Burns & McDonnell (BMcD) to assist us with the transmission line siting process. BMcD's Ms. Wise led the siting process and the attached testimony describes the routing study process used to determine the preferred route.

Q. WERE ANY ADJUSTMENTS MADE TO THE BURNS & McDONNELL PREFERRED ROUTE IDENTIFIED IN THE SITING STUDY?

A. Yes. After we identified the preferred route through the Burns & McDonnell siting study process, we reviewed in detail some of the areas that we felt we could improve the alignment of the transmission line. Specifically, there were many areas between the Louisville area and the East Manhattan substation that have housing and businesses on both side of the preferred routes. In these areas we developed proposed routes that separated from the existing line and were routed around the perimeter of the developments. In some cases this caused the development to be surrounded by high voltage transmission lines and added several heavy angles to the transmission line. We also reviewed plans provided by landowners of several platted subdivisions near the east end of the transmission line. We examined potential solutions to rebuilding the line in these constricted areas and determined that it is feasible, in limited areas, to remove the existing line and rebuild the new line on essentially the same alignment. In these limited areas, we plan to perform the construction work during scheduled JEC plant outages and use alternate construction techniques to work under the existing 230 kV line. After careful consideration of all the factors, we believe it is best to utilize the existing right-of-way and place the majority of the new line on the same right-of-way as the existing 230 kV line in the area from the Louisville cemetery to the East Manhattan substation. Although we are utilizing the existing right-of-way in this area, we will require some additional easements nominally between 25 and 50 feet wide on each side of the existing easement. We believe this decision to utilize the existing right-of-way also reflects the wishes of the landowners in these areas and improves the preferred route.

Q. WERE ANY OTHER ADJUSTMENTS MADE TO THE PREFERRED ROUTE IDENTIFIED IN THE BURNS & MC DONNELL SITING STUDY?

A. Yes. At the east end of the preferred route, the line is routed on property owned by Westar Energy near JEC for approximately 6 miles. The alignment of the preferred route was modified on Westar Energy property to avoid newly permitted landfill areas that are directly under the existing 230 kV line. These changes reduced the overall line mileage and the full width of the right-of-way will be on property owned by Westar Energy. Westar also requests that the KCC allow additional flexibility to revise the route on JEC property in the future. We have not fully identified the below ground utilities at this time and our plans for permitted landfills on JEC property continue to develop. It may be necessary to adjust the alignment once these items have been finalized.

Q. PREVIOUSLY YOU LISTED MANY CHALLENGES TO REBUILDING THE LINE ON THE EXISTING RIGHT-OF-WAY, HOW WERE THESE CHALLENGES ADRESSED FOR THE PREFERRED ROUTE?

A. Westar was able to develop a plan to construct a portion of the preferred route on the existing right-of-way during scheduled JEC outages that occur outside of the summer season. Westar also believes that we can perform some of the work, such as installing drilled piers, hauling structures, and framing structures under the de-energized, but not dismantled, existing line. Should we have an unplanned event on another transmission line connected to the JEC substation, we have the flexibility to stop the construction activities, move crews and equipment out from under the existing 230 kV line and re-energize the line.

Q. WHAT OBJECTIVES DID WESTAR PURSUE IN CHOOSING POTENTIAL ROUTES FOR THE PROPOSED TRANSMISSION LINE?

A. The objective of the routing analysis was to identify economically feasible routes that connect JEC and the East Manhattan Substation. Routes were developed that offered the most benefits in terms of providing reliable electric power transmission and also minimized adverse impacts to the social and natural environment. The major concerns during the development of potential routes were to:

1) Maximize the distance of the line from existing homes, businesses and public buildings,

2) Maintain reliable electric service by developing realistic and feasible routes,

3) Minimize overall environmental impacts by maximizing the use of existing road and transmission line rights-of-way,

4) Minimize, to the extent practicable, diagonal routes across tilled agricultural fields,

5) Avoid impacts to private airstrips in the project area,

6) Avoid impacts to any existing center-pivot irrigation system by locating the lines along the tangent of the system's arc,

7) Avoid crossing directly over oil wells, water wells and oil storage tanks, and

8) Minimize potential impacts to wetlands and other environmentally sensitive areas, threatened and endangered species and lesser prairie chicken habitat.

Q. WAS WESTAR ABLE TO IDENTIFY A ROUTE THAT AVOIDED ALL IMPACTS?

A. No. The routing study comprised 55 individual segments that could be combined to form 5,304 alternate routes. Even though we studied numerous alternate routes, it was not possible to find a route that avoided all impacts. The routing study was successful in identifying the routes that had least amount of impact and was instrumental in selecting the preferred route that we are seeking to be approved.

Q. HOW WERE LANDOWNERS INFORMED OF WESTAR'S INTENT TO SOLICITE FEEDBACK REGARDING POTENTIAL ROUTES REGARDING CONSTRUCIOTN OF THE NEW LINE?

A. Once the potential routes were finalized, we used property ownership data from each county to identify the landowners within 1000 feet of the centerline of each of the potential routes. The potential routes were located in Pottawatomie and Riley counties in north-east Kansas. Burns & McDonnell obtained digital property ownership data for all property owners who own property located within 1,000 feet of the proposed routes from Pottawatomie and Riley counties.

Using information gathered in this manner, we sent a letter to each landowner to advise him/her that Westar was proposing to construct a new high-voltage line near his/her property and inviting each of them to the open houses. We identified the dates, times and locations of the December open houses in the letter. Copies of the form invitation letter are shown in Exhibit KBH-3, Sheets 1 through 3.

The potential routes under consideration were shown to the public by Westar at two open house meetings in early December 2014 in order to gather additional input from area landowners. Open houses were held in the Wamego Senior Center on December 3 and 4, 2014. At each open house, Westar representatives provided information on the purpose and need for the project and potential routes (shown on aerial photographs and maps of the project area). Burns & McDonnell attended the open houses using five computer stations with operators that allowed landowners to zoom in to their respective properties, measure distances to potential routes, and provide feedback that was captured electronically in real time. We also provided information on the design and construction of the project, typical land requirements for the new line, and the process Westar will use to obtain easements. During these public meetings, Westar and Burns & McDonnell made notations to the maps and photos with information provided by the area landowners for consideration during the route selection process.

At the open houses, Westar representatives also handed out project fact sheets and questionnaires included as Exhibit KBH-3, Sheets 4 through 8. Participants were encouraged to complete the questionnaires and turn them in before leaving the open house or to mail them in at a later date. Some people who were unable to attend the open houses later called Westar and requested information or provided comments. These individuals were provided information as requested. A total of 209 responses were received from those who attended the open houses or requested individual information. A detailed summary of the questionnaire results is presented as part Ms. Wise's testimony.

Q. HOW WIDE WILL THE RIGHT-OF-WAY BE FOR THE PROPOSED LINE?

A. The nominal width of the right-of-way will be 150 feet. However, the right-of-way could be more or less in specific areas depending on span length, conductor sag and wind characteristics. The final right-of-way width will be determined during detailed design.

Q. WILL LANDOWNERS BE ABLE TO USE THE LAND ON WHICH THE LINE WILL BE CONSTRUCTED?

A. Yes. Landowners will be able to use the line right-of-way for any agricultural purpose that does not interfere with use of the line at its full rated capacity. However, landowners will not be permitted to conduct business in the right-of-way that would be hazardous to the landowner, the line, or the general public (such as a pipe storage yard or tree farm). No foreign structures or buildings will be permitted in any part of the right-of-way. Trees and brush in the right-of-way will be trimmed or removed. Herbicides will be used to control the re-growth of woody vegetation in the right-of-way except in the case of certified organic farms or similar situations.

Q. WILL WESTAR OBTAIN EASEMENTS FOR THE RIGHT-OF-WAY ON WHICH THE LINE WILL BE CONSTRUCTED?

A. Yes. Easements will be obtained from landowners prior to construction of the proposed line. Landowners will also be compensated for all damages including crop losses that are directly attributable to construction of the proposed line.

Q. HAS WESTAR TAKEN STEPS TO MINIMIZE EXPOSURE TO ELECTROMAGNETIC FIELDS?

A. Yes. Westar took the electromagnetic field produced by operation of the line into consideration when establishing its route siting criteria. Westar does not consider electromagnetic fields to be a health threat based on published information. However, Westar has adopted a prudent avoidance approach to the siting of all electric facilities. This approach is characterized by the siting of transmission facilities in a manner that minimizes exposure to electromagnetic fields. A minimum horizontal clearance distance of 50 feet from the closest phase of the line to existing dwellings will be maintained wherever possible.

Q. HOW WILL WESTAR MITIGATE THE EFFECT OF THE ELECTRIC AND MAGNETIC FIELDS PRODUCED BY THE PROPOSED LINE?

A. Non-electric wire fence within 150 feet of the center of the line right-of-way will be grounded at intervals to limit the electromagnetically induced level of static charges to a safe level. Wire fences that cross the line route will be grounded at both edges of the right-of-way. Electric fences will be grounded where necessary with the addition of a 60 Hz series filter at each grounding location. Permanently installed metallic objects within 150 feet of the outside phase conductor of the line will be grounded. Conductor minimum ground clearance will be chosen to limit induced voltage in ungrounded metallic objects (such as a vehicle parked near the line) to a value that keeps induced current to less than 5 milli-amperes.

Q. PLEASE DESCRIBE WHAT WESTAR HAS DONE TO MINIMIZE THE ENVIRONMENTAL IMPACT OF THE LINE?

A. Westar has a stated objective to minimize adverse social and environmental impacts of the line. To accomplish this objective, Westar avoided all major environmental constraints and utilized criteria to select the line’s route that by design prevent or minimize social and environmental impacts. Westar has followed and will continue to adhere to the recommendations given by state and federal agencies for procedures that protect the biological, cultural, and historical resources for the areas traversed by the line.

V. TRANSMISSION LINE AND SUBSTATION DESIGN

Q. HOW WILL THE NEW 345 KV TRANSMISSION LINE BE DESIGNED?

A. Detailed design work for the proposed line has not yet been done, but we can describe designs that are typical for a line of this type. The proposed line will be constructed using steel tubular structures in either a single pole or H-frame configuration. The structures would be spaced approximately 600 to 1200 feet apart. Tangent structures will either be directly embedded using a crushed rock backfill or places on concrete pier foundations, depending on the soil conditions encountered. The minimum ground clearance for the line will conform to 345 kV circuit standards required by the National Electric Safety Code. Drawings of typical H-frame and single pole structures are provided in Exhibit KBH-4, Sheets 1 through 5. The height of these structures will vary depending on span length, required clearances, and local terrain, but will typically range between 80 and 160 feet.

The proposed line will be constructed using 1590 KCM-ACSR 45/7 (Code Name “Lapwing”), aluminum, steel-reinforced conductors. This conductor is composed of 45 strands of aluminum wrapped around 7 steel strands. This line will utilize a two-conductor bundle for each of the three phases. The diameter of each conductor comprising the two-conductor bundle will be 1.502 inches. The two conductors in each bundle will be approximately 18 inches apart and will be arranged in a horizontal bundle. In a conductor of this type, the aluminum strands carry the load current; the mechanical strength to support the conductors is provided by the steel core. Non-ceramic suspension insulators will be used to suspend the bundled phase conductors.

The line will be protected from lightning by two overhead ground wires strung at the uppermost extremity of the supporting structures. One shield wire will be a steel cable and one will be comprised of ten strands of aluminum-coated steel (alumoweld) wire wrapped around a centrally located aluminum alloy pipe that contains a number of optical fibers. The optical fibers will be used as a communications medium for line protective relaying and for internal communications.

Q. PLEASE DESCRIBE THE DESIGN OF THE SUBSTATION EQUIPMENT FOR THIS PROJECT.

A. At both the JEC Substation and the East Manhattan Substation the terminal equipment will be upgraded to carry a minimum emergency rating of 2,000 amps. We do not anticipate any major substation expansion work since the new line will continue to be operated at 230 kV on the same terminals. We will need to remove the wave traps and upgrade the equipment to utilize fiber optic protection and control systems along with replacing the breaker control panels.

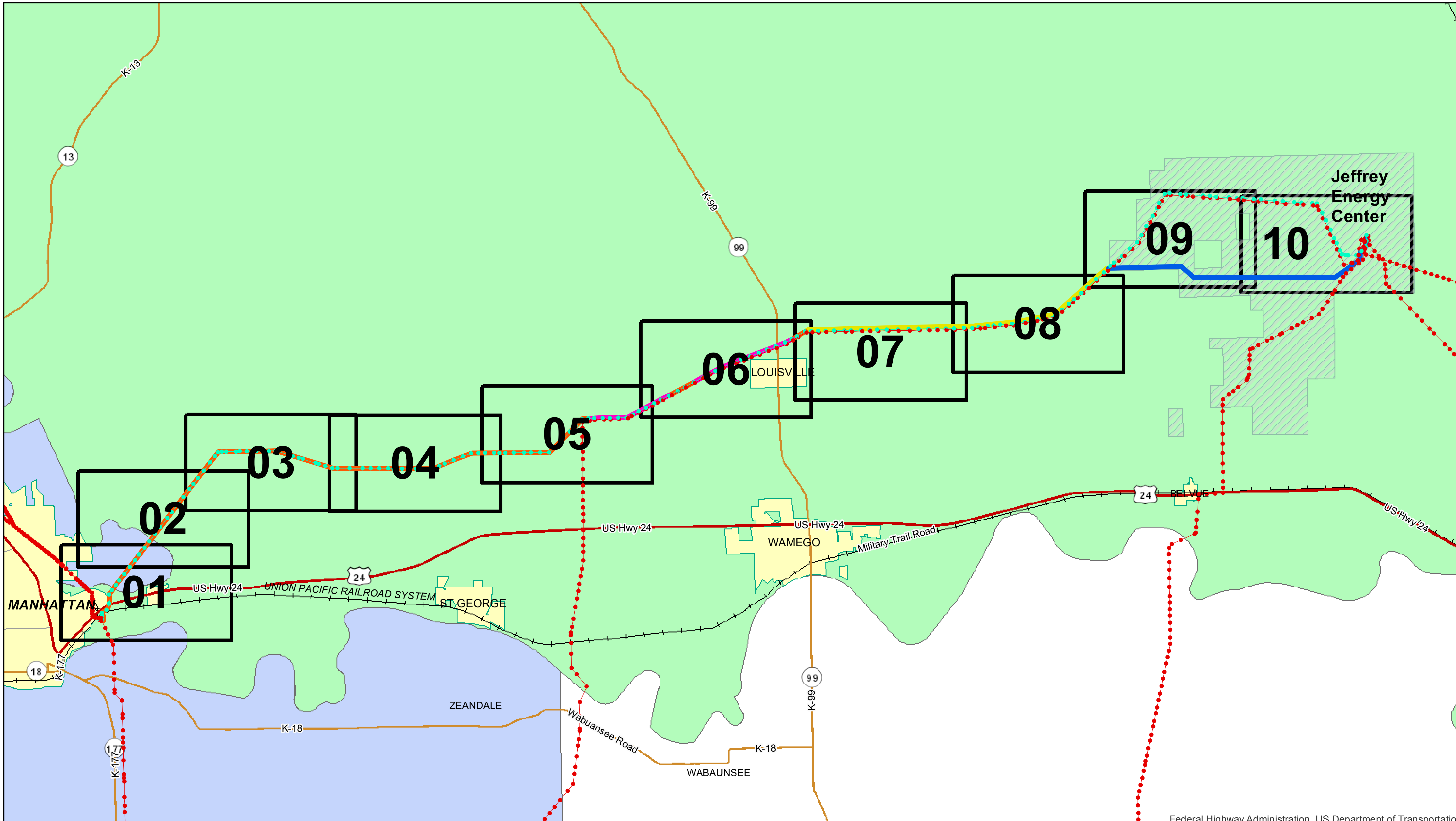
VI. CONCLUSION

Q. DO YOU HAVE ANY CONCLUDING COMMENTS?

A. Yes. The Commission should grant Westar a siting permit for the proposed line. Westar's analysis demonstrates that: 1) the line will provide substantial economic benefits to Kansas electric customers and the SPP region and will support economic development in Kansas; 2) the SPP has authorized construction of the line; and 3) the siting process Westar used was reasonable and appropriate.

Q. THANK YOU.

Exhibit KBH-1



Westar Preferred Route Submitted for KCC Approval

- ON EXISTING CL
- OFFSET APPR 50FT FROM EXIST CL
- OFFSET APPR 150 FT ON NEW ROW
- NEW ROW ON WESTAR JEC PROP

Existing Transmission Lines

- Existing Transmission
- Existing 230kV Being Replaced

WESTAR/JEC PROPERTY

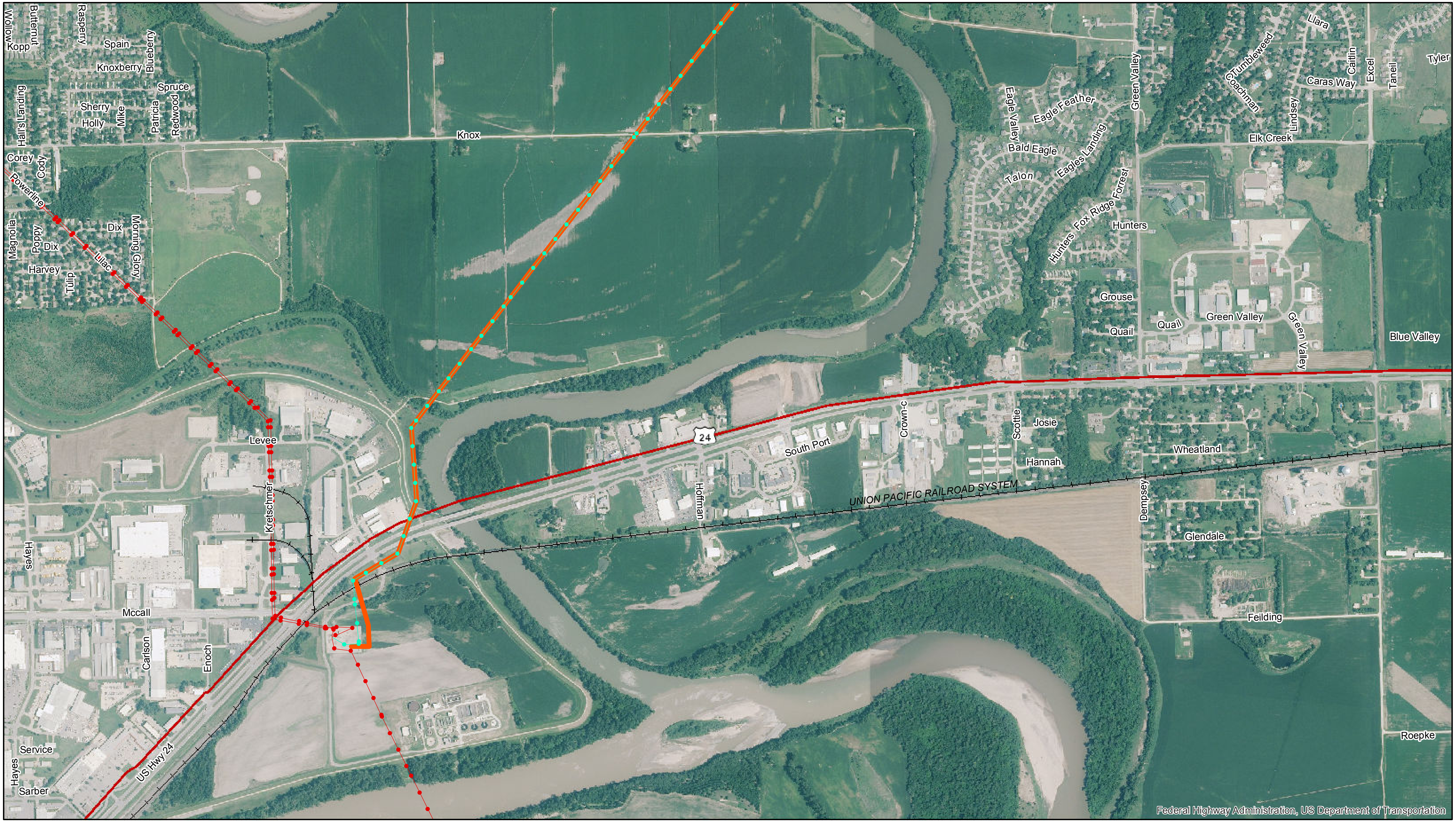
0 8,500 17,000 Feet

N W E S

Date: 2-16-15

Sheet No. 1

Exhibit KBH-1



Westar Preferred Route Submitted for KCC Approval	
ON EXISTING CL	OFFSET APPR 150 FT ON NEW ROW
OFFSET APPR 50FT FROM EXIST CL	NEW ROW ON WESTAR JEC PROP

Existing Transmission Lines

- Existing Transmission
- Existing 230kV Being Replaced

WESTAR/JEC PROPERTY

0 1,000 2,000 Feet

N W E S

Date: 2-16-15

Sheet No. 2

Exhibit KBH-1

Westar Preferred Route Submitted for KCC Approval

- ON EXISTING CL
- OFFSET APPR 50FT FROM EXIST CL
- OFFSET APPR 150 FT ON NEW ROW
- NEW ROW ON WESTAR JEC PROP

Existing Transmission Lines

- Existing Transmission
- Existing 230kV Being Replaced

WESTAR/JEC PROPERTY

0 1,000 2,000 Feet

N W E S

Date: 2-16-15

Sheet No. 3

Exhibit KBH-1

Westar Preferred Route Submitted for KCC Approval

- ON EXISTING CL
- OFFSET APPR 50FT FROM EXIST CL
- OFFSET APPR 150 FT ON NEW ROW
- NEW ROW ON WESTAR JEC PROP

Existing Transmission Lines

- Existing Transmission
- Existing 230kV Being Replaced

WESTAR/JEC PROPERTY

0 1,000 2,000 Feet

N W E S

Date: 2-16-15

Sheet No. 4

Exhibit KBH-1

Westar Preferred Route Submitted for KCC Approval

- ON EXISTING CL
- OFFSET APPR 50FT FROM EXIST CL
- OFFSET APPR 150 FT ON NEW ROW
- NEW ROW ON WESTAR JEC PROP

Existing Transmission Lines

- Existing Transmission
- Existing 230kV Being Replaced

WESTAR/JEC PROPERTY

0 1,000 2,000 Feet

N W E S

Date: 2-16-15

Sheet No. 5

Exhibit KBH-1

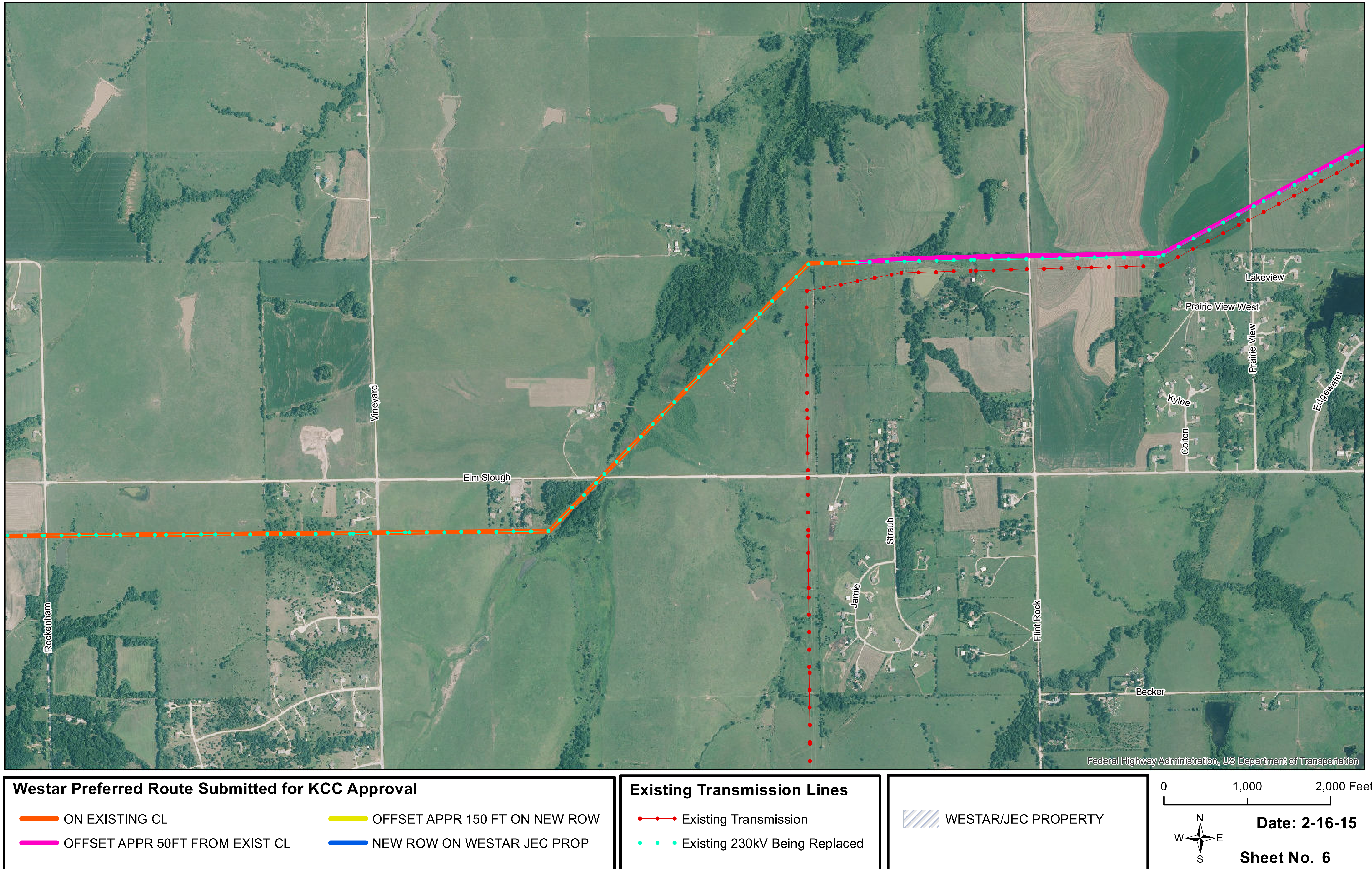
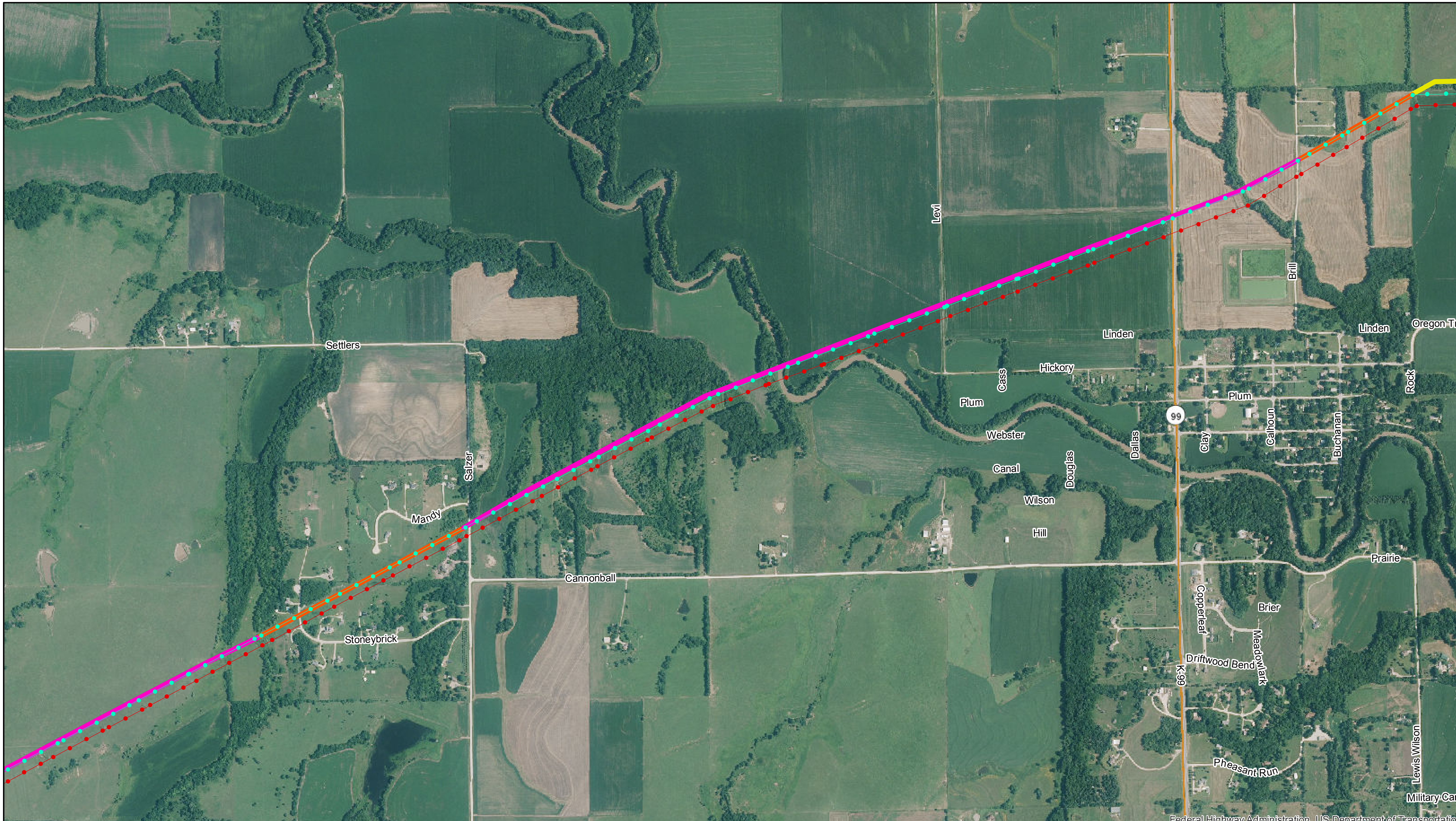


Exhibit KBH-1



Westar Preferred Route Submitted for KCC Approval

- ON EXISTING CL
- OFFSET APPR 50FT FROM EXIST CL
- OFFSET APPR 150 FT ON NEW ROW
- NEW ROW ON WESTAR JEC PROP

Existing Transmission Lines

- Existing Transmission
- Existing 230kV Being Replaced

WESTAR/JEC PROPERTY

0 1,000 2,000 Feet

N W E S

Date: 2-16-15

Sheet No. 7

Exhibit KBH-1

Westar Preferred Route Submitted for KCC Approval

- ON EXISTING CL
- OFFSET APPR 50FT FROM EXIST CL
- OFFSET APPR 150 FT ON NEW ROW
- NEW ROW ON WESTAR JEC PROP

Existing Transmission Lines

- Existing Transmission
- Existing 230kV Being Replaced

- WESTAR/JEC PROPERTY

0 1,000 2,000 Feet

N W E S

Date: 2-16-15

Sheet No. 8

Exhibit KBH-1

Westar Preferred Route Submitted for KCC Approval

- ON EXISTING CL
- OFFSET APPR 50FT FROM EXIST CL
- OFFSET APPR 150 FT ON NEW ROW
- NEW ROW ON WESTAR JEC PROP

Existing Transmission Lines

- Existing Transmission
- Existing 230kV Being Replaced

WESTAR/JEC PROPERTY

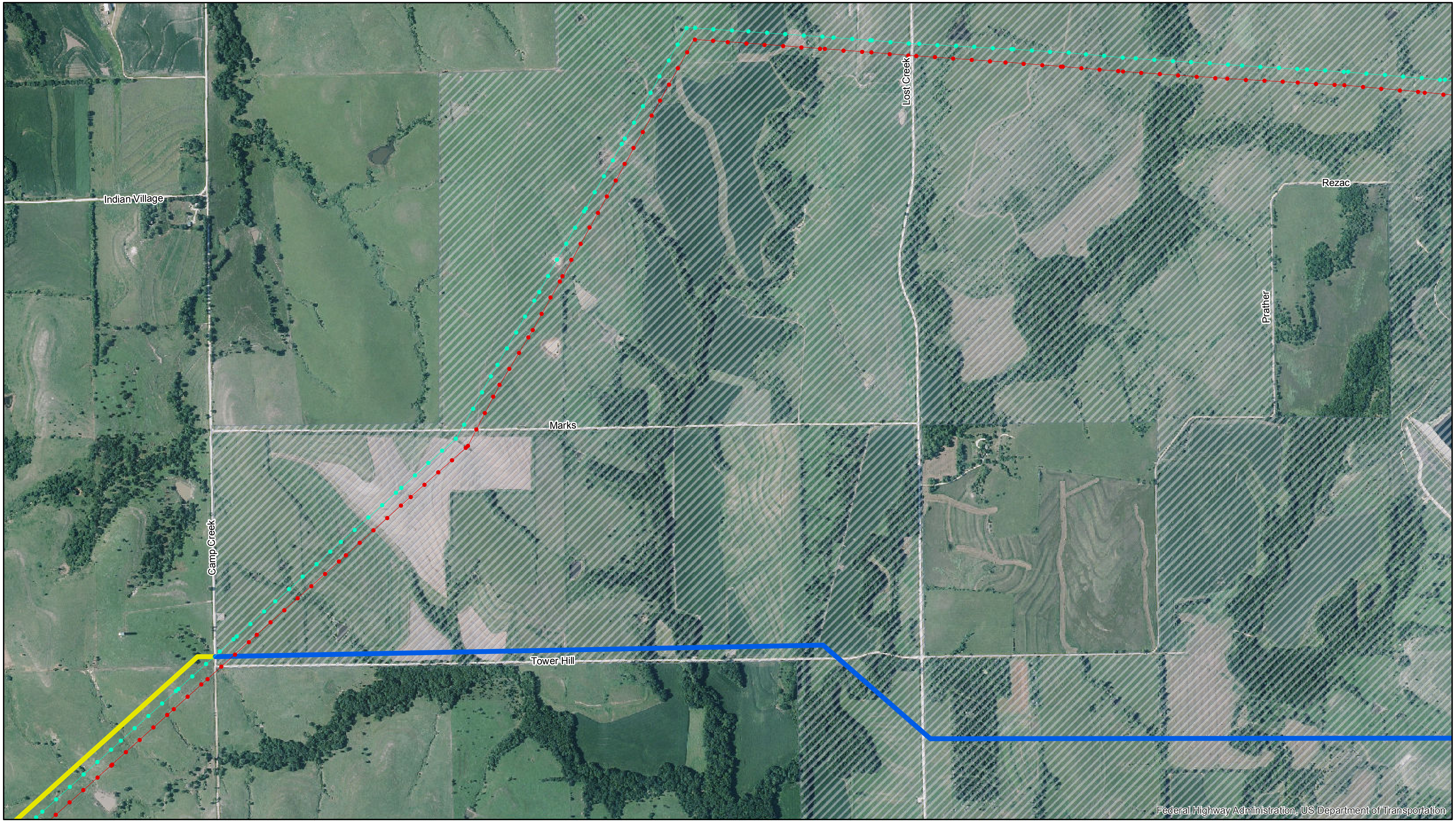
0 1,000 2,000 Feet

N W E S

Date: 2-16-15

Sheet No. 9

Exhibit KBH-1



Westar Preferred Route Submitted for KCC Approval

- ON EXISTING CL
- OFFSET APPR 50FT FROM EXIST CL
- OFFSET APPR 150 FT ON NEW ROW
- NEW ROW ON WESTAR JEC PROP

Existing Transmission Lines

- Existing Transmission
- Existing 230kV Being Replaced

WESTAR/JEC PROPERTY

0 1,000 2,000 Feet

N W E S

Date: 2-16-15

Sheet No. 10

Exhibit KBH-1

Westar Preferred Route Submitted for KCC Approval

- ON EXISTING CL
- OFFSET APPR 50FT FROM EXIST CL
- OFFSET APPR 150 FT ON NEW ROW
- NEW ROW ON WESTAR JEC PROP

Existing Transmission Lines

- Existing Transmission
- Existing 230kV Being Replaced

WESTAR/JEC PROPERTY

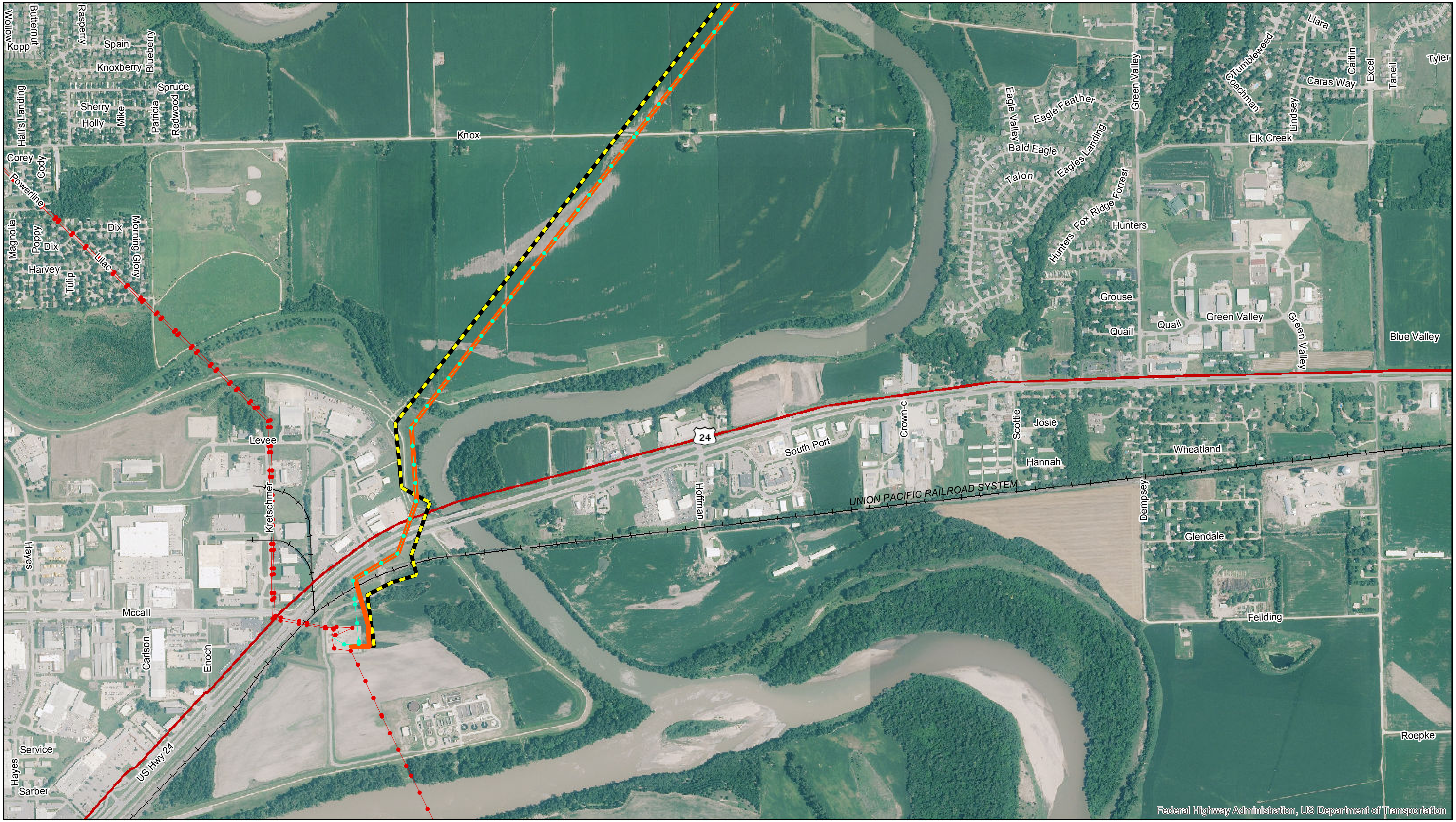
0 1,000 2,000 Feet

N W E S

Date: 2-16-15

Sheet No. 11

Exhibit KBH-1



Westar Preferred Route Submitted for KCC Approval

- ON EXISTING CL
- OFFSET APPR 50FT FROM EXIST CL
- OFFSET APPR 150 FT ON NEW ROW
- NEW ROW ON WESTAR JEC PROP

Existing Transmission Lines

- Existing Transmission
- Existing 230kV Being Replaced

BMcD Study Preferred Route

- BMcD Study Preferred Route
- WESTAR/JEC PROPERTY

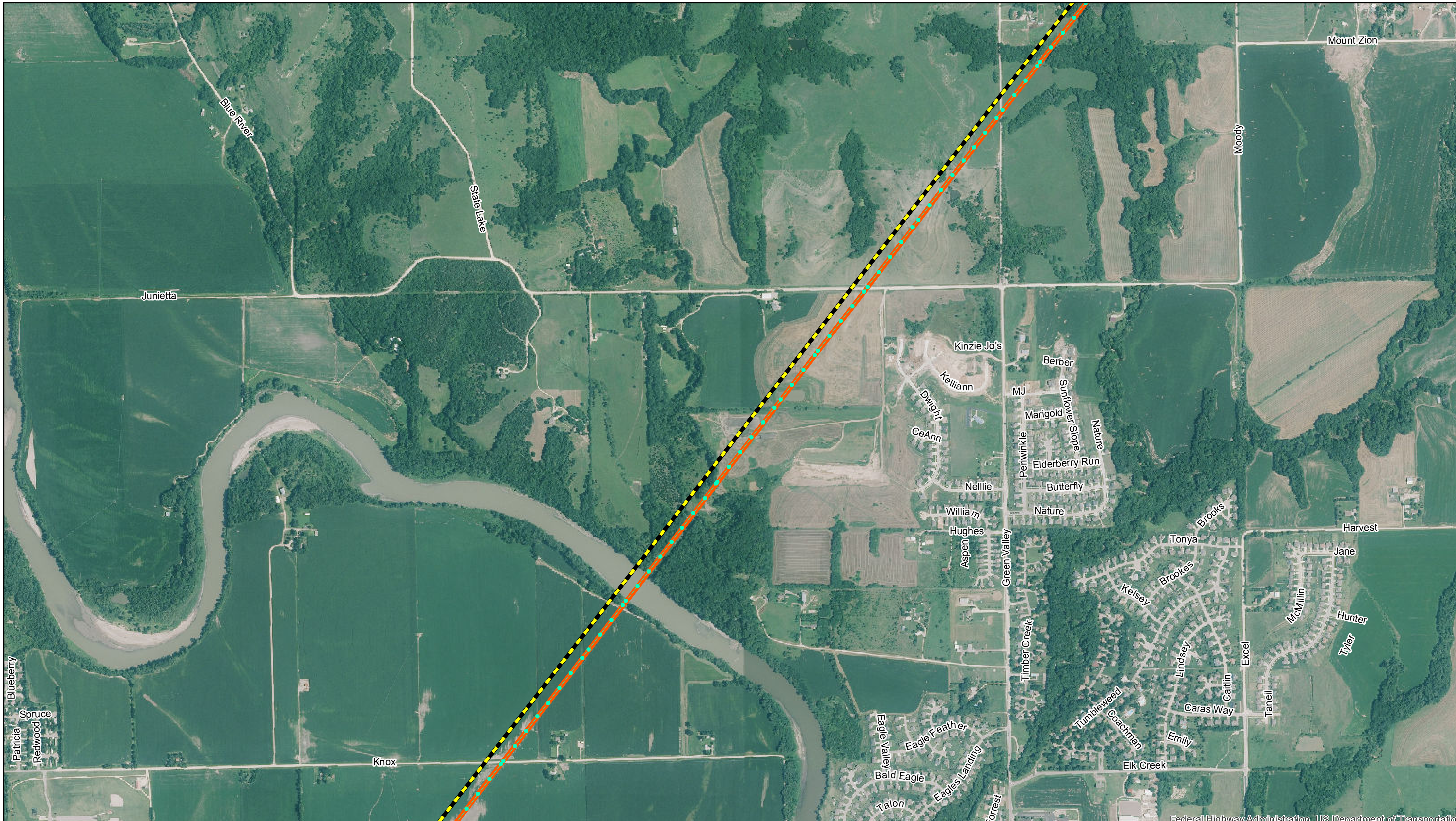
0 1,000 2,000 Feet

N W E S

Date: 2-16-15

Sheet No. 12

Exhibit KBH-1



Westar Preferred Route Submitted for KCC Approval

- ON EXISTING CL
- OFFSET APPR 50FT FROM EXIST CL
- OFFSET APPR 150 FT ON NEW ROW
- NEW ROW ON WESTAR JEC PROP

Existing Transmission Lines

- Existing Transmission
- Existing 230kV Being Replaced

BMcD Study Preferred Route

- BMcD Study Preferred Route
- WESTAR/JEC PROPERTY

0 1,000 2,000 Feet

N W E S

Date: 2-16-15

Sheet No. 13

Exhibit KBH-1

Westar Preferred Route Submitted for KCC Approval

- ON EXISTING CL
- OFFSET APPR 150 FT ON NEW ROW
- OFFSET APPR 50FT FROM EXIST CL
- NEW ROW ON WESTAR JEC PROP

Existing Transmission Lines

- Existing Transmission
- Existing 230kV Being Replaced

BMcD Study Preferred Route

- BMcD Study Preferred Route
- WESTAR/JEC PROPERTY

0 1,000 2,000 Feet

N W E S

Date: 2-16-15

Sheet No. 14

Exhibit KBH-1

Westar Preferred Route Submitted for KCC Approval

- ON EXISTING CL
- OFFSET APPR 50FT FROM EXIST CL
- OFFSET APPR 150 FT ON NEW ROW
- NEW ROW ON WESTAR JEC PROP

Existing Transmission Lines

- Existing Transmission
- Existing 230kV Being Replaced

BMcD Study Preferred Route

- BMcD Study Preferred Route
- WESTAR/JEC PROPERTY

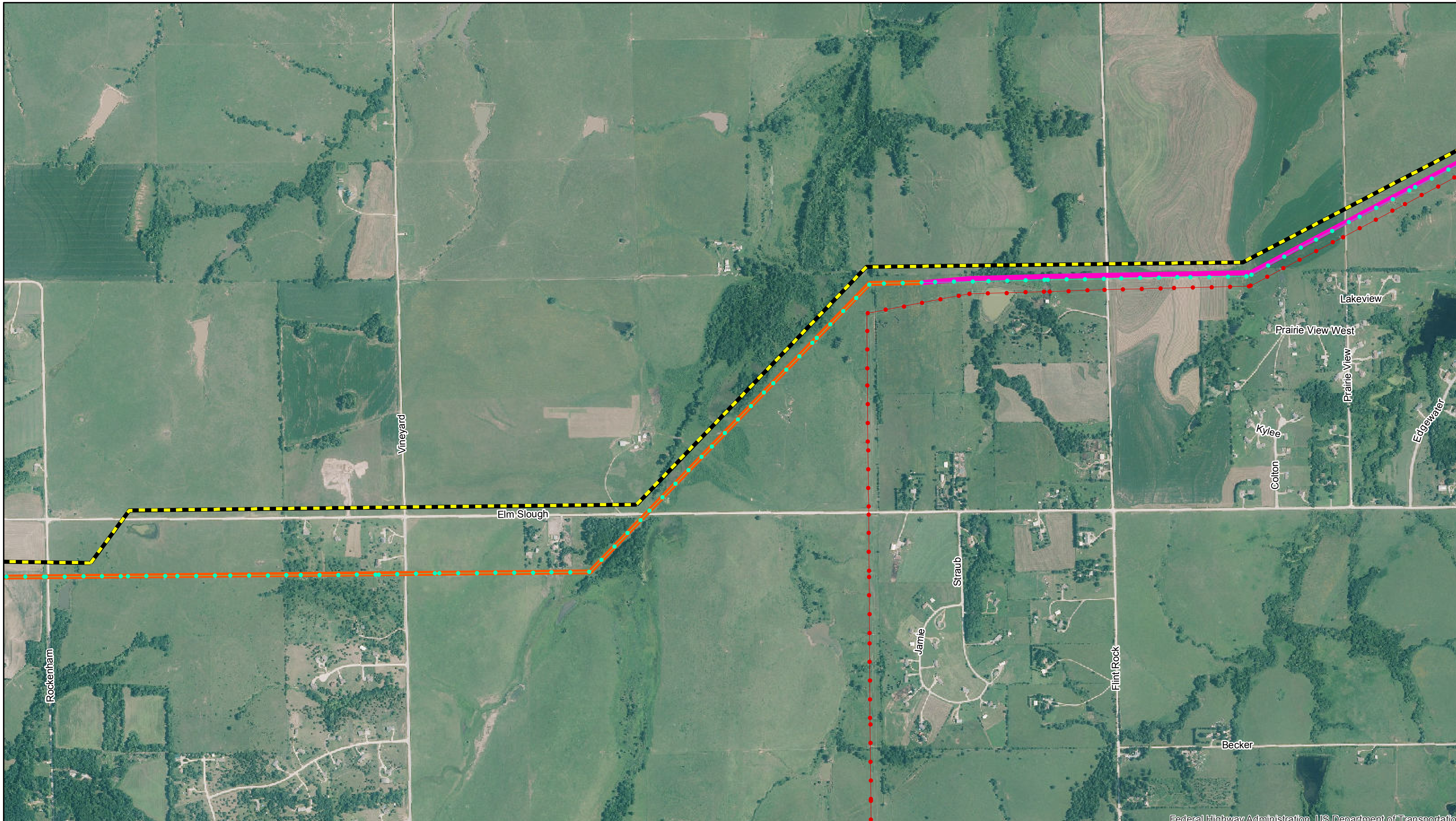
0 1,000 2,000 Feet

N W E S

Date: 2-16-15

Sheet No. 15

Exhibit KBH-1



Westar Preferred Route Submitted for KCC Approval

- ON EXISTING CL
- OFFSET APPR 50FT FROM EXIST CL
- OFFSET APPR 150 FT ON NEW ROW
- NEW ROW ON WESTAR JEC PROP

Existing Transmission Lines

- Existing Transmission
- Existing 230kV Being Replaced

BMcD Study Preferred Route

- BMcD Study Preferred Route
- WESTAR/JEC PROPERTY

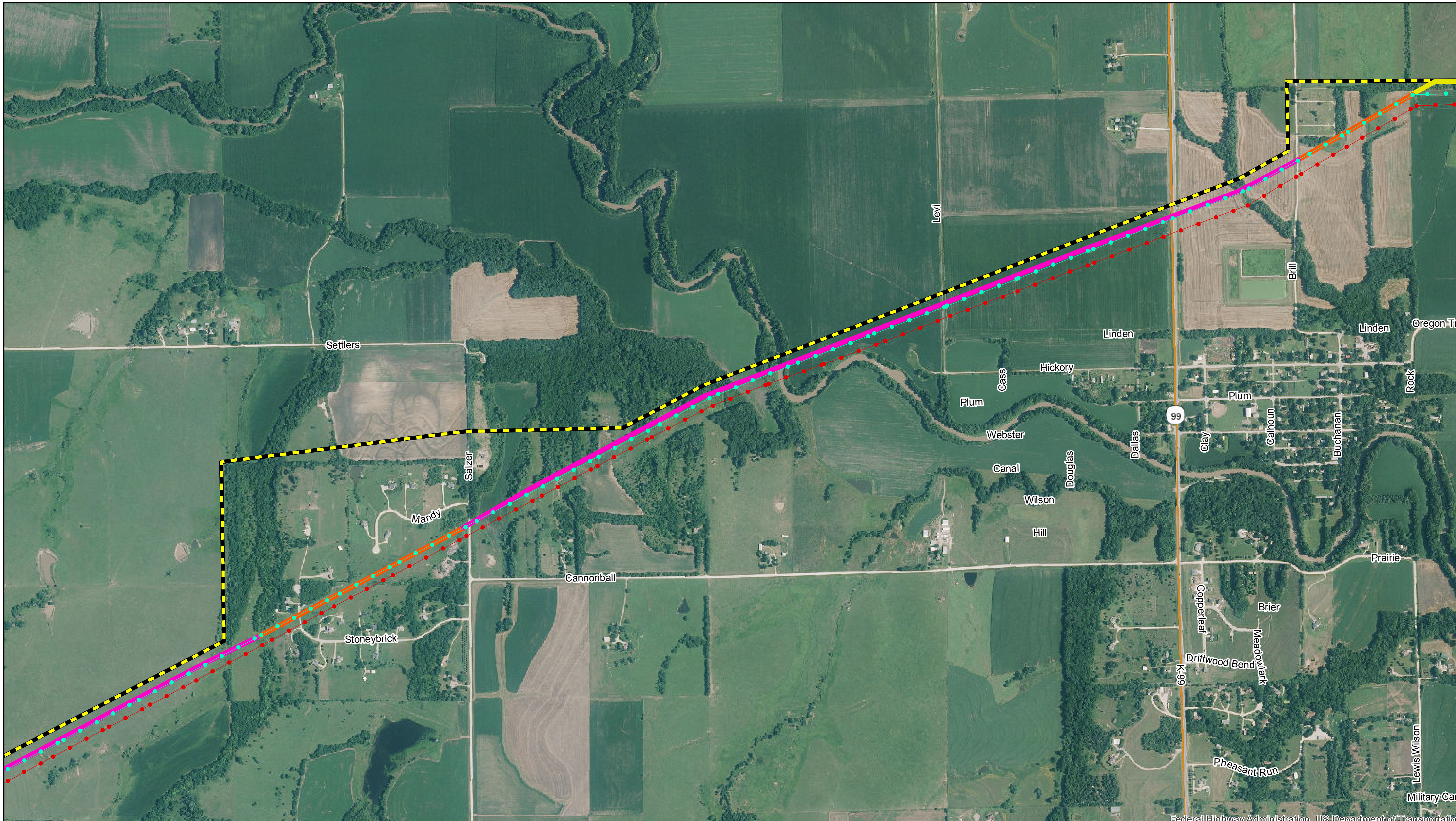
0 1,000 2,000 Feet

N W E S

Date: 2-16-15

Sheet No. 16

Exhibit KBH-1



Westar Preferred Route Submitted for KCC Approval

- ON EXISTING CL
- OFFSET APPR 50FT FROM EXIST CL
- OFFSET APPR 150 FT ON NEW ROW
- NEW ROW ON WESTAR JEC PROP

Existing Transmission Lines

- Existing Transmission
- Existing 230kV Being Replaced

BMcD Study Preferred Route

- BMcD Study Preferred Route
- WESTAR/JEC PROPERTY

0 1,000 2,000 Feet

N W E S

Date: 2-16-15

Sheet No. 17

Exhibit KBH-1

Westar Preferred Route Submitted for KCC Approval

- ON EXISTING CL
- OFFSET APPR 50FT FROM EXIST CL
- OFFSET APPR 150 FT ON NEW ROW
- NEW ROW ON WESTAR JEC PROP

Existing Transmission Lines

- Existing Transmission
- Existing 230kV Being Replaced

BMcD Study Preferred Route

- BMcD Study Preferred Route
- WESTAR/JEC PROPERTY

0 1,000 2,000 Feet

N W E S

Date: 2-16-15

Sheet No. 18

Exhibit KBH-1

Westar Preferred Route Submitted for KCC Approval

- ON EXISTING CL
- OFFSET APPR 50FT FROM EXIST CL
- OFFSET APPR 150 FT ON NEW ROW
- NEW ROW ON WESTAR JEC PROP

Existing Transmission Lines

- Existing Transmission
- Existing 230kV Being Replaced

BMcD Study Preferred Route

- BMcD Study Preferred Route
- WESTAR/JEC PROPERTY

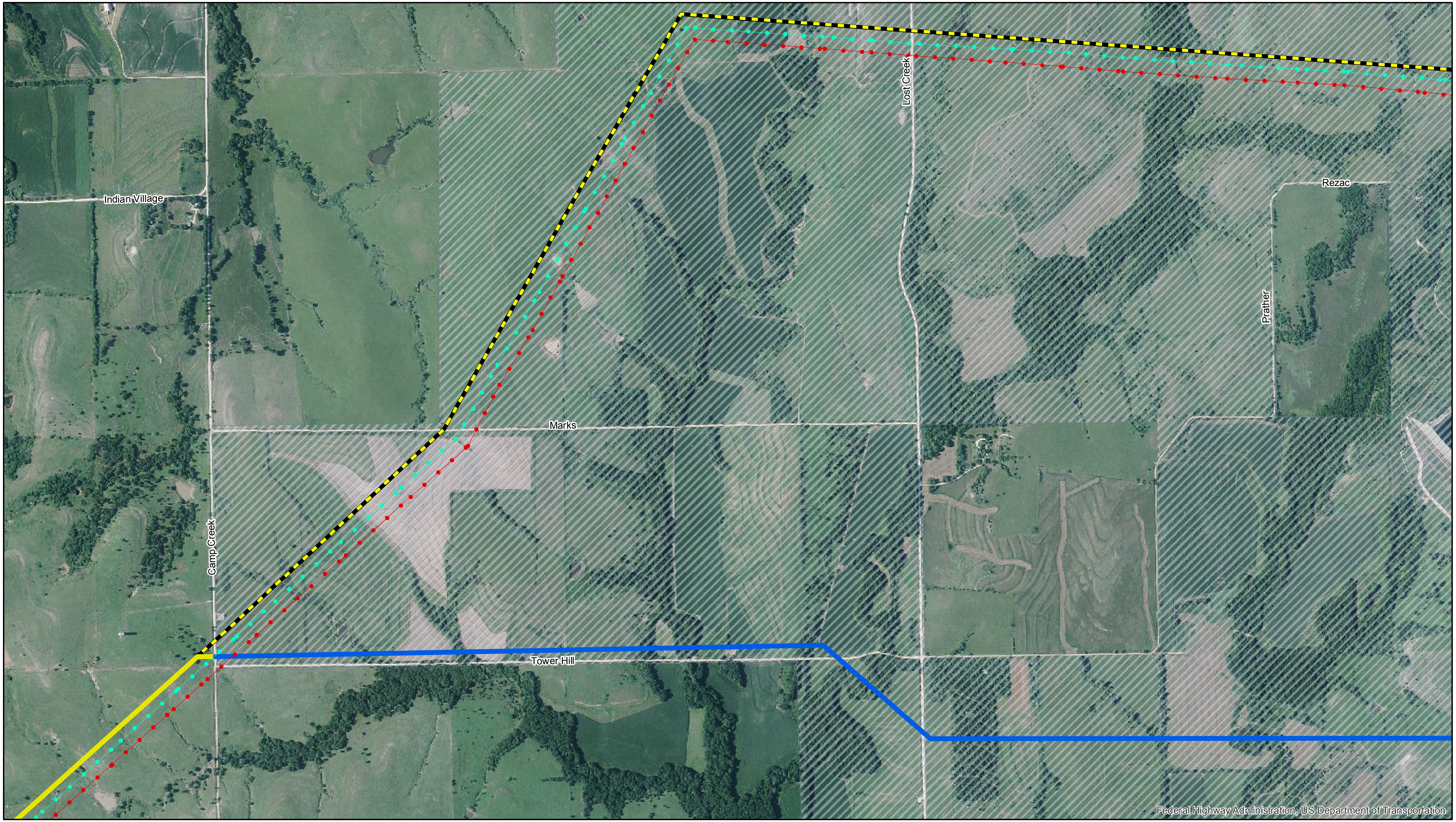
0 1,000 2,000 Feet

N W E S

Date: 2-16-15

Sheet No. 19

Exhibit KBH-1



Westar Preferred Route Submitted for KCC Approval

- ON EXISTING CL
- OFFSET APPR 50FT FROM EXIST CL
- OFFSET APPR 150 FT ON NEW ROW
- NEW ROW ON WESTAR JEC PROP

Existing Transmission Lines

- Existing Transmission
- Existing 230kV Being Replaced

BMcD Study Preferred Route

- BMcD Study Preferred Route
- WESTAR/JEC PROPERTY

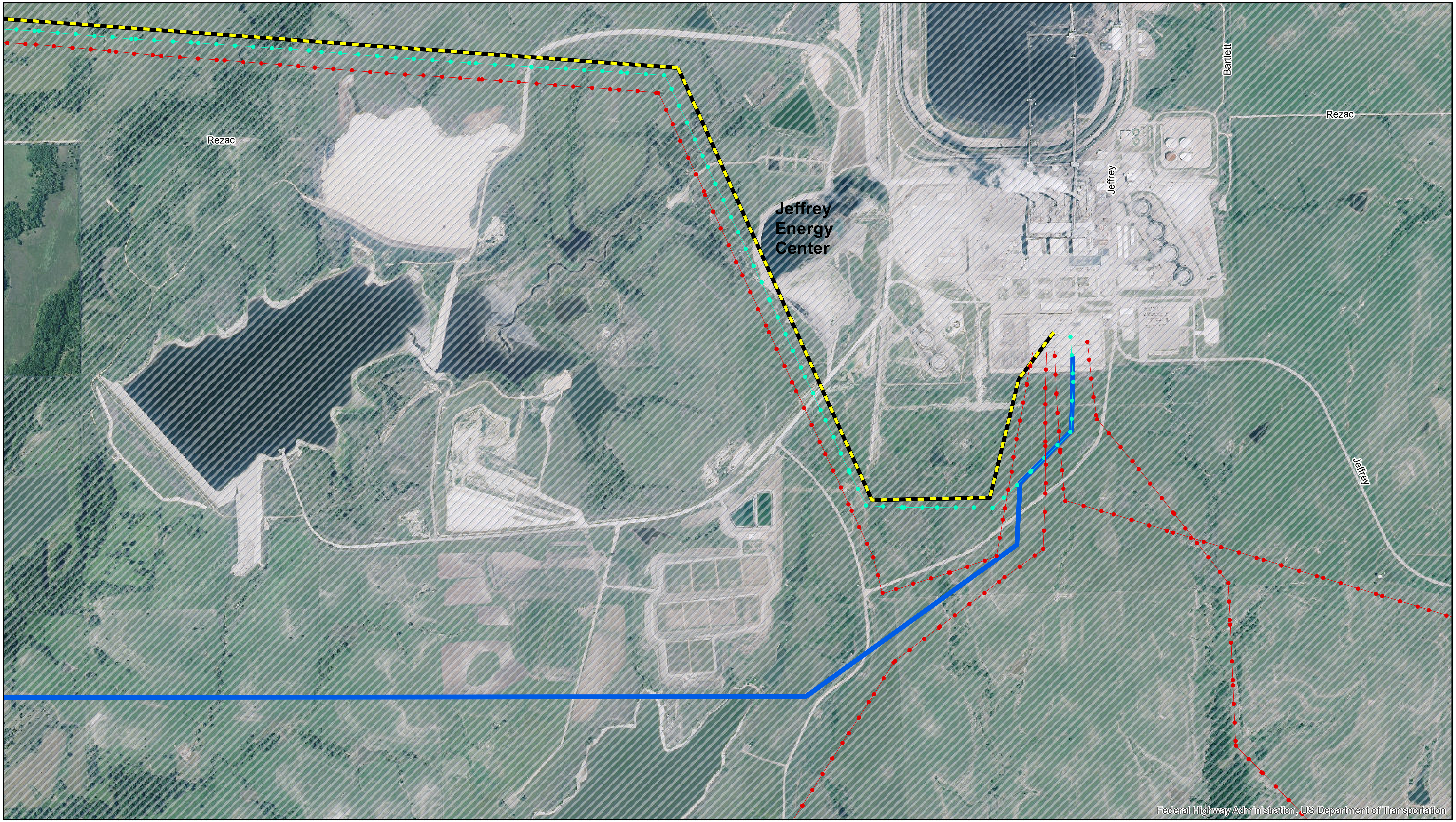
0 1,000 2,000 Feet

N W E S

Date: 2-16-15

Sheet No. 20

Exhibit KBH-1



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- OFFSET APPR 150 FT ON NEW ROW
- NEW ROW ON WESTAR JEC PROP

Existing Transmission Lines

- Existing Transmission
- Existing 230kV Being Replaced

BMcD Study Preferred Route

- BMcD Study Preferred Route
- WESTAR/JEC PROPERTY

0 1,000 2,000 Feet

N E S W

Date: 2-16-15

Sheet No. 21

SPP-NTC-200244

SPP
Notification to Construct

February 19, 2014

Mr. Mo Awad
Westar Energy, Inc.
P.O. Box 889
Topeka, KS 66601

RE: Notification to Construct Approved Reliability Network Upgrades

Dear Mr. Awad,

Pursuant to Section 3.3 of the Southwest Power Pool, Inc. ("SPP") Membership Agreement and Attachment O, Section VI, of the SPP Open Access Transmission Tariff ("OATT"), SPP provides this Notification to Construct ("NTC") directing Westar Energy, Inc. ("WR"), as the Designated Transmission Owner ("DTO"), to construct the Network Upgrade(s). This NTC is conditioned upon WR not ordering materials or beginning construction until:

(1) the DTO submits a refined NTC-C Project Estimate ("CPE") to SPP that has a variance bandwidth of -20% to +20% that does not exceed the Study Estimate variance bandwidth of -30% to +30% as provided for in SPP's Business Practices; or

(2) the SPP Board of Directors considers SPP's re-evaluation of a project that has a refined CPE from the DTO that exceeds the Study Estimate variance bandwidth of -30% to +30% as provided for in SPP's Business Practices.

On January 28, 2014, the SPP Board of Directors approved the Network Upgrade(s) listed below to be constructed as part of the 2014 Integrated Transmission Planning ("ITP") Near-Term Assessment.

New Network Upgrades

Project ID: 30390
Project Name: Line - East Manhattan - Jeffrey Energy Center 230 kV Ckt 1
Need Date for Project: 6/1/2017
Estimated Cost for Project: $53,832,758

Network Upgrade ID: 10600
Network Upgrade Name: East Manhattan - Jeffrey Energy Center 230 kV Ckt 1

201 WORTHEN DRIVE | LITTLE ROCK, ARKANSAS 72223-4936 | 501-614-3200 | SPP.ORG

SPP-NTC-200244

Rebuild
Network Upgrade Description: Rebuild 27-mile 230 kV line from East Manhattan to Jeffrey Energy Center to 345 kV standards but operate as 230 kV using bundled 1590 ACSR conductor. Upgrade terminal equipment at East Manhattan and Jeffrey Energy Center to a minimum emergency rating of 2000 Amps.
Network Upgrade Owner: WR
MOPC Representative(s): John Olsen, Tom Stuchlik
TWG Representative: Mo Awad
Categorization: Regional reliability
Network Upgrade Specification: All elements and conductor must have at least an emergency rating of 797 MVA.
Network Upgrade Justification: To address the overload of the East Manhattan - Jeffrey Energy Center 230 kV line for the outage of Geary - Jeffrey Energy Center 345 kV Ckt 1.
Estimated Cost for Network Upgrade (current day dollars): $53,832,758
Cost Allocation of the Network Upgrade: Base Plan
Estimated Cost Source: WR
Date of Estimated Cost: 11/21/2013

Project ID: 30560
Project Name: Line - Sumner County - Viola 138 kV Ckt 1
Need Date for Project: 6/1/2019
Estimated Cost for Project: $51,513,963

Network Upgrade ID: 50698
Network Upgrade Name: Sumner County - Viola 138 kV Ckt 1
Network Upgrade Description: Build new 28-mile 138 kV line from Viola to Sumner County.
Network Upgrade Owner: WR
MOPC Representative(s): John Olsen, Tom Stuchlik
TWG Representative: Mo Awad
Categorization: Zonal Reliability
Network Upgrade Specification: All elements and conductor must have at least an emergency rating of 314 MVA.
Network Upgrade Justification: To address low voltages at Creswell, Farber, Oxford, Sumner, Sumner County No. 10 Belle Plain, TC-Rock and Timber Junction for the outage of El Paso - Farber 138 kV, Farber - Sumner County No. 10 Belle Plain 138 kV, and Kildare - Newkirk 138 kV.
Estimated Cost for Network Upgrade (current day dollars): $51,513,963
Cost Allocation of the Network Upgrade: Base Plan

SPP-NTC-200244

Estimated Cost Source: WR
Date of Estimated Cost: 11/21/2013

Commitment to Construct

Please provide to SPP a written commitment to construct the Network Upgrade(s) within 90 days of the date of this NTC, pursuant to Attachment O, Section VI.6 of the SPP OATT, in addition to providing a construction schedule. Failure to provide a sufficient written commitment to construct as required by Attachment O could result in the Network Upgrade(s) being assigned to another entity.

CPE

Please provide SPP a CPE by August 31, 2014, as described in SPP's Business Practice No. 7060 regarding Notification to Construct with Conditions. WR shall advise SPP of any inability to provide the CPE by August 31, 2014, as soon as the inability becomes apparent.

Removal of Conditions

Upon notice by SPP of removal of the conditions contained in this NTC, SPP will issue the DTO a new NTC and the following will be applicable:

Mitigation Plan

The Need Date represents the timing required for the Network Upgrade(s) to address the identified need. Your prompt attention is required for formulation and approval of any necessary mitigation plans for the Network Upgrade(s) included in the Network Upgrade(s) if the Need Date is not feasible. Additionally, if it is anticipated that the completion of any Network Upgrade will be delayed past the Need Date, SPP requires a mitigation plan be filed within 60 days of the determination of expected delays.

Notification of Commercial Operation

Please submit a notification of commercial operation for each listed Network Upgrade to SPP as soon as the Network Upgrade is complete and in-service. Please provide SPP with the actual costs of these Network Upgrades as soon as possible after completion of construction. This will facilitate the timely billing by SPP based on actual costs.

Notification of Progress

On an ongoing basis, please keep SPP advised of any inability on WR's part to complete the approved Network Upgrade(s). For project tracking, SPP requires WR to submit status updates of the Network Upgrade(s) quarterly in conjunction with the SPP Board of Directors meetings. However, WR shall also advise SPP of any inability to comply with the Project Schedule as soon as the inability becomes apparent.

All terms and conditions of the SPP OATT and the SPP Membership Agreement shall apply to this Project, and nothing in this NTC shall vary such terms and conditions.

Don't hesitate to contact me if you have questions or comments regarding these instructions. Thank you for the important role that you play in maintaining the reliability of our electric grid.

Sincerely,

Lanny Nickell

Lanny Nickell
Vice President, Engineering
Phone: (501) 614-3232 • Fax: (501) 482-2022 • lnickell@spp.org

cc: Carl Monroe - SPP
Katherine Prewitt - SPP
John Olsen - WR
Tom Stuchlik - WR
Dave Benak - WR

Westar Energy.

Mo Awad
Manager, Transmission Planning
Email: Mo.Awad@WestarEnergy.com
Office: 785-575-1674

August 28, 2014

Mr. Lanny Nickell
Vice President, Engineering
Southwest Power Pool
201 Worthen Drive
Little Rock, AR 72223-4936

Ref: SPP-NTC-200244

Dear Mr. Nickell,

This letter is in response to the SPP Notification to Construct letter (SPP-NTC-200244) issued on February 19, 2014.

Per this letter, Westar Energy is providing Conditional Project Estimate (CPE) for those projects identified in (SPP-NTC-200244) by the required date of August 31, 2014 as described in Business Practice No. 7060 regarding Notification to Construct with Conditions. Westar is committed to both upgrades to be placed in-service by the SPP need date. Therefore, no mitigation is required. In summary, the cost estimate for PID#30390 increased within the allowed bandwidth and the cost estimate for PID#30560 remains unchanged. All cost estimates are already submitted in TAGIT.

Westar understands that the CPE for each project is within the requirements for removing the conditions on the NTC as described in Business Practice 7060, and should be deemed acceptable. Westar will await your concurrence and issuance of a NTC without conditions before proceeding with further development.

New Network Upgrades

Project ID: 30390
Project Name: Line - East Manhattan - Jeffrey Energy Center 230 kV Ckt 1
Need Date for Project: 6/1/2017
Estimated Cost for Project: ~~$53,832,758~~

> **Network Upgrade ID:** 10600
> **Network Upgrade Name:** East Manhattan - Jeffrey Energy Center 230 kV Ckt 1 Rebuild
> **Network Upgrade Description:** Rebuild 27-mile 230 kV line from East Manhattan to Jeffrey Energy Center to 345 kV standards but operate as 230 kV using bundled 1590 ACSR

conductor. Upgrade terminal equipment at East Manhattan and Jeffrey Energy Center to a minimum emergency rating of 2000 Amps.
Network Upgrade Owner: WR
MOPC Representative(s): John Olsen, Tom Stuchlik
TWG Representative: Mo Awad
Categorization: Regional reliability
Network Upgrade Specification: All elements and conductor must have at least an emergency rating of 797 MVA.
Network Upgrade Justification: To address the overload of the East Manhattan - Jeffrey Energy Center 230 kV line for the outage of Geary - Jeffrey Energy Center 345 kV Ckt 1.
Estimated Cost for Network Upgrade (current day dollars): ~~$53,832,758~~
Cost Allocation of the Network Upgrade: Base Plan
Estimated Cost Source: WR
Date of Estimated Cost: 11/21/2013

Westar is committed to PID#30390 and all its associated UIDs by the SPP need date. The Conditional Project Estimate has been submitted in TAGIT.

Westar Projected In-Service Date: 6/1/2017
Westar Conditional Project Estimate: $58,317,000
Date of Conditional Project Estimate: 8/28/2014

Project ID: 30560
Project Name: Line - Sumner County - Viola 138 kV Ckt 1
Need Date for Project: 6/1/2019
Estimated Cost for Project: $51,513,963

Network Upgrade ID: 50698
Network Upgrade Name: Sumner County - Viola 138 kV Ckt 1
Network Upgrade Description: Build new 28-mile 138 kV line from Viola to Sumner County.
Network Upgrade Owner: WR
MOPC Representative(s): John Olsen, Tom Stuchlik
TWG Representative: Mo Awad
Categorization: Zonal Reliability
Network Upgrade Specification: All elements and conductor must have at least an emergency rating of 314 MVA.
Network Upgrade Justification: To address low voltages at Creswell, Farber, Oxford, Sumner, Sumner County No. 10 Belle Plain, TC-Rock and Timber Junction for the outage of El Paso - Farber 138 kV, Farber - Sumner County No. 10 Belle Plain 138 kV, and Kildare - Newkirk 138 kV.

Estimated Cost for Network Upgrade (current day dollars): $51,513,963
Cost Allocation of the Network Upgrade: Base Plan
Estimated Cost Source: WR
Date of Estimated Cost: 11/21/2013

Westar is committed to PID#30560 and all its associated UIDs by the SPP need date. The cost estimate remains unchanged and submitted in TAGIT.

Westar Projected In-Service Date: 6/1/2019
Westar Conditional Project Estimate: $51,513,963
Date of Conditional Project Estimate: 8/28/2014

Westar understands that the total updated estimate for each project is within the requirements for removing the conditions on the NTC as described in Business Practice 7060, and should be deemed acceptable. We will await your concurrence and issuance of a NTC without conditions before proceeding with further development.

If you have any questions, please do not hesitate in contacting me.

Sincerely,

Mo Awad
Westar Energy
Manager, Transmission Planning
785-575-1674
Mo.Awad@westarenergy.com

cc: Carl Monroe (Southwest Power Pool)
Antoine Lucas (Southwest Power Pool)
Cary Frizzell (Southwest Power Pool)
John Olsen (Westar Energy)
Tom Stuchlik (Westar Energy)
David Benak (Westar Energy)

SPP-NTC-200296

1Notification to Construct

September 2, 2014

Mr. Mo Awad
Westar Energy, Inc.
P.O. Box 889
Topeka, KS 66601

RE: Notification to Construct Approved Reliability Network Upgrades

Dear Mr. Awad,

Pursuant to Section 3.3 of the Southwest Power Pool, Inc. ("SPP") Membership Agreement and Attachment O, Section VI, of the SPP Open Access Transmission Tariff ("OATT"), SPP provides this Notification to Construct ("NTC") directing Westar Energy, Inc. ("WR"), as the Designated Transmission Owner, to construct the Network Upgrade(s).

On January 28, 2014, the SPP Board of Directors approved the Network Upgrades listed below to be constructed as part of the 2014 Integrated Transmission Planning Near-Term Assessment. On February 19, 2014, SPP issued WR the Notification to Construct with Conditions ("NTC-C") No. 200244.

On August 28, 2014, SPP received WR's NTC-C Project Estimates ("CPE") for the Network Upgrades specified in the NTC-C No. 200244. SPP approved the CPEs as meeting the requirements of Condition No. 1 of the NTC-C, and notified WR that SPP would issue an NTC for the Network Upgrades.

Upgrades with Modifications

Previous NTC Number: 200244
Previous NTC Issue Date: 2/19/2014
Project ID: 30390
Project Name: Line - East Manhattan - Jeffrey Energy Center 230 kV Ckt 1
Need Date for Project: 6/1/2017
Estimated Cost for Project: $58,317,000

> **Network Upgrade ID:** 10600
> **Network Upgrade Name:** East Manhattan - Jeffrey Energy Center 230 kV Ckt 1 Rebuild

SPP-NTC-200296

Network Upgrade Description: Rebuild 27-mile 230 kV line from East Manhattan to Jeffrey Energy Center to 345 kV standards but operate as 230 kV using bundled 1590 ACSR conductor. Upgrade terminal equipment at East Manhattan and Jeffrey Energy Center to a minimum emergency rating of 2000 Amps.
Network Upgrade Owner: WR
MOPC Representative(s): John Olsen, Tom Stuchlik
TWG Representative: Mo Awad
Reason for Change: The CPE(s) for this project was determined to meet the requirements of Condition No. 1 of NTC-C No. 200244. Therefore, the conditions of the project are removed.
Categorization: Regional reliability
Network Upgrade Specification: All elements and conductor must have at least an emergency rating of 797 MVA.
Network Upgrade Justification: To address the overload of the East Manhattan - Jeffrey Energy Center 230 kV line for the outage of Geary - Jeffrey Energy Center 345 kV Ckt 1.
Estimated Cost for Network Upgrade (current day dollars): $58,317,000
Cost Allocation of the Network Upgrade: Base Plan
Estimated Cost Source: WR
Date of Estimated Cost: 8/28/2014

Previous NTC Number: 200244
Previous NTC Issue Date: 2/19/2014
Project ID: 30560
Project Name: Line - Sumner County - Viola 138 kV Ckt 1
Need Date for Project: 6/1/2019
Estimated Cost for Project: $51,513,963

Network Upgrade ID: 50698
Network Upgrade Name: Sumner County - Viola 138 kV Ckt 1
Network Upgrade Description: Build new 28-mile 138 kV line from Viola to Sumner County.
Network Upgrade Owner: WR
MOPC Representative(s): John Olsen, Tom Stuchlik
TWG Representative: Mo Awad
Reason for Change: The CPE(s) for this project was determined to meet the requirements of Condition No. 1 of NTC-C No. 200244. Therefore, the conditions of the project are removed.
Categorization: Zonal Reliability
Network Upgrade Specification: All elements and conductor must have at least an emergency rating of 314 MVA.

SPP-NTC-200296

Network Upgrade Justification: To address low voltages at Creswell, Farber, Oxford, Sumner, Sumner County No. 10 Belle Plain, TC-Rock and Timber Junction for the outage of El Paso - Farber 138 kV, Farber - Sumner County No. 10 Belle Plain 138 kV, and Kildare - Newkirk 138 kV.
Estimated Cost for Network Upgrade (current day dollars): $51,513,963
Cost Allocation of the Network Upgrade: Base Plan
Estimated Cost Source: WR
Date of Estimated Cost: 5/6/2014

Commitment to Construct
Please provide to SPP a written commitment to construct the Network Upgrade(s) within 90 days of the date of this NTC, pursuant to Attachment O, Section VI.6 of the SPP OATT. Failure to provide a sufficient written commitment to construct as required by Attachment O could result in the Network Upgrade(s) being assigned to another entity.

Mitigation Plan
The Need Date represents the timing required for the Network Upgrade(s) to address the identified need. Your prompt attention is required for formulation and approval of any necessary mitigation plans for the Network Upgrade(s) included in the Network Upgrade(s) if the Need Date is not feasible. Additionally, if it is anticipated that the completion of any Network Upgrade will be delayed past the Need Date, SPP requires a mitigation plan be filed within 60 days of the determination of expected delays.

Notification of Commercial Operation
Please submit a notification of commercial operation for each listed Network Upgrade to SPP as soon as the Network Upgrade is complete and in-service. Please provide SPP with the actual costs of these Network Upgrades as soon as possible after completion of construction. This will facilitate the timely billing by SPP based on actual costs.

Notification of Progress
On an ongoing basis, please keep SPP advised of any inability on WR's part to complete the approved Network Upgrade(s). For project tracking, SPP requires WR to submit status updates of the Network Upgrade(s) quarterly in conjunction with the SPP Board of Directors meetings. However, WR shall also advise SPP of any inability to comply with the Project Schedule as soon as the inability becomes apparent.

All terms and conditions of the SPP OATT and the SPP Membership Agreement shall apply to this Project, and nothing in this NTC shall vary such terms and conditions.

Don't hesitate to contact me if you have questions or comments regarding these instructions.

SPP-NTC-200296

Thank you for the important role that you play in maintaining the reliability of our electric grid.

Sincerely,

Lanny Nickell

Lanny Nickell
Vice President, Engineering
Phone: (501) 614-3232 • Fax: (501) 482-2022 • lnickell@spp.org

cc: Carl Monroe - SPP
Antoine Lucas - SPP
John Olsen - WR
Tom Stuchlik - WR
Dave Benak - WR

Westar Energy.

Mo Awad
Manager, Transmission Planning
Email: Mo.Awad@WestarEnergy.com
Office: 785-575-1674

September 3, 2014

Mr. Lanny Nickell
Vice President, Engineering
Southwest Power Pool
201 Worthen Drive
Little Rock, AR 72223-4936

Ref: SPP-NTC-200296

Dear Mr. Nickell,

This letter is in response to the SPP Notification to Construct letter (SPP-NTC-200296) issued on September 2, 2014.

On February 19, 2014, SPP issued Westar the Notification to Construct with Conditions ("NTC-C") No. 200244. On August 28, 2014, Westar provided to SPP NTC-C Project Estimates ("CPE") for the Network Upgrades specified in the NTC-C No. 200244. SPP approved the CPEs as meeting the requirements of Condition No. 1 of the NTC-C. On September 2, Westar received SPP NTC#200296 with no conditions for the upgrades identified in NTC#200244.

Per this letter, Westar Energy is committing to all projects as listed in SPP-NTC-200296. All cost estimates were provided to SPP in the NTC CPE letter dated August 28, 2014 and are submitted in TAGIT.

Upgrades with Modifications

Previous NTC Number: 200244
Previous NTC Issue Date: 2/19/2014
Project ID: 30390
Project Name: Line - East Manhattan - Jeffrey Energy Center 230 kV Ckt 1
Need Date for Project: 6/1/2017
Estimated Cost for Project: $58,317,000

> **Network Upgrade ID:** 10600
> **Network Upgrade Name:** East Manhattan - Jeffrey Energy Center 230 kV Ckt 1Rebuild

Network Upgrade Description: Rebuild 27-mile 230 kV line from East Manhattan to Jeffrey Energy Center to 345 kV standards but operate as 230 kV using bundled 1590 ACSR conductor. Upgrade terminal equipment at East Manhattan and Jeffrey Energy Center to a minimum emergency rating of 2000 Amps.
Network Upgrade Owner: WR
MOPC Representative(s): John Olsen, Tom Stuchlik
TWG Representative: Mo Awad
Reason for Change: The CPE(s) for this project was determined to meet the requirements of Condition No. 1 of NTC-C No. 200244. Therefore, the conditions of the project are removed.
Categorization: Regional reliability
Network Upgrade Specification: All elements and conductor must have at least an emergency rating of 797 MVA.
Network Upgrade Justification: To address the overload of the East Manhattan - Jeffrey Energy Center 230 kV line for the outage of Geary - Jeffrey Energy Center 345 kV Ckt 1.
Estimated Cost for Network Upgrade (current day dollars): $58,317,000
Cost Allocation of the Network Upgrade: Base Plan
Estimated Cost Source: WR
Date of Estimated Cost: 8/28/2014

Westar is committed to the project above and all of its associated upgrades. The Westar projected in service date is 6/1/2017 which matches the SPP need date.

==

Previous NTC Number: 200244
Previous NTC Issue Date: 2/19/2014
Project ID: 30560
Project Name: Line - Sumner County - Viola 138 kV Ckt 1
Need Date for Project: 6/1/2019
Estimated Cost for Project: $51,513,963

Network Upgrade ID: 50698
Network Upgrade Name: Sumner County - Viola 138 kV Ckt 1
Network Upgrade Description: Build new 28-mile 138 kV line from Viola to Sumner County.
Network Upgrade Owner: WR
MOPC Representative(s): John Olsen, Tom Stuchlik
TWG Representative: Mo Awad
Reason for Change: The CPE(s) for this project was determined to meet the requirements of Condition No. 1 of NTC-C No. 200244. Therefore, the conditions of the project are removed.
Categorization: Zonal Reliability

Network Upgrade Specification: All elements and conductor must have at least an emergency rating of 314 MVA.
Network Upgrade Justification: To address low voltages at Creswell, Farber, Oxford, Sumner, Sumner County No. 10 Belle Plain, TC-Rock and Timber Junction for the outage of El Paso - Farber 138 kV, Farber - Sumner County No. 10 Belle Plain 138 kV, and Kildare - Newkirk 138 kV.
Estimated Cost for Network Upgrade (current day dollars): $51,513,963
Cost Allocation of the Network Upgrade: Base Plan
Estimated Cost Source: WR
Date of Estimated Cost: 5/6/2014

Westar is committed to the project above and all of its associated upgrades. The Westar projected in service date is 6/1/2019 which matches the SPP need date.

If you have any questions, please do not hesitate in contacting me.

Sincerely,

Mo Awad
Westar Energy
Manager, Transmission Planning
785-575-1674
Mo.Awad@westarenergy.com

cc: Carl Monroe (Southwest Power Pool)
Katherine Prewitt (Southwest Power Pool)
John Olsen (Westar Energy)
Tom Stuchlik (Westar Energy)
Dave Benak (Westar Energy)

Westar Energy.

November 12, 2014

Name
Address
City, ST ZIP

Dear Property Owner,

We are making an upgrade to the transmission system in your area and are considering new routes on or near your property. Please join us to learn more about this project.

In the early 1980s, Westar Energy built a large power line to carry electricity from Jeffrey Energy Center to Manhattan. In the past few years, the demand for power has increased and the line needs to be replaced. We are developing a plan to replace the entire 27 mile power line so we can keep electricity in your area reliable.

Enclosed, you'll see a map that shows the *potential* routes for the new power line in green. It may look a bit overwhelming; however, keep in mind these are our *potential* routes. We want you to help us determine which route to build. Please join us for an open house to discuss routes for the new power line.

- **Who is invited?** Landowners and residents along the potential routes are receiving this letter of invitation. Anyone is welcome to attend.
- **When and where is the open house?** 4 to 7 p.m. Dec. 3 and 4 at the Wamego Area Senior Citizens/Community Center, 501 Ash St. in Wamego. Come and go during that time at your convenience.

Your attendance is important to us. Here are a few reasons why:

- Help us determine the preferred route from those shown on the map.
- Complete a survey about how routes are evaluated.
- Learn about the logistics and benefits of the project.
- Learn how the project could affect your land.
- Share your concerns and questions

We look forward to meeting with you at the open house. If you have any questions prior to our open houses, please contact Johnny Onstead at (904) 571-9269 or jonstead@twinpeaksfieldservices.com.

Sincerely,

Kelly B. Harrison

Jeffrey Energy Center to E. Manhattan 230kV Replacement Project

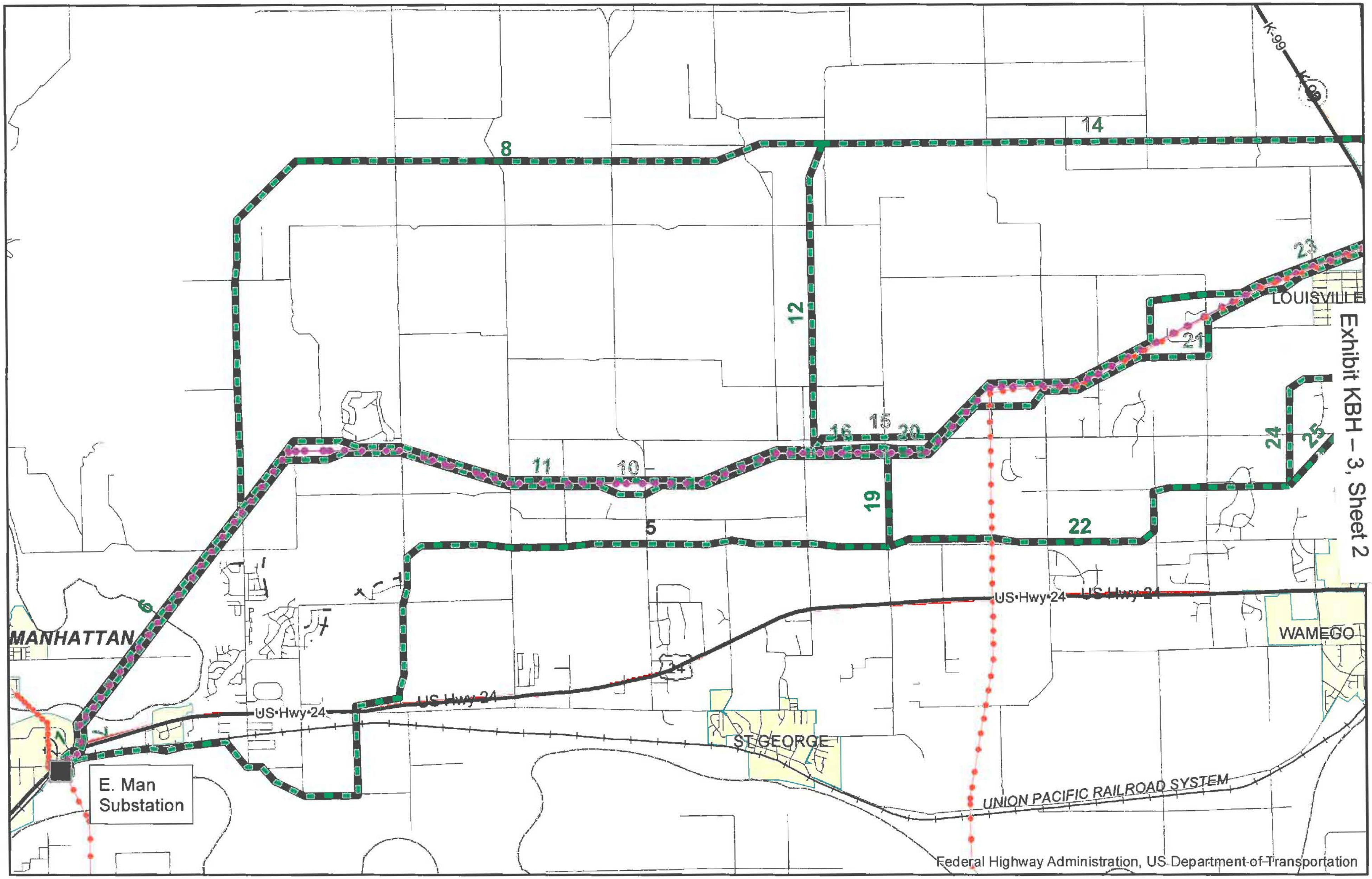


Exhibit KBH – 3, Sheet 2

Existing Transmission Lines

230kV Line Being Replaced

Other Existing Transmission Lines

Potentional New Routes Under Consideration

Potential Routes for New 230kV-345kV Line

Date: 12-04-14

N W E S

(Continued on Other Side)

Jeffrey Energy Center to E. Manhattan 230kV Replacement Project

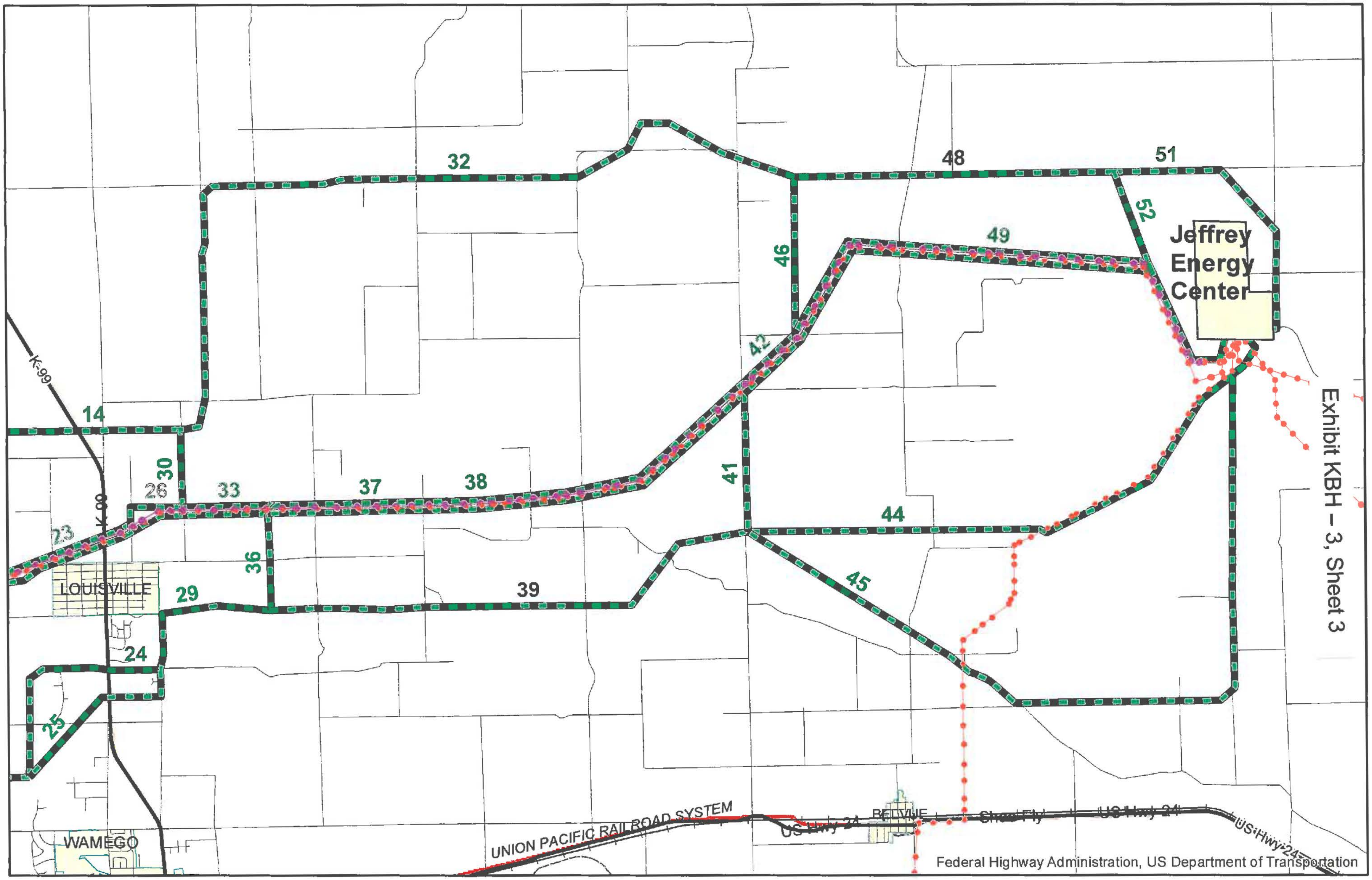


Exhibit KBH – 3, Sheet 3

Existing Transmission Lines

230kV Line Being Replaced

Other Existing Transmission Lines

Potentional New Routes Under Consideration

Potential Routes for New 230kV-345kV Line

Date: 12-04-14

N E S W

(Continued on Other Side)

Westar Energy.
Taking energy to heart.

JEC TO E. MANHATTAN ROUTING PROCESS

Which route is the best?

A QUICK OVERVIEW ON HOW LANDOWNERS AND WESTAR WORK TOGETHER TO DETERMINE THE BEST ROUTE FOR A PROJECT.

Routing a transmission line is a lengthy process, and for those along the selected route, the beginning of a relationship that will last for decades. We realize this can be a challenging process, and we want to be a good neighbor. To that end, we seek feedback from local property owners early in the process to determine the final route for the transmission line.

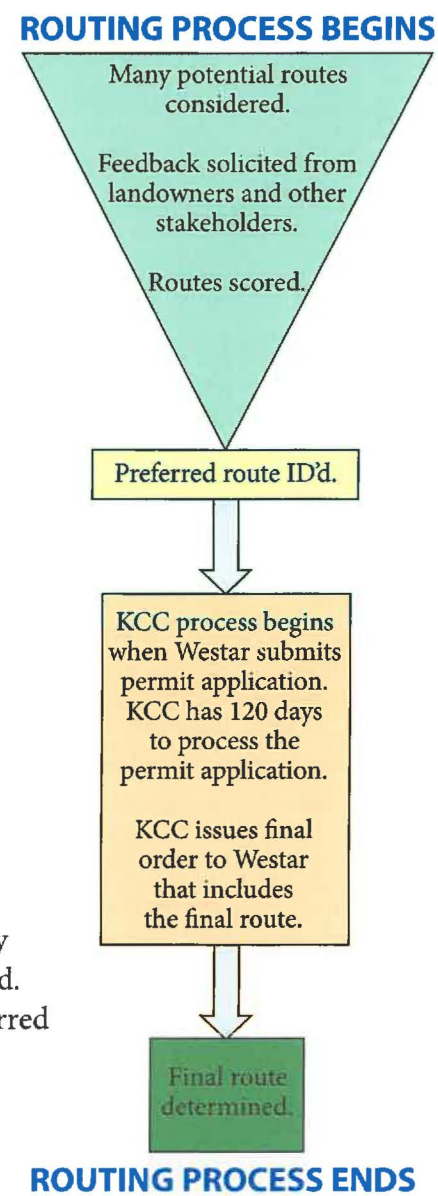
HERE IS A SUMMARY OF THAT PROCESS:

Using aerial photos, public records and visits to the area, we identify potential routes the transmission line could follow.

Westar identifies property owners along the potential routes and invites them to open houses about the project. These open houses give property owners a chance to learn about the project and Westar an opportunity to learn more about how the routes may impact property owners. We ask property owners for feedback in person and through questionnaires. Often property owner feedback will result in some adjustment to the routes. This information is used to apply scores to each of the potential routes. The route with the highest score is called the preferred route.

At this stage the regulatory process begins. Westar submits a filing with the Kansas Corporation Commission identifying the preferred route in the siting study. During the KCC process, landowners along the route will be notified and given information about how they can participate in the KCC's decision making process. Public comments may be submitted in writing and at least one public hearing will be conducted. The KCC staff and engineers also evaluate the siting study and the preferred route. They will make a recommendation to the KCC Commissioners who will approve, request modifications or deny Westar's application.

Once a route is selected, we notify property owners and begin working with them to obtain easements for the transmission line.



Westar Energy.
Taking energy to heart.

JEC TO E. MANHATTAN TRANSMISSION LINE

Building better reliability.

THE JEFFREY ENERGY CENTER TO EAST MANHATTAN 230kV/345kV TRANSMISSION PROJECT WILL PROVIDE THE RELIABLE ENERGY NEEDED FOR A GROWING KANSAS.

The lack of high-voltage transmission lines in north-central Kansas causes inefficiencies that can impact the reliability of electrical service. The Jeffrey Energy Center to East Manhattan transmission upgrade will help ease congestion across the network and improve the delivery of power to customers. It will benefit residents and businesses in central Kansas and beyond by strengthening the regional high-voltage grid, bringing improved reliability and helping to provide access to a wider range of cost-effective generation sources. It will provide tax revenue, construction jobs and local expenditures. It also will expand capabilities for future investment in area industry.

THE PROJECT

The Jeffrey Energy Center to East Manhattan project will replace an existing transmission line that was built in the early 1980s. The Southwest Power Pool (SPP) has directed Westar Energy, Inc. (Westar) to replace the transmission line with a new transmission line that will carry more electricity. The new transmission line will be designed and constructed using specifications that will allow the line to operate at a higher voltage (345kV) to carry more electricity if needed in the future. Westar will continue to operate the transmission line at the existing voltage (230kV) until the SPP determines a need to convert it to the higher voltage. No significant upgrades are necessary at the substations located on each end of the transmission line with this project. The new transmission line will continue to move electrical power between the Jeffrey Energy Center substation and the East Manhattan substation.

THE ROUTING PROCESS

A routing study identifies many potential routes intended to minimize adverse impacts to residents, their land and the natural environment while providing a technically viable and cost-effective transmission line. As part of the review/input process, Westar will meet with state and local officials, landowners, residents and environmental organizations to fully discuss the project, review proposed routes and answer any questions. The routes will be presented to potentially affected landowners during community open house events in December 2014. Landowners along the proposed routes will have the opportunity to review the routes and provide input to Westar. Westar will consider input from all stakeholders in developing a final preferred route to submit to the Kansas Corporation Commission (KCC). The KCC has the final authority to determine where the line will be built.

WORKING WITH LANDOWNERS

Westar is committed to open and frequent communications with landowners. When the final line route is determined by the KCC, we will contact landowners who have property on the final line route and begin discussions with them about purchasing the easements necessary to build the line. This will allow property owners to continue most uses of their property. We provide one-time payments, typically negotiated up-front, based on determination of the market property values in the local area. We will work respectfully with landowners throughout the siting, design, and construction process to minimize impacts to their properties. It is our goal to reach mutually beneficial negotiated agreements with all landowners.

Exhibit KBH – 3, Sheet 6

Frequently asked questions.

What will the line look like?

The types of structures to be used on this project have not been determined. First the route has to be identified because it will influence which structure types and height will be used. The structures will likely be fabricated from steel. The structure height will vary based on terrain, clearance to the ground, and structure spacing; but are likely to range between 120 and 160 feet. The span lengths between structures will also vary but will likely be between 800 to 1,500 feet, with an average span around 900 feet.

Who will build the lines and manage the construction?

Westar will provide project management services and coordination for the engineering and construction of the project.

Who approved this project?

The project has been reviewed and approved by the Southwest Power Pool (SPP), the organization designated by the Federal Energy Regulatory Commission (FERC) to oversee the high-voltage grid reliability in the multi-state region that includes Kansas. Westar will construct, own and operate the new transmission line.

How much will this project cost?

Although the cost will be reevaluated when the preferred route is determined, the initial estimated investment for the project is about $58 million.

Who will pay for the transmission line and facilities?

Because the line will benefit the entire region in terms of improved reliability and increased efficiency, the cost will be recovered from all customers in the Southwest Power Pool region, which includes Kansas, Oklahoma and parts of Nebraska, Texas, New Mexico, Arkansas and Missouri. The SPP oversees the tariff that is the basis for transmission charges to customers.

Why are you starting this process now if the line won't be finished until 2017?

A project of this size requires many years to permit, design, procure materials and construct. Almost all the major components will be custom built and require long lead times.

Key dates and timeline.

Fall 2014
Preliminary routing & community outreach

December 3-4, 2014
Public Open House events in Wamego

Q1 2015
Route application filed with the Kansas Corporation Commission

Q2 2015
KCC route approval anticipated

2015-2016
Right-of-way acquisition

2015-2016
Engineering design

2016-2017
Construction

2017
Project in service

What environmental impacts will be considered with the siting of this project?

The environment is an important factor when planning and designing transmission line projects. We work closely with appropriate organizations, including the Kansas Department of Wildlife, Parks and Tourism, the U.S. Fish and Wildlife Service and the Nature Conservancy from the beginning of a project to make sure any direct environmental impact is appropriately identified and addressed. We believe this kind of collaboration leads to developing a transmission line route that aligns with federal and state energy and environmental policy objectives. We adhere to all state and federal regulations to protect native plants, threatened or endangered species, wetlands, and water and air quality.

Westar Energy, Inc.
Westar is the largest electric energy provider in Kansas, dedicated to operating the best electric utility in the Midwest and providing quality service at below average prices. Headquartered in Topeka, Westar provides generation, transmission, and distribution to more than 687,000 customers in much of east and east-central Kansas. (westarenergy.com)

FOR MORE INFORMATION ON THIS PROJECT, CONTACT: JOHN ONSTEAD at (904) 571-9269

Westar Energy Jeffrey Energy Center to E. Manhattan Project
STAKEHOLDER QUESTIONNAIRE

This questionnaire is designed to help you identify issues related to the proposed routes for the Jeffrey Energy Center to E. Manhattan Transmission Line Project. Your answers will assist the study team in understanding public interests and concerns, and will allow the team to incorporate this information in the route selection process. Please complete this questionnaire **after** you have reviewed the information presented in the informational meeting today. Thank you for your input.

PROJECT NEED

1. Do you believe the need for this transmission line has been explained adequately?

   ______Yes ______No ______Uncertain

   If "No" or "uncertain," what additional information would be helpful to you?

   ____

   ____

LINE ROUTING CONSIDERATIONS

2. The routing of a transmission line involves many considerations. Please circle the number corresponding to the level of importance of that factor to you.

Factor	Not Important	....	Somewhat Important	....	Most Important
	Rating				
a) Maximize distance from residences	1	2	3	4	5
b) Maximize distance from businesses	1	2	3	4	5
c) Maximize distance from public facilities (e.g., parks, schools, churches, cemeteries)	1	2	3	4	5
d) Maximize length along existing transmission lines	1	2	3	4	5
e) Maximize length along highways or other roads	1	2	3	4	5
f) Maintain reliable electric service	1	2	3	4	5
g) Minimize length through wetlands and number of stream / river crossings	1	2	3	4	5
h) Minimize length across tilled agricultural land	1	2	3	4	5
i) Maximize distance from center pivot irrigation systems	1	2	3	4	5
j) Minimize loss of trees	1	2	3	4	5
k) Minimize visibility of the line	1	2	3	4	5
l) Minimize total length of line (reducing the total cost)	1	2	3	4	5
m) Minimize length through grassland or pasture	1	2	3	4	5
n) Minimize impacts to archaeological and historic sites	1	2	3	4	5
o) Minimize distance through sensitive habitat areas	1	2	3	4	5

3. If you would like to comment further on any of the above factors, or identify any other factors or issues that you feel should be considered, please use the space below or a separate page to describe your comments.

   ____

   ____

Westar Energy

4. If you have a concern with, or a suggestion for, a particular transmission line route(s) shown on the display of potential routes, please indicate the route color number and describe your concern or suggestion.

Segment No.	Concern
________	________________________________
________	________________________________
________	________________________________

ADDITIONAL INFORMATION

5. Which of the following applies to your situation?

_______ a. Potential line route is near my home.

_______ b. Potential line route is near my farm or business.

_______ c. Not affected by potential route.

_______ d. Other, please specify ________________________________

6. Do you believe the public open house format and the information provided was helpful for your understanding of the project?

OPEN HOUSE FORMAT:	______ helpful	______ not helpful
INFORMATION PROVIDED:	______ helpful	______ not helpful
WESTAR STAFF HELPFUL:	______ helpful	______ not helpful

How can we improve this format to better inform and respond to you?

____

____

7. If you would like to know the results of this routing study, please enter your name and address below. (Names and addresses are considered confidential.)

Name: ________________________ Phone: ________________________

Address: ________________________________

____

ADDITIONAL COMMENTS OR QUESTIONS

____

____

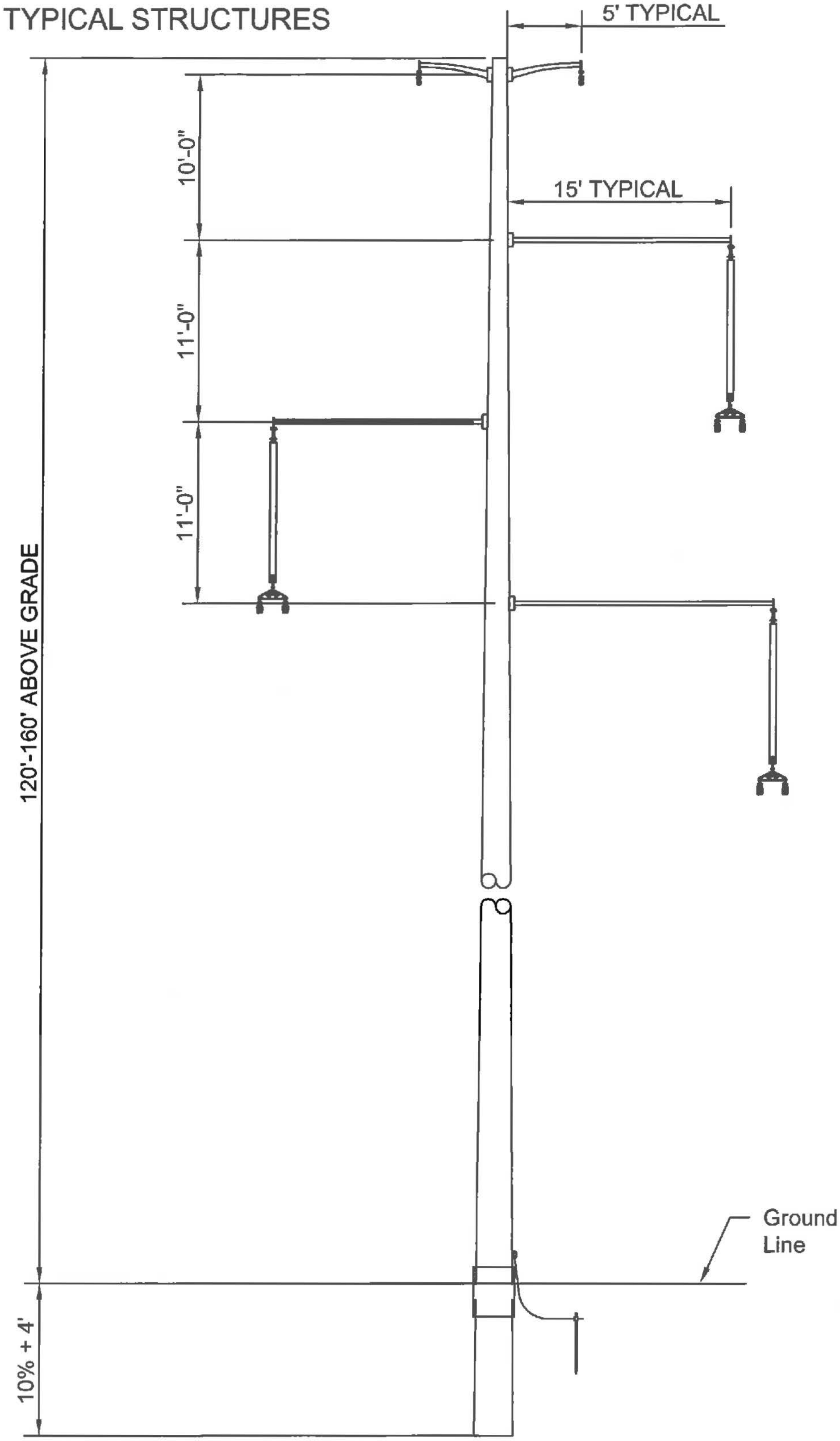
____

We encourage you to fill out and submit your questionnaire at the meeting. If you take the questionnaire with you, please mail completed questionnaires before December 18, 2014 to:

Westar Energy
JEC to E. Manhattan Transmission Line
Attn: Matt Armfield
PO Box 889
Topeka, KS 66601
Email: Matt.Armfield@westarenergy.com

Westar Energy

FOR JEC-E. MAN; TYPICAL STRUCTURES



Dwn by DCS Date 02/18/15 Appd. By ______ Date ______ Used on WR#

Westar Energy™

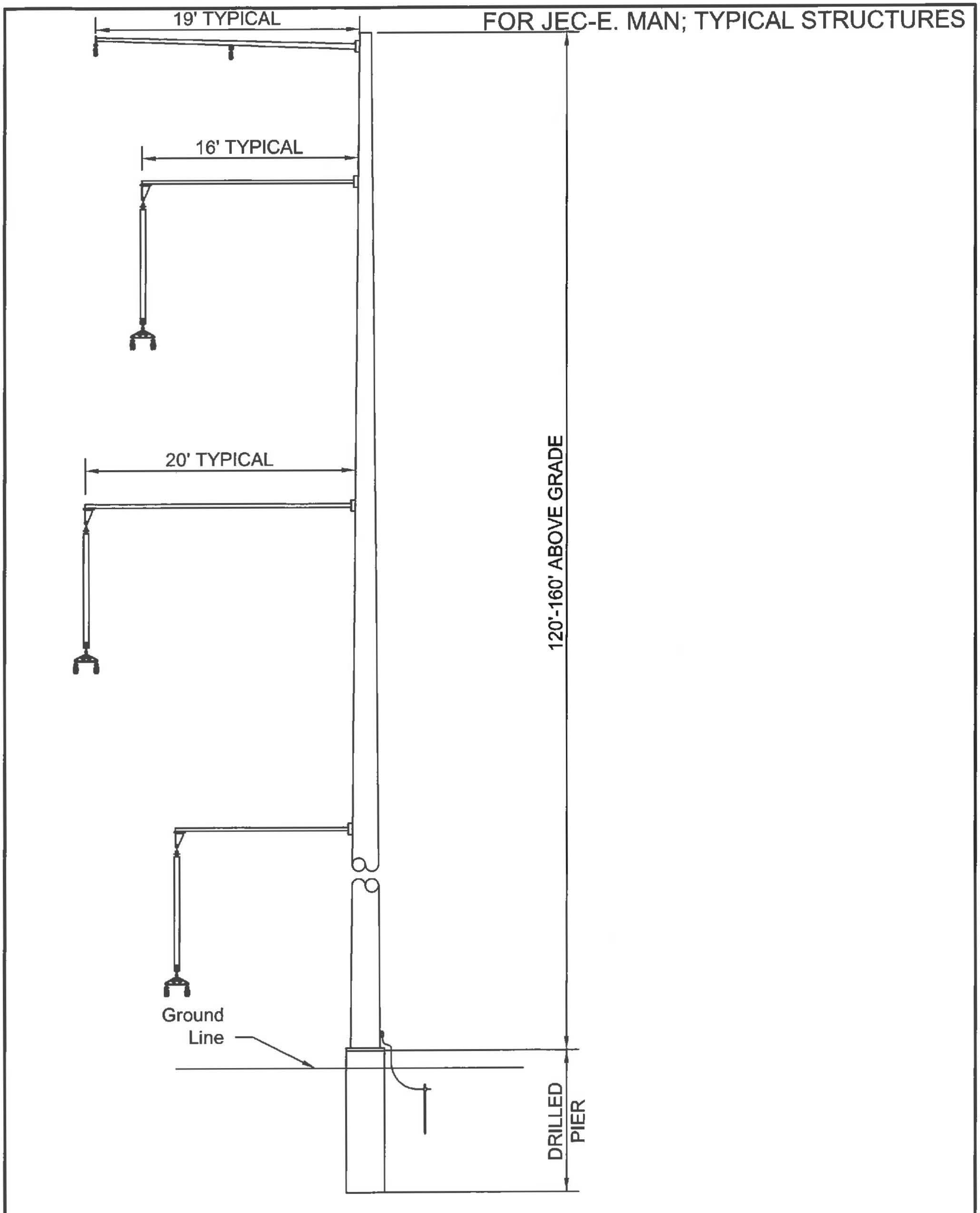
Title:

JEFFREY TO EAST MANHATTAN
TYPICAL STRUCTURES

Dwg. No.

EXHIBIT KBH-4

SHEET 1 OF 5



Dwn by DCS Date 02/18/15 Appd. By ______ Date ______ Used on WR#

Westar Energy™

Title:

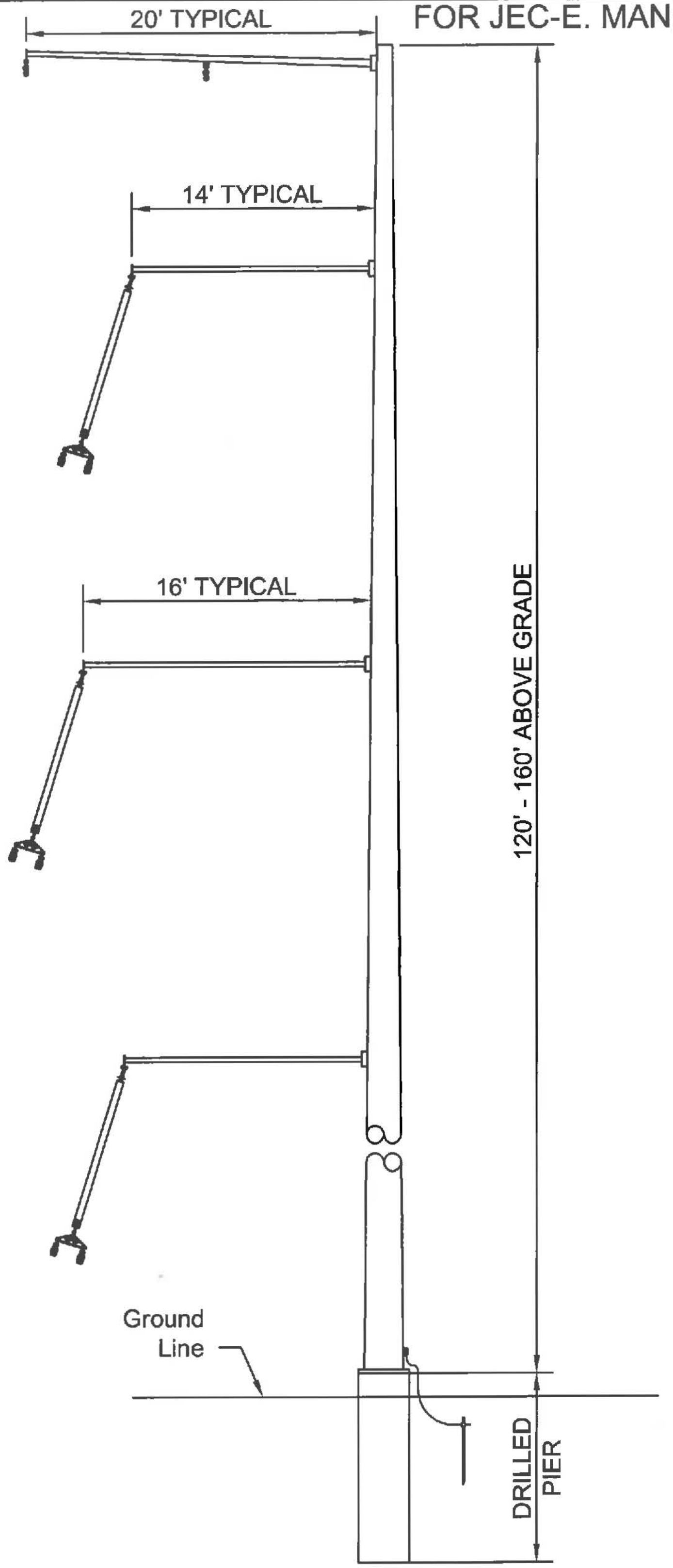
JEFFREY TO EAST MANHATTAN
TYPICAL STRUCTURES

Dwg. No.

EXHIBIT KBH-4

SHEET 2 OF 5

FOR JEC-E. MAN; TYPICAL STRUCTURES



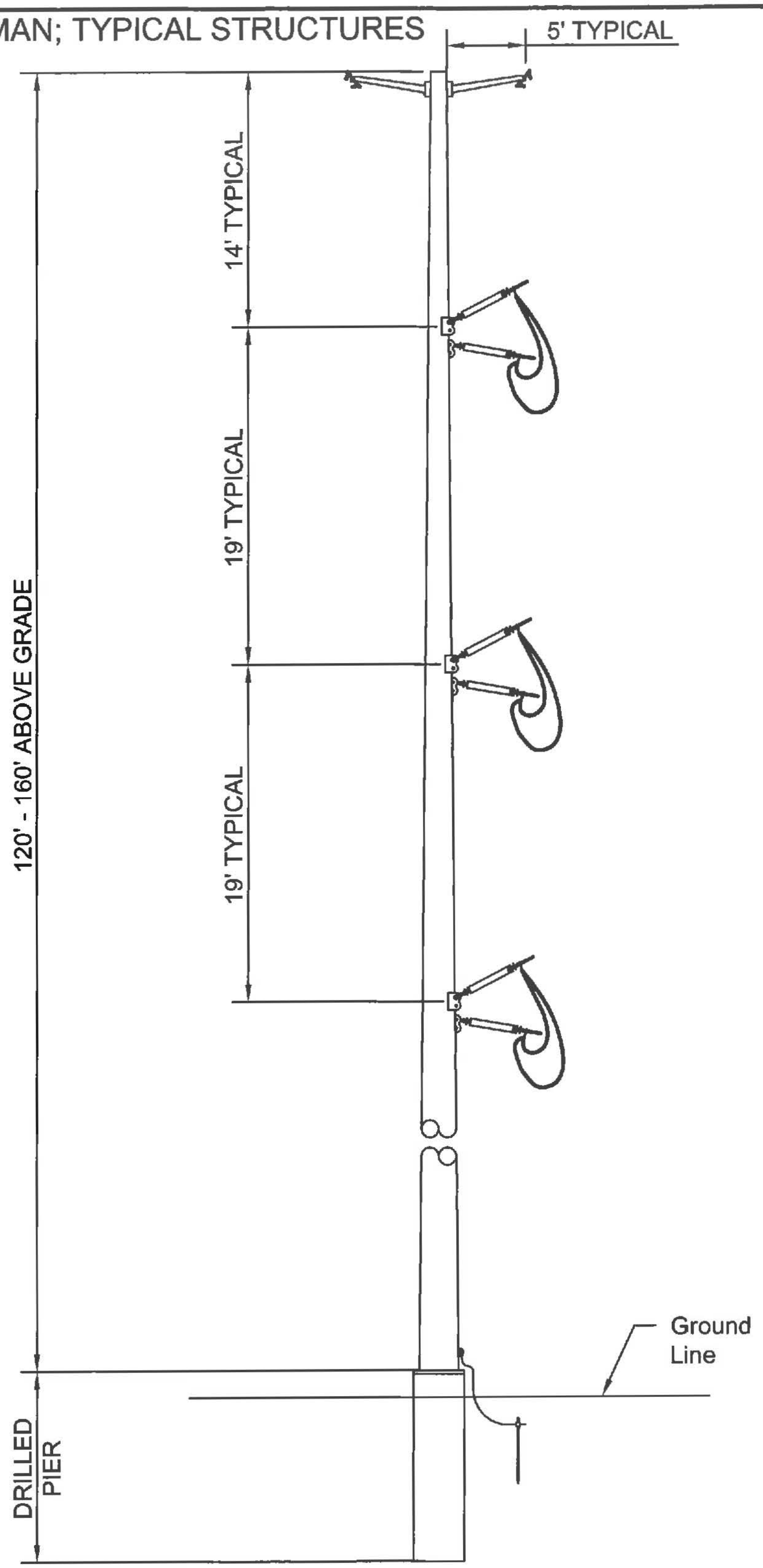
Used on WR# ______ Date ______ Appd. By ______ Date 02/18/15 Dwn by DCS

Westar Energy™

Westar Energy™	Title: JEFFREY TO EAST MANHATTAN TYPICAL STRUCTURES	Dwg. No. EXHIBIT KBH-4
		SHEET 3 OF 5

Dwn by DCS Date 02/18/15 Appd. By ______ Date ______ Used on WR# ______

FOR JEC-E. MAN; TYPICAL STRUCTURES



Westar Energy™

Title:	Dwg. No.
JEFFREY TO EAST MANHATTAN TYPICAL STRUCTURES	EXHIBIT KBH-4
	SHEET 4 OF 5

Dwn by DCS Date 02/18/15 Appd. By __________ Date __________ Used on WR#

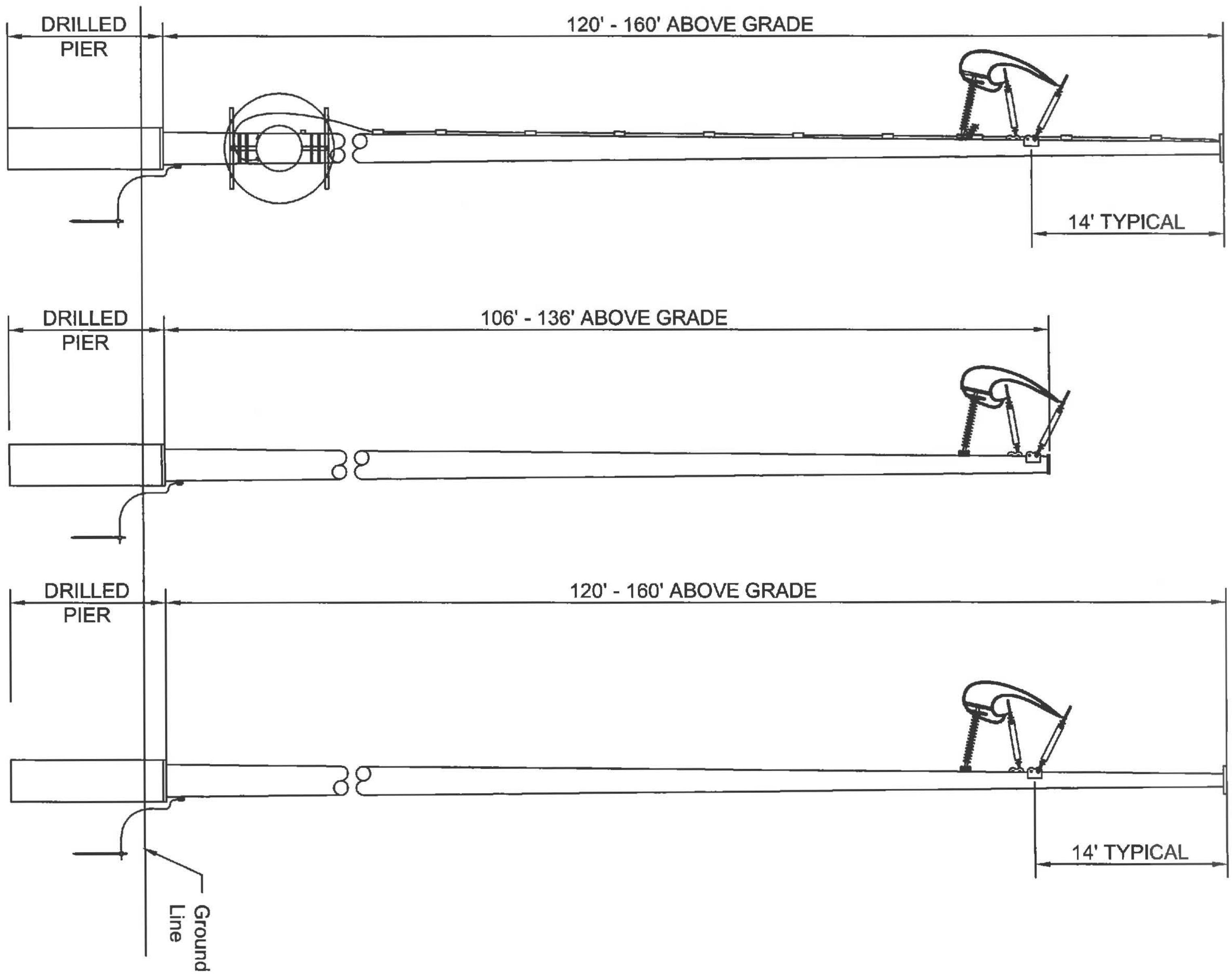
Westar Energy™

Title:
JEFFREY TO EAST MANHATTAN
TYPICAL STRUCTURES

Dwg. No.
EXHIBIT KBH-4

SHEET 5 OF 5

FOR JEC-E. MAN; TYPICAL STRUCTURES



BEFORE THE STATE CORPORATION COMMISSION

OF THE STATE OF KANSAS

DIRECT TESTIMONY

OF

JULIE A. LUX

WESTAR ENERGY

DOCKET NO. ________________

I. INTRODUCTION

Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.

A. Julie A. Lux, 818 South Kansas Avenue, Topeka, Kansas 66612.

Q. BY WHOM AND IN WHAT CAPACITY ARE YOU EMPLOYED?

A. I am employed by Westar Energy, Inc. (Westar) as Director, Regulatory Compliance.

Q. PLEASE DESCRIBE YOUR EDUCATIONAL BACKGROUND AND PROFESSIONAL EXPERIENCE.

A. I hold a B.B.A. in business management from Washburn University and an M.B.A. from Regis University. I am a Certified Internal Auditor and a Certified Fraud Examiner. I joined Westar in 2003 as an Internal Auditor. I was promoted to Manager, Corporate Compliance in June 2007 where I was responsible for coordinating compliance efforts for Sarbanes-Oxley regulations. In March 2011, I became the

Manager, NERC Reliability and was responsible for ensuring compliance with North American Electric Reliability Corporation (NERC) requirements. I began my current position as Director, Regulatory Compliance in November 2012. In this role, I direct a staff that is responsible for Westar's energy forecast, weather normalization, FERC docket filings, load research, and formula rates.

Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?

A. I will describe the cost recovery mechanism by which Westar expects to receive revenue for its proposed project.

Q. PLEASE DESCRIBE HOW THE SOUTHWEST POWER POOL (SPP) TARIFF COMPENSATES TRANSMISSION OWNERS FOR THEIR TRANSMISSION FACILITIES.

A. First, each Transmission Owner (TO) that has facilities under the SPP Open Access Transmission Tariff (OATT) must apply to the Federal Energy Regulatory Commission (FERC) to establish a revenue requirement. SPP takes these approved values and incorporates them into Attachment H of its OATT for revenue requirements. SPP then charges its transmission customers based upon these approved values. For example, transmission customers that have retail or wholesale load attached to Westar's transmission system are in the Westar pricing zone. Westar is also required to purchase transmission service from SPP to serve its retail customers.

Q. **HOW DOES A TRANSMISSION OWNER UPDATE ITS REVENUE REQUIREMENT?**

A. FERC allows a TO a choice in how it updates its revenue requirement. The TO may file a traditional rate case or implement a transmission formula rate. Beginning in 2005, Westar received approval from FERC to implement a formula rate approach in setting its transmission revenue requirements. The formula is designed to update Westar's revenue requirements annually. Use of the formula rate reduces the lag between completion of major projects and their inclusion in rates. Conversely, reductions in costs are also reflected in transmission rates to customers on a timelier basis.

Q. **PLEASE EXPLAIN HOW THESE COSTS ARE RECOVERED THROUGH THE SPP OATT.**

A. There are 17 pricing zones in the SPP. Each zone is defined by the primary TO that owns the transmission facilities in that zone. The transmission rates paid by a customer are based upon Schedules 7, 8, 9, and 11 of the SPP OATT which are calculated based upon the revenue requirements stated in Attachment H to the OATT. The specific charges to a transmission customer are determined based on the type of service and the location where the power is delivered or "sunk." The transmission rate charged to transmission customers consist of four components: 1) Existing Zonal Revenue Requirements; 2) Base Plan Zonal Revenue Requirements, 3) Base

Plan Regional Revenue Requirements, and 4) direct assigned costs. SPP determines the charges to each customer based upon the customer's transmission reservations and issues a bill to each customer. SPP then collects the revenue from each customer and distributes the money among the TOs pursuant to the terms of Attachment L of the OATT.

Q. **PLEASE DESCRIBE THE FOUR COMPONENTS THAT MAKE UP THE SPP TRANSMISSION RATES IN MORE DETAIL.**

A. For new or upgraded transmission facilities (transmission upgrades) required to meet new service requests from customers, the underlying premise for cost recovery in the SPP OATT is to directly assign the costs related to those transmission upgrades to the customer requiring the transmission upgrades.

Under certain circumstances, a customer may qualify for those costs to be rolled into the SPP OATT rates in accordance with the rules as described in Attachments J, Z1, and other areas of the SPP OATT (Base Plan Funding). In addition, any transmission upgrades that are required to meet various reliability criteria, or are identified has having regional benefits through the SPP study process (Attachment O) are also Base Plan Funded. The method of recovering the transmission costs which qualify for Base Plan Funding is described in Attachment J of the SPP OATT. The costs associated with Base Plan Funded Projects are allocated between costs collected from the customers in the zone where the upgrade is built (or host zone) and all customers in the SPP. Only facilities built after December 31, 2005, are qualified to be Base Plan Funded. A facility directed to be built by SPP between December 31, 2005, and June 19, 2010, has its costs allocated 33% to the entire SPP region and the remaining 67% allocated to the host zone.

Effective June 19, 2010, FERC authorized a change in the way that SPP allocates Base Plan Funded projects. FERC approved the use of a Highway/Byway cost allocation method. The revised cost allocation method allocates costs between customers across the entire SPP region and the customers in the host zone where the project was built based upon the nominal operating voltage of the project. The nominal operating voltage is the voltage SPP has directed the Network Upgrade to be built at. For projects SPP authorized to be built after June 19, 2010, with a nominal operating voltage at or above 300 kV are recovered 100% from the SPP region. Projects with a nominal operating voltage between 100 kV and 300 kV are recovered 33% regional and 67% from the host zone. Projects with nominal operating voltages below 100 kV are recovered 100% from the host zone's customers.

The first category, Existing Zonal Revenue Requirements, refers to the Revenue Requirements related to transmission facilities that were in service or required to be in service prior to December

31, 2005, or were required to be in service prior to joining the SPP if the TO joined after December 31, 2005. Any costs associated with these facilities are collected from service that sinks in the pricing zone where those facilities are located. The second category refers to the Base Plan Funded costs assigned to the host zone.

The third category includes those Base Plan Funded regional costs which are recovered from all customers taking transmission service under the SPP OATT. The total amount of Base Plan Funded regional revenue requirements is listed in Table 2 of Attachment H. These costs are allocated to each zone based on the load-ratio share of the zone in comparison to the SPP region.

The final category is direct assigned costs. These costs are charged directly to a customer if the total project cost of the Base Plan upgrades allocated to the customer exceeds certain limits in the SPP OATT or if the requested transmission service does not qualify for Base Plan Funding.

Q. **WHICH COST RECOVERY METHOD WILL APPLY TO THE EAST MANHATTAN TO JEFFREY ENERGY CENTER (JEC) PROJECT?**

A. As explained in the testimony of Kelly Harrison, the East Manhattan to JEC project is a base plan funded project. The notification to construct was issued after the approval of the change in Base Plan Funding cost allocation by FERC and instructs Westar to build this project to 345 kV standards. As a result, 100% of the costs associated with the East Manhattan to JEC project will be allocated regionally.

Q. WHAT PERCENTAGE OF THE COSTS FOR THE EAST MANHATTAN TO JEC PROJECT WILL BE ALLOCATED TO KANSAS CUSTOMERS?

A. Approximately 18% of the costs of the East Manhattan to JEC project will be allocated to all the pricing zones in Kansas when those costs are allocated regionally on a load-ratio share basis based upon the 2014 zonal peak demands. This amount will be added to the rates that SPP charges to Westar and other utilities in Kansas for transmission service. Specifically, 11.15% of the project cost will be allocated to customers in the Westar pricing zone. A spreadsheet showing this calculation is attached as Exhibit JAL-1.

Q. **HOW WILL THE COSTS RELATED TO THE EAST MANHATTAN TO JEC PROJECT AFFECT THE RATES PAID BY WESTAR'S RETAIL CUSTOMERS?**

A. For Westar's retail customers, the amount paid by Westar to SPP for transmission service is recovered through the transmission delivery charge (TDC). As explained by Mr. Harrison, Westar estimates that its portion of the proposed project will cost approximately $58.3 million and will be in service in 2017. The cost to customers will be the highest the first year the project is in service and will decline over time. Based on the cost estimate provided by Mr. Harrison, the impact to an average residential customer using 1000 kWh/month will peak at $0.65 per year in 2017 and decline by approximately 2.5% per year thereafter due to depreciation. A spreadsheet showing the calculation of the initial cost to customers is attached hereto as Exhibit JAL-2. These calculations do not take into account any benefits or other cost reductions that may be produced by having the transmission facilities built.

Q. THANK YOU.

Exhibit JAL-1
Southwest Power Pool, Inc.
Regional and Zonal Transmission System Peak Loads (MW)
Calendar Year 2014

Zone	Total Peak Load (MW)	12 Month Avg. Peak Load (MW)	Load Ratio Share	% KS Load	KS Alloc
CSWS (AEP)	100,793.00	8,399.42	22.7309%	0.0%	0.00%
EDE	11,544.00	962.00	2.6034%	5.0%	0.13%
GMO	18,616.39	1,551.37	4.1984%	0.0%	0.00%
GRDA	9,220.00	768.33	2.0793%	0.0%	0.00%
KCPL	34,477.30	2,873.11	7.7753%	45.0%	3.50%
LES	9,174.00	764.50	2.0689%	0.0%	0.00%
MKEC	6,411.00	534.25	1.4458%	100.0%	1.45%
MIDW	3,805.40	317.12	0.8582%	100.0%	0.86%
NPPD	29,159.67	2,429.97	6.5761%	0.0%	0.00%
OKGE	63,720.68	5,310.06	14.3703%	0.0%	0.00%
OPPD	23,570.00	1,964.17	5.3155%	0.0%	0.00%
SECI	4,471.00	372.58	1.0083%	100.0%	1.01%
SPRM	6,622.00	551.83	1.4934%	0.0%	0.00%
SPS	55,877.95	4,656.50	12.6016%	0.0%	0.00%
WFEC	16,517.00	1,376.42	3.7249%	0.0%	0.00%
Westar	49,439.00	4,119.92	11.1495%	100.0%	11.15%
Total		36,951.53	100.0000%		18.09%

Exhibit JAL-2
Estimated Cost Impact on Retail Energy Cost

Estimated Cost[1]	$	58,317,000.00
2015 NPCC[2]		19.96%
First Year ATRR[3]	$	11,640,073.20
Regional Allocation[4]		11.15%
Westar's Retail LRS[5]		83.28%
2014 Retail Energy[6]		19,813,625,143
Cost per 1000 kWh/mo[7]		0.05
Cost per Year[8]	$	0.65

Notes:

[1] Estimated Cost of Westar's portion of the East Manhattan to JEC line
[2] NPCC = Net Plant Carrying Charge as calculated in the 2015 Transmission Formula Rate
[3] Annual Transmission Revenue Requirement (ATRR) = Estimated Cost * 2015 NPCC
[4] From Exhibit JAL-1, Regional Allocation of costs to Westar's Zone
[5] From Westar's 2015 TDC filing
[6] From Westar's 2015 TDC filing
[7] First Year ATRR * Regional Allocation * Westar's Retail LRS / 2014 Retail Energy * 1000
[8] Cost per 1000 kWh/mo * 12

DIRECT TESTIMONY

OF

KRISTI WISE

ON BEHALF OF

WESTAR ENERGY

FEBRUARY 20, 2015

I. INTRODUCTION

Q: PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.

A: Kristi K. Wise. 9400 Ward Parkway, Kansas City, Missouri 64114.

Q: BY WHOM AND IN WHAT CAPACITY ARE YOU EMPLOYED?

A: I am employed by Burns & McDonnell, Engineering Company, Inc. (BMcD) as a Project Manager in the Environmental Studies and Permitting Global Practice. In this position, I am responsible for managing and directing the completion of activities related to routing, public involvement, permitting, and right-of-way for projects for various electric utility clients, such as Westar. For Westar's Jeffrey Energy Center (JEC) – East Manhattan Project (the "JEC to E. Manhattan Line"), I directed the completion of routing and public involvement activities.

Q: PLEASE DESCRIBE YOUR EDUCATIONAL BACKGROUND AND PROFESSIONAL EXPERIENCE.

A: I received a M.S. Degree in Fisheries and Wildlife from Utah State University in March, 1996 and a B.S. Degree in Wildlife Biology from Kansas State University in December, 1992. I worked for the Missouri Department of Conservation as an Urban Deer Biologist in the suburbs of St. Louis, Missouri from 1996 to 1999 and joined Burns & McDonnell in May, 1999 as an Assistant Environmental Scientist. I was promoted to Project Manager in 2001, and I managed routing, public involvement, and permitting activities for high-voltage transmission line projects for various clients across the country. I first performed these services for Westar on the Reno to Summit 345 kV transmission line project beginning in 2006 and I have worked with Westar on an additional 14 routing projects between 2006 and 2014. I am a certified Project Management Professional (PMP).

Q: HAVE YOU PROVIDED TESTIMONY IN PRIOR REGULATORY PROCEEDINGS?

A: Yes, I have. Specifically, I appeared before the KCC in Docket Nos. 11-PWTE-600-MIS testifying on transmission line routing. I have also prepared written testimony and appeared before the North Carolina Utilities Commission and the South Carolina Public Service Commission on behalf of Progress Energy Carolinas (now Duke Energy).

Q. On whose behalf are you testifying?

A. I am testifying on behalf of Westar Energy ("Westar").

Q: WHAT IS THE PURPOSE OF YOUR TESTIMONY?

A: The purpose of my testimony is to describe the process used to determine the preferred route for the new 230kV/345kV transmission line from JEC to Westar's existing East Manhattan Substation located near Manhattan, Kansas.

II. ROUTE SELECTION PROCESS

Q: DID WESTAR PROVIDE TRANSMISSION LINE ROUTING OBJECTIVES FOR YOU TO PURSUE IN CHOOSING PROPOSED ROUTES FOR THE TRANSMISSION LINE ROUTING STUDY?

A: Yes, Westar provided BMcD with the following routing objectives for this Project:

Provide technically and environmentally feasible proposed routes for the transmission line, broken into manageable segments. The proposed routes should be economical routes with minimal adverse social and environmental impacts. In general the proposed routes should: Maximize the distance of the line to residences, businesses, public facilities, parks, cemeteries, and communication towers; avoid interference with center pivot irrigation systems; where possible and when practical, parallel existing utilities, roads or railroads, accounting for existing rights of way and potential increased construction costs; avoid wetlands, riparian areas, conservation lands, and protected species and their habitats for both the transmission line corridor and access for construction & maintenance; avoid placing the line directly over tanks and oil, gas, or water wells; maintain a reasonable overall route length with as few angles as possible to minimize costs; and avoid FAA controlled areas which would restrict structure height or proximity to navigational aids.

Q: PLEASE DESCRIBE THE PROCESS USED TO SELECT THE ALTERNATIVE OR POTENTIAL ROUTES FOR THE TRANSMISSION LINE.

A: Burns & McDonnell was engaged by Westar to assist with the transmission line siting process. Burns & McDonnell's routing report is attached to my testimony as Exhibit BMcD-1. Burns & McDonnell was tasked with gathering and evaluating information regarding land uses, environmental concerns, and historic, cultural and other criteria considered pertinent to the construction of an overhead electric transmission line.

In Exhibit BMcD-1, Figure 2-1 shows the regional area and Figure 2-2 shows the study area for the proposed project. The project study area encompasses approximately 209 square miles in central Kansas. After establishing the study area, the objective was to identify economically feasible routes that connected the two endpoints, while avoiding or minimizing impacts to both social and natural resources. Alternative routes were identified that would connect JEC to the East Manhattan Substation.

To determine community values relative to the proposed project, the route selection process included two forms of public input. The first outreach effort included letters to State, Federal, and local agencies to provide input on threatened and endangered species, wetlands, wildlife resources, and other potential permitting issues. Federal agencies contacted included the U.S. Army Corps of Engineers (USACE), U.S. Fish and Wildlife Service (USFWS), Environmental Protection Agency (EPA), the Federal Aviation Administration (FAA), and the Natural Resources Conservation Service (NRCS). State agencies contacted included the Kansas Biological Survey (KBS), Kansas Department of Health and Environment (KDHE), State Historic Preservation Office (SHPO) at the Kansas Historical Society (KHS), Department of Agriculture (KDA), Kansas Department of Transportation (KDOT), and the Kansas Department of Wildlife, Parks, and Tourism (KDWPT). The Nature Conservancy (TNC), a private conservation organization working to protect ecologically important lands and waters, was also contacted. Letters were also sent to the Pottawatomie and Riley Counties Planning and Zoning departments, as well as to the mayor, manager, and city engineer for the City of Manhattan. A summary of the responses received is included in Chapter 4 of Exhibit BMcD-1. A sample request letter and the actual responses received from the agencies are provided in Appendix D of Exhibit BMcD-1.

In addition, two public information meetings were held by Westar in Wamego, within the study area. Input from residents and public officials helped the project team identify the appropriate factors to use in the route evaluation. The intent of the public participation program was to provide the potentially affected landowners near the alternative routes with an understanding of the need for the project, the decision-making process used to select the preferred route, and a forum to voice concerns about the proposed project.

Following the public comment period, Burns & McDonnell then quantified the impacts along the proposed routes and used this quantitative data, the public and agency input, and engineering factors to evaluate the alternatives and to assist Westar with the selection of a preferred route for the proposed transmission line.

Q: DID YOU RECEIVE FEEDBACK FROM THE STATE AND FEDERAL AGENCIES?

A: Yes, we did, and we used that feedback in our route selection work. For example, USFWS stated a preference for the use of existing corridors, specifically the existing 230kV transmission line corridor being replaced, to avoid further habitat disturbance and fragmentation. The preferred route would be parallel to the existing 230kV right-of-way for most of its length. USFWS also mentioned the possible presence of two federally listed species in the study area, the least tern and the piping plover. These species are seasonal migrants, and USFWS requested that caution be taken during routing and construction to avoid listed species habitat. The northern long-eared bat and its habitat were also mentioned in the USFWS response letter due to the probable listing of the species in spring 2015. It was requested that care be taken to avoid any northern long-eared bat habitat during route evaluation, mainly by avoiding tree clearing where possible. USFWS also recommended incorporating guidelines to minimize the electrocution threat to large birds of prey from electrical lines and requested that Westar minimize the spread of invasive species and avoid impacts to nesting migratory birds as well.

The USACE identified the need for the proposed project to cross the Kansas River, which would require a Section 10 permit under the Rivers and Harbors Act. USACE stated that Section 404 permit authorization under the Clean Water Act may be required if wetland areas are trenched or static plowed during construction, or if any temporary crossings, access pads, or structures were to be placed within a stream or wetland. The spanning of or directional boring under wetlands and streams may not require a permit.

The NRCS responded by email and commented on its jurisdiction over the Farmland Policy Protection Act (FPPA), which regulates the conversion of farmland to nonagricultural use. In its response, the NRCS mentioned a NRCS-CPA-106 form that needed to be submitted once a preferred route was selected, and recommended that Westar consider avoiding the conversion of farmland where possible.

In its response, the FAA noted that the project may require notice and airspace review under the Federal Aviation Regulation Part 77, Objects Affecting Navigable Airspace. FAA recommended use of its “Notice Criteria Tool,” found online, to determine if the project would require formal filing.

The Kansas SHPO recommended having a professional archeologist conduct background research of the study area to identify potential survey areas. The Kansas SHPO also stated that any proposed route would likely involve moderate archeological potential due to the presence of the Big Blue River, the Kansas River, and Rock Creek valleys within the study area. The Kansas SHPO commented that Section 106 of the National Historic Preservation Act could apply to the proposed project if any Federal funding, permitting, or other Federal connection were involved.

KDOT stated that any transmission line crossing road right-of-way needs to be in compliance with the Utility Accommodation Policy, and that permits will be required prior to the start of construction. KDOT also requested that the preferred route not cross over bridge abutments and be a minimum of 100 feet away from said abutments.

KDWPT requested figures showing the section, township, and ranges for the project study area. That figure was created and sent on July 29, 2014. KDWPT used that information to review the proposed study area for potential impacts to current State-listed threatened or endangered species, species of concern, species in need of conservation, and public recreation areas under KDWPT authority. KDWPT review identified the land at the Jeffrey Energy Center to be possible nesting habitat for the State-listed least tern, though it stated that the project was not likely to impact the species. KDWPT also provided a list of recommendations for the project, including the use of existing corridors, the replanting of disturbed grasslands with native forbs and grasses, the installation of perch guards on poles with repeat avian mortality, and the avoidance of wetlands, native vegetation, timberland, and encroachment in floodplains.

KDA sent an Agency Review Transmittal form granting clearance for the project. It also mailed a response letter that noted that the project will likely not require any KDA permitting as long as no construction activities occur in the floodplain or floodway of the Kansas River or any stream courses encountered.

KDHE had no objections to the proposal and recommended that clearance of the project be granted. KDHE Bureau of Water stated that a National Pollutant Discharge Elimination System (NPDES) permit application for storm water runoff resulting from construction activities would be required if the construction activity disturbed greater than or equal to one acre of land.

KBS requested GIS shapefiles of the project study area to assist in its review. These files were sent August 5, 2014. KBS response indicated that it reviewed the KNHI database and found that part of the study area falls within the range of the greater prairie chicken.

KBS recommended avoiding prairie chicken habitat areas as much as possible because greater prairie chickens do not tolerate tall, vertical structures in their habitats and have been known to avoid nesting in areas with transmission towers and wind turbines.

During its review, TNC noted that the area north of the existing 230kV transmission line being replaced appeared to be native grasslands while the area to the south was more agricultural or developed. TNC requested that Westar use areas within the study area that have already been disturbed. TNC also recommended the use of existing transmission line corridors where possible to avoid further habitat fragmentation.

The Pottawatomie County zoning office responded by telephone primarily. The zoning office discussed the large amount of planned residential and commercial development in the U.S. Highway 24 corridor between Manhattan and Wamego, as well as several residential subdivisions built along the existing Westar rights-of-way throughout the study area, though the office indicated that most of the heavy development would occur west of State Highway 99. The office then sent maps of the study area, depicting lands that had been platted for development. This information was used during the route selection process.

The Riley County Planning and Development office noted that all utility service wires and poles are exempt from Riley County Zoning Regulations unless they are erected in a 1 percent Annual Chance floodplain. The Riley County Planning and Development office found no other issue with the proposed project.

Q: WHERE YOU ABLE TO IDENTIFY A ROUTE THAT AVOIDED ALL IMPACTS?

A: It was not possible to find a route that avoided all impacts. Many of the alternative routes, or sometimes called potential routes, were located along existing transmission line corridors to minimize impacts to the local environment as much as possible. In some cases, residences that are near the existing transmission lines may be closer to the new right-of-way, though it may be possible to adjust the route slightly to increase the distance from the homes when the line is surveyed and designed. Routes along new rights-of-way sometimes offer more flexibility to avoid homes than routes along existing lines. However, routes removed from the direct path between the two end points of each line, or routes that zigzag through the area, were not considered reasonable because of the significant cost resulting from the extra length and greater overall impacts.

Following the identification of alternative or potential routes, the routes were checked against recent aerial photography and reviewed in the field by driving publicly accessible roads near the alternative routes to ensure that we understood all land uses and that they were accurately mapped along each alternate route.

In addition, Burns & McDonnell quantified resources potentially impacted by the alternative routes using digital data in an ArcGIS system, and these potential impacts were then evaluated to compare impacts between routes and to select one of the least-impacting alternative routes (see Section 3.4.1 in Exhibit BMcD-1). Though there will still be impacts resulting from the construction of the new transmission line, the preferred route would have low impacts by comparison to the other routes evaluated.

Q: WHAT WERE THE ALTERNATIVE OR POTENTIAL ROUTES THAT WERE OFFERED TO THE PUBLIC FOR COMMENT?

A: Figure 3-1 in Exhibit BMcD-1 is a map of the alternative routes for which we sought comment from the public. To help obtain feedback specific to each landowner, each route was broken into a number of segments. This allowed each landowner to identify concerns he/she had with a particular segment of an alternative route. The alternative routes consist of individual segments that may be combined in different arrangements to form a continuous path from the JEC Substation to the East Manhattan Substation. Each segment begins and ends at an intersection with one or more other segments. All the alternative routes for JEC to E. Manhattan and their components are shown in Figure 3-1 of Exhibit BMcD-1. A total of 55 segments were identified that combine to form 5,304 different alternative routes (Figure 3-1 and Appendix C in Exhibit BMcD-1). The alternative routes shown in Figure 3-1 were shown to the public during two open houses held in early December in Wamego, Kansas.

Q: HOW WERE THE LANDOWNERS IDENTIFIED ALONG THE ALTERNATIVE OR POTENTIAL ROUTES SO THEY COULD BE NOTIFIED ON WESTAR'S INTENT TO CONSTRUCT A NEW TRANSMISSION LINE?

A: Once the alternative or potential routes were finalized, we used property ownership data from each county to identify landowners within 1,000 feet of the centerlines of the entire alternative route network. The landowner information was derived from digital parcel and ownership data obtained from Pottawatomie and Riley Counties. Using this information, these landowners were sent an informational letter advising him/her that Westar was proposing to construct a new high-voltage line near his/her property and inviting each of them to the open houses. Westar identified the dates, times, and locations of the December open houses in the letter, and also mailed a small-scale map of the proposed route network with the letter. Copies of the form invitation letter are shown in Appendix E of Exhibit BMcD-1.

The alternative routes were then shown to the public by Westar at two open house meetings in early December, 2014 to provide residents of the area with information about the project and gather public input from area landowners on the alternative routes. Westar held these open forum informational open houses on December 3 and 4, 2014, at the Wamego Senior Center at 5th and Ash Streets in Wamego.

At each open house, Westar and Burns & McDonnell representatives provided information on the purpose and need for the project and alternative routes (shown on aerial photographs and maps of the project area, as well as on interactive computer stations on which landowners could record their concerns). We also provided information on the design and construction of the project, typical land requirements for the new line, and the process Westar will use to obtain easements. During these meetings, Westar collected information provided by the area landowners for consideration during the route selection process.

At these open houses, Westar representatives handed out the project fact sheets and questionnaires shown in Appendix E of Exhibit BMcD-1. Participants were encouraged to complete the questionnaire that solicited their input on the routing factors, the route locations, and issues of concern regarding the project. They were asked to return their questionnaires either at the open house or by mail shortly afterwards. A total of 209 responses were received either at the open houses or by mail. A detailed summary of the questionnaire results is presented in Chapter 5 of Exhibit BMcD-1.

Q: DID PUBLIC INPUT HAVE ANY BEARING ON THE SITING PROCESS?

A: Yes. The principal concerns documented by the public were proximity to residences, maintaining reliable electrical service, and maximizing length along existing transmission lines. Segments 8, 23, 25, and 32 were identified numerous times as segments of concern, primarily related to potential impacts to residences, agricultural lands, property values, and visual degradation. Minimizing length through wetlands and numbers of streams/rivers crossed, and minimizing length through grassland or pasture were ranked as issues of lesser importance by the public open house respondents.

The public input from the public open house questionnaires was used in the route comparison through the weighting of the routing factors. After receiving information from the public open houses, Burns & McDonnell tabulated the information provided on the questionnaire forms and recorded on the computer stations at the open houses. Representatives from Westar and Burns & McDonnell used this public input information to assign weights to the various routing factors. These weights were then used to calculate a score for each route, which reflected the impact of the alternative routes between the JEC and E. Manhattan Substations.

A quantitative analysis of land use data, public input, and engineering criteria was employed in the final evaluation of the route alternatives. This evaluation resulted in the selection of Westar's preferred route for the proposed line. The preferred route selected between JEC and E. Manhattan is illustrated in Figure 3-2 of Exhibit BMcD-1.

Q: WAS THERE AN OVERLYING THEME OR ISSUE THAT RESONATED WITH THE MAJORITY OF THE PUBLIC BASED ON THE FEEDBACK THAT WAS RECEIVED?

A: Yes. The majority of the public comments we received indicated a desire to keep the new transmission line near the existing line that needs to be replaced.

Q: PLEASE PROVIDE MORE DETAIL WITH RESPECT TO EVALUATING THE INPUT RECEIVED FROM MEMBERS OF THE PUBLIC.

A: Identification of alternative or potential routes was based on avoiding sensitive resources that may be adversely affected by the construction, maintenance, and operation of an electric transmission line. When identifying routes, the primary routing concerns were to maximize lengths along existing transmission lines, minimize proximity to residences, and minimize impacts to center pivot irrigation systems, cropland, and other land uses. Every effort was made to avoid having any houses or businesses located within the right-of-way required for the line. For new route segments that cross cultivated land and particularly areas employing center pivot irrigation systems, the objective was to follow the edge of roads, section lines or fields to minimize the impact on farming.

As discussed above, Burns & McDonnell and Westar established several criteria for evaluating the route alternatives (Section 3.4.1 of Exhibit BMcD-1). This team then determined the relative importance of each impact (see Table 3-4 in Exhibit BMcD-1). The team considered input received from the public in assessing the significance of the evaluation criteria. The team then assigned a weight to each evaluation criterion based upon the importance identified by the public and agency personnel, as well as on Westar's and Burns & McDonnell's experience with other transmission line projects and their impacts.

For example, the residential proximity score, which combined and weighted the impact, from high to low, to houses within 100, 200, and 300 feet of the centerline of the new line both not along and along an existing transmission line, was considered the greatest constraint, and was assigned a weight of 10.

Reliability of electric service was ranked second in importance by the public but this factor was not used explicitly in the scoring. A transmission line co-location desirability factor (length not along existing transmission lines) was ranked third in importance by the public (to maximize this length), so this was assigned a weight of 8. Visibility was ranked as the public's fourth area of concern, so a visibility rating was calculated for each route using a modified viewshed model that essentially takes into account terrain and the distance of the routes from homes and roads. This factor was assigned a weight of 9. Avoiding cultivated land was ranked fifth in importance by the public, so cultivated land crossings were assigned a weight of 6. The public ranked the presence of public facilities and businesses within 300 feet of the proposed line as sixth and eleventh, respectively, in importance. These factors were assigned weights of 2, because there are few businesses and public facilities near any routes. For example, there are only two public facilities located along any of the routes and only four businesses. Woodlands crossed by the new line was ranked seventh in importance by the public and assigned a weight of four, while length not along roads was ranked eighth by the public and assigned a weight of five. The public ranked the distance from center-pivot irrigation ninth, but this factor was not assigned a weight because all routes were designed to minimize impacts to the systems by spanning along their tangents or by avoiding the systems altogether. Total length was ranked tenth and assigned a weight of three. The public ranked many environmental impacts low, such as rare species polygons crossed (twelfth), cultural sites within 1,320 feet (thirteenth), streams/rivers crossed (fifteenth), and wetlands crossed (fifteenth). These factors were assigned slightly higher weights than reflected by the public's ranking due to the importance of avoiding impacts to these resources as part of the permitting required for the project. They were assigned weights of two, three, three, and four, respectively. Based on the rest of the rankings from the public questionnaires, Burns & McDonnell assigned a weight of one to open/pasture land crossed (ranked fourteenth by the public). Four other factors that were not ranked by the public were also used to evaluate the routes: heavy angles (an indicator of line cost) received a weight of one, length not along property lines was assigned a weight of five, and roads crossed was assigned a weight of two. The evaluation criteria and their assigned weights are listed in Table 3-4 of Exhibit BMcD-1.

Q: PLEASE DESCRIBE THE EVALUATION PROCESS FOR SELECTING THE PREFERRED ROUTE FOR THE TRANSMISSION LINE.

A: The route network between JEC and E. Manhattan consisted of 55 segments that could be combined to form 5,304 different routes. These route segments are illustrated in Figure 3-1 in Exhibit BMcD-1. The list of segments that make up each of the top-ranked routes is shown in Table 3-5 in Exhibit BMcD-1. The route data for these top routes is presented in Table 3-6 in Exhibit BMcD-1. Data for all 5,304 routes is presented in Appendix F of Exhibit BMcD-1.

Once totals were summed for each of the routing factors for the 5,304 alternative routes between the JEC and E. Manhattan Substations, Burns & McDonnell staff calculated a score based on the route's difference from the mean (or average) for all routes and the standard deviation for each factor. This statistical Z-score technique reflects the variability among the routes for a particular factor. A negative score indicates that the score for that route is lower than the mean for all the routes for that specific factor (e.g. shorter). A positive score represents values higher than the mean (e.g. longer). These "raw" scores were then multiplied by the weights developed using the public input from the questionnaires and then summed for all factors for each route. The resultant weighted scores for the top ranking routes for JEC to E. Manhattan are shown in Table 3-7 in Exhibit BMcD-1. The Z-score analysis allowed the routes to be screened so the lesser impacting routes could be identified for further evaluation. The route selection process included this systematic analysis of the alternatives, combined with an understanding of the circumstances in the study area and the non-quantifiable public input received. The weighted scores ranged 170.1 points, from a low of –57.2 (Route 2842) to a high of 112.9 (Route 5024). Table 3-7 in Exhibit BMcD-1 presents the weighted scores for the routes sorted from lowest to highest score. A lower score indicates fewer overall impacts, while higher scores typically indicate greater impacts.

The scores are not necessarily considered a definitive comparison of routes; rather, they are intended to provide a useful index of the relative overall impact associated with the alternatives. Typically, alternatives with scores within 10 percent of the top score are determined to warrant closer evaluation. In this case, that includes the top 39 routes. The point of this methodology is to narrow the analysis to a few routes that could then be evaluated further using the route data to make a final recommendation for a preferred route.

Q: WHICH ROUTE WAS SELECTED AS THE PREFERRED ROUTE FOR THE TRANSMISSION LINE?

A: With the exception of some deviations to reach the JEC property area, nearly all the top-scoring 1,200 routes were substantially parallel to the existing line, either on the north or south side, with some short deviations to avoid clusters of homes and other constraints. As a result, there are only slight differences between many of the routes, including the top ranked (less than three points separate the top ten routes). The top ten scoring routes differed only in a few segment options along the existing line. After a careful review of all the route data for the top routes, Route 2828 (ranked sixth) was selected as the preferred route. Referring to Figure 3-5 in Exhibit BMcD-1, the components of Route 2828 are Segments 2, 4, 3, 6, 10, 15, 23, 26, 33, 37, 42, 49, 53, and 54.

The only difference between the top-scoring route (Route 2842) and the preferred route (Route 2828) is the use of Segment 26 along Route 2842 instead of Segments 27, 28, and 31 along Preferred Route 2828. These segments occur along the existing transmission line north of Louisville. Segment 26 remains on the north side of the existing 230kV and 345kV transmission lines in that location, angles north, then turns back east around the Louisville cemetery, which abuts the existing 230kV right-of-way. The majority of the Louisville Township Cemetery property is along the east side of Rock Port Road. This eastern portion contains signs, fences, gravestones, and cemetery walkways. Neither the centerline, nor the proposed right-of-way for Segment 26 would be on this eastern cemetery property. The cemetery also owns a parcel on the west side of Rock Port Road. This parcel does not currently appear to have been developed by the cemetery. Segment 26 crosses this parcel along the road for approximately 500 feet. It is not anticipated that any transmission structures would be placed within this parcel’s boundaries. Because there were only two public facilities close to any of the routes evaluated, this single public facility on Segment

26 caused associated routes to fall in rank. Because the developed portion of the cemetery would not be crossed, the route would be along the road and property boundary, and no structures would need to be placed within the undeveloped cemetery parcel, such a drop did not seem to be as significant as if the developed portion of the cemetery were crossed. In addition, using Segments 27, 28, and 31 instead of Segment 26 would require crossing the existing transmission corridor, containing 230kV and 345kV lines, twice. Crossing two transmission lines twice in less than 0.5-mile distance would create design and construction issues, as well as reliability concerns not present if Segment 26 were used. These were the primary reasons why Route 2828 was selected as the preferred route for this project over the other top six routes.

Route 2828 also scored well for most of the other impact factors, but the primary factors were length, length not along transmission lines, visibility, and residential proximity score. Length along existing transmission lines, visibility, and residential proximity were among the public's top four concerns, according to their questionnaire responses. Route 2828 would be approximately 27.5 miles long, which is only about 0.03 mile longer than the shortest possible route considered and ranked among the top 5 percent of the routes. Of this length, 23.9 miles (87%) would be along an existing transmission line. By having one of the shortest lengths and paralleling existing lines for the majority of its length, other land use impacts would be minimized as well, even though the preferred route did not have the lowest woodland, wetland, and cropland impacts. While following existing transmission lines reduces impacts to land uses crossed by co-locating facilities in adjacent corridors, the existing line constrains the location of the proposed route more than if the route were located along an all new right-of-way. When routing across new land, adjustments can be more easily made to minimize impacts to cropland, woodland, and wetlands.

The residential proximity score for the Preferred Route 2828 was also low (17 – within the top 25% of routes). The route would be within 300 feet of only two homes not already along an existing line and 8 homes already located along an existing line. This low residential impact rating, coupled with the majority of its length being along existing lines, where the visual impact would be reduced, resulted in a relatively low visual impact rating as well (232,947).

Preferred route 2828 begins at the E. Manhattan Substation, located just south of U.S. Highway 24/E. Poyntz Avenue in Manhattan, Kansas. Figure 3-2 of Exhibit BMcD-1 is a map showing the preferred route alignment overlaid on an aerial photo background.

Q: PLEASE DESCRIBE THE ENVIRONMENT IN WHICH THE LINE WAS SITED.

A: A description of the physiography, soils, climate, hydrological resources, biological resources, demographics, land uses, and cultural resources is included with my testimony as Section 2 of Exhibit BMcD-1.

Q: IS THERE ANY OTHER INFORMATION YOU WOULD LIKE TO PROVIDE?

A: Yes. Following the selection of the preferred route, modifications to the route were evaluated to further minimize impacts and improve the preferred route along the existing 230kV line. Westar was able to develop a plan to utilize the existing right-of-way on the west side of the preferred route from the Louisville cemetery to the East Manhattan Substation. In this area, the preferred route will either be on the same centerline or within approximately 50 feet of the centerline of the existing 230kV transmission line. The transmission line route on JEC property was modified to keep the new transmission line away from recently permitted landfill areas. The new route on JEC property is completely on property owned by Westar Energy.

Q: DO THE MODIFICATIONS TO THE PREFERRED ROUTE SUBSTANTIALLY CHANGE ANY OF THE RESULTS OF THE SITING STUDY?

A: No. The modifications do not substantially change the results of the siting study since the top 1,200 routes are near the existing transmission line corridor. The modifications improve the preferred route by rebuilding the west end of the new line on existing right-of-way which addresses many of the concerns expressed by the landowners and other stakeholders.

Q: WHERE IS THE MODIFIED PREFERRED ROUTE SHOWN THAT WESTAR IS SEEKING APPROVAL FROM THE KCC?

A: The final preferred route that Westar is seeking a KCC siting permit for is shown in Kelly Harrison's testimony Exhibit KBH-1.

Q: DOES THIS COMPLETE YOUR TESTIMONY?

A: Yes, it does.

Routing Study

for the

Jeffrey Energy Center to East Manhattan 345/230-kV Transmission Line Project

Westar Energy

Project No 79804

January 2015

Routing Study

for the

Jeffrey Energy Center to East Manhattan 345/230-kV Transmission Line Project

prepared for

Westar Energy

January 2015

Project No. 79804

prepared by

Burns & McDonnell Engineering Company, Inc.
Kansas City, Missouri

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1.0 INTRODUCTION

Westar Energy (Westar) proposes to replace an existing 230-kilovolt (kV) transmission line in Pottawatomie and Riley Counties in Kansas. The new line would connect Westar's Jeffrey Energy Center Substation (JEC), located approximately 5 miles north of Bellevue, Kansas, with the existing East Manhattan Substation, located on the east side of Manhattan, Kansas. When the new transmission line is put into service, the existing 230-kV line would be removed. The line being replaced was built in the early 1980s and is in need of upgrading. This upgrade would strengthen Westar's electric transmission system in the region.

Westar retained Burns & McDonnell Engineering Company, Inc. (Burns & McDonnell) to assist with the line routing, public involvement, and documentation for the project. The evaluation ultimately resulted in the identification of a preferred route that would provide an upgraded link between the two interconnection points. The project would include approximately 30 miles of new transmission line to connect the two substations.

This report contains a description of the existing environment in the study area (Chapter 2), a description of the route evaluation process and the rationale behind the selection of the preferred route (Chapter 3), a summary of agency comments (Chapter 4), and a summary of the public input received through questionnaires and computer stations provided at the public open houses (Chapter 5). Appendices include a list of soil types and characteristics within the study area (Appendix A); a list of threatened and endangered species potentially found in Pottawatomie and Riley Counties (Appendix B); detailed route maps (Appendix C); copies of agency correspondence (Appendix D); public involvement documentation, including landowner letters, a project fact sheet and a sample public questionnaire (Appendix E); and route analysis data (Appendix F).

2.0 EXISTING ENVIRONMENT

Included in this section is information regarding both natural and man-made resources in the study area that could influence the route for the proposed project. The study area is located in Pottawatomie and Riley Counties in Kansas. The overall study area encompasses approximately 209 square miles east of the City of Manhattan and north of the Kansas River. On the east side of the study area is the JEC Substation, located north of Bellevue, Kansas. On the west side of the study area is the East Manhattan Substation, located just south of U.S. Highway 24/E. Poyntz Avenue in Manhattan, Kansas. Figure 2-1 shows the study area in a regional view, and Figure 2-2 provides a more detailed view of the study area.

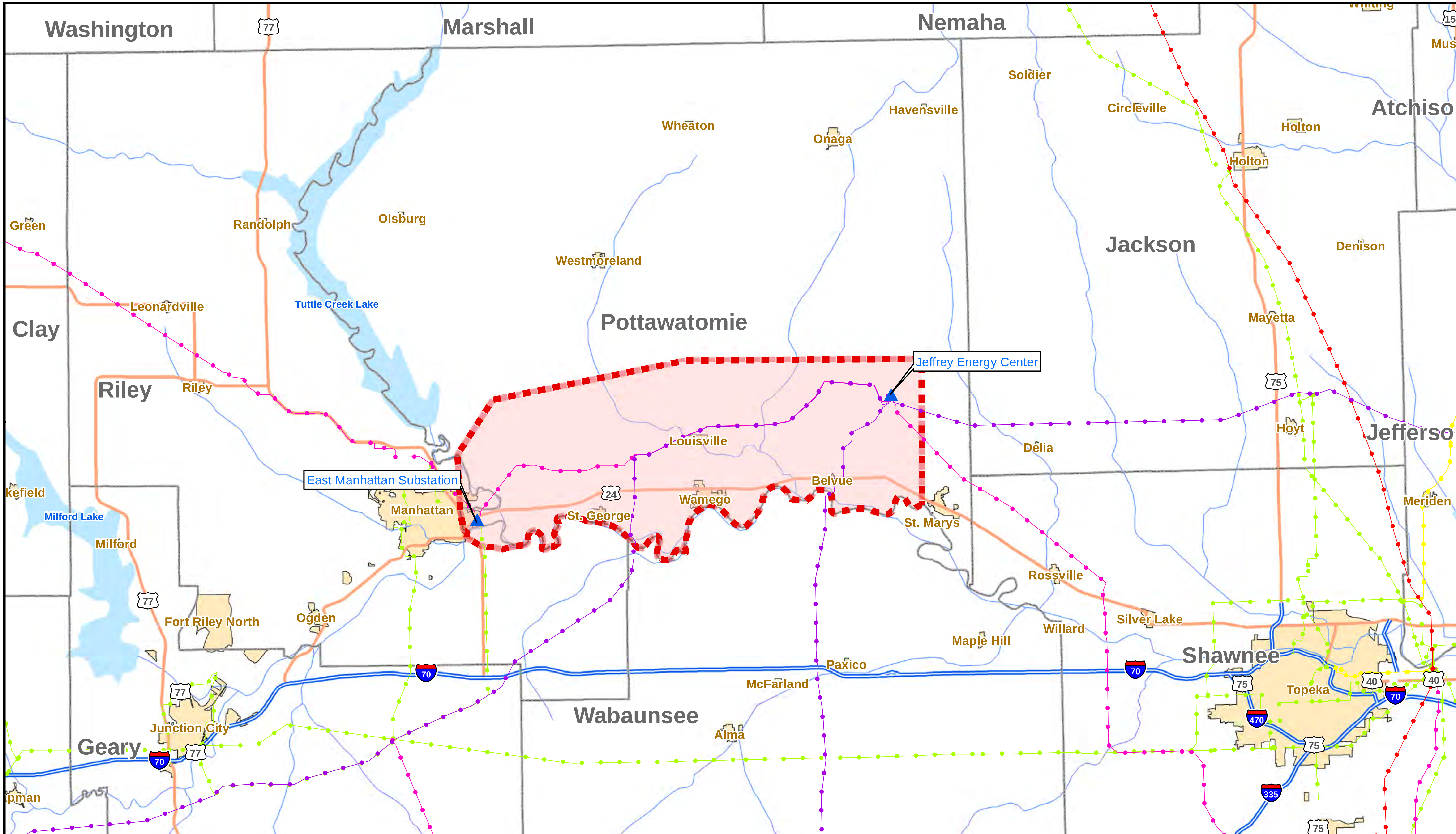
2.1 Physiography

Physiography describes the physical terrain, geology, and soils of the study area. The project study area is split between the Flint Hills Uplands and Glaciated physiographical regions. The Flint Hills Upland region is a large expanse of native grasslands known for its flint and limestone bedrock. Flint is less erodible than the surrounding limestone and, when weathered, the bedrock breaks down to create rocky soils. The Glaciated Region, found in the northern portion of the study area, resulted from glaciers retreating during climate change events and depositing large quartzite boulders in their wake. The glaciers also deposited a layer of silt sediment called loess. Loess is fine and easily distributed by wind or water. The study area is located in the northeastern portion of the Flint Hills Uplands region and the southwestern portion of the Glaciated Region (KGS 1997).

2.2 Soils

The project study area has a wide variety of soils. The most prominent soil type is the Clime-Sogn complex. This complex appears around the farthest east and west portions of the study area and is predominantly composed of silty clay. The Clime-Sogn complex occurs in areas with 3 to 20 percent slopes, and is well drained with a very low flood frequency. Also found near the eastern and western portions of the study area, the Tully silty clay loam is the second most prominent soil type. These soils are found in areas with 3 to 7 percent slopes and are mainly silty clay. Tully silty clay loam is also well drained and has little to no flooding frequency.

Major soil types found in the central portion of the study area include Morrill loam and Wymore silty clay loam. Both these soils have low flooding frequency, as they are well-drained and moderately well-drained, respectively. The Morrill complex is found in areas with 3 to 7 percent slopes, while the Wymore complex is found in less steeply sloped areas of 1 to 3 percent. Both soils are composed mostly of clay loam, but the Wymore complex contains more silt than the Morrill complex.



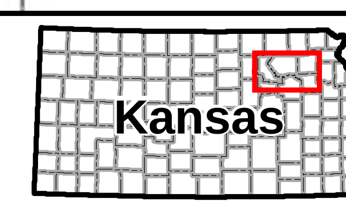
Legend

- Study Area
- Substation Endpoint
- Existing 69 kV Transmission Line
- Existing 115 kV Transmission Line
- Existing 230 kV Transmission Line
- Existing 345 kV Transmission Line
- Municipal Area
- County Boundary
- Interstate Highway
- U.S. Highway

NORTH

5 2.5 0 5

Miles



Locator Map

Figure 2-1
Westar Energy
Jeffrey Energy Center
to East Manhattan

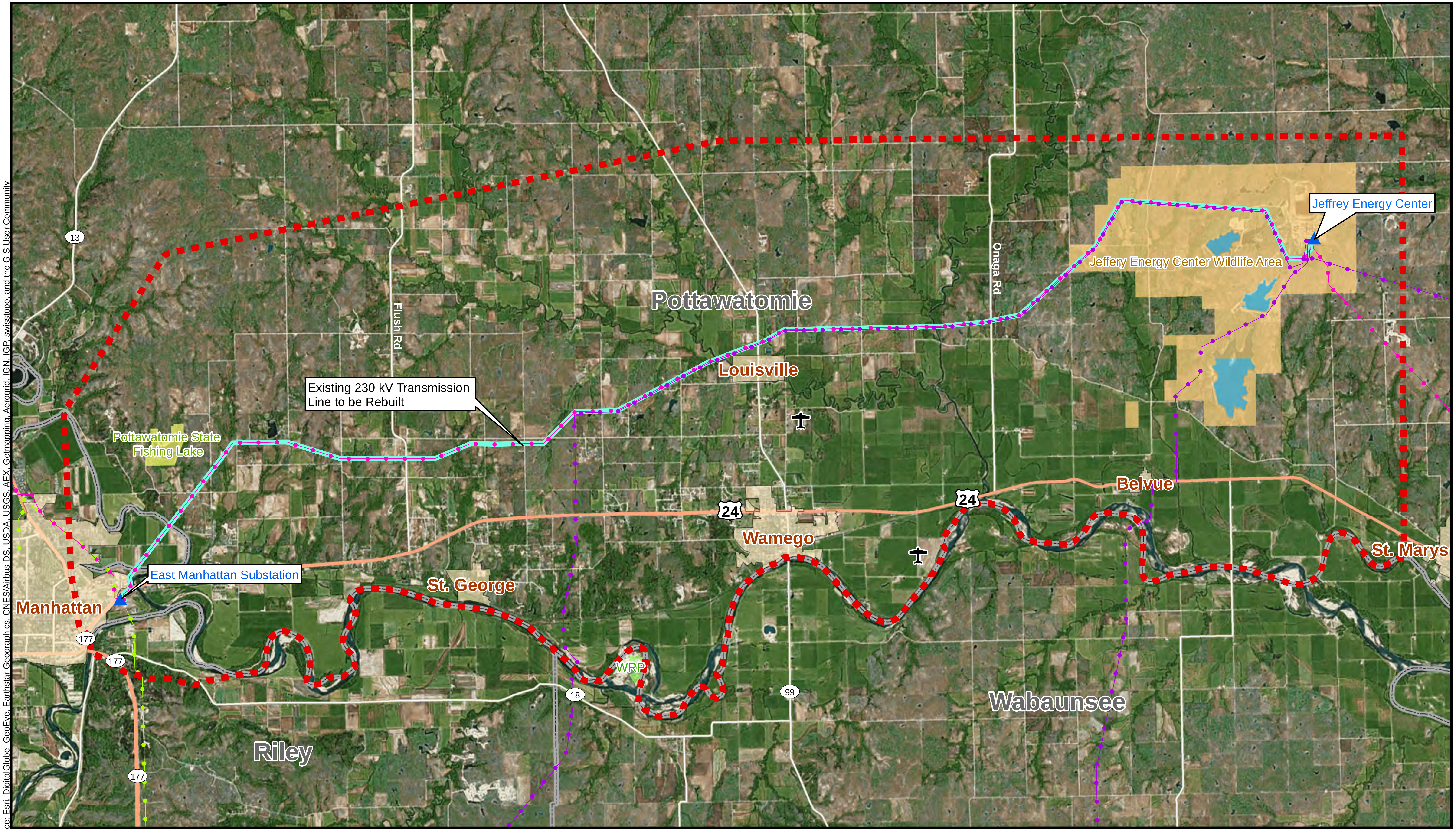
Regional Map

Issued: 1/22/2015

Source: ESRI, Westar Energy, Burns & McDonnell

Path: R:\Westar\79804_JEC_EManhattan\GIS\DataFiles\ArcDocs\ReportFigures\Figure2-1_RegionalMapFigure.mxd ebrenna 1/22/2015

Service Layer Credits: ESRI



NORTH

9,000 4,500 0 9,000

Scale in Feet

Legend

Study Area Boundary

Existing Substation

Railroad

Line to be Rebuilt

Existing Transmission Line

Existing 115 kV

Existing 230 kV

Existing 345 kV

Municipal Area

County Boundary

Jeffery Energy Center Lakes

Wetland Reserve Program

Kansas Fish and Wildlife

Kansas Parks and Recreation

Airport

U.S. Highway

Kansas

Locator Map

Figure 2-2
Westar Energy
Jeffrey Energy Center
to East Manhattan

Study Area

Source:USGS, ESRI, Westar Energy, Burns & McDonnell

Issued: 1/22/2015

Path: R:\Westar\79804_JEC_EManhattan\GIS\DataFiles\ArcDocs\ReportFigures\Figure2-2_StudyAreaFigure.mxd ebrenna 1/22/2015

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

A final soil type occurring with regularity within the project study area is the Kennebec silt loam. These soils are found along the rivers and streams crossing the study area, are composed mostly of silt loam, and experience occasional flooding. The Kennebec soils only occur on lands with 0 to 1 percent slopes.

Of the five major soil types in the study area, four are classified as Prime Farmland. Tully silty clay loam, Morrill loam, Wymore silty clay loam, and Kennebec complexes are all considered areas of Prime Farmland. The Clime-Sogn complex is classified as Farmland of Statewide Importance, which is similar to Prime Farmland but with minor shortcomings, such as less ability to store soil moisture or greater slopes (NRCS 2015). A list of all soil types in the study area is found in Appendix A.

2.3 Climate

The climate in the study area is characterized by large temperature variations. Winters are typically cold (average monthly minimum of 21.1 degrees Fahrenheit), and summers are warm (average monthly maximum of 85.6 degrees Fahrenheit). The area averages 42 days annually where the temperature reaches above 90 degrees Fahrenheit, and 2 days annually where the temperature is below zero. The total annual precipitation is approximately 32 inches, over 70 percent of which occurs from April through September. Wind direction in the study area is predominantly southerly, but can be northerly in winter months. Moderate droughts also occur on occasion (NOAA 2013).

2.4 Biological Resources

The following section is a description of the biological resources found in the study area. These include vegetation, wildlife, threatened and endangered plants and animals, and wetlands.

2.4.1 Hydrological Resources

The study area lies in the southwest portion of the Kansas-Lower Republican River Basin, which covers approximately 10,500 square miles and includes parts of 25 northeast Kansas counties (KWO 2009). The Kansas River forms the southern boundary of the study area. Larger Kansas River tributaries within the study area include Vermillion, Lost, and Deep Creeks. These three creeks drain into the Kansas River west of Wamego, Kansas. Another major hydrological system within the study area is the Elm Slough area. Elm Slough and Brush Creek occur northwest of Louisville, Kansas. The two waterways combine just outside of Louisville, becoming Rock Creek. Rock Creek then drains into Vermillion Creek, and then into the Kansas River. Other hydrological resources are limited to cattle ponds, water treatment lakes on JEC property, and unnamed creeks and drainage systems found throughout the study area (KGS 2012).

2.4.2 Vegetation

The study area is situated near the boundary of two ecological regions: the Prairie Parkland Province to the east and the Great Plaines Steppe Province to the west. This transitional area typically includes prairie plants with bands of deciduous trees (Bailey 1995). Vegetation in this area is typically dominated by prairie species with a mixture of tall and short grasses, prairie forbs, and scattered woodlands. In addition to the mixed grasslands typical of this province, vegetation specific to the study area also includes large areas of cultivated land with row crops. The few areas of woodlands present are associated with creeks and streams, found on field boundaries, or near residences.

2.4.2.1 Threatened and Endangered Plant Species

According to data maintained by the United States Fish and Wildlife Service (USFWS) and the Kansas Department of Wildlife, Parks, and Tourism (KDWPT), there are no Federal- or State- listed threatened or endangered plant species in either Pottawatomie or Riley Counties in Kansas. A desktop review of the study area was also conducted using Geographic Information Systems (GIS) data of Kansas rare species created from the Kansas Natural Heritage Inventory (KNHI) database. Based on this review, there are no records of occurrence for State- or federally listed plant species within the study area. In addition, the Kansas Biological Survey (KBS) was consulted early in the project planning process concerning threatened and endangered plant species in the study area. The KBS also reviewed the KNHI database and did not identify any records of State- or federally listed threatened or endangered plant species within the study area boundary. However, the agencies advised that absence of records does not always indicate that rare species do not occur in a specific area.

2.4.3 Wildlife

Burrowing mammals including ground squirrels, prairie dogs, pocket gophers, and badgers common to mixed grass prairie are likely to be found in the study area. Other mammals likely to occur within study area boundaries include black-tailed jackrabbit, cottontail rabbit, white-tailed deer, and coyote. Numerous bird species are found in the study area where suitable habitat is present. Bird species of the Prairie Parkland Province include: belted kingfisher, bank swallow, green-backed heron, and spotted sandpiper in the riverine forests; and horned lark, eastern meadow lark, and mourning dove in the uplands. Fish species, such as largemouth bass, white bass, and white crappie, are present in the Kansas River. These fish and others, such as channel catfish and various sunfish species, are likely found in ponds and waterways within the study area as well (Bailey 1995).

2.4.3.1 Threatened and Endangered Animal Species

The USFWS, KDWPT, and KBS were also consulted early in the project planning process concerning threatened and endangered animal species in the study area. In its response letter, the USFWS mentioned that the federally listed least tern (*Sterna antillarum*) and piping plover (*Charadrius melodus*) may occur as seasonal migrants within project boundaries. USFWS also recommended that the northern long-eared bat (*Myotis septentrionalis*) be considered during any project work because of its proposed listing status (final decision expected to be made in March 2015). The KDWPT also mentioned in its response letter the least tern, saying that the species has been known to nest at JEC, but that it is likely that the project would not disrupt least tern nesting habitat. The KBS identified seven records of the least tern in the project study area between 1996 and 2004, as well as four records of piping plover between 1997 and 2003.

There are also several aquatic species known to be present in both Pottawatomie and Riley Counties that are associated with the Kansas River and its tributaries, but none was specifically mentioned by USFWS, KDWPT, or KBS in their respective response materials.

A full list of animal species listed by the USFWS and the KDWPT as threatened or endangered and known to occur in Pottawatomie or Riley Counties can be found in Table 2-1. A list including species in need of conservation occurring in both counties can be found in Appendix B.

Table 2-1: Threatened and Endangered Species in Pottawatomie and Riley Counties

Common Name	Latin Name	State Status	Federal Status	County
American burying beetle	*Nicrophorus americanus*	Endangered	Endangered	Pottawatomie/ Riley
Eastern spotted skunk	*Spilogale putorius*	Threatened	--	Pottawatomie/ Riley
Eskimo curlew	*Numenius borealis*	Endangered	Endangered	Pottawatomie/ Riley
Least tern	*Sterna antillarum*	Endangered	Endangered	Pottawatomie/ Riley
Northern long-eared bat	*Myotis septentrionalis*	--	Proposed Endangered	Pottawatomie/ Riley
Piping plover	*Charadrius melodus*	Threatened	Threatened	Pottawatomie/ Riley
Plains minnow	*Hybognathus placitus*	Threatened	--	Pottawatomie/ Riley
Shoal chub	*Macrhybopsis hyostoma*	Threatened	--	Pottawatomie/ Riley
Silver chub	*Macrhybopsis storeriana*	Endangered	--	Pottawatomie/ Riley
Snowy plover	*Charadrius alexandrinus*	Threatened	--	Pottawatomie/ Riley
Sturgeon chub	*Macrhybopsis gelida*	Threatened	Candidate	Pottawatomie/ Riley
Topeka shiner	*Notropis topeka*	Threatened	Endangered	Pottawatomie/ Riley
Whooping crane	*Grus americana*	Endangered	Endangered	Riley

Source: Kansas Department of Wildlife, Parks, and Tourism 2015

2.4.4 Wetlands

Wetlands regulated by the U.S. Army Corps of Engineers (USACE) under Section 404 of the Clean Water Act are present in the study area. The predominant types of wetlands occurring are palustrine and are dispersed throughout the entire area. Palustrine wetlands include all non-tidal wetlands dominated by trees, shrubs, emergent plants, mosses or lichens, and can be grouped into the following categories: aquatic bed, emergent, forested, scrub-shrub, unconsolidated bottom, and unconsolidated shore. Aquatic bed, unconsolidated bottom, and unconsolidated shore occur in ponds and open water and are not used when evaluating wetland impacts (USFWS 1992).

Emergent wetlands are characterized by erect, rooted, herbaceous hydrophytes, excluding mosses and lichens. This vegetation is present for the majority of the growing season in most years. These wetlands are usually dominated by perennial plants. Scrub-shrub includes areas dominated by woody vegetation fewer than 6 meters (20 feet) tall. These species include true shrubs, young trees (saplings), and trees or shrubs that are small or stunted because of environmental conditions. Forested wetlands are characterized by woody vegetation that is 6 meters tall or taller (USFWS 1992).

Riverine wetlands include deep water habitats contained in natural or artificial channels. These channels periodically or continuously contain flowing water which forms a connecting link between two bodies of standing water. Riverine wetlands in the study area are associated with Vermillion Creek and the Kansas River.

2.5 Social and Community Resources

The following sections describe the built environment, as well as community resources and other social concerns within the study area. These include demographics, agriculture and other land uses, transportation, commercial and residential development areas, and cultural resources.

2.5.1 Demographics

The study area is located in Pottawatomie and Riley Counties in Kansas. Based on county parcel data and field visits, the study area is composed of both urban and rural environments. The southwestern corner of the study area is more developed around the City of Manhattan, as well as along the Highway 24 corridor following the southern study area boundary. Single family homes in this area are concentrated along the highways, as well as near the towns of St. George, Wamego, and Louisville, Kansas. Further to the north and east, the study area becomes more rural with land used for row crops, ranching, and other agricultural activities. Residential density is less in these parts of the study area compared to the more developed corridors mentioned above.

The 2013 population of Pottawatomie County was 22,691, up from 21,604 in 2010. That constitutes a 5 percent increase in 3 years. The 2013 population of Riley County was 75,394, which increased approximately 6 percent from 2010 (U.S. Census 2013). The percent increases in populations in both counties in the study area are greater than the percent increase in the population of the State of Kansas as a whole.

The median household income from 2009 to 2013 for Pottawatomie County was $56,854, slightly higher than the median for the State of Kansas as a whole. Riley County's median household income was $43,962 for the same time period, slightly less than that for the State of Kansas. In 2010, Pottawatomie County had approximately 26 people per square mile compared to 35 for the State of Kansas as a whole. Riley County had 116 people per square mile, significantly more than either Pottawatomie County or the

State of Kansas. This is due to the presence of the City of Manhattan (2013 population: 56,143) in Riley County (Table 2-2).

Table 2-2: Demographic Data for the Study Area (Pottawatomie and Riley Counties)

Category	Pottawatomie County	Riley County	State of Kansas
Population (2010)	22,691	71,115	2,853,116
Population (2013)	21,604	75,394	2,893,957
Percent Increase	5.0%	6.0%	1.4%
Median Household Income (2009-2013)	$56,854	$43,962	$51,332
Persons Per Square Mile (2010)	25.7	116.6	34.9

Source: U.S. Census Bureau 2013

2.5.2 Agriculture

The primary land use within the study area is agriculture. Based on county data, there are approximately 9,000 parcels of land within the study area that, when combined, total 133,830 acres of land. Of this area, approximately 80 percent is zoned for agricultural use. Residentially zoned lands are also common in the study area and include single and multi-family homes, agricultural residential zones, and mobile home parks. Residential and commercially zoned areas are most common in the southern and western portion of the study area where development is greater. Other zoning classifications within the study area include manufacturing (JEC lands), city lands, and planned development (commercial, residential). The primary land use within the Kansas River floodplain is crop production, as is evidenced by the high concentration of center pivot irrigation systems.

Based on 2012 Census of Agricultural statistics for Pottawatomie and Riley Counties, agricultural enterprises are a dominant part of the local economy. The market value of all agricultural products sold was $227,632 per farm in Pottawatomie County and $110,403 per farm in Riley County. There were 1,383 farms reported in Pottawatomie and Riley Counties combined, with 627,839 acres of cropland. The primary crops reported for these counties include corn and wheat, and the primary form of livestock produced is cattle, both beef and dairy. Other livestock includes hogs and pigs, sheep, and poultry (USDA 2012).

2.5.3 Transportation

Major highways in the study area include U.S. Highway 24, which crosses along the entire southern boundary of the study area, and Kansas Highway 99, which crosses north/south through the middle of the study area from Wamego, Kansas. Other major roadways include Flush Road to the west and Onaga Road to the east. Both major roadways branch off of U.S. Highway 24 and cut from south to north across the study area. A network of local and residential roadways supports local transportation.

The Federal Aviation Administration (FAA) Airport Facility Directory lists only one public airport in the study area. The Wamego Municipal Airport is located east of Wamego, approximately 2,000 feet from the southern boundary of the study area, along the Kansas River. Several other private airports also occur within the study area.

A Union Pacific rail line crosses along the southern boundary of the study area, roughly following the U.S. Highway 24 alignment. The rail line crosses through the municipalities of Manhattan, St. George, Wamego, Belvue, and St. Mary's, Kansas.

2.5.4 Existing Utilities

The two Westar substations in the study area associated with this project are the JEC Substation on Westar property and the East Manhattan Substation located south of U.S. Highway 24 just east of Manhattan, Kansas. JEC is the largest coal plant in Kansas. JEC is owned and operated by Westar and Great Plains Inc., and is fueled by low sulfur coal. There is also a network of existing distribution lines within the study area, operated by Westar and Bluestem Electric (Westar 2015).

Transmission in the study area is predominantly the existing 230-kV line being replaced by this project that connects the East Manhattan Substation with JEC. This line cuts diagonally across the study area from southwest to northeast. In addition, a 345-kV transmission line enters the study area just east of St. George, Kansas, continues north until reaching the 230-kV line mentioned above, and the two parallel each other to the east, into JEC. Two other 345-kV lines and a 230-kV transmission line come out of JEC and head in southeastern and southwestern directions. From the East Manhattan Substation, a 230/115-kV double circuit and a single115-kV line head northwest and southeast, respectively.

2.5.5 Commercial and Residential Development

Business facilities, including restaurants, offices, shopping centers, and other service-oriented facilities are found in the southwestern portion of the study area along U.S. Highway 24 between Manhattan and Wamego, Kansas. The highest concentrations are found in eastern Manhattan, and just outside of city limits near the East Manhattan Substation. According to the Pottawatomie County zoning office, future commercial development is planned along the U.S. Highway 24 corridor near Manhattan as the population continues to grow.

With rising populations, residential development in the study area is increasing more rapidly than commercial development. New housing developments have been sited, platted, and permitted throughout the western half of the study area. Information provided by the Pottawatomie County zoning administrator showed over 4,500 acres of land currently in some stage of residential development. This activity was generally contained between Manhattan and Louisville, Kansas, with the eastern portion of the study area remaining more rural for the foreseeable future.

Just north of U.S. Highway 24 between Manhattan and St. George along Lake Elbo Road, the Manhattan-Ogden Unified School District 383 is planning to construct a new 500-student elementary school. According to the district superintendent, the school plans are still very preliminary and the school will likely not be constructed until 5 or 10 years into the future. These areas of new development were considered during the routing process to reduce potential impacts on Pottawatomie and Riley County residents (see Chapter 3.0).

2.5.6 Cultural Resources

Native Americans inhabited the area that would become the City of Manhattan long before the first Euro-American settlements were established in that region. More recently, from 1780 until 1830, the region was home to the Kansa (Kaw), for which the State is named. Near the intersection of the Big Blue and Kansas Rivers, the Kansa had established a village called Blue Earth. On January 14, 1846, the Kansa would cede all of their lands to the United States in the Treaty with the Kansa Tribe (Kappler 1903-4). In the same year that the Kansa would cede their land, the U.S. entered into a treaty with the Pottawatomie establishing a reservation that would cross into the eastern half of the study area (Kappler 1903-4). With the establishment of Fort Riley, in 1853, a military road was constructed that passed through the study area. The Kansas-Nebraska Act of 1854 would open the territory to settlement by U.S. citizens. In the fall of 1854, George Park founded the first Euro-American settlement within the boundaries of what would later become Manhattan.

To identify cultural resources that could be affected by this project, an online search of two databases housed by the Kansas Historical Society (KHS) were reviewed. The databases included the Archaeological Site and Survey GIS Coverage and Kansas Memory historic-era maps and atlases. The Kansas State Archeological Site and Survey GIS Coverage contain the following data: (1) archaeological sites, (2) archaeological surveys, (3) properties listed on the National Register of Historic Places (NRHP), and (4) Historic Districts. The online records review was conducted by Burns & McDonnell archaeologists on December 4 and 8, 2014. The search revealed 73 previously recorded archaeological sites within the 1-mile study area (Table 2-3).

Table 2-3: Archaeological Sites within the Study Area

Site Number	County	Site Name	Site Component	Site Type	Recorded Date
14PO00009	Pottawatomie		Prehistoric	Camp	9/3/1952
14PO00010	Pottawatomie	Sweat Bee Mound	Prehistoric	Stone Mound	9/3/1952
14PO00011	Pottawatomie		Prehistoric	Camp	9/4/1952
14PO00015	Pottawatomie		Prehistoric	Camp	9/4/1952
14PO00024	Pottawatomie	Blue Earth Village, Kansa Village	Historic Am. Indian	Village	8/1/1937
14PO00025	Pottawatomie	Brous Site	Prehistoric	Village	8/25/1937
14PO00026	Pottawatomie	Dike Site	Prehistoric	Village	9/19/1977
14PO00028	Pottawatomie		Prehistoric	Mound	N/A
14PO00051	Pottawatomie		Prehistoric	Camp	2/6/1965
14PO00062	Pottawatomie	Richards Village	Prehistoric	Village	1/1/1999
14PO00107	Pottawatomie	Louis Vieux Elm Tree	Euro-American	Domestic	1/25/2007
14PO00203	Pottawatomie		Prehistoric	Camp	4/13/1965
14PO00204	Pottawatomie		Unknown	Camp	4/13/1965
14PO00301	Pottawatomie	Helm Site	Prehistoric	Village	9/15/1957
14PO00305	Pottawatomie		Multicomponent	Village	3/10/1970
14PO00306	Pottawatomie		Unknown	Camp	3/12/1970
14PO00307	Pottawatomie		Prehistoric	Camp	3/16/1970
14PO00308	Pottawatomie		Prehistoric	Camp	3/16/1970
14PO00309	Pottawatomie		Prehistoric	Camp	3/16/1970
14PO00310	Pottawatomie		Prehistoric	Camp	3/24/1970
14PO00311	Pottawatomie		Prehistoric	Camp	3/26/1970
14PO00312	Pottawatomie	Jim Tressendorf/ Cholera Cemetery	Historic Euro American	Cemetery	3/26/1970
14PO00313	Pottawatomie		Prehistoric	Camp	3/30/1970
14PO00314	Pottawatomie		Multicomponent	Camp	4/6/1970
14PO00315	Pottawatomie		Prehistoric	Camp	4/6/1970
14PO00316	Pottawatomie		Historic Euro American	Agrarian	4/6/1970
14PO00317	Pottawatomie		Prehistoric	Camp	4/6/1970
14PO00318	Pottawatomie		Prehistoric	Camp	4/7/1970
14PO00319	Pottawatomie		Prehistoric	Camp	4/9/1970
14PO00322	Pottawatomie		Prehistoric	Stone Mound	4/10/1970
14PO00336	Pottawatomie		Prehistoric	Camp	5/15/1970
14PO00337	Pottawatomie		Prehistoric	Camp	5/15/1970
14PO00338	Pottawatomie		Prehistoric	Camp	5/15/1970
14PO00344	Pottawatomie		Multicomponent	Camp	5/22/1970

Site Number	County	Site Name	Site Component	Site Type	Recorded Date
14PO00345	Pottawatomie		Prehistoric	Camp	5/22/1970
14PO00346	Pottawatomie	Vieux Cemetery	Historic Am. Indian	Cemetery	9/22/1970
14PO00347	Pottawatomie	Pottawatomie Indian Log House	Historic Am. Indian	Domestic	9/27/1970
14PO00348	Pottawatomie	Grist Mill	Historic Euro American	Industrial	9/27/1970
14PO00350	Pottawatomie	Historic Dugout	Historic Euro American	Domestic	9/27/1970
14PO00352	Pottawatomie	Trail Marker Site		Stone Mound	9/27/1970
14PO00388	Pottawatomie		Multicomponent	Camp	6/17/1981
14PO00389	Pottawatomie		Prehistoric	Camp	6/17/1981
14PO00402	Pottawatomie		Prehistoric	Camp	1/1/1969
14PO00405	Pottawatomie	Poem Village	Historic Am. Indian	Village	4/27/1999
14PO00601	Pottawatomie	Ryan/Disney Site	Prehistoric	Camp	4/1/1970
14PO00602	Pottawatomie		Prehistoric		4/1/1970
14PO01315	Pottawatomie		Prehistoric	Place	4/5/1994
14PO01323	Pottawatomie		Prehistoric	Isolated Find	9/14/2001
14PO01324	Pottawatomie		Prehistoric	Camp	6/20/2002
14PO01325	Pottawatomie		Historic Euro American	Burial	7/3/2007
14PO01326	Pottawatomie	Goehring Oregon and California Trail	Multicomponent	Trail/Road	4/18/2014
14RY00032	Riley	Bluemont Mound	Prehistoric	Mound	9/19/1970
14RY00034	Riley	Fremont Point Mound	Prehistoric	Mound	10/12/1977
14RY00035	Riley		Prehistoric	Mound	5/2/1978
14RY00036	Riley		Prehistoric	Mound	10/17/1977
14RY00037	Riley	Harahey Burial Mound	Prehistoric	Mound	3/29/1978
14RY00038	Riley	Spring Branch Village Site	Prehistoric	Village	10/17/1977
14RY00084	Riley		Prehistoric	Stone Mound	7/3/1978
14RY00086	Riley		Prehistoric	Camp	7/4/1978
14RY00304	Riley		Prehistoric	Camp	11/20/1973
14RY00305	Riley		Prehistoric	Stone Mound	11/21/1973
14RY00306	Riley		Prehistoric	Camp	11/28/1973
14RY00307	Riley		Unknown	Burial	11/28/1973
14RY00365	Riley		Historic Euro American	Domestic	1/1/1991
14RY00380	Riley		Historic Euro American	Agrarian	1/20/1995
14RY00381	Riley		Historic Euro American	Commercial	1/9/1995
14RY00382	Riley		Historic Euro American	Commercial	1/19/1995
14RY00383	Riley		Euro-American	Agrarian	1/20/1995

Site Number	County	Site Name	Site Component	Site Type	Recorded Date
14RY00384	Riley		Euro-American	Commercial	1/20/1995
14RY07166	Riley	Stillman Cemetery	Euro-American	Cemetery	4/3/2006
14WB00101	Wabaunsee	Browers	Prehistoric	Camp	5/9/1980
14WB00311	Wabaunsee		Prehistoric	Camp	9/30/1977
14WB00312	Wabaunsee		Prehistoric	Camp	5/9/1980
14WB00408	Wabaunsee		Prehistoric	Camp	8/29/1991

Source: Kansas SHPO 2015

Two sites, 14PO01326 and 14RRY00365, are categorized as "Eligible" for listing on the NRHP. Five sites, 14RY00380 through 14RY00384, have been evaluated and are categorized as "Not Eligible." The remaining 66 sites are categorized as "Undetermined," meaning that none have likely been evaluated for eligibility for listing in the NRHP.

Additionally, a search of the National Park Service (NPS) NRHP database was conducted. This search revealed 27 sites in the study area that are listed on the NRHP, including two historic districts, one structure, and one cultural resource. The 27 NRHP recorded properties within the study area are listed in Table 2-4.

Table 2-4: NRHP Listed Properties and Districts within the Study Area

Resource Name	Address	City	County	Listing Date	NRHP Number	NRHP Classifi-cation
Baker, Cassius and Adelia, House	609 Elm St.	Wamego	Pottawatomie	4/28/2014	13000433	Building
Beecher Bible and Rifle Church	SE corner of Chapel and Elm Sts.	Wabaunsee	Wabaunsee	2/24/1971	71000334	Building
Bethel A.M.E. Church	401 Yuma St.	Manhattan	Riley	5/30/2012	12000301	Building
Bluemont Youth Cabin	NE. of 5th & Bertrand Sts. in Goodnow Park	Manhattan	Riley	4/28/2014	13001044	Building
Community House	120 N. 4th St.	Manhattan	Riley	11/21/2006	06001051	Building
Downtown Manhattan Historic District	Generally including the blks between Humboldt and Pierre Sts. from 3rd to 5th Sts.	Manhattan	Riley	10/2/2007	06001240	District
Elliot, Mattie M., House	600 Houston St.	Manhattan	Riley	6/2/1995	95000672	Building

Resource Name	Address	City	County	Listing Date	NRHP Number	NRHP Classification
First Congregational Church	700 Poyntz Ave.	Manhattan	Riley	11/13/2008	08001068	Building
Fitz, Leslie A., House	1014 Houston St.	Manhattan	Riley	6/8/2005	05000543	Building
Heptig, Joseph, Barn	12115 Antons Rd.	Flush	Pottawatomie	10/6/2011	11000728	Building
Houston and Pierre Streets Residential Historic District	Bounded by S. 5th St., Pierre St., S. 9th St., and Houston St.	Manhattan	Riley	2/18/2009	09000031	District
Hulse--Daughters House	617 Colorado St.	Manhattan	Riley	6/27/2007	07000601	Building
Lyda--Jean Apartments	501 Houston	Manhattan	Riley	4/28/2004	04000368	Building
Manhattan Carnegie Library Building	Fifth and Poyntz	Manhattan	Riley	6/25/1987	87000970	Building
Old Dutch Mill	Wamego City Park	Wamego	Pottawatomie	1/8/1973	73000773	Structure
Persons Barn and Granary	2103 Hwy. 18	Manhattan	Riley	1/22/2009	08001351	Building
Riley County Courthouse	100 Courthouse Plaza	Manhattan	Riley	11/15/2005	05001249	Building
Runyon, Damon House	400 Osage St.	Manhattan	Riley	12/2/2004	04001282	Building
Second Baptist Church	831 Yuma St.	Manhattan	Riley	5/30/2012	12000302	Building
Seven Dolors Catholic Church	NE of the jct.of Juliette and Pierre Sts.	Manhattan	Riley	9/1/1995	95001054	Building
Strasser House	326 Laramie St	Manhattan	Riley	7/6/2010	10000431	Building
Trout, George and Virginia, House	615 Elm St.	Wamego	Pottawatomie	4/28/2014	13001043	Building
Ulrich, Robert, House	121 N. 8th St.	Manhattan	Riley	9/20/1978	78001287	Building
Vermillion Creek Crossing, Oregon Trail	NW of Belvue	Belvue	Pottawatomie	3/10/1975	75000720	Cultural Resource
Wabaunsee District #1 Grammar School	56 Center St.	Wabaunsee	Wabaunsee	11/17/2005	05001238	Building
Wharton, E. A. and Ura, House	608 Houston St.	Manhattan	Riley	6/20/1995	95000740	Building
Woman's Club House	900 Poyntz Ave.	Manhattan	Riley	11/28/1980	80001472	Building

Source: Kansas SHPO 2015

3.0 ROUTE EVALUATION

Westar retained Burns & McDonnell to assist in the route selection, public involvement and documentation for the JEC to East Manhattan 345/230-kV Transmission Project. This section presents the rationale behind the route identification and evaluation process used for the project, which ultimately resulted in the selection of a preferred route. The project extends from the JEC Substation located approximately 5 miles north of Belvue, Kansas, to the existing East Manhattan Substation just south of U.S. Highway 24 and east of Manhattan, Kansas. Figure 2-2 shows the study area with the two substation end points.

3.1 Overview of the Routing Process

Following is an overview of the steps involved in the identification of the alternative routes and the selection of a preferred route for the project.

The limits of the study area were established based on the endpoints identified by Westar and a preliminary review of possible constraints and co-location opportunities in the area. The overall study area, as shown in Figure 2-2, encompasses approximately 209 square miles. The study area was defined to incorporate the necessary endpoints, while offering an area large enough to provide a set of reasonable and geographically distinct route alternatives. The southern boundary of the study area begins south of Kansas Highway 177, just outside of the eastern Manhattan municipal boundary, and runs east approximately 36 miles along the north bank of the Kansas River. The study area boundary follows the Kansas River until just west of St. Mary's, Kansas, where it turns north at Valley View Road and continues north approximately 8 miles, making up the eastern edge. Just west of Emmett, Kansas, the study area boundary turns to the west along Crystal Springs Road, creating the northern border. The boundary continues straight west for approximately 14 miles until angling slightly southwest at Kansas Highway 99. The study area boundary continues southwest approximately 14 miles until reaching the Blue River and turning south. The boundary continues south until just past Kansas Highway 177, where the western and southern borders meet.

After establishing the study area, the objective was to identify economically feasible routes that connected the two endpoints, while avoiding or minimizing impacts to both social and natural resources. Alternative routes were identified that would connect JEC to the East Manhattan Substation.

Local, State, and Federal agencies were contacted to obtain information relevant to the routing process. Following the identification of potential alternative routes, the study team quantified the social and environmental resources that would be impacted by each possible route. The potential alternative routes were also shown to the public and local officials to obtain input for the evaluation of the alternatives. Quantitative data, public input, and engineering factors were used to evaluate the alternatives and to select a preferred route for the proposed transmission line. Activities leading to the selection of the preferred route are described in more detail in the following sections.

3.2 Identification of Alternative Routes

The objective of the routing analysis was to identify economically feasible routes that would connect JEC to the East Manhattan Substation. The objective was also to identify routes that would offer the most benefits in terms of providing reliable electric power transmission while reducing adverse impacts to the social and natural environment. The alternative route development process included the following main components:

- Contact was made with local, State, and Federal agencies to identify factors in the study area that could affect the route development process
- Local planning and zoning information was reviewed for areas where a transmission route would be consistent with existing or future development
- A GIS-based desktop review of the study area was conducted using information gathered from the agencies, along with recent aerial photography, U.S. Geological Survey (USGS) topographic maps, and other data, to identify potential opportunities and constraint areas
- Alternative routes were developed based on the constraint map
- A field reconnaissance of the study area was conducted to verify the feasibility of the routes that were identified during the desktop review

The major concerns during the development of routes were to:

- Avoiding proximity of the line to residences, businesses, public facilities, parks, cemeteries, and communication towers;
- Avoiding the crossing of center pivot irrigation systems;
- Paralleling existing utilities, roads or railroads when practical, accounting for existing rights of way and potential increased construction costs;
- Avoiding wetlands, riparian areas, conservation lands, and protected species and their habitats for both transmission line corridor and access for construction & maintenance;
- Avoiding placing the line directly over tanks and oil, gas, or water wells;
- Maintaining a reasonable length with as few angles as possible to minimize costs;
- Avoiding proximity to existing or permitted wind turbine installations; and

- Avoiding FAA controlled areas which would restrict structure height or proximity to navigational aids

It was not possible to find a route that avoided all potential impacts. To reduce impacts to land uses, most of the alternatives were located along existing corridors, such as field lines and local roads, or along existing transmission lines.

The alternative routes consist of individual segments that may be combined in different arrangements to form a continuous path to connect the two end points. Each segment begins and ends at intersections with other segments. The final route-segments are shown in Figure 3-1. A detailed map showing all the routes overlaid on a USGS topography map background is found in Appendix C (Figure C-1). A total of 55 segments were identified and were shown to the public at open houses on December 3 and 4, 2014. Section 3.3 further describes the public involvement activities for the project.

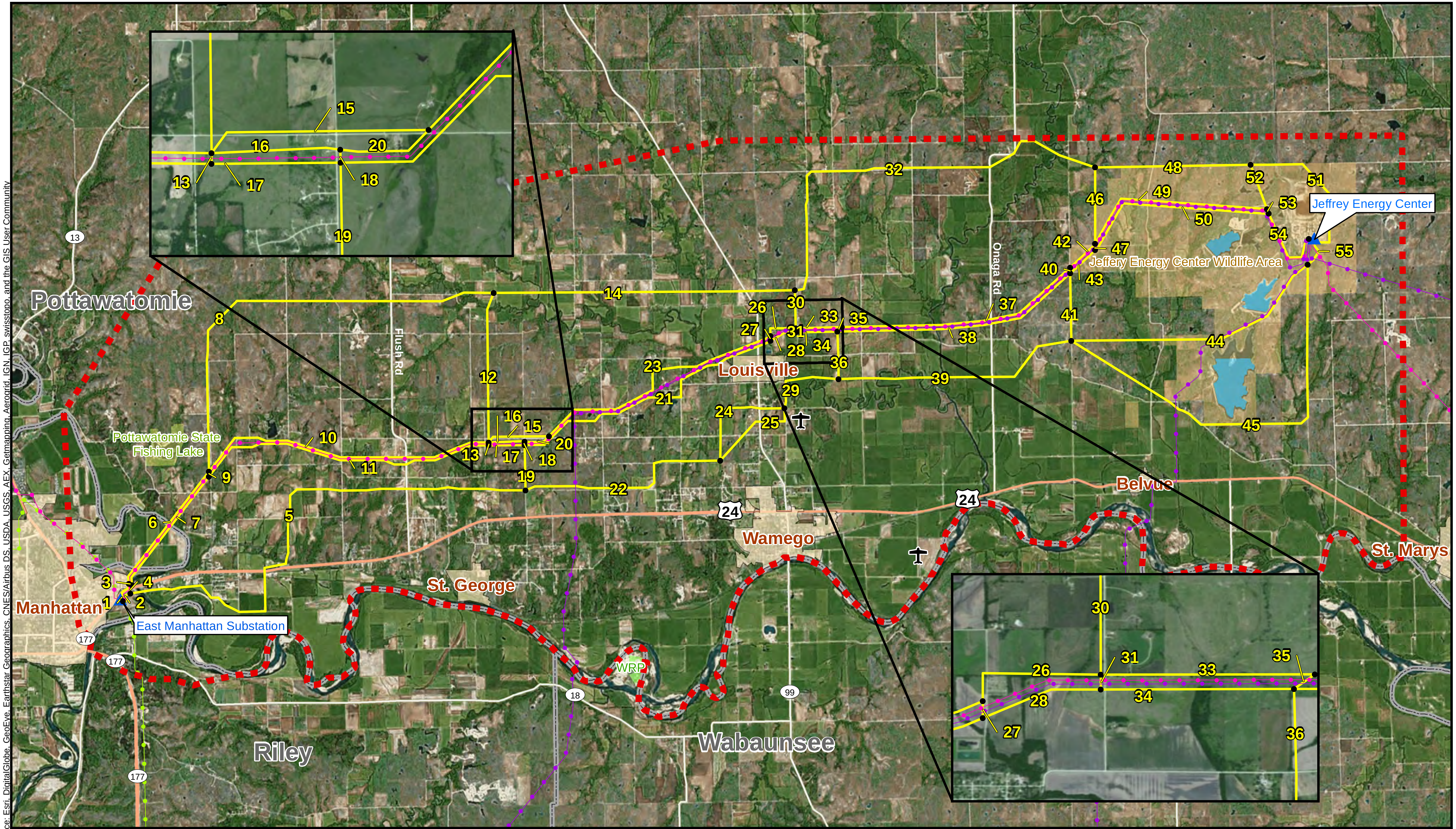
The 55 segments could be combined to form 5,304 alternative routes. All route combinations were evaluated to identify a preferred route. Routes evaluated tend to follow one of three paths out of the East Manhattan Substation and across the study area: central, northern, or southern. Alternatives in the central group follow the existing 230-kV transmission line corridor diagonally through the study area from southwest to northeast. Routes in this group parallel the existing line on both the north and south sides. Alternatives in the northern group break away from the existing line corridor and generally follow the northern boundary of the study area, using Segments 8, 14, and 32. Alternatives in the southern group exit the East Manhattan Substation to the east and generally continue diagonally northeast, forming another corridor south of the existing line. Routes that follow the southern path use Segments 5, 22, and 29.

3.3 Public Involvement Activities

Two forms of public input were used to determine community preferences and concerns relative to the proposed project. The first outreach effort included letters to State, Federal, and local agencies. In addition, two public information meetings were held by Westar in the study area. Input from residents and public officials helped the project team identify the appropriate factors to use in route evaluation. The intent of the public participation program was to provide the potentially affected landowners near the alternative routes with an understanding of the need for the project, the decision-making process used to select the preferred route, and a forum to voice concerns about the proposed project.

State, Federal, and local agencies were contacted by letter to provide input on threatened and endangered species, wetlands, wildlife resources, and other potential permitting issues. Federal agencies contacted included the USACE, USFWS, Environmental Protection Agency (EPA), FAA, and the Natural

Resources Conservation Service (NRCS). State agencies contacted included the KBS, Kansas Department of Health and Environment (KDHE), State Historic Preservation Office (SHPO) at the KHS, Department of Agriculture (KDA), Kansas Department of Transportation (KDOT), and KDWPT. The Nature Conservancy (TNC), a private conservation organization working to protect ecologically important lands and waters, was also contacted. Letters were also sent to the Pottawatomie and Riley Counties Planning and Zoning departments, as well as to the mayor, manager, and city engineer for the City of Manhattan.



NORTH

9,000 4,500 0 9,000

Scale in Feet

Legend

- Study Area Boundary
- Existing Substation
- Route Alternatives
- Segment End Point

Existing Transmission Line

- Existing 115 kV
- Existing 230 kV
- Existing 345 kV

- Municipal Area
- County Boundary
- U.S. Highway
- Jeffery Energy Center Lakes
- Wetland Reserve Program
- Kansas Fish and Wildlife
- Kansas Parks and Recreation
- Airport

Kansas

Locator Map

Figure 3-1
Westar Energy
Jeffrey Energy Center
to East Manhattan

Route Alternatives

Source:USGS, ESRI, Westar Energy, Burns & McDonnell

Issued: 1/22/2015

A summary of the responses received is included in Chapter 4. A sample request letter and the actual responses received from the agencies are provided in Appendix D.

To provide residents of the area with information about the project and gather public input on route alternatives, Westar held open forum informational open houses on December 3 and 4, 2014, at the Wamego Senior Center at 5th and Ash Streets in Wamego. Landowners within 1,000 feet of all alternative route centerlines were sent an informational letter and a small-scale map notifying them of the date and location of the public open house. The landowner information was derived from digital parcel and ownership data obtained from Pottawatomie and Riley Counties.

The meeting included display stations with information on route alternatives and environmental management, as well as a sign-in table with information on project need and various informational handouts. Real estate and right-of-way personnel, engineers, and routing specialists from Westar and Burns & McDonnell were present to answer questions or take comments raised by the public. Three sets of large maps were displayed showing the routes, parcel boundaries, township/range/section data, roads, structures, and other features overlaid on an aerial photograph background. In addition to these large, printed maps, the meeting also included five computer stations showing the same spatial data so that attendees could get a more detailed view of their property and provide more directed comments on their parcel. Photographs and drawings showing the different types of structures that could be used for the project were also available.

Participants received a questionnaire that solicited their input on the routing factors, the route locations, and issues of concern regarding the project. They were asked to return their questionnaires either at the open house or by mail shortly afterwards. Appendix E includes a copy of the landowner notification letter, a project fact sheet and a sample questionnaire from the Westar open houses. A total of 209 questionnaires were received from the open house: 36 were collected at the December 3rd meeting, and 57 were collected at the December 4th meeting. Following the meeting, an additional 116 questionnaires were returned by mail to Westar by the December 18, 2014, deadline. A detailed summary of the questionnaire results is presented in Chapter 5.

The principal concerns documented by the public were proximity to residences, maintaining reliable electrical service, and maximizing length along existing transmission lines. Segments 8, 23, 25, and 32 were identified numerous times as segments of concern, primarily related to potential impacts to residences, agricultural lands, property values, and visual degradation. Minimizing length through wetlands and numbers of streams/rivers crossed, and minimizing length through grassland or pasture were ranked as issues of least concern by the respondents.

Public input was used in the route comparison through weighting of the routing factors and, ultimately, the selection of the preferred route. The following sections describe the route evaluation process and the rationale behind the selection of a preferred route.

3.4 Identification of the Preferred Route

The analysis of alternatives was based on social, environmental, and engineering factors. A preferred route was identified connecting the JEC Substation and the East Manhattan Substation while minimizing, to the extent practicable, the impacts of the proposed transmission line. Following is a description of the process that resulted in identification of a preferred route for the project.

3.4.1 Evaluation Factors

Evaluation of the proposed routes included a systematic comparison of the alternatives based on the social, environmental, and engineering factors that represent the potential adverse effects on resources in the study area. Table 3-1 shows the routing factors used in this analysis.

Table 3-1: Routing Factors

Factors	Unit of Measure
Total length	Feet
Length not along transmission lines	Feet
Length not along roads	Feet
Roads crossed	Number
Length not along property lines	Feet
Residential proximity score	Score
Businesses within 300 feet	Number
Public facilities within 300 feet	Number
Cultural sites within 1,320 feet	Number
Rare species/Species of special concern polygons crossed	Number
Streams and rivers crossed	Number
Wetland acres in right-of-way	Acres
Woodland acres in right-of-way	Acres
Cropland acres in right-of-way	Acres
Open/Pasture acres in right-of-way	Acres
Heavy angles	Number
Visibility rating	Score

The primary source of the data used in this analysis was 2012 and 2014 color aerial imagery, supplemented with field reconnaissance of the overall study area, and along each of the routes developed. Digital data, such as roads, parcel, and land use information, were acquired from various agencies. Following is a detailed description of each of the factors considered for the route analysis.

Total Length is a general indicator of the overall size of the project. Length is also an indicator of construction costs. The longer the preferred route, the more expensive it would be if all other factors were equal.

Length not along Transmission Lines was calculated to reflect the opinion that following an existing overhead electric corridor is generally considered to be favorable to constructing on a new right-of-way. Co-locating a new route along existing transmission lines can reduce impacts, while building a new route away from existing lines can increase impacts; thus, length <u>not</u> along existing corridors was used in the impact analysis. There are several existing transmission lines within the study area; however, only two provide a feasible existing corridor for co-location. The first corridor is the existing 230-kV line being replaced by this project, and it runs diagonally across the study area from southwest to northeast. Also, an existing 345-kV transmission line leaves JEC parallel with the 230-kV line and heads southwest, paralleling the 230-kV line until just west of Louisville, Kansas, where the 345-kV line turns south and leaves the study area. This 345-kV line also provides an adequate corridor for co-location.

Length not along Roads was calculated because following an existing road corridor is generally considered to be more favorable than constructing on a new right-of-way. It is also generally desirable to follow roads where possible to maximize accessibility for construction and future maintenance, and because roads represent an opportunity to keep linear facilities in common corridors. The use of common corridors for linear facilities also helps reduce visual impacts. Co-locating a new route along existing roads can reduce impacts, while building away from the existing roads can increase impacts. Therefore, length <u>not</u> along roads was used in the impact analysis. The number of **Roads Crossed** was also calculated for the proposed routes to evaluate possible permitting costs associated with road crossings, as well evaluate visibility of the line, which tends to be higher at road crossings.

Length not along Property Lines was calculated because following field lines and property lines is generally considered to be more favorable than cutting through parcels, including agricultural lands, at an angle or through the center. Agricultural property owners often find farming around utility poles to be easier when those poles are as close as possible to their field line. It is also generally desirable to follow property lines, where possible, to minimize the number of landowners from whom easements must be obtained. Following property lines is also preferable for landowners because it helps to minimize impacts to the use of their property. Co-locating a new route along existing property lines can reduce impacts, while building away from those boundaries can increase impacts. Therefore, length not along property lines was used in the impact analysis.

The **Residential Proximity Score** was derived for each route by first identifying residences located at varying distances from the proposed routes using aerial photography supplemented with field verification. The impact to residences varies depending on the distance from the route and whether they are already located close to an existing line. Closer houses not already along an existing line would have the greater impact. The score was derived by multiplying the number of residences quantified for each route by the appropriate rating listed in Table 3-2. There were no residences within 100 feet of any routes that were not already along an existing transmission line.

Table 3-2: Residential Proximity Ratings

Location	Distance to Route	Rating
Along an existing line	0-100 feet	3
	101-200 feet	2
	201-300 feet	1
Not along an existing line	0-100 feet	3.5
	101-200 feet	2.5
	201-300 feet	1.5

Businesses within 300 feet were quantified and used in the evaluation of the routes. Very few businesses would be affected by the alternative routes. Only four route segments are within 300 feet of a business, and all are concentrated along the U.S. Highway 24 corridor between Manhattan and Wamego, Kansas.

Public Facilities within 300 feet were also quantified. Public facilities include cemeteries, churches, schools, parks, and other sites used by the public. Only Segments 5 and 26 were within 300 feet of a public facility. Those public facilities in question were a water treatment plant, and a cemetery adjacent to an existing 230-kV transmission line.

Cultural Resource Sites within 1,320 feet (0.25 mile) of each segment were quantified based on a records search of known historic and archaeological sites maintained by the KHS. This factor was used as an index of the potential cultural impact of the proposed routes rather than an actual impact, because most of the area has not been surveyed and most of the known sites' eligibility for inclusion in the NRHP has not been determined. In most cases, further investigation is needed to determine whether listing would be warranted. Only five segments between JEC and East Manhattan would be within 0.25 mile of a known cultural resource site. Two sites within 0.25 mile are currently listed on the NRHP. These include the Vermillion Creek Crossing of the Oregon Trail, northeast of Louisville, Kansas (Segment 38), and the Joseph Heptig Barn on Anton's Road (Segment 8). Because the Oregon Trail crossing site is located just south of the existing transmission line corridor, and the Heptig Barn is more than 1,230 feet from proposed Segment 8, neither of these listed sites was given greater weight in the analysis when compared to other cultural resources.

Rare Species/Species of Special Concern Polygons Crossed were counted and included in the evaluation to reflect the concern of wildlife agencies for the effects of the project on native and protected species habitat. Data from the KBS and KDWPT identify the location of protected, rare, and special concern species within the study area. Twenty-seven segments between JEC and East Manhattan cross a rare or species of special concern polygon for any distance. Though the majority of these polygons are not federally or State-listed threatened or endangered species, this factor was included in the analysis to provide some indication of the routes that could require additional permitting efforts for approval should habitat for threatened or endangered species be found within the right-of-way during the permitting phase of the project.

Streams and Rivers Crossed were identified using digital National Hydrography Dataset (NHD) data from the USGS. All streams in the study area are narrow enough that they could be spanned by the proposed project (no poles would have to be placed within the water). The Blue River and the Kansas River are also found within the study area, but these rivers could also be spanned at the locations where the routes are proposed to cross them. Stream and river impacts are expected to be minimal, especially with the implementation of erosion and sedimentation control procedures specified in a Stormwater Pollution Prevention Plan, which would be prepared for this project during the permitting phase.

Wetland Acres in Right-of-Way was measured using National Wetland Inventory (NWI) data. All wetland acres crossed by the proposed right-of-way were summed for each route. Only palustrine, forested, scrub/shrub, and emergent wetlands were quantified.

Other land use categories reflect the major land uses in the study area using data provided by the National Land Cover Database (NLCD). **Woodland Acres in Right-of-Way** consists of forested areas within the right-of-way that would be cleared along each route and was quantified using all forested land use categories in NLCD data. **Cropland Acres in Right-of-Way** consists of fields planted with row crops and identified in the NLCD data as cropland. Cropland was separated from other agricultural land for this analysis because impacts from the transmission structures tend to be greater for cultivated land than if the field were used for pasture or other passive agricultural operations. **Acres of Open/Pasture in Right-of-Way** were also quantified using lands categorized as grassland/herbaceous or pasture in NLCD data.

Heavy Angles represents the number of angles greater than 30 degrees that would be required for each route. Aside from angles to avoid homes and other constraints, crossings of roads and other linear features typically require two heavy angles. Heavy angles require a larger, more visible structure and may include the use of guy wires or other support features. These structures are more expensive and result in greater land disturbance during construction.

The **Visibility Rating** was based on the length of the line that was considered to have a high (5), medium-high (4), medium (3), medium-low (2), or low (1) impact to people living in or traveling through the area. Table 3-3 shows values that were assigned to portions of routes based on the presence of homes, roads, or businesses within 0.25 mile (1,320 feet) of the route. It was assumed that the line would be blocked by vegetation or other structures or would blend into the background beyond 0.25 mile.

Table 3-3: Visibility Ratings

Feature Visible within 1,320 feet of Proposed Segment	Right-of-Way	
	Visibility Rating	Along Existing Transmission Line
House	5	2
Road	4	1
Business	3	1
Through forest or none of the above features present	1	1

Direct view of the line within 1,320 feet of a house was assigned the highest visibility rating. The transmission line would also be visible from roads crossed by or adjacent to the new line, but the view would be brief and temporary, so a lower visibility rating was assigned. The visibility of the new line from businesses was considered less because a transmission line is generally more compatible with commercial areas.

In locations where an existing transmission line is already present and has already contributed to a visibility impact, the new line would not result in the same level of impact as a new line on new right-of-way and ratings were reduced accordingly. Portions of routes through forested or cleared areas not visible from homes, roads, or businesses were assigned the lowest visibility rating. In cases where two or more features (i.e., houses, roads, or businesses) were visible within 0.25 mile of a segment, the highest rating was assigned. Once a rating was assigned, the portions of the line having high, medium-high, medium, medium-low, or low impacts were multiplied by the appropriate rating. These values were then added together to determine the overall visibility rating for a particular segment.

3.4.2 Weighting the Routing Factors

The above categories were considered to represent the potential impact of construction and operation of the new transmission line within this study area. The level of public concern for the factors varied, as indicated by the ratings in the questionnaires. Burns & McDonnell staff assigned weights to each of the factors based on input from the public via the questionnaires, input from Westar engineers, and our experience with transmission line projects across the country. The weights associated with each routing factor, and the ranks resulting from the public input, are presented in Table 3-4. The names of the routing factors may vary slightly from the descriptions on the public questionnaire, but are the same in meaning.

Table 3-4: Factor Ranking and Weights

Factor	Public Rank	Weight
Residential proximity score	1	10
Maintain reliable electric service	2	--
Length not along transmission line	3	8
Visibility rating	4	9
Cropland acres in right-of-way	5	6
Public facilities within 300 feet	6	2
Woodland acres in right-of-way	7	4
Length not along roads	8	5
Distance from center pivot irrigation	9	--
Total length	10	3
Businesses within 300 feet	11	2
Rare species/Species of concern polygons crossed	12	2
Cultural sites within 1,320 feet	13	3
Open/Pasture land in right-of-way	14	1
Streams and rivers crossed	15	3
Wetland acres in right-of-way	15	4
Heavy angles > 30 degrees	--	1
Length not along property lines	--	5
Roads crossed	--	2

The range of weights (1-10) was determined by the number of factors; the relative importance of each factor in relation to the others, based primarily on the public responses; and the need to differentiate among the routes. The weights are reversed from the public ranks in Table 3-4 because a higher weight places more significance on factors considered most important to the public.

Three factors—heavy angles, roads crossed, and length not along property lines—were not ranked by the public but were included in the evaluation of the routes. These factors were determined to warrant inclusion in the evaluation given the added cost, permitting time, and engineering requirements associated with heavy angles and road crossings, as well as the general landowner preference for following property boundaries. Overall, proximity to residences was identified by the public as the most important factor and thus, it received the highest weight in the analysis. The public ranked streams/rivers crossed and wetlands crossed as the two least important factors, so they were assigned lower weights.

3.4.3 Evaluation Process

The route network between JEC and the East Manhattan Substation consisted of 55 segments that could be combined to form 5,304 different routes (Figure 3-1 and Appendix C, Figure C-1).

Once totals were summed for each of the routing factors for the 5,304 alternative routes, a score was calculated based on the route's difference from the mean (or average) for all routes, and the standard deviation for each factor. This statistical Z-score technique reflects the variability among the routes for each factor. A negative score indicates that the score for that route is lower than the mean for all of the routes for that specific factor (e.g. shorter). A positive score indicates that the score for that route is higher than the mean (e.g. longer). Larger positive or negative numbers indicate that the route values for that factor were further from the mean. These “raw” scores were next multiplied by the weights, developed using the public input from the questionnaires, and then summed across all factors for each route. Based on these scores, the list of routes that comprised the top 50 routes based on their weighted scores and their component segments is shown in Table 3-5. Table 3-6 shows the route data for the top 50 routes evaluated. The resultant weighted scores were sorted and are shown in Table 3-7. The intermediate raw scores, route data, and sorted, weighted Z-score tables showing all routes evaluated are presented in Appendix F (Tables F-1, F-2, and F-3) for reference.

The Z-score analysis allowed the routes to be screened and the lesser-impacting routes identified for further evaluation. The route selection process included this systematic analysis of the alternatives, combined with an understanding of the circumstances in the study area and the non-quantifiable public input received. The weighted scores ranged 170.1 points, from a low of –57.2 (Route 2842) to a high of

112.9 (Route 5024). Table 3-7 presents the weighted scores for the routes, sorted from lowest to highest score. A lower score indicates fewer overall impacts, while a higher score typically indicates greater impacts. Slightly more than half the routes had negative scores (i.e., fewer impacts than the average for all routes).

Table 3-5: Components of Top 50 Routes

Route	Segments
1354	1,6,10,13,17,18,20,23,27,28,31,33,37,42,49,53,54
1498	1,6,10,13,17,21,28,31,33,37,40,43,50,54
1501	1,6,10,13,17,21,28,31,33,37,42,47,50,54
1502	1,6,10,13,17,21,28,31,33,37,42,49,53,54
1508	1,6,10,13,17,21,28,34,35,37,40,43,50,54
1512	1,6,10,13,17,21,28,34,35,37,42,49,53,54
1572	1,6,10,15,23,26,33,37,40,43,50,54
1575	1,6,10,15,23,26,33,37,42,47,50,54
1576	1,6,10,15,23,26,33,37,42,49,53,54
1585	1,6,10,15,23,27,28,31,33,37,40,43,47,49,53,54
1586	1,6,10,15,23,27,28,31,33,37,40,43,50,54
1589	1,6,10,15,23,27,28,31,33,37,42,47,50,54
1590	1,6,10,15,23,27,28,31,33,37,42,49,53,54
1596	1,6,10,15,23,27,28,34,35,37,40,43,50,54
1599	1,6,10,15,23,27,28,34,35,37,42,47,50,54
1600	1,6,10,15,23,27,28,34,35,37,42,49,53,54
2474	1,6,9,11,17,21,28,31,33,37,42,49,53,54
2592	2,4,3,6,10,13,17,18,20,23,26,33,37,42,49,53,54
2602	2,4,3,6,10,13,17,18,20,23,27,28,31,33,37,40,43,50,54
2606	2,4,3,6,10,13,17,18,20,23,27,28,31,33,37,42,49,53,54
2616	2,4,3,6,10,13,17,18,20,23,27,28,34,35,37,42,49,53,54
2740	2,4,3,6,10,13,17,21,27,26,33,37,42,49,53,54
2749	2,4,3,6,10,13,17,21,28,31,33,37,40,43,47,49,53,54
2750	2,4,3,6,10,13,17,21,28,31,33,37,40,43,50,54
2753	2,4,3,6,10,13,17,21,28,31,33,37,42,47,50,54
2754	2,4,3,6,10,13,17,21,28,31,33,37,42,49,53,54
2760	2,4,3,6,10,13,17,21,28,34,35,37,40,43,50,54
2763	2,4,3,6,10,13,17,21,28,34,35,37,42,47,50,54
2764	2,4,3,6,10,13,17,21,28,34,35,37,42,49,53,54
2798	2,4,3,6,10,15,23,26,31,34,35,37,42,49,53,54
2824	2,4,3,6,10,15,23,26,33,37,40,43,50,54
2827	2,4,3,6,10,15,23,26,33,37,42,47,50,54
2828	2,4,3,6,10,15,23,26,33,37,42,49,53,54
2837	2,4,3,6,10,15,23,27,28,31,33,37,40,43,47,49,53,54
2838	2,4,3,6,10,15,23,27,28,31,33,37,40,43,50,54
2841	2,4,3,6,10,15,23,27,28,31,33,37,42,47,50,54
2842	2,4,3,6,10,15,23,27,28,31,33,37,42,49,53,54
2848	2,4,3,6,10,15,23,27,28,34,35,37,40,43,50,54
2851	2,4,3,6,10,15,23,27,28,34,35,37,42,47,50,54
2852	2,4,3,6,10,15,23,27,28,34,35,37,42,49,53,54
3254	2,4,3,6,9,11,13,15,23,27,28,31,33,37,42,49,53,54
3722	2,4,3,6,9,11,17,21,28,31,33,37,40,43,50,54
3726	2,4,3,6,9,11,17,21,28,31,33,37,42,49,53,54
3736	2,4,3,6,9,11,17,21,28,34,35,37,42,49,53,54
4330	2,4,7,11,17,21,28,31,33,37,42,49,53,54
4610	2,4,7,9,10,13,17,21,28,31,33,37,42,49,53,54
4684	2,4,7,9,10,15,23,26,33,37,42,49,53,54
4694	2,4,7,9,10,15,23,27,28,31,33,37,40,43,50,54
4698	2,4,7,9,10,15,23,27,28,31,33,37,42,49,53,54
4708	2,4,7,9,10,15,23,27,28,34,35,37,42,49,53,54

Table 3-6: Route Data for Top 50 Routes

Route	Segments	Total Length (Feet)	Heavy Angles > 30 Degrees	Length Not Along Transmission Line (Feet)	Length Not Along Roads (Feet)	Length Not Along Property Lines (Feet)	Roads Crossed	Streams and Rivers Crossed	Wetland Acres In ROW	Woodland Acres In ROW	Cropland Acres In ROW	Open/ Pasture Land in ROW	Rare Species/ Species of Concern Polygons Crossed	Visibility Rating	Residential Proximity Score	Businesses Within 300ft	Public Facilities Within 300ft	Cultural Sites Within 1,320ft
1354	1,6,10,13,17,18,20,23,27,28,31,33,37,42,49,53,54	145,816	21	11,575	141,266	109,269	29	43	2.87	36.07	99.16	327.44	6	214,828	18.5	4	0	1
1498	1,6,10,13,17,21,28,31,33,37,40,43,50,54	145,195	21	15,790	139,138	109,441	33	46	2.02	36.22	86.98	333.28	5	230,218	20	4	0	1
1501	1,6,10,13,17,21,28,31,33,37,42,47,50,54	145,292	20	15,846	139,810	110,113	33	46	2.02	36.22	88.25	333.89	5	230,555	20	4	0	1
1502	1,6,10,13,17,21,28,31,33,37,42,49,53,54	144,908	19	15,215	139,426	109,729	31	45	2.39	34.31	85.09	338.88	6	228,276	20	4	0	1
1508	1,6,10,13,17,21,28,34,35,37,40,43,50,54	144,944	21	15,989	139,301	114,258	33	45	2.02	37.21	85.94	332.59	5	227,372	20	4	0	1
1512	1,6,10,13,17,21,28,34,35,37,42,49,53,54	144,657	19	15,414	139,589	114,545	31	44	2.39	35.30	84.04	338.19	6	225,429	20	4	0	1
1572	1,6,10,15,23,26,33,37,40,43,50,54	145,166	19	19,188	134,860	105,819	31	43	2.56	38.38	91.92	322.16	5	233,296	17	4	1	1
1575	1,6,10,15,23,26,33,37,42,47,50,54	145,263	18	19,244	135,532	106,491	31	43	2.56	38.38	93.18	322.77	5	233,632	17	4	1	1
1576	1,6,10,15,23,26,33,37,42,49,53,54	144,879	17	18,613	135,148	106,107	29	42	2.92	36.47	90.02	327.75	6	231,354	17	4	1	1
1585	1,6,10,15,23,27,28,31,33,37,40,43,47,49,53,54	146,357	23	18,500	135,939	109,464	31	42	2.92	35.31	99.98	321.72	6	233,907	17	4	0	1
1586	1,6,10,15,23,27,28,31,33,37,40,43,50,54	145,477	21	17,868	135,060	108,585	31	43	2.56	37.22	101.06	315.12	5	231,133	17	4	0	1
1589	1,6,10,15,23,27,28,31,33,37,42,47,50,54	145,574	20	17,925	135,732	109,257	31	43	2.56	37.22	102.33	315.73	5	231,470	17	4	0	1
1590	1,6,10,15,23,27,28,31,33,37,42,49,53,54	145,190	19	17,293	135,348	108,873	29	42	2.92	35.31	99.16	320.72	6	229,191	17	4	0	1
1596	1,6,10,15,23,27,28,34,35,37,40,43,50,54	145,227	21	18,068	135,223	113,402	31	42	2.56	38.21	100.02	314.43	5	228,287	17	4	0	1
1599	1,6,10,15,23,27,28,34,35,37,42,47,50,54	145,324	20	18,124	135,895	114,074	31	42	2.56	38.21	101.28	315.05	5	228,623	17	4	0	1
1600	1,6,10,15,23,27,28,34,35,37,42,49,53,54	144,940	19	17,493	135,511	113,690	29	41	2.92	36.30	98.12	320.03	6	226,344	17	4	0	1
2474	1,6,9,11,17,21,28,31,33,37,42,49,53,54	145,061	19	18,022	141,679	110,290	31	46	3.26	35.22	83.89	341.57	6	234,324	10	4	0	1
2592	2,4,3,6,10,13,17,18,20,23,26,33,37,42,49,53,54	146,022	23	13,253	142,291	107,859	28	43	2.80	37.23	90.13	334.84	6	218,584	18.5	2	1	1
2602	2,4,3,6,10,13,17,18,20,23,27,28,31,33,37,40,43,50, 54	146,620	27	12,509	142,203	110,338	30	44	2.44	37.98	101.17	322.21	5	218,364	18.5	2	0	1
2606	2,4,3,6,10,13,17,18,20,23,27,28,31,33,37,42,49,53, 54	146,333	25	11,934	142,491	110,625	28	43	2.80	36.07	99.28	327.80	6	216,422	18.5	2	0	1
2616	2,4,3,6,10,13,17,18,20,23,27,28,34,35,37,42,49,53, 54	146,082	25	12,133	142,654	115,442	28	42	2.80	37.06	98.24	327.11	6	213,575	18.5	2	0	1
2740	2,4,3,6,10,13,17,21,27,26,33,37,42,49,53,54	146,067	23	17,846	140,451	108,319	30	45	2.32	35.47	79.16	346.28	6	235,846	20	2	1	1
2749	2,4,3,6,10,13,17,21,28,31,33,37,40,43,47,49,53,54	146,591	27	16,780	141,243	111,677	32	45	2.32	34.31	86.02	340.24	6	234,586	20	2	0	1
2750	2,4,3,6,10,13,17,21,28,31,33,37,40,43,50,54	145,712	25	16,149	140,363	110,797	32	46	1.95	36.22	87.10	333.65	5	231,812	20	2	0	1
2753	2,4,3,6,10,13,17,21,28,31,33,37,42,47,50,54	145,809	24	16,205	141,035	111,469	32	46	1.95	36.22	88.37	334.26	5	232,148	20	2	0	1
2754	2,4,3,6,10,13,17,21,28,31,33,37,42,49,53,54	145,425	23	15,573	140,651	111,085	30	45	2.32	34.31	85.21	339.24	6	229,870	20	2	0	1
2760	2,4,3,6,10,13,17,21,28,34,35,37,40,43,50,54	145,462	25	16,348	140,526	115,614	32	45	1.95	37.21	86.06	332.96	5	228,965	20	2	0	1
2763	2,4,3,6,10,13,17,21,28,34,35,37,42,47,50,54	145,558	24	16,405	141,198	116,286	32	45	1.95	37.21	87.33	333.57	5	229,302	20	2	0	1
2764	2,4,3,6,10,13,17,21,28,34,35,37,42,49,53,54	145,174	23	15,773	140,814	115,902	30	44	2.32	35.30	84.17	338.55	6	227,023	20	2	0	1
2798	2,4,3,6,10,15,23,26,31,34,35,37,42,49,53,54	145,972	25	19,998	136,536	112,280	28	41	2.85	37.46	89.72	329.55	6	234,233	17	2	1	1
2824	2,4,3,6,10,15,23,26,33,37,40,43,50,54	145,684	23	19,547	136,085	107,175	30	43	2.49	38.38	92.04	322.53	5	234,890	17	2	1	1
2827	2,4,3,6,10,15,23,26,33,37,42,47,50,54	145,780	22	19,603	136,757	107,847	30	43	2.49	38.38	93.30	323.14	5	235,226	17	2	1	1

Route	Segments	Total Length (Feet)	Heavy Angles > 30 Degrees	Length Not Along Transmission Line (Feet)	Length Not Along Roads (Feet)	Length Not Along Property Lines (Feet)	Roads Crossed	Streams and Rivers Crossed	Wetland Acres In ROW	Woodland Acres In ROW	Cropland Acres In ROW	Open/ Pasture Land in ROW	Rare Species/ Species of Concern Polygons Crossed	Visibility Rating	Residential Proximity Score	Businesses Within 300ft	Public Facilities Within 300ft	Cultural Sites Within 1,320ft
2828	2,4,3,6,10,15,23,26,33,37,42,49,53,54	145,396	21	18,971	136,373	107,463	28	42	2.85	36.47	90.14	328.12	6	232,947	17	2	1	1
2837	2,4,3,6,10,15,23,27,28,31,33,37,40,43,47,49,53,54	146,874	27	18,859	137,165	110,821	30	42	2.85	35.31	100.10	322.08	6	235,501	17	2	0	1
2838	2,4,3,6,10,15,23,27,28,31,33,37,40,43,50,54	145,995	25	18,227	136,285	109,942	30	43	2.49	37.22	101.18	315.49	5	232,727	17	2	0	1
2841	2,4,3,6,10,15,23,27,28,31,33,37,42,47,50,54	146,091	24	18,283	136,957	110,614	30	43	2.49	37.22	102.45	316.10	5	233,063	17	2	0	1
2842	2,4,3,6,10,15,23,27,28,31,33,37,42,49,53,54	145,707	23	17,652	136,573	110,230	28	42	2.85	35.31	99.29	321.08	6	230,785	17	2	0	1
2848	2,4,3,6,10,15,23,27,28,34,35,37,40,43,50,54	145,744	25	18,427	136,448	114,758	30	42	2.49	38.21	100.14	314.80	5	229,880	17	2	0	1
2851	2,4,3,6,10,15,23,27,28,34,35,37,42,47,50,54	145,841	24	18,483	137,120	115,430	30	42	2.49	38.21	101.40	315.41	5	230,217	17	2	0	1
2852	2,4,3,6,10,15,23,27,28,34,35,37,42,49,53,54	145,457	23	17,851	136,736	115,046	28	41	2.85	36.30	98.24	320.39	6	227,938	17	2	0	1
3254	2,4,3,6,9,11,13,15,23,27,28,31,33,37,42,49,53,54	146,460	26	21,060	139,426	111,391	28	43	3.73	36.22	98.09	325.76	6	239,184	7	2	0	1
3722	2,4,3,6,9,11,17,21,28,31,33,37,40,43,50,54	145,865	25	18,956	142,616	111,359	32	47	2.82	37.13	85.91	336.34	5	237,860	10	2	0	1
3726	2,4,3,6,9,11,17,21,28,31,33,37,42,49,53,54	145,578	23	18,381	142,904	111,647	30	46	3.19	35.22	84.01	341.93	6	235,917	10	2	0	1
3736	2,4,3,6,9,11,17,21,28,34,35,37,42,49,53,54	145,327	23	18,581	143,067	116,463	30	45	3.19	36.21	82.97	341.25	6	233,071	10	2	0	1
4330	2,4,7,11,17,21,28,31,33,37,42,49,53,54	144,307	19	17,535	142,120	111,499	30	47	4.04	35.48	83.67	337.44	6	232,123	12	0	0	1
4610	2,4,7,9,10,13,17,21,28,31,33,37,42,49,53,54	145,128	23	15,702	139,867	110,937	30	46	3.16	34.59	84.87	336.46	6	230,887	22	0	0	1
4684	2,4,7,9,10,15,23,26,33,37,42,49,53,54	145,100	21	19,100	135,589	107,315	28	43	3.70	36.76	89.80	325.34	6	233,964	19	0	1	1
4694	2,4,7,9,10,15,23,27,28,31,33,37,40,43,50,54	145,698	25	18,355	135,501	109,794	30	44	3.33	37.50	100.84	312.70	5	233,744	19	0	0	1
4698	2,4,7,9,10,15,23,27,28,31,33,37,42,49,53,54	145,411	23	17,780	135,789	110,082	28	43	3.70	35.59	98.95	318.30	6	231,802	19	0	0	1
4708	2,4,7,9,10,15,23,27,28,34,35,37,42,49,53,54	145,160	23	17,980	135,952	114,898	28	42	3.70	36.59	97.90	317.61	6	228,955	19	0	0	1

Table 3-7: Sorted and Weighted Scores for Top 50 Routes

Weights			3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
Rank	Route	Segments	Total Length	Heavy Angles > 30 Degrees	Length Not Along T-Line	Length Not Along Roads	Length Not Along Property Lines	Roads Crossed	Streams and Rivers Crossed	Wetland Acres In ROW	Woodland Acres in ROW	Cropland Acres in ROW	Open/ Pasture Land in ROW	Rare Species/ Species of Concern Polygons Crossed	Visibility Rating	Residential Proximity Score	Businesses Within 300ft	Public Facilities Within 300ft	Cultural Sites Within 1,320ft	Sum
1	2842	2,4,3,6,10,15,23,27,28,31,33,37,42,49,53,54	-4.49	-0.38	-11.60	-5.26	2.30	-3.18	-4.77	-1.58	-3.26	-2.33	-0.81	0.11	-11.60	-6.29	-0.33	-1.54	-2.17	**-57.2**
2	1590	1,6,10,15,23,27,28,31,33,37,42,49,53,54	-4.66	-1.41	-11.69	-6.09	1.80	-2.32	-4.77	-1.18	-3.26	-2.36	-0.83	0.11	-11.82	-6.29	2.45	-1.54	-2.17	**-56.0**
3	2754	2,4,3,6,10,13,17,21,28,31,33,37,42,49,53,54	-4.58	-0.38	-12.12	-2.52	2.62	-1.46	-2.62	-4.63	-4.48	-5.74	-0.15	0.11	-11.73	-4.31	-0.33	-1.54	-2.17	**-56.0**
4	2852	2,4,3,6,10,15,23,27,28,34,35,37,42,49,53,54	-4.57	-0.38	-11.56	-5.15	4.09	-3.18	-5.49	-1.58	-2.05	-2.58	-0.84	0.11	-12.00	-6.29	-0.33	-1.54	-2.17	**-55.5**
5	2838	2,4,3,6,10,15,23,27,28,31,33,37,40,43,50,54	-4.39	0.14	-11.46	-5.46	2.20	-1.46	-4.06	-3.66	-0.94	-1.87	-1.02	-1.80	-11.32	-6.29	-0.33	-1.54	-2.17	**-55.4**
6	2828	2,4,3,6,10,15,23,26,33,37,42,49,53,54	-4.59	-0.90	-11.28	-5.40	1.28	-3.18	-4.77	-1.58	-1.85	-4.55	-0.56	0.11	-11.29	-6.29	-0.33	2.28	-2.17	**-55.1**
7	1502	1,6,10,13,17,21,28,31,33,37,42,49,53,54	-4.76	-1.41	-12.20	-3.34	2.12	-0.60	-2.62	-4.23	-4.48	-5.77	-0.16	0.11	-11.95	-4.31	2.45	-1.54	-2.17	**-54.9**
8	2841	2,4,3,6,10,15,23,27,28,31,33,37,42,47,50,54	-4.36	-0.12	-11.45	-5.00	2.45	-1.46	-4.06	-3.66	-0.94	-1.56	-1.00	-1.80	-11.28	-6.29	-0.33	-1.54	-2.17	**-54.6**
9	1600	1,6,10,15,23,27,28,34,35,37,42,49,53,54	-4.75	-1.41	-11.64	-5.98	3.59	-2.32	-5.49	-1.18	-2.05	-2.61	-0.85	0.11	-12.22	-6.29	2.45	-1.54	-2.17	**-54.4**
10	2764	2,4,3,6,10,13,17,21,28,34,35,37,42,49,53,54	-4.67	-0.38	-12.07	-2.41	4.41	-1.46	-3.34	-4.63	-3.28	-6.00	-0.17	0.11	-12.13	-4.31	-0.33	-1.54	-2.17	**-54.4**
11	1586	1,6,10,15,23,27,28,31,33,37,40,43,50,54	-4.57	-0.90	-11.55	-6.28	1.69	-0.60	-4.06	-3.26	-0.94	-1.90	-1.03	-1.80	-11.55	-6.29	2.45	-1.54	-2.17	**-54.3**
12	2750	2,4,3,6,10,13,17,21,28,31,33,37,40,43,50,54	-4.49	0.14	-11.97	-2.71	2.52	0.25	-1.91	-6.71	-2.16	-5.29	-0.35	-1.80	-11.45	-4.31	-0.33	-1.54	-2.17	**-54.3**
13	1576	1,6,10,15,23,26,33,37,42,49,53,54	-4.77	-1.93	-11.37	-6.22	0.77	-2.32	-4.77	-1.18	-1.85	-4.58	-0.57	0.11	-11.52	-6.29	2.45	2.28	-2.17	**-53.9**
14	2848	2,4,3,6,10,15,23,27,28,34,35,37,40,43,50,54	-4.47	0.14	-11.41	-5.35	3.99	-1.46	-4.77	-3.66	0.27	-2.13	-1.04	-1.80	-11.72	-6.29	-0.33	-1.54	-2.17	**-53.8**
15	4698	2,4,7,9,10,15,23,27,28,31,33,37,42,49,53,54	-4.59	-0.38	-11.57	-5.79	2.25	-3.18	-4.06	3.22	-2.92	-2.41	-0.92	0.11	-11.45	-4.97	-3.11	-1.54	-2.17	**-53.5**
16	1589	1,6,10,15,23,27,28,31,33,37,42,47,50,54	-4.53	-1.15	-11.54	-5.83	1.94	-0.60	-4.06	-3.26	-0.94	-1.59	-1.01	-1.80	-11.50	-6.29	2.45	-1.54	-2.17	**-53.4**
17	2753	2,4,3,6,10,13,17,21,28,31,33,37,42,47,50,54	-4.45	-0.12	-11.96	-2.26	2.76	0.25	-1.91	-6.71	-2.16	-4.98	-0.33	-1.80	-11.41	-4.31	-0.33	-1.54	-2.17	**-53.4**
18	2824	2,4,3,6,10,15,23,26,33,37,40,43,50,54	-4.50	-0.38	-11.14	-5.59	1.17	-1.46	-4.06	-3.66	0.48	-4.09	-0.76	-1.80	-11.02	-6.29	-0.33	2.28	-2.17	**-53.3**
19	1512	1,6,10,13,17,21,28,34,35,37,42,49,53,54	-4.84	-1.41	-12.15	-3.23	3.91	-0.60	-3.34	-4.23	-3.28	-6.03	-0.19	0.11	-12.35	-4.31	2.45	-1.54	-2.17	**-53.2**
20	2606	2,4,3,6,10,13,17,18,20,23,27,28,31,33,37,42,49,53,54	-4.27	0.14	-13.01	-1.28	2.45	-3.18	-4.06	-1.87	-2.34	-2.33	-0.57	0.11	-13.62	-5.30	-0.33	-1.54	-2.17	**-53.2**
21	1498	1,6,10,13,17,21,28,31,33,37,40,43,50,54	-4.66	-0.90	-12.06	-3.54	2.01	1.11	-1.91	-6.31	-2.16	-5.31	-0.37	-1.80	-11.68	-4.31	2.45	-1.54	-2.17	**-53.1**
22	2851	2,4,3,6,10,15,23,27,28,34,35,37,42,47,50,54	-4.44	-0.12	-11.40	-4.89	4.24	-1.46	-4.77	-3.66	0.27	-1.82	-1.02	-1.80	-11.68	-6.29	-0.33	-1.54	-2.17	**-52.9**
23	3726	2,4,3,6,9,11,17,21,28,31,33,37,42,49,53,54	-4.53	-0.38	-11.42	-1.00	2.83	-1.46	-1.91	0.33	-3.38	-6.03	-0.05	0.11	-10.87	-10.90	-0.33	-1.54	-2.17	**-52.7**
24	1596	1,6,10,15,23,27,28,34,35,37,40,43,50,54	-4.65	-0.90	-11.50	-6.17	3.48	-0.60	-4.77	-3.26	0.27	-2.15	-1.06	-1.80	-11.95	-6.29	2.45	-1.54	-2.17	**-52.6**
25	2760	2,4,3,6,10,13,17,21,28,34,35,37,40,43,50,54	-4.57	0.14	-11.92	-2.60	4.30	0.25	-2.62	-6.71	-0.95	-5.54	-0.38	-1.80	-11.85	-4.31	-0.33	-1.54	-2.17	**-52.6**
26	2827	2,4,3,6,10,15,23,26,33,37,42,47,50,54	-4.46	-0.64	-11.12	-5.14	1.42	-1.46	-4.06	-3.66	0.48	-3.78	-0.74	-1.80	-10.97	-6.29	-0.33	2.28	-2.17	**-52.4**
27	4610	2,4,7,9,10,13,17,21,28,31,33,37,42,49,53,54	-4.68	-0.38	-12.08	-3.05	2.57	-1.46	-1.91	0.18	-4.14	-5.83	-0.25	0.11	-11.58	-2.99	-3.11	-1.54	-2.17	**-52.3**
28	1501	1,6,10,13,17,21,28,31,33,37,42,47,50,54	-4.63	-1.15	-12.05	-3.09	2.26	1.11	-1.91	-6.31	-2.16	-5.01	-0.34	-1.80	-11.63	-4.31	2.45	-1.54	-2.17	**-52.3**
29	2837	2,4,3,6,10,15,23,27,28,31,33,37,40,43,47,49,53,54	-4.09	0.66	-11.31	-4.86	2.52	-1.46	-4.77	-1.58	-3.26	-2.13	-0.78	0.11	-10.93	-6.29	-0.33	-1.54	-2.17	**-52.2**
30	1572	1,6,10,15,23,26,33,37,40,43,50,54	-4.67	-1.41	-11.23	-6.41	0.67	-0.60	-4.06	-3.26	0.48	-4.12	-0.77	-1.80	-11.24	-6.29	2.45	2.28	-2.17	**-52.2**
31	1354	1,6,10,13,17,18,20,23,27,28,31,33,37,42,49,53,54	-4.45	-0.90	-13.10	-2.11	1.95	-2.32	-4.06	-1.47	-2.34	-2.36	-0.58	0.11	-13.84	-5.30	2.45	-1.54	-2.17	**-52.0**
32	4708	2,4,7,9,10,15,23,27,28,34,35,37,42,49,53,54	-4.67	-0.38	-11.52	-5.68	4.04	-3.18	-4.77	3.22	-1.71	-2.67	-0.94	0.11	-11.86	-4.97	-3.11	-1.54	-2.17	**-51.8**
33	1599	1,6,10,15,23,27,28,34,35,37,42,47,50,54	-4.62	-1.15	-11.49	-5.72	3.73	-0.60	-4.77	-3.26	0.27	-1.85	-1.04	-1.80	-11.90	-6.29	2.45	-1.54	-2.17	**-51.8**
34	2763	2,4,3,6,10,13,17,21,28,34,35,37,42,47,50,54	-4.54	-0.12	-11.91	-2.15	4.55	0.25	-2.62	-6.71	-0.95	-5.23	-0.36	-1.80	-11.81	-4.31	-0.33	-1.54	-2.17	**-51.7**
35	4694	2,4,7,9,10,15,23,27,28,31,33,37,40,43,50,54	-4.49	0.14	-11.43	-5.98	2.14	-1.46	-3.34	1.14	-0.59	-1.95	-1.12	-1.80	-11.18	-4.97	-3.11	-1.54	-2.17	**-51.7**

Rank	Route	Segments	Total Length	Heavy Angles > 30 Degrees	Length Not Along T-Line	Length Not Along Roads	Length Not Along Property Lines	Roads Crossed	Streams and Rivers Crossed	Wetland Acres In ROW	Woodland Acres in ROW	Cropland Acres in ROW	Open/ Pasture Land in ROW	Rare Species/ Species of Concern Polygons Crossed	Visibility Rating	Residential Proximity Score	Businesses Within 300ft	Public Facilities Within 300ft	Cultural Sites Within 1,320ft	Sum
Weights			3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
36	3254	2,4,3,6,9,11,13,15,23,27,28,31,33,37,42,49,53,54	-4.23	0.40	-10.77	-3.34	2.74	-3.18	-4.06	3.38	-2.15	-2.62	-0.64	0.11	-10.42	-12.87	-0.33	-1.54	-2.17	**-51.7**
37	2474	1,6,9,11,17,21,28,31,33,37,42,49,53,54	-4.71	-1.41	-11.51	-1.83	2.33	-0.60	-1.91	0.73	-3.38	-6.06	-0.06	0.11	-11.10	-10.90	2.45	-1.54	-2.17	**-51.6**
38	2740	2,4,3,6,10,13,17,21,27,26,33,37,42,49,53,54	-4.36	-0.38	-11.56	-2.65	1.59	-1.46	-2.62	-4.63	-3.07	-7.21	0.11	0.11	-10.88	-4.31	-0.33	2.28	-2.17	**-51.5**
39	2616	2,4,3,6,10,13,17,18,20,23,27,28,34,35,37,42,49,53,54	-4.36	0.14	-12.96	-1.17	4.24	-3.18	-4.77	-1.87	-1.13	-2.59	-0.59	0.11	-14.02	-5.30	-0.33	-1.54	-2.17	**-51.5**
40	1508	1,6,10,13,17,21,28,34,35,37,40,43,50,54	-4.75	-0.90	-12.01	-3.43	3.80	1.11	-2.62	-6.31	-0.95	-5.57	-0.39	-1.80	-12.08	-4.31	2.45	-1.54	-2.17	**-51.5**
41	2602	2,4,3,6,10,13,17,18,20,23,27,28,31,33,37,40,43,50,54	-4.18	0.66	-12.87	-1.48	2.34	-1.46	-3.34	-3.95	-0.01	-1.87	-0.77	-1.80	-13.35	-5.30	-0.33	-1.54	-2.17	**-51.4**
42	4330	2,4,7,11,17,21,28,31,33,37,42,49,53,54	-4.96	-1.41	-11.63	-1.53	2.78	-1.46	-1.19	5.14	-3.06	-6.12	-0.21	0.11	-11.41	-9.58	-3.11	-1.54	-2.17	**-51.4**
43	4684	2,4,7,9,10,15,23,26,33,37,42,49,53,54	-4.69	-0.90	-11.25	-5.92	1.22	-3.18	-4.06	3.22	-1.50	-4.63	-0.66	0.11	-11.15	-4.97	-3.11	2.28	-2.17	**-51.4**
44	1575	1,6,10,15,23,26,33,37,42,47,50,54	-4.64	-1.67	-11.21	-5.96	0.92	-0.60	-4.06	-3.26	0.48	-3.81	-0.75	-1.80	-11.20	-6.29	2.45	2.28	-2.17	**-51.3**
45	1585	1,6,10,15,23,27,28,31,33,37,40,43,47,49,53,54	-4.27	-0.38	-11.40	-5.69	2.02	-0.60	-4.77	-1.18	-3.26	-2.16	-0.79	0.11	-11.16	-6.29	2.45	-1.54	-2.17	**-51.1**
46	2749	2,4,3,6,10,13,17,21,28,31,33,37,40,43,47,49,53,54	-4.19	0.66	-11.82	-2.12	2.84	0.25	-2.62	-4.63	-4.48	-5.55	-0.11	0.11	-11.06	-4.31	-0.33	-1.54	-2.17	**-51.1**
47	2798	2,4,3,6,10,15,23,26,31,34,35,37,42,49,53,54	-4.40	0.14	-11.03	-5.29	3.07	-3.18	-5.49	-1.58	-0.64	-4.65	-0.50	0.11	-11.11	-6.29	-0.33	2.28	-2.17	**-51.1**
48	2592	2,4,3,6,10,13,17,18,20,23,26,33,37,42,49,53,54	-4.38	-0.38	-12.69	-1.42	1.42	-3.18	-4.06	-1.87	-0.92	-4.55	-0.31	0.11	-13.32	-5.30	-0.33	2.28	-2.17	**-51.0**
49	3736	2,4,3,6,9,11,17,21,28,34,35,37,42,49,53,54	-4.62	-0.38	-11.38	-0.90	4.62	-1.46	-2.62	0.33	-2.17	-6.29	-0.07	0.11	-11.28	-10.90	-0.33	-1.54	-2.17	**-51.0**
50	3722	2,4,3,6,9,11,17,21,28,31,33,37,40,43,50,54	-4.43	0.14	-11.28	-1.20	2.72	0.25	-1.19	-1.75	-1.05	-5.58	-0.25	-1.80	-10.60	-10.90	-0.33	-1.54	-2.17	**-51.0**

The scores are not necessarily considered a definitive comparison of routes; rather, they are intended to provide an index of the relative overall impact associated with the alternatives. Typically, alternatives with scores within 10 percent of the top score are determined to warrant closer evaluation. In this case, that includes the top 33 routes. The point of this methodology is to narrow the analysis to a few routes that could then be evaluated further using the route data to make a final recommendation for a preferred route. Following is a description of the general scoring features for the project and the rationale for selecting the preferred route from these top scoring routes.

3.4.4 Selection of the Preferred Route

All of the top 1,000 routes would substantially parallel the existing line. The first route to deviate from the existing corridor is ranked 1,212th. The top scoring routes differed only in a few segment options along the existing line. Route 2842 scored -57.2 and was the top scoring route of the 5,304 that were evaluated. It is a combination of Segments 2, 4, 3, 6, 10, 15, 23, 27, 28, 31, 33, 37, 42, 49, 53, and 54. The second highest scoring route scored -56.0 and only differed from the top route by using Segment 1 instead of Segments 2, 4, and 3. Likewise, the top four routes ranged in scores from -57.2 to -55.5 and only differed in alignment at the entry point to the East Manhattan Substation and along the existing line just north of Louisville, Kansas. The route ranked fifth in the analysis had an overall score of -55.4, but the alignment east of Louisville paralleled the existing transmission corridor to the south as opposed to the north. Routes that used this alignment—a combination of Segments 40, 43, and 50—tended to score lower than routes paralleling north of the existing transmission corridor, suggesting greater impacts. After the fifth route, routes six through ten all paralleled north of the existing transmission corridor.

Considering the narrow difference in scores and alignments of the top routes, the top 0.2 percent of all routes considered were evaluated further for the preferred route.

After a careful review of all the route data for the ten top routes, Route 2828 (sixth highest scoring) was selected as the preferred. This route uses Segments 2, 4, 3, 6, 10, 15, 23, 26, 33, 37, 42, 49, 53, and 54. A detailed map showing the preferred route is shown below (Figure 3-2) and overlaid on an USGS topography map background in Appendix C (Figure C-2).

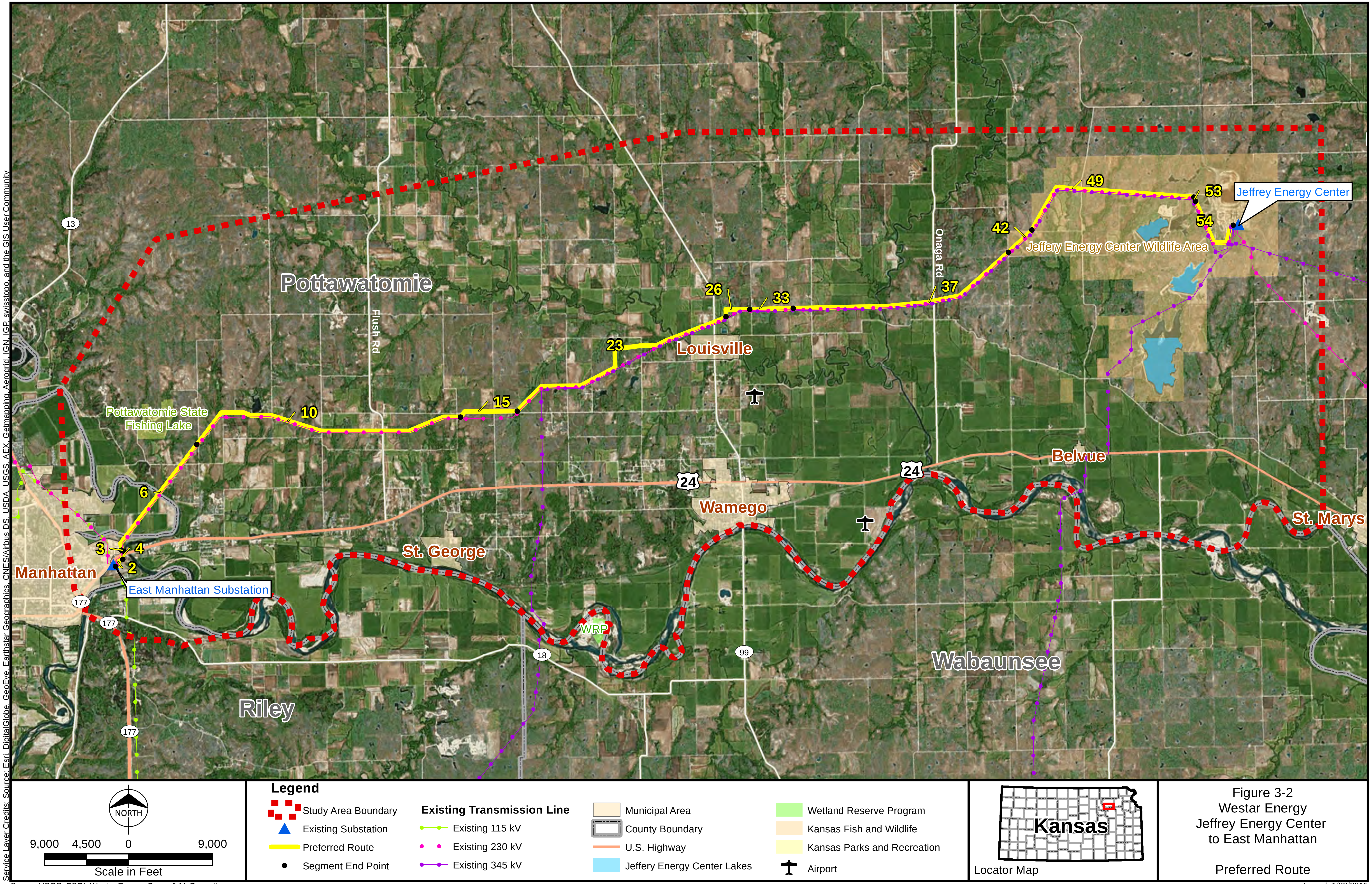


Figure 3-2
Westar Energy
Jeffrey Energy Center
to East Manhattan

Preferred Route

The only difference between the lower scoring route (Route 2842) and the preferred route (Route 2828) is the use of Segment 26 instead of Segments 27, 28, and 31. These segments occur along the existing transmission line north of Louisville. Segment 26 remains on the north side of the existing 230- and 345-kV transmission lines in that location, angles north, then turns back east around the Louisville cemetery, which abuts the existing 230-kV right-of-way. Route 2828 was the highest ranked route using Segment 26. The majority of the Louisville Township Cemetery property is along the east side of Rock Port Road. This eastern portion contains signs, fences, gravestones, and cemetery walkways. Neither the alignment, nor the proposed right-of-way for Segment 26 would be on this eastern cemetery property. The cemetery also owns a parcel on the west side of Rock Port Road. This parcel does not currently appear to have been developed by the cemetery. Segment 26 crosses this parcel along the road for approximately 500 feet. It is not anticipated that any transmission structures would be placed within this parcel's boundaries.

Because there were only two public facilities close to any of the routes evaluated, this single public facility on Segment 26 caused associated routes to fall in rank, but because the public facility would not actually be crossed, such a drop did not seem to be as significant as if the cemetery were crossed. In addition, using Segments 27, 28, and 31 instead of Segment 26 would require crossing the existing transmission corridor, containing 230- and 345-kV lines, twice. Crossing two transmission lines twice in less than 0.5-mile distance would create design and construction issues, as well as reliability concerns not present if Segment 26 were used. These were the primary reasons why Route 2828 was selected as the preferred for this project over the other top four routes.

Route 2828 also scored well for most of the impact factors. It scored in the top 5 percent of routes for total length and number streams/rivers crossed, as well had the best score for cultural resources within 0.25 mile. The visibility rating and roads crossed for Route 2828 were both within the top 10 percent of all routes evaluated, while the length paralleling transmission lines and roads, and number of heavy angles were all within the top 15 percent. Additionally, the preferred route scored within the top 25 percent of routes for residential proximity score, acres of cropland and pasture within the right-of-way, and businesses within 300 feet. Many of the respondents to the open house questionnaire indicated a high preference for following existing transmission lines, reducing visual impact, and minimizing the effects on residential and agricultural use areas, for which the preferred route ranked among the best. Additionally, reducing the total length of the line helped to reduce the overall impacts of the route. All of these factors were taken into account when selecting Route 2828 as the preferred route for this project.

4.0 AGENCY COMMENTS

Burns & McDonnell contacted agencies by letter to gather their input on potential constraints within the area and to determine what permits, clearances, and approvals would be required for the project. Following is a description of the letters sent and a summary of the responses received by the agencies.

Burns & McDonnell sent letters in July 2014 to multiple Federal, State, and local agencies, which included a JEC to East Manhattan 345/230-kV Transmission Project study area map. Letters were sent to the following agencies: USFWS, USACE, EPA, NRCS, FAA, NPS, SHPO, KDOT, KDWPT, KDA, KDHE, KBS, Pottawatomie and Riley County Planning and Zoning offices, and the City of Manhattan, Kansas. Letters requested agency input and comments on resources or concerns (i.e. natural, archaeological, and/or threatened and endangered species, where appropriate) within the study area. The agencies were also asked to provide information on Federal, State, or local permits and clearances that may be required to construct the project. In addition to these government agencies, TNC was also asked for input and comments on the project. No responses were received from the EPA, NPS, or any representative of the City of Manhattan.

A summary of the responses received is provided below. A copy of all agency correspondence received is in Appendix D.

4.1 U.S. Fish and Wildlife Service

USFWS stated a preference for the use of existing corridors, specifically the existing 230-kV transmission line corridor being replaced, to avoid further habitat disturbance and fragmentation. USFWS also discussed the possible presence of two federally listed species in the study area, the least tern and the piping plover. These species are seasonal migrants, and USFWS requested that caution be taken during routing and construction to avoid listed species habitat. Formal consultation may be required, depending on the final approved route and surveys of potential habitat located along the route. The northern long-eared bat and its habitat were also mentioned in the USFWS response letter due to the probable listing of the species in spring 2015. It was requested that care be taken to avoid any northern long-eared bat habitat during route evaluation, mainly by avoiding tree clearing where possible.

The USFWS indicated a concern about an electrocution threat to large birds of prey from electrical lines. USFWS thus recommended that guidelines be incorporated into the designs of new electrical lines, such as those found in the “Suggested Practices for Raptor Protection on Power Lines” for above-ground routes. USFWS advised that failure to use these suggested practices could result in the owner of the line being liable for any raptor electrocutions that occur on the lines. USFWS also requested that Westar be aware of any invasive species issues during construction and that care be taken to avoid impacts to migratory birds during nesting season, in accordance with the Migratory Bird Treaty Act. The recommendations in the USFWS response were provided to assist in minimizing adverse impacts resulting from the proposed project. If the project plans change, USFWS must be notified for another review.

4.2 U. S. Army Corps of Engineers

The USACE identified the need for the proposed project to cross the Kansas River. USACE stated that because it is a navigable river, such a crossing would require prior authorization from the USACE under Section 10 of the Rivers and Harbors Act and Section 404 of the Clean Water Act. USACE stated that Department of the Army permit authorization may be required if wetland areas are trenched or static plowed during construction, or if any temporary crossings, access pads, or structures were to be placed within a stream or wetland. The spanning of or directional boring under wetlands and streams may not require a permit.

4.3 Natural Resource Conservation Office

The NRCS responded by email. NRCS commented on its jurisdiction over the Farmland Policy Protection Act (FPPA). FPPA regulates the conversion of farmland to nonagricultural uses by minimizing Federal assistance used for that purpose. In its response, the NRCS mentioned a NRCS-CPA-106 form that needed to be submitted once a preferred route was selected, and recommended that Westar consider avoiding the conversion of farmland where possible.

4.4 Federal Aviation Administration

In its response, the FAA noted that the project may require notice and airspace review under the Federal Aviation Regulation Part 77, Objects Affecting Navigable Airspace. FAA recommended use of its “Notice Criteria Tool,” found online, to determine if the project would require formal filing. The FAA mentioned that all areas within 5 miles of a public use or military airport would need to be checked, along with multiple locations along the preferred route, due to the length of the project. Once filing status is determined, the FAA recommended a 120-day notification time period to accommodate its review.

4.5 State Historic Preservation Office

The Kansas SHPO recommended having a professional archeologist conduct background research of the study area to identify potential survey areas. The Kansas SHPO also commented on the fact that the study area includes the Big Blue River, the Kansas River, and Rock Creek valleys, and that any proposed route would likely involve moderate archeological potential in these areas. It recommended avoidance of those sensitive areas. The Kansas SHPO commented that Section 106 of the National Historic Preservation Act could apply to the proposed project if any Federal funding, permitting, or other Federal connection were involved.

4.6 Kansas Department of Transportation

KDOT stated that any transmission line crossing road right-of-way needs to be in compliance with the Utility Accommodation Policy that calls for lines crossing State highways to cross perpendicularly. KDOT also requested that the preferred route not cross over bridge abutments and be a minimum of 100 feet away from said abutments. Permits are required prior to the start of construction, and KDOT requested that it be kept informed on the status of the project. Within the study area, KDOT did not believe there were any scenic outlooks to avoid along U.S. Highway 24, but suggested Westar contact other local agencies and authorities to determine their requirements.

4.7 Kansas Department of Wildlife, Parks, and Tourism

KDWPT requested figures showing the section, township, and ranges for the project study area. That figure was created and sent on July 29, 2014. KDWPT used that information to review the proposed study area for potential impacts to current State-listed threatened or endangered species, species of concern, species in need of conservation, and public recreation areas under KDWPT authority. KDWPT review identified the study area land at JEC to be possible nesting habitat for the State-listed least tern, though it stated that the project was not likely to impact the species. If the least tern were to be affected, special authorizations from KDWPT would be required. The response letter ended with a list of recommendations for the project, including the avoidance of wetlands, native vegetation, timberland, and encroachment in floodplains. KDWPT also recommended the use of existing corridors, the replanting of disturbed grasslands with native forbs and grasses, and the installation of perch guards on poles with repeat avian mortality events.

4.8 Kansas Department of Agriculture

KDA sent an Agency Review Transmittal form granting clearance for the project. It also mailed a response letter that noted that the project would likely not require any KDA permitting as long as no constriction activities occur in the floodplain or floodway of the Kansas River or any stream courses encountered.

4.9 Kansas Department of Health and Environment

KDHE had no objections to the proposed project and recommended that clearance of the project be granted. KDHE Bureau of Water stated that a National Pollutant Discharge Elimination System (NPDES) permit application for storm water runoff resulting from construction activities would be required if the construction activity disturbed greater than or equal to 1 acre of land. KDHE indicated that this permit would need to be obtained by Westar prior to construction.

4.10 Kansas Biological Survey

KBS requested GIS shapefiles of the project study area to assist in its review. These files were sent August 5, 2014. KBS response indicated that it reviewed the KNHI database and found that part of the study area falls within the range of the greater prairie chicken (*Tympanuchus cupido*). This species uses prairies and grassland habitat, a land cover type that has been greatly reduced over the past century. KBS recommended avoiding these habitat areas as much as possible because greater prairie chickens do not tolerate tall, vertical structures in their habitats and have been known to avoid nesting in areas with transmission towers and wind turbines.

KBS also indicated that most of Kansas has not been surveyed, and the absence of records should not be interpreted as an indication that other rare species do not occur in the study area.

4.11 The Nature Conservancy

During its review, TNC noted that the area north of the existing 230-kV transmission line being replaced appeared to be native grasslands while the area to the south was more agricultural or developed. As a general recommendation, TNC encourages the avoidance of intact native grasslands across the State of Kansas. TNC stated that many species of birds rely on this habitat, and it is being converted at a rapid pace. Based on that information, TNC requested that Westar use areas within the study area that have already been disturbed. These locations are mainly located in the southern half of the study area, near U.S. Highway 24. TNC also recommended the use of existing transmission line corridors where possible to avoid further habitat fragmentation.

In a second letter received on December 30, 2014, TNC re-stated its preference for routes closer to more developed areas in the southern portion of the study area. TNC indicated a concern for the native grassland habitat occurring north of the existing 230-kV transmission line being replaced through this project. TNC requested that little to no new disturbance of grassland areas occur as a result of the project.

4.12 Pottawatomie County Zoning

The Pottawatomie County zoning office responded by telephone primarily. The zoning office discussed the large amount of planned residential and commercial development in the U.S. Highway 24 corridor between Manhattan and Wamego. The zoning office also mentioned several residential subdivisions that had been built along the existing Westar rights-of-way throughout the study area, though the office indicated that most of the heavy development would occur west of State Highway 99. The office then sent maps of the study area, depicting lands that had been platted for development. This information was used during the selection of a preferred route. The zoning office suggested avoiding all areas zoned for future development.

4.13 Riley County Planning and Development

The Riley County Planning and Development office noted that all utility service wires and poles are exempt from Riley County Zoning Regulations unless they are erected in a 1 percent Annual Chance floodplain. If transmission poles were to be erected within a qualifying floodplain, a permit would need to be obtained. The Riley County Planning and Development office found no other issue with the proposed project.

5.0 SUMMARY OF PUBLIC COMMENTS

This section is a summary of the responses received from the public via the open house questionnaires and additional letters or comments sent to Westar following the public open houses.

On December 3 and 4, 2014, Westar held JEC to East Manhattan 345/230-kV Transmission Project open house meetings for the at the Wamego Senior Center at 5th and Ash Streets in Wamego, Kansas. Open house participants were provided with questionnaires and asked to respond to six questions relating to the project. Participants were also asked to provide additional comments. Some participants completed the questionnaire and returned it at the open house, while others completed the questionnaire at home and mailed it to Westar offices. Some respondents did not complete all questions, so the summary of various responses may not always equal the total number of questionnaires that were received. A total of 209 questionnaires were received from the open house: 36 were collected at the December 3rd meeting, 57 were collected at the December 4th meeting, and another 116 were mailed in to Westar following the meeting. A summary of the responses by question is provided below.

5.1 Question 1

Question 1 asked respondents if they thought the need for the project had been adequately explained. Respondents marked “yes” 136 times, “no” 22 times, and “uncertain” 41 times. Many of those that answered as uncertain indicated that they wanted more information about why the new line could not be built where the existing 230-kV is currently located, that they live out of town and could not attend, or that they did not attend the meeting for some other reason. Ten respondents did not provide a response to Question 1.

5.2 Question 2

Question 2 asked respondents to rank 15 different routing factors in terms of importance from 1 to 5, with 1 being the least important and 5 being the most important. The responses are shown in Table 5-1. For example, 152 people marked that maximizing distance from residences was most important and 7 people indicated that it was the least important factor.

Table 5-1: Routing Factor Responses

Routing Factor	Least Important	Somewhat Important			Most Important	Total
	1	2	3	4	5	
a. Maximize distance from residences	7	5	11	22	152	197
b. Maximize distance from businesses	43	19	47	43	46	198
c. Maximize distance from public facilities (e.g., parks, schools, churches, cemeteries)	29	13	47	32	77	198
d. Maximize length along existing transmission lines	24	16	28	17	112	197
e. Maximize length along highways or other roads	23	26	33	42	66	190
f. Maintain reliable electric service	5	2	38	50	103	198
g. Minimize length through wetlands and number of stream / river crossings	46	43	49	23	38	199
h. Minimize length across tilled agricultural land	33	21	37	28	86	205
i. Maximize distance from center pivot irrigation systems	27	22	51	30	64	194
j. Minimize loss of trees	33	22	46	42	58	201
k. Minimize visibility of the line	27	22	32	35	86	202
l. Minimize total length of line (reducing the total cost)	41	36	47	30	52	207
m. Minimize length through grassland or pasture	50	34	41	24	56	205
n. Minimize impacts to archaeological and historic sites	36	32	49	44	39	200
o. Minimize distance through sensitive habitat areas	35	32	54	37	43	201

The rankings for each factor were then weighted according to their rank and summed. The results are sorted from most important to least important in Table 5-2. The top three rated factors were: maximizing proximity to residences, maintaining reliable electric service, and maximizing length along existing transmission lines. The least important factors were: minimizing length through wetlands and number of stream /river crossings, and minimizing length through grassland or pasture. This summation was used to help identify the weights used in the route analysis.

Table 5-2: Summation of Ranking

Routing Factor	Least Important 1	Somewhat Important 2	3	4	Most Important 5	Total
a. Maximize distance from residences	7	10	33	88	760	898
f. Maintain reliable electric service	5	4	114	200	515	838
d. Maximize length along existing transmission lines	24	32	84	68	560	768
k. Minimize visibility of the line	27	44	96	140	430	737
h. Minimize length across tilled agricultural land	33	42	111	112	430	728
c. Maximize distance from public facilities (e.g., parks, schools, churches, cemeteries)	29	26	141	128	385	709
j. Minimize loss of trees	33	44	138	168	290	673
e. Maximize length along highways or other roads	23	52	99	168	330	672
i. Maximize distance from center pivot irrigation systems	27	44	153	120	320	664
l. Minimize total length of line (reducing the total cost)	41	72	141	120	260	634
b. Maximize distance from businesses	43	38	141	172	230	624
o. Minimize distance through sensitive habitat areas	35	64	162	148	215	624
n. Minimize impacts to archaeological and historic sites	36	64	147	176	195	618
m. Minimize length through grassland or pasture	50	68	123	96	280	617
g. Minimize length through wetlands and number of stream / river crossings	46	86	147	92	190	561

5.3 Question 3

Respondents were asked to comment further on any of the 15 route factors provided in Question 2, or identify other factors that they thought should be considered. The following are a sample of the most common remarks and concerns included in this section on the questionnaires. The number in parentheses at the end of each comment denotes the number of times comments were mentioned for that particular segment.

- Follow existing lines (11)
- Very concerned about homes in the area (2)

- Optimize economic development potential of surrounding lands. “Lands” refers to the lands along the highest north corridor along both sides of Highway 24 from Manhattan to Wamego and north along Highway 99. Most suited to residential and business development.
- Maximize distance from proposed residential housing (e.g. in addition to existing homes, there are planned home sites not listed on your map. Specifically the southern route)
- Devalue property- line of sight- future expansion of feedlot and land improvement
- If the new power lines are moved, landowner will not be able to build home. The potential route runs directly down the middle of property
- The line should be left as close as possible to where it currently is. This would be the most cost effective and provide the least amount of damage to the land and environment
- While jury is still out on safety of EMF for people, there is still concern about proximity of such a high voltage line next to home (family), and horses who graze that pasture
- Wanting to maintain value on land and housing development
- Keep all utility resources in the same location. Don’t spread it around
- Stay south of the existing line. The north route is not acceptable. There are pivots for irrigation and the potential for future pivots in that area and the lines would not be helpful there
- Put lines along U.S. Highway 24
- Concerned about distance from schools/playgrounds/sidewalk for children safety- future or current
- Choice to live in a rural setting is based on having a natural surrounding and views. Having a power line within view of property is infringing on that choice. Also concerned about the impact it may have on property values
- Lines should be on Westar customer territory not through Bluestem Electric territory
- Not much timber on land. Landowner doesn’t want any more trees or wildlife habitat taken out. There are already two lines and poles going across property

5.4 Question 4

Attendees were asked to comment on specific segments and list their concern or suggestion for that particular segment. Due to the large volume of comments, a sample of the five most common responses for each segment is shown below. If fewer than five comments were left concerning a segment, all comments are shown below. Segments that were not mentioned in any questionnaire are not listed. The number in parentheses at the end of each comment denotes the number of times comments were mentioned for that particular segment. Segments 8, 23, 25, and 32 received the most comments.

Segment 5

- Impacts Highway 24 corridor plan, destroys value of county's higher value land, impacts more housing, splits land in half
- Too close to home/Too close to residence (2)
- May take an inordinate amount of highway frontage, destroying the future commercial value of the property
- Would like to see near present line
- If this route is selected it will dramatically affect the value of residential home and farm ground. Landowner plans to keep property original since land and home has been family since the 1800 (2)

Segments 6 and 7

- New line should go on north side of existing (2)
- Area has preliminary residential plat in Sec 4-10-8 and 3-10-8 (Nelson's Ridge)
- Malone Inc. planning to build home on north bank of Blue River. Move line west or complete removal would be best

Segments 8

- What type of poles will be used (double or single pole)? Subcontractors respectful of property and owners and crops? Lines going across ponds? Pole spacing, right of way, devaluation of property (4)
- Crossing lifelong unscathed property and greatly devaluing it (2)
- Should follow existing lines. Lines jeopardize the value of property (2)
- Transmission line would not be appreciated close to house. Land will be considered for conservation easement. The property is in a trust where it will be kept in a unit in perpetuity
- Abundant wildlife here. Have noted three groups of prairie chicken in the last two years. The intrinsic value of the long views cannot be calculated in this rapidly growing area

Segment 9

- Potential line cuts through the middle of land parcel. Landowner planning to build a home. The line would interfere with building plans

Segments 10 and 11

- Please use route 11 if you have to cross my property, not 10 (2)
- Close to residences
- Both these should be moved to Segment 8 away from public

Segment 12

- The pasture will be split

Segment 14

- Landowner plans to build a new home. Location of alignment is also the best home site due to Rural Water access. Concerned that lines will dramatically decrease the value of the property by eliminating the best building site on the farm (2)
- Would be exposed on hilltops
- Reduction of value of land for residential development. 12-9-9 NE quad used for landing airplanes
- Too close to two existing homes. Ham radio operator, electrical noise problems
- Segment could potentially go through native grasslands which has remained untouched, along with sensitive wetlands and habitat

Segment 15

- Currently mostly complete on building new home just feet from the proposed line and going to build another home that would be under the new power line (permit already pulled) (2)

Segment 16

- Easement would include shop and be very close to home (2)
- Follow existing route if possible

Segment 17

- Easement would be very close to house (2)

Segment 18

- Easement would be very close to house (2)

Segment 21

- Line too close to home (3)
- Would prefer to use existing easement
- This southern route would put the line on top of the hill and make it more visible
- Planned to build home
- Presently have two lines on property to the north of my house. Segment 21 runs south of the house. Concerned about the economic resale of property

Segment 22

- Decrease land value for potential development
- Too close to house, goes through property that landowner does not want disturbed.
- Too close to Wamego and Highway 24 corridor
- This land is prime land to possibly develop. Much value would be lost
- No possible building sites left, health concerns from lines

Segment 23

- Already have lines to the south, putting these on the north would mean all views would be lines (3)
- Minimizes property value. Health and physical risks are concerning
- Oregon Trail route close by on property
- Just built new home. If Segment 23 is picked, home will be between two large power lines. Horse’s bits are affected by line
- Do not want to lose the timber because of wildlife habitat and hunting

Segment 24

- This segment would run adjacent to our north property line. Purchased this property over another one that had an existing line. I think that we should minimize the building near residences, U.S. Highway 24 (2)
- This line borders my property and would reduce property values
- Segment on existing line has less impact on less people or future development
- Within 300 feet of my house. Taking out wooded hunting areas. Devaluation of property
- Too close to home, ruins view

Segments 24 and 25

- Potential route through high dollar neighborhood. Plenty of farmland where lines could be put to avoid this neighborhood (2)
- Too close to homes- removal of trees
- No one wants a transmission line running across their front yard
- Many residential areas and lots of angles. Angles are expensive to build
- Health issues, environmental issues, too close to town. The property could be used for potential housing (prime location). The existing power line location makes the most sense

Segment 25

- Too close to our home/residential area. Safety issues. Loss of property value. Ruin view. Nobody would want to buy property afterwards (3)
- Easement would abut property where there are 25-30 trees that could be affected. Trees help break up the strong spring winds that have torn off shingles twice in eight years. Trying to get more trees started, don't want any removed (3)
- Prefer to stay along existing line
- Keep landowners informed
- One residence should not have a line on two sides of property

Segment 26

- Would like the poles on property line and/or out of tilled field. Do not move the line south deeper into our farms. Would rather have it moved north onto property line or into grassland. Considering a center pivot on this farm ground (3)
- Even though it would be more than 500 feet from our home, it will de-value other homes in our subdivision which will affect our home's value
- Proposed removal of about 16.5 acres according to the computer estimate. Don't want the trees around the property all cut down, or to lose farm ground

Segment 29

- Use existing line
- Too close to home
- Many private residences to pass
- This line will be approximately 100 feet away from roping and riding arena where lessons are taught

Segment 30

- Preference would be that this line remain untouched for numerous reasons
- Landowner purchased property as an investment 12 years ago and built a home and shed and greatly improved the value. Has also considered selling some acreage by the road, if there were some lines there, that would make it not possible

Segment 32

- Too close to homes and businesses. Please build along existing line (6)
- This route seems to impact more residential properties than alternate routes or current routes already having easements and right-of-way, etc.
- Impact several more homes east of Highway 99. Irrigated ground will be impacted vs. none on existing route
- Decrease in property value and future use
- Will interfere with cropland. Use 37 or 38 instead

Segments 33 and 35

- Minimal concerns, if this route is chosen

Segment 34

- Erecting a pole barn just south of the current easement. It would likely be directly underneath the line with the use of this segment

Segment 37

- If the line is put on the north side of 37, then there is a 150 foot gap in the right-of-way

Segment 38

- The south side of 38 would allow you to release everything north of 38 with no gap. Any way to retard burning of poles when we burn pasture is important

Segment 39

- Loss of property value
- Farmland with pivots
- South alternative route makes no sense. Stay along existing route
- Crosses land near current home and even closer to planned future build site
- Do not want this line close to home. Follow the same route as the other lines

- Building along this segment

Segment 45

- Do not want to have as a route (2)
- Will ruin the view of the Oregon Trail Nature Park. Many people drive the Oregon Trail- attend park. Have plans for feedlot- line will be in the way
- Acquired land with the idea of putting in a residential development. This transmission line would affect that project in a very negative way
- Feel that line should follow already existing transmission lines where possible

Segments 46 and 48

- The only views I have will be disrupted by both lines

Segment 48

- Don’t want this line through pasture. Follow the current route on Westar land

5.5 Question 5

Respondents were asked to indicate which of the following applies to their situation: the potential line is near their home (151 respondents); the potential line is near their business (111); not affected by the potential route (3); or they are affected in another way (26). Eight respondents left this question blank. Of the 26 that answered that they were affected in another way, 10 respondents commented specifically that they would prefer the new route follow along the existing 230-kV transmission line corridor being replaced.

5.6 Question 6

Respondents were asked if they thought the open house format and information provided was helpful to their understanding of the project. Of the 209 questionnaires that were received, 150 respondents indicated that the open house format was helpful; 10 said it was not helpful; and 49 left the question blank. A total of 141 respondents indicated that the information provided was helpful; 15 said it was not helpful; and 53 left the question blank. A total of 150 respondents thought that the Westar staff was helpful; 8 said the Westar Staff was not helpful; and 51 respondents left the question blank. Many respondents that indicated that the open house format, information, and staff were not helpful indicated that they would have preferred a more formal presentation as opposed to an open house format.

5.7 Contact Information

The final portion of the questionnaire asked respondents to provide their contact information so they could be notified once the final route is selected.

5.8 Additional Comments

At the end of the questionnaire, attendees were provided extra space to express concerns or make additional comments. More than 140 additional comments were received, ranging in nature from support for the open house process, to concerns about the potential impact the new line would have on the community. The following are the most common comments received. They were summarized from the questionnaires as an overview of the responses and have been sorted by the general nature of the comment. The number in parentheses at the end of each comment denotes the number of times the same comment was mentioned.

<u>Appreciation for Open House Process</u>

- Aerial photos very helpful in pinpointing land in conjunction with power lines
- Thanks for having this meeting
- Please let us know answers to “unknowns” as they become available, i.e.: type of poles. Appreciate you hosting the open house two nights! Thank you

<u>Suggestion to Use Existing 230-kV Transmission Line Corridor</u>

- Keep lines where they are now- people moved there knowing lines/risks were there. Why move lines and affect people who do not want high power lines (3)
- Line should be built where it's already located. Westar already owns most of the property (2)
- Should be left where it is now. Westar only needs to get 50 more feet of right-of-way. The houses were built there knowing that line was there. We live in a rural area and enjoy the view and do not want that taken away, or land devalued, or trees destroyed (2)
- It looks like the existing route is best/most logical to reuse (2)
- They should run the new lines where the existing lines are, as it probably wouldn't affect as many people
- Leave and build with existing. Most building was done knowing lines were already there (4)
- Why don't you put this on an existing route- north route? That is the only good choice. No pivots. Won't ruin homes or parks. Thank you
- Use existing line (38)

- Please stick to current easement location to minimize damage to environment and problems you would create for new property owners
- The proposed north route crosses much territory that Westar does not directly serve, whereas south, the old route, they at least have Westar service. I pay a much higher Bluestem rate

General Suggestion for Line Location

- Would like to avoid the crop land on Segment 32
- Best choice for the line would be the far south route near Highway 29. Next best choice would be south of existing lines. North route is not acceptable at all (2)
- Keep on existing route or move south. Do not want new lines on Segment 6 or 7. This area will be platted for further development of Nelson's Ridge. Preference is for south route- Segment 5
- Seems that the new line should be built (constructed) to the north out of the population and for future growth
- Don't want it on the north line at all. Use the south route by Highway 24 please (2)
- Northern route looks best. Fewer land owners, fewer people, houses, etc
- Take the northern route, less homes and will take longer for development to reach that far (2)

Concern for a Specific Property or Area

- Current and proposed residential building is heavy along Vineyard Rd and Elm Slough. Lines will or could affect many homes in that area. New line route as far north of U.S. Highway 24 would have less impact
- We accepted lines to the south as our main views are to the north, uninterrupted by any structures. Please do not surround us with power lines
- Purchased land specifically years ago because nothing was there. Build along the old lines (2)
- New home being constructed along Segment 11
- Recently purchased this property and would not have if we would have known this was a possibility (6)
- Segment 10 puts power lines in front yards and takes out many trees. Landowner home positioned according to Westar lines and moving them would remove trees

Concern for Impact to Property Value and General Concerns

- Everyone wants electricity but no poles and wire in their backyard. Studies have shown that animals, pasture crops, are not adversely affected by the EMF. Therefore, staying away from homes, shops, sheds, by 500 feet would be the best route to minimize the use of land around small acreages/subdivisions and less overall property degradation

- Considering adding another pivot to irrigate farm ground and another large metal shed. Since landowners gave up 160 acres for JEC, they feel they have sacrificed enough to supply electricity. Property value reduction is also a concern (2)
- Built home to maximize the view. If the segment above is selected, we will be staring at high voltage lines. How will you compensate homeowners for reduced property value
- Already has an existing line on property. Does not want another. Landowner feels it will make property useless
- Landowner consulted with realtors who have said that they could see anywhere from 10 to 25% property valuation reduction on a $350,000 property ($35k-88k) just because of the close proximity of the line. Landowner also listens to AM radio in flower garden 75 feet from the easement and is concerned about disruption of the AM signal
- Need written information about legal rights, lost benefits, and reimbursement if result is lower property values. Also rates paid to use certain tracts of land
- Don't devalue property and timber
- The farm has possible archaeological significance (2)

In addition to the questionnaires, some open house attendees also provided comments at one of five computer stations present at each meeting. Using these stations, landowners were able to comment on their specific property. Figure 5-1 shows comments collected at the computer stations. These comments were sorted by category and provide a visual display of areas with high comment concentration.

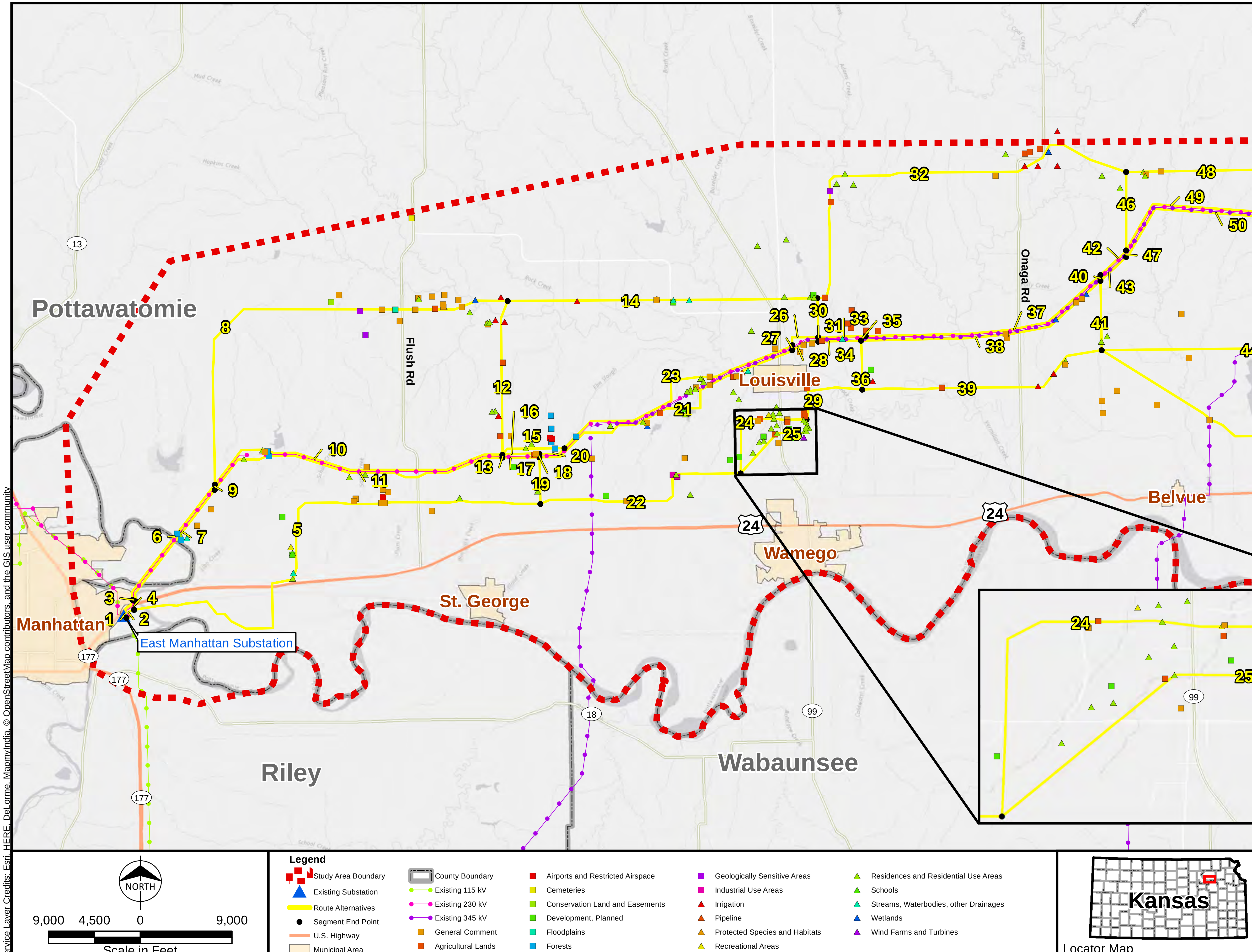


Figure 5-1
Westar Energy
Jeffrey Energy Center
to East Manhattan

Computer Station Comments

Issued: 1/26/2015

Source:USGS, ESRI, Westar Energy, Burns & McDonnell

Path: R:\Westar\79804_JEC_EManhattan\GIS\DataFiles\ArcDocs\ReportFigures\Figure5-1_ComputerStationComments.mxd ebrenna 1/26/2015

Service Layer Credits: Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors, and the GIS user community

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APPENDIX A - SOILS WITHIN THE STUDY AREA

Map Unit Symbol	Soil Map Unit	Hydrologic Soil Group	Farmland Classification
2284	Wann fine sandy loam, channeled	B	Not prime farmland
3775	Muir silt loam, rarely flooded	B	All areas are prime farmland
3900	Ortello fine sandy loam, 3 to 7 percent slopes	A	All areas are prime farmland
3902	Ortello fine sandy loam, 7 to 12 percent slopes	A	Farmland of statewide importance
4018	Chase silty clay loam, very rarely flooded	D	All areas are prime farmland
4350	Chase silty clay loam, rarely flooded	C	All areas are prime farmland
4525	Benfield silty clay loam, 3 to 7 percent slopes	D	All areas are prime farmland
4530	Benfield-Florence complex, 5 to 30 percent slopes	D	Farmland of statewide importance
4545	Clime silty clay loam, 20 to 40 percent slopes, stoney	D	Farmland of statewide importance
4590	Clime-Sogn complex, 3 to 20 percent slopes	D	Farmland of statewide importance
4783	Tully silty clay loam, 3 to 7 percent slopes	C	All areas are prime farmland
4786	Tully silty clay, 3 to 7 percent slopes, eroded	C	Farmland of statewide importance
4830	Wamego silt loam, 3 to 7 percent slopes	D	All areas are prime farmland
4831	Wamego silt loam, 7 to 20 percent slopes	D	Farmland of statewide importance
7005	Bourbonais-Bismarckgrove complex, occasionally flooded	C	All areas are prime farmland
7006	Bismarckgrove silt loam, occasionally flooded	C	All areas are prime farmland
7028	Belvue silt loam, occasionally flooded	B	All areas are prime farmland
7031	Eudora silt loam, occasionally flooded	B	All areas are prime farmland
7036	Eudora-Bismarckgrove silt loams, occasionally flooded	C	All areas are prime farmland
7040	Zeandale silt loam, occasionally flooded	B	All areas are prime farmland
7050	Kennebec silt loam, occasionally flooded	C	All areas are prime farmland
7051	Kennebec silt loam, frequently flooded	B	Not prime farmland
7055	Kimo silty clay loam, occasionally flooded	D	All areas are prime farmland
7058	Stonehouse-Belvue complex, occasionally flooded	A	All areas are prime farmland
7061	Muscotah silty clay loam, occasionally flooded	C	All areas are prime farmland
7085	Sarpy sand, frequently flooded	A	Farmland of statewide importance
7088	Stonehouse sand, occasionally flooded	A	Not prime farmland
7091	Wabash silty clay, occasionally flooded	D	Prime farmland if drained
7099	Zook silty clay loam, occasionally flooded	C/D	Prime farmland if drained
7104	Belvue silt loam, rarely flooded	B	All areas are prime farmland
7105	Belvue silt loam, escarpment, 2 to 12 percent slopes	B	Farmland of statewide importance
7106	Eudora-Bismarckgrove silt loams, rarely flooded	B	All areas are prime farmland
7107	Bismarckgrove-Kimo complex, rarely flooded	C	All areas are prime farmland
7119	Eudora-Urban land complex, rarely flooded	B	Not prime farmland
7123	Eudora silt loam, rarely flooded	B	All areas are prime farmland
7132	Stonehouse-Eudora complex, rarely flooded	A	All areas are prime farmland
7155	Kimo silty clay loam, rarely flooded	D	All areas are prime farmland
7171	Reading silt loam, moderately wet, rarely flooded	C	All areas are prime farmland
7173	Reading silty clay loam, rarely flooded	B	All areas are prime farmland
7176	Rossville silt loam, very rarely flooded	B	All areas are prime farmland
7208	Muscotah silty clay loam, very rarely flooded	D	All areas are prime farmland
7209	Muscotah silty clay, very rarely flooded	D	All areas are prime farmland
7213	Reading silt loam, moderately wet, very rarely flooded	C	All areas are prime farmland
7214	Eudora silt loam, very rarely flooded	B	All areas are prime farmland
7240	Elmont silty clay loam, 3 to 7 percent slopes	C	All areas are prime farmland
7241	Elmont silty clay loam, 3 to 7 percent slopes, eroded	C	Farmland of statewide importance
7265	Gymer silty clay loam, 3 to 7 percent slopes	C	All areas are prime farmland
7424	Morrill clay loam, 3 to 7 percent slopes, eroded	C	Farmland of statewide importance
7433	Morrill loam, 3 to 7 percent slopes	C	All areas are prime farmland
7438	Morrill loam, 5 to 20 percent slopes, stony	C	Not prime farmland
7455	Olmitz loam, 1 to 5 percent slopes	B	All areas are prime farmland
7500	Pawnee clay loam, 1 to 3 percent slopes	C/D	All areas are prime farmland
7501	Pawnee clay loam, 4 to 8 percent slopes	C	Farmland of statewide importance
7530	Sharpsburg silt loam, 1 to 4 percent slopes	C	All areas are prime farmland
7650	Thurman loamy fine sand, 3 to 8 percent slopes	A	Farmland of statewide importance
7680	Wymore silty clay loam, 0 to 1 percent slopes	D	All areas are prime farmland
7681	Wymore silty clay loam, 1 to 3 percent slopes	D	All areas are prime farmland
7683	Wymore silty clay loam, 3 to 6 percent slopes	D	All areas are prime farmland
7687	Wymore variant, fine sandy loam, 1 to 3 percent slopes	D	All areas are prime farmland

APPENDIX B - COUNTY THREATENED AND ENDANGERED SPECIES INFORMATION

Kansas Department of Wildlife, Parks and Tourism

Pottawatomie County

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Threatened and Endangered (T&E) Species

STURGEON CHUB *Macrhybopsis gelida*
State: Threatened **Federal:** Candidate **Critical Habitat:** Yes

SHOAL CHUB *Macrhybopsis hyostoma*
State: Threatened **Federal:** N/A **Critical Habitat:** Yes

PLAINS MINNOW *Hybognathus placitus*
State: Threatened **Federal:** N/A **Critical Habitat:** Yes

SILVER CHUB *Macrhybopsis storeriana*
State: Endangered **Federal:** N/A **Critical Habitat:** Yes

TOPEKA SHINER *Notropis topeka*
State: Threatened **Federal:** Endangered **Critical Habitat:** Yes

LEAST TERN *Sterna antillarum*
State: Endangered **Federal:** Endangered **Critical Habitat:** Yes

PIPING PLOVER *Charadrius melodus*
State: Threatened **Federal:** Threatened **Critical Habitat:** Yes

EASTERN SPOTTED SKUNK *Spilogale putorius*
State: Threatened **Federal:** N/A **Critical Habitat:** No

AMERICAN BURYING BEETLE *Nicrophorus americanus*
State: Endangered **Federal:** Endangered **Critical Habitat:** No

ESKIMO CURLEW *Numenius borealis*
State: Endangered **Federal:** Endangered **Critical Habitat:** No

SNOWY PLOVER *Charadrius alexandrinus*
State: Threatened **Federal:** N/A **Critical Habitat:** No

Species In Need of Conservation (SINC)

Southern Bog Lemming *Synaptomys cooperi*
State: SINC **Federal:** N/A **Critical Habitat:** No

Whip-poor-will *Camprimulgus vociferus*
State: SINC **Federal:** N/A **Critical Habitat:** No

Yellow-throated Warbler *Dendroica dominica*
State: SINC **Federal:** N/A **Critical Habitat:** No

Black Tern *Chlidonias niger*
State: SINC **Federal:** N/A **Critical Habitat:** No

Short-eared Owl *Asio flammeus*
State: SINC **Federal:** N/A **Critical Habitat:** No

Franklin's Ground Squirrel *Spermophilus franklinii*
State: SINC **Federal:** N/A **Critical Habitat:** No

Golden Eagle *Aquila chrysaetos*
State: SINC **Federal:** N/A **Critical Habitat:** No

Highfin Carpsucker *Carpiodes velifer*
State: SINC **Federal:** N/A **Critical Habitat:** No

Timber Rattlesnake *Crotalus horridus*
State: SINC **Federal:** N/A **Critical Habitat:** No

Southern Redbelly Dace *Phoxinus erythrogaster*
State: SINC **Federal:** N/A **Critical Habitat:** No

Blue Sucker *Cycleptus elongatus*
State: SINC **Federal:** N/A **Critical Habitat:** No

Eastern Hognose Snake *Heterodon platirhinos*
State: SINC **Federal:** N/A **Critical Habitat:** No

Common Shiner *Luxilus cornutus*
State: SINC **Federal:** N/A **Critical Habitat:** No

Johnny Darter *Etheostoma nigrum*
State: SINC **Federal:** N/A **Critical Habitat:** No

Bobolink *Dolichonyx oryzivorus*
State: SINC **Federal:** N/A **Critical Habitat:** No

Kansas Department of Wildlife, Parks and Tourism

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County

Threatened and Endangered (T&E) Species

STURGEON CHUB *Macrhybopsis gelida*
State: Threatened **Federal:** Candidate **Critical Habitat:** Yes

SHOAL CHUB *Macrhybopsis hyostoma*
State: Threatened **Federal:** N/A **Critical Habitat:** Yes

PLAINS MINNOW *Hybognathus placitus*
State: Threatened **Federal:** N/A **Critical Habitat:** Yes

SILVER CHUB *Macrhybopsis storeriana*
State: Endangered **Federal:** N/A **Critical Habitat:** Yes

TOPEKA SHINER *Notropis topeka*
State: Threatened **Federal:** Endangered **Critical Habitat:** Yes

LEAST TERN *Sterna antillarum*
State: Endangered **Federal:** Endangered **Critical Habitat:** Yes

PIPING PLOVER *Charadrius melodus*
State: Threatened **Federal:** Threatened **Critical Habitat:** Yes

EASTERN SPOTTED SKUNK *Spilogale putorius*
State: Threatened **Federal:** N/A **Critical Habitat:** No

WHOOPING CRANE *Grus americana*
State: Endangered **Federal:** Endangered **Critical Habitat:** No

AMERICAN BURYING BEETLE *Nicrophorus americanus*
State: Endangered **Federal:** Endangered **Critical Habitat:** No

ESKIMO CURLEW *Numenius borealis*
State: Endangered **Federal:** Endangered **Critical Habitat:** No

SNOWY PLOVER *Charadrius alexandrinus*
State: Threatened **Federal:** N/A **Critical Habitat:** No

Species In Need of Conservation (SINC)

Ozark Emerald Dragonfly *Somatochlora ozarkensis*
State: SINC **Federal:** N/A **Critical Habitat:** No

Prairie Mole Cricket *Gryllotalpa major*
State: SINC **Federal:** N/A **Critical Habitat:** No

Southern Bog Lemming *Synaptomys cooperi*
State: SINC **Federal:** N/A **Critical Habitat:** No

Western Hognose Snake *Heterodon nasicus*
State: SINC **Federal:** N/A **Critical Habitat:** No

Whip-poor-will *Camprimulgus vociferus*
State: SINC **Federal:** N/A **Critical Habitat:** No

Yellow-throated Warbler *Dendroica dominica*
State: SINC **Federal:** N/A **Critical Habitat:** No

Black Tern *Chlidonias niger*
State: SINC **Federal:** N/A **Critical Habitat:** No

Short-eared Owl *Asio flammeus*
State: SINC **Federal:** N/A **Critical Habitat:** No

Ferruginous Hawk *Buteo regalis*
State: SINC **Federal:** N/A **Critical Habitat:** No

Franklin's Ground Squirrel *Spermophilus franklinii*
State: SINC **Federal:** N/A **Critical Habitat:** No

Golden Eagle *Aquila chrysaetos*
State: SINC **Federal:** N/A **Critical Habitat:** No

Highfin Carpsucker *Carpiodes velifer*
State: SINC **Federal:** N/A **Critical Habitat:** No

Timber Rattlesnake *Crotalus horridus*
State: SINC **Federal:** N/A **Critical Habitat:** No

Southern Redbelly Dace *Phoxinus erythrogaster*
State: SINC **Federal:** N/A **Critical Habitat:** No

Blue Sucker *Cycleptus elongatus*
State: SINC **Federal:** N/A **Critical Habitat:** No

Eastern Hognose Snake *Heterodon platirhinos*
State: SINC **Federal:** N/A **Critical Habitat:** No

Greenside Darter *Etheostoma blennioides*
State: SINC **Federal:** N/A **Critical Habitat:** No

Common Shiner *Luxilus cornutus*
State: SINC **Federal:** N/A **Critical Habitat:** No

Johnny Darter *Etheostoma nigrum*
State: SINC **Federal:** N/A **Critical Habitat:** No

Black Rail *Laterallus jamaicensis*
State: SINC **Federal:** N/A **Critical Habitat:** No

Bobolink *Dolichonyx oryzivorus*
State: SINC **Federal:** N/A **Critical Habitat:** No

Henslow's Sparrow *Ammodramus henslowii*
State: SINC **Federal:** N/A **Critical Habitat:** No

Long-billed Curlew *Numenius americanus*
State: SINC **Federal:** N/A **Critical Habitat:** No

APPENDIX C - DETAILED ROUTE MAPS

Contents of Appendix C:

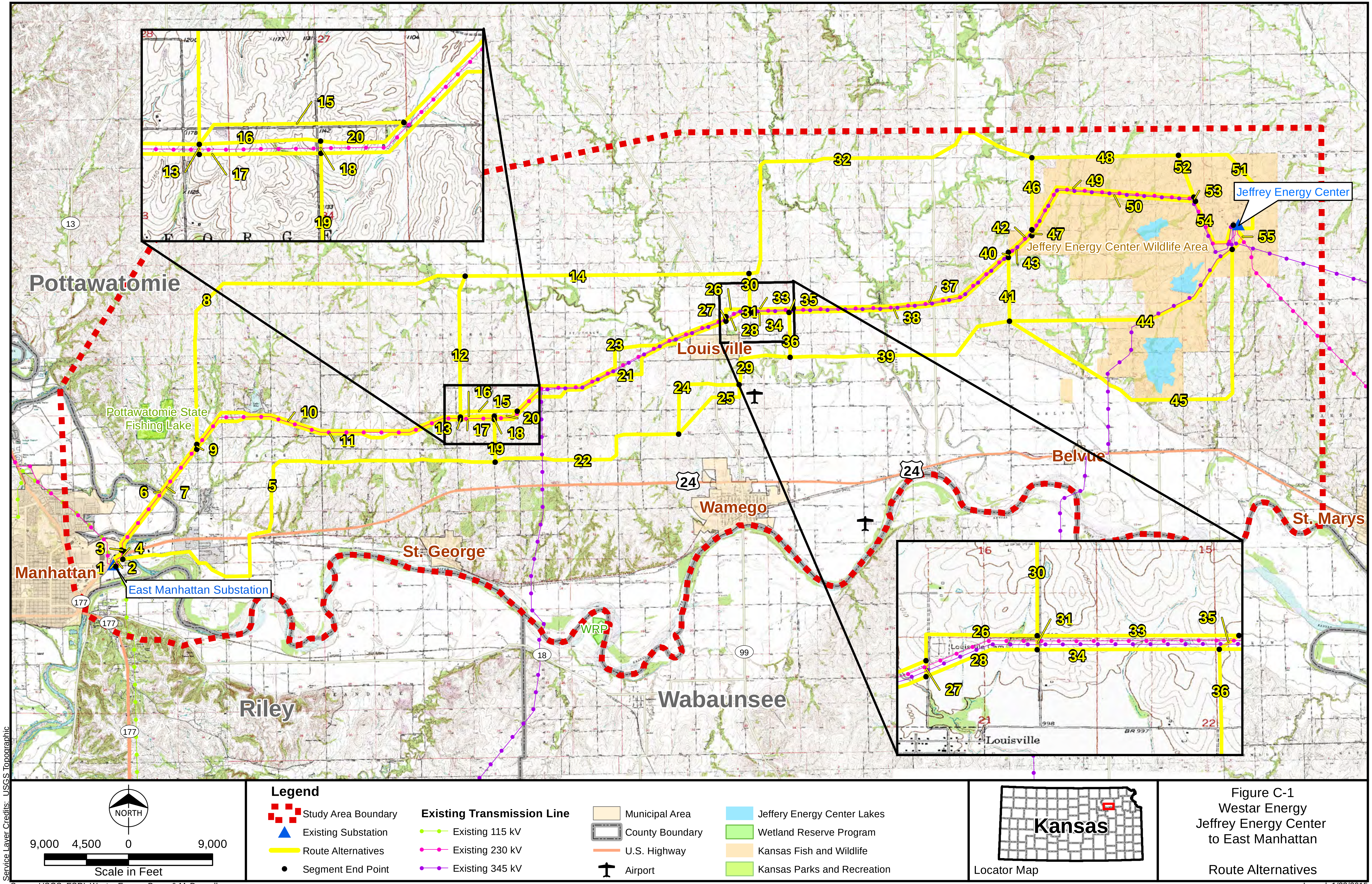


Figure C-1
Westar Energy
Jeffrey Energy Center
to East Manhattan

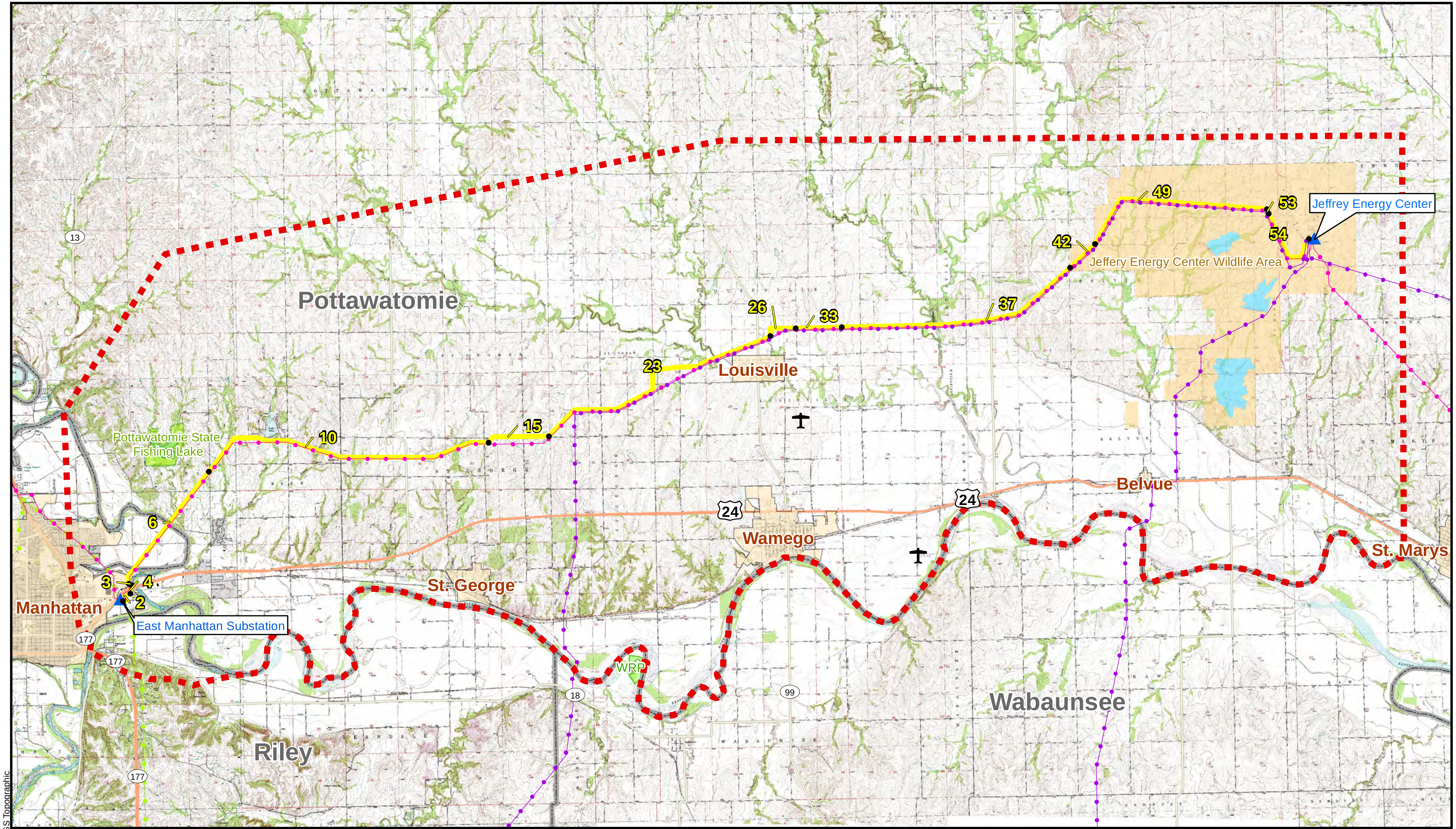
Route Alternatives

Path: R:\Westar\79804_JEC_EManhattan\GIS\DataFiles\ArcDocs\ReportFigures\FigureC-1_AlternativeRoutes.mxd ebrenna 1/22/2015

Service Layer Credits: USGS Topographic

Source:USGS, ESRI, Westar Energy, Burns & McDonnell

Issued: 1/22/2015



NORTH

9,000 4,500 0 9,000

Scale in Feet

Legend

- Study Area Boundary
- Existing Substation
- Preferred Route
- Segment End Point

Existing Transmission Line

- Existing 115 kV
- Existing 230 kV
- Existing 345 kV

- Municipal Area
- County Boundary
- U.S. Highway
- Jeffery Energy Center Lakes
- Wetland Reserve Program
- Kansas Fish and Wildlife
- Kansas Parks and Recreation
- Airport

Kansas

Locator Map

Figure C-2
Westar Energy
Jeffrey Energy Center
to East Manhattan

Preferred Route

Path: R:\Westar\79804_JEC_EManhattan\GIS\DataFiles\ArcDocs\ReportFigures\FigureC-2_PreferredRoute.mxd ebrenna 1/22/2015

Service Layer Credits: USGS Topographic

Source:USGS, ESRI, Westar Energy, Burns & McDonnell

Issued: 1/22/2015

APPENDIX D - AGENCY CORRESPONDENCE

Contents of Appendix D:

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- Response from U.S Fish and Wildlife Service
- Response from U.S. Army Corps of Engineers
- Response from Federal Aviation Administration
- Response from Kansas State Historical Preservation Office
- Response from Kansas Department of Transportation
- Response from Kansas Department of Wildlife, Parks, and Tourism
- Response from Kansas Department of Agriculture
- Response from Kansas Department of Health and Environment
- Response from Kansas Biological Survey
- Response from The Nature Conservancy
- Pottawatomie County Zoning
- Response from Riley County Planning and Development

Burns & McDonnell
SINCE 1898

January 9, 2015

Ms. Agency Personnel
District Manager
Kansas Department
1000 Contact Ave.
Topeka, KS 66003

Request for Information: JEC to East Manhattan Transmission Line Project
Pottawatomie County, Kansas
BMcD Project number: 79804

Dear Sir or Madam,

Burns & McDonnell has been retained by Westar Energy to conduct a routing study to rebuild an existing 230-kV overhead transmission line that is located between the existing Jeffery Energy Center (JEC) Substation located approximately 5 miles north of Bellevue, Kansas and the existing East Manhattan Substation located on the east side of Manhattan, Kansas. The objective of the study is to identify a route for a transmission line that will replace the existing 230 kV transmission line. Your input will assist us with the completion of this effort.

The new transmission line will be designed and constructed to allow a future conversion from 230 kV voltage to 345 kV voltage. Westar has not been given a timeline for a conversion, but feels it is not likely to occur within the next 10 years. Westar has also indicated that the existing 230 kV line cannot be removed from service for extended periods of time and must stay energized while the new transmission line is constructed. The new transmission line will need to be constructed on a separate right-of-way corridor. When the new transmission line is put into service, the existing 230 kV line will be removed.

The proposed project area is located in Pottawatomie County, Kansas. The new transmission line would be approximately 30 miles in length, and would require a total right-of-way width of 150 feet. Please refer to the enclosed study area map for the location and additional details of the project area.

Input from your agency regarding human, cultural, and natural resources in the study area, specifically state or federally-listed threatened or endangered species, dense residential areas, airports, and state lands, will assist us in the route selection and environmental documentation necessary for the project. In addition, please identify any federal, state, or local permits/clearances that may be required to construct this project.

We appreciate your assistance. If you have any questions or require additional technical information, please contact Ellen Brenna at ebrenna@burnsmcd.com or by phone at (816) 447-9948. Otherwise, we would appreciate if you could provide written comments to Ellen Brenna, Burns & McDonnell, 9400 Ward Parkway, Kansas City, MO 64114.

We would appreciate receipt of comments by August 15, 2014. Thank you for your time and assistance.

Sincerely,

Jamie L. Precht

Jamie Precht
Project Manager

Enclosure

Westar Energy- JEC to East Manhattan
345/230 kV Transmission Line Project
Table D-1: Address List of Recipients

Agency	Office	Position	Title	First	Last	Address	City	State	Zip_Code	Phone	Letter	Comments
Environmental Protection Agency	Region 7	Region 7 Administrator	Mr.	Karl	Brooks	11201 Renner Blvd.	Lenexa	KS	66219	913-551-7006		
National Parks Service	Midwest Region	Midwest Regional Director	Mr.	Michael	Reynolds	601 Riverfront Drive	Omaha	NE	68102	402-661-1736		
U.S. Fish and Wildlife Service	Kansas Ecological Services Field Office	Field Supervisor	Ms.	Heather	Whitlaw	2609 Anderson Avenue	Manhattan	KS	66502	785-539-3474		
The Nature Conservancy	Kansas Chapter	Conservation Projects Coordinator	Mr.	Jim	Hays	2420 NW Button Rd	Topeka	KS	66618	785-233-4400		New address request: Jim Hays 943 SE 120th St. Leon, KS 67074
U.S. Army Corps of Engineers	Kansas State Regulatory Office	Kansas State Program Manager	Mr.	Thomas	Schumann	2710 NE Shady Creek Access Road	El Dorado	KS	67042	316-322-8247		
Kansas Department of Agriculture	Division of Water Resources	Chief Engineer, Division of Water Resources	Mr.	David	Barfield	1320 Research Park Dr.	Manhattan	KS	66502	785-564-6640		
Kanas Department of Agriculture	Division of Conservation	Executive Director, Division of Conservation	Mr.	Greg	Foley	1320 Research Park Dr.	Manhattan	KS	66502	785-564-6620		
Kansas Histrorical Society	State Historic Preservation Office	State Historic Preservation Officer	Ms.	Jennie	Chinn	6425 Southwest 6th Ave	Topeka	KS	66615	785-272-8681 Ext. 205		
Kansas Department of Health and Environment	Division of Environment	Director, Division of Environment	Mr.	John	Mitchell	1000 SW Jackson, Suite 400	Topeka	KS	66612	785-296-1535		
Natural Resource Conservation Service	NRCS Kansas State Office	State Conservationist	Mr.	Eric B.	Banks	760 South Broadway	Salina	KS	67401	785-823-4565		
Federal Aviation Administration	FAA Central Region	Regional Administrator	Mr.	Joe	Miniace	901 Locust St	Kansas City	MO	64106	816-329-3050		
Kansas Biological Survey	Kansas Natural Heritage Inventory	Information Manager, Natural Heritage Inventory	Ms.	Jennifer M.	Delisle	Higuchi Hall 2101 Constant Ave.	Lawrence	KS	66047	785-864-1500		
Kansas Biological Survey	Kansas Natural Heritage Inventory	Senior Scientist, Natural Heritage Inventory	Ms.	Kelly	Kindscher	Higuchi Hall · 2101 Constant Ave.	Lawrence	KS	66047	785-864-1529		
Kansas Department of Wildlife, Parks, and Tourism	Operations Office	Ecologist	Mr.	David	Bender	512 SE 25th Ave	Pratt	KS	67124			
Pottawatomie County Zoning Department	Pottawatomie County Zoning Office	Pottawatomie County Zoning Administrator	Mr.	Gregg	Webster	207 N 1st St	Westmoreland	KS	66549	785-457-3551		
Riley County Zoning Department	Riley County Zoning	Zoning Director	Mr.	Monty	Wedel	110 Courthouse Plaza	Manhattan	KS	66502	785-537-6332 Ext. 7503		
Kansas Department of Wildlife, Parks, and Tourism	Region 2					300 SW Wanamaker Road	Topeka	KS	66606	785-273-6740		
Kansas Department of Transportation	District One	District One Engineer	Mr.	Mike	Stringer	121 SW 21st St	Topeka	KS	66612	785-296-3881		
Manhattan, Kansas	Engineering Office	City Engineer	Mr.	Brian	Johnson	1101 Poyntz Ave	Manhattan	KS	66502	785-587-2415		
Manhattan, Kansas	Office of City Manager	City Manager	Mr.	Ron	Fehr	1101 Poyntz Ave	Manhattan	KS	66502	785-587-2404		
Manhattan, Kansas	Mayor's Office	Mayor	Mr.	Wynn	Butler	1101 Poyntz Ave	Manhattan	KS	66502	785-587-2404		

Burns & McDonnell
SINCE 1898

January 9, 2015

Ms. Agency Personnel
District Manager
Kansas Department
1000 Contact Ave.
Topeka, KS 66003

Request for Information: JEC to East Manhattan Transmission Line Project
Pottawatomie County, Kansas
BMcD Project number: 79804

Dear Sir or Madam,

Burns & McDonnell has been retained by Westar Energy to conduct a routing study to rebuild an existing 230-kV overhead transmission line that is located between the existing Jeffery Energy Center (JEC) Substation located approximately 5 miles north of Bellevue, Kansas and the existing East Manhattan Substation located on the east side of Manhattan, Kansas. The objective of the study is to identify a route for a transmission line that will replace the existing 230 kV transmission line. Your input will assist us with the completion of this effort.

The new transmission line will be designed and constructed to allow a future conversion from 230 kV voltage to 345 kV voltage. Westar has not been given a timeline for a conversion, but feels it is not likely to occur within the next 10 years. Westar has also indicated that the existing 230 kV line cannot be removed from service for extended periods of time and must stay energized while the new transmission line is constructed. The new transmission line will need to be constructed on a separate right-of-way corridor. When the new transmission line is put into service, the existing 230 kV line will be removed.

The proposed project area is located in Pottawatomie County, Kansas. The new transmission line would be approximately 30 miles in length, and would require a total right-of-way width of 150 feet. Please refer to the enclosed study area map for the location and additional details of the project area.

Input from your agency regarding human, cultural, and natural resources in the study area, specifically state or federally-listed threatened or endangered species, dense residential areas, airports, and state lands, will assist us in the route selection and environmental documentation necessary for the project. In addition, please identify any federal, state, or local permits/clearances that may be required to construct this project.

We appreciate your assistance. If you have any questions or require additional technical information, please contact Ellen Brenna at ebrenna@burnsmcd.com or by phone at (816) 447-9948. Otherwise, we would appreciate if you could provide written comments to Ellen Brenna, Burns & McDonnell, 9400 Ward Parkway, Kansas City, MO 64114.

We would appreciate receipt of comments by August 15, 2014. Thank you for your time and assistance.

Sincerely,

Jamie L. Precht

Jamie Precht
Project Manager

Enclosure

United States Department of the Interior

FISH AND WILDLIFE SERVICE

Kansas Ecological Services Office
2609 Anderson Avenue
Manhattan, Kansas 66503-6172

August 1, 2014

Jamie Precht
Project Manager
Burns & McDonnell
9400 Ward Parkway
Kansas City, MO 64114

RE: JEC to East Manhattan Transmission Line Project 64411-2014-CPA-0554

Dear Mr. Precht:

This is in response to your letter of July 18, 2014, requesting Fish and Wildlife Service review and comment on proposed installation and improvement of electrical facilities in Pottawatomie County, Kansas. Westar Energy proposes to construct approximately 30 miles of new 230 kV transmission line (with capability for a future conversion to 345 kV) between Jeffrey Energy Center between Bellevue and Emmett, and the existing East Manhattan Substation. You have requested information to assist in identifying an appropriate corridor for both line segments.

Because of potential impacts to native habitats, strong consideration should be given to paralleling the existing transmission line corridors. Westar has stated the existing line cannot be taken out of service for the length of time required to build the new line, necessitating a separate right-of-way. However, keeping the new alignment as close as feasibly possible to the existing one will reduce the need for new habitat disturbance and contribute less to overall habitat fragmentation.

In accordance with section 7 of the Endangered Species Act, we determined that the federally listed least tern and piping plover may occur as seasonal migrants in the project area. Please consider impacts to these species in your evaluation, particularly with any line segments occurring within one mile of open water. If it is determined there may be adverse effects to any listed species, formal consultation may be required between the Service and any federal agency involved with permitting or authorizing this project.

The northern long-eared bat (NLEB), which occurs in Pottawatomie County, is currently proposed for listing under the Endangered Species Act. The final listing decision for the NLEB is expected in March 2015. At this time, no critical habitat has been proposed for the NLEB. During the summer, NLEB typically roost singly or in colonies in cavities, underneath bark, crevices, or hollows of both live and dead trees and/or snags (typically ≥3 inches dbh). Males and non-reproductive females may also roost in cooler places, like caves and mines. This bat seems opportunistic in selecting roosts, using tree species based on presence of cavities or crevices or presence of peeling bark. It has also been occasionally found roosting in structures like barns and sheds (particularly when suitable tree roosts are unavailable). They forage for insects in upland and lowland woodlots and tree lined corridors. During the winter, NLEBs predominately hibernate in caves and abandoned mine portals. Additional habitat types may be identified as new information is obtained. In the meantime, avoiding alignments that require tree clearing would help avoid potential impacts.

Species proposed for listing are not afforded protection under the ESA; however as soon as a listing becomes effective, the prohibition against jeopardizing its continued existence and "take" applies regardless of an action's stage of completion. If a federal agency retains any discretionary involvement or control over on-the-ground actions that may affect the species after listing, section 7 applies. Therefore, if suitable NLEB habitat is present within any alternate routes selected, we recommend further coordination with our office to avoid potential project delays should the species be listed. Additional information can be found at (http://www.fws.gov/midwest/endangered/mammals/nlba/index.html).

Electrical distribution lines are known to pose the threat of electrocution to large birds of prey which use the poles, crossarms, and wires as perching sites. I recommend that you incorporate guidelines into the design and construction activities such as those found in the Avian Power Line Interaction Committee's publication, "Suggested Practices for Raptor Protection on Power Lines". These guidelines, which are available at www.aplic.org/, should be applied on all above-ground line segments to help ensure that the proposed facilities will have little significant effect on resident and migrant raptors, such as hawks, eagles, and owls. Utilization of these guidelines is a matter of company discretion, but be advised the failure to use them could result in the electric cooperative being held liable for any raptor electrocutions which occur on these lines.

Please consider the applicability of this project to the Migratory Bird Treaty Act, which prohibits the taking of migratory birds, eggs, young, and/or active nests. Bird nests may be encountered in prairies, wetlands, stream and woodland habitats, as well as on bridges and other structures. While the provisions of MBTA are applicable year-round, most migratory bird nesting activity in Kansas occurs April 1 to July 15. Keep in mind that some migratory birds are known to nest outside these dates, so a field assessment may be necessary. If any project appears likely to impact nesting birds, I recommend a survey to determine the presence of active nests. Our office should be contacted immediately for further guidance if a survey identifies the existence of one or more active bird nests that you believe cannot be avoided temporally or spatially by the planned activities.

Invasive species have been identified as a major factor in the decline of native flora and fauna and impact aquatic resources. Information on aquatic invasive species in Kansas can be found on KDWPT website http://www.kdep.state.ks.us/news/fishing/aquatic_nuisance_species. I recommend the following proactive measures to prevent the inadvertent spread of exotic and invasive species:

All equipment brought on site will be thoroughly washed to remove dirt, seeds, and plant parts. Any equipment that has been in any body of water within the past 30 days will be thoroughly cleaned with hot water greater than 140° F (typically the temperature found at commercial car washes) and dried for a minimum of five days before being used at this project site. In addition, before transporting equipment from the project site all visible mud, plants and fish and animal parts will be removed, all water will be eliminated, and the equipment will be thoroughly cleaned. Anything that came in contact with water will be cleaned and dried following this procedure.

The recommendations provided in this letter are to assist you in minimizing adverse impacts resulting from this project. Should project plans be modified, please provide this office with the changes for further review. Thank you for this opportunity to provide comments.

Sincerely,

Daniel W Mulhern / Acting

Heather Whitlaw
Field Supervisor

cc: KDWPT, Pratt, KS (Ecological Services)

DEPARTMENT OF THE ARMY
KANSAS CITY DISTRICT, CORPS OF ENGINEERS
REGULATORY BRANCH-KANOPOLIS REGULATORY FIELD OFFICE
107 RIVERSIDE DRIVE
MARQUETTE, KANSAS 67464

July 28, 2014

REPLY TO
ATTENTION OF:

Kanopolis Regulatory Field Office
(NWK-2014-00941)
(Pottawatomie, Riley Counties, KS, NPR)

Jamie Precht
Burns & McDonnell
9400 Ward Parkway
Kansas City, Missouri 64114

Dear Mr. Precht:

This is in reply to your letter dated July 18, 2014, on behalf of Westar Energy requesting comments concerning a routing study to rebuild an existing 30 mile long 230-kV overhead transmission line from the Jeffery Energy Center to the East Manhattan substation. The new transmission line will be constructed on a separate right-of-way corridor and will be designed to allow a future conversion from 230-kV to 345-kV. As shown on the provided maps, the project is located in Pottawatomie and Riley Counties.

The Corps of Engineers has jurisdiction over all waters of the United States. Discharges of dredged or fill material in waters of the United States, including wetlands, require prior authorization from the Corps under Section 404 of the Clean Water Act (33 USC 1344). The implementing regulation for this Act is found at 33 CFR 320-332.

If you choose to aerially span or use directional boring as your method of installation for crossing streams and wetlands, Department of the Army permit authorization would not be required. However, if you intend to trench or static plow through any streams or wetlands (including dry ephemeral or intermittent streams), or construct any temporary crossings, access pads, structures, or place any poles within a stream or wetland, then Department of the Army permit authorization may be required and an application should be submitted. However, other Federal, state and/or local permits may be required and you should verify this yourself.

> *Kansas River:* Any work or structures in, over, or under a navigable water of the United States require prior authorization from the Corps of Engineers under Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403). The Kansas River has been determined to be a navigable water and therefore Department of the Army permit authorization would be required.

We are interested in your thoughts and opinions concerning your experience with the Kansas City District, Corps of Engineers Regulatory Program. Please feel free to complete an electronic version of our Customer Service Survey form on our website at: http://corpsmapu.usace.army.mil/cm_apex/f?p=regulatory_survey. You may call and request a paper copy of the survey which you may complete and return to us by mail or fax.

If you have any questions concerning this matter, please feel free to contact me at 785-546-2130 (FAX 785-546-2050). Please reference Permit No. 2014-00941 in all comments and/or inquiries relating to this project.

Sincerely,

Steven Whetzel

Steven Whetzel
Regulatory Specialist
Kanopolis Regulatory Field Office

Copies Furnished (electronically w/o enclosures):

Department of Defense Clearinghouse

U.S. Department
of Transportation

**Federal Aviation
Administration**

Central Region
Iowa, Kansas,
Missouri, Nebraska

901 Locust
Kansas City, Missouri 64106

JUL 2 1 2014

Ms. Jamie L. Precht
Burns & McDonnell
9400 Ward Parkway
Kansas City, MO 64114

Dear Ms. Precht:

We have received your letter of July 18, 2014, regarding your proposed project to rebuild an overhead transmission line between Jeffery Energy Center (JEC) Substation and East Manhattan Transmission Line in Pottawatomie County, Kansas, BMcD Project #79804. We generally do not provide comments from an environmental standpoint.

The project may require formal notice and review for airspace review under Federal Aviation Regulation (FAR) Part 77, Objects Affecting Navigable Airspace. To determine if you need to file with FAA, go to http://oeaaa.faa.gov and click on the "Notice Criteria Tool" found at the left-hand side of the page.

Multiple locations will need to be checked because of the length of the route. You should check portions of the route within 5 miles of a public-use or military airport. Airport locations can be found using the "Circle Search for Airports" tab on the left side of the previously mentioned webpage.

If after using the tool, you determine that filing with FAA is required, we recommend a 120-day notification to accommodate the review process and issue our determination letter. Proposals may be filed at http://oeaaa.faa.gov.

We hope this adequately addresses your concerns.

for Joseph N. Miniace
Regional Administrator

6425 SW 6th Avenue
Topeka, KS 66615

Kansas

phone: 785-272-8681
fax: 785-272-8682
cultural_resources@kshs.org

Kansas Historical Society

Sam Brownback, Governor
Jennie Chinn, Executive Director

KSR&C No. 14-07-170

July 25, 2014

Ellen Brenna
Burns & McDonnell
9400 Ward Parkway
Kansas City, MO 64114-3319

RE: Transmission Line Routing Study
JEC to East Manhattan
Pottawatomie County

Dear Ms. Brenna:

The Kansas State Historic Preservation Office has received a letter from Jamie Precht dated July 18, 2014 regarding the above-referenced project. Our small staff lacks the resources to research such a large study area and the variety of topographic features it encompasses. All we can offer at this point are a few general observations. We note that the proposed study area crosses the Big Blue River, and encompasses both the Kansas River and Rock Creek valleys, along with smaller perennial drainages. Numerous recorded archeological sites are present, especially in the Big Blue and Rock Creek valleys. In those and other areas, potential for unrecorded sites is high. We therefore recommend that a professional archeologist (such as those employed by your firm) conduct a file search at the Kansas State Historical Society of the study area. Upon completing the site file search, the archeologist should arrange a meeting with the Historic Preservation Office staff to discuss the results of the search and the areas determined to be of high and moderate potential for containing cultural resources. At that time, we can provide assistance regarding selection of a route for the proposed transmission line and with delineation of any potential survey areas.

Since this project will likely require only state and/or county level permits our agency has no legal authority to compel the project's developer to fund either background research or an archeological survey. However, given the potential impact to cultural resources (especially in the Big Blue, Kansas River, and Rock Creek valleys) we strongly encourage that course of action If any federal funds are to be used or if any federal permits (such as a Section 404 permit from the Corps of Engineers) might ultimately be required, then Section 106 of the National Historic Preservation Act will apply.

Any archeologist meeting the Minimum Professional Qualifications of this office as outlined in *The State Historic Preservation Officer's Guide For Archeological Survey, Assessment, and Reports* (SHPO's Guide), is eligible to perform the requested work. A list of archeological contractors (including your firm) meeting these standards is available from our web site at: http://www.kshs.org/p/archeological-consultants/14593.

This information is provided at your request to assist you in identifying historic properties, as specified in 36 CFR 800 for Section 106 consultation procedures. If you have questions or need additional information regarding these comments, please contact Tim Weston at 785-272-8681 (ext. 214) or Kim Gant at 785-272-8681 ext. 225. Please refer to the Kansas Review & Compliance number (KSR&C#) above on all future correspondence relating to this project.

Sincerely,

Jennie Chinn, Executive Director and
State Historic Preservation Officer

Timothy Weston
for

Patrick Zollner
Deputy SHPO

Kansas
Department of Transportation
District 1

121 S.W. 21st Street
Topeka, KS 66612

Phone: 785-296-3881
Fax: 785-296-1162
Hearing Impaired - 711
publicinfo@ksdot.org
http://www.ksdot.org

Mike King, Secretary
Michael J. Stringer, P.E., District Engineer

Sam Brownback, Governor

July 31, 2014

Burns & McDonnell
Attn: Jamie Precht
9400 Ward Parkway
Kansas City, MO 64114

Dear Sir:

RE: Request for Information: JEC to East Manhattan Transmission Line Project
Pottawatomie County, Kansas
BMcD Project # 79804

Kansas Department of Transportation is interested in reviewing the proposed routing of your transmission line. Any transmission line crossing KDOT right-of-way shall be in compliance with the Utility Accommodation Policy (UAP). The UAP calls for lines crossing state highways to cross perpendicular with regard to the highway center line. It is requested that transmission lines not route over bridge abutments and that the line route a minimum of 100' to the land side of the bridge abutment. Permits are requested prior to the time of construction, it is necessary to include KDOT in the routing discussion. KDOT requests to review the proposed line routing for compliance with the UAP before the routing is set as final. Any exceptions to the UAP requirements must have prior review and changes may be requested.

We do not believe there are any scenic out looks to be concerned with north of US-24 between JEC and the city of Manhattan. We do not know what other agencies or local authorities would require and suggest you contact them directly.

If you have any questions, please contact me at (785) 296-3881.

Sincerely,

Charlotte "Angel" Fitzgerald
District Office Coordinator

CC: Ellen Brenna - Burns & McDonnell – via email
Mark Karolevitz, Area Engineer – Wamego Area Office – via email
Dale Kirmer, Staff Engineer, Bureau of Maintenance – via email
File

Operations Office
512 SE 25th Ave.
Pratt KS 67124-8147

Kansas
Department of Wildlife, Parks and Tourism

Phone: 620-672-5911
Fax: 620-672-6020
www.ksoutdoors.com

Robin Jennison, Secretary | Sam Brownback, Governor

September 16, 2014

Jamie Precht
Burns & McDonnell
9400 Ward Parkway
Kansas City, Missouri 64114

Ref: D5.0303
Pottawatomie
Track: 20140910

Ref: JEC to East Manhattan Transmission Line Project, BMcD 79804

Dear Ms. Precht:

We have reviewed the information for the JEC to East Manhattan transmission line rebuild project Line Project beginning in Section 8, Township 10 South, Range 8 East and ending in Section 7, Township 9 South, Range 12 East in Pottawatomie County. The project was reviewed for potential impacts on crucial wildlife habitats, current state-listed threatened and endangered species and species in need of conservation, and Kansas Department of Wildlife, Parks and Tourism managed areas for which this agency has administrative authority.

We note that the plans include rebuilding an existing 230 kV transmission line on a new corridor. We cannot make a complete determination of the potential impacts to state-listed species and natural resources without detailed design plans, including where the new line will be located and a description of the construction plans. In addition, our state list often changes and as such we recommend frequent communication with our department as the date to construction nears. Currently, the only state-listed species that could potentially be impacted as a result of this project is the Interior Least Tern, *Sterna antillarum,* which uses certain areas of the Jeffery Energy Center for nesting habitat. In the meantime, we recommend implementing the following measures to reduce any impacts as the project is developed:

- **Avoid or minimize the removal of native upland or riparian hardwood timber and vegetation**.
- **Strictly follow the road right-of-way whenever possible**
- **Avoid/Minimize impacts to existing wetlands, springs or areas that pond water (e.g. filling)**
- **Avoid instream and stream bank disturbances**
- **Avoid encroachment or development in floodplains**
- **Replant grassland disturbances with native grasses and forbs, we recommend NRCS practice 643**
- **Install perch guards on poles with repeat avian mortality**

Thank you for the opportunity to provide these comments and recommendations.

Sincerely,

David Bender

David Bender, Ecologist
Ecological Services Section

Cc: Eric Johnson, Westar Energy

PRINT SAVE RESET

1320 Research Park Drive
Manhattan, Kansas 66502
(785) 564-6700

Kansas
Department of Agriculture
agriculture.ks.gov

900 SW Jackson, Room 456
Topeka, Kansas 66612
(785) 296-3556

Jackie McClaskey, Secretary

Governor Sam Brownback

AGENCY REVIEW TRANSMITTAL FORM

Date: 8/8/14

Project Title: JEC to East Manhattan Transmission Line Project Pottawatomie County, KS

Contact: Ellen Brenna

Return To: Burns & McDonnell
9400 Ward Parkway
Kansas City, MO 64114

Phone: 816-447-9948 **Fax:**

AGENCY REVIEW COMMENTS

Comments: No Comment

RECOMMENDED ACTION COMMENTS

- [x] Clearance of the project should be granted.
- [ ] Clearance of the project should not be granted.
- [ ] Clearance of the project should be delayed until the issues or questions have been clarified.
- [ ] Request a State Process Recommendation in concurrence with above comments.
- [ ] Clearance of the project should not be Delayed but the Applicant should (in the final application) address or clarify the questions or concerns.
- [ ] Request the opportunity to review the final application prior to submission to the federal funding agency.

Greg A. Foley

Greg A. Foley, Executive Director
Division of Conservation

1320 Research Park Drive
Manhattan, Kansas 66502
(785) 564-6700

Kansas
Department of Agriculture
agriculture.ks.gov

123 Landon Building
Topeka, Kansas 66612
(785) 123-4567

Jackie McClaskey, Secretary

Governor Sam Brownback

Ella Brenna
Burns & McDonnell
9400 Ward Parkway
Kansas City, MO. 64114-3319

August 18, 2014

RE: Transmission Line Routing Study
Project # 79804

Dear Ms. Brenna:

This will acknowledge receipt of a letter and attachment on July 22, 2014 from Project Manager, Jamie Precht, concerning the transmission line routing study for a new 230-kV line to be built between the existing Jeffery Energy Center Substation 5 miles north of Bellevue, Kansas, and the existing East Manhattan Substation located on the east side of Manhattan, Kansas, replacing the existing line.

Based upon the information provided, it does not appear that the project will require any permitting from this Agency as long as none of the construction associated with the new transmission line occurs in the floodplain or floodway of the stream courses that will be encountered.

This Agency is not responsible for threatened or endangered species.

Sincerely,

Bob Lytle

Bob Lytle
Environmental Scientist
Kansas Department of Agriculture
Division of Water Resources

Division of Environment
Curtis State Office Building
1000 SW Jackson St., Suite 400
Topeka, KS 66612-1367

Kansas
Department of Health & Environment

Phone: 785.296.1535
Fax: 785.296.8464
www.kdheks.gov

Robert Moser, MD, Secretary

Sam Brownback, Governor

August 14, 2014

Jamie Precht, Project Manager
Burns & McDonnell
9400 Ward Parkway
Kansas City, MO 6411-3319

Re: JEC to East Manhattan Transmission Line Project, Pottawatomie, KS
BMcD Project number:79804

Dear Ms. Precht:

Please see the following comments submitted by Don Carlson, Bureau of Water.

I have no objection to the proposal but offer the following comments for review and consideration:

Any construction activity which disturbs one acre or more is required to file a National Pollutant Discharge Elimination System (NPDES) permit application for stormwater runoff resulting from construction activities. The project owner (party responsible for the project) must obtain authorization from KDHE to discharge stormwater runoff associated with construction activities prior to commencing construction.
The Kansas construction stormwater general permit, a Notice of Intent (application form), a frequently asked questions file and supplemental materials are on-line on the KDHE Stormwater Program webpage at www.kdhe.state.ks.us/stormwater. Answers to questions regarding or additional information concerning construction stormwater permitting requirements can be obtained by calling 785.296.5549.

Sincerely,

Donna Fisher
Director's Office

DC/df

Bureau of Environmental Remediation
Curtis State Office Building
1000 SW Jackson St., Suite 410
Topeka, KS 66612-1367

Robert Moser, MD, Secretary

Kansas
Department of Health and Environment

phone: 785-291-3249
fax: 785-296-4823
mchace@kdheks.gov
www.kdheks.gov

Sam Brownback, Governor

MEMORANDUM

TO: Donna Fisher

CC: Joe Dom → File:
Pal Company Inc. C4-075-71313 (1)
Manhattan PWS #12 & #13 C4-075-03003 (1)
Coin-o-Matic Laundry C5-081-00624 (1)
Stickel Cleaners C5-081-71238 (1)
Cinderella Cleaners C5-081-70782 (1)
Fairlane Salvage C5-081-03009 (1)
Manhattan Avenue Battery Site C5-081-70792 (1)

FROM: Mandi Chace

DATE: July 30, 2014

RE: Intergovernmental Agency Review requested by Westar Energy for Overhead Transmission Line Construction located in Pottawatomie County, Kansas

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The Kansas Department of Health and Environment (KDHE), Bureau of Environmental Remediation (BER), Assessment and Restoration Section, Response and Remediation Unit, has identified five (5) known contaminated drycleaner facilities and two (2) known Superfund facilities within about five (5) miles of the proposed project. The facilities include the following:

Pal Company Inc. C4-075-71313
Manhattan PWS #12 & #13 C4-075-03003
Coin-o-Matic Laundry C5-081-00624
Stickel Cleaners C5-081-71238
Cinderella Cleaners C5-081-70782
Fairlane Salvage C5-081-03009
Manhattan Avenue Battery Site C5-081-70792

KDHE-BER does not oppose overhead transmission line construction located near the known contaminated drycleaner facilities. However, KDHE-BER notes that the proposed project activities may encounter contamination attributed to drycleaner facilities.

Staff members or representatives from Westar Energy are welcome to come and view the KDHE/BER files in accordance with the Kansas Open Records Act. Please contact me by telephone at (785) 291-3249 or by e-mail at mchace@kdheks.gov if you have any questions.

Division of Environment
Curtis State Office Building
1000 SW Jackson St., Suite 400
Topeka, KS 66612-1367

Kansas

Phone: 785.296.1535
Fax: 785.296.8464
www.kdheks.gov

Robert Moser, MD, Secretary | Department of Health & Environment | Sam Brownback, Governor

Comments by: KDHE

Transmittal Date: August 14, 2014

This form provides notification and the opportunity for your agency to review and comments on this proposed project as required by Executive Order 12372. Review Agency, please complete Parts II and III as appropriate and return to contact person listed below. Your prompt response will be appreciated.

Return To: Jamie Precht, Project Manager
Burns & McDonnell
9400 Ward Parkway
Kansas City, MO 6411-3319

PART I **REVIEW AGENCIES/COMMISSION**

___Aging
___Agriculture
___Biological Survey
___Conservation Commission
___Corporation Commission
___Education
___Geological Survey, KS
_X_Health & Environment
___Historical Society
___Social & Rehabilitation
___State Forester
___Transportation
___Water Office, KS
___Wildlife & Parks
___Commerce

PART II **AGENCY REVIEW COMMENTS**

COMMENTS: (Attach additional sheet if necessary) Re: JEC to East Manhattan Transmission Line Project, Pottawatomie County, Kansas, BMcD Project number: 79804
Please see the enclosed comments submitted by Mandi Chace, Bureau of Environmental Remediation and Don Carlson, Bureau of Water.

PART III
RECOMMENDED ACTION COMMENTS:

_X_Clearance of the project should be granted.

___Clearance of the project should not be granted.

___Clearance of the project should be delayed until the issues or questions above have been clarified.

___Request a State Process Recommendation in concurrence with the above comments.

___ Clearance of the project should not be delayed but the Applicant should (in the final application) address and clarify the question or concerns indicated above.

___Request the opportunity to review final application prior to submission to the federal funding agency.

DIVISIONS/ AGENCY/ COMMISSION

John W. Mitchell

John W. Mitchell, Director
Division of Environment

JWM/df

The University of Kansas

Kansas Biological Survey

August 7, 2014

Ms. Ellen Brenna, Assistant Environmental Scientist
Burns & McDonnell
9400 Ward Parkway
Kansas City, MO 64114-3319

RE: Request for information
Transmission Line Routing Study (JEC to East Manhattan)
Project number: 79804

Dear Ms. Brenna;

I have reviewed the Kansas Natural Heritage Inventory database for records of state and federal threatened, endangered, and special concern species at the referenced site. I am providing you with a single ESRI shapefile showing locations of rare plant and animal species in three project areas (JEC to East Manhattan, Viola to Clearwater, and Viola to Sumner County). These data are for your internal use only and should not be distributed to any other person or agency. The data should not be displayed in maps or documents distributed outside your company.

Part of the JEC to Manhattan project falls within the range of the Greater prairie chicken (*Tympanuchus cupido*). Please contact the Kansas Dept. of Wildlife, Parks and Tourism for the most recent data on locations of leks in the project area. Prairies and CRP grasslands in the project area are likely to provide habitat for this species, which has experienced dramatic range reductions in North America over the past century. As birds of open grasslands, prairie chickens do not tolerate tall, vertical structures in their habitats and may avoid areas around wind turbines and transmission towers. It has been estimated that prairie chickens may not nest within 1+ miles of a wind tower, and avoid power lines and improved roads as well. To protect the habitat of prairie chickens as well as other native wildlife, the Kansas Biological Survey strongly recommends that project development occur in areas that previously have been disturbed by cultivation or other development.

Please consult the Kansas Natural Resource Planner for additional information to assist in your planning process. This mapping application is a partnership between the Kansas Biological Survey's KARS program and the Kansas Dept. of Wildlife, Parks and Tourism and can be found at this URL: http://kars.ku.edu/maps/naturalresourceplanner/.

Most of Kansas has not been surveyed for rare species and their habitats; absence of records should not be interpreted as an indication that rare species do not occur in any particular area. For a list of protected animal species known or likely to occur in Pottawatomie County please go to http://kdwpt.state.ks.us/Services/Threatened-and-Endangered-Wildlife/List-of-all-Kansas-Counties. This project lies outside the geographic range of any protected plant species.

Higuchi Hall • 2101 Constant Ave., Room 108 • Lawrence, KS 66047-3759
(785) 864-1500 • Fax: (785) 864-1534 • www.kbs.ku.edu

If playas occur in the project area, please be aware that bird use in these habitats could be high at certain times of the year. Please contact the U.S. Fish and Wildlife Service for guidelines on ways to minimize impacts to birds.

Thank you for providing the Kansas Biological Survey with the opportunity to comment on this proposed project. Please give me a call at 785-864-1538 if I can be of further assistance.

Sincerely,

Jennifer M. Delisle
Information Manager
Kansas Natural Heritage Inventory

Higuchi Hall • 2101 Constant Ave., Room 108 • Lawrence, KS 66047-3759
(785) 864-1500 • Fax: (785) 864-1534 • www.kbs.ku.edu

The Nature Conservancy
Protecting nature. Preserving life.™

Jim Hays
943 SE 120th St.
Leon, KS 67074

jim_hays@tnc.org
cell: [620]388-4613
nature.org/Kansas

September 11, 2014

Ms. Ellen Brenna
Burns & McDonnell
9400 Ward Parkway
Kansas City, Mo. 64114
Re: BMcD Project number: 79804

Dear Ms. Brenna,

Thank you for the opportunity to review the proposed transmission line project linking the existing Jeffery Energy Center (JEC) Substation to the existing East Manhattan Substation. The project plans to replace the existing 230 kV transmission line between the two Substations, in Pottawatomie County.

We have reviewed the proposed study area and note that north of the existing 230 kV transmission line, native grasslands appear to be the dominant land cover, while south of the existing line - croplands are more prevalent. As a general recommendation, The Nature Conservancy (TNC) encourages avoidance of existing intact, warm season grasslands for development projects of any kind, across the state. Grassland birds, both migrant and indigenous species, rely heavily on undisturbed native grasslands and warm season CRP plantings to maintain self-sustaining populations. This suite of avian fauna has become an elevated concern across North America, due to the continuing conversion and disturbance of their native habitat – warm season grasslands.

Consequently, TNC would encourage replacement of this transmission line into areas that have already been disturbed; i.e. existing croplands, adjacent to existing roads and highways, paralleling existing utility line corridors, etc. Utilizing the Natural Resources Planner, we see that there is an existing 345 kV line that runs mostly east/west; located to the south of the transmission line in question. Paralleling this existing line in some fashion would impact fewer native grassland acres; rather than creating a new transmission line – to the north of the line that is proposed for replacement. In this regard, we suggest locating the replacement line between US-24 and the existing 345 kV line mentioned above, for your consideration.

The Conservancy appreciates the opportunity to provide comments on this project. Please feel free to contact me with any questions you may have regarding them.

Sincerely,

Jim Hays
Conservation Projects Coordinator
The Nature Conservancy, Kansas Chapter

The Nature Conservancy
Protecting nature. Preserving life.™

Jim Hays
943 SE 120th St.
Leon, KS 67074

jim_hays@tnc.org
Cell: [620]388-4613
nature.org/Kansas

December 30, 2014

Mr. Eric Johnson
Westar Energy
Biology Program Coordinator
818 S. Kansas Ave.
Topeka, KS 66601

Dear Mr. Johnson,

Thank you for the opportunity to review the proposed routes for a transmission line project linking the existing Jeffery Energy (JEC) Substation to the existing East Manhattan Substation. The project plans to replace the existing 230 kV transmission line with a 345 kV line between the two Substations, in Pottawatomie County.

We have assessed the potential routes and note that the proposed alignment north of the present 230 kV transmission line, as well as, the existing transmission line; traverses predominately native grasslands. As a general recommendation, The Nature Conservancy (TNC) encourages avoidance of existing intact, warm season grasslands for development projects of any kind, across the state. Grassland birds, both migrant and indigenous species, rely heavily on undisturbed native grasslands and warm season CRP plantings to maintain self-sustaining populations. This suite of avian fauna has become an elevated concern across North America, due to the continuing conversion and disturbance of their native habitat – warm season grasslands.

TNC would encourage replacement of this transmission line into areas that have already been disturbed; i.e. existing croplands, adjacent to existing roads and highways, paralleling existing utility line corridors, etc. Our analysis indicates the proposed alignment between Highway 24 and the existing 230 kV line, would affect significantly fewer intact prairie grassland acres. And, as such, the Conservancy recommends it over the northern-most proposed route and replacement of the line on the current 230 kV alignment. We would further recommend removal of the current line; thereby reducing fragmentation effects on established intact grasslands.

The Nature Conservancy appreciates the opportunity to provide comments on this project. Please feel free to contact me with any questions you may have regarding them.

Sincerely,

Jim Hays

Jim Hays
Conservation Projects Coordinator
The Nature Conservancy, Kansas Chapter

JEC to East Manhattan- 79804
Telephone Memorandum
Greg Webster
Pottawatomie County Zoning Department

At 11:40am on Wednesday August 20th, 2014 Ellen Brenna spoke with Mr. Greg Webster in the Pottawatomie County Zoning Office about the request for information agency letter we sent out in late July, 2014.

He mentioned that there were many new developments planned within our study area over the next ten years. He also stated that there is currently a subdivision, partially built and currently under construction, being placed on both sides of the existing Westar parallel 230 and 345 kV transmission lines through the area. That existing 345 kV transmission line is the one being replaced through this project. He stated that homes were being built directly along that line's right-of-way, hindering BMcD and Westar's plans to parallel it.

Mr. Webster stated that most of the development was occurring closer to the city of Manhattan, KS, as well as along Hwy 24 in the south and western portions of our study area. He said that most of the "heavy development" was currently planned and plotted to occur west of Hwy 99 and south of the existing Westar transmission corridor. This area encompasses approximately a quarter of our current study area.

During the conversation, Mr. Webster stated that the areas to the northwest of the existing Westar transmission corridor, as well as to the east of Hwy 99 were not experiencing any new development and that they shouldn't cause any issues for the project.

As a deliverable, Mr. Webster promised to send along a map of our study location with the existing and planned subdivision data incorporated. He said that he could include address point for any plotted lots that currently do not have homes built. He planned to get that map out sometime next week (8/25-8/29.

Finally, he stated that he would be more than willing to sit down with the project team and explain where and when these new developments will be constructed. I told him that we may be interested in doing so in the future and made sure that he is our contact for future correspondence.

RILEY COUNTY
PLANNING & DEVELOPMENT

Monty R. Wedel, AICP
Director
110 Courthouse Plaza
Manhattan, Kansas 66502
Phone: 785-537-6332
Fax: 785-537-6331
E-mail: mwedel@rileycountyks.gov
Website: www.rileycountyks.gov/planning

July 22, 2014

Ellen Brenna
Burns & McDonnell
9400 Ward Parkway
Kansas City, MO 64114

Dear Ms. Brenna:

This letter is in response to your Request for Information: JEC to East Manhattan Transmission Line Project received in our office on July 22, 2014. This is to inform you that utility service wires and poles are exempt from all Riley County Zoning Regulations, with the following exception. If a pole is to be erected within a designated 1% Annual Chance floodplain in Riley County, a Floodplain Development Permit shall be obtained prior to erection of the structure.

At this time, I do not have any additional information to provide regarding the proposed project. If you have questions or desire additional information, please let me or my staff know. Thanks for the request for information.

Sincerely,

Monty R. Wedel

Monty R. Wedel

Copy: Riley County Planning & Development Staff

APPENDIX E - PUBLIC INVOLVEMENT MATERIALS

Contents of Appendix E:

- Open House Landowner Notification Letter
- Project Fact Sheet
- Routing Process Handout
- Sample Questionnaire

Nov. 12, 2014

Name
Address
City, ST ZIP

Dear _____,

We are making an upgrade to the transmission system in your area and are considering new routes on or near your property. Please join us to learn more about this project.

In the early 1980s, Westar Energy built a large power line to carry electricity from Jeffrey Energy Center to Manhattan. In the past few years, the demand for power has increased and the line needs to be replaced. We are developing a plan to replace the entire 27 mile power line so we can keep electricity in your area reliable.

Enclosed, you'll see a map that shows the *potential* routes for the new power line in green. It may look a bit overwhelming; however, keep in mind these are our *potential* routes. We want you to help us determine which route to build. Please join us for an open house to discuss routes for the new power line.

- **Who is invited?** Landowners and residents along the potential routes are receiving this letter of invitation. Anyone is welcome to attend.
- **When and where is the open house?** 4 to 7 p.m. Dec. 3 and 4 at the Wamego Area Senior Citizens/Community Center, 501 Ash St. in Wamego. Come and go during that time at your convenience.

Your attendance is important to us. Here are a few reasons why:

- Help us determine the preferred route from those shown on the map.
- Complete a survey about how routes are evaluated.
- Learn about the logistics and benefits of the project.
- Learn how the project could affect your land.
- Share your concerns and questions

We look forward to meeting with you at the open house. If you have any questions prior to our open houses, please contact Johnny Onstead at (904) 571-9269 of jonstead@twinpeaksfieldservices.com.

Sincerely,

Westar Energy.
Taking energy to heart.

Building better reliability.

THE JEFFREY ENERGY CENTER TO EAST MANHATTAN 230kV/345kV TRANSMISSION PROJECT WILL PROVIDE THE RELIABLE ENERGY NEEDED FOR A GROWING KANSAS.

The lack of high-voltage transmission lines in north-central Kansas causes inefficiencies that can impact the reliability of electrical service. The Jeffrey Energy Center to East Manhattan transmission upgrade will help ease congestion across the network and improve the delivery of power to customers. It will benefit residents and businesses in central Kansas and beyond by strengthening the regional high-voltage grid, bringing improved reliability and helping to provide access to a wider range of cost-effective generation sources. It will provide tax revenue, construction jobs and local expenditures. It also will expand capabilities for future investment in area industry.

THE PROJECT

The Jeffrey Energy Center to East Manhattan project will replace an existing transmission line that was built in the early 1980s. The Southwest Power Pool (SPP) has directed Westar Energy, Inc. (Westar) to replace the transmission line with a new transmission line that will carry more electricity. The new transmission line will be designed and constructed using specifications that will allow the line to operate at a higher voltage (345kV) to carry more electricity if needed in the future. Westar will continue to operate the transmission line at the existing voltage (230kV) until the SPP determines a need to convert it to the higher voltage. No significant upgrades are necessary at the substations located on each end of the transmission line with this project. The new transmission line will continue to move electrical power between the Jeffrey Energy Center substation and the East Manhattan substation.

THE ROUTING PROCESS

A routing study identifies many potential routes intended to minimize adverse impacts to residents, their land and the natural environment while providing a technically viable and cost-effective transmission line. As part of the review/input process, Westar will meet with state and local officials, landowners, residents and environmental organizations to fully discuss the project, review proposed routes and answer any questions. The routes will be presented to potentially affected landowners during community open house events in December 2014. Landowners along the proposed routes will have the opportunity to review the routes and provide input to Westar. Westar will consider input from all stakeholders in developing a final preferred route to submit to the Kansas Corporation Commission (KCC). The KCC has the final authority to determine where the line will be built.

WORKING WITH LANDOWNERS

Westar is committed to open and frequent communications with landowners. When the final line route is determined by the KCC, we will contact landowners who have property on the final line route and begin discussions with them about purchasing the easements necessary to build the line. This will allow property owners to continue most uses of their property. We provide one-time payments, typically negotiated up-front, based on determination of the market property values in the local area. We will work respectfully with landowners throughout the siting, design, and construction process to minimize impacts to their properties. It is our goal to reach mutually beneficial negotiated agreements with all landowners.

Frequently asked questions.

What will the line look like?
The types of structures to be used on this project have not been determined. First the route has to be identified because it will influence which structure types and height will be used. The structures will likely be fabricated from steel. The structure height will vary based on terrain, clearance to the ground, and structure spacing; but are likely to range between 120 and 160 feet. The span lengths between structures will also vary but will likely be between 800 to 1,500 feet, with an average span around 900 feet.

Who will build the lines and manage the construction?
Westar will provide project management services and coordination for the engineering and construction of the project.

Who approved this project?
The project has been reviewed and approved by the Southwest Power Pool (SPP), the organization designated by the Federal Energy Regulatory Commission (FERC) to oversee the high-voltage grid reliability in the multi-state region that includes Kansas. Westar will construct, own and operate the new transmission line.

How much will this project cost?
Although the cost will be reevaluated when the preferred route is determined, the initial estimated investment for the project is about $58 million.

Who will pay for the transmission line and facilities?
Because the line will benefit the entire region in terms of improved reliability and increased efficiency, the cost will be recovered from all customers in the Southwest Power Pool region, which includes Kansas, Oklahoma and parts of Nebraska, Texas, New Mexico, Arkansas and Missouri. The SPP oversees the tariff that is the basis for transmission charges to customers.

Why are you starting this process now if the line won't be finished until 2017?
A project of this size requires many years to permit, design, procure materials and construct. Almost all the major components will be custom built and require long lead times.

Key dates and timeline.

Fall 2014
Preliminary routing & community outreach

December 3-4, 2014
Public Open House events in Wamego

Q1 2015
Route application filed with the Kansas Corporation Commission

Q2 2015
KCC route approval anticipated

2015-2016
Right-of-way acquisition

2015-2016
Engineering design

2016-2017
Construction

2017
Project in service

What environmental impacts will be considered with the siting of this project?
The environment is an important factor when planning and designing transmission line projects. We work closely with appropriate organizations, including the Kansas Department of Wildlife, Parks and Tourism, the U.S. Fish and Wildlife Service and the Nature Conservancy from the beginning of a project to make sure any direct environmental impact is appropriately identified and addressed. We believe this kind of collaboration leads to developing a transmission line route that aligns with federal and state energy and environmental policy objectives. We adhere to all state and federal regulations to protect native plants, threatened or endangered species, wetlands, and water and air quality.

Westar Energy, Inc.
Westar is the largest electric energy provider in Kansas, dedicated to operating the best electric utility in the Midwest and providing quality service at below average prices. Headquartered in Topeka, Westar provides generation, transmission, and distribution to more than 687,000 customers in much of east and east-central Kansas. (westarenergy.com)

FOR MORE INFORMATION ON THIS PROJECT, CONTACT: JOHN ONSTEAD at (904) 571-9269

JEC to E. Manhattan 230kV/345kV Project

Determining the Final Route

Consultant uses aerial photos, input from governmental and public agencies, field observations, etc. to determine many potential routes.

Landowners along the potential routes are notified and open houses are held to gather additional information on all the potential routes. Landowner feedback from questionnaires, letters, phone calls, meetings is collected and summarized. Potential routes are adjusted if necessary due to additional information received during the process.

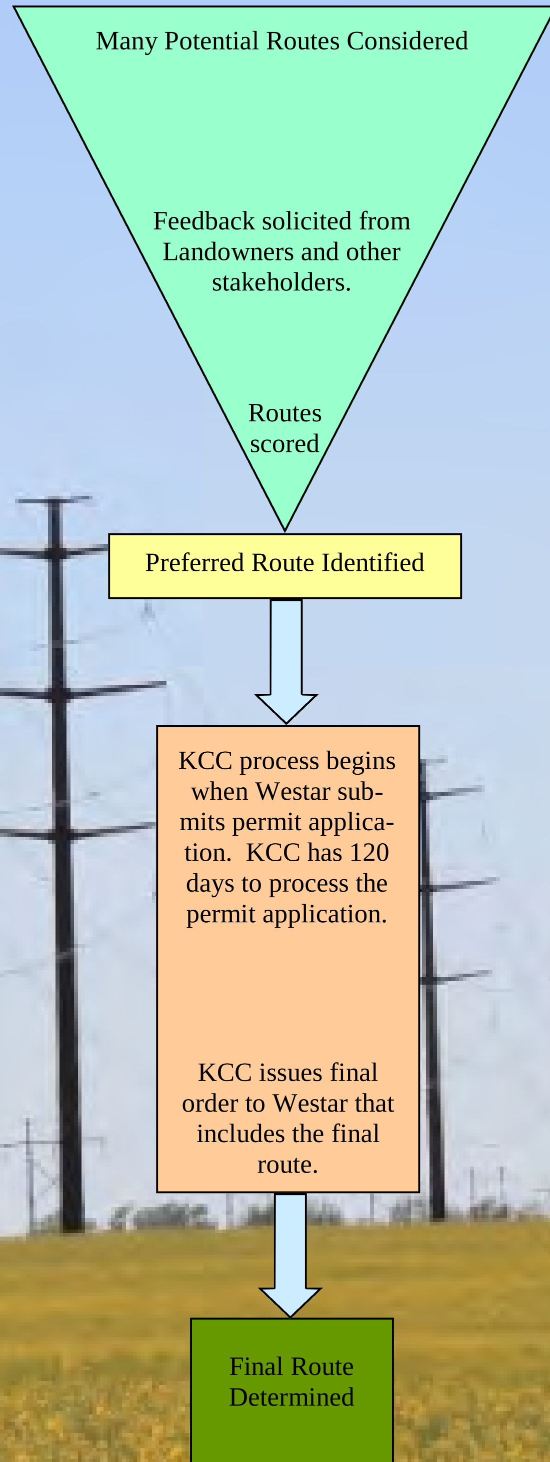
Consultant scores all the routes and drafts a siting study report for Westar. Westar and consultant review the results of the siting study and identify the route that scores the best, called the preferred route.

Westar submits the siting permit application to the Kansas Corporation Commission (KCC). Application includes Westar's siting study and identifies the preferred route.

KCC requires all landowners along the preferred route to be notified. KCC establishes their schedule and typically has at least one public hearing and one technical hearing as part of their process. KCC staff also provides input on the preferred route.

KCC issues final order to Westar that includes the final route. Westar notifies all landowners along the final route and begins to acquire easements.

ROUTING PROCESS BEGINS



ROUTING PROCESS ENDS

Westar Energy Jeffrey Energy Center to E. Manhattan Project
STAKEHOLDER QUESTIONNAIRE

This questionnaire is designed to help you identify issues related to the proposed routes for the Jeffrey Energy Center to E. Manhattan Transmission Line Project. Your answers will assist the study team in understanding public interests and concerns, and will allow the team to incorporate this information in the route selection process. Please complete this questionnaire **after** you have reviewed the information presented in the informational meeting today. Thank you for your input.

PROJECT NEED

1. Do you believe the need for this transmission line has been explained adequately?

______Yes ______No ______Uncertain

If "No" or "uncertain," what additional information would be helpful to you?

____

____

LINE ROUTING CONSIDERATIONS

2. The routing of a transmission line involves many considerations. Please circle the number corresponding to the level of importance of that factor to you.

	Rating				
Factor	**Not Important**	**…………**	**Somewhat Important**	**…………**	**Most Important**
a) Maximize distance from residences	1	2	3	4	5
b) Maximize distance from businesses	1	2	3	4	5
c) Maximize distance from public facilities (e.g., parks, schools, churches, cemeteries)	1	2	3	4	5
d) Maximize length along existing transmission lines	1	2	3	4	5
e) Maximize length along highways or other roads	1	2	3	4	5
f) Maintain reliable electric service	1	2	3	4	5
g) Minimize length through wetlands and number of stream / river crossings	1	2	3	4	5
h) Minimize length across tilled agricultural land	1	2	3	4	5
i) Maximize distance from center pivot irrigation systems	1	2	3	4	5
j) Minimize loss of trees	1	2	3	4	5
k) Minimize visibility of the line	1	2	3	4	5
l) Minimize total length of line (reducing the total cost)	1	2	3	4	5
m) Minimize length through grassland or pasture	1	2	3	4	5
n) Minimize impacts to archaeological and historic sites	1	2	3	4	5
o) Minimize distance through sensitive habitat areas	1	2	3	4	5

3. If you would like to comment further on any of the above factors, or identify any other factors or issues that you feel should be considered, please use the space below or a separate page to describe your comments.

____

____

Westar Energy.

4. If you have a concern with, or a suggestion for, a particular transmission line route(s) shown on the display of potential routes, please indicate the route color number and describe your concern or suggestion.

Segment No.	Concern
__________	______________________________
__________	______________________________
__________	______________________________

ADDITIONAL INFORMATION

5. Which of the following applies to your situation?

_______ a. Potential line route is near my home.

_______ b. Potential line route is near my farm or business.

_______ c. Not affected by potential route.

_______ d. Other, please specify ______________________________

6. Do you believe the public open house format and the information provided was helpful for your understanding of the project?

OPEN HOUSE FORMAT:	______ helpful	______ not helpful
INFORMATION PROVIDED:	______ helpful	______ not helpful
WESTAR STAFF HELPFUL:	______ helpful	______ not helpful

How can we improve this format to better inform and respond to you?

____

____

7. If you would like to know the results of this routing study, please enter your name and address below. (Names and addresses are considered confidential.)

Name: ______________________________ Phone: ______________________________

Address: ______________________________

____

ADDITIONAL COMMENTS OR QUESTIONS

____

____

____

We encourage you to fill out and submit your questionnaire at the meeting. If you take the questionnaire with you, please mail completed questionnaires before December 18, 2014 to:

Westar Energy
JEC to E. Manhattan Transmission Line
Attn: Matt Armfield
PO Box 889
Topeka, KS 66601

Westar Energy

APPENDIX F - ANALYSIS DATA

Contents of Appendix F:

Westar Energy- JEC to East Manhattan
345/230 kV Transmission Line Project
Table F-1: Route Data for All Routes

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
1	1,3,7,11,13,12,14,30,31,34,35,37,40,41,44,55	164406	16	82797	152085	122075	33	51	3.99	36.13	119.07	357.98	5	332228	15.5	3	0	1
2	1,3,7,11,13,12,14,30,31,34,35,37,40,41,45,55	179390	20	110117	159659	115458	38	56	4.40	40.48	139.12	377.23	5	388230	15.5	3	0	1
3	1,3,7,11,13,12,14,30,31,34,35,37,40,43,47,46,48,51	170965	20	98248	165441	105682	36	56	3.99	34.25	116.03	388.82	7	353693	15.5	3	0	1
4	1,3,7,11,13,12,14,30,31,34,35,37,40,43,47,46,48,52,53,54	168091	20	86667	162567	112916	34	55	4.12	34.65	116.03	380.13	6	322694	15.5	3	0	1
5	1,3,7,11,13,12,14,30,31,34,35,37,40,43,47,49,53,54	159916	21	58468	154391	124381	34	51	4.48	35.06	118.60	350.03	6	298949	15.5	3	0	1
6	1,3,7,11,13,12,14,30,31,34,35,37,40,43,50,54	159036	19	57836	153512	123502	34	52	4.12	36.97	119.68	343.44	5	296175	15.5	3	0	1
7	1,3,7,11,13,12,14,30,31,34,35,37,42,46,48,51	169799	17	97041	164850	105091	34	56	3.99	34.25	115.21	387.82	7	348977	15.5	3	0	1
8	1,3,7,11,13,12,14,30,31,34,35,37,42,46,48,52,53,54	166924	17	85461	161975	112325	32	55	4.12	34.65	115.21	379.13	6	317978	15.5	3	0	1
9	1,3,7,11,13,12,14,30,31,34,35,37,42,47,50,54	159133	18	57893	154184	124174	34	52	4.12	36.97	120.95	344.05	5	296511	15.5	3	0	1
10	1,3,7,11,13,12,14,30,31,34,35,37,42,49,53,54	158749	17	57261	153800	123790	32	51	4.48	35.06	117.78	349.03	6	294232	15.5	3	0	1
11	1,3,7,11,13,12,14,30,31,34,36,39,41,40,42,46,48,51	181545	20	133701	166749	96773	34	59	4.09	34.15	164.05	358.73	7	415640	15.5	3	0	1
12	1,3,7,11,13,12,14,30,31,34,36,39,41,40,42,46,48,52,53,54	178671	20	122121	163875	104007	32	58	4.22	34.55	164.05	350.04	6	384640	15.5	3	0	1
13	1,3,7,11,13,12,14,30,31,34,36,39,41,40,42,47,50,54	170880	21	94553	156084	115856	34	55	4.22	36.87	169.79	314.96	5	363174	15.5	3	0	1
14	1,3,7,11,13,12,14,30,31,34,36,39,41,40,42,49,53,54	170496	20	93921	155700	115472	32	54	4.59	34.96	166.62	319.94	6	360895	15.5	3	0	1
15	1,3,7,11,13,12,14,30,31,34,36,39,41,43,47,46,48,51	181561	21	133757	167341	97364	34	59	4.09	34.15	164.87	358.87	7	415895	15.5	3	0	1
16	1,3,7,11,13,12,14,30,31,34,36,39,41,43,47,46,48,52,53,54	178687	21	122177	164466	104598	32	58	4.22	34.55	164.87	350.18	6	384896	15.5	3	0	1
17	1,3,7,11,13,12,14,30,31,34,36,39,41,43,47,49,53,54	170512	22	93978	156291	116063	32	54	4.59	34.96	167.44	320.08	6	361151	15.5	3	0	1
18	1,3,7,11,13,12,14,30,31,34,36,39,41,43,50,54	169632	20	93346	155412	115184	32	55	4.22	36.87	168.52	313.48	5	358377	15.5	3	0	1
19	1,3,7,11,13,12,14,30,31,34,36,39,44,55	161408	15	104713	153985	113757	31	50	4.09	36.03	167.91	309.34	5	354352	15.5	3	0	1
20	1,3,7,11,13,12,14,30,31,34,36,39,45,55	176392	19	132032	161558	107141	36	55	4.50	40.38	187.96	328.59	5	410354	15.5	3	0	1
21	1,3,7,11,13,12,14,30,31,34,38,40,42,46,48,51	170146	17	97003	164622	114749	35	56	4.25	35.31	115.50	386.74	7	349480	15.5	3	0	6
22	1,3,7,11,13,12,14,30,31,34,38,40,42,46,48,52,53,54	167272	17	85423	161748	121983	33	55	4.38	35.71	115.50	378.05	6	318481	15.5	3	0	6
23	1,3,7,11,13,12,14,30,31,34,38,40,42,47,50,54	159481	18	57855	153956	133832	35	52	4.38	38.03	121.24	342.97	5	297014	15.5	3	0	6
24	1,3,7,11,13,12,14,30,31,34,38,40,42,49,53,54	159097	17	57223	153573	133448	33	51	4.74	36.12	118.08	347.95	6	294735	15.5	3	0	6
25	1,3,7,11,13,12,14,30,31,34,38,41,44,55	163603	14	81609	151857	131733	32	51	4.25	37.19	119.36	355.88	5	328270	15.5	3	0	6
26	1,3,7,11,13,12,14,30,31,34,38,41,45,55	178587	18	108929	159431	125117	37	56	4.66	41.54	139.41	375.14	5	384273	15.5	3	0	6
27	1,3,7,11,13,12,14,30,31,34,38,43,47,46,48,51	170163	16	97060	165213	115340	35	56	4.25	35.31	116.32	386.88	7	349735	15.5	3	0	6
28	1,3,7,11,13,12,14,30,31,34,38,43,47,46,48,52,53,54	167288	16	85479	162339	122575	33	55	4.38	35.71	116.32	378.19	6	318736	15.5	3	0	6
29	1,3,7,11,13,12,14,30,31,34,38,43,47,49,53,54	159113	17	57280	154164	134040	33	51	4.74	36.12	118.89	348.09	6	294991	15.5	3	0	6
30	1,3,7,11,13,12,14,30,31,34,38,43,50,54	158234	15	56648	153285	133160	33	52	4.38	38.03	119.97	341.50	5	292217	15.5	3	0	6
31	1,3,7,11,13,12,14,30,33,37,40,41,44,55	163830	14	81771	151922	117258	33	52	3.99	35.14	119.50	356.49	5	330942	15.5	3	0	1
32	1,3,7,11,13,12,14,30,33,37,40,41,45,55	178814	18	109090	159496	110642	38	57	4.40	39.49	139.55	375.75	5	386944	15.5	3	0	1
33	1,3,7,11,13,12,14,30,33,37,40,43,47,46,48,51	170389	18	97221	165278	100865	36	57	3.99	33.26	116.45	387.34	7	352407	15.5	3	0	1
34	1,3,7,11,13,12,14,30,33,37,40,43,47,46,48,52,53,54	167515	18	85641	162404	108099	34	56	4.12	33.66	116.45	378.64	6	321408	15.5	3	0	1
35	1,3,7,11,13,12,14,30,33,37,40,43,47,49,53,54	159340	19	57442	154229	119564	34	52	4.48	34.07	119.02	348.55	6	297663	15.5	3	0	1
36	1,3,7,11,13,12,14,30,33,37,40,43,50,54	158460	17	56810	153349	118685	34	53	4.12	35.98	120.10	341.95	5	294889	15.5	3	0	1
37	1,3,7,11,13,12,14,30,33,37,42,46,48,51	169223	15	96015	164687	100274	34	57	3.99	33.26	115.64	386.34	7	347690	15.5	3	0	1
38	1,3,7,11,13,12,14,30,33,37,42,46,48,52,53,54	166348	15	84434	161813	107508	32	56	4.12	33.66	115.64	377.64	6	316691	15.5	3	0	1
39	1,3,7,11,13,12,14,30,33,37,42,47,50,54	158557	16	56867	154021	119357	34	53	4.12	35.98	121.37	342.56	5	295225	15.5	3	0	1
40	1,3,7,11,13,12,14,30,33,37,42,49,53,54	158173	15	56235	153637	118973	32	52	4.48	34.07	118.21	347.55	6	292946	15.5	3	0	1
41	1,3,7,11,13,12,14,32,46,47,50,54	172818	19	104180	151951	118498	36	60	3.70	41.40	134.37	354.90	5	392166	23.5	3	0	5
42	1,3,7,11,13,12,14,32,46,49,53,54	172435	18	103548	151567	118114	34	59	4.07	39.49	131.21	359.29	6	389887	23.5	3	0	5
43	1,3,7,11,13,12,14,32,48,51	168027	16	127871	147160	91811	36	62	3.57	38.68	128.64	345.45	5	422370	23.5	3	0	5
44	1,3,7,11,13,12,14,32,48,52,53,54	165153	16	116291	144285	99045	34	61	3.70	39.08	128.64	336.76	4	391371	23.5	3	0	5
45	1,3,7,11,13,15,23,26,30,32,46,47,50,54	167380	28	77492	136248	107363	35	54	3.86	44.98	104.64	361.55	5	376084	20	3	1	5
46	1,3,7,11,13,15,23,26,30,32,46,49,53,54	166996	27	76861	135864	106979	33	53	4.22	43.07	101.48	365.95	6	373805	20	3	1	5
47	1,3,7,11,13,15,23,26,30,32,48,51	162588	25	101183	131457	80676	35	56	3.73	42.26	98.91	352.11	5	406288	20	3	1	5
48	1,3,7,11,13,15,23,26,30,32,48,52,53,54	159714	25	89603	128582	87910	33	55	3.86	42.66	98.91	343.41	4	375289	20	3	1	5
49	1,3,7,11,13,15,23,26,31,34,35,37,40,41,44,55	151312	23	48454	136382	110940	30	43	4.15	39.70	89.34	339.67	5	278110	9	3	1	1
50	1,3,7,11,13,15,23,26,31,34,35,37,40,41,45,55	166296	27	75774	143956	104323	35	48	4.56	44.05	109.40	358.92	5	334112	9	3	1	1
51	1,3,7,11,13,15,23,26,31,34,35,37,40,43,47,46,48,51	157871	27	63905	149738	94547	33	48	4.15	37.82	86.30	370.51	7	299575	9	3	1	1

Table F-1: Route Data for All Routes

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
52	1,3,7,11,13,15,23,26,31,34,35,37,40,43,47,46,48,52,53,54	154997	27	52325	146864	101781	31	47	4.28	38.22	86.30	361.82	6	268576	9	3	1	1
53	1,3,7,11,13,15,23,26,31,34,35,37,40,43,47,49,53,54	146821	28	24125	138688	113246	31	43	4.64	38.63	88.87	331.72	6	244831	9	3	1	1
54	1,3,7,11,13,15,23,26,31,34,35,37,40,43,50,54	145942	26	23493	137809	112367	31	44	4.28	40.54	89.95	325.12	5	242057	9	3	1	1
55	1,3,7,11,13,15,23,26,31,34,35,37,42,46,48,51	156704	24	62698	149147	93955	31	48	4.15	37.82	85.49	369.51	7	294859	9	3	1	1
56	1,3,7,11,13,15,23,26,31,34,35,37,42,46,48,52,53,54	153830	24	51118	146272	101190	29	47	4.28	38.22	85.49	360.82	6	263860	9	3	1	1
57	1,3,7,11,13,15,23,26,31,34,35,37,42,47,50,54	146039	25	23550	138481	113039	31	44	4.28	40.54	91.22	325.74	5	242393	9	3	1	1
58	1,3,7,11,13,15,23,26,31,34,35,37,42,49,53,54	145655	24	22918	138097	112655	29	43	4.64	38.63	88.06	330.72	6	240114	9	3	1	1
59	1,3,7,11,13,15,23,26,31,34,36,39,41,40,42,46,48,51	168451	27	99358	151046	85638	31	51	4.25	37.72	134.33	340.42	7	361522	9	3	1	1
60	1,3,7,11,13,15,23,26,31,34,36,39,41,40,42,46,48,52,53,54	165577	27	87778	148172	92872	29	50	4.38	38.12	134.33	331.73	6	330523	9	3	1	1
61	1,3,7,11,13,15,23,26,31,34,36,39,41,40,42,47,50,54	157785	28	60210	140381	104721	31	47	4.38	40.44	140.06	296.65	5	309056	9	3	1	1
62	1,3,7,11,13,15,23,26,31,34,36,39,41,40,42,49,53,54	157401	27	59578	139997	104337	29	46	4.74	38.53	136.90	301.63	6	306777	9	3	1	1
63	1,3,7,11,13,15,23,26,31,34,36,39,41,43,47,46,48,51	168467	28	99414	151638	86229	31	51	4.25	37.72	135.14	340.56	7	361778	9	3	1	1
64	1,3,7,11,13,15,23,26,31,34,36,39,41,43,47,46,48,52,53,54	165593	28	87834	148763	93463	29	50	4.38	38.12	135.14	331.87	6	330779	9	3	1	1
65	1,3,7,11,13,15,23,26,31,34,36,39,41,43,47,49,53,54	157417	29	59635	140588	104928	29	46	4.74	38.53	137.71	301.77	6	307033	9	3	1	1
66	1,3,7,11,13,15,23,26,31,34,36,39,41,43,50,54	156538	27	59003	139709	104049	29	47	4.38	40.44	138.79	295.17	5	304259	9	3	1	1
67	1,3,7,11,13,15,23,26,31,34,36,39,44,55	148314	22	70370	138282	102622	28	42	4.25	39.61	138.18	291.03	5	300234	9	3	1	1
68	1,3,7,11,13,15,23,26,31,34,36,39,45,55	163298	26	97689	145855	96005	33	47	4.66	43.95	158.24	310.28	5	356236	9	3	1	1
69	1,3,7,11,13,15,23,26,31,34,38,40,42,46,48,51	157052	24	62660	148919	103614	32	48	4.41	38.88	85.78	368.43	7	295362	9	3	1	6
70	1,3,7,11,13,15,23,26,31,34,38,40,42,46,48,52,53,54	154178	24	51080	146045	110848	30	47	4.53	39.29	85.78	359.74	6	264363	9	3	1	6
71	1,3,7,11,13,15,23,26,31,34,38,40,42,47,50,54	146386	25	23512	138254	122697	32	44	4.53	41.60	91.51	324.66	5	242896	9	3	1	6
72	1,3,7,11,13,15,23,26,31,34,38,40,42,49,53,54	146002	24	22880	137870	122313	30	43	4.90	39.69	88.35	329.64	6	240617	9	3	1	6
73	1,3,7,11,13,15,23,26,31,34,38,41,44,55	150509	21	47266	136154	120598	29	43	4.41	40.77	89.64	337.57	5	274153	9	3	1	6
74	1,3,7,11,13,15,23,26,31,34,38,41,45,55	165493	25	74586	143728	113982	34	48	4.81	45.12	109.69	356.83	5	330155	9	3	1	6
75	1,3,7,11,13,15,23,26,31,34,38,43,47,46,48,51	157068	23	62717	149511	104205	32	48	4.41	38.88	86.59	368.57	7	295618	9	3	1	6
76	1,3,7,11,13,15,23,26,31,34,38,43,47,46,48,52,53,54	154194	23	51136	146636	111439	30	47	4.53	39.29	86.59	359.88	6	264619	9	3	1	6
77	1,3,7,11,13,15,23,26,31,34,38,43,47,49,53,54	146019	24	22937	138461	122904	30	43	4.90	39.69	89.16	329.78	6	240873	9	3	1	6
78	1,3,7,11,13,15,23,26,31,34,38,43,50,54	145139	22	22305	137582	122025	30	44	4.53	41.60	90.25	323.19	5	238099	9	3	1	6
79	1,3,7,11,13,15,23,26,33,37,40,41,44,55	150736	19	47428	136219	106123	30	44	4.15	38.71	89.77	338.24	5	276824	9	3	1	1
80	1,3,7,11,13,15,23,26,33,37,40,41,45,55	165720	23	74747	143793	99506	35	49	4.56	43.06	109.82	357.49	5	332826	9	3	1	1
81	1,3,7,11,13,15,23,26,33,37,40,43,47,46,48,51	157295	23	62878	149575	89730	33	49	4.15	36.83	86.73	369.08	7	298289	9	3	1	1
82	1,3,7,11,13,15,23,26,33,37,40,43,47,46,48,52,53,54	154421	23	51298	146701	96964	31	48	4.28	37.23	86.73	360.39	6	267290	9	3	1	1
83	1,3,7,11,13,15,23,26,33,37,40,43,47,49,53,54	146245	24	23099	138526	108429	31	44	4.64	37.64	89.30	330.29	6	243545	9	3	1	1
84	1,3,7,11,13,15,23,26,33,37,40,43,50,54	145366	22	22467	137646	107550	31	45	4.28	39.55	90.38	323.69	5	240771	9	3	1	1
85	1,3,7,11,13,15,23,26,33,37,42,46,48,51	156128	20	61672	148984	89139	31	49	4.15	36.83	85.91	368.08	7	293573	9	3	1	1
86	1,3,7,11,13,15,23,26,33,37,42,46,48,52,53,54	153254	20	50092	146110	96373	29	48	4.28	37.23	85.91	359.39	6	262574	9	3	1	1
87	1,3,7,11,13,15,23,26,33,37,42,47,50,54	145463	21	22524	138318	108222	31	45	4.28	39.55	91.65	324.31	5	241107	9	3	1	1
88	1,3,7,11,13,15,23,26,33,37,42,49,53,54	145079	20	21892	137934	107838	29	44	4.64	37.64	88.48	329.29	6	238828	9	3	1	1
89	1,3,7,11,13,15,23,27,28,31,30,32,46,47,50,54	167690	28	76173	136448	110129	35	54	3.86	43.81	113.79	354.57	5	373922	20	3	0	5
90	1,3,7,11,13,15,23,27,28,31,30,32,46,49,53,54	167307	27	75541	136064	109745	33	53	4.22	41.91	110.63	358.97	6	371643	20	3	0	5
91	1,3,7,11,13,15,23,27,28,31,30,32,48,51	162899	25	99864	131657	83442	35	56	3.73	41.09	108.05	345.12	5	404126	20	3	0	5
92	1,3,7,11,13,15,23,27,28,31,30,32,48,52,53,54	160025	25	88284	128782	90676	33	55	3.86	41.50	108.05	336.43	4	373126	20	3	0	5
93	1,3,7,11,13,15,23,27,28,31,33,37,40,41,44,55	151047	21	46108	136419	108889	30	44	4.15	37.55	98.91	331.20	5	274661	9	3	0	1
94	1,3,7,11,13,15,23,27,28,31,33,37,40,41,45,55	166031	25	73428	143993	102273	35	49	4.56	41.90	118.97	350.45	5	330664	9	3	0	1
95	1,3,7,11,13,15,23,27,28,31,33,37,40,43,47,46,48,51	157606	25	61559	149775	92496	33	49	4.15	35.67	95.87	362.04	7	296127	9	3	0	1
96	1,3,7,11,13,15,23,27,28,31,33,37,40,43,47,46,48,52,53,54	154732	25	49979	146901	99730	31	48	4.28	36.07	95.87	353.35	6	265128	9	3	0	1
97	1,3,7,11,13,15,23,27,28,31,33,37,40,43,47,49,53,54	146556	26	21779	138726	111195	31	44	4.64	36.48	98.44	323.25	6	241382	9	3	0	1
98	1,3,7,11,13,15,23,27,28,31,33,37,40,43,50,54	145677	24	21148	137847	110316	31	45	4.28	38.39	99.52	316.66	5	238608	9	3	0	1
99	1,3,7,11,13,15,23,27,28,31,33,37,42,46,48,51	156439	22	60352	149184	91905	31	49	4.15	35.67	95.06	361.04	7	291410	9	3	0	1
100	1,3,7,11,13,15,23,27,28,31,33,37,42,46,48,52,53,54	153565	22	48772	146310	99139	29	48	4.28	36.07	95.06	352.35	6	260411	9	3	0	1
101	1,3,7,11,13,15,23,27,28,31,33,37,42,47,50,54	145774	23	21204	138518	110988	31	45	4.28	38.39	100.79	317.27	5	238945	9	3	0	1
102	1,3,7,11,13,15,23,27,28,31,33,37,42,49,53,54	145390	22	20572	138134	110604	29	44	4.64	36.48	97.63	322.25	6	236666	9	3	0	1

Table F-1: Route Data for All Routes

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
103	1,3,7,11,13,15,23,27,28,34,35,37,40,41,44,55	150796	21	46308	136582	113706	30	43	4.15	38.54	97.87	330.51	5	271815	9	3	0	1
104	1,3,7,11,13,15,23,27,28,34,35,37,40,41,45,55	165780	25	73628	144156	107089	35	48	4.56	42.89	117.92	349.76	5	327817	9	3	0	1
105	1,3,7,11,13,15,23,27,28,34,35,37,40,43,47,46,48,51	157355	25	61759	149938	97313	33	48	4.15	36.66	94.83	361.35	7	293280	9	3	0	1
106	1,3,7,11,13,15,23,27,28,34,35,37,40,43,47,46,48,52,53,54	154481	25	50178	147064	104547	31	47	4.28	37.06	94.83	352.66	6	262281	9	3	0	1
107	1,3,7,11,13,15,23,27,28,34,35,37,40,43,47,49,53,54	146306	26	21979	138889	116012	31	43	4.64	37.47	97.40	322.56	6	238535	9	3	0	1
108	1,3,7,11,13,15,23,27,28,34,35,37,40,43,50,54	145426	24	21347	138009	115133	31	44	4.28	39.38	98.48	315.97	5	235761	9	3	0	1
109	1,3,7,11,13,15,23,27,28,34,35,37,42,46,48,51	156189	22	60552	149347	96722	31	48	4.15	36.66	94.01	360.35	7	288563	9	3	0	1
110	1,3,7,11,13,15,23,27,28,34,35,37,42,46,48,52,53,54	153314	22	48972	146472	103956	29	47	4.28	37.06	94.01	351.66	6	257564	9	3	0	1
111	1,3,7,11,13,15,23,27,28,34,35,37,42,47,50,54	145523	23	21404	138681	115805	31	44	4.28	39.38	99.75	316.58	5	236098	9	3	0	1
112	1,3,7,11,13,15,23,27,28,34,35,37,42,49,53,54	145139	22	20772	138297	115421	29	43	4.64	37.47	96.59	321.56	6	233819	9	3	0	1
113	1,3,7,11,13,15,23,27,28,34,36,39,41,40,42,46,48,51	167935	25	97212	151247	88404	31	51	4.25	36.56	142.85	331.26	7	355226	9	3	0	1
114	1,3,7,11,13,15,23,27,28,34,36,39,41,40,42,46,48,52,53,54	165061	25	85632	148372	95638	29	50	4.38	36.96	142.85	322.57	6	324227	9	3	0	1
115	1,3,7,11,13,15,23,27,28,34,36,39,41,40,42,47,50,54	157270	26	58064	140581	107487	31	47	4.38	39.28	148.59	287.49	5	302761	9	3	0	1
116	1,3,7,11,13,15,23,27,28,34,36,39,41,40,42,49,53,54	156886	25	57432	140197	107103	29	46	4.74	37.37	145.43	292.47	6	300482	9	3	0	1
117	1,3,7,11,13,15,23,27,28,34,36,39,41,43,47,46,48,51	167951	26	97268	151838	88995	31	51	4.25	36.56	143.67	331.40	7	355482	9	3	0	1
118	1,3,7,11,13,15,23,27,28,34,36,39,41,43,47,46,48,52,53,54	165077	26	85688	148964	96229	29	50	4.38	36.96	143.67	322.71	6	324483	9	3	0	1
119	1,3,7,11,13,15,23,27,28,34,36,39,41,43,47,49,53,54	156902	27	57488	140788	107694	29	46	4.74	37.37	146.24	292.61	6	300738	9	3	0	1
120	1,3,7,11,13,15,23,27,28,34,36,39,41,43,50,54	156023	25	56857	139909	106815	29	47	4.38	39.28	147.32	286.02	5	297964	9	3	0	1
121	1,3,7,11,13,15,23,27,28,34,36,39,44,55	147798	20	68224	138482	105388	28	42	4.25	38.44	146.71	281.87	5	293939	9	3	0	1
122	1,3,7,11,13,15,23,27,28,34,36,39,45,55	162782	24	95543	146056	98772	33	47	4.66	42.79	166.76	301.13	5	349941	9	3	0	1
123	1,3,7,11,13,15,23,27,28,34,38,40,42,46,48,51	156536	22	60514	149119	106380	32	48	4.41	37.72	94.30	359.27	7	289066	9	3	0	6
124	1,3,7,11,13,15,23,27,28,34,38,40,42,46,48,52,53,54	153662	22	48934	146245	113614	30	47	4.53	38.12	94.30	350.58	6	258067	9	3	0	6
125	1,3,7,11,13,15,23,27,28,34,38,40,42,47,50,54	145871	23	21366	138454	125463	32	44	4.53	40.44	100.04	315.50	5	236601	9	3	0	6
126	1,3,7,11,13,15,23,27,28,34,38,40,42,49,53,54	145487	22	20734	138070	125079	30	43	4.90	38.53	96.88	320.48	6	234322	9	3	0	6
127	1,3,7,11,13,15,23,27,28,34,38,41,44,55	149993	19	45120	136355	123364	29	43	4.41	39.60	98.16	328.42	5	267857	9	3	0	6
128	1,3,7,11,13,15,23,27,28,34,38,41,45,55	164977	23	72439	143928	116748	34	48	4.81	43.95	118.21	347.67	5	323859	9	3	0	6
129	1,3,7,11,13,15,23,27,28,34,38,43,47,46,48,51	156553	21	60570	149711	106971	32	48	4.41	37.72	95.12	359.42	7	289322	9	3	0	6
130	1,3,7,11,13,15,23,27,28,34,38,43,47,46,48,52,53,54	153678	21	48990	146836	114206	30	47	4.53	38.12	95.12	350.72	6	258323	9	3	0	6
131	1,3,7,11,13,15,23,27,28,34,38,43,47,49,53,54	145503	22	20791	138661	125671	30	43	4.90	38.53	97.69	320.63	6	234578	9	3	0	6
132	1,3,7,11,13,15,23,27,28,34,38,43,50,54	144624	20	20159	137782	124791	30	44	4.53	40.44	98.77	314.03	5	231804	9	3	0	6
133	1,3,7,11,13,16,18,19,22,24,29,36,35,37,40,41,44,55	165266	25	84249	138359	102652	32	48	3.36	38.58	94.84	356.52	5	380746	51.5	3	0	1
134	1,3,7,11,13,16,18,19,22,24,29,36,35,37,40,41,45,55	180250	29	111569	145933	96036	37	53	3.77	42.93	114.90	375.78	5	436748	51.5	3	0	1
135	1,3,7,11,13,16,18,19,22,24,29,36,35,37,40,43,47,46,48,51	171825	29	99700	151715	86259	35	53	3.36	36.70	91.80	387.37	7	402211	51.5	3	0	1
136	1,3,7,11,13,16,18,19,22,24,29,36,35,37,40,43,47,46,48,52,53,54	168951	29	88120	148841	93493	33	52	3.49	37.10	91.80	378.67	6	371212	51.5	3	0	1
137	1,3,7,11,13,16,18,19,22,24,29,36,35,37,40,43,47,49,53,54	160775	30	59920	140665	104959	33	48	3.85	37.51	94.37	348.58	6	347466	51.5	3	0	1
138	1,3,7,11,13,16,18,19,22,24,29,36,35,37,40,43,50,54	159896	28	59289	139786	104079	33	49	3.49	39.42	95.45	341.98	5	344692	51.5	3	0	1
139	1,3,7,11,13,16,18,19,22,24,29,36,35,37,42,46,48,51	170658	26	98493	151124	85668	33	53	3.36	36.70	90.99	386.37	7	397494	51.5	3	0	1
140	1,3,7,11,13,16,18,19,22,24,29,36,35,37,42,46,48,52,53,54	167784	26	86913	148249	92902	31	52	3.49	37.10	90.99	377.67	6	366495	51.5	3	0	1
141	1,3,7,11,13,16,18,19,22,24,29,36,35,37,42,47,50,54	159993	27	59345	140458	104751	33	49	3.49	39.42	96.72	342.59	5	345029	51.5	3	0	1
142	1,3,7,11,13,16,18,19,22,24,29,36,35,37,42,49,53,54	159609	26	58713	140074	104367	31	48	3.85	37.51	93.56	347.58	6	342750	51.5	3	0	1
143	1,3,7,11,13,16,18,19,22,24,29,36,38,40,42,46,48,51	171006	27	98455	150896	95326	34	53	3.62	37.76	91.28	385.26	7	397997	51.5	3	0	6
144	1,3,7,11,13,16,18,19,22,24,29,36,38,40,42,46,48,52,53,54	168132	27	86875	148022	102561	32	52	3.75	38.16	91.28	376.57	6	366998	51.5	3	0	6
145	1,3,7,11,13,16,18,19,22,24,29,36,38,40,42,47,50,54	160341	28	59307	140230	114410	34	49	3.75	40.48	97.01	341.49	5	345532	51.5	3	0	6
146	1,3,7,11,13,16,18,19,22,24,29,36,38,40,42,49,53,54	159957	27	58676	139846	114026	32	48	4.11	38.57	93.85	346.47	6	343253	51.5	3	0	6
147	1,3,7,11,13,16,18,19,22,24,29,36,38,41,44,55	164463	24	83061	138131	112311	31	48	3.62	39.64	95.13	354.40	5	376788	51.5	3	0	6
148	1,3,7,11,13,16,18,19,22,24,29,36,38,41,45,55	179447	28	110381	145705	105694	36	53	4.03	43.99	115.19	373.66	5	432790	51.5	3	0	6
149	1,3,7,11,13,16,18,19,22,24,29,36,38,43,47,46,48,51	171022	26	98512	151487	95918	34	53	3.62	37.76	92.09	385.40	7	398253	51.5	3	0	6
150	1,3,7,11,13,16,18,19,22,24,29,36,38,43,47,46,48,52,53,54	168148	26	86932	148613	103152	32	52	3.75	38.16	92.09	376.71	6	367254	51.5	3	0	6
151	1,3,7,11,13,16,18,19,22,24,29,36,38,43,47,49,53,54	159973	27	58732	140438	114617	32	48	4.11	38.57	94.66	346.61	6	343509	51.5	3	0	6
152	1,3,7,11,13,16,18,19,22,24,29,36,38,43,50,54	159093	25	58101	139559	113738	32	49	3.75	40.48	95.74	340.02	5	340735	51.5	3	0	6
153	1,3,7,11,13,16,18,19,22,24,29,39,41,40,42,46,48,51	172777	26	125525	148345	77350	31	56	3.46	36.60	123.98	350.67	7	428602	51.5	3	0	1

Westar Energy- JEC to East Manhattan
345/230 kV Transmission Line Project
Table F-1: Route Data for All Routes

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
154	1,3,7,11,13,16,18,19,22,24,29,39,41,40,42,46,48,52,53,54	169903	26	113945	145470	84584	29	55	3.59	37.00	123.98	341.98	6	397603	51.5	3	0	1
155	1,3,7,11,13,16,18,19,22,24,29,39,41,40,42,47,50,54	162111	27	86377	137679	96433	31	52	3.59	39.32	129.71	306.90	5	376136	51.5	3	0	1
156	1,3,7,11,13,16,18,19,22,24,29,39,41,40,42,49,53,54	161727	26	85745	137295	96050	29	51	3.96	37.41	126.55	311.88	6	373857	51.5	3	0	1
157	1,3,7,11,13,16,18,19,22,24,29,39,41,43,47,46,48,51	172793	27	125581	148936	77942	31	56	3.46	36.60	124.79	350.81	7	428858	51.5	3	0	1
158	1,3,7,11,13,16,18,19,22,24,29,39,41,43,47,46,48,52,53,54	169919	27	114001	146062	85176	29	55	3.59	37.00	124.79	342.12	6	397858	51.5	3	0	1
159	1,3,7,11,13,16,18,19,22,24,29,39,41,43,47,49,53,54	161743	28	85802	137886	96641	29	51	3.96	37.41	127.36	312.02	6	374113	51.5	3	0	1
160	1,3,7,11,13,16,18,19,22,24,29,39,41,43,50,54	160864	26	85170	137007	95762	29	52	3.59	39.32	128.44	305.43	5	371339	51.5	3	0	1
161	1,3,7,11,13,16,18,19,22,24,29,39,44,55	152640	21	96537	135580	94334	28	47	3.46	38.48	127.83	301.28	5	367314	51.5	3	0	1
162	1,3,7,11,13,16,18,19,22,24,29,39,45,55	167624	25	123857	143154	87718	33	52	3.87	42.83	147.89	320.54	5	423316	51.5	3	0	1
163	1,3,7,11,13,16,18,19,22,25,29,36,35,37,40,41,44,55	163373	24	82357	135138	107132	32	49	3.38	37.14	96.57	346.56	5	377018	52	3	0	1
164	1,3,7,11,13,16,18,19,22,25,29,36,35,37,40,41,45,55	178357	28	109677	142712	100515	37	54	3.78	41.49	116.62	365.82	5	433020	52	3	0	1
165	1,3,7,11,13,16,18,19,22,25,29,36,35,37,40,43,47,46,48,51	169933	28	97808	148494	90739	35	54	3.38	35.26	93.52	377.40	7	398483	52	3	0	1
166	1,3,7,11,13,16,18,19,22,25,29,36,35,37,40,43,47,46,48,52,53,54	167058	28	86227	145620	97973	33	53	3.50	35.66	93.52	368.71	6	367484	52	3	0	1
167	1,3,7,11,13,16,18,19,22,25,29,36,35,37,40,43,47,49,53,54	158883	29	58028	137445	109438	33	49	3.87	36.07	96.10	338.61	6	343739	52	3	0	1
168	1,3,7,11,13,16,18,19,22,25,29,36,35,37,40,43,50,54	158004	27	57396	136566	108559	33	50	3.50	37.98	97.18	332.02	5	340965	52	3	0	1
169	1,3,7,11,13,16,18,19,22,25,29,36,35,37,42,46,48,51	168766	25	96601	147903	90148	33	54	3.38	35.26	92.71	376.40	7	393766	52	3	0	1
170	1,3,7,11,13,16,18,19,22,25,29,36,35,37,42,46,48,52,53,54	165892	25	85021	145029	97382	31	53	3.50	35.66	92.71	367.71	6	362767	52	3	0	1
171	1,3,7,11,13,16,18,19,22,25,29,36,35,37,42,47,50,54	158100	26	57453	137237	109231	33	50	3.50	37.98	98.44	332.63	5	341301	52	3	0	1
172	1,3,7,11,13,16,18,19,22,25,29,36,35,37,42,49,53,54	157716	25	56821	136854	108847	31	49	3.87	36.07	95.28	337.61	6	339022	52	3	0	1
173	1,3,7,11,13,16,18,19,22,25,29,36,38,40,42,46,48,51	169114	26	96563	147676	99806	34	54	3.64	36.32	93.00	375.29	7	394270	52	3	0	6
174	1,3,7,11,13,16,18,19,22,25,29,36,38,40,42,46,48,52,53,54	166239	26	84983	144801	107040	32	53	3.76	36.72	93.00	366.60	6	363270	52	3	0	6
175	1,3,7,11,13,16,18,19,22,25,29,36,38,40,42,47,50,54	158448	27	57415	137010	118889	34	50	3.76	39.04	98.73	331.52	5	341804	52	3	0	6
176	1,3,7,11,13,16,18,19,22,25,29,36,38,40,42,49,53,54	158064	26	56783	136626	118505	32	49	4.13	37.13	95.57	336.50	6	339525	52	3	0	6
177	1,3,7,11,13,16,18,19,22,25,29,36,38,41,44,55	162571	23	81169	134911	116790	31	49	3.64	38.20	96.86	344.44	5	373060	52	3	0	6
178	1,3,7,11,13,16,18,19,22,25,29,36,38,41,45,55	177555	27	108488	142485	110174	36	54	4.04	42.55	116.91	363.70	5	429062	52	3	0	6
179	1,3,7,11,13,16,18,19,22,25,29,36,38,43,47,46,48,51	169130	25	96619	148267	100398	34	54	3.64	36.32	93.81	375.44	7	394525	52	3	0	6
180	1,3,7,11,13,16,18,19,22,25,29,36,38,43,47,46,48,52,53,54	166256	25	85039	145393	107632	32	53	3.76	36.72	93.81	366.75	6	363526	52	3	0	6
181	1,3,7,11,13,16,18,19,22,25,29,36,38,43,47,49,53,54	158080	26	56840	137217	119097	32	49	4.13	37.13	96.39	336.65	6	339781	52	3	0	6
182	1,3,7,11,13,16,18,19,22,25,29,36,38,43,50,54	157201	24	56208	136338	118218	32	50	3.76	39.04	97.47	330.05	5	337007	52	3	0	6
183	1,3,7,11,13,16,18,19,22,25,29,39,41,40,42,46,48,51	170885	25	123633	145124	81830	31	57	3.48	35.16	125.70	340.71	7	424874	52	3	0	1
184	1,3,7,11,13,16,18,19,22,25,29,39,41,40,42,46,48,52,53,54	168010	25	112052	142250	89064	29	56	3.60	35.56	125.70	332.02	6	393875	52	3	0	1
185	1,3,7,11,13,16,18,19,22,25,29,39,41,40,42,47,50,54	160219	26	84485	134458	100913	31	53	3.60	37.88	131.43	296.94	5	372408	52	3	0	1
186	1,3,7,11,13,16,18,19,22,25,29,39,41,40,42,49,53,54	159835	25	83853	134074	100529	29	52	3.97	35.97	128.27	301.92	6	370130	52	3	0	1
187	1,3,7,11,13,16,18,19,22,25,29,39,41,43,47,46,48,51	170901	26	123689	145715	82421	31	57	3.48	35.16	126.51	340.85	7	425130	52	3	0	1
188	1,3,7,11,13,16,18,19,22,25,29,39,41,43,47,46,48,52,53,54	168026	26	112109	142841	89656	29	56	3.60	35.56	126.51	332.16	6	394131	52	3	0	1
189	1,3,7,11,13,16,18,19,22,25,29,39,41,43,47,49,53,54	159851	27	83909	134666	101121	29	52	3.97	35.97	129.09	302.06	6	370385	52	3	0	1
190	1,3,7,11,13,16,18,19,22,25,29,39,41,43,50,54	158972	25	83278	133787	100241	29	53	3.60	37.88	130.17	295.46	5	367611	52	3	0	1
191	1,3,7,11,13,16,18,19,22,25,29,39,44,55	150748	20	94645	132359	98814	28	48	3.48	37.04	129.56	291.32	5	363586	52	3	0	1
192	1,3,7,11,13,16,18,19,22,25,29,39,45,55	165732	24	121964	139933	92198	33	53	3.89	41.39	149.61	310.57	5	419589	52	3	0	1
193	1,3,7,11,13,16,18,21,27,26,30,32,46,47,50,54	168117	31	76432	140027	111530	37	56	3.32	43.97	93.66	379.08	5	379485	32.5	3	1	5
194	1,3,7,11,13,16,18,21,27,26,30,32,46,49,53,54	167733	30	75801	139643	111146	35	55	3.69	42.06	90.50	383.48	6	377207	32.5	3	1	5
195	1,3,7,11,13,16,18,21,27,26,30,32,48,51	163325	28	100123	135236	84843	37	58	3.20	41.25	87.93	369.64	5	409689	32.5	3	1	5
196	1,3,7,11,13,16,18,21,27,26,30,32,48,52,53,54	160451	28	88543	132361	92077	35	57	3.32	41.65	87.93	360.95	4	378690	32.5	3	1	5
197	1,3,7,11,13,16,18,21,27,26,31,34,35,37,40,41,44,55	152049	26	47394	140161	115106	32	45	3.61	38.70	78.36	357.20	5	281511	21.5	3	1	1
198	1,3,7,11,13,16,18,21,27,26,31,34,35,37,40,41,45,55	167033	30	74714	147735	108490	37	50	4.02	43.05	98.41	376.45	5	337514	21.5	3	1	1
199	1,3,7,11,13,16,18,21,27,26,31,34,35,37,40,43,47,46,48,51	158608	30	62845	153517	98714	35	50	3.61	36.82	75.32	388.04	7	302977	21.5	3	1	1
200	1,3,7,11,13,16,18,21,27,26,31,34,35,37,40,43,47,46,48,52,53,54	155734	30	51264	150643	105948	33	49	3.74	37.22	75.32	379.35	6	271977	21.5	3	1	1
201	1,3,7,11,13,16,18,21,27,26,31,34,35,37,40,43,47,49,53,54	147558	31	23065	142467	117413	33	45	4.11	37.63	77.89	349.25	6	248232	21.5	3	1	1
202	1,3,7,11,13,16,18,21,27,26,31,34,35,37,40,43,50,54	146679	29	22433	141588	116534	33	46	3.74	39.54	78.97	342.65	5	245458	21.5	3	1	1
203	1,3,7,11,13,16,18,21,27,26,31,34,35,37,42,46,48,51	157442	27	61638	152926	98122	33	50	3.61	36.82	74.50	387.04	7	298260	21.5	3	1	1
204	1,3,7,11,13,16,18,21,27,26,31,34,35,37,42,46,48,52,53,54	154567	27	50058	150051	105356	31	49	3.74	37.22	74.50	378.35	6	267261	21.5	3	1	1

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
205	1,3,7,11,13,16,18,21,27,26,31,34,35,37,42,47,50,54	146776	28	22490	142260	117206	33	46	3.74	39.54	80.24	343.27	5	245795	21.5	3	1	1
206	1,3,7,11,13,16,18,21,27,26,31,34,35,37,42,49,53,54	146392	27	21858	141876	116822	31	45	4.11	37.63	77.08	348.25	6	243516	21.5	3	1	1
207	1,3,7,11,13,16,18,21,27,26,31,34,36,39,41,40,42,46,48,51	169188	30	98298	154826	89805	33	53	3.72	36.72	123.34	357.95	7	364923	21.5	3	1	1
208	1,3,7,11,13,16,18,21,27,26,31,34,36,39,41,40,42,46,48,52,53,54	166314	30	86718	151951	97039	31	52	3.84	37.12	123.34	349.26	6	333924	21.5	3	1	1
209	1,3,7,11,13,16,18,21,27,26,31,34,36,39,41,40,42,47,50,54	158522	31	59150	144160	108888	33	49	3.84	39.44	129.08	314.18	5	312457	21.5	3	1	1
210	1,3,7,11,13,16,18,21,27,26,31,34,36,39,41,40,42,49,53,54	158138	30	58518	143776	108504	31	48	4.21	37.53	125.92	319.16	6	310179	21.5	3	1	1
211	1,3,7,11,13,16,18,21,27,26,31,34,36,39,41,43,47,46,48,51	169204	31	98354	155417	90396	33	53	3.72	36.72	124.16	358.09	7	365179	21.5	3	1	1
212	1,3,7,11,13,16,18,21,27,26,31,34,36,39,41,43,47,46,48,52,53,54	166330	31	86774	152543	97630	31	52	3.84	37.12	124.16	349.40	6	334180	21.5	3	1	1
213	1,3,7,11,13,16,18,21,27,26,31,34,36,39,41,43,47,49,53,54	158155	32	58574	144367	109095	31	48	4.21	37.53	126.73	319.30	6	310435	21.5	3	1	1
214	1,3,7,11,13,16,18,21,27,26,31,34,36,39,41,43,50,54	157275	30	57943	143488	108216	31	49	3.84	39.44	127.81	312.70	5	307660	21.5	3	1	1
215	1,3,7,11,13,16,18,21,27,26,31,34,36,39,44,55	149051	25	69310	142061	106789	30	44	3.72	38.60	127.20	308.56	5	303635	21.5	3	1	1
216	1,3,7,11,13,16,18,21,27,26,31,34,36,39,45,55	164035	29	96629	149635	100172	35	49	4.12	42.95	147.25	327.81	5	359638	21.5	3	1	1
217	1,3,7,11,13,16,18,21,27,26,31,34,38,40,42,46,48,51	157789	27	61600	152698	107781	34	50	3.87	37.88	74.80	385.96	7	298763	21.5	3	1	6
218	1,3,7,11,13,16,18,21,27,26,31,34,38,40,42,46,48,52,53,54	154915	27	50020	149824	115015	32	49	4.00	38.28	74.80	377.27	6	267764	21.5	3	1	6
219	1,3,7,11,13,16,18,21,27,26,31,34,38,40,42,47,50,54	147124	28	22452	142033	126864	34	46	4.00	40.60	80.53	342.19	5	246298	21.5	3	1	6
220	1,3,7,11,13,16,18,21,27,26,31,34,38,40,42,49,53,54	146740	27	21820	141649	126480	32	45	4.36	38.69	77.37	347.17	6	244019	21.5	3	1	6
221	1,3,7,11,13,16,18,21,27,26,31,34,38,41,44,55	151246	24	46206	139934	124765	31	45	3.87	39.76	78.65	355.10	5	277554	21.5	3	1	6
222	1,3,7,11,13,16,18,21,27,26,31,34,38,41,45,55	166230	28	73525	147507	118148	36	50	4.28	44.11	98.71	374.36	5	333556	21.5	3	1	6
223	1,3,7,11,13,16,18,21,27,26,31,34,38,43,47,46,48,51	157805	26	61656	153290	108372	34	50	3.87	37.88	75.61	386.10	7	299019	21.5	3	1	6
224	1,3,7,11,13,16,18,21,27,26,31,34,38,43,47,46,48,52,53,54	154931	26	50076	150415	115606	32	49	4.00	38.28	75.61	377.41	6	268020	21.5	3	1	6
225	1,3,7,11,13,16,18,21,27,26,31,34,38,43,47,49,53,54	146756	27	21877	142240	127071	32	45	4.36	38.69	78.18	347.31	6	244275	21.5	3	1	6
226	1,3,7,11,13,16,18,21,27,26,31,34,38,43,50,54	145877	25	21245	141361	126192	32	46	4.00	40.60	79.26	340.72	5	241501	21.5	3	1	6
227	1,3,7,11,13,16,18,21,27,26,33,37,40,41,44,55	151473	22	46368	139998	110290	32	46	3.61	37.71	78.79	355.77	5	280225	21.5	3	1	1
228	1,3,7,11,13,16,18,21,27,26,33,37,40,41,45,55	166457	26	73687	147572	103673	37	51	4.02	42.06	98.84	375.02	5	336228	21.5	3	1	1
229	1,3,7,11,13,16,18,21,27,26,33,37,40,43,47,46,48,51	158032	26	61818	153354	93897	35	51	3.61	35.83	75.74	386.61	7	301690	21.5	3	1	1
230	1,3,7,11,13,16,18,21,27,26,33,37,40,43,47,46,48,52,53,54	155158	26	50238	150480	101131	33	50	3.74	36.23	75.74	377.92	6	270691	21.5	3	1	1
231	1,3,7,11,13,16,18,21,27,26,33,37,40,43,47,49,53,54	146982	27	22039	142305	112596	33	46	4.11	36.64	78.31	347.82	6	246946	21.5	3	1	1
232	1,3,7,11,13,16,18,21,27,26,33,37,40,43,50,54	146103	25	21407	141426	111717	33	47	3.74	38.55	79.40	341.23	5	244172	21.5	3	1	1
233	1,3,7,11,13,16,18,21,27,26,33,37,42,46,48,51	156866	23	60612	152763	93306	33	51	3.61	35.83	74.93	385.61	7	296974	21.5	3	1	1
234	1,3,7,11,13,16,18,21,27,26,33,37,42,46,48,52,53,54	153991	23	49031	149889	100540	31	50	3.74	36.23	74.93	376.92	6	265975	21.5	3	1	1
235	1,3,7,11,13,16,18,21,27,26,33,37,42,47,50,54	146200	24	21463	142097	112389	33	47	3.74	38.55	80.66	341.84	5	244508	21.5	3	1	1
236	1,3,7,11,13,16,18,21,27,26,33,37,42,49,53,54	145816	23	20832	141713	112005	31	46	4.11	36.64	77.50	346.82	6	242230	21.5	3	1	1
237	1,3,7,11,13,16,18,21,28,31,30,32,46,47,50,54	167474	29	74159	140227	114296	37	56	3.32	42.81	99.71	372.10	5	373509	32.5	3	0	5
238	1,3,7,11,13,16,18,21,28,31,30,32,46,49,53,54	167090	28	73528	139844	113912	35	55	3.69	40.90	96.55	376.50	6	371230	32.5	3	0	5
239	1,3,7,11,13,16,18,21,28,31,30,32,48,51	162683	26	97850	135436	87609	37	58	3.20	40.09	93.98	362.65	5	403713	32.5	3	0	5
240	1,3,7,11,13,16,18,21,28,31,30,32,48,52,53,54	159808	26	86270	132562	94843	35	57	3.32	40.49	93.98	353.96	4	372714	32.5	3	0	5
241	1,3,7,11,13,16,18,21,28,31,33,37,40,41,44,55	150830	22	44095	140199	113056	32	46	3.61	36.55	84.84	348.73	5	274249	21.5	3	0	1
242	1,3,7,11,13,16,18,21,28,31,33,37,40,41,45,55	165814	26	71414	147772	106440	37	51	4.02	40.90	104.89	367.99	5	330251	21.5	3	0	1
243	1,3,7,11,13,16,18,21,28,31,33,37,40,43,47,46,48,51	157390	26	59545	153555	96663	35	51	3.61	34.66	81.79	379.57	7	295714	21.5	3	0	1
244	1,3,7,11,13,16,18,21,28,31,33,37,40,43,47,46,48,52,53,54	154515	26	47965	150680	103897	33	50	3.74	35.07	81.79	370.88	6	264715	21.5	3	0	1
245	1,3,7,11,13,16,18,21,28,31,33,37,40,43,47,49,53,54	146340	27	19766	142505	115362	33	46	4.11	35.48	84.36	340.78	6	240970	21.5	3	0	1
246	1,3,7,11,13,16,18,21,28,31,33,37,40,43,50,54	145461	25	19134	141626	114483	33	47	3.74	37.39	85.44	334.19	5	238196	21.5	3	0	1
247	1,3,7,11,13,16,18,21,28,31,33,37,42,46,48,51	156223	23	58339	152963	96072	33	51	3.61	34.66	80.98	378.57	7	290997	21.5	3	0	1
248	1,3,7,11,13,16,18,21,28,31,33,37,42,46,48,52,53,54	153349	23	46758	150089	103306	31	50	3.74	35.07	80.98	369.88	6	259998	21.5	3	0	1
249	1,3,7,11,13,16,18,21,28,31,33,37,42,47,50,54	145557	24	19190	142298	115155	33	47	3.74	37.39	86.71	334.80	5	238532	21.5	3	0	1
250	1,3,7,11,13,16,18,21,28,31,33,37,42,49,53,54	145173	23	18559	141914	114771	31	46	4.11	35.48	83.55	339.78	6	236253	21.5	3	0	1
251	1,3,7,11,13,16,18,21,28,34,35,37,40,41,44,55	150580	22	44294	140361	117873	32	45	3.61	37.54	83.79	348.04	5	271402	21.5	3	0	1
252	1,3,7,11,13,16,18,21,28,34,35,37,40,41,45,55	165564	26	71614	147935	111256	37	50	4.02	41.89	103.85	367.30	5	327404	21.5	3	0	1
253	1,3,7,11,13,16,18,21,28,34,35,37,40,43,47,46,48,51	157139	26	59745	153717	101480	35	50	3.61	35.66	80.75	378.88	7	292867	21.5	3	0	1
254	1,3,7,11,13,16,18,21,28,34,35,37,40,43,47,46,48,52,53,54	154265	26	48165	150843	108714	33	49	3.74	36.06	80.75	370.19	6	261868	21.5	3	0	1
255	1,3,7,11,13,16,18,21,28,34,35,37,40,43,47,49,53,54	146089	27	19965	142668	120179	33	45	4.11	36.47	83.32	340.09	6	238123	21.5	3	0	1

Table F-1: Route Data for All Routes

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
256	1,3,7,11,13,16,18,21,28,34,35,37,40,43,50,54	145210	25	19334	141788	119300	33	46	3.74	38.38	84.40	333.50	5	235349	21.5	3	0	1
257	1,3,7,11,13,16,18,21,28,34,35,37,42,46,48,51	155972	23	58538	153126	100889	33	50	3.61	35.66	79.93	377.88	7	288151	21.5	3	0	1
258	1,3,7,11,13,16,18,21,28,34,35,37,42,46,48,52,53,54	153098	23	46958	150252	108123	31	49	3.74	36.06	79.93	369.19	6	257152	21.5	3	0	1
259	1,3,7,11,13,16,18,21,28,34,35,37,42,47,50,54	145307	24	19390	142460	119972	33	46	3.74	38.38	85.67	334.11	5	235685	21.5	3	0	1
260	1,3,7,11,13,16,18,21,28,34,35,37,42,49,53,54	144923	23	18758	142076	119588	31	45	4.11	36.47	82.51	339.09	6	233406	21.5	3	0	1
261	1,3,7,11,13,16,18,21,28,34,36,39,41,40,42,46,48,51	167719	26	95198	155026	92571	33	53	3.72	35.56	128.77	348.79	7	354814	21.5	3	0	1
262	1,3,7,11,13,16,18,21,28,34,36,39,41,40,42,46,48,52,53,54	164845	26	83618	152151	99805	31	52	3.84	35.96	128.77	340.10	6	323814	21.5	3	0	1
263	1,3,7,11,13,16,18,21,28,34,36,39,41,40,42,47,50,54	157053	27	56050	144360	111654	33	49	3.84	38.28	134.51	305.02	5	302348	21.5	3	0	1
264	1,3,7,11,13,16,18,21,28,34,36,39,41,40,42,49,53,54	156669	26	55418	143976	111270	31	48	4.21	36.37	131.35	310.00	6	300069	21.5	3	0	1
265	1,3,7,11,13,16,18,21,28,34,36,39,41,43,47,46,48,51	167735	27	95254	155617	93162	33	53	3.72	35.56	129.59	348.93	7	355069	21.5	3	0	1
266	1,3,7,11,13,16,18,21,28,34,36,39,41,43,47,46,48,52,53,54	164861	27	83674	152743	100396	31	52	3.84	35.96	129.59	340.24	6	324070	21.5	3	0	1
267	1,3,7,11,13,16,18,21,28,34,36,39,41,43,47,49,53,54	156686	28	55475	144567	111861	31	48	4.21	36.37	132.16	310.14	6	300325	21.5	3	0	1
268	1,3,7,11,13,16,18,21,28,34,36,39,41,43,50,54	155806	26	54843	143688	110982	31	49	3.84	38.28	133.24	303.55	5	297551	21.5	3	0	1
269	1,3,7,11,13,16,18,21,28,34,36,39,44,55	147582	21	66210	142261	109555	30	44	3.72	37.44	132.63	299.40	5	293526	21.5	3	0	1
270	1,3,7,11,13,16,18,21,28,34,36,39,45,55	162566	25	93530	149835	102939	35	49	4.12	41.79	152.69	318.66	5	349528	21.5	3	0	1
271	1,3,7,11,13,16,18,21,28,34,38,40,42,46,48,51	156320	23	58500	152899	110547	34	50	3.87	36.72	80.23	376.80	7	288654	21.5	3	0	6
272	1,3,7,11,13,16,18,21,28,34,38,40,42,46,48,52,53,54	153446	23	46920	150024	117781	32	49	4.00	37.12	80.23	368.11	6	257655	21.5	3	0	6
273	1,3,7,11,13,16,18,21,28,34,38,40,42,47,50,54	145654	24	19352	142233	129630	34	46	4.00	39.44	85.96	333.03	5	236188	21.5	3	0	6
274	1,3,7,11,13,16,18,21,28,34,38,40,42,49,53,54	145271	23	18721	141849	129246	32	45	4.36	37.53	82.80	338.01	6	233909	21.5	3	0	6
275	1,3,7,11,13,16,18,21,28,34,38,41,44,55	149777	20	43106	140134	127531	31	45	3.87	38.60	84.08	345.95	5	267444	21.5	3	0	6
276	1,3,7,11,13,16,18,21,28,34,38,41,45,55	164761	24	70426	147708	120915	36	50	4.28	42.95	104.14	365.20	5	323447	21.5	3	0	6
277	1,3,7,11,13,16,18,21,28,34,38,43,47,46,48,51	156336	22	58557	153490	111138	34	50	3.87	36.72	81.04	376.95	7	288909	21.5	3	0	6
278	1,3,7,11,13,16,18,21,28,34,38,43,47,46,48,52,53,54	153462	22	46977	150615	118373	32	49	4.00	37.12	81.04	368.26	6	257910	21.5	3	0	6
279	1,3,7,11,13,16,18,21,28,34,38,43,47,49,53,54	145287	23	18777	142440	129838	32	45	4.36	37.53	83.61	338.16	6	234165	21.5	3	0	6
280	1,3,7,11,13,16,18,21,28,34,38,43,50,54	144407	21	18146	141561	128958	32	46	4.00	39.44	84.69	331.56	5	231391	21.5	3	0	6
281	1,3,7,11,13,16,20,23,26,30,32,46,47,50,54	167342	27	71109	141867	111070	35	54	3.81	45.73	104.63	366.94	5	358575	31	3	1	5
282	1,3,7,11,13,16,20,23,26,30,32,46,49,53,54	166958	26	70478	141483	110686	33	53	4.17	43.82	101.47	371.34	6	356296	31	3	1	5
283	1,3,7,11,13,16,20,23,26,30,32,48,51	162550	24	94800	137076	84383	35	56	3.68	43.01	98.90	357.49	5	388779	31	3	1	5
284	1,3,7,11,13,16,20,23,26,30,32,48,52,53,54	159676	24	83220	134201	91617	33	55	3.81	43.41	98.90	348.80	4	357780	31	3	1	5
285	1,3,7,11,13,16,20,23,26,31,34,35,37,40,41,44,55	151274	22	42071	142001	114647	30	43	4.10	40.46	89.34	345.05	5	260601	20	3	1	1
286	1,3,7,11,13,16,20,23,26,31,34,35,37,40,41,45,55	166258	26	69391	149575	108030	35	48	4.51	44.81	109.39	364.31	5	316603	20	3	1	1
287	1,3,7,11,13,16,20,23,26,31,34,35,37,40,43,47,46,48,51	157833	26	57522	155357	98254	33	48	4.10	38.58	86.29	375.89	7	282066	20	3	1	1
288	1,3,7,11,13,16,20,23,26,31,34,35,37,40,43,47,46,48,52,53,54	154959	26	45941	152483	105488	31	47	4.23	38.98	86.29	367.20	6	251067	20	3	1	1
289	1,3,7,11,13,16,20,23,26,31,34,35,37,40,43,47,49,53,54	146783	27	17742	144307	116953	31	43	4.59	39.39	88.86	337.10	6	227321	20	3	1	1
290	1,3,7,11,13,16,20,23,26,31,34,35,37,40,43,50,54	145904	25	17110	143428	116074	31	44	4.23	41.30	89.94	330.51	5	224547	20	3	1	1
291	1,3,7,11,13,16,20,23,26,31,34,35,37,42,46,48,51	156666	23	56315	154766	97663	31	48	4.10	38.58	85.48	374.89	7	277349	20	3	1	1
292	1,3,7,11,13,16,20,23,26,31,34,35,37,42,46,48,52,53,54	153792	23	44735	151891	104897	29	47	4.23	38.98	85.48	366.20	6	246350	20	3	1	1
293	1,3,7,11,13,16,20,23,26,31,34,35,37,42,47,50,54	146001	24	17167	144100	116746	31	44	4.23	41.30	91.21	331.12	5	224884	20	3	1	1
294	1,3,7,11,13,16,20,23,26,31,34,35,37,42,49,53,54	145617	23	16535	143716	116362	29	43	4.59	39.39	88.05	336.10	6	222605	20	3	1	1
295	1,3,7,11,13,16,20,23,26,31,34,36,39,41,40,42,46,48,51	168413	26	92975	156666	89345	31	51	4.20	38.48	134.32	345.80	7	344012	20	3	1	1
296	1,3,7,11,13,16,20,23,26,31,34,36,39,41,40,42,46,48,52,53,54	165539	26	81395	153791	96579	29	50	4.33	38.88	134.32	337.11	6	313013	20	3	1	1
297	1,3,7,11,13,16,20,23,26,31,34,36,39,41,40,42,47,50,54	157747	27	53827	146000	108428	31	47	4.33	41.20	140.05	302.03	5	291547	20	3	1	1
298	1,3,7,11,13,16,20,23,26,31,34,36,39,41,40,42,49,53,54	157363	26	53195	145616	108044	29	46	4.69	39.29	136.89	307.01	6	289268	20	3	1	1
299	1,3,7,11,13,16,20,23,26,31,34,36,39,41,43,47,46,48,51	168429	27	93031	157257	89936	31	51	4.20	38.48	135.13	345.94	7	344268	20	3	1	1
300	1,3,7,11,13,16,20,23,26,31,34,36,39,41,43,47,46,48,52,53,54	165555	27	81451	154383	97170	29	50	4.33	38.88	135.13	337.25	6	313269	20	3	1	1
301	1,3,7,11,13,16,20,23,26,31,34,36,39,41,43,47,49,53,54	157379	28	53252	146207	108635	29	46	4.69	39.29	137.70	307.15	6	289524	20	3	1	1
302	1,3,7,11,13,16,20,23,26,31,34,36,39,41,43,50,54	156500	26	52620	145328	107756	29	47	4.33	41.20	138.78	300.56	5	286750	20	3	1	1
303	1,3,7,11,13,16,20,23,26,31,34,36,39,44,55	148276	21	63987	143901	106329	28	42	4.20	40.36	138.18	296.41	5	282725	20	3	1	1
304	1,3,7,11,13,16,20,23,26,31,34,36,39,45,55	163260	25	91306	151475	99712	33	47	4.61	44.71	158.23	315.67	5	338727	20	3	1	1
305	1,3,7,11,13,16,20,23,26,31,34,38,40,42,46,48,51	157014	23	56277	154538	107321	32	48	4.36	39.64	85.77	373.81	7	277852	20	3	1	6
306	1,3,7,11,13,16,20,23,26,31,34,38,40,42,46,48,52,53,54	154140	23	44697	151664	114555	30	47	4.48	40.04	85.77	365.12	6	246853	20	3	1	6

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
307	1,3,7,11,13,16,20,23,26,31,34,38,40,42,47,50,54	146348	24	17129	143873	126404	32	44	4.48	42.36	91.50	330.04	5	225387	20	3	1	6
308	1,3,7,11,13,16,20,23,26,31,34,38,40,42,49,53,54	145964	23	16497	143489	126020	30	43	4.85	40.45	88.34	335.02	6	223108	20	3	1	6
309	1,3,7,11,13,16,20,23,26,31,34,38,41,44,55	150471	20	40883	141774	124305	29	43	4.36	41.52	89.63	342.96	5	256643	20	3	1	6
310	1,3,7,11,13,16,20,23,26,31,34,38,41,45,55	165455	24	68203	149347	117689	34	48	4.76	45.87	109.68	362.22	5	312645	20	3	1	6
311	1,3,7,11,13,16,20,23,26,31,34,38,43,47,46,48,51	157030	22	56334	155130	107912	32	48	4.36	39.64	86.58	373.96	7	278108	20	3	1	6
312	1,3,7,11,13,16,20,23,26,31,34,38,43,47,46,48,52,53,54	154156	22	44753	152255	115146	30	47	4.48	40.04	86.58	365.27	6	247109	20	3	1	6
313	1,3,7,11,13,16,20,23,26,31,34,38,43,47,49,53,54	145981	23	16554	144080	126612	30	43	4.85	40.45	89.16	335.17	6	223364	20	3	1	6
314	1,3,7,11,13,16,20,23,26,31,34,38,43,50,54	145101	21	15922	143201	125732	30	44	4.48	42.36	90.24	328.57	5	220590	20	3	1	6
315	1,3,7,11,13,16,20,23,26,33,37,40,41,44,55	150698	18	41045	141838	109830	30	44	4.10	39.47	89.76	343.62	5	259314	20	3	1	1
316	1,3,7,11,13,16,20,23,26,33,37,40,41,45,55	165682	22	68364	149412	103213	35	49	4.51	43.82	109.81	362.88	5	315317	20	3	1	1
317	1,3,7,11,13,16,20,23,26,33,37,40,43,47,46,48,51	157257	22	56495	155194	93437	33	49	4.10	37.59	86.72	374.46	7	280780	20	3	1	1
318	1,3,7,11,13,16,20,23,26,33,37,40,43,47,46,48,52,53,54	154383	22	44915	152320	100671	31	48	4.23	37.99	86.72	365.77	6	249781	20	3	1	1
319	1,3,7,11,13,16,20,23,26,33,37,40,43,47,49,53,54	146207	23	16716	144145	112136	31	44	4.59	38.40	89.29	335.67	6	226035	20	3	1	1
320	1,3,7,11,13,16,20,23,26,33,37,40,43,50,54	145328	21	16084	143266	111257	31	45	4.23	40.31	90.37	329.08	5	223261	20	3	1	1
321	1,3,7,11,13,16,20,23,26,33,37,42,46,48,51	156090	19	55289	154603	92846	31	49	4.10	37.59	85.90	373.46	7	276063	20	3	1	1
322	1,3,7,11,13,16,20,23,26,33,37,42,46,48,52,53,54	153216	19	43708	151729	100080	29	48	4.23	37.99	85.90	364.77	6	245064	20	3	1	1
323	1,3,7,11,13,16,20,23,26,33,37,42,47,50,54	145425	20	16141	143937	111929	31	45	4.23	40.31	91.64	329.69	5	223598	20	3	1	1
324	1,3,7,11,13,16,20,23,26,33,37,42,49,53,54	145041	19	15509	143553	111545	29	44	4.59	38.40	88.48	334.67	6	221319	20	3	1	1
325	1,3,7,11,13,16,20,23,27,28,31,30,32,46,47,50,54	167653	27	69790	142067	113836	35	54	3.81	44.57	113.78	359.96	5	356412	31	3	0	5
326	1,3,7,11,13,16,20,23,27,28,31,30,32,46,49,53,54	167269	26	69158	141683	113452	33	53	4.17	42.66	110.62	364.35	6	354133	31	3	0	5
327	1,3,7,11,13,16,20,23,27,28,31,30,32,48,51	162861	24	93481	137276	87149	35	56	3.68	41.85	108.04	350.51	5	386616	31	3	0	5
328	1,3,7,11,13,16,20,23,27,28,31,30,32,48,52,53,54	159987	24	81901	134402	94384	33	55	3.81	42.25	108.04	341.82	4	355617	31	3	0	5
329	1,3,7,11,13,16,20,23,27,28,31,33,37,40,41,44,55	151009	20	39725	142039	112596	30	44	4.10	38.31	98.90	336.58	5	257152	20	3	0	1
330	1,3,7,11,13,16,20,23,27,28,31,33,37,40,41,45,55	165993	24	67045	149612	105980	35	49	4.51	42.66	118.96	355.84	5	313154	20	3	0	1
331	1,3,7,11,13,16,20,23,27,28,31,33,37,40,43,47,46,48,51	157568	24	55176	155395	96203	33	49	4.10	36.43	95.86	367.43	7	278617	20	3	0	1
332	1,3,7,11,13,16,20,23,27,28,31,33,37,40,43,47,46,48,52,53,54	154694	24	43596	152520	103438	31	48	4.23	36.83	95.86	358.74	6	247618	20	3	0	1
333	1,3,7,11,13,16,20,23,27,28,31,33,37,40,43,47,49,53,54	146518	25	15396	144345	114903	31	44	4.59	37.24	98.43	328.64	6	223873	20	3	0	1
334	1,3,7,11,13,16,20,23,27,28,31,33,37,40,43,50,54	145639	23	14765	143466	114023	31	45	4.23	39.15	99.51	322.04	5	221099	20	3	0	1
335	1,3,7,11,13,16,20,23,27,28,31,33,37,42,46,48,51	156401	21	53969	154803	95612	31	49	4.10	36.43	95.05	366.43	7	273901	20	3	0	1
336	1,3,7,11,13,16,20,23,27,28,31,33,37,42,46,48,52,53,54	153527	21	42389	151929	102846	29	48	4.23	36.83	95.05	357.73	6	242902	20	3	0	1
337	1,3,7,11,13,16,20,23,27,28,31,33,37,42,47,50,54	145736	22	14821	144138	114695	31	45	4.23	39.15	100.78	322.65	5	221435	20	3	0	1
338	1,3,7,11,13,16,20,23,27,28,31,33,37,42,49,53,54	145352	21	14189	143754	114311	29	44	4.59	37.24	97.62	327.64	6	219156	20	3	0	1
339	1,3,7,11,13,16,20,23,27,28,34,35,37,40,41,44,55	150758	20	39925	142201	117413	30	43	4.10	39.30	97.86	335.89	5	254305	20	3	0	1
340	1,3,7,11,13,16,20,23,27,28,34,35,37,40,41,45,55	165742	24	67245	149775	110796	35	48	4.51	43.65	117.91	355.15	5	310307	20	3	0	1
341	1,3,7,11,13,16,20,23,27,28,34,35,37,40,43,47,46,48,51	157317	24	55376	155557	101020	33	48	4.10	37.42	94.82	366.74	7	275770	20	3	0	1
342	1,3,7,11,13,16,20,23,27,28,34,35,37,40,43,47,46,48,52,53,54	154443	24	43795	152683	108254	31	47	4.23	37.82	94.82	358.05	6	244771	20	3	0	1
343	1,3,7,11,13,16,20,23,27,28,34,35,37,40,43,47,49,53,54	146268	25	15596	144508	119719	31	43	4.59	38.23	97.39	327.95	6	221026	20	3	0	1
344	1,3,7,11,13,16,20,23,27,28,34,35,37,40,43,50,54	145388	23	14964	143628	118840	31	44	4.23	40.14	98.47	321.35	5	218252	20	3	0	1
345	1,3,7,11,13,16,20,23,27,28,34,35,37,42,46,48,51	156151	21	54169	154966	100429	31	48	4.10	37.42	94.00	365.74	7	271054	20	3	0	1
346	1,3,7,11,13,16,20,23,27,28,34,35,37,42,46,48,52,53,54	153276	21	42589	152092	107663	29	47	4.23	37.82	94.00	357.05	6	240055	20	3	0	1
347	1,3,7,11,13,16,20,23,27,28,34,35,37,42,47,50,54	145485	22	15021	144300	119512	31	44	4.23	40.14	99.74	321.96	5	218588	20	3	0	1
348	1,3,7,11,13,16,20,23,27,28,34,35,37,42,49,53,54	145101	21	14389	143916	119128	29	43	4.59	38.23	96.58	326.95	6	216309	20	3	0	1
349	1,3,7,11,13,16,20,23,27,28,34,36,39,41,40,42,46,48,51	167897	24	90829	156866	92111	31	51	4.20	37.32	142.84	336.65	7	337717	20	3	0	1
350	1,3,7,11,13,16,20,23,27,28,34,36,39,41,40,42,46,48,52,53,54	165023	24	79249	153991	99345	29	50	4.33	37.72	142.84	327.95	6	306718	20	3	0	1
351	1,3,7,11,13,16,20,23,27,28,34,36,39,41,40,42,47,50,54	157232	25	51681	146200	111194	31	47	4.33	40.04	148.58	292.87	5	285251	20	3	0	1
352	1,3,7,11,13,16,20,23,27,28,34,36,39,41,40,42,49,53,54	156848	24	51049	145816	110810	29	46	4.69	38.13	145.42	297.86	6	282972	20	3	0	1
353	1,3,7,11,13,16,20,23,27,28,34,36,39,41,43,47,46,48,51	167913	25	90885	157457	92702	31	51	4.20	37.32	143.66	336.79	7	337973	20	3	0	1
354	1,3,7,11,13,16,20,23,27,28,34,36,39,41,43,47,46,48,52,53,54	165039	25	79305	154583	99937	29	50	4.33	37.72	143.66	328.10	6	306974	20	3	0	1
355	1,3,7,11,13,16,20,23,27,28,34,36,39,41,43,47,49,53,54	156864	26	51105	146407	111402	29	46	4.69	38.13	146.23	298.00	6	283228	20	3	0	1
356	1,3,7,11,13,16,20,23,27,28,34,36,39,41,43,50,54	155985	24	50474	145528	110522	29	47	4.33	40.04	147.31	291.40	5	280454	20	3	0	1
357	1,3,7,11,13,16,20,23,27,28,34,36,39,44,55	147761	19	61841	144101	109095	28	42	4.20	39.20	146.70	287.26	5	276429	20	3	0	1

Table F-1: Route Data for All Routes

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
358	1,3,7,11,13,16,20,23,27,28,34,36,39,45,55	162744	23	89160	151675	102479	33	47	4.61	43.55	166.75	306.51	5	332431	20	3	0	1
359	1,3,7,11,13,16,20,23,27,28,34,38,40,42,46,48,51	156499	21	54131	154738	110087	32	48	4.36	38.48	94.30	364.66	7	271557	20	3	0	6
360	1,3,7,11,13,16,20,23,27,28,34,38,40,42,46,48,52,53,54	153624	21	42551	151864	117321	30	47	4.48	38.88	94.30	355.96	6	240558	20	3	0	6
361	1,3,7,11,13,16,20,23,27,28,34,38,40,42,47,50,54	145833	22	14983	144073	129170	32	44	4.48	41.20	100.03	320.88	5	219091	20	3	0	6
362	1,3,7,11,13,16,20,23,27,28,34,38,40,42,49,53,54	145449	21	14351	143689	128786	30	43	4.85	39.29	96.87	325.87	6	216812	20	3	0	6
363	1,3,7,11,13,16,20,23,27,28,34,38,41,44,55	149956	18	38737	141974	127071	29	43	4.36	40.36	98.15	333.80	5	250348	20	3	0	6
364	1,3,7,11,13,16,20,23,27,28,34,38,41,45,55	164939	22	66056	149548	120455	34	48	4.76	44.71	118.21	353.06	5	306350	20	3	0	6
365	1,3,7,11,13,16,20,23,27,28,34,38,43,47,46,48,51	156515	20	54187	155330	110679	32	48	4.36	38.48	95.11	364.80	7	271813	20	3	0	6
366	1,3,7,11,13,16,20,23,27,28,34,38,43,47,46,48,52,53,54	153640	20	42607	152455	117913	30	47	4.48	38.88	95.11	356.11	6	240814	20	3	0	6
367	1,3,7,11,13,16,20,23,27,28,34,38,43,47,49,53,54	145465	21	14408	144280	129378	30	43	4.85	39.29	97.68	326.01	6	217068	20	3	0	6
368	1,3,7,11,13,16,20,23,27,28,34,38,43,50,54	144586	19	13776	143401	128499	30	44	4.48	41.20	98.76	319.42	5	214294	20	3	0	6
369	1,3,7,11,17,18,20,23,26,30,32,46,47,50,54	167405	27	71174	141566	107159	35	55	3.81	45.73	104.63	366.29	5	359370	21.5	3	1	5
370	1,3,7,11,17,18,20,23,26,30,32,46,49,53,54	167021	26	70543	141182	106775	33	54	4.17	43.82	101.47	370.68	6	357091	21.5	3	1	5
371	1,3,7,11,17,18,20,23,26,30,32,48,51	162614	24	94865	136775	80472	35	57	3.68	43.01	98.90	356.84	5	389574	21.5	3	1	5
372	1,3,7,11,17,18,20,23,26,30,32,48,52,53,54	159739	24	83285	133900	87706	33	56	3.81	43.41	98.90	348.15	4	358575	21.5	3	1	5
373	1,3,7,11,17,18,20,23,26,31,34,35,37,40,41,44,55	151337	22	42136	141700	110735	30	44	4.10	40.46	89.34	344.40	5	261396	10.5	3	1	1
374	1,3,7,11,17,18,20,23,26,31,34,35,37,40,41,45,55	166321	26	69455	149274	104119	35	49	4.51	44.81	109.39	363.66	5	317398	10.5	3	1	1
375	1,3,7,11,17,18,20,23,26,31,34,35,37,40,43,47,46,48,51	157897	26	57586	155056	94343	33	49	4.10	38.58	86.29	375.24	7	282861	10.5	3	1	1
376	1,3,7,11,17,18,20,23,26,31,34,35,37,40,43,47,46,48,52,53,54	155022	26	46006	152182	101577	31	48	4.23	38.98	86.29	366.55	6	251862	10.5	3	1	1
377	1,3,7,11,17,18,20,23,26,31,34,35,37,40,43,47,49,53,54	146847	27	17807	144006	113042	31	44	4.59	39.39	88.86	336.45	6	228116	10.5	3	1	1
378	1,3,7,11,17,18,20,23,26,31,34,35,37,40,43,50,54	145968	25	17175	143127	112162	31	45	4.23	41.30	89.94	329.86	5	225342	10.5	3	1	1
379	1,3,7,11,17,18,20,23,26,31,34,35,37,42,46,48,51	156730	23	56380	154465	93751	31	49	4.10	38.58	85.48	374.24	7	278144	10.5	3	1	1
380	1,3,7,11,17,18,20,23,26,31,34,35,37,42,46,48,52,53,54	153856	23	44800	151590	100985	29	48	4.23	38.98	85.48	365.55	6	247145	10.5	3	1	1
381	1,3,7,11,17,18,20,23,26,31,34,35,37,42,47,50,54	146064	24	17232	143799	112834	31	45	4.23	41.30	91.21	330.47	5	225679	10.5	3	1	1
382	1,3,7,11,17,18,20,23,26,31,34,35,37,42,49,53,54	145680	23	16600	143415	112450	29	44	4.59	39.39	88.05	335.45	6	223400	10.5	3	1	1
383	1,3,7,11,17,18,20,23,26,31,34,36,39,41,40,42,46,48,51	168477	26	93040	156364	85434	31	52	4.20	38.48	134.32	345.15	7	344807	10.5	3	1	1
384	1,3,7,11,17,18,20,23,26,31,34,36,39,41,40,42,46,48,52,53,54	165602	26	81459	153490	92668	29	51	4.33	38.88	134.32	336.46	6	313808	10.5	3	1	1
385	1,3,7,11,17,18,20,23,26,31,34,36,39,41,40,42,47,50,54	157811	27	53892	145699	104517	31	48	4.33	41.20	140.05	301.38	5	292342	10.5	3	1	1
386	1,3,7,11,17,18,20,23,26,31,34,36,39,41,40,42,49,53,54	157427	26	53260	145315	104133	29	47	4.69	39.29	136.89	306.36	6	290063	10.5	3	1	1
387	1,3,7,11,17,18,20,23,26,31,34,36,39,41,43,47,46,48,51	168493	27	93096	156956	86025	31	52	4.20	38.48	135.13	345.29	7	345063	10.5	3	1	1
388	1,3,7,11,17,18,20,23,26,31,34,36,39,41,43,47,46,48,52,53,54	165618	27	81516	154081	93259	29	51	4.33	38.88	135.13	336.60	6	314064	10.5	3	1	1
389	1,3,7,11,17,18,20,23,26,31,34,36,39,41,43,47,49,53,54	157443	28	53316	145906	104724	29	47	4.69	39.29	137.70	306.50	6	290319	10.5	3	1	1
390	1,3,7,11,17,18,20,23,26,31,34,36,39,41,43,50,54	156564	26	52685	145027	103845	29	48	4.33	41.20	138.78	299.91	5	287545	10.5	3	1	1
391	1,3,7,11,17,18,20,23,26,31,34,36,39,44,55	148340	21	64052	143600	102418	28	43	4.20	40.36	138.18	295.76	5	283520	10.5	3	1	1
392	1,3,7,11,17,18,20,23,26,31,34,36,39,45,55	163324	25	91371	151173	95801	33	48	4.61	44.71	158.23	315.02	5	339522	10.5	3	1	1
393	1,3,7,11,17,18,20,23,26,31,34,38,40,42,46,48,51	157078	23	56342	154237	103410	32	49	4.36	39.64	85.77	373.16	7	278647	10.5	3	1	6
394	1,3,7,11,17,18,20,23,26,31,34,38,40,42,46,48,52,53,54	154203	23	44762	151363	110644	30	48	4.48	40.04	85.77	364.47	6	247648	10.5	3	1	6
395	1,3,7,11,17,18,20,23,26,31,34,38,40,42,47,50,54	146412	24	17194	143571	122493	32	45	4.48	42.36	91.50	329.39	5	226182	10.5	3	1	6
396	1,3,7,11,17,18,20,23,26,31,34,38,40,42,49,53,54	146028	23	16562	143187	122109	30	44	4.85	40.45	88.34	334.37	6	223903	10.5	3	1	6
397	1,3,7,11,17,18,20,23,26,31,34,38,41,44,55	150535	20	40948	141472	120394	29	44	4.36	41.52	89.63	342.31	5	257438	10.5	3	1	6
398	1,3,7,11,17,18,20,23,26,31,34,38,41,45,55	165519	24	68267	149046	113777	34	49	4.76	45.87	109.68	361.57	5	313440	10.5	3	1	6
399	1,3,7,11,17,18,20,23,26,31,34,38,43,47,46,48,51	157094	22	56398	154828	104001	32	49	4.36	39.64	86.58	373.31	7	278903	10.5	3	1	6
400	1,3,7,11,17,18,20,23,26,31,34,38,43,47,46,48,52,53,54	154220	22	44818	151954	111235	30	48	4.48	40.04	86.58	364.62	6	247904	10.5	3	1	6
401	1,3,7,11,17,18,20,23,26,31,34,38,43,47,49,53,54	146044	23	16619	143779	122700	30	44	4.85	40.45	89.16	334.52	6	224159	10.5	3	1	6
402	1,3,7,11,17,18,20,23,26,31,34,38,43,50,54	145165	21	15987	142900	121821	30	45	4.48	42.36	90.24	327.92	5	221385	10.5	3	1	6
403	1,3,7,11,17,18,20,23,26,33,37,40,41,44,55	150761	18	41110	141537	105919	30	45	4.10	39.47	89.76	342.97	5	260110	10.5	3	1	1
404	1,3,7,11,17,18,20,23,26,33,37,40,41,45,55	165745	22	68429	149111	99302	35	50	4.51	43.82	109.81	362.23	5	316112	10.5	3	1	1
405	1,3,7,11,17,18,20,23,26,33,37,40,43,47,46,48,51	157321	22	56560	154893	89526	33	50	4.10	37.59	86.72	373.81	7	281575	10.5	3	1	1
406	1,3,7,11,17,18,20,23,26,33,37,40,43,47,46,48,52,53,54	154446	22	44980	152019	96760	31	49	4.23	37.99	86.72	365.12	6	250576	10.5	3	1	1
407	1,3,7,11,17,18,20,23,26,33,37,40,43,47,49,53,54	146271	23	16781	143844	108225	31	45	4.59	38.40	89.29	335.02	6	226830	10.5	3	1	1
408	1,3,7,11,17,18,20,23,26,33,37,40,43,50,54	145392	21	16149	142964	107346	31	46	4.23	40.31	90.37	328.43	5	224056	10.5	3	1	1

Table F-1: Route Data for All Routes

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
409	1,3,7,11,17,18,20,23,26,33,37,42,46,48,51	156154	19	55353	154302	88935	31	50	4.10	37.59	85.90	372.81	7	276858	10.5	3	1	1
410	1,3,7,11,17,18,20,23,26,33,37,42,46,48,52,53,54	153280	19	43773	151428	96169	29	49	4.23	37.99	85.90	364.12	6	245859	10.5	3	1	1
411	1,3,7,11,17,18,20,23,26,33,37,42,47,50,54	145488	20	16205	143636	108018	31	46	4.23	40.31	91.64	329.04	5	224393	10.5	3	1	1
412	1,3,7,11,17,18,20,23,26,33,37,42,49,53,54	145104	19	15574	143252	107634	29	45	4.59	38.40	88.48	334.02	6	222114	10.5	3	1	1
413	1,3,7,11,17,18,20,23,27,28,31,30,32,46,47,50,54	167716	27	69855	141766	109925	35	55	3.81	44.57	113.78	359.30	5	357207	21.5	3	0	5
414	1,3,7,11,17,18,20,23,27,28,31,30,32,46,49,53,54	167332	26	69223	141382	109541	33	54	4.17	42.66	110.62	363.70	6	354928	21.5	3	0	5
415	1,3,7,11,17,18,20,23,27,28,31,30,32,48,51	162925	24	93546	136975	83238	35	57	3.68	41.85	108.04	349.86	5	387411	21.5	3	0	5
416	1,3,7,11,17,18,20,23,27,28,31,30,32,48,52,53,54	160050	24	81965	134100	90472	33	56	3.81	42.25	108.04	341.17	4	356412	21.5	3	0	5
417	1,3,7,11,17,18,20,23,27,28,31,33,37,40,41,44,55	151072	20	39790	141737	108685	30	45	4.10	38.31	98.90	335.93	5	257947	10.5	3	0	1
418	1,3,7,11,17,18,20,23,27,28,31,33,37,40,41,45,55	166056	24	67110	149311	102068	35	50	4.51	42.66	118.96	355.19	5	313949	10.5	3	0	1
419	1,3,7,11,17,18,20,23,27,28,31,33,37,40,43,47,46,48,51	157632	24	55241	155093	92292	33	50	4.10	36.43	95.86	366.78	7	279412	10.5	3	0	1
420	1,3,7,11,17,18,20,23,27,28,31,33,37,40,43,47,46,48,52,53,54	154757	24	43661	152219	99526	31	49	4.23	36.83	95.86	358.08	6	248413	10.5	3	0	1
421	1,3,7,11,17,18,20,23,27,28,31,33,37,40,43,47,49,53,54	146582	25	15461	144044	110991	31	45	4.59	37.24	98.43	327.99	6	224668	10.5	3	0	1
422	1,3,7,11,17,18,20,23,27,28,31,33,37,40,43,50,54	145703	23	14829	143165	110112	31	46	4.23	39.15	99.51	321.39	5	221894	10.5	3	0	1
423	1,3,7,11,17,18,20,23,27,28,31,33,37,42,46,48,51	156465	21	54034	154502	91701	31	50	4.10	36.43	95.05	365.78	7	274696	10.5	3	0	1
424	1,3,7,11,17,18,20,23,27,28,31,33,37,42,46,48,52,53,54	153591	21	42454	151628	98935	29	49	4.23	36.83	95.05	357.08	6	243697	10.5	3	0	1
425	1,3,7,11,17,18,20,23,27,28,31,33,37,42,47,50,54	145799	22	14886	143836	110784	31	46	4.23	39.15	100.78	322.00	5	222230	10.5	3	0	1
426	1,3,7,11,17,18,20,23,27,28,31,33,37,42,49,53,54	145415	21	14254	143452	110400	29	45	4.59	37.24	97.62	326.98	6	219951	10.5	3	0	1
427	1,3,7,11,17,18,20,23,27,28,34,35,37,40,41,44,55	150822	20	39990	141900	113501	30	44	4.10	39.30	97.86	335.24	5	255100	10.5	3	0	1
428	1,3,7,11,17,18,20,23,27,28,34,35,37,40,41,45,55	165806	24	67309	149474	106885	35	49	4.51	43.65	117.91	354.50	5	311102	10.5	3	0	1
429	1,3,7,11,17,18,20,23,27,28,34,35,37,40,43,47,46,48,51	157381	24	55440	155256	97109	33	49	4.10	37.42	94.82	366.09	7	276565	10.5	3	0	1
430	1,3,7,11,17,18,20,23,27,28,34,35,37,40,43,47,46,48,52,53,54	154507	24	43860	152382	104343	31	48	4.23	37.82	94.82	357.40	6	245566	10.5	3	0	1
431	1,3,7,11,17,18,20,23,27,28,34,35,37,40,43,47,49,53,54	146331	25	15661	144206	115808	31	44	4.59	38.23	97.39	327.30	6	221821	10.5	3	0	1
432	1,3,7,11,17,18,20,23,27,28,34,35,37,40,43,50,54	145452	23	15029	143327	114929	31	45	4.23	40.14	98.47	320.70	5	219047	10.5	3	0	1
433	1,3,7,11,17,18,20,23,27,28,34,35,37,42,46,48,51	156214	21	54234	154665	96517	31	49	4.10	37.42	94.00	365.09	7	271849	10.5	3	0	1
434	1,3,7,11,17,18,20,23,27,28,34,35,37,42,46,48,52,53,54	153340	21	42653	151790	103752	29	48	4.23	37.82	94.00	356.39	6	240850	10.5	3	0	1
435	1,3,7,11,17,18,20,23,27,28,34,35,37,42,47,50,54	145549	22	15085	143999	115601	31	45	4.23	40.14	99.74	321.31	5	219383	10.5	3	0	1
436	1,3,7,11,17,18,20,23,27,28,34,35,37,42,49,53,54	145165	21	14454	143615	115217	29	44	4.59	38.23	96.58	326.30	6	217105	10.5	3	0	1
437	1,3,7,11,17,18,20,23,27,28,34,36,39,41,40,42,46,48,51	167961	24	90894	156565	88200	31	52	4.20	37.32	142.84	335.99	7	338512	10.5	3	0	1
438	1,3,7,11,17,18,20,23,27,28,34,36,39,41,40,42,46,48,52,53,54	165087	24	79313	153690	95434	29	51	4.33	37.72	142.84	327.30	6	307513	10.5	3	0	1
439	1,3,7,11,17,18,20,23,27,28,34,36,39,41,40,42,47,50,54	157295	25	51745	145899	107283	31	48	4.33	40.04	148.58	292.22	5	286046	10.5	3	0	1
440	1,3,7,11,17,18,20,23,27,28,34,36,39,41,40,42,49,53,54	156911	24	51114	145515	106899	29	47	4.69	38.13	145.42	297.20	6	283767	10.5	3	0	1
441	1,3,7,11,17,18,20,23,27,28,34,36,39,41,43,47,46,48,51	167977	25	90950	157156	88791	31	52	4.20	37.32	143.66	336.14	7	338768	10.5	3	0	1
442	1,3,7,11,17,18,20,23,27,28,34,36,39,41,43,47,46,48,52,53,54	165103	25	79370	154282	96025	29	51	4.33	37.72	143.66	327.45	6	307769	10.5	3	0	1
443	1,3,7,11,17,18,20,23,27,28,34,36,39,41,43,47,49,53,54	156928	26	51170	146106	107490	29	47	4.69	38.13	146.23	297.35	6	284023	10.5	3	0	1
444	1,3,7,11,17,18,20,23,27,28,34,36,39,41,43,50,54	156048	24	50539	145227	106611	29	48	4.33	40.04	147.31	290.75	5	281249	10.5	3	0	1
445	1,3,7,11,17,18,20,23,27,28,34,36,39,44,55	147824	19	61906	143800	105184	28	43	4.20	39.20	146.70	286.60	5	277224	10.5	3	0	1
446	1,3,7,11,17,18,20,23,27,28,34,36,39,45,55	162808	23	89225	151374	98567	33	48	4.61	43.55	166.75	305.86	5	333227	10.5	3	0	1
447	1,3,7,11,17,18,20,23,27,28,34,38,40,42,46,48,51	156562	21	54196	154437	106176	32	49	4.36	38.48	94.30	364.01	7	272352	10.5	3	0	6
448	1,3,7,11,17,18,20,23,27,28,34,38,40,42,46,48,52,53,54	153688	21	42616	151563	113410	30	48	4.48	38.88	94.30	355.31	6	241353	10.5	3	0	6
449	1,3,7,11,17,18,20,23,27,28,34,38,40,42,47,50,54	145897	22	15048	143772	125259	32	45	4.48	41.20	100.03	320.23	5	219886	10.5	3	0	6
450	1,3,7,11,17,18,20,23,27,28,34,38,40,42,49,53,54	145513	21	14416	143388	124875	30	44	4.85	39.29	96.87	325.21	6	217608	10.5	3	0	6
451	1,3,7,11,17,18,20,23,27,28,34,38,41,44,55	150019	18	38802	141673	123160	29	44	4.36	40.36	98.15	333.15	5	251143	10.5	3	0	6
452	1,3,7,11,17,18,20,23,27,28,34,38,41,45,55	165003	22	66121	149246	116544	34	49	4.76	44.71	118.21	352.41	5	307145	10.5	3	0	6
453	1,3,7,11,17,18,20,23,27,28,34,38,43,47,46,48,51	156578	20	54252	155029	106767	32	49	4.36	38.48	95.11	364.15	7	272608	10.5	3	0	6
454	1,3,7,11,17,18,20,23,27,28,34,38,43,47,46,48,52,53,54	153704	20	42672	152154	114001	30	48	4.48	38.88	95.11	355.46	6	241609	10.5	3	0	6
455	1,3,7,11,17,18,20,23,27,28,34,38,43,47,49,53,54	145529	21	14473	143979	125466	30	44	4.85	39.29	97.68	325.36	6	217863	10.5	3	0	6
456	1,3,7,11,17,18,20,23,27,28,34,38,43,50,54	144649	19	13841	143100	124587	30	45	4.48	41.20	98.76	318.77	5	215089	10.5	3	0	6
457	1,3,7,11,17,19,22,24,29,36,35,37,40,41,44,55	164600	23	83584	138058	98741	32	49	3.36	38.58	94.84	355.13	5	377892	42	3	0	1
458	1,3,7,11,17,19,22,24,29,36,35,37,40,41,45,55	179584	27	110904	145631	92124	37	54	3.77	42.93	114.90	374.39	5	433894	42	3	0	1
459	1,3,7,11,17,19,22,24,29,36,35,37,40,43,47,46,48,51	171159	27	99035	151414	82348	35	54	3.36	36.70	91.80	385.97	7	399357	42	3	0	1

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
460	1,3,7,11,17,19,22,24,29,36,35,37,40,43,47,46,48,52,53,54	168285	27	87455	148539	89582	33	53	3.49	37.10	91.80	377.28	6	368358	42	3	0	1
461	1,3,7,11,17,19,22,24,29,36,35,37,40,43,47,49,53,54	160109	28	59255	140364	101047	33	49	3.85	37.51	94.37	347.18	6	344613	42	3	0	1
462	1,3,7,11,17,19,22,24,29,36,35,37,40,43,50,54	159230	26	58624	139485	100168	33	50	3.49	39.42	95.45	340.59	5	341839	42	3	0	1
463	1,3,7,11,17,19,22,24,29,36,35,37,42,46,48,51	169992	24	97828	150822	81757	33	54	3.36	36.70	90.99	384.97	7	394641	42	3	0	1
464	1,3,7,11,17,19,22,24,29,36,35,37,42,46,48,52,53,54	167118	24	86248	147948	88991	31	53	3.49	37.10	90.99	376.28	6	363642	42	3	0	1
465	1,3,7,11,17,19,22,24,29,36,35,37,42,47,50,54	159327	25	58680	140157	100840	33	50	3.49	39.42	96.72	341.20	5	342175	42	3	0	1
466	1,3,7,11,17,19,22,24,29,36,35,37,42,49,53,54	158943	24	58049	139773	100456	31	49	3.85	37.51	93.56	346.18	6	339896	42	3	0	1
467	1,3,7,11,17,19,22,24,29,36,38,40,42,46,48,51	170340	25	97790	150595	91415	34	54	3.62	37.76	91.28	383.86	7	395144	42	3	0	6
468	1,3,7,11,17,19,22,24,29,36,38,40,42,46,48,52,53,54	167466	25	86210	147721	98649	32	53	3.75	38.16	91.28	375.17	6	364145	42	3	0	6
469	1,3,7,11,17,19,22,24,29,36,38,40,42,47,50,54	159674	26	58642	139929	110498	34	50	3.75	40.48	97.01	340.09	5	342678	42	3	0	6
470	1,3,7,11,17,19,22,24,29,36,38,40,42,49,53,54	159290	25	58011	139545	110114	32	49	4.11	38.57	93.85	345.07	6	340399	42	3	0	6
471	1,3,7,11,17,19,22,24,29,36,38,41,44,55	163797	22	82396	137830	108399	31	49	3.62	39.64	95.13	353.01	5	373934	42	3	0	6
472	1,3,7,11,17,19,22,24,29,36,38,41,45,55	178781	26	109716	145404	101783	36	54	4.03	43.99	115.19	372.27	5	429937	42	3	0	6
473	1,3,7,11,17,19,22,24,29,36,38,43,47,46,48,51	170356	24	97847	151186	92006	34	54	3.62	37.76	92.09	384.01	7	395400	42	3	0	6
474	1,3,7,11,17,19,22,24,29,36,38,43,47,46,48,52,53,54	167482	24	86267	148312	99241	32	53	3.75	38.16	92.09	375.32	6	364401	42	3	0	6
475	1,3,7,11,17,19,22,24,29,36,38,43,47,49,53,54	159307	25	58067	140137	110706	32	49	4.11	38.57	94.66	345.22	6	340655	42	3	0	6
476	1,3,7,11,17,19,22,24,29,36,38,43,50,54	158427	23	57436	139257	109826	32	50	3.75	40.48	95.74	338.62	5	337881	42	3	0	6
477	1,3,7,11,17,19,22,24,29,39,41,40,42,46,48,51	172111	24	124860	148043	73439	31	57	3.46	36.60	123.98	349.28	7	425748	42	3	0	1
478	1,3,7,11,17,19,22,24,29,39,41,40,42,46,48,52,53,54	169236	24	113280	145169	80673	29	56	3.59	37.00	123.98	340.59	6	394749	42	3	0	1
479	1,3,7,11,17,19,22,24,29,39,41,40,42,47,50,54	161445	25	85712	137378	92522	31	53	3.59	39.32	129.71	305.51	5	373283	42	3	0	1
480	1,3,7,11,17,19,22,24,29,39,41,40,42,49,53,54	161061	24	85080	136994	92138	29	52	3.96	37.41	126.55	310.49	6	371004	42	3	0	1
481	1,3,7,11,17,19,22,24,29,39,41,43,47,46,48,51	172127	25	124916	148635	74030	31	57	3.46	36.60	124.79	349.42	7	426004	42	3	0	1
482	1,3,7,11,17,19,22,24,29,39,41,43,47,46,48,52,53,54	169253	25	113336	145760	81264	29	56	3.59	37.00	124.79	340.73	6	395005	42	3	0	1
483	1,3,7,11,17,19,22,24,29,39,41,43,47,49,53,54	161077	26	85137	137585	92730	29	52	3.96	37.41	127.36	310.63	6	371260	42	3	0	1
484	1,3,7,11,17,19,22,24,29,39,41,43,50,54	160198	24	84505	136706	91850	29	53	3.59	39.32	128.44	304.04	5	368486	42	3	0	1
485	1,3,7,11,17,19,22,24,29,39,44,55	151974	19	95872	135279	90423	28	48	3.46	38.48	127.83	299.89	5	364461	42	3	0	1
486	1,3,7,11,17,19,22,24,29,39,45,55	166958	23	123192	142852	83807	33	53	3.87	42.83	147.89	319.15	5	420463	42	3	0	1
487	1,3,7,11,17,19,22,25,29,36,35,37,40,41,44,55	162707	22	81692	134837	103221	32	50	3.38	37.14	96.57	345.17	5	374164	42.5	3	0	1
488	1,3,7,11,17,19,22,25,29,36,35,37,40,41,45,55	177691	26	109012	142411	96604	37	55	3.78	41.49	116.62	364.42	5	430166	42.5	3	0	1
489	1,3,7,11,17,19,22,25,29,36,35,37,40,43,47,46,48,51	169267	26	97143	148193	86828	35	55	3.38	35.26	93.52	376.01	7	395629	42.5	3	0	1
490	1,3,7,11,17,19,22,25,29,36,35,37,40,43,47,46,48,52,53,54	166392	26	85562	145319	94062	33	54	3.50	35.66	93.52	367.32	6	364630	42.5	3	0	1
491	1,3,7,11,17,19,22,25,29,36,35,37,40,43,47,49,53,54	158217	27	57363	137144	105527	33	50	3.87	36.07	96.10	337.22	6	340885	42.5	3	0	1
492	1,3,7,11,17,19,22,25,29,36,35,37,40,43,50,54	157338	25	56731	136264	104648	33	51	3.50	37.98	97.18	330.62	5	338111	42.5	3	0	1
493	1,3,7,11,17,19,22,25,29,36,35,37,42,46,48,51	168100	23	95936	147602	86236	33	55	3.38	35.26	92.71	375.01	7	390913	42.5	3	0	1
494	1,3,7,11,17,19,22,25,29,36,35,37,42,46,48,52,53,54	165226	23	84356	144728	93471	31	54	3.50	35.66	92.71	366.32	6	359914	42.5	3	0	1
495	1,3,7,11,17,19,22,25,29,36,35,37,42,47,50,54	157434	24	56788	136936	105320	33	51	3.50	37.98	98.44	331.24	5	338447	42.5	3	0	1
496	1,3,7,11,17,19,22,25,29,36,35,37,42,49,53,54	157050	23	56156	136552	104936	31	50	3.87	36.07	95.28	336.22	6	336169	42.5	3	0	1
497	1,3,7,11,17,19,22,25,29,36,38,40,42,46,48,51	168448	24	95898	147374	95895	34	55	3.64	36.32	93.00	373.90	7	391416	42.5	3	0	6
498	1,3,7,11,17,19,22,25,29,36,38,40,42,46,48,52,53,54	165573	24	84318	144500	103129	32	54	3.76	36.72	93.00	365.21	6	360417	42.5	3	0	6
499	1,3,7,11,17,19,22,25,29,36,38,40,42,47,50,54	157782	25	56750	136709	114978	34	51	3.76	39.04	98.73	330.13	5	338950	42.5	3	0	6
500	1,3,7,11,17,19,22,25,29,36,38,40,42,49,53,54	157398	24	56118	136325	114594	32	50	4.13	37.13	95.57	335.11	6	336672	42.5	3	0	6
501	1,3,7,11,17,19,22,25,29,36,38,41,44,55	161905	21	80504	134610	112879	31	50	3.64	38.20	96.86	343.05	5	370207	42.5	3	0	6
502	1,3,7,11,17,19,22,25,29,36,38,41,45,55	176889	25	107824	142183	106263	36	55	4.04	42.55	116.91	362.30	5	426209	42.5	3	0	6
503	1,3,7,11,17,19,22,25,29,36,38,43,47,46,48,51	168464	23	95955	147966	96486	34	55	3.64	36.32	93.81	374.05	7	391672	42.5	3	0	6
504	1,3,7,11,17,19,22,25,29,36,38,43,47,46,48,52,53,54	165590	23	84374	145091	103720	32	54	3.76	36.72	93.81	365.35	6	360673	42.5	3	0	6
505	1,3,7,11,17,19,22,25,29,36,38,43,47,49,53,54	157414	24	56175	136916	115185	32	50	4.13	37.13	96.39	335.25	6	336927	42.5	3	0	6
506	1,3,7,11,17,19,22,25,29,36,38,43,50,54	156535	22	55543	136037	114306	32	51	3.76	39.04	97.47	328.66	5	334153	42.5	3	0	6
507	1,3,7,11,17,19,22,25,29,39,41,40,42,46,48,51	170218	23	122968	144823	77919	31	58	3.48	35.16	125.70	339.31	7	422020	42.5	3	0	1
508	1,3,7,11,17,19,22,25,29,39,41,40,42,46,48,52,53,54	167344	23	111388	141949	85153	29	57	3.60	35.56	125.70	330.62	6	391021	42.5	3	0	1
509	1,3,7,11,17,19,22,25,29,39,41,40,42,47,50,54	159553	24	83820	134157	97002	31	54	3.60	37.88	131.43	295.54	5	369555	42.5	3	0	1
510	1,3,7,11,17,19,22,25,29,39,41,40,42,49,53,54	159169	23	83188	133773	96618	29	53	3.97	35.97	128.27	300.52	6	367276	42.5	3	0	1

Westar Energy- JEC to East Manhattan
345/230 kV Transmission Line Project
Table F-1: Route Data for All Routes

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
511	1,3,7,11,17,19,22,25,29,39,41,43,47,46,48,51	170235	24	123024	145414	78510	31	58	3.48	35.16	126.51	339.46	7	422276	42.5	3	0	1
512	1,3,7,11,17,19,22,25,29,39,41,43,47,46,48,52,53,54	167360	24	111444	142540	85744	29	57	3.60	35.56	126.51	330.77	6	391277	42.5	3	0	1
513	1,3,7,11,17,19,22,25,29,39,41,43,47,49,53,54	159185	25	83244	134365	97209	29	53	3.97	35.97	129.09	300.67	6	367532	42.5	3	0	1
514	1,3,7,11,17,19,22,25,29,39,41,43,50,54	158306	23	82613	133485	96330	29	54	3.60	37.88	130.17	294.07	5	364758	42.5	3	0	1
515	1,3,7,11,17,19,22,25,29,39,44,55	150082	18	93980	132058	94903	28	49	3.48	37.04	129.56	289.93	5	360733	42.5	3	0	1
516	1,3,7,11,17,19,22,25,29,39,45,55	165066	22	121299	139632	88286	33	54	3.89	41.39	149.61	309.18	5	416735	42.5	3	0	1
517	1,3,7,11,17,21,27,26,30,32,46,47,50,54	167451	27	75767	139726	107619	37	57	3.32	43.97	93.66	377.72	5	376632	23	3	1	5
518	1,3,7,11,17,21,27,26,30,32,46,49,53,54	167067	26	75136	139342	107235	35	56	3.69	42.06	90.50	382.12	6	374353	23	3	1	5
519	1,3,7,11,17,21,27,26,30,32,48,51	162659	24	99458	134935	80932	37	59	3.20	41.25	87.93	368.28	5	406836	23	3	1	5
520	1,3,7,11,17,21,27,26,30,32,48,52,53,54	159785	24	87878	132060	88166	35	58	3.32	41.65	87.93	359.59	4	375837	23	3	1	5
521	1,3,7,11,17,21,27,26,31,34,35,37,40,41,44,55	151383	22	46729	139860	111195	32	46	3.61	38.70	78.36	355.84	5	278658	12	3	1	1
522	1,3,7,11,17,21,27,26,31,34,35,37,40,41,45,55	166367	26	74049	147434	104579	37	51	4.02	43.05	98.41	375.09	5	334660	12	3	1	1
523	1,3,7,11,17,21,27,26,31,34,35,37,40,43,47,46,48,51	157942	26	62180	153216	94802	35	51	3.61	36.82	75.32	386.68	7	300123	12	3	1	1
524	1,3,7,11,17,21,27,26,31,34,35,37,40,43,47,46,48,52,53,54	155068	26	50599	150342	102036	33	50	3.74	37.22	75.32	377.99	6	269124	12	3	1	1
525	1,3,7,11,17,21,27,26,31,34,35,37,40,43,47,49,53,54	146892	27	22400	142166	113502	33	46	4.11	37.63	77.89	347.89	6	245379	12	3	1	1
526	1,3,7,11,17,21,27,26,31,34,35,37,40,43,50,54	146013	25	21768	141287	112622	33	47	3.74	39.54	78.97	341.30	5	242605	12	3	1	1
527	1,3,7,11,17,21,27,26,31,34,35,37,42,46,48,51	156775	23	60973	152625	94211	33	51	3.61	36.82	74.50	385.68	7	295407	12	3	1	1
528	1,3,7,11,17,21,27,26,31,34,35,37,42,46,48,52,53,54	153901	23	49393	149750	101445	31	50	3.74	37.22	74.50	376.99	6	264407	12	3	1	1
529	1,3,7,11,17,21,27,26,31,34,35,37,42,47,50,54	146110	24	21825	141959	113294	33	47	3.74	39.54	80.24	341.91	5	242941	12	3	1	1
530	1,3,7,11,17,21,27,26,31,34,35,37,42,49,53,54	145726	23	21193	141575	112910	31	46	4.11	37.63	77.08	346.89	6	240662	12	3	1	1
531	1,3,7,11,17,21,27,26,31,34,36,39,41,40,42,46,48,51	168522	26	97633	154524	85893	33	54	3.72	36.72	123.34	356.59	7	362069	12	3	1	1
532	1,3,7,11,17,21,27,26,31,34,36,39,41,40,42,46,48,52,53,54	165648	26	86053	151650	93127	31	53	3.84	37.12	123.34	347.90	6	331070	12	3	1	1
533	1,3,7,11,17,21,27,26,31,34,36,39,41,40,42,47,50,54	157856	27	58485	143859	104977	33	50	3.84	39.44	129.08	312.82	5	309604	12	3	1	1
534	1,3,7,11,17,21,27,26,31,34,36,39,41,40,42,49,53,54	157472	26	57853	143475	104593	31	49	4.21	37.53	125.92	317.80	6	307325	12	3	1	1
535	1,3,7,11,17,21,27,26,31,34,36,39,41,43,47,46,48,51	168538	27	97689	155116	86485	33	54	3.72	36.72	124.16	356.73	7	362325	12	3	1	1
536	1,3,7,11,17,21,27,26,31,34,36,39,41,43,47,46,48,52,53,54	165664	27	86109	152241	93719	31	53	3.84	37.12	124.16	348.04	6	331326	12	3	1	1
537	1,3,7,11,17,21,27,26,31,34,36,39,41,43,47,49,53,54	157489	28	57910	144066	105184	31	49	4.21	37.53	126.73	317.94	6	307581	12	3	1	1
538	1,3,7,11,17,21,27,26,31,34,36,39,41,43,50,54	156609	26	57278	143187	104305	31	50	3.84	39.44	127.81	311.35	5	304807	12	3	1	1
539	1,3,7,11,17,21,27,26,31,34,36,39,44,55	148385	21	68645	141760	102877	30	45	3.72	38.60	127.20	307.20	5	300782	12	3	1	1
540	1,3,7,11,17,21,27,26,31,34,36,39,45,55	163369	25	95964	149333	96261	35	50	4.12	42.95	147.25	326.46	5	356784	12	3	1	1
541	1,3,7,11,17,21,27,26,31,34,38,40,42,46,48,51	157123	23	60935	152397	103870	34	51	3.87	37.88	74.80	384.60	7	295910	12	3	1	6
542	1,3,7,11,17,21,27,26,31,34,38,40,42,46,48,52,53,54	154249	23	49355	149523	111104	32	50	4.00	38.28	74.80	375.91	6	264910	12	3	1	6
543	1,3,7,11,17,21,27,26,31,34,38,40,42,47,50,54	146458	24	21787	141731	122953	34	47	4.00	40.60	80.53	340.83	5	243444	12	3	1	6
544	1,3,7,11,17,21,27,26,31,34,38,40,42,49,53,54	146074	23	21155	141347	122569	32	46	4.36	38.69	77.37	345.81	6	241165	12	3	1	6
545	1,3,7,11,17,21,27,26,31,34,38,41,44,55	150580	20	45541	139632	120854	31	46	3.87	39.76	78.65	353.75	5	274700	12	3	1	6
546	1,3,7,11,17,21,27,26,31,34,38,41,45,55	165564	24	72861	147206	114237	36	51	4.28	44.11	98.71	373.00	5	330703	12	3	1	6
547	1,3,7,11,17,21,27,26,31,34,38,43,47,46,48,51	157139	22	60992	152988	104461	34	51	3.87	37.88	75.61	384.74	7	296165	12	3	1	6
548	1,3,7,11,17,21,27,26,31,34,38,43,47,46,48,52,53,54	154265	22	49411	150114	111695	32	50	4.00	38.28	75.61	376.05	6	265166	12	3	1	6
549	1,3,7,11,17,21,27,26,31,34,38,43,47,49,53,54	146090	23	21212	141939	123160	32	46	4.36	38.69	78.18	345.95	6	241421	12	3	1	6
550	1,3,7,11,17,21,27,26,31,34,38,43,50,54	145210	21	20580	141060	122281	32	47	4.00	40.60	79.26	339.36	5	238647	12	3	1	6
551	1,3,7,11,17,21,27,26,33,37,40,41,44,55	150807	18	45703	139697	106378	32	47	3.61	37.71	78.79	354.41	5	277372	12	3	1	1
552	1,3,7,11,17,21,27,26,33,37,40,41,45,55	165791	22	73022	147271	99762	37	52	4.02	42.06	98.84	373.66	5	333374	12	3	1	1
553	1,3,7,11,17,21,27,26,33,37,40,43,47,46,48,51	157366	22	61153	153053	89986	35	52	3.61	35.83	75.74	385.25	7	298837	12	3	1	1
554	1,3,7,11,17,21,27,26,33,37,40,43,47,46,48,52,53,54	154492	22	49573	150179	97220	33	51	3.74	36.23	75.74	376.56	6	267838	12	3	1	1
555	1,3,7,11,17,21,27,26,33,37,40,43,47,49,53,54	146316	23	21374	142004	108685	33	47	4.11	36.64	78.31	346.46	6	244092	12	3	1	1
556	1,3,7,11,17,21,27,26,33,37,40,43,50,54	145437	21	20742	141124	107806	33	48	3.74	38.55	79.40	339.87	5	241318	12	3	1	1
557	1,3,7,11,17,21,27,26,33,37,42,46,48,51	156199	19	59947	152462	89394	33	52	3.61	35.83	74.93	384.25	7	294120	12	3	1	1
558	1,3,7,11,17,21,27,26,33,37,42,46,48,52,53,54	153325	19	48366	149588	96628	31	51	3.74	36.23	74.93	375.56	6	263121	12	3	1	1
559	1,3,7,11,17,21,27,26,33,37,42,47,50,54	145534	20	20799	141796	108478	33	48	3.74	38.55	80.66	340.48	5	241655	12	3	1	1
560	1,3,7,11,17,21,27,26,33,37,42,49,53,54	145150	19	20167	141412	108094	31	47	4.11	36.64	77.50	345.46	6	239376	12	3	1	1
561	1,3,7,11,17,21,28,31,30,32,46,47,50,54	166808	25	73494	139926	110385	37	57	3.32	42.81	99.71	370.74	5	370655	23	3	0	5

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
562	1,3,7,11,17,21,28,31,30,32,46,49,53,54	166424	24	72863	139542	110001	35	56	3.69	40.90	96.55	375.14	6	368377	23	3	0	5
563	1,3,7,11,17,21,28,31,30,32,48,51	162017	22	97185	135135	83698	37	59	3.20	40.09	93.98	361.29	5	400859	23	3	0	5
564	1,3,7,11,17,21,28,31,30,32,48,52,53,54	159142	22	85605	132260	90932	35	58	3.32	40.49	93.98	352.60	4	369860	23	3	0	5
565	1,3,7,11,17,21,28,31,33,37,40,41,44,55	150164	18	43430	139897	109145	32	47	3.61	36.55	84.84	347.37	5	271395	12	3	0	1
566	1,3,7,11,17,21,28,31,33,37,40,41,45,55	165148	22	70749	147471	102528	37	52	4.02	40.90	104.89	366.63	5	327397	12	3	0	1
567	1,3,7,11,17,21,28,31,33,37,40,43,47,46,48,51	156723	22	58880	153253	92752	35	52	3.61	34.66	81.79	378.21	7	292860	12	3	0	1
568	1,3,7,11,17,21,28,31,33,37,40,43,47,46,48,52,53,54	153849	22	47300	150379	99986	33	51	3.74	35.07	81.79	369.52	6	261861	12	3	0	1
569	1,3,7,11,17,21,28,31,33,37,40,43,47,49,53,54	145674	23	19101	142204	111451	33	47	4.11	35.48	84.36	339.42	6	238116	12	3	0	1
570	1,3,7,11,17,21,28,31,33,37,40,43,50,54	144795	21	18469	141325	110572	33	48	3.74	37.39	85.44	332.83	5	235342	12	3	0	1
571	1,3,7,11,17,21,28,31,33,37,42,46,48,51	155557	19	57674	152662	92161	33	52	3.61	34.66	80.98	377.21	7	288144	12	3	0	1
572	1,3,7,11,17,21,28,31,33,37,42,46,48,52,53,54	152683	19	46093	149788	99395	31	51	3.74	35.07	80.98	368.52	6	257145	12	3	0	1
573	1,3,7,11,17,21,28,31,33,37,42,47,50,54	144891	20	18526	141996	111244	33	48	3.74	37.39	86.71	333.44	5	235678	12	3	0	1
574	1,3,7,11,17,21,28,31,33,37,42,49,53,54	144507	19	17894	141612	110860	31	47	4.11	35.48	83.55	338.42	6	233400	12	3	0	1
575	1,3,7,11,17,21,28,34,35,37,40,41,44,55	149914	18	43629	140060	113961	32	46	3.61	37.54	83.79	346.68	5	268548	12	3	0	1
576	1,3,7,11,17,21,28,34,35,37,40,41,45,55	164898	22	70949	147634	107345	37	51	4.02	41.89	103.85	365.94	5	324551	12	3	0	1
577	1,3,7,11,17,21,28,34,35,37,40,43,47,46,48,51	156473	22	59080	153416	97569	35	51	3.61	35.66	80.75	377.52	7	290013	12	3	0	1
578	1,3,7,11,17,21,28,34,35,37,40,43,47,46,48,52,53,54	153599	22	47500	150542	104803	33	50	3.74	36.06	80.75	368.83	6	259014	12	3	0	1
579	1,3,7,11,17,21,28,34,35,37,40,43,47,49,53,54	145423	23	19300	142366	116268	33	46	4.11	36.47	83.32	338.73	6	235269	12	3	0	1
580	1,3,7,11,17,21,28,34,35,37,40,43,50,54	144544	21	18669	141487	115389	33	47	3.74	38.38	84.40	332.14	5	232495	12	3	0	1
581	1,3,7,11,17,21,28,34,35,37,42,46,48,51	155306	19	57873	152825	96977	33	51	3.61	35.66	79.93	376.52	7	285297	12	3	0	1
582	1,3,7,11,17,21,28,34,35,37,42,46,48,52,53,54	152432	19	46293	149950	104211	31	50	3.74	36.06	79.93	367.83	6	254298	12	3	0	1
583	1,3,7,11,17,21,28,34,35,37,42,47,50,54	144641	20	18725	142159	116060	33	47	3.74	38.38	85.67	332.75	5	232831	12	3	0	1
584	1,3,7,11,17,21,28,34,35,37,42,49,53,54	144257	19	18094	141775	115676	31	46	4.11	36.47	82.51	337.73	6	230553	12	3	0	1
585	1,3,7,11,17,21,28,34,36,39,41,40,42,46,48,51	167053	22	94533	154725	88660	33	54	3.72	35.56	128.77	347.43	7	351960	12	3	0	1
586	1,3,7,11,17,21,28,34,36,39,41,40,42,46,48,52,53,54	164179	22	82953	151850	95894	31	53	3.84	35.96	128.77	338.74	6	320961	12	3	0	1
587	1,3,7,11,17,21,28,34,36,39,41,40,42,47,50,54	156387	23	55385	144059	107743	33	50	3.84	38.28	134.51	303.66	5	299494	12	3	0	1
588	1,3,7,11,17,21,28,34,36,39,41,40,42,49,53,54	156003	22	54753	143675	107359	31	49	4.21	36.37	131.35	308.64	6	297216	12	3	0	1
589	1,3,7,11,17,21,28,34,36,39,41,43,47,46,48,51	167069	23	94590	155316	89251	33	54	3.72	35.56	129.59	347.57	7	352216	12	3	0	1
590	1,3,7,11,17,21,28,34,36,39,41,43,47,46,48,52,53,54	164195	23	83009	152442	96485	31	53	3.84	35.96	129.59	338.88	6	321217	12	3	0	1
591	1,3,7,11,17,21,28,34,36,39,41,43,47,49,53,54	156019	24	54810	144266	107950	31	49	4.21	36.37	132.16	308.78	6	297471	12	3	0	1
592	1,3,7,11,17,21,28,34,36,39,41,43,50,54	155140	22	54178	143387	107071	31	50	3.84	38.28	133.24	302.19	5	294697	12	3	0	1
593	1,3,7,11,17,21,28,34,36,39,44,55	146916	17	65545	141960	105644	30	45	3.72	37.44	132.63	298.04	5	290672	12	3	0	1
594	1,3,7,11,17,21,28,34,36,39,45,55	161900	21	92865	149534	99027	35	50	4.12	41.79	152.69	317.30	5	346675	12	3	0	1
595	1,3,7,11,17,21,28,34,38,40,42,46,48,51	155654	19	57835	152597	106636	34	51	3.87	36.72	80.23	375.44	7	285800	12	3	0	6
596	1,3,7,11,17,21,28,34,38,40,42,46,48,52,53,54	152780	19	46255	149723	113870	32	50	4.00	37.12	80.23	366.75	6	254801	12	3	0	6
597	1,3,7,11,17,21,28,34,38,40,42,47,50,54	144988	20	18687	141932	125719	34	47	4.00	39.44	85.96	331.67	5	233334	12	3	0	6
598	1,3,7,11,17,21,28,34,38,40,42,49,53,54	144604	19	18056	141548	125335	32	46	4.36	37.53	82.80	336.65	6	231056	12	3	0	6
599	1,3,7,11,17,21,28,34,38,41,44,55	149111	16	42441	139833	123620	31	46	3.87	38.60	84.08	344.59	5	264591	12	3	0	6
600	1,3,7,11,17,21,28,34,38,41,45,55	164095	20	69761	147406	117003	36	51	4.28	42.95	104.14	363.84	5	320593	12	3	0	6
601	1,3,7,11,17,21,28,34,38,43,47,46,48,51	155670	18	57892	153189	107227	34	51	3.87	36.72	81.04	375.59	7	286056	12	3	0	6
602	1,3,7,11,17,21,28,34,38,43,47,46,48,52,53,54	152796	18	46312	150314	114461	32	50	4.00	37.12	81.04	366.90	6	255057	12	3	0	6
603	1,3,7,11,17,21,28,34,38,43,47,49,53,54	144621	19	18112	142139	125926	32	46	4.36	37.53	83.61	336.80	6	231312	12	3	0	6
604	1,3,7,11,17,21,28,34,38,43,50,54	143741	17	17481	141260	125047	32	47	4.00	39.44	84.69	330.20	5	228538	12	3	0	6
605	1,3,7,9,10,12,14,30,31,34,35,37,40,41,44,55	164627	18	80364	149232	120913	33	50	3.12	35.24	120.27	354.98	5	328641	25.5	3	0	1
606	1,3,7,9,10,12,14,30,31,34,35,37,40,41,45,55	179611	22	107683	156806	114297	38	55	3.53	39.59	140.32	374.23	5	384643	25.5	3	0	1
607	1,3,7,9,10,12,14,30,31,34,35,37,40,43,47,46,48,51	171187	22	95814	162588	104521	36	55	3.12	33.36	117.22	385.82	7	350106	25.5	3	0	1
608	1,3,7,9,10,12,14,30,31,34,35,37,40,43,47,46,48,52,53,54	168312	22	84234	159714	111755	34	54	3.25	33.76	117.22	377.13	6	319107	25.5	3	0	1
609	1,3,7,9,10,12,14,30,31,34,35,37,40,43,47,49,53,54	160137	23	56035	151538	123220	34	50	3.61	34.17	119.79	347.03	6	295362	25.5	3	0	1
610	1,3,7,9,10,12,14,30,31,34,35,37,40,43,50,54	159258	21	55403	150659	122341	34	51	3.25	36.08	120.88	340.44	5	292588	25.5	3	0	1
611	1,3,7,9,10,12,14,30,31,34,35,37,42,46,48,51	170020	19	94607	161997	103929	34	55	3.12	33.36	116.41	384.82	7	345389	25.5	3	0	1
612	1,3,7,9,10,12,14,30,31,34,35,37,42,46,48,52,53,54	167146	19	83027	159122	111163	32	54	3.25	33.76	116.41	376.13	6	314390	25.5	3	0	1

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
613	1,3,7,9,10,12,14,30,31,34,35,37,42,47,50,54	159354	20	55459	151331	123012	34	51	3.25	36.08	122.14	341.05	5	292924	25.5	3	0	1
614	1,3,7,9,10,12,14,30,31,34,35,37,42,49,53,54	158970	19	54828	150947	122628	32	50	3.61	34.17	118.98	346.03	6	290645	25.5	3	0	1
615	1,3,7,9,10,12,14,30,31,34,36,39,41,40,42,46,48,51	181767	22	131267	163897	95612	34	58	3.22	33.26	165.25	355.73	7	412052	25.5	3	0	1
616	1,3,7,9,10,12,14,30,31,34,36,39,41,40,42,46,48,52,53,54	178892	22	119687	161022	102846	32	57	3.35	33.66	165.25	347.04	6	381053	25.5	3	0	1
617	1,3,7,9,10,12,14,30,31,34,36,39,41,40,42,47,50,54	171101	23	92119	153231	114695	34	54	3.35	35.98	170.98	311.96	5	359587	25.5	3	0	1
618	1,3,7,9,10,12,14,30,31,34,36,39,41,40,42,49,53,54	170717	22	91488	152847	114311	32	53	3.71	34.07	167.82	316.94	6	357308	25.5	3	0	1
619	1,3,7,9,10,12,14,30,31,34,36,39,41,43,47,46,48,51	181783	23	131324	164488	96203	34	58	3.22	33.26	166.06	355.87	7	412308	25.5	3	0	1
620	1,3,7,9,10,12,14,30,31,34,36,39,41,43,47,46,48,52,53,54	178908	23	119744	161614	103437	32	57	3.35	33.66	166.06	347.18	6	381309	25.5	3	0	1
621	1,3,7,9,10,12,14,30,31,34,36,39,41,43,47,49,53,54	170733	24	91544	153438	114902	32	53	3.71	34.07	168.63	317.08	6	357564	25.5	3	0	1
622	1,3,7,9,10,12,14,30,31,34,36,39,41,43,50,54	169854	22	90913	152559	114023	32	54	3.35	35.98	169.72	310.49	5	354790	25.5	3	0	1
623	1,3,7,9,10,12,14,30,31,34,36,39,44,55	161630	17	102279	151132	112596	31	49	3.22	35.15	169.11	306.34	5	350765	25.5	3	0	1
624	1,3,7,9,10,12,14,30,31,34,36,39,45,55	176614	21	129599	158706	105979	36	54	3.63	39.49	189.16	325.60	5	406767	25.5	3	0	1
625	1,3,7,9,10,12,14,30,31,34,38,40,42,46,48,51	170368	19	94570	161769	113588	35	55	3.38	34.42	116.70	383.74	7	345892	25.5	3	0	6
626	1,3,7,9,10,12,14,30,31,34,38,40,42,46,48,52,53,54	167493	19	82990	158895	120822	33	54	3.51	34.82	116.70	375.05	6	314893	25.5	3	0	6
627	1,3,7,9,10,12,14,30,31,34,38,40,42,47,50,54	159702	20	55422	151104	132671	35	51	3.51	37.14	122.43	339.97	5	293427	25.5	3	0	6
628	1,3,7,9,10,12,14,30,31,34,38,40,42,49,53,54	159318	19	54790	150720	132287	33	50	3.87	35.23	119.27	344.95	6	291148	25.5	3	0	6
629	1,3,7,9,10,12,14,30,31,34,38,41,44,55	163825	16	79176	149005	130572	32	50	3.38	36.31	120.56	352.89	5	324683	25.5	3	0	6
630	1,3,7,9,10,12,14,30,31,34,38,41,45,55	178809	20	106495	156578	123955	37	55	3.79	40.65	140.61	372.14	5	380685	25.5	3	0	6
631	1,3,7,9,10,12,14,30,31,34,38,43,47,46,48,51	170384	18	94626	162361	114179	35	55	3.38	34.42	117.51	383.89	7	346148	25.5	3	0	6
632	1,3,7,9,10,12,14,30,31,34,38,43,47,46,48,52,53,54	167510	18	83046	159486	121413	33	54	3.51	34.82	117.51	375.19	6	315149	25.5	3	0	6
633	1,3,7,9,10,12,14,30,31,34,38,43,47,49,53,54	159334	19	54846	151311	132878	33	50	3.87	35.23	120.09	345.10	6	291404	25.5	3	0	6
634	1,3,7,9,10,12,14,30,31,34,38,43,50,54	158455	17	54215	150432	131999	33	51	3.51	37.14	121.17	338.50	5	288630	25.5	3	0	6
635	1,3,7,9,10,12,14,30,33,37,40,41,44,55	164051	16	79337	149069	116097	33	51	3.12	34.25	120.69	353.49	5	327355	25.5	3	0	1
636	1,3,7,9,10,12,14,30,33,37,40,41,45,55	179035	20	106657	156643	109480	38	56	3.53	38.60	140.74	372.75	5	383357	25.5	3	0	1
637	1,3,7,9,10,12,14,30,33,37,40,43,47,46,48,51	170611	20	94788	162425	99704	36	56	3.12	32.37	117.65	384.34	7	348820	25.5	3	0	1
638	1,3,7,9,10,12,14,30,33,37,40,43,47,46,48,52,53,54	167736	20	83208	159551	106938	34	55	3.25	32.77	117.65	375.65	6	317821	25.5	3	0	1
639	1,3,7,9,10,12,14,30,33,37,40,43,47,49,53,54	159561	21	55008	151376	118403	34	51	3.61	33.18	120.22	345.55	6	294075	25.5	3	0	1
640	1,3,7,9,10,12,14,30,33,37,40,43,50,54	158682	19	54377	150497	117524	34	52	3.25	35.09	121.30	338.95	5	291301	25.5	3	0	1
641	1,3,7,9,10,12,14,30,33,37,42,46,48,51	169444	17	93581	161834	99113	34	56	3.12	32.37	116.83	383.34	7	344103	25.5	3	0	1
642	1,3,7,9,10,12,14,30,33,37,42,46,48,52,53,54	166570	17	82001	158960	106347	32	55	3.25	32.77	116.83	374.65	6	313104	25.5	3	0	1
643	1,3,7,9,10,12,14,30,33,37,42,47,50,54	158778	18	54433	151168	118196	34	52	3.25	35.09	122.57	339.56	5	291638	25.5	3	0	1
644	1,3,7,9,10,12,14,30,33,37,42,49,53,54	158394	17	53802	150784	117812	32	51	3.61	33.18	119.41	344.55	6	289359	25.5	3	0	1
645	1,3,7,9,10,12,14,32,46,47,50,54	173040	21	101747	149098	117337	36	59	2.83	40.52	135.57	351.90	5	388579	33.5	3	0	5
646	1,3,7,9,10,12,14,32,46,49,53,54	172656	20	101115	148714	116953	34	58	3.19	38.61	132.40	356.29	6	386300	33.5	3	0	5
647	1,3,7,9,10,12,14,32,48,51	168248	18	125438	144307	90650	36	61	2.70	37.80	129.83	342.45	5	418783	33.5	3	0	5
648	1,3,7,9,10,12,14,32,48,52,53,54	165374	18	113857	141432	97884	34	60	2.83	38.20	129.83	333.76	4	387784	33.5	3	0	5
649	1,3,7,9,10,13,17,18,20,23,26,30,32,46,47,50,54	168227	31	69341	139313	106598	35	54	2.93	44.85	105.83	365.30	5	358134	31.5	3	1	5
650	1,3,7,9,10,13,17,18,20,23,26,30,32,46,49,53,54	167843	30	68709	138929	106214	33	53	3.30	42.94	102.67	369.70	6	355855	31.5	3	1	5
651	1,3,7,9,10,13,17,18,20,23,26,30,32,48,51	163435	28	93032	134522	79911	35	56	2.81	42.13	100.10	355.85	5	388338	31.5	3	1	5
652	1,3,7,9,10,13,17,18,20,23,26,30,32,48,52,53,54	160561	28	81452	131647	87145	33	55	2.93	42.53	100.10	347.16	4	357339	31.5	3	1	5
653	1,3,7,9,10,13,17,18,20,23,26,31,34,35,37,40,41,44,55	152159	26	40303	139447	110174	30	43	3.23	39.58	90.53	343.41	5	260160	20.5	3	1	1
654	1,3,7,9,10,13,17,18,20,23,26,31,34,35,37,40,41,45,55	167143	30	67622	147021	103558	35	48	3.63	43.92	110.59	362.67	5	316162	20.5	3	1	1
655	1,3,7,9,10,13,17,18,20,23,26,31,34,35,37,40,43,47,46,48,51	158718	30	55753	152803	93781	33	48	3.23	37.69	87.49	374.26	7	281625	20.5	3	1	1
656	1,3,7,9,10,13,17,18,20,23,26,31,34,35,37,40,43,47,46,48,52,53,54	155844	30	44173	149929	101015	31	47	3.35	38.09	87.49	365.57	6	250626	20.5	3	1	1
657	1,3,7,9,10,13,17,18,20,23,26,31,34,35,37,40,43,47,49,53,54	147668	31	15973	141753	112480	31	43	3.72	38.50	90.06	335.47	6	226881	20.5	3	1	1
658	1,3,7,9,10,13,17,18,20,23,26,31,34,35,37,40,43,50,54	146789	29	15342	140874	111601	31	44	3.35	40.41	91.14	328.87	5	224107	20.5	3	1	1
659	1,3,7,9,10,13,17,18,20,23,26,31,34,35,37,42,46,48,51	157552	27	54546	152212	93190	31	48	3.23	37.69	86.68	373.26	7	276909	20.5	3	1	1
660	1,3,7,9,10,13,17,18,20,23,26,31,34,35,37,42,46,48,52,53,54	154677	27	42966	149337	100424	29	47	3.35	38.09	86.68	364.57	6	245909	20.5	3	1	1
661	1,3,7,9,10,13,17,18,20,23,26,31,34,35,37,42,47,50,54	146886	28	15398	141546	112273	31	44	3.35	40.41	92.41	329.49	5	224443	20.5	3	1	1
662	1,3,7,9,10,13,17,18,20,23,26,31,34,35,37,42,49,53,54	146502	27	14767	141162	111889	29	43	3.72	38.50	89.25	334.47	6	222164	20.5	3	1	1
663	1,3,7,9,10,13,17,18,20,23,26,31,34,36,39,41,40,42,46,48,51	169298	30	91206	154112	84872	31	51	3.33	37.59	135.52	344.17	7	343571	20.5	3	1	1

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
664	1,3,7,9,10,13,17,18,20,23,26,31,34,36,39,41,40,42,46,48,52,53,54	166424	30	79626	151237	92106	29	50	3.45	38.00	135.52	335.48	6	312572	20.5	3	1	1
665	1,3,7,9,10,13,17,18,20,23,26,31,34,36,39,41,40,42,47,50,54	158632	31	52058	143446	103955	31	47	3.45	40.31	141.25	300.39	5	291106	20.5	3	1	1
666	1,3,7,9,10,13,17,18,20,23,26,31,34,36,39,41,40,42,49,53,54	158248	30	51427	143062	103571	29	46	3.82	38.41	138.09	305.38	6	288827	20.5	3	1	1
667	1,3,7,9,10,13,17,18,20,23,26,31,34,36,39,41,43,47,46,48,51	169314	31	91263	154703	85464	31	51	3.33	37.59	136.33	344.31	7	343827	20.5	3	1	1
668	1,3,7,9,10,13,17,18,20,23,26,31,34,36,39,41,43,47,46,48,52,53,54	166440	31	79683	151829	92698	29	50	3.45	38.00	136.33	335.62	6	312828	20.5	3	1	1
669	1,3,7,9,10,13,17,18,20,23,26,31,34,36,39,41,43,47,49,53,54	158265	32	51483	143653	104163	29	46	3.82	38.41	138.90	305.52	6	289083	20.5	3	1	1
670	1,3,7,9,10,13,17,18,20,23,26,31,34,36,39,41,43,50,54	157385	30	50851	142774	103284	29	47	3.45	40.31	139.98	298.92	5	286309	20.5	3	1	1
671	1,3,7,9,10,13,17,18,20,23,26,31,34,36,39,44,55	149161	25	62218	141347	101856	28	42	3.33	39.48	139.37	294.78	5	282284	20.5	3	1	1
672	1,3,7,9,10,13,17,18,20,23,26,31,34,36,39,45,55	164145	29	89538	148921	95240	33	47	3.73	43.83	159.43	314.03	5	338286	20.5	3	1	1
673	1,3,7,9,10,13,17,18,20,23,26,31,34,38,40,42,46,48,51	157899	27	54509	151984	102848	32	48	3.49	38.76	86.97	372.18	7	277412	20.5	3	1	6
674	1,3,7,9,10,13,17,18,20,23,26,31,34,38,40,42,46,48,52,53,54	155025	27	42928	149110	110082	30	47	3.61	39.16	86.97	363.49	6	246412	20.5	3	1	6
675	1,3,7,9,10,13,17,18,20,23,26,31,34,38,40,42,47,50,54	147234	28	15361	141319	121932	32	44	3.61	41.48	92.70	328.41	5	224946	20.5	3	1	6
676	1,3,7,9,10,13,17,18,20,23,26,31,34,38,40,42,49,53,54	146850	27	14729	140935	121548	30	43	3.98	39.57	89.54	333.39	6	222667	20.5	3	1	6
677	1,3,7,9,10,13,17,18,20,23,26,31,34,38,41,44,55	151356	24	39115	139220	119832	29	43	3.49	40.64	90.82	341.32	5	256202	20.5	3	1	6
678	1,3,7,9,10,13,17,18,20,23,26,31,34,38,41,45,55	166340	28	66434	146793	113216	34	48	3.89	44.99	110.88	360.58	5	312205	20.5	3	1	6
679	1,3,7,9,10,13,17,18,20,23,26,31,34,38,43,47,46,48,51	157915	26	54565	152576	103440	32	48	3.49	38.76	87.78	372.32	7	277667	20.5	3	1	6
680	1,3,7,9,10,13,17,18,20,23,26,31,34,38,43,47,46,48,52,53,54	155041	26	42985	149701	110674	30	47	3.61	39.16	87.78	363.63	6	246668	20.5	3	1	6
681	1,3,7,9,10,13,17,18,20,23,26,31,34,38,43,47,49,53,54	146866	27	14785	141526	122139	30	43	3.98	39.57	90.35	333.53	6	222923	20.5	3	1	6
682	1,3,7,9,10,13,17,18,20,23,26,31,34,38,43,50,54	145987	25	14154	140647	121260	30	44	3.61	41.48	91.43	326.94	5	220149	20.5	3	1	6
683	1,3,7,9,10,13,17,18,20,23,26,33,37,40,41,44,55	151583	22	39276	139284	105357	30	44	3.23	38.58	90.96	341.98	5	258874	20.5	3	1	1
684	1,3,7,9,10,13,17,18,20,23,26,33,37,40,41,45,55	166567	26	66596	146858	98741	35	49	3.63	42.93	111.01	361.24	5	314876	20.5	3	1	1
685	1,3,7,9,10,13,17,18,20,23,26,33,37,40,43,47,46,48,51	158142	26	54727	152640	88965	33	49	3.23	36.70	87.91	372.83	7	280339	20.5	3	1	1
686	1,3,7,9,10,13,17,18,20,23,26,33,37,40,43,47,46,48,52,53,54	155268	26	43147	149766	96199	31	48	3.35	37.10	87.91	364.14	6	249340	20.5	3	1	1
687	1,3,7,9,10,13,17,18,20,23,26,33,37,40,43,47,49,53,54	147092	27	14947	141591	107664	31	44	3.72	37.51	90.49	334.04	6	225594	20.5	3	1	1
688	1,3,7,9,10,13,17,18,20,23,26,33,37,40,43,50,54	146213	25	14316	140712	106785	31	45	3.35	39.42	91.57	327.44	5	222820	20.5	3	1	1
689	1,3,7,9,10,13,17,18,20,23,26,33,37,42,46,48,51	156976	23	53520	152049	88373	31	49	3.23	36.70	87.10	371.83	7	275622	20.5	3	1	1
690	1,3,7,9,10,13,17,18,20,23,26,33,37,42,46,48,52,53,54	154101	23	41940	149175	95607	29	48	3.35	37.10	87.10	363.14	6	244623	20.5	3	1	1
691	1,3,7,9,10,13,17,18,20,23,26,33,37,42,47,50,54	146310	24	14372	141383	107456	31	45	3.35	39.42	92.83	328.06	5	223157	20.5	3	1	1
692	1,3,7,9,10,13,17,18,20,23,26,33,37,42,49,53,54	145926	23	13740	140999	107072	29	44	3.72	37.51	89.67	333.04	6	220878	20.5	3	1	1
693	1,3,7,9,10,13,17,18,20,23,27,28,31,30,32,46,47,50,54	168538	31	68021	139513	109364	35	54	2.93	43.69	114.98	358.32	5	355971	31.5	3	0	5
694	1,3,7,9,10,13,17,18,20,23,27,28,31,30,32,46,49,53,54	168154	30	67390	139130	108980	33	53	3.30	41.78	111.81	362.72	6	353692	31.5	3	0	5
695	1,3,7,9,10,13,17,18,20,23,27,28,31,30,32,48,51	163746	28	91712	134722	82677	35	56	2.81	40.97	109.24	348.87	5	386175	31.5	3	0	5
696	1,3,7,9,10,13,17,18,20,23,27,28,31,30,32,48,52,53,54	160872	28	80132	131848	89911	33	55	2.93	41.37	109.24	340.18	4	355176	31.5	3	0	5
697	1,3,7,9,10,13,17,18,20,23,27,28,31,33,37,40,41,44,55	151894	24	37957	139485	108124	30	44	3.23	37.42	100.10	334.95	5	256711	20.5	3	0	1
698	1,3,7,9,10,13,17,18,20,23,27,28,31,33,37,40,41,45,55	166878	28	65276	147058	101507	35	49	3.63	41.77	120.15	354.20	5	312713	20.5	3	0	1
699	1,3,7,9,10,13,17,18,20,23,27,28,31,33,37,40,43,47,46,48,51	158453	28	53407	152841	91731	33	49	3.23	35.54	97.06	365.79	7	278176	20.5	3	0	1
700	1,3,7,9,10,13,17,18,20,23,27,28,31,33,37,40,43,47,46,48,52,53,54	155579	28	41827	149966	98965	31	48	3.35	35.94	97.06	357.10	6	247177	20.5	3	0	1
701	1,3,7,9,10,13,17,18,20,23,27,28,31,33,37,40,43,47,49,53,54	147403	29	13628	141791	110430	31	44	3.72	36.35	99.63	327.00	6	223432	20.5	3	0	1
702	1,3,7,9,10,13,17,18,20,23,27,28,31,33,37,40,43,50,54	146524	27	12996	140912	109551	31	45	3.35	38.26	100.71	320.40	5	220658	20.5	3	0	1
703	1,3,7,9,10,13,17,18,20,23,27,28,31,33,37,42,46,48,51	157287	25	52201	152249	91139	31	49	3.23	35.54	96.24	364.79	7	273460	20.5	3	0	1
704	1,3,7,9,10,13,17,18,20,23,27,28,31,33,37,42,46,48,52,53,54	154412	25	40621	149375	98374	29	48	3.35	35.94	96.24	356.10	6	242461	20.5	3	0	1
705	1,3,7,9,10,13,17,18,20,23,27,28,31,33,37,42,47,50,54	146621	26	13053	141584	110223	31	45	3.35	38.26	101.98	321.02	5	220994	20.5	3	0	1
706	1,3,7,9,10,13,17,18,20,23,27,28,31,33,37,42,49,53,54	146237	25	12421	141200	109839	29	44	3.72	36.35	98.82	326.00	6	218715	20.5	3	0	1
707	1,3,7,9,10,13,17,18,20,23,27,28,34,35,37,40,41,44,55	151643	24	38157	139647	112940	30	43	3.23	38.41	99.06	334.26	5	253864	20.5	3	0	1
708	1,3,7,9,10,13,17,18,20,23,27,28,34,35,37,40,41,45,55	166627	28	65476	147221	106324	35	48	3.63	42.76	119.11	353.51	5	309867	20.5	3	0	1
709	1,3,7,9,10,13,17,18,20,23,27,28,34,35,37,40,43,47,46,48,51	158202	28	53607	153003	96547	33	48	3.23	36.53	96.01	365.10	7	275329	20.5	3	0	1
710	1,3,7,9,10,13,17,18,20,23,27,28,34,35,37,40,43,47,46,48,52,53,54	155328	28	42027	150129	103782	31	47	3.35	36.93	96.01	356.41	6	244330	20.5	3	0	1
711	1,3,7,9,10,13,17,18,20,23,27,28,34,35,37,40,43,47,49,53,54	147153	29	13827	141954	115247	31	43	3.72	37.34	98.59	326.31	6	220585	20.5	3	0	1
712	1,3,7,9,10,13,17,18,20,23,27,28,34,35,37,40,43,50,54	146274	27	13196	141074	114367	31	44	3.35	39.25	99.67	319.72	5	217811	20.5	3	0	1
713	1,3,7,9,10,13,17,18,20,23,27,28,34,35,37,42,46,48,51	157036	25	52400	152412	95956	31	48	3.23	36.53	95.20	364.10	7	270613	20.5	3	0	1
714	1,3,7,9,10,13,17,18,20,23,27,28,34,35,37,42,46,48,52,53,54	154162	25	40820	149538	103190	29	47	3.35	36.93	95.20	355.41	6	239614	20.5	3	0	1

Table F-1: Route Data for All Routes

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
715	1,3,7,9,10,13,17,18,20,23,27,28,34,35,37,42,47,50,54	146370	26	13252	141746	115039	31	44	3.35	39.25	100.93	320.33	5	218147	20.5	3	0	1
716	1,3,7,9,10,13,17,18,20,23,27,28,34,35,37,42,49,53,54	145986	25	12621	141362	114655	29	43	3.72	37.34	97.77	325.31	6	215869	20.5	3	0	1
717	1,3,7,9,10,13,17,18,20,23,27,28,34,36,39,41,40,42,46,48,51	168782	28	89060	154312	87638	31	51	3.33	36.43	144.04	335.01	7	337276	20.5	3	0	1
718	1,3,7,9,10,13,17,18,20,23,27,28,34,36,39,41,40,42,46,48,52,53,54	165908	28	77480	151437	94873	29	50	3.45	36.83	144.04	326.32	6	306277	20.5	3	0	1
719	1,3,7,9,10,13,17,18,20,23,27,28,34,36,39,41,40,42,47,50,54	158117	29	49912	143646	106722	31	47	3.45	39.15	149.77	291.24	5	284810	20.5	3	0	1
720	1,3,7,9,10,13,17,18,20,23,27,28,34,36,39,41,40,42,49,53,54	157733	28	49281	143262	106338	29	46	3.82	37.24	146.61	296.22	6	282532	20.5	3	0	1
721	1,3,7,9,10,13,17,18,20,23,27,28,34,36,39,41,43,47,46,48,51	168799	29	89117	154903	88230	31	51	3.33	36.43	144.85	335.15	7	337532	20.5	3	0	1
722	1,3,7,9,10,13,17,18,20,23,27,28,34,36,39,41,43,47,46,48,52,53,54	165924	29	77536	152029	95464	29	50	3.45	36.83	144.85	326.46	6	306533	20.5	3	0	1
723	1,3,7,9,10,13,17,18,20,23,27,28,34,36,39,41,43,47,49,53,54	157749	30	49337	143854	106929	29	46	3.82	37.24	147.43	296.36	6	282787	20.5	3	0	1
724	1,3,7,9,10,13,17,18,20,23,27,28,34,36,39,41,43,50,54	156870	28	48705	142974	106050	29	47	3.45	39.15	148.51	289.77	5	280013	20.5	3	0	1
725	1,3,7,9,10,13,17,18,20,23,27,28,34,36,39,44,55	148646	23	60072	141547	104623	28	42	3.33	38.32	147.90	285.62	5	275988	20.5	3	0	1
726	1,3,7,9,10,13,17,18,20,23,27,28,34,36,39,45,55	163629	27	87392	149121	98006	33	47	3.73	42.66	167.95	304.88	5	331991	20.5	3	0	1
727	1,3,7,9,10,13,17,18,20,23,27,28,34,38,40,42,46,48,51	157384	25	52363	152185	105615	32	48	3.49	37.59	95.49	363.02	7	271116	20.5	3	0	6
728	1,3,7,9,10,13,17,18,20,23,27,28,34,38,40,42,46,48,52,53,54	154509	25	40782	149310	112849	30	47	3.61	37.99	95.49	354.33	6	240117	20.5	3	0	6
729	1,3,7,9,10,13,17,18,20,23,27,28,34,38,40,42,47,50,54	146718	26	13214	141519	124698	32	44	3.61	40.31	101.23	319.25	5	218650	20.5	3	0	6
730	1,3,7,9,10,13,17,18,20,23,27,28,34,38,40,42,49,53,54	146334	25	12583	141135	124314	30	43	3.98	38.40	98.07	324.23	6	216372	20.5	3	0	6
731	1,3,7,9,10,13,17,18,20,23,27,28,34,38,41,44,55	150841	22	36968	139420	122599	29	43	3.49	39.48	99.35	332.17	5	249907	20.5	3	0	6
732	1,3,7,9,10,13,17,18,20,23,27,28,34,38,41,45,55	165825	26	64288	146994	115982	34	48	3.89	43.82	119.40	351.42	5	305909	20.5	3	0	6
733	1,3,7,9,10,13,17,18,20,23,27,28,34,38,43,47,46,48,51	157400	24	52419	152776	106206	32	48	3.49	37.59	96.31	363.16	7	271372	20.5	3	0	6
734	1,3,7,9,10,13,17,18,20,23,27,28,34,38,43,47,46,48,52,53,54	154525	24	40839	149902	113440	30	47	3.61	37.99	96.31	354.47	6	240373	20.5	3	0	6
735	1,3,7,9,10,13,17,18,20,23,27,28,34,38,43,47,49,53,54	146350	25	12639	141726	124905	30	43	3.98	38.40	98.88	324.37	6	216627	20.5	3	0	6
736	1,3,7,9,10,13,17,18,20,23,27,28,34,38,43,50,54	145471	23	12008	140847	124026	30	44	3.61	40.31	99.96	317.78	5	213853	20.5	3	0	6
737	1,3,7,9,10,13,17,19,22,24,29,36,35,37,40,41,44,55	165421	27	81751	135805	98179	32	48	2.49	37.70	96.04	354.14	5	376656	52	3	0	1
738	1,3,7,9,10,13,17,19,22,24,29,36,35,37,40,41,45,55	180405	31	109071	143379	91563	37	53	2.90	42.04	116.09	373.40	5	432658	52	3	0	1
739	1,3,7,9,10,13,17,19,22,24,29,36,35,37,40,43,47,46,48,51	171980	31	97202	149161	81787	35	53	2.49	35.81	93.00	384.99	7	398121	52	3	0	1
740	1,3,7,9,10,13,17,19,22,24,29,36,35,37,40,43,47,46,48,52,53,54	169106	31	85622	146287	89021	33	52	2.62	36.21	93.00	376.30	6	367122	52	3	0	1
741	1,3,7,9,10,13,17,19,22,24,29,36,35,37,40,43,47,49,53,54	160931	32	57422	138111	100486	33	48	2.98	36.62	95.57	346.20	6	343377	52	3	0	1
742	1,3,7,9,10,13,17,19,22,24,29,36,35,37,40,43,50,54	160051	30	56790	137232	99607	33	49	2.62	38.53	96.65	339.60	5	340603	52	3	0	1
743	1,3,7,9,10,13,17,19,22,24,29,36,35,37,42,46,48,51	170814	28	95995	148570	81195	33	53	2.49	35.81	92.18	383.99	7	393405	52	3	0	1
744	1,3,7,9,10,13,17,19,22,24,29,36,35,37,42,46,48,52,53,54	167939	28	84415	145695	88429	31	52	2.62	36.21	92.18	375.30	6	362406	52	3	0	1
745	1,3,7,9,10,13,17,19,22,24,29,36,35,37,42,47,50,54	160148	29	56847	137904	100279	33	49	2.62	38.53	97.92	340.22	5	340939	52	3	0	1
746	1,3,7,9,10,13,17,19,22,24,29,36,35,37,42,49,53,54	159764	28	56215	137520	99895	31	48	2.98	36.62	94.75	345.20	6	338660	52	3	0	1
747	1,3,7,9,10,13,17,19,22,24,29,36,38,40,42,46,48,51	171162	29	95957	148342	90854	34	53	2.75	36.87	92.47	382.88	7	393908	52	3	0	6
748	1,3,7,9,10,13,17,19,22,24,29,36,38,40,42,46,48,52,53,54	168287	29	84377	145468	98088	32	52	2.87	37.28	92.47	374.19	6	362909	52	3	0	6
749	1,3,7,9,10,13,17,19,22,24,29,36,38,40,42,47,50,54	160496	30	56809	137676	109937	34	49	2.87	39.60	98.21	339.11	5	341442	52	3	0	6
750	1,3,7,9,10,13,17,19,22,24,29,36,38,40,42,49,53,54	160112	29	56177	137293	109553	32	48	3.24	37.69	95.05	344.09	6	339163	52	3	0	6
751	1,3,7,9,10,13,17,19,22,24,29,36,38,41,44,55	164619	26	80563	135577	107838	31	48	2.75	38.76	96.33	352.02	5	372699	52	3	0	6
752	1,3,7,9,10,13,17,19,22,24,29,36,38,41,45,55	179602	30	107883	143151	101221	36	53	3.16	43.11	116.38	371.28	5	428701	52	3	0	6
753	1,3,7,9,10,13,17,19,22,24,29,36,38,43,47,46,48,51	171178	28	96014	148933	91445	34	53	2.75	36.87	93.29	383.02	7	394164	52	3	0	6
754	1,3,7,9,10,13,17,19,22,24,29,36,38,43,47,46,48,52,53,54	168303	28	84433	146059	98679	32	52	2.87	37.28	93.29	374.33	6	363165	52	3	0	6
755	1,3,7,9,10,13,17,19,22,24,29,36,38,43,47,49,53,54	160128	29	56234	137884	110144	32	48	3.24	37.69	95.86	344.23	6	339419	52	3	0	6
756	1,3,7,9,10,13,17,19,22,24,29,36,38,43,50,54	159249	27	55602	137005	109265	32	49	2.87	39.60	96.94	337.64	5	336645	52	3	0	6
757	1,3,7,9,10,13,17,19,22,24,29,39,41,40,42,46,48,51	172932	28	123027	145791	72878	31	56	2.59	35.71	125.17	348.29	7	424512	52	3	0	1
758	1,3,7,9,10,13,17,19,22,24,29,39,41,40,42,46,48,52,53,54	170058	28	111447	142916	80112	29	55	2.72	36.12	125.17	339.60	6	393513	52	3	0	1
759	1,3,7,9,10,13,17,19,22,24,29,39,41,40,42,47,50,54	162267	29	83879	135125	91961	31	52	2.72	38.43	130.91	304.52	5	372047	52	3	0	1
760	1,3,7,9,10,13,17,19,22,24,29,39,41,40,42,49,53,54	161883	28	83247	134741	91577	29	51	3.08	36.53	127.75	309.50	6	369768	52	3	0	1
761	1,3,7,9,10,13,17,19,22,24,29,39,41,43,47,46,48,51	172948	29	123083	146382	73469	31	56	2.59	35.71	125.99	348.43	7	424768	52	3	0	1
762	1,3,7,9,10,13,17,19,22,24,29,39,41,43,47,46,48,52,53,54	170074	29	111503	143508	80703	29	55	2.72	36.12	125.99	339.74	6	393769	52	3	0	1
763	1,3,7,9,10,13,17,19,22,24,29,39,41,43,47,49,53,54	161899	30	83303	135332	92168	29	51	3.08	36.53	128.56	309.64	6	370024	52	3	0	1
764	1,3,7,9,10,13,17,19,22,24,29,39,41,43,50,54	161020	28	82672	134453	91289	29	52	2.72	38.43	129.64	303.05	5	367250	52	3	0	1
765	1,3,7,9,10,13,17,19,22,24,29,39,44,55	152795	23	94039	133026	89862	28	47	2.59	37.60	129.03	298.90	5	363225	52	3	0	1

Table F-1: Route Data for All Routes

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
766	1,3,7,9,10,13,17,19,22,24,29,39,45,55	167779	27	121358	140600	83245	33	52	3.00	41.95	149.08	318.16	5	419227	52	3	0	1
767	1,3,7,9,10,13,17,19,22,25,29,36,35,37,40,41,44,55	163529	26	79859	132584	102659	32	49	2.51	36.25	97.76	344.18	5	372928	52.5	3	0	1
768	1,3,7,9,10,13,17,19,22,25,29,36,35,37,40,41,45,55	178513	30	107178	140158	96043	37	54	2.91	40.60	117.82	363.44	5	428931	52.5	3	0	1
769	1,3,7,9,10,13,17,19,22,25,29,36,35,37,40,43,47,46,48,51	170088	30	95309	145941	86266	35	54	2.51	34.37	94.72	375.02	7	394393	52.5	3	0	1
770	1,3,7,9,10,13,17,19,22,25,29,36,35,37,40,43,47,46,48,52,53,54	167214	30	83729	143066	93501	33	53	2.63	34.77	94.72	366.33	6	363394	52.5	3	0	1
771	1,3,7,9,10,13,17,19,22,25,29,36,35,37,40,43,47,49,53,54	159038	31	55530	134891	104966	33	49	3.00	35.18	97.29	336.23	6	339649	52.5	3	0	1
772	1,3,7,9,10,13,17,19,22,25,29,36,35,37,40,43,50,54	158159	29	54898	134012	104086	33	50	2.63	37.09	98.37	329.64	5	336875	52.5	3	0	1
773	1,3,7,9,10,13,17,19,22,25,29,36,35,37,42,46,48,51	168921	27	94103	145349	85675	33	54	2.51	34.37	93.91	374.02	7	389677	52.5	3	0	1
774	1,3,7,9,10,13,17,19,22,25,29,36,35,37,42,46,48,52,53,54	166047	27	82522	142475	92909	31	53	2.63	34.77	93.91	365.33	6	358678	52.5	3	0	1
775	1,3,7,9,10,13,17,19,22,25,29,36,35,37,42,47,50,54	158256	28	54954	134684	104758	33	50	2.63	37.09	99.64	330.25	5	337211	52.5	3	0	1
776	1,3,7,9,10,13,17,19,22,25,29,36,35,37,42,49,53,54	157872	27	54323	134300	104374	31	49	3.00	35.18	96.48	335.23	6	334933	52.5	3	0	1
777	1,3,7,9,10,13,17,19,22,25,29,36,38,40,42,46,48,51	169269	28	94065	145122	95334	34	54	2.77	35.43	94.20	372.91	7	390180	52.5	3	0	6
778	1,3,7,9,10,13,17,19,22,25,29,36,38,40,42,46,48,52,53,54	166395	28	82485	142247	102568	32	53	2.89	35.84	94.20	364.22	6	359181	52.5	3	0	6
779	1,3,7,9,10,13,17,19,22,25,29,36,38,40,42,47,50,54	158604	29	54917	134456	114417	34	50	2.89	38.15	99.93	329.14	5	337714	52.5	3	0	6
780	1,3,7,9,10,13,17,19,22,25,29,36,38,40,42,49,53,54	158220	28	54285	134072	114033	32	49	3.26	36.24	96.77	334.12	6	335436	52.5	3	0	6
781	1,3,7,9,10,13,17,19,22,25,29,36,38,41,44,55	162726	25	78671	132357	112318	31	49	2.77	37.32	98.06	342.06	5	368971	52.5	3	0	6
782	1,3,7,9,10,13,17,19,22,25,29,36,38,41,45,55	177710	29	105990	139931	105701	36	54	3.17	41.67	118.11	361.32	5	424973	52.5	3	0	6
783	1,3,7,9,10,13,17,19,22,25,29,36,38,43,47,46,48,51	169285	27	94121	145713	95925	34	54	2.77	35.43	95.01	373.06	7	390436	52.5	3	0	6
784	1,3,7,9,10,13,17,19,22,25,29,36,38,43,47,46,48,52,53,54	166411	27	82541	142839	103159	32	53	2.89	35.84	95.01	364.37	6	359437	52.5	3	0	6
785	1,3,7,9,10,13,17,19,22,25,29,36,38,43,47,49,53,54	158236	28	54342	134663	114624	32	49	3.26	36.24	97.58	334.27	6	335691	52.5	3	0	6
786	1,3,7,9,10,13,17,19,22,25,29,36,38,43,50,54	157357	26	53710	133784	113745	32	50	2.89	38.15	98.66	327.67	5	332917	52.5	3	0	6
787	1,3,7,9,10,13,17,19,22,25,29,39,41,40,42,46,48,51	171040	27	121134	142570	77357	31	57	2.61	34.27	126.90	338.33	7	420784	52.5	3	0	1
788	1,3,7,9,10,13,17,19,22,25,29,39,41,40,42,46,48,52,53,54	168166	27	109554	139696	84592	29	56	2.73	34.67	126.90	329.64	6	389785	52.5	3	0	1
789	1,3,7,9,10,13,17,19,22,25,29,39,41,40,42,47,50,54	160374	28	81986	131904	96441	31	53	2.73	36.99	132.63	294.56	5	368319	52.5	3	0	1
790	1,3,7,9,10,13,17,19,22,25,29,39,41,40,42,49,53,54	159990	27	81355	131521	96057	29	52	3.10	35.08	129.47	299.54	6	366040	52.5	3	0	1
791	1,3,7,9,10,13,17,19,22,25,29,39,41,43,47,46,48,51	171056	28	121191	143161	77949	31	57	2.61	34.27	127.71	338.47	7	421040	52.5	3	0	1
792	1,3,7,9,10,13,17,19,22,25,29,39,41,43,47,46,48,52,53,54	168182	28	109611	140287	85183	29	56	2.73	34.67	127.71	329.78	6	390041	52.5	3	0	1
793	1,3,7,9,10,13,17,19,22,25,29,39,41,43,47,49,53,54	160006	29	81411	132112	96648	29	52	3.10	35.08	130.28	299.68	6	366296	52.5	3	0	1
794	1,3,7,9,10,13,17,19,22,25,29,39,41,43,50,54	159127	27	80780	131233	95769	29	53	2.73	36.99	131.36	293.09	5	363522	52.5	3	0	1
795	1,3,7,9,10,13,17,19,22,25,29,39,44,55	150903	22	92146	129805	94342	28	48	2.61	36.16	130.76	288.94	5	359497	52.5	3	0	1
796	1,3,7,9,10,13,17,19,22,25,29,39,45,55	165887	26	119466	137379	87725	33	53	3.01	40.50	150.81	308.20	5	415499	52.5	3	0	1
797	1,3,7,9,10,13,17,21,27,26,30,32,46,47,50,54	168272	31	73934	137473	107057	37	56	2.45	43.09	94.86	376.74	5	375396	33	3	1	5
798	1,3,7,9,10,13,17,21,27,26,30,32,46,49,53,54	167888	30	73302	137089	106673	35	55	2.82	41.18	91.70	381.14	6	373117	33	3	1	5
799	1,3,7,9,10,13,17,21,27,26,30,32,48,51	163481	28	97625	132682	80370	37	58	2.32	40.37	89.12	367.29	5	405600	33	3	1	5
800	1,3,7,9,10,13,17,21,27,26,30,32,48,52,53,54	160606	28	86045	129807	87605	35	57	2.45	40.77	89.12	358.60	4	374601	33	3	1	5
801	1,3,7,9,10,13,17,21,27,26,31,34,35,37,40,41,44,55	152204	26	44896	137607	110634	32	45	2.74	37.81	79.56	354.85	5	277422	22	3	1	1
802	1,3,7,9,10,13,17,21,27,26,31,34,35,37,40,41,45,55	167188	30	72215	145181	104017	37	50	3.15	42.16	99.61	374.11	5	333424	22	3	1	1
803	1,3,7,9,10,13,17,21,27,26,31,34,35,37,40,43,47,46,48,51	158763	30	60346	150963	94241	35	50	2.74	35.93	76.51	385.69	7	298887	22	3	1	1
804	1,3,7,9,10,13,17,21,27,26,31,34,35,37,40,43,47,46,48,52,53,54	155889	30	48766	148089	101475	33	49	2.87	36.33	76.51	377.00	6	267888	22	3	1	1
805	1,3,7,9,10,13,17,21,27,26,31,34,35,37,40,43,47,49,53,54	147714	31	20567	139914	112940	33	45	3.23	36.74	79.09	346.90	6	244143	22	3	1	1
806	1,3,7,9,10,13,17,21,27,26,31,34,35,37,40,43,50,54	146835	29	19935	139034	112061	33	46	2.87	38.65	80.17	340.31	5	241369	22	3	1	1
807	1,3,7,9,10,13,17,21,27,26,31,34,35,37,42,46,48,51	157597	27	59140	150372	93650	33	50	2.74	35.93	75.70	384.69	7	294171	22	3	1	1
808	1,3,7,9,10,13,17,21,27,26,31,34,35,37,42,46,48,52,53,54	154723	27	47559	147497	100884	31	49	2.87	36.33	75.70	376.00	6	263172	22	3	1	1
809	1,3,7,9,10,13,17,21,27,26,31,34,35,37,42,47,50,54	146931	28	19991	139706	112733	33	46	2.87	38.65	81.43	340.92	5	241705	22	3	1	1
810	1,3,7,9,10,13,17,21,27,26,31,34,35,37,42,49,53,54	146547	27	19360	139322	112349	31	45	3.23	36.74	78.27	345.90	6	239426	22	3	1	1
811	1,3,7,9,10,13,17,21,27,26,31,34,36,39,41,40,42,46,48,51	169343	30	95799	152272	85332	33	53	2.84	35.83	124.54	355.60	7	360834	22	3	1	1
812	1,3,7,9,10,13,17,21,27,26,31,34,36,39,41,40,42,46,48,52,53,54	166469	30	84219	149397	92566	31	52	2.97	36.23	124.54	346.91	6	329834	22	3	1	1
813	1,3,7,9,10,13,17,21,27,26,31,34,36,39,41,40,42,47,50,54	158678	31	56651	141606	104415	33	49	2.97	38.55	130.27	311.83	5	308368	22	3	1	1
814	1,3,7,9,10,13,17,21,27,26,31,34,36,39,41,40,42,49,53,54	158294	30	56020	141222	104031	31	48	3.33	36.64	127.11	316.81	6	306089	22	3	1	1
815	1,3,7,9,10,13,17,21,27,26,31,34,36,39,41,43,47,46,48,51	169360	31	95856	152863	85923	33	53	2.84	35.83	125.35	355.74	7	361089	22	3	1	1
816	1,3,7,9,10,13,17,21,27,26,31,34,36,39,41,43,47,46,48,52,53,54	166485	31	84276	149989	93158	31	52	2.97	36.23	125.35	347.05	6	330090	22	3	1	1

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
817	1,3,7,9,10,13,17,21,27,26,31,34,36,39,41,43,47,49,53,54	158310	32	56076	141813	104623	31	48	3.33	36.64	127.93	316.95	6	306345	22	3	1	1
818	1,3,7,9,10,13,17,21,27,26,31,34,36,39,41,43,50,54	157431	30	55445	140934	103743	31	49	2.97	38.55	129.01	310.36	5	303571	22	3	1	1
819	1,3,7,9,10,13,17,21,27,26,31,34,36,39,44,55	149207	25	66812	139507	102316	30	44	2.84	37.72	128.40	306.21	5	299546	22	3	1	1
820	1,3,7,9,10,13,17,21,27,26,31,34,36,39,45,55	164191	29	94131	147081	95700	35	49	3.25	42.06	148.45	325.47	5	355548	22	3	1	1
821	1,3,7,9,10,13,17,21,27,26,31,34,38,40,42,46,48,51	157945	27	59102	150144	103308	34	50	3.00	36.99	75.99	383.61	7	294674	22	3	1	6
822	1,3,7,9,10,13,17,21,27,26,31,34,38,40,42,46,48,52,53,54	155070	27	47522	147270	110542	32	49	3.13	37.40	75.99	374.92	6	263675	22	3	1	6
823	1,3,7,9,10,13,17,21,27,26,31,34,38,40,42,47,50,54	147279	28	19954	139479	122391	34	46	3.13	39.71	81.73	339.84	5	242208	22	3	1	6
824	1,3,7,9,10,13,17,21,27,26,31,34,38,40,42,49,53,54	146895	27	19322	139095	122007	32	45	3.49	37.80	78.56	344.82	6	239929	22	3	1	6
825	1,3,7,9,10,13,17,21,27,26,31,34,38,41,44,55	151402	24	43708	137380	120292	31	45	3.00	38.88	79.85	352.76	5	273464	22	3	1	6
826	1,3,7,9,10,13,17,21,27,26,31,34,38,41,45,55	166386	28	71027	144953	113676	36	50	3.41	43.23	99.90	372.02	5	329467	22	3	1	6
827	1,3,7,9,10,13,17,21,27,26,31,34,38,43,47,46,48,51	157961	26	59158	150736	103900	34	50	3.00	36.99	76.81	383.76	7	294929	22	3	1	6
828	1,3,7,9,10,13,17,21,27,26,31,34,38,43,47,46,48,52,53,54	155086	26	47578	147861	111134	32	49	3.13	37.40	76.81	375.07	6	263930	22	3	1	6
829	1,3,7,9,10,13,17,21,27,26,31,34,38,43,47,49,53,54	146911	27	19379	139686	122599	32	45	3.49	37.80	79.38	344.97	6	240185	22	3	1	6
830	1,3,7,9,10,13,17,21,27,26,31,34,38,43,50,54	146032	25	18747	138807	121719	32	46	3.13	39.71	80.46	338.37	5	237411	22	3	1	6
831	1,3,7,9,10,13,17,21,27,26,33,37,40,41,44,55	151628	22	43870	137444	105817	32	46	2.74	36.82	79.98	353.42	5	276136	22	3	1	1
832	1,3,7,9,10,13,17,21,27,26,33,37,40,41,45,55	166612	26	71189	145018	99201	37	51	3.15	41.17	100.04	372.68	5	332138	22	3	1	1
833	1,3,7,9,10,13,17,21,27,26,33,37,40,43,47,46,48,51	158187	26	59320	150800	89424	35	51	2.74	34.94	76.94	384.26	7	297601	22	3	1	1
834	1,3,7,9,10,13,17,21,27,26,33,37,40,43,47,46,48,52,53,54	155313	26	47740	147926	96659	33	50	2.87	35.34	76.94	375.57	6	266602	22	3	1	1
835	1,3,7,9,10,13,17,21,27,26,33,37,40,43,47,49,53,54	147138	27	19540	139751	108124	33	46	3.23	35.75	79.51	345.47	6	242857	22	3	1	1
836	1,3,7,9,10,13,17,21,27,26,33,37,40,43,50,54	146259	25	18909	138872	107244	33	47	2.87	37.66	80.59	338.88	5	240083	22	3	1	1
837	1,3,7,9,10,13,17,21,27,26,33,37,42,46,48,51	157021	23	58113	150209	88833	33	51	2.74	34.94	76.13	383.26	7	292884	22	3	1	1
838	1,3,7,9,10,13,17,21,27,26,33,37,42,46,48,52,53,54	154147	23	46533	147335	96067	31	50	2.87	35.34	76.13	374.57	6	261885	22	3	1	1
839	1,3,7,9,10,13,17,21,27,26,33,37,42,47,50,54	146355	24	18965	139543	107916	33	47	2.87	37.66	81.86	339.49	5	240419	22	3	1	1
840	1,3,7,9,10,13,17,21,27,26,33,37,42,49,53,54	145971	23	18334	139159	107532	31	46	3.23	35.75	78.70	344.47	6	238140	22	3	1	1
841	1,3,7,9,10,13,17,21,28,31,30,32,46,47,50,54	167630	29	71661	137674	109824	37	56	2.45	41.92	100.91	369.76	5	369419	33	3	0	5
842	1,3,7,9,10,13,17,21,28,31,30,32,46,49,53,54	167246	28	71029	137290	109440	35	55	2.82	40.02	97.74	374.15	6	367141	33	3	0	5
843	1,3,7,9,10,13,17,21,28,31,30,32,48,51	162838	26	95352	132882	83137	37	58	2.32	39.20	95.17	360.31	5	399623	33	3	0	5
844	1,3,7,9,10,13,17,21,28,31,30,32,48,52,53,54	159964	26	83772	130008	90371	35	57	2.45	39.61	95.17	351.62	4	368624	33	3	0	5
845	1,3,7,9,10,13,17,21,28,31,33,37,40,41,44,55	150986	22	41597	137645	108583	32	46	2.74	35.66	86.03	346.38	5	270159	22	3	0	1
846	1,3,7,9,10,13,17,21,28,31,33,37,40,41,45,55	165970	26	68916	145218	101967	37	51	3.15	40.01	106.08	365.64	5	326162	22	3	0	1
847	1,3,7,9,10,13,17,21,28,31,33,37,40,43,47,46,48,51	157545	26	57047	151001	92191	35	51	2.74	33.78	82.99	377.23	7	291624	22	3	0	1
848	1,3,7,9,10,13,17,21,28,31,33,37,40,43,47,46,48,52,53,54	154671	26	45467	148126	99425	33	50	2.87	34.18	82.99	368.54	6	260625	22	3	0	1
849	1,3,7,9,10,13,17,21,28,31,33,37,40,43,47,49,53,54	146495	27	17267	139951	110890	33	46	3.23	34.59	85.56	338.44	6	236880	22	3	0	1
850	1,3,7,9,10,13,17,21,28,31,33,37,40,43,50,54	145616	25	16636	139072	110011	33	47	2.87	36.50	86.64	331.84	5	234106	22	3	0	1
851	1,3,7,9,10,13,17,21,28,31,33,37,42,46,48,51	156378	23	55840	150409	91599	33	51	2.74	33.78	82.17	376.23	7	286908	22	3	0	1
852	1,3,7,9,10,13,17,21,28,31,33,37,42,46,48,52,53,54	153504	23	44260	147535	98833	31	50	2.87	34.18	82.17	367.54	6	255909	22	3	0	1
853	1,3,7,9,10,13,17,21,28,31,33,37,42,47,50,54	145713	24	16692	139744	110682	33	47	2.87	36.50	87.91	332.45	5	234442	22	3	0	1
854	1,3,7,9,10,13,17,21,28,31,33,37,42,49,53,54	145329	23	16061	139360	110298	31	46	3.23	34.59	84.75	337.44	6	232164	22	3	0	1
855	1,3,7,9,10,13,17,21,28,34,35,37,40,41,44,55	150735	22	41796	137807	113400	32	45	2.74	36.65	84.99	345.69	5	267312	22	3	0	1
856	1,3,7,9,10,13,17,21,28,34,35,37,40,41,45,55	165719	26	69116	145381	106784	37	50	3.15	41.00	105.04	364.95	5	323315	22	3	0	1
857	1,3,7,9,10,13,17,21,28,34,35,37,40,43,47,46,48,51	157294	26	57247	151163	97007	35	50	2.74	34.77	81.94	376.54	7	288778	22	3	0	1
858	1,3,7,9,10,13,17,21,28,34,35,37,40,43,47,46,48,52,53,54	154420	26	45667	148289	104241	33	49	2.87	35.17	81.94	367.85	6	257779	22	3	0	1
859	1,3,7,9,10,13,17,21,28,34,35,37,40,43,47,49,53,54	146245	27	17467	140114	115706	33	45	3.23	35.58	84.52	337.75	6	234033	22	3	0	1
860	1,3,7,9,10,13,17,21,28,34,35,37,40,43,50,54	145365	25	16835	139234	114827	33	46	2.87	37.49	85.60	331.15	5	231259	22	3	0	1
861	1,3,7,9,10,13,17,21,28,34,35,37,42,46,48,51	156128	23	56040	150572	96416	33	50	2.74	34.77	81.13	375.54	7	284061	22	3	0	1
862	1,3,7,9,10,13,17,21,28,34,35,37,42,46,48,52,53,54	153253	23	44460	147698	103650	31	49	2.87	35.17	81.13	366.85	6	253062	22	3	0	1
863	1,3,7,9,10,13,17,21,28,34,35,37,42,47,50,54	145462	24	16892	139906	115499	33	46	2.87	37.49	86.87	331.77	5	231596	22	3	0	1
864	1,3,7,9,10,13,17,21,28,34,35,37,42,49,53,54	145078	23	16260	139522	115115	31	45	3.23	35.58	83.70	336.75	6	229317	22	3	0	1
865	1,3,7,9,10,13,17,21,28,34,36,39,41,40,42,46,48,51	167874	26	92700	152472	88098	33	53	2.84	34.67	129.97	346.45	7	350724	22	3	0	1
866	1,3,7,9,10,13,17,21,28,34,36,39,41,40,42,46,48,52,53,54	165000	26	81120	149597	95332	31	52	2.97	35.07	129.97	337.75	6	319725	22	3	0	1
867	1,3,7,9,10,13,17,21,28,34,36,39,41,40,42,47,50,54	157209	27	53552	141806	107181	33	49	2.97	37.39	135.71	302.67	5	298258	22	3	0	1

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
868	1,3,7,9,10,13,17,21,28,34,36,39,41,40,42,49,53,54	156825	26	52920	141422	106797	31	48	3.33	35.48	132.54	307.66	6	295980	22	3	0	1
869	1,3,7,9,10,13,17,21,28,34,36,39,41,43,47,46,48,51	167891	27	92756	153063	88690	33	53	2.84	34.67	130.78	346.59	7	350980	22	3	0	1
870	1,3,7,9,10,13,17,21,28,34,36,39,41,43,47,46,48,52,53,54	165016	27	81176	150189	95924	31	52	2.97	35.07	130.78	337.90	6	319981	22	3	0	1
871	1,3,7,9,10,13,17,21,28,34,36,39,41,43,47,49,53,54	156841	28	52977	142014	107389	31	48	3.33	35.48	133.36	307.80	6	296236	22	3	0	1
872	1,3,7,9,10,13,17,21,28,34,36,39,41,43,50,54	155962	26	52345	141134	106510	31	49	2.97	37.39	134.44	301.20	5	293461	22	3	0	1
873	1,3,7,9,10,13,17,21,28,34,36,39,44,55	147738	21	63712	139707	105082	30	44	2.84	36.55	133.83	297.06	5	289436	22	3	0	1
874	1,3,7,9,10,13,17,21,28,34,36,39,45,55	162721	25	91031	147281	98466	35	49	3.25	40.90	153.88	316.31	5	345439	22	3	0	1
875	1,3,7,9,10,13,17,21,28,34,38,40,42,46,48,51	156476	23	56002	150345	106074	34	50	3.00	35.83	81.42	374.46	7	284564	22	3	0	6
876	1,3,7,9,10,13,17,21,28,34,38,40,42,46,48,52,53,54	153601	23	44422	147470	113309	32	49	3.13	36.23	81.42	365.77	6	253565	22	3	0	6
877	1,3,7,9,10,13,17,21,28,34,38,40,42,47,50,54	145810	24	16854	139679	125158	34	46	3.13	38.55	87.16	330.68	5	232099	22	3	0	6
878	1,3,7,9,10,13,17,21,28,34,38,40,42,49,53,54	145426	23	16223	139295	124774	32	45	3.49	36.64	84.00	335.67	6	229820	22	3	0	6
879	1,3,7,9,10,13,17,21,28,34,38,41,44,55	149933	20	40608	137580	123058	31	45	3.00	37.71	85.28	343.60	5	263355	22	3	0	6
880	1,3,7,9,10,13,17,21,28,34,38,41,45,55	164916	24	67928	145154	116442	36	50	3.41	42.06	105.33	362.86	5	319357	22	3	0	6
881	1,3,7,9,10,13,17,21,28,34,38,43,47,46,48,51	156492	22	56059	150936	106666	34	50	3.00	35.83	82.24	374.60	7	284820	22	3	0	6
882	1,3,7,9,10,13,17,21,28,34,38,43,47,46,48,52,53,54	153617	22	44478	148062	113900	32	49	3.13	36.23	82.24	365.91	6	253821	22	3	0	6
883	1,3,7,9,10,13,17,21,28,34,38,43,47,49,53,54	145442	23	16279	139886	125365	32	45	3.49	36.64	84.81	335.81	6	230076	22	3	0	6
884	1,3,7,9,10,13,17,21,28,34,38,43,50,54	144563	21	15647	139007	124486	32	46	3.13	38.55	85.89	329.22	5	227302	22	3	0	6
885	1,3,7,9,10,15,23,26,30,32,46,47,50,54	167601	29	75059	133395	106202	35	53	2.98	44.09	105.84	358.58	5	372497	30	3	1	5
886	1,3,7,9,10,15,23,26,30,32,46,49,53,54	167217	28	74427	133011	105818	33	52	3.35	42.18	102.68	362.98	6	370218	30	3	1	5
887	1,3,7,9,10,15,23,26,30,32,48,51	162809	26	98750	128604	79515	35	55	2.86	41.37	100.11	349.13	5	402701	30	3	1	5
888	1,3,7,9,10,15,23,26,30,32,48,52,53,54	159935	26	87170	125729	86749	33	54	2.98	41.77	100.11	340.44	4	371702	30	3	1	5
889	1,3,7,9,10,15,23,26,31,34,35,37,40,41,44,55	151533	24	46021	133529	109778	30	42	3.28	38.82	90.54	336.69	5	274523	19	3	1	1
890	1,3,7,9,10,15,23,26,31,34,35,37,40,41,45,55	166517	28	73340	141103	103162	35	47	3.68	43.17	110.59	355.95	5	330525	19	3	1	1
891	1,3,7,9,10,15,23,26,31,34,35,37,40,43,47,46,48,51	158092	28	61471	146885	93385	33	47	3.28	36.94	87.50	367.54	7	295988	19	3	1	1
892	1,3,7,9,10,15,23,26,31,34,35,37,40,43,47,46,48,52,53,54	155218	28	49891	144011	100620	31	46	3.40	37.34	87.50	358.84	6	264989	19	3	1	1
893	1,3,7,9,10,15,23,26,31,34,35,37,40,43,47,49,53,54	147043	29	21692	135836	112085	31	42	3.77	37.75	90.07	328.75	6	241244	19	3	1	1
894	1,3,7,9,10,15,23,26,31,34,35,37,40,43,50,54	146163	27	21060	134956	111205	31	43	3.40	39.66	91.15	322.15	5	238470	19	3	1	1
895	1,3,7,9,10,15,23,26,31,34,35,37,42,46,48,51	156926	25	60265	146294	92794	31	47	3.28	36.94	86.68	366.54	7	291272	19	3	1	1
896	1,3,7,9,10,15,23,26,31,34,35,37,42,46,48,52,53,54	154051	25	48684	143419	100028	29	46	3.40	37.34	86.68	357.84	6	260273	19	3	1	1
897	1,3,7,9,10,15,23,26,31,34,35,37,42,47,50,54	146260	26	21116	135628	111877	31	43	3.40	39.66	92.42	322.76	5	238806	19	3	1	1
898	1,3,7,9,10,15,23,26,31,34,35,37,42,49,53,54	145876	25	20485	135244	111493	29	42	3.77	37.75	89.26	327.75	6	236527	19	3	1	1
899	1,3,7,9,10,15,23,26,31,34,36,39,41,40,42,46,48,51	168672	28	96924	148194	84476	31	50	3.38	36.84	135.52	337.44	7	357935	19	3	1	1
900	1,3,7,9,10,15,23,26,31,34,36,39,41,40,42,46,48,52,53,54	165798	28	85344	145319	91710	29	49	3.50	37.24	135.52	328.75	6	326936	19	3	1	1
901	1,3,7,9,10,15,23,26,31,34,36,39,41,40,42,47,50,54	158007	29	57776	137528	103560	31	46	3.50	39.56	141.26	293.67	5	305469	19	3	1	1
902	1,3,7,9,10,15,23,26,31,34,36,39,41,40,42,49,53,54	157623	28	57145	137144	103176	29	45	3.87	37.65	138.10	298.65	6	303190	19	3	1	1
903	1,3,7,9,10,15,23,26,31,34,36,39,41,43,47,46,48,51	168688	29	96981	148785	85068	31	50	3.38	36.84	136.34	337.59	7	358190	19	3	1	1
904	1,3,7,9,10,15,23,26,31,34,36,39,41,43,47,46,48,52,53,54	165814	29	85401	145911	92302	29	49	3.50	37.24	136.34	328.89	6	327191	19	3	1	1
905	1,3,7,9,10,15,23,26,31,34,36,39,41,43,47,49,53,54	157639	30	57201	137735	103767	29	45	3.87	37.65	138.91	298.80	6	303446	19	3	1	1
906	1,3,7,9,10,15,23,26,31,34,36,39,41,43,50,54	156760	28	56570	136856	102888	29	46	3.50	39.56	139.99	292.20	5	300672	19	3	1	1
907	1,3,7,9,10,15,23,26,31,34,36,39,44,55	148535	23	67937	135429	101460	28	41	3.38	38.72	139.38	288.05	5	296647	19	3	1	1
908	1,3,7,9,10,15,23,26,31,34,36,39,45,55	163519	27	95256	143003	94844	33	46	3.78	43.07	159.43	307.31	5	352649	19	3	1	1
909	1,3,7,9,10,15,23,26,31,34,38,40,42,46,48,51	157273	25	60227	146066	102453	32	47	3.54	38.00	86.98	365.45	7	291775	19	3	1	6
910	1,3,7,9,10,15,23,26,31,34,38,40,42,46,48,52,53,54	154399	25	48647	143192	109687	30	46	3.66	38.40	86.98	356.76	6	260776	19	3	1	6
911	1,3,7,9,10,15,23,26,31,34,38,40,42,47,50,54	146608	26	21079	135401	121536	32	43	3.66	40.72	92.71	321.68	5	239309	19	3	1	6
912	1,3,7,9,10,15,23,26,31,34,38,40,42,49,53,54	146224	25	20447	135017	121152	30	42	4.03	38.81	89.55	326.66	6	237030	19	3	1	6
913	1,3,7,9,10,15,23,26,31,34,38,41,44,55	150730	22	44833	133302	119437	29	42	3.54	39.88	90.83	334.60	5	270565	19	3	1	6
914	1,3,7,9,10,15,23,26,31,34,38,41,45,55	165714	26	72152	140875	112820	34	47	3.94	44.23	110.89	353.86	5	326568	19	3	1	6
915	1,3,7,9,10,15,23,26,31,34,38,43,47,46,48,51	157290	24	60283	146658	103044	32	47	3.54	38.00	87.79	365.60	7	292031	19	3	1	6
916	1,3,7,9,10,15,23,26,31,34,38,43,47,46,48,52,53,54	154415	24	48703	143783	110278	30	46	3.66	38.40	87.79	356.91	6	261031	19	3	1	6
917	1,3,7,9,10,15,23,26,31,34,38,43,47,49,53,54	146240	25	20504	135608	121743	30	42	4.03	38.81	90.36	326.81	6	237286	19	3	1	6
918	1,3,7,9,10,15,23,26,31,34,38,43,50,54	145361	23	19872	134729	120864	30	43	3.66	40.72	91.44	320.21	5	234512	19	3	1	6

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
919	1,3,7,9,10,15,23,26,33,37,40,41,44,55	150957	20	44995	133366	104961	30	43	3.28	37.83	90.97	335.26	5	273237	19	3	1	1
920	1,3,7,9,10,15,23,26,33,37,40,41,45,55	165941	24	72314	140940	98345	35	48	3.68	42.18	111.02	354.52	5	329239	19	3	1	1
921	1,3,7,9,10,15,23,26,33,37,40,43,47,46,48,51	157516	24	60445	146722	88569	33	48	3.28	35.94	87.92	366.11	7	294702	19	3	1	1
922	1,3,7,9,10,15,23,26,33,37,40,43,47,46,48,52,53,54	154642	24	48865	143848	95803	31	47	3.40	36.35	87.92	357.41	6	263703	19	3	1	1
923	1,3,7,9,10,15,23,26,33,37,40,43,47,49,53,54	146467	25	20665	135673	107268	31	43	3.77	36.76	90.49	327.32	6	239958	19	3	1	1
924	1,3,7,9,10,15,23,26,33,37,40,43,50,54	145587	23	20034	134794	106389	31	44	3.40	38.67	91.58	320.72	5	237184	19	3	1	1
925	1,3,7,9,10,15,23,26,33,37,42,46,48,51	156350	21	59238	146131	87977	31	48	3.28	35.94	87.11	365.11	7	289986	19	3	1	1
926	1,3,7,9,10,15,23,26,33,37,42,46,48,52,53,54	153475	21	47658	143257	95211	29	47	3.40	36.35	87.11	356.41	6	258986	19	3	1	1
927	1,3,7,9,10,15,23,26,33,37,42,47,50,54	145684	22	20090	135465	107061	31	44	3.40	38.67	92.84	321.33	5	237520	19	3	1	1
928	1,3,7,9,10,15,23,26,33,37,42,49,53,54	145300	21	19459	135081	106677	29	43	3.77	36.76	89.68	326.32	6	235241	19	3	1	1
929	1,3,7,9,10,15,23,27,28,31,30,32,46,47,50,54	167912	29	73739	133596	108968	35	53	2.98	42.93	114.98	351.60	5	370334	30	3	0	5
930	1,3,7,9,10,15,23,27,28,31,30,32,46,49,53,54	167528	28	73108	133212	108584	33	52	3.35	41.02	111.82	355.99	6	368056	30	3	0	5
931	1,3,7,9,10,15,23,27,28,31,30,32,48,51	163120	26	97430	128804	82281	35	55	2.86	40.21	109.25	342.15	5	400538	30	3	0	5
932	1,3,7,9,10,15,23,27,28,31,30,32,48,52,53,54	160246	26	85850	125930	89515	33	54	2.98	40.61	109.25	333.46	4	369539	30	3	0	5
933	1,3,7,9,10,15,23,27,28,31,33,37,40,41,44,55	151268	22	43675	133567	107728	30	43	3.28	36.67	100.11	328.22	5	271074	19	3	0	1
934	1,3,7,9,10,15,23,27,28,31,33,37,40,41,45,55	166252	26	70995	141140	101111	35	48	3.68	41.01	120.16	347.48	5	327077	19	3	0	1
935	1,3,7,9,10,15,23,27,28,31,33,37,40,43,47,46,48,51	157827	26	59126	146923	91335	33	48	3.28	34.78	97.07	359.07	7	292539	19	3	0	1
936	1,3,7,9,10,15,23,27,28,31,33,37,40,43,47,46,48,52,53,54	154953	26	47545	144048	98569	31	47	3.40	35.18	97.07	350.38	6	261540	19	3	0	1
937	1,3,7,9,10,15,23,27,28,31,33,37,40,43,47,49,53,54	146778	27	19346	135873	110034	31	43	3.77	35.59	99.64	320.28	6	237795	19	3	0	1
938	1,3,7,9,10,15,23,27,28,31,33,37,40,43,50,54	145898	25	18714	134994	109155	31	44	3.40	37.50	100.72	313.68	5	235021	19	3	0	1
939	1,3,7,9,10,15,23,27,28,31,33,37,42,46,48,51	156661	23	57919	146331	90744	31	48	3.28	34.78	96.25	358.07	7	287823	19	3	0	1
940	1,3,7,9,10,15,23,27,28,31,33,37,42,46,48,52,53,54	153786	23	46339	143457	97978	29	47	3.40	35.18	96.25	349.38	6	256824	19	3	0	1
941	1,3,7,9,10,15,23,27,28,31,33,37,42,47,50,54	145995	24	18771	135666	109827	31	44	3.40	37.50	101.99	314.30	5	235357	19	3	0	1
942	1,3,7,9,10,15,23,27,28,31,33,37,42,49,53,54	145611	23	18139	135282	109443	29	43	3.77	35.59	98.82	319.28	6	233079	19	3	0	1
943	1,3,7,9,10,15,23,27,28,34,35,37,40,41,44,55	151017	22	43875	133729	112544	30	42	3.28	37.66	99.07	327.53	5	268227	19	3	0	1
944	1,3,7,9,10,15,23,27,28,34,35,37,40,41,45,55	166001	26	71194	141303	105928	35	47	3.68	42.01	119.12	346.79	5	324230	19	3	0	1
945	1,3,7,9,10,15,23,27,28,34,35,37,40,43,47,46,48,51	157577	26	59325	147085	96152	33	47	3.28	35.77	96.02	358.38	7	289693	19	3	0	1
946	1,3,7,9,10,15,23,27,28,34,35,37,40,43,47,46,48,52,53,54	154702	26	47745	144211	103386	31	46	3.40	36.18	96.02	349.69	6	258694	19	3	0	1
947	1,3,7,9,10,15,23,27,28,34,35,37,40,43,47,49,53,54	146527	27	19545	136036	114851	31	42	3.77	36.59	98.60	319.59	6	234948	19	3	0	1
948	1,3,7,9,10,15,23,27,28,34,35,37,40,43,50,54	145648	25	18914	135156	113972	31	43	3.40	38.49	99.68	312.99	5	232174	19	3	0	1
949	1,3,7,9,10,15,23,27,28,34,35,37,42,46,48,51	156410	23	58118	146494	95560	31	47	3.28	35.77	95.21	357.38	7	284976	19	3	0	1
950	1,3,7,9,10,15,23,27,28,34,35,37,42,46,48,52,53,54	153536	23	46538	143620	102794	29	46	3.40	36.18	95.21	348.69	6	253977	19	3	0	1
951	1,3,7,9,10,15,23,27,28,34,35,37,42,47,50,54	145744	24	18970	135828	114643	31	43	3.40	38.49	100.94	313.61	5	232511	19	3	0	1
952	1,3,7,9,10,15,23,27,28,34,35,37,42,49,53,54	145361	23	18339	135444	114259	29	42	3.77	36.59	97.78	318.59	6	230232	19	3	0	1
953	1,3,7,9,10,15,23,27,28,34,36,39,41,40,42,46,48,51	168157	26	94778	148394	87243	31	50	3.38	35.68	144.05	328.29	7	351639	19	3	0	1
954	1,3,7,9,10,15,23,27,28,34,36,39,41,40,42,46,48,52,53,54	165282	26	83198	145519	94477	29	49	3.50	36.08	144.05	319.60	6	320640	19	3	0	1
955	1,3,7,9,10,15,23,27,28,34,36,39,41,40,42,47,50,54	157491	27	55630	137728	106326	31	46	3.50	38.40	149.78	284.51	5	299173	19	3	0	1
956	1,3,7,9,10,15,23,27,28,34,36,39,41,40,42,49,53,54	157107	26	54999	137344	105942	29	45	3.87	36.49	146.62	289.50	6	296895	19	3	0	1
957	1,3,7,9,10,15,23,27,28,34,36,39,41,43,47,46,48,51	168173	27	94835	148985	87834	31	50	3.38	35.68	144.86	328.43	7	351895	19	3	0	1
958	1,3,7,9,10,15,23,27,28,34,36,39,41,43,47,46,48,52,53,54	165298	27	83255	146111	95068	29	49	3.50	36.08	144.86	319.74	6	320896	19	3	0	1
959	1,3,7,9,10,15,23,27,28,34,36,39,41,43,47,49,53,54	157123	28	55055	137936	106533	29	45	3.87	36.49	147.44	289.64	6	297151	19	3	0	1
960	1,3,7,9,10,15,23,27,28,34,36,39,41,43,50,54	156244	26	54423	137056	105654	29	46	3.50	38.40	148.52	283.04	5	294377	19	3	0	1
961	1,3,7,9,10,15,23,27,28,34,36,39,44,55	148020	21	65790	135629	104227	28	41	3.38	37.56	147.91	278.90	5	290352	19	3	0	1
962	1,3,7,9,10,15,23,27,28,34,36,39,45,55	163004	25	93110	143203	97610	33	46	3.78	41.91	167.96	298.15	5	346354	19	3	0	1
963	1,3,7,9,10,15,23,27,28,34,38,40,42,46,48,51	156758	23	58081	146267	105219	32	47	3.54	36.84	95.50	356.30	7	285479	19	3	0	6
964	1,3,7,9,10,15,23,27,28,34,38,40,42,46,48,52,53,54	153884	23	46501	143392	112453	30	46	3.66	37.24	95.50	347.61	6	254480	19	3	0	6
965	1,3,7,9,10,15,23,27,28,34,38,40,42,47,50,54	146092	24	18933	135601	124302	32	43	3.66	39.56	101.23	312.53	5	233014	19	3	0	6
966	1,3,7,9,10,15,23,27,28,34,38,40,42,49,53,54	145708	23	18301	135217	123918	30	42	4.03	37.65	98.07	317.51	6	230735	19	3	0	6
967	1,3,7,9,10,15,23,27,28,34,38,41,44,55	150215	20	42687	133502	122203	29	42	3.54	38.72	99.36	325.44	5	264270	19	3	0	6
968	1,3,7,9,10,15,23,27,28,34,38,41,45,55	165199	24	70006	141076	115586	34	47	3.94	43.07	119.41	344.70	5	320272	19	3	0	6
969	1,3,7,9,10,15,23,27,28,34,38,43,47,46,48,51	156774	22	58137	146858	105810	32	47	3.54	36.84	96.31	356.44	7	285735	19	3	0	6

Table F-1: Route Data for All Routes

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
970	1,3,7,9,10,15,23,27,28,34,38,43,47,46,48,52,53,54	153900	22	46557	143984	113044	30	46	3.66	37.24	96.31	347.75	6	254736	19	3	0	6
971	1,3,7,9,10,15,23,27,28,34,38,43,47,49,53,54	145724	23	18357	135808	124509	30	42	4.03	37.65	98.89	317.65	6	230991	19	3	0	6
972	1,3,7,9,10,15,23,27,28,34,38,43,50,54	144845	21	17726	134929	123630	30	43	3.66	39.56	99.97	311.06	5	228217	19	3	0	6
973	1,3,7,9,10,16,18,19,22,24,29,36,35,37,40,41,44,55	165487	25	81816	135506	101491	32	47	2.49	37.70	96.04	353.58	5	377158	61.5	3	0	1
974	1,3,7,9,10,16,18,19,22,24,29,36,35,37,40,41,45,55	180471	29	109136	143080	94874	37	52	2.90	42.04	116.09	372.84	5	433161	61.5	3	0	1
975	1,3,7,9,10,16,18,19,22,24,29,36,35,37,40,43,47,46,48,51	172046	29	97267	148862	85098	35	52	2.49	35.81	93.00	384.42	7	398624	61.5	3	0	1
976	1,3,7,9,10,16,18,19,22,24,29,36,35,37,40,43,47,46,48,52,53,54	169172	29	85686	145988	92332	33	51	2.62	36.21	93.00	375.73	6	367625	61.5	3	0	1
977	1,3,7,9,10,16,18,19,22,24,29,36,35,37,40,43,47,49,53,54	160997	30	57487	137812	103797	33	47	2.98	36.62	95.57	345.63	6	343879	61.5	3	0	1
978	1,3,7,9,10,16,18,19,22,24,29,36,35,37,40,43,50,54	160117	28	56855	136933	102918	33	48	2.62	38.53	96.65	339.04	5	341105	61.5	3	0	1
979	1,3,7,9,10,16,18,19,22,24,29,36,35,37,42,46,48,51	170880	26	96060	148271	84507	33	52	2.49	35.81	92.18	383.42	7	393907	61.5	3	0	1
980	1,3,7,9,10,16,18,19,22,24,29,36,35,37,42,46,48,52,53,54	168005	26	84480	145396	91741	31	51	2.62	36.21	92.18	374.73	6	362908	61.5	3	0	1
981	1,3,7,9,10,16,18,19,22,24,29,36,35,37,42,47,50,54	160214	27	56912	137605	103590	33	48	2.62	38.53	97.92	339.65	5	341442	61.5	3	0	1
982	1,3,7,9,10,16,18,19,22,24,29,36,35,37,42,49,53,54	159830	26	56280	137221	103206	31	47	2.98	36.62	94.75	344.63	6	339163	61.5	3	0	1
983	1,3,7,9,10,16,18,19,22,24,29,36,38,40,42,46,48,51	171228	27	96022	148043	94165	34	52	2.75	36.87	92.47	382.31	7	394410	61.5	3	0	6
984	1,3,7,9,10,16,18,19,22,24,29,36,38,40,42,46,48,52,53,54	168353	27	84442	145169	101399	32	51	2.87	37.28	92.47	373.62	6	363411	61.5	3	0	6
985	1,3,7,9,10,16,18,19,22,24,29,36,38,40,42,47,50,54	160562	28	56874	137378	113248	34	48	2.87	39.60	98.21	338.54	5	341945	61.5	3	0	6
986	1,3,7,9,10,16,18,19,22,24,29,36,38,40,42,49,53,54	160178	27	56242	136994	112864	32	47	3.24	37.69	95.05	343.52	6	339666	61.5	3	0	6
987	1,3,7,9,10,16,18,19,22,24,29,36,38,41,44,55	164685	24	80628	135279	111149	31	47	2.75	38.76	96.33	351.46	5	373201	61.5	3	0	6
988	1,3,7,9,10,16,18,19,22,24,29,36,38,41,45,55	179668	28	107947	142852	104533	36	52	3.16	43.11	116.38	370.72	5	429203	61.5	3	0	6
989	1,3,7,9,10,16,18,19,22,24,29,36,38,43,47,46,48,51	171244	26	96078	148635	94756	34	52	2.75	36.87	93.29	382.46	7	394666	61.5	3	0	6
990	1,3,7,9,10,16,18,19,22,24,29,36,38,43,47,46,48,52,53,54	168369	26	84498	145760	101991	32	51	2.87	37.28	93.29	373.77	6	363667	61.5	3	0	6
991	1,3,7,9,10,16,18,19,22,24,29,36,38,43,47,49,53,54	160194	27	56299	137585	113456	32	47	3.24	37.69	95.86	343.67	6	339922	61.5	3	0	6
992	1,3,7,9,10,16,18,19,22,24,29,36,38,43,50,54	159315	25	55667	136706	112576	32	48	2.87	39.60	96.94	337.07	5	337148	61.5	3	0	6
993	1,3,7,9,10,16,18,19,22,24,29,39,41,40,42,46,48,51	172998	26	123092	145492	76189	31	55	2.59	35.71	125.17	347.73	7	425015	61.5	3	0	1
994	1,3,7,9,10,16,18,19,22,24,29,39,41,40,42,46,48,52,53,54	170124	26	111511	142617	83423	29	54	2.72	36.12	125.17	339.04	6	394016	61.5	3	0	1
995	1,3,7,9,10,16,18,19,22,24,29,39,41,40,42,47,50,54	162333	27	83943	134826	95272	31	51	2.72	38.43	130.91	303.96	5	372549	61.5	3	0	1
996	1,3,7,9,10,16,18,19,22,24,29,39,41,40,42,49,53,54	161949	26	83312	134442	94888	29	50	3.08	36.53	127.75	308.94	6	370270	61.5	3	0	1
997	1,3,7,9,10,16,18,19,22,24,29,39,41,43,47,46,48,51	173014	27	123148	146083	76780	31	55	2.59	35.71	125.99	347.87	7	425270	61.5	3	0	1
998	1,3,7,9,10,16,18,19,22,24,29,39,41,43,47,46,48,52,53,54	170140	27	111568	143209	84014	29	54	2.72	36.12	125.99	339.18	6	394271	61.5	3	0	1
999	1,3,7,9,10,16,18,19,22,24,29,39,41,43,47,49,53,54	161965	28	83368	135033	95479	29	50	3.08	36.53	128.56	309.08	6	370526	61.5	3	0	1
1000	1,3,7,9,10,16,18,19,22,24,29,39,41,43,50,54	161086	26	82737	134154	94600	29	51	2.72	38.43	129.64	302.48	5	367752	61.5	3	0	1
1001	1,3,7,9,10,16,18,19,22,24,29,39,44,55	152861	21	94104	132727	93173	28	46	2.59	37.60	129.03	298.34	5	363727	61.5	3	0	1
1002	1,3,7,9,10,16,18,19,22,24,29,39,45,55	167845	25	121423	140301	86557	33	51	3.00	41.95	149.08	317.59	5	419729	61.5	3	0	1
1003	1,3,7,9,10,16,18,19,22,25,29,36,35,37,40,41,44,55	163595	24	79924	132286	105970	32	48	2.51	36.25	97.76	343.61	5	373431	62	3	0	1
1004	1,3,7,9,10,16,18,19,22,25,29,36,35,37,40,41,45,55	178579	28	107243	139859	99354	37	53	2.91	40.60	117.82	362.87	5	429433	62	3	0	1
1005	1,3,7,9,10,16,18,19,22,25,29,36,35,37,40,43,47,46,48,51	170154	28	95374	145642	89578	35	53	2.51	34.37	94.72	374.46	7	394896	62	3	0	1
1006	1,3,7,9,10,16,18,19,22,25,29,36,35,37,40,43,47,46,48,52,53,54	167280	28	83794	142767	96812	33	52	2.63	34.77	94.72	365.77	6	363897	62	3	0	1
1007	1,3,7,9,10,16,18,19,22,25,29,36,35,37,40,43,47,49,53,54	159104	29	55594	134592	108277	33	48	3.00	35.18	97.29	335.67	6	340151	62	3	0	1
1008	1,3,7,9,10,16,18,19,22,25,29,36,35,37,40,43,50,54	158225	27	54963	133713	107398	33	49	2.63	37.09	98.37	329.07	5	337377	62	3	0	1
1009	1,3,7,9,10,16,18,19,22,25,29,36,35,37,42,46,48,51	168988	25	94167	145050	88986	33	53	2.51	34.37	93.91	373.46	7	390179	62	3	0	1
1010	1,3,7,9,10,16,18,19,22,25,29,36,35,37,42,46,48,52,53,54	166113	25	82587	142176	96221	31	52	2.63	34.77	93.91	364.77	6	359180	62	3	0	1
1011	1,3,7,9,10,16,18,19,22,25,29,36,35,37,42,47,50,54	158322	26	55019	134385	108070	33	49	2.63	37.09	99.64	329.69	5	337714	62	3	0	1
1012	1,3,7,9,10,16,18,19,22,25,29,36,35,37,42,49,53,54	157938	25	54388	134001	107686	31	48	3.00	35.18	96.48	334.67	6	335435	62	3	0	1
1013	1,3,7,9,10,16,18,19,22,25,29,36,38,40,42,46,48,51	169335	26	94130	144823	98645	34	53	2.77	35.43	94.20	372.35	7	390682	62	3	0	6
1014	1,3,7,9,10,16,18,19,22,25,29,36,38,40,42,46,48,52,53,54	166461	26	82549	141949	105879	32	52	2.89	35.84	94.20	363.66	6	359683	62	3	0	6
1015	1,3,7,9,10,16,18,19,22,25,29,36,38,40,42,47,50,54	158670	27	54982	134157	117728	34	49	2.89	38.15	99.93	328.58	5	338217	62	3	0	6
1016	1,3,7,9,10,16,18,19,22,25,29,36,38,40,42,49,53,54	158286	26	54350	133773	117344	32	48	3.26	36.24	96.77	333.56	6	335938	62	3	0	6
1017	1,3,7,9,10,16,18,19,22,25,29,36,38,41,44,55	162792	23	78736	132058	115629	31	48	2.77	37.32	98.06	341.49	5	369473	62	3	0	6
1018	1,3,7,9,10,16,18,19,22,25,29,36,38,41,45,55	177776	27	106055	139632	109012	36	53	3.17	41.67	118.11	360.75	5	425475	62	3	0	6
1019	1,3,7,9,10,16,18,19,22,25,29,36,38,43,47,46,48,51	169351	25	94186	145414	99236	34	53	2.77	35.43	95.01	372.49	7	390938	62	3	0	6
1020	1,3,7,9,10,16,18,19,22,25,29,36,38,43,47,46,48,52,53,54	166477	25	82606	142540	106470	32	52	2.89	35.84	95.01	363.80	6	359939	62	3	0	6

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
1021	1,3,7,9,10,16,18,19,22,25,29,36,38,43,47,49,53,54	158302	26	54406	134365	117935	32	48	3.26	36.24	97.58	333.70	6	336194	62	3	0	6
1022	1,3,7,9,10,16,18,19,22,25,29,36,38,43,50,54	157423	24	53775	133485	117056	32	49	2.89	38.15	98.66	327.11	5	333420	62	3	0	6
1023	1,3,7,9,10,16,18,19,22,25,29,39,41,40,42,46,48,51	171106	25	121199	142271	80669	31	56	2.61	34.27	126.90	337.76	7	421287	62	3	0	1
1024	1,3,7,9,10,16,18,19,22,25,29,39,41,40,42,46,48,52,53,54	168232	25	109619	139397	87903	29	55	2.73	34.67	126.90	329.07	6	390288	62	3	0	1
1025	1,3,7,9,10,16,18,19,22,25,29,39,41,40,42,47,50,54	160440	26	82051	131606	99752	31	52	2.73	36.99	132.63	293.99	5	368821	62	3	0	1
1026	1,3,7,9,10,16,18,19,22,25,29,39,41,40,42,49,53,54	160056	25	81420	131222	99368	29	51	3.10	35.08	129.47	298.97	6	366542	62	3	0	1
1027	1,3,7,9,10,16,18,19,22,25,29,39,41,43,47,46,48,51	171122	26	121256	142863	81260	31	56	2.61	34.27	127.71	337.91	7	421543	62	3	0	1
1028	1,3,7,9,10,16,18,19,22,25,29,39,41,43,47,46,48,52,53,54	168248	26	109675	139988	88494	29	55	2.73	34.67	127.71	329.21	6	390544	62	3	0	1
1029	1,3,7,9,10,16,18,19,22,25,29,39,41,43,47,49,53,54	160072	27	81476	131813	99959	29	51	3.10	35.08	130.28	299.12	6	366798	62	3	0	1
1030	1,3,7,9,10,16,18,19,22,25,29,39,41,43,50,54	159193	25	80844	130934	99080	29	52	2.73	36.99	131.36	292.52	5	364024	62	3	0	1
1031	1,3,7,9,10,16,18,19,22,25,29,39,44,55	150969	20	92211	129507	97653	28	47	2.61	36.16	130.76	288.37	5	359999	62	3	0	1
1032	1,3,7,9,10,16,18,19,22,25,29,39,45,55	165953	24	119531	137080	91036	33	52	3.01	40.50	150.81	307.63	5	416001	62	3	0	1
1033	1,3,7,9,10,16,18,21,27,26,30,32,46,47,50,54	168338	31	73999	137174	110369	37	55	2.45	43.09	94.86	376.14	5	375898	42.5	3	1	5
1034	1,3,7,9,10,16,18,21,27,26,30,32,46,49,53,54	167954	30	73367	136790	109985	35	54	2.82	41.18	91.70	380.54	6	373619	42.5	3	1	5
1035	1,3,7,9,10,16,18,21,27,26,30,32,48,51	163547	28	97690	132383	83682	37	57	2.32	40.37	89.12	366.69	5	406102	42.5	3	1	5
1036	1,3,7,9,10,16,18,21,27,26,30,32,48,52,53,54	160672	28	86110	129509	90916	35	56	2.45	40.77	89.12	358.00	4	375103	42.5	3	1	5
1037	1,3,7,9,10,16,18,21,27,26,31,34,35,37,40,41,44,55	152270	26	44961	137308	113945	32	44	2.74	37.81	79.56	354.25	5	277924	31.5	3	1	1
1038	1,3,7,9,10,16,18,21,27,26,31,34,35,37,40,41,45,55	167254	30	72280	144882	107329	37	49	3.15	42.16	99.61	373.51	5	333927	31.5	3	1	1
1039	1,3,7,9,10,16,18,21,27,26,31,34,35,37,40,43,47,46,48,51	158829	30	60411	150664	97552	35	49	2.74	35.93	76.51	385.10	7	299389	31.5	3	1	1
1040	1,3,7,9,10,16,18,21,27,26,31,34,35,37,40,43,47,46,48,52,53,54	155955	30	48831	147790	104786	33	48	2.87	36.33	76.51	376.41	6	268390	31.5	3	1	1
1041	1,3,7,9,10,16,18,21,27,26,31,34,35,37,40,43,47,49,53,54	147780	31	20631	139615	116252	33	44	3.23	36.74	79.09	346.31	6	244645	31.5	3	1	1
1042	1,3,7,9,10,16,18,21,27,26,31,34,35,37,40,43,50,54	146901	29	20000	138735	115372	33	45	2.87	38.65	80.17	339.71	5	241871	31.5	3	1	1
1043	1,3,7,9,10,16,18,21,27,26,31,34,35,37,42,46,48,51	157663	27	59204	150073	96961	33	49	2.74	35.93	75.70	384.10	7	294673	31.5	3	1	1
1044	1,3,7,9,10,16,18,21,27,26,31,34,35,37,42,46,48,52,53,54	154789	27	47624	147199	104195	31	48	2.87	36.33	75.70	375.40	6	263674	31.5	3	1	1
1045	1,3,7,9,10,16,18,21,27,26,31,34,35,37,42,47,50,54	146997	28	20056	139407	116044	33	45	2.87	38.65	81.43	340.32	5	242207	31.5	3	1	1
1046	1,3,7,9,10,16,18,21,27,26,31,34,35,37,42,49,53,54	146613	27	19425	139023	115660	31	44	3.23	36.74	78.27	345.31	6	239929	31.5	3	1	1
1047	1,3,7,9,10,16,18,21,27,26,31,34,36,39,41,40,42,46,48,51	169409	30	95864	151973	88643	33	52	2.84	35.83	124.54	355.00	7	361336	31.5	3	1	1
1048	1,3,7,9,10,16,18,21,27,26,31,34,36,39,41,40,42,46,48,52,53,54	166535	30	84284	149098	95877	31	51	2.97	36.23	124.54	346.31	6	330337	31.5	3	1	1
1049	1,3,7,9,10,16,18,21,27,26,31,34,36,39,41,40,42,47,50,54	158744	31	56716	141307	107726	33	48	2.97	38.55	130.27	311.23	5	308870	31.5	3	1	1
1050	1,3,7,9,10,16,18,21,27,26,31,34,36,39,41,40,42,49,53,54	158360	30	56085	140923	107343	31	47	3.33	36.64	127.11	316.21	6	306592	31.5	3	1	1
1051	1,3,7,9,10,16,18,21,27,26,31,34,36,39,41,43,47,46,48,51	169426	31	95921	152564	89235	33	52	2.84	35.83	125.35	355.15	7	361592	31.5	3	1	1
1052	1,3,7,9,10,16,18,21,27,26,31,34,36,39,41,43,47,46,48,52,53,54	166551	31	84341	149690	96469	31	51	2.97	36.23	125.35	346.45	6	330593	31.5	3	1	1
1053	1,3,7,9,10,16,18,21,27,26,31,34,36,39,41,43,47,49,53,54	158376	32	56141	141514	107934	31	47	3.33	36.64	127.93	316.36	6	306847	31.5	3	1	1
1054	1,3,7,9,10,16,18,21,27,26,31,34,36,39,41,43,50,54	157497	30	55509	140635	107055	31	48	2.97	38.55	129.01	309.76	5	304073	31.5	3	1	1
1055	1,3,7,9,10,16,18,21,27,26,31,34,36,39,44,55	149273	25	66876	139208	105627	30	43	2.84	37.72	128.40	305.61	5	300048	31.5	3	1	1
1056	1,3,7,9,10,16,18,21,27,26,31,34,36,39,45,55	164257	29	94196	146782	99011	35	48	3.25	42.06	148.45	324.87	5	356051	31.5	3	1	1
1057	1,3,7,9,10,16,18,21,27,26,31,34,38,40,42,46,48,51	158011	27	59167	149846	106619	34	49	3.00	36.99	75.99	383.01	7	295176	31.5	3	1	6
1058	1,3,7,9,10,16,18,21,27,26,31,34,38,40,42,46,48,52,53,54	155136	27	47586	146971	113854	32	48	3.13	37.40	75.99	374.32	6	264177	31.5	3	1	6
1059	1,3,7,9,10,16,18,21,27,26,31,34,38,40,42,47,50,54	147345	28	20019	139180	125703	34	45	3.13	39.71	81.73	339.24	5	242710	31.5	3	1	6
1060	1,3,7,9,10,16,18,21,27,26,31,34,38,40,42,49,53,54	146961	27	19387	138796	125319	32	44	3.49	37.80	78.56	344.22	6	240432	31.5	3	1	6
1061	1,3,7,9,10,16,18,21,27,26,31,34,38,41,44,55	151468	24	43773	137081	123604	31	44	3.00	38.88	79.85	352.16	5	273967	31.5	3	1	6
1062	1,3,7,9,10,16,18,21,27,26,31,34,38,41,45,55	166452	28	71092	144655	116987	36	49	3.41	43.23	99.90	371.42	5	329969	31.5	3	1	6
1063	1,3,7,9,10,16,18,21,27,26,31,34,38,43,47,46,48,51	158027	26	59223	150437	107211	34	49	3.00	36.99	76.81	383.16	7	295432	31.5	3	1	6
1064	1,3,7,9,10,16,18,21,27,26,31,34,38,43,47,46,48,52,53,54	155152	26	47643	147562	114445	32	48	3.13	37.40	76.81	374.47	6	264433	31.5	3	1	6
1065	1,3,7,9,10,16,18,21,27,26,31,34,38,43,47,49,53,54	146977	27	19443	139387	125910	32	44	3.49	37.80	79.38	344.37	6	240687	31.5	3	1	6
1066	1,3,7,9,10,16,18,21,27,26,31,34,38,43,50,54	146098	25	18812	138508	125031	32	45	3.13	39.71	80.46	337.78	5	237913	31.5	3	1	6
1067	1,3,7,9,10,16,18,21,27,26,33,37,40,41,44,55	151694	22	43934	137146	109128	32	45	2.74	36.82	79.98	352.82	5	276638	31.5	3	1	1
1068	1,3,7,9,10,16,18,21,27,26,33,37,40,41,45,55	166678	26	71254	144719	102512	37	50	3.15	41.17	100.04	372.08	5	332640	31.5	3	1	1
1069	1,3,7,9,10,16,18,21,27,26,33,37,40,43,47,46,48,51	158253	26	59385	150502	92736	35	50	2.74	34.94	76.94	383.67	7	298103	31.5	3	1	1
1070	1,3,7,9,10,16,18,21,27,26,33,37,40,43,47,46,48,52,53,54	155379	26	47805	147627	99970	33	49	2.87	35.34	76.94	374.98	6	267104	31.5	3	1	1
1071	1,3,7,9,10,16,18,21,27,26,33,37,40,43,47,49,53,54	147204	27	19605	139452	111435	33	45	3.23	35.75	79.51	344.88	6	243359	31.5	3	1	1

Westar Energy- JEC to East Manhattan
345/230 kV Transmission Line Project
Table F-1: Route Data for All Routes

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
1072	1,3,7,9,10,16,18,21,27,26,33,37,40,43,50,54	146325	25	18974	138573	110556	33	46	2.87	37.66	80.59	338.28	5	240585	31.5	3	1	1
1073	1,3,7,9,10,16,18,21,27,26,33,37,42,46,48,51	157087	23	58178	149910	92144	33	50	2.74	34.94	76.13	382.67	7	293387	31.5	3	1	1
1074	1,3,7,9,10,16,18,21,27,26,33,37,42,46,48,52,53,54	154213	23	46598	147036	99378	31	49	2.87	35.34	76.13	373.97	6	262388	31.5	3	1	1
1075	1,3,7,9,10,16,18,21,27,26,33,37,42,47,50,54	146421	24	19030	139245	111227	33	46	2.87	37.66	81.86	338.89	5	240921	31.5	3	1	1
1076	1,3,7,9,10,16,18,21,27,26,33,37,42,49,53,54	146037	23	18398	138861	110844	31	45	3.23	35.75	78.70	343.88	6	238642	31.5	3	1	1
1077	1,3,7,9,10,16,18,21,28,31,30,32,46,47,50,54	167696	29	71726	137375	113135	37	55	2.45	41.92	100.91	369.16	5	369922	42.5	3	0	5
1078	1,3,7,9,10,16,18,21,28,31,30,32,46,49,53,54	167312	28	71094	136991	112751	35	54	2.82	40.02	97.74	373.55	6	367643	42.5	3	0	5
1079	1,3,7,9,10,16,18,21,28,31,30,32,48,51	162904	26	95417	132583	86448	37	57	2.32	39.20	95.17	359.71	5	400126	42.5	3	0	5
1080	1,3,7,9,10,16,18,21,28,31,30,32,48,52,53,54	160030	26	83837	129709	93682	35	56	2.45	39.61	95.17	351.02	4	369127	42.5	3	0	5
1081	1,3,7,9,10,16,18,21,28,31,33,37,40,41,44,55	151052	22	41661	137346	111895	32	45	2.74	35.66	86.03	345.78	5	270662	31.5	3	0	1
1082	1,3,7,9,10,16,18,21,28,31,33,37,40,41,45,55	166036	26	68981	144919	105278	37	50	3.15	40.01	106.08	365.04	5	326664	31.5	3	0	1
1083	1,3,7,9,10,16,18,21,28,31,33,37,40,43,47,46,48,51	157611	26	57112	150702	95502	35	50	2.74	33.78	82.99	376.63	7	292127	31.5	3	0	1
1084	1,3,7,9,10,16,18,21,28,31,33,37,40,43,47,46,48,52,53,54	154737	26	45532	147827	102736	33	49	2.87	34.18	82.99	367.94	6	261128	31.5	3	0	1
1085	1,3,7,9,10,16,18,21,28,31,33,37,40,43,47,49,53,54	146561	27	17332	139652	114201	33	45	3.23	34.59	85.56	337.84	6	237382	31.5	3	0	1
1086	1,3,7,9,10,16,18,21,28,31,33,37,40,43,50,54	145682	25	16701	138773	113322	33	46	2.87	36.50	86.64	331.24	5	234608	31.5	3	0	1
1087	1,3,7,9,10,16,18,21,28,31,33,37,42,46,48,51	156444	23	55905	150110	94911	33	50	2.74	33.78	82.17	375.63	7	287410	31.5	3	0	1
1088	1,3,7,9,10,16,18,21,28,31,33,37,42,46,48,52,53,54	153570	23	44325	147236	102145	31	49	2.87	34.18	82.17	366.94	6	256411	31.5	3	0	1
1089	1,3,7,9,10,16,18,21,28,31,33,37,42,47,50,54	145779	24	16757	139445	113994	33	46	2.87	36.50	87.91	331.86	5	234945	31.5	3	0	1
1090	1,3,7,9,10,16,18,21,28,31,33,37,42,49,53,54	145395	23	16125	139061	113610	31	45	3.23	34.59	84.75	336.84	6	232666	31.5	3	0	1
1091	1,3,7,9,10,16,18,21,28,34,35,37,40,41,44,55	150801	22	41861	137508	116711	32	44	2.74	36.65	84.99	345.10	5	267815	31.5	3	0	1
1092	1,3,7,9,10,16,18,21,28,34,35,37,40,41,45,55	165785	26	69181	145082	110095	37	49	3.15	41.00	105.04	364.35	5	323817	31.5	3	0	1
1093	1,3,7,9,10,16,18,21,28,34,35,37,40,43,47,46,48,51	157360	26	57312	150864	100319	35	49	2.74	34.77	81.94	375.94	7	289280	31.5	3	0	1
1094	1,3,7,9,10,16,18,21,28,34,35,37,40,43,47,46,48,52,53,54	154486	26	45731	147990	107553	33	48	2.87	35.17	81.94	367.25	6	258281	31.5	3	0	1
1095	1,3,7,9,10,16,18,21,28,34,35,37,40,43,47,49,53,54	146311	27	17532	139815	119018	33	44	3.23	35.58	84.52	337.15	6	234536	31.5	3	0	1
1096	1,3,7,9,10,16,18,21,28,34,35,37,40,43,50,54	145431	25	16900	138936	118139	33	45	2.87	37.49	85.60	330.55	5	231762	31.5	3	0	1
1097	1,3,7,9,10,16,18,21,28,34,35,37,42,46,48,51	156194	23	56105	150273	99727	33	49	2.74	34.77	81.13	374.94	7	284563	31.5	3	0	1
1098	1,3,7,9,10,16,18,21,28,34,35,37,42,46,48,52,53,54	153319	23	44525	147399	106961	31	48	2.87	35.17	81.13	366.25	6	253564	31.5	3	0	1
1099	1,3,7,9,10,16,18,21,28,34,35,37,42,47,50,54	145528	24	16957	139607	118810	33	45	2.87	37.49	86.87	331.17	5	232098	31.5	3	0	1
1100	1,3,7,9,10,16,18,21,28,34,35,37,42,49,53,54	145144	23	16325	139224	118426	31	44	3.23	35.58	83.70	336.15	6	229819	31.5	3	0	1
1101	1,3,7,9,10,16,18,21,28,34,36,39,41,40,42,46,48,51	167940	26	92765	152173	91410	33	52	2.84	34.67	129.97	345.85	7	351226	31.5	3	0	1
1102	1,3,7,9,10,16,18,21,28,34,36,39,41,40,42,46,48,52,53,54	165066	26	81185	149299	98644	31	51	2.97	35.07	129.97	337.16	6	320227	31.5	3	0	1
1103	1,3,7,9,10,16,18,21,28,34,36,39,41,40,42,47,50,54	157275	27	53617	141507	110493	33	48	2.97	37.39	135.71	302.08	5	298761	31.5	3	0	1
1104	1,3,7,9,10,16,18,21,28,34,36,39,41,40,42,49,53,54	156891	26	52985	141123	110109	31	47	3.33	35.48	132.54	307.06	6	296482	31.5	3	0	1
1105	1,3,7,9,10,16,18,21,28,34,36,39,41,43,47,46,48,51	167957	27	92821	152764	92001	33	52	2.84	34.67	130.78	345.99	7	351482	31.5	3	0	1
1106	1,3,7,9,10,16,18,21,28,34,36,39,41,43,47,46,48,52,53,54	165082	27	81241	149890	99235	31	51	2.97	35.07	130.78	337.30	6	320483	31.5	3	0	1
1107	1,3,7,9,10,16,18,21,28,34,36,39,41,43,47,49,53,54	156907	28	53041	141715	110700	31	47	3.33	35.48	133.36	307.20	6	296738	31.5	3	0	1
1108	1,3,7,9,10,16,18,21,28,34,36,39,41,43,50,54	156028	26	52410	140835	109821	31	48	2.97	37.39	134.44	300.60	5	293964	31.5	3	0	1
1109	1,3,7,9,10,16,18,21,28,34,36,39,44,55	147804	21	63777	139408	108394	30	43	2.84	36.55	133.83	296.46	5	289939	31.5	3	0	1
1110	1,3,7,9,10,16,18,21,28,34,36,39,45,55	162787	25	91096	146982	101777	35	48	3.25	40.90	153.88	315.71	5	345941	31.5	3	0	1
1111	1,3,7,9,10,16,18,21,28,34,38,40,42,46,48,51	156542	23	56067	150046	109386	34	49	3.00	35.83	81.42	373.86	7	285066	31.5	3	0	6
1112	1,3,7,9,10,16,18,21,28,34,38,40,42,46,48,52,53,54	153667	23	44487	147171	116620	32	48	3.13	36.23	81.42	365.17	6	254067	31.5	3	0	6
1113	1,3,7,9,10,16,18,21,28,34,38,40,42,47,50,54	145876	24	16919	139380	128469	34	45	3.13	38.55	87.16	330.09	5	232601	31.5	3	0	6
1114	1,3,7,9,10,16,18,21,28,34,38,40,42,49,53,54	145492	23	16287	138996	128085	32	44	3.49	36.64	84.00	335.07	6	230322	31.5	3	0	6
1115	1,3,7,9,10,16,18,21,28,34,38,41,44,55	149999	20	40673	137281	126370	31	44	3.00	37.71	85.28	343.00	5	263857	31.5	3	0	6
1116	1,3,7,9,10,16,18,21,28,34,38,41,45,55	164982	24	67992	144855	119753	36	49	3.41	42.06	105.33	362.26	5	319859	31.5	3	0	6
1117	1,3,7,9,10,16,18,21,28,34,38,43,47,46,48,51	156558	22	56123	150637	109977	34	49	3.00	35.83	82.24	374.00	7	285322	31.5	3	0	6
1118	1,3,7,9,10,16,18,21,28,34,38,43,47,46,48,52,53,54	153683	22	44543	147763	117211	32	48	3.13	36.23	82.24	365.31	6	254323	31.5	3	0	6
1119	1,3,7,9,10,16,18,21,28,34,38,43,47,49,53,54	145508	23	16344	139587	128676	32	44	3.49	36.64	84.81	335.21	6	230578	31.5	3	0	6
1120	1,3,7,9,10,16,18,21,28,34,38,43,50,54	144629	21	15712	138708	127797	32	45	3.13	38.55	85.89	328.62	5	227804	31.5	3	0	6
1121	1,3,7,9,10,16,20,23,26,30,32,46,47,50,54	167563	27	68676	139014	109909	35	53	2.93	44.85	105.83	363.99	5	354987	41	3	1	5
1122	1,3,7,9,10,16,20,23,26,30,32,46,49,53,54	167179	26	68044	138630	109525	33	52	3.30	42.94	102.67	368.39	6	352709	41	3	1	5

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
1123	1,3,7,9,10,16,20,23,26,30,32,48,51	162771	24	92367	134223	83222	35	55	2.81	42.13	100.10	354.55	5	385191	41	3	1	5
1124	1,3,7,9,10,16,20,23,26,30,32,48,52,53,54	159897	24	80787	131349	90456	33	54	2.93	42.53	100.10	345.86	4	354192	41	3	1	5
1125	1,3,7,9,10,16,20,23,26,31,34,35,37,40,41,44,55	151495	22	39638	139148	113485	30	42	3.23	39.58	90.53	342.11	5	257013	30	3	1	1
1126	1,3,7,9,10,16,20,23,26,31,34,35,37,40,41,45,55	166479	26	66957	146722	106869	35	47	3.63	43.92	110.59	361.36	5	313016	30	3	1	1
1127	1,3,7,9,10,16,20,23,26,31,34,35,37,40,43,47,46,48,51	158054	26	55088	152504	97092	33	47	3.23	37.69	87.49	372.95	7	278479	30	3	1	1
1128	1,3,7,9,10,16,20,23,26,31,34,35,37,40,43,47,46,48,52,53,54	155180	26	43508	149630	104327	31	46	3.35	38.09	87.49	364.26	6	247480	30	3	1	1
1129	1,3,7,9,10,16,20,23,26,31,34,35,37,40,43,47,49,53,54	147005	27	15309	141455	115792	31	42	3.72	38.50	90.06	334.16	6	223734	30	3	1	1
1130	1,3,7,9,10,16,20,23,26,31,34,35,37,40,43,50,54	146125	25	14677	140575	114912	31	43	3.35	40.41	91.14	327.57	5	220960	30	3	1	1
1131	1,3,7,9,10,16,20,23,26,31,34,35,37,42,46,48,51	156888	23	53882	151913	96501	31	47	3.23	37.69	86.68	371.95	7	273762	30	3	1	1
1132	1,3,7,9,10,16,20,23,26,31,34,35,37,42,46,48,52,53,54	154013	23	42301	149039	103735	29	46	3.35	38.09	86.68	363.26	6	242763	30	3	1	1
1133	1,3,7,9,10,16,20,23,26,31,34,35,37,42,47,50,54	146222	24	14733	141247	115584	31	43	3.35	40.41	92.41	328.18	5	221297	30	3	1	1
1134	1,3,7,9,10,16,20,23,26,31,34,35,37,42,49,53,54	145838	23	14102	140863	115200	29	42	3.72	38.50	89.25	333.16	6	219018	30	3	1	1
1135	1,3,7,9,10,16,20,23,26,31,34,36,39,41,40,42,46,48,51	168634	26	90541	153813	88183	31	50	3.33	37.59	135.52	342.86	7	340425	30	3	1	1
1136	1,3,7,9,10,16,20,23,26,31,34,36,39,41,40,42,46,48,52,53,54	165760	26	78961	150938	95418	29	49	3.45	38.00	135.52	334.17	6	309426	30	3	1	1
1137	1,3,7,9,10,16,20,23,26,31,34,36,39,41,40,42,47,50,54	157969	27	51393	143147	107267	31	46	3.45	40.31	141.25	299.09	5	287960	30	3	1	1
1138	1,3,7,9,10,16,20,23,26,31,34,36,39,41,40,42,49,53,54	157585	26	50762	142763	106883	29	45	3.82	38.41	138.09	304.07	6	285681	30	3	1	1
1139	1,3,7,9,10,16,20,23,26,31,34,36,39,41,43,47,46,48,51	168650	27	90598	154404	88775	31	50	3.33	37.59	136.33	343.00	7	340681	30	3	1	1
1140	1,3,7,9,10,16,20,23,26,31,34,36,39,41,43,47,46,48,52,53,54	165776	27	79018	151530	96009	29	49	3.45	38.00	136.33	334.31	6	309682	30	3	1	1
1141	1,3,7,9,10,16,20,23,26,31,34,36,39,41,43,47,49,53,54	157601	28	50818	143354	107474	29	45	3.82	38.41	138.90	304.21	6	285937	30	3	1	1
1142	1,3,7,9,10,16,20,23,26,31,34,36,39,41,43,50,54	156722	26	50187	142475	106595	29	46	3.45	40.31	139.98	297.62	5	283163	30	3	1	1
1143	1,3,7,9,10,16,20,23,26,31,34,36,39,44,55	148497	21	61553	141048	105168	28	41	3.33	39.48	139.37	293.47	5	279138	30	3	1	1
1144	1,3,7,9,10,16,20,23,26,31,34,36,39,45,55	163481	25	88873	148622	98551	33	46	3.73	43.83	159.43	312.73	5	335140	30	3	1	1
1145	1,3,7,9,10,16,20,23,26,31,34,38,40,42,46,48,51	157236	23	53844	151685	106160	32	47	3.49	38.76	86.97	370.87	7	274265	30	3	1	6
1146	1,3,7,9,10,16,20,23,26,31,34,38,40,42,46,48,52,53,54	154361	23	42264	148811	113394	30	46	3.61	39.16	86.97	362.18	6	243266	30	3	1	6
1147	1,3,7,9,10,16,20,23,26,31,34,38,40,42,47,50,54	146570	24	14696	141020	125243	32	43	3.61	41.48	92.70	327.10	5	221800	30	3	1	6
1148	1,3,7,9,10,16,20,23,26,31,34,38,40,42,49,53,54	146186	23	14064	140636	124859	30	42	3.98	39.57	89.54	332.08	6	219521	30	3	1	6
1149	1,3,7,9,10,16,20,23,26,31,34,38,41,44,55	150693	20	38450	138921	123144	29	42	3.49	40.64	90.82	340.02	5	253056	30	3	1	6
1150	1,3,7,9,10,16,20,23,26,31,34,38,41,45,55	165676	24	65769	146494	116527	34	47	3.89	44.99	110.88	359.27	5	309058	30	3	1	6
1151	1,3,7,9,10,16,20,23,26,31,34,38,43,47,46,48,51	157252	22	53900	152277	106751	32	47	3.49	38.76	87.78	371.01	7	274521	30	3	1	6
1152	1,3,7,9,10,16,20,23,26,31,34,38,43,47,46,48,52,53,54	154377	22	42320	149402	113985	30	46	3.61	39.16	87.78	362.32	6	243522	30	3	1	6
1153	1,3,7,9,10,16,20,23,26,31,34,38,43,47,49,53,54	146202	23	14120	141227	125450	30	42	3.98	39.57	90.35	332.22	6	219777	30	3	1	6
1154	1,3,7,9,10,16,20,23,26,31,34,38,43,50,54	145323	21	13489	140348	124571	30	43	3.61	41.48	91.43	325.63	5	217003	30	3	1	6
1155	1,3,7,9,10,16,20,23,26,33,37,40,41,44,55	150919	18	38612	138986	108669	30	43	3.23	38.58	90.96	340.68	5	255727	30	3	1	1
1156	1,3,7,9,10,16,20,23,26,33,37,40,41,45,55	165903	22	65931	146559	102052	35	48	3.63	42.93	111.01	359.93	5	311730	30	3	1	1
1157	1,3,7,9,10,16,20,23,26,33,37,40,43,47,46,48,51	157478	22	54062	152342	92276	33	48	3.23	36.70	87.91	371.52	7	277192	30	3	1	1
1158	1,3,7,9,10,16,20,23,26,33,37,40,43,47,46,48,52,53,54	154604	22	42482	149467	99510	31	47	3.35	37.10	87.91	362.83	6	246193	30	3	1	1
1159	1,3,7,9,10,16,20,23,26,33,37,40,43,47,49,53,54	146429	23	14282	141292	110975	31	43	3.72	37.51	90.49	332.73	6	222448	30	3	1	1
1160	1,3,7,9,10,16,20,23,26,33,37,40,43,50,54	145549	21	13651	140413	110096	31	44	3.35	39.42	91.57	326.14	5	219674	30	3	1	1
1161	1,3,7,9,10,16,20,23,26,33,37,42,46,48,51	156312	19	52855	151750	91684	31	48	3.23	36.70	87.10	370.52	7	272476	30	3	1	1
1162	1,3,7,9,10,16,20,23,26,33,37,42,46,48,52,53,54	153437	19	41275	148876	98919	29	47	3.35	37.10	87.10	361.83	6	241477	30	3	1	1
1163	1,3,7,9,10,16,20,23,26,33,37,42,47,50,54	145646	20	13707	141085	110768	31	44	3.35	39.42	92.83	326.75	5	220010	30	3	1	1
1164	1,3,7,9,10,16,20,23,26,33,37,42,49,53,54	145262	19	13076	140701	110384	29	43	3.72	37.51	89.67	331.73	6	217732	30	3	1	1
1165	1,3,7,9,10,16,20,23,27,28,31,30,32,46,47,50,54	167874	27	67356	139215	112675	35	53	2.93	43.69	114.98	357.01	5	352825	41	3	0	5
1166	1,3,7,9,10,16,20,23,27,28,31,30,32,46,49,53,54	167490	26	66725	138831	112291	33	52	3.30	41.78	111.81	361.41	6	350546	41	3	0	5
1167	1,3,7,9,10,16,20,23,27,28,31,30,32,48,51	163082	24	91047	134423	85988	35	55	2.81	40.97	109.24	347.56	5	383029	41	3	0	5
1168	1,3,7,9,10,16,20,23,27,28,31,30,32,48,52,53,54	160208	24	79467	131549	93222	33	54	2.93	41.37	109.24	338.87	4	352030	41	3	0	5
1169	1,3,7,9,10,16,20,23,27,28,31,33,37,40,41,44,55	151230	20	37292	139186	111435	30	43	3.23	37.42	100.10	333.64	5	253565	30	3	0	1
1170	1,3,7,9,10,16,20,23,27,28,31,33,37,40,41,45,55	166214	24	64612	146759	104818	35	48	3.63	41.77	120.15	352.90	5	309567	30	3	0	1
1171	1,3,7,9,10,16,20,23,27,28,31,33,37,40,43,47,46,48,51	157789	24	52743	152542	95042	33	48	3.23	35.54	97.06	364.48	7	275030	30	3	0	1
1172	1,3,7,9,10,16,20,23,27,28,31,33,37,40,43,47,46,48,52,53,54	154915	24	41162	149667	102276	31	47	3.35	35.94	97.06	355.79	6	244031	30	3	0	1
1173	1,3,7,9,10,16,20,23,27,28,31,33,37,40,43,47,49,53,54	146740	25	12963	141492	113741	31	43	3.72	36.35	99.63	325.69	6	220286	30	3	0	1

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
1174	1,3,7,9,10,16,20,23,27,28,31,33,37,40,43,50,54	145860	23	12331	140613	112862	31	44	3.35	38.26	100.71	319.10	5	217512	30	3	0	1
1175	1,3,7,9,10,16,20,23,27,28,31,33,37,42,46,48,51	156623	21	51536	151950	94451	31	48	3.23	35.54	96.24	363.48	7	270314	30	3	0	1
1176	1,3,7,9,10,16,20,23,27,28,31,33,37,42,46,48,52,53,54	153748	21	39956	149076	101685	29	47	3.35	35.94	96.24	354.79	6	239314	30	3	0	1
1177	1,3,7,9,10,16,20,23,27,28,31,33,37,42,47,50,54	145957	22	12388	141285	113534	31	44	3.35	38.26	101.98	319.71	5	217848	30	3	0	1
1178	1,3,7,9,10,16,20,23,27,28,31,33,37,42,49,53,54	145573	21	11756	140901	113150	29	43	3.72	36.35	98.82	324.69	6	215569	30	3	0	1
1179	1,3,7,9,10,16,20,23,27,28,34,35,37,40,41,44,55	150980	20	37492	139348	116251	30	42	3.23	38.41	99.06	332.95	5	250718	30	3	0	1
1180	1,3,7,9,10,16,20,23,27,28,34,35,37,40,41,45,55	165963	24	64811	146922	109635	35	47	3.63	42.76	119.11	352.21	5	306720	30	3	0	1
1181	1,3,7,9,10,16,20,23,27,28,34,35,37,40,43,47,46,48,51	157539	24	52942	152704	99859	33	47	3.23	36.53	96.01	363.79	7	272183	30	3	0	1
1182	1,3,7,9,10,16,20,23,27,28,34,35,37,40,43,47,46,48,52,53,54	154664	24	41362	149830	107093	31	46	3.35	36.93	96.01	355.10	6	241184	30	3	0	1
1183	1,3,7,9,10,16,20,23,27,28,34,35,37,40,43,47,49,53,54	146489	25	13162	141655	118558	31	42	3.72	37.34	98.59	325.00	6	217439	30	3	0	1
1184	1,3,7,9,10,16,20,23,27,28,34,35,37,40,43,50,54	145610	23	12531	140776	117679	31	43	3.35	39.25	99.67	318.41	5	214665	30	3	0	1
1185	1,3,7,9,10,16,20,23,27,28,34,35,37,42,46,48,51	156372	21	51735	152113	99267	31	47	3.23	36.53	95.20	362.79	7	267467	30	3	0	1
1186	1,3,7,9,10,16,20,23,27,28,34,35,37,42,46,48,52,53,54	153498	21	40155	149239	106501	29	46	3.35	36.93	95.20	354.10	6	236468	30	3	0	1
1187	1,3,7,9,10,16,20,23,27,28,34,35,37,42,47,50,54	145707	22	12587	141447	118351	31	43	3.35	39.25	100.93	319.02	5	215001	30	3	0	1
1188	1,3,7,9,10,16,20,23,27,28,34,35,37,42,49,53,54	145323	21	11956	141063	117967	29	42	3.72	37.34	97.77	324.00	6	212722	30	3	0	1
1189	1,3,7,9,10,16,20,23,27,28,34,36,39,41,40,42,46,48,51	168119	24	88395	154013	90950	31	50	3.33	36.43	144.04	333.70	7	334130	30	3	0	1
1190	1,3,7,9,10,16,20,23,27,28,34,36,39,41,40,42,46,48,52,53,54	165244	24	76815	151139	98184	29	49	3.45	36.83	144.04	325.01	6	303131	30	3	0	1
1191	1,3,7,9,10,16,20,23,27,28,34,36,39,41,40,42,47,50,54	157453	25	49247	143347	110033	31	46	3.45	39.15	149.77	289.93	5	281664	30	3	0	1
1192	1,3,7,9,10,16,20,23,27,28,34,36,39,41,40,42,49,53,54	157069	24	48616	142963	109649	29	45	3.82	37.24	146.61	294.91	6	279385	30	3	0	1
1193	1,3,7,9,10,16,20,23,27,28,34,36,39,41,43,47,46,48,51	168135	25	88452	154604	91541	31	50	3.33	36.43	144.85	333.84	7	334385	30	3	0	1
1194	1,3,7,9,10,16,20,23,27,28,34,36,39,41,43,47,46,48,52,53,54	165261	25	76872	151730	98775	29	49	3.45	36.83	144.85	325.15	6	303386	30	3	0	1
1195	1,3,7,9,10,16,20,23,27,28,34,36,39,41,43,47,49,53,54	157085	26	48672	143555	110240	29	45	3.82	37.24	147.43	295.05	6	279641	30	3	0	1
1196	1,3,7,9,10,16,20,23,27,28,34,36,39,41,43,50,54	156206	24	48040	142675	109361	29	46	3.45	39.15	148.51	288.46	5	276867	30	3	0	1
1197	1,3,7,9,10,16,20,23,27,28,34,36,39,44,55	147982	19	59407	141248	107934	28	41	3.33	38.32	147.90	284.31	5	272842	30	3	0	1
1198	1,3,7,9,10,16,20,23,27,28,34,36,39,45,55	162966	23	86727	148822	101317	33	46	3.73	42.66	167.95	303.57	5	328844	30	3	0	1
1199	1,3,7,9,10,16,20,23,27,28,34,38,40,42,46,48,51	156720	21	51698	151886	108926	32	47	3.49	37.59	95.49	361.71	7	267970	30	3	0	6
1200	1,3,7,9,10,16,20,23,27,28,34,38,40,42,46,48,52,53,54	153846	21	40117	149011	116160	30	46	3.61	37.99	95.49	353.02	6	236971	30	3	0	6
1201	1,3,7,9,10,16,20,23,27,28,34,38,40,42,47,50,54	146054	22	12550	141220	128009	32	43	3.61	40.31	101.23	317.94	5	215504	30	3	0	6
1202	1,3,7,9,10,16,20,23,27,28,34,38,40,42,49,53,54	145670	21	11918	140836	127625	30	42	3.98	38.40	98.07	322.92	6	213225	30	3	0	6
1203	1,3,7,9,10,16,20,23,27,28,34,38,41,44,55	150177	18	36304	139121	125910	29	42	3.49	39.48	99.35	330.86	5	246760	30	3	0	6
1204	1,3,7,9,10,16,20,23,27,28,34,38,41,45,55	165161	22	63623	146695	119293	34	47	3.89	43.82	119.40	350.11	5	302763	30	3	0	6
1205	1,3,7,9,10,16,20,23,27,28,34,38,43,47,46,48,51	156736	20	51754	152477	109517	32	47	3.49	37.59	96.31	361.86	7	268226	30	3	0	6
1206	1,3,7,9,10,16,20,23,27,28,34,38,43,47,46,48,52,53,54	153862	20	40174	149603	116751	30	46	3.61	37.99	96.31	353.17	6	237226	30	3	0	6
1207	1,3,7,9,10,16,20,23,27,28,34,38,43,47,49,53,54	145686	21	11974	141427	128216	30	42	3.98	38.40	98.88	323.07	6	213481	30	3	0	6
1208	1,3,7,9,10,16,20,23,27,28,34,38,43,50,54	144807	19	11343	140548	127337	30	43	3.61	40.31	99.96	316.47	5	210707	30	3	0	6
1209	1,3,7,9,8,14,30,31,34,35,37,40,41,44,55	163392	16	106133	140466	113880	31	52	2.77	28.08	112.30	367.97	6	355544	13	3	0	1
1210	1,3,7,9,8,14,30,31,34,35,37,40,41,45,55	178376	20	133453	148040	107264	36	57	3.18	32.43	132.35	387.23	6	411546	13	3	0	1
1211	1,3,7,9,8,14,30,31,34,35,37,40,43,47,46,48,51	169951	20	121584	153822	97487	34	57	2.77	26.20	109.25	398.82	8	377009	13	3	0	1
1212	1,3,7,9,8,14,30,31,34,35,37,40,43,47,46,48,52,53,54	167076	20	110004	150948	104722	32	56	2.90	26.60	109.25	390.13	7	346010	13	3	0	1
1213	1,3,7,9,8,14,30,31,34,35,37,40,43,47,49,53,54	158901	21	81804	142773	116187	32	52	3.26	27.01	111.82	360.03	7	322264	13	3	0	1
1214	1,3,7,9,8,14,30,31,34,35,37,40,43,50,54	158022	19	81172	141893	115307	32	53	2.90	28.92	112.90	353.43	6	319490	13	3	0	1
1215	1,3,7,9,8,14,30,31,34,35,37,42,46,48,51	168784	17	120377	153231	96896	32	57	2.77	26.20	108.44	397.82	8	372292	13	3	0	1
1216	1,3,7,9,8,14,30,31,34,35,37,42,46,48,52,53,54	165910	17	108797	150356	104130	30	56	2.90	26.60	108.44	389.13	7	341293	13	3	0	1
1217	1,3,7,9,8,14,30,31,34,35,37,42,47,50,54	158119	18	81229	142565	115979	32	53	2.90	28.92	114.17	354.05	6	319827	13	3	0	1
1218	1,3,7,9,8,14,30,31,34,35,37,42,49,53,54	157735	17	80597	142181	115595	30	52	3.26	27.01	111.01	359.03	7	317548	13	3	0	1
1219	1,3,7,9,8,14,30,31,34,36,39,41,40,42,46,48,51	180531	20	157037	155131	88578	32	60	2.87	26.10	157.28	368.73	8	438955	13	3	0	1
1220	1,3,7,9,8,14,30,31,34,36,39,41,40,42,46,48,52,53,54	177656	20	145457	152256	95813	30	59	3.00	26.50	157.28	360.04	7	407956	13	3	0	1
1221	1,3,7,9,8,14,30,31,34,36,39,41,40,42,47,50,54	169865	21	117889	144465	107662	32	56	3.00	28.82	163.01	324.95	6	386490	13	3	0	1
1222	1,3,7,9,8,14,30,31,34,36,39,41,40,42,49,53,54	169481	20	117257	144081	107278	30	55	3.36	26.91	159.85	329.94	7	384211	13	3	0	1
1223	1,3,7,9,8,14,30,31,34,36,39,41,43,47,46,48,51	180547	21	157093	155722	89170	32	60	2.87	26.10	158.09	368.87	8	439211	13	3	0	1
1224	1,3,7,9,8,14,30,31,34,36,39,41,43,47,46,48,52,53,54	177673	21	145513	152848	96404	30	59	3.00	26.50	158.09	360.18	7	408212	13	3	0	1

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
1225	1,3,7,9,8,14,30,31,34,36,39,41,43,47,49,53,54	169497	22	117314	144672	107869	30	55	3.36	26.91	160.66	330.08	7	384467	13	3	0	1
1226	1,3,7,9,8,14,30,31,34,36,39,41,43,50,54	168618	20	116682	143793	106990	30	56	3.00	28.82	161.74	323.48	6	381693	13	3	0	1
1227	1,3,7,9,8,14,30,31,34,36,39,44,55	160394	15	128049	142366	105562	29	51	2.87	27.98	161.14	319.34	6	377668	13	3	0	1
1228	1,3,7,9,8,14,30,31,34,36,39,45,55	175378	19	155368	149940	98946	34	56	3.28	32.33	181.19	338.59	6	433670	13	3	0	1
1229	1,3,7,9,8,14,30,31,34,38,40,42,46,48,51	169132	17	120339	153003	106555	33	57	3.03	27.26	108.73	396.74	8	372795	13	3	0	6
1230	1,3,7,9,8,14,30,31,34,38,40,42,46,48,52,53,54	166258	17	108759	150129	113789	31	56	3.15	27.66	108.73	388.05	7	341796	13	3	0	6
1231	1,3,7,9,8,14,30,31,34,38,40,42,47,50,54	158466	18	81191	142338	125638	33	53	3.15	29.98	114.46	352.96	6	320330	13	3	0	6
1232	1,3,7,9,8,14,30,31,34,38,40,42,49,53,54	158082	17	80559	141954	125254	31	52	3.52	28.07	111.30	357.95	7	318051	13	3	0	6
1233	1,3,7,9,8,14,30,31,34,38,41,44,55	162589	14	104945	140239	123539	30	52	3.03	29.15	112.59	365.88	6	351586	13	3	0	6
1234	1,3,7,9,8,14,30,31,34,38,41,45,55	177573	18	132265	147812	116922	35	57	3.44	33.49	132.64	385.14	6	407588	13	3	0	6
1235	1,3,7,9,8,14,30,31,34,38,43,47,46,48,51	169148	16	120396	153595	107146	33	57	3.03	27.26	109.54	396.88	8	373051	13	3	0	6
1236	1,3,7,9,8,14,30,31,34,38,43,47,46,48,52,53,54	166274	16	108815	150720	114380	31	56	3.15	27.66	109.54	388.19	7	342052	13	3	0	6
1237	1,3,7,9,8,14,30,31,34,38,43,47,49,53,54	158099	17	80616	142545	125845	31	52	3.52	28.07	112.12	358.09	7	318307	13	3	0	6
1238	1,3,7,9,8,14,30,31,34,38,43,50,54	157219	15	79984	141666	124966	31	53	3.15	29.98	113.20	351.50	6	315533	13	3	0	6
1239	1,3,7,9,8,14,30,33,37,40,41,44,55	162816	14	105107	140303	109063	31	53	2.77	27.09	112.72	366.49	6	354257	13	3	0	1
1240	1,3,7,9,8,14,30,33,37,40,41,45,55	177800	18	132426	147877	102447	36	58	3.18	31.44	132.77	385.75	6	410260	13	3	0	1
1241	1,3,7,9,8,14,30,33,37,40,43,47,46,48,51	169375	18	120557	153659	92671	34	58	2.77	25.21	109.68	397.33	8	375723	13	3	0	1
1242	1,3,7,9,8,14,30,33,37,40,43,47,46,48,52,53,54	166500	18	108977	150785	99905	32	57	2.90	25.61	109.68	388.64	7	344724	13	3	0	1
1243	1,3,7,9,8,14,30,33,37,40,43,47,49,53,54	158325	19	80778	142610	111370	32	53	3.26	26.02	112.25	358.54	7	320978	13	3	0	1
1244	1,3,7,9,8,14,30,33,37,40,43,50,54	157446	17	80146	141731	110491	32	54	2.90	27.93	113.33	351.95	6	318204	13	3	0	1
1245	1,3,7,9,8,14,30,33,37,42,46,48,51	168208	15	119351	153068	92079	32	58	2.77	25.21	108.86	396.33	8	371006	13	3	0	1
1246	1,3,7,9,8,14,30,33,37,42,46,48,52,53,54	165334	15	107771	150194	99314	30	57	2.90	25.61	108.86	387.64	7	340007	13	3	0	1
1247	1,3,7,9,8,14,30,33,37,42,47,50,54	157543	16	80203	142402	111163	32	54	2.90	27.93	114.60	352.56	6	318541	13	3	0	1
1248	1,3,7,9,8,14,30,33,37,42,49,53,54	157159	15	79571	142019	110779	30	53	3.26	26.02	111.44	357.54	7	316262	13	3	0	1
1249	1,3,7,9,8,14,32,46,47,50,54	171804	19	127516	140332	110304	34	61	2.48	33.35	127.59	364.89	6	415482	21	3	0	5
1250	1,3,7,9,8,14,32,46,49,53,54	171420	18	126884	139948	109920	32	60	2.84	31.45	124.43	369.29	7	413203	21	3	0	5
1251	1,3,7,9,8,14,32,48,51	167013	16	151207	135541	83617	34	63	2.35	30.63	121.86	355.45	6	445686	21	3	0	5
1252	1,3,7,9,8,14,32,48,52,53,54	164138	16	139627	132666	90851	32	62	2.48	31.04	121.86	346.76	5	414687	21	3	0	5
1253	1,6,10,12,14,30,31,34,35,37,40,41,44,55	164206	14	79518	149298	120344	33	49	2.28	34.96	120.61	356.42	5	324753	23.5	4	0	1
1254	1,6,10,12,14,30,31,34,35,37,40,41,45,55	179190	18	106837	156872	113727	38	54	2.68	39.31	140.66	375.67	5	380755	23.5	4	0	1
1255	1,6,10,12,14,30,31,34,35,37,40,43,47,46,48,51	170766	18	94968	162654	103951	36	54	2.28	33.08	117.56	387.26	7	346218	23.5	4	0	1
1256	1,6,10,12,14,30,31,34,35,37,40,43,47,46,48,52,53,54	167891	18	83388	159780	111185	34	53	2.40	33.48	117.56	378.57	6	315219	23.5	4	0	1
1257	1,6,10,12,14,30,31,34,35,37,40,43,47,49,53,54	159716	19	55188	151605	122650	34	49	2.77	33.89	120.13	348.47	6	291474	23.5	4	0	1
1258	1,6,10,12,14,30,31,34,35,37,40,43,50,54	158837	17	54557	150726	121771	34	50	2.40	35.80	121.22	341.88	5	288700	23.5	4	0	1
1259	1,6,10,12,14,30,31,34,35,37,42,46,48,51	169599	15	93761	162063	103360	34	54	2.28	33.08	116.75	386.26	7	341502	23.5	4	0	1
1260	1,6,10,12,14,30,31,34,35,37,42,46,48,52,53,54	166725	15	82181	159189	110594	32	53	2.40	33.48	116.75	377.57	6	310503	23.5	4	0	1
1261	1,6,10,12,14,30,31,34,35,37,42,47,50,54	158933	16	54613	151397	122443	34	50	2.40	35.80	122.48	342.49	5	289036	23.5	4	0	1
1262	1,6,10,12,14,30,31,34,35,37,42,49,53,54	158549	15	53982	151013	122059	32	49	2.77	33.89	119.32	347.47	6	286758	23.5	4	0	1
1263	1,6,10,12,14,30,31,34,36,39,41,40,42,46,48,51	181346	18	130421	163963	95042	34	57	2.38	32.98	165.59	357.17	7	408165	23.5	4	0	1
1264	1,6,10,12,14,30,31,34,36,39,41,40,42,46,48,52,53,54	178471	18	118841	161089	102276	32	56	2.50	33.38	165.59	348.48	6	377166	23.5	4	0	1
1265	1,6,10,12,14,30,31,34,36,39,41,40,42,47,50,54	170680	19	91273	153297	114125	34	53	2.50	35.70	171.32	313.40	5	355699	23.5	4	0	1
1266	1,6,10,12,14,30,31,34,36,39,41,40,42,49,53,54	170296	18	90642	152913	113741	32	52	2.87	33.79	168.16	318.38	6	353420	23.5	4	0	1
1267	1,6,10,12,14,30,31,34,36,39,41,43,47,46,48,51	181362	19	130478	164554	95633	34	57	2.38	32.98	166.40	357.31	7	408421	23.5	4	0	1
1268	1,6,10,12,14,30,31,34,36,39,41,43,47,46,48,52,53,54	178487	19	118898	161680	102867	32	56	2.50	33.38	166.40	348.62	6	377422	23.5	4	0	1
1269	1,6,10,12,14,30,31,34,36,39,41,43,47,49,53,54	170312	20	90698	153505	114332	32	52	2.87	33.79	168.97	318.52	6	353676	23.5	4	0	1
1270	1,6,10,12,14,30,31,34,36,39,41,43,50,54	169433	18	90066	152625	113453	32	53	2.50	35.70	170.06	311.93	5	350902	23.5	4	0	1
1271	1,6,10,12,14,30,31,34,36,39,44,55	161209	13	101433	151198	112026	31	48	2.38	34.86	169.45	307.78	5	346877	23.5	4	0	1
1272	1,6,10,12,14,30,31,34,36,39,45,55	176193	17	128753	158772	105410	36	53	2.78	39.21	189.50	327.04	5	402880	23.5	4	0	1
1273	1,6,10,12,14,30,31,34,38,40,42,46,48,51	169947	15	93724	161836	113018	35	54	2.54	34.14	117.04	385.18	7	342005	23.5	4	0	6
1274	1,6,10,12,14,30,31,34,38,40,42,46,48,52,53,54	167072	15	82143	158961	120252	33	53	2.66	34.54	117.04	376.49	6	311006	23.5	4	0	6
1275	1,6,10,12,14,30,31,34,38,40,42,47,50,54	159281	16	54576	151170	132101	35	50	2.66	36.86	122.77	341.41	5	289539	23.5	4	0	6

Table F-1: Route Data for All Routes

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
1276	1,6,10,12,14,30,31,34,38,40,42,49,53,54	158897	15	53944	150786	131717	33	49	3.03	34.95	119.61	346.39	6	287261	23.5	4	0	6
1277	1,6,10,12,14,30,31,34,38,41,44,55	163404	12	78330	149071	130002	32	49	2.54	36.02	120.90	354.33	5	320796	23.5	4	0	6
1278	1,6,10,12,14,30,31,34,38,41,45,55	178388	16	105649	156645	123386	37	54	2.94	40.37	140.95	373.58	5	376798	23.5	4	0	6
1279	1,6,10,12,14,30,31,34,38,43,47,46,48,51	169963	14	93780	162427	113609	35	54	2.54	34.14	117.85	385.32	7	342261	23.5	4	0	6
1280	1,6,10,12,14,30,31,34,38,43,47,46,48,52,53,54	167089	14	82200	159553	120843	33	53	2.66	34.54	117.85	376.63	6	311262	23.5	4	0	6
1281	1,6,10,12,14,30,31,34,38,43,47,49,53,54	158913	15	54000	151377	132309	33	49	3.03	34.95	120.43	346.53	6	287516	23.5	4	0	6
1282	1,6,10,12,14,30,31,34,38,43,50,54	158034	13	53369	150498	131429	33	50	2.66	36.86	121.51	339.94	5	284742	23.5	4	0	6
1283	1,6,10,12,14,30,33,37,40,41,44,55	163630	12	78491	149136	115527	33	50	2.28	33.97	121.03	354.93	5	323467	23.5	4	0	1
1284	1,6,10,12,14,30,33,37,40,41,45,55	178614	16	105811	156709	108911	38	55	2.68	38.32	141.08	374.19	5	379469	23.5	4	0	1
1285	1,6,10,12,14,30,33,37,40,43,47,46,48,51	170190	16	93942	162492	99134	36	55	2.28	32.09	117.99	385.78	7	344932	23.5	4	0	1
1286	1,6,10,12,14,30,33,37,40,43,47,46,48,52,53,54	167315	16	82362	159617	106368	34	54	2.40	32.49	117.99	377.09	6	313933	23.5	4	0	1
1287	1,6,10,12,14,30,33,37,40,43,47,49,53,54	159140	17	54162	151442	117833	34	50	2.77	32.90	120.56	346.99	6	290188	23.5	4	0	1
1288	1,6,10,12,14,30,33,37,40,43,50,54	158261	15	53531	150563	116954	34	51	2.40	34.81	121.64	340.39	5	287414	23.5	4	0	1
1289	1,6,10,12,14,30,33,37,42,46,48,51	169023	13	92735	161900	98543	34	55	2.28	32.09	117.17	384.78	7	340216	23.5	4	0	1
1290	1,6,10,12,14,30,33,37,42,46,48,52,53,54	166149	13	81155	159026	105777	32	54	2.40	32.49	117.17	376.09	6	309217	23.5	4	0	1
1291	1,6,10,12,14,30,33,37,42,47,50,54	158357	14	53587	151235	117626	34	51	2.40	34.81	122.91	341.00	5	287750	23.5	4	0	1
1292	1,6,10,12,14,30,33,37,42,49,53,54	157973	13	52955	150851	117242	32	50	2.77	32.90	119.75	345.99	6	285471	23.5	4	0	1
1293	1,6,10,12,14,32,46,47,50,54	172619	17	100901	149165	116767	36	58	1.98	40.23	135.91	353.34	5	384691	31.5	4	0	5
1294	1,6,10,12,14,32,46,49,53,54	172235	16	100269	148781	116383	34	57	2.35	38.32	132.74	357.73	6	382413	31.5	4	0	5
1295	1,6,10,12,14,32,48,51	167827	14	124591	144373	90080	36	60	1.86	37.51	130.17	343.89	5	414895	31.5	4	0	5
1296	1,6,10,12,14,32,48,52,53,54	164953	14	113011	141499	97314	34	59	1.98	37.91	130.17	335.20	4	383896	31.5	4	0	5
1297	1,6,10,13,17,18,20,23,26,30,32,46,47,50,54	167806	27	68495	139380	106028	35	53	2.09	44.57	106.17	366.74	5	354246	29.5	4	1	5
1298	1,6,10,13,17,18,20,23,26,30,32,46,49,53,54	167422	26	67863	138996	105644	33	52	2.46	42.66	103.01	371.14	6	351967	29.5	4	1	5
1299	1,6,10,13,17,18,20,23,26,30,32,48,51	163014	24	92186	134588	79341	35	55	1.96	41.85	100.44	357.29	5	384450	29.5	4	1	5
1300	1,6,10,13,17,18,20,23,26,30,32,48,52,53,54	160140	24	80605	131714	86575	33	54	2.09	42.25	100.44	348.60	4	353451	29.5	4	1	5
1301	1,6,10,13,17,18,20,23,26,31,34,35,37,40,41,44,55	151738	22	39457	139513	109604	30	42	2.38	39.29	90.87	344.85	5	256272	18.5	4	1	1
1302	1,6,10,13,17,18,20,23,26,31,34,35,37,40,41,45,55	166722	26	66776	147087	102988	35	47	2.79	43.64	110.93	364.11	5	312274	18.5	4	1	1
1303	1,6,10,13,17,18,20,23,26,31,34,35,37,40,43,47,46,48,51	158297	26	54907	152869	93212	33	47	2.38	37.41	87.83	375.70	7	277737	18.5	4	1	1
1304	1,6,10,13,17,18,20,23,26,31,34,35,37,40,43,47,46,48,52,53,54	155423	26	43327	149995	100446	31	46	2.51	37.81	87.83	367.01	6	246738	18.5	4	1	1
1305	1,6,10,13,17,18,20,23,26,31,34,35,37,40,43,47,49,53,54	147247	27	15127	141820	111911	31	42	2.87	38.22	90.40	336.91	6	222993	18.5	4	1	1
1306	1,6,10,13,17,18,20,23,26,31,34,35,37,40,43,50,54	146368	25	14496	140941	111032	31	43	2.51	40.13	91.48	330.31	5	220219	18.5	4	1	1
1307	1,6,10,13,17,18,20,23,26,31,34,35,37,42,46,48,51	157131	23	53700	152278	92620	31	47	2.38	37.41	87.01	374.70	7	273021	18.5	4	1	1
1308	1,6,10,13,17,18,20,23,26,31,34,35,37,42,46,48,52,53,54	154256	23	42120	149404	99854	29	46	2.51	37.81	87.01	366.01	6	242022	18.5	4	1	1
1309	1,6,10,13,17,18,20,23,26,31,34,35,37,42,47,50,54	146465	24	14552	141612	111703	31	43	2.51	40.13	92.75	330.93	5	220555	18.5	4	1	1
1310	1,6,10,13,17,18,20,23,26,31,34,35,37,42,49,53,54	146081	23	13921	141228	111319	29	42	2.87	38.22	89.59	335.91	6	218277	18.5	4	1	1
1311	1,6,10,13,17,18,20,23,26,31,34,36,39,41,40,42,46,48,51	168877	26	90360	154178	84303	31	50	2.48	37.31	135.85	345.61	7	339684	18.5	4	1	1
1312	1,6,10,13,17,18,20,23,26,31,34,36,39,41,40,42,46,48,52,53,54	166003	26	78780	151304	91537	29	49	2.61	37.71	135.85	336.91	6	308685	18.5	4	1	1
1313	1,6,10,13,17,18,20,23,26,31,34,36,39,41,40,42,47,50,54	158211	27	51212	143512	103386	31	46	2.61	40.03	141.59	301.83	5	287218	18.5	4	1	1
1314	1,6,10,13,17,18,20,23,26,31,34,36,39,41,40,42,49,53,54	157827	26	50581	143128	103002	29	45	2.98	38.12	138.43	306.82	6	284939	18.5	4	1	1
1315	1,6,10,13,17,18,20,23,26,31,34,36,39,41,43,47,46,48,51	168893	27	90417	154769	84894	31	50	2.48	37.31	136.67	345.75	7	339940	18.5	4	1	1
1316	1,6,10,13,17,18,20,23,26,31,34,36,39,41,43,47,46,48,52,53,54	166019	27	78837	151895	92128	29	49	2.61	37.71	136.67	337.06	6	308941	18.5	4	1	1
1317	1,6,10,13,17,18,20,23,26,31,34,36,39,41,43,47,49,53,54	157844	28	50637	143720	103593	29	45	2.98	38.12	139.24	306.96	6	285195	18.5	4	1	1
1318	1,6,10,13,17,18,20,23,26,31,34,36,39,41,43,50,54	156964	26	50005	142840	102714	29	46	2.61	40.03	140.32	300.36	5	282421	18.5	4	1	1
1319	1,6,10,13,17,18,20,23,26,31,34,36,39,44,55	148740	21	61372	141413	101287	28	41	2.48	39.20	139.71	296.22	5	278396	18.5	4	1	1
1320	1,6,10,13,17,18,20,23,26,31,34,36,39,45,55	163724	25	88692	148987	94670	33	46	2.89	43.54	159.77	315.47	5	334399	18.5	4	1	1
1321	1,6,10,13,17,18,20,23,26,31,34,38,40,42,46,48,51	157478	23	53663	152051	102279	32	47	2.64	38.47	87.31	373.62	7	273524	18.5	4	1	6
1322	1,6,10,13,17,18,20,23,26,31,34,38,40,42,46,48,52,53,54	154604	23	42082	149176	109513	30	46	2.77	38.87	87.31	364.93	6	242525	18.5	4	1	6
1323	1,6,10,13,17,18,20,23,26,31,34,38,40,42,47,50,54	146813	24	14514	141385	121362	32	43	2.77	41.19	93.04	329.84	5	221058	18.5	4	1	6
1324	1,6,10,13,17,18,20,23,26,31,34,38,40,42,49,53,54	146429	23	13883	141001	120978	30	42	3.13	39.28	89.88	334.83	6	218780	18.5	4	1	6
1325	1,6,10,13,17,18,20,23,26,31,34,38,41,44,55	150935	20	38268	139286	119263	29	42	2.64	40.36	91.16	342.76	5	252315	18.5	4	1	6
1326	1,6,10,13,17,18,20,23,26,31,34,38,41,45,55	165919	24	65588	146860	112646	34	47	3.05	44.70	111.22	362.02	5	308317	18.5	4	1	6

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
1327	1,6,10,13,17,18,20,23,26,31,34,38,43,47,46,48,51	157494	22	53719	152642	102870	32	47	2.64	38.47	88.12	373.76	7	273780	18.5	4	1	6
1328	1,6,10,13,17,18,20,23,26,31,34,38,43,47,46,48,52,53,54	154620	22	42139	149768	110104	30	46	2.77	38.87	88.12	365.07	6	242781	18.5	4	1	6
1329	1,6,10,13,17,18,20,23,26,31,34,38,43,47,49,53,54	146445	23	13939	141592	121569	30	42	3.13	39.28	90.69	334.97	6	219035	18.5	4	1	6
1330	1,6,10,13,17,18,20,23,26,31,34,38,43,50,54	145566	21	13308	140713	120690	30	43	2.77	41.19	91.77	328.38	5	216261	18.5	4	1	6
1331	1,6,10,13,17,18,20,23,26,33,37,40,41,44,55	151162	18	38430	139351	104788	30	43	2.38	38.30	91.30	343.42	5	254986	18.5	4	1	1
1332	1,6,10,13,17,18,20,23,26,33,37,40,41,45,55	166146	22	65750	146924	98171	35	48	2.79	42.65	111.35	362.68	5	310988	18.5	4	1	1
1333	1,6,10,13,17,18,20,23,26,33,37,40,43,47,46,48,51	157721	22	53881	152707	88395	33	48	2.38	36.42	88.25	374.27	7	276451	18.5	4	1	1
1334	1,6,10,13,17,18,20,23,26,33,37,40,43,47,46,48,52,53,54	154847	22	42301	149832	95629	31	47	2.51	36.82	88.25	365.58	6	245452	18.5	4	1	1
1335	1,6,10,13,17,18,20,23,26,33,37,40,43,47,49,53,54	146671	23	14101	141657	107094	31	43	2.87	37.23	90.83	335.48	6	221707	18.5	4	1	1
1336	1,6,10,13,17,18,20,23,26,33,37,40,43,50,54	145792	21	13470	140778	106215	31	44	2.51	39.14	91.91	328.88	5	218933	18.5	4	1	1
1337	1,6,10,13,17,18,20,23,26,33,37,42,46,48,51	156555	19	52674	152115	87804	31	48	2.38	36.42	87.44	373.27	7	271735	18.5	4	1	1
1338	1,6,10,13,17,18,20,23,26,33,37,42,46,48,52,53,54	153680	19	41094	149241	95038	29	47	2.51	36.82	87.44	364.58	6	240736	18.5	4	1	1
1339	1,6,10,13,17,18,20,23,26,33,37,42,47,50,54	145889	20	13526	141450	106887	31	44	2.51	39.14	93.17	329.50	5	219269	18.5	4	1	1
1340	1,6,10,13,17,18,20,23,26,33,37,42,49,53,54	145505	19	12894	141066	106503	29	43	2.87	37.23	90.01	334.48	6	216990	18.5	4	1	1
1341	1,6,10,13,17,18,20,23,27,28,31,30,32,46,47,50,54	168117	27	67175	139580	108794	35	53	2.09	43.40	115.31	359.76	5	352084	29.5	4	0	5
1342	1,6,10,13,17,18,20,23,27,28,31,30,32,46,49,53,54	167733	26	66544	139196	108410	33	52	2.46	41.49	112.15	364.16	6	349805	29.5	4	0	5
1343	1,6,10,13,17,18,20,23,27,28,31,30,32,48,51	163325	24	90866	134788	82107	35	55	1.96	40.68	109.58	350.31	5	382288	29.5	4	0	5
1344	1,6,10,13,17,18,20,23,27,28,31,30,32,48,52,53,54	160451	24	79286	131914	89341	33	54	2.09	41.09	109.58	341.62	4	351289	29.5	4	0	5
1345	1,6,10,13,17,18,20,23,27,28,31,33,37,40,41,44,55	151473	20	37111	139551	107554	30	43	2.38	37.14	100.44	336.39	5	252824	18.5	4	0	1
1346	1,6,10,13,17,18,20,23,27,28,31,33,37,40,41,45,55	166457	24	64430	147125	100937	35	48	2.79	41.49	120.49	355.64	5	308826	18.5	4	0	1
1347	1,6,10,13,17,18,20,23,27,28,31,33,37,40,43,47,46,48,51	158032	24	52561	152907	91161	33	48	2.38	35.26	97.40	367.23	7	274289	18.5	4	0	1
1348	1,6,10,13,17,18,20,23,27,28,31,33,37,40,43,47,46,48,52,53,54	155158	24	40981	150033	98395	31	47	2.51	35.66	97.40	358.54	6	243290	18.5	4	0	1
1349	1,6,10,13,17,18,20,23,27,28,31,33,37,40,43,47,49,53,54	146982	25	12782	141857	109860	31	43	2.87	36.07	99.97	328.44	6	219544	18.5	4	0	1
1350	1,6,10,13,17,18,20,23,27,28,31,33,37,40,43,50,54	146103	23	12150	140978	108981	31	44	2.51	37.98	101.05	321.84	5	216770	18.5	4	0	1
1351	1,6,10,13,17,18,20,23,27,28,31,33,37,42,46,48,51	156866	21	51355	152316	90570	31	48	2.38	35.26	96.58	366.23	7	269572	18.5	4	0	1
1352	1,6,10,13,17,18,20,23,27,28,31,33,37,42,46,48,52,53,54	153991	21	39774	149441	97804	29	47	2.51	35.66	96.58	357.54	6	238573	18.5	4	0	1
1353	1,6,10,13,17,18,20,23,27,28,31,33,37,42,47,50,54	146200	22	12206	141650	109653	31	44	2.51	37.98	102.32	322.46	5	217107	18.5	4	0	1
1354	1,6,10,13,17,18,20,23,27,28,31,33,37,42,49,53,54	145816	21	11575	141266	109269	29	43	2.87	36.07	99.16	327.44	6	214828	18.5	4	0	1
1355	1,6,10,13,17,18,20,23,27,28,34,35,37,40,41,44,55	151222	20	37310	139714	112371	30	42	2.38	38.13	99.40	335.70	5	249977	18.5	4	0	1
1356	1,6,10,13,17,18,20,23,27,28,34,35,37,40,41,45,55	166206	24	64630	147287	105754	35	47	2.79	42.48	119.45	354.95	5	305979	18.5	4	0	1
1357	1,6,10,13,17,18,20,23,27,28,34,35,37,40,43,47,46,48,51	157781	24	52761	153070	95978	33	47	2.38	36.25	96.35	366.54	7	271442	18.5	4	0	1
1358	1,6,10,13,17,18,20,23,27,28,34,35,37,40,43,47,46,48,52,53,54	154907	24	41181	150195	103212	31	46	2.51	36.65	96.35	357.85	6	240443	18.5	4	0	1
1359	1,6,10,13,17,18,20,23,27,28,34,35,37,40,43,47,49,53,54	146732	25	12981	142020	114677	31	42	2.87	37.06	98.93	327.75	6	216697	18.5	4	0	1
1360	1,6,10,13,17,18,20,23,27,28,34,35,37,40,43,50,54	145853	23	12350	141141	113798	31	43	2.51	38.97	100.01	321.15	5	213923	18.5	4	0	1
1361	1,6,10,13,17,18,20,23,27,28,34,35,37,42,46,48,51	156615	21	51554	152478	95386	31	47	2.38	36.25	95.54	365.54	7	266725	18.5	4	0	1
1362	1,6,10,13,17,18,20,23,27,28,34,35,37,42,46,48,52,53,54	153741	21	39974	149604	102621	29	46	2.51	36.65	95.54	356.85	6	235726	18.5	4	0	1
1363	1,6,10,13,17,18,20,23,27,28,34,35,37,42,47,50,54	145949	22	12406	141813	114470	31	43	2.51	38.97	101.27	321.77	5	214260	18.5	4	0	1
1364	1,6,10,13,17,18,20,23,27,28,34,35,37,42,49,53,54	145565	21	11775	141429	114086	29	42	2.87	37.06	98.11	326.75	6	211981	18.5	4	0	1
1365	1,6,10,13,17,18,20,23,27,28,34,36,39,41,40,42,46,48,51	168361	24	88214	154378	87069	31	50	2.48	36.15	144.38	336.45	7	333388	18.5	4	0	1
1366	1,6,10,13,17,18,20,23,27,28,34,36,39,41,40,42,46,48,52,53,54	165487	24	76634	151504	94303	29	49	2.61	36.55	144.38	327.76	6	302389	18.5	4	0	1
1367	1,6,10,13,17,18,20,23,27,28,34,36,39,41,40,42,47,50,54	157696	25	49066	143712	106152	31	46	2.61	38.87	150.11	292.68	5	280923	18.5	4	0	1
1368	1,6,10,13,17,18,20,23,27,28,34,36,39,41,40,42,49,53,54	157312	24	48434	143328	105768	29	45	2.98	36.96	146.95	297.66	6	278644	18.5	4	0	1
1369	1,6,10,13,17,18,20,23,27,28,34,36,39,41,43,47,46,48,51	168378	25	88271	154969	87660	31	50	2.48	36.15	145.19	336.59	7	333644	18.5	4	0	1
1370	1,6,10,13,17,18,20,23,27,28,34,36,39,41,43,47,46,48,52,53,54	165503	25	76690	152095	94894	29	49	2.61	36.55	145.19	327.90	6	302645	18.5	4	0	1
1371	1,6,10,13,17,18,20,23,27,28,34,36,39,41,43,47,49,53,54	157328	26	48491	143920	106359	29	45	2.98	36.96	147.77	297.80	6	278900	18.5	4	0	1
1372	1,6,10,13,17,18,20,23,27,28,34,36,39,41,43,50,54	156449	24	47859	143041	105480	29	46	2.61	38.87	148.85	291.20	5	276126	18.5	4	0	1
1373	1,6,10,13,17,18,20,23,27,28,34,36,39,44,55	148225	19	59226	141613	104053	28	41	2.48	38.03	148.24	287.06	5	272101	18.5	4	0	1
1374	1,6,10,13,17,18,20,23,27,28,34,36,39,45,55	163209	23	86546	149187	97436	33	46	2.89	42.38	168.29	306.31	5	328103	18.5	4	0	1
1375	1,6,10,13,17,18,20,23,27,28,34,38,40,42,46,48,51	156963	21	51516	152251	105045	32	47	2.64	37.31	95.83	364.46	7	267228	18.5	4	0	6
1376	1,6,10,13,17,18,20,23,27,28,34,38,40,42,46,48,52,53,54	154088	21	39936	149376	112279	30	46	2.77	37.71	95.83	355.77	6	236229	18.5	4	0	6
1377	1,6,10,13,17,18,20,23,27,28,34,38,40,42,47,50,54	146297	22	12368	141585	124128	32	43	2.77	40.03	101.57	320.69	5	214763	18.5	4	0	6

Table F-1: Route Data for All Routes

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
1378	1,6,10,13,17,18,20,23,27,28,34,38,40,42,49,53,54	145913	21	11737	141201	123744	30	42	3.13	38.12	98.41	325.67	6	212484	18.5	4	0	6
1379	1,6,10,13,17,18,20,23,27,28,34,38,41,44,55	150420	18	36122	139486	122029	29	42	2.64	39.19	99.69	333.60	5	246019	18.5	4	0	6
1380	1,6,10,13,17,18,20,23,27,28,34,38,41,45,55	165404	22	63442	147060	115413	34	47	3.05	43.54	119.74	352.86	5	302021	18.5	4	0	6
1381	1,6,10,13,17,18,20,23,27,28,34,38,43,47,46,48,51	156979	20	51573	152842	105636	32	47	2.64	37.31	96.65	364.60	7	267484	18.5	4	0	6
1382	1,6,10,13,17,18,20,23,27,28,34,38,43,47,46,48,52,53,54	154104	20	39993	149968	112870	30	46	2.77	37.71	96.65	355.91	6	236485	18.5	4	0	6
1383	1,6,10,13,17,18,20,23,27,28,34,38,43,47,49,53,54	145929	21	11793	141793	124335	30	42	3.13	38.12	99.22	325.81	6	212740	18.5	4	0	6
1384	1,6,10,13,17,18,20,23,27,28,34,38,43,50,54	145050	19	11162	140913	123456	30	43	2.77	40.03	100.30	319.22	5	209966	18.5	4	0	6
1385	1,6,10,13,17,19,22,24,29,36,35,37,40,41,44,55	165000	23	80905	135871	97610	32	47	1.65	37.41	96.38	355.58	5	372768	50	4	0	1
1386	1,6,10,13,17,19,22,24,29,36,35,37,40,41,45,55	179984	27	108225	143445	90993	37	52	2.05	41.76	116.43	374.84	5	428771	50	4	0	1
1387	1,6,10,13,17,19,22,24,29,36,35,37,40,43,47,46,48,51	171559	27	96356	149227	81217	35	52	1.65	35.53	93.34	386.43	7	394234	50	4	0	1
1388	1,6,10,13,17,19,22,24,29,36,35,37,40,43,47,46,48,52,53,54	168685	27	84775	146353	88451	33	51	1.77	35.93	93.34	377.74	6	363235	50	4	0	1
1389	1,6,10,13,17,19,22,24,29,36,35,37,40,43,47,49,53,54	160510	28	56576	138178	99916	33	47	2.14	36.34	95.91	347.64	6	339489	50	4	0	1
1390	1,6,10,13,17,19,22,24,29,36,35,37,40,43,50,54	159631	26	55944	137298	99037	33	48	1.77	38.25	96.99	341.04	5	336715	50	4	0	1
1391	1,6,10,13,17,19,22,24,29,36,35,37,42,46,48,51	170393	24	95149	148636	80626	33	52	1.65	35.53	92.52	385.43	7	389517	50	4	0	1
1392	1,6,10,13,17,19,22,24,29,36,35,37,42,46,48,52,53,54	167519	24	83569	145762	87860	31	51	1.77	35.93	92.52	376.74	6	358518	50	4	0	1
1393	1,6,10,13,17,19,22,24,29,36,35,37,42,47,50,54	159727	25	56001	137970	99709	33	48	1.77	38.25	98.26	341.65	5	337052	50	4	0	1
1394	1,6,10,13,17,19,22,24,29,36,35,37,42,49,53,54	159343	24	55369	137586	99325	31	47	2.14	36.34	95.09	346.64	6	334773	50	4	0	1
1395	1,6,10,13,17,19,22,24,29,36,38,40,42,46,48,51	170741	25	95111	148408	90284	34	52	1.90	36.59	92.81	384.32	7	390020	50	4	0	6
1396	1,6,10,13,17,19,22,24,29,36,38,40,42,46,48,52,53,54	167866	25	83531	145534	97518	32	51	2.03	36.99	92.81	375.63	6	359021	50	4	0	6
1397	1,6,10,13,17,19,22,24,29,36,38,40,42,47,50,54	160075	26	55963	137743	109367	34	48	2.03	39.31	98.55	340.55	5	337555	50	4	0	6
1398	1,6,10,13,17,19,22,24,29,36,38,40,42,49,53,54	159691	25	55331	137359	108983	32	47	2.40	37.40	95.39	345.53	6	335276	50	4	0	6
1399	1,6,10,13,17,19,22,24,29,36,38,41,44,55	164198	22	79717	135644	107268	31	47	1.90	38.48	96.67	353.46	5	368811	50	4	0	6
1400	1,6,10,13,17,19,22,24,29,36,38,41,45,55	179181	26	107037	143217	100652	36	52	2.31	42.82	116.72	372.72	5	424813	50	4	0	6
1401	1,6,10,13,17,19,22,24,29,36,38,43,47,46,48,51	170757	24	95168	149000	90876	34	52	1.90	36.59	93.63	384.46	7	390276	50	4	0	6
1402	1,6,10,13,17,19,22,24,29,36,38,43,47,46,48,52,53,54	167882	24	83587	146125	98110	32	51	2.03	36.99	93.63	375.77	6	359277	50	4	0	6
1403	1,6,10,13,17,19,22,24,29,36,38,43,47,49,53,54	159707	25	55388	137950	109575	32	47	2.40	37.40	96.20	345.67	6	335532	50	4	0	6
1404	1,6,10,13,17,19,22,24,29,36,38,43,50,54	158828	23	54756	137071	108695	32	48	2.03	39.31	97.28	339.08	5	332758	50	4	0	6
1405	1,6,10,13,17,19,22,24,29,39,41,40,42,46,48,51	172511	24	122181	145857	72308	31	55	1.75	35.43	125.51	349.73	7	420625	50	4	0	1
1406	1,6,10,13,17,19,22,24,29,39,41,40,42,46,48,52,53,54	169637	24	110600	142983	79542	29	54	1.87	35.83	125.51	341.04	6	389626	50	4	0	1
1407	1,6,10,13,17,19,22,24,29,39,41,40,42,47,50,54	161846	25	83033	135191	91391	31	51	1.87	38.15	131.25	305.96	5	368159	50	4	0	1
1408	1,6,10,13,17,19,22,24,29,39,41,40,42,49,53,54	161462	24	82401	134807	91007	29	50	2.24	36.24	128.09	310.94	6	365880	50	4	0	1
1409	1,6,10,13,17,19,22,24,29,39,41,43,47,46,48,51	172527	25	122237	146448	72899	31	55	1.75	35.43	126.33	349.87	7	420880	50	4	0	1
1410	1,6,10,13,17,19,22,24,29,39,41,43,47,46,48,52,53,54	169653	25	110657	143574	80134	29	54	1.87	35.83	126.33	341.18	6	389881	50	4	0	1
1411	1,6,10,13,17,19,22,24,29,39,41,43,47,49,53,54	161478	26	82457	135399	91599	29	50	2.24	36.24	128.90	311.08	6	366136	50	4	0	1
1412	1,6,10,13,17,19,22,24,29,39,41,43,50,54	160599	24	81826	134519	90719	29	51	1.87	38.15	129.98	304.49	5	363362	50	4	0	1
1413	1,6,10,13,17,19,22,24,29,39,44,55	152374	19	93193	133092	89292	28	46	1.75	37.32	129.37	300.34	5	359337	50	4	0	1
1414	1,6,10,13,17,19,22,24,29,39,45,55	167358	23	120512	140666	82676	33	51	2.15	41.66	149.42	319.60	5	415339	50	4	0	1
1415	1,6,10,13,17,19,22,25,29,36,35,37,40,41,44,55	163108	22	79013	132651	102090	32	48	1.66	35.97	98.10	345.62	5	369041	50.5	4	0	1
1416	1,6,10,13,17,19,22,25,29,36,35,37,40,41,45,55	178092	26	106332	140224	95473	37	53	2.07	40.32	118.16	364.88	5	425043	50.5	4	0	1
1417	1,6,10,13,17,19,22,25,29,36,35,37,40,43,47,46,48,51	169667	26	94463	146007	85697	35	53	1.66	34.09	95.06	376.46	7	390506	50.5	4	0	1
1418	1,6,10,13,17,19,22,25,29,36,35,37,40,43,47,46,48,52,53,54	166793	26	82883	143132	92931	33	52	1.79	34.49	95.06	367.77	6	359507	50.5	4	0	1
1419	1,6,10,13,17,19,22,25,29,36,35,37,40,43,47,49,53,54	158617	27	54684	134957	104396	33	48	2.15	34.90	97.63	337.67	6	335761	50.5	4	0	1
1420	1,6,10,13,17,19,22,25,29,36,35,37,40,43,50,54	157738	25	54052	134078	103517	33	49	1.79	36.81	98.71	331.08	5	332987	50.5	4	0	1
1421	1,6,10,13,17,19,22,25,29,36,35,37,42,46,48,51	168501	23	93257	145415	85105	33	53	1.66	34.09	94.25	375.46	7	385789	50.5	4	0	1
1422	1,6,10,13,17,19,22,25,29,36,35,37,42,46,48,52,53,54	165626	23	81676	142541	92340	31	52	1.79	34.49	94.25	366.77	6	354790	50.5	4	0	1
1423	1,6,10,13,17,19,22,25,29,36,35,37,42,47,50,54	157835	24	54108	134750	104189	33	49	1.79	36.81	99.98	331.69	5	333324	50.5	4	0	1
1424	1,6,10,13,17,19,22,25,29,36,35,37,42,49,53,54	157451	23	53477	134366	103805	31	48	2.15	34.90	96.82	336.67	6	331045	50.5	4	0	1
1425	1,6,10,13,17,19,22,25,29,36,38,40,42,46,48,51	168848	24	93219	145188	94764	34	53	1.92	35.15	94.54	374.35	7	386292	50.5	4	0	6
1426	1,6,10,13,17,19,22,25,29,36,38,40,42,46,48,52,53,54	165974	24	81639	142314	101998	32	52	2.05	35.55	94.54	365.66	6	355293	50.5	4	0	6
1427	1,6,10,13,17,19,22,25,29,36,38,40,42,47,50,54	158183	25	54071	134522	113847	34	49	2.05	37.87	100.27	330.58	5	333827	50.5	4	0	6
1428	1,6,10,13,17,19,22,25,29,36,38,40,42,49,53,54	157799	24	53439	134138	113463	32	48	2.41	35.96	97.11	335.56	6	331548	50.5	4	0	6

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
1429	1,6,10,13,17,19,22,25,29,36,38,41,44,55	162305	21	77825	132423	111748	31	48	1.92	37.03	98.40	343.50	5	365083	50.5	4	0	6
1430	1,6,10,13,17,19,22,25,29,36,38,41,45,55	177289	25	105144	139997	105132	36	53	2.33	41.38	118.45	362.76	5	421085	50.5	4	0	6
1431	1,6,10,13,17,19,22,25,29,36,38,43,47,46,48,51	168864	23	93275	145779	95355	34	53	1.92	35.15	95.35	374.50	7	386548	50.5	4	0	6
1432	1,6,10,13,17,19,22,25,29,36,38,43,47,46,48,52,53,54	165990	23	81695	142905	102589	32	52	2.05	35.55	95.35	365.81	6	355549	50.5	4	0	6
1433	1,6,10,13,17,19,22,25,29,36,38,43,47,49,53,54	157815	24	53495	134730	114054	32	48	2.41	35.96	97.92	335.71	6	331804	50.5	4	0	6
1434	1,6,10,13,17,19,22,25,29,36,38,43,50,54	156936	22	52864	133850	113175	32	49	2.05	37.87	99.00	329.11	5	329030	50.5	4	0	6
1435	1,6,10,13,17,19,22,25,29,39,41,40,42,46,48,51	170619	23	120288	142636	76788	31	56	1.76	33.99	127.24	339.77	7	416897	50.5	4	0	1
1436	1,6,10,13,17,19,22,25,29,39,41,40,42,46,48,52,53,54	167745	23	108708	139762	84022	29	55	1.89	34.39	127.24	331.08	6	385898	50.5	4	0	1
1437	1,6,10,13,17,19,22,25,29,39,41,40,42,47,50,54	159953	24	81140	131971	95871	31	52	1.89	36.71	132.97	296.00	5	364431	50.5	4	0	1
1438	1,6,10,13,17,19,22,25,29,39,41,40,42,49,53,54	159569	23	80509	131587	95487	29	51	2.25	34.80	129.81	300.98	6	362152	50.5	4	0	1
1439	1,6,10,13,17,19,22,25,29,39,41,43,47,46,48,51	170635	24	120345	143228	77379	31	56	1.76	33.99	128.05	339.91	7	417153	50.5	4	0	1
1440	1,6,10,13,17,19,22,25,29,39,41,43,47,46,48,52,53,54	167761	24	108765	140353	84613	29	55	1.89	34.39	128.05	331.22	6	386154	50.5	4	0	1
1441	1,6,10,13,17,19,22,25,29,39,41,43,47,49,53,54	159585	25	80565	132178	96078	29	51	2.25	34.80	130.62	301.12	6	362408	50.5	4	0	1
1442	1,6,10,13,17,19,22,25,29,39,41,43,50,54	158706	23	79933	131299	95199	29	52	1.89	36.71	131.70	294.53	5	359634	50.5	4	0	1
1443	1,6,10,13,17,19,22,25,29,39,44,55	150482	18	91300	129872	93772	28	47	1.76	35.87	131.10	290.38	5	355609	50.5	4	0	1
1444	1,6,10,13,17,19,22,25,29,39,45,55	165466	22	118620	137445	87155	33	52	2.17	40.22	151.15	309.64	5	411612	50.5	4	0	1
1445	1,6,10,13,17,21,27,26,30,32,46,47,50,54	167851	27	73088	137540	106488	37	55	1.60	42.80	95.20	378.18	5	371508	31	4	1	5
1446	1,6,10,13,17,21,27,26,30,32,46,49,53,54	167467	26	72456	137156	106104	35	54	1.97	40.90	92.04	382.58	6	369230	31	4	1	5
1447	1,6,10,13,17,21,27,26,30,32,48,51	163060	24	96779	132748	79801	37	57	1.48	40.08	89.46	368.73	5	401712	31	4	1	5
1448	1,6,10,13,17,21,27,26,30,32,48,52,53,54	160185	24	85199	129874	87035	35	56	1.60	40.49	89.46	360.04	4	370713	31	4	1	5
1449	1,6,10,13,17,21,27,26,31,34,35,37,40,41,44,55	151783	22	44050	137673	110064	32	44	1.90	37.53	79.90	356.29	5	273534	20	4	1	1
1450	1,6,10,13,17,21,27,26,31,34,35,37,40,41,45,55	166767	26	71369	145247	103448	37	49	2.30	41.88	99.95	375.55	5	329537	20	4	1	1
1451	1,6,10,13,17,21,27,26,31,34,35,37,40,43,47,46,48,51	158342	26	59500	151029	93671	35	49	1.90	35.65	76.85	387.13	7	294999	20	4	1	1
1452	1,6,10,13,17,21,27,26,31,34,35,37,40,43,47,46,48,52,53,54	155468	26	47920	148155	100906	33	48	2.02	36.05	76.85	378.44	6	264000	20	4	1	1
1453	1,6,10,13,17,21,27,26,31,34,35,37,40,43,47,49,53,54	147293	27	19721	139980	112371	33	44	2.39	36.46	79.43	348.34	6	240255	20	4	1	1
1454	1,6,10,13,17,21,27,26,31,34,35,37,40,43,50,54	146414	25	19089	139101	111491	33	45	2.02	38.37	80.51	341.75	5	237481	20	4	1	1
1455	1,6,10,13,17,21,27,26,31,34,35,37,42,46,48,51	157176	23	58293	150438	93080	33	49	1.90	35.65	76.04	386.13	7	290283	20	4	1	1
1456	1,6,10,13,17,21,27,26,31,34,35,37,42,46,48,52,53,54	154302	23	46713	147564	100314	31	48	2.02	36.05	76.04	377.44	6	259284	20	4	1	1
1457	1,6,10,13,17,21,27,26,31,34,35,37,42,47,50,54	146510	24	19145	139772	112163	33	45	2.02	38.37	81.77	342.36	5	237817	20	4	1	1
1458	1,6,10,13,17,21,27,26,31,34,35,37,42,49,53,54	146126	23	18514	139388	111779	31	44	2.39	36.46	78.61	347.34	6	235539	20	4	1	1
1459	1,6,10,13,17,21,27,26,31,34,36,39,41,40,42,46,48,51	168922	26	94953	152338	84762	33	52	2.00	35.55	124.88	357.04	7	356946	20	4	1	1
1460	1,6,10,13,17,21,27,26,31,34,36,39,41,40,42,46,48,52,53,54	166048	26	83373	149464	91997	31	51	2.12	35.95	124.88	348.35	6	325947	20	4	1	1
1461	1,6,10,13,17,21,27,26,31,34,36,39,41,40,42,47,50,54	158257	27	55805	141672	103846	33	48	2.12	38.27	130.61	313.27	5	304480	20	4	1	1
1462	1,6,10,13,17,21,27,26,31,34,36,39,41,40,42,49,53,54	157873	26	55174	141288	103462	31	47	2.49	36.36	127.45	318.25	6	302202	20	4	1	1
1463	1,6,10,13,17,21,27,26,31,34,36,39,41,43,47,46,48,51	168939	27	95010	152929	85354	33	52	2.00	35.55	125.69	357.18	7	357202	20	4	1	1
1464	1,6,10,13,17,21,27,26,31,34,36,39,41,43,47,46,48,52,53,54	166064	27	83430	150055	92588	31	51	2.12	35.95	125.69	348.49	6	326203	20	4	1	1
1465	1,6,10,13,17,21,27,26,31,34,36,39,41,43,47,49,53,54	157889	28	55230	141880	104053	31	47	2.49	36.36	128.27	318.39	6	302457	20	4	1	1
1466	1,6,10,13,17,21,27,26,31,34,36,39,41,43,50,54	157010	26	54599	141000	103174	31	48	2.12	38.27	129.35	311.80	5	299683	20	4	1	1
1467	1,6,10,13,17,21,27,26,31,34,36,39,44,55	148786	21	65965	139573	101746	30	43	2.00	37.43	128.74	307.65	5	295658	20	4	1	1
1468	1,6,10,13,17,21,27,26,31,34,36,39,45,55	163770	25	93285	147147	95130	35	48	2.40	41.78	148.79	326.91	5	351661	20	4	1	1
1469	1,6,10,13,17,21,27,26,31,34,38,40,42,46,48,51	157524	23	58256	150211	102739	34	49	2.16	36.71	76.33	385.05	7	290786	20	4	1	6
1470	1,6,10,13,17,21,27,26,31,34,38,40,42,46,48,52,53,54	154649	23	46676	147336	109973	32	48	2.28	37.11	76.33	376.36	6	259787	20	4	1	6
1471	1,6,10,13,17,21,27,26,31,34,38,40,42,47,50,54	146858	24	19108	139545	121822	34	45	2.28	39.43	82.07	341.28	5	238320	20	4	1	6
1472	1,6,10,13,17,21,27,26,31,34,38,40,42,49,53,54	146474	23	18476	139161	121438	32	44	2.65	37.52	78.90	346.26	6	236042	20	4	1	6
1473	1,6,10,13,17,21,27,26,31,34,38,41,44,55	150981	20	42862	137446	119723	31	44	2.16	38.59	80.19	354.20	5	269577	20	4	1	6
1474	1,6,10,13,17,21,27,26,31,34,38,41,45,55	165965	24	70181	145020	113106	36	49	2.56	42.94	100.24	373.46	5	325579	20	4	1	6
1475	1,6,10,13,17,21,27,26,31,34,38,43,47,46,48,51	157540	22	58312	150802	103330	34	49	2.16	36.71	77.15	385.20	7	291042	20	4	1	6
1476	1,6,10,13,17,21,27,26,31,34,38,43,47,46,48,52,53,54	154665	22	46732	147928	110564	32	48	2.28	37.11	77.15	376.51	6	260043	20	4	1	6
1477	1,6,10,13,17,21,27,26,31,34,38,43,47,49,53,54	146490	23	18532	139752	122029	32	44	2.65	37.52	79.72	346.41	6	236298	20	4	1	6
1478	1,6,10,13,17,21,27,26,31,34,38,43,50,54	145611	21	17901	138873	121150	32	45	2.28	39.43	80.80	339.81	5	233524	20	4	1	6
1479	1,6,10,13,17,21,27,26,33,37,40,41,44,55	151207	18	43023	137511	105247	32	45	1.90	36.54	80.32	354.86	5	272248	20	4	1	1

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
1480	1,6,10,13,17,21,27,26,33,37,40,41,45,55	166191	22	70343	145084	98631	37	50	2.30	40.89	100.38	374.12	5	328250	20	4	1	1
1481	1,6,10,13,17,21,27,26,33,37,40,43,47,46,48,51	157766	22	58474	150867	88855	35	50	1.90	34.66	77.28	385.70	7	293713	20	4	1	1
1482	1,6,10,13,17,21,27,26,33,37,40,43,47,46,48,52,53,54	154892	22	46894	147992	96089	33	49	2.02	35.06	77.28	377.01	6	262714	20	4	1	1
1483	1,6,10,13,17,21,27,26,33,37,40,43,47,49,53,54	146717	23	18694	139817	107554	33	45	2.39	35.47	79.85	346.91	6	238969	20	4	1	1
1484	1,6,10,13,17,21,27,26,33,37,40,43,50,54	145838	21	18063	138938	106675	33	46	2.02	37.38	80.93	340.32	5	236195	20	4	1	1
1485	1,6,10,13,17,21,27,26,33,37,42,46,48,51	156600	19	57267	150275	88263	33	50	1.90	34.66	76.47	384.70	7	288997	20	4	1	1
1486	1,6,10,13,17,21,27,26,33,37,42,46,48,52,53,54	153726	19	45687	147401	95498	31	49	2.02	35.06	76.47	376.01	6	257998	20	4	1	1
1487	1,6,10,13,17,21,27,26,33,37,42,47,50,54	145934	20	18119	139610	107347	33	46	2.02	37.38	82.20	340.93	5	236531	20	4	1	1
1488	1,6,10,13,17,21,27,26,33,37,42,49,53,54	145550	19	17488	139226	106963	31	45	2.39	35.47	79.04	345.91	6	234253	20	4	1	1
1489	1,6,10,13,17,21,28,31,30,32,46,47,50,54	167209	25	70815	137740	109254	37	55	1.60	41.64	101.25	371.20	5	365532	31	4	0	5
1490	1,6,10,13,17,21,28,31,30,32,46,49,53,54	166825	24	70183	137356	108870	35	54	1.97	39.73	98.08	375.59	6	363253	31	4	0	5
1491	1,6,10,13,17,21,28,31,30,32,48,51	162417	22	94506	132948	82567	37	57	1.48	38.92	95.51	361.75	5	395736	31	4	0	5
1492	1,6,10,13,17,21,28,31,30,32,48,52,53,54	159543	22	82926	130074	89801	35	56	1.60	39.32	95.51	353.06	4	364737	31	4	0	5
1493	1,6,10,13,17,21,28,31,33,37,40,41,44,55	150565	18	40750	137711	108014	32	45	1.90	35.38	86.37	347.82	5	266272	20	4	0	1
1494	1,6,10,13,17,21,28,31,33,37,40,41,45,55	165549	22	68070	145285	101397	37	50	2.30	39.73	106.42	367.08	5	322274	20	4	0	1
1495	1,6,10,13,17,21,28,31,33,37,40,43,47,46,48,51	157124	22	56201	151067	91621	35	50	1.90	33.50	83.33	378.67	7	287737	20	4	0	1
1496	1,6,10,13,17,21,28,31,33,37,40,43,47,46,48,52,53,54	154250	22	44621	148193	98855	33	49	2.02	33.90	83.33	369.98	6	256738	20	4	0	1
1497	1,6,10,13,17,21,28,31,33,37,40,43,47,49,53,54	146074	23	16421	140017	110320	33	45	2.39	34.31	85.90	339.88	6	232992	20	4	0	1
1498	1,6,10,13,17,21,28,31,33,37,40,43,50,54	145195	21	15790	139138	109441	33	46	2.02	36.22	86.98	333.28	5	230218	20	4	0	1
1499	1,6,10,13,17,21,28,31,33,37,42,46,48,51	155957	19	54994	150476	91030	33	50	1.90	33.50	82.51	377.67	7	283020	20	4	0	1
1500	1,6,10,13,17,21,28,31,33,37,42,46,48,52,53,54	153083	19	43414	147601	98264	31	49	2.02	33.90	82.51	368.97	6	252021	20	4	0	1
1501	1,6,10,13,17,21,28,31,33,37,42,47,50,54	145292	20	15846	139810	110113	33	46	2.02	36.22	88.25	333.89	5	230555	20	4	0	1
1502	1,6,10,13,17,21,28,31,33,37,42,49,53,54	144908	19	15215	139426	109729	31	45	2.39	34.31	85.09	338.88	6	228276	20	4	0	1
1503	1,6,10,13,17,21,28,34,35,37,40,41,44,55	150314	18	40950	137874	112830	32	44	1.90	36.37	85.33	347.13	5	263425	20	4	0	1
1504	1,6,10,13,17,21,28,34,35,37,40,41,45,55	165298	22	68270	145447	106214	37	49	2.30	40.72	105.38	366.39	5	319427	20	4	0	1
1505	1,6,10,13,17,21,28,34,35,37,40,43,47,46,48,51	156873	22	56401	151230	96438	35	49	1.90	34.49	82.28	377.98	7	284890	20	4	0	1
1506	1,6,10,13,17,21,28,34,35,37,40,43,47,46,48,52,53,54	153999	22	44820	148355	103672	33	48	2.02	34.89	82.28	369.29	6	253891	20	4	0	1
1507	1,6,10,13,17,21,28,34,35,37,40,43,47,49,53,54	145824	23	16621	140180	115137	33	44	2.39	35.30	84.86	339.19	6	230146	20	4	0	1
1508	1,6,10,13,17,21,28,34,35,37,40,43,50,54	144944	21	15989	139301	114258	33	45	2.02	37.21	85.94	332.59	5	227372	20	4	0	1
1509	1,6,10,13,17,21,28,34,35,37,42,46,48,51	155707	19	55194	150638	95846	33	49	1.90	34.49	81.47	376.98	7	280174	20	4	0	1
1510	1,6,10,13,17,21,28,34,35,37,42,46,48,52,53,54	152833	19	43614	147764	103080	31	48	2.02	34.89	81.47	368.29	6	249175	20	4	0	1
1511	1,6,10,13,17,21,28,34,35,37,42,47,50,54	145041	20	16046	139973	114929	33	45	2.02	37.21	87.20	333.20	5	227708	20	4	0	1
1512	1,6,10,13,17,21,28,34,35,37,42,49,53,54	144657	19	15414	139589	114545	31	44	2.39	35.30	84.04	338.19	6	225429	20	4	0	1
1513	1,6,10,13,17,21,28,34,36,39,41,40,42,46,48,51	167453	22	91854	152538	87529	33	52	2.00	34.39	130.31	347.89	7	346836	20	4	0	1
1514	1,6,10,13,17,21,28,34,36,39,41,40,42,46,48,52,53,54	164579	22	80274	149664	94763	31	51	2.12	34.79	130.31	339.19	6	315837	20	4	0	1
1515	1,6,10,13,17,21,28,34,36,39,41,40,42,47,50,54	156788	23	52706	141872	106612	33	48	2.12	37.11	136.04	304.11	5	294371	20	4	0	1
1516	1,6,10,13,17,21,28,34,36,39,41,40,42,49,53,54	156404	22	52074	141488	106228	31	47	2.49	35.20	132.88	309.10	6	292092	20	4	0	1
1517	1,6,10,13,17,21,28,34,36,39,41,43,47,46,48,51	167470	23	91910	153129	88120	33	52	2.00	34.39	131.12	348.03	7	347092	20	4	0	1
1518	1,6,10,13,17,21,28,34,36,39,41,43,47,46,48,52,53,54	164595	23	80330	150255	95354	31	51	2.12	34.79	131.12	339.34	6	316093	20	4	0	1
1519	1,6,10,13,17,21,28,34,36,39,41,43,47,49,53,54	156420	24	52131	142080	106819	31	47	2.49	35.20	133.70	309.24	6	292348	20	4	0	1
1520	1,6,10,13,17,21,28,34,36,39,41,43,50,54	155541	22	51499	141201	105940	31	48	2.12	37.11	134.78	302.64	5	289574	20	4	0	1
1521	1,6,10,13,17,21,28,34,36,39,44,55	147317	17	62866	139773	104513	30	43	2.00	36.27	134.17	298.50	5	285549	20	4	0	1
1522	1,6,10,13,17,21,28,34,36,39,45,55	162300	21	90185	147347	97896	35	48	2.40	40.62	154.22	317.75	5	341551	20	4	0	1
1523	1,6,10,13,17,21,28,34,38,40,42,46,48,51	156055	19	55156	150411	105505	34	49	2.16	35.55	81.76	375.90	7	280677	20	4	0	6
1524	1,6,10,13,17,21,28,34,38,40,42,46,48,52,53,54	153180	19	43576	147536	112739	32	48	2.28	35.95	81.76	367.20	6	249678	20	4	0	6
1525	1,6,10,13,17,21,28,34,38,40,42,47,50,54	145389	20	16008	139745	124588	34	45	2.28	38.27	87.50	332.12	5	228211	20	4	0	6
1526	1,6,10,13,17,21,28,34,38,40,42,49,53,54	145005	19	15376	139361	124204	32	44	2.65	36.36	84.34	337.11	6	225932	20	4	0	6
1527	1,6,10,13,17,21,28,34,38,41,44,55	149512	16	39762	137646	122489	31	44	2.16	37.43	85.62	345.04	5	259467	20	4	0	6
1528	1,6,10,13,17,21,28,34,38,41,45,55	164495	20	67082	145220	115872	36	49	2.56	41.78	105.67	364.30	5	315470	20	4	0	6
1529	1,6,10,13,17,21,28,34,38,43,47,46,48,51	156071	18	55213	151002	106096	34	49	2.16	35.55	82.58	376.04	7	280932	20	4	0	6
1530	1,6,10,13,17,21,28,34,38,43,47,46,48,52,53,54	153196	18	43632	148128	113330	32	48	2.28	35.95	82.58	367.35	6	249933	20	4	0	6

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
1531	1,6,10,13,17,21,28,34,38,43,47,49,53,54	145021	19	15433	139953	124795	32	44	2.65	36.36	85.15	337.25	6	226188	20	4	0	6
1532	1,6,10,13,17,21,28,34,38,43,50,54	144142	17	14801	139073	123916	32	45	2.28	38.27	86.23	330.66	5	223414	20	4	0	6
1533	1,6,10,15,23,26,30,32,46,47,50,54	167180	25	74213	133462	105632	35	52	2.14	43.81	106.18	360.02	5	368609	28	4	1	5
1534	1,6,10,15,23,26,30,32,46,49,53,54	166796	24	73581	133078	105248	33	51	2.51	41.90	103.02	364.42	6	366331	28	4	1	5
1535	1,6,10,15,23,26,30,32,48,51	162388	22	97904	128670	78945	35	54	2.01	41.09	100.45	350.57	5	398813	28	4	1	5
1536	1,6,10,15,23,26,30,32,48,52,53,54	159514	22	86324	125796	86179	33	53	2.14	41.49	100.45	341.88	4	367814	28	4	1	5
1537	1,6,10,15,23,26,31,34,35,37,40,41,44,55	151112	20	45175	133595	109208	30	41	2.43	38.54	90.88	338.13	5	270635	17	4	1	1
1538	1,6,10,15,23,26,31,34,35,37,40,41,45,55	166096	24	72494	141169	102592	35	46	2.84	42.89	110.93	357.39	5	326638	17	4	1	1
1539	1,6,10,15,23,26,31,34,35,37,40,43,47,46,48,51	157671	24	60625	146951	92816	33	46	2.43	36.65	87.84	368.98	7	292100	17	4	1	1
1540	1,6,10,15,23,26,31,34,35,37,40,43,47,46,48,52,53,54	154797	24	49045	144077	100050	31	45	2.56	37.06	87.84	360.28	6	261101	17	4	1	1
1541	1,6,10,15,23,26,31,34,35,37,40,43,47,49,53,54	146622	25	20846	135902	111515	31	41	2.92	37.46	90.41	330.18	6	237356	17	4	1	1
1542	1,6,10,15,23,26,31,34,35,37,40,43,50,54	145742	23	20214	135023	110636	31	42	2.56	39.37	91.49	323.59	5	234582	17	4	1	1
1543	1,6,10,15,23,26,31,34,35,37,42,46,48,51	156505	21	59418	146360	92224	31	46	2.43	36.65	87.02	367.97	7	287384	17	4	1	1
1544	1,6,10,15,23,26,31,34,35,37,42,46,48,52,53,54	153630	21	47838	143486	99459	29	45	2.56	37.06	87.02	359.28	6	256385	17	4	1	1
1545	1,6,10,15,23,26,31,34,35,37,42,47,50,54	145839	22	20270	135694	111308	31	42	2.56	39.37	92.76	324.20	5	234918	17	4	1	1
1546	1,6,10,15,23,26,31,34,35,37,42,49,53,54	145455	21	19639	135310	110924	29	41	2.92	37.46	89.60	329.18	6	232640	17	4	1	1
1547	1,6,10,15,23,26,31,34,36,39,41,40,42,46,48,51	168251	24	96078	148260	83907	31	49	2.53	36.56	135.86	338.88	7	354047	17	4	1	1
1548	1,6,10,15,23,26,31,34,36,39,41,40,42,46,48,52,53,54	165377	24	84498	145386	91141	29	48	2.66	36.96	135.86	330.19	6	323048	17	4	1	1
1549	1,6,10,15,23,26,31,34,36,39,41,40,42,47,50,54	157586	25	56930	137594	102990	31	45	2.66	39.28	141.60	295.11	5	301581	17	4	1	1
1550	1,6,10,15,23,26,31,34,36,39,41,40,42,49,53,54	157202	24	56299	137210	102606	29	44	3.03	37.37	138.44	300.09	6	299303	17	4	1	1
1551	1,6,10,15,23,26,31,34,36,39,41,43,47,46,48,51	168267	25	96135	148851	84498	31	49	2.53	36.56	136.68	339.03	7	354303	17	4	1	1
1552	1,6,10,15,23,26,31,34,36,39,41,43,47,46,48,52,53,54	165393	25	84555	145977	91732	29	48	2.66	36.96	136.68	330.33	6	323304	17	4	1	1
1553	1,6,10,15,23,26,31,34,36,39,41,43,47,49,53,54	157218	26	56355	137802	103197	29	44	3.03	37.37	139.25	300.23	6	299558	17	4	1	1
1554	1,6,10,15,23,26,31,34,36,39,41,43,50,54	156339	24	55724	136922	102318	29	45	2.66	39.28	140.33	293.64	5	296784	17	4	1	1
1555	1,6,10,15,23,26,31,34,36,39,44,55	148115	19	67090	135495	100891	28	40	2.53	38.44	139.72	289.49	5	292759	17	4	1	1
1556	1,6,10,15,23,26,31,34,36,39,45,55	163098	23	94410	143069	94274	33	45	2.94	42.79	159.77	308.75	5	348762	17	4	1	1
1557	1,6,10,15,23,26,31,34,38,40,42,46,48,51	156853	21	59381	146133	101883	32	46	2.69	37.72	87.31	366.89	7	287887	17	4	1	6
1558	1,6,10,15,23,26,31,34,38,40,42,46,48,52,53,54	153978	21	47801	143258	109117	30	45	2.82	38.12	87.31	358.20	6	256888	17	4	1	6
1559	1,6,10,15,23,26,31,34,38,40,42,47,50,54	146187	22	20233	135467	120966	32	42	2.82	40.44	93.05	323.12	5	235422	17	4	1	6
1560	1,6,10,15,23,26,31,34,38,40,42,49,53,54	145803	21	19601	135083	120582	30	41	3.18	38.53	89.89	328.10	6	233143	17	4	1	6
1561	1,6,10,15,23,26,31,34,38,41,44,55	150310	18	43987	133368	118867	29	41	2.69	39.60	91.17	336.04	5	266678	17	4	1	6
1562	1,6,10,15,23,26,31,34,38,41,45,55	165293	22	71306	140942	112251	34	46	3.10	43.95	111.23	355.30	5	322680	17	4	1	6
1563	1,6,10,15,23,26,31,34,38,43,47,46,48,51	156869	20	59437	146724	102474	32	46	2.69	37.72	88.13	367.04	7	288143	17	4	1	6
1564	1,6,10,15,23,26,31,34,38,43,47,46,48,52,53,54	153994	20	47857	143850	109708	30	45	2.82	38.12	88.13	358.35	6	257144	17	4	1	6
1565	1,6,10,15,23,26,31,34,38,43,47,49,53,54	145819	21	19657	135674	121173	30	41	3.18	38.53	90.70	328.25	6	233399	17	4	1	6
1566	1,6,10,15,23,26,31,34,38,43,50,54	144940	19	19026	134795	120294	30	42	2.82	40.44	91.78	321.65	5	230625	17	4	1	6
1567	1,6,10,15,23,26,33,37,40,41,44,55	150536	16	44148	133433	104392	30	42	2.43	37.55	91.31	336.70	5	269349	17	4	1	1
1568	1,6,10,15,23,26,33,37,40,41,45,55	165520	20	71468	141006	97775	35	47	2.84	41.89	111.36	355.96	5	325352	17	4	1	1
1569	1,6,10,15,23,26,33,37,40,43,47,46,48,51	157095	20	59599	146789	87999	33	47	2.43	35.66	88.26	367.55	7	290814	17	4	1	1
1570	1,6,10,15,23,26,33,37,40,43,47,46,48,52,53,54	154221	20	48019	143914	95233	31	46	2.56	36.06	88.26	358.85	6	259815	17	4	1	1
1571	1,6,10,15,23,26,33,37,40,43,47,49,53,54	146046	21	19819	135739	106698	31	42	2.92	36.47	90.83	328.76	6	236070	17	4	1	1
1572	1,6,10,15,23,26,33,37,40,43,50,54	145166	19	19188	134860	105819	31	43	2.56	38.38	91.92	322.16	5	233296	17	4	1	1
1573	1,6,10,15,23,26,33,37,42,46,48,51	155929	17	58392	146197	87408	31	47	2.43	35.66	87.45	366.55	7	286098	17	4	1	1
1574	1,6,10,15,23,26,33,37,42,46,48,52,53,54	153054	17	46812	143323	94642	29	46	2.56	36.06	87.45	357.85	6	255099	17	4	1	1
1575	1,6,10,15,23,26,33,37,42,47,50,54	145263	18	19244	135532	106491	31	43	2.56	38.38	93.18	322.77	5	233632	17	4	1	1
1576	1,6,10,15,23,26,33,37,42,49,53,54	144879	17	18613	135148	106107	29	42	2.92	36.47	90.02	327.75	6	231354	17	4	1	1
1577	1,6,10,15,23,27,28,31,30,32,46,47,50,54	167491	25	72893	133662	108398	35	52	2.14	42.65	115.32	353.04	5	366447	28	4	0	5
1578	1,6,10,15,23,27,28,31,30,32,46,49,53,54	167107	24	72262	133278	108014	33	51	2.51	40.74	112.16	357.43	6	364168	28	4	0	5
1579	1,6,10,15,23,27,28,31,30,32,48,51	162699	22	96584	128870	81711	35	54	2.01	39.93	109.59	343.59	5	396651	28	4	0	5
1580	1,6,10,15,23,27,28,31,30,32,48,52,53,54	159825	22	85004	125996	88945	33	53	2.14	40.33	109.59	334.90	4	365652	28	4	0	5
1581	1,6,10,15,23,27,28,31,33,37,40,41,44,55	150847	18	42829	133633	107158	30	42	2.43	36.38	100.45	329.66	5	267187	17	4	0	1

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
1582	1,6,10,15,23,27,28,31,33,37,40,41,45,55	165831	22	70149	141207	100542	35	47	2.84	40.73	120.50	348.92	5	323189	17	4	0	1
1583	1,6,10,15,23,27,28,31,33,37,40,43,47,46,48,51	157406	22	58279	146989	90765	33	47	2.43	34.50	97.41	360.51	7	288652	17	4	0	1
1584	1,6,10,15,23,27,28,31,33,37,40,43,47,46,48,52,53,54	154532	22	46699	144115	97999	31	46	2.56	34.90	97.41	351.82	6	257653	17	4	0	1
1585	1,6,10,15,23,27,28,31,33,37,40,43,47,49,53,54	146357	23	18500	135939	109464	31	42	2.92	35.31	99.98	321.72	6	233907	17	4	0	1
1586	1,6,10,15,23,27,28,31,33,37,40,43,50,54	145477	21	17868	135060	108585	31	43	2.56	37.22	101.06	315.12	5	231133	17	4	0	1
1587	1,6,10,15,23,27,28,31,33,37,42,46,48,51	156240	19	57073	146398	90174	31	47	2.43	34.50	96.59	359.51	7	283935	17	4	0	1
1588	1,6,10,15,23,27,28,31,33,37,42,46,48,52,53,54	153365	19	45493	143523	97408	29	46	2.56	34.90	96.59	350.82	6	252936	17	4	0	1
1589	1,6,10,15,23,27,28,31,33,37,42,47,50,54	145574	20	17925	135732	109257	31	43	2.56	37.22	102.33	315.73	5	231470	17	4	0	1
1590	1,6,10,15,23,27,28,31,33,37,42,49,53,54	145190	19	17293	135348	108873	29	42	2.92	35.31	99.16	320.72	6	229191	17	4	0	1
1591	1,6,10,15,23,27,28,34,35,37,40,41,44,55	150597	18	43029	133796	111975	30	41	2.43	37.37	99.41	328.97	5	264340	17	4	0	1
1592	1,6,10,15,23,27,28,34,35,37,40,41,45,55	165580	22	70348	141369	105358	35	46	2.84	41.72	119.46	348.23	5	320342	17	4	0	1
1593	1,6,10,15,23,27,28,34,35,37,40,43,47,46,48,51	157156	22	58479	147152	95582	33	46	2.43	35.49	96.36	359.82	7	285805	17	4	0	1
1594	1,6,10,15,23,27,28,34,35,37,40,43,47,46,48,52,53,54	154281	22	46899	144277	102816	31	45	2.56	35.89	96.36	351.13	6	254806	17	4	0	1
1595	1,6,10,15,23,27,28,34,35,37,40,43,47,49,53,54	146106	23	18699	136102	114281	31	41	2.92	36.30	98.93	321.03	6	231061	17	4	0	1
1596	1,6,10,15,23,27,28,34,35,37,40,43,50,54	145227	21	18068	135223	113402	31	42	2.56	38.21	100.02	314.43	5	228287	17	4	0	1
1597	1,6,10,15,23,27,28,34,35,37,42,46,48,51	155989	19	57272	146560	94991	31	46	2.43	35.49	95.55	358.82	7	281089	17	4	0	1
1598	1,6,10,15,23,27,28,34,35,37,42,46,48,52,53,54	153115	19	45692	143686	102225	29	45	2.56	35.89	95.55	350.13	6	250090	17	4	0	1
1599	1,6,10,15,23,27,28,34,35,37,42,47,50,54	145324	20	18124	135895	114074	31	42	2.56	38.21	101.28	315.05	5	228623	17	4	0	1
1600	1,6,10,15,23,27,28,34,35,37,42,49,53,54	144940	19	17493	135511	113690	29	41	2.92	36.30	98.12	320.03	6	226344	17	4	0	1
1601	1,6,10,15,23,27,28,34,36,39,41,40,42,46,48,51	167736	22	93932	148460	86673	31	49	2.53	35.39	144.39	329.73	7	347751	17	4	0	1
1602	1,6,10,15,23,27,28,34,36,39,41,40,42,46,48,52,53,54	164861	22	82352	145586	93907	29	48	2.66	35.79	144.39	321.04	6	316752	17	4	0	1
1603	1,6,10,15,23,27,28,34,36,39,41,40,42,47,50,54	157070	23	54784	137794	105756	31	45	2.66	38.11	150.12	285.95	5	295286	17	4	0	1
1604	1,6,10,15,23,27,28,34,36,39,41,40,42,49,53,54	156686	22	54153	137410	105372	29	44	3.03	36.20	146.96	290.94	6	293007	17	4	0	1
1605	1,6,10,15,23,27,28,34,36,39,41,43,47,46,48,51	167752	23	93989	149051	87264	31	49	2.53	35.39	145.20	329.87	7	348007	17	4	0	1
1606	1,6,10,15,23,27,28,34,36,39,41,43,47,46,48,52,53,54	164878	23	82409	146177	94498	29	48	2.66	35.79	145.20	321.18	6	317008	17	4	0	1
1607	1,6,10,15,23,27,28,34,36,39,41,43,47,49,53,54	156702	24	54209	138002	105963	29	44	3.03	36.20	147.77	291.08	6	293263	17	4	0	1
1608	1,6,10,15,23,27,28,34,36,39,41,43,50,54	155823	22	53577	137123	105084	29	45	2.66	38.11	148.86	284.48	5	290489	17	4	0	1
1609	1,6,10,15,23,27,28,34,36,39,44,55	147599	17	64944	135695	103657	28	40	2.53	37.28	148.25	280.34	5	286464	17	4	0	1
1610	1,6,10,15,23,27,28,34,36,39,45,55	162583	21	92264	143269	97041	33	45	2.94	41.62	168.30	299.59	5	342466	17	4	0	1
1611	1,6,10,15,23,27,28,34,38,40,42,46,48,51	156337	19	57235	146333	104649	32	46	2.69	36.55	95.84	357.74	7	281592	17	4	0	6
1612	1,6,10,15,23,27,28,34,38,40,42,46,48,52,53,54	153463	19	45654	143458	111883	30	45	2.82	36.96	95.84	349.05	6	250593	17	4	0	6
1613	1,6,10,15,23,27,28,34,38,40,42,47,50,54	145671	20	18086	135667	123732	32	42	2.82	39.27	101.57	313.96	5	229126	17	4	0	6
1614	1,6,10,15,23,27,28,34,38,40,42,49,53,54	145287	19	17455	135283	123348	30	41	3.18	37.37	98.41	318.95	6	226847	17	4	0	6
1615	1,6,10,15,23,27,28,34,38,41,44,55	149794	16	41840	133568	121633	29	41	2.69	38.44	99.70	326.88	5	260382	17	4	0	6
1616	1,6,10,15,23,27,28,34,38,41,45,55	164778	20	69160	141142	115017	34	46	3.10	42.79	119.75	346.14	5	316385	17	4	0	6
1617	1,6,10,15,23,27,28,34,38,43,47,46,48,51	156353	18	57291	146924	105240	32	46	2.69	36.55	96.65	357.88	7	281847	17	4	0	6
1618	1,6,10,15,23,27,28,34,38,43,47,46,48,52,53,54	153479	18	45711	144050	112475	30	45	2.82	36.96	96.65	349.19	6	250848	17	4	0	6
1619	1,6,10,15,23,27,28,34,38,43,47,49,53,54	145303	19	17511	135875	123940	30	41	3.18	37.37	99.23	319.09	6	227103	17	4	0	6
1620	1,6,10,15,23,27,28,34,38,43,50,54	144424	17	16880	134995	123060	30	42	2.82	39.27	100.31	312.50	5	224329	17	4	0	6
1621	1,6,10,16,18,19,22,24,29,36,35,37,40,41,44,55	165066	21	80970	135572	100921	32	46	1.65	37.41	96.38	355.02	5	373271	59.5	4	0	1
1622	1,6,10,16,18,19,22,24,29,36,35,37,40,41,45,55	180050	25	108289	143146	94305	37	51	2.05	41.76	116.43	374.27	5	429273	59.5	4	0	1
1623	1,6,10,16,18,19,22,24,29,36,35,37,40,43,47,46,48,51	171625	25	96420	148928	84528	35	51	1.65	35.53	93.34	385.86	7	394736	59.5	4	0	1
1624	1,6,10,16,18,19,22,24,29,36,35,37,40,43,47,46,48,52,53,54	168751	25	84840	146054	91762	33	50	1.77	35.93	93.34	377.17	6	363737	59.5	4	0	1
1625	1,6,10,16,18,19,22,24,29,36,35,37,40,43,47,49,53,54	160576	26	56641	137879	103228	33	46	2.14	36.34	95.91	347.07	6	339992	59.5	4	0	1
1626	1,6,10,16,18,19,22,24,29,36,35,37,40,43,50,54	159697	24	56009	136999	102348	33	47	1.77	38.25	96.99	340.48	5	337218	59.5	4	0	1
1627	1,6,10,16,18,19,22,24,29,36,35,37,42,46,48,51	170459	22	95214	148337	83937	33	51	1.65	35.53	92.52	384.86	7	390020	59.5	4	0	1
1628	1,6,10,16,18,19,22,24,29,36,35,37,42,46,48,52,53,54	167585	22	83634	145463	91171	31	50	1.77	35.93	92.52	376.17	6	359021	59.5	4	0	1
1629	1,6,10,16,18,19,22,24,29,36,35,37,42,47,50,54	159793	23	56066	137671	103020	33	47	1.77	38.25	98.26	341.09	5	337554	59.5	4	0	1
1630	1,6,10,16,18,19,22,24,29,36,35,37,42,49,53,54	159409	22	55434	137287	102636	31	46	2.14	36.34	95.09	346.07	6	335275	59.5	4	0	1
1631	1,6,10,16,18,19,22,24,29,36,38,40,42,46,48,51	170807	23	95176	148110	93595	34	51	1.90	36.59	92.81	383.75	7	390523	59.5	4	0	6
1632	1,6,10,16,18,19,22,24,29,36,38,40,42,46,48,52,53,54	167932	23	83596	145235	100830	32	50	2.03	36.99	92.81	375.06	6	359524	59.5	4	0	6

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
1633	1,6,10,16,18,19,22,24,29,36,38,40,42,47,50,54	160141	24	56028	137444	112679	34	47	2.03	39.31	98.55	339.98	5	338057	59.5	4	0	6
1634	1,6,10,16,18,19,22,24,29,36,38,40,42,49,53,54	159757	23	55396	137060	112295	32	46	2.40	37.40	95.39	344.96	6	335778	59.5	4	0	6
1635	1,6,10,16,18,19,22,24,29,36,38,41,44,55	164264	20	79782	135345	110580	31	46	1.90	38.48	96.67	352.90	5	369313	59.5	4	0	6
1636	1,6,10,16,18,19,22,24,29,36,38,41,45,55	179247	24	107101	142919	103963	36	51	2.31	42.82	116.72	372.16	5	425316	59.5	4	0	6
1637	1,6,10,16,18,19,22,24,29,36,38,43,47,46,48,51	170823	22	95232	148701	94187	34	51	1.90	36.59	93.63	383.90	7	390778	59.5	4	0	6
1638	1,6,10,16,18,19,22,24,29,36,38,43,47,46,48,52,53,54	167948	22	83652	145827	101421	32	50	2.03	36.99	93.63	375.21	6	359779	59.5	4	0	6
1639	1,6,10,16,18,19,22,24,29,36,38,43,47,49,53,54	159773	23	55453	137651	112886	32	46	2.40	37.40	96.20	345.11	6	336034	59.5	4	0	6
1640	1,6,10,16,18,19,22,24,29,36,38,43,50,54	158894	21	54821	136772	112007	32	47	2.03	39.31	97.28	338.51	5	333260	59.5	4	0	6
1641	1,6,10,16,18,19,22,24,29,39,41,40,42,46,48,51	172577	22	122245	145558	75619	31	54	1.75	35.43	125.51	349.17	7	421127	59.5	4	0	1
1642	1,6,10,16,18,19,22,24,29,39,41,40,42,46,48,52,53,54	169703	22	110665	142684	82853	29	53	1.87	35.83	125.51	340.48	6	390128	59.5	4	0	1
1643	1,6,10,16,18,19,22,24,29,39,41,40,42,47,50,54	161912	23	83097	134892	94702	31	50	1.87	38.15	131.25	305.40	5	368661	59.5	4	0	1
1644	1,6,10,16,18,19,22,24,29,39,41,40,42,49,53,54	161528	22	82466	134508	94319	29	49	2.24	36.24	128.09	310.38	6	366383	59.5	4	0	1
1645	1,6,10,16,18,19,22,24,29,39,41,43,47,46,48,51	172593	23	122302	146149	76211	31	54	1.75	35.43	126.33	349.31	7	421383	59.5	4	0	1
1646	1,6,10,16,18,19,22,24,29,39,41,43,47,46,48,52,53,54	169719	23	110722	143275	83445	29	53	1.87	35.83	126.33	340.62	6	390384	59.5	4	0	1
1647	1,6,10,16,18,19,22,24,29,39,41,43,47,49,53,54	161544	24	82522	135100	94910	29	49	2.24	36.24	128.90	310.52	6	366638	59.5	4	0	1
1648	1,6,10,16,18,19,22,24,29,39,41,43,50,54	160665	22	81891	134220	94031	29	50	1.87	38.15	129.98	303.92	5	363864	59.5	4	0	1
1649	1,6,10,16,18,19,22,24,29,39,44,55	152440	17	93258	132793	92603	28	45	1.75	37.32	129.37	299.78	5	359839	59.5	4	0	1
1650	1,6,10,16,18,19,22,24,29,39,45,55	167424	21	120577	140367	85987	33	50	2.15	41.66	149.42	319.03	5	415842	59.5	4	0	1
1651	1,6,10,16,18,19,22,25,29,36,35,37,40,41,44,55	163174	20	79078	132352	105401	32	47	1.66	35.97	98.10	345.05	5	369543	60	4	0	1
1652	1,6,10,16,18,19,22,25,29,36,35,37,40,41,45,55	178158	24	106397	139926	98784	37	52	2.07	40.32	118.16	364.31	5	425545	60	4	0	1
1653	1,6,10,16,18,19,22,25,29,36,35,37,40,43,47,46,48,51	169733	24	94528	145708	89008	35	52	1.66	34.09	95.06	375.90	7	391008	60	4	0	1
1654	1,6,10,16,18,19,22,25,29,36,35,37,40,43,47,46,48,52,53,54	166859	24	82948	142834	96242	33	51	1.79	34.49	95.06	367.21	6	360009	60	4	0	1
1655	1,6,10,16,18,19,22,25,29,36,35,37,40,43,47,49,53,54	158683	25	54748	134658	107707	33	47	2.15	34.90	97.63	337.11	6	336264	60	4	0	1
1656	1,6,10,16,18,19,22,25,29,36,35,37,40,43,50,54	157804	23	54117	133779	106828	33	48	1.79	36.81	98.71	330.51	5	333490	60	4	0	1
1657	1,6,10,16,18,19,22,25,29,36,35,37,42,46,48,51	168567	21	93321	145117	88417	33	52	1.66	34.09	94.25	374.90	7	386292	60	4	0	1
1658	1,6,10,16,18,19,22,25,29,36,35,37,42,46,48,52,53,54	165692	21	81741	142242	95651	31	51	1.79	34.49	94.25	366.21	6	355293	60	4	0	1
1659	1,6,10,16,18,19,22,25,29,36,35,37,42,47,50,54	157901	22	54173	134451	107500	33	48	1.79	36.81	99.98	331.13	5	333826	60	4	0	1
1660	1,6,10,16,18,19,22,25,29,36,35,37,42,49,53,54	157517	21	53542	134067	107116	31	47	2.15	34.90	96.82	336.11	6	331547	60	4	0	1
1661	1,6,10,16,18,19,22,25,29,36,38,40,42,46,48,51	168914	22	93284	144889	98075	34	52	1.92	35.15	94.54	373.79	7	386795	60	4	0	6
1662	1,6,10,16,18,19,22,25,29,36,38,40,42,46,48,52,53,54	166040	22	81703	142015	105309	32	51	2.05	35.55	94.54	365.10	6	355796	60	4	0	6
1663	1,6,10,16,18,19,22,25,29,36,38,40,42,47,50,54	158249	23	54135	134223	117158	34	48	2.05	37.87	100.27	330.02	5	334329	60	4	0	6
1664	1,6,10,16,18,19,22,25,29,36,38,40,42,49,53,54	157865	22	53504	133840	116774	32	47	2.41	35.96	97.11	335.00	6	332050	60	4	0	6
1665	1,6,10,16,18,19,22,25,29,36,38,41,44,55	162371	19	77889	132124	115059	31	47	1.92	37.03	98.40	342.93	5	365585	60	4	0	6
1666	1,6,10,16,18,19,22,25,29,36,38,41,45,55	177355	23	105209	139698	108443	36	52	2.33	41.38	118.45	362.19	5	421588	60	4	0	6
1667	1,6,10,16,18,19,22,25,29,36,38,43,47,46,48,51	168930	21	93340	145480	98667	34	52	1.92	35.15	95.35	373.93	7	387051	60	4	0	6
1668	1,6,10,16,18,19,22,25,29,36,38,43,47,46,48,52,53,54	166056	21	81760	142606	105901	32	51	2.05	35.55	95.35	365.24	6	356052	60	4	0	6
1669	1,6,10,16,18,19,22,25,29,36,38,43,47,49,53,54	157881	22	53560	134431	117366	32	47	2.41	35.96	97.92	335.14	6	332306	60	4	0	6
1670	1,6,10,16,18,19,22,25,29,36,38,43,50,54	157002	20	52929	133552	116487	32	48	2.05	37.87	99.00	328.55	5	329532	60	4	0	6
1671	1,6,10,16,18,19,22,25,29,39,41,40,42,46,48,51	170685	21	120353	142338	80099	31	55	1.76	33.99	127.24	339.20	7	417399	60	4	0	1
1672	1,6,10,16,18,19,22,25,29,39,41,40,42,46,48,52,53,54	167811	21	108773	139463	87333	29	54	1.89	34.39	127.24	330.51	6	386400	60	4	0	1
1673	1,6,10,16,18,19,22,25,29,39,41,40,42,47,50,54	160019	22	81205	131672	99182	31	51	1.89	36.71	132.97	295.43	5	364934	60	4	0	1
1674	1,6,10,16,18,19,22,25,29,39,41,40,42,49,53,54	159635	21	80573	131288	98798	29	50	2.25	34.80	129.81	300.41	6	362655	60	4	0	1
1675	1,6,10,16,18,19,22,25,29,39,41,43,47,46,48,51	170701	22	120410	142929	80690	31	55	1.76	33.99	128.05	339.34	7	417655	60	4	0	1
1676	1,6,10,16,18,19,22,25,29,39,41,43,47,46,48,52,53,54	167827	22	108829	140055	87925	29	54	1.89	34.39	128.05	330.65	6	386656	60	4	0	1
1677	1,6,10,16,18,19,22,25,29,39,41,43,47,49,53,54	159652	23	80630	131879	99390	29	50	2.25	34.80	130.62	300.55	6	362911	60	4	0	1
1678	1,6,10,16,18,19,22,25,29,39,41,43,50,54	158772	21	79998	131000	98510	29	51	1.89	36.71	131.70	293.96	5	360137	60	4	0	1
1679	1,6,10,16,18,19,22,25,29,39,44,55	150548	16	91365	129573	97083	28	46	1.76	35.87	131.10	289.81	5	356112	60	4	0	1
1680	1,6,10,16,18,19,22,25,29,39,45,55	165532	20	118685	137147	90467	33	51	2.17	40.22	151.15	309.07	5	412114	60	4	0	1
1681	1,6,10,16,18,21,27,26,30,32,46,47,50,54	167917	27	73153	137241	109799	37	54	1.60	42.80	95.20	377.58	5	372011	40.5	4	1	5
1682	1,6,10,16,18,21,27,26,30,32,46,49,53,54	167533	26	72521	136857	109415	35	53	1.97	40.90	92.04	381.98	6	369732	40.5	4	1	5
1683	1,6,10,16,18,21,27,26,30,32,48,51	163126	24	96844	132449	83112	37	56	1.48	40.08	89.46	368.13	5	402215	40.5	4	1	5

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
1684	1,6,10,16,18,21,27,26,30,32,48,52,53,54	160251	24	85263	129575	90346	35	55	1.60	40.49	89.46	359.44	4	371216	40.5	4	1	5
1685	1,6,10,16,18,21,27,26,31,34,35,37,40,41,44,55	151849	22	44115	137375	113375	32	43	1.90	37.53	79.90	355.69	5	274037	29.5	4	1	1
1686	1,6,10,16,18,21,27,26,31,34,35,37,40,41,45,55	166833	26	71434	144948	106759	37	48	2.30	41.88	99.95	374.95	5	330039	29.5	4	1	1
1687	1,6,10,16,18,21,27,26,31,34,35,37,40,43,47,46,48,51	158408	26	59565	150731	96983	35	48	1.90	35.65	76.85	386.54	7	295502	29.5	4	1	1
1688	1,6,10,16,18,21,27,26,31,34,35,37,40,43,47,46,48,52,53,54	155534	26	47985	147856	104217	33	47	2.02	36.05	76.85	377.84	6	264503	29.5	4	1	1
1689	1,6,10,16,18,21,27,26,31,34,35,37,40,43,47,49,53,54	147359	27	19785	139681	115682	33	43	2.39	36.46	79.43	347.75	6	240757	29.5	4	1	1
1690	1,6,10,16,18,21,27,26,31,34,35,37,40,43,50,54	146480	25	19154	138802	114803	33	44	2.02	38.37	80.51	341.15	5	237983	29.5	4	1	1
1691	1,6,10,16,18,21,27,26,31,34,35,37,42,46,48,51	157242	23	58358	150139	96391	33	48	1.90	35.65	76.04	385.54	7	290785	29.5	4	1	1
1692	1,6,10,16,18,21,27,26,31,34,35,37,42,46,48,52,53,54	154368	23	46778	147265	103625	31	47	2.02	36.05	76.04	376.84	6	259786	29.5	4	1	1
1693	1,6,10,16,18,21,27,26,31,34,35,37,42,47,50,54	146576	24	19210	139474	115475	33	44	2.02	38.37	81.77	341.76	5	238320	29.5	4	1	1
1694	1,6,10,16,18,21,27,26,31,34,35,37,42,49,53,54	146192	23	18579	139090	115091	31	43	2.39	36.46	78.61	346.75	6	236041	29.5	4	1	1
1695	1,6,10,16,18,21,27,26,31,34,36,39,41,40,42,46,48,51	168988	26	95018	152039	88074	33	51	2.00	35.55	124.88	356.44	7	357448	29.5	4	1	1
1696	1,6,10,16,18,21,27,26,31,34,36,39,41,40,42,46,48,52,53,54	166114	26	83438	149165	95308	31	50	2.12	35.95	124.88	347.75	6	326449	29.5	4	1	1
1697	1,6,10,16,18,21,27,26,31,34,36,39,41,40,42,47,50,54	158323	27	55870	141373	107157	33	47	2.12	38.27	130.61	312.67	5	304983	29.5	4	1	1
1698	1,6,10,16,18,21,27,26,31,34,36,39,41,40,42,49,53,54	157939	26	55239	140989	106773	31	46	2.49	36.36	127.45	317.65	6	302704	29.5	4	1	1
1699	1,6,10,16,18,21,27,26,31,34,36,39,41,43,47,46,48,51	169005	27	95075	152630	88665	33	51	2.00	35.55	125.69	356.59	7	357704	29.5	4	1	1
1700	1,6,10,16,18,21,27,26,31,34,36,39,41,43,47,46,48,52,53,54	166130	27	83494	149756	95899	31	50	2.12	35.95	125.69	347.89	6	326705	29.5	4	1	1
1701	1,6,10,16,18,21,27,26,31,34,36,39,41,43,47,49,53,54	157955	28	55295	141581	107364	31	46	2.49	36.36	128.27	317.80	6	302960	29.5	4	1	1
1702	1,6,10,16,18,21,27,26,31,34,36,39,41,43,50,54	157076	26	54663	140702	106485	31	47	2.12	38.27	129.35	311.20	5	300186	29.5	4	1	1
1703	1,6,10,16,18,21,27,26,31,34,36,39,44,55	148852	21	66030	139274	105058	30	42	2.00	37.43	128.74	307.05	5	296161	29.5	4	1	1
1704	1,6,10,16,18,21,27,26,31,34,36,39,45,55	163836	25	93350	146848	98441	35	47	2.40	41.78	148.79	326.31	5	352163	29.5	4	1	1
1705	1,6,10,16,18,21,27,26,31,34,38,40,42,46,48,51	157590	23	58321	149912	106050	34	48	2.16	36.71	76.33	384.45	7	291288	29.5	4	1	6
1706	1,6,10,16,18,21,27,26,31,34,38,40,42,46,48,52,53,54	154715	23	46740	147037	113284	32	47	2.28	37.11	76.33	375.76	6	260289	29.5	4	1	6
1707	1,6,10,16,18,21,27,26,31,34,38,40,42,47,50,54	146924	24	19172	139246	125133	34	44	2.28	39.43	82.07	340.68	5	238823	29.5	4	1	6
1708	1,6,10,16,18,21,27,26,31,34,38,40,42,49,53,54	146540	23	18541	138862	124749	32	43	2.65	37.52	78.90	345.66	6	236544	29.5	4	1	6
1709	1,6,10,16,18,21,27,26,31,34,38,41,44,55	151047	20	42926	137147	123034	31	43	2.16	38.59	80.19	353.60	5	270079	29.5	4	1	6
1710	1,6,10,16,18,21,27,26,31,34,38,41,45,55	166031	24	70246	144721	116417	36	48	2.56	42.94	100.24	372.86	5	326081	29.5	4	1	6
1711	1,6,10,16,18,21,27,26,31,34,38,43,47,46,48,51	157606	22	58377	150503	106641	34	48	2.16	36.71	77.15	384.60	7	291544	29.5	4	1	6
1712	1,6,10,16,18,21,27,26,31,34,38,43,47,46,48,52,53,54	154732	22	46797	147629	113875	32	47	2.28	37.11	77.15	375.91	6	260545	29.5	4	1	6
1713	1,6,10,16,18,21,27,26,31,34,38,43,47,49,53,54	146556	23	18597	139453	125340	32	43	2.65	37.52	79.72	345.81	6	236800	29.5	4	1	6
1714	1,6,10,16,18,21,27,26,31,34,38,43,50,54	145677	21	17966	138574	124461	32	44	2.28	39.43	80.80	339.21	5	234026	29.5	4	1	6
1715	1,6,10,16,18,21,27,26,33,37,40,41,44,55	151273	18	43088	137212	108559	32	44	1.90	36.54	80.32	354.26	5	272751	29.5	4	1	1
1716	1,6,10,16,18,21,27,26,33,37,40,41,45,55	166257	22	70408	144786	101942	37	49	2.30	40.89	100.38	373.52	5	328753	29.5	4	1	1
1717	1,6,10,16,18,21,27,26,33,37,40,43,47,46,48,51	157832	22	58539	150568	92166	35	49	1.90	34.66	77.28	385.11	7	294216	29.5	4	1	1
1718	1,6,10,16,18,21,27,26,33,37,40,43,47,46,48,52,53,54	154958	22	46959	147694	99400	33	48	2.02	35.06	77.28	376.41	6	263217	29.5	4	1	1
1719	1,6,10,16,18,21,27,26,33,37,40,43,47,49,53,54	146783	23	18759	139518	110865	33	44	2.39	35.47	79.85	346.32	6	239471	29.5	4	1	1
1720	1,6,10,16,18,21,27,26,33,37,40,43,50,54	145904	21	18128	138639	109986	33	45	2.02	37.38	80.93	339.72	5	236697	29.5	4	1	1
1721	1,6,10,16,18,21,27,26,33,37,42,46,48,51	156666	19	57332	149977	91575	33	49	1.90	34.66	76.47	384.11	7	289499	29.5	4	1	1
1722	1,6,10,16,18,21,27,26,33,37,42,46,48,52,53,54	153792	19	45752	147102	98809	31	48	2.02	35.06	76.47	375.41	6	258500	29.5	4	1	1
1723	1,6,10,16,18,21,27,26,33,37,42,47,50,54	146000	20	18184	139311	110658	33	45	2.02	37.38	82.20	340.33	5	237034	29.5	4	1	1
1724	1,6,10,16,18,21,27,26,33,37,42,49,53,54	145616	19	17552	138927	110274	31	44	2.39	35.47	79.04	345.32	6	234755	29.5	4	1	1
1725	1,6,10,16,18,21,28,31,30,32,46,47,50,54	167275	25	70880	137441	112565	37	54	1.60	41.64	101.25	370.60	5	366034	40.5	4	0	5
1726	1,6,10,16,18,21,28,31,30,32,46,49,53,54	166891	24	70248	137057	112181	35	53	1.97	39.73	98.08	374.99	6	363755	40.5	4	0	5
1727	1,6,10,16,18,21,28,31,30,32,48,51	162483	22	94571	132649	85878	37	56	1.48	38.92	95.51	361.15	5	396238	40.5	4	0	5
1728	1,6,10,16,18,21,28,31,30,32,48,52,53,54	159609	22	82990	129775	93112	35	55	1.60	39.32	95.51	352.46	4	365239	40.5	4	0	5
1729	1,6,10,16,18,21,28,31,33,37,40,41,44,55	150631	18	40815	137412	111325	32	44	1.90	35.38	86.37	347.22	5	266774	29.5	4	0	1
1730	1,6,10,16,18,21,28,31,33,37,40,41,45,55	165615	22	68135	144986	104709	37	49	2.30	39.73	106.42	366.48	5	322776	29.5	4	0	1
1731	1,6,10,16,18,21,28,31,33,37,40,43,47,46,48,51	157190	22	56266	150768	94932	35	49	1.90	33.50	83.33	378.07	7	288239	29.5	4	0	1
1732	1,6,10,16,18,21,28,31,33,37,40,43,47,46,48,52,53,54	154316	22	44686	147894	102166	33	48	2.02	33.90	83.33	369.38	6	257240	29.5	4	0	1
1733	1,6,10,16,18,21,28,31,33,37,40,43,47,49,53,54	146140	23	16486	139718	113631	33	44	2.39	34.31	85.90	339.28	6	233495	29.5	4	0	1
1734	1,6,10,16,18,21,28,31,33,37,40,43,50,54	145261	21	15855	138839	112752	33	45	2.02	36.22	86.98	332.68	5	230721	29.5	4	0	1

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
1735	1,6,10,16,18,21,28,31,33,37,42,46,48,51	156023	19	55059	150177	94341	33	49	1.90	33.50	82.51	377.07	7	283523	29.5	4	0	1
1736	1,6,10,16,18,21,28,31,33,37,42,46,48,52,53,54	153149	19	43479	147302	101575	31	48	2.02	33.90	82.51	368.38	6	252524	29.5	4	0	1
1737	1,6,10,16,18,21,28,31,33,37,42,47,50,54	145358	20	15911	139511	113424	33	45	2.02	36.22	88.25	333.30	5	231057	29.5	4	0	1
1738	1,6,10,16,18,21,28,31,33,37,42,49,53,54	144974	19	15279	139127	113040	31	44	2.39	34.31	85.09	338.28	6	228778	29.5	4	0	1
1739	1,6,10,16,18,21,28,34,35,37,40,41,44,55	150380	18	41015	137575	116142	32	43	1.90	36.37	85.33	346.53	5	263927	29.5	4	0	1
1740	1,6,10,16,18,21,28,34,35,37,40,41,45,55	165364	22	68334	145148	109525	37	48	2.30	40.72	105.38	365.79	5	319929	29.5	4	0	1
1741	1,6,10,16,18,21,28,34,35,37,40,43,47,46,48,51	156939	22	56465	150931	99749	35	48	1.90	34.49	82.28	377.38	7	285392	29.5	4	0	1
1742	1,6,10,16,18,21,28,34,35,37,40,43,47,46,48,52,53,54	154065	22	44885	148056	106983	33	47	2.02	34.89	82.28	368.69	6	254393	29.5	4	0	1
1743	1,6,10,16,18,21,28,34,35,37,40,43,47,49,53,54	145890	23	16686	139881	118448	33	43	2.39	35.30	84.86	338.59	6	230648	29.5	4	0	1
1744	1,6,10,16,18,21,28,34,35,37,40,43,50,54	145011	21	16054	139002	117569	33	44	2.02	37.21	85.94	331.99	5	227874	29.5	4	0	1
1745	1,6,10,16,18,21,28,34,35,37,42,46,48,51	155773	19	55259	150339	99158	33	48	1.90	34.49	81.47	376.38	7	280676	29.5	4	0	1
1746	1,6,10,16,18,21,28,34,35,37,42,46,48,52,53,54	152899	19	43679	147465	106392	31	47	2.02	34.89	81.47	367.69	6	249677	29.5	4	0	1
1747	1,6,10,16,18,21,28,34,35,37,42,47,50,54	145107	20	16111	139674	118241	33	44	2.02	37.21	87.20	332.61	5	228210	29.5	4	0	1
1748	1,6,10,16,18,21,28,34,35,37,42,49,53,54	144723	19	15479	139290	117857	31	43	2.39	35.30	84.04	337.59	6	225932	29.5	4	0	1
1749	1,6,10,16,18,21,28,34,36,39,41,40,42,46,48,51	167519	22	91919	152239	90840	33	51	2.00	34.39	130.31	347.29	7	347339	29.5	4	0	1
1750	1,6,10,16,18,21,28,34,36,39,41,40,42,46,48,52,53,54	164645	22	80338	149365	98074	31	50	2.12	34.79	130.31	338.60	6	316340	29.5	4	0	1
1751	1,6,10,16,18,21,28,34,36,39,41,40,42,47,50,54	156854	23	52771	141574	109923	33	47	2.12	37.11	136.04	303.51	5	294873	29.5	4	0	1
1752	1,6,10,16,18,21,28,34,36,39,41,40,42,49,53,54	156470	22	52139	141190	109539	31	46	2.49	35.20	132.88	308.50	6	292594	29.5	4	0	1
1753	1,6,10,16,18,21,28,34,36,39,41,43,47,46,48,51	167536	23	91975	152831	91431	33	51	2.00	34.39	131.12	347.43	7	347595	29.5	4	0	1
1754	1,6,10,16,18,21,28,34,36,39,41,43,47,46,48,52,53,54	164661	23	80395	149956	98665	31	50	2.12	34.79	131.12	338.74	6	316596	29.5	4	0	1
1755	1,6,10,16,18,21,28,34,36,39,41,43,47,49,53,54	156486	24	52195	141781	110130	31	46	2.49	35.20	133.70	308.64	6	292850	29.5	4	0	1
1756	1,6,10,16,18,21,28,34,36,39,41,43,50,54	155607	22	51564	140902	109251	31	47	2.12	37.11	134.78	302.04	5	290076	29.5	4	0	1
1757	1,6,10,16,18,21,28,34,36,39,44,55	147383	17	62931	139475	107824	30	42	2.00	36.27	134.17	297.90	5	286051	29.5	4	0	1
1758	1,6,10,16,18,21,28,34,36,39,45,55	162366	21	90250	147048	101208	35	47	2.40	40.62	154.22	317.15	5	342054	29.5	4	0	1
1759	1,6,10,16,18,21,28,34,38,40,42,46,48,51	156121	19	55221	150112	108816	34	48	2.16	35.55	81.76	375.30	7	281179	29.5	4	0	6
1760	1,6,10,16,18,21,28,34,38,40,42,46,48,52,53,54	153246	19	43641	147238	116050	32	47	2.28	35.95	81.76	366.61	6	250180	29.5	4	0	6
1761	1,6,10,16,18,21,28,34,38,40,42,47,50,54	145455	20	16073	139446	127899	34	44	2.28	38.27	87.50	331.53	5	228713	29.5	4	0	6
1762	1,6,10,16,18,21,28,34,38,40,42,49,53,54	145071	19	15441	139062	127515	32	43	2.65	36.36	84.34	336.51	6	226435	29.5	4	0	6
1763	1,6,10,16,18,21,28,34,38,41,44,55	149578	16	39827	137347	125800	31	43	2.16	37.43	85.62	344.44	5	259970	29.5	4	0	6
1764	1,6,10,16,18,21,28,34,38,41,45,55	164561	20	67146	144921	119184	36	48	2.56	41.78	105.67	363.70	5	315972	29.5	4	0	6
1765	1,6,10,16,18,21,28,34,38,43,47,46,48,51	156137	18	55277	150703	109407	34	48	2.16	35.55	82.58	375.44	7	281435	29.5	4	0	6
1766	1,6,10,16,18,21,28,34,38,43,47,46,48,52,53,54	153262	18	43697	147829	116641	32	47	2.28	35.95	82.58	366.75	6	250436	29.5	4	0	6
1767	1,6,10,16,18,21,28,34,38,43,47,49,53,54	145087	19	15498	139654	128107	32	43	2.65	36.36	85.15	336.65	6	226690	29.5	4	0	6
1768	1,6,10,16,18,21,28,34,38,43,50,54	144208	17	14866	138774	127227	32	44	2.28	38.27	86.23	330.06	5	223916	29.5	4	0	6
1769	1,6,10,16,20,23,26,30,32,46,47,50,54	167142	23	67830	139081	109339	35	52	2.09	44.57	106.17	365.43	5	351100	39	4	1	5
1770	1,6,10,16,20,23,26,30,32,46,49,53,54	166758	22	67198	138697	108955	33	51	2.46	42.66	103.01	369.83	6	348821	39	4	1	5
1771	1,6,10,16,20,23,26,30,32,48,51	162350	20	91521	134289	82652	35	54	1.96	41.85	100.44	355.99	5	381304	39	4	1	5
1772	1,6,10,16,20,23,26,30,32,48,52,53,54	159476	20	79941	131415	89886	33	53	2.09	42.25	100.44	347.30	4	350305	39	4	1	5
1773	1,6,10,16,20,23,26,31,34,35,37,40,41,44,55	151074	18	38792	139214	112916	30	41	2.38	39.29	90.87	343.55	5	253126	28	4	1	1
1774	1,6,10,16,20,23,26,31,34,35,37,40,41,45,55	166058	22	66111	146788	106299	35	46	2.79	43.64	110.93	362.80	5	309128	28	4	1	1
1775	1,6,10,16,20,23,26,31,34,35,37,40,43,47,46,48,51	157633	22	54242	152571	96523	33	46	2.38	37.41	87.83	374.39	7	274591	28	4	1	1
1776	1,6,10,16,20,23,26,31,34,35,37,40,43,47,46,48,52,53,54	154759	22	42662	149696	103757	31	45	2.51	37.81	87.83	365.70	6	243592	28	4	1	1
1777	1,6,10,16,20,23,26,31,34,35,37,40,43,47,49,53,54	146584	23	14463	141521	115222	31	41	2.87	38.22	90.40	335.60	6	219847	28	4	1	1
1778	1,6,10,16,20,23,26,31,34,35,37,40,43,50,54	145704	21	13831	140642	114343	31	42	2.51	40.13	91.48	329.01	5	217073	28	4	1	1
1779	1,6,10,16,20,23,26,31,34,35,37,42,46,48,51	156467	19	53035	151979	95932	31	46	2.38	37.41	87.01	373.39	7	269875	28	4	1	1
1780	1,6,10,16,20,23,26,31,34,35,37,42,46,48,52,53,54	153592	19	41455	149105	103166	29	45	2.51	37.81	87.01	364.70	6	238876	28	4	1	1
1781	1,6,10,16,20,23,26,31,34,35,37,42,47,50,54	145801	20	13887	141314	115015	31	42	2.51	40.13	92.75	329.62	5	217409	28	4	1	1
1782	1,6,10,16,20,23,26,31,34,35,37,42,49,53,54	145417	19	13256	140930	114631	29	41	2.87	38.22	89.59	334.60	6	215130	28	4	1	1
1783	1,6,10,16,20,23,26,31,34,36,39,41,40,42,46,48,51	168213	22	89695	153879	87614	31	49	2.48	37.31	135.85	344.30	7	336538	28	4	1	1
1784	1,6,10,16,20,23,26,31,34,36,39,41,40,42,46,48,52,53,54	165339	22	78115	151005	94848	29	48	2.61	37.71	135.85	335.61	6	305538	28	4	1	1
1785	1,6,10,16,20,23,26,31,34,36,39,41,40,42,47,50,54	157548	23	50547	143213	106697	31	45	2.61	40.03	141.59	300.53	5	284072	28	4	1	1

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
1786	1,6,10,16,20,23,26,31,34,36,39,41,40,42,49,53,54	157164	22	49916	142829	106313	29	44	2.98	38.12	138.43	305.51	6	281793	28	4	1	1
1787	1,6,10,16,20,23,26,31,34,36,39,41,43,47,46,48,51	168230	23	89752	154470	88205	31	49	2.48	37.31	136.67	344.44	7	336793	28	4	1	1
1788	1,6,10,16,20,23,26,31,34,36,39,41,43,47,46,48,52,53,54	165355	23	78172	151596	95439	29	48	2.61	37.71	136.67	335.75	6	305794	28	4	1	1
1789	1,6,10,16,20,23,26,31,34,36,39,41,43,47,49,53,54	157180	24	49972	143421	106904	29	44	2.98	38.12	139.24	305.65	6	282049	28	4	1	1
1790	1,6,10,16,20,23,26,31,34,36,39,41,43,50,54	156301	22	49340	142542	106025	29	45	2.61	40.03	140.32	299.05	5	279275	28	4	1	1
1791	1,6,10,16,20,23,26,31,34,36,39,44,55	148077	17	60707	141114	104598	28	40	2.48	39.20	139.71	294.91	5	275250	28	4	1	1
1792	1,6,10,16,20,23,26,31,34,36,39,45,55	163060	21	88027	148688	97981	33	45	2.89	43.54	159.77	314.16	5	331252	28	4	1	1
1793	1,6,10,16,20,23,26,31,34,38,40,42,46,48,51	156815	19	52998	151752	105590	32	46	2.64	38.47	87.31	372.31	7	270378	28	4	1	6
1794	1,6,10,16,20,23,26,31,34,38,40,42,46,48,52,53,54	153940	19	41418	148877	112824	30	45	2.77	38.87	87.31	363.62	6	239379	28	4	1	6
1795	1,6,10,16,20,23,26,31,34,38,40,42,47,50,54	146149	20	13850	141086	124673	32	42	2.77	41.19	93.04	328.54	5	217912	28	4	1	6
1796	1,6,10,16,20,23,26,31,34,38,40,42,49,53,54	145765	19	13218	140702	124289	30	41	3.13	39.28	89.88	333.52	6	215633	28	4	1	6
1797	1,6,10,16,20,23,26,31,34,38,41,44,55	150272	16	37604	138987	122574	29	41	2.64	40.36	91.16	341.45	5	249168	28	4	1	6
1798	1,6,10,16,20,23,26,31,34,38,41,45,55	165255	20	64923	146561	115958	34	46	3.05	44.70	111.22	360.71	5	305171	28	4	1	6
1799	1,6,10,16,20,23,26,31,34,38,43,47,46,48,51	156831	18	53054	152343	106181	32	46	2.64	38.47	88.12	372.45	7	270633	28	4	1	6
1800	1,6,10,16,20,23,26,31,34,38,43,47,46,48,52,53,54	153956	18	41474	149469	113415	30	45	2.77	38.87	88.12	363.76	6	239634	28	4	1	6
1801	1,6,10,16,20,23,26,31,34,38,43,47,49,53,54	145781	19	13274	141293	124881	30	41	3.13	39.28	90.69	333.66	6	215889	28	4	1	6
1802	1,6,10,16,20,23,26,31,34,38,43,50,54	144902	17	12643	140414	124001	30	42	2.77	41.19	91.77	327.07	5	213115	28	4	1	6
1803	1,6,10,16,20,23,26,33,37,40,41,44,55	150498	14	37765	139052	108099	30	42	2.38	38.30	91.30	342.12	5	251840	28	4	1	1
1804	1,6,10,16,20,23,26,33,37,40,41,45,55	165482	18	65085	146626	101482	35	47	2.79	42.65	111.35	361.37	5	307842	28	4	1	1
1805	1,6,10,16,20,23,26,33,37,40,43,47,46,48,51	157057	18	53216	152408	91706	33	47	2.38	36.42	88.25	372.96	7	273305	28	4	1	1
1806	1,6,10,16,20,23,26,33,37,40,43,47,46,48,52,53,54	154183	18	41636	149534	98940	31	46	2.51	36.82	88.25	364.27	6	242306	28	4	1	1
1807	1,6,10,16,20,23,26,33,37,40,43,47,49,53,54	146008	19	13436	141358	110405	31	42	2.87	37.23	90.83	334.17	6	218561	28	4	1	1
1808	1,6,10,16,20,23,26,33,37,40,43,50,54	145128	17	12805	140479	109526	31	43	2.51	39.14	91.91	327.58	5	215787	28	4	1	1
1809	1,6,10,16,20,23,26,33,37,42,46,48,51	155891	15	52009	151817	91115	31	47	2.38	36.42	87.44	371.96	7	268588	28	4	1	1
1810	1,6,10,16,20,23,26,33,37,42,46,48,52,53,54	153016	15	40429	148942	98349	29	46	2.51	36.82	87.44	363.27	6	237589	28	4	1	1
1811	1,6,10,16,20,23,26,33,37,42,47,50,54	145225	16	12861	141151	110198	31	43	2.51	39.14	93.17	328.19	5	216123	28	4	1	1
1812	1,6,10,16,20,23,26,33,37,42,49,53,54	144841	15	12230	140767	109814	29	42	2.87	37.23	90.01	333.17	6	213844	28	4	1	1
1813	1,6,10,16,20,23,27,28,31,30,32,46,47,50,54	167453	23	66510	139281	112105	35	52	2.09	43.40	115.31	358.45	5	348937	39	4	0	5
1814	1,6,10,16,20,23,27,28,31,30,32,46,49,53,54	167069	22	65879	138897	111721	33	51	2.46	41.49	112.15	362.85	6	346659	39	4	0	5
1815	1,6,10,16,20,23,27,28,31,30,32,48,51	162661	20	90201	134489	85418	35	54	1.96	40.68	109.58	349.00	5	379141	39	4	0	5
1816	1,6,10,16,20,23,27,28,31,30,32,48,52,53,54	159787	20	78621	131615	92653	33	53	2.09	41.09	109.58	340.31	4	348142	39	4	0	5
1817	1,6,10,16,20,23,27,28,31,33,37,40,41,44,55	150809	16	36446	139252	110865	30	42	2.38	37.14	100.44	335.08	5	249677	28	4	0	1
1818	1,6,10,16,20,23,27,28,31,33,37,40,41,45,55	165793	20	63765	146826	104249	35	47	2.79	41.49	120.49	354.34	5	305680	28	4	0	1
1819	1,6,10,16,20,23,27,28,31,33,37,40,43,47,46,48,51	157368	20	51896	152608	94472	33	47	2.38	35.26	97.40	365.92	7	271142	28	4	0	1
1820	1,6,10,16,20,23,27,28,31,33,37,40,43,47,46,48,52,53,54	154494	20	40316	149734	101707	31	46	2.51	35.66	97.40	357.23	6	240143	28	4	0	1
1821	1,6,10,16,20,23,27,28,31,33,37,40,43,47,49,53,54	146319	21	12117	141558	113172	31	42	2.87	36.07	99.97	327.13	6	216398	28	4	0	1
1822	1,6,10,16,20,23,27,28,31,33,37,40,43,50,54	145439	19	11485	140679	112292	31	43	2.51	37.98	101.05	320.54	5	213624	28	4	0	1
1823	1,6,10,16,20,23,27,28,31,33,37,42,46,48,51	156202	17	50690	152017	93881	31	47	2.38	35.26	96.58	364.92	7	266426	28	4	0	1
1824	1,6,10,16,20,23,27,28,31,33,37,42,46,48,52,53,54	153327	17	39110	149142	101115	29	46	2.51	35.66	96.58	356.23	6	235427	28	4	0	1
1825	1,6,10,16,20,23,27,28,31,33,37,42,47,50,54	145536	18	11542	141351	112964	31	43	2.51	37.98	102.32	321.15	5	213960	28	4	0	1
1826	1,6,10,16,20,23,27,28,31,33,37,42,49,53,54	145152	17	10910	140967	112580	29	42	2.87	36.07	99.16	326.13	6	211682	28	4	0	1
1827	1,6,10,16,20,23,27,28,34,35,37,40,41,44,55	150559	16	36646	139415	115682	30	41	2.38	38.13	99.40	334.39	5	246830	28	4	0	1
1828	1,6,10,16,20,23,27,28,34,35,37,40,41,45,55	165542	20	63965	146988	109065	35	46	2.79	42.48	119.45	353.65	5	302833	28	4	0	1
1829	1,6,10,16,20,23,27,28,34,35,37,40,43,47,46,48,51	157118	20	52096	152771	99289	33	46	2.38	36.25	96.35	365.23	7	268296	28	4	0	1
1830	1,6,10,16,20,23,27,28,34,35,37,40,43,47,46,48,52,53,54	154243	20	40516	149896	106523	31	45	2.51	36.65	96.35	356.54	6	237296	28	4	0	1
1831	1,6,10,16,20,23,27,28,34,35,37,40,43,47,49,53,54	146068	21	12316	141721	117988	31	41	2.87	37.06	98.93	326.44	6	213551	28	4	0	1
1832	1,6,10,16,20,23,27,28,34,35,37,40,43,50,54	145189	19	11685	140842	117109	31	42	2.51	38.97	100.01	319.85	5	210777	28	4	0	1
1833	1,6,10,16,20,23,27,28,34,35,37,42,46,48,51	155951	17	50889	152179	98698	31	46	2.38	36.25	95.54	364.23	7	263579	28	4	0	1
1834	1,6,10,16,20,23,27,28,34,35,37,42,46,48,52,53,54	153077	17	39309	149305	105932	29	45	2.51	36.65	95.54	355.54	6	232580	28	4	0	1
1835	1,6,10,16,20,23,27,28,34,35,37,42,47,50,54	145286	18	11741	141514	117781	31	42	2.51	38.97	101.27	320.46	5	211114	28	4	0	1
1836	1,6,10,16,20,23,27,28,34,35,37,42,49,53,54	144902	17	11110	141130	117397	29	41	2.87	37.06	98.11	325.44	6	208835	28	4	0	1

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
1837	1,6,10,16,20,23,27,28,34,36,39,41,40,42,46,48,51	167698	20	87549	154079	90380	31	49	2.48	36.15	144.38	335.14	7	330242	28	4	0	1
1838	1,6,10,16,20,23,27,28,34,36,39,41,40,42,46,48,52,53,54	164823	20	75969	151205	97614	29	48	2.61	36.55	144.38	326.45	6	299243	28	4	0	1
1839	1,6,10,16,20,23,27,28,34,36,39,41,40,42,47,50,54	157032	21	48401	143414	109463	31	45	2.61	38.87	150.11	291.37	5	277776	28	4	0	1
1840	1,6,10,16,20,23,27,28,34,36,39,41,40,42,49,53,54	156648	20	47770	143030	109079	29	44	2.98	36.96	146.95	296.35	6	275498	28	4	0	1
1841	1,6,10,16,20,23,27,28,34,36,39,41,43,47,46,48,51	167714	21	87606	154671	90971	31	49	2.48	36.15	145.19	335.28	7	330498	28	4	0	1
1842	1,6,10,16,20,23,27,28,34,36,39,41,43,47,46,48,52,53,54	164840	21	76025	151796	98206	29	48	2.61	36.55	145.19	326.59	6	299499	28	4	0	1
1843	1,6,10,16,20,23,27,28,34,36,39,41,43,47,49,53,54	156664	22	47826	143621	109671	29	44	2.98	36.96	147.77	296.49	6	275753	28	4	0	1
1844	1,6,10,16,20,23,27,28,34,36,39,41,43,50,54	155785	20	47194	142742	108791	29	45	2.61	38.87	148.85	289.90	5	272979	28	4	0	1
1845	1,6,10,16,20,23,27,28,34,36,39,44,55	147561	15	58561	141314	107364	28	40	2.48	38.03	148.24	285.75	5	268954	28	4	0	1
1846	1,6,10,16,20,23,27,28,34,36,39,45,55	162545	19	85881	148888	100748	33	45	2.89	42.38	168.29	305.01	5	324957	28	4	0	1
1847	1,6,10,16,20,23,27,28,34,38,40,42,46,48,51	156299	17	50852	151952	108356	32	46	2.64	37.31	95.83	363.15	7	264082	28	4	0	6
1848	1,6,10,16,20,23,27,28,34,38,40,42,46,48,52,53,54	153425	17	39271	149078	115590	30	45	2.77	37.71	95.83	354.46	6	233083	28	4	0	6
1849	1,6,10,16,20,23,27,28,34,38,40,42,47,50,54	145633	18	11703	141286	127439	32	42	2.77	40.03	101.57	319.38	5	211617	28	4	0	6
1850	1,6,10,16,20,23,27,28,34,38,40,42,49,53,54	145249	17	11072	140902	127055	30	41	3.13	38.12	98.41	324.36	6	209338	28	4	0	6
1851	1,6,10,16,20,23,27,28,34,38,41,44,55	149756	14	35457	139187	125340	29	41	2.64	39.19	99.69	332.30	5	242873	28	4	0	6
1852	1,6,10,16,20,23,27,28,34,38,41,45,55	164740	18	62777	146761	118724	34	46	3.05	43.54	119.74	351.55	5	298875	28	4	0	6
1853	1,6,10,16,20,23,27,28,34,38,43,47,46,48,51	156315	16	50908	152543	108948	32	46	2.64	37.31	96.65	363.30	7	264338	28	4	0	6
1854	1,6,10,16,20,23,27,28,34,38,43,47,46,48,52,53,54	153441	16	39328	149669	116182	30	45	2.77	37.71	96.65	354.61	6	233339	28	4	0	6
1855	1,6,10,16,20,23,27,28,34,38,43,47,49,53,54	145265	17	11128	141494	127647	30	41	3.13	38.12	99.22	324.51	6	209594	28	4	0	6
1856	1,6,10,16,20,23,27,28,34,38,43,50,54	144386	15	10497	140614	126767	30	42	2.77	40.03	100.30	317.91	5	206820	28	4	0	6
1857	1,6,8,14,30,31,34,35,37,40,41,44,55	162971	14	105287	140532	113311	31	51	1.93	27.80	112.64	369.41	6	351656	11	4	0	1
1858	1,6,8,14,30,31,34,35,37,40,41,45,55	177955	18	132607	148106	106694	36	56	2.33	32.15	132.69	388.67	6	407658	11	4	0	1
1859	1,6,8,14,30,31,34,35,37,40,43,47,46,48,51	169530	18	120738	153888	96918	34	56	1.93	25.92	109.59	400.25	8	373121	11	4	0	1
1860	1,6,8,14,30,31,34,35,37,40,43,47,46,48,52,53,54	166656	18	109157	151014	104152	32	55	2.05	26.32	109.59	391.56	7	342122	11	4	0	1
1861	1,6,8,14,30,31,34,35,37,40,43,47,49,53,54	158480	19	80958	142839	115617	32	51	2.42	26.73	112.16	361.46	7	318377	11	4	0	1
1862	1,6,8,14,30,31,34,35,37,40,43,50,54	157601	17	80326	141960	114738	32	52	2.05	28.64	113.24	354.87	6	315603	11	4	0	1
1863	1,6,8,14,30,31,34,35,37,42,46,48,51	168363	15	119531	153297	96326	32	56	1.93	25.92	108.78	399.25	8	368405	11	4	0	1
1864	1,6,8,14,30,31,34,35,37,42,46,48,52,53,54	165489	15	107951	150423	103561	30	55	2.05	26.32	108.78	390.56	7	337406	11	4	0	1
1865	1,6,8,14,30,31,34,35,37,42,47,50,54	157698	16	80383	142631	115410	32	52	2.05	28.64	114.51	355.48	6	315939	11	4	0	1
1866	1,6,8,14,30,31,34,35,37,42,49,53,54	157314	15	79751	142247	115026	30	51	2.42	26.73	111.35	360.46	7	313660	11	4	0	1
1867	1,6,8,14,30,31,34,36,39,41,40,42,46,48,51	180110	18	156191	155197	88009	32	59	2.03	25.82	157.62	370.16	8	435068	11	4	0	1
1868	1,6,8,14,30,31,34,36,39,41,40,42,46,48,52,53,54	177236	18	144611	152323	95243	30	58	2.15	26.22	157.62	361.47	7	404069	11	4	0	1
1869	1,6,8,14,30,31,34,36,39,41,40,42,47,50,54	169444	19	117043	144531	107092	32	55	2.15	28.54	163.35	326.39	6	382602	11	4	0	1
1870	1,6,8,14,30,31,34,36,39,41,40,42,49,53,54	169060	18	116411	144147	106708	30	54	2.52	26.63	160.19	331.37	7	380323	11	4	0	1
1871	1,6,8,14,30,31,34,36,39,41,43,47,46,48,51	180126	19	156247	155788	88600	32	59	2.03	25.82	158.43	370.30	8	435323	11	4	0	1
1872	1,6,8,14,30,31,34,36,39,41,43,47,46,48,52,53,54	177252	19	144667	152914	95834	30	58	2.15	26.22	158.43	361.61	7	404324	11	4	0	1
1873	1,6,8,14,30,31,34,36,39,41,43,47,49,53,54	169076	20	116468	144739	107299	30	54	2.52	26.63	161.00	331.51	7	380579	11	4	0	1
1874	1,6,8,14,30,31,34,36,39,41,43,50,54	168197	18	115836	143859	106420	30	55	2.15	28.54	162.08	324.92	6	377805	11	4	0	1
1875	1,6,8,14,30,31,34,36,39,44,55	159973	13	127203	142432	104993	29	50	2.03	27.70	161.48	320.77	6	373780	11	4	0	1
1876	1,6,8,14,30,31,34,36,39,45,55	174957	17	154522	150006	98376	34	55	2.43	32.05	181.53	340.03	6	429782	11	4	0	1
1877	1,6,8,14,30,31,34,38,40,42,46,48,51	168711	15	119493	153070	105985	33	56	2.19	26.98	109.07	398.17	8	368908	11	4	0	6
1878	1,6,8,14,30,31,34,38,40,42,46,48,52,53,54	165837	15	107913	150195	113219	31	55	2.31	27.38	109.07	389.48	7	337909	11	4	0	6
1879	1,6,8,14,30,31,34,38,40,42,47,50,54	158045	16	80345	142404	125068	33	52	2.31	29.70	114.80	354.40	6	316442	11	4	0	6
1880	1,6,8,14,30,31,34,38,40,42,49,53,54	157661	15	79713	142020	124684	31	51	2.68	27.79	111.64	359.38	7	314163	11	4	0	6
1881	1,6,8,14,30,31,34,38,41,44,55	162168	12	104099	140305	122969	30	51	2.19	28.86	112.93	367.32	6	347698	11	4	0	6
1882	1,6,8,14,30,31,34,38,41,45,55	177152	16	131419	147879	116353	35	56	2.59	33.21	132.98	386.58	6	403701	11	4	0	6
1883	1,6,8,14,30,31,34,38,43,47,46,48,51	168727	14	119550	153661	106576	33	56	2.19	26.98	109.88	398.32	8	369164	11	4	0	6
1884	1,6,8,14,30,31,34,38,43,47,46,48,52,53,54	165853	14	107969	150787	113810	31	55	2.31	27.38	109.88	389.63	7	338165	11	4	0	6
1885	1,6,8,14,30,31,34,38,43,47,49,53,54	157678	15	79770	142611	125275	31	51	2.68	27.79	112.46	359.53	7	314419	11	4	0	6
1886	1,6,8,14,30,31,34,38,43,50,54	156798	13	79138	141732	124396	31	52	2.31	29.70	113.54	352.93	6	311645	11	4	0	6
1887	1,6,8,14,30,33,37,40,41,44,55	162395	12	104261	140370	108494	31	52	1.93	26.81	113.06	367.93	6	350370	11	4	0	1

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
1888	1,6,8,14,30,33,37,40,41,45,55	177379	16	131580	147943	101877	36	57	2.33	31.16	133.11	387.18	6	406372	11	4	0	1
1889	1,6,8,14,30,33,37,40,43,47,46,48,51	168954	16	119711	153726	92101	34	57	1.93	24.93	110.02	398.77	8	371835	11	4	0	1
1890	1,6,8,14,30,33,37,40,43,47,46,48,52,53,54	166080	16	108131	150851	99335	32	56	2.05	25.33	110.02	390.08	7	340836	11	4	0	1
1891	1,6,8,14,30,33,37,40,43,47,49,53,54	157904	17	79932	142676	110800	32	52	2.42	25.74	112.59	359.98	7	317091	11	4	0	1
1892	1,6,8,14,30,33,37,40,43,50,54	157025	15	79300	141797	109921	32	53	2.05	27.65	113.67	353.39	6	314317	11	4	0	1
1893	1,6,8,14,30,33,37,42,46,48,51	167787	13	118505	153134	91510	32	57	1.93	24.93	109.20	397.77	8	367119	11	4	0	1
1894	1,6,8,14,30,33,37,42,46,48,52,53,54	164913	13	106924	150260	98744	30	56	2.05	25.33	109.20	389.08	7	336120	11	4	0	1
1895	1,6,8,14,30,33,37,42,47,50,54	157122	14	79357	142469	110593	32	53	2.05	27.65	114.94	354.00	6	314653	11	4	0	1
1896	1,6,8,14,30,33,37,42,49,53,54	156738	13	78725	142085	110209	30	52	2.42	25.74	111.78	358.98	7	312374	11	4	0	1
1897	1,6,8,14,32,46,47,50,54	171383	17	126670	140399	109734	34	60	1.63	33.07	127.93	366.33	6	411594	19	4	0	5
1898	1,6,8,14,32,46,49,53,54	170999	16	126038	140015	109350	32	59	2.00	31.16	124.77	370.73	7	409316	19	4	0	5
1899	1,6,8,14,32,48,51	166592	14	150361	135607	83047	34	62	1.51	30.35	122.20	356.88	6	441798	19	4	0	5
1900	1,6,8,14,32,48,52,53,54	163717	14	138781	132733	90281	32	61	1.63	30.75	122.20	348.19	5	410799	19	4	0	5
1901	1,6,9,11,13,12,14,30,31,34,35,37,40,41,44,55	164960	16	82925	152151	121505	33	50	3.15	35.87	119.41	361.12	5	333152	13.5	4	0	1
1902	1,6,9,11,13,12,14,30,31,34,35,37,40,41,45,55	179943	20	110245	159725	114889	38	55	3.55	40.22	139.46	380.38	5	389155	13.5	4	0	1
1903	1,6,9,11,13,12,14,30,31,34,35,37,40,43,47,46,48,51	171519	20	98376	165507	105112	36	55	3.15	33.99	116.37	391.97	7	354617	13.5	4	0	1
1904	1,6,9,11,13,12,14,30,31,34,35,37,40,43,47,46,48,52,53,54	168644	20	86796	162633	112346	34	54	3.27	34.39	116.37	383.28	6	323618	13.5	4	0	1
1905	1,6,9,11,13,12,14,30,31,34,35,37,40,43,47,49,53,54	160469	21	58596	154458	123811	34	50	3.64	34.80	118.94	353.18	6	299873	13.5	4	0	1
1906	1,6,9,11,13,12,14,30,31,34,35,37,40,43,50,54	159590	19	57965	153578	122932	34	51	3.27	36.71	120.02	346.58	5	297099	13.5	4	0	1
1907	1,6,9,11,13,12,14,30,31,34,35,37,42,46,48,51	170352	17	97169	164916	104521	34	55	3.15	33.99	115.55	390.97	7	349901	13.5	4	0	1
1908	1,6,9,11,13,12,14,30,31,34,35,37,42,46,48,52,53,54	167478	17	85589	162042	111755	32	54	3.27	34.39	115.55	382.28	6	318902	13.5	4	0	1
1909	1,6,9,11,13,12,14,30,31,34,35,37,42,47,50,54	159687	18	58021	154250	123604	34	51	3.27	36.71	121.29	347.20	5	297435	13.5	4	0	1
1910	1,6,9,11,13,12,14,30,31,34,35,37,42,49,53,54	159303	17	57390	153866	123220	32	50	3.64	34.80	118.12	352.18	6	295157	13.5	4	0	1
1911	1,6,9,11,13,12,14,30,31,34,36,39,41,40,42,46,48,51	182099	20	133829	166816	96203	34	58	3.25	33.89	164.39	361.88	7	416564	13.5	4	0	1
1912	1,6,9,11,13,12,14,30,31,34,36,39,41,40,42,46,48,52,53,54	179224	20	122249	163941	103437	32	57	3.37	34.29	164.39	353.19	6	385565	13.5	4	0	1
1913	1,6,9,11,13,12,14,30,31,34,36,39,41,40,42,47,50,54	171433	21	94681	156150	115286	34	54	3.37	36.61	170.13	318.10	5	364098	13.5	4	0	1
1914	1,6,9,11,13,12,14,30,31,34,36,39,41,40,42,49,53,54	171049	20	94049	155766	114902	32	53	3.74	34.70	166.96	323.09	6	361819	13.5	4	0	1
1915	1,6,9,11,13,12,14,30,31,34,36,39,41,43,47,46,48,51	182115	21	133886	167407	96795	34	58	3.25	33.89	165.21	362.02	7	416820	13.5	4	0	1
1916	1,6,9,11,13,12,14,30,31,34,36,39,41,43,47,46,48,52,53,54	179241	21	122305	164533	104029	32	57	3.37	34.29	165.21	353.33	6	385821	13.5	4	0	1
1917	1,6,9,11,13,12,14,30,31,34,36,39,41,43,47,49,53,54	171065	22	94106	156357	115494	32	53	3.74	34.70	167.78	323.23	6	362075	13.5	4	0	1
1918	1,6,9,11,13,12,14,30,31,34,36,39,41,43,50,54	170186	20	93474	155478	114615	32	54	3.37	36.61	168.86	316.63	5	359301	13.5	4	0	1
1919	1,6,9,11,13,12,14,30,31,34,36,39,44,55	161962	15	104841	154051	113187	31	49	3.25	35.77	168.25	312.49	5	355276	13.5	4	0	1
1920	1,6,9,11,13,12,14,30,31,34,36,39,45,55	176946	19	132161	161625	106571	36	54	3.65	40.12	188.30	331.74	5	411279	13.5	4	0	1
1921	1,6,9,11,13,12,14,30,31,34,38,40,42,46,48,51	170700	17	97132	164688	114179	35	55	3.41	35.05	115.84	389.89	7	350404	13.5	4	0	6
1922	1,6,9,11,13,12,14,30,31,34,38,40,42,46,48,52,53,54	167826	17	85551	161814	121414	33	54	3.53	35.45	115.84	381.20	6	319405	13.5	4	0	6
1923	1,6,9,11,13,12,14,30,31,34,38,40,42,47,50,54	160034	18	57983	154023	133263	35	51	3.53	37.77	121.58	346.11	5	297938	13.5	4	0	6
1924	1,6,9,11,13,12,14,30,31,34,38,40,42,49,53,54	159650	17	57352	153639	132879	33	50	3.90	35.86	118.42	351.10	6	295660	13.5	4	0	6
1925	1,6,9,11,13,12,14,30,31,34,38,41,44,55	164157	14	81737	151924	131163	32	50	3.41	36.93	119.70	359.03	5	329195	13.5	4	0	6
1926	1,6,9,11,13,12,14,30,31,34,38,41,45,55	179141	18	109057	159497	124547	37	55	3.81	41.28	139.75	378.29	5	385197	13.5	4	0	6
1927	1,6,9,11,13,12,14,30,31,34,38,43,47,46,48,51	170716	16	97188	165280	114771	35	55	3.41	35.05	116.66	390.03	7	350660	13.5	4	0	6
1928	1,6,9,11,13,12,14,30,31,34,38,43,47,46,48,52,53,54	167842	16	85608	162405	122005	33	54	3.53	35.45	116.66	381.34	6	319661	13.5	4	0	6
1929	1,6,9,11,13,12,14,30,31,34,38,43,47,49,53,54	159666	17	57408	154230	133470	33	50	3.90	35.86	119.23	351.24	6	295915	13.5	4	0	6
1930	1,6,9,11,13,12,14,30,31,34,38,43,50,54	158787	15	56777	153351	132591	33	51	3.53	37.77	120.31	344.65	5	293141	13.5	4	0	6
1931	1,6,9,11,13,12,14,30,33,37,40,41,44,55	164384	14	81899	151988	116688	33	51	3.15	34.88	119.83	359.64	5	331866	13.5	4	0	1
1932	1,6,9,11,13,12,14,30,33,37,40,41,45,55	179367	18	109219	159562	110072	38	56	3.55	39.23	139.89	378.90	5	387868	13.5	4	0	1
1933	1,6,9,11,13,12,14,30,33,37,40,43,47,46,48,51	170943	18	97350	165345	100296	36	56	3.15	33.00	116.79	390.48	7	353331	13.5	4	0	1
1934	1,6,9,11,13,12,14,30,33,37,40,43,47,46,48,52,53,54	168068	18	85770	162470	107530	34	55	3.27	33.40	116.79	381.79	6	322332	13.5	4	0	1
1935	1,6,9,11,13,12,14,30,33,37,40,43,47,49,53,54	159893	19	57570	154295	118995	34	51	3.64	33.81	119.36	351.69	6	298587	13.5	4	0	1
1936	1,6,9,11,13,12,14,30,33,37,40,43,50,54	159014	17	56939	153416	118116	34	52	3.27	35.72	120.44	345.10	5	295813	13.5	4	0	1
1937	1,6,9,11,13,12,14,30,33,37,42,46,48,51	169776	15	96143	164753	99704	34	56	3.15	33.00	115.98	389.48	7	348615	13.5	4	0	1
1938	1,6,9,11,13,12,14,30,33,37,42,46,48,52,53,54	166902	15	84563	161879	106938	32	55	3.27	33.40	115.98	380.79	6	317616	13.5	4	0	1

Table F-1: Route Data for All Routes

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
1939	1,6,9,11,13,12,14,30,33,37,42,47,50,54	159111	16	56995	154088	118787	34	52	3.27	35.72	121.71	345.71	5	296149	13.5	4	0	1
1940	1,6,9,11,13,12,14,30,33,37,42,49,53,54	158727	15	56363	153704	118403	32	51	3.64	33.81	118.55	350.69	6	293870	13.5	4	0	1
1941	1,6,9,11,13,12,14,32,46,47,50,54	173372	19	104308	152017	117929	36	59	2.85	41.14	134.71	358.04	5	393091	21.5	4	0	5
1942	1,6,9,11,13,12,14,32,46,49,53,54	172988	18	103677	151633	117545	34	58	3.22	39.23	131.55	362.44	6	390812	21.5	4	0	5
1943	1,6,9,11,13,12,14,32,48,51	168581	16	127999	147226	91242	36	61	2.73	38.42	128.98	348.60	5	423294	21.5	4	0	5
1944	1,6,9,11,13,12,14,32,48,52,53,54	165706	16	116419	144352	98476	34	60	2.85	38.82	128.98	339.91	4	392295	21.5	4	0	5
1945	1,6,9,11,13,15,23,26,30,32,46,47,50,54	167933	28	77621	136314	106793	35	53	3.01	44.72	104.98	364.70	5	377008	18	4	1	5
1946	1,6,9,11,13,15,23,26,30,32,46,49,53,54	167549	27	76989	135930	106409	33	52	3.38	42.81	101.82	369.10	6	374730	18	4	1	5
1947	1,6,9,11,13,15,23,26,30,32,48,51	163142	25	101312	131523	80106	35	55	2.89	42.00	99.25	355.25	5	407212	18	4	1	5
1948	1,6,9,11,13,15,23,26,30,32,48,52,53,54	160267	25	89731	128649	87341	33	54	3.01	42.40	99.25	346.56	4	376213	18	4	1	5
1949	1,6,9,11,13,15,23,26,31,34,35,37,40,41,44,55	151865	23	48583	136448	110370	30	42	3.31	39.45	89.68	342.81	5	279034	7	4	1	1
1950	1,6,9,11,13,15,23,26,31,34,35,37,40,41,45,55	166849	27	75902	144022	103753	35	47	3.71	43.79	109.74	362.07	5	335037	7	4	1	1
1951	1,6,9,11,13,15,23,26,31,34,35,37,40,43,47,46,48,51	158424	27	64033	149804	93977	33	47	3.31	37.56	86.64	373.66	7	300500	7	4	1	1
1952	1,6,9,11,13,15,23,26,31,34,35,37,40,43,47,46,48,52,53,54	155550	27	52453	146930	101211	31	46	3.43	37.96	86.64	364.97	6	269501	7	4	1	1
1953	1,6,9,11,13,15,23,26,31,34,35,37,40,43,47,49,53,54	147375	28	24253	138755	112676	31	42	3.80	38.37	89.21	334.87	6	245755	7	4	1	1
1954	1,6,9,11,13,15,23,26,31,34,35,37,40,43,50,54	146496	26	23622	137875	111797	31	43	3.43	40.28	90.29	328.27	5	242981	7	4	1	1
1955	1,6,9,11,13,15,23,26,31,34,35,37,42,46,48,51	157258	24	62826	149213	93386	31	47	3.31	37.56	85.83	372.66	7	295783	7	4	1	1
1956	1,6,9,11,13,15,23,26,31,34,35,37,42,46,48,52,53,54	154384	24	51246	146339	100620	29	46	3.43	37.96	85.83	363.96	6	264784	7	4	1	1
1957	1,6,9,11,13,15,23,26,31,34,35,37,42,47,50,54	146592	25	23678	138547	112469	31	43	3.43	40.28	91.56	328.88	5	243318	7	4	1	1
1958	1,6,9,11,13,15,23,26,31,34,35,37,42,49,53,54	146208	24	23047	138163	112085	29	42	3.80	38.37	88.40	333.87	6	241039	7	4	1	1
1959	1,6,9,11,13,15,23,26,31,34,36,39,41,40,42,46,48,51	169004	27	99486	151113	85068	31	50	3.41	37.46	134.67	343.56	7	362446	7	4	1	1
1960	1,6,9,11,13,15,23,26,31,34,36,39,41,40,42,46,48,52,53,54	166130	27	87906	148238	92302	29	49	3.53	37.87	134.67	334.87	6	331447	7	4	1	1
1961	1,6,9,11,13,15,23,26,31,34,36,39,41,40,42,47,50,54	158339	28	60338	140447	104151	31	46	3.53	40.18	140.40	299.79	5	309980	7	4	1	1
1962	1,6,9,11,13,15,23,26,31,34,36,39,41,40,42,49,53,54	157955	27	59707	140063	103767	29	45	3.90	38.28	137.24	304.77	6	307702	7	4	1	1
1963	1,6,9,11,13,15,23,26,31,34,36,39,41,43,47,46,48,51	169021	28	99543	151704	85659	31	50	3.41	37.46	135.48	343.71	7	362702	7	4	1	1
1964	1,6,9,11,13,15,23,26,31,34,36,39,41,43,47,46,48,52,53,54	166146	28	87963	148830	92894	29	49	3.53	37.87	135.48	335.02	6	331703	7	4	1	1
1965	1,6,9,11,13,15,23,26,31,34,36,39,41,43,47,49,53,54	157971	29	59763	140654	104359	29	45	3.90	38.28	138.05	304.92	6	307958	7	4	1	1
1966	1,6,9,11,13,15,23,26,31,34,36,39,41,43,50,54	157092	27	59131	139775	103479	29	46	3.53	40.18	139.13	298.32	5	305184	7	4	1	1
1967	1,6,9,11,13,15,23,26,31,34,36,39,44,55	148868	22	70498	138348	102052	28	41	3.41	39.35	138.52	294.17	5	301158	7	4	1	1
1968	1,6,9,11,13,15,23,26,31,34,36,39,45,55	163852	26	97818	145922	95436	33	46	3.81	43.70	158.58	313.43	5	357161	7	4	1	1
1969	1,6,9,11,13,15,23,26,31,34,38,40,42,46,48,51	157606	24	62789	148985	103044	32	47	3.56	38.62	86.12	371.58	7	296286	7	4	1	6
1970	1,6,9,11,13,15,23,26,31,34,38,40,42,46,48,52,53,54	154731	24	51208	146111	110278	30	46	3.69	39.03	86.12	362.88	6	265287	7	4	1	6
1971	1,6,9,11,13,15,23,26,31,34,38,40,42,47,50,54	146940	25	23640	138320	122127	32	43	3.69	41.35	91.85	327.80	5	243821	7	4	1	6
1972	1,6,9,11,13,15,23,26,31,34,38,40,42,49,53,54	146556	24	23009	137936	121743	30	42	4.06	39.44	88.69	332.78	6	241542	7	4	1	6
1973	1,6,9,11,13,15,23,26,31,34,38,41,44,55	151063	21	47394	136221	120028	29	42	3.56	40.51	89.98	340.72	5	275077	7	4	1	6
1974	1,6,9,11,13,15,23,26,31,34,38,41,45,55	166047	25	74714	143794	113412	34	47	3.97	44.86	110.03	359.98	5	331079	7	4	1	6
1975	1,6,9,11,13,15,23,26,31,34,38,43,47,46,48,51	157622	23	62845	149577	103636	32	47	3.56	38.62	86.93	371.72	7	296542	7	4	1	6
1976	1,6,9,11,13,15,23,26,31,34,38,43,47,46,48,52,53,54	154747	23	51265	146702	110870	30	46	3.69	39.03	86.93	363.03	6	265543	7	4	1	6
1977	1,6,9,11,13,15,23,26,31,34,38,43,47,49,53,54	146572	24	23065	138527	122335	30	42	4.06	39.44	89.50	332.93	6	241798	7	4	1	6
1978	1,6,9,11,13,15,23,26,31,34,38,43,50,54	145693	22	22434	137648	121456	30	43	3.69	41.35	90.58	326.34	5	239024	7	4	1	6
1979	1,6,9,11,13,15,23,26,33,37,40,41,44,55	151289	19	47556	136285	105553	30	43	3.31	38.45	90.11	341.38	5	277748	7	4	1	1
1980	1,6,9,11,13,15,23,26,33,37,40,41,45,55	166273	23	74876	143859	98937	35	48	3.71	42.80	110.16	360.64	5	333751	7	4	1	1
1981	1,6,9,11,13,15,23,26,33,37,40,43,47,46,48,51	157848	23	63007	149642	89160	33	48	3.31	36.57	87.07	372.23	7	299213	7	4	1	1
1982	1,6,9,11,13,15,23,26,33,37,40,43,47,46,48,52,53,54	154974	23	51427	146767	96395	31	47	3.43	36.97	87.07	363.54	6	268214	7	4	1	1
1983	1,6,9,11,13,15,23,26,33,37,40,43,47,49,53,54	146799	24	23227	138592	107860	31	43	3.80	37.38	89.64	333.44	6	244469	7	4	1	1
1984	1,6,9,11,13,15,23,26,33,37,40,43,50,54	145920	22	22596	137713	106980	31	44	3.43	39.29	90.72	326.84	5	241695	7	4	1	1
1985	1,6,9,11,13,15,23,26,33,37,42,46,48,51	156682	20	61800	149050	88569	31	48	3.31	36.57	86.25	371.23	7	294497	7	4	1	1
1986	1,6,9,11,13,15,23,26,33,37,42,46,48,52,53,54	153808	20	50220	146176	95803	29	47	3.43	36.97	86.25	362.54	6	263498	7	4	1	1
1987	1,6,9,11,13,15,23,26,33,37,42,47,50,54	146016	21	22652	138385	107652	31	44	3.43	39.29	91.99	327.45	5	242031	7	4	1	1
1988	1,6,9,11,13,15,23,26,33,37,42,49,53,54	145632	20	22020	138001	107268	29	43	3.80	37.38	88.82	332.44	6	239753	7	4	1	1
1989	1,6,9,11,13,15,23,27,28,31,30,32,46,47,50,54	168244	28	76301	136515	109560	35	53	3.01	43.56	114.13	357.72	5	374846	18	4	0	5

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
1990	1,6,9,11,13,15,23,27,28,31,30,32,46,49,53,54	167860	27	75670	136131	109176	33	52	3.38	41.65	110.97	362.12	6	372567	18	4	0	5
1991	1,6,9,11,13,15,23,27,28,31,30,32,48,51	163453	25	99992	131723	82873	35	55	2.89	40.84	108.39	348.27	5	405050	18	4	0	5
1992	1,6,9,11,13,15,23,27,28,31,30,32,48,52,53,54	160578	25	88412	128849	90107	33	54	3.01	41.24	108.39	339.58	4	374051	18	4	0	5
1993	1,6,9,11,13,15,23,27,28,31,33,37,40,41,44,55	151600	21	46237	136486	108319	30	43	3.31	37.29	99.25	334.34	5	275586	7	4	0	1
1994	1,6,9,11,13,15,23,27,28,31,33,37,40,41,45,55	166584	25	73556	144059	101703	35	48	3.71	41.64	119.31	353.60	5	331588	7	4	0	1
1995	1,6,9,11,13,15,23,27,28,31,33,37,40,43,47,46,48,51	158159	25	61687	149842	91927	33	48	3.31	35.41	96.21	365.19	7	297051	7	4	0	1
1996	1,6,9,11,13,15,23,27,28,31,33,37,40,43,47,46,48,52,53,54	155285	25	50107	146967	99161	31	47	3.43	35.81	96.21	356.50	6	266052	7	4	0	1
1997	1,6,9,11,13,15,23,27,28,31,33,37,40,43,47,49,53,54	147110	26	21908	138792	110626	31	43	3.80	36.22	98.78	326.40	6	242307	7	4	0	1
1998	1,6,9,11,13,15,23,27,28,31,33,37,40,43,50,54	146231	24	21276	137913	109747	31	44	3.43	38.13	99.86	319.80	5	239533	7	4	0	1
1999	1,6,9,11,13,15,23,27,28,31,33,37,42,46,48,51	156993	22	60481	149250	91335	31	48	3.31	35.41	95.40	364.19	7	292334	7	4	0	1
2000	1,6,9,11,13,15,23,27,28,31,33,37,42,46,48,52,53,54	154119	22	48900	146376	98569	29	47	3.43	35.81	95.40	355.50	6	261335	7	4	0	1
2001	1,6,9,11,13,15,23,27,28,31,33,37,42,47,50,54	146327	23	21332	138585	110418	31	44	3.43	38.13	101.13	320.42	5	239869	7	4	0	1
2002	1,6,9,11,13,15,23,27,28,31,33,37,42,49,53,54	145943	22	20701	138201	110034	29	43	3.80	36.22	97.97	325.40	6	237590	7	4	0	1
2003	1,6,9,11,13,15,23,27,28,34,35,37,40,41,44,55	151350	21	46436	136648	113136	30	42	3.31	38.28	98.21	333.66	5	272739	7	4	0	1
2004	1,6,9,11,13,15,23,27,28,34,35,37,40,41,45,55	166334	25	73756	144222	106520	35	47	3.71	42.63	118.26	352.91	5	328741	7	4	0	1
2005	1,6,9,11,13,15,23,27,28,34,35,37,40,43,47,46,48,51	157909	25	61887	150004	96743	33	47	3.31	36.40	95.17	364.50	7	294204	7	4	0	1
2006	1,6,9,11,13,15,23,27,28,34,35,37,40,43,47,46,48,52,53,54	155034	25	50307	147130	103977	31	46	3.43	36.80	95.17	355.81	6	263205	7	4	0	1
2007	1,6,9,11,13,15,23,27,28,34,35,37,40,43,47,49,53,54	146859	26	22107	138955	115443	31	42	3.80	37.21	97.74	325.71	6	239460	7	4	0	1
2008	1,6,9,11,13,15,23,27,28,34,35,37,40,43,50,54	145980	24	21476	138076	114563	31	43	3.43	39.12	98.82	319.11	5	236686	7	4	0	1
2009	1,6,9,11,13,15,23,27,28,34,35,37,42,46,48,51	156742	22	60680	149413	96152	31	47	3.31	36.40	94.35	363.50	7	289488	7	4	0	1
2010	1,6,9,11,13,15,23,27,28,34,35,37,42,46,48,52,53,54	153868	22	49100	146539	103386	29	46	3.43	36.80	94.35	354.81	6	258489	7	4	0	1
2011	1,6,9,11,13,15,23,27,28,34,35,37,42,47,50,54	146077	23	21532	138747	115235	31	43	3.43	39.12	100.09	319.73	5	237022	7	4	0	1
2012	1,6,9,11,13,15,23,27,28,34,35,37,42,49,53,54	145693	22	20901	138363	114851	29	42	3.80	37.21	96.92	324.71	6	234743	7	4	0	1
2013	1,6,9,11,13,15,23,27,28,34,36,39,41,40,42,46,48,51	168489	25	97340	151313	87834	31	50	3.41	36.30	143.19	334.41	7	356151	7	4	0	1
2014	1,6,9,11,13,15,23,27,28,34,36,39,41,40,42,46,48,52,53,54	165614	25	85760	148439	95068	29	49	3.53	36.70	143.19	325.72	6	325151	7	4	0	1
2015	1,6,9,11,13,15,23,27,28,34,36,39,41,40,42,47,50,54	157823	26	58192	140647	106917	31	46	3.53	39.02	148.93	290.64	5	303685	7	4	0	1
2016	1,6,9,11,13,15,23,27,28,34,36,39,41,40,42,49,53,54	157439	25	57560	140263	106533	29	45	3.90	37.11	145.76	295.62	6	301406	7	4	0	1
2017	1,6,9,11,13,15,23,27,28,34,36,39,41,43,47,46,48,51	168505	26	97397	151904	88426	31	50	3.41	36.30	144.01	334.55	7	356406	7	4	0	1
2018	1,6,9,11,13,15,23,27,28,34,36,39,41,43,47,46,48,52,53,54	165631	26	85816	149030	95660	29	49	3.53	36.70	144.01	325.86	6	325407	7	4	0	1
2019	1,6,9,11,13,15,23,27,28,34,36,39,41,43,47,49,53,54	157455	27	57617	140855	107125	29	45	3.90	37.11	146.58	295.76	6	301662	7	4	0	1
2020	1,6,9,11,13,15,23,27,28,34,36,39,41,43,50,54	156576	25	56985	139975	106246	29	46	3.53	39.02	147.66	289.16	5	298888	7	4	0	1
2021	1,6,9,11,13,15,23,27,28,34,36,39,44,55	148352	20	68352	138548	104818	28	41	3.41	38.19	147.05	285.02	5	294863	7	4	0	1
2022	1,6,9,11,13,15,23,27,28,34,36,39,45,55	163336	24	95672	146122	98202	33	46	3.81	42.53	167.10	304.27	5	350865	7	4	0	1
2023	1,6,9,11,13,15,23,27,28,34,38,40,42,46,48,51	157090	22	60642	149186	105810	32	47	3.56	37.46	94.64	362.42	7	289991	7	4	0	6
2024	1,6,9,11,13,15,23,27,28,34,38,40,42,46,48,52,53,54	154216	22	49062	146311	113045	30	46	3.69	37.86	94.64	353.73	6	258992	7	4	0	6
2025	1,6,9,11,13,15,23,27,28,34,38,40,42,47,50,54	146424	23	21494	138520	124894	32	43	3.69	40.18	100.38	318.65	5	237525	7	4	0	6
2026	1,6,9,11,13,15,23,27,28,34,38,40,42,49,53,54	146040	22	20863	138136	124510	30	42	4.06	38.27	97.22	323.63	6	235246	7	4	0	6
2027	1,6,9,11,13,15,23,27,28,34,38,41,44,55	150547	19	45248	136421	122795	29	42	3.56	39.35	98.50	331.56	5	268781	7	4	0	6
2028	1,6,9,11,13,15,23,27,28,34,38,41,45,55	165531	23	72568	143995	116178	34	47	3.97	43.69	118.55	350.82	5	324784	7	4	0	6
2029	1,6,9,11,13,15,23,27,28,34,38,43,47,46,48,51	157106	21	60699	149777	106402	32	47	3.56	37.46	95.46	362.56	7	290246	7	4	0	6
2030	1,6,9,11,13,15,23,27,28,34,38,43,47,46,48,52,53,54	154232	21	49119	146903	113636	30	46	3.69	37.86	95.46	353.87	6	259247	7	4	0	6
2031	1,6,9,11,13,15,23,27,28,34,38,43,47,49,53,54	146057	22	20919	138727	125101	30	42	4.06	38.27	98.03	323.77	6	235502	7	4	0	6
2032	1,6,9,11,13,15,23,27,28,34,38,43,50,54	145177	20	20288	137848	124222	30	43	3.69	40.18	99.11	317.18	5	232728	7	4	0	6
2033	1,6,9,11,13,16,18,19,22,24,29,36,35,37,40,41,44,55	165819	25	84378	138425	102082	32	47	2.52	38.32	95.18	359.67	5	381670	49.5	4	0	1
2034	1,6,9,11,13,16,18,19,22,24,29,36,35,37,40,41,45,55	180803	29	111697	145999	95466	37	52	2.92	42.67	115.24	378.93	5	437672	49.5	4	0	1
2035	1,6,9,11,13,16,18,19,22,24,29,36,35,37,40,43,47,46,48,51	172379	29	99828	151781	85690	35	52	2.52	36.44	92.14	390.51	7	403135	49.5	4	0	1
2036	1,6,9,11,13,16,18,19,22,24,29,36,35,37,40,43,47,46,48,52,53,54	169504	29	88248	148907	92924	33	51	2.64	36.84	92.14	381.82	6	372136	49.5	4	0	1
2037	1,6,9,11,13,16,18,19,22,24,29,36,35,37,40,43,47,49,53,54	161329	30	60049	140732	104389	33	47	3.01	37.25	94.71	351.72	6	348391	49.5	4	0	1
2038	1,6,9,11,13,16,18,19,22,24,29,36,35,37,40,43,50,54	160450	28	59417	139852	103510	33	48	2.64	39.16	95.79	345.13	5	345617	49.5	4	0	1
2039	1,6,9,11,13,16,18,19,22,24,29,36,35,37,42,46,48,51	171212	26	98622	151190	85098	33	52	2.52	36.44	91.33	389.51	7	398419	49.5	4	0	1
2040	1,6,9,11,13,16,18,19,22,24,29,36,35,37,42,46,48,52,53,54	168338	26	87041	148316	92332	31	51	2.64	36.84	91.33	380.82	6	367420	49.5	4	0	1

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
2041	1,6,9,11,13,16,18,19,22,24,29,36,35,37,42,47,50,54	160546	27	59473	140524	104182	33	48	2.64	39.16	97.06	345.74	5	345953	49.5	4	0	1
2042	1,6,9,11,13,16,18,19,22,24,29,36,35,37,42,49,53,54	160162	26	58842	140140	103798	31	47	3.01	37.25	93.90	350.72	6	343674	49.5	4	0	1
2043	1,6,9,11,13,16,18,19,22,24,29,36,38,40,42,46,48,51	171560	27	98584	150962	94757	34	52	2.78	37.50	91.62	388.40	7	398922	49.5	4	0	6
2044	1,6,9,11,13,16,18,19,22,24,29,36,38,40,42,46,48,52,53,54	168685	27	87004	148088	101991	32	51	2.90	37.90	91.62	379.71	6	367923	49.5	4	0	6
2045	1,6,9,11,13,16,18,19,22,24,29,36,38,40,42,47,50,54	160894	28	59436	140297	113840	34	48	2.90	40.22	97.35	344.63	5	346456	49.5	4	0	6
2046	1,6,9,11,13,16,18,19,22,24,29,36,38,40,42,49,53,54	160510	27	58804	139913	113456	32	47	3.27	38.31	94.19	349.61	6	344177	49.5	4	0	6
2047	1,6,9,11,13,16,18,19,22,24,29,36,38,41,44,55	165017	24	83190	138198	111741	31	47	2.78	39.38	95.47	357.55	5	377712	49.5	4	0	6
2048	1,6,9,11,13,16,18,19,22,24,29,36,38,41,45,55	180001	28	110509	145771	105124	36	52	3.18	43.73	115.53	376.81	5	433715	49.5	4	0	6
2049	1,6,9,11,13,16,18,19,22,24,29,36,38,43,47,46,48,51	171576	26	98640	151554	95348	34	52	2.78	37.50	92.43	388.55	7	399177	49.5	4	0	6
2050	1,6,9,11,13,16,18,19,22,24,29,36,38,43,47,46,48,52,53,54	168702	26	87060	148679	102582	32	51	2.90	37.90	92.43	379.86	6	368178	49.5	4	0	6
2051	1,6,9,11,13,16,18,19,22,24,29,36,38,43,47,49,53,54	160526	27	58861	140504	114047	32	47	3.27	38.31	95.00	349.76	6	344433	49.5	4	0	6
2052	1,6,9,11,13,16,18,19,22,24,29,36,38,43,50,54	159647	25	58229	139625	113168	32	48	2.90	40.22	96.08	343.16	5	341659	49.5	4	0	6
2053	1,6,9,11,13,16,18,19,22,24,29,39,41,40,42,46,48,51	173330	26	125653	148411	76781	31	55	2.62	36.34	124.32	353.82	7	429526	49.5	4	0	1
2054	1,6,9,11,13,16,18,19,22,24,29,39,41,40,42,46,48,52,53,54	170456	26	114073	145536	84015	29	54	2.74	36.74	124.32	345.13	6	398527	49.5	4	0	1
2055	1,6,9,11,13,16,18,19,22,24,29,39,41,40,42,47,50,54	162665	27	86505	137745	95864	31	51	2.74	39.06	130.05	310.05	5	377060	49.5	4	0	1
2056	1,6,9,11,13,16,18,19,22,24,29,39,41,40,42,49,53,54	162281	26	85874	137361	95480	29	50	3.11	37.15	126.89	315.03	6	374782	49.5	4	0	1
2057	1,6,9,11,13,16,18,19,22,24,29,39,41,43,47,46,48,51	173347	27	125710	149002	77372	31	55	2.62	36.34	125.13	353.96	7	429782	49.5	4	0	1
2058	1,6,9,11,13,16,18,19,22,24,29,39,41,43,47,46,48,52,53,54	170472	27	114130	146128	84606	29	54	2.74	36.74	125.13	345.27	6	398783	49.5	4	0	1
2059	1,6,9,11,13,16,18,19,22,24,29,39,41,43,47,49,53,54	162297	28	85930	137953	96071	29	50	3.11	37.15	127.70	315.17	6	375038	49.5	4	0	1
2060	1,6,9,11,13,16,18,19,22,24,29,39,41,43,50,54	161418	26	85299	137073	95192	29	51	2.74	39.06	128.78	308.58	5	372263	49.5	4	0	1
2061	1,6,9,11,13,16,18,19,22,24,29,39,44,55	153194	21	96665	135646	93765	28	46	2.62	38.22	128.17	304.43	5	368238	49.5	4	0	1
2062	1,6,9,11,13,16,18,19,22,24,29,39,45,55	168177	25	123985	143220	87148	33	51	3.02	42.57	148.23	323.69	5	424241	49.5	4	0	1
2063	1,6,9,11,13,16,18,19,22,25,29,36,35,37,40,41,44,55	163927	24	82485	135205	106562	32	48	2.53	36.88	96.91	349.71	5	377942	50	4	0	1
2064	1,6,9,11,13,16,18,19,22,25,29,36,35,37,40,41,45,55	178911	28	109805	142778	99946	37	53	2.94	41.23	116.96	368.96	5	433944	50	4	0	1
2065	1,6,9,11,13,16,18,19,22,25,29,36,35,37,40,43,47,46,48,51	170486	28	97936	148561	90169	35	53	2.53	35.00	93.86	380.55	7	399407	50	4	0	1
2066	1,6,9,11,13,16,18,19,22,25,29,36,35,37,40,43,47,46,48,52,53,54	167612	28	86356	145686	97404	33	52	2.66	35.40	93.86	371.86	6	368408	50	4	0	1
2067	1,6,9,11,13,16,18,19,22,25,29,36,35,37,40,43,47,49,53,54	159437	29	58156	137511	108869	33	48	3.03	35.81	96.44	341.76	6	344663	50	4	0	1
2068	1,6,9,11,13,16,18,19,22,25,29,36,35,37,40,43,50,54	158557	27	57525	136632	107989	33	49	2.66	37.72	97.52	335.16	5	341889	50	4	0	1
2069	1,6,9,11,13,16,18,19,22,25,29,36,35,37,42,46,48,51	169320	25	96729	147969	89578	33	53	2.53	35.00	93.05	379.55	7	394691	50	4	0	1
2070	1,6,9,11,13,16,18,19,22,25,29,36,35,37,42,46,48,52,53,54	166445	25	85149	145095	96812	31	52	2.66	35.40	93.05	370.86	6	363692	50	4	0	1
2071	1,6,9,11,13,16,18,19,22,25,29,36,35,37,42,47,50,54	158654	26	57581	137304	108661	33	49	2.66	37.72	98.78	335.78	5	342225	50	4	0	1
2072	1,6,9,11,13,16,18,19,22,25,29,36,35,37,42,49,53,54	158270	25	56950	136920	108277	31	48	3.03	35.81	95.62	340.76	6	339946	50	4	0	1
2073	1,6,9,11,13,16,18,19,22,25,29,36,38,40,42,46,48,51	169667	26	96691	147742	99237	34	53	2.79	36.06	93.34	378.44	7	395194	50	4	0	6
2074	1,6,9,11,13,16,18,19,22,25,29,36,38,40,42,46,48,52,53,54	166793	26	85111	144868	106471	32	52	2.92	36.46	93.34	369.75	6	364195	50	4	0	6
2075	1,6,9,11,13,16,18,19,22,25,29,36,38,40,42,47,50,54	159002	27	57543	137076	118320	34	49	2.92	38.78	99.07	334.67	5	342728	50	4	0	6
2076	1,6,9,11,13,16,18,19,22,25,29,36,38,40,42,49,53,54	158618	26	56912	136692	117936	32	48	3.28	36.87	95.91	339.65	6	340449	50	4	0	6
2077	1,6,9,11,13,16,18,19,22,25,29,36,38,41,44,55	163124	23	81297	134977	116221	31	48	2.79	37.94	97.20	347.59	5	373985	50	4	0	6
2078	1,6,9,11,13,16,18,19,22,25,29,36,38,41,45,55	178108	27	108617	142551	109604	36	53	3.20	42.29	117.25	366.84	5	429987	50	4	0	6
2079	1,6,9,11,13,16,18,19,22,25,29,36,38,43,47,46,48,51	169684	25	96748	148333	99828	34	53	2.79	36.06	94.15	378.59	7	395450	50	4	0	6
2080	1,6,9,11,13,16,18,19,22,25,29,36,38,43,47,46,48,52,53,54	166809	25	85168	145459	107062	32	52	2.92	36.46	94.15	369.89	6	364451	50	4	0	6
2081	1,6,9,11,13,16,18,19,22,25,29,36,38,43,47,49,53,54	158634	26	56968	137284	118527	32	48	3.28	36.87	96.73	339.80	6	340705	50	4	0	6
2082	1,6,9,11,13,16,18,19,22,25,29,36,38,43,50,54	157755	24	56337	136404	117648	32	49	2.92	38.78	97.81	333.20	5	337931	50	4	0	6
2083	1,6,9,11,13,16,18,19,22,25,29,39,41,40,42,46,48,51	171438	25	123761	145190	81260	31	56	2.64	34.90	126.04	343.86	7	425798	50	4	0	1
2084	1,6,9,11,13,16,18,19,22,25,29,39,41,40,42,46,48,52,53,54	168564	25	112181	142316	88495	29	55	2.76	35.30	126.04	335.16	6	394799	50	4	0	1
2085	1,6,9,11,13,16,18,19,22,25,29,39,41,40,42,47,50,54	160772	26	84613	134525	100344	31	52	2.76	37.62	131.77	300.08	5	373333	50	4	0	1
2086	1,6,9,11,13,16,18,19,22,25,29,39,41,40,42,49,53,54	160388	25	83981	134141	99960	29	51	3.13	35.71	128.61	305.07	6	371054	50	4	0	1
2087	1,6,9,11,13,16,18,19,22,25,29,39,41,43,47,46,48,51	171454	26	123817	145782	81852	31	56	2.64	34.90	126.85	344.00	7	426054	50	4	0	1
2088	1,6,9,11,13,16,18,19,22,25,29,39,41,43,47,46,48,52,53,54	168580	26	112237	142907	89086	29	55	2.76	35.30	126.85	335.31	6	395055	50	4	0	1
2089	1,6,9,11,13,16,18,19,22,25,29,39,41,43,47,49,53,54	160405	27	84038	134732	100551	29	51	3.13	35.71	129.43	305.21	6	371310	50	4	0	1
2090	1,6,9,11,13,16,18,19,22,25,29,39,41,43,50,54	159525	25	83406	133853	99672	29	52	2.76	37.62	130.51	298.61	5	368536	50	4	0	1
2091	1,6,9,11,13,16,18,19,22,25,29,39,44,55	151301	20	94773	132426	98245	28	47	2.64	36.78	129.90	294.47	5	364511	50	4	0	1

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
2092	1,6,9,11,13,16,18,19,22,25,29,39,45,55	166285	24	122093	139999	91628	33	52	3.04	41.13	149.95	313.72	5	420513	50	4	0	1
2093	1,6,9,11,13,16,18,21,27,26,30,32,46,47,50,54	168670	31	76561	140094	110960	37	55	2.48	43.71	94.00	382.23	5	380410	30.5	4	1	5
2094	1,6,9,11,13,16,18,21,27,26,30,32,46,49,53,54	168286	30	75929	139710	110576	35	54	2.84	41.80	90.84	386.63	6	378131	30.5	4	1	5
2095	1,6,9,11,13,16,18,21,27,26,30,32,48,51	163879	28	100252	135302	84273	37	57	2.35	40.99	88.27	372.78	5	410614	30.5	4	1	5
2096	1,6,9,11,13,16,18,21,27,26,30,32,48,52,53,54	161004	28	88671	132428	91508	35	56	2.48	41.39	88.27	364.09	4	379615	30.5	4	1	5
2097	1,6,9,11,13,16,18,21,27,26,31,34,35,37,40,41,44,55	152602	26	47522	140227	114537	32	44	2.77	38.44	78.70	360.34	5	282436	19.5	4	1	1
2098	1,6,9,11,13,16,18,21,27,26,31,34,35,37,40,41,45,55	167586	30	74842	147801	107920	37	49	3.18	42.79	98.75	379.60	5	338438	19.5	4	1	1
2099	1,6,9,11,13,16,18,21,27,26,31,34,35,37,40,43,47,46,48,51	159162	30	62973	153583	98144	35	49	2.77	36.56	75.66	391.19	7	303901	19.5	4	1	1
2100	1,6,9,11,13,16,18,21,27,26,31,34,35,37,40,43,47,46,48,52,53,54	156287	30	51393	150709	105378	33	48	2.89	36.96	75.66	382.50	6	272902	19.5	4	1	1
2101	1,6,9,11,13,16,18,21,27,26,31,34,35,37,40,43,47,49,53,54	148112	31	23193	142534	116843	33	44	3.26	37.37	78.23	352.40	6	249157	19.5	4	1	1
2102	1,6,9,11,13,16,18,21,27,26,31,34,35,37,40,43,50,54	147233	29	22562	141655	115964	33	45	2.89	39.28	79.31	345.80	5	246382	19.5	4	1	1
2103	1,6,9,11,13,16,18,21,27,26,31,34,35,37,42,46,48,51	157995	27	61766	152992	97553	33	49	2.77	36.56	74.84	390.19	7	299184	19.5	4	1	1
2104	1,6,9,11,13,16,18,21,27,26,31,34,35,37,42,46,48,52,53,54	155121	27	50186	150118	104787	31	48	2.89	36.96	74.84	381.50	6	268185	19.5	4	1	1
2105	1,6,9,11,13,16,18,21,27,26,31,34,35,37,42,47,50,54	147329	28	22618	142326	116636	33	45	2.89	39.28	80.58	346.42	5	246719	19.5	4	1	1
2106	1,6,9,11,13,16,18,21,27,26,31,34,35,37,42,49,53,54	146945	27	21986	141942	116252	31	44	3.26	37.37	77.42	351.40	6	244440	19.5	4	1	1
2107	1,6,9,11,13,16,18,21,27,26,31,34,36,39,41,40,42,46,48,51	169742	30	98426	154892	89235	33	52	2.87	36.46	123.68	361.10	7	365847	19.5	4	1	1
2108	1,6,9,11,13,16,18,21,27,26,31,34,36,39,41,40,42,46,48,52,53,54	166867	30	86846	152018	96469	31	51	3.00	36.86	123.68	352.40	6	334848	19.5	4	1	1
2109	1,6,9,11,13,16,18,21,27,26,31,34,36,39,41,40,42,47,50,54	159076	31	59278	144226	108318	33	48	3.00	39.18	129.42	317.32	5	313382	19.5	4	1	1
2110	1,6,9,11,13,16,18,21,27,26,31,34,36,39,41,40,42,49,53,54	158692	30	58646	143842	107934	31	47	3.36	37.27	126.26	322.31	6	311103	19.5	4	1	1
2111	1,6,9,11,13,16,18,21,27,26,31,34,36,39,41,43,47,46,48,51	169758	31	98483	155483	89826	33	52	2.87	36.46	124.50	361.24	7	366103	19.5	4	1	1
2112	1,6,9,11,13,16,18,21,27,26,31,34,36,39,41,43,47,46,48,52,53,54	166883	31	86902	152609	97061	31	51	3.00	36.86	124.50	352.55	6	335104	19.5	4	1	1
2113	1,6,9,11,13,16,18,21,27,26,31,34,36,39,41,43,47,49,53,54	158708	32	58703	144434	108526	31	47	3.36	37.27	127.07	322.45	6	311359	19.5	4	1	1
2114	1,6,9,11,13,16,18,21,27,26,31,34,36,39,41,43,50,54	157829	30	58071	143554	107646	31	48	3.00	39.18	128.15	315.85	5	308585	19.5	4	1	1
2115	1,6,9,11,13,16,18,21,27,26,31,34,36,39,44,55	149605	25	69438	142127	106219	30	43	2.87	38.34	127.54	311.71	5	304560	19.5	4	1	1
2116	1,6,9,11,13,16,18,21,27,26,31,34,36,39,45,55	164589	29	96758	149701	99603	35	48	3.28	42.69	147.59	330.96	5	360562	19.5	4	1	1
2117	1,6,9,11,13,16,18,21,27,26,31,34,38,40,42,46,48,51	158343	27	61728	152765	107211	34	49	3.03	37.62	75.13	389.11	7	299687	19.5	4	1	6
2118	1,6,9,11,13,16,18,21,27,26,31,34,38,40,42,46,48,52,53,54	155468	27	50148	149890	114445	32	48	3.15	38.02	75.13	380.42	6	268688	19.5	4	1	6
2119	1,6,9,11,13,16,18,21,27,26,31,34,38,40,42,47,50,54	147677	28	22580	142099	126294	34	45	3.15	40.34	80.87	345.33	5	247222	19.5	4	1	6
2120	1,6,9,11,13,16,18,21,27,26,31,34,38,40,42,49,53,54	147293	27	21949	141715	125910	32	44	3.52	38.43	77.71	350.32	6	244943	19.5	4	1	6
2121	1,6,9,11,13,16,18,21,27,26,31,34,38,41,44,55	151800	24	46334	140000	124195	31	44	3.03	39.50	78.99	358.25	5	278478	19.5	4	1	6
2122	1,6,9,11,13,16,18,21,27,26,31,34,38,41,45,55	166784	28	73654	147574	117579	36	49	3.43	43.85	99.05	377.51	5	334480	19.5	4	1	6
2123	1,6,9,11,13,16,18,21,27,26,31,34,38,43,47,46,48,51	158359	26	61785	153356	107803	34	49	3.03	37.62	75.95	389.25	7	299943	19.5	4	1	6
2124	1,6,9,11,13,16,18,21,27,26,31,34,38,43,47,46,48,52,53,54	155485	26	50205	150482	115037	32	48	3.15	38.02	75.95	380.56	6	268944	19.5	4	1	6
2125	1,6,9,11,13,16,18,21,27,26,31,34,38,43,47,49,53,54	147309	27	22005	142306	126502	32	44	3.52	38.43	78.52	350.46	6	245199	19.5	4	1	6
2126	1,6,9,11,13,16,18,21,27,26,31,34,38,43,50,54	146430	25	21374	141427	125622	32	45	3.15	40.34	79.60	343.87	5	242425	19.5	4	1	6
2127	1,6,9,11,13,16,18,21,27,26,33,37,40,41,44,55	152026	22	46496	140065	109720	32	45	2.77	37.45	79.13	358.91	5	281150	19.5	4	1	1
2128	1,6,9,11,13,16,18,21,27,26,33,37,40,41,45,55	167010	26	73816	147638	103104	37	50	3.18	41.80	99.18	378.17	5	337152	19.5	4	1	1
2129	1,6,9,11,13,16,18,21,27,26,33,37,40,43,47,46,48,51	158586	26	61947	153421	93327	35	50	2.77	35.57	76.08	389.76	7	302615	19.5	4	1	1
2130	1,6,9,11,13,16,18,21,27,26,33,37,40,43,47,46,48,52,53,54	155711	26	50367	150546	100562	33	49	2.89	35.97	76.08	381.07	6	271616	19.5	4	1	1
2131	1,6,9,11,13,16,18,21,27,26,33,37,40,43,47,49,53,54	147536	27	22167	142371	112027	33	45	3.26	36.38	78.65	350.97	6	247870	19.5	4	1	1
2132	1,6,9,11,13,16,18,21,27,26,33,37,40,43,50,54	146657	25	21535	141492	111147	33	46	2.89	38.29	79.74	344.37	5	245096	19.5	4	1	1
2133	1,6,9,11,13,16,18,21,27,26,33,37,42,46,48,51	157419	23	60740	152829	92736	33	50	2.77	35.57	75.27	388.76	7	297898	19.5	4	1	1
2134	1,6,9,11,13,16,18,21,27,26,33,37,42,46,48,52,53,54	154545	23	49160	149955	99970	31	49	2.89	35.97	75.27	380.07	6	266899	19.5	4	1	1
2135	1,6,9,11,13,16,18,21,27,26,33,37,42,47,50,54	146753	24	21592	142164	111819	33	46	2.89	38.29	81.00	344.99	5	245433	19.5	4	1	1
2136	1,6,9,11,13,16,18,21,27,26,33,37,42,49,53,54	146369	23	20960	141780	111435	31	45	3.26	36.38	77.84	349.97	6	243154	19.5	4	1	1
2137	1,6,9,11,13,16,18,21,28,31,30,32,46,47,50,54	168028	29	74288	140294	113727	37	55	2.48	42.55	100.05	375.25	5	374433	30.5	4	0	5
2138	1,6,9,11,13,16,18,21,28,31,30,32,46,49,53,54	167644	28	73656	139910	113343	35	54	2.84	40.64	96.89	379.65	6	372154	30.5	4	0	5
2139	1,6,9,11,13,16,18,21,28,31,30,32,48,51	163236	26	97979	135502	87040	37	57	2.35	39.83	94.32	365.80	5	404637	30.5	4	0	5
2140	1,6,9,11,13,16,18,21,28,31,30,32,48,52,53,54	160362	26	86398	132628	94274	35	56	2.48	40.23	94.32	357.11	4	373638	30.5	4	0	5
2141	1,6,9,11,13,16,18,21,28,31,33,37,40,41,44,55	151384	22	44223	140265	112486	32	45	2.77	36.29	85.18	351.88	5	275173	19.5	4	0	1
2142	1,6,9,11,13,16,18,21,28,31,33,37,40,41,45,55	166368	26	71543	147839	105870	37	50	3.18	40.64	105.23	371.13	5	331175	19.5	4	0	1

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
2143	1,6,9,11,13,16,18,21,28,31,33,37,40,43,47,46,48,51	157943	26	59674	153621	96094	35	50	2.77	34.41	82.13	382.72	7	296638	19.5	4	0	1
2144	1,6,9,11,13,16,18,21,28,31,33,37,40,43,47,46,48,52,53,54	155069	26	48094	150747	103328	33	49	2.89	34.81	82.13	374.03	6	265639	19.5	4	0	1
2145	1,6,9,11,13,16,18,21,28,31,33,37,40,43,47,49,53,54	146893	27	19894	142571	114793	33	45	3.26	35.22	84.70	343.93	6	241894	19.5	4	0	1
2146	1,6,9,11,13,16,18,21,28,31,33,37,40,43,50,54	146014	25	19262	141692	113914	33	46	2.89	37.13	85.78	337.33	5	239120	19.5	4	0	1
2147	1,6,9,11,13,16,18,21,28,31,33,37,42,46,48,51	156777	23	58467	153030	95502	33	50	2.77	34.41	81.32	381.72	7	291922	19.5	4	0	1
2148	1,6,9,11,13,16,18,21,28,31,33,37,42,46,48,52,53,54	153902	23	46887	150155	102736	31	49	2.89	34.81	81.32	373.03	6	260923	19.5	4	0	1
2149	1,6,9,11,13,16,18,21,28,31,33,37,42,47,50,54	146111	24	19319	142364	114585	33	46	2.89	37.13	87.05	337.95	5	239456	19.5	4	0	1
2150	1,6,9,11,13,16,18,21,28,31,33,37,42,49,53,54	145727	23	18687	141980	114201	31	45	3.26	35.22	83.89	342.93	6	237177	19.5	4	0	1
2151	1,6,9,11,13,16,18,21,28,34,35,37,40,41,44,55	151133	22	44423	140428	117303	32	44	2.77	37.28	84.13	351.19	5	272326	19.5	4	0	1
2152	1,6,9,11,13,16,18,21,28,34,35,37,40,41,45,55	166117	26	71742	148001	110687	37	49	3.18	41.63	104.18	370.44	5	328329	19.5	4	0	1
2153	1,6,9,11,13,16,18,21,28,34,35,37,40,43,47,46,48,51	157692	26	59873	153784	100910	35	49	2.77	35.40	81.09	382.03	7	293791	19.5	4	0	1
2154	1,6,9,11,13,16,18,21,28,34,35,37,40,43,47,46,48,52,53,54	154818	26	48293	150909	108144	33	48	2.89	35.80	81.09	373.34	6	262792	19.5	4	0	1
2155	1,6,9,11,13,16,18,21,28,34,35,37,40,43,47,49,53,54	146643	27	20094	142734	119609	33	44	3.26	36.21	83.66	343.24	6	239047	19.5	4	0	1
2156	1,6,9,11,13,16,18,21,28,34,35,37,40,43,50,54	145764	25	19462	141855	118730	33	45	2.89	38.12	84.74	336.64	5	236273	19.5	4	0	1
2157	1,6,9,11,13,16,18,21,28,34,35,37,42,46,48,51	156526	23	58667	153192	100319	33	49	2.77	35.40	80.27	381.03	7	289075	19.5	4	0	1
2158	1,6,9,11,13,16,18,21,28,34,35,37,42,46,48,52,53,54	153652	23	47086	150318	107553	31	48	2.89	35.80	80.27	372.34	6	258076	19.5	4	0	1
2159	1,6,9,11,13,16,18,21,28,34,35,37,42,47,50,54	145860	24	19518	142527	119402	33	45	2.89	38.12	86.01	337.26	5	236609	19.5	4	0	1
2160	1,6,9,11,13,16,18,21,28,34,35,37,42,49,53,54	145476	23	18887	142143	119018	31	44	3.26	36.21	82.85	342.24	6	234331	19.5	4	0	1
2161	1,6,9,11,13,16,18,21,28,34,36,39,41,40,42,46,48,51	168273	26	95326	155092	92001	33	52	2.87	35.30	129.11	351.94	7	355738	19.5	4	0	1
2162	1,6,9,11,13,16,18,21,28,34,36,39,41,40,42,46,48,52,53,54	165398	26	83746	152218	99235	31	51	3.00	35.70	129.11	343.25	6	324739	19.5	4	0	1
2163	1,6,9,11,13,16,18,21,28,34,36,39,41,40,42,47,50,54	157607	27	56178	144426	111084	33	48	3.00	38.02	134.85	308.17	5	303272	19.5	4	0	1
2164	1,6,9,11,13,16,18,21,28,34,36,39,41,40,42,49,53,54	157223	26	55547	144042	110700	31	47	3.36	36.11	131.69	313.15	6	300994	19.5	4	0	1
2165	1,6,9,11,13,16,18,21,28,34,36,39,41,43,47,46,48,51	168289	27	95383	155683	92593	33	52	2.87	35.30	129.93	352.08	7	355994	19.5	4	0	1
2166	1,6,9,11,13,16,18,21,28,34,36,39,41,43,47,46,48,52,53,54	165414	27	83803	152809	99827	31	51	3.00	35.70	129.93	343.39	6	324995	19.5	4	0	1
2167	1,6,9,11,13,16,18,21,28,34,36,39,41,43,47,49,53,54	157239	28	55603	144634	111292	31	47	3.36	36.11	132.50	313.29	6	301249	19.5	4	0	1
2168	1,6,9,11,13,16,18,21,28,34,36,39,41,43,50,54	156360	26	54972	143755	110413	31	48	3.00	38.02	133.58	306.69	5	298475	19.5	4	0	1
2169	1,6,9,11,13,16,18,21,28,34,36,39,44,55	148136	21	66339	142327	108985	30	43	2.87	37.18	132.97	302.55	5	294450	19.5	4	0	1
2170	1,6,9,11,13,16,18,21,28,34,36,39,45,55	163120	25	93658	149901	102369	35	48	3.28	41.53	153.02	321.80	5	350453	19.5	4	0	1
2171	1,6,9,11,13,16,18,21,28,34,38,40,42,46,48,51	156874	23	58629	152965	109977	34	49	3.03	36.46	80.57	379.95	7	289578	19.5	4	0	6
2172	1,6,9,11,13,16,18,21,28,34,38,40,42,46,48,52,53,54	153999	23	47049	150090	117212	32	48	3.15	36.86	80.57	371.26	6	258579	19.5	4	0	6
2173	1,6,9,11,13,16,18,21,28,34,38,40,42,47,50,54	146208	24	19481	142299	129061	34	45	3.15	39.18	86.30	336.18	5	237112	19.5	4	0	6
2174	1,6,9,11,13,16,18,21,28,34,38,40,42,49,53,54	145824	23	18849	141915	128677	32	44	3.52	37.27	83.14	341.16	6	234834	19.5	4	0	6
2175	1,6,9,11,13,16,18,21,28,34,38,41,44,55	150331	20	43235	140200	126961	31	44	3.03	38.34	84.42	349.09	5	268369	19.5	4	0	6
2176	1,6,9,11,13,16,18,21,28,34,38,41,45,55	165315	24	70554	147774	120345	36	49	3.43	42.69	104.48	368.35	5	324371	19.5	4	0	6
2177	1,6,9,11,13,16,18,21,28,34,38,43,47,46,48,51	156890	22	58685	153556	110569	34	49	3.03	36.46	81.38	380.09	7	289834	19.5	4	0	6
2178	1,6,9,11,13,16,18,21,28,34,38,43,47,46,48,52,53,54	154016	22	47105	150682	117803	32	48	3.15	36.86	81.38	371.40	6	258835	19.5	4	0	6
2179	1,6,9,11,13,16,18,21,28,34,38,43,47,49,53,54	145840	23	18906	142507	129268	32	44	3.52	37.27	83.95	341.30	6	235089	19.5	4	0	6
2180	1,6,9,11,13,16,18,21,28,34,38,43,50,54	144961	21	18274	141627	128389	32	45	3.15	39.18	85.03	334.71	5	232315	19.5	4	0	6
2181	1,6,9,11,13,16,20,23,26,30,32,46,47,50,54	167895	27	71238	141934	110501	35	53	2.96	45.47	104.97	370.09	5	359499	29	4	1	5
2182	1,6,9,11,13,16,20,23,26,30,32,46,49,53,54	167511	26	70606	141550	110117	33	52	3.33	43.57	101.81	374.48	6	357220	29	4	1	5
2183	1,6,9,11,13,16,20,23,26,30,32,48,51	163104	24	94929	137142	83814	35	55	2.84	42.75	99.24	360.64	5	389703	29	4	1	5
2184	1,6,9,11,13,16,20,23,26,30,32,48,52,53,54	160229	24	83348	134268	91048	33	54	2.96	43.16	99.24	351.95	4	358704	29	4	1	5
2185	1,6,9,11,13,16,20,23,26,31,34,35,37,40,41,44,55	151827	22	42200	142067	114077	30	42	3.26	40.20	89.68	348.20	5	261525	18	4	1	1
2186	1,6,9,11,13,16,20,23,26,31,34,35,37,40,41,45,55	166811	26	69519	149641	107461	35	47	3.66	44.55	109.73	367.46	5	317527	18	4	1	1
2187	1,6,9,11,13,16,20,23,26,31,34,35,37,40,43,47,46,48,51	158386	26	57650	155423	97684	33	47	3.26	38.32	86.63	379.04	7	282990	18	4	1	1
2188	1,6,9,11,13,16,20,23,26,31,34,35,37,40,43,47,46,48,52,53,54	155512	26	46070	152549	104918	31	46	3.38	38.72	86.63	370.35	6	251991	18	4	1	1
2189	1,6,9,11,13,16,20,23,26,31,34,35,37,40,43,47,49,53,54	147337	27	17870	144374	116383	31	42	3.75	39.13	89.20	340.25	6	228246	18	4	1	1
2190	1,6,9,11,13,16,20,23,26,31,34,35,37,40,43,50,54	146458	25	17239	143495	115504	31	43	3.38	41.04	90.28	333.66	5	225472	18	4	1	1
2191	1,6,9,11,13,16,20,23,26,31,34,35,37,42,46,48,51	157220	23	56443	154832	97093	31	47	3.26	38.32	85.82	378.04	7	278274	18	4	1	1
2192	1,6,9,11,13,16,20,23,26,31,34,35,37,42,46,48,52,53,54	154346	23	44863	151958	104327	29	46	3.38	38.72	85.82	369.35	6	247275	18	4	1	1
2193	1,6,9,11,13,16,20,23,26,31,34,35,37,42,47,50,54	146554	24	17295	144166	116176	31	43	3.38	41.04	91.55	334.27	5	225808	18	4	1	1

Table F-1: Route Data for All Routes

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
2194	1,6,9,11,13,16,20,23,26,31,34,35,37,42,49,53,54	146170	23	16664	143782	115792	29	42	3.75	39.13	88.39	339.25	6	223529	18	4	1	1
2195	1,6,9,11,13,16,20,23,26,31,34,36,39,41,40,42,46,48,51	168966	26	93103	156732	88775	31	50	3.36	38.22	134.66	348.95	7	344937	18	4	1	1
2196	1,6,9,11,13,16,20,23,26,31,34,36,39,41,40,42,46,48,52,53,54	166092	26	81523	153858	96009	29	49	3.48	38.62	134.66	340.26	6	313938	18	4	1	1
2197	1,6,9,11,13,16,20,23,26,31,34,36,39,41,40,42,47,50,54	158301	27	53955	146066	107858	31	46	3.48	40.94	140.39	305.18	5	292471	18	4	1	1
2198	1,6,9,11,13,16,20,23,26,31,34,36,39,41,40,42,49,53,54	157917	26	53324	145682	107474	29	45	3.85	39.03	137.23	310.16	6	290192	18	4	1	1
2199	1,6,9,11,13,16,20,23,26,31,34,36,39,41,43,47,46,48,51	168983	27	93160	157323	89367	31	50	3.36	38.22	135.47	349.09	7	345192	18	4	1	1
2200	1,6,9,11,13,16,20,23,26,31,34,36,39,41,43,47,46,48,52,53,54	166108	27	81579	154449	96601	29	49	3.48	38.62	135.47	340.40	6	314193	18	4	1	1
2201	1,6,9,11,13,16,20,23,26,31,34,36,39,41,43,47,49,53,54	157933	28	53380	146274	108066	29	45	3.85	39.03	138.04	310.30	6	290448	18	4	1	1
2202	1,6,9,11,13,16,20,23,26,31,34,36,39,41,43,50,54	157054	26	52748	145394	107187	29	46	3.48	40.94	139.12	303.71	5	287674	18	4	1	1
2203	1,6,9,11,13,16,20,23,26,31,34,36,39,44,55	148830	21	64115	143967	105759	28	41	3.36	40.10	138.52	299.56	5	283649	18	4	1	1
2204	1,6,9,11,13,16,20,23,26,31,34,36,39,45,55	163814	25	91435	151541	99143	33	46	3.76	44.45	158.57	318.82	5	339651	18	4	1	1
2205	1,6,9,11,13,16,20,23,26,31,34,38,40,42,46,48,51	157568	23	56406	154605	106751	32	47	3.51	39.38	86.11	376.96	7	278777	18	4	1	6
2206	1,6,9,11,13,16,20,23,26,31,34,38,40,42,46,48,52,53,54	154693	23	44825	151730	113985	30	46	3.64	39.78	86.11	368.27	6	247778	18	4	1	6
2207	1,6,9,11,13,16,20,23,26,31,34,38,40,42,47,50,54	146902	24	17257	143939	125835	32	43	3.64	42.10	91.84	333.19	5	226311	18	4	1	6
2208	1,6,9,11,13,16,20,23,26,31,34,38,40,42,49,53,54	146518	23	16626	143555	125451	30	42	4.01	40.19	88.68	338.17	6	224032	18	4	1	6
2209	1,6,9,11,13,16,20,23,26,31,34,38,41,44,55	151025	20	41011	141840	123735	29	42	3.51	41.27	89.97	346.11	5	257567	18	4	1	6
2210	1,6,9,11,13,16,20,23,26,31,34,38,41,45,55	166009	24	68331	149414	117119	34	47	3.92	45.61	110.02	365.36	5	313570	18	4	1	6
2211	1,6,9,11,13,16,20,23,26,31,34,38,43,47,46,48,51	157584	22	56462	155196	107343	32	47	3.51	39.38	86.92	377.11	7	279033	18	4	1	6
2212	1,6,9,11,13,16,20,23,26,31,34,38,43,47,46,48,52,53,54	154709	22	44882	152322	114577	30	46	3.64	39.78	86.92	368.41	6	248033	18	4	1	6
2213	1,6,9,11,13,16,20,23,26,31,34,38,43,47,49,53,54	146534	23	16682	144146	126042	30	42	4.01	40.19	89.50	338.32	6	224288	18	4	1	6
2214	1,6,9,11,13,16,20,23,26,31,34,38,43,50,54	145655	21	16051	143267	125163	30	43	3.64	42.10	90.58	331.72	5	221514	18	4	1	6
2215	1,6,9,11,13,16,20,23,26,33,37,40,41,44,55	151251	18	41173	141905	109260	30	43	3.26	39.21	90.10	346.77	5	260239	18	4	1	1
2216	1,6,9,11,13,16,20,23,26,33,37,40,41,45,55	166235	22	68493	149478	102644	35	48	3.66	43.56	110.15	366.03	5	316241	18	4	1	1
2217	1,6,9,11,13,16,20,23,26,33,37,40,43,47,46,48,51	157810	22	56624	155261	92868	33	48	3.26	37.33	87.06	377.61	7	281704	18	4	1	1
2218	1,6,9,11,13,16,20,23,26,33,37,40,43,47,46,48,52,53,54	154936	22	45044	152386	100102	31	47	3.38	37.73	87.06	368.92	6	250705	18	4	1	1
2219	1,6,9,11,13,16,20,23,26,33,37,40,43,47,49,53,54	146761	23	16844	144211	111567	31	43	3.75	38.14	89.63	338.82	6	226960	18	4	1	1
2220	1,6,9,11,13,16,20,23,26,33,37,40,43,50,54	145882	21	16213	143332	110688	31	44	3.38	40.05	90.71	332.23	5	224186	18	4	1	1
2221	1,6,9,11,13,16,20,23,26,33,37,42,46,48,51	156644	19	55417	154669	92276	31	48	3.26	37.33	86.24	376.61	7	276988	18	4	1	1
2222	1,6,9,11,13,16,20,23,26,33,37,42,46,48,52,53,54	153770	19	43837	151795	99510	29	47	3.38	37.73	86.24	367.92	6	245988	18	4	1	1
2223	1,6,9,11,13,16,20,23,26,33,37,42,47,50,54	145978	20	16269	144004	111359	31	44	3.38	40.05	91.98	332.84	5	224522	18	4	1	1
2224	1,6,9,11,13,16,20,23,26,33,37,42,49,53,54	145594	19	15637	143620	110975	29	43	3.75	38.14	88.82	337.82	6	222243	18	4	1	1
2225	1,6,9,11,13,16,20,23,27,28,31,30,32,46,47,50,54	168206	27	69918	142134	113267	35	53	2.96	44.31	114.12	363.10	5	357336	29	4	0	5
2226	1,6,9,11,13,16,20,23,27,28,31,30,32,46,49,53,54	167822	26	69287	141750	112883	33	52	3.33	42.40	110.96	367.50	6	355058	29	4	0	5
2227	1,6,9,11,13,16,20,23,27,28,31,30,32,48,51	163415	24	93609	137342	86580	35	55	2.84	41.59	108.38	353.66	5	387540	29	4	0	5
2228	1,6,9,11,13,16,20,23,27,28,31,30,32,48,52,53,54	160540	24	82029	134468	93814	33	54	2.96	41.99	108.38	344.97	4	356541	29	4	0	5
2229	1,6,9,11,13,16,20,23,27,28,31,33,37,40,41,44,55	151562	20	39854	142105	112027	30	43	3.26	38.05	99.24	339.73	5	258076	18	4	0	1
2230	1,6,9,11,13,16,20,23,27,28,31,33,37,40,41,45,55	166546	24	67173	149679	105410	35	48	3.66	42.40	119.30	358.99	5	314079	18	4	0	1
2231	1,6,9,11,13,16,20,23,27,28,31,33,37,40,43,47,46,48,51	158121	24	55304	155461	95634	33	48	3.26	36.17	96.20	370.57	7	279541	18	4	0	1
2232	1,6,9,11,13,16,20,23,27,28,31,33,37,40,43,47,46,48,52,53,54	155247	24	43724	152587	102868	31	47	3.38	36.57	96.20	361.88	6	248542	18	4	0	1
2233	1,6,9,11,13,16,20,23,27,28,31,33,37,40,43,47,49,53,54	147072	25	15525	144411	114333	31	43	3.75	36.98	98.77	331.78	6	224797	18	4	0	1
2234	1,6,9,11,13,16,20,23,27,28,31,33,37,40,43,50,54	146193	23	14893	143532	113454	31	44	3.38	38.89	99.85	325.19	5	222023	18	4	0	1
2235	1,6,9,11,13,16,20,23,27,28,31,33,37,42,46,48,51	156955	21	54098	154870	95042	31	48	3.26	36.17	95.39	369.57	7	274825	18	4	0	1
2236	1,6,9,11,13,16,20,23,27,28,31,33,37,42,46,48,52,53,54	154081	21	42517	151995	102277	29	47	3.38	36.57	95.39	360.88	6	243826	18	4	0	1
2237	1,6,9,11,13,16,20,23,27,28,31,33,37,42,47,50,54	146289	22	14949	144204	114126	31	44	3.38	38.89	101.12	325.80	5	222359	18	4	0	1
2238	1,6,9,11,13,16,20,23,27,28,31,33,37,42,49,53,54	145905	21	14318	143820	113742	29	43	3.75	36.98	97.96	330.78	6	220081	18	4	0	1
2239	1,6,9,11,13,16,20,23,27,28,34,35,37,40,41,44,55	151312	20	40053	142268	116843	30	42	3.26	39.04	98.20	339.04	5	255229	18	4	0	1
2240	1,6,9,11,13,16,20,23,27,28,34,35,37,40,41,45,55	166296	24	67373	149841	110227	35	47	3.66	43.39	118.25	358.30	5	311232	18	4	0	1
2241	1,6,9,11,13,16,20,23,27,28,34,35,37,40,43,47,46,48,51	157871	24	55504	155624	100450	33	47	3.26	37.16	95.16	369.88	7	276695	18	4	0	1
2242	1,6,9,11,13,16,20,23,27,28,34,35,37,40,43,47,46,48,52,53,54	154997	24	43924	152749	107685	31	46	3.38	37.56	95.16	361.19	6	245696	18	4	0	1
2243	1,6,9,11,13,16,20,23,27,28,34,35,37,40,43,47,49,53,54	146821	25	15724	144574	119150	31	42	3.75	37.97	97.73	331.09	6	221950	18	4	0	1
2244	1,6,9,11,13,16,20,23,27,28,34,35,37,40,43,50,54	145942	23	15093	143695	118270	31	43	3.38	39.88	98.81	324.50	5	219176	18	4	0	1

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
2245	1,6,9,11,13,16,20,23,27,28,34,35,37,42,46,48,51	156704	21	54297	155032	99859	31	47	3.26	37.16	94.34	368.88	7	271978	18	4	0	1
2246	1,6,9,11,13,16,20,23,27,28,34,35,37,42,46,48,52,53,54	153830	21	42717	152158	107093	29	46	3.38	37.56	94.34	360.19	6	240979	18	4	0	1
2247	1,6,9,11,13,16,20,23,27,28,34,35,37,42,47,50,54	146039	22	15149	144367	118942	31	43	3.38	39.88	100.08	325.11	5	219513	18	4	0	1
2248	1,6,9,11,13,16,20,23,27,28,34,35,37,42,49,53,54	145655	21	14517	143983	118558	29	42	3.75	37.97	96.92	330.09	6	217234	18	4	0	1
2249	1,6,9,11,13,16,20,23,27,28,34,36,39,41,40,42,46,48,51	168451	24	90957	156932	91541	31	50	3.36	37.06	143.18	339.79	7	338641	18	4	0	1
2250	1,6,9,11,13,16,20,23,27,28,34,36,39,41,40,42,46,48,52,53,54	165577	24	79377	154058	98776	29	49	3.48	37.46	143.18	331.10	6	307642	18	4	0	1
2251	1,6,9,11,13,16,20,23,27,28,34,36,39,41,40,42,47,50,54	157785	25	51809	146266	110625	31	46	3.48	39.78	148.92	296.02	5	286175	18	4	0	1
2252	1,6,9,11,13,16,20,23,27,28,34,36,39,41,40,42,49,53,54	157401	24	51177	145882	110241	29	45	3.85	37.87	145.76	301.00	6	283897	18	4	0	1
2253	1,6,9,11,13,16,20,23,27,28,34,36,39,41,43,47,46,48,51	168467	25	91014	157523	92133	31	50	3.36	37.06	144.00	339.93	7	338897	18	4	0	1
2254	1,6,9,11,13,16,20,23,27,28,34,36,39,41,43,47,46,48,52,53,54	165593	25	79433	154649	99367	29	49	3.48	37.46	144.00	331.24	6	307898	18	4	0	1
2255	1,6,9,11,13,16,20,23,27,28,34,36,39,41,43,47,49,53,54	157417	26	51234	146474	110832	29	45	3.85	37.87	146.57	301.14	6	284153	18	4	0	1
2256	1,6,9,11,13,16,20,23,27,28,34,36,39,41,43,50,54	156538	24	50602	145595	109953	29	46	3.48	39.78	147.65	294.55	5	281379	18	4	0	1
2257	1,6,9,11,13,16,20,23,27,28,34,36,39,44,55	148314	19	61969	144167	108526	28	41	3.36	38.94	147.04	290.40	5	277354	18	4	0	1
2258	1,6,9,11,13,16,20,23,27,28,34,36,39,45,55	163298	23	89289	151741	101909	33	46	3.76	43.29	167.09	309.66	5	333356	18	4	0	1
2259	1,6,9,11,13,16,20,23,27,28,34,38,40,42,46,48,51	157052	21	54259	154805	109518	32	47	3.51	38.22	94.64	367.80	7	272481	18	4	0	6
2260	1,6,9,11,13,16,20,23,27,28,34,38,40,42,46,48,52,53,54	154178	21	42679	151930	116752	30	46	3.64	38.62	94.64	359.11	6	241482	18	4	0	6
2261	1,6,9,11,13,16,20,23,27,28,34,38,40,42,47,50,54	146386	22	15111	144139	128601	32	43	3.64	40.94	100.37	324.03	5	220016	18	4	0	6
2262	1,6,9,11,13,16,20,23,27,28,34,38,40,42,49,53,54	146002	21	14480	143755	128217	30	42	4.01	39.03	97.21	329.01	6	217737	18	4	0	6
2263	1,6,9,11,13,16,20,23,27,28,34,38,41,44,55	150509	18	38865	142040	126502	29	42	3.51	40.10	98.49	336.95	5	251272	18	4	0	6
2264	1,6,9,11,13,16,20,23,27,28,34,38,41,45,55	165493	22	66185	149614	119885	34	47	3.92	44.45	118.55	356.21	5	307274	18	4	0	6
2265	1,6,9,11,13,16,20,23,27,28,34,38,43,47,46,48,51	157068	20	54316	155396	110109	32	47	3.51	38.22	95.45	367.95	7	272737	18	4	0	6
2266	1,6,9,11,13,16,20,23,27,28,34,38,43,47,46,48,52,53,54	154194	20	42736	152522	117343	30	46	3.64	38.62	95.45	359.26	6	241738	18	4	0	6
2267	1,6,9,11,13,16,20,23,27,28,34,38,43,47,49,53,54	146019	21	14536	144346	128808	30	42	4.01	39.03	98.02	329.16	6	217993	18	4	0	6
2268	1,6,9,11,13,16,20,23,27,28,34,38,43,50,54	145139	19	13905	143467	127929	30	43	3.64	40.94	99.10	322.56	5	215219	18	4	0	6
2269	1,6,9,11,17,18,20,23,26,30,32,46,47,50,54	167959	27	71303	141632	106589	35	54	2.96	45.47	104.97	369.43	5	360294	19.5	4	1	5
2270	1,6,9,11,17,18,20,23,26,30,32,46,49,53,54	167575	26	70671	141248	106205	33	53	3.33	43.57	101.81	373.83	6	358015	19.5	4	1	5
2271	1,6,9,11,17,18,20,23,26,30,32,48,51	163167	24	94993	136841	79902	35	56	2.84	42.75	99.24	359.99	5	390498	19.5	4	1	5
2272	1,6,9,11,17,18,20,23,26,30,32,48,52,53,54	160293	24	83413	133966	87136	33	55	2.96	43.16	99.24	351.30	4	359499	19.5	4	1	5
2273	1,6,9,11,17,18,20,23,26,31,34,35,37,40,41,44,55	151891	22	42264	141766	110166	30	43	3.26	40.20	89.68	347.55	5	262320	8.5	4	1	1
2274	1,6,9,11,17,18,20,23,26,31,34,35,37,40,41,45,55	166875	26	69584	149340	103549	35	48	3.66	44.55	109.73	366.80	5	318322	8.5	4	1	1
2275	1,6,9,11,17,18,20,23,26,31,34,35,37,40,43,47,46,48,51	158450	26	57715	155122	93773	33	48	3.26	38.32	86.63	378.39	7	283785	8.5	4	1	1
2276	1,6,9,11,17,18,20,23,26,31,34,35,37,40,43,47,46,48,52,53,54	155576	26	46135	152248	101007	31	47	3.38	38.72	86.63	369.70	6	252786	8.5	4	1	1
2277	1,6,9,11,17,18,20,23,26,31,34,35,37,40,43,47,49,53,54	147400	27	17935	144073	112472	31	43	3.75	39.13	89.20	339.60	6	229041	8.5	4	1	1
2278	1,6,9,11,17,18,20,23,26,31,34,35,37,40,43,50,54	146521	25	17304	143193	111593	31	44	3.38	41.04	90.28	333.01	5	226267	8.5	4	1	1
2279	1,6,9,11,17,18,20,23,26,31,34,35,37,42,46,48,51	157284	23	56508	154531	93182	31	48	3.26	38.32	85.82	377.39	7	279069	8.5	4	1	1
2280	1,6,9,11,17,18,20,23,26,31,34,35,37,42,46,48,52,53,54	154409	23	44928	151657	100416	29	47	3.38	38.72	85.82	368.70	6	248070	8.5	4	1	1
2281	1,6,9,11,17,18,20,23,26,31,34,35,37,42,47,50,54	146618	24	17360	143865	112265	31	44	3.38	41.04	91.55	333.62	5	226603	8.5	4	1	1
2282	1,6,9,11,17,18,20,23,26,31,34,35,37,42,49,53,54	146234	23	16728	143481	111881	29	43	3.75	39.13	88.39	338.60	6	224324	8.5	4	1	1
2283	1,6,9,11,17,18,20,23,26,31,34,36,39,41,40,42,46,48,51	169030	26	93168	156431	84864	31	51	3.36	38.22	134.66	348.30	7	345732	8.5	4	1	1
2284	1,6,9,11,17,18,20,23,26,31,34,36,39,41,40,42,46,48,52,53,54	166156	26	81588	153556	92098	29	50	3.48	38.62	134.66	339.61	6	314733	8.5	4	1	1
2285	1,6,9,11,17,18,20,23,26,31,34,36,39,41,40,42,47,50,54	158364	27	54020	145765	103947	31	47	3.48	40.94	140.39	304.53	5	293266	8.5	4	1	1
2286	1,6,9,11,17,18,20,23,26,31,34,36,39,41,40,42,49,53,54	157981	26	53388	145381	103563	29	46	3.85	39.03	137.23	309.51	6	290987	8.5	4	1	1
2287	1,6,9,11,17,18,20,23,26,31,34,36,39,41,43,47,46,48,51	169046	27	93224	157022	85455	31	51	3.36	38.22	135.47	348.44	7	345987	8.5	4	1	1
2288	1,6,9,11,17,18,20,23,26,31,34,36,39,41,43,47,46,48,52,53,54	166172	27	81644	154148	92689	29	50	3.48	38.62	135.47	339.75	6	314988	8.5	4	1	1
2289	1,6,9,11,17,18,20,23,26,31,34,36,39,41,43,47,49,53,54	157997	28	53445	145972	104154	29	46	3.85	39.03	138.04	309.65	6	291243	8.5	4	1	1
2290	1,6,9,11,17,18,20,23,26,31,34,36,39,41,43,50,54	157117	26	52813	145093	103275	29	47	3.48	40.94	139.12	303.06	5	288469	8.5	4	1	1
2291	1,6,9,11,17,18,20,23,26,31,34,36,39,44,55	148893	21	64180	143666	101848	28	42	3.36	40.10	138.52	298.91	5	284444	8.5	4	1	1
2292	1,6,9,11,17,18,20,23,26,31,34,36,39,45,55	163877	25	91500	151240	95232	33	47	3.76	44.45	158.57	318.17	5	340446	8.5	4	1	1
2293	1,6,9,11,17,18,20,23,26,31,34,38,40,42,46,48,51	157631	23	56470	154303	102840	32	48	3.51	39.38	86.11	376.31	7	279572	8.5	4	1	6
2294	1,6,9,11,17,18,20,23,26,31,34,38,40,42,46,48,52,53,54	154757	23	44890	151429	110074	30	47	3.64	39.78	86.11	367.62	6	248573	8.5	4	1	6
2295	1,6,9,11,17,18,20,23,26,31,34,38,40,42,47,50,54	146966	24	17322	143638	121923	32	44	3.64	42.10	91.84	332.54	5	227106	8.5	4	1	6

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
2296	1,6,9,11,17,18,20,23,26,31,34,38,40,42,49,53,54	146582	23	16691	143254	121539	30	43	4.01	40.19	88.68	337.52	6	224827	8.5	4	1	6
2297	1,6,9,11,17,18,20,23,26,31,34,38,41,44,55	151088	20	41076	141539	119824	29	43	3.51	41.27	89.97	345.46	5	258362	8.5	4	1	6
2298	1,6,9,11,17,18,20,23,26,31,34,38,41,45,55	166072	24	68396	149112	113208	34	48	3.92	45.61	110.02	364.71	5	314365	8.5	4	1	6
2299	1,6,9,11,17,18,20,23,26,31,34,38,43,47,46,48,51	157648	22	56527	154895	103431	32	48	3.51	39.38	86.92	376.46	7	279828	8.5	4	1	6
2300	1,6,9,11,17,18,20,23,26,31,34,38,43,47,46,48,52,53,54	154773	22	44947	152020	110665	30	47	3.64	39.78	86.92	367.76	6	248829	8.5	4	1	6
2301	1,6,9,11,17,18,20,23,26,31,34,38,43,47,49,53,54	146598	23	16747	143845	122131	30	43	4.01	40.19	89.50	337.66	6	225083	8.5	4	1	6
2302	1,6,9,11,17,18,20,23,26,31,34,38,43,50,54	145719	21	16116	142966	121251	30	44	3.64	42.10	90.58	331.07	5	222309	8.5	4	1	6
2303	1,6,9,11,17,18,20,23,26,33,37,40,41,44,55	151315	18	41238	141603	105349	30	44	3.26	39.21	90.10	346.12	5	261034	8.5	4	1	1
2304	1,6,9,11,17,18,20,23,26,33,37,40,41,45,55	166299	22	68558	149177	98733	35	49	3.66	43.56	110.15	365.37	5	317036	8.5	4	1	1
2305	1,6,9,11,17,18,20,23,26,33,37,40,43,47,46,48,51	157874	22	56689	154959	88956	33	49	3.26	37.33	87.06	376.96	7	282499	8.5	4	1	1
2306	1,6,9,11,17,18,20,23,26,33,37,40,43,47,46,48,52,53,54	155000	22	45109	152085	96190	31	48	3.38	37.73	87.06	368.27	6	251500	8.5	4	1	1
2307	1,6,9,11,17,18,20,23,26,33,37,40,43,47,49,53,54	146824	23	16909	143910	107655	31	44	3.75	38.14	89.63	338.17	6	227755	8.5	4	1	1
2308	1,6,9,11,17,18,20,23,26,33,37,40,43,50,54	145945	21	16277	143031	106776	31	45	3.38	40.05	90.71	331.58	5	224981	8.5	4	1	1
2309	1,6,9,11,17,18,20,23,26,33,37,42,46,48,51	156708	19	55482	154368	88365	31	49	3.26	37.33	86.24	375.96	7	277783	8.5	4	1	1
2310	1,6,9,11,17,18,20,23,26,33,37,42,46,48,52,53,54	153833	19	43902	151494	95599	29	48	3.38	37.73	86.24	367.27	6	246784	8.5	4	1	1
2311	1,6,9,11,17,18,20,23,26,33,37,42,47,50,54	146042	20	16334	143702	107448	31	45	3.38	40.05	91.98	332.19	5	225317	8.5	4	1	1
2312	1,6,9,11,17,18,20,23,26,33,37,42,49,53,54	145658	19	15702	143319	107064	29	44	3.75	38.14	88.82	337.17	6	223038	8.5	4	1	1
2313	1,6,9,11,17,18,20,23,27,28,31,30,32,46,47,50,54	168270	27	69983	141833	109355	35	54	2.96	44.31	114.12	362.45	5	358131	19.5	4	0	5
2314	1,6,9,11,17,18,20,23,27,28,31,30,32,46,49,53,54	167886	26	69351	141449	108971	33	53	3.33	42.40	110.96	366.85	6	355853	19.5	4	0	5
2315	1,6,9,11,17,18,20,23,27,28,31,30,32,48,51	163478	24	93674	137041	82668	35	56	2.84	41.59	108.38	353.01	5	388335	19.5	4	0	5
2316	1,6,9,11,17,18,20,23,27,28,31,30,32,48,52,53,54	160604	24	82094	134167	89903	33	55	2.96	41.99	108.38	344.31	4	357336	19.5	4	0	5
2317	1,6,9,11,17,18,20,23,27,28,31,33,37,40,41,44,55	151626	20	39919	141804	108115	30	44	3.26	38.05	99.24	339.08	5	258871	8.5	4	0	1
2318	1,6,9,11,17,18,20,23,27,28,31,33,37,40,41,45,55	166610	24	67238	149377	101499	35	49	3.66	42.40	119.30	358.34	5	314874	8.5	4	0	1
2319	1,6,9,11,17,18,20,23,27,28,31,33,37,40,43,47,46,48,51	158185	24	55369	155160	91722	33	49	3.26	36.17	96.20	369.92	7	280336	8.5	4	0	1
2320	1,6,9,11,17,18,20,23,27,28,31,33,37,40,43,47,46,48,52,53,54	155311	24	43789	152285	98957	31	48	3.38	36.57	96.20	361.23	6	249337	8.5	4	0	1
2321	1,6,9,11,17,18,20,23,27,28,31,33,37,40,43,47,49,53,54	147135	25	15589	144110	110422	31	44	3.75	36.98	98.77	331.13	6	225592	8.5	4	0	1
2322	1,6,9,11,17,18,20,23,27,28,31,33,37,40,43,50,54	146256	23	14958	143231	109542	31	45	3.38	38.89	99.85	324.54	5	222818	8.5	4	0	1
2323	1,6,9,11,17,18,20,23,27,28,31,33,37,42,46,48,51	157019	21	54162	154568	91131	31	49	3.26	36.17	95.39	368.92	7	275620	8.5	4	0	1
2324	1,6,9,11,17,18,20,23,27,28,31,33,37,42,46,48,52,53,54	154144	21	42582	151694	98365	29	48	3.38	36.57	95.39	360.23	6	244621	8.5	4	0	1
2325	1,6,9,11,17,18,20,23,27,28,31,33,37,42,47,50,54	146353	22	15014	143903	110214	31	45	3.38	38.89	101.12	325.15	5	223154	8.5	4	0	1
2326	1,6,9,11,17,18,20,23,27,28,31,33,37,42,49,53,54	145969	21	14383	143519	109830	29	44	3.75	36.98	97.96	330.13	6	220876	8.5	4	0	1
2327	1,6,9,11,17,18,20,23,27,28,34,35,37,40,41,44,55	151375	20	40118	141966	112932	30	43	3.26	39.04	98.20	338.39	5	256025	8.5	4	0	1
2328	1,6,9,11,17,18,20,23,27,28,34,35,37,40,41,45,55	166359	24	67438	149540	106315	35	48	3.66	43.39	118.25	357.65	5	312027	8.5	4	0	1
2329	1,6,9,11,17,18,20,23,27,28,34,35,37,40,43,47,46,48,51	157935	24	55569	155322	96539	33	48	3.26	37.16	95.16	369.23	7	277490	8.5	4	0	1
2330	1,6,9,11,17,18,20,23,27,28,34,35,37,40,43,47,46,48,52,53,54	155060	24	43989	152448	103773	31	47	3.38	37.56	95.16	360.54	6	246491	8.5	4	0	1
2331	1,6,9,11,17,18,20,23,27,28,34,35,37,40,43,47,49,53,54	146885	25	15789	144273	115238	31	43	3.75	37.97	97.73	330.44	6	222745	8.5	4	0	1
2332	1,6,9,11,17,18,20,23,27,28,34,35,37,40,43,50,54	146006	23	15157	143394	114359	31	44	3.38	39.88	98.81	323.85	5	219971	8.5	4	0	1
2333	1,6,9,11,17,18,20,23,27,28,34,35,37,42,46,48,51	156768	21	54362	154731	95948	31	48	3.26	37.16	94.34	368.23	7	272773	8.5	4	0	1
2334	1,6,9,11,17,18,20,23,27,28,34,35,37,42,46,48,52,53,54	153894	21	42782	151857	103182	29	47	3.38	37.56	94.34	359.54	6	241774	8.5	4	0	1
2335	1,6,9,11,17,18,20,23,27,28,34,35,37,42,47,50,54	146102	22	15214	144065	115031	31	44	3.38	39.88	100.08	324.46	5	220308	8.5	4	0	1
2336	1,6,9,11,17,18,20,23,27,28,34,35,37,42,49,53,54	145718	21	14582	143681	114647	29	43	3.75	37.97	96.92	329.44	6	218029	8.5	4	0	1
2337	1,6,9,11,17,18,20,23,27,28,34,36,39,41,40,42,46,48,51	168515	24	91022	156631	87630	31	51	3.36	37.06	143.18	339.14	7	339436	8.5	4	0	1
2338	1,6,9,11,17,18,20,23,27,28,34,36,39,41,40,42,46,48,52,53,54	165640	24	79442	153757	94864	29	50	3.48	37.46	143.18	330.45	6	308437	8.5	4	0	1
2339	1,6,9,11,17,18,20,23,27,28,34,36,39,41,40,42,47,50,54	157849	25	51874	145965	106713	31	47	3.48	39.78	148.92	295.37	5	286971	8.5	4	0	1
2340	1,6,9,11,17,18,20,23,27,28,34,36,39,41,40,42,49,53,54	157465	24	51242	145581	106329	29	46	3.85	37.87	145.76	300.35	6	284692	8.5	4	0	1
2341	1,6,9,11,17,18,20,23,27,28,34,36,39,41,43,47,46,48,51	168531	25	91078	157222	88221	31	51	3.36	37.06	144.00	339.28	7	339692	8.5	4	0	1
2342	1,6,9,11,17,18,20,23,27,28,34,36,39,41,43,47,46,48,52,53,54	165656	25	79498	154348	95456	29	50	3.48	37.46	144.00	330.59	6	308693	8.5	4	0	1
2343	1,6,9,11,17,18,20,23,27,28,34,36,39,41,43,47,49,53,54	157481	26	51299	146173	106921	29	46	3.85	37.87	146.57	300.49	6	284948	8.5	4	0	1
2344	1,6,9,11,17,18,20,23,27,28,34,36,39,41,43,50,54	156602	24	50667	145293	106041	29	47	3.48	39.78	147.65	293.90	5	282174	8.5	4	0	1
2345	1,6,9,11,17,18,20,23,27,28,34,36,39,44,55	148378	19	62034	143866	104614	28	42	3.36	38.94	147.04	289.75	5	278149	8.5	4	0	1
2346	1,6,9,11,17,18,20,23,27,28,34,36,39,45,55	163362	23	89354	151440	97998	33	47	3.76	43.29	167.09	309.01	5	334151	8.5	4	0	1

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
2347	1,6,9,11,17,18,20,23,27,28,34,38,40,42,46,48,51	157116	21	54324	154504	105606	32	48	3.51	38.22	94.64	367.15	7	273276	8.5	4	0	6
2348	1,6,9,11,17,18,20,23,27,28,34,38,40,42,46,48,52,53,54	154241	21	42744	151629	112840	30	47	3.64	38.62	94.64	358.46	6	242277	8.5	4	0	6
2349	1,6,9,11,17,18,20,23,27,28,34,38,40,42,47,50,54	146450	22	15176	143838	124689	32	44	3.64	40.94	100.37	323.38	5	220811	8.5	4	0	6
2350	1,6,9,11,17,18,20,23,27,28,34,38,40,42,49,53,54	146066	21	14545	143454	124305	30	43	4.01	39.03	97.21	328.36	6	218532	8.5	4	0	6
2351	1,6,9,11,17,18,20,23,27,28,34,38,41,44,55	150573	18	38930	141739	122590	29	43	3.51	40.10	98.49	336.30	5	252067	8.5	4	0	6
2352	1,6,9,11,17,18,20,23,27,28,34,38,41,45,55	165557	22	66250	149313	115974	34	48	3.92	44.45	118.55	355.56	5	308069	8.5	4	0	6
2353	1,6,9,11,17,18,20,23,27,28,34,38,43,47,46,48,51	157132	20	54381	155095	106198	32	48	3.51	38.22	95.45	367.30	7	273532	8.5	4	0	6
2354	1,6,9,11,17,18,20,23,27,28,34,38,43,47,46,48,52,53,54	154258	20	42801	152221	113432	30	47	3.64	38.62	95.45	358.61	6	242533	8.5	4	0	6
2355	1,6,9,11,17,18,20,23,27,28,34,38,43,47,49,53,54	146082	21	14601	144045	124897	30	43	4.01	39.03	98.02	328.51	6	218788	8.5	4	0	6
2356	1,6,9,11,17,18,20,23,27,28,34,38,43,50,54	145203	19	13969	143166	124018	30	44	3.64	40.94	99.10	321.91	5	216014	8.5	4	0	6
2357	1,6,9,11,17,19,22,24,29,36,35,37,40,41,44,55	165153	23	83713	138124	98171	32	48	2.52	38.32	95.18	358.28	5	378816	40	4	0	1
2358	1,6,9,11,17,19,22,24,29,36,35,37,40,41,45,55	180137	27	111032	145698	91555	37	53	2.92	42.67	115.24	377.53	5	434819	40	4	0	1
2359	1,6,9,11,17,19,22,24,29,36,35,37,40,43,47,46,48,51	171712	27	99163	151480	81778	35	53	2.52	36.44	92.14	389.12	7	400281	40	4	0	1
2360	1,6,9,11,17,19,22,24,29,36,35,37,40,43,47,46,48,52,53,54	168838	27	87583	148606	89012	33	52	2.64	36.84	92.14	380.43	6	369282	40	4	0	1
2361	1,6,9,11,17,19,22,24,29,36,35,37,40,43,47,49,53,54	160663	28	59384	140430	100478	33	48	3.01	37.25	94.71	350.33	6	345537	40	4	0	1
2362	1,6,9,11,17,19,22,24,29,36,35,37,40,43,50,54	159784	26	58752	139551	99598	33	49	2.64	39.16	95.79	343.74	5	342763	40	4	0	1
2363	1,6,9,11,17,19,22,24,29,36,35,37,42,46,48,51	170546	24	97957	150889	81187	33	53	2.52	36.44	91.33	388.12	7	395565	40	4	0	1
2364	1,6,9,11,17,19,22,24,29,36,35,37,42,46,48,52,53,54	167672	24	86376	148014	88421	31	52	2.64	36.84	91.33	379.43	6	364566	40	4	0	1
2365	1,6,9,11,17,19,22,24,29,36,35,37,42,47,50,54	159880	25	58809	140223	100270	33	49	2.64	39.16	97.06	344.35	5	343099	40	4	0	1
2366	1,6,9,11,17,19,22,24,29,36,35,37,42,49,53,54	159496	24	58177	139839	99886	31	48	3.01	37.25	93.90	349.33	6	340821	40	4	0	1
2367	1,6,9,11,17,19,22,24,29,36,38,40,42,46,48,51	170894	25	97919	150661	90845	34	53	2.78	37.50	91.62	387.01	7	396068	40	4	0	6
2368	1,6,9,11,17,19,22,24,29,36,38,40,42,46,48,52,53,54	168019	25	86339	147787	98080	32	52	2.90	37.90	91.62	378.32	6	365069	40	4	0	6
2369	1,6,9,11,17,19,22,24,29,36,38,40,42,47,50,54	160228	26	58771	139996	109929	34	49	2.90	40.22	97.35	343.24	5	343602	40	4	0	6
2370	1,6,9,11,17,19,22,24,29,36,38,40,42,49,53,54	159844	25	58139	139612	109545	32	48	3.27	38.31	94.19	348.22	6	341324	40	4	0	6
2371	1,6,9,11,17,19,22,24,29,36,38,41,44,55	164351	22	82525	137896	107830	31	48	2.78	39.38	95.47	356.16	5	374859	40	4	0	6
2372	1,6,9,11,17,19,22,24,29,36,38,41,45,55	179335	26	109844	145470	101213	36	53	3.18	43.73	115.53	375.41	5	430861	40	4	0	6
2373	1,6,9,11,17,19,22,24,29,36,38,43,47,46,48,51	170910	24	97975	151253	91437	34	53	2.78	37.50	92.43	387.16	7	396324	40	4	0	6
2374	1,6,9,11,17,19,22,24,29,36,38,43,47,46,48,52,53,54	168035	24	86395	148378	98671	32	52	2.90	37.90	92.43	378.47	6	365325	40	4	0	6
2375	1,6,9,11,17,19,22,24,29,36,38,43,47,49,53,54	159860	25	58196	140203	110136	32	48	3.27	38.31	95.00	348.37	6	341580	40	4	0	6
2376	1,6,9,11,17,19,22,24,29,36,38,43,50,54	158981	23	57564	139324	109257	32	49	2.90	40.22	96.08	341.77	5	338806	40	4	0	6
2377	1,6,9,11,17,19,22,24,29,39,41,40,42,46,48,51	172664	24	124988	148110	72869	31	56	2.62	36.34	124.32	352.43	7	426672	40	4	0	1
2378	1,6,9,11,17,19,22,24,29,39,41,40,42,46,48,52,53,54	169790	24	113408	145235	80103	29	55	2.74	36.74	124.32	343.74	6	395673	40	4	0	1
2379	1,6,9,11,17,19,22,24,29,39,41,40,42,47,50,54	161999	25	85840	137444	91953	31	52	2.74	39.06	130.05	308.65	5	374207	40	4	0	1
2380	1,6,9,11,17,19,22,24,29,39,41,40,42,49,53,54	161615	24	85209	137060	91569	29	51	3.11	37.15	126.89	313.64	6	371928	40	4	0	1
2381	1,6,9,11,17,19,22,24,29,39,41,43,47,46,48,51	172681	25	125045	148701	73461	31	56	2.62	36.34	125.13	352.57	7	426928	40	4	0	1
2382	1,6,9,11,17,19,22,24,29,39,41,43,47,46,48,52,53,54	169806	25	113465	145827	80695	29	55	2.74	36.74	125.13	343.88	6	395929	40	4	0	1
2383	1,6,9,11,17,19,22,24,29,39,41,43,47,49,53,54	161631	26	85265	137651	92160	29	51	3.11	37.15	127.70	313.78	6	372184	40	4	0	1
2384	1,6,9,11,17,19,22,24,29,39,41,43,50,54	160752	24	84634	136772	91281	29	52	2.74	39.06	128.78	307.18	5	369410	40	4	0	1
2385	1,6,9,11,17,19,22,24,29,39,44,55	152528	19	96001	135345	89853	28	47	2.62	38.22	128.17	303.04	5	365385	40	4	0	1
2386	1,6,9,11,17,19,22,24,29,39,45,55	167511	23	123320	142919	83237	33	52	3.02	42.57	148.23	322.29	5	421387	40	4	0	1
2387	1,6,9,11,17,19,22,25,29,36,35,37,40,41,44,55	163261	22	81821	134903	102651	32	49	2.53	36.88	96.91	348.31	5	375089	40.5	4	0	1
2388	1,6,9,11,17,19,22,25,29,36,35,37,40,41,45,55	178245	26	109140	142477	96034	37	54	2.94	41.23	116.96	367.57	5	431091	40.5	4	0	1
2389	1,6,9,11,17,19,22,25,29,36,35,37,40,43,47,46,48,51	169820	26	97271	148260	86258	35	54	2.53	35.00	93.86	379.16	7	396554	40.5	4	0	1
2390	1,6,9,11,17,19,22,25,29,36,35,37,40,43,47,46,48,52,53,54	166946	26	85691	145385	93492	33	53	2.66	35.40	93.86	370.47	6	365555	40.5	4	0	1
2391	1,6,9,11,17,19,22,25,29,36,35,37,40,43,47,49,53,54	158770	27	57491	137210	104957	33	49	3.03	35.81	96.44	340.37	6	341809	40.5	4	0	1
2392	1,6,9,11,17,19,22,25,29,36,35,37,40,43,50,54	157891	25	56860	136331	104078	33	50	2.66	37.72	97.52	333.77	5	339035	40.5	4	0	1
2393	1,6,9,11,17,19,22,25,29,36,35,37,42,46,48,51	168654	23	96064	147668	85667	33	54	2.53	35.00	93.05	378.16	7	391837	40.5	4	0	1
2394	1,6,9,11,17,19,22,25,29,36,35,37,42,46,48,52,53,54	165779	23	84484	144794	92901	31	53	2.66	35.40	93.05	369.47	6	360838	40.5	4	0	1
2395	1,6,9,11,17,19,22,25,29,36,35,37,42,47,50,54	157988	24	56916	137003	104750	33	50	2.66	37.72	98.78	334.38	5	339372	40.5	4	0	1
2396	1,6,9,11,17,19,22,25,29,36,35,37,42,49,53,54	157604	23	56285	136619	104366	31	49	3.03	35.81	95.62	339.37	6	337093	40.5	4	0	1
2397	1,6,9,11,17,19,22,25,29,36,38,40,42,46,48,51	169001	24	96027	147441	95325	34	54	2.79	36.06	93.34	377.05	7	392340	40.5	4	0	6

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
2398	1,6,9,11,17,19,22,25,29,36,38,40,42,46,48,52,53,54	166127	24	84446	144566	102559	32	53	2.92	36.46	93.34	368.36	6	361341	40.5	4	0	6
2399	1,6,9,11,17,19,22,25,29,36,38,40,42,47,50,54	158336	25	56878	136775	114408	34	50	2.92	38.78	99.07	333.28	5	339875	40.5	4	0	6
2400	1,6,9,11,17,19,22,25,29,36,38,40,42,49,53,54	157952	24	56247	136391	114024	32	49	3.28	36.87	95.91	338.26	6	337596	40.5	4	0	6
2401	1,6,9,11,17,19,22,25,29,36,38,41,44,55	162458	21	80632	134676	112309	31	49	2.79	37.94	97.20	346.19	5	371131	40.5	4	0	6
2402	1,6,9,11,17,19,22,25,29,36,38,41,45,55	177442	25	107952	142250	105693	36	54	3.20	42.29	117.25	365.45	5	427133	40.5	4	0	6
2403	1,6,9,11,17,19,22,25,29,36,38,43,47,46,48,51	169017	23	96083	148032	95917	34	54	2.79	36.06	94.15	377.19	7	392596	40.5	4	0	6
2404	1,6,9,11,17,19,22,25,29,36,38,43,47,46,48,52,53,54	166143	23	84503	145158	103151	32	53	2.92	36.46	94.15	368.50	6	361597	40.5	4	0	6
2405	1,6,9,11,17,19,22,25,29,36,38,43,47,49,53,54	157968	24	56303	136982	114616	32	49	3.28	36.87	96.73	338.40	6	337852	40.5	4	0	6
2406	1,6,9,11,17,19,22,25,29,36,38,43,50,54	157089	22	55672	136103	113737	32	50	2.92	38.78	97.81	331.81	5	335078	40.5	4	0	6
2407	1,6,9,11,17,19,22,25,29,39,41,40,42,46,48,51	170772	23	123096	144889	77349	31	57	2.64	34.90	126.04	342.46	7	422945	40.5	4	0	1
2408	1,6,9,11,17,19,22,25,29,39,41,40,42,46,48,52,53,54	167898	23	111516	142015	84583	29	56	2.76	35.30	126.04	333.77	6	391946	40.5	4	0	1
2409	1,6,9,11,17,19,22,25,29,39,41,40,42,47,50,54	160106	24	83948	134224	96432	31	53	2.76	37.62	131.77	298.69	5	370479	40.5	4	0	1
2410	1,6,9,11,17,19,22,25,29,39,41,40,42,49,53,54	159722	23	83316	133840	96048	29	52	3.13	35.71	128.61	303.67	6	368200	40.5	4	0	1
2411	1,6,9,11,17,19,22,25,29,39,41,43,47,46,48,51	170788	24	123153	145481	77940	31	57	2.64	34.90	126.85	342.60	7	423200	40.5	4	0	1
2412	1,6,9,11,17,19,22,25,29,39,41,43,47,46,48,52,53,54	167914	24	111572	142606	85175	29	56	2.76	35.30	126.85	333.91	6	392201	40.5	4	0	1
2413	1,6,9,11,17,19,22,25,29,39,41,43,47,49,53,54	159739	25	83373	134431	96640	29	52	3.13	35.71	129.43	303.81	6	368456	40.5	4	0	1
2414	1,6,9,11,17,19,22,25,29,39,41,43,50,54	158859	23	82741	133552	95760	29	53	2.76	37.62	130.51	297.22	5	365682	40.5	4	0	1
2415	1,6,9,11,17,19,22,25,29,39,44,55	150635	18	94108	132124	94333	28	48	2.64	36.78	129.90	293.07	5	361657	40.5	4	0	1
2416	1,6,9,11,17,19,22,25,29,39,45,55	165619	22	121428	139698	87717	33	53	3.04	41.13	149.95	312.33	5	417659	40.5	4	0	1
2417	1,6,9,11,17,21,27,26,30,32,46,47,50,54	168004	27	75896	139792	107049	37	56	2.48	43.71	94.00	380.87	5	377556	21	4	1	5
2418	1,6,9,11,17,21,27,26,30,32,46,49,53,54	167620	26	75264	139408	106665	35	55	2.84	41.80	90.84	385.27	6	375277	21	4	1	5
2419	1,6,9,11,17,21,27,26,30,32,48,51	163213	24	99587	135001	80362	37	58	2.35	40.99	88.27	371.42	5	407760	21	4	1	5
2420	1,6,9,11,17,21,27,26,30,32,48,52,53,54	160338	24	88006	132127	87596	35	57	2.48	41.39	88.27	362.73	4	376761	21	4	1	5
2421	1,6,9,11,17,21,27,26,31,34,35,37,40,41,44,55	151936	22	46858	139926	110625	32	45	2.77	38.44	78.70	358.98	5	279582	10	4	1	1
2422	1,6,9,11,17,21,27,26,31,34,35,37,40,41,45,55	166920	26	74177	147500	104009	37	50	3.18	42.79	98.75	378.24	5	335584	10	4	1	1
2423	1,6,9,11,17,21,27,26,31,34,35,37,40,43,47,46,48,51	158496	26	62308	153282	94233	35	50	2.77	36.56	75.66	389.83	7	301047	10	4	1	1
2424	1,6,9,11,17,21,27,26,31,34,35,37,40,43,47,46,48,52,53,54	155621	26	50728	150408	101467	33	49	2.89	36.96	75.66	381.14	6	270048	10	4	1	1
2425	1,6,9,11,17,21,27,26,31,34,35,37,40,43,47,49,53,54	147446	27	22528	142233	112932	33	45	3.26	37.37	78.23	351.04	6	246303	10	4	1	1
2426	1,6,9,11,17,21,27,26,31,34,35,37,40,43,50,54	146567	25	21897	141353	112053	33	46	2.89	39.28	79.31	344.44	5	243529	10	4	1	1
2427	1,6,9,11,17,21,27,26,31,34,35,37,42,46,48,51	157329	23	61101	152691	93641	33	50	2.77	36.56	74.84	388.83	7	296331	10	4	1	1
2428	1,6,9,11,17,21,27,26,31,34,35,37,42,46,48,52,53,54	154455	23	49521	149817	100876	31	49	2.89	36.96	74.84	380.14	6	265332	10	4	1	1
2429	1,6,9,11,17,21,27,26,31,34,35,37,42,47,50,54	146663	24	21953	142025	112725	33	46	2.89	39.28	80.58	345.06	5	243865	10	4	1	1
2430	1,6,9,11,17,21,27,26,31,34,35,37,42,49,53,54	146279	23	21322	141641	112341	31	45	3.26	37.37	77.42	350.04	6	241587	10	4	1	1
2431	1,6,9,11,17,21,27,26,31,34,36,39,41,40,42,46,48,51	169076	26	97761	154591	85324	33	53	2.87	36.46	123.68	359.74	7	362994	10	4	1	1
2432	1,6,9,11,17,21,27,26,31,34,36,39,41,40,42,46,48,52,53,54	166201	26	86181	151716	92558	31	52	3.00	36.86	123.68	351.05	6	331995	10	4	1	1
2433	1,6,9,11,17,21,27,26,31,34,36,39,41,40,42,47,50,54	158410	27	58613	143925	104407	33	49	3.00	39.18	129.42	315.96	5	310528	10	4	1	1
2434	1,6,9,11,17,21,27,26,31,34,36,39,41,40,42,49,53,54	158026	26	57982	143541	104023	31	48	3.36	37.27	126.26	320.95	6	308249	10	4	1	1
2435	1,6,9,11,17,21,27,26,31,34,36,39,41,43,47,46,48,51	169092	27	97818	155182	85915	33	53	2.87	36.46	124.50	359.88	7	363250	10	4	1	1
2436	1,6,9,11,17,21,27,26,31,34,36,39,41,43,47,46,48,52,53,54	166217	27	86237	152308	93149	31	52	3.00	36.86	124.50	351.19	6	332251	10	4	1	1
2437	1,6,9,11,17,21,27,26,31,34,36,39,41,43,47,49,53,54	158042	28	58038	144132	104614	31	48	3.36	37.27	127.07	321.09	6	308505	10	4	1	1
2438	1,6,9,11,17,21,27,26,31,34,36,39,41,43,50,54	157163	26	57406	143253	103735	31	49	3.00	39.18	128.15	314.49	5	305731	10	4	1	1
2439	1,6,9,11,17,21,27,26,31,34,36,39,44,55	148939	21	68773	141826	102308	30	44	2.87	38.34	127.54	310.35	5	301706	10	4	1	1
2440	1,6,9,11,17,21,27,26,31,34,36,39,45,55	163923	25	96093	149400	95691	35	49	3.28	42.69	147.59	329.60	5	357708	10	4	1	1
2441	1,6,9,11,17,21,27,26,31,34,38,40,42,46,48,51	157677	23	61064	152463	103300	34	50	3.03	37.62	75.13	387.75	7	296834	10	4	1	6
2442	1,6,9,11,17,21,27,26,31,34,38,40,42,46,48,52,53,54	154802	23	49483	149589	110534	32	49	3.15	38.02	75.13	379.06	6	265835	10	4	1	6
2443	1,6,9,11,17,21,27,26,31,34,38,40,42,47,50,54	147011	24	21915	141798	122383	34	46	3.15	40.34	80.87	343.98	5	244368	10	4	1	6
2444	1,6,9,11,17,21,27,26,31,34,38,40,42,49,53,54	146627	23	21284	141414	121999	32	45	3.52	38.43	77.71	348.96	6	242090	10	4	1	6
2445	1,6,9,11,17,21,27,26,31,34,38,41,44,55	151134	20	45669	139699	120284	31	45	3.03	39.50	78.99	356.89	5	275625	10	4	1	6
2446	1,6,9,11,17,21,27,26,31,34,38,41,45,55	166118	24	72989	147272	113667	36	50	3.43	43.85	99.05	376.15	5	331627	10	4	1	6
2447	1,6,9,11,17,21,27,26,31,34,38,43,47,46,48,51	157693	22	61120	153055	103891	34	50	3.03	37.62	75.95	387.89	7	297090	10	4	1	6
2448	1,6,9,11,17,21,27,26,31,34,38,43,47,46,48,52,53,54	154819	22	49540	150180	111125	32	49	3.15	38.02	75.95	379.20	6	266091	10	4	1	6

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
2449	1,6,9,11,17,21,27,26,31,34,38,43,47,49,53,54	146643	23	21340	142005	122590	32	45	3.52	38.43	78.52	349.10	6	242345	10	4	1	6
2450	1,6,9,11,17,21,27,26,31,34,38,43,50,54	145764	21	20709	141126	121711	32	46	3.15	40.34	79.60	342.51	5	239571	10	4	1	6
2451	1,6,9,11,17,21,27,26,33,37,40,41,44,55	151360	18	45831	139763	105809	32	46	2.77	37.45	79.13	357.55	5	278296	10	4	1	1
2452	1,6,9,11,17,21,27,26,33,37,40,41,45,55	166344	22	73151	147337	99192	37	51	3.18	41.80	99.18	376.81	5	334298	10	4	1	1
2453	1,6,9,11,17,21,27,26,33,37,40,43,47,46,48,51	157920	22	61282	153120	89416	35	51	2.77	35.57	76.08	388.40	7	299761	10	4	1	1
2454	1,6,9,11,17,21,27,26,33,37,40,43,47,46,48,52,53,54	155045	22	49702	150245	96650	33	50	2.89	35.97	76.08	379.71	6	268762	10	4	1	1
2455	1,6,9,11,17,21,27,26,33,37,40,43,47,49,53,54	146870	23	21502	142070	108115	33	46	3.26	36.38	78.65	349.61	6	245017	10	4	1	1
2456	1,6,9,11,17,21,27,26,33,37,40,43,50,54	145991	21	20871	141191	107236	33	47	2.89	38.29	79.74	343.01	5	242243	10	4	1	1
2457	1,6,9,11,17,21,27,26,33,37,42,46,48,51	156753	19	60075	152528	88825	33	51	2.77	35.57	75.27	387.40	7	295045	10	4	1	1
2458	1,6,9,11,17,21,27,26,33,37,42,46,48,52,53,54	153879	19	48495	149654	96059	31	50	2.89	35.97	75.27	378.71	6	264046	10	4	1	1
2459	1,6,9,11,17,21,27,26,33,37,42,47,50,54	146087	20	20927	141863	107908	33	47	2.89	38.29	81.00	343.63	5	242579	10	4	1	1
2460	1,6,9,11,17,21,27,26,33,37,42,49,53,54	145703	19	20295	141479	107524	31	46	3.26	36.38	77.84	348.61	6	240300	10	4	1	1
2461	1,6,9,11,17,21,28,31,30,32,46,47,50,54	167362	25	73623	139993	109815	37	56	2.48	42.55	100.05	373.89	5	371580	21	4	0	5
2462	1,6,9,11,17,21,28,31,30,32,46,49,53,54	166978	24	72991	139609	109431	35	55	2.84	40.64	96.89	378.29	6	369301	21	4	0	5
2463	1,6,9,11,17,21,28,31,30,32,48,51	162570	22	97314	135201	83128	37	58	2.35	39.83	94.32	364.44	5	401784	21	4	0	5
2464	1,6,9,11,17,21,28,31,30,32,48,52,53,54	159696	22	85733	132327	90362	35	57	2.48	40.23	94.32	355.75	4	370785	21	4	0	5
2465	1,6,9,11,17,21,28,31,33,37,40,41,44,55	150718	18	43558	139964	108575	32	46	2.77	36.29	85.18	350.52	5	272319	10	4	0	1
2466	1,6,9,11,17,21,28,31,33,37,40,41,45,55	165702	22	70878	147537	101959	37	51	3.18	40.64	105.23	369.77	5	328322	10	4	0	1
2467	1,6,9,11,17,21,28,31,33,37,40,43,47,46,48,51	157277	22	59009	153320	92182	35	51	2.77	34.41	82.13	381.36	7	293785	10	4	0	1
2468	1,6,9,11,17,21,28,31,33,37,40,43,47,46,48,52,53,54	154403	22	47429	150445	99416	33	50	2.89	34.81	82.13	372.67	6	262786	10	4	0	1
2469	1,6,9,11,17,21,28,31,33,37,40,43,47,49,53,54	146227	23	19229	142270	110881	33	46	3.26	35.22	84.70	342.57	6	239040	10	4	0	1
2470	1,6,9,11,17,21,28,31,33,37,40,43,50,54	145348	21	18598	141391	110002	33	47	2.89	37.13	85.78	335.97	5	236266	10	4	0	1
2471	1,6,9,11,17,21,28,31,33,37,42,46,48,51	156111	19	57802	152728	91591	33	51	2.77	34.41	81.32	380.36	7	289068	10	4	0	1
2472	1,6,9,11,17,21,28,31,33,37,42,46,48,52,53,54	153236	19	46222	149854	98825	31	50	2.89	34.81	81.32	371.67	6	258069	10	4	0	1
2473	1,6,9,11,17,21,28,31,33,37,42,47,50,54	145445	20	18654	142063	110674	33	47	2.89	37.13	87.05	336.59	5	236603	10	4	0	1
2474	1,6,9,11,17,21,28,31,33,37,42,49,53,54	145061	19	18022	141679	110290	31	46	3.26	35.22	83.89	341.57	6	234324	10	4	0	1
2475	1,6,9,11,17,21,28,34,35,37,40,41,44,55	150467	18	43758	140126	113392	32	45	2.77	37.28	84.13	349.83	5	269473	10	4	0	1
2476	1,6,9,11,17,21,28,34,35,37,40,41,45,55	165451	22	71077	147700	106775	37	50	3.18	41.63	104.18	369.08	5	325475	10	4	0	1
2477	1,6,9,11,17,21,28,34,35,37,40,43,47,46,48,51	157026	22	59208	153482	96999	35	50	2.77	35.40	81.09	380.67	7	290938	10	4	0	1
2478	1,6,9,11,17,21,28,34,35,37,40,43,47,46,48,52,53,54	154152	22	47628	150608	104233	33	49	2.89	35.80	81.09	371.98	6	259939	10	4	0	1
2479	1,6,9,11,17,21,28,34,35,37,40,43,47,49,53,54	145977	23	19429	142433	115698	33	45	3.26	36.21	83.66	341.88	6	236193	10	4	0	1
2480	1,6,9,11,17,21,28,34,35,37,40,43,50,54	145098	21	18797	141554	114819	33	46	2.89	38.12	84.74	335.29	5	233419	10	4	0	1
2481	1,6,9,11,17,21,28,34,35,37,42,46,48,51	155860	19	58002	152891	96408	33	50	2.77	35.40	80.27	379.67	7	286221	10	4	0	1
2482	1,6,9,11,17,21,28,34,35,37,42,46,48,52,53,54	152986	19	46422	150017	103642	31	49	2.89	35.80	80.27	370.98	6	255222	10	4	0	1
2483	1,6,9,11,17,21,28,34,35,37,42,47,50,54	145194	20	18854	142225	115491	33	46	2.89	38.12	86.01	335.90	5	233756	10	4	0	1
2484	1,6,9,11,17,21,28,34,35,37,42,49,53,54	144810	19	18222	141841	115107	31	45	3.26	36.21	82.85	340.88	6	231477	10	4	0	1
2485	1,6,9,11,17,21,28,34,36,39,41,40,42,46,48,51	167606	22	94662	154791	88090	33	53	2.87	35.30	129.11	350.58	7	352884	10	4	0	1
2486	1,6,9,11,17,21,28,34,36,39,41,40,42,46,48,52,53,54	164732	22	83081	151917	95324	31	52	3.00	35.70	129.11	341.89	6	321885	10	4	0	1
2487	1,6,9,11,17,21,28,34,36,39,41,40,42,47,50,54	156941	23	55513	144125	107173	33	49	3.00	38.02	134.85	306.81	5	300419	10	4	0	1
2488	1,6,9,11,17,21,28,34,36,39,41,40,42,49,53,54	156557	22	54882	143741	106789	31	48	3.36	36.11	131.69	311.79	6	298140	10	4	0	1
2489	1,6,9,11,17,21,28,34,36,39,41,43,47,46,48,51	167623	23	94718	155382	88681	33	53	2.87	35.30	129.93	350.72	7	353140	10	4	0	1
2490	1,6,9,11,17,21,28,34,36,39,41,43,47,46,48,52,53,54	164748	23	83138	152508	95915	31	52	3.00	35.70	129.93	342.03	6	322141	10	4	0	1
2491	1,6,9,11,17,21,28,34,36,39,41,43,47,49,53,54	156573	24	54938	144333	107380	31	48	3.36	36.11	132.50	311.93	6	298396	10	4	0	1
2492	1,6,9,11,17,21,28,34,36,39,41,43,50,54	155694	22	54307	143453	106501	31	49	3.00	38.02	133.58	305.34	5	295622	10	4	0	1
2493	1,6,9,11,17,21,28,34,36,39,44,55	147470	17	65674	142026	105074	30	44	2.87	37.18	132.97	301.19	5	291597	10	4	0	1
2494	1,6,9,11,17,21,28,34,36,39,45,55	162454	21	92993	149600	98458	35	49	3.28	41.53	153.02	320.45	5	347599	10	4	0	1
2495	1,6,9,11,17,21,28,34,38,40,42,46,48,51	156208	19	57964	152664	106066	34	50	3.03	36.46	80.57	378.59	7	286724	10	4	0	6
2496	1,6,9,11,17,21,28,34,38,40,42,46,48,52,53,54	153333	19	46384	149789	113300	32	49	3.15	36.86	80.57	369.90	6	255725	10	4	0	6
2497	1,6,9,11,17,21,28,34,38,40,42,47,50,54	145542	20	18816	141998	125149	34	46	3.15	39.18	86.30	334.82	5	234259	10	4	0	6
2498	1,6,9,11,17,21,28,34,38,40,42,49,53,54	145158	19	18184	141614	124765	32	45	3.52	37.27	83.14	339.80	6	231980	10	4	0	6
2499	1,6,9,11,17,21,28,34,38,41,44,55	149665	16	42570	139899	123050	31	45	3.03	38.34	84.42	347.74	5	265515	10	4	0	6

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
2500	1,6,9,11,17,21,28,34,38,41,45,55	164649	20	69889	147473	116434	36	50	3.43	42.69	104.48	366.99	5	321517	10	4	0	6
2501	1,6,9,11,17,21,28,34,38,43,47,46,48,51	156224	18	58020	153255	106657	34	50	3.03	36.46	81.38	378.73	7	286980	10	4	0	6
2502	1,6,9,11,17,21,28,34,38,43,47,46,48,52,53,54	153349	18	46440	150381	113892	32	49	3.15	36.86	81.38	370.04	6	255981	10	4	0	6
2503	1,6,9,11,17,21,28,34,38,43,47,49,53,54	145174	19	18241	142205	125357	32	45	3.52	37.27	83.95	339.94	6	232236	10	4	0	6
2504	1,6,9,11,17,21,28,34,38,43,50,54	144295	17	17609	141326	124477	32	46	3.15	39.18	85.03	333.35	5	229462	10	4	0	6
2505	2,4,3,6,10,12,14,30,31,34,35,37,40,41,44,55	164724	18	79876	150524	121700	32	49	2.21	34.96	120.73	356.78	5	326347	23.5	2	0	1
2506	2,4,3,6,10,12,14,30,31,34,35,37,40,41,45,55	179707	22	107196	158097	115084	37	54	2.61	39.31	140.78	376.04	5	382349	23.5	2	0	1
2507	2,4,3,6,10,12,14,30,31,34,35,37,40,43,47,46,48,51	171283	22	95327	163880	105307	35	54	2.21	33.08	117.68	387.63	7	347812	23.5	2	0	1
2508	2,4,3,6,10,12,14,30,31,34,35,37,40,43,47,46,48,52,53,54	168408	22	83747	161005	112541	33	53	2.33	33.48	117.68	378.93	6	316813	23.5	2	0	1
2509	2,4,3,6,10,12,14,30,31,34,35,37,40,43,47,49,53,54	160233	23	55547	152830	124007	33	49	2.70	33.89	120.26	348.84	6	293068	23.5	2	0	1
2510	2,4,3,6,10,12,14,30,31,34,35,37,40,43,50,54	159354	21	54916	151951	123127	33	50	2.33	35.80	121.34	342.24	5	290294	23.5	2	0	1
2511	2,4,3,6,10,12,14,30,31,34,35,37,42,46,48,51	170116	19	94120	163288	104716	33	54	2.21	33.08	116.87	386.63	7	343096	23.5	2	0	1
2512	2,4,3,6,10,12,14,30,31,34,35,37,42,46,48,52,53,54	167242	19	82540	160414	111950	31	53	2.33	33.48	116.87	377.93	6	312096	23.5	2	0	1
2513	2,4,3,6,10,12,14,30,31,34,35,37,42,47,50,54	159451	20	54972	152623	123799	33	50	2.33	35.80	122.60	342.85	5	290630	23.5	2	0	1
2514	2,4,3,6,10,12,14,30,31,34,35,37,42,49,53,54	159067	19	54341	152239	123415	31	49	2.70	33.89	119.44	347.84	6	288351	23.5	2	0	1
2515	2,4,3,6,10,12,14,30,31,34,36,39,41,40,42,46,48,51	181863	22	130780	165188	96398	33	57	2.31	32.98	165.71	357.53	7	409758	23.5	2	0	1
2516	2,4,3,6,10,12,14,30,31,34,36,39,41,40,42,46,48,52,53,54	178988	22	119200	162314	103632	31	56	2.43	33.38	165.71	348.84	6	378759	23.5	2	0	1
2517	2,4,3,6,10,12,14,30,31,34,36,39,41,40,42,47,50,54	171197	23	91632	154522	115482	33	53	2.43	35.70	171.44	313.76	5	357293	23.5	2	0	1
2518	2,4,3,6,10,12,14,30,31,34,36,39,41,40,42,49,53,54	170813	22	91000	154139	115098	31	52	2.80	33.79	168.28	318.74	6	355014	23.5	2	0	1
2519	2,4,3,6,10,12,14,30,31,34,36,39,41,43,47,46,48,51	181879	23	130837	165779	96990	33	57	2.31	32.98	166.52	357.68	7	410014	23.5	2	0	1
2520	2,4,3,6,10,12,14,30,31,34,36,39,41,43,47,46,48,52,53,54	179005	23	119256	162905	104224	31	56	2.43	33.38	166.52	348.98	6	379015	23.5	2	0	1
2521	2,4,3,6,10,12,14,30,31,34,36,39,41,43,47,49,53,54	170829	24	91057	154730	115689	31	52	2.80	33.79	169.10	318.89	6	355270	23.5	2	0	1
2522	2,4,3,6,10,12,14,30,31,34,36,39,41,43,50,54	169950	22	90425	153851	114810	31	53	2.43	35.70	170.18	312.29	5	352496	23.5	2	0	1
2523	2,4,3,6,10,12,14,30,31,34,36,39,44,55	161726	17	101792	152423	113382	30	48	2.31	34.86	169.57	308.14	5	348471	23.5	2	0	1
2524	2,4,3,6,10,12,14,30,31,34,36,39,45,55	176710	21	129112	159997	106766	35	53	2.71	39.21	189.62	327.40	5	404473	23.5	2	0	1
2525	2,4,3,6,10,12,14,30,31,34,38,40,42,46,48,51	170464	19	94082	163061	114375	34	54	2.47	34.14	117.16	385.54	7	343599	23.5	2	0	6
2526	2,4,3,6,10,12,14,30,31,34,38,40,42,46,48,52,53,54	167590	19	82502	160187	121609	32	53	2.59	34.54	117.16	376.85	6	312599	23.5	2	0	6
2527	2,4,3,6,10,12,14,30,31,34,38,40,42,47,50,54	159798	20	54934	152395	133458	34	50	2.59	36.86	122.90	341.77	5	291133	23.5	2	0	6
2528	2,4,3,6,10,12,14,30,31,34,38,40,42,49,53,54	159414	19	54303	152011	133074	32	49	2.96	34.95	119.74	346.75	6	288854	23.5	2	0	6
2529	2,4,3,6,10,12,14,30,31,34,38,41,44,55	163921	16	78688	150296	131359	31	49	2.47	36.02	121.02	354.69	5	322389	23.5	2	0	6
2530	2,4,3,6,10,12,14,30,31,34,38,41,45,55	178905	20	106008	157870	124742	36	54	2.87	40.37	141.07	373.95	5	378392	23.5	2	0	6
2531	2,4,3,6,10,12,14,30,31,34,38,43,47,46,48,51	170480	18	94139	163652	114966	34	54	2.47	34.14	117.98	385.69	7	343854	23.5	2	0	6
2532	2,4,3,6,10,12,14,30,31,34,38,43,47,46,48,52,53,54	167606	18	82559	160778	122200	32	53	2.59	34.54	117.98	377.00	6	312855	23.5	2	0	6
2533	2,4,3,6,10,12,14,30,31,34,38,43,47,49,53,54	159430	19	54359	152603	133665	32	49	2.96	34.95	120.55	346.90	6	289110	23.5	2	0	6
2534	2,4,3,6,10,12,14,30,31,34,38,43,50,54	158551	17	53728	151723	132786	32	50	2.59	36.86	121.63	340.30	5	286336	23.5	2	0	6
2535	2,4,3,6,10,12,14,30,33,37,40,41,44,55	164148	16	78850	150361	116883	32	50	2.21	33.97	121.15	355.30	5	325061	23.5	2	0	1
2536	2,4,3,6,10,12,14,30,33,37,40,41,45,55	179131	20	106170	157935	110267	37	55	2.61	38.32	141.21	374.55	5	381063	23.5	2	0	1
2537	2,4,3,6,10,12,14,30,33,37,40,43,47,46,48,51	170707	20	94301	163717	100491	35	55	2.21	32.09	118.11	386.14	7	346526	23.5	2	0	1
2538	2,4,3,6,10,12,14,30,33,37,40,43,47,46,48,52,53,54	167832	20	82721	160843	107725	33	54	2.33	32.49	118.11	377.45	6	315527	23.5	2	0	1
2539	2,4,3,6,10,12,14,30,33,37,40,43,47,49,53,54	159657	21	54521	152667	119190	33	50	2.70	32.90	120.68	347.35	6	291781	23.5	2	0	1
2540	2,4,3,6,10,12,14,30,33,37,40,43,50,54	158778	19	53889	151788	118311	33	51	2.33	34.81	121.76	340.76	5	289007	23.5	2	0	1
2541	2,4,3,6,10,12,14,30,33,37,42,46,48,51	169540	17	93094	163126	99899	33	55	2.21	32.09	117.30	385.14	7	341809	23.5	2	0	1
2542	2,4,3,6,10,12,14,30,33,37,42,46,48,52,53,54	166666	17	81514	160251	107133	31	54	2.33	32.49	117.30	376.45	6	310810	23.5	2	0	1
2543	2,4,3,6,10,12,14,30,33,37,42,47,50,54	158875	18	53946	152460	118983	33	51	2.33	34.81	123.03	341.37	5	289344	23.5	2	0	1
2544	2,4,3,6,10,12,14,30,33,37,42,49,53,54	158491	17	53314	152076	118599	31	50	2.70	32.90	119.87	346.35	6	287065	23.5	2	0	1
2545	2,4,3,6,10,12,14,32,46,47,50,54	173136	21	101259	150390	118124	35	58	1.91	40.23	136.03	353.70	5	386285	31.5	2	0	5
2546	2,4,3,6,10,12,14,32,46,49,53,54	172752	20	100628	150006	117740	33	57	2.28	38.32	132.87	358.10	6	384006	31.5	2	0	5
2547	2,4,3,6,10,12,14,32,48,51	168345	18	124950	145598	91437	35	60	1.79	37.51	130.29	344.25	5	416489	31.5	2	0	5
2548	2,4,3,6,10,12,14,32,48,52,53,54	165470	18	113370	142724	98671	33	59	1.91	37.91	130.29	335.56	4	385490	31.5	2	0	5
2549	2,4,3,6,10,13,17,18,20,23,26,30,32,46,47,50,54	168323	31	68854	140605	107384	34	53	2.02	44.57	106.29	367.11	5	355840	29.5	2	1	5
2550	2,4,3,6,10,13,17,18,20,23,26,30,32,46,49,53,54	167939	30	68222	140221	107000	32	52	2.39	42.66	103.13	371.50	6	353561	29.5	2	1	5

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
2551	2,4,3,6,10,13,17,18,20,23,26,30,32,48,51	163531	28	92544	135813	80697	34	55	1.89	41.85	100.56	357.66	5	386044	29.5	2	1	5
2552	2,4,3,6,10,13,17,18,20,23,26,30,32,48,52,53,54	160657	28	80964	132939	87932	32	54	2.02	42.25	100.56	348.97	4	355045	29.5	2	1	5
2553	2,4,3,6,10,13,17,18,20,23,26,31,34,35,37,40,41,44,55	152255	26	39815	140739	110961	29	42	2.31	39.29	90.99	345.22	5	257866	18.5	2	1	1
2554	2,4,3,6,10,13,17,18,20,23,26,31,34,35,37,40,41,45,55	167239	30	67135	148312	104344	34	47	2.72	43.64	111.05	364.48	5	313868	18.5	2	1	1
2555	2,4,3,6,10,13,17,18,20,23,26,31,34,35,37,40,43,47,46,48,51	158814	30	55266	154095	94568	32	47	2.31	37.41	87.95	376.06	7	279331	18.5	2	1	1
2556	2,4,3,6,10,13,17,18,20,23,26,31,34,35,37,40,43,47,46,48,52,53,54	155940	30	43686	151220	101802	30	46	2.44	37.81	87.95	367.37	6	248332	18.5	2	1	1
2557	2,4,3,6,10,13,17,18,20,23,26,31,34,35,37,40,43,47,49,53,54	147765	31	15486	143045	113267	30	42	2.80	38.22	90.52	337.27	6	224587	18.5	2	1	1
2558	2,4,3,6,10,13,17,18,20,23,26,31,34,35,37,40,43,50,54	146885	29	14855	142166	112388	30	43	2.44	40.13	91.60	330.68	5	221813	18.5	2	1	1
2559	2,4,3,6,10,13,17,18,20,23,26,31,34,35,37,42,46,48,51	157648	27	54059	153503	93977	30	47	2.31	37.41	87.14	375.06	7	274615	18.5	2	1	1
2560	2,4,3,6,10,13,17,18,20,23,26,31,34,35,37,42,46,48,52,53,54	154773	27	42479	150629	101211	28	46	2.44	37.81	87.14	366.37	6	243616	18.5	2	1	1
2561	2,4,3,6,10,13,17,18,20,23,26,31,34,35,37,42,47,50,54	146982	28	14911	142838	113060	30	43	2.44	40.13	92.87	331.29	5	222149	18.5	2	1	1
2562	2,4,3,6,10,13,17,18,20,23,26,31,34,35,37,42,49,53,54	146598	27	14279	142454	112676	28	42	2.80	38.22	89.71	336.27	6	219870	18.5	2	1	1
2563	2,4,3,6,10,13,17,18,20,23,26,31,34,36,39,41,40,42,46,48,51	169394	30	90719	155403	85659	30	50	2.41	37.31	135.98	345.97	7	341277	18.5	2	1	1
2564	2,4,3,6,10,13,17,18,20,23,26,31,34,36,39,41,40,42,46,48,52,53,54	166520	30	79139	152529	92893	28	49	2.54	37.71	135.98	337.28	6	310278	18.5	2	1	1
2565	2,4,3,6,10,13,17,18,20,23,26,31,34,36,39,41,40,42,47,50,54	158729	31	51571	144738	104742	30	46	2.54	40.03	141.71	302.20	5	288812	18.5	2	1	1
2566	2,4,3,6,10,13,17,18,20,23,26,31,34,36,39,41,40,42,49,53,54	158345	30	50939	144354	104358	28	45	2.91	38.12	138.55	307.18	6	286533	18.5	2	1	1
2567	2,4,3,6,10,13,17,18,20,23,26,31,34,36,39,41,43,47,46,48,51	169410	31	90775	155995	86250	30	50	2.41	37.31	136.79	346.11	7	341533	18.5	2	1	1
2568	2,4,3,6,10,13,17,18,20,23,26,31,34,36,39,41,43,47,46,48,52,53,54	166536	31	79195	153120	93485	28	49	2.54	37.71	136.79	337.42	6	310534	18.5	2	1	1
2569	2,4,3,6,10,13,17,18,20,23,26,31,34,36,39,41,43,47,49,53,54	158361	32	50996	144945	104950	28	45	2.91	38.12	139.36	307.32	6	286789	18.5	2	1	1
2570	2,4,3,6,10,13,17,18,20,23,26,31,34,36,39,41,43,50,54	157482	30	50364	144066	104070	28	46	2.54	40.03	140.44	300.73	5	284015	18.5	2	1	1
2571	2,4,3,6,10,13,17,18,20,23,26,31,34,36,39,44,55	149257	25	61731	142638	102643	27	41	2.41	39.20	139.83	296.58	5	279990	18.5	2	1	1
2572	2,4,3,6,10,13,17,18,20,23,26,31,34,36,39,45,55	164241	29	89051	150212	96027	32	46	2.82	43.54	159.89	315.84	5	335992	18.5	2	1	1
2573	2,4,3,6,10,13,17,18,20,23,26,31,34,38,40,42,46,48,51	157995	27	54021	153276	103635	31	47	2.57	38.47	87.43	373.98	7	275118	18.5	2	1	6
2574	2,4,3,6,10,13,17,18,20,23,26,31,34,38,40,42,46,48,52,53,54	155121	27	42441	150402	110869	29	46	2.70	38.87	87.43	365.29	6	244119	18.5	2	1	6
2575	2,4,3,6,10,13,17,18,20,23,26,31,34,38,40,42,47,50,54	147330	28	14873	142610	122718	31	43	2.70	41.19	93.16	330.21	5	222652	18.5	2	1	6
2576	2,4,3,6,10,13,17,18,20,23,26,31,34,38,40,42,49,53,54	146946	27	14242	142226	122334	29	42	3.06	39.28	90.00	335.19	6	220373	18.5	2	1	6
2577	2,4,3,6,10,13,17,18,20,23,26,31,34,38,41,44,55	151452	24	38627	140511	120619	28	42	2.57	40.36	91.29	343.13	5	253908	18.5	2	1	6
2578	2,4,3,6,10,13,17,18,20,23,26,31,34,38,41,45,55	166436	28	65947	148085	114003	33	47	2.98	44.70	111.34	362.38	5	309911	18.5	2	1	6
2579	2,4,3,6,10,13,17,18,20,23,26,31,34,38,43,47,46,48,51	158012	26	54078	153867	104227	31	47	2.57	38.47	88.24	374.13	7	275373	18.5	2	1	6
2580	2,4,3,6,10,13,17,18,20,23,26,31,34,38,43,47,46,48,52,53,54	155137	26	42498	150993	111461	29	46	2.70	38.87	88.24	365.44	6	244374	18.5	2	1	6
2581	2,4,3,6,10,13,17,18,20,23,26,31,34,38,43,47,49,53,54	146962	27	14298	142818	122926	29	42	3.06	39.28	90.81	335.34	6	220629	18.5	2	1	6
2582	2,4,3,6,10,13,17,18,20,23,26,31,34,38,43,50,54	146083	25	13667	141938	122046	29	43	2.70	41.19	91.90	328.74	5	217855	18.5	2	1	6
2583	2,4,3,6,10,13,17,18,20,23,26,33,37,40,41,44,55	151679	22	38789	140576	106144	29	43	2.31	38.30	91.42	343.79	5	256580	18.5	2	1	1
2584	2,4,3,6,10,13,17,18,20,23,26,33,37,40,41,45,55	166663	26	66109	148150	99528	34	48	2.72	42.65	111.47	363.05	5	312582	18.5	2	1	1
2585	2,4,3,6,10,13,17,18,20,23,26,33,37,40,43,47,46,48,51	158238	26	54240	153932	89751	32	48	2.31	36.42	88.38	374.63	7	278045	18.5	2	1	1
2586	2,4,3,6,10,13,17,18,20,23,26,33,37,40,43,47,46,48,52,53,54	155364	26	42660	151058	96986	30	47	2.44	36.82	88.38	365.94	6	247046	18.5	2	1	1
2587	2,4,3,6,10,13,17,18,20,23,26,33,37,40,43,47,49,53,54	147189	27	14460	142882	108451	30	43	2.80	37.23	90.95	335.84	6	223300	18.5	2	1	1
2588	2,4,3,6,10,13,17,18,20,23,26,33,37,40,43,50,54	146309	25	13828	142003	107571	30	44	2.44	39.14	92.03	329.25	5	220526	18.5	2	1	1
2589	2,4,3,6,10,13,17,18,20,23,26,33,37,42,46,48,51	157072	23	53033	153341	89160	30	48	2.31	36.42	87.56	373.63	7	273328	18.5	2	1	1
2590	2,4,3,6,10,13,17,18,20,23,26,33,37,42,46,48,52,53,54	154197	23	41453	150466	96394	28	47	2.44	36.82	87.56	364.94	6	242329	18.5	2	1	1
2591	2,4,3,6,10,13,17,18,20,23,26,33,37,42,47,50,54	146406	24	13885	142675	108243	30	44	2.44	39.14	93.30	329.86	5	220863	18.5	2	1	1
2592	2,4,3,6,10,13,17,18,20,23,26,33,37,42,49,53,54	146022	23	13253	142291	107859	28	43	2.80	37.23	90.13	334.84	6	218584	18.5	2	1	1
2593	2,4,3,6,10,13,17,18,20,23,27,28,31,30,32,46,47,50,54	168634	31	67534	140805	110151	34	53	2.02	43.40	115.44	360.12	5	353677	29.5	2	0	5
2594	2,4,3,6,10,13,17,18,20,23,27,28,31,30,32,46,49,53,54	168250	30	66902	140421	109767	32	52	2.39	41.49	112.28	364.52	6	351399	29.5	2	0	5
2595	2,4,3,6,10,13,17,18,20,23,27,28,31,30,32,48,51	163842	28	91225	136014	83464	34	55	1.89	40.68	109.70	350.68	5	383881	29.5	2	0	5
2596	2,4,3,6,10,13,17,18,20,23,27,28,31,30,32,48,52,53,54	160968	28	79645	133139	90698	32	54	2.02	41.09	109.70	341.99	4	352882	29.5	2	0	5
2597	2,4,3,6,10,13,17,18,20,23,27,28,31,33,37,40,41,44,55	151990	24	37470	140776	108910	29	43	2.31	37.14	100.56	336.75	5	254417	18.5	2	0	1
2598	2,4,3,6,10,13,17,18,20,23,27,28,31,33,37,40,41,45,55	166974	28	64789	148350	102294	34	48	2.72	41.49	120.62	356.01	5	310419	18.5	2	0	1
2599	2,4,3,6,10,13,17,18,20,23,27,28,31,33,37,40,43,47,46,48,51	158549	28	52920	154132	92518	32	48	2.31	35.26	97.52	367.59	7	275882	18.5	2	0	1
2600	2,4,3,6,10,13,17,18,20,23,27,28,31,33,37,40,43,47,46,48,52,53,54	155675	28	41340	151258	99752	30	47	2.44	35.66	97.52	358.90	6	244883	18.5	2	0	1
2601	2,4,3,6,10,13,17,18,20,23,27,28,31,33,37,40,43,47,49,53,54	147500	29	13140	143083	111217	30	43	2.80	36.07	100.09	328.80	6	221138	18.5	2	0	1

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
2602	2,4,3,6,10,13,17,18,20,23,27,28,31,33,37,40,43,50,54	146620	27	12509	142203	110338	30	44	2.44	37.98	101.17	322.21	5	218364	18.5	2	0	1
2603	2,4,3,6,10,13,17,18,20,23,27,28,31,33,37,42,46,48,51	157383	25	51713	153541	91926	30	48	2.31	35.26	96.71	366.59	7	271166	18.5	2	0	1
2604	2,4,3,6,10,13,17,18,20,23,27,28,31,33,37,42,46,48,52,53,54	154508	25	40133	150667	99160	28	47	2.44	35.66	96.71	357.90	6	240167	18.5	2	0	1
2605	2,4,3,6,10,13,17,18,20,23,27,28,31,33,37,42,47,50,54	146717	26	12565	142875	111009	30	44	2.44	37.98	102.44	322.82	5	218700	18.5	2	0	1
2606	2,4,3,6,10,13,17,18,20,23,27,28,31,33,37,42,49,53,54	146333	25	11934	142491	110625	28	43	2.80	36.07	99.28	327.80	6	216422	18.5	2	0	1
2607	2,4,3,6,10,13,17,18,20,23,27,28,34,35,37,40,41,44,55	151739	24	37669	140939	113727	29	42	2.31	38.13	99.52	336.06	5	251570	18.5	2	0	1
2608	2,4,3,6,10,13,17,18,20,23,27,28,34,35,37,40,41,45,55	166723	28	64989	148513	107111	34	47	2.72	42.48	119.57	355.32	5	307573	18.5	2	0	1
2609	2,4,3,6,10,13,17,18,20,23,27,28,34,35,37,40,43,47,46,48,51	158299	28	53120	154295	97334	32	47	2.31	36.25	96.48	366.91	7	273035	18.5	2	0	1
2610	2,4,3,6,10,13,17,18,20,23,27,28,34,35,37,40,43,47,46,48,52,53,54	155424	28	41540	151421	104568	30	46	2.44	36.65	96.48	358.21	6	242036	18.5	2	0	1
2611	2,4,3,6,10,13,17,18,20,23,27,28,34,35,37,40,43,47,49,53,54	147249	29	13340	143245	116033	30	42	2.80	37.06	99.05	328.11	6	218291	18.5	2	0	1
2612	2,4,3,6,10,13,17,18,20,23,27,28,34,35,37,40,43,50,54	146370	27	12709	142366	115154	30	43	2.44	38.97	100.13	321.52	5	215517	18.5	2	0	1
2613	2,4,3,6,10,13,17,18,20,23,27,28,34,35,37,42,46,48,51	157132	25	51913	153704	96743	30	47	2.31	36.25	95.66	365.90	7	268319	18.5	2	0	1
2614	2,4,3,6,10,13,17,18,20,23,27,28,34,35,37,42,46,48,52,53,54	154258	25	40333	150829	103977	28	46	2.44	36.65	95.66	357.21	6	237320	18.5	2	0	1
2615	2,4,3,6,10,13,17,18,20,23,27,28,34,35,37,42,47,50,54	146466	26	12765	143038	115826	30	43	2.44	38.97	101.40	322.13	5	215853	18.5	2	0	1
2616	2,4,3,6,10,13,17,18,20,23,27,28,34,35,37,42,49,53,54	146082	25	12133	142654	115442	28	42	2.80	37.06	98.24	327.11	6	213575	18.5	2	0	1
2617	2,4,3,6,10,13,17,18,20,23,27,28,34,36,39,41,40,42,46,48,51	168879	28	88573	155603	88425	30	50	2.41	36.15	144.50	336.81	7	334982	18.5	2	0	1
2618	2,4,3,6,10,13,17,18,20,23,27,28,34,36,39,41,40,42,46,48,52,53,54	166004	28	76993	152729	95659	28	49	2.54	36.55	144.50	328.12	6	303983	18.5	2	0	1
2619	2,4,3,6,10,13,17,18,20,23,27,28,34,36,39,41,40,42,47,50,54	158213	29	49425	144938	107508	30	46	2.54	38.87	150.24	293.04	5	282516	18.5	2	0	1
2620	2,4,3,6,10,13,17,18,20,23,27,28,34,36,39,41,40,42,49,53,54	157829	28	48793	144554	107124	28	45	2.91	36.96	147.08	298.02	6	280238	18.5	2	0	1
2621	2,4,3,6,10,13,17,18,20,23,27,28,34,36,39,41,43,47,46,48,51	168895	29	88629	156195	89017	30	50	2.41	36.15	145.32	336.95	7	335238	18.5	2	0	1
2622	2,4,3,6,10,13,17,18,20,23,27,28,34,36,39,41,43,47,46,48,52,53,54	166020	29	77049	153320	96251	28	49	2.54	36.55	145.32	328.26	6	304239	18.5	2	0	1
2623	2,4,3,6,10,13,17,18,20,23,27,28,34,36,39,41,43,47,49,53,54	157845	30	48850	145145	107716	28	45	2.91	36.96	147.89	298.16	6	280493	18.5	2	0	1
2624	2,4,3,6,10,13,17,18,20,23,27,28,34,36,39,41,43,50,54	156966	28	48218	144266	106837	28	46	2.54	38.87	148.97	291.57	5	277719	18.5	2	0	1
2625	2,4,3,6,10,13,17,18,20,23,27,28,34,36,39,44,55	148742	23	59585	142839	105409	27	41	2.41	38.03	148.36	287.42	5	273694	18.5	2	0	1
2626	2,4,3,6,10,13,17,18,20,23,27,28,34,36,39,45,55	163726	27	86905	150412	98793	32	46	2.82	42.38	168.41	306.68	5	329697	18.5	2	0	1
2627	2,4,3,6,10,13,17,18,20,23,27,28,34,38,40,42,46,48,51	157480	25	51875	153476	106401	31	47	2.57	37.31	95.95	364.82	7	268822	18.5	2	0	6
2628	2,4,3,6,10,13,17,18,20,23,27,28,34,38,40,42,46,48,52,53,54	154605	25	40295	150602	113636	29	46	2.70	37.71	95.95	356.13	6	237823	18.5	2	0	6
2629	2,4,3,6,10,13,17,18,20,23,27,28,34,38,40,42,47,50,54	146814	26	12727	142810	125485	31	43	2.70	40.03	101.69	321.05	5	216356	18.5	2	0	6
2630	2,4,3,6,10,13,17,18,20,23,27,28,34,38,40,42,49,53,54	146430	25	12096	142426	125101	29	42	3.06	38.12	98.53	326.03	6	214078	18.5	2	0	6
2631	2,4,3,6,10,13,17,18,20,23,27,28,34,38,41,44,55	150937	22	36481	140711	123385	28	42	2.57	39.19	99.81	333.97	5	247613	18.5	2	0	6
2632	2,4,3,6,10,13,17,18,20,23,27,28,34,38,41,45,55	165921	26	63801	148285	116769	33	47	2.98	43.54	119.86	353.23	5	303615	18.5	2	0	6
2633	2,4,3,6,10,13,17,18,20,23,27,28,34,38,43,47,46,48,51	157496	24	51932	154067	106993	31	47	2.57	37.31	96.77	364.97	7	269078	18.5	2	0	6
2634	2,4,3,6,10,13,17,18,20,23,27,28,34,38,43,47,46,48,52,53,54	154622	24	40352	151193	114227	29	46	2.70	37.71	96.77	356.28	6	238079	18.5	2	0	6
2635	2,4,3,6,10,13,17,18,20,23,27,28,34,38,43,47,49,53,54	146446	25	12152	143018	125692	29	42	3.06	38.12	99.34	326.18	6	214334	18.5	2	0	6
2636	2,4,3,6,10,13,17,18,20,23,27,28,34,38,43,50,54	145567	23	11520	142139	124813	29	43	2.70	40.03	100.42	319.58	5	211560	18.5	2	0	6
2637	2,4,3,6,10,13,17,19,22,24,29,36,35,37,40,41,44,55	165517	27	81264	137096	98966	31	47	1.58	37.41	96.50	355.95	5	374362	50	2	0	1
2638	2,4,3,6,10,13,17,19,22,24,29,36,35,37,40,41,45,55	180501	31	108583	144670	92350	36	52	1.98	41.76	116.55	375.21	5	430364	50	2	0	1
2639	2,4,3,6,10,13,17,19,22,24,29,36,35,37,40,43,47,46,48,51	172077	31	96714	150452	82574	34	52	1.58	35.53	93.46	386.79	7	395827	50	2	0	1
2640	2,4,3,6,10,13,17,19,22,24,29,36,35,37,40,43,47,46,48,52,53,54	169202	31	85134	147578	89808	32	51	1.70	35.93	93.46	378.10	6	364828	50	2	0	1
2641	2,4,3,6,10,13,17,19,22,24,29,36,35,37,40,43,47,49,53,54	161027	32	56935	139403	101273	32	47	2.07	36.34	96.03	348.00	6	341083	50	2	0	1
2642	2,4,3,6,10,13,17,19,22,24,29,36,35,37,40,43,50,54	160148	30	56303	138524	100393	32	48	1.70	38.25	97.11	341.41	5	338309	50	2	0	1
2643	2,4,3,6,10,13,17,19,22,24,29,36,35,37,42,46,48,51	170910	28	95508	149861	81982	32	52	1.58	35.53	92.64	385.79	7	391111	50	2	0	1
2644	2,4,3,6,10,13,17,19,22,24,29,36,35,37,42,46,48,52,53,54	168036	28	83928	146987	89216	30	51	1.70	35.93	92.64	377.10	6	360112	50	2	0	1
2645	2,4,3,6,10,13,17,19,22,24,29,36,35,37,42,47,50,54	160244	29	56360	139195	101065	32	48	1.70	38.25	98.38	342.02	5	338645	50	2	0	1
2646	2,4,3,6,10,13,17,19,22,24,29,36,35,37,42,49,53,54	159860	28	55728	138812	100681	30	47	2.07	36.34	95.22	347.00	6	336367	50	2	0	1
2647	2,4,3,6,10,13,17,19,22,24,29,36,38,40,42,46,48,51	171258	29	95470	149634	91641	33	52	1.83	36.59	92.94	384.68	7	391614	50	2	0	6
2648	2,4,3,6,10,13,17,19,22,24,29,36,38,40,42,46,48,52,53,54	168383	29	83890	146759	98875	31	51	1.96	36.99	92.94	375.99	6	360615	50	2	0	6
2649	2,4,3,6,10,13,17,19,22,24,29,36,38,40,42,47,50,54	160592	30	56322	138968	110724	33	48	1.96	39.31	98.67	340.91	5	339148	50	2	0	6
2650	2,4,3,6,10,13,17,19,22,24,29,36,38,40,42,49,53,54	160208	29	55690	138584	110340	31	47	2.33	37.40	95.51	345.89	6	336870	50	2	0	6
2651	2,4,3,6,10,13,17,19,22,24,29,36,38,41,44,55	164715	26	80076	136869	108625	30	47	1.83	38.48	96.79	353.83	5	370405	50	2	0	6
2652	2,4,3,6,10,13,17,19,22,24,29,36,38,41,45,55	179699	30	107395	144443	102008	35	52	2.24	42.82	116.85	373.09	5	426407	50	2	0	6

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
2653	2,4,3,6,10,13,17,19,22,24,29,36,38,43,47,46,48,51	171274	28	95526	150225	92232	33	52	1.83	36.59	93.75	384.83	7	391870	50	2	0	6
2654	2,4,3,6,10,13,17,19,22,24,29,36,38,43,47,46,48,52,53,54	168400	28	83946	147351	99466	31	51	1.96	36.99	93.75	376.14	6	360871	50	2	0	6
2655	2,4,3,6,10,13,17,19,22,24,29,36,38,43,47,49,53,54	160224	29	55747	139175	110931	31	47	2.33	37.40	96.32	346.04	6	337125	50	2	0	6
2656	2,4,3,6,10,13,17,19,22,24,29,36,38,43,50,54	159345	27	55115	138296	110052	31	48	1.96	39.31	97.40	339.44	5	334351	50	2	0	6
2657	2,4,3,6,10,13,17,19,22,24,29,39,41,40,42,46,48,51	173028	28	122539	147082	73665	30	55	1.68	35.43	125.64	350.10	7	422218	50	2	0	1
2658	2,4,3,6,10,13,17,19,22,24,29,39,41,40,42,46,48,52,53,54	170154	28	110959	144208	80899	28	54	1.80	35.83	125.64	341.41	6	391219	50	2	0	1
2659	2,4,3,6,10,13,17,19,22,24,29,39,41,40,42,47,50,54	162363	29	83391	136416	92748	30	51	1.80	38.15	131.37	306.33	5	369753	50	2	0	1
2660	2,4,3,6,10,13,17,19,22,24,29,39,41,40,42,49,53,54	161979	28	82760	136032	92364	28	50	2.17	36.24	128.21	311.31	6	367474	50	2	0	1
2661	2,4,3,6,10,13,17,19,22,24,29,39,41,43,47,46,48,51	173045	29	122596	147673	74256	30	55	1.68	35.43	126.45	350.24	7	422474	50	2	0	1
2662	2,4,3,6,10,13,17,19,22,24,29,39,41,43,47,46,48,52,53,54	170170	29	111016	144799	81490	28	54	1.80	35.83	126.45	341.55	6	391475	50	2	0	1
2663	2,4,3,6,10,13,17,19,22,24,29,39,41,43,47,49,53,54	161995	30	82816	136624	92955	28	50	2.17	36.24	129.02	311.45	6	367730	50	2	0	1
2664	2,4,3,6,10,13,17,19,22,24,29,39,41,43,50,54	161116	28	82185	135745	92076	28	51	1.80	38.15	130.10	304.85	5	364956	50	2	0	1
2665	2,4,3,6,10,13,17,19,22,24,29,39,44,55	152892	23	93552	134317	90649	27	46	1.68	37.32	129.49	300.71	5	360931	50	2	0	1
2666	2,4,3,6,10,13,17,19,22,24,29,39,45,55	167876	27	120871	141891	84032	32	51	2.08	41.66	149.55	319.96	5	416933	50	2	0	1
2667	2,4,3,6,10,13,17,19,22,25,29,36,35,37,40,41,44,55	163625	26	79372	133876	103446	31	48	1.59	35.97	98.23	345.98	5	370634	50.5	2	0	1
2668	2,4,3,6,10,13,17,19,22,25,29,36,35,37,40,41,45,55	178609	30	106691	141450	96830	36	53	2.00	40.32	118.28	365.24	5	426637	50.5	2	0	1
2669	2,4,3,6,10,13,17,19,22,25,29,36,35,37,40,43,47,46,48,51	170184	30	94822	147232	87053	34	53	1.59	34.09	95.18	376.83	7	392099	50.5	2	0	1
2670	2,4,3,6,10,13,17,19,22,25,29,36,35,37,40,43,47,46,48,52,53,54	167310	30	83242	144358	94287	32	52	1.72	34.49	95.18	368.14	6	361100	50.5	2	0	1
2671	2,4,3,6,10,13,17,19,22,25,29,36,35,37,40,43,47,49,53,54	159135	31	55042	136182	105752	32	48	2.08	34.90	97.75	338.04	6	337355	50.5	2	0	1
2672	2,4,3,6,10,13,17,19,22,25,29,36,35,37,40,43,50,54	158255	29	54411	135303	104873	32	49	1.72	36.81	98.83	331.44	5	334581	50.5	2	0	1
2673	2,4,3,6,10,13,17,19,22,25,29,36,35,37,42,46,48,51	169018	27	93615	146641	86462	32	53	1.59	34.09	94.37	375.83	7	387383	50.5	2	0	1
2674	2,4,3,6,10,13,17,19,22,25,29,36,35,37,42,46,48,52,53,54	166143	27	82035	143766	93696	30	52	1.72	34.49	94.37	367.14	6	356384	50.5	2	0	1
2675	2,4,3,6,10,13,17,19,22,25,29,36,35,37,42,47,50,54	158352	28	54467	135975	105545	32	49	1.72	36.81	100.10	332.06	5	334917	50.5	2	0	1
2676	2,4,3,6,10,13,17,19,22,25,29,36,35,37,42,49,53,54	157968	27	53836	135591	105161	30	48	2.08	34.90	96.94	337.04	6	332639	50.5	2	0	1
2677	2,4,3,6,10,13,17,19,22,25,29,36,38,40,42,46,48,51	169365	28	93578	146413	96120	33	53	1.85	35.15	94.66	374.72	7	387886	50.5	2	0	6
2678	2,4,3,6,10,13,17,19,22,25,29,36,38,40,42,46,48,52,53,54	166491	28	81997	143539	103355	31	52	1.98	35.55	94.66	366.03	6	356887	50.5	2	0	6
2679	2,4,3,6,10,13,17,19,22,25,29,36,38,40,42,47,50,54	158700	29	54429	135748	115204	33	49	1.98	37.87	100.39	330.95	5	335420	50.5	2	0	6
2680	2,4,3,6,10,13,17,19,22,25,29,36,38,40,42,49,53,54	158316	28	53798	135364	114820	31	48	2.34	35.96	97.23	335.93	6	333142	50.5	2	0	6
2681	2,4,3,6,10,13,17,19,22,25,29,36,38,41,44,55	162822	25	78183	133649	113105	30	48	1.85	37.03	98.52	343.86	5	366677	50.5	2	0	6
2682	2,4,3,6,10,13,17,19,22,25,29,36,38,41,45,55	177806	29	105503	141222	106488	35	53	2.26	41.38	118.57	363.12	5	422679	50.5	2	0	6
2683	2,4,3,6,10,13,17,19,22,25,29,36,38,43,47,46,48,51	169382	27	93634	147005	96712	33	53	1.85	35.15	95.47	374.86	7	388142	50.5	2	0	6
2684	2,4,3,6,10,13,17,19,22,25,29,36,38,43,47,46,48,52,53,54	166507	27	82054	144130	103946	31	52	1.98	35.55	95.47	366.17	6	357143	50.5	2	0	6
2685	2,4,3,6,10,13,17,19,22,25,29,36,38,43,47,49,53,54	158332	28	53854	135955	115411	31	48	2.34	35.96	98.05	336.07	6	333398	50.5	2	0	6
2686	2,4,3,6,10,13,17,19,22,25,29,36,38,43,50,54	157453	26	53223	135076	114532	31	49	1.98	37.87	99.13	329.48	5	330624	50.5	2	0	6
2687	2,4,3,6,10,13,17,19,22,25,29,39,41,40,42,46,48,51	171136	27	120647	143862	78144	30	56	1.69	33.99	127.36	340.13	7	418490	50.5	2	0	1
2688	2,4,3,6,10,13,17,19,22,25,29,39,41,40,42,46,48,52,53,54	168262	27	109067	140987	85378	28	55	1.82	34.39	127.36	331.44	6	387491	50.5	2	0	1
2689	2,4,3,6,10,13,17,19,22,25,29,39,41,40,42,47,50,54	160470	28	81499	133196	97227	30	52	1.82	36.71	133.09	296.36	5	366025	50.5	2	0	1
2690	2,4,3,6,10,13,17,19,22,25,29,39,41,40,42,49,53,54	160086	27	80867	132812	96843	28	51	2.18	34.80	129.93	301.34	6	363746	50.5	2	0	1
2691	2,4,3,6,10,13,17,19,22,25,29,39,41,43,47,46,48,51	171152	28	120704	144453	78736	30	56	1.69	33.99	128.17	340.28	7	418746	50.5	2	0	1
2692	2,4,3,6,10,13,17,19,22,25,29,39,41,43,47,46,48,52,53,54	168278	28	109123	141579	85970	28	55	1.82	34.39	128.17	331.58	6	387747	50.5	2	0	1
2693	2,4,3,6,10,13,17,19,22,25,29,39,41,43,47,49,53,54	160103	29	80924	133403	97435	28	51	2.18	34.80	130.75	301.49	6	364002	50.5	2	0	1
2694	2,4,3,6,10,13,17,19,22,25,29,39,41,43,50,54	159223	27	80292	132524	96556	28	52	1.82	36.71	131.83	294.89	5	361228	50.5	2	0	1
2695	2,4,3,6,10,13,17,19,22,25,29,39,44,55	150999	22	91659	131097	95128	27	47	1.69	35.87	131.22	290.74	5	357203	50.5	2	0	1
2696	2,4,3,6,10,13,17,19,22,25,29,39,45,55	165983	26	118979	138671	88512	32	52	2.10	40.22	151.27	310.00	5	413205	50.5	2	0	1
2697	2,4,3,6,10,13,17,21,27,26,30,32,46,47,50,54	168368	31	73447	138765	107844	36	55	1.53	42.80	95.32	378.54	5	373102	31	2	1	5
2698	2,4,3,6,10,13,17,21,27,26,30,32,46,49,53,54	167984	30	72815	138381	107460	34	54	1.90	40.90	92.16	382.94	6	370823	31	2	1	5
2699	2,4,3,6,10,13,17,21,27,26,30,32,48,51	163577	28	97138	133973	81157	36	57	1.41	40.08	89.59	369.10	5	403306	31	2	1	5
2700	2,4,3,6,10,13,17,21,27,26,30,32,48,52,53,54	160702	28	85557	131099	88391	34	56	1.53	40.49	89.59	360.40	4	372307	31	2	1	5
2701	2,4,3,6,10,13,17,21,27,26,31,34,35,37,40,41,44,55	152300	26	44409	138899	111421	31	44	1.83	37.53	80.02	356.66	5	275128	20	2	1	1
2702	2,4,3,6,10,13,17,21,27,26,31,34,35,37,40,41,45,55	167284	30	71728	146472	104804	36	49	2.23	41.88	100.07	375.91	5	331130	20	2	1	1
2703	2,4,3,6,10,13,17,21,27,26,31,34,35,37,40,43,47,46,48,51	158860	30	59859	152255	95028	34	49	1.83	35.65	76.98	387.50	7	296593	20	2	1	1

Table F-1: Route Data for All Routes

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
2704	2,4,3,6,10,13,17,21,27,26,31,34,35,37,40,43,47,46,48,52,53,54	155985	30	48279	149380	102262	32	48	1.95	36.05	76.98	378.81	6	265594	20	2	1	1
2705	2,4,3,6,10,13,17,21,27,26,31,34,35,37,40,43,47,49,53,54	147810	31	20079	141205	113727	32	44	2.32	36.46	79.55	348.71	6	241849	20	2	1	1
2706	2,4,3,6,10,13,17,21,27,26,31,34,35,37,40,43,50,54	146931	29	19448	140326	112848	32	45	1.95	38.37	80.63	342.11	5	239075	20	2	1	1
2707	2,4,3,6,10,13,17,21,27,26,31,34,35,37,42,46,48,51	157693	27	58652	151663	94437	32	49	1.83	35.65	76.16	386.50	7	291877	20	2	1	1
2708	2,4,3,6,10,13,17,21,27,26,31,34,35,37,42,46,48,52,53,54	154819	27	47072	148789	101671	30	48	1.95	36.05	76.16	377.81	6	260878	20	2	1	1
2709	2,4,3,6,10,13,17,21,27,26,31,34,35,37,42,47,50,54	147027	28	19504	140998	113520	32	45	1.95	38.37	81.90	342.73	5	239411	20	2	1	1
2710	2,4,3,6,10,13,17,21,27,26,31,34,35,37,42,49,53,54	146643	27	18873	140614	113136	30	44	2.32	36.46	78.73	347.71	6	237132	20	2	1	1
2711	2,4,3,6,10,13,17,21,27,26,31,34,36,39,41,40,42,46,48,51	169440	30	95312	153563	86119	32	52	1.93	35.55	125.00	357.41	7	358540	20	2	1	1
2712	2,4,3,6,10,13,17,21,27,26,31,34,36,39,41,40,42,46,48,52,53,54	166565	30	83732	150689	93353	30	51	2.05	35.95	125.00	348.72	6	327541	20	2	1	1
2713	2,4,3,6,10,13,17,21,27,26,31,34,36,39,41,40,42,47,50,54	158774	31	56164	142898	105202	32	48	2.05	38.27	130.74	313.64	5	306074	20	2	1	1
2714	2,4,3,6,10,13,17,21,27,26,31,34,36,39,41,40,42,49,53,54	158390	30	55533	142514	104818	30	47	2.42	36.36	127.57	318.62	6	303795	20	2	1	1
2715	2,4,3,6,10,13,17,21,27,26,31,34,36,39,41,43,47,46,48,51	169456	31	95369	154155	86710	32	52	1.93	35.55	125.82	357.55	7	358795	20	2	1	1
2716	2,4,3,6,10,13,17,21,27,26,31,34,36,39,41,43,47,46,48,52,53,54	166581	31	83788	151280	93944	30	51	2.05	35.95	125.82	348.86	6	327796	20	2	1	1
2717	2,4,3,6,10,13,17,21,27,26,31,34,36,39,41,43,47,49,53,54	158406	32	55589	143105	105409	30	47	2.42	36.36	128.39	318.76	6	304051	20	2	1	1
2718	2,4,3,6,10,13,17,21,27,26,31,34,36,39,41,43,50,54	157527	30	54957	142226	104530	30	48	2.05	38.27	129.47	312.16	5	301277	20	2	1	1
2719	2,4,3,6,10,13,17,21,27,26,31,34,36,39,44,55	149303	25	66324	140798	103103	29	43	1.93	37.43	128.86	308.02	5	297252	20	2	1	1
2720	2,4,3,6,10,13,17,21,27,26,31,34,36,39,45,55	164287	29	93644	148372	96487	34	48	2.33	41.78	148.91	327.27	5	353254	20	2	1	1
2721	2,4,3,6,10,13,17,21,27,26,31,34,38,40,42,46,48,51	158041	27	58615	151436	104095	33	49	2.09	36.71	76.45	385.42	7	292380	20	2	1	6
2722	2,4,3,6,10,13,17,21,27,26,31,34,38,40,42,46,48,52,53,54	155166	27	47034	148562	111329	31	48	2.21	37.11	76.45	376.73	6	261381	20	2	1	6
2723	2,4,3,6,10,13,17,21,27,26,31,34,38,40,42,47,50,54	147375	28	19466	140770	123178	33	45	2.21	39.43	82.19	341.65	5	239914	20	2	1	6
2724	2,4,3,6,10,13,17,21,27,26,31,34,38,40,42,49,53,54	146991	27	18835	140386	122794	31	44	2.58	37.52	79.03	346.63	6	237635	20	2	1	6
2725	2,4,3,6,10,13,17,21,27,26,31,34,38,41,44,55	151498	24	43220	138671	121079	30	44	2.09	38.59	80.31	354.56	5	271170	20	2	1	6
2726	2,4,3,6,10,13,17,21,27,26,31,34,38,41,45,55	166482	28	70540	146245	114463	35	49	2.49	42.94	100.36	373.82	5	327173	20	2	1	6
2727	2,4,3,6,10,13,17,21,27,26,31,34,38,43,47,46,48,51	158057	26	58671	152027	104686	33	49	2.09	36.71	77.27	385.56	7	292636	20	2	1	6
2728	2,4,3,6,10,13,17,21,27,26,31,34,38,43,47,46,48,52,53,54	155183	26	47091	149153	111920	31	48	2.21	37.11	77.27	376.87	6	261636	20	2	1	6
2729	2,4,3,6,10,13,17,21,27,26,31,34,38,43,47,49,53,54	147007	27	18891	140978	123386	31	44	2.58	37.52	79.84	346.77	6	237891	20	2	1	6
2730	2,4,3,6,10,13,17,21,27,26,31,34,38,43,50,54	146128	25	18260	140098	122506	31	45	2.21	39.43	80.92	340.18	5	235117	20	2	1	6
2731	2,4,3,6,10,13,17,21,27,26,33,37,40,41,44,55	151724	22	43382	138736	106604	31	45	1.83	36.54	80.45	355.23	5	273842	20	2	1	1
2732	2,4,3,6,10,13,17,21,27,26,33,37,40,41,45,55	166708	26	70702	146310	99988	36	50	2.23	40.89	100.50	374.48	5	329844	20	2	1	1
2733	2,4,3,6,10,13,17,21,27,26,33,37,40,43,47,46,48,51	158284	26	58833	152092	90211	34	50	1.83	34.66	77.40	386.07	7	295307	20	2	1	1
2734	2,4,3,6,10,13,17,21,27,26,33,37,40,43,47,46,48,52,53,54	155409	26	47253	149218	97445	32	49	1.95	35.06	77.40	377.38	6	264308	20	2	1	1
2735	2,4,3,6,10,13,17,21,27,26,33,37,40,43,47,49,53,54	147234	27	19053	141042	108910	32	45	2.32	35.47	79.97	347.28	6	240563	20	2	1	1
2736	2,4,3,6,10,13,17,21,27,26,33,37,40,43,50,54	146355	25	18422	140163	108031	32	46	1.95	37.38	81.05	340.68	5	237789	20	2	1	1
2737	2,4,3,6,10,13,17,21,27,26,33,37,42,46,48,51	157117	23	57626	151501	89620	32	50	1.83	34.66	76.59	385.07	7	290591	20	2	1	1
2738	2,4,3,6,10,13,17,21,27,26,33,37,42,46,48,52,53,54	154243	23	46046	148626	96854	30	49	1.95	35.06	76.59	376.38	6	259591	20	2	1	1
2739	2,4,3,6,10,13,17,21,27,26,33,37,42,47,50,54	146451	24	18478	140835	108703	32	46	1.95	37.38	82.32	341.30	5	238125	20	2	1	1
2740	2,4,3,6,10,13,17,21,27,26,33,37,42,49,53,54	146067	23	17846	140451	108319	30	45	2.32	35.47	79.16	346.28	6	235846	20	2	1	1
2741	2,4,3,6,10,13,17,21,28,31,30,32,46,47,50,54	167726	29	71174	138965	110610	36	55	1.53	41.64	101.37	371.56	5	367125	31	2	0	5
2742	2,4,3,6,10,13,17,21,28,31,30,32,46,49,53,54	167342	28	70542	138581	110226	34	54	1.90	39.73	98.21	375.96	6	364847	31	2	0	5
2743	2,4,3,6,10,13,17,21,28,31,30,32,48,51	162934	26	94865	134174	83923	36	57	1.41	38.92	95.63	362.11	5	397329	31	2	0	5
2744	2,4,3,6,10,13,17,21,28,31,30,32,48,52,53,54	160060	26	83284	131299	91158	34	56	1.53	39.32	95.63	353.42	4	366330	31	2	0	5
2745	2,4,3,6,10,13,17,21,28,31,33,37,40,41,44,55	151082	22	41109	138936	109370	31	45	1.83	35.38	86.49	348.19	5	267865	20	2	0	1
2746	2,4,3,6,10,13,17,21,28,31,33,37,40,41,45,55	166066	26	68429	146510	102754	36	50	2.23	39.73	106.55	367.44	5	323868	20	2	0	1
2747	2,4,3,6,10,13,17,21,28,31,33,37,40,43,47,46,48,51	157641	26	56560	152292	92977	34	50	1.83	33.50	83.45	379.03	7	289330	20	2	0	1
2748	2,4,3,6,10,13,17,21,28,31,33,37,40,43,47,46,48,52,53,54	154767	26	44980	149418	100212	32	49	1.95	33.90	83.45	370.34	6	258331	20	2	0	1
2749	2,4,3,6,10,13,17,21,28,31,33,37,40,43,47,49,53,54	146591	27	16780	141243	111677	32	45	2.32	34.31	86.02	340.24	6	234586	20	2	0	1
2750	2,4,3,6,10,13,17,21,28,31,33,37,40,43,50,54	145712	25	16149	140363	110797	32	46	1.95	36.22	87.10	333.65	5	231812	20	2	0	1
2751	2,4,3,6,10,13,17,21,28,31,33,37,42,46,48,51	156475	23	55353	151701	92386	32	50	1.83	33.50	82.64	378.03	7	284614	20	2	0	1
2752	2,4,3,6,10,13,17,21,28,31,33,37,42,46,48,52,53,54	153600	23	43773	148827	99620	30	49	1.95	33.90	82.64	369.34	6	253615	20	2	0	1
2753	2,4,3,6,10,13,17,21,28,31,33,37,42,47,50,54	145809	24	16205	141035	111469	32	46	1.95	36.22	88.37	334.26	5	232148	20	2	0	1
2754	2,4,3,6,10,13,17,21,28,31,33,37,42,49,53,54	145425	23	15573	140651	111085	30	45	2.32	34.31	85.21	339.24	6	229870	20	2	0	1

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
2755	2,4,3,6,10,13,17,21,28,34,35,37,40,41,44,55	150831	22	41309	139099	114187	31	44	1.83	36.37	85.45	347.50	5	265018	20	2	0	1
2756	2,4,3,6,10,13,17,21,28,34,35,37,40,41,45,55	165815	26	68628	146673	107570	36	49	2.23	40.72	105.50	366.76	5	321021	20	2	0	1
2757	2,4,3,6,10,13,17,21,28,34,35,37,40,43,47,46,48,51	157391	26	56759	152455	97794	34	49	1.83	34.49	82.41	378.34	7	286484	20	2	0	1
2758	2,4,3,6,10,13,17,21,28,34,35,37,40,43,47,46,48,52,53,54	154516	26	45179	149581	105028	32	48	1.95	34.89	82.41	369.65	6	255485	20	2	0	1
2759	2,4,3,6,10,13,17,21,28,34,35,37,40,43,47,49,53,54	146341	27	16980	141405	116493	32	44	2.32	35.30	84.98	339.55	6	231739	20	2	0	1
2760	2,4,3,6,10,13,17,21,28,34,35,37,40,43,50,54	145462	25	16348	140526	115614	32	45	1.95	37.21	86.06	332.96	5	228965	20	2	0	1
2761	2,4,3,6,10,13,17,21,28,34,35,37,42,46,48,51	156224	23	55553	151864	97203	32	49	1.83	34.49	81.59	377.34	7	281767	20	2	0	1
2762	2,4,3,6,10,13,17,21,28,34,35,37,42,46,48,52,53,54	153350	23	43973	148989	104437	30	48	1.95	34.89	81.59	368.65	6	250768	20	2	0	1
2763	2,4,3,6,10,13,17,21,28,34,35,37,42,47,50,54	145558	24	16405	141198	116286	32	45	1.95	37.21	87.33	333.57	5	229302	20	2	0	1
2764	2,4,3,6,10,13,17,21,28,34,35,37,42,49,53,54	145174	23	15773	140814	115902	30	44	2.32	35.30	84.17	338.55	6	227023	20	2	0	1
2765	2,4,3,6,10,13,17,21,28,34,36,39,41,40,42,46,48,51	167971	26	92213	153763	88885	32	52	1.93	34.39	130.43	348.25	7	348430	20	2	0	1
2766	2,4,3,6,10,13,17,21,28,34,36,39,41,40,42,46,48,52,53,54	165096	26	80632	150889	96119	30	51	2.05	34.79	130.43	339.56	6	317431	20	2	0	1
2767	2,4,3,6,10,13,17,21,28,34,36,39,41,40,42,47,50,54	157305	27	53065	143098	107968	32	48	2.05	37.11	136.17	304.48	5	295964	20	2	0	1
2768	2,4,3,6,10,13,17,21,28,34,36,39,41,40,42,49,53,54	156921	26	52433	142714	107584	30	47	2.42	35.20	133.01	309.46	6	293686	20	2	0	1
2769	2,4,3,6,10,13,17,21,28,34,36,39,41,43,47,46,48,51	167987	27	92269	154355	89476	32	52	1.93	34.39	131.25	348.39	7	348686	20	2	0	1
2770	2,4,3,6,10,13,17,21,28,34,36,39,41,43,47,46,48,52,53,54	165112	27	80689	151480	96711	30	51	2.05	34.79	131.25	339.70	6	317687	20	2	0	1
2771	2,4,3,6,10,13,17,21,28,34,36,39,41,43,47,49,53,54	156937	28	52489	143305	108176	30	47	2.42	35.20	133.82	309.60	6	293942	20	2	0	1
2772	2,4,3,6,10,13,17,21,28,34,36,39,41,43,50,54	156058	26	51858	142426	107296	30	48	2.05	37.11	134.90	303.01	5	291168	20	2	0	1
2773	2,4,3,6,10,13,17,21,28,34,36,39,44,55	147834	21	63225	140999	105869	29	43	1.93	36.27	134.29	298.86	5	287143	20	2	0	1
2774	2,4,3,6,10,13,17,21,28,34,36,39,45,55	162818	25	90544	148572	99253	34	48	2.33	40.62	154.34	318.12	5	343145	20	2	0	1
2775	2,4,3,6,10,13,17,21,28,34,38,40,42,46,48,51	156572	23	55515	151636	106861	33	49	2.09	35.55	81.89	376.26	7	282270	20	2	0	6
2776	2,4,3,6,10,13,17,21,28,34,38,40,42,46,48,52,53,54	153697	23	43935	148762	114095	31	48	2.21	35.95	81.89	367.57	6	251271	20	2	0	6
2777	2,4,3,6,10,13,17,21,28,34,38,40,42,47,50,54	145906	24	16367	140970	125944	33	45	2.21	38.27	87.62	332.49	5	229805	20	2	0	6
2778	2,4,3,6,10,13,17,21,28,34,38,40,42,49,53,54	145522	23	15735	140586	125560	31	44	2.58	36.36	84.46	337.47	6	227526	20	2	0	6
2779	2,4,3,6,10,13,17,21,28,34,38,41,44,55	150029	20	40121	138871	123845	30	44	2.09	37.43	85.74	345.41	5	261061	20	2	0	6
2780	2,4,3,6,10,13,17,21,28,34,38,41,45,55	165013	24	67440	146445	117229	35	49	2.49	41.78	105.80	364.66	5	317063	20	2	0	6
2781	2,4,3,6,10,13,17,21,28,34,38,43,47,46,48,51	156588	22	55571	152227	107453	33	49	2.09	35.55	82.70	376.41	7	282526	20	2	0	6
2782	2,4,3,6,10,13,17,21,28,34,38,43,47,46,48,52,53,54	153714	22	43991	149353	114687	31	48	2.21	35.95	82.70	367.71	6	251527	20	2	0	6
2783	2,4,3,6,10,13,17,21,28,34,38,43,47,49,53,54	145538	23	15792	141178	126152	31	44	2.58	36.36	85.27	337.62	6	227782	20	2	0	6
2784	2,4,3,6,10,13,17,21,28,34,38,43,50,54	144659	21	15160	140299	125273	31	45	2.21	38.27	86.35	331.02	5	225008	20	2	0	6
2785	2,4,3,6,10,15,23,26,30,32,46,47,50,54	167697	29	74572	134687	106989	34	52	2.07	43.81	106.30	360.38	5	370203	28	2	1	5
2786	2,4,3,6,10,15,23,26,30,32,46,49,53,54	167313	28	73940	134303	106605	32	51	2.44	41.90	103.14	364.78	6	367924	28	2	1	5
2787	2,4,3,6,10,15,23,26,30,32,48,51	162906	26	98263	129895	80302	34	54	1.94	41.09	100.57	350.94	5	400407	28	2	1	5
2788	2,4,3,6,10,15,23,26,30,32,48,52,53,54	160031	26	86682	127021	87536	32	53	2.07	41.49	100.57	342.25	4	369408	28	2	1	5
2789	2,4,3,6,10,15,23,26,31,34,35,37,40,41,44,55	151629	24	45534	134821	110565	29	41	2.36	38.54	91.00	338.50	5	272229	17	2	1	1
2790	2,4,3,6,10,15,23,26,31,34,35,37,40,41,45,55	166613	28	72853	142394	103949	34	46	2.77	42.89	111.06	357.75	5	328231	17	2	1	1
2791	2,4,3,6,10,15,23,26,31,34,35,37,40,43,47,46,48,51	158188	28	60984	148177	94172	32	46	2.36	36.65	87.96	369.34	7	293694	17	2	1	1
2792	2,4,3,6,10,15,23,26,31,34,35,37,40,43,47,46,48,52,53,54	155314	28	49404	145302	101406	30	45	2.49	37.06	87.96	360.65	6	262695	17	2	1	1
2793	2,4,3,6,10,15,23,26,31,34,35,37,40,43,47,49,53,54	147139	29	21204	137127	112871	30	41	2.85	37.46	90.53	330.55	6	238950	17	2	1	1
2794	2,4,3,6,10,15,23,26,31,34,35,37,40,43,50,54	146260	27	20573	136248	111992	30	42	2.49	39.37	91.61	323.96	5	236176	17	2	1	1
2795	2,4,3,6,10,15,23,26,31,34,35,37,42,46,48,51	157022	25	59777	147585	93581	30	46	2.36	36.65	87.15	368.34	7	288978	17	2	1	1
2796	2,4,3,6,10,15,23,26,31,34,35,37,42,46,48,52,53,54	154148	25	48197	144711	100815	28	45	2.49	37.06	87.15	359.65	6	257979	17	2	1	1
2797	2,4,3,6,10,15,23,26,31,34,35,37,42,47,50,54	146356	26	20629	136920	112664	30	42	2.49	39.37	92.88	324.57	5	236512	17	2	1	1
2798	2,4,3,6,10,15,23,26,31,34,35,37,42,49,53,54	145972	25	19998	136536	112280	28	41	2.85	37.46	89.72	329.55	6	234233	17	2	1	1
2799	2,4,3,6,10,15,23,26,31,34,36,39,41,40,42,46,48,51	168768	28	96437	149485	85263	30	49	2.46	36.56	135.99	339.25	7	355641	17	2	1	1
2800	2,4,3,6,10,15,23,26,31,34,36,39,41,40,42,46,48,52,53,54	165894	28	84857	146611	92497	28	48	2.59	36.96	135.99	330.56	6	324642	17	2	1	1
2801	2,4,3,6,10,15,23,26,31,34,36,39,41,40,42,47,50,54	158103	29	57289	138820	104346	30	45	2.59	39.28	141.72	295.48	5	303175	17	2	1	1
2802	2,4,3,6,10,15,23,26,31,34,36,39,41,40,42,49,53,54	157719	28	56658	138436	103962	28	44	2.96	37.37	138.56	300.46	6	300896	17	2	1	1
2803	2,4,3,6,10,15,23,26,31,34,36,39,41,43,47,46,48,51	168785	29	96494	150077	85855	30	49	2.46	36.56	136.80	339.39	7	355896	17	2	1	1
2804	2,4,3,6,10,15,23,26,31,34,36,39,41,43,47,46,48,52,53,54	165910	29	84913	147202	93089	28	48	2.59	36.96	136.80	330.70	6	324897	17	2	1	1
2805	2,4,3,6,10,15,23,26,31,34,36,39,41,43,47,49,53,54	157735	30	56714	139027	104554	28	44	2.96	37.37	139.37	300.60	6	301152	17	2	1	1

Table F-1: Route Data for All Routes

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
2806	2,4,3,6,10,15,23,26,31,34,36,39,41,43,50,54	156856	28	56082	138148	103674	28	45	2.59	39.28	140.45	294.01	5	298378	17	2	1	1
2807	2,4,3,6,10,15,23,26,31,34,36,39,44,55	148632	23	67449	136720	102247	27	40	2.46	38.44	139.84	289.86	5	294353	17	2	1	1
2808	2,4,3,6,10,15,23,26,31,34,36,39,45,55	163616	27	94769	144294	95631	32	45	2.87	42.79	159.90	309.12	5	350355	17	2	1	1
2809	2,4,3,6,10,15,23,26,31,34,38,40,42,46,48,51	157370	25	59740	147358	103239	31	46	2.62	37.72	87.44	367.26	7	289481	17	2	1	6
2810	2,4,3,6,10,15,23,26,31,34,38,40,42,46,48,52,53,54	154495	25	48159	144484	110473	29	45	2.75	38.12	87.44	358.57	6	258482	17	2	1	6
2811	2,4,3,6,10,15,23,26,31,34,38,40,42,47,50,54	146704	26	20591	136692	122323	31	42	2.75	40.44	93.17	323.49	5	237015	17	2	1	6
2812	2,4,3,6,10,15,23,26,31,34,38,40,42,49,53,54	146320	25	19960	136308	121939	29	41	3.11	38.53	90.01	328.47	6	234736	17	2	1	6
2813	2,4,3,6,10,15,23,26,31,34,38,41,44,55	150827	22	44345	134593	120223	28	41	2.62	39.60	91.29	336.41	5	268271	17	2	1	6
2814	2,4,3,6,10,15,23,26,31,34,38,41,45,55	165811	26	71665	142167	113607	33	46	3.03	43.95	111.35	355.66	5	324274	17	2	1	6
2815	2,4,3,6,10,15,23,26,31,34,38,43,47,46,48,51	157386	24	59796	147949	103831	31	46	2.62	37.72	88.25	367.40	7	289737	17	2	1	6
2816	2,4,3,6,10,15,23,26,31,34,38,43,47,46,48,52,53,54	154511	24	48216	145075	111065	29	45	2.75	38.12	88.25	358.71	6	258738	17	2	1	6
2817	2,4,3,6,10,15,23,26,31,34,38,43,47,49,53,54	146336	25	20016	136900	122530	29	41	3.11	38.53	90.82	328.61	6	234992	17	2	1	6
2818	2,4,3,6,10,15,23,26,31,34,38,43,50,54	145457	23	19385	136020	121651	29	42	2.75	40.44	91.90	322.02	5	232218	17	2	1	6
2819	2,4,3,6,10,15,23,26,33,37,40,41,44,55	151053	20	44507	134658	105748	29	42	2.36	37.55	91.43	337.07	5	270943	17	2	1	1
2820	2,4,3,6,10,15,23,26,33,37,40,41,45,55	166037	24	71827	142232	99132	34	47	2.77	41.89	111.48	356.32	5	326945	17	2	1	1
2821	2,4,3,6,10,15,23,26,33,37,40,43,47,46,48,51	157612	24	59958	148014	89356	32	47	2.36	35.66	88.38	367.91	7	292408	17	2	1	1
2822	2,4,3,6,10,15,23,26,33,37,40,43,47,46,48,52,53,54	154738	24	48378	145140	96590	30	46	2.49	36.06	88.38	359.22	6	261409	17	2	1	1
2823	2,4,3,6,10,15,23,26,33,37,40,43,47,49,53,54	146563	25	20178	136964	108055	30	42	2.85	36.47	90.96	329.12	6	237664	17	2	1	1
2824	2,4,3,6,10,15,23,26,33,37,40,43,50,54	145684	23	19547	136085	107175	30	43	2.49	38.38	92.04	322.53	5	234890	17	2	1	1
2825	2,4,3,6,10,15,23,26,33,37,42,46,48,51	156446	21	58751	147423	88764	30	47	2.36	35.66	87.57	366.91	7	287692	17	2	1	1
2826	2,4,3,6,10,15,23,26,33,37,42,46,48,52,53,54	153572	21	47171	144548	95998	28	46	2.49	36.06	87.57	358.22	6	256693	17	2	1	1
2827	2,4,3,6,10,15,23,26,33,37,42,47,50,54	145780	22	19603	136757	107847	30	43	2.49	38.38	93.30	323.14	5	235226	17	2	1	1
2828	2,4,3,6,10,15,23,26,33,37,42,49,53,54	145396	21	18971	136373	107463	28	42	2.85	36.47	90.14	328.12	6	232947	17	2	1	1
2829	2,4,3,6,10,15,23,27,28,31,30,32,46,47,50,54	168008	29	73252	134887	109755	34	52	2.07	42.65	115.45	353.40	5	368040	28	2	0	5
2830	2,4,3,6,10,15,23,27,28,31,30,32,46,49,53,54	167624	28	72621	134503	109371	32	51	2.44	40.74	112.28	357.80	6	365762	28	2	0	5
2831	2,4,3,6,10,15,23,27,28,31,30,32,48,51	163217	26	96943	130096	83068	34	54	1.94	39.93	109.71	343.95	5	398244	28	2	0	5
2832	2,4,3,6,10,15,23,27,28,31,30,32,48,52,53,54	160342	26	85363	127221	90302	32	53	2.07	40.33	109.71	335.26	4	367245	28	2	0	5
2833	2,4,3,6,10,15,23,27,28,31,33,37,40,41,44,55	151364	22	43188	134858	108514	29	42	2.36	36.38	100.57	330.03	5	268780	17	2	0	1
2834	2,4,3,6,10,15,23,27,28,31,33,37,40,41,45,55	166348	26	70507	142432	101898	34	47	2.77	40.73	120.62	349.29	5	324783	17	2	0	1
2835	2,4,3,6,10,15,23,27,28,31,33,37,40,43,47,46,48,51	157923	26	58638	148214	92122	32	47	2.36	34.50	97.53	360.87	7	290245	17	2	0	1
2836	2,4,3,6,10,15,23,27,28,31,33,37,40,43,47,46,48,52,53,54	155049	26	47058	145340	99356	30	46	2.49	34.90	97.53	352.18	6	259246	17	2	0	1
2837	2,4,3,6,10,15,23,27,28,31,33,37,40,43,47,49,53,54	146874	27	18859	137165	110821	30	42	2.85	35.31	100.10	322.08	6	235501	17	2	0	1
2838	2,4,3,6,10,15,23,27,28,31,33,37,40,43,50,54	145995	25	18227	136285	109942	30	43	2.49	37.22	101.18	315.49	5	232727	17	2	0	1
2839	2,4,3,6,10,15,23,27,28,31,33,37,42,46,48,51	156757	23	57432	147623	91530	30	47	2.36	34.50	96.71	359.87	7	285529	17	2	0	1
2840	2,4,3,6,10,15,23,27,28,31,33,37,42,46,48,52,53,54	153883	23	45851	144749	98765	28	46	2.49	34.90	96.71	351.18	6	254530	17	2	0	1
2841	2,4,3,6,10,15,23,27,28,31,33,37,42,47,50,54	146091	24	18283	136957	110614	30	43	2.49	37.22	102.45	316.10	5	233063	17	2	0	1
2842	2,4,3,6,10,15,23,27,28,31,33,37,42,49,53,54	145707	23	17652	136573	110230	28	42	2.85	35.31	99.29	321.08	6	230785	17	2	0	1
2843	2,4,3,6,10,15,23,27,28,34,35,37,40,41,44,55	151114	22	43387	135021	113331	29	41	2.36	37.37	99.53	329.34	5	265933	17	2	0	1
2844	2,4,3,6,10,15,23,27,28,34,35,37,40,41,45,55	166098	26	70707	142595	106715	34	46	2.77	41.72	119.58	348.60	5	321936	17	2	0	1
2845	2,4,3,6,10,15,23,27,28,34,35,37,40,43,47,46,48,51	157673	26	58838	148377	96938	32	46	2.36	35.49	96.48	360.18	7	287399	17	2	0	1
2846	2,4,3,6,10,15,23,27,28,34,35,37,40,43,47,46,48,52,53,54	154799	26	47258	145503	104173	30	45	2.49	35.89	96.48	351.49	6	256400	17	2	0	1
2847	2,4,3,6,10,15,23,27,28,34,35,37,40,43,47,49,53,54	146623	27	19058	137327	115638	30	41	2.85	36.30	99.06	321.39	6	232654	17	2	0	1
2848	2,4,3,6,10,15,23,27,28,34,35,37,40,43,50,54	145744	25	18427	136448	114758	30	42	2.49	38.21	100.14	314.80	5	229880	17	2	0	1
2849	2,4,3,6,10,15,23,27,28,34,35,37,42,46,48,51	156506	23	57631	147786	96347	30	46	2.36	35.49	95.67	359.18	7	282682	17	2	0	1
2850	2,4,3,6,10,15,23,27,28,34,35,37,42,46,48,52,53,54	153632	23	46051	144911	103581	28	45	2.49	35.89	95.67	350.49	6	251683	17	2	0	1
2851	2,4,3,6,10,15,23,27,28,34,35,37,42,47,50,54	145841	24	18483	137120	115430	30	42	2.49	38.21	101.40	315.41	5	230217	17	2	0	1
2852	2,4,3,6,10,15,23,27,28,34,35,37,42,49,53,54	145457	23	17851	136736	115046	28	41	2.85	36.30	98.24	320.39	6	227938	17	2	0	1
2853	2,4,3,6,10,15,23,27,28,34,36,39,41,40,42,46,48,51	168253	26	94291	149685	88029	30	49	2.46	35.39	144.51	330.09	7	349345	17	2	0	1
2854	2,4,3,6,10,15,23,27,28,34,36,39,41,40,42,46,48,52,53,54	165379	26	82711	146811	95264	28	48	2.59	35.79	144.51	321.40	6	318346	17	2	0	1
2855	2,4,3,6,10,15,23,27,28,34,36,39,41,40,42,47,50,54	157587	27	55143	139020	107113	30	45	2.59	38.11	150.24	286.32	5	296880	17	2	0	1
2856	2,4,3,6,10,15,23,27,28,34,36,39,41,40,42,49,53,54	157203	26	54511	138636	106729	28	44	2.96	36.20	147.08	291.30	6	294601	17	2	0	1

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
2857	2,4,3,6,10,15,23,27,28,34,36,39,41,43,47,46,48,51	168269	27	94348	150277	88621	30	49	2.46	35.39	145.32	330.23	7	349601	17	2	0	1
2858	2,4,3,6,10,15,23,27,28,34,36,39,41,43,47,46,48,52,53,54	165395	27	82767	147402	95855	28	48	2.59	35.79	145.32	321.54	6	318602	17	2	0	1
2859	2,4,3,6,10,15,23,27,28,34,36,39,41,43,47,49,53,54	157219	28	54568	139227	107320	28	44	2.96	36.20	147.90	291.44	6	294857	17	2	0	1
2860	2,4,3,6,10,15,23,27,28,34,36,39,41,43,50,54	156340	26	53936	138348	106441	28	45	2.59	38.11	148.98	284.85	5	292083	17	2	0	1
2861	2,4,3,6,10,15,23,27,28,34,36,39,44,55	148116	21	65303	136921	105013	27	40	2.46	37.28	148.37	280.70	5	288058	17	2	0	1
2862	2,4,3,6,10,15,23,27,28,34,36,39,45,55	163100	25	92623	144494	98397	32	45	2.87	41.62	168.42	299.96	5	344060	17	2	0	1
2863	2,4,3,6,10,15,23,27,28,34,38,40,42,46,48,51	156854	23	57593	147558	106006	31	46	2.62	36.55	95.96	358.10	7	283185	17	2	0	6
2864	2,4,3,6,10,15,23,27,28,34,38,40,42,46,48,52,53,54	153980	23	46013	144684	113240	29	45	2.75	36.96	95.96	349.41	6	252186	17	2	0	6
2865	2,4,3,6,10,15,23,27,28,34,38,40,42,47,50,54	146188	24	18445	136892	125089	31	42	2.75	39.27	101.70	314.33	5	230720	17	2	0	6
2866	2,4,3,6,10,15,23,27,28,34,38,40,42,49,53,54	145804	23	17814	136508	124705	29	41	3.11	37.37	98.54	319.31	6	228441	17	2	0	6
2867	2,4,3,6,10,15,23,27,28,34,38,41,44,55	150311	20	42199	134793	122990	28	41	2.62	38.44	99.82	327.25	5	261976	17	2	0	6
2868	2,4,3,6,10,15,23,27,28,34,38,41,45,55	165295	24	69519	142367	116373	33	46	3.03	42.79	119.87	346.50	5	317978	17	2	0	6
2869	2,4,3,6,10,15,23,27,28,34,38,43,47,46,48,51	156870	22	57650	148149	106597	31	46	2.62	36.55	96.78	358.25	7	283441	17	2	0	6
2870	2,4,3,6,10,15,23,27,28,34,38,43,47,46,48,52,53,54	153996	22	46070	145275	113831	29	45	2.75	36.96	96.78	349.56	6	252442	17	2	0	6
2871	2,4,3,6,10,15,23,27,28,34,38,43,47,49,53,54	145821	23	17870	137100	125296	29	41	3.11	37.37	99.35	319.46	6	228697	17	2	0	6
2872	2,4,3,6,10,15,23,27,28,34,38,43,50,54	144941	21	17239	136221	124417	29	42	2.75	39.27	100.43	312.86	5	225923	17	2	0	6
2873	2,4,3,6,10,16,18,19,22,24,29,36,35,37,40,41,44,55	165583	25	81329	136798	102278	31	46	1.58	37.41	96.50	355.38	5	374864	59.5	2	0	1
2874	2,4,3,6,10,16,18,19,22,24,29,36,35,37,40,41,45,55	180567	29	108648	144371	95661	36	51	1.98	41.76	116.55	374.64	5	430867	59.5	2	0	1
2875	2,4,3,6,10,16,18,19,22,24,29,36,35,37,40,43,47,46,48,51	172143	29	96779	150154	85885	34	51	1.58	35.53	93.46	386.23	7	396330	59.5	2	0	1
2876	2,4,3,6,10,16,18,19,22,24,29,36,35,37,40,43,47,46,48,52,53,54	169268	29	85199	147279	93119	32	50	1.70	35.93	93.46	377.54	6	365331	59.5	2	0	1
2877	2,4,3,6,10,16,18,19,22,24,29,36,35,37,40,43,47,49,53,54	161093	30	57000	139104	104584	32	46	2.07	36.34	96.03	347.44	6	341585	59.5	2	0	1
2878	2,4,3,6,10,16,18,19,22,24,29,36,35,37,40,43,50,54	160214	28	56368	138225	103705	32	47	1.70	38.25	97.11	340.84	5	338811	59.5	2	0	1
2879	2,4,3,6,10,16,18,19,22,24,29,36,35,37,42,46,48,51	170976	26	95573	149562	85293	32	51	1.58	35.53	92.64	385.23	7	391613	59.5	2	0	1
2880	2,4,3,6,10,16,18,19,22,24,29,36,35,37,42,46,48,52,53,54	168102	26	83992	146688	92528	30	50	1.70	35.93	92.64	376.54	6	360614	59.5	2	0	1
2881	2,4,3,6,10,16,18,19,22,24,29,36,35,37,42,47,50,54	160310	27	56424	138897	104377	32	47	1.70	38.25	98.38	341.45	5	339148	59.5	2	0	1
2882	2,4,3,6,10,16,18,19,22,24,29,36,35,37,42,49,53,54	159926	26	55793	138513	103993	30	46	2.07	36.34	95.22	346.44	6	336869	59.5	2	0	1
2883	2,4,3,6,10,16,18,19,22,24,29,36,38,40,42,46,48,51	171324	27	95535	149335	94952	33	51	1.83	36.59	92.94	384.12	7	392116	59.5	2	0	6
2884	2,4,3,6,10,16,18,19,22,24,29,36,38,40,42,46,48,52,53,54	168449	27	83955	146460	102186	31	50	1.96	36.99	92.94	375.43	6	361117	59.5	2	0	6
2885	2,4,3,6,10,16,18,19,22,24,29,36,38,40,42,47,50,54	160658	28	56387	138669	114035	33	47	1.96	39.31	98.67	340.35	5	339651	59.5	2	0	6
2886	2,4,3,6,10,16,18,19,22,24,29,36,38,40,42,49,53,54	160274	27	55755	138285	113651	31	46	2.33	37.40	95.51	345.33	6	337372	59.5	2	0	6
2887	2,4,3,6,10,16,18,19,22,24,29,36,38,41,44,55	164781	24	80141	136570	111936	30	46	1.83	38.48	96.79	353.26	5	370907	59.5	2	0	6
2888	2,4,3,6,10,16,18,19,22,24,29,36,38,41,45,55	179765	28	107460	144144	105320	35	51	2.24	42.82	116.85	372.52	5	426909	59.5	2	0	6
2889	2,4,3,6,10,16,18,19,22,24,29,36,38,43,47,46,48,51	171340	26	95591	149926	95543	33	51	1.83	36.59	93.75	384.26	7	392372	59.5	2	0	6
2890	2,4,3,6,10,16,18,19,22,24,29,36,38,43,47,46,48,52,53,54	168466	26	84011	147052	102777	31	50	1.96	36.99	93.75	375.57	6	361373	59.5	2	0	6
2891	2,4,3,6,10,16,18,19,22,24,29,36,38,43,47,49,53,54	160290	27	55811	138877	114242	31	46	2.33	37.40	96.32	345.47	6	337628	59.5	2	0	6
2892	2,4,3,6,10,16,18,19,22,24,29,36,38,43,50,54	159411	25	55180	137997	113363	31	47	1.96	39.31	97.40	338.88	5	334854	59.5	2	0	6
2893	2,4,3,6,10,16,18,19,22,24,29,39,41,40,42,46,48,51	173094	26	122604	146783	76976	30	54	1.68	35.43	125.64	349.53	7	422721	59.5	2	0	1
2894	2,4,3,6,10,16,18,19,22,24,29,39,41,40,42,46,48,52,53,54	170220	26	111024	143909	84210	28	53	1.80	35.83	125.64	340.84	6	391722	59.5	2	0	1
2895	2,4,3,6,10,16,18,19,22,24,29,39,41,40,42,47,50,54	162429	27	83456	136118	96059	30	50	1.80	38.15	131.37	305.76	5	370255	59.5	2	0	1
2896	2,4,3,6,10,16,18,19,22,24,29,39,41,40,42,49,53,54	162045	26	82825	135734	95675	28	49	2.17	36.24	128.21	310.74	6	367976	59.5	2	0	1
2897	2,4,3,6,10,16,18,19,22,24,29,39,41,43,47,46,48,51	173111	27	122661	147375	77567	30	54	1.68	35.43	126.45	349.67	7	422976	59.5	2	0	1
2898	2,4,3,6,10,16,18,19,22,24,29,39,41,43,47,46,48,52,53,54	170236	27	111081	144500	84801	28	53	1.80	35.83	126.45	340.98	6	391977	59.5	2	0	1
2899	2,4,3,6,10,16,18,19,22,24,29,39,41,43,47,49,53,54	162061	28	82881	136325	96266	28	49	2.17	36.24	129.02	310.88	6	368232	59.5	2	0	1
2900	2,4,3,6,10,16,18,19,22,24,29,39,41,43,50,54	161182	26	82249	135446	95387	28	50	1.80	38.15	130.10	304.29	5	365458	59.5	2	0	1
2901	2,4,3,6,10,16,18,19,22,24,29,39,44,55	152958	21	93616	134019	93960	27	45	1.68	37.32	129.49	300.14	5	361433	59.5	2	0	1
2902	2,4,3,6,10,16,18,19,22,24,29,39,45,55	167942	25	120936	141592	87343	32	50	2.08	41.66	149.55	319.40	5	417435	59.5	2	0	1
2903	2,4,3,6,10,16,18,19,22,25,29,36,35,37,40,41,44,55	163691	24	79436	133577	106757	31	47	1.59	35.97	98.23	345.42	5	371137	60	2	0	1
2904	2,4,3,6,10,16,18,19,22,25,29,36,35,37,40,41,45,55	178675	28	106756	141151	100141	36	52	2.00	40.32	118.28	364.68	5	427139	60	2	0	1
2905	2,4,3,6,10,16,18,19,22,25,29,36,35,37,40,43,47,46,48,51	170250	28	94887	146933	90365	34	52	1.59	34.09	95.18	376.26	7	392602	60	2	0	1
2906	2,4,3,6,10,16,18,19,22,25,29,36,35,37,40,43,47,46,48,52,53,54	167376	28	83307	144059	97599	32	51	1.72	34.49	95.18	367.57	6	361603	60	2	0	1
2907	2,4,3,6,10,16,18,19,22,25,29,36,35,37,40,43,47,49,53,54	159201	29	55107	135884	109064	32	47	2.08	34.90	97.75	337.47	6	337857	60	2	0	1

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
2908	2,4,3,6,10,16,18,19,22,25,29,36,35,37,40,43,50,54	158321	27	54476	135004	108185	32	48	1.72	36.81	98.83	330.88	5	335083	60	2	0	1
2909	2,4,3,6,10,16,18,19,22,25,29,36,35,37,42,46,48,51	169084	25	93680	146342	89773	32	52	1.59	34.09	94.37	375.26	7	387885	60	2	0	1
2910	2,4,3,6,10,16,18,19,22,25,29,36,35,37,42,46,48,52,53,54	166209	25	82100	143468	97007	30	51	1.72	34.49	94.37	366.57	6	356886	60	2	0	1
2911	2,4,3,6,10,16,18,19,22,25,29,36,35,37,42,47,50,54	158418	26	54532	135676	108856	32	48	1.72	36.81	100.10	331.49	5	335420	60	2	0	1
2912	2,4,3,6,10,16,18,19,22,25,29,36,35,37,42,49,53,54	158034	25	53900	135292	108472	30	47	2.08	34.90	96.94	336.47	6	333141	60	2	0	1
2913	2,4,3,6,10,16,18,19,22,25,29,36,38,40,42,46,48,51	169431	26	93642	146114	99432	33	52	1.85	35.15	94.66	374.15	7	388388	60	2	0	6
2914	2,4,3,6,10,16,18,19,22,25,29,36,38,40,42,46,48,52,53,54	166557	26	82062	143240	106666	31	51	1.98	35.55	94.66	365.46	6	357389	60	2	0	6
2915	2,4,3,6,10,16,18,19,22,25,29,36,38,40,42,47,50,54	158766	27	54494	135449	118515	33	48	1.98	37.87	100.39	330.38	5	335923	60	2	0	6
2916	2,4,3,6,10,16,18,19,22,25,29,36,38,40,42,49,53,54	158382	26	53863	135065	118131	31	47	2.34	35.96	97.23	335.36	6	333644	60	2	0	6
2917	2,4,3,6,10,16,18,19,22,25,29,36,38,41,44,55	162888	23	78248	133350	116416	30	47	1.85	37.03	98.52	343.30	5	367179	60	2	0	6
2918	2,4,3,6,10,16,18,19,22,25,29,36,38,41,45,55	177872	27	105568	140923	109799	35	52	2.26	41.38	118.57	362.56	5	423181	60	2	0	6
2919	2,4,3,6,10,16,18,19,22,25,29,36,38,43,47,46,48,51	169448	25	93699	146706	100023	33	52	1.85	35.15	95.47	374.30	7	388644	60	2	0	6
2920	2,4,3,6,10,16,18,19,22,25,29,36,38,43,47,46,48,52,53,54	166573	25	82119	143831	107257	31	51	1.98	35.55	95.47	365.61	6	357645	60	2	0	6
2921	2,4,3,6,10,16,18,19,22,25,29,36,38,43,47,49,53,54	158398	26	53919	135656	118722	31	47	2.34	35.96	98.05	335.51	6	333900	60	2	0	6
2922	2,4,3,6,10,16,18,19,22,25,29,36,38,43,50,54	157519	24	53288	134777	117843	31	48	1.98	37.87	99.13	328.91	5	331126	60	2	0	6
2923	2,4,3,6,10,16,18,19,22,25,29,39,41,40,42,46,48,51	171202	25	120712	143563	81456	30	55	1.69	33.99	127.36	339.57	7	418993	60	2	0	1
2924	2,4,3,6,10,16,18,19,22,25,29,39,41,40,42,46,48,52,53,54	168328	25	109132	140689	88690	28	54	1.82	34.39	127.36	330.88	6	387994	60	2	0	1
2925	2,4,3,6,10,16,18,19,22,25,29,39,41,40,42,47,50,54	160536	26	81564	132897	100539	30	51	1.82	36.71	133.09	295.80	5	366527	60	2	0	1
2926	2,4,3,6,10,16,18,19,22,25,29,39,41,40,42,49,53,54	160152	25	80932	132513	100155	28	50	2.18	34.80	129.93	300.78	6	364248	60	2	0	1
2927	2,4,3,6,10,16,18,19,22,25,29,39,41,43,47,46,48,51	171218	26	120768	144154	82047	30	55	1.69	33.99	128.17	339.71	7	419249	60	2	0	1
2928	2,4,3,6,10,16,18,19,22,25,29,39,41,43,47,46,48,52,53,54	168344	26	109188	141280	89281	28	54	1.82	34.39	128.17	331.02	6	388250	60	2	0	1
2929	2,4,3,6,10,16,18,19,22,25,29,39,41,43,47,49,53,54	160169	27	80989	133105	100746	28	50	2.18	34.80	130.75	300.92	6	364504	60	2	0	1
2930	2,4,3,6,10,16,18,19,22,25,29,39,41,43,50,54	159289	25	80357	132225	99867	28	51	1.82	36.71	131.83	294.33	5	361730	60	2	0	1
2931	2,4,3,6,10,16,18,19,22,25,29,39,44,55	151065	20	91724	130798	98440	27	46	1.69	35.87	131.22	290.18	5	357705	60	2	0	1
2932	2,4,3,6,10,16,18,19,22,25,29,39,45,55	166049	24	119044	138372	91823	32	51	2.10	40.22	151.27	309.44	5	413708	60	2	0	1
2933	2,4,3,6,10,16,18,21,27,26,30,32,46,47,50,54	168434	31	73512	138466	111155	36	54	1.53	42.80	95.32	377.94	5	373604	40.5	2	1	5
2934	2,4,3,6,10,16,18,21,27,26,30,32,46,49,53,54	168050	30	72880	138082	110772	34	53	1.90	40.90	92.16	382.34	6	371326	40.5	2	1	5
2935	2,4,3,6,10,16,18,21,27,26,30,32,48,51	163643	28	97202	133675	84469	36	56	1.41	40.08	89.59	368.50	5	403808	40.5	2	1	5
2936	2,4,3,6,10,16,18,21,27,26,30,32,48,52,53,54	160768	28	85622	130800	91703	34	55	1.53	40.49	89.59	359.81	4	372809	40.5	2	1	5
2937	2,4,3,6,10,16,18,21,27,26,31,34,35,37,40,41,44,55	152366	26	44473	138600	114732	31	43	1.83	37.53	80.02	356.06	5	275630	29.5	2	1	1
2938	2,4,3,6,10,16,18,21,27,26,31,34,35,37,40,41,45,55	167350	30	71793	146174	108115	36	48	2.23	41.88	100.07	375.31	5	331633	29.5	2	1	1
2939	2,4,3,6,10,16,18,21,27,26,31,34,35,37,40,43,47,46,48,51	158926	30	59924	151956	98339	34	48	1.83	35.65	76.98	386.90	7	297095	29.5	2	1	1
2940	2,4,3,6,10,16,18,21,27,26,31,34,35,37,40,43,47,46,48,52,53,54	156051	30	48344	149081	105573	32	47	1.95	36.05	76.98	378.21	6	266096	29.5	2	1	1
2941	2,4,3,6,10,16,18,21,27,26,31,34,35,37,40,43,47,49,53,54	147876	31	20144	140906	117038	32	43	2.32	36.46	79.55	348.11	6	242351	29.5	2	1	1
2942	2,4,3,6,10,16,18,21,27,26,31,34,35,37,40,43,50,54	146997	29	19513	140027	116159	32	44	1.95	38.37	80.63	341.52	5	239577	29.5	2	1	1
2943	2,4,3,6,10,16,18,21,27,26,31,34,35,37,42,46,48,51	157759	27	58717	151365	97748	32	48	1.83	35.65	76.16	385.90	7	292379	29.5	2	1	1
2944	2,4,3,6,10,16,18,21,27,26,31,34,35,37,42,46,48,52,53,54	154885	27	47137	148490	104982	30	47	1.95	36.05	76.16	377.21	6	261380	29.5	2	1	1
2945	2,4,3,6,10,16,18,21,27,26,31,34,35,37,42,47,50,54	147093	28	19569	140699	116831	32	44	1.95	38.37	81.90	342.13	5	239913	29.5	2	1	1
2946	2,4,3,6,10,16,18,21,27,26,31,34,35,37,42,49,53,54	146709	27	18937	140315	116447	30	43	2.32	36.46	78.73	347.11	6	237635	29.5	2	1	1
2947	2,4,3,6,10,16,18,21,27,26,31,34,36,39,41,40,42,46,48,51	169506	30	95377	153264	89430	32	51	1.93	35.55	125.00	356.81	7	359042	29.5	2	1	1
2948	2,4,3,6,10,16,18,21,27,26,31,34,36,39,41,40,42,46,48,52,53,54	166631	30	83797	150390	96664	30	50	2.05	35.95	125.00	348.12	6	328043	29.5	2	1	1
2949	2,4,3,6,10,16,18,21,27,26,31,34,36,39,41,40,42,47,50,54	158840	31	56229	142599	108513	32	47	2.05	38.27	130.74	313.04	5	306576	29.5	2	1	1
2950	2,4,3,6,10,16,18,21,27,26,31,34,36,39,41,40,42,49,53,54	158456	30	55597	142215	108129	30	46	2.42	36.36	127.57	318.02	6	304298	29.5	2	1	1
2951	2,4,3,6,10,16,18,21,27,26,31,34,36,39,41,43,47,46,48,51	169522	31	95433	153856	90021	32	51	1.93	35.55	125.82	356.95	7	359298	29.5	2	1	1
2952	2,4,3,6,10,16,18,21,27,26,31,34,36,39,41,43,47,46,48,52,53,54	166647	31	83853	150981	97256	30	50	2.05	35.95	125.82	348.26	6	328299	29.5	2	1	1
2953	2,4,3,6,10,16,18,21,27,26,31,34,36,39,41,43,47,49,53,54	158472	32	55654	142806	108721	30	46	2.42	36.36	128.39	318.16	6	304553	29.5	2	1	1
2954	2,4,3,6,10,16,18,21,27,26,31,34,36,39,41,43,50,54	157593	30	55022	141927	107841	30	47	2.05	38.27	129.47	311.57	5	301779	29.5	2	1	1
2955	2,4,3,6,10,16,18,21,27,26,31,34,36,39,44,55	149369	25	66389	140500	106414	29	42	1.93	37.43	128.86	307.42	5	297754	29.5	2	1	1
2956	2,4,3,6,10,16,18,21,27,26,31,34,36,39,45,55	164353	29	93709	148073	99798	34	47	2.33	41.78	148.91	326.68	5	353757	29.5	2	1	1
2957	2,4,3,6,10,16,18,21,27,26,31,34,38,40,42,46,48,51	158107	27	58679	151137	107406	33	48	2.09	36.71	76.45	384.82	7	292882	29.5	2	1	6
2958	2,4,3,6,10,16,18,21,27,26,31,34,38,40,42,46,48,52,53,54	155232	27	47099	148263	114640	31	47	2.21	37.11	76.45	376.13	6	261883	29.5	2	1	6

Table F-1: Route Data for All Routes

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
2959	2,4,3,6,10,16,18,21,27,26,31,34,38,40,42,47,50,54	147441	28	19531	140471	126489	33	44	2.21	39.43	82.19	341.05	5	240416	29.5	2	1	6
2960	2,4,3,6,10,16,18,21,27,26,31,34,38,40,42,49,53,54	147057	27	18900	140087	126106	31	43	2.58	37.52	79.03	346.03	6	238138	29.5	2	1	6
2961	2,4,3,6,10,16,18,21,27,26,31,34,38,41,44,55	151564	24	43285	138372	124390	30	43	2.09	38.59	80.31	353.97	5	271673	29.5	2	1	6
2962	2,4,3,6,10,16,18,21,27,26,31,34,38,41,45,55	166548	28	70605	145946	117774	35	48	2.49	42.94	100.36	373.22	5	327675	29.5	2	1	6
2963	2,4,3,6,10,16,18,21,27,26,31,34,38,43,47,46,48,51	158123	26	58736	151728	107998	33	48	2.09	36.71	77.27	384.96	7	293138	29.5	2	1	6
2964	2,4,3,6,10,16,18,21,27,26,31,34,38,43,47,46,48,52,53,54	155249	26	47156	148854	115232	31	47	2.21	37.11	77.27	376.27	6	262139	29.5	2	1	6
2965	2,4,3,6,10,16,18,21,27,26,31,34,38,43,47,49,53,54	147073	27	18956	140679	126697	31	43	2.58	37.52	79.84	346.17	6	238394	29.5	2	1	6
2966	2,4,3,6,10,16,18,21,27,26,31,34,38,43,50,54	146194	25	18325	139800	125818	31	44	2.21	39.43	80.92	339.58	5	235619	29.5	2	1	6
2967	2,4,3,6,10,16,18,21,27,26,33,37,40,41,44,55	151790	22	43447	138437	109915	31	44	1.83	36.54	80.45	354.63	5	274344	29.5	2	1	1
2968	2,4,3,6,10,16,18,21,27,26,33,37,40,41,45,55	166774	26	70767	146011	103299	36	49	2.23	40.89	100.50	373.88	5	330346	29.5	2	1	1
2969	2,4,3,6,10,16,18,21,27,26,33,37,40,43,47,46,48,51	158350	26	58898	151793	93522	34	49	1.83	34.66	77.40	385.47	7	295809	29.5	2	1	1
2970	2,4,3,6,10,16,18,21,27,26,33,37,40,43,47,46,48,52,53,54	155475	26	47318	148919	100757	32	48	1.95	35.06	77.40	376.78	6	264810	29.5	2	1	1
2971	2,4,3,6,10,16,18,21,27,26,33,37,40,43,47,49,53,54	147300	27	19118	140744	112222	32	44	2.32	35.47	79.97	346.68	6	241065	29.5	2	1	1
2972	2,4,3,6,10,16,18,21,27,26,33,37,40,43,50,54	146421	25	18486	139864	111342	32	45	1.95	37.38	81.05	340.09	5	238291	29.5	2	1	1
2973	2,4,3,6,10,16,18,21,27,26,33,37,42,46,48,51	157183	23	57691	151202	92931	32	49	1.83	34.66	76.59	384.47	7	291093	29.5	2	1	1
2974	2,4,3,6,10,16,18,21,27,26,33,37,42,46,48,52,53,54	154309	23	46111	148327	100165	30	48	1.95	35.06	76.59	375.78	6	260094	29.5	2	1	1
2975	2,4,3,6,10,16,18,21,27,26,33,37,42,47,50,54	146517	24	18543	140536	112014	32	45	1.95	37.38	82.32	340.70	5	238627	29.5	2	1	1
2976	2,4,3,6,10,16,18,21,27,26,33,37,42,49,53,54	146134	23	17911	140152	111630	30	44	2.32	35.47	79.16	345.68	6	236349	29.5	2	1	1
2977	2,4,3,6,10,16,18,21,28,31,30,32,46,47,50,54	167792	29	71239	138666	113922	36	54	1.53	41.64	101.37	370.96	5	367628	40.5	2	0	5
2978	2,4,3,6,10,16,18,21,28,31,30,32,46,49,53,54	167408	28	70607	138282	113538	34	53	1.90	39.73	98.21	375.36	6	365349	40.5	2	0	5
2979	2,4,3,6,10,16,18,21,28,31,30,32,48,51	163000	26	94929	133875	87235	36	56	1.41	38.92	95.63	361.51	5	397832	40.5	2	0	5
2980	2,4,3,6,10,16,18,21,28,31,30,32,48,52,53,54	160126	26	83349	131000	94469	34	55	1.53	39.32	95.63	352.82	4	366833	40.5	2	0	5
2981	2,4,3,6,10,16,18,21,28,31,33,37,40,41,44,55	151148	22	41174	138637	112681	31	44	1.83	35.38	86.49	347.59	5	268368	29.5	2	0	1
2982	2,4,3,6,10,16,18,21,28,31,33,37,40,41,45,55	166132	26	68494	146211	106065	36	49	2.23	39.73	106.55	366.85	5	324370	29.5	2	0	1
2983	2,4,3,6,10,16,18,21,28,31,33,37,40,43,47,46,48,51	157707	26	56625	151993	96289	34	49	1.83	33.50	83.45	378.43	7	289833	29.5	2	0	1
2984	2,4,3,6,10,16,18,21,28,31,33,37,40,43,47,46,48,52,53,54	154833	26	45045	149119	103523	32	48	1.95	33.90	83.45	369.74	6	258834	29.5	2	0	1
2985	2,4,3,6,10,16,18,21,28,31,33,37,40,43,47,49,53,54	146657	27	16845	140944	114988	32	44	2.32	34.31	86.02	339.64	6	235088	29.5	2	0	1
2986	2,4,3,6,10,16,18,21,28,31,33,37,40,43,50,54	145778	25	16213	140064	114109	32	45	1.95	36.22	87.10	333.05	5	232314	29.5	2	0	1
2987	2,4,3,6,10,16,18,21,28,31,33,37,42,46,48,51	156541	23	55418	151402	95697	32	49	1.83	33.50	82.64	377.43	7	285116	29.5	2	0	1
2988	2,4,3,6,10,16,18,21,28,31,33,37,42,46,48,52,53,54	153666	23	43838	148528	102931	30	48	1.95	33.90	82.64	368.74	6	254117	29.5	2	0	1
2989	2,4,3,6,10,16,18,21,28,31,33,37,42,47,50,54	145875	24	16270	140736	114781	32	45	1.95	36.22	88.37	333.66	5	232651	29.5	2	0	1
2990	2,4,3,6,10,16,18,21,28,31,33,37,42,49,53,54	145491	23	15638	140352	114397	30	44	2.32	34.31	85.21	338.64	6	230372	29.5	2	0	1
2991	2,4,3,6,10,16,18,21,28,34,35,37,40,41,44,55	150897	22	41374	138800	117498	31	43	1.83	36.37	85.45	346.90	5	265521	29.5	2	0	1
2992	2,4,3,6,10,16,18,21,28,34,35,37,40,41,45,55	165881	26	68693	146374	110882	36	48	2.23	40.72	105.50	366.16	5	321523	29.5	2	0	1
2993	2,4,3,6,10,16,18,21,28,34,35,37,40,43,47,46,48,51	157457	26	56824	152156	101105	34	48	1.83	34.49	82.41	377.74	7	286986	29.5	2	0	1
2994	2,4,3,6,10,16,18,21,28,34,35,37,40,43,47,46,48,52,53,54	154582	26	45244	149282	108340	32	47	1.95	34.89	82.41	369.05	6	255987	29.5	2	0	1
2995	2,4,3,6,10,16,18,21,28,34,35,37,40,43,47,49,53,54	146407	27	17045	141106	119805	32	43	2.32	35.30	84.98	338.95	6	232242	29.5	2	0	1
2996	2,4,3,6,10,16,18,21,28,34,35,37,40,43,50,54	145528	25	16413	140227	118925	32	44	1.95	37.21	86.06	332.36	5	229468	29.5	2	0	1
2997	2,4,3,6,10,16,18,21,28,34,35,37,42,46,48,51	156290	23	55618	151565	100514	32	48	1.83	34.49	81.59	376.74	7	282270	29.5	2	0	1
2998	2,4,3,6,10,16,18,21,28,34,35,37,42,46,48,52,53,54	153416	23	44037	148690	107748	30	47	1.95	34.89	81.59	368.05	6	251270	29.5	2	0	1
2999	2,4,3,6,10,16,18,21,28,34,35,37,42,47,50,54	145624	24	16469	140899	119597	32	44	1.95	37.21	87.33	332.97	5	229804	29.5	2	0	1
3000	2,4,3,6,10,16,18,21,28,34,35,37,42,49,53,54	145240	23	15838	140515	119213	30	43	2.32	35.30	84.17	337.95	6	227525	29.5	2	0	1
3001	2,4,3,6,10,16,18,21,28,34,36,39,41,40,42,46,48,51	168037	26	92277	153465	92196	32	51	1.93	34.39	130.43	347.65	7	348932	29.5	2	0	1
3002	2,4,3,6,10,16,18,21,28,34,36,39,41,40,42,46,48,52,53,54	165162	26	80697	150590	99430	30	50	2.05	34.79	130.43	338.96	6	317933	29.5	2	0	1
3003	2,4,3,6,10,16,18,21,28,34,36,39,41,40,42,47,50,54	157371	27	53129	142799	111280	32	47	2.05	37.11	136.17	303.88	5	296467	29.5	2	0	1
3004	2,4,3,6,10,16,18,21,28,34,36,39,41,40,42,49,53,54	156987	26	52498	142415	110896	30	46	2.42	35.20	133.01	308.86	6	294188	29.5	2	0	1
3005	2,4,3,6,10,16,18,21,28,34,36,39,41,43,47,46,48,51	168053	27	92334	154056	92788	32	51	1.93	34.39	131.25	347.79	7	349188	29.5	2	0	1
3006	2,4,3,6,10,16,18,21,28,34,36,39,41,43,47,46,48,52,53,54	165178	27	80754	151182	100022	30	50	2.05	34.79	131.25	339.10	6	318189	29.5	2	0	1
3007	2,4,3,6,10,16,18,21,28,34,36,39,41,43,47,49,53,54	157003	28	52554	143006	111487	30	46	2.42	35.20	133.82	309.00	6	294444	29.5	2	0	1
3008	2,4,3,6,10,16,18,21,28,34,36,39,41,43,50,54	156124	26	51923	142127	110608	30	47	2.05	37.11	134.90	302.41	5	291670	29.5	2	0	1
3009	2,4,3,6,10,16,18,21,28,34,36,39,44,55	147900	21	63290	140700	109180	29	42	1.93	36.27	134.29	298.26	5	287645	29.5	2	0	1

Westar Energy- JEC to East Manhattan
345/230 kV Transmission Line Project
Table F-1: Route Data for All Routes

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
3010	2,4,3,6,10,16,18,21,28,34,36,39,45,55	162884	25	90609	148274	102564	34	47	2.33	40.62	154.34	317.52	5	343647	29.5	2	0	1
3011	2,4,3,6,10,16,18,21,28,34,38,40,42,46,48,51	156638	23	55580	151337	110173	33	48	2.09	35.55	81.89	375.66	7	282773	29.5	2	0	6
3012	2,4,3,6,10,16,18,21,28,34,38,40,42,46,48,52,53,54	153763	23	44000	148463	117407	31	47	2.21	35.95	81.89	366.97	6	251773	29.5	2	0	6
3013	2,4,3,6,10,16,18,21,28,34,38,40,42,47,50,54	145972	24	16432	140672	129256	33	44	2.21	38.27	87.62	331.89	5	230307	29.5	2	0	6
3014	2,4,3,6,10,16,18,21,28,34,38,40,42,49,53,54	145588	23	15800	140288	128872	31	43	2.58	36.36	84.46	336.87	6	228028	29.5	2	0	6
3015	2,4,3,6,10,16,18,21,28,34,38,41,44,55	150095	20	40186	138573	127157	30	43	2.09	37.43	85.74	344.81	5	261563	29.5	2	0	6
3016	2,4,3,6,10,16,18,21,28,34,38,41,45,55	165079	24	67505	146146	120540	35	48	2.49	41.78	105.80	364.06	5	317566	29.5	2	0	6
3017	2,4,3,6,10,16,18,21,28,34,38,43,47,46,48,51	156654	22	55636	151929	110764	33	48	2.09	35.55	82.70	375.81	7	283028	29.5	2	0	6
3018	2,4,3,6,10,16,18,21,28,34,38,43,47,46,48,52,53,54	153780	22	44056	149054	117998	31	47	2.21	35.95	82.70	367.12	6	252029	29.5	2	0	6
3019	2,4,3,6,10,16,18,21,28,34,38,43,47,49,53,54	145604	23	15857	140879	129463	31	43	2.58	36.36	85.27	337.02	6	228284	29.5	2	0	6
3020	2,4,3,6,10,16,18,21,28,34,38,43,50,54	144725	21	15225	140000	128584	31	44	2.21	38.27	86.35	330.42	5	225510	29.5	2	0	6
3021	2,4,3,6,10,16,20,23,26,30,32,46,47,50,54	167659	27	68189	140306	110696	34	52	2.02	44.57	106.29	365.80	5	352693	39	2	1	5
3022	2,4,3,6,10,16,20,23,26,30,32,46,49,53,54	167275	26	67557	139922	110312	32	51	2.39	42.66	103.13	370.20	6	350415	39	2	1	5
3023	2,4,3,6,10,16,20,23,26,30,32,48,51	162868	24	91880	135514	84009	34	54	1.89	41.85	100.56	356.35	5	382897	39	2	1	5
3024	2,4,3,6,10,16,20,23,26,30,32,48,52,53,54	159993	24	80299	132640	91243	32	53	2.02	42.25	100.56	347.66	4	351898	39	2	1	5
3025	2,4,3,6,10,16,20,23,26,31,34,35,37,40,41,44,55	151591	22	39150	140440	114272	29	41	2.31	39.29	90.99	343.91	5	254720	28	2	1	1
3026	2,4,3,6,10,16,20,23,26,31,34,35,37,40,41,45,55	166575	26	66470	148014	107656	34	46	2.72	43.64	111.05	363.17	5	310722	28	2	1	1
3027	2,4,3,6,10,16,20,23,26,31,34,35,37,40,43,47,46,48,51	158150	26	54601	153796	97879	32	46	2.31	37.41	87.95	374.76	7	276185	28	2	1	1
3028	2,4,3,6,10,16,20,23,26,31,34,35,37,40,43,47,46,48,52,53,54	155276	26	43021	150921	105113	30	45	2.44	37.81	87.95	366.06	6	245186	28	2	1	1
3029	2,4,3,6,10,16,20,23,26,31,34,35,37,40,43,47,49,53,54	147101	27	14821	142746	116579	30	41	2.80	38.22	90.52	335.96	6	221440	28	2	1	1
3030	2,4,3,6,10,16,20,23,26,31,34,35,37,40,43,50,54	146222	25	14190	141867	115699	30	42	2.44	40.13	91.60	329.37	5	218666	28	2	1	1
3031	2,4,3,6,10,16,20,23,26,31,34,35,37,42,46,48,51	156984	23	53394	153204	97288	30	46	2.31	37.41	87.14	373.75	7	271468	28	2	1	1
3032	2,4,3,6,10,16,20,23,26,31,34,35,37,42,46,48,52,53,54	154110	23	41814	150330	104522	28	45	2.44	37.81	87.14	365.06	6	240469	28	2	1	1
3033	2,4,3,6,10,16,20,23,26,31,34,35,37,42,47,50,54	146318	24	14246	142539	116371	30	42	2.44	40.13	92.87	329.98	5	219003	28	2	1	1
3034	2,4,3,6,10,16,20,23,26,31,34,35,37,42,49,53,54	145934	23	13615	142155	115987	28	41	2.80	38.22	89.71	334.96	6	216724	28	2	1	1
3035	2,4,3,6,10,16,20,23,26,31,34,36,39,41,40,42,46,48,51	168731	26	90054	155104	88970	30	49	2.41	37.31	135.98	344.66	7	338131	28	2	1	1
3036	2,4,3,6,10,16,20,23,26,31,34,36,39,41,40,42,46,48,52,53,54	165856	26	78474	152230	96204	28	48	2.54	37.71	135.98	335.97	6	307132	28	2	1	1
3037	2,4,3,6,10,16,20,23,26,31,34,36,39,41,40,42,47,50,54	158065	27	50906	144439	108053	30	45	2.54	40.03	141.71	300.89	5	285666	28	2	1	1
3038	2,4,3,6,10,16,20,23,26,31,34,36,39,41,40,42,49,53,54	157681	26	50274	144055	107670	28	44	2.91	38.12	138.55	305.87	6	283387	28	2	1	1
3039	2,4,3,6,10,16,20,23,26,31,34,36,39,41,43,47,46,48,51	168747	27	90111	155696	89562	30	49	2.41	37.31	136.79	344.81	7	338387	28	2	1	1
3040	2,4,3,6,10,16,20,23,26,31,34,36,39,41,43,47,46,48,52,53,54	165872	27	78530	152821	96796	28	48	2.54	37.71	136.79	336.11	6	307388	28	2	1	1
3041	2,4,3,6,10,16,20,23,26,31,34,36,39,41,43,47,49,53,54	157697	28	50331	144646	108261	28	44	2.91	38.12	139.36	306.01	6	283643	28	2	1	1
3042	2,4,3,6,10,16,20,23,26,31,34,36,39,41,43,50,54	156818	26	49699	143767	107382	28	45	2.54	40.03	140.44	299.42	5	280869	28	2	1	1
3043	2,4,3,6,10,16,20,23,26,31,34,36,39,44,55	148594	21	61066	142340	105954	27	40	2.41	39.20	139.83	295.27	5	276844	28	2	1	1
3044	2,4,3,6,10,16,20,23,26,31,34,36,39,45,55	163578	25	88386	149913	99338	32	45	2.82	43.54	159.89	314.53	5	332846	28	2	1	1
3045	2,4,3,6,10,16,20,23,26,31,34,38,40,42,46,48,51	157332	23	53356	152977	106946	31	46	2.57	38.47	87.43	372.67	7	271971	28	2	1	6
3046	2,4,3,6,10,16,20,23,26,31,34,38,40,42,46,48,52,53,54	154457	23	41776	150103	114181	29	45	2.70	38.87	87.43	363.98	6	240972	28	2	1	6
3047	2,4,3,6,10,16,20,23,26,31,34,38,40,42,47,50,54	146666	24	14208	142311	126030	31	42	2.70	41.19	93.16	328.90	5	219506	28	2	1	6
3048	2,4,3,6,10,16,20,23,26,31,34,38,40,42,49,53,54	146282	23	13577	141927	125646	29	41	3.06	39.28	90.00	333.88	6	217227	28	2	1	6
3049	2,4,3,6,10,16,20,23,26,31,34,38,41,44,55	150789	20	37962	140212	123931	28	41	2.57	40.36	91.29	341.82	5	250762	28	2	1	6
3050	2,4,3,6,10,16,20,23,26,31,34,38,41,45,55	165773	24	65282	147786	117314	33	46	2.98	44.70	111.34	361.08	5	306764	28	2	1	6
3051	2,4,3,6,10,16,20,23,26,31,34,38,43,47,46,48,51	157348	22	53413	153568	107538	31	46	2.57	38.47	88.24	372.82	7	272227	28	2	1	6
3052	2,4,3,6,10,16,20,23,26,31,34,38,43,47,46,48,52,53,54	154474	22	41833	150694	114772	29	45	2.70	38.87	88.24	364.13	6	241228	28	2	1	6
3053	2,4,3,6,10,16,20,23,26,31,34,38,43,47,49,53,54	146298	23	13633	142519	126237	29	41	3.06	39.28	90.81	334.03	6	217483	28	2	1	6
3054	2,4,3,6,10,16,20,23,26,31,34,38,43,50,54	145419	21	13002	141640	125358	29	42	2.70	41.19	91.90	327.43	5	214709	28	2	1	6
3055	2,4,3,6,10,16,20,23,26,33,37,40,41,44,55	151015	18	38124	140277	109455	29	42	2.31	38.30	91.42	342.48	5	253433	28	2	1	1
3056	2,4,3,6,10,16,20,23,26,33,37,40,41,45,55	165999	22	65444	147851	102839	34	47	2.72	42.65	111.47	361.74	5	309436	28	2	1	1
3057	2,4,3,6,10,16,20,23,26,33,37,40,43,47,46,48,51	157574	22	53575	153633	93063	32	47	2.31	36.42	88.38	373.33	7	274899	28	2	1	1
3058	2,4,3,6,10,16,20,23,26,33,37,40,43,47,46,48,52,53,54	154700	22	41995	150759	100297	30	46	2.44	36.82	88.38	364.63	6	243899	28	2	1	1
3059	2,4,3,6,10,16,20,23,26,33,37,40,43,47,49,53,54	146525	23	13795	142584	111762	30	42	2.80	37.23	90.95	334.54	6	220154	28	2	1	1
3060	2,4,3,6,10,16,20,23,26,33,37,40,43,50,54	145646	21	13164	141704	110883	30	43	2.44	39.14	92.03	327.94	5	217380	28	2	1	1

Table F-1: Route Data for All Routes

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
3061	2,4,3,6,10,16,20,23,26,33,37,42,46,48,51	156408	19	52368	153042	92471	30	47	2.31	36.42	87.56	372.33	7	270182	28	2	1	1
3062	2,4,3,6,10,16,20,23,26,33,37,42,46,48,52,53,54	153534	19	40788	150167	99705	28	46	2.44	36.82	87.56	363.63	6	239183	28	2	1	1
3063	2,4,3,6,10,16,20,23,26,33,37,42,47,50,54	145742	20	13220	142376	111554	30	43	2.44	39.14	93.30	328.55	5	217717	28	2	1	1
3064	2,4,3,6,10,16,20,23,26,33,37,42,49,53,54	145358	19	12588	141992	111171	28	42	2.80	37.23	90.13	333.53	6	215438	28	2	1	1
3065	2,4,3,6,10,16,20,23,27,28,31,30,32,46,47,50,54	167970	27	66869	140506	113462	34	52	2.02	43.40	115.44	358.82	5	350531	39	2	0	5
3066	2,4,3,6,10,16,20,23,27,28,31,30,32,46,49,53,54	167586	26	66238	140122	113078	32	51	2.39	41.49	112.28	363.21	6	348252	39	2	0	5
3067	2,4,3,6,10,16,20,23,27,28,31,30,32,48,51	163179	24	90560	135715	86775	34	54	1.89	40.68	109.70	349.37	5	380735	39	2	0	5
3068	2,4,3,6,10,16,20,23,27,28,31,30,32,48,52,53,54	160304	24	78980	132840	94009	32	53	2.02	41.09	109.70	340.68	4	349736	39	2	0	5
3069	2,4,3,6,10,16,20,23,27,28,31,33,37,40,41,44,55	151326	20	36805	140477	112222	29	42	2.31	37.14	100.56	335.44	5	251271	28	2	0	1
3070	2,4,3,6,10,16,20,23,27,28,31,33,37,40,41,45,55	166310	24	64124	148051	105605	34	47	2.72	41.49	120.62	354.70	5	307273	28	2	0	1
3071	2,4,3,6,10,16,20,23,27,28,31,33,37,40,43,47,46,48,51	157885	24	52255	153833	95829	32	47	2.31	35.26	97.52	366.29	7	272736	28	2	0	1
3072	2,4,3,6,10,16,20,23,27,28,31,33,37,40,43,47,46,48,52,53,54	155011	24	40675	150959	103063	30	46	2.44	35.66	97.52	357.60	6	241737	28	2	0	1
3073	2,4,3,6,10,16,20,23,27,28,31,33,37,40,43,47,49,53,54	146836	25	12476	142784	114528	30	42	2.80	36.07	100.09	327.50	6	217992	28	2	0	1
3074	2,4,3,6,10,16,20,23,27,28,31,33,37,40,43,50,54	145957	23	11844	141904	113649	30	43	2.44	37.98	101.17	320.90	5	215218	28	2	0	1
3075	2,4,3,6,10,16,20,23,27,28,31,33,37,42,46,48,51	156719	21	51049	153242	95238	30	47	2.31	35.26	96.71	365.29	7	268020	28	2	0	1
3076	2,4,3,6,10,16,20,23,27,28,31,33,37,42,46,48,52,53,54	153845	21	39468	150368	102472	28	46	2.44	35.66	96.71	356.60	6	237021	28	2	0	1
3077	2,4,3,6,10,16,20,23,27,28,31,33,37,42,47,50,54	146053	22	11900	142576	114321	30	43	2.44	37.98	102.44	321.51	5	215554	28	2	0	1
3078	2,4,3,6,10,16,20,23,27,28,31,33,37,42,49,53,54	145669	21	11269	142192	113937	28	42	2.80	36.07	99.28	326.50	6	213275	28	2	0	1
3079	2,4,3,6,10,16,20,23,27,28,34,35,37,40,41,44,55	151076	20	37004	140640	117038	29	41	2.31	38.13	99.52	334.75	5	248424	28	2	0	1
3080	2,4,3,6,10,16,20,23,27,28,34,35,37,40,41,45,55	166060	24	64324	148214	110422	34	46	2.72	42.48	119.57	354.01	5	304426	28	2	0	1
3081	2,4,3,6,10,16,20,23,27,28,34,35,37,40,43,47,46,48,51	157635	24	52455	153996	100646	32	46	2.31	36.25	96.48	365.60	7	269889	28	2	0	1
3082	2,4,3,6,10,16,20,23,27,28,34,35,37,40,43,47,46,48,52,53,54	154761	24	40875	151122	107880	30	45	2.44	36.65	96.48	356.91	6	238890	28	2	0	1
3083	2,4,3,6,10,16,20,23,27,28,34,35,37,40,43,47,49,53,54	146585	25	12675	142946	119345	30	41	2.80	37.06	99.05	326.81	6	215145	28	2	0	1
3084	2,4,3,6,10,16,20,23,27,28,34,35,37,40,43,50,54	145706	23	12044	142067	118466	30	42	2.44	38.97	100.13	320.21	5	212371	28	2	0	1
3085	2,4,3,6,10,16,20,23,27,28,34,35,37,42,46,48,51	156468	21	51248	153405	100054	30	46	2.31	36.25	95.66	364.60	7	265173	28	2	0	1
3086	2,4,3,6,10,16,20,23,27,28,34,35,37,42,46,48,52,53,54	153594	21	39668	150530	107288	28	45	2.44	36.65	95.66	355.91	6	234174	28	2	0	1
3087	2,4,3,6,10,16,20,23,27,28,34,35,37,42,47,50,54	145803	22	12100	142739	119137	30	42	2.44	38.97	101.40	320.83	5	212707	28	2	0	1
3088	2,4,3,6,10,16,20,23,27,28,34,35,37,42,49,53,54	145419	21	11468	142355	118753	28	41	2.80	37.06	98.24	325.81	6	210428	28	2	0	1
3089	2,4,3,6,10,16,20,23,27,28,34,36,39,41,40,42,46,48,51	168215	24	87908	155305	91737	30	49	2.41	36.15	144.50	335.51	7	331836	28	2	0	1
3090	2,4,3,6,10,16,20,23,27,28,34,36,39,41,40,42,46,48,52,53,54	165341	24	76328	152430	98971	28	48	2.54	36.55	144.50	326.82	6	300837	28	2	0	1
3091	2,4,3,6,10,16,20,23,27,28,34,36,39,41,40,42,47,50,54	157549	25	48760	144639	110820	30	45	2.54	38.87	150.24	291.73	5	279370	28	2	0	1
3092	2,4,3,6,10,16,20,23,27,28,34,36,39,41,40,42,49,53,54	157165	24	48128	144255	110436	28	44	2.91	36.96	147.08	296.72	6	277091	28	2	0	1
3093	2,4,3,6,10,16,20,23,27,28,34,36,39,41,43,47,46,48,51	168231	25	87964	155896	92328	30	49	2.41	36.15	145.32	335.65	7	332091	28	2	0	1
3094	2,4,3,6,10,16,20,23,27,28,34,36,39,41,43,47,46,48,52,53,54	165357	25	76384	153021	99562	28	48	2.54	36.55	145.32	326.96	6	301092	28	2	0	1
3095	2,4,3,6,10,16,20,23,27,28,34,36,39,41,43,47,49,53,54	157181	26	48185	144846	111027	28	44	2.91	36.96	147.89	296.86	6	277347	28	2	0	1
3096	2,4,3,6,10,16,20,23,27,28,34,36,39,41,43,50,54	156302	24	47553	143967	110148	28	45	2.54	38.87	148.97	290.26	5	274573	28	2	0	1
3097	2,4,3,6,10,16,20,23,27,28,34,36,39,44,55	148078	19	58920	142540	108721	27	40	2.41	38.03	148.36	286.12	5	270548	28	2	0	1
3098	2,4,3,6,10,16,20,23,27,28,34,36,39,45,55	163062	23	86240	150114	102104	32	45	2.82	42.38	168.41	305.37	5	326550	28	2	0	1
3099	2,4,3,6,10,16,20,23,27,28,34,38,40,42,46,48,51	156816	21	51210	153177	109713	31	46	2.57	37.31	95.95	363.52	7	265676	28	2	0	6
3100	2,4,3,6,10,16,20,23,27,28,34,38,40,42,46,48,52,53,54	153942	21	39630	150303	116947	29	45	2.70	37.71	95.95	354.83	6	234677	28	2	0	6
3101	2,4,3,6,10,16,20,23,27,28,34,38,40,42,47,50,54	146150	22	12062	142512	128796	31	42	2.70	40.03	101.69	319.74	5	213210	28	2	0	6
3102	2,4,3,6,10,16,20,23,27,28,34,38,40,42,49,53,54	145766	21	11431	142128	128412	29	41	3.06	38.12	98.53	324.73	6	210931	28	2	0	6
3103	2,4,3,6,10,16,20,23,27,28,34,38,41,44,55	150273	18	35816	140412	126697	28	41	2.57	39.19	99.81	332.66	5	244466	28	2	0	6
3104	2,4,3,6,10,16,20,23,27,28,34,38,41,45,55	165257	22	63136	147986	120080	33	46	2.98	43.54	119.86	351.92	5	300469	28	2	0	6
3105	2,4,3,6,10,16,20,23,27,28,34,38,43,47,46,48,51	156832	20	51267	153769	110304	31	46	2.57	37.31	96.77	363.66	7	265932	28	2	0	6
3106	2,4,3,6,10,16,20,23,27,28,34,38,43,47,46,48,52,53,54	153958	20	39687	150894	117538	29	45	2.70	37.71	96.77	354.97	6	234933	28	2	0	6
3107	2,4,3,6,10,16,20,23,27,28,34,38,43,47,49,53,54	145783	21	11487	142719	129003	29	41	3.06	38.12	99.34	324.87	6	211187	28	2	0	6
3108	2,4,3,6,10,16,20,23,27,28,34,38,43,50,54	144903	19	10856	141840	128124	29	42	2.70	40.03	100.42	318.28	5	208413	28	2	0	6
3109	2,4,3,6,8,14,30,31,34,35,37,40,41,44,55	163488	18	105646	141758	114667	30	51	1.86	27.80	112.76	369.78	6	353250	11	2	0	1
3110	2,4,3,6,8,14,30,31,34,35,37,40,41,45,55	178472	22	132965	149331	108051	35	56	2.26	32.15	132.81	389.03	6	409252	11	2	0	1
3111	2,4,3,6,8,14,30,31,34,35,37,40,43,47,46,48,51	170047	22	121096	155114	98274	33	56	1.86	25.92	109.71	400.62	8	374715	11	2	0	1

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
3112	2,4,3,6,8,14,30,31,34,35,37,40,43,47,46,48,52,53,54	167173	22	109516	152239	105508	31	55	1.98	26.32	109.71	391.93	7	343716	11	2	0	1
3113	2,4,3,6,8,14,30,31,34,35,37,40,43,47,49,53,54	158997	23	81317	144064	116973	31	51	2.35	26.73	112.29	361.83	7	319970	11	2	0	1
3114	2,4,3,6,8,14,30,31,34,35,37,40,43,50,54	158118	21	80685	143185	116094	31	52	1.98	28.64	113.37	355.23	6	317196	11	2	0	1
3115	2,4,3,6,8,14,30,31,34,35,37,42,46,48,51	168881	19	119890	154522	97683	31	56	1.86	25.92	108.90	399.62	8	369998	11	2	0	1
3116	2,4,3,6,8,14,30,31,34,35,37,42,46,48,52,53,54	166006	19	108310	151648	104917	29	55	1.98	26.32	108.90	390.93	7	338999	11	2	0	1
3117	2,4,3,6,8,14,30,31,34,35,37,42,47,50,54	158215	20	80742	143857	116766	31	52	1.98	28.64	114.63	355.85	6	317533	11	2	0	1
3118	2,4,3,6,8,14,30,31,34,35,37,42,49,53,54	157831	19	80110	143473	116382	29	51	2.35	26.73	111.47	360.83	7	315254	11	2	0	1
3119	2,4,3,6,8,14,30,31,34,36,39,41,40,42,46,48,51	180627	22	156550	156422	89365	31	59	1.96	25.82	157.74	370.53	8	436661	11	2	0	1
3120	2,4,3,6,8,14,30,31,34,36,39,41,40,42,46,48,52,53,54	177753	22	144969	153548	96599	29	58	2.08	26.22	157.74	361.84	7	405662	11	2	0	1
3121	2,4,3,6,8,14,30,31,34,36,39,41,40,42,47,50,54	169961	23	117401	145757	108448	31	55	2.08	28.54	163.47	326.76	6	384196	11	2	0	1
3122	2,4,3,6,8,14,30,31,34,36,39,41,40,42,49,53,54	169577	22	116770	145373	108064	29	54	2.45	26.63	160.31	331.74	7	381917	11	2	0	1
3123	2,4,3,6,8,14,30,31,34,36,39,41,43,47,46,48,51	180643	23	156606	157014	89957	31	59	1.96	25.82	158.55	370.67	8	436917	11	2	0	1
3124	2,4,3,6,8,14,30,31,34,36,39,41,43,47,46,48,52,53,54	177769	23	145026	154139	97191	29	58	2.08	26.22	158.55	361.98	7	405918	11	2	0	1
3125	2,4,3,6,8,14,30,31,34,36,39,41,43,47,49,53,54	169594	24	116826	145964	108656	29	54	2.45	26.63	161.13	331.88	7	382173	11	2	0	1
3126	2,4,3,6,8,14,30,31,34,36,39,41,43,50,54	168714	22	116195	145085	107777	29	55	2.08	28.54	162.21	325.28	6	379399	11	2	0	1
3127	2,4,3,6,8,14,30,31,34,36,39,44,55	160490	17	127562	143657	106349	28	50	1.96	27.70	161.60	321.14	6	375374	11	2	0	1
3128	2,4,3,6,8,14,30,31,34,36,39,45,55	175474	21	154881	151231	99733	33	55	2.36	32.05	181.65	340.39	6	431376	11	2	0	1
3129	2,4,3,6,8,14,30,31,34,38,40,42,46,48,51	169228	19	119852	154295	107341	32	56	2.11	26.98	109.19	398.54	8	370501	11	2	0	6
3130	2,4,3,6,8,14,30,31,34,38,40,42,46,48,52,53,54	166354	19	108272	151421	114575	30	55	2.24	27.38	109.19	389.85	7	339502	11	2	0	6
3131	2,4,3,6,8,14,30,31,34,38,40,42,47,50,54	158563	20	80704	143629	126425	32	52	2.24	29.70	114.93	354.77	6	318036	11	2	0	6
3132	2,4,3,6,8,14,30,31,34,38,40,42,49,53,54	158179	19	80072	143245	126041	30	51	2.61	27.79	111.76	359.75	7	315757	11	2	0	6
3133	2,4,3,6,8,14,30,31,34,38,41,44,55	162685	16	104458	141530	124325	29	51	2.11	28.86	113.05	367.68	6	349292	11	2	0	6
3134	2,4,3,6,8,14,30,31,34,38,41,45,55	177669	20	131777	149104	117709	34	56	2.52	33.21	133.10	386.94	6	405294	11	2	0	6
3135	2,4,3,6,8,14,30,31,34,38,43,47,46,48,51	169244	18	119908	154886	107933	32	56	2.11	26.98	110.01	398.68	8	370757	11	2	0	6
3136	2,4,3,6,8,14,30,31,34,38,43,47,46,48,52,53,54	166370	18	108328	152012	115167	30	55	2.24	27.38	110.01	389.99	7	339758	11	2	0	6
3137	2,4,3,6,8,14,30,31,34,38,43,47,49,53,54	158195	19	80129	143837	126632	30	51	2.61	27.79	112.58	359.89	7	316013	11	2	0	6
3138	2,4,3,6,8,14,30,31,34,38,43,50,54	157316	17	79497	142957	125753	30	52	2.24	29.70	113.66	353.30	6	313239	11	2	0	6
3139	2,4,3,6,8,14,30,33,37,40,41,44,55	162912	16	104620	141595	109850	30	52	1.86	26.81	113.18	368.29	6	351964	11	2	0	1
3140	2,4,3,6,8,14,30,33,37,40,41,45,55	177896	20	131939	149169	103234	35	57	2.26	31.16	133.24	387.55	6	407966	11	2	0	1
3141	2,4,3,6,8,14,30,33,37,40,43,47,46,48,51	169471	20	120070	154951	93458	33	57	1.86	24.93	110.14	399.14	8	373429	11	2	0	1
3142	2,4,3,6,8,14,30,33,37,40,43,47,46,48,52,53,54	166597	20	108490	152077	100692	31	56	1.98	25.33	110.14	390.44	7	342430	11	2	0	1
3143	2,4,3,6,8,14,30,33,37,40,43,47,49,53,54	158421	21	80291	143901	112157	31	52	2.35	25.74	112.71	360.35	7	318684	11	2	0	1
3144	2,4,3,6,8,14,30,33,37,40,43,50,54	157542	19	79659	143022	111278	31	53	1.98	27.65	113.79	353.75	6	315910	11	2	0	1
3145	2,4,3,6,8,14,30,33,37,42,46,48,51	168305	17	118863	154360	92866	31	57	1.86	24.93	109.33	398.14	8	368712	11	2	0	1
3146	2,4,3,6,8,14,30,33,37,42,46,48,52,53,54	165430	17	107283	151485	100100	29	56	1.98	25.33	109.33	389.44	7	337713	11	2	0	1
3147	2,4,3,6,8,14,30,33,37,42,47,50,54	157639	18	79715	143694	111949	31	53	1.98	27.65	115.06	354.36	6	316247	11	2	0	1
3148	2,4,3,6,8,14,30,33,37,42,49,53,54	157255	17	79084	143310	111565	29	52	2.35	25.74	111.90	359.34	7	313968	11	2	0	1
3149	2,4,3,6,8,14,32,46,47,50,54	171900	21	127029	141624	111091	33	60	1.56	33.07	128.06	366.70	6	413188	19	2	0	5
3150	2,4,3,6,8,14,32,46,49,53,54	171516	20	126397	141240	110707	31	59	1.93	31.16	124.90	371.09	7	410909	19	2	0	5
3151	2,4,3,6,8,14,32,48,51	167109	18	150720	136832	84404	33	62	1.44	30.35	122.32	357.25	6	443392	19	2	0	5
3152	2,4,3,6,8,14,32,48,52,53,54	164234	18	139140	133958	91638	31	61	1.56	30.75	122.32	348.56	5	412393	19	2	0	5
3153	2,4,3,6,9,11,13,12,14,30,31,34,35,37,40,41,44,55	165477	20	83284	153376	122861	32	50	3.08	35.87	119.53	361.49	5	334746	13.5	2	0	1
3154	2,4,3,6,9,11,13,12,14,30,31,34,35,37,40,41,45,55	180461	24	110604	160950	116245	37	55	3.48	40.22	139.58	380.75	5	390748	13.5	2	0	1
3155	2,4,3,6,9,11,13,12,14,30,31,34,35,37,40,43,47,46,48,51	172036	24	98735	166732	106469	35	55	3.08	33.99	116.49	392.33	7	356211	13.5	2	0	1
3156	2,4,3,6,9,11,13,12,14,30,31,34,35,37,40,43,47,46,48,52,53,54	169162	24	87155	163858	113703	33	54	3.20	34.39	116.49	383.64	6	325212	13.5	2	0	1
3157	2,4,3,6,9,11,13,12,14,30,31,34,35,37,40,43,47,49,53,54	160986	25	58955	155683	125168	33	50	3.57	34.80	119.06	353.54	6	301467	13.5	2	0	1
3158	2,4,3,6,9,11,13,12,14,30,31,34,35,37,40,43,50,54	160107	23	58324	154804	124289	33	51	3.20	36.71	120.14	346.95	5	298693	13.5	2	0	1
3159	2,4,3,6,9,11,13,12,14,30,31,34,35,37,42,46,48,51	170869	21	97528	166141	105877	33	55	3.08	33.99	115.67	391.33	7	351495	13.5	2	0	1
3160	2,4,3,6,9,11,13,12,14,30,31,34,35,37,42,46,48,52,53,54	167995	21	85948	163267	113112	31	54	3.20	34.39	115.67	382.64	6	320496	13.5	2	0	1
3161	2,4,3,6,9,11,13,12,14,30,31,34,35,37,42,47,50,54	160204	22	58380	155475	124961	33	51	3.20	36.71	121.41	347.56	5	299029	13.5	2	0	1
3162	2,4,3,6,9,11,13,12,14,30,31,34,35,37,42,49,53,54	159820	21	57748	155092	124577	31	50	3.57	34.80	118.25	352.54	6	296750	13.5	2	0	1

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
3163	2,4,3,6,9,11,13,12,14,30,31,34,36,39,41,40,42,46,48,51	182616	24	134188	168041	97560	33	58	3.18	33.89	164.51	362.24	7	418157	13.5	2	0	1
3164	2,4,3,6,9,11,13,12,14,30,31,34,36,39,41,40,42,46,48,52,53,54	179742	24	122608	165167	104794	31	57	3.30	34.29	164.51	353.55	6	387158	13.5	2	0	1
3165	2,4,3,6,9,11,13,12,14,30,31,34,36,39,41,40,42,47,50,54	171950	25	95040	157375	116643	33	54	3.30	36.61	170.25	318.47	5	365692	13.5	2	0	1
3166	2,4,3,6,9,11,13,12,14,30,31,34,36,39,41,40,42,49,53,54	171566	24	94408	156991	116259	31	53	3.67	34.70	167.09	323.45	6	363413	13.5	2	0	1
3167	2,4,3,6,9,11,13,12,14,30,31,34,36,39,41,43,47,46,48,51	182632	25	134244	168632	98151	33	58	3.18	33.89	165.33	362.38	7	418413	13.5	2	0	1
3168	2,4,3,6,9,11,13,12,14,30,31,34,36,39,41,43,47,46,48,52,53,54	179758	25	122664	165758	105385	31	57	3.30	34.29	165.33	353.69	6	387414	13.5	2	0	1
3169	2,4,3,6,9,11,13,12,14,30,31,34,36,39,41,43,47,49,53,54	171582	26	94465	157583	116850	31	53	3.67	34.70	167.90	323.59	6	363669	13.5	2	0	1
3170	2,4,3,6,9,11,13,12,14,30,31,34,36,39,41,43,50,54	170703	24	93833	156703	115971	31	54	3.30	36.61	168.98	317.00	5	360895	13.5	2	0	1
3171	2,4,3,6,9,11,13,12,14,30,31,34,36,39,44,55	162479	19	105200	155276	114544	30	49	3.18	35.77	168.37	312.85	5	356870	13.5	2	0	1
3172	2,4,3,6,9,11,13,12,14,30,31,34,36,39,45,55	177463	23	132520	162850	107927	35	54	3.58	40.12	188.42	332.11	5	412872	13.5	2	0	1
3173	2,4,3,6,9,11,13,12,14,30,31,34,38,40,42,46,48,51	171217	21	97490	165914	115536	34	55	3.34	35.05	115.97	390.25	7	351998	13.5	2	0	6
3174	2,4,3,6,9,11,13,12,14,30,31,34,38,40,42,46,48,52,53,54	168343	21	85910	163039	122770	32	54	3.46	35.45	115.97	381.56	6	320999	13.5	2	0	6
3175	2,4,3,6,9,11,13,12,14,30,31,34,38,40,42,47,50,54	160551	22	58342	155248	134619	34	51	3.46	37.77	121.70	346.48	5	299532	13.5	2	0	6
3176	2,4,3,6,9,11,13,12,14,30,31,34,38,40,42,49,53,54	160167	21	57711	154864	134235	32	50	3.83	35.86	118.54	351.46	6	297253	13.5	2	0	6
3177	2,4,3,6,9,11,13,12,14,30,31,34,38,41,44,55	164674	18	82096	153149	132520	31	50	3.34	36.93	119.82	359.40	5	330788	13.5	2	0	6
3178	2,4,3,6,9,11,13,12,14,30,31,34,38,41,45,55	179658	22	109416	160723	125904	36	55	3.74	41.28	139.88	378.65	5	386791	13.5	2	0	6
3179	2,4,3,6,9,11,13,12,14,30,31,34,38,43,47,46,48,51	171233	20	97547	166505	116127	34	55	3.34	35.05	116.78	390.40	7	352253	13.5	2	0	6
3180	2,4,3,6,9,11,13,12,14,30,31,34,38,43,47,46,48,52,53,54	168359	20	85967	163631	123361	32	54	3.46	35.45	116.78	381.71	6	321254	13.5	2	0	6
3181	2,4,3,6,9,11,13,12,14,30,31,34,38,43,47,49,53,54	160184	21	57767	155455	134826	32	50	3.83	35.86	119.35	351.61	6	297509	13.5	2	0	6
3182	2,4,3,6,9,11,13,12,14,30,31,34,38,43,50,54	159304	19	57135	154576	133947	32	51	3.46	37.77	120.43	345.01	5	294735	13.5	2	0	6
3183	2,4,3,6,9,11,13,12,14,30,33,37,40,41,44,55	164901	18	82258	153214	118045	32	51	3.08	34.88	119.96	360.01	5	333460	13.5	2	0	1
3184	2,4,3,6,9,11,13,12,14,30,33,37,40,41,45,55	179885	22	109578	160787	111428	37	56	3.48	39.23	140.01	379.26	5	389462	13.5	2	0	1
3185	2,4,3,6,9,11,13,12,14,30,33,37,40,43,47,46,48,51	171460	22	97709	166570	101652	35	56	3.08	33.00	116.91	390.85	7	354925	13.5	2	0	1
3186	2,4,3,6,9,11,13,12,14,30,33,37,40,43,47,46,48,52,53,54	168586	22	86128	163695	108886	33	55	3.20	33.40	116.91	382.16	6	323926	13.5	2	0	1
3187	2,4,3,6,9,11,13,12,14,30,33,37,40,43,47,49,53,54	160410	23	57929	155520	120351	33	51	3.57	33.81	119.49	352.06	6	300180	13.5	2	0	1
3188	2,4,3,6,9,11,13,12,14,30,33,37,40,43,50,54	159531	21	57297	154641	119472	33	52	3.20	35.72	120.57	345.46	5	297406	13.5	2	0	1
3189	2,4,3,6,9,11,13,12,14,30,33,37,42,46,48,51	170293	19	96502	165978	101061	33	56	3.08	33.00	116.10	389.85	7	350208	13.5	2	0	1
3190	2,4,3,6,9,11,13,12,14,30,33,37,42,46,48,52,53,54	167419	19	84922	163104	108295	31	55	3.20	33.40	116.10	381.16	6	319209	13.5	2	0	1
3191	2,4,3,6,9,11,13,12,14,30,33,37,42,47,50,54	159628	20	57354	155313	120144	33	52	3.20	35.72	121.83	346.08	5	297743	13.5	2	0	1
3192	2,4,3,6,9,11,13,12,14,30,33,37,42,49,53,54	159244	19	56722	154929	119760	31	51	3.57	33.81	118.67	351.06	6	295464	13.5	2	0	1
3193	2,4,3,6,9,11,13,12,14,32,46,47,50,54	173889	23	104667	153243	119285	35	59	2.78	41.14	134.83	358.41	5	394684	21.5	2	0	5
3194	2,4,3,6,9,11,13,12,14,32,46,49,53,54	173505	22	104036	152859	118901	33	58	3.15	39.23	131.67	362.81	6	392405	21.5	2	0	5
3195	2,4,3,6,9,11,13,12,14,32,48,51	169098	20	128358	148451	92598	35	61	2.66	38.42	129.10	348.96	5	424888	21.5	2	0	5
3196	2,4,3,6,9,11,13,12,14,32,48,52,53,54	166223	20	116778	145577	99832	33	60	2.78	38.82	129.10	340.27	4	393889	21.5	2	0	5
3197	2,4,3,6,9,11,13,15,23,26,30,32,46,47,50,54	168450	32	77980	137540	108150	34	53	2.94	44.72	105.11	365.06	5	378602	18	2	1	5
3198	2,4,3,6,9,11,13,15,23,26,30,32,46,49,53,54	168066	31	77348	137156	107766	32	52	3.31	42.81	101.94	369.46	6	376323	18	2	1	5
3199	2,4,3,6,9,11,13,15,23,26,30,32,48,51	163659	29	101670	132748	81463	34	55	2.82	42.00	99.37	355.62	5	408806	18	2	1	5
3200	2,4,3,6,9,11,13,15,23,26,30,32,48,52,53,54	160784	29	90090	129874	88697	32	54	2.94	42.40	99.37	346.93	4	377807	18	2	1	5
3201	2,4,3,6,9,11,13,15,23,26,31,34,35,37,40,41,44,55	152382	27	48941	137673	111726	29	42	3.24	39.45	89.81	343.18	5	280628	7	2	1	1
3202	2,4,3,6,9,11,13,15,23,26,31,34,35,37,40,41,45,55	167366	31	76261	145247	105110	34	47	3.64	43.79	109.86	362.43	5	336630	7	2	1	1
3203	2,4,3,6,9,11,13,15,23,26,31,34,35,37,40,43,47,46,48,51	158942	31	64392	151030	95334	32	47	3.24	37.56	86.76	374.02	7	302093	7	2	1	1
3204	2,4,3,6,9,11,13,15,23,26,31,34,35,37,40,43,47,46,48,52,53,54	156067	31	52812	148155	102568	30	46	3.36	37.96	86.76	365.33	6	271094	7	2	1	1
3205	2,4,3,6,9,11,13,15,23,26,31,34,35,37,40,43,47,49,53,54	147892	32	24612	139980	114033	30	42	3.73	38.37	89.33	335.23	6	247349	7	2	1	1
3206	2,4,3,6,9,11,13,15,23,26,31,34,35,37,40,43,50,54	147013	30	23981	139101	113154	30	43	3.36	40.28	90.42	328.64	5	244575	7	2	1	1
3207	2,4,3,6,9,11,13,15,23,26,31,34,35,37,42,46,48,51	157775	28	63185	150438	94742	30	47	3.24	37.56	85.95	373.02	7	297377	7	2	1	1
3208	2,4,3,6,9,11,13,15,23,26,31,34,35,37,42,46,48,52,53,54	154901	28	51605	147564	101976	28	46	3.36	37.96	85.95	364.33	6	266378	7	2	1	1
3209	2,4,3,6,9,11,13,15,23,26,31,34,35,37,42,47,50,54	147109	29	24037	139773	113825	30	43	3.36	40.28	91.68	329.25	5	244911	7	2	1	1
3210	2,4,3,6,9,11,13,15,23,26,31,34,35,37,42,49,53,54	146725	28	23405	139389	113441	28	42	3.73	38.37	88.52	334.23	6	242632	7	2	1	1
3211	2,4,3,6,9,11,13,15,23,26,31,34,36,39,41,40,42,46,48,51	169522	31	99845	152338	86425	30	50	3.34	37.46	134.79	343.93	7	364040	7	2	1	1
3212	2,4,3,6,9,11,13,15,23,26,31,34,36,39,41,40,42,46,48,52,53,54	166647	31	88265	149464	93659	28	49	3.46	37.87	134.79	335.24	6	333041	7	2	1	1
3213	2,4,3,6,9,11,13,15,23,26,31,34,36,39,41,40,42,47,50,54	158856	32	60697	141672	105508	30	46	3.46	40.18	140.52	300.16	5	311574	7	2	1	1

Table F-1: Route Data for All Routes

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
3214	2,4,3,6,9,11,13,15,23,26,31,34,36,39,41,40,42,49,53,54	158472	31	60065	141288	105124	28	45	3.83	38.28	137.36	305.14	6	309295	7	2	1	1
3215	2,4,3,6,9,11,13,15,23,26,31,34,36,39,41,43,47,46,48,51	169538	32	99901	152929	87016	30	50	3.34	37.46	135.60	344.07	7	364296	7	2	1	1
3216	2,4,3,6,9,11,13,15,23,26,31,34,36,39,41,43,47,46,48,52,53,54	166663	32	88321	150055	94250	28	49	3.46	37.87	135.60	335.38	6	333296	7	2	1	1
3217	2,4,3,6,9,11,13,15,23,26,31,34,36,39,41,43,47,49,53,54	158488	33	60122	141880	105715	28	45	3.83	38.28	138.17	305.28	6	309551	7	2	1	1
3218	2,4,3,6,9,11,13,15,23,26,31,34,36,39,41,43,50,54	157609	31	59490	141000	104836	28	46	3.46	40.18	139.26	298.69	5	306777	7	2	1	1
3219	2,4,3,6,9,11,13,15,23,26,31,34,36,39,44,55	149385	26	70857	139573	103409	27	41	3.34	39.35	138.65	294.54	5	302752	7	2	1	1
3220	2,4,3,6,9,11,13,15,23,26,31,34,36,39,45,55	164369	30	98177	147147	96792	32	46	3.74	43.70	158.70	313.80	5	358754	7	2	1	1
3221	2,4,3,6,9,11,13,15,23,26,31,34,38,40,42,46,48,51	158123	28	63147	150211	104401	31	47	3.49	38.62	86.24	371.94	7	297880	7	2	1	6
3222	2,4,3,6,9,11,13,15,23,26,31,34,38,40,42,46,48,52,53,54	155248	28	51567	147336	111635	29	46	3.62	39.03	86.24	363.25	6	266881	7	2	1	6
3223	2,4,3,6,9,11,13,15,23,26,31,34,38,40,42,47,50,54	147457	29	23999	139545	123484	31	43	3.62	41.35	91.97	328.17	5	245414	7	2	1	6
3224	2,4,3,6,9,11,13,15,23,26,31,34,38,40,42,49,53,54	147073	28	23368	139161	123100	29	42	3.99	39.44	88.81	333.15	6	243135	7	2	1	6
3225	2,4,3,6,9,11,13,15,23,26,31,34,38,41,44,55	151580	25	47753	137446	121385	28	42	3.49	40.51	90.10	341.09	5	276670	7	2	1	6
3226	2,4,3,6,9,11,13,15,23,26,31,34,38,41,45,55	166564	29	75073	145020	114768	33	47	3.90	44.86	110.15	360.34	5	332673	7	2	1	6
3227	2,4,3,6,9,11,13,15,23,26,31,34,38,43,47,46,48,51	158139	27	63204	150802	104992	31	47	3.49	38.62	87.05	372.09	7	298136	7	2	1	6
3228	2,4,3,6,9,11,13,15,23,26,31,34,38,43,47,46,48,52,53,54	155265	27	51624	147928	112226	29	46	3.62	39.03	87.05	363.39	6	267137	7	2	1	6
3229	2,4,3,6,9,11,13,15,23,26,31,34,38,43,47,49,53,54	147089	28	23424	139752	123691	29	42	3.99	39.44	89.63	333.30	6	243391	7	2	1	6
3230	2,4,3,6,9,11,13,15,23,26,31,34,38,43,50,54	146210	26	22793	138873	122812	29	43	3.62	41.35	90.71	326.70	5	240617	7	2	1	6
3231	2,4,3,6,9,11,13,15,23,26,33,37,40,41,44,55	151806	23	47915	137511	106910	29	43	3.24	38.45	90.23	341.75	5	279342	7	2	1	1
3232	2,4,3,6,9,11,13,15,23,26,33,37,40,41,45,55	166790	27	75235	145085	100293	34	48	3.64	42.80	110.28	361.00	5	335344	7	2	1	1
3233	2,4,3,6,9,11,13,15,23,26,33,37,40,43,47,46,48,51	158366	27	63366	150867	90517	32	48	3.24	36.57	87.19	372.59	7	300807	7	2	1	1
3234	2,4,3,6,9,11,13,15,23,26,33,37,40,43,47,46,48,52,53,54	155491	27	51786	147992	97751	30	47	3.36	36.97	87.19	363.90	6	269808	7	2	1	1
3235	2,4,3,6,9,11,13,15,23,26,33,37,40,43,47,49,53,54	147316	28	23586	139817	109216	30	43	3.73	37.38	89.76	333.80	6	246063	7	2	1	1
3236	2,4,3,6,9,11,13,15,23,26,33,37,40,43,50,54	146437	26	22954	138938	108337	30	44	3.36	39.29	90.84	327.21	5	243289	7	2	1	1
3237	2,4,3,6,9,11,13,15,23,26,33,37,42,46,48,51	157199	24	62159	150275	89926	30	48	3.24	36.57	86.37	371.59	7	296091	7	2	1	1
3238	2,4,3,6,9,11,13,15,23,26,33,37,42,46,48,52,53,54	154325	24	50579	147401	97160	28	47	3.36	36.97	86.37	362.90	6	265092	7	2	1	1
3239	2,4,3,6,9,11,13,15,23,26,33,37,42,47,50,54	146533	25	23011	139610	109009	30	44	3.36	39.29	92.11	327.82	5	243625	7	2	1	1
3240	2,4,3,6,9,11,13,15,23,26,33,37,42,49,53,54	146149	24	22379	139226	108625	28	43	3.73	37.38	88.95	332.80	6	241346	7	2	1	1
3241	2,4,3,6,9,11,13,15,23,27,28,31,30,32,46,47,50,54	168761	32	76660	137740	110916	34	53	2.94	43.56	114.25	358.08	5	376439	18	2	0	5
3242	2,4,3,6,9,11,13,15,23,27,28,31,30,32,46,49,53,54	168377	31	76028	137356	110532	32	52	3.31	41.65	111.09	362.48	6	374161	18	2	0	5
3243	2,4,3,6,9,11,13,15,23,27,28,31,30,32,48,51	163970	29	100351	132948	84229	34	55	2.82	40.84	108.52	348.64	5	406643	18	2	0	5
3244	2,4,3,6,9,11,13,15,23,27,28,31,30,32,48,52,53,54	161095	29	88771	130074	91463	32	54	2.94	41.24	108.52	339.94	4	375644	18	2	0	5
3245	2,4,3,6,9,11,13,15,23,27,28,31,33,37,40,41,44,55	152117	25	46596	137711	109676	29	43	3.24	37.29	99.38	334.71	5	277179	7	2	0	1
3246	2,4,3,6,9,11,13,15,23,27,28,31,33,37,40,41,45,55	167101	29	73915	145285	103059	34	48	3.64	41.64	119.43	353.97	5	333182	7	2	0	1
3247	2,4,3,6,9,11,13,15,23,27,28,31,33,37,40,43,47,46,48,51	158677	29	62046	151067	93283	32	48	3.24	35.41	96.33	365.55	7	298645	7	2	0	1
3248	2,4,3,6,9,11,13,15,23,27,28,31,33,37,40,43,47,46,48,52,53,54	155802	29	50466	148193	100517	30	47	3.36	35.81	96.33	356.86	6	267645	7	2	0	1
3249	2,4,3,6,9,11,13,15,23,27,28,31,33,37,40,43,47,49,53,54	147627	30	22266	140017	111982	30	43	3.73	36.22	98.90	326.76	6	243900	7	2	0	1
3250	2,4,3,6,9,11,13,15,23,27,28,31,33,37,40,43,50,54	146748	28	21635	139138	111103	30	44	3.36	38.13	99.98	320.17	5	241126	7	2	0	1
3251	2,4,3,6,9,11,13,15,23,27,28,31,33,37,42,46,48,51	157510	26	60839	150476	92692	30	48	3.24	35.41	95.52	364.55	7	293928	7	2	0	1
3252	2,4,3,6,9,11,13,15,23,27,28,31,33,37,42,46,48,52,53,54	154636	26	49259	147601	99926	28	47	3.36	35.81	95.52	355.86	6	262929	7	2	0	1
3253	2,4,3,6,9,11,13,15,23,27,28,31,33,37,42,47,50,54	146844	27	21691	139810	111775	30	44	3.36	38.13	101.25	320.78	5	241463	7	2	0	1
3254	2,4,3,6,9,11,13,15,23,27,28,31,33,37,42,49,53,54	146460	26	21060	139426	111391	28	43	3.73	36.22	98.09	325.76	6	239184	7	2	0	1
3255	2,4,3,6,9,11,13,15,23,27,28,34,35,37,40,41,44,55	151867	25	46795	137874	114493	29	42	3.24	38.28	98.33	334.02	5	274333	7	2	0	1
3256	2,4,3,6,9,11,13,15,23,27,28,34,35,37,40,41,45,55	166851	29	74115	145447	107876	34	47	3.64	42.63	118.38	353.28	5	330335	7	2	0	1
3257	2,4,3,6,9,11,13,15,23,27,28,34,35,37,40,43,47,46,48,51	158426	29	62246	151230	98100	32	47	3.24	36.40	95.29	364.86	7	295798	7	2	0	1
3258	2,4,3,6,9,11,13,15,23,27,28,34,35,37,40,43,47,46,48,52,53,54	155552	29	50666	148355	105334	30	46	3.36	36.80	95.29	356.17	6	264799	7	2	0	1
3259	2,4,3,6,9,11,13,15,23,27,28,34,35,37,40,43,47,49,53,54	147376	30	22466	140180	116799	30	42	3.73	37.21	97.86	326.07	6	241053	7	2	0	1
3260	2,4,3,6,9,11,13,15,23,27,28,34,35,37,40,43,50,54	146497	28	21835	139301	115920	30	43	3.36	39.12	98.94	319.48	5	238279	7	2	0	1
3261	2,4,3,6,9,11,13,15,23,27,28,34,35,37,42,46,48,51	157259	26	61039	150638	97508	30	47	3.24	36.40	94.47	363.86	7	291081	7	2	0	1
3262	2,4,3,6,9,11,13,15,23,27,28,34,35,37,42,46,48,52,53,54	154385	26	49459	147764	104743	28	46	3.36	36.80	94.47	355.17	6	260082	7	2	0	1
3263	2,4,3,6,9,11,13,15,23,27,28,34,35,37,42,47,50,54	146594	27	21891	139973	116592	30	43	3.36	39.12	100.21	320.09	5	238616	7	2	0	1
3264	2,4,3,6,9,11,13,15,23,27,28,34,35,37,42,49,53,54	146210	26	21259	139589	116208	28	42	3.73	37.21	97.05	325.07	6	236337	7	2	0	1

Westar Energy- JEC to East Manhattan
345/230 kV Transmission Line Project
Table F-1: Route Data for All Routes

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
3265	2,4,3,6,9,11,13,15,23,27,28,34,36,39,41,40,42,46,48,51	169006	29	97699	152538	89191	30	50	3.34	36.30	143.31	334.77	7	357744	7	2	0	1
3266	2,4,3,6,9,11,13,15,23,27,28,34,36,39,41,40,42,46,48,52,53,54	166132	29	86119	149664	96425	28	49	3.46	36.70	143.31	326.08	6	326745	7	2	0	1
3267	2,4,3,6,9,11,13,15,23,27,28,34,36,39,41,40,42,47,50,54	158340	30	58551	141873	108274	30	46	3.46	39.02	149.05	291.00	5	305279	7	2	0	1
3268	2,4,3,6,9,11,13,15,23,27,28,34,36,39,41,40,42,49,53,54	157956	29	57919	141489	107890	28	45	3.83	37.11	145.89	295.98	6	303000	7	2	0	1
3269	2,4,3,6,9,11,13,15,23,27,28,34,36,39,41,43,47,46,48,51	169022	30	97755	153130	89782	30	50	3.34	36.30	144.13	334.91	7	358000	7	2	0	1
3270	2,4,3,6,9,11,13,15,23,27,28,34,36,39,41,43,47,46,48,52,53,54	166148	30	86175	150255	97016	28	49	3.46	36.70	144.13	326.22	6	327001	7	2	0	1
3271	2,4,3,6,9,11,13,15,23,27,28,34,36,39,41,43,47,49,53,54	157973	31	57976	142080	108481	28	45	3.83	37.11	146.70	296.12	6	303256	7	2	0	1
3272	2,4,3,6,9,11,13,15,23,27,28,34,36,39,41,43,50,54	157093	29	57344	141201	107602	28	46	3.46	39.02	147.78	289.53	5	300482	7	2	0	1
3273	2,4,3,6,9,11,13,15,23,27,28,34,36,39,44,55	148869	24	68711	139773	106175	27	41	3.34	38.19	147.17	285.38	5	296457	7	2	0	1
3274	2,4,3,6,9,11,13,15,23,27,28,34,36,39,45,55	163853	28	96031	147347	99558	32	46	3.74	42.53	167.22	304.64	5	352459	7	2	0	1
3275	2,4,3,6,9,11,13,15,23,27,28,34,38,40,42,46,48,51	157607	26	61001	150411	107167	31	47	3.49	37.46	94.77	362.78	7	291584	7	2	0	6
3276	2,4,3,6,9,11,13,15,23,27,28,34,38,40,42,46,48,52,53,54	154733	26	49421	147537	114401	29	46	3.62	37.86	94.77	354.09	6	260585	7	2	0	6
3277	2,4,3,6,9,11,13,15,23,27,28,34,38,40,42,47,50,54	146942	27	21853	139745	126250	31	43	3.62	40.18	100.50	319.01	5	239119	7	2	0	6
3278	2,4,3,6,9,11,13,15,23,27,28,34,38,40,42,49,53,54	146558	26	21222	139361	125866	29	42	3.99	38.27	97.34	323.99	6	236840	7	2	0	6
3279	2,4,3,6,9,11,13,15,23,27,28,34,38,41,44,55	151064	23	45607	137646	124151	28	42	3.49	39.35	98.62	331.93	5	270375	7	2	0	6
3280	2,4,3,6,9,11,13,15,23,27,28,34,38,41,45,55	166048	27	72927	145220	117535	33	47	3.90	43.69	118.68	351.19	5	326377	7	2	0	6
3281	2,4,3,6,9,11,13,15,23,27,28,34,38,43,47,46,48,51	157623	25	61058	151002	107758	31	47	3.49	37.46	95.58	362.93	7	291840	7	2	0	6
3282	2,4,3,6,9,11,13,15,23,27,28,34,38,43,47,46,48,52,53,54	154749	25	49478	148128	114992	29	46	3.62	37.86	95.58	354.24	6	260841	7	2	0	6
3283	2,4,3,6,9,11,13,15,23,27,28,34,38,43,47,49,53,54	146574	26	21278	139953	126457	29	42	3.99	38.27	98.15	324.14	6	237096	7	2	0	6
3284	2,4,3,6,9,11,13,15,23,27,28,34,38,43,50,54	145694	24	20646	139073	125578	29	43	3.62	40.18	99.23	317.54	5	234322	7	2	0	6
3285	2,4,3,6,9,11,13,16,18,19,22,24,29,36,35,37,40,41,44,55	166337	29	84737	139650	103439	31	47	2.45	38.32	95.30	360.04	5	383264	49.5	2	0	1
3286	2,4,3,6,9,11,13,16,18,19,22,24,29,36,35,37,40,41,45,55	181320	33	112056	147224	96822	36	52	2.85	42.67	115.36	379.29	5	439266	49.5	2	0	1
3287	2,4,3,6,9,11,13,16,18,19,22,24,29,36,35,37,40,43,47,46,48,51	172896	33	100187	153006	87046	34	52	2.45	36.44	92.26	390.88	7	404729	49.5	2	0	1
3288	2,4,3,6,9,11,13,16,18,19,22,24,29,36,35,37,40,43,47,46,48,52,53,54	170021	33	88607	150132	94280	32	51	2.57	36.84	92.26	382.19	6	373730	49.5	2	0	1
3289	2,4,3,6,9,11,13,16,18,19,22,24,29,36,35,37,40,43,47,49,53,54	161846	34	60407	141957	105745	32	47	2.94	37.25	94.83	352.09	6	349984	49.5	2	0	1
3290	2,4,3,6,9,11,13,16,18,19,22,24,29,36,35,37,40,43,50,54	160967	32	59776	141078	104866	32	48	2.57	39.16	95.91	345.49	5	347210	49.5	2	0	1
3291	2,4,3,6,9,11,13,16,18,19,22,24,29,36,35,37,42,46,48,51	171729	30	98980	152415	86455	32	52	2.45	36.44	91.45	389.88	7	400012	49.5	2	0	1
3292	2,4,3,6,9,11,13,16,18,19,22,24,29,36,35,37,42,46,48,52,53,54	168855	30	87400	149541	93689	30	51	2.57	36.84	91.45	381.19	6	369013	49.5	2	0	1
3293	2,4,3,6,9,11,13,16,18,19,22,24,29,36,35,37,42,47,50,54	161063	31	59832	141749	105538	32	48	2.57	39.16	97.18	346.11	5	347547	49.5	2	0	1
3294	2,4,3,6,9,11,13,16,18,19,22,24,29,36,35,37,42,49,53,54	160680	30	59201	141365	105154	30	47	2.94	37.25	94.02	351.09	6	345268	49.5	2	0	1
3295	2,4,3,6,9,11,13,16,18,19,22,24,29,36,38,40,42,46,48,51	172077	31	98943	152188	96113	33	52	2.71	37.50	91.74	388.77	7	400515	49.5	2	0	6
3296	2,4,3,6,9,11,13,16,18,19,22,24,29,36,38,40,42,46,48,52,53,54	169203	31	87362	149313	103347	31	51	2.83	37.90	91.74	380.08	6	369516	49.5	2	0	6
3297	2,4,3,6,9,11,13,16,18,19,22,24,29,36,38,40,42,47,50,54	161411	32	59795	141522	115196	33	48	2.83	40.22	97.47	345.00	5	348050	49.5	2	0	6
3298	2,4,3,6,9,11,13,16,18,19,22,24,29,36,38,40,42,49,53,54	161027	31	59163	141138	114813	31	47	3.20	38.31	94.31	349.98	6	345771	49.5	2	0	6
3299	2,4,3,6,9,11,13,16,18,19,22,24,29,36,38,41,44,55	165534	28	83548	139423	113097	30	47	2.71	39.38	95.60	357.92	5	379306	49.5	2	0	6
3300	2,4,3,6,9,11,13,16,18,19,22,24,29,36,38,41,45,55	180518	32	110868	146997	106481	35	52	3.11	43.73	115.65	377.17	5	435308	49.5	2	0	6
3301	2,4,3,6,9,11,13,16,18,19,22,24,29,36,38,43,47,46,48,51	172093	30	98999	152779	96705	33	52	2.71	37.50	92.55	388.91	7	400771	49.5	2	0	6
3302	2,4,3,6,9,11,13,16,18,19,22,24,29,36,38,43,47,46,48,52,53,54	169219	30	87419	149905	103939	31	51	2.83	37.90	92.55	380.22	6	369772	49.5	2	0	6
3303	2,4,3,6,9,11,13,16,18,19,22,24,29,36,38,43,47,49,53,54	161043	31	59219	141729	115404	31	47	3.20	38.31	95.12	350.12	6	346027	49.5	2	0	6
3304	2,4,3,6,9,11,13,16,18,19,22,24,29,36,38,43,50,54	160164	29	58588	140850	114525	31	48	2.83	40.22	96.21	343.53	5	343253	49.5	2	0	6
3305	2,4,3,6,9,11,13,16,18,19,22,24,29,39,41,40,42,46,48,51	173848	30	126012	149636	78137	30	55	2.55	36.34	124.44	354.18	7	431120	49.5	2	0	1
3306	2,4,3,6,9,11,13,16,18,19,22,24,29,39,41,40,42,46,48,52,53,54	170973	30	114432	146762	85371	28	54	2.67	36.74	124.44	345.49	6	400121	49.5	2	0	1
3307	2,4,3,6,9,11,13,16,18,19,22,24,29,39,41,40,42,47,50,54	163182	31	86864	138970	97220	30	51	2.67	39.06	130.17	310.41	5	378654	49.5	2	0	1
3308	2,4,3,6,9,11,13,16,18,19,22,24,29,39,41,40,42,49,53,54	162798	30	86232	138586	96836	28	50	3.04	37.15	127.01	315.39	6	376375	49.5	2	0	1
3309	2,4,3,6,9,11,13,16,18,19,22,24,29,39,41,43,47,46,48,51	173864	31	126069	150227	78728	30	55	2.55	36.34	125.25	354.33	7	431375	49.5	2	0	1
3310	2,4,3,6,9,11,13,16,18,19,22,24,29,39,41,43,47,46,48,52,53,54	170989	31	114488	147353	85963	28	54	2.67	36.74	125.25	345.64	6	400376	49.5	2	0	1
3311	2,4,3,6,9,11,13,16,18,19,22,24,29,39,41,43,47,49,53,54	162814	32	86289	139178	97428	28	50	3.04	37.15	127.82	315.54	6	376631	49.5	2	0	1
3312	2,4,3,6,9,11,13,16,18,19,22,24,29,39,41,43,50,54	161935	30	85657	138299	96548	28	51	2.67	39.06	128.91	308.94	5	373857	49.5	2	0	1
3313	2,4,3,6,9,11,13,16,18,19,22,24,29,39,44,55	153711	25	97024	136871	95121	27	46	2.55	38.22	128.30	304.79	5	369832	49.5	2	0	1
3314	2,4,3,6,9,11,13,16,18,19,22,24,29,39,45,55	168695	29	124344	144445	88505	32	51	2.95	42.57	148.35	324.05	5	425834	49.5	2	0	1
3315	2,4,3,6,9,11,13,16,18,19,22,25,29,36,35,37,40,41,44,55	164444	28	82844	136430	107919	31	48	2.46	36.88	97.03	350.07	5	379536	50	2	0	1

Table F-1: Route Data for All Routes

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
3316	2,4,3,6,9,11,13,16,18,19,22,25,29,36,35,37,40,41,45,55	179428	32	110164	144004	101302	36	53	2.87	41.23	117.08	369.33	5	435538	50	2	0	1
3317	2,4,3,6,9,11,13,16,18,19,22,25,29,36,35,37,40,43,47,46,48,51	171003	32	98295	149786	91526	34	53	2.46	35.00	93.98	380.91	7	401001	50	2	0	1
3318	2,4,3,6,9,11,13,16,18,19,22,25,29,36,35,37,40,43,47,46,48,52,53,54	168129	32	86715	146912	98760	32	52	2.59	35.40	93.98	372.22	6	370002	50	2	0	1
3319	2,4,3,6,9,11,13,16,18,19,22,25,29,36,35,37,40,43,47,49,53,54	159954	33	58515	138736	110225	32	48	2.96	35.81	96.56	342.12	6	346257	50	2	0	1
3320	2,4,3,6,9,11,13,16,18,19,22,25,29,36,35,37,40,43,50,54	159074	31	57884	137857	109346	32	49	2.59	37.72	97.64	335.53	5	343482	50	2	0	1
3321	2,4,3,6,9,11,13,16,18,19,22,25,29,36,35,37,42,46,48,51	169837	29	97088	149195	90935	32	53	2.46	35.00	93.17	379.91	7	396284	50	2	0	1
3322	2,4,3,6,9,11,13,16,18,19,22,25,29,36,35,37,42,46,48,52,53,54	166962	29	85508	146320	98169	30	52	2.59	35.40	93.17	371.22	6	365285	50	2	0	1
3323	2,4,3,6,9,11,13,16,18,19,22,25,29,36,35,37,42,47,50,54	159171	30	57940	138529	110018	32	49	2.59	37.72	98.91	336.14	5	343819	50	2	0	1
3324	2,4,3,6,9,11,13,16,18,19,22,25,29,36,35,37,42,49,53,54	158787	29	57308	138145	109634	30	48	2.96	35.81	95.74	341.12	6	341540	50	2	0	1
3325	2,4,3,6,9,11,13,16,18,19,22,25,29,36,38,40,42,46,48,51	170185	30	97050	148967	100593	33	53	2.72	36.06	93.46	378.81	7	396787	50	2	0	6
3326	2,4,3,6,9,11,13,16,18,19,22,25,29,36,38,40,42,46,48,52,53,54	167310	30	85470	146093	107827	31	52	2.85	36.46	93.46	370.11	6	365788	50	2	0	6
3327	2,4,3,6,9,11,13,16,18,19,22,25,29,36,38,40,42,47,50,54	159519	31	57902	138302	119676	33	49	2.85	38.78	99.20	335.03	5	344322	50	2	0	6
3328	2,4,3,6,9,11,13,16,18,19,22,25,29,36,38,40,42,49,53,54	159135	30	57271	137918	119292	31	48	3.21	36.87	96.04	340.02	6	342043	50	2	0	6
3329	2,4,3,6,9,11,13,16,18,19,22,25,29,36,38,41,44,55	163642	27	81656	136203	117577	30	48	2.72	37.94	97.32	347.95	5	375578	50	2	0	6
3330	2,4,3,6,9,11,13,16,18,19,22,25,29,36,38,41,45,55	178625	31	108976	143776	110961	35	53	3.13	42.29	117.37	367.21	5	431580	50	2	0	6
3331	2,4,3,6,9,11,13,16,18,19,22,25,29,36,38,43,47,46,48,51	170201	29	97107	149559	101184	33	53	2.72	36.06	94.28	378.95	7	397043	50	2	0	6
3332	2,4,3,6,9,11,13,16,18,19,22,25,29,36,38,43,47,46,48,52,53,54	167326	29	85527	146684	108419	31	52	2.85	36.46	94.28	370.26	6	366044	50	2	0	6
3333	2,4,3,6,9,11,13,16,18,19,22,25,29,36,38,43,47,49,53,54	159151	30	57327	138509	119884	31	48	3.21	36.87	96.85	340.16	6	342299	50	2	0	6
3334	2,4,3,6,9,11,13,16,18,19,22,25,29,36,38,43,50,54	158272	28	56695	137630	119004	31	49	2.85	38.78	97.93	333.57	5	339525	50	2	0	6
3335	2,4,3,6,9,11,13,16,18,19,22,25,29,39,41,40,42,46,48,51	171955	29	124120	146416	82617	30	56	2.56	34.90	126.16	344.22	7	427392	50	2	0	1
3336	2,4,3,6,9,11,13,16,18,19,22,25,29,39,41,40,42,46,48,52,53,54	169081	29	112540	143541	89851	28	55	2.69	35.30	126.16	335.53	6	396393	50	2	0	1
3337	2,4,3,6,9,11,13,16,18,19,22,25,29,39,41,40,42,47,50,54	161290	30	84972	135750	101700	30	52	2.69	37.62	131.90	300.45	5	374926	50	2	0	1
3338	2,4,3,6,9,11,13,16,18,19,22,25,29,39,41,40,42,49,53,54	160906	29	84340	135366	101316	28	51	3.06	35.71	128.74	305.43	6	372647	50	2	0	1
3339	2,4,3,6,9,11,13,16,18,19,22,25,29,39,41,43,47,46,48,51	171971	30	124176	147007	83208	30	56	2.56	34.90	126.98	344.36	7	427648	50	2	0	1
3340	2,4,3,6,9,11,13,16,18,19,22,25,29,39,41,43,47,46,48,52,53,54	169097	30	112596	144133	90442	28	55	2.69	35.30	126.98	335.67	6	396649	50	2	0	1
3341	2,4,3,6,9,11,13,16,18,19,22,25,29,39,41,43,47,49,53,54	160922	31	84397	135957	101907	28	51	3.06	35.71	129.55	305.57	6	372903	50	2	0	1
3342	2,4,3,6,9,11,13,16,18,19,22,25,29,39,41,43,50,54	160043	29	83765	135078	101028	28	52	2.69	37.62	130.63	298.98	5	370129	50	2	0	1
3343	2,4,3,6,9,11,13,16,18,19,22,25,29,39,44,55	151818	24	95132	133651	99601	27	47	2.56	36.78	130.02	294.83	5	366104	50	2	0	1
3344	2,4,3,6,9,11,13,16,18,19,22,25,29,39,45,55	166802	28	122451	141225	92985	32	52	2.97	41.13	150.07	314.09	5	422107	50	2	0	1
3345	2,4,3,6,9,11,13,16,18,21,27,26,30,32,46,47,50,54	169187	35	76919	141319	112317	36	55	2.41	43.71	94.12	382.60	5	382003	30.5	2	1	5
3346	2,4,3,6,9,11,13,16,18,21,27,26,30,32,46,49,53,54	168803	34	76288	140935	111933	34	54	2.77	41.80	90.96	386.99	6	379725	30.5	2	1	5
3347	2,4,3,6,9,11,13,16,18,21,27,26,30,32,48,51	164396	32	100610	136527	85630	36	57	2.28	40.99	88.39	373.15	5	412207	30.5	2	1	5
3348	2,4,3,6,9,11,13,16,18,21,27,26,30,32,48,52,53,54	161522	32	89030	133653	92864	34	56	2.41	41.39	88.39	364.46	4	381208	30.5	2	1	5
3349	2,4,3,6,9,11,13,16,18,21,27,26,31,34,35,37,40,41,44,55	153120	30	47881	141453	115893	31	44	2.70	38.44	78.82	360.71	5	284029	19.5	2	1	1
3350	2,4,3,6,9,11,13,16,18,21,27,26,31,34,35,37,40,41,45,55	168103	34	75201	149026	109277	36	49	3.11	42.79	98.88	379.97	5	340032	19.5	2	1	1
3351	2,4,3,6,9,11,13,16,18,21,27,26,31,34,35,37,40,43,47,46,48,51	159679	34	63332	154809	99501	34	49	2.70	36.56	75.78	391.55	7	305494	19.5	2	1	1
3352	2,4,3,6,9,11,13,16,18,21,27,26,31,34,35,37,40,43,47,46,48,52,53,54	156804	34	51752	151934	106735	32	48	2.82	36.96	75.78	382.86	6	274495	19.5	2	1	1
3353	2,4,3,6,9,11,13,16,18,21,27,26,31,34,35,37,40,43,47,49,53,54	148629	35	23552	143759	118200	32	44	3.19	37.37	78.35	352.76	6	250750	19.5	2	1	1
3354	2,4,3,6,9,11,13,16,18,21,27,26,31,34,35,37,40,43,50,54	147750	33	22920	142880	117321	32	45	2.82	39.28	79.43	346.17	5	247976	19.5	2	1	1
3355	2,4,3,6,9,11,13,16,18,21,27,26,31,34,35,37,42,46,48,51	158512	31	62125	154217	98909	32	49	2.70	36.56	74.97	390.55	7	300778	19.5	2	1	1
3356	2,4,3,6,9,11,13,16,18,21,27,26,31,34,35,37,42,46,48,52,53,54	155638	31	50545	151343	106143	30	48	2.82	36.96	74.97	381.86	6	269779	19.5	2	1	1
3357	2,4,3,6,9,11,13,16,18,21,27,26,31,34,35,37,42,47,50,54	147847	32	22977	143552	117992	32	45	2.82	39.28	80.70	346.78	5	248312	19.5	2	1	1
3358	2,4,3,6,9,11,13,16,18,21,27,26,31,34,35,37,42,49,53,54	147463	31	22345	143168	117608	30	44	3.19	37.37	77.54	351.76	6	246034	19.5	2	1	1
3359	2,4,3,6,9,11,13,16,18,21,27,26,31,34,36,39,41,40,42,46,48,51	170259	34	98785	156117	90592	32	52	2.80	36.46	123.81	361.46	7	367441	19.5	2	1	1
3360	2,4,3,6,9,11,13,16,18,21,27,26,31,34,36,39,41,40,42,46,48,52,53,54	167384	34	87205	153243	97826	30	51	2.93	36.86	123.81	352.77	6	336442	19.5	2	1	1
3361	2,4,3,6,9,11,13,16,18,21,27,26,31,34,36,39,41,40,42,47,50,54	159593	35	59637	145451	109675	32	48	2.93	39.18	129.54	317.69	5	314975	19.5	2	1	1
3362	2,4,3,6,9,11,13,16,18,21,27,26,31,34,36,39,41,40,42,49,53,54	159209	34	59005	145068	109291	30	47	3.29	37.27	126.38	322.67	6	312697	19.5	2	1	1
3363	2,4,3,6,9,11,13,16,18,21,27,26,31,34,36,39,41,43,47,46,48,51	170275	35	98841	156708	91183	32	52	2.80	36.46	124.62	361.60	7	367697	19.5	2	1	1
3364	2,4,3,6,9,11,13,16,18,21,27,26,31,34,36,39,41,43,47,46,48,52,53,54	167401	35	87261	153834	98417	30	51	2.93	36.86	124.62	352.91	6	336698	19.5	2	1	1
3365	2,4,3,6,9,11,13,16,18,21,27,26,31,34,36,39,41,43,47,49,53,54	159225	36	59062	145659	109882	30	47	3.29	37.27	127.19	322.81	6	312952	19.5	2	1	1
3366	2,4,3,6,9,11,13,16,18,21,27,26,31,34,36,39,41,43,50,54	158346	34	58430	144780	109003	30	48	2.93	39.18	128.27	316.22	5	310178	19.5	2	1	1

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
3367	2,4,3,6,9,11,13,16,18,21,27,26,31,34,36,39,44,55	150122	29	69797	143352	107576	29	43	2.80	38.34	127.66	312.07	5	306153	19.5	2	1	1
3368	2,4,3,6,9,11,13,16,18,21,27,26,31,34,36,39,45,55	165106	33	97117	150926	100959	34	48	3.21	42.69	147.72	331.33	5	362156	19.5	2	1	1
3369	2,4,3,6,9,11,13,16,18,21,27,26,31,34,38,40,42,46,48,51	158860	31	62087	153990	108568	33	49	2.96	37.62	75.26	389.47	7	301281	19.5	2	1	6
3370	2,4,3,6,9,11,13,16,18,21,27,26,31,34,38,40,42,46,48,52,53,54	155986	31	50507	151116	115802	31	48	3.08	38.02	75.26	380.78	6	270282	19.5	2	1	6
3371	2,4,3,6,9,11,13,16,18,21,27,26,31,34,38,40,42,47,50,54	148194	32	22939	143324	127651	33	45	3.08	40.34	80.99	345.70	5	248815	19.5	2	1	6
3372	2,4,3,6,9,11,13,16,18,21,27,26,31,34,38,40,42,49,53,54	147810	31	22308	142940	127267	31	44	3.45	38.43	77.83	350.68	6	246537	19.5	2	1	6
3373	2,4,3,6,9,11,13,16,18,21,27,26,31,34,38,41,44,55	152317	28	46693	141225	125552	30	44	2.96	39.50	79.11	358.62	5	280072	19.5	2	1	6
3374	2,4,3,6,9,11,13,16,18,21,27,26,31,34,38,41,45,55	167301	32	74013	148799	118935	35	49	3.36	43.85	99.17	377.87	5	336074	19.5	2	1	6
3375	2,4,3,6,9,11,13,16,18,21,27,26,31,34,38,43,47,46,48,51	158876	30	62144	154581	109159	33	49	2.96	37.62	76.07	389.62	7	301537	19.5	2	1	6
3376	2,4,3,6,9,11,13,16,18,21,27,26,31,34,38,43,47,46,48,52,53,54	156002	30	50564	151707	116393	31	48	3.08	38.02	76.07	380.93	6	270538	19.5	2	1	6
3377	2,4,3,6,9,11,13,16,18,21,27,26,31,34,38,43,47,49,53,54	147827	31	22364	143532	127858	31	44	3.45	38.43	78.64	350.83	6	246793	19.5	2	1	6
3378	2,4,3,6,9,11,13,16,18,21,27,26,31,34,38,43,50,54	146947	29	21732	142652	126979	31	45	3.08	40.34	79.72	344.23	5	244019	19.5	2	1	6
3379	2,4,3,6,9,11,13,16,18,21,27,26,33,37,40,41,44,55	152544	26	46855	141290	111077	31	45	2.70	37.45	79.25	359.28	5	282743	19.5	2	1	1
3380	2,4,3,6,9,11,13,16,18,21,27,26,33,37,40,41,45,55	167527	30	74175	148864	104460	36	50	3.11	41.80	99.30	378.54	5	338746	19.5	2	1	1
3381	2,4,3,6,9,11,13,16,18,21,27,26,33,37,40,43,47,46,48,51	159103	30	62306	154646	94684	34	50	2.70	35.57	76.20	390.12	7	304208	19.5	2	1	1
3382	2,4,3,6,9,11,13,16,18,21,27,26,33,37,40,43,47,46,48,52,53,54	156228	30	50725	151772	101918	32	49	2.82	35.97	76.20	381.43	6	273209	19.5	2	1	1
3383	2,4,3,6,9,11,13,16,18,21,27,26,33,37,40,43,47,49,53,54	148053	31	22526	143596	113383	32	45	3.19	36.38	78.78	351.33	6	249464	19.5	2	1	1
3384	2,4,3,6,9,11,13,16,18,21,27,26,33,37,40,43,50,54	147174	29	21894	142717	112504	32	46	2.82	38.29	79.86	344.74	5	246690	19.5	2	1	1
3385	2,4,3,6,9,11,13,16,18,21,27,26,33,37,42,46,48,51	157936	27	61099	154055	94093	32	50	2.70	35.57	75.39	389.12	7	299492	19.5	2	1	1
3386	2,4,3,6,9,11,13,16,18,21,27,26,33,37,42,46,48,52,53,54	155062	27	49519	151180	101327	30	49	2.82	35.97	75.39	380.43	6	268493	19.5	2	1	1
3387	2,4,3,6,9,11,13,16,18,21,27,26,33,37,42,47,50,54	147271	28	21951	143389	113176	32	46	2.82	38.29	81.12	345.35	5	247026	19.5	2	1	1
3388	2,4,3,6,9,11,13,16,18,21,27,26,33,37,42,49,53,54	146887	27	21319	143005	112792	30	45	3.19	36.38	77.96	350.33	6	244748	19.5	2	1	1
3389	2,4,3,6,9,11,13,16,18,21,28,31,30,32,46,47,50,54	168545	33	74646	141519	115083	36	55	2.41	42.55	100.17	375.61	5	376027	30.5	2	0	5
3390	2,4,3,6,9,11,13,16,18,21,28,31,30,32,46,49,53,54	168161	32	74015	141135	114699	34	54	2.77	40.64	97.01	380.01	6	373748	30.5	2	0	5
3391	2,4,3,6,9,11,13,16,18,21,28,31,30,32,48,51	163753	30	98337	136728	88396	36	57	2.28	39.83	94.44	366.17	5	406231	30.5	2	0	5
3392	2,4,3,6,9,11,13,16,18,21,28,31,30,32,48,52,53,54	160879	30	86757	133853	95630	34	56	2.41	40.23	94.44	357.48	4	375232	30.5	2	0	5
3393	2,4,3,6,9,11,13,16,18,21,28,31,33,37,40,41,44,55	151901	26	44582	141490	113843	31	45	2.70	36.29	85.30	352.24	5	276767	19.5	2	0	1
3394	2,4,3,6,9,11,13,16,18,21,28,31,33,37,40,41,45,55	166885	30	71902	149064	107226	36	50	3.11	40.64	105.35	371.50	5	332769	19.5	2	0	1
3395	2,4,3,6,9,11,13,16,18,21,28,31,33,37,40,43,47,46,48,51	158460	30	60033	154846	97450	34	50	2.70	34.41	82.25	383.08	7	298232	19.5	2	0	1
3396	2,4,3,6,9,11,13,16,18,21,28,31,33,37,40,43,47,46,48,52,53,54	155586	30	48452	151972	104684	32	49	2.82	34.81	82.25	374.39	6	267233	19.5	2	0	1
3397	2,4,3,6,9,11,13,16,18,21,28,31,33,37,40,43,47,49,53,54	147411	31	20253	143797	116149	32	45	3.19	35.22	84.83	344.29	6	243488	19.5	2	0	1
3398	2,4,3,6,9,11,13,16,18,21,28,31,33,37,40,43,50,54	146531	29	19621	142917	115270	32	46	2.82	37.13	85.91	337.70	5	240713	19.5	2	0	1
3399	2,4,3,6,9,11,13,16,18,21,28,31,33,37,42,46,48,51	157294	27	58826	154255	96859	32	50	2.70	34.41	81.44	382.08	7	293515	19.5	2	0	1
3400	2,4,3,6,9,11,13,16,18,21,28,31,33,37,42,46,48,52,53,54	154419	27	47246	151380	104093	30	49	2.82	34.81	81.44	373.39	6	262516	19.5	2	0	1
3401	2,4,3,6,9,11,13,16,18,21,28,31,33,37,42,47,50,54	146628	28	19678	143589	115942	32	46	2.82	37.13	87.17	338.31	5	241050	19.5	2	0	1
3402	2,4,3,6,9,11,13,16,18,21,28,31,33,37,42,49,53,54	146244	27	19046	143205	115558	30	45	3.19	35.22	84.01	343.29	6	238771	19.5	2	0	1
3403	2,4,3,6,9,11,13,16,18,21,28,34,35,37,40,41,44,55	151650	26	44782	141653	118659	31	44	2.70	37.28	84.25	351.55	5	273920	19.5	2	0	1
3404	2,4,3,6,9,11,13,16,18,21,28,34,35,37,40,41,45,55	166634	30	72101	149227	112043	36	49	3.11	41.63	104.31	370.81	5	329922	19.5	2	0	1
3405	2,4,3,6,9,11,13,16,18,21,28,34,35,37,40,43,47,46,48,51	158210	30	60232	155009	102267	34	49	2.70	35.40	81.21	382.40	7	295385	19.5	2	0	1
3406	2,4,3,6,9,11,13,16,18,21,28,34,35,37,40,43,47,46,48,52,53,54	155335	30	48652	152135	109501	32	48	2.82	35.80	81.21	373.70	6	264386	19.5	2	0	1
3407	2,4,3,6,9,11,13,16,18,21,28,34,35,37,40,43,47,49,53,54	147160	31	20452	143959	120966	32	44	3.19	36.21	83.78	343.60	6	240641	19.5	2	0	1
3408	2,4,3,6,9,11,13,16,18,21,28,34,35,37,40,43,50,54	146281	29	19821	143080	120087	32	45	2.82	38.12	84.86	337.01	5	237867	19.5	2	0	1
3409	2,4,3,6,9,11,13,16,18,21,28,34,35,37,42,46,48,51	157043	27	59025	154418	101675	32	49	2.70	35.40	80.40	381.39	7	290669	19.5	2	0	1
3410	2,4,3,6,9,11,13,16,18,21,28,34,35,37,42,46,48,52,53,54	154169	27	47445	151543	108910	30	48	2.82	35.80	80.40	372.70	6	259670	19.5	2	0	1
3411	2,4,3,6,9,11,13,16,18,21,28,34,35,37,42,47,50,54	146377	28	19877	143752	120759	32	45	2.82	38.12	86.13	337.62	5	238203	19.5	2	0	1
3412	2,4,3,6,9,11,13,16,18,21,28,34,35,37,42,49,53,54	145994	27	19246	143368	120375	30	44	3.19	36.21	82.97	342.60	6	235924	19.5	2	0	1
3413	2,4,3,6,9,11,13,16,18,21,28,34,36,39,41,40,42,46,48,51	168790	30	95685	156317	93358	32	52	2.80	35.30	129.24	352.30	7	357331	19.5	2	0	1
3414	2,4,3,6,9,11,13,16,18,21,28,34,36,39,41,40,42,46,48,52,53,54	165915	30	84105	153443	100592	30	51	2.93	35.70	129.24	343.61	6	326332	19.5	2	0	1
3415	2,4,3,6,9,11,13,16,18,21,28,34,36,39,41,40,42,47,50,54	158124	31	56537	145652	112441	32	48	2.93	38.02	134.97	308.53	5	304866	19.5	2	0	1
3416	2,4,3,6,9,11,13,16,18,21,28,34,36,39,41,40,42,49,53,54	157740	30	55906	145268	112057	30	47	3.29	36.11	131.81	313.51	6	302587	19.5	2	0	1
3417	2,4,3,6,9,11,13,16,18,21,28,34,36,39,41,43,47,46,48,51	168806	31	95742	156909	93949	32	52	2.80	35.30	130.05	352.44	7	357587	19.5	2	0	1

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
3418	2,4,3,6,9,11,13,16,18,21,28,34,36,39,41,43,47,46,48,52,53,54	165931	31	84162	154034	101183	30	51	2.93	35.70	130.05	343.75	6	326588	19.5	2	0	1
3419	2,4,3,6,9,11,13,16,18,21,28,34,36,39,41,43,47,49,53,54	157756	32	55962	145859	112648	30	47	3.29	36.11	132.62	313.65	6	302843	19.5	2	0	1
3420	2,4,3,6,9,11,13,16,18,21,28,34,36,39,41,43,50,54	156877	30	55330	144980	111769	30	48	2.93	38.02	133.70	307.06	5	300069	19.5	2	0	1
3421	2,4,3,6,9,11,13,16,18,21,28,34,36,39,44,55	148653	25	66697	143553	110342	29	43	2.80	37.18	133.09	302.91	5	296044	19.5	2	0	1
3422	2,4,3,6,9,11,13,16,18,21,28,34,36,39,45,55	163637	29	94017	151126	103725	34	48	3.21	41.53	153.15	322.17	5	352046	19.5	2	0	1
3423	2,4,3,6,9,11,13,16,18,21,28,34,38,40,42,46,48,51	157391	27	58988	154190	111334	33	49	2.96	36.46	80.69	380.31	7	291172	19.5	2	0	6
3424	2,4,3,6,9,11,13,16,18,21,28,34,38,40,42,46,48,52,53,54	154517	27	47407	151316	118568	31	48	3.08	36.86	80.69	371.62	6	260173	19.5	2	0	6
3425	2,4,3,6,9,11,13,16,18,21,28,34,38,40,42,47,50,54	146725	28	19840	143524	130417	33	45	3.08	39.18	86.42	336.54	5	238706	19.5	2	0	6
3426	2,4,3,6,9,11,13,16,18,21,28,34,38,40,42,49,53,54	146341	27	19208	143140	130033	31	44	3.45	37.27	83.26	341.52	6	236427	19.5	2	0	6
3427	2,4,3,6,9,11,13,16,18,21,28,34,38,41,44,55	150848	24	43594	141425	128318	30	44	2.96	38.34	84.55	349.46	5	269962	19.5	2	0	6
3428	2,4,3,6,9,11,13,16,18,21,28,34,38,41,45,55	165832	28	70913	148999	121702	35	49	3.36	42.69	104.60	368.72	5	325965	19.5	2	0	6
3429	2,4,3,6,9,11,13,16,18,21,28,34,38,43,47,46,48,51	157407	26	59044	154781	111925	33	49	2.96	36.46	81.50	380.46	7	291427	19.5	2	0	6
3430	2,4,3,6,9,11,13,16,18,21,28,34,38,43,47,46,48,52,53,54	154533	26	47464	151907	119159	31	48	3.08	36.86	81.50	371.77	6	260428	19.5	2	0	6
3431	2,4,3,6,9,11,13,16,18,21,28,34,38,43,47,49,53,54	146357	27	19264	143732	130624	31	44	3.45	37.27	84.07	341.67	6	236683	19.5	2	0	6
3432	2,4,3,6,9,11,13,16,18,21,28,34,38,43,50,54	145478	25	18633	142853	129745	31	45	3.08	39.18	85.16	335.07	5	233909	19.5	2	0	6
3433	2,4,3,6,9,11,13,16,20,23,26,30,32,46,47,50,54	168412	31	71597	143159	111857	34	53	2.89	45.47	105.10	370.45	5	361093	29	2	1	5
3434	2,4,3,6,9,11,13,16,20,23,26,30,32,46,49,53,54	168028	30	70965	142775	111473	32	52	3.26	43.57	101.94	374.85	6	358814	29	2	1	5
3435	2,4,3,6,9,11,13,16,20,23,26,30,32,48,51	163621	28	95287	138367	85170	34	55	2.77	42.75	99.36	361.00	5	391297	29	2	1	5
3436	2,4,3,6,9,11,13,16,20,23,26,30,32,48,52,53,54	160746	28	83707	135493	92404	32	54	2.89	43.16	99.36	352.31	4	360297	29	2	1	5
3437	2,4,3,6,9,11,13,16,20,23,26,31,34,35,37,40,41,44,55	152344	26	42558	143293	115433	29	42	3.19	40.20	89.80	348.56	5	263119	18	2	1	1
3438	2,4,3,6,9,11,13,16,20,23,26,31,34,35,37,40,41,45,55	167328	30	69878	150866	108817	34	47	3.59	44.55	109.85	367.82	5	319121	18	2	1	1
3439	2,4,3,6,9,11,13,16,20,23,26,31,34,35,37,40,43,47,46,48,51	158904	30	58009	156649	99041	32	47	3.19	38.32	86.75	379.41	7	284584	18	2	1	1
3440	2,4,3,6,9,11,13,16,20,23,26,31,34,35,37,40,43,47,46,48,52,53,54	156029	30	46429	153774	106275	30	46	3.31	38.72	86.75	370.72	6	253585	18	2	1	1
3441	2,4,3,6,9,11,13,16,20,23,26,31,34,35,37,40,43,47,49,53,54	147854	31	18229	145599	117740	30	42	3.68	39.13	89.33	340.62	6	229839	18	2	1	1
3442	2,4,3,6,9,11,13,16,20,23,26,31,34,35,37,40,43,50,54	146975	29	17598	144720	116861	30	43	3.31	41.04	90.41	334.02	5	227065	18	2	1	1
3443	2,4,3,6,9,11,13,16,20,23,26,31,34,35,37,42,46,48,51	157737	27	56802	156057	98449	30	47	3.19	38.32	85.94	378.41	7	279867	18	2	1	1
3444	2,4,3,6,9,11,13,16,20,23,26,31,34,35,37,42,46,48,52,53,54	154863	27	45222	153183	105683	28	46	3.31	38.72	85.94	369.72	6	248868	18	2	1	1
3445	2,4,3,6,9,11,13,16,20,23,26,31,34,35,37,42,47,50,54	147071	28	17654	145392	117533	30	43	3.31	41.04	91.67	334.63	5	227402	18	2	1	1
3446	2,4,3,6,9,11,13,16,20,23,26,31,34,35,37,42,49,53,54	146687	27	17022	145008	117149	28	42	3.68	39.13	88.51	339.62	6	225123	18	2	1	1
3447	2,4,3,6,9,11,13,16,20,23,26,31,34,36,39,41,40,42,46,48,51	169484	30	93462	157957	90132	30	50	3.29	38.22	134.78	349.32	7	346530	18	2	1	1
3448	2,4,3,6,9,11,13,16,20,23,26,31,34,36,39,41,40,42,46,48,52,53,54	166609	30	81882	155083	97366	28	49	3.41	38.62	134.78	340.62	6	315531	18	2	1	1
3449	2,4,3,6,9,11,13,16,20,23,26,31,34,36,39,41,40,42,47,50,54	158818	31	54314	147291	109215	30	46	3.41	40.94	140.51	305.54	5	294065	18	2	1	1
3450	2,4,3,6,9,11,13,16,20,23,26,31,34,36,39,41,40,42,49,53,54	158434	30	53682	146908	108831	28	45	3.78	39.03	137.35	310.53	6	291786	18	2	1	1
3451	2,4,3,6,9,11,13,16,20,23,26,31,34,36,39,41,43,47,46,48,51	169500	31	93518	158548	90723	30	50	3.29	38.22	135.59	349.46	7	346786	18	2	1	1
3452	2,4,3,6,9,11,13,16,20,23,26,31,34,36,39,41,43,47,46,48,52,53,54	166625	31	81938	155674	97957	28	49	3.41	38.62	135.59	340.77	6	315787	18	2	1	1
3453	2,4,3,6,9,11,13,16,20,23,26,31,34,36,39,41,43,47,49,53,54	158450	32	53739	147499	109422	28	45	3.78	39.03	138.17	310.67	6	292042	18	2	1	1
3454	2,4,3,6,9,11,13,16,20,23,26,31,34,36,39,41,43,50,54	157571	30	53107	146620	108543	28	46	3.41	40.94	139.25	304.07	5	289268	18	2	1	1
3455	2,4,3,6,9,11,13,16,20,23,26,31,34,36,39,44,55	149347	25	64474	145192	107116	27	41	3.29	40.10	138.64	299.93	5	285243	18	2	1	1
3456	2,4,3,6,9,11,13,16,20,23,26,31,34,36,39,45,55	164331	29	91794	152766	100499	32	46	3.69	44.45	158.69	319.18	5	341245	18	2	1	1
3457	2,4,3,6,9,11,13,16,20,23,26,31,34,38,40,42,46,48,51	158085	27	56764	155830	108108	31	47	3.44	39.38	86.23	377.33	7	280370	18	2	1	6
3458	2,4,3,6,9,11,13,16,20,23,26,31,34,38,40,42,46,48,52,53,54	155210	27	45184	152956	115342	29	46	3.57	39.78	86.23	368.63	6	249371	18	2	1	6
3459	2,4,3,6,9,11,13,16,20,23,26,31,34,38,40,42,47,50,54	147419	28	17616	145164	127191	31	43	3.57	42.10	91.97	333.55	5	227905	18	2	1	6
3460	2,4,3,6,9,11,13,16,20,23,26,31,34,38,40,42,49,53,54	147035	27	16985	144780	126807	29	42	3.93	40.19	88.80	338.54	6	225626	18	2	1	6
3461	2,4,3,6,9,11,13,16,20,23,26,31,34,38,41,44,55	151542	24	41370	143065	125092	28	42	3.44	41.27	90.09	346.47	5	259161	18	2	1	6
3462	2,4,3,6,9,11,13,16,20,23,26,31,34,38,41,45,55	166526	28	68690	150639	118475	33	47	3.85	45.61	110.14	365.73	5	315163	18	2	1	6
3463	2,4,3,6,9,11,13,16,20,23,26,31,34,38,43,47,46,48,51	158101	26	56821	156421	108699	31	47	3.44	39.38	87.05	377.47	7	280626	18	2	1	6
3464	2,4,3,6,9,11,13,16,20,23,26,31,34,38,43,47,46,48,52,53,54	155227	26	45241	153547	115933	29	46	3.57	39.78	87.05	368.78	6	249627	18	2	1	6
3465	2,4,3,6,9,11,13,16,20,23,26,31,34,38,43,47,49,53,54	147051	27	17041	145372	127398	29	42	3.93	40.19	89.62	338.68	6	225882	18	2	1	6
3466	2,4,3,6,9,11,13,16,20,23,26,31,34,38,43,50,54	146172	25	16410	144492	126519	29	43	3.57	42.10	90.70	332.09	5	223108	18	2	1	6
3467	2,4,3,6,9,11,13,16,20,23,26,33,37,40,41,44,55	151768	22	41532	143130	110617	29	43	3.19	39.21	90.22	347.13	5	261832	18	2	1	1
3468	2,4,3,6,9,11,13,16,20,23,26,33,37,40,41,45,55	166752	26	68852	150704	104000	34	48	3.59	43.56	110.28	366.39	5	317835	18	2	1	1

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
3469	2,4,3,6,9,11,13,16,20,23,26,33,37,40,43,47,46,48,51	158328	26	56983	156486	94224	32	48	3.19	37.33	87.18	377.98	7	283298	18	2	1	1
3470	2,4,3,6,9,11,13,16,20,23,26,33,37,40,43,47,46,48,52,53,54	155453	26	45403	153612	101458	30	47	3.31	37.73	87.18	369.29	6	252299	18	2	1	1
3471	2,4,3,6,9,11,13,16,20,23,26,33,37,40,43,47,49,53,54	147278	27	17203	145436	112923	30	43	3.68	38.14	89.75	339.19	6	228553	18	2	1	1
3472	2,4,3,6,9,11,13,16,20,23,26,33,37,40,43,50,54	146399	25	16571	144557	112044	30	44	3.31	40.05	90.83	332.59	5	225779	18	2	1	1
3473	2,4,3,6,9,11,13,16,20,23,26,33,37,42,46,48,51	157161	23	55776	155895	93633	30	48	3.19	37.33	86.37	376.98	7	278581	18	2	1	1
3474	2,4,3,6,9,11,13,16,20,23,26,33,37,42,46,48,52,53,54	154287	23	44196	153020	100867	28	47	3.31	37.73	86.37	368.29	6	247582	18	2	1	1
3475	2,4,3,6,9,11,13,16,20,23,26,33,37,42,47,50,54	146495	24	16628	145229	112716	30	44	3.31	40.05	92.10	333.21	5	226116	18	2	1	1
3476	2,4,3,6,9,11,13,16,20,23,26,33,37,42,49,53,54	146111	23	15996	144845	112332	28	43	3.68	38.14	88.94	338.19	6	223837	18	2	1	1
3477	2,4,3,6,9,11,13,16,20,23,27,28,31,30,32,46,47,50,54	168723	31	70277	143359	114623	34	53	2.89	44.31	114.24	363.47	5	358930	29	2	0	5
3478	2,4,3,6,9,11,13,16,20,23,27,28,31,30,32,46,49,53,54	168339	30	69645	142975	114239	32	52	3.26	42.40	111.08	367.87	6	356651	29	2	0	5
3479	2,4,3,6,9,11,13,16,20,23,27,28,31,30,32,48,51	163932	28	93968	138567	87936	34	55	2.77	41.59	108.51	354.02	5	389134	29	2	0	5
3480	2,4,3,6,9,11,13,16,20,23,27,28,31,30,32,48,52,53,54	161057	28	82388	135693	95170	32	54	2.89	41.99	108.51	345.33	4	358135	29	2	0	5
3481	2,4,3,6,9,11,13,16,20,23,27,28,31,33,37,40,41,44,55	152079	24	40213	143330	113383	29	43	3.19	38.05	99.37	340.10	5	259670	18	2	0	1
3482	2,4,3,6,9,11,13,16,20,23,27,28,31,33,37,40,41,45,55	167063	28	67532	150904	106767	34	48	3.59	42.40	119.42	359.35	5	315672	18	2	0	1
3483	2,4,3,6,9,11,13,16,20,23,27,28,31,33,37,40,43,47,46,48,51	158639	28	55663	156686	96990	32	48	3.19	36.17	96.32	370.94	7	281135	18	2	0	1
3484	2,4,3,6,9,11,13,16,20,23,27,28,31,33,37,40,43,47,46,48,52,53,54	155764	28	44083	153812	104224	30	47	3.31	36.57	96.32	362.25	6	250136	18	2	0	1
3485	2,4,3,6,9,11,13,16,20,23,27,28,31,33,37,40,43,47,49,53,54	147589	29	15883	145637	115689	30	43	3.68	36.98	98.90	332.15	6	226391	18	2	0	1
3486	2,4,3,6,9,11,13,16,20,23,27,28,31,33,37,40,43,50,54	146710	27	15252	144757	114810	30	44	3.31	38.89	99.98	325.55	5	223617	18	2	0	1
3487	2,4,3,6,9,11,13,16,20,23,27,28,31,33,37,42,46,48,51	157472	25	54456	156095	96399	30	48	3.19	36.17	95.51	369.94	7	276419	18	2	0	1
3488	2,4,3,6,9,11,13,16,20,23,27,28,31,33,37,42,46,48,52,53,54	154598	25	42876	153220	103633	28	47	3.31	36.57	95.51	361.25	6	245420	18	2	0	1
3489	2,4,3,6,9,11,13,16,20,23,27,28,31,33,37,42,47,50,54	146806	26	15308	145429	115482	30	44	3.31	38.89	101.24	326.17	5	223953	18	2	0	1
3490	2,4,3,6,9,11,13,16,20,23,27,28,31,33,37,42,49,53,54	146422	25	14677	145045	115098	28	43	3.68	36.98	98.08	331.15	6	221674	18	2	0	1
3491	2,4,3,6,9,11,13,16,20,23,27,28,34,35,37,40,41,44,55	151829	24	40412	143493	118200	29	42	3.19	39.04	98.32	339.41	5	256823	18	2	0	1
3492	2,4,3,6,9,11,13,16,20,23,27,28,34,35,37,40,41,45,55	166813	28	67732	151067	111583	34	47	3.59	43.39	118.38	358.66	5	312825	18	2	0	1
3493	2,4,3,6,9,11,13,16,20,23,27,28,34,35,37,40,43,47,46,48,51	158388	28	55863	156849	101807	32	47	3.19	37.16	95.28	370.25	7	278288	18	2	0	1
3494	2,4,3,6,9,11,13,16,20,23,27,28,34,35,37,40,43,47,46,48,52,53,54	155514	28	44283	153974	109041	30	46	3.31	37.56	95.28	361.56	6	247289	18	2	0	1
3495	2,4,3,6,9,11,13,16,20,23,27,28,34,35,37,40,43,47,49,53,54	147338	29	16083	145799	120506	30	42	3.68	37.97	97.85	331.46	6	223544	18	2	0	1
3496	2,4,3,6,9,11,13,16,20,23,27,28,34,35,37,40,43,50,54	146459	27	15451	144920	119627	30	43	3.31	39.88	98.93	324.86	5	220770	18	2	0	1
3497	2,4,3,6,9,11,13,16,20,23,27,28,34,35,37,42,46,48,51	157222	25	54656	156258	101216	30	47	3.19	37.16	94.47	369.25	7	273572	18	2	0	1
3498	2,4,3,6,9,11,13,16,20,23,27,28,34,35,37,42,46,48,52,53,54	154347	25	43076	153383	108450	28	46	3.31	37.56	94.47	360.56	6	242573	18	2	0	1
3499	2,4,3,6,9,11,13,16,20,23,27,28,34,35,37,42,47,50,54	146556	26	15508	145592	120299	30	43	3.31	39.88	100.20	325.48	5	221106	18	2	0	1
3500	2,4,3,6,9,11,13,16,20,23,27,28,34,35,37,42,49,53,54	146172	25	14876	145208	119915	28	42	3.68	37.97	97.04	330.46	6	218827	18	2	0	1
3501	2,4,3,6,9,11,13,16,20,23,27,28,34,36,39,41,40,42,46,48,51	168968	28	91316	158157	92898	30	50	3.29	37.06	143.31	340.16	7	340235	18	2	0	1
3502	2,4,3,6,9,11,13,16,20,23,27,28,34,36,39,41,40,42,46,48,52,53,54	166094	28	79736	155283	100132	28	49	3.41	37.46	143.31	331.47	6	309236	18	2	0	1
3503	2,4,3,6,9,11,13,16,20,23,27,28,34,36,39,41,40,42,47,50,54	158302	29	52168	147492	111981	30	46	3.41	39.78	149.04	296.39	5	287769	18	2	0	1
3504	2,4,3,6,9,11,13,16,20,23,27,28,34,36,39,41,40,42,49,53,54	157918	28	51536	147108	111597	28	45	3.78	37.87	145.88	301.37	6	285490	18	2	0	1
3505	2,4,3,6,9,11,13,16,20,23,27,28,34,36,39,41,43,47,46,48,51	168984	29	91372	158749	93489	30	50	3.29	37.06	144.12	340.30	7	340491	18	2	0	1
3506	2,4,3,6,9,11,13,16,20,23,27,28,34,36,39,41,43,47,46,48,52,53,54	166110	29	79792	155874	100723	28	49	3.41	37.46	144.12	331.61	6	309491	18	2	0	1
3507	2,4,3,6,9,11,13,16,20,23,27,28,34,36,39,41,43,47,49,53,54	157935	30	51593	147699	112188	28	45	3.78	37.87	146.69	301.51	6	285746	18	2	0	1
3508	2,4,3,6,9,11,13,16,20,23,27,28,34,36,39,41,43,50,54	157055	28	50961	146820	111309	28	46	3.41	39.78	147.77	294.91	5	282972	18	2	0	1
3509	2,4,3,6,9,11,13,16,20,23,27,28,34,36,39,44,55	148831	23	62328	145393	109882	27	41	3.29	38.94	147.16	290.77	5	278947	18	2	0	1
3510	2,4,3,6,9,11,13,16,20,23,27,28,34,36,39,45,55	163815	27	89648	152966	103266	32	46	3.69	43.29	167.22	310.02	5	334949	18	2	0	1
3511	2,4,3,6,9,11,13,16,20,23,27,28,34,38,40,42,46,48,51	157569	25	54618	156030	110874	31	47	3.44	38.22	94.76	368.17	7	274075	18	2	0	6
3512	2,4,3,6,9,11,13,16,20,23,27,28,34,38,40,42,46,48,52,53,54	154695	25	43038	153156	118108	29	46	3.57	38.62	94.76	359.48	6	243076	18	2	0	6
3513	2,4,3,6,9,11,13,16,20,23,27,28,34,38,40,42,47,50,54	146904	26	15470	145364	129957	31	43	3.57	40.94	100.49	324.40	5	221609	18	2	0	6
3514	2,4,3,6,9,11,13,16,20,23,27,28,34,38,40,42,49,53,54	146520	25	14839	144980	129573	29	42	3.93	39.03	97.33	329.38	6	219330	18	2	0	6
3515	2,4,3,6,9,11,13,16,20,23,27,28,34,38,41,44,55	151026	22	39224	143265	127858	28	42	3.44	40.10	98.62	337.31	5	252865	18	2	0	6
3516	2,4,3,6,9,11,13,16,20,23,27,28,34,38,41,45,55	166010	26	66544	150839	121242	33	47	3.85	44.45	118.67	356.57	5	308868	18	2	0	6
3517	2,4,3,6,9,11,13,16,20,23,27,28,34,38,43,47,46,48,51	157585	24	54675	156621	111465	31	47	3.44	38.22	95.57	368.31	7	274331	18	2	0	6
3518	2,4,3,6,9,11,13,16,20,23,27,28,34,38,43,47,46,48,52,53,54	154711	24	43095	153747	118700	29	46	3.57	38.62	95.57	359.62	6	243332	18	2	0	6
3519	2,4,3,6,9,11,13,16,20,23,27,28,34,38,43,47,49,53,54	146536	25	14895	145572	130165	29	42	3.93	39.03	98.14	329.52	6	219586	18	2	0	6

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
3520	2,4,3,6,9,11,13,16,20,23,27,28,34,38,43,50,54	145657	23	14263	144693	129285	29	43	3.57	40.94	99.22	322.93	5	216812	18	2	0	6
3521	2,4,3,6,9,11,17,18,20,23,26,30,32,46,47,50,54	168476	31	71661	142858	107946	34	54	2.89	45.47	105.10	369.80	5	361888	19.5	2	1	5
3522	2,4,3,6,9,11,17,18,20,23,26,30,32,46,49,53,54	168092	30	71030	142474	107562	32	53	3.26	43.57	101.94	374.20	6	359609	19.5	2	1	5
3523	2,4,3,6,9,11,17,18,20,23,26,30,32,48,51	163684	28	95352	138066	81259	34	56	2.77	42.75	99.36	360.35	5	392092	19.5	2	1	5
3524	2,4,3,6,9,11,17,18,20,23,26,30,32,48,52,53,54	160810	28	83772	135192	88493	32	55	2.89	43.16	99.36	351.66	4	361093	19.5	2	1	5
3525	2,4,3,6,9,11,17,18,20,23,26,31,34,35,37,40,41,44,55	152408	26	42623	142991	111522	29	43	3.19	40.20	89.80	347.91	5	263914	8.5	2	1	1
3526	2,4,3,6,9,11,17,18,20,23,26,31,34,35,37,40,41,45,55	167392	30	69943	150565	104906	34	48	3.59	44.55	109.85	367.17	5	319916	8.5	2	1	1
3527	2,4,3,6,9,11,17,18,20,23,26,31,34,35,37,40,43,47,46,48,51	158967	30	58074	156347	95129	32	48	3.19	38.32	86.75	378.76	7	285379	8.5	2	1	1
3528	2,4,3,6,9,11,17,18,20,23,26,31,34,35,37,40,43,47,46,48,52,53,54	156093	30	46494	153473	102363	30	47	3.31	38.72	86.75	370.07	6	254380	8.5	2	1	1
3529	2,4,3,6,9,11,17,18,20,23,26,31,34,35,37,40,43,47,49,53,54	147918	31	18294	145298	113829	30	43	3.68	39.13	89.33	339.97	6	230634	8.5	2	1	1
3530	2,4,3,6,9,11,17,18,20,23,26,31,34,35,37,40,43,50,54	147038	29	17662	144419	112949	30	44	3.31	41.04	90.41	333.37	5	227860	8.5	2	1	1
3531	2,4,3,6,9,11,17,18,20,23,26,31,34,35,37,42,46,48,51	157801	27	56867	155756	94538	30	48	3.19	38.32	85.94	377.76	7	280662	8.5	2	1	1
3532	2,4,3,6,9,11,17,18,20,23,26,31,34,35,37,42,46,48,52,53,54	154926	27	45287	152882	101772	28	47	3.31	38.72	85.94	369.07	6	249663	8.5	2	1	1
3533	2,4,3,6,9,11,17,18,20,23,26,31,34,35,37,42,47,50,54	147135	28	17719	145090	113621	30	44	3.31	41.04	91.67	333.98	5	228197	8.5	2	1	1
3534	2,4,3,6,9,11,17,18,20,23,26,31,34,35,37,42,49,53,54	146751	27	17087	144706	113237	28	43	3.68	39.13	88.51	338.97	6	225918	8.5	2	1	1
3535	2,4,3,6,9,11,17,18,20,23,26,31,34,36,39,41,40,42,46,48,51	169547	30	93527	157656	86220	30	51	3.29	38.22	134.78	348.66	7	347325	8.5	2	1	1
3536	2,4,3,6,9,11,17,18,20,23,26,31,34,36,39,41,40,42,46,48,52,53,54	166673	30	81947	154782	93454	28	50	3.41	38.62	134.78	339.97	6	316326	8.5	2	1	1
3537	2,4,3,6,9,11,17,18,20,23,26,31,34,36,39,41,40,42,47,50,54	158882	31	54379	146990	105304	30	47	3.41	40.94	140.51	304.89	5	294860	8.5	2	1	1
3538	2,4,3,6,9,11,17,18,20,23,26,31,34,36,39,41,40,42,49,53,54	158498	30	53747	146606	104920	28	46	3.78	39.03	137.35	309.87	6	292581	8.5	2	1	1
3539	2,4,3,6,9,11,17,18,20,23,26,31,34,36,39,41,43,47,46,48,51	169563	31	93583	158247	86812	30	51	3.29	38.22	135.59	348.81	7	347581	8.5	2	1	1
3540	2,4,3,6,9,11,17,18,20,23,26,31,34,36,39,41,43,47,46,48,52,53,54	166689	31	82003	155373	94046	28	50	3.41	38.62	135.59	340.12	6	316582	8.5	2	1	1
3541	2,4,3,6,9,11,17,18,20,23,26,31,34,36,39,41,43,47,49,53,54	158514	32	53804	147198	105511	28	46	3.78	39.03	138.17	310.02	6	292837	8.5	2	1	1
3542	2,4,3,6,9,11,17,18,20,23,26,31,34,36,39,41,43,50,54	157635	30	53172	146318	104632	28	47	3.41	40.94	139.25	303.42	5	290063	8.5	2	1	1
3543	2,4,3,6,9,11,17,18,20,23,26,31,34,36,39,44,55	149410	25	64539	144891	103204	27	42	3.29	40.10	138.64	299.27	5	286038	8.5	2	1	1
3544	2,4,3,6,9,11,17,18,20,23,26,31,34,36,39,45,55	164394	29	91858	152465	96588	32	47	3.69	44.45	158.69	318.53	5	342040	8.5	2	1	1
3545	2,4,3,6,9,11,17,18,20,23,26,31,34,38,40,42,46,48,51	158148	27	56829	155529	104197	31	48	3.44	39.38	86.23	376.68	7	281165	8.5	2	1	6
3546	2,4,3,6,9,11,17,18,20,23,26,31,34,38,40,42,46,48,52,53,54	155274	27	45249	152654	111431	29	47	3.57	39.78	86.23	367.98	6	250166	8.5	2	1	6
3547	2,4,3,6,9,11,17,18,20,23,26,31,34,38,40,42,47,50,54	147483	28	17681	144863	123280	31	44	3.57	42.10	91.97	332.90	5	228700	8.5	2	1	6
3548	2,4,3,6,9,11,17,18,20,23,26,31,34,38,40,42,49,53,54	147099	27	17050	144479	122896	29	43	3.93	40.19	88.80	337.89	6	226421	8.5	2	1	6
3549	2,4,3,6,9,11,17,18,20,23,26,31,34,38,41,44,55	151605	24	41435	142764	121181	28	43	3.44	41.27	90.09	345.82	5	259956	8.5	2	1	6
3550	2,4,3,6,9,11,17,18,20,23,26,31,34,38,41,45,55	166589	28	68755	150338	114564	33	48	3.85	45.61	110.14	365.08	5	315958	8.5	2	1	6
3551	2,4,3,6,9,11,17,18,20,23,26,31,34,38,43,47,46,48,51	158165	26	56886	156120	104788	31	48	3.44	39.38	87.05	376.82	7	281421	8.5	2	1	6
3552	2,4,3,6,9,11,17,18,20,23,26,31,34,38,43,47,46,48,52,53,54	155290	26	45305	153246	112022	29	47	3.57	39.78	87.05	368.13	6	250422	8.5	2	1	6
3553	2,4,3,6,9,11,17,18,20,23,26,31,34,38,43,47,49,53,54	147115	27	17106	145070	123487	29	43	3.93	40.19	89.62	338.03	6	226677	8.5	2	1	6
3554	2,4,3,6,9,11,17,18,20,23,26,31,34,38,43,50,54	146236	25	16474	144191	122608	29	44	3.57	42.10	90.70	331.44	5	223903	8.5	2	1	6
3555	2,4,3,6,9,11,17,18,20,23,26,33,37,40,41,44,55	151832	22	41597	142829	106705	29	44	3.19	39.21	90.22	346.48	5	262628	8.5	2	1	1
3556	2,4,3,6,9,11,17,18,20,23,26,33,37,40,41,45,55	166816	26	68917	150402	100089	34	49	3.59	43.56	110.28	365.74	5	318630	8.5	2	1	1
3557	2,4,3,6,9,11,17,18,20,23,26,33,37,40,43,47,46,48,51	158391	26	57048	156185	90313	32	49	3.19	37.33	87.18	377.33	7	284093	8.5	2	1	1
3558	2,4,3,6,9,11,17,18,20,23,26,33,37,40,43,47,46,48,52,53,54	155517	26	45467	153310	97547	30	48	3.31	37.73	87.18	368.64	6	253094	8.5	2	1	1
3559	2,4,3,6,9,11,17,18,20,23,26,33,37,40,43,47,49,53,54	147342	27	17268	145135	109012	30	44	3.68	38.14	89.75	338.54	6	229348	8.5	2	1	1
3560	2,4,3,6,9,11,17,18,20,23,26,33,37,40,43,50,54	146462	25	16636	144256	108133	30	45	3.31	40.05	90.83	331.94	5	226574	8.5	2	1	1
3561	2,4,3,6,9,11,17,18,20,23,26,33,37,42,46,48,51	157225	23	55841	155593	89721	30	49	3.19	37.33	86.37	376.33	7	279376	8.5	2	1	1
3562	2,4,3,6,9,11,17,18,20,23,26,33,37,42,46,48,52,53,54	154350	23	44261	152719	96955	28	48	3.31	37.73	86.37	367.64	6	248377	8.5	2	1	1
3563	2,4,3,6,9,11,17,18,20,23,26,33,37,42,47,50,54	146559	24	16693	144928	108805	30	45	3.31	40.05	92.10	332.55	5	226911	8.5	2	1	1
3564	2,4,3,6,9,11,17,18,20,23,26,33,37,42,49,53,54	146175	23	16061	144544	108421	28	44	3.68	38.14	88.94	337.54	6	224632	8.5	2	1	1
3565	2,4,3,6,9,11,17,18,20,23,27,28,31,30,32,46,47,50,54	168787	31	70342	143058	110712	34	54	2.89	44.31	114.24	362.82	5	359725	19.5	2	0	5
3566	2,4,3,6,9,11,17,18,20,23,27,28,31,30,32,46,49,53,54	168403	30	69710	142674	110328	32	53	3.26	42.40	111.08	367.22	6	357446	19.5	2	0	5
3567	2,4,3,6,9,11,17,18,20,23,27,28,31,30,32,48,51	163995	28	94033	138266	84025	34	56	2.77	41.59	108.51	353.37	5	389929	19.5	2	0	5
3568	2,4,3,6,9,11,17,18,20,23,27,28,31,30,32,48,52,53,54	161121	28	82453	135392	91259	32	55	2.89	41.99	108.51	344.68	4	358930	19.5	2	0	5
3569	2,4,3,6,9,11,17,18,20,23,27,28,31,33,37,40,41,44,55	152143	24	40277	143029	109472	29	44	3.19	38.05	99.37	339.44	5	260465	8.5	2	0	1
3570	2,4,3,6,9,11,17,18,20,23,27,28,31,33,37,40,41,45,55	167127	28	67597	150603	102855	34	49	3.59	42.40	119.42	358.70	5	316467	8.5	2	0	1

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
3571	2,4,3,6,9,11,17,18,20,23,27,28,31,33,37,40,43,47,46,48,51	158702	28	55728	156385	93079	32	49	3.19	36.17	96.32	370.29	7	281930	8.5	2	0	1
3572	2,4,3,6,9,11,17,18,20,23,27,28,31,33,37,40,43,47,46,48,52,53,54	155828	28	44148	153511	100313	30	48	3.31	36.57	96.32	361.60	6	250931	8.5	2	0	1
3573	2,4,3,6,9,11,17,18,20,23,27,28,31,33,37,40,43,47,49,53,54	147653	29	15948	145335	111778	30	44	3.68	36.98	98.90	331.50	6	227186	8.5	2	0	1
3574	2,4,3,6,9,11,17,18,20,23,27,28,31,33,37,40,43,50,54	146773	27	15317	144456	110899	30	45	3.31	38.89	99.98	324.90	5	224412	8.5	2	0	1
3575	2,4,3,6,9,11,17,18,20,23,27,28,31,33,37,42,46,48,51	157536	25	54521	155794	92488	30	49	3.19	36.17	95.51	369.29	7	277214	8.5	2	0	1
3576	2,4,3,6,9,11,17,18,20,23,27,28,31,33,37,42,46,48,52,53,54	154661	25	42941	152919	99722	28	48	3.31	36.57	95.51	360.60	6	246215	8.5	2	0	1
3577	2,4,3,6,9,11,17,18,20,23,27,28,31,33,37,42,47,50,54	146870	26	15373	145128	111571	30	45	3.31	38.89	101.24	325.52	5	224748	8.5	2	0	1
3578	2,4,3,6,9,11,17,18,20,23,27,28,31,33,37,42,49,53,54	146486	25	14742	144744	111187	28	44	3.68	36.98	98.08	330.50	6	222469	8.5	2	0	1
3579	2,4,3,6,9,11,17,18,20,23,27,28,34,35,37,40,41,44,55	151893	24	40477	143192	114288	29	43	3.19	39.04	98.32	338.76	5	257618	8.5	2	0	1
3580	2,4,3,6,9,11,17,18,20,23,27,28,34,35,37,40,41,45,55	166876	28	67797	150765	107672	34	48	3.59	43.39	118.38	358.01	5	313620	8.5	2	0	1
3581	2,4,3,6,9,11,17,18,20,23,27,28,34,35,37,40,43,47,46,48,51	158452	28	55928	156548	97896	32	48	3.19	37.16	95.28	369.60	7	279083	8.5	2	0	1
3582	2,4,3,6,9,11,17,18,20,23,27,28,34,35,37,40,43,47,46,48,52,53,54	155577	28	44347	153673	105130	30	47	3.31	37.56	95.28	360.91	6	248084	8.5	2	0	1
3583	2,4,3,6,9,11,17,18,20,23,27,28,34,35,37,40,43,47,49,53,54	147402	29	16148	145498	116595	30	43	3.68	37.97	97.85	330.81	6	224339	8.5	2	0	1
3584	2,4,3,6,9,11,17,18,20,23,27,28,34,35,37,40,43,50,54	146523	27	15516	144619	115716	30	44	3.31	39.88	98.93	324.21	5	221565	8.5	2	0	1
3585	2,4,3,6,9,11,17,18,20,23,27,28,34,35,37,42,46,48,51	157285	25	54721	155956	97304	30	48	3.19	37.16	94.47	368.60	7	274367	8.5	2	0	1
3586	2,4,3,6,9,11,17,18,20,23,27,28,34,35,37,42,46,48,52,53,54	154411	25	43141	153082	104538	28	47	3.31	37.56	94.47	359.91	6	243368	8.5	2	0	1
3587	2,4,3,6,9,11,17,18,20,23,27,28,34,35,37,42,47,50,54	146619	26	15573	145291	116387	30	44	3.31	39.88	100.20	324.83	5	221901	8.5	2	0	1
3588	2,4,3,6,9,11,17,18,20,23,27,28,34,35,37,42,49,53,54	146236	25	14941	144907	116003	28	43	3.68	37.97	97.04	329.81	6	219623	8.5	2	0	1
3589	2,4,3,6,9,11,17,18,20,23,27,28,34,36,39,41,40,42,46,48,51	169032	28	91381	157856	88987	30	51	3.29	37.06	143.31	339.51	7	341030	8.5	2	0	1
3590	2,4,3,6,9,11,17,18,20,23,27,28,34,36,39,41,40,42,46,48,52,53,54	166157	28	79801	154982	96221	28	50	3.41	37.46	143.31	330.82	6	310031	8.5	2	0	1
3591	2,4,3,6,9,11,17,18,20,23,27,28,34,36,39,41,40,42,47,50,54	158366	29	52233	147190	108070	30	47	3.41	39.78	149.04	295.74	5	288564	8.5	2	0	1
3592	2,4,3,6,9,11,17,18,20,23,27,28,34,36,39,41,40,42,49,53,54	157982	28	51601	146806	107686	28	46	3.78	37.87	145.88	300.72	6	286285	8.5	2	0	1
3593	2,4,3,6,9,11,17,18,20,23,27,28,34,36,39,41,43,47,46,48,51	169048	29	91437	158447	89578	30	51	3.29	37.06	144.12	339.65	7	341286	8.5	2	0	1
3594	2,4,3,6,9,11,17,18,20,23,27,28,34,36,39,41,43,47,46,48,52,53,54	166173	29	79857	155573	96812	28	50	3.41	37.46	144.12	330.96	6	310287	8.5	2	0	1
3595	2,4,3,6,9,11,17,18,20,23,27,28,34,36,39,41,43,47,49,53,54	157998	30	51657	147398	108277	28	46	3.78	37.87	146.69	300.86	6	286541	8.5	2	0	1
3596	2,4,3,6,9,11,17,18,20,23,27,28,34,36,39,41,43,50,54	157119	28	51026	146519	107398	28	47	3.41	39.78	147.77	294.26	5	283767	8.5	2	0	1
3597	2,4,3,6,9,11,17,18,20,23,27,28,34,36,39,44,55	148895	23	62393	145091	105971	27	42	3.29	38.94	147.16	290.12	5	279742	8.5	2	0	1
3598	2,4,3,6,9,11,17,18,20,23,27,28,34,36,39,45,55	163879	27	89712	152665	99354	32	47	3.69	43.29	167.22	309.37	5	335744	8.5	2	0	1
3599	2,4,3,6,9,11,17,18,20,23,27,28,34,38,40,42,46,48,51	157633	25	54683	155729	106963	31	48	3.44	38.22	94.76	367.52	7	274870	8.5	2	0	6
3600	2,4,3,6,9,11,17,18,20,23,27,28,34,38,40,42,46,48,52,53,54	154759	25	43103	152854	114197	29	47	3.57	38.62	94.76	358.83	6	243871	8.5	2	0	6
3601	2,4,3,6,9,11,17,18,20,23,27,28,34,38,40,42,47,50,54	146967	26	15535	145063	126046	31	44	3.57	40.94	100.49	323.75	5	222404	8.5	2	0	6
3602	2,4,3,6,9,11,17,18,20,23,27,28,34,38,40,42,49,53,54	146583	25	14903	144679	125662	29	43	3.93	39.03	97.33	328.73	6	220126	8.5	2	0	6
3603	2,4,3,6,9,11,17,18,20,23,27,28,34,38,41,44,55	151090	22	39289	142964	123947	28	43	3.44	40.10	98.62	336.66	5	253661	8.5	2	0	6
3604	2,4,3,6,9,11,17,18,20,23,27,28,34,38,41,45,55	166074	26	66609	150538	117330	33	48	3.85	44.45	118.67	355.92	5	309663	8.5	2	0	6
3605	2,4,3,6,9,11,17,18,20,23,27,28,34,38,43,47,46,48,51	157649	24	54740	156320	107554	31	48	3.44	38.22	95.57	367.66	7	275126	8.5	2	0	6
3606	2,4,3,6,9,11,17,18,20,23,27,28,34,38,43,47,46,48,52,53,54	154775	24	43159	153446	114788	29	47	3.57	38.62	95.57	358.97	6	244127	8.5	2	0	6
3607	2,4,3,6,9,11,17,18,20,23,27,28,34,38,43,47,49,53,54	146599	25	14960	145271	126253	29	43	3.93	39.03	98.14	328.87	6	220381	8.5	2	0	6
3608	2,4,3,6,9,11,17,18,20,23,27,28,34,38,43,50,54	145720	23	14328	144391	125374	29	44	3.57	40.94	99.22	322.28	5	217607	8.5	2	0	6
3609	2,4,3,6,9,11,17,19,22,24,29,36,35,37,40,41,44,55	165670	27	84072	139349	99528	31	48	2.45	38.32	95.30	358.64	5	380410	40	2	0	1
3610	2,4,3,6,9,11,17,19,22,24,29,36,35,37,40,41,45,55	180654	31	111391	146923	92911	36	53	2.85	42.67	115.36	377.90	5	436412	40	2	0	1
3611	2,4,3,6,9,11,17,19,22,24,29,36,35,37,40,43,47,46,48,51	172230	31	99522	152705	83135	34	53	2.45	36.44	92.26	389.49	7	401875	40	2	0	1
3612	2,4,3,6,9,11,17,19,22,24,29,36,35,37,40,43,47,46,48,52,53,54	169355	31	87942	149831	90369	32	52	2.57	36.84	92.26	380.79	6	370876	40	2	0	1
3613	2,4,3,6,9,11,17,19,22,24,29,36,35,37,40,43,47,49,53,54	161180	32	59743	141656	101834	32	48	2.94	37.25	94.83	350.70	6	347131	40	2	0	1
3614	2,4,3,6,9,11,17,19,22,24,29,36,35,37,40,43,50,54	160301	30	59111	140776	100955	32	49	2.57	39.16	95.91	344.10	5	344357	40	2	0	1
3615	2,4,3,6,9,11,17,19,22,24,29,36,35,37,42,46,48,51	171063	28	98315	152114	82544	32	53	2.45	36.44	91.45	388.49	7	397159	40	2	0	1
3616	2,4,3,6,9,11,17,19,22,24,29,36,35,37,42,46,48,52,53,54	168189	28	86735	149240	89778	30	52	2.57	36.84	91.45	379.79	6	366160	40	2	0	1
3617	2,4,3,6,9,11,17,19,22,24,29,36,35,37,42,47,50,54	160397	29	59167	141448	101627	32	49	2.57	39.16	97.18	344.71	5	344693	40	2	0	1
3618	2,4,3,6,9,11,17,19,22,24,29,36,35,37,42,49,53,54	160013	28	58536	141064	101243	30	48	2.94	37.25	94.02	349.70	6	342414	40	2	0	1
3619	2,4,3,6,9,11,17,19,22,24,29,36,38,40,42,46,48,51	171411	29	98278	151886	92202	33	53	2.71	37.50	91.74	387.38	7	397662	40	2	0	6
3620	2,4,3,6,9,11,17,19,22,24,29,36,38,40,42,46,48,52,53,54	168536	29	86698	149012	99436	31	52	2.83	37.90	91.74	378.69	6	366663	40	2	0	6
3621	2,4,3,6,9,11,17,19,22,24,29,36,38,40,42,47,50,54	160745	30	59130	141221	111285	33	49	2.83	40.22	97.47	343.61	5	345196	40	2	0	6

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
3622	2,4,3,6,9,11,17,19,22,24,29,36,38,40,42,49,53,54	160361	29	58498	140837	110901	31	48	3.20	38.31	94.31	348.59	6	342917	40	2	0	6
3623	2,4,3,6,9,11,17,19,22,24,29,36,38,41,44,55	164868	26	82884	139122	109186	30	48	2.71	39.38	95.60	356.52	5	376452	40	2	0	6
3624	2,4,3,6,9,11,17,19,22,24,29,36,38,41,45,55	179852	30	110203	146695	102570	35	53	3.11	43.73	115.65	375.78	5	432455	40	2	0	6
3625	2,4,3,6,9,11,17,19,22,24,29,36,38,43,47,46,48,51	171427	28	98334	152478	92793	33	53	2.71	37.50	92.55	387.52	7	397918	40	2	0	6
3626	2,4,3,6,9,11,17,19,22,24,29,36,38,43,47,46,48,52,53,54	168553	28	86754	149603	100027	31	52	2.83	37.90	92.55	378.83	6	366918	40	2	0	6
3627	2,4,3,6,9,11,17,19,22,24,29,36,38,43,47,49,53,54	160377	29	58554	141428	111493	31	48	3.20	38.31	95.12	348.73	6	343173	40	2	0	6
3628	2,4,3,6,9,11,17,19,22,24,29,36,38,43,50,54	159498	27	57923	140549	110613	31	49	2.83	40.22	96.21	342.14	5	340399	40	2	0	6
3629	2,4,3,6,9,11,17,19,22,24,29,39,41,40,42,46,48,51	173182	28	125347	149335	74226	30	56	2.55	36.34	124.44	352.79	7	428266	40	2	0	1
3630	2,4,3,6,9,11,17,19,22,24,29,39,41,40,42,46,48,52,53,54	170307	28	113767	146461	81460	28	55	2.67	36.74	124.44	344.10	6	397267	40	2	0	1
3631	2,4,3,6,9,11,17,19,22,24,29,39,41,40,42,47,50,54	162516	29	86199	138669	93309	30	52	2.67	39.06	130.17	309.02	5	375800	40	2	0	1
3632	2,4,3,6,9,11,17,19,22,24,29,39,41,40,42,49,53,54	162132	28	85568	138285	92925	28	51	3.04	37.15	127.01	314.00	6	373522	40	2	0	1
3633	2,4,3,6,9,11,17,19,22,24,29,39,41,43,47,46,48,51	173198	29	125404	149926	74817	30	56	2.55	36.34	125.25	352.93	7	428522	40	2	0	1
3634	2,4,3,6,9,11,17,19,22,24,29,39,41,43,47,46,48,52,53,54	170323	29	113824	147052	82051	28	55	2.67	36.74	125.25	344.24	6	397523	40	2	0	1
3635	2,4,3,6,9,11,17,19,22,24,29,39,41,43,47,49,53,54	162148	30	85624	138877	93516	28	51	3.04	37.15	127.82	314.14	6	373778	40	2	0	1
3636	2,4,3,6,9,11,17,19,22,24,29,39,41,43,50,54	161269	28	84992	137997	92637	28	52	2.67	39.06	128.91	307.55	5	371004	40	2	0	1
3637	2,4,3,6,9,11,17,19,22,24,29,39,44,55	153045	23	96359	136570	91210	27	47	2.55	38.22	128.30	303.40	5	366978	40	2	0	1
3638	2,4,3,6,9,11,17,19,22,24,29,39,45,55	168029	27	123679	144144	84593	32	52	2.95	42.57	148.35	322.66	5	422981	40	2	0	1
3639	2,4,3,6,9,11,17,19,22,25,29,36,35,37,40,41,44,55	163778	26	82179	136129	104007	31	49	2.46	36.88	97.03	348.68	5	376682	40.5	2	0	1
3640	2,4,3,6,9,11,17,19,22,25,29,36,35,37,40,41,45,55	178762	30	109499	143703	97391	36	54	2.87	41.23	117.08	367.93	5	432684	40.5	2	0	1
3641	2,4,3,6,9,11,17,19,22,25,29,36,35,37,40,43,47,46,48,51	170337	30	97630	149485	87615	34	54	2.46	35.00	93.98	379.52	7	398147	40.5	2	0	1
3642	2,4,3,6,9,11,17,19,22,25,29,36,35,37,40,43,47,46,48,52,53,54	167463	30	86050	146610	94849	32	53	2.59	35.40	93.98	370.83	6	367148	40.5	2	0	1
3643	2,4,3,6,9,11,17,19,22,25,29,36,35,37,40,43,47,49,53,54	159288	31	57850	138435	106314	32	49	2.96	35.81	96.56	340.73	6	343403	40.5	2	0	1
3644	2,4,3,6,9,11,17,19,22,25,29,36,35,37,40,43,50,54	158408	29	57219	137556	105435	32	50	2.59	37.72	97.64	334.14	5	340629	40.5	2	0	1
3645	2,4,3,6,9,11,17,19,22,25,29,36,35,37,42,46,48,51	169171	27	96423	148894	87023	32	54	2.46	35.00	93.17	378.52	7	393431	40.5	2	0	1
3646	2,4,3,6,9,11,17,19,22,25,29,36,35,37,42,46,48,52,53,54	166296	27	84843	146019	94257	30	53	2.59	35.40	93.17	369.83	6	362432	40.5	2	0	1
3647	2,4,3,6,9,11,17,19,22,25,29,36,35,37,42,47,50,54	158505	28	57275	138228	106106	32	50	2.59	37.72	98.91	334.75	5	340965	40.5	2	0	1
3648	2,4,3,6,9,11,17,19,22,25,29,36,35,37,42,49,53,54	158121	27	56643	137844	105722	30	49	2.96	35.81	95.74	339.73	6	338687	40.5	2	0	1
3649	2,4,3,6,9,11,17,19,22,25,29,36,38,40,42,46,48,51	169518	28	96385	148666	96682	33	54	2.72	36.06	93.46	377.41	7	393934	40.5	2	0	6
3650	2,4,3,6,9,11,17,19,22,25,29,36,38,40,42,46,48,52,53,54	166644	28	84805	145792	103916	31	53	2.85	36.46	93.46	368.72	6	362935	40.5	2	0	6
3651	2,4,3,6,9,11,17,19,22,25,29,36,38,40,42,47,50,54	158853	29	57237	138000	115765	33	50	2.85	38.78	99.20	333.64	5	341468	40.5	2	0	6
3652	2,4,3,6,9,11,17,19,22,25,29,36,38,40,42,49,53,54	158469	28	56606	137616	115381	31	49	3.21	36.87	96.04	338.62	6	339190	40.5	2	0	6
3653	2,4,3,6,9,11,17,19,22,25,29,36,38,41,44,55	162975	25	80991	135901	113666	30	49	2.72	37.94	97.32	346.56	5	372725	40.5	2	0	6
3654	2,4,3,6,9,11,17,19,22,25,29,36,38,41,45,55	177959	29	108311	143475	107049	35	54	3.13	42.29	117.37	365.82	5	428727	40.5	2	0	6
3655	2,4,3,6,9,11,17,19,22,25,29,36,38,43,47,46,48,51	169535	27	96442	149257	97273	33	54	2.72	36.06	94.28	377.56	7	394190	40.5	2	0	6
3656	2,4,3,6,9,11,17,19,22,25,29,36,38,43,47,46,48,52,53,54	166660	27	84862	146383	104507	31	53	2.85	36.46	94.28	368.87	6	363191	40.5	2	0	6
3657	2,4,3,6,9,11,17,19,22,25,29,36,38,43,47,49,53,54	158485	28	56662	138208	115972	31	49	3.21	36.87	96.85	338.77	6	339445	40.5	2	0	6
3658	2,4,3,6,9,11,17,19,22,25,29,36,38,43,50,54	157606	26	56031	137329	115093	31	50	2.85	38.78	97.93	332.17	5	336671	40.5	2	0	6
3659	2,4,3,6,9,11,17,19,22,25,29,39,41,40,42,46,48,51	171289	27	123455	146114	78706	30	57	2.56	34.90	126.16	342.83	7	424538	40.5	2	0	1
3660	2,4,3,6,9,11,17,19,22,25,29,39,41,40,42,46,48,52,53,54	168415	27	111875	143240	85940	28	56	2.69	35.30	126.16	334.14	6	393539	40.5	2	0	1
3661	2,4,3,6,9,11,17,19,22,25,29,39,41,40,42,47,50,54	160624	28	84307	135449	97789	30	53	2.69	37.62	131.90	299.06	5	372073	40.5	2	0	1
3662	2,4,3,6,9,11,17,19,22,25,29,39,41,40,42,49,53,54	160240	27	83675	135065	97405	28	52	3.06	35.71	128.74	304.04	6	369794	40.5	2	0	1
3663	2,4,3,6,9,11,17,19,22,25,29,39,41,43,47,46,48,51	171305	28	123511	146706	79297	30	57	2.56	34.90	126.98	342.97	7	424794	40.5	2	0	1
3664	2,4,3,6,9,11,17,19,22,25,29,39,41,43,47,46,48,52,53,54	168431	28	111931	143831	86531	28	56	2.69	35.30	126.98	334.28	6	393795	40.5	2	0	1
3665	2,4,3,6,9,11,17,19,22,25,29,39,41,43,47,49,53,54	160256	29	83732	135656	97996	28	52	3.06	35.71	129.55	304.18	6	370050	40.5	2	0	1
3666	2,4,3,6,9,11,17,19,22,25,29,39,41,43,50,54	159376	27	83100	134777	97117	28	53	2.69	37.62	130.63	297.58	5	367276	40.5	2	0	1
3667	2,4,3,6,9,11,17,19,22,25,29,39,44,55	151152	22	94467	133350	95690	27	48	2.56	36.78	130.02	293.44	5	363251	40.5	2	0	1
3668	2,4,3,6,9,11,17,19,22,25,29,39,45,55	166136	26	121787	140923	89073	32	53	2.97	41.13	150.07	312.69	5	419253	40.5	2	0	1
3669	2,4,3,6,9,11,17,21,27,26,30,32,46,47,50,54	168521	31	76255	141018	108406	36	56	2.41	43.71	94.12	381.24	5	379150	21	2	1	5
3670	2,4,3,6,9,11,17,21,27,26,30,32,46,49,53,54	168137	30	75623	140634	108022	34	55	2.77	41.80	90.96	385.63	6	376871	21	2	1	5
3671	2,4,3,6,9,11,17,21,27,26,30,32,48,51	163730	28	99945	136226	81719	36	58	2.28	40.99	88.39	371.79	5	409354	21	2	1	5
3672	2,4,3,6,9,11,17,21,27,26,30,32,48,52,53,54	160855	28	88365	133352	88953	34	57	2.41	41.39	88.39	363.10	4	378355	21	2	1	5

Table F-1: Route Data for All Routes

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
3673	2,4,3,6,9,11,17,21,27,26,31,34,35,37,40,41,44,55	152454	26	47216	141151	111982	31	45	2.70	38.44	78.82	359.35	5	281176	10	2	1	1
3674	2,4,3,6,9,11,17,21,27,26,31,34,35,37,40,41,45,55	167437	30	74536	148725	105366	36	50	3.11	42.79	98.88	378.61	5	337178	10	2	1	1
3675	2,4,3,6,9,11,17,21,27,26,31,34,35,37,40,43,47,46,48,51	159013	30	62667	154507	95589	34	50	2.70	36.56	75.78	390.19	7	302641	10	2	1	1
3676	2,4,3,6,9,11,17,21,27,26,31,34,35,37,40,43,47,46,48,52,53,54	156138	30	51087	151633	102823	32	49	2.82	36.96	75.78	381.50	6	271642	10	2	1	1
3677	2,4,3,6,9,11,17,21,27,26,31,34,35,37,40,43,47,49,53,54	147963	31	22887	143458	114288	32	45	3.19	37.37	78.35	351.40	6	247897	10	2	1	1
3678	2,4,3,6,9,11,17,21,27,26,31,34,35,37,40,43,50,54	147084	29	22256	142579	113409	32	46	2.82	39.28	79.43	344.81	5	245123	10	2	1	1
3679	2,4,3,6,9,11,17,21,27,26,31,34,35,37,42,46,48,51	157846	27	61460	153916	94998	32	50	2.70	36.56	74.97	389.19	7	297924	10	2	1	1
3680	2,4,3,6,9,11,17,21,27,26,31,34,35,37,42,46,48,52,53,54	154972	27	49880	151042	102232	30	49	2.82	36.96	74.97	380.50	6	266925	10	2	1	1
3681	2,4,3,6,9,11,17,21,27,26,31,34,35,37,42,47,50,54	147181	28	22312	143250	114081	32	46	2.82	39.28	80.70	345.42	5	245459	10	2	1	1
3682	2,4,3,6,9,11,17,21,27,26,31,34,35,37,42,49,53,54	146797	27	21680	142866	113697	30	45	3.19	37.37	77.54	350.40	6	243180	10	2	1	1
3683	2,4,3,6,9,11,17,21,27,26,31,34,36,39,41,40,42,46,48,51	169593	30	98120	155816	86680	32	53	2.80	36.46	123.81	360.10	7	364587	10	2	1	1
3684	2,4,3,6,9,11,17,21,27,26,31,34,36,39,41,40,42,46,48,52,53,54	166718	30	86540	152942	93914	30	52	2.93	36.86	123.81	351.41	6	333588	10	2	1	1
3685	2,4,3,6,9,11,17,21,27,26,31,34,36,39,41,40,42,47,50,54	158927	31	58972	145150	105763	32	49	2.93	39.18	129.54	316.33	5	312122	10	2	1	1
3686	2,4,3,6,9,11,17,21,27,26,31,34,36,39,41,40,42,49,53,54	158543	30	58340	144766	105379	30	48	3.29	37.27	126.38	321.31	6	309843	10	2	1	1
3687	2,4,3,6,9,11,17,21,27,26,31,34,36,39,41,43,47,46,48,51	169609	31	98176	156407	87272	32	53	2.80	36.46	124.62	360.24	7	364843	10	2	1	1
3688	2,4,3,6,9,11,17,21,27,26,31,34,36,39,41,43,47,46,48,52,53,54	166735	31	86596	153533	94506	30	52	2.93	36.86	124.62	351.55	6	333844	10	2	1	1
3689	2,4,3,6,9,11,17,21,27,26,31,34,36,39,41,43,47,49,53,54	158559	32	58397	145358	105971	30	48	3.29	37.27	127.19	321.45	6	310099	10	2	1	1
3690	2,4,3,6,9,11,17,21,27,26,31,34,36,39,41,43,50,54	157680	30	57765	144478	105091	30	49	2.93	39.18	128.27	314.86	5	307325	10	2	1	1
3691	2,4,3,6,9,11,17,21,27,26,31,34,36,39,44,55	149456	25	69132	143051	103664	29	44	2.80	38.34	127.66	310.71	5	303300	10	2	1	1
3692	2,4,3,6,9,11,17,21,27,26,31,34,36,39,45,55	164440	29	96452	150625	97048	34	49	3.21	42.69	147.72	329.97	5	359302	10	2	1	1
3693	2,4,3,6,9,11,17,21,27,26,31,34,38,40,42,46,48,51	158194	27	61422	153689	104656	33	50	2.96	37.62	75.26	388.11	7	298427	10	2	1	6
3694	2,4,3,6,9,11,17,21,27,26,31,34,38,40,42,46,48,52,53,54	155320	27	49842	150814	111890	31	49	3.08	38.02	75.26	379.42	6	267428	10	2	1	6
3695	2,4,3,6,9,11,17,21,27,26,31,34,38,40,42,47,50,54	147528	28	22274	143023	123740	33	46	3.08	40.34	80.99	344.34	5	245962	10	2	1	6
3696	2,4,3,6,9,11,17,21,27,26,31,34,38,40,42,49,53,54	147144	27	21643	142639	123356	31	45	3.45	38.43	77.83	349.32	6	243683	10	2	1	6
3697	2,4,3,6,9,11,17,21,27,26,31,34,38,41,44,55	151651	24	46028	140924	121640	30	45	2.96	39.50	79.11	357.26	5	277218	10	2	1	6
3698	2,4,3,6,9,11,17,21,27,26,31,34,38,41,45,55	166635	28	73348	148498	115024	35	50	3.36	43.85	99.17	376.51	5	333220	10	2	1	6
3699	2,4,3,6,9,11,17,21,27,26,31,34,38,43,47,46,48,51	158210	26	61479	154280	105248	33	50	2.96	37.62	76.07	388.26	7	298683	10	2	1	6
3700	2,4,3,6,9,11,17,21,27,26,31,34,38,43,47,46,48,52,53,54	155336	26	49899	151406	112482	31	49	3.08	38.02	76.07	379.57	6	267684	10	2	1	6
3701	2,4,3,6,9,11,17,21,27,26,31,34,38,43,47,49,53,54	147160	27	21699	143230	123947	31	45	3.45	38.43	78.64	349.47	6	243939	10	2	1	6
3702	2,4,3,6,9,11,17,21,27,26,31,34,38,43,50,54	146281	25	21068	142351	123068	31	46	3.08	40.34	79.72	342.87	5	241165	10	2	1	6
3703	2,4,3,6,9,11,17,21,27,26,33,37,40,41,44,55	151878	22	46190	140989	107165	31	46	2.70	37.45	79.25	357.92	5	279890	10	2	1	1
3704	2,4,3,6,9,11,17,21,27,26,33,37,40,41,45,55	166861	26	73510	148562	100549	36	51	3.11	41.80	99.30	377.18	5	335892	10	2	1	1
3705	2,4,3,6,9,11,17,21,27,26,33,37,40,43,47,46,48,51	158437	26	61641	154345	90773	34	51	2.70	35.57	76.20	388.76	7	301355	10	2	1	1
3706	2,4,3,6,9,11,17,21,27,26,33,37,40,43,47,46,48,52,53,54	155562	26	50060	151470	98007	32	50	2.82	35.97	76.20	380.07	6	270356	10	2	1	1
3707	2,4,3,6,9,11,17,21,27,26,33,37,40,43,47,49,53,54	147387	27	21861	143295	109472	32	46	3.19	36.38	78.78	349.97	6	246610	10	2	1	1
3708	2,4,3,6,9,11,17,21,27,26,33,37,40,43,50,54	146508	25	21229	142416	108592	32	47	2.82	38.29	79.86	343.38	5	243836	10	2	1	1
3709	2,4,3,6,9,11,17,21,27,26,33,37,42,46,48,51	157270	23	60434	153753	90181	32	51	2.70	35.57	75.39	387.76	7	296638	10	2	1	1
3710	2,4,3,6,9,11,17,21,27,26,33,37,42,46,48,52,53,54	154396	23	48854	150879	97415	30	50	2.82	35.97	75.39	379.07	6	265639	10	2	1	1
3711	2,4,3,6,9,11,17,21,27,26,33,37,42,47,50,54	146605	24	21286	143088	109264	32	47	2.82	38.29	81.12	343.99	5	244173	10	2	1	1
3712	2,4,3,6,9,11,17,21,27,26,33,37,42,49,53,54	146221	23	20654	142704	108880	30	46	3.19	36.38	77.96	348.97	6	241894	10	2	1	1
3713	2,4,3,6,9,11,17,21,28,31,30,32,46,47,50,54	167879	29	73982	141218	111172	36	56	2.41	42.55	100.17	374.25	5	373173	21	2	0	5
3714	2,4,3,6,9,11,17,21,28,31,30,32,46,49,53,54	167495	28	73350	140834	110788	34	55	2.77	40.64	97.01	378.65	6	370894	21	2	0	5
3715	2,4,3,6,9,11,17,21,28,31,30,32,48,51	163087	26	97672	136426	84485	36	58	2.28	39.83	94.44	364.81	5	403377	21	2	0	5
3716	2,4,3,6,9,11,17,21,28,31,30,32,48,52,53,54	160213	26	86092	133552	91719	34	57	2.41	40.23	94.44	356.12	4	372378	21	2	0	5
3717	2,4,3,6,9,11,17,21,28,31,33,37,40,41,44,55	151235	22	43917	141189	109931	31	46	2.70	36.29	85.30	350.88	5	273913	10	2	0	1
3718	2,4,3,6,9,11,17,21,28,31,33,37,40,41,45,55	166219	26	71237	148763	103315	36	51	3.11	40.64	105.35	370.14	5	329915	10	2	0	1
3719	2,4,3,6,9,11,17,21,28,31,33,37,40,43,47,46,48,51	157794	26	59368	154545	93539	34	51	2.70	34.41	82.25	381.72	7	295378	10	2	0	1
3720	2,4,3,6,9,11,17,21,28,31,33,37,40,43,47,46,48,52,53,54	154920	26	47787	151671	100773	32	50	2.82	34.81	82.25	373.03	6	264379	10	2	0	1
3721	2,4,3,6,9,11,17,21,28,31,33,37,40,43,47,49,53,54	146745	27	19588	143495	112238	32	46	3.19	35.22	84.83	342.93	6	240634	10	2	0	1
3722	2,4,3,6,9,11,17,21,28,31,33,37,40,43,50,54	145865	25	18956	142616	111359	32	47	2.82	37.13	85.91	336.34	5	237860	10	2	0	1
3723	2,4,3,6,9,11,17,21,28,31,33,37,42,46,48,51	156628	23	58161	153954	92947	32	51	2.70	34.41	81.44	380.72	7	290662	10	2	0	1

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
3724	2,4,3,6,9,11,17,21,28,31,33,37,42,46,48,52,53,54	153753	23	46581	151079	100182	30	50	2.82	34.81	81.44	372.03	6	259663	10	2	0	1
3725	2,4,3,6,9,11,17,21,28,31,33,37,42,47,50,54	145962	24	19013	143288	112031	32	47	2.82	37.13	87.17	336.95	5	238196	10	2	0	1
3726	2,4,3,6,9,11,17,21,28,31,33,37,42,49,53,54	145578	23	18381	142904	111647	30	46	3.19	35.22	84.01	341.93	6	235917	10	2	0	1
3727	2,4,3,6,9,11,17,21,28,34,35,37,40,41,44,55	150984	22	44117	141352	114748	31	45	2.70	37.28	84.25	350.19	5	271066	10	2	0	1
3728	2,4,3,6,9,11,17,21,28,34,35,37,40,41,45,55	165968	26	71436	148925	108132	36	50	3.11	41.63	104.31	369.45	5	327069	10	2	0	1
3729	2,4,3,6,9,11,17,21,28,34,35,37,40,43,47,46,48,51	157544	26	59567	154708	98355	34	50	2.70	35.40	81.21	381.04	7	292531	10	2	0	1
3730	2,4,3,6,9,11,17,21,28,34,35,37,40,43,47,46,48,52,53,54	154669	26	47987	151833	105590	32	49	2.82	35.80	81.21	372.34	6	261532	10	2	0	1
3731	2,4,3,6,9,11,17,21,28,34,35,37,40,43,47,49,53,54	146494	27	19788	143658	117055	32	45	3.19	36.21	83.78	342.25	6	237787	10	2	0	1
3732	2,4,3,6,9,11,17,21,28,34,35,37,40,43,50,54	145615	25	19156	142779	116175	32	46	2.82	38.12	84.86	335.65	5	235013	10	2	0	1
3733	2,4,3,6,9,11,17,21,28,34,35,37,42,46,48,51	156377	23	58361	154116	97764	32	50	2.70	35.40	80.40	380.04	7	287815	10	2	0	1
3734	2,4,3,6,9,11,17,21,28,34,35,37,42,46,48,52,53,54	153503	23	46780	151242	104998	30	49	2.82	35.80	80.40	371.34	6	256816	10	2	0	1
3735	2,4,3,6,9,11,17,21,28,34,35,37,42,47,50,54	145711	24	19212	143451	116847	32	46	2.82	38.12	86.13	336.26	5	235349	10	2	0	1
3736	2,4,3,6,9,11,17,21,28,34,35,37,42,49,53,54	145327	23	18581	143067	116463	30	45	3.19	36.21	82.97	341.25	6	233071	10	2	0	1
3737	2,4,3,6,9,11,17,21,28,34,36,39,41,40,42,46,48,51	168124	26	95020	156016	89446	32	53	2.80	35.30	129.24	350.94	7	354478	10	2	0	1
3738	2,4,3,6,9,11,17,21,28,34,36,39,41,40,42,46,48,52,53,54	165249	26	83440	153142	96681	30	52	2.93	35.70	129.24	342.25	6	323479	10	2	0	1
3739	2,4,3,6,9,11,17,21,28,34,36,39,41,40,42,47,50,54	157458	27	55872	145350	108530	32	49	2.93	38.02	134.97	307.17	5	302012	10	2	0	1
3740	2,4,3,6,9,11,17,21,28,34,36,39,41,40,42,49,53,54	157074	26	55241	144967	108146	30	48	3.29	36.11	131.81	312.15	6	299734	10	2	0	1
3741	2,4,3,6,9,11,17,21,28,34,36,39,41,43,47,46,48,51	168140	27	95077	156607	90038	32	53	2.80	35.30	130.05	351.09	7	354734	10	2	0	1
3742	2,4,3,6,9,11,17,21,28,34,36,39,41,43,47,46,48,52,53,54	165265	27	83497	153733	97272	30	52	2.93	35.70	130.05	342.39	6	323735	10	2	0	1
3743	2,4,3,6,9,11,17,21,28,34,36,39,41,43,47,49,53,54	157090	28	55297	145558	108737	30	48	3.29	36.11	132.62	312.30	6	299989	10	2	0	1
3744	2,4,3,6,9,11,17,21,28,34,36,39,41,43,50,54	156211	26	54666	144679	107858	30	49	2.93	38.02	133.70	305.70	5	297215	10	2	0	1
3745	2,4,3,6,9,11,17,21,28,34,36,39,44,55	147987	21	66032	143251	106430	29	44	2.80	37.18	133.09	301.55	5	293190	10	2	0	1
3746	2,4,3,6,9,11,17,21,28,34,36,39,45,55	162971	25	93352	150825	99814	34	49	3.21	41.53	153.15	320.81	5	349193	10	2	0	1
3747	2,4,3,6,9,11,17,21,28,34,38,40,42,46,48,51	156725	23	58323	153889	107423	33	50	2.96	36.46	80.69	378.95	7	288318	10	2	0	6
3748	2,4,3,6,9,11,17,21,28,34,38,40,42,46,48,52,53,54	153850	23	46743	151015	114657	31	49	3.08	36.86	80.69	370.26	6	257319	10	2	0	6
3749	2,4,3,6,9,11,17,21,28,34,38,40,42,47,50,54	146059	24	19175	143223	126506	33	46	3.08	39.18	86.42	335.18	5	235852	10	2	0	6
3750	2,4,3,6,9,11,17,21,28,34,38,40,42,49,53,54	145675	23	18543	142839	126122	31	45	3.45	37.27	83.26	340.16	6	233574	10	2	0	6
3751	2,4,3,6,9,11,17,21,28,34,38,41,44,55	150182	20	42929	141124	124407	30	45	2.96	38.34	84.55	348.10	5	267109	10	2	0	6
3752	2,4,3,6,9,11,17,21,28,34,38,41,45,55	165166	24	70248	148698	117790	35	50	3.36	42.69	104.60	367.36	5	323111	10	2	0	6
3753	2,4,3,6,9,11,17,21,28,34,38,43,47,46,48,51	156741	22	58379	154480	108014	33	50	2.96	36.46	81.50	379.10	7	288574	10	2	0	6
3754	2,4,3,6,9,11,17,21,28,34,38,43,47,46,48,52,53,54	153867	22	46799	151606	115248	31	49	3.08	36.86	81.50	370.41	6	257575	10	2	0	6
3755	2,4,3,6,9,11,17,21,28,34,38,43,47,49,53,54	145691	23	18599	143431	126713	31	45	3.45	37.27	84.07	340.31	6	233829	10	2	0	6
3756	2,4,3,6,9,11,17,21,28,34,38,43,50,54	144812	21	17968	142551	125834	31	46	3.08	39.18	85.16	333.71	5	231055	10	2	0	6
3757	2,4,7,11,13,12,14,30,31,34,35,37,40,41,44,55	164205	16	82438	152592	122713	32	51	3.92	36.13	119.19	357.00	5	330951	15.5	0	0	1
3758	2,4,7,11,13,12,14,30,31,34,35,37,40,41,45,55	179189	20	109758	160166	116097	37	56	4.33	40.48	139.24	376.25	5	386953	15.5	0	0	1
3759	2,4,7,11,13,12,14,30,31,34,35,37,40,43,47,46,48,51	170765	20	97889	165949	106321	35	56	3.92	34.25	116.15	387.84	7	352416	15.5	0	0	1
3760	2,4,7,11,13,12,14,30,31,34,35,37,40,43,47,46,48,52,53,54	167890	20	86309	163074	113555	33	55	4.05	34.65	116.15	379.15	6	321417	15.5	0	0	1
3761	2,4,7,11,13,12,14,30,31,34,35,37,40,43,47,49,53,54	159715	21	58109	154899	125020	33	51	4.41	35.06	118.72	349.05	6	297672	15.5	0	0	1
3762	2,4,7,11,13,12,14,30,31,34,35,37,40,43,50,54	158836	19	57478	154020	124141	33	52	4.05	36.97	119.80	342.46	5	294898	15.5	0	0	1
3763	2,4,7,11,13,12,14,30,31,34,35,37,42,46,48,51	169598	17	96682	165357	105729	33	56	3.92	34.25	115.33	386.84	7	347700	15.5	0	0	1
3764	2,4,7,11,13,12,14,30,31,34,35,37,42,46,48,52,53,54	166724	17	85102	162483	112964	31	55	4.05	34.65	115.33	378.15	6	316701	15.5	0	0	1
3765	2,4,7,11,13,12,14,30,31,34,35,37,42,47,50,54	158932	18	57534	154692	124813	33	52	4.05	36.97	121.07	343.07	5	295234	15.5	0	0	1
3766	2,4,7,11,13,12,14,30,31,34,35,37,42,49,53,54	158549	17	56902	154308	124429	31	51	4.41	35.06	117.91	348.05	6	292955	15.5	0	0	1
3767	2,4,7,11,13,12,14,30,31,34,36,39,41,40,42,46,48,51	181345	20	133342	167257	97412	33	59	4.02	34.15	164.17	357.75	7	414363	15.5	0	0	1
3768	2,4,7,11,13,12,14,30,31,34,36,39,41,40,42,46,48,52,53,54	178470	20	121762	164383	104646	31	58	4.15	34.55	164.17	349.06	6	383363	15.5	0	0	1
3769	2,4,7,11,13,12,14,30,31,34,36,39,41,40,42,47,50,54	170679	21	94194	156591	116495	33	55	4.15	36.87	169.91	313.98	5	361897	15.5	0	0	1
3770	2,4,7,11,13,12,14,30,31,34,36,39,41,40,42,49,53,54	170295	20	93562	156207	116111	31	54	4.52	34.96	166.75	318.96	6	359618	15.5	0	0	1
3771	2,4,7,11,13,12,14,30,31,34,36,39,41,43,47,46,48,51	181361	21	133398	167848	98003	33	59	4.02	34.15	164.99	357.89	7	414618	15.5	0	0	1
3772	2,4,7,11,13,12,14,30,31,34,36,39,41,43,47,46,48,52,53,54	178486	21	121818	164974	105237	31	58	4.15	34.55	164.99	349.20	6	383619	15.5	0	0	1
3773	2,4,7,11,13,12,14,30,31,34,36,39,41,43,47,49,53,54	170311	22	93619	156799	116702	31	54	4.52	34.96	167.56	319.10	6	359874	15.5	0	0	1
3774	2,4,7,11,13,12,14,30,31,34,36,39,41,43,50,54	169432	20	92987	155920	115823	31	55	4.15	36.87	168.64	312.51	5	357100	15.5	0	0	1

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
3775	2,4,7,11,13,12,14,30,31,34,36,39,44,55	161208	15	104354	154492	114396	30	50	4.02	36.03	168.03	308.36	5	353075	15.5	0	0	1
3776	2,4,7,11,13,12,14,30,31,34,36,39,45,55	176192	19	131674	162066	107779	35	55	4.43	40.38	188.08	327.62	5	409077	15.5	0	0	1
3777	2,4,7,11,13,12,14,30,31,34,38,40,42,46,48,51	169946	17	96644	165130	115388	34	56	4.18	35.31	115.63	385.76	7	348203	15.5	0	0	6
3778	2,4,7,11,13,12,14,30,31,34,38,40,42,46,48,52,53,54	167072	17	85064	162255	122622	32	55	4.31	35.71	115.63	377.07	6	317204	15.5	0	0	6
3779	2,4,7,11,13,12,14,30,31,34,38,40,42,47,50,54	159280	18	57496	154464	134471	34	52	4.31	38.03	121.36	341.99	5	295737	15.5	0	0	6
3780	2,4,7,11,13,12,14,30,31,34,38,40,42,49,53,54	158896	17	56865	154080	134087	32	51	4.67	36.12	118.20	346.97	6	293458	15.5	0	0	6
3781	2,4,7,11,13,12,14,30,31,34,38,41,44,55	163403	14	81250	152365	132372	31	51	4.18	37.19	119.48	354.91	5	326993	15.5	0	0	6
3782	2,4,7,11,13,12,14,30,31,34,38,41,45,55	178387	18	108570	159939	125755	36	56	4.59	41.54	139.54	374.16	5	382996	15.5	0	0	6
3783	2,4,7,11,13,12,14,30,31,34,38,43,47,46,48,51	169962	16	96701	165721	115979	34	56	4.18	35.31	116.44	385.91	7	348458	15.5	0	0	6
3784	2,4,7,11,13,12,14,30,31,34,38,43,47,46,48,52,53,54	167088	16	85121	162847	123213	32	55	4.31	35.71	116.44	377.21	6	317459	15.5	0	0	6
3785	2,4,7,11,13,12,14,30,31,34,38,43,47,49,53,54	158912	17	56921	154671	134678	32	51	4.67	36.12	119.01	347.11	6	293714	15.5	0	0	6
3786	2,4,7,11,13,12,14,30,31,34,38,43,50,54	158033	15	56289	153792	133799	32	52	4.31	38.03	120.09	340.52	5	290940	15.5	0	0	6
3787	2,4,7,11,13,12,14,30,33,37,40,41,44,55	163630	14	81412	152430	117897	32	52	3.92	35.14	119.62	355.51	5	329665	15.5	0	0	1
3788	2,4,7,11,13,12,14,30,33,37,40,41,45,55	178613	18	108732	160004	111280	37	57	4.33	39.49	139.67	374.77	5	385667	15.5	0	0	1
3789	2,4,7,11,13,12,14,30,33,37,40,43,47,46,48,51	170189	18	96863	165786	101504	35	57	3.92	33.26	116.57	386.36	7	351130	15.5	0	0	1
3790	2,4,7,11,13,12,14,30,33,37,40,43,47,46,48,52,53,54	167314	18	85282	162912	108738	33	56	4.05	33.66	116.57	377.67	6	320131	15.5	0	0	1
3791	2,4,7,11,13,12,14,30,33,37,40,43,47,49,53,54	159139	19	57083	154736	120203	33	52	4.41	34.07	119.15	347.57	6	296386	15.5	0	0	1
3792	2,4,7,11,13,12,14,30,33,37,40,43,50,54	158260	17	56451	153857	119324	33	53	4.05	35.98	120.23	340.97	5	293612	15.5	0	0	1
3793	2,4,7,11,13,12,14,30,33,37,42,46,48,51	169022	15	95656	165195	100913	33	57	3.92	33.26	115.76	385.36	7	346413	15.5	0	0	1
3794	2,4,7,11,13,12,14,30,33,37,42,46,48,52,53,54	166148	15	84076	162320	108147	31	56	4.05	33.66	115.76	376.67	6	315414	15.5	0	0	1
3795	2,4,7,11,13,12,14,30,33,37,42,47,50,54	158356	16	56508	154529	119996	33	53	4.05	35.98	121.49	341.58	5	293948	15.5	0	0	1
3796	2,4,7,11,13,12,14,30,33,37,42,49,53,54	157973	15	55876	154145	119612	31	52	4.41	34.07	118.33	346.57	6	291669	15.5	0	0	1
3797	2,4,7,11,13,12,14,32,46,47,50,54	172618	19	103821	152459	119137	35	60	3.63	41.40	134.49	353.92	5	390889	23.5	0	0	5
3798	2,4,7,11,13,12,14,32,46,49,53,54	172234	18	103190	152075	118753	33	59	4.00	39.49	131.33	358.31	6	388610	23.5	0	0	5
3799	2,4,7,11,13,12,14,32,48,51	167826	16	127512	147667	92450	35	62	3.50	38.68	128.76	344.47	5	421093	23.5	0	0	5
3800	2,4,7,11,13,12,14,32,48,52,53,54	164952	16	115932	144793	99684	33	61	3.63	39.08	128.76	335.78	4	390094	23.5	0	0	5
3801	2,4,7,11,13,15,23,26,30,32,46,47,50,54	167179	28	77133	136756	108002	34	54	3.79	44.98	104.77	360.57	5	374807	20	0	1	5
3802	2,4,7,11,13,15,23,26,30,32,46,49,53,54	166795	27	76502	136372	107618	32	53	4.15	43.07	101.60	364.97	6	372528	20	0	1	5
3803	2,4,7,11,13,15,23,26,30,32,48,51	162387	25	100824	131964	81315	34	56	3.66	42.26	99.03	351.13	5	405011	20	0	1	5
3804	2,4,7,11,13,15,23,26,30,32,48,52,53,54	159513	25	89244	129090	88549	32	55	3.79	42.66	99.03	342.44	4	374012	20	0	1	5
3805	2,4,7,11,13,15,23,26,31,34,35,37,40,41,44,55	151111	23	48095	136890	111578	29	43	4.08	39.70	89.47	338.69	5	276833	9	0	1	1
3806	2,4,7,11,13,15,23,26,31,34,35,37,40,41,45,55	166095	27	75415	144463	104962	34	48	4.49	44.05	109.52	357.94	5	332835	9	0	1	1
3807	2,4,7,11,13,15,23,26,31,34,35,37,40,43,47,46,48,51	157670	27	63546	150246	95186	32	48	4.08	37.82	86.42	369.53	7	298298	9	0	1	1
3808	2,4,7,11,13,15,23,26,31,34,35,37,40,43,47,46,48,52,53,54	154796	27	51966	147371	102420	30	47	4.21	38.22	86.42	360.84	6	267299	9	0	1	1
3809	2,4,7,11,13,15,23,26,31,34,35,37,40,43,47,49,53,54	146621	28	23766	139196	113885	30	43	4.57	38.63	88.99	330.74	6	243554	9	0	1	1
3810	2,4,7,11,13,15,23,26,31,34,35,37,40,43,50,54	145742	26	23135	138317	113006	30	44	4.21	40.54	90.08	324.14	5	240780	9	0	1	1
3811	2,4,7,11,13,15,23,26,31,34,35,37,42,46,48,51	156504	24	62339	149654	94594	30	48	4.08	37.82	85.61	368.53	7	293582	9	0	1	1
3812	2,4,7,11,13,15,23,26,31,34,35,37,42,46,48,52,53,54	153630	24	50759	146780	101828	28	47	4.21	38.22	85.61	359.84	6	262583	9	0	1	1
3813	2,4,7,11,13,15,23,26,31,34,35,37,42,47,50,54	145838	25	23191	138989	113677	30	44	4.21	40.54	91.34	324.76	5	241116	9	0	1	1
3814	2,4,7,11,13,15,23,26,31,34,35,37,42,49,53,54	145454	24	22559	138605	113293	28	43	4.57	38.63	88.18	329.74	6	238837	9	0	1	1
3815	2,4,7,11,13,15,23,26,31,34,36,39,41,40,42,46,48,51	168250	27	98999	151554	86277	30	51	4.18	37.72	134.45	339.44	7	360245	9	0	1	1
3816	2,4,7,11,13,15,23,26,31,34,36,39,41,40,42,46,48,52,53,54	165376	27	87419	148680	93511	28	50	4.31	38.12	134.45	330.75	6	329246	9	0	1	1
3817	2,4,7,11,13,15,23,26,31,34,36,39,41,40,42,47,50,54	157585	28	59851	140888	105360	30	47	4.31	40.44	140.18	295.67	5	307779	9	0	1	1
3818	2,4,7,11,13,15,23,26,31,34,36,39,41,40,42,49,53,54	157201	27	59219	140504	104976	28	46	4.67	38.53	137.02	300.65	6	305500	9	0	1	1
3819	2,4,7,11,13,15,23,26,31,34,36,39,41,43,47,46,48,51	168267	28	99055	152145	86868	30	51	4.18	37.72	135.26	339.58	7	360501	9	0	1	1
3820	2,4,7,11,13,15,23,26,31,34,36,39,41,43,47,46,48,52,53,54	165392	28	87475	149271	94102	28	50	4.31	38.12	135.26	330.89	6	329502	9	0	1	1
3821	2,4,7,11,13,15,23,26,31,34,36,39,41,43,47,49,53,54	157217	29	59276	141096	105567	28	46	4.67	38.53	137.83	300.79	6	305756	9	0	1	1
3822	2,4,7,11,13,15,23,26,31,34,36,39,41,43,50,54	156338	27	58644	140217	104688	28	47	4.31	40.44	138.92	294.19	5	302982	9	0	1	1
3823	2,4,7,11,13,15,23,26,31,34,36,39,44,55	148114	22	70011	138789	103261	27	42	4.18	39.61	138.31	290.05	5	298957	9	0	1	1
3824	2,4,7,11,13,15,23,26,31,34,36,39,45,55	163097	26	97331	146363	96644	32	47	4.59	43.95	158.36	309.30	5	354959	9	0	1	1
3825	2,4,7,11,13,15,23,26,31,34,38,40,42,46,48,51	156852	24	62301	149427	104253	31	48	4.34	38.88	85.90	367.45	7	294085	9	0	1	6

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
3826	2,4,7,11,13,15,23,26,31,34,38,40,42,46,48,52,53,54	153977	24	50721	146552	111487	29	47	4.46	39.29	85.90	358.76	6	263086	9	0	1	6
3827	2,4,7,11,13,15,23,26,31,34,38,40,42,47,50,54	146186	25	23153	138761	123336	31	44	4.46	41.60	91.63	323.68	5	241619	9	0	1	6
3828	2,4,7,11,13,15,23,26,31,34,38,40,42,49,53,54	145802	24	22522	138377	122952	29	43	4.83	39.69	88.47	328.66	6	239340	9	0	1	6
3829	2,4,7,11,13,15,23,26,31,34,38,41,44,55	150309	21	46907	136662	121237	28	43	4.34	40.77	89.76	336.59	5	272876	9	0	1	6
3830	2,4,7,11,13,15,23,26,31,34,38,41,45,55	165292	25	74227	144236	114620	33	48	4.74	45.12	109.81	355.85	5	328878	9	0	1	6
3831	2,4,7,11,13,15,23,26,31,34,38,43,47,46,48,51	156868	23	62358	150018	104844	31	48	4.34	38.88	86.71	367.59	7	294341	9	0	1	6
3832	2,4,7,11,13,15,23,26,31,34,38,43,47,46,48,52,53,54	153993	23	50778	147144	112078	29	47	4.46	39.29	86.71	358.90	6	263342	9	0	1	6
3833	2,4,7,11,13,15,23,26,31,34,38,43,47,49,53,54	145818	24	22578	138968	123543	29	43	4.83	39.69	89.29	328.80	6	239596	9	0	1	6
3834	2,4,7,11,13,15,23,26,31,34,38,43,50,54	144939	22	21946	138089	122664	29	44	4.46	41.60	90.37	322.21	5	236822	9	0	1	6
3835	2,4,7,11,13,15,23,26,33,37,40,41,44,55	150535	19	47069	136727	106762	29	44	4.08	38.71	89.89	337.26	5	275547	9	0	1	1
3836	2,4,7,11,13,15,23,26,33,37,40,41,45,55	165519	23	74389	144301	100145	34	49	4.49	43.06	109.94	356.51	5	331549	9	0	1	1
3837	2,4,7,11,13,15,23,26,33,37,40,43,47,46,48,51	157094	23	62520	150083	90369	32	49	4.08	36.83	86.85	368.10	7	297012	9	0	1	1
3838	2,4,7,11,13,15,23,26,33,37,40,43,47,46,48,52,53,54	154220	23	50939	147209	97603	30	48	4.21	37.23	86.85	359.41	6	266013	9	0	1	1
3839	2,4,7,11,13,15,23,26,33,37,40,43,47,49,53,54	146045	24	22740	139033	109068	30	44	4.57	37.64	89.42	329.31	6	242268	9	0	1	1
3840	2,4,7,11,13,15,23,26,33,37,40,43,50,54	145166	22	22108	138154	108189	30	45	4.21	39.55	90.50	322.71	5	239494	9	0	1	1
3841	2,4,7,11,13,15,23,26,33,37,42,46,48,51	155928	20	61313	149492	89778	30	49	4.08	36.83	86.03	367.10	7	292296	9	0	1	1
3842	2,4,7,11,13,15,23,26,33,37,42,46,48,52,53,54	153054	20	49733	146617	97012	28	48	4.21	37.23	86.03	358.41	6	261297	9	0	1	1
3843	2,4,7,11,13,15,23,26,33,37,42,47,50,54	145262	21	22165	138826	108861	30	45	4.21	39.55	91.77	323.33	5	239830	9	0	1	1
3844	2,4,7,11,13,15,23,26,33,37,42,49,53,54	144878	20	21533	138442	108477	28	44	4.57	37.64	88.61	328.31	6	237551	9	0	1	1
3845	2,4,7,11,13,15,23,27,28,31,30,32,46,47,50,54	167490	28	75814	136956	110768	34	54	3.79	43.81	113.91	353.59	5	372645	20	0	0	5
3846	2,4,7,11,13,15,23,27,28,31,30,32,46,49,53,54	167106	27	75182	136572	110384	32	53	4.15	41.91	110.75	357.99	6	370366	20	0	0	5
3847	2,4,7,11,13,15,23,27,28,31,30,32,48,51	162698	25	99505	132164	84081	34	56	3.66	41.09	108.18	344.14	5	402849	20	0	0	5
3848	2,4,7,11,13,15,23,27,28,31,30,32,48,52,53,54	159824	25	87925	129290	91315	32	55	3.79	41.50	108.18	335.45	4	371849	20	0	0	5
3849	2,4,7,11,13,15,23,27,28,31,33,37,40,41,44,55	150846	21	45750	136927	109528	29	44	4.08	37.55	99.04	330.22	5	273384	9	0	0	1
3850	2,4,7,11,13,15,23,27,28,31,33,37,40,41,45,55	165830	25	73069	144501	102911	34	49	4.49	41.90	119.09	349.47	5	329387	9	0	0	1
3851	2,4,7,11,13,15,23,27,28,31,33,37,40,43,47,46,48,51	157405	25	61200	150283	93135	32	49	4.08	35.67	95.99	361.06	7	294850	9	0	0	1
3852	2,4,7,11,13,15,23,27,28,31,33,37,40,43,47,46,48,52,53,54	154531	25	49620	147409	100369	30	48	4.21	36.07	95.99	352.37	6	263851	9	0	0	1
3853	2,4,7,11,13,15,23,27,28,31,33,37,40,43,47,49,53,54	146356	26	21420	139233	111834	30	44	4.57	36.48	98.56	322.27	6	240105	9	0	0	1
3854	2,4,7,11,13,15,23,27,28,31,33,37,40,43,50,54	145477	24	20789	138354	110955	30	45	4.21	38.39	99.64	315.68	5	237331	9	0	0	1
3855	2,4,7,11,13,15,23,27,28,31,33,37,42,46,48,51	156239	22	59993	149692	92544	30	49	4.08	35.67	95.18	360.06	7	290133	9	0	0	1
3856	2,4,7,11,13,15,23,27,28,31,33,37,42,46,48,52,53,54	153365	22	48413	146817	99778	28	48	4.21	36.07	95.18	351.37	6	259134	9	0	0	1
3857	2,4,7,11,13,15,23,27,28,31,33,37,42,47,50,54	145573	23	20845	139026	111627	30	45	4.21	38.39	100.91	316.29	5	237668	9	0	0	1
3858	2,4,7,11,13,15,23,27,28,31,33,37,42,49,53,54	145189	22	20214	138642	111243	28	44	4.57	36.48	97.75	321.27	6	235389	9	0	0	1
3859	2,4,7,11,13,15,23,27,28,34,35,37,40,41,44,55	150596	21	45949	137090	114345	29	43	4.08	38.54	97.99	329.53	5	270538	9	0	0	1
3860	2,4,7,11,13,15,23,27,28,34,35,37,40,41,45,55	165579	25	73269	144663	107728	34	48	4.49	42.89	118.04	348.79	5	326540	9	0	0	1
3861	2,4,7,11,13,15,23,27,28,34,35,37,40,43,47,46,48,51	157155	25	61400	150446	97952	32	48	4.08	36.66	94.95	360.37	7	292003	9	0	0	1
3862	2,4,7,11,13,15,23,27,28,34,35,37,40,43,47,46,48,52,53,54	154280	25	49820	147571	105186	30	47	4.21	37.06	94.95	351.68	6	261004	9	0	0	1
3863	2,4,7,11,13,15,23,27,28,34,35,37,40,43,47,49,53,54	146105	26	21620	139396	116651	30	43	4.57	37.47	97.52	321.58	6	237258	9	0	0	1
3864	2,4,7,11,13,15,23,27,28,34,35,37,40,43,50,54	145226	24	20988	138517	115772	30	44	4.21	39.38	98.60	314.99	5	234484	9	0	0	1
3865	2,4,7,11,13,15,23,27,28,34,35,37,42,46,48,51	155988	22	60193	149854	97360	30	48	4.08	36.66	94.13	359.37	7	287286	9	0	0	1
3866	2,4,7,11,13,15,23,27,28,34,35,37,42,46,48,52,53,54	153114	22	48613	146980	104595	28	47	4.21	37.06	94.13	350.68	6	256287	9	0	0	1
3867	2,4,7,11,13,15,23,27,28,34,35,37,42,47,50,54	145323	23	21045	139189	116444	30	44	4.21	39.38	99.87	315.60	5	234821	9	0	0	1
3868	2,4,7,11,13,15,23,27,28,34,35,37,42,49,53,54	144939	22	20413	138805	116060	28	43	4.57	37.47	96.71	320.58	6	232542	9	0	0	1
3869	2,4,7,11,13,15,23,27,28,34,36,39,41,40,42,46,48,51	167735	25	96853	151754	89043	30	51	4.18	36.56	142.97	330.28	7	353949	9	0	0	1
3870	2,4,7,11,13,15,23,27,28,34,36,39,41,40,42,46,48,52,53,54	164860	25	85273	148880	96277	28	50	4.31	36.96	142.97	321.59	6	322950	9	0	0	1
3871	2,4,7,11,13,15,23,27,28,34,36,39,41,40,42,47,50,54	157069	26	57705	141089	108126	30	47	4.31	39.28	148.71	286.51	5	301484	9	0	0	1
3872	2,4,7,11,13,15,23,27,28,34,36,39,41,40,42,49,53,54	156685	25	57073	140705	107742	28	46	4.67	37.37	145.55	291.49	6	299205	9	0	0	1
3873	2,4,7,11,13,15,23,27,28,34,36,39,41,43,47,46,48,51	167751	26	96909	152346	89634	30	51	4.18	36.56	143.79	330.42	7	354205	9	0	0	1
3874	2,4,7,11,13,15,23,27,28,34,36,39,41,43,47,46,48,52,53,54	164877	26	85329	149471	96868	28	50	4.31	36.96	143.79	321.73	6	323206	9	0	0	1
3875	2,4,7,11,13,15,23,27,28,34,36,39,41,43,47,49,53,54	156701	27	57130	141296	108333	28	46	4.67	37.37	146.36	291.63	6	299461	9	0	0	1
3876	2,4,7,11,13,15,23,27,28,34,36,39,41,43,50,54	155822	25	56498	140417	107454	28	47	4.31	39.28	147.44	285.04	5	296687	9	0	0	1

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
3877	2,4,7,11,13,15,23,27,28,34,36,39,44,55	147598	20	67865	138990	106027	27	42	4.18	38.44	146.83	280.89	5	292662	9	0	0	1
3878	2,4,7,11,13,15,23,27,28,34,36,39,45,55	162582	24	95184	146563	99410	32	47	4.59	42.79	166.88	300.15	5	348664	9	0	0	1
3879	2,4,7,11,13,15,23,27,28,34,38,40,42,46,48,51	156336	22	60155	149627	107019	31	48	4.34	37.72	94.43	358.29	7	287789	9	0	0	6
3880	2,4,7,11,13,15,23,27,28,34,38,40,42,46,48,52,53,54	153462	22	48575	146753	114253	29	47	4.46	38.12	94.43	349.60	6	256790	9	0	0	6
3881	2,4,7,11,13,15,23,27,28,34,38,40,42,47,50,54	145670	23	21007	138961	126102	31	44	4.46	40.44	100.16	314.52	5	235324	9	0	0	6
3882	2,4,7,11,13,15,23,27,28,34,38,40,42,49,53,54	145286	22	20376	138577	125718	29	43	4.83	38.53	97.00	319.50	6	233045	9	0	0	6
3883	2,4,7,11,13,15,23,27,28,34,38,41,44,55	149793	19	44761	136862	124003	28	43	4.34	39.60	98.28	327.44	5	266580	9	0	0	6
3884	2,4,7,11,13,15,23,27,28,34,38,41,45,55	164777	23	72081	144436	117387	33	48	4.74	43.95	118.34	346.69	5	322582	9	0	0	6
3885	2,4,7,11,13,15,23,27,28,34,38,43,47,46,48,51	156352	21	60212	150218	107610	31	48	4.34	37.72	95.24	358.44	7	288045	9	0	0	6
3886	2,4,7,11,13,15,23,27,28,34,38,43,47,46,48,52,53,54	153478	21	48631	147344	114844	29	47	4.46	38.12	95.24	349.75	6	257046	9	0	0	6
3887	2,4,7,11,13,15,23,27,28,34,38,43,47,49,53,54	145303	22	20432	139169	126309	29	43	4.83	38.53	97.81	319.65	6	233301	9	0	0	6
3888	2,4,7,11,13,15,23,27,28,34,38,43,50,54	144423	20	19800	138289	125430	29	44	4.46	40.44	98.89	313.05	5	230527	9	0	0	6
3889	2,4,7,11,13,16,18,19,22,24,29,36,35,37,40,41,44,55	165065	25	83891	138866	103291	31	48	3.29	38.58	94.97	355.54	5	379469	51.5	0	0	1
3890	2,4,7,11,13,16,18,19,22,24,29,36,35,37,40,41,45,55	180049	29	111210	146440	96674	36	53	3.70	42.93	115.02	374.80	5	435471	51.5	0	0	1
3891	2,4,7,11,13,16,18,19,22,24,29,36,35,37,40,43,47,46,48,51	171624	29	99341	152223	86898	34	53	3.29	36.70	91.92	386.39	7	400934	51.5	0	0	1
3892	2,4,7,11,13,16,18,19,22,24,29,36,35,37,40,43,47,46,48,52,53,54	168750	29	87761	149348	94132	32	52	3.42	37.10	91.92	377.70	6	369935	51.5	0	0	1
3893	2,4,7,11,13,16,18,19,22,24,29,36,35,37,40,43,47,49,53,54	160575	30	59561	141173	105597	32	48	3.78	37.51	94.49	347.60	6	346189	51.5	0	0	1
3894	2,4,7,11,13,16,18,19,22,24,29,36,35,37,40,43,50,54	159696	28	58930	140294	104718	32	49	3.42	39.42	95.57	341.00	5	343415	51.5	0	0	1
3895	2,4,7,11,13,16,18,19,22,24,29,36,35,37,42,46,48,51	170458	26	98134	151631	86307	32	53	3.29	36.70	91.11	385.39	7	396217	51.5	0	0	1
3896	2,4,7,11,13,16,18,19,22,24,29,36,35,37,42,46,48,52,53,54	167584	26	86554	148757	93541	30	52	3.42	37.10	91.11	376.70	6	365218	51.5	0	0	1
3897	2,4,7,11,13,16,18,19,22,24,29,36,35,37,42,47,50,54	159792	27	58986	140966	105390	32	49	3.42	39.42	96.84	341.61	5	343752	51.5	0	0	1
3898	2,4,7,11,13,16,18,19,22,24,29,36,35,37,42,49,53,54	159408	26	58355	140582	105006	30	48	3.78	37.51	93.68	346.60	6	341473	51.5	0	0	1
3899	2,4,7,11,13,16,18,19,22,24,29,36,38,40,42,46,48,51	170806	27	98097	151404	95965	33	53	3.55	37.76	91.40	384.28	7	396720	51.5	0	0	6
3900	2,4,7,11,13,16,18,19,22,24,29,36,38,40,42,46,48,52,53,54	167931	27	86516	148529	103199	31	52	3.68	38.16	91.40	375.59	6	365721	51.5	0	0	6
3901	2,4,7,11,13,16,18,19,22,24,29,36,38,40,42,47,50,54	160140	28	58948	140738	115048	33	49	3.68	40.48	97.13	340.51	5	344255	51.5	0	0	6
3902	2,4,7,11,13,16,18,19,22,24,29,36,38,40,42,49,53,54	159756	27	58317	140354	114664	31	48	4.04	38.57	93.97	345.49	6	341976	51.5	0	0	6
3903	2,4,7,11,13,16,18,19,22,24,29,36,38,41,44,55	164263	24	82702	138639	112949	30	48	3.55	39.64	95.26	353.42	5	375511	51.5	0	0	6
3904	2,4,7,11,13,16,18,19,22,24,29,36,38,41,45,55	179247	28	110022	146213	106333	35	53	3.96	43.99	115.31	372.68	5	431513	51.5	0	0	6
3905	2,4,7,11,13,16,18,19,22,24,29,36,38,43,47,46,48,51	170822	26	98153	151995	96557	33	53	3.55	37.76	92.21	384.42	7	396976	51.5	0	0	6
3906	2,4,7,11,13,16,18,19,22,24,29,36,38,43,47,46,48,52,53,54	167947	26	86573	149121	103791	31	52	3.68	38.16	92.21	375.73	6	365977	51.5	0	0	6
3907	2,4,7,11,13,16,18,19,22,24,29,36,38,43,47,49,53,54	159772	27	58373	140945	115256	31	48	4.04	38.57	94.79	345.63	6	342232	51.5	0	0	6
3908	2,4,7,11,13,16,18,19,22,24,29,36,38,43,50,54	158893	25	57742	140066	114377	31	49	3.68	40.48	95.87	339.04	5	339458	51.5	0	0	6
3909	2,4,7,11,13,16,18,19,22,24,29,39,41,40,42,46,48,51	172576	26	125166	148852	77989	30	56	3.39	36.60	124.10	349.69	7	427325	51.5	0	0	1
3910	2,4,7,11,13,16,18,19,22,24,29,39,41,40,42,46,48,52,53,54	169702	26	113586	145978	85223	28	55	3.52	37.00	124.10	341.00	6	396326	51.5	0	0	1
3911	2,4,7,11,13,16,18,19,22,24,29,39,41,40,42,47,50,54	161911	27	86018	138186	97072	30	52	3.52	39.32	129.83	305.92	5	374859	51.5	0	0	1
3912	2,4,7,11,13,16,18,19,22,24,29,39,41,40,42,49,53,54	161527	26	85386	137803	96688	28	51	3.88	37.41	126.67	310.90	6	372580	51.5	0	0	1
3913	2,4,7,11,13,16,18,19,22,24,29,39,41,43,47,46,48,51	172593	27	125223	149443	78580	30	56	3.39	36.60	124.91	349.83	7	427581	51.5	0	0	1
3914	2,4,7,11,13,16,18,19,22,24,29,39,41,43,47,46,48,52,53,54	169718	27	113642	146569	85815	28	55	3.52	37.00	124.91	341.14	6	396582	51.5	0	0	1
3915	2,4,7,11,13,16,18,19,22,24,29,39,41,43,47,49,53,54	161543	28	85443	138394	97280	28	51	3.88	37.41	127.49	311.04	6	372836	51.5	0	0	1
3916	2,4,7,11,13,16,18,19,22,24,29,39,41,43,50,54	160664	26	84811	137515	96400	28	52	3.52	39.32	128.57	304.45	5	370062	51.5	0	0	1
3917	2,4,7,11,13,16,18,19,22,24,29,39,44,55	152440	21	96178	136087	94973	27	47	3.39	38.48	127.96	300.30	5	366037	51.5	0	0	1
3918	2,4,7,11,13,16,18,19,22,24,29,39,45,55	167423	25	123498	143661	88357	32	52	3.80	42.83	148.01	319.56	5	422039	51.5	0	0	1
3919	2,4,7,11,13,16,18,19,22,25,29,36,35,37,40,41,44,55	163173	24	81998	135646	107771	31	49	3.31	37.14	96.69	345.58	5	375741	52	0	0	1
3920	2,4,7,11,13,16,18,19,22,25,29,36,35,37,40,41,45,55	178157	28	109318	143220	101154	36	54	3.71	41.49	116.74	364.84	5	431743	52	0	0	1
3921	2,4,7,11,13,16,18,19,22,25,29,36,35,37,40,43,47,46,48,51	169732	28	97449	149002	91378	34	54	3.31	35.26	93.65	376.42	7	397206	52	0	0	1
3922	2,4,7,11,13,16,18,19,22,25,29,36,35,37,40,43,47,46,48,52,53,54	166858	28	85869	146128	98612	32	53	3.43	35.66	93.65	367.73	6	366207	52	0	0	1
3923	2,4,7,11,13,16,18,19,22,25,29,36,35,37,40,43,47,49,53,54	158682	29	57669	137952	110077	32	49	3.80	36.07	96.22	337.63	6	342462	52	0	0	1
3924	2,4,7,11,13,16,18,19,22,25,29,36,35,37,40,43,50,54	157803	27	57037	137073	109198	32	50	3.43	37.98	97.30	331.04	5	339688	52	0	0	1
3925	2,4,7,11,13,16,18,19,22,25,29,36,35,37,42,46,48,51	168566	25	96242	148411	90787	32	54	3.31	35.26	92.83	375.42	7	392490	52	0	0	1
3926	2,4,7,11,13,16,18,19,22,25,29,36,35,37,42,46,48,52,53,54	165691	25	84662	145536	98021	30	53	3.43	35.66	92.83	366.73	6	361490	52	0	0	1
3927	2,4,7,11,13,16,18,19,22,25,29,36,35,37,42,47,50,54	157900	26	57094	137745	109870	32	50	3.43	37.98	98.57	331.65	5	340024	52	0	0	1

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
3928	2,4,7,11,13,16,18,19,22,25,29,36,35,37,42,49,53,54	157516	25	56462	137361	109486	30	49	3.80	36.07	95.40	336.63	6	337745	52	0	0	1
3929	2,4,7,11,13,16,18,19,22,25,29,36,38,40,42,46,48,51	168913	26	96204	148183	100445	33	54	3.57	36.32	93.12	374.31	7	392993	52	0	0	6
3930	2,4,7,11,13,16,18,19,22,25,29,36,38,40,42,46,48,52,53,54	166039	26	84624	145309	107679	31	53	3.69	36.72	93.12	365.62	6	361993	52	0	0	6
3931	2,4,7,11,13,16,18,19,22,25,29,36,38,40,42,47,50,54	158248	27	57056	137518	119528	33	50	3.69	39.04	98.86	330.54	5	340527	52	0	0	6
3932	2,4,7,11,13,16,18,19,22,25,29,36,38,40,42,49,53,54	157864	26	56425	137134	119144	31	49	4.06	37.13	95.70	335.52	6	338248	52	0	0	6
3933	2,4,7,11,13,16,18,19,22,25,29,36,38,41,44,55	162370	23	80810	135419	117429	30	49	3.57	38.20	96.98	343.46	5	371783	52	0	0	6
3934	2,4,7,11,13,16,18,19,22,25,29,36,38,41,45,55	177354	27	108130	142992	110813	35	54	3.97	42.55	117.03	362.72	5	427786	52	0	0	6
3935	2,4,7,11,13,16,18,19,22,25,29,36,38,43,47,46,48,51	168930	25	96261	148775	101036	33	54	3.57	36.32	93.94	374.46	7	393248	52	0	0	6
3936	2,4,7,11,13,16,18,19,22,25,29,36,38,43,47,46,48,52,53,54	166055	25	84680	145900	108271	31	53	3.69	36.72	93.94	365.77	6	362249	52	0	0	6
3937	2,4,7,11,13,16,18,19,22,25,29,36,38,43,47,49,53,54	157880	26	56481	137725	119736	31	49	4.06	37.13	96.51	335.67	6	338504	52	0	0	6
3938	2,4,7,11,13,16,18,19,22,25,29,36,38,43,50,54	157001	24	55849	136846	118856	31	50	3.69	39.04	97.59	329.07	5	335730	52	0	0	6
3939	2,4,7,11,13,16,18,19,22,25,29,39,41,40,42,46,48,51	170684	25	123274	145632	82469	30	57	3.41	35.16	125.82	339.73	7	423597	52	0	0	1
3940	2,4,7,11,13,16,18,19,22,25,29,39,41,40,42,46,48,52,53,54	167810	25	111694	142757	89703	28	56	3.53	35.56	125.82	331.04	6	392598	52	0	0	1
3941	2,4,7,11,13,16,18,19,22,25,29,39,41,40,42,47,50,54	160018	26	84126	134966	101552	30	53	3.53	37.88	131.56	295.96	5	371131	52	0	0	1
3942	2,4,7,11,13,16,18,19,22,25,29,39,41,40,42,49,53,54	159634	25	83494	134582	101168	28	52	3.90	35.97	128.40	300.94	6	368853	52	0	0	1
3943	2,4,7,11,13,16,18,19,22,25,29,39,41,43,47,46,48,51	170700	26	123330	146223	83060	30	57	3.41	35.16	126.64	339.87	7	423853	52	0	0	1
3944	2,4,7,11,13,16,18,19,22,25,29,39,41,43,47,46,48,52,53,54	167826	26	111750	143349	90294	28	56	3.53	35.56	126.64	331.18	6	392854	52	0	0	1
3945	2,4,7,11,13,16,18,19,22,25,29,39,41,43,47,49,53,54	159651	27	83551	135173	101759	28	52	3.90	35.97	129.21	301.08	6	369108	52	0	0	1
3946	2,4,7,11,13,16,18,19,22,25,29,39,41,43,50,54	158771	25	82919	134294	100880	28	53	3.53	37.88	130.29	294.49	5	366334	52	0	0	1
3947	2,4,7,11,13,16,18,19,22,25,29,39,44,55	150547	20	94286	132867	99453	27	48	3.41	37.04	129.68	290.34	5	362309	52	0	0	1
3948	2,4,7,11,13,16,18,19,22,25,29,39,45,55	165531	24	121605	140441	92837	32	53	3.82	41.39	149.73	309.60	5	418312	52	0	0	1
3949	2,4,7,11,13,16,18,21,27,26,30,32,46,47,50,54	167916	31	76073	140535	112169	36	56	3.25	43.97	93.78	378.10	5	378208	32.5	0	1	5
3950	2,4,7,11,13,16,18,21,27,26,30,32,46,49,53,54	167532	30	75442	140151	111785	34	55	3.62	42.06	90.62	382.50	6	375930	32.5	0	1	5
3951	2,4,7,11,13,16,18,21,27,26,30,32,48,51	163125	28	99764	135743	85482	36	58	3.13	41.25	88.05	368.66	5	408412	32.5	0	1	5
3952	2,4,7,11,13,16,18,21,27,26,30,32,48,52,53,54	160250	28	88184	132869	92716	34	57	3.25	41.65	88.05	359.97	4	377413	32.5	0	1	5
3953	2,4,7,11,13,16,18,21,27,26,31,34,35,37,40,41,44,55	151848	26	47035	140669	115745	31	45	3.54	38.70	78.48	356.22	5	280234	21.5	0	1	1
3954	2,4,7,11,13,16,18,21,27,26,31,34,35,37,40,41,45,55	166832	30	74355	148242	109129	36	50	3.95	43.05	98.54	375.47	5	336237	21.5	0	1	1
3955	2,4,7,11,13,16,18,21,27,26,31,34,35,37,40,43,47,46,48,51	158408	30	62486	154025	99353	34	50	3.54	36.82	75.44	387.06	7	301700	21.5	0	1	1
3956	2,4,7,11,13,16,18,21,27,26,31,34,35,37,40,43,47,46,48,52,53,54	155533	30	50906	151150	106587	32	49	3.67	37.22	75.44	378.37	6	270701	21.5	0	1	1
3957	2,4,7,11,13,16,18,21,27,26,31,34,35,37,40,43,47,49,53,54	147358	31	22706	142975	118052	32	45	4.04	37.63	78.01	348.27	6	246955	21.5	0	1	1
3958	2,4,7,11,13,16,18,21,27,26,31,34,35,37,40,43,50,54	146479	29	22074	142096	117172	32	46	3.67	39.54	79.09	341.68	5	244181	21.5	0	1	1
3959	2,4,7,11,13,16,18,21,27,26,31,34,35,37,42,46,48,51	157241	27	61279	153433	98761	32	50	3.54	36.82	74.63	386.06	7	296983	21.5	0	1	1
3960	2,4,7,11,13,16,18,21,27,26,31,34,35,37,42,46,48,52,53,54	154367	27	49699	150559	105995	30	49	3.67	37.22	74.63	377.37	6	265984	21.5	0	1	1
3961	2,4,7,11,13,16,18,21,27,26,31,34,35,37,42,47,50,54	146575	28	22131	142768	117844	32	46	3.67	39.54	80.36	342.29	5	244518	21.5	0	1	1
3962	2,4,7,11,13,16,18,21,27,26,31,34,35,37,42,49,53,54	146191	27	21499	142384	117460	30	45	4.04	37.63	77.20	347.27	6	242239	21.5	0	1	1
3963	2,4,7,11,13,16,18,21,27,26,31,34,36,39,41,40,42,46,48,51	168988	30	97939	155333	90444	32	53	3.65	36.72	123.47	356.97	7	363646	21.5	0	1	1
3964	2,4,7,11,13,16,18,21,27,26,31,34,36,39,41,40,42,46,48,52,53,54	166113	30	86359	152459	97678	30	52	3.77	37.12	123.47	348.28	6	332647	21.5	0	1	1
3965	2,4,7,11,13,16,18,21,27,26,31,34,36,39,41,40,42,47,50,54	158322	31	58791	144668	109527	32	49	3.77	39.44	129.20	313.20	5	311180	21.5	0	1	1
3966	2,4,7,11,13,16,18,21,27,26,31,34,36,39,41,40,42,49,53,54	157938	30	58159	144284	109143	30	48	4.14	37.53	126.04	318.18	6	308902	21.5	0	1	1
3967	2,4,7,11,13,16,18,21,27,26,31,34,36,39,41,43,47,46,48,51	169004	31	97995	155925	91035	32	53	3.65	36.72	124.28	357.11	7	363902	21.5	0	1	1
3968	2,4,7,11,13,16,18,21,27,26,31,34,36,39,41,43,47,46,48,52,53,54	166129	31	86415	153050	98269	30	52	3.77	37.12	124.28	348.42	6	332903	21.5	0	1	1
3969	2,4,7,11,13,16,18,21,27,26,31,34,36,39,41,43,47,49,53,54	157954	32	58216	144875	109734	30	48	4.14	37.53	126.85	318.32	6	309158	21.5	0	1	1
3970	2,4,7,11,13,16,18,21,27,26,31,34,36,39,41,43,50,54	157075	30	57584	143996	108855	30	49	3.77	39.44	127.93	311.73	5	306384	21.5	0	1	1
3971	2,4,7,11,13,16,18,21,27,26,31,34,36,39,44,55	148851	25	68951	142568	107428	29	44	3.65	38.60	127.32	307.58	5	302358	21.5	0	1	1
3972	2,4,7,11,13,16,18,21,27,26,31,34,36,39,45,55	163835	29	96270	150142	100811	34	49	4.05	42.95	147.38	326.84	5	358361	21.5	0	1	1
3973	2,4,7,11,13,16,18,21,27,26,31,34,38,40,42,46,48,51	157589	27	61241	153206	108420	33	50	3.80	37.88	74.92	384.98	7	297486	21.5	0	1	6
3974	2,4,7,11,13,16,18,21,27,26,31,34,38,40,42,46,48,52,53,54	154714	27	49661	150332	115654	31	49	3.93	38.28	74.92	376.29	6	266487	21.5	0	1	6
3975	2,4,7,11,13,16,18,21,27,26,31,34,38,40,42,47,50,54	146923	28	22093	142540	127503	33	46	3.93	40.60	80.65	341.21	5	245021	21.5	0	1	6
3976	2,4,7,11,13,16,18,21,27,26,31,34,38,40,42,49,53,54	146539	27	21461	142156	127119	31	45	4.29	38.69	77.49	346.19	6	242742	21.5	0	1	6
3977	2,4,7,11,13,16,18,21,27,26,31,34,38,41,44,55	151046	24	45847	140441	125404	30	45	3.80	39.76	78.77	354.13	5	276277	21.5	0	1	6
3978	2,4,7,11,13,16,18,21,27,26,31,34,38,41,45,55	166030	28	73167	148015	118787	35	50	4.21	44.11	98.83	373.38	5	332279	21.5	0	1	6

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
3979	2,4,7,11,13,16,18,21,27,26,31,34,38,43,47,46,48,51	157605	26	61298	153797	109011	33	50	3.80	37.88	75.73	385.12	7	297742	21.5	0	1	6
3980	2,4,7,11,13,16,18,21,27,26,31,34,38,43,47,46,48,52,53,54	154731	26	49717	150923	116245	31	49	3.93	38.28	75.73	376.43	6	266743	21.5	0	1	6
3981	2,4,7,11,13,16,18,21,27,26,31,34,38,43,47,49,53,54	146555	27	21518	142748	127710	31	45	4.29	38.69	78.30	346.33	6	242998	21.5	0	1	6
3982	2,4,7,11,13,16,18,21,27,26,31,34,38,43,50,54	145676	25	20886	141868	126831	31	46	3.93	40.60	79.38	339.74	5	240224	21.5	0	1	6
3983	2,4,7,11,13,16,18,21,27,26,33,37,40,41,44,55	151272	22	46009	140506	110929	31	46	3.54	37.71	78.91	354.79	5	278948	21.5	0	1	1
3984	2,4,7,11,13,16,18,21,27,26,33,37,40,41,45,55	166256	26	73328	148080	104312	36	51	3.95	42.06	98.96	374.04	5	334951	21.5	0	1	1
3985	2,4,7,11,13,16,18,21,27,26,33,37,40,43,47,46,48,51	157832	26	61459	153862	94536	34	51	3.54	35.83	75.86	385.63	7	300413	21.5	0	1	1
3986	2,4,7,11,13,16,18,21,27,26,33,37,40,43,47,46,48,52,53,54	154957	26	49879	150988	101770	32	50	3.67	36.23	75.86	376.94	6	269414	21.5	0	1	1
3987	2,4,7,11,13,16,18,21,27,26,33,37,40,43,47,49,53,54	146782	27	21680	142812	113235	32	46	4.04	36.64	78.44	346.84	6	245669	21.5	0	1	1
3988	2,4,7,11,13,16,18,21,27,26,33,37,40,43,50,54	145903	25	21048	141933	112356	32	47	3.67	38.55	79.52	340.25	5	242895	21.5	0	1	1
3989	2,4,7,11,13,16,18,21,27,26,33,37,42,46,48,51	156665	23	60253	153271	93945	32	51	3.54	35.83	75.05	384.63	7	295697	21.5	0	1	1
3990	2,4,7,11,13,16,18,21,27,26,33,37,42,46,48,52,53,54	153791	23	48673	150396	101179	30	50	3.67	36.23	75.05	375.94	6	264698	21.5	0	1	1
3991	2,4,7,11,13,16,18,21,27,26,33,37,42,47,50,54	145999	24	21105	142605	113028	32	47	3.67	38.55	80.78	340.86	5	243231	21.5	0	1	1
3992	2,4,7,11,13,16,18,21,27,26,33,37,42,49,53,54	145615	23	20473	142221	112644	30	46	4.04	36.64	77.62	345.84	6	240953	21.5	0	1	1
3993	2,4,7,11,13,16,18,21,28,31,30,32,46,47,50,54	167274	29	73800	140735	114935	36	56	3.25	42.81	99.83	371.12	5	372232	32.5	0	0	5
3994	2,4,7,11,13,16,18,21,28,31,30,32,46,49,53,54	166890	28	73169	140351	114551	34	55	3.62	40.90	96.67	375.52	6	369953	32.5	0	0	5
3995	2,4,7,11,13,16,18,21,28,31,30,32,48,51	162482	26	97491	135944	88248	36	58	3.13	40.09	94.10	361.68	5	402436	32.5	0	0	5
3996	2,4,7,11,13,16,18,21,28,31,30,32,48,52,53,54	159608	26	85911	133069	95482	34	57	3.25	40.49	94.10	352.98	4	371437	32.5	0	0	5
3997	2,4,7,11,13,16,18,21,28,31,33,37,40,41,44,55	150630	22	43736	140706	113695	31	46	3.54	36.55	84.96	347.75	5	272972	21.5	0	0	1
3998	2,4,7,11,13,16,18,21,28,31,33,37,40,41,45,55	165614	26	71055	148280	107078	36	51	3.95	40.90	105.01	367.01	5	328974	21.5	0	0	1
3999	2,4,7,11,13,16,18,21,28,31,33,37,40,43,47,46,48,51	157189	26	59186	154062	97302	34	51	3.54	34.66	81.91	378.59	7	294437	21.5	0	0	1
4000	2,4,7,11,13,16,18,21,28,31,33,37,40,43,47,46,48,52,53,54	154315	26	47606	151188	104536	32	50	3.67	35.07	81.91	369.90	6	263438	21.5	0	0	1
4001	2,4,7,11,13,16,18,21,28,31,33,37,40,43,47,49,53,54	146139	27	19407	143013	116001	32	46	4.04	35.48	84.49	339.80	6	239693	21.5	0	0	1
4002	2,4,7,11,13,16,18,21,28,31,33,37,40,43,50,54	145260	25	18775	142133	115122	32	47	3.67	37.39	85.57	333.21	5	236919	21.5	0	0	1
4003	2,4,7,11,13,16,18,21,28,31,33,37,42,46,48,51	156023	23	57980	153471	96711	32	51	3.54	34.66	81.10	377.59	7	289720	21.5	0	0	1
4004	2,4,7,11,13,16,18,21,28,31,33,37,42,46,48,52,53,54	153148	23	46400	150597	103945	30	50	3.67	35.07	81.10	368.90	6	258721	21.5	0	0	1
4005	2,4,7,11,13,16,18,21,28,31,33,37,42,47,50,54	145357	24	18832	142805	115794	32	47	3.67	37.39	86.83	333.82	5	237255	21.5	0	0	1
4006	2,4,7,11,13,16,18,21,28,31,33,37,42,49,53,54	144973	23	18200	142421	115410	30	46	4.04	35.48	83.67	338.80	6	234976	21.5	0	0	1
4007	2,4,7,11,13,16,18,21,28,34,35,37,40,41,44,55	150379	22	43936	140869	118511	31	45	3.54	37.54	83.91	347.06	5	270125	21.5	0	0	1
4008	2,4,7,11,13,16,18,21,28,34,35,37,40,41,45,55	165363	26	71255	148443	111895	36	50	3.95	41.89	103.97	366.32	5	326127	21.5	0	0	1
4009	2,4,7,11,13,16,18,21,28,34,35,37,40,43,47,46,48,51	156938	26	59386	154225	102119	34	50	3.54	35.66	80.87	377.90	7	291590	21.5	0	0	1
4010	2,4,7,11,13,16,18,21,28,34,35,37,40,43,47,46,48,52,53,54	154064	26	47806	151351	109353	32	49	3.67	36.06	80.87	369.21	6	260591	21.5	0	0	1
4011	2,4,7,11,13,16,18,21,28,34,35,37,40,43,47,49,53,54	145889	27	19606	143175	120818	32	45	4.04	36.47	83.44	339.11	6	236846	21.5	0	0	1
4012	2,4,7,11,13,16,18,21,28,34,35,37,40,43,50,54	145010	25	18975	142296	119939	32	46	3.67	38.38	84.52	332.52	5	234072	21.5	0	0	1
4013	2,4,7,11,13,16,18,21,28,34,35,37,42,46,48,51	155772	23	58179	153634	101527	32	50	3.54	35.66	80.06	376.90	7	286874	21.5	0	0	1
4014	2,4,7,11,13,16,18,21,28,34,35,37,42,46,48,52,53,54	152898	23	46599	150759	108762	30	49	3.67	36.06	80.06	368.21	6	255875	21.5	0	0	1
4015	2,4,7,11,13,16,18,21,28,34,35,37,42,47,50,54	145106	24	19031	142968	120611	32	46	3.67	38.38	85.79	333.13	5	234408	21.5	0	0	1
4016	2,4,7,11,13,16,18,21,28,34,35,37,42,49,53,54	144722	23	18400	142584	120227	30	45	4.04	36.47	82.63	338.11	6	232129	21.5	0	0	1
4017	2,4,7,11,13,16,18,21,28,34,36,39,41,40,42,46,48,51	167518	26	94839	155533	93210	32	53	3.65	35.56	128.90	347.81	7	353537	21.5	0	0	1
4018	2,4,7,11,13,16,18,21,28,34,36,39,41,40,42,46,48,52,53,54	164644	26	83259	152659	100444	30	52	3.77	35.96	128.90	339.12	6	322538	21.5	0	0	1
4019	2,4,7,11,13,16,18,21,28,34,36,39,41,40,42,47,50,54	156853	27	55691	144868	112293	32	49	3.77	38.28	134.63	304.04	5	301071	21.5	0	0	1
4020	2,4,7,11,13,16,18,21,28,34,36,39,41,40,42,49,53,54	156469	26	55060	144484	111909	30	48	4.14	36.37	131.47	309.02	6	298792	21.5	0	0	1
4021	2,4,7,11,13,16,18,21,28,34,36,39,41,43,47,46,48,51	167535	27	94896	156125	93801	32	53	3.65	35.56	129.71	347.95	7	353792	21.5	0	0	1
4022	2,4,7,11,13,16,18,21,28,34,36,39,41,43,47,46,48,52,53,54	164660	27	83316	153250	101035	30	52	3.77	35.96	129.71	339.26	6	322793	21.5	0	0	1
4023	2,4,7,11,13,16,18,21,28,34,36,39,41,43,47,49,53,54	156485	28	55116	145075	112500	30	48	4.14	36.37	132.28	309.16	6	299048	21.5	0	0	1
4024	2,4,7,11,13,16,18,21,28,34,36,39,41,43,50,54	155606	26	54484	144196	111621	30	49	3.77	38.28	133.36	302.57	5	296274	21.5	0	0	1
4025	2,4,7,11,13,16,18,21,28,34,36,39,44,55	147382	21	65851	142769	110194	29	44	3.65	37.44	132.75	298.42	5	292249	21.5	0	0	1
4026	2,4,7,11,13,16,18,21,28,34,36,39,45,55	162366	25	93171	150342	103577	34	49	4.05	41.79	152.81	317.68	5	348251	21.5	0	0	1
4027	2,4,7,11,13,16,18,21,28,34,38,40,42,46,48,51	156120	23	58142	153406	111186	33	50	3.80	36.72	80.35	375.82	7	287377	21.5	0	0	6
4028	2,4,7,11,13,16,18,21,28,34,38,40,42,46,48,52,53,54	153245	23	46561	150532	118420	31	49	3.93	37.12	80.35	367.13	6	256378	21.5	0	0	6
4029	2,4,7,11,13,16,18,21,28,34,38,40,42,47,50,54	145454	24	18993	142740	130269	33	46	3.93	39.44	86.08	332.05	5	234911	21.5	0	0	6

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
4030	2,4,7,11,13,16,18,21,28,34,38,40,42,49,53,54	145070	23	18362	142356	129885	31	45	4.29	37.53	82.92	337.03	6	232632	21.5	0	0	6
4031	2,4,7,11,13,16,18,21,28,34,38,41,44,55	149577	20	42747	140641	128170	30	45	3.80	38.60	84.21	344.97	5	266167	21.5	0	0	6
4032	2,4,7,11,13,16,18,21,28,34,38,41,45,55	164561	24	70067	148215	121553	35	50	4.21	42.95	104.26	364.22	5	322170	21.5	0	0	6
4033	2,4,7,11,13,16,18,21,28,34,38,43,47,46,48,51	156136	22	58198	153997	111777	33	50	3.80	36.72	81.16	375.97	7	287632	21.5	0	0	6
4034	2,4,7,11,13,16,18,21,28,34,38,43,47,46,48,52,53,54	153261	22	46618	151123	119011	31	49	3.93	37.12	81.16	367.28	6	256633	21.5	0	0	6
4035	2,4,7,11,13,16,18,21,28,34,38,43,47,49,53,54	145086	23	18418	142948	130476	31	45	4.29	37.53	83.73	337.18	6	232888	21.5	0	0	6
4036	2,4,7,11,13,16,18,21,28,34,38,43,50,54	144207	21	17787	142069	129597	31	46	3.93	39.44	84.82	330.58	5	230114	21.5	0	0	6
4037	2,4,7,11,13,16,20,23,26,30,32,46,47,50,54	167141	27	70750	142375	111709	34	54	3.74	45.73	104.76	365.96	5	357298	31	0	1	5
4038	2,4,7,11,13,16,20,23,26,30,32,46,49,53,54	166757	26	70119	141991	111325	32	53	4.10	43.82	101.60	370.36	6	355019	31	0	1	5
4039	2,4,7,11,13,16,20,23,26,30,32,48,51	162350	24	94441	137583	85022	34	56	3.61	43.01	99.02	356.51	5	387502	31	0	1	5
4040	2,4,7,11,13,16,20,23,26,30,32,48,52,53,54	159475	24	82861	134709	92256	32	55	3.74	43.41	99.02	347.82	4	356503	31	0	1	5
4041	2,4,7,11,13,16,20,23,26,31,34,35,37,40,41,44,55	151073	22	41712	142509	115285	29	43	4.03	40.46	89.46	344.07	5	259324	20	0	1	1
4042	2,4,7,11,13,16,20,23,26,31,34,35,37,40,41,45,55	166057	26	69032	150082	108669	34	48	4.44	44.81	109.51	363.33	5	315326	20	0	1	1
4043	2,4,7,11,13,16,20,23,26,31,34,35,37,40,43,47,46,48,51	157632	26	57163	155865	98893	32	48	4.03	38.58	86.41	374.92	7	280789	20	0	1	1
4044	2,4,7,11,13,16,20,23,26,31,34,35,37,40,43,47,46,48,52,53,54	154758	26	45583	152990	106127	30	47	4.15	38.98	86.41	366.22	6	249790	20	0	1	1
4045	2,4,7,11,13,16,20,23,26,31,34,35,37,40,43,47,49,53,54	146583	27	17383	144815	117592	30	43	4.52	39.39	88.99	336.13	6	226044	20	0	1	1
4046	2,4,7,11,13,16,20,23,26,31,34,35,37,40,43,50,54	145704	25	16752	143936	116713	30	44	4.15	41.30	90.07	329.53	5	223270	20	0	1	1
4047	2,4,7,11,13,16,20,23,26,31,34,35,37,42,46,48,51	156466	23	55956	155273	98301	30	48	4.03	38.58	85.60	373.92	7	276072	20	0	1	1
4048	2,4,7,11,13,16,20,23,26,31,34,35,37,42,46,48,52,53,54	153592	23	44376	152399	105535	28	47	4.15	38.98	85.60	365.22	6	245073	20	0	1	1
4049	2,4,7,11,13,16,20,23,26,31,34,35,37,42,47,50,54	145800	24	16808	144608	117385	30	44	4.15	41.30	91.33	330.14	5	223607	20	0	1	1
4050	2,4,7,11,13,16,20,23,26,31,34,35,37,42,49,53,54	145416	23	16176	144224	117001	28	43	4.52	39.39	88.17	335.12	6	221328	20	0	1	1
4051	2,4,7,11,13,16,20,23,26,31,34,36,39,41,40,42,46,48,51	168212	26	92616	157173	89984	30	51	4.13	38.48	134.44	344.82	7	342735	20	0	1	1
4052	2,4,7,11,13,16,20,23,26,31,34,36,39,41,40,42,46,48,52,53,54	165338	26	81036	154299	97218	28	50	4.26	38.88	134.44	336.13	6	311736	20	0	1	1
4053	2,4,7,11,13,16,20,23,26,31,34,36,39,41,40,42,47,50,54	157547	27	53468	146508	109067	30	47	4.26	41.20	140.17	301.05	5	290270	20	0	1	1
4054	2,4,7,11,13,16,20,23,26,31,34,36,39,41,40,42,49,53,54	157163	26	52836	146124	108683	28	46	4.62	39.29	137.01	306.03	6	287991	20	0	1	1
4055	2,4,7,11,13,16,20,23,26,31,34,36,39,41,43,47,46,48,51	168229	27	92672	157765	90575	30	51	4.13	38.48	135.25	344.97	7	342991	20	0	1	1
4056	2,4,7,11,13,16,20,23,26,31,34,36,39,41,43,47,46,48,52,53,54	165354	27	81092	154890	97809	28	50	4.26	38.88	135.25	336.27	6	311992	20	0	1	1
4057	2,4,7,11,13,16,20,23,26,31,34,36,39,41,43,47,49,53,54	157179	28	52893	146715	109274	28	46	4.62	39.29	137.83	306.18	6	288247	20	0	1	1
4058	2,4,7,11,13,16,20,23,26,31,34,36,39,41,43,50,54	156300	26	52261	145836	108395	28	47	4.26	41.20	138.91	299.58	5	285473	20	0	1	1
4059	2,4,7,11,13,16,20,23,26,31,34,36,39,44,55	148076	21	63628	144408	106968	27	42	4.13	40.36	138.30	295.43	5	281448	20	0	1	1
4060	2,4,7,11,13,16,20,23,26,31,34,36,39,45,55	163059	25	90948	151982	100351	32	47	4.54	44.71	158.35	314.69	5	337450	20	0	1	1
4061	2,4,7,11,13,16,20,23,26,31,34,38,40,42,46,48,51	156814	23	55918	155046	107960	31	48	4.29	39.64	85.89	372.83	7	276575	20	0	1	6
4062	2,4,7,11,13,16,20,23,26,31,34,38,40,42,46,48,52,53,54	153939	23	44338	152172	115194	29	47	4.41	40.04	85.89	364.14	6	245576	20	0	1	6
4063	2,4,7,11,13,16,20,23,26,31,34,38,40,42,47,50,54	146148	24	16770	144380	127043	31	44	4.41	42.36	91.63	329.06	5	224110	20	0	1	6
4064	2,4,7,11,13,16,20,23,26,31,34,38,40,42,49,53,54	145764	23	16139	143996	126659	29	43	4.78	40.45	88.46	334.04	6	221831	20	0	1	6
4065	2,4,7,11,13,16,20,23,26,31,34,38,41,44,55	150271	20	40524	142281	124944	28	43	4.29	41.52	89.75	341.98	5	255366	20	0	1	6
4066	2,4,7,11,13,16,20,23,26,31,34,38,41,45,55	165255	24	67844	149855	118327	33	48	4.69	45.87	109.80	361.24	5	311368	20	0	1	6
4067	2,4,7,11,13,16,20,23,26,31,34,38,43,47,46,48,51	156830	22	55975	155637	108551	31	48	4.29	39.64	86.71	372.98	7	276831	20	0	1	6
4068	2,4,7,11,13,16,20,23,26,31,34,38,43,47,46,48,52,53,54	153955	22	44395	152763	115785	29	47	4.41	40.04	86.71	364.29	6	245832	20	0	1	6
4069	2,4,7,11,13,16,20,23,26,31,34,38,43,47,49,53,54	145780	23	16195	144588	127250	29	43	4.78	40.45	89.28	334.19	6	222087	20	0	1	6
4070	2,4,7,11,13,16,20,23,26,31,34,38,43,50,54	144901	21	15563	143708	126371	29	44	4.41	42.36	90.36	327.59	5	219313	20	0	1	6
4071	2,4,7,11,13,16,20,23,26,33,37,40,41,44,55	150497	18	40686	142346	110469	29	44	4.03	39.47	89.88	342.64	5	258037	20	0	1	1
4072	2,4,7,11,13,16,20,23,26,33,37,40,41,45,55	165481	22	68006	149920	103852	34	49	4.44	43.82	109.94	361.90	5	314040	20	0	1	1
4073	2,4,7,11,13,16,20,23,26,33,37,40,43,47,46,48,51	157056	22	56137	155702	94076	32	49	4.03	37.59	86.84	373.49	7	279503	20	0	1	1
4074	2,4,7,11,13,16,20,23,26,33,37,40,43,47,46,48,52,53,54	154182	22	44556	152828	101310	30	48	4.15	37.99	86.84	364.79	6	248504	20	0	1	1
4075	2,4,7,11,13,16,20,23,26,33,37,40,43,47,49,53,54	146007	23	16357	144652	112775	30	44	4.52	38.40	89.41	334.70	6	224758	20	0	1	1
4076	2,4,7,11,13,16,20,23,26,33,37,40,43,50,54	145128	21	15725	143773	111896	30	45	4.15	40.31	90.49	328.10	5	221984	20	0	1	1
4077	2,4,7,11,13,16,20,23,26,33,37,42,46,48,51	155890	19	54930	155111	93485	30	49	4.03	37.59	86.03	372.49	7	274786	20	0	1	1
4078	2,4,7,11,13,16,20,23,26,33,37,42,46,48,52,53,54	153016	19	43350	152236	100719	28	48	4.15	37.99	86.03	363.79	6	243787	20	0	1	1
4079	2,4,7,11,13,16,20,23,26,33,37,42,47,50,54	145224	20	15782	144445	112568	30	45	4.15	40.31	91.76	328.71	5	222321	20	0	1	1
4080	2,4,7,11,13,16,20,23,26,33,37,42,49,53,54	144840	19	15150	144061	112184	28	44	4.52	38.40	88.60	333.70	6	220042	20	0	1	1

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
4081	2,4,7,11,13,16,20,23,27,28,31,30,32,46,47,50,54	167452	27	69431	142575	114475	34	54	3.74	44.57	113.90	358.98	5	355135	31	0	0	5
4082	2,4,7,11,13,16,20,23,27,28,31,30,32,46,49,53,54	167068	26	68799	142191	114091	32	53	4.10	42.66	110.74	363.37	6	352856	31	0	0	5
4083	2,4,7,11,13,16,20,23,27,28,31,30,32,48,51	162661	24	93122	137784	87788	34	56	3.61	41.85	108.17	349.53	5	385339	31	0	0	5
4084	2,4,7,11,13,16,20,23,27,28,31,30,32,48,52,53,54	159786	24	81542	134909	95022	32	55	3.74	42.25	108.17	340.84	4	354340	31	0	0	5
4085	2,4,7,11,13,16,20,23,27,28,31,33,37,40,41,44,55	150808	20	39367	142546	113235	29	44	4.03	38.31	99.03	335.60	5	255875	20	0	0	1
4086	2,4,7,11,13,16,20,23,27,28,31,33,37,40,41,45,55	165792	24	66686	150120	106619	34	49	4.44	42.66	119.08	354.86	5	311877	20	0	0	1
4087	2,4,7,11,13,16,20,23,27,28,31,33,37,40,43,47,46,48,51	157367	24	54817	155902	96842	32	49	4.03	36.43	95.98	366.45	7	277340	20	0	0	1
4088	2,4,7,11,13,16,20,23,27,28,31,33,37,40,43,47,46,48,52,53,54	154493	24	43237	153028	104076	30	48	4.15	36.83	95.98	357.76	6	246341	20	0	0	1
4089	2,4,7,11,13,16,20,23,27,28,31,33,37,40,43,47,49,53,54	146318	25	15037	144853	115541	30	44	4.52	37.24	98.56	327.66	6	222596	20	0	0	1
4090	2,4,7,11,13,16,20,23,27,28,31,33,37,40,43,50,54	145439	23	14406	143973	114662	30	45	4.15	39.15	99.64	321.06	5	219822	20	0	0	1
4091	2,4,7,11,13,16,20,23,27,28,31,33,37,42,46,48,51	156201	21	53610	155311	96251	30	49	4.03	36.43	95.17	365.45	7	272624	20	0	0	1
4092	2,4,7,11,13,16,20,23,27,28,31,33,37,42,46,48,52,53,54	153327	21	42030	152437	103485	28	48	4.15	36.83	95.17	356.76	6	241625	20	0	0	1
4093	2,4,7,11,13,16,20,23,27,28,31,33,37,42,47,50,54	145535	22	14462	144645	115334	30	45	4.15	39.15	100.90	321.68	5	220158	20	0	0	1
4094	2,4,7,11,13,16,20,23,27,28,31,33,37,42,49,53,54	145151	21	13831	144261	114950	28	44	4.52	37.24	97.74	326.66	6	217879	20	0	0	1
4095	2,4,7,11,13,16,20,23,27,28,34,35,37,40,41,44,55	150558	20	39566	142709	118052	29	43	4.03	39.30	97.98	334.91	5	253028	20	0	0	1
4096	2,4,7,11,13,16,20,23,27,28,34,35,37,40,41,45,55	165542	24	66886	150283	111435	34	48	4.44	43.65	118.04	354.17	5	309030	20	0	0	1
4097	2,4,7,11,13,16,20,23,27,28,34,35,37,40,43,47,46,48,51	157117	24	55017	156065	101659	32	48	4.03	37.42	94.94	365.76	7	274493	20	0	0	1
4098	2,4,7,11,13,16,20,23,27,28,34,35,37,40,43,47,46,48,52,53,54	154242	24	43437	153191	108893	30	47	4.15	37.82	94.94	357.07	6	243494	20	0	0	1
4099	2,4,7,11,13,16,20,23,27,28,34,35,37,40,43,47,49,53,54	146067	25	15237	145015	120358	30	43	4.52	38.23	97.51	326.97	6	219749	20	0	0	1
4100	2,4,7,11,13,16,20,23,27,28,34,35,37,40,43,50,54	145188	23	14605	144136	119479	30	44	4.15	40.14	98.59	320.37	5	216975	20	0	0	1
4101	2,4,7,11,13,16,20,23,27,28,34,35,37,42,46,48,51	155950	21	53810	155474	101068	30	48	4.03	37.42	94.13	364.76	7	269777	20	0	0	1
4102	2,4,7,11,13,16,20,23,27,28,34,35,37,42,46,48,52,53,54	153076	21	42230	152599	108302	28	47	4.15	37.82	94.13	356.07	6	238778	20	0	0	1
4103	2,4,7,11,13,16,20,23,27,28,34,35,37,42,47,50,54	145285	22	14662	144808	120151	30	44	4.15	40.14	99.86	320.99	5	217311	20	0	0	1
4104	2,4,7,11,13,16,20,23,27,28,34,35,37,42,49,53,54	144901	21	14030	144424	119767	28	43	4.52	38.23	96.70	325.97	6	215033	20	0	0	1
4105	2,4,7,11,13,16,20,23,27,28,34,36,39,41,40,42,46,48,51	167697	24	90470	157373	92750	30	51	4.13	37.32	142.97	335.67	7	336440	20	0	0	1
4106	2,4,7,11,13,16,20,23,27,28,34,36,39,41,40,42,46,48,52,53,54	164822	24	78890	154499	99984	28	50	4.26	37.72	142.97	326.98	6	305441	20	0	0	1
4107	2,4,7,11,13,16,20,23,27,28,34,36,39,41,40,42,47,50,54	157031	25	51322	146708	111833	30	47	4.26	40.04	148.70	291.89	5	283974	20	0	0	1
4108	2,4,7,11,13,16,20,23,27,28,34,36,39,41,40,42,49,53,54	156647	24	50690	146324	111449	28	46	4.62	38.13	145.54	296.88	6	281695	20	0	0	1
4109	2,4,7,11,13,16,20,23,27,28,34,36,39,41,43,47,46,48,51	167713	25	90526	157965	93341	30	51	4.13	37.32	143.78	335.81	7	336696	20	0	0	1
4110	2,4,7,11,13,16,20,23,27,28,34,36,39,41,43,47,46,48,52,53,54	164839	25	78946	155090	100575	28	50	4.26	37.72	143.78	327.12	6	305697	20	0	0	1
4111	2,4,7,11,13,16,20,23,27,28,34,36,39,41,43,47,49,53,54	156663	26	50747	146915	112040	28	46	4.62	38.13	146.35	297.02	6	281951	20	0	0	1
4112	2,4,7,11,13,16,20,23,27,28,34,36,39,41,43,50,54	155784	24	50115	146036	111161	28	47	4.26	40.04	147.43	290.42	5	279177	20	0	0	1
4113	2,4,7,11,13,16,20,23,27,28,34,36,39,44,55	147560	19	61482	144609	109734	27	42	4.13	39.20	146.82	286.28	5	275152	20	0	0	1
4114	2,4,7,11,13,16,20,23,27,28,34,36,39,45,55	162544	23	88801	152182	103118	32	47	4.54	43.55	166.88	305.53	5	331154	20	0	0	1
4115	2,4,7,11,13,16,20,23,27,28,34,38,40,42,46,48,51	156298	21	53772	155246	110726	31	48	4.29	38.48	94.42	363.68	7	270280	20	0	0	6
4116	2,4,7,11,13,16,20,23,27,28,34,38,40,42,46,48,52,53,54	153424	21	42192	152372	117960	29	47	4.41	38.88	94.42	354.99	6	239281	20	0	0	6
4117	2,4,7,11,13,16,20,23,27,28,34,38,40,42,47,50,54	145632	22	14624	144580	129809	31	44	4.41	41.20	100.15	319.91	5	217814	20	0	0	6
4118	2,4,7,11,13,16,20,23,27,28,34,38,40,42,49,53,54	145248	21	13992	144196	129425	29	43	4.78	39.29	96.99	324.89	6	215536	20	0	0	6
4119	2,4,7,11,13,16,20,23,27,28,34,38,41,44,55	149755	18	38378	142481	127710	28	43	4.29	40.36	98.28	332.82	5	249071	20	0	0	6
4120	2,4,7,11,13,16,20,23,27,28,34,38,41,45,55	164739	22	65698	150055	121094	33	48	4.69	44.71	118.33	352.08	5	305073	20	0	0	6
4121	2,4,7,11,13,16,20,23,27,28,34,38,43,47,46,48,51	156314	20	53829	155837	111317	31	48	4.29	38.48	95.23	363.82	7	270536	20	0	0	6
4122	2,4,7,11,13,16,20,23,27,28,34,38,43,47,46,48,52,53,54	153440	20	42248	152963	118551	29	47	4.41	38.88	95.23	355.13	6	239537	20	0	0	6
4123	2,4,7,11,13,16,20,23,27,28,34,38,43,47,49,53,54	145265	21	14049	144788	130017	29	43	4.78	39.29	97.80	325.03	6	215791	20	0	0	6
4124	2,4,7,11,13,16,20,23,27,28,34,38,43,50,54	144385	19	13417	143909	129137	29	44	4.41	41.20	98.88	318.44	5	213017	20	0	0	6
4125	2,4,7,11,17,18,20,23,26,30,32,46,47,50,54	167205	27	70815	142074	107798	34	55	3.74	45.73	104.76	365.31	5	358093	21.5	0	1	5
4126	2,4,7,11,17,18,20,23,26,30,32,46,49,53,54	166821	26	70184	141690	107414	32	54	4.10	43.82	101.60	369.71	6	355814	21.5	0	1	5
4127	2,4,7,11,17,18,20,23,26,30,32,48,51	162413	24	94506	137282	81111	34	57	3.61	43.01	99.02	355.86	5	388297	21.5	0	1	5
4128	2,4,7,11,17,18,20,23,26,30,32,48,52,53,54	159539	24	82926	134408	88345	32	56	3.74	43.41	99.02	347.17	4	357298	21.5	0	1	5
4129	2,4,7,11,17,18,20,23,26,31,34,35,37,40,41,44,55	151137	22	41777	142207	111374	29	44	4.03	40.46	89.46	343.42	5	260119	10.5	0	1	1
4130	2,4,7,11,17,18,20,23,26,31,34,35,37,40,41,45,55	166121	26	69097	149781	104758	34	49	4.44	44.81	109.51	362.68	5	316121	10.5	0	1	1
4131	2,4,7,11,17,18,20,23,26,31,34,35,37,40,43,47,46,48,51	157696	26	57228	155563	94981	32	49	4.03	38.58	86.41	374.26	7	281584	10.5	0	1	1

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
4132	2,4,7,11,17,18,20,23,26,31,34,35,37,40,43,47,46,48,52,53,54	154822	26	45647	152689	102215	30	48	4.15	38.98	86.41	365.57	6	250585	10.5	0	1	1
4133	2,4,7,11,17,18,20,23,26,31,34,35,37,40,43,47,49,53,54	146646	27	17448	144514	113681	30	44	4.52	39.39	88.99	335.47	6	226840	10.5	0	1	1
4134	2,4,7,11,17,18,20,23,26,31,34,35,37,40,43,50,54	145767	25	16816	143635	112801	30	45	4.15	41.30	90.07	328.88	5	224065	10.5	0	1	1
4135	2,4,7,11,17,18,20,23,26,31,34,35,37,42,46,48,51	156530	23	56021	154972	94390	30	49	4.03	38.58	85.60	373.26	7	276867	10.5	0	1	1
4136	2,4,7,11,17,18,20,23,26,31,34,35,37,42,46,48,52,53,54	153655	23	44441	152098	101624	28	48	4.15	38.98	85.60	364.57	6	245868	10.5	0	1	1
4137	2,4,7,11,17,18,20,23,26,31,34,35,37,42,47,50,54	145864	24	16873	144306	113473	30	45	4.15	41.30	91.33	329.49	5	224402	10.5	0	1	1
4138	2,4,7,11,17,18,20,23,26,31,34,35,37,42,49,53,54	145480	23	16241	143923	113089	28	44	4.52	39.39	88.17	334.47	6	222123	10.5	0	1	1
4139	2,4,7,11,17,18,20,23,26,31,34,36,39,41,40,42,46,48,51	168276	26	92681	156872	86072	30	52	4.13	38.48	134.44	344.17	7	343530	10.5	0	1	1
4140	2,4,7,11,17,18,20,23,26,31,34,36,39,41,40,42,46,48,52,53,54	165402	26	81101	153998	93306	28	51	4.26	38.88	134.44	335.48	6	312531	10.5	0	1	1
4141	2,4,7,11,17,18,20,23,26,31,34,36,39,41,40,42,47,50,54	157610	27	53533	146206	105156	30	48	4.26	41.20	140.17	300.40	5	291065	10.5	0	1	1
4142	2,4,7,11,17,18,20,23,26,31,34,36,39,41,40,42,49,53,54	157226	26	52901	145822	104772	28	47	4.62	39.29	137.01	305.38	6	288786	10.5	0	1	1
4143	2,4,7,11,17,18,20,23,26,31,34,36,39,41,43,47,46,48,51	168292	27	92737	157463	86664	30	52	4.13	38.48	135.25	344.31	7	343786	10.5	0	1	1
4144	2,4,7,11,17,18,20,23,26,31,34,36,39,41,43,47,46,48,52,53,54	165418	27	81157	154589	93898	28	51	4.26	38.88	135.25	335.62	6	312787	10.5	0	1	1
4145	2,4,7,11,17,18,20,23,26,31,34,36,39,41,43,47,49,53,54	157243	28	52958	146414	105363	28	47	4.62	39.29	137.83	305.52	6	289042	10.5	0	1	1
4146	2,4,7,11,17,18,20,23,26,31,34,36,39,41,43,50,54	156363	26	52326	145534	104484	28	48	4.26	41.20	138.91	298.93	5	286268	10.5	0	1	1
4147	2,4,7,11,17,18,20,23,26,31,34,36,39,44,55	148139	21	63693	144107	103056	27	43	4.13	40.36	138.30	294.78	5	282243	10.5	0	1	1
4148	2,4,7,11,17,18,20,23,26,31,34,36,39,45,55	163123	25	91012	151681	96440	32	48	4.54	44.71	158.35	314.04	5	338245	10.5	0	1	1
4149	2,4,7,11,17,18,20,23,26,31,34,38,40,42,46,48,51	156877	23	55983	154745	104048	31	49	4.29	39.64	85.89	372.18	7	277370	10.5	0	1	6
4150	2,4,7,11,17,18,20,23,26,31,34,38,40,42,46,48,52,53,54	154003	23	44403	151870	111283	29	48	4.41	40.04	85.89	363.49	6	246371	10.5	0	1	6
4151	2,4,7,11,17,18,20,23,26,31,34,38,40,42,47,50,54	146212	24	16835	144079	123132	31	45	4.41	42.36	91.63	328.41	5	224905	10.5	0	1	6
4152	2,4,7,11,17,18,20,23,26,31,34,38,40,42,49,53,54	145828	23	16203	143695	122748	29	44	4.78	40.45	88.46	333.39	6	222626	10.5	0	1	6
4153	2,4,7,11,17,18,20,23,26,31,34,38,41,44,55	150334	20	40589	141980	121033	28	44	4.29	41.52	89.75	341.33	5	256161	10.5	0	1	6
4154	2,4,7,11,17,18,20,23,26,31,34,38,41,45,55	165318	24	67909	149554	114416	33	49	4.69	45.87	109.80	360.59	5	312163	10.5	0	1	6
4155	2,4,7,11,17,18,20,23,26,31,34,38,43,47,46,48,51	156893	22	56040	155336	104640	31	49	4.29	39.64	86.71	372.33	7	277626	10.5	0	1	6
4156	2,4,7,11,17,18,20,23,26,31,34,38,43,47,46,48,52,53,54	154019	22	44459	152462	111874	29	48	4.41	40.04	86.71	363.64	6	246627	10.5	0	1	6
4157	2,4,7,11,17,18,20,23,26,31,34,38,43,47,49,53,54	145844	23	16260	144286	123339	29	44	4.78	40.45	89.28	333.54	6	222882	10.5	0	1	6
4158	2,4,7,11,17,18,20,23,26,31,34,38,43,50,54	144965	21	15628	143407	122460	29	45	4.41	42.36	90.36	326.94	5	220108	10.5	0	1	6
4159	2,4,7,11,17,18,20,23,26,33,37,40,41,44,55	150561	18	40751	142045	106557	29	45	4.03	39.47	89.88	341.99	5	258833	10.5	0	1	1
4160	2,4,7,11,17,18,20,23,26,33,37,40,41,45,55	165545	22	68070	149618	99941	34	50	4.44	43.82	109.94	361.25	5	314835	10.5	0	1	1
4161	2,4,7,11,17,18,20,23,26,33,37,40,43,47,46,48,51	157120	22	56201	155401	90165	32	50	4.03	37.59	86.84	372.83	7	280298	10.5	0	1	1
4162	2,4,7,11,17,18,20,23,26,33,37,40,43,47,46,48,52,53,54	154246	22	44621	152526	97399	30	49	4.15	37.99	86.84	364.14	6	249299	10.5	0	1	1
4163	2,4,7,11,17,18,20,23,26,33,37,40,43,47,49,53,54	146070	23	16422	144351	108864	30	45	4.52	38.40	89.41	334.04	6	225553	10.5	0	1	1
4164	2,4,7,11,17,18,20,23,26,33,37,40,43,50,54	145191	21	15790	143472	107985	30	46	4.15	40.31	90.49	327.45	5	222779	10.5	0	1	1
4165	2,4,7,11,17,18,20,23,26,33,37,42,46,48,51	155954	19	54995	154809	89573	30	50	4.03	37.59	86.03	371.83	7	275581	10.5	0	1	1
4166	2,4,7,11,17,18,20,23,26,33,37,42,46,48,52,53,54	153079	19	43414	151935	96807	28	49	4.15	37.99	86.03	363.14	6	244582	10.5	0	1	1
4167	2,4,7,11,17,18,20,23,26,33,37,42,47,50,54	145288	20	15847	144144	108657	30	46	4.15	40.31	91.76	328.06	5	223116	10.5	0	1	1
4168	2,4,7,11,17,18,20,23,26,33,37,42,49,53,54	144904	19	15215	143760	108273	28	45	4.52	38.40	88.60	333.04	6	220837	10.5	0	1	1
4169	2,4,7,11,17,18,20,23,27,28,31,30,32,46,47,50,54	167516	27	69496	142274	110564	34	55	3.74	44.57	113.90	358.33	5	355930	21.5	0	0	5
4170	2,4,7,11,17,18,20,23,27,28,31,30,32,46,49,53,54	167132	26	68864	141890	110180	32	54	4.10	42.66	110.74	362.72	6	353651	21.5	0	0	5
4171	2,4,7,11,17,18,20,23,27,28,31,30,32,48,51	162724	24	93187	137482	83877	34	57	3.61	41.85	108.17	348.88	5	386134	21.5	0	0	5
4172	2,4,7,11,17,18,20,23,27,28,31,30,32,48,52,53,54	159850	24	81607	134608	91111	32	56	3.74	42.25	108.17	340.19	4	355135	21.5	0	0	5
4173	2,4,7,11,17,18,20,23,27,28,31,33,37,40,41,44,55	150872	20	39431	142245	109324	29	45	4.03	38.31	99.03	334.95	5	256670	10.5	0	0	1
4174	2,4,7,11,17,18,20,23,27,28,31,33,37,40,41,45,55	165856	24	66751	149819	102707	34	50	4.44	42.66	119.08	354.21	5	312672	10.5	0	0	1
4175	2,4,7,11,17,18,20,23,27,28,31,33,37,40,43,47,46,48,51	157431	24	54882	155601	92931	32	50	4.03	36.43	95.98	365.80	7	278135	10.5	0	0	1
4176	2,4,7,11,17,18,20,23,27,28,31,33,37,40,43,47,46,48,52,53,54	154557	24	43302	152727	100165	30	49	4.15	36.83	95.98	357.11	6	247136	10.5	0	0	1
4177	2,4,7,11,17,18,20,23,27,28,31,33,37,40,43,47,49,53,54	146381	25	15102	144551	111630	30	45	4.52	37.24	98.56	327.01	6	223391	10.5	0	0	1
4178	2,4,7,11,17,18,20,23,27,28,31,33,37,40,43,50,54	145502	23	14471	143672	110751	30	46	4.15	39.15	99.64	320.41	5	220617	10.5	0	0	1
4179	2,4,7,11,17,18,20,23,27,28,31,33,37,42,46,48,51	156265	21	53675	155010	92340	30	50	4.03	36.43	95.17	364.80	7	273419	10.5	0	0	1
4180	2,4,7,11,17,18,20,23,27,28,31,33,37,42,46,48,52,53,54	153390	21	42095	152135	99574	28	49	4.15	36.83	95.17	356.11	6	242420	10.5	0	0	1
4181	2,4,7,11,17,18,20,23,27,28,31,33,37,42,47,50,54	145599	22	14527	144344	111423	30	46	4.15	39.15	100.90	321.02	5	220953	10.5	0	0	1
4182	2,4,7,11,17,18,20,23,27,28,31,33,37,42,49,53,54	145215	21	13895	143960	111039	28	45	4.52	37.24	97.74	326.01	6	218674	10.5	0	0	1

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
4183	2,4,7,11,17,18,20,23,27,28,34,35,37,40,41,44,55	150621	20	39631	142408	114140	29	44	4.03	39.30	97.98	334.26	5	253823	10.5	0	0	1
4184	2,4,7,11,17,18,20,23,27,28,34,35,37,40,41,45,55	165605	24	66951	149981	107524	34	49	4.44	43.65	118.04	353.52	5	309825	10.5	0	0	1
4185	2,4,7,11,17,18,20,23,27,28,34,35,37,40,43,47,46,48,51	157180	24	55082	155764	97748	32	49	4.03	37.42	94.94	365.11	7	275288	10.5	0	0	1
4186	2,4,7,11,17,18,20,23,27,28,34,35,37,40,43,47,46,48,52,53,54	154306	24	43501	152889	104982	30	48	4.15	37.82	94.94	356.42	6	244289	10.5	0	0	1
4187	2,4,7,11,17,18,20,23,27,28,34,35,37,40,43,47,49,53,54	146131	25	15302	144714	116447	30	44	4.52	38.23	97.51	326.32	6	220544	10.5	0	0	1
4188	2,4,7,11,17,18,20,23,27,28,34,35,37,40,43,50,54	145252	23	14670	143835	115568	30	45	4.15	40.14	98.59	319.72	5	217770	10.5	0	0	1
4189	2,4,7,11,17,18,20,23,27,28,34,35,37,42,46,48,51	156014	21	53875	155172	97156	30	49	4.03	37.42	94.13	364.11	7	270572	10.5	0	0	1
4190	2,4,7,11,17,18,20,23,27,28,34,35,37,42,46,48,52,53,54	153140	21	42295	152298	104390	28	48	4.15	37.82	94.13	355.42	6	239573	10.5	0	0	1
4191	2,4,7,11,17,18,20,23,27,28,34,35,37,42,47,50,54	145348	22	14727	144507	116239	30	45	4.15	40.14	99.86	320.34	5	218106	10.5	0	0	1
4192	2,4,7,11,17,18,20,23,27,28,34,35,37,42,49,53,54	144964	21	14095	144123	115855	28	44	4.52	38.23	96.70	325.32	6	215828	10.5	0	0	1
4193	2,4,7,11,17,18,20,23,27,28,34,36,39,41,40,42,46,48,51	167760	24	90535	157072	88839	30	52	4.13	37.32	142.97	335.02	7	337235	10.5	0	0	1
4194	2,4,7,11,17,18,20,23,27,28,34,36,39,41,40,42,46,48,52,53,54	164886	24	78955	154198	96073	28	51	4.26	37.72	142.97	326.32	6	306236	10.5	0	0	1
4195	2,4,7,11,17,18,20,23,27,28,34,36,39,41,40,42,47,50,54	157095	25	51387	146407	107922	30	48	4.26	40.04	148.70	291.24	5	284769	10.5	0	0	1
4196	2,4,7,11,17,18,20,23,27,28,34,36,39,41,40,42,49,53,54	156711	24	50755	146023	107538	28	47	4.62	38.13	145.54	296.23	6	282490	10.5	0	0	1
4197	2,4,7,11,17,18,20,23,27,28,34,36,39,41,43,47,46,48,51	167777	25	90591	157664	89430	30	52	4.13	37.32	143.78	335.16	7	337491	10.5	0	0	1
4198	2,4,7,11,17,18,20,23,27,28,34,36,39,41,43,47,46,48,52,53,54	164902	25	79011	154789	96664	28	51	4.26	37.72	143.78	326.47	6	306492	10.5	0	0	1
4199	2,4,7,11,17,18,20,23,27,28,34,36,39,41,43,47,49,53,54	156727	26	50811	146614	108129	28	47	4.62	38.13	146.35	296.37	6	282746	10.5	0	0	1
4200	2,4,7,11,17,18,20,23,27,28,34,36,39,41,43,50,54	155848	24	50180	145735	107250	28	48	4.26	40.04	147.43	289.77	5	279972	10.5	0	0	1
4201	2,4,7,11,17,18,20,23,27,28,34,36,39,44,55	147624	19	61547	144307	105823	27	43	4.13	39.20	146.82	285.63	5	275947	10.5	0	0	1
4202	2,4,7,11,17,18,20,23,27,28,34,36,39,45,55	162608	23	88866	151881	99206	32	48	4.54	43.55	166.88	304.88	5	331950	10.5	0	0	1
4203	2,4,7,11,17,18,20,23,27,28,34,38,40,42,46,48,51	156362	21	53837	154945	106815	31	49	4.29	38.48	94.42	363.03	7	271075	10.5	0	0	6
4204	2,4,7,11,17,18,20,23,27,28,34,38,40,42,46,48,52,53,54	153487	21	42257	152071	114049	29	48	4.41	38.88	94.42	354.34	6	240076	10.5	0	0	6
4205	2,4,7,11,17,18,20,23,27,28,34,38,40,42,47,50,54	145696	22	14689	144279	125898	31	45	4.41	41.20	100.15	319.25	5	218609	10.5	0	0	6
4206	2,4,7,11,17,18,20,23,27,28,34,38,40,42,49,53,54	145312	21	14057	143895	125514	29	44	4.78	39.29	96.99	324.24	6	216331	10.5	0	0	6
4207	2,4,7,11,17,18,20,23,27,28,34,38,41,44,55	149819	18	38443	142180	123799	28	44	4.29	40.36	98.28	332.17	5	249866	10.5	0	0	6
4208	2,4,7,11,17,18,20,23,27,28,34,38,41,45,55	164803	22	65762	149754	117182	33	49	4.69	44.71	118.33	351.43	5	305868	10.5	0	0	6
4209	2,4,7,11,17,18,20,23,27,28,34,38,43,47,46,48,51	156378	20	53893	155536	107406	31	49	4.29	38.48	95.23	363.17	7	271331	10.5	0	0	6
4210	2,4,7,11,17,18,20,23,27,28,34,38,43,47,46,48,52,53,54	153503	20	42313	152662	114640	29	48	4.41	38.88	95.23	354.48	6	240332	10.5	0	0	6
4211	2,4,7,11,17,18,20,23,27,28,34,38,43,47,49,53,54	145328	21	14114	144487	126105	29	44	4.78	39.29	97.80	324.38	6	216586	10.5	0	0	6
4212	2,4,7,11,17,18,20,23,27,28,34,38,43,50,54	144449	19	13482	143607	125226	29	45	4.41	41.20	98.88	317.79	5	213812	10.5	0	0	6
4213	2,4,7,11,17,19,22,24,29,36,35,37,40,41,44,55	164399	23	83226	138565	99380	31	49	3.29	38.58	94.97	354.15	5	376615	42	0	0	1
4214	2,4,7,11,17,19,22,24,29,36,35,37,40,41,45,55	179383	27	110545	146139	92763	36	54	3.70	42.93	115.02	373.41	5	432617	42	0	0	1
4215	2,4,7,11,17,19,22,24,29,36,35,37,40,43,47,46,48,51	170958	27	98676	151921	82987	34	54	3.29	36.70	91.92	384.99	7	398080	42	0	0	1
4216	2,4,7,11,17,19,22,24,29,36,35,37,40,43,47,46,48,52,53,54	168084	27	87096	149047	90221	32	53	3.42	37.10	91.92	376.30	6	367081	42	0	0	1
4217	2,4,7,11,17,19,22,24,29,36,35,37,40,43,47,49,53,54	159909	28	58896	140872	101686	32	49	3.78	37.51	94.49	346.20	6	343336	42	0	0	1
4218	2,4,7,11,17,19,22,24,29,36,35,37,40,43,50,54	159030	26	58265	139992	100807	32	50	3.42	39.42	95.57	339.61	5	340562	42	0	0	1
4219	2,4,7,11,17,19,22,24,29,36,35,37,42,46,48,51	169792	24	97469	151330	82395	32	54	3.29	36.70	91.11	383.99	7	393364	42	0	0	1
4220	2,4,7,11,17,19,22,24,29,36,35,37,42,46,48,52,53,54	166918	24	85889	148456	89630	30	53	3.42	37.10	91.11	375.30	6	362365	42	0	0	1
4221	2,4,7,11,17,19,22,24,29,36,35,37,42,47,50,54	159126	25	58321	140664	101479	32	50	3.42	39.42	96.84	340.22	5	340898	42	0	0	1
4222	2,4,7,11,17,19,22,24,29,36,35,37,42,49,53,54	158742	24	57690	140280	101095	30	49	3.78	37.51	93.68	345.20	6	338619	42	0	0	1
4223	2,4,7,11,17,19,22,24,29,36,38,40,42,46,48,51	170140	25	97432	151103	92054	33	54	3.55	37.76	91.40	382.89	7	393867	42	0	0	6
4224	2,4,7,11,17,19,22,24,29,36,38,40,42,46,48,52,53,54	167265	25	85851	148228	99288	31	53	3.68	38.16	91.40	374.19	6	362868	42	0	0	6
4225	2,4,7,11,17,19,22,24,29,36,38,40,42,47,50,54	159474	26	58284	140437	111137	33	50	3.68	40.48	97.13	339.11	5	341401	42	0	0	6
4226	2,4,7,11,17,19,22,24,29,36,38,40,42,49,53,54	159090	25	57652	140053	110753	31	49	4.04	38.57	93.97	344.09	6	339122	42	0	0	6
4227	2,4,7,11,17,19,22,24,29,36,38,41,44,55	163597	22	82038	138338	109038	30	49	3.55	39.64	95.26	352.03	5	372657	42	0	0	6
4228	2,4,7,11,17,19,22,24,29,36,38,41,45,55	178580	26	109357	145912	102422	35	54	3.96	43.99	115.31	371.29	5	428660	42	0	0	6
4229	2,4,7,11,17,19,22,24,29,36,38,43,47,46,48,51	170156	24	97488	151694	92645	33	54	3.55	37.76	92.21	383.03	7	394123	42	0	0	6
4230	2,4,7,11,17,19,22,24,29,36,38,43,47,46,48,52,53,54	167281	24	85908	148819	99879	31	53	3.68	38.16	92.21	374.34	6	363124	42	0	0	6
4231	2,4,7,11,17,19,22,24,29,36,38,43,47,49,53,54	159106	25	57708	140644	111344	31	49	4.04	38.57	94.79	344.24	6	339378	42	0	0	6
4232	2,4,7,11,17,19,22,24,29,36,38,43,50,54	158227	23	57077	139765	110465	31	50	3.68	40.48	95.87	337.65	5	336604	42	0	0	6
4233	2,4,7,11,17,19,22,24,29,39,41,40,42,46,48,51	171910	24	124501	148551	74078	30	57	3.39	36.60	124.10	348.30	7	424471	42	0	0	1

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
4234	2,4,7,11,17,19,22,24,29,39,41,40,42,46,48,52,53,54	169036	24	112921	145677	81312	28	56	3.52	37.00	124.10	339.61	6	393472	42	0	0	1
4235	2,4,7,11,17,19,22,24,29,39,41,40,42,47,50,54	161245	25	85353	137885	93161	30	53	3.52	39.32	129.83	304.53	5	372006	42	0	0	1
4236	2,4,7,11,17,19,22,24,29,39,41,40,42,49,53,54	160861	24	84722	137501	92777	28	52	3.88	37.41	126.67	309.51	6	369727	42	0	0	1
4237	2,4,7,11,17,19,22,24,29,39,41,43,47,46,48,51	171926	25	124558	149142	74669	30	57	3.39	36.60	124.91	348.44	7	424727	42	0	0	1
4238	2,4,7,11,17,19,22,24,29,39,41,43,47,46,48,52,53,54	169052	25	112977	146268	81903	28	56	3.52	37.00	124.91	339.75	6	393728	42	0	0	1
4239	2,4,7,11,17,19,22,24,29,39,41,43,47,49,53,54	160877	26	84778	138093	93368	28	52	3.88	37.41	127.49	309.65	6	369983	42	0	0	1
4240	2,4,7,11,17,19,22,24,29,39,41,43,50,54	159998	24	84146	137213	92489	28	53	3.52	39.32	128.57	303.06	5	367209	42	0	0	1
4241	2,4,7,11,17,19,22,24,29,39,44,55	151774	19	95513	135786	91062	27	48	3.39	38.48	127.96	298.91	5	363184	42	0	0	1
4242	2,4,7,11,17,19,22,24,29,39,45,55	166757	23	122833	143360	84445	32	53	3.80	42.83	148.01	318.17	5	419186	42	0	0	1
4243	2,4,7,11,17,19,22,25,29,36,35,37,40,41,44,55	162507	22	81333	135345	103859	31	50	3.31	37.14	96.69	344.19	5	372887	42.5	0	0	1
4244	2,4,7,11,17,19,22,25,29,36,35,37,40,41,45,55	177491	26	108653	142919	97243	36	55	3.71	41.49	116.74	363.44	5	428889	42.5	0	0	1
4245	2,4,7,11,17,19,22,25,29,36,35,37,40,43,47,46,48,51	169066	26	96784	148701	87467	34	55	3.31	35.26	93.65	375.03	7	394352	42.5	0	0	1
4246	2,4,7,11,17,19,22,25,29,36,35,37,40,43,47,46,48,52,53,54	166192	26	85204	145827	94701	32	54	3.43	35.66	93.65	366.34	6	363353	42.5	0	0	1
4247	2,4,7,11,17,19,22,25,29,36,35,37,40,43,47,49,53,54	158016	27	57004	137651	106166	32	50	3.80	36.07	96.22	336.24	6	339608	42.5	0	0	1
4248	2,4,7,11,17,19,22,25,29,36,35,37,40,43,50,54	157137	25	56373	136772	105287	32	51	3.43	37.98	97.30	329.64	5	336834	42.5	0	0	1
4249	2,4,7,11,17,19,22,25,29,36,35,37,42,46,48,51	167900	23	95577	148110	86875	32	55	3.31	35.26	92.83	374.03	7	389636	42.5	0	0	1
4250	2,4,7,11,17,19,22,25,29,36,35,37,42,46,48,52,53,54	165025	23	83997	145235	94109	30	54	3.43	35.66	92.83	365.34	6	358637	42.5	0	0	1
4251	2,4,7,11,17,19,22,25,29,36,35,37,42,47,50,54	157234	24	56429	137444	105958	32	51	3.43	37.98	98.57	330.26	5	337170	42.5	0	0	1
4252	2,4,7,11,17,19,22,25,29,36,35,37,42,49,53,54	156850	23	55797	137060	105574	30	50	3.80	36.07	95.40	335.24	6	334892	42.5	0	0	1
4253	2,4,7,11,17,19,22,25,29,36,38,40,42,46,48,51	168247	24	95539	147882	96534	33	55	3.57	36.32	93.12	372.92	7	390139	42.5	0	0	6
4254	2,4,7,11,17,19,22,25,29,36,38,40,42,46,48,52,53,54	165373	24	83959	145008	103768	31	54	3.69	36.72	93.12	364.23	6	359140	42.5	0	0	6
4255	2,4,7,11,17,19,22,25,29,36,38,40,42,47,50,54	157582	25	56391	137216	115617	33	51	3.69	39.04	98.86	329.15	5	337673	42.5	0	0	6
4256	2,4,7,11,17,19,22,25,29,36,38,40,42,49,53,54	157198	24	55760	136832	115233	31	50	4.06	37.13	95.70	334.13	6	335395	42.5	0	0	6
4257	2,4,7,11,17,19,22,25,29,36,38,41,44,55	161704	21	80145	135117	113518	30	50	3.57	38.20	96.98	342.07	5	368930	42.5	0	0	6
4258	2,4,7,11,17,19,22,25,29,36,38,41,45,55	176688	25	107465	142691	106901	35	55	3.97	42.55	117.03	361.32	5	424932	42.5	0	0	6
4259	2,4,7,11,17,19,22,25,29,36,38,43,47,46,48,51	168263	23	95596	148473	97125	33	55	3.57	36.32	93.94	373.07	7	390395	42.5	0	0	6
4260	2,4,7,11,17,19,22,25,29,36,38,43,47,46,48,52,53,54	165389	23	84016	145599	104359	31	54	3.69	36.72	93.94	364.38	6	359396	42.5	0	0	6
4261	2,4,7,11,17,19,22,25,29,36,38,43,47,49,53,54	157214	24	55816	137424	115824	31	50	4.06	37.13	96.51	334.28	6	335650	42.5	0	0	6
4262	2,4,7,11,17,19,22,25,29,36,38,43,50,54	156335	22	55184	136545	114945	31	51	3.69	39.04	97.59	327.68	5	332876	42.5	0	0	6
4263	2,4,7,11,17,19,22,25,29,39,41,40,42,46,48,51	170018	23	122609	145331	78558	30	58	3.41	35.16	125.82	338.34	7	420743	42.5	0	0	1
4264	2,4,7,11,17,19,22,25,29,39,41,40,42,46,48,52,53,54	167144	23	111029	142456	85792	28	57	3.53	35.56	125.82	329.64	6	389744	42.5	0	0	1
4265	2,4,7,11,17,19,22,25,29,39,41,40,42,47,50,54	159352	24	83461	134665	97641	30	54	3.53	37.88	131.56	294.56	5	368278	42.5	0	0	1
4266	2,4,7,11,17,19,22,25,29,39,41,40,42,49,53,54	158968	23	82829	134281	97257	28	53	3.90	35.97	128.40	299.55	6	365999	42.5	0	0	1
4267	2,4,7,11,17,19,22,25,29,39,41,43,47,46,48,51	170034	24	122665	145922	79149	30	58	3.41	35.16	126.64	338.48	7	420999	42.5	0	0	1
4268	2,4,7,11,17,19,22,25,29,39,41,43,47,46,48,52,53,54	167160	24	111085	143048	86383	28	57	3.53	35.56	126.64	329.79	6	390000	42.5	0	0	1
4269	2,4,7,11,17,19,22,25,29,39,41,43,47,49,53,54	158985	25	82886	134872	97848	28	53	3.90	35.97	129.21	299.69	6	366255	42.5	0	0	1
4270	2,4,7,11,17,19,22,25,29,39,41,43,50,54	158105	23	82254	133993	96969	28	54	3.53	37.88	130.29	293.09	5	363481	42.5	0	0	1
4271	2,4,7,11,17,19,22,25,29,39,44,55	149881	18	93621	132566	95542	27	49	3.41	37.04	129.68	288.95	5	359456	42.5	0	0	1
4272	2,4,7,11,17,19,22,25,29,39,45,55	164865	22	120940	140140	88925	32	54	3.82	41.39	149.73	308.20	5	415458	42.5	0	0	1
4273	2,4,7,11,17,21,27,26,30,32,46,47,50,54	167250	27	75408	140234	108258	36	57	3.25	43.97	93.78	376.74	5	375355	23	0	1	5
4274	2,4,7,11,17,21,27,26,30,32,46,49,53,54	166866	26	74777	139850	107874	34	56	3.62	42.06	90.62	381.14	6	373076	23	0	1	5
4275	2,4,7,11,17,21,27,26,30,32,48,51	162459	24	99099	135442	81571	36	59	3.13	41.25	88.05	367.30	5	405559	23	0	1	5
4276	2,4,7,11,17,21,27,26,30,32,48,52,53,54	159584	24	87519	132568	88805	34	58	3.25	41.65	88.05	358.61	4	374560	23	0	1	5
4277	2,4,7,11,17,21,27,26,31,34,35,37,40,41,44,55	151182	22	46370	140367	111834	31	46	3.54	38.70	78.48	354.86	5	277381	12	0	1	1
4278	2,4,7,11,17,21,27,26,31,34,35,37,40,41,45,55	166166	26	73690	147941	105217	36	51	3.95	43.05	98.54	374.11	5	333383	12	0	1	1
4279	2,4,7,11,17,21,27,26,31,34,35,37,40,43,47,46,48,51	157741	26	61821	153724	95441	34	51	3.54	36.82	75.44	385.70	7	298846	12	0	1	1
4280	2,4,7,11,17,21,27,26,31,34,35,37,40,43,47,46,48,52,53,54	154867	26	50241	150849	102675	32	50	3.67	37.22	75.44	377.01	6	267847	12	0	1	1
4281	2,4,7,11,17,21,27,26,31,34,35,37,40,43,47,49,53,54	146692	27	22041	142674	114140	32	46	4.04	37.63	78.01	346.91	6	244102	12	0	1	1
4282	2,4,7,11,17,21,27,26,31,34,35,37,40,43,50,54	145813	25	21410	141795	113261	32	47	3.67	39.54	79.09	340.32	5	241328	12	0	1	1
4283	2,4,7,11,17,21,27,26,31,34,35,37,42,46,48,51	156575	23	60614	153132	94850	32	51	3.54	36.82	74.63	384.70	7	294130	12	0	1	1
4284	2,4,7,11,17,21,27,26,31,34,35,37,42,46,48,52,53,54	153701	23	49034	150258	102084	30	50	3.67	37.22	74.63	376.01	6	263131	12	0	1	1

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
4285	2,4,7,11,17,21,27,26,31,34,35,37,42,47,50,54	145909	24	21466	142467	113933	32	47	3.67	39.54	80.36	340.93	5	241664	12	0	1	1
4286	2,4,7,11,17,21,27,26,31,34,35,37,42,49,53,54	145525	23	20834	142083	113549	30	46	4.04	37.63	77.20	345.91	6	239385	12	0	1	1
4287	2,4,7,11,17,21,27,26,31,34,36,39,41,40,42,46,48,51	168322	26	97274	155032	86532	32	54	3.65	36.72	123.47	355.61	7	360792	12	0	1	1
4288	2,4,7,11,17,21,27,26,31,34,36,39,41,40,42,46,48,52,53,54	165447	26	85694	152158	93766	30	53	3.77	37.12	123.47	346.92	6	329793	12	0	1	1
4289	2,4,7,11,17,21,27,26,31,34,36,39,41,40,42,47,50,54	157656	27	58126	144366	105615	32	50	3.77	39.44	129.20	311.84	5	308327	12	0	1	1
4290	2,4,7,11,17,21,27,26,31,34,36,39,41,40,42,49,53,54	157272	26	57494	143982	105231	30	49	4.14	37.53	126.04	316.82	6	306048	12	0	1	1
4291	2,4,7,11,17,21,27,26,31,34,36,39,41,43,47,46,48,51	168338	27	97330	155623	87124	32	54	3.65	36.72	124.28	355.75	7	361048	12	0	1	1
4292	2,4,7,11,17,21,27,26,31,34,36,39,41,43,47,46,48,52,53,54	165463	27	85750	152749	94358	30	53	3.77	37.12	124.28	347.06	6	330049	12	0	1	1
4293	2,4,7,11,17,21,27,26,31,34,36,39,41,43,47,49,53,54	157288	28	57551	144574	105823	30	49	4.14	37.53	126.85	316.96	6	306304	12	0	1	1
4294	2,4,7,11,17,21,27,26,31,34,36,39,41,43,50,54	156409	26	56919	143694	104943	30	50	3.77	39.44	127.93	310.37	5	303530	12	0	1	1
4295	2,4,7,11,17,21,27,26,31,34,36,39,44,55	148185	21	68286	142267	103516	29	45	3.65	38.60	127.32	306.22	5	299505	12	0	1	1
4296	2,4,7,11,17,21,27,26,31,34,36,39,45,55	163169	25	95606	149841	96900	34	50	4.05	42.95	147.38	325.48	5	355507	12	0	1	1
4297	2,4,7,11,17,21,27,26,31,34,38,40,42,46,48,51	156923	23	60576	152905	104508	33	51	3.80	37.88	74.92	383.62	7	294633	12	0	1	6
4298	2,4,7,11,17,21,27,26,31,34,38,40,42,46,48,52,53,54	154048	23	48996	150030	111742	31	50	3.93	38.28	74.92	374.93	6	263634	12	0	1	6
4299	2,4,7,11,17,21,27,26,31,34,38,40,42,47,50,54	146257	24	21428	142239	123591	33	47	3.93	40.60	80.65	339.85	5	242167	12	0	1	6
4300	2,4,7,11,17,21,27,26,31,34,38,40,42,49,53,54	145873	23	20797	141855	123208	31	46	4.29	38.69	77.49	344.83	6	239888	12	0	1	6
4301	2,4,7,11,17,21,27,26,31,34,38,41,44,55	150380	20	45182	140140	121492	30	46	3.80	39.76	78.77	352.77	5	273423	12	0	1	6
4302	2,4,7,11,17,21,27,26,31,34,38,41,45,55	165364	24	72502	147714	114876	35	51	4.21	44.11	98.83	372.02	5	329426	12	0	1	6
4303	2,4,7,11,17,21,27,26,31,34,38,43,47,46,48,51	156939	22	60633	153496	105100	33	51	3.80	37.88	75.73	383.77	7	294888	12	0	1	6
4304	2,4,7,11,17,21,27,26,31,34,38,43,47,46,48,52,53,54	154065	22	49053	150622	112334	31	50	3.93	38.28	75.73	375.07	6	263889	12	0	1	6
4305	2,4,7,11,17,21,27,26,31,34,38,43,47,49,53,54	145889	23	20853	142446	123799	31	46	4.29	38.69	78.30	344.98	6	240144	12	0	1	6
4306	2,4,7,11,17,21,27,26,31,34,38,43,50,54	145010	21	20221	141567	122920	31	47	3.93	40.60	79.38	338.38	5	237370	12	0	1	6
4307	2,4,7,11,17,21,27,26,33,37,40,41,44,55	150606	18	45344	140205	107017	31	47	3.54	37.71	78.91	353.43	5	276095	12	0	1	1
4308	2,4,7,11,17,21,27,26,33,37,40,41,45,55	165590	22	72664	147779	100401	36	52	3.95	42.06	98.96	372.68	5	332097	12	0	1	1
4309	2,4,7,11,17,21,27,26,33,37,40,43,47,46,48,51	157165	22	60795	153561	90625	34	52	3.54	35.83	75.86	384.27	7	297560	12	0	1	1
4310	2,4,7,11,17,21,27,26,33,37,40,43,47,46,48,52,53,54	154291	22	49214	150686	97859	32	51	3.67	36.23	75.86	375.58	6	266561	12	0	1	1
4311	2,4,7,11,17,21,27,26,33,37,40,43,47,49,53,54	146116	23	21015	142511	109324	32	47	4.04	36.64	78.44	345.48	6	242815	12	0	1	1
4312	2,4,7,11,17,21,27,26,33,37,40,43,50,54	145237	21	20383	141632	108444	32	48	3.67	38.55	79.52	338.89	5	240041	12	0	1	1
4313	2,4,7,11,17,21,27,26,33,37,42,46,48,51	155999	19	59588	152969	90033	32	52	3.54	35.83	75.05	383.27	7	292843	12	0	1	1
4314	2,4,7,11,17,21,27,26,33,37,42,46,48,52,53,54	153125	19	48008	150095	97267	30	51	3.67	36.23	75.05	374.58	6	261844	12	0	1	1
4315	2,4,7,11,17,21,27,26,33,37,42,47,50,54	145333	20	20440	142304	109116	32	48	3.67	38.55	80.78	339.50	5	240378	12	0	1	1
4316	2,4,7,11,17,21,27,26,33,37,42,49,53,54	144949	19	19808	141920	108732	30	47	4.04	36.64	77.62	344.48	6	238099	12	0	1	1
4317	2,4,7,11,17,21,28,31,30,32,46,47,50,54	166608	25	73135	140434	111024	36	57	3.25	42.81	99.83	369.76	5	369378	23	0	0	5
4318	2,4,7,11,17,21,28,31,30,32,46,49,53,54	166224	24	72504	140050	110640	34	56	3.62	40.90	96.67	374.16	6	367100	23	0	0	5
4319	2,4,7,11,17,21,28,31,30,32,48,51	161816	22	96826	135642	84337	36	59	3.13	40.09	94.10	360.32	5	399582	23	0	0	5
4320	2,4,7,11,17,21,28,31,30,32,48,52,53,54	158942	22	85246	132768	91571	34	58	3.25	40.49	94.10	351.62	4	368583	23	0	0	5
4321	2,4,7,11,17,21,28,31,33,37,40,41,44,55	149964	18	43071	140405	109783	31	47	3.54	36.55	84.96	346.39	5	270118	12	0	0	1
4322	2,4,7,11,17,21,28,31,33,37,40,41,45,55	164948	22	70391	147979	103167	36	52	3.95	40.90	105.01	365.65	5	326120	12	0	0	1
4323	2,4,7,11,17,21,28,31,33,37,40,43,47,46,48,51	156523	22	58522	153761	93391	34	52	3.54	34.66	81.91	377.23	7	291583	12	0	0	1
4324	2,4,7,11,17,21,28,31,33,37,40,43,47,46,48,52,53,54	153649	22	46941	150887	100625	32	51	3.67	35.07	81.91	368.54	6	260584	12	0	0	1
4325	2,4,7,11,17,21,28,31,33,37,40,43,47,49,53,54	145473	23	18742	142711	112090	32	47	4.04	35.48	84.49	338.44	6	236839	12	0	0	1
4326	2,4,7,11,17,21,28,31,33,37,40,43,50,54	144594	21	18110	141832	111211	32	48	3.67	37.39	85.57	331.85	5	234065	12	0	0	1
4327	2,4,7,11,17,21,28,31,33,37,42,46,48,51	155356	19	57315	153170	92799	32	52	3.54	34.66	81.10	376.23	7	286867	12	0	0	1
4328	2,4,7,11,17,21,28,31,33,37,42,46,48,52,53,54	152482	19	45735	150295	100034	30	51	3.67	35.07	81.10	367.54	6	255868	12	0	0	1
4329	2,4,7,11,17,21,28,31,33,37,42,47,50,54	144691	20	18167	142504	111883	32	48	3.67	37.39	86.83	332.46	5	234401	12	0	0	1
4330	2,4,7,11,17,21,28,31,33,37,42,49,53,54	144307	19	17535	142120	111499	30	47	4.04	35.48	83.67	337.44	6	232123	12	0	0	1
4331	2,4,7,11,17,21,28,34,35,37,40,41,44,55	149713	18	43271	140568	114600	31	46	3.54	37.54	83.91	345.70	5	267271	12	0	0	1
4332	2,4,7,11,17,21,28,34,35,37,40,41,45,55	164697	22	70590	148141	107984	36	51	3.95	41.89	103.97	364.96	5	323274	12	0	0	1
4333	2,4,7,11,17,21,28,34,35,37,40,43,47,46,48,51	156272	22	58721	153924	98207	34	51	3.54	35.66	80.87	376.54	7	288736	12	0	0	1
4334	2,4,7,11,17,21,28,34,35,37,40,43,47,46,48,52,53,54	153398	22	47141	151049	105442	32	50	3.67	36.06	80.87	367.85	6	257737	12	0	0	1
4335	2,4,7,11,17,21,28,34,35,37,40,43,47,49,53,54	145223	23	18942	142874	116907	32	46	4.04	36.47	83.44	337.75	6	233992	12	0	0	1

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
4336	2,4,7,11,17,21,28,34,35,37,40,43,50,54	144344	21	18310	141995	116027	32	47	3.67	38.38	84.52	331.16	5	231218	12	0	0	1
4337	2,4,7,11,17,21,28,34,35,37,42,46,48,51	155106	19	57514	153332	97616	32	51	3.54	35.66	80.06	375.54	7	284020	12	0	0	1
4338	2,4,7,11,17,21,28,34,35,37,42,46,48,52,53,54	152232	19	45934	150458	104850	30	50	3.67	36.06	80.06	366.85	6	253021	12	0	0	1
4339	2,4,7,11,17,21,28,34,35,37,42,47,50,54	144440	20	18366	142667	116699	32	47	3.67	38.38	85.79	331.77	5	231554	12	0	0	1
4340	2,4,7,11,17,21,28,34,35,37,42,49,53,54	144056	19	17735	142283	116315	30	46	4.04	36.47	82.63	336.75	6	229276	12	0	0	1
4341	2,4,7,11,17,21,28,34,36,39,41,40,42,46,48,51	166852	22	94174	155232	89298	32	54	3.65	35.56	128.90	346.45	7	350683	12	0	0	1
4342	2,4,7,11,17,21,28,34,36,39,41,40,42,46,48,52,53,54	163978	22	82594	152358	96533	30	53	3.77	35.96	128.90	337.76	6	319684	12	0	0	1
4343	2,4,7,11,17,21,28,34,36,39,41,40,42,47,50,54	156187	23	55026	144567	108382	32	50	3.77	38.28	134.63	302.68	5	298217	12	0	0	1
4344	2,4,7,11,17,21,28,34,36,39,41,40,42,49,53,54	155803	22	54395	144183	107998	30	49	4.14	36.37	131.47	307.66	6	295939	12	0	0	1
4345	2,4,7,11,17,21,28,34,36,39,41,43,47,46,48,51	166869	23	94231	155824	89890	32	54	3.65	35.56	129.71	346.59	7	350939	12	0	0	1
4346	2,4,7,11,17,21,28,34,36,39,41,43,47,46,48,52,53,54	163994	23	82651	152949	97124	30	53	3.77	35.96	129.71	337.90	6	319940	12	0	0	1
4347	2,4,7,11,17,21,28,34,36,39,41,43,47,49,53,54	155819	24	54451	144774	108589	30	49	4.14	36.37	132.28	307.80	6	296194	12	0	0	1
4348	2,4,7,11,17,21,28,34,36,39,41,43,50,54	154940	22	53819	143895	107710	30	50	3.77	38.28	133.36	301.21	5	293420	12	0	0	1
4349	2,4,7,11,17,21,28,34,36,39,44,55	146716	17	65186	142467	106282	29	45	3.65	37.44	132.75	297.06	5	289395	12	0	0	1
4350	2,4,7,11,17,21,28,34,36,39,45,55	161699	21	92506	150041	99666	34	50	4.05	41.79	152.81	316.32	5	345398	12	0	0	1
4351	2,4,7,11,17,21,28,34,38,40,42,46,48,51	155454	19	57477	153105	107275	33	51	3.80	36.72	80.35	374.46	7	284523	12	0	0	6
4352	2,4,7,11,17,21,28,34,38,40,42,46,48,52,53,54	152579	19	45897	150231	114509	31	50	3.93	37.12	80.35	365.77	6	253524	12	0	0	6
4353	2,4,7,11,17,21,28,34,38,40,42,47,50,54	144788	20	18329	142439	126358	33	47	3.93	39.44	86.08	330.69	5	232057	12	0	0	6
4354	2,4,7,11,17,21,28,34,38,40,42,49,53,54	144404	19	17697	142055	125974	31	46	4.29	37.53	82.92	335.67	6	229779	12	0	0	6
4355	2,4,7,11,17,21,28,34,38,41,44,55	148911	16	42083	140340	124259	30	46	3.80	38.60	84.21	343.61	5	263314	12	0	0	6
4356	2,4,7,11,17,21,28,34,38,41,45,55	163894	20	69402	147914	117642	35	51	4.21	42.95	104.26	362.87	5	319316	12	0	0	6
4357	2,4,7,11,17,21,28,34,38,43,47,46,48,51	155470	18	57533	153696	107866	33	51	3.80	36.72	81.16	374.61	7	284779	12	0	0	6
4358	2,4,7,11,17,21,28,34,38,43,47,46,48,52,53,54	152595	18	45953	150822	115100	31	50	3.93	37.12	81.16	365.92	6	253780	12	0	0	6
4359	2,4,7,11,17,21,28,34,38,43,47,49,53,54	144420	19	17753	142647	126565	31	46	4.29	37.53	83.73	335.82	6	230035	12	0	0	6
4360	2,4,7,11,17,21,28,34,38,43,50,54	143541	17	17122	141767	125686	31	47	3.93	39.44	84.82	329.22	5	227261	12	0	0	6
4361	2,4,7,9,10,12,14,30,31,34,35,37,40,41,44,55	164427	18	80005	149740	121552	32	50	3.05	35.24	120.39	354.00	5	327364	25.5	0	0	1
4362	2,4,7,9,10,12,14,30,31,34,35,37,40,41,45,55	179411	22	107324	157313	114936	37	55	3.46	39.59	140.44	373.26	5	383366	25.5	0	0	1
4363	2,4,7,9,10,12,14,30,31,34,35,37,40,43,47,46,48,51	170986	22	95455	163096	105159	35	55	3.05	33.36	117.34	384.84	7	348829	25.5	0	0	1
4364	2,4,7,9,10,12,14,30,31,34,35,37,40,43,47,46,48,52,53,54	168112	22	83875	160221	112393	33	54	3.18	33.76	117.34	376.15	6	317830	25.5	0	0	1
4365	2,4,7,9,10,12,14,30,31,34,35,37,40,43,47,49,53,54	159936	23	55676	152046	123859	33	50	3.54	34.17	119.92	346.05	6	294085	25.5	0	0	1
4366	2,4,7,9,10,12,14,30,31,34,35,37,40,43,50,54	159057	21	55044	151167	122979	33	51	3.18	36.08	121.00	339.46	5	291311	25.5	0	0	1
4367	2,4,7,9,10,12,14,30,31,34,35,37,42,46,48,51	169820	19	94249	162504	104568	33	55	3.05	33.36	116.53	383.84	7	344112	25.5	0	0	1
4368	2,4,7,9,10,12,14,30,31,34,35,37,42,46,48,52,53,54	166945	19	82668	159630	111802	31	54	3.18	33.76	116.53	375.15	6	313113	25.5	0	0	1
4369	2,4,7,9,10,12,14,30,31,34,35,37,42,47,50,54	159154	20	55101	151839	123651	33	51	3.18	36.08	122.26	340.07	5	291647	25.5	0	0	1
4370	2,4,7,9,10,12,14,30,31,34,35,37,42,49,53,54	158770	19	54469	151455	123267	31	50	3.54	34.17	119.10	345.05	6	289368	25.5	0	0	1
4371	2,4,7,9,10,12,14,30,31,34,36,39,41,40,42,46,48,51	181566	22	130909	164404	96250	33	58	3.15	33.26	165.37	354.75	7	410775	25.5	0	0	1
4372	2,4,7,9,10,12,14,30,31,34,36,39,41,40,42,46,48,52,53,54	178692	22	119328	161530	103484	31	57	3.28	33.66	165.37	346.06	6	379776	25.5	0	0	1
4373	2,4,7,9,10,12,14,30,31,34,36,39,41,40,42,47,50,54	170900	23	91760	153739	115334	33	54	3.28	35.98	171.10	310.98	5	358310	25.5	0	0	1
4374	2,4,7,9,10,12,14,30,31,34,36,39,41,40,42,49,53,54	170516	22	91129	153355	114950	31	53	3.64	34.07	167.94	315.96	6	356031	25.5	0	0	1
4375	2,4,7,9,10,12,14,30,31,34,36,39,41,43,47,46,48,51	181582	23	130965	164996	96842	33	58	3.15	33.26	166.18	354.89	7	411031	25.5	0	0	1
4376	2,4,7,9,10,12,14,30,31,34,36,39,41,43,47,46,48,52,53,54	178708	23	119385	162121	104076	31	57	3.28	33.66	166.18	346.20	6	380032	25.5	0	0	1
4377	2,4,7,9,10,12,14,30,31,34,36,39,41,43,47,49,53,54	170533	24	91185	153946	115541	31	53	3.64	34.07	168.76	316.10	6	356287	25.5	0	0	1
4378	2,4,7,9,10,12,14,30,31,34,36,39,41,43,50,54	169653	22	90554	153067	114662	31	54	3.28	35.98	169.84	309.51	5	353513	25.5	0	0	1
4379	2,4,7,9,10,12,14,30,31,34,36,39,44,55	161429	17	101921	151639	113234	30	49	3.15	35.15	169.23	305.36	5	349488	25.5	0	0	1
4380	2,4,7,9,10,12,14,30,31,34,36,39,45,55	176413	21	129240	159213	106618	35	54	3.56	39.49	189.28	324.62	5	405490	25.5	0	0	1
4381	2,4,7,9,10,12,14,30,31,34,38,40,42,46,48,51	170167	19	94211	162277	114226	34	55	3.31	34.42	116.82	382.76	7	344615	25.5	0	0	6
4382	2,4,7,9,10,12,14,30,31,34,38,40,42,46,48,52,53,54	167293	19	82631	159403	121461	32	54	3.43	34.82	116.82	374.07	6	313616	25.5	0	0	6
4383	2,4,7,9,10,12,14,30,31,34,38,40,42,47,50,54	159502	20	55063	151611	133310	34	51	3.43	37.14	122.56	338.99	5	292150	25.5	0	0	6
4384	2,4,7,9,10,12,14,30,31,34,38,40,42,49,53,54	159118	19	54431	151227	132926	32	50	3.80	35.23	119.40	343.97	6	289871	25.5	0	0	6
4385	2,4,7,9,10,12,14,30,31,34,38,41,44,55	163624	16	78817	149512	131211	31	50	3.31	36.31	120.68	351.91	5	323406	25.5	0	0	6
4386	2,4,7,9,10,12,14,30,31,34,38,41,45,55	178608	20	106136	157086	124594	36	55	3.72	40.65	140.73	371.16	5	379408	25.5	0	0	6

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
4387	2,4,7,9,10,12,14,30,31,34,38,43,47,46,48,51	170183	18	94267	162868	114818	34	55	3.31	34.42	117.64	382.91	7	344871	25.5	0	0	6
4388	2,4,7,9,10,12,14,30,31,34,38,43,47,46,48,52,53,54	167309	18	82687	159994	122052	32	54	3.43	34.82	117.64	374.22	6	313872	25.5	0	0	6
4389	2,4,7,9,10,12,14,30,31,34,38,43,47,49,53,54	159134	19	54488	151819	133517	32	50	3.80	35.23	120.21	344.12	6	290127	25.5	0	0	6
4390	2,4,7,9,10,12,14,30,31,34,38,43,50,54	158255	17	53856	150939	132638	32	51	3.43	37.14	121.29	337.52	5	287353	25.5	0	0	6
4391	2,4,7,9,10,12,14,30,33,37,40,41,44,55	163851	16	78979	149577	116735	32	51	3.05	34.25	120.81	352.51	5	326078	25.5	0	0	1
4392	2,4,7,9,10,12,14,30,33,37,40,41,45,55	178835	20	106298	157151	110119	37	56	3.46	38.60	140.87	371.77	5	382080	25.5	0	0	1
4393	2,4,7,9,10,12,14,30,33,37,40,43,47,46,48,51	170410	20	94429	162933	100343	35	56	3.05	32.37	117.77	383.36	7	347543	25.5	0	0	1
4394	2,4,7,9,10,12,14,30,33,37,40,43,47,46,48,52,53,54	167536	20	82849	160059	107577	33	55	3.18	32.77	117.77	374.67	6	316544	25.5	0	0	1
4395	2,4,7,9,10,12,14,30,33,37,40,43,47,49,53,54	159360	21	54650	151883	119042	33	51	3.54	33.18	120.34	344.57	6	292798	25.5	0	0	1
4396	2,4,7,9,10,12,14,30,33,37,40,43,50,54	158481	19	54018	151004	118163	33	52	3.18	35.09	121.42	337.97	5	290024	25.5	0	0	1
4397	2,4,7,9,10,12,14,30,33,37,42,46,48,51	169244	17	93222	162342	99751	33	56	3.05	32.37	116.96	382.36	7	342826	25.5	0	0	1
4398	2,4,7,9,10,12,14,30,33,37,42,46,48,52,53,54	166369	17	81642	159467	106985	31	55	3.18	32.77	116.96	373.67	6	311827	25.5	0	0	1
4399	2,4,7,9,10,12,14,30,33,37,42,47,50,54	158578	18	54074	151676	118835	33	52	3.18	35.09	122.69	338.59	5	290361	25.5	0	0	1
4400	2,4,7,9,10,12,14,30,33,37,42,49,53,54	158194	17	53443	151292	118451	31	51	3.54	33.18	119.53	343.57	6	288082	25.5	0	0	1
4401	2,4,7,9,10,12,14,32,46,47,50,54	172839	21	101388	149606	117976	35	59	2.76	40.52	135.69	350.92	5	387302	33.5	0	0	5
4402	2,4,7,9,10,12,14,32,46,49,53,54	172455	20	100756	149222	117592	33	58	3.12	38.61	132.53	355.32	6	385023	33.5	0	0	5
4403	2,4,7,9,10,12,14,32,48,51	168048	18	125079	144814	91289	35	61	2.63	37.80	129.95	341.47	5	417506	33.5	0	0	5
4404	2,4,7,9,10,12,14,32,48,52,53,54	165174	18	113499	141940	98523	33	60	2.76	38.20	129.95	332.78	4	386507	33.5	0	0	5
4405	2,4,7,9,10,13,17,18,20,23,26,30,32,46,47,50,54	168026	31	68982	139821	107236	34	54	2.86	44.85	105.95	364.32	5	356857	31.5	0	1	5
4406	2,4,7,9,10,13,17,18,20,23,26,30,32,46,49,53,54	167642	30	68350	139437	106852	32	53	3.23	42.94	102.79	368.72	6	354578	31.5	0	1	5
4407	2,4,7,9,10,13,17,18,20,23,26,30,32,48,51	163235	28	92673	135029	80549	34	56	2.74	42.13	100.22	354.88	5	387061	31.5	0	1	5
4408	2,4,7,9,10,13,17,18,20,23,26,30,32,48,52,53,54	160360	28	81093	132155	87784	32	55	2.86	42.53	100.22	346.18	4	356062	31.5	0	1	5
4409	2,4,7,9,10,13,17,18,20,23,26,31,34,35,37,40,41,44,55	151958	26	39944	139955	110813	29	43	3.16	39.58	90.65	342.44	5	258883	20.5	0	1	1
4410	2,4,7,9,10,13,17,18,20,23,26,31,34,35,37,40,41,45,55	166942	30	67263	147528	104196	34	48	3.56	43.92	110.71	361.69	5	314885	20.5	0	1	1
4411	2,4,7,9,10,13,17,18,20,23,26,31,34,35,37,40,43,47,46,48,51	158518	30	55394	153311	94420	32	48	3.16	37.69	87.61	373.28	7	280348	20.5	0	1	1
4412	2,4,7,9,10,13,17,18,20,23,26,31,34,35,37,40,43,47,46,48,52,53,54	155643	30	43814	150436	101654	30	47	3.28	38.09	87.61	364.59	6	249349	20.5	0	1	1
4413	2,4,7,9,10,13,17,18,20,23,26,31,34,35,37,40,43,47,49,53,54	147468	31	15615	142261	113119	30	43	3.65	38.50	90.18	334.49	6	225604	20.5	0	1	1
4414	2,4,7,9,10,13,17,18,20,23,26,31,34,35,37,40,43,50,54	146589	29	14983	141382	112240	30	44	3.28	40.41	91.26	327.89	5	222830	20.5	0	1	1
4415	2,4,7,9,10,13,17,18,20,23,26,31,34,35,37,42,46,48,51	157351	27	54188	152719	93829	30	48	3.16	37.69	86.80	372.28	7	275632	20.5	0	1	1
4416	2,4,7,9,10,13,17,18,20,23,26,31,34,35,37,42,46,48,52,53,54	154477	27	42607	149845	101063	28	47	3.28	38.09	86.80	363.59	6	244632	20.5	0	1	1
4417	2,4,7,9,10,13,17,18,20,23,26,31,34,35,37,42,47,50,54	146685	28	15039	142054	112912	30	44	3.28	40.41	92.53	328.51	5	223166	20.5	0	1	1
4418	2,4,7,9,10,13,17,18,20,23,26,31,34,35,37,42,49,53,54	146301	27	14408	141670	112528	28	43	3.65	38.50	89.37	333.49	6	220887	20.5	0	1	1
4419	2,4,7,9,10,13,17,18,20,23,26,31,34,36,39,41,40,42,46,48,51	169098	30	90847	154619	85511	30	51	3.26	37.59	135.64	343.19	7	342294	20.5	0	1	1
4420	2,4,7,9,10,13,17,18,20,23,26,31,34,36,39,41,40,42,46,48,52,53,54	166223	30	79267	151745	92745	28	50	3.38	38.00	135.64	334.50	6	311295	20.5	0	1	1
4421	2,4,7,9,10,13,17,18,20,23,26,31,34,36,39,41,40,42,47,50,54	158432	31	51699	143954	104594	30	47	3.38	40.31	141.37	299.42	5	289829	20.5	0	1	1
4422	2,4,7,9,10,13,17,18,20,23,26,31,34,36,39,41,40,42,49,53,54	158048	30	51068	143570	104210	28	46	3.75	38.41	138.21	304.40	6	287550	20.5	0	1	1
4423	2,4,7,9,10,13,17,18,20,23,26,31,34,36,39,41,43,47,46,48,51	169114	31	90904	155211	86102	30	51	3.26	37.59	136.45	343.33	7	342550	20.5	0	1	1
4424	2,4,7,9,10,13,17,18,20,23,26,31,34,36,39,41,43,47,46,48,52,53,54	166239	31	79324	152336	93336	28	50	3.38	38.00	136.45	334.64	6	311551	20.5	0	1	1
4425	2,4,7,9,10,13,17,18,20,23,26,31,34,36,39,41,43,47,49,53,54	158064	32	51124	144161	104802	28	46	3.75	38.41	139.02	304.54	6	287806	20.5	0	1	1
4426	2,4,7,9,10,13,17,18,20,23,26,31,34,36,39,41,43,50,54	157185	30	50493	143282	103922	28	47	3.38	40.31	140.10	297.94	5	285032	20.5	0	1	1
4427	2,4,7,9,10,13,17,18,20,23,26,31,34,36,39,44,55	148961	25	61860	141854	102495	27	42	3.26	39.48	139.49	293.80	5	281007	20.5	0	1	1
4428	2,4,7,9,10,13,17,18,20,23,26,31,34,36,39,45,55	163945	29	89179	149428	95879	32	47	3.66	43.83	159.55	313.05	5	337009	20.5	0	1	1
4429	2,4,7,9,10,13,17,18,20,23,26,31,34,38,40,42,46,48,51	157699	27	54150	152492	103487	31	48	3.42	38.76	87.09	371.20	7	276135	20.5	0	1	6
4430	2,4,7,9,10,13,17,18,20,23,26,31,34,38,40,42,46,48,52,53,54	154824	27	42570	149618	110721	29	47	3.54	39.16	87.09	362.51	6	245135	20.5	0	1	6
4431	2,4,7,9,10,13,17,18,20,23,26,31,34,38,40,42,47,50,54	147033	28	15002	141826	122570	31	44	3.54	41.48	92.82	327.43	5	223669	20.5	0	1	6
4432	2,4,7,9,10,13,17,18,20,23,26,31,34,38,40,42,49,53,54	146649	27	14370	141442	122186	29	43	3.91	39.57	89.66	332.41	6	221390	20.5	0	1	6
4433	2,4,7,9,10,13,17,18,20,23,26,31,34,38,41,44,55	151156	24	38756	139727	120471	28	43	3.42	40.64	90.95	340.34	5	254925	20.5	0	1	6
4434	2,4,7,9,10,13,17,18,20,23,26,31,34,38,41,45,55	166140	28	66075	147301	113855	33	48	3.82	44.99	111.00	359.60	5	310928	20.5	0	1	6
4435	2,4,7,9,10,13,17,18,20,23,26,31,34,38,43,47,46,48,51	157715	26	54206	153083	104079	31	48	3.42	38.76	87.90	371.34	7	276390	20.5	0	1	6
4436	2,4,7,9,10,13,17,18,20,23,26,31,34,38,43,47,46,48,52,53,54	154841	26	42626	150209	111313	29	47	3.54	39.16	87.90	362.65	6	245391	20.5	0	1	6
4437	2,4,7,9,10,13,17,18,20,23,26,31,34,38,43,47,49,53,54	146665	27	14427	142034	122778	29	43	3.91	39.57	90.47	332.55	6	221646	20.5	0	1	6

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
4438	2,4,7,9,10,13,17,18,20,23,26,31,34,38,43,50,54	145786	25	13795	141154	121898	29	44	3.54	41.48	91.56	325.96	5	218872	20.5	0	1	6
4439	2,4,7,9,10,13,17,18,20,23,26,33,37,40,41,44,55	151382	22	38918	139792	105996	29	44	3.16	38.58	91.08	341.01	5	257597	20.5	0	1	1
4440	2,4,7,9,10,13,17,18,20,23,26,33,37,40,41,45,55	166366	26	66237	147366	99380	34	49	3.56	42.93	111.13	360.26	5	313599	20.5	0	1	1
4441	2,4,7,9,10,13,17,18,20,23,26,33,37,40,43,47,46,48,51	157942	26	54368	153148	89603	32	49	3.16	36.70	88.04	371.85	7	279062	20.5	0	1	1
4442	2,4,7,9,10,13,17,18,20,23,26,33,37,40,43,47,46,48,52,53,54	155067	26	42788	150274	96837	30	48	3.28	37.10	88.04	363.16	6	248063	20.5	0	1	1
4443	2,4,7,9,10,13,17,18,20,23,26,33,37,40,43,47,49,53,54	146892	27	14588	142098	108303	30	44	3.65	37.51	90.61	333.06	6	224317	20.5	0	1	1
4444	2,4,7,9,10,13,17,18,20,23,26,33,37,40,43,50,54	146013	25	13957	141219	107423	30	45	3.28	39.42	91.69	326.46	5	221543	20.5	0	1	1
4445	2,4,7,9,10,13,17,18,20,23,26,33,37,42,46,48,51	156775	23	53161	152557	89012	30	49	3.16	36.70	87.22	370.85	7	274345	20.5	0	1	1
4446	2,4,7,9,10,13,17,18,20,23,26,33,37,42,46,48,52,53,54	153901	23	41581	149682	96246	28	48	3.28	37.10	87.22	362.16	6	243346	20.5	0	1	1
4447	2,4,7,9,10,13,17,18,20,23,26,33,37,42,47,50,54	146109	24	14013	141891	108095	30	45	3.28	39.42	92.96	327.08	5	221880	20.5	0	1	1
4448	2,4,7,9,10,13,17,18,20,23,26,33,37,42,49,53,54	145725	23	13382	141507	107711	28	44	3.65	37.51	89.80	332.06	6	219601	20.5	0	1	1
4449	2,4,7,9,10,13,17,18,20,23,27,28,31,30,32,46,47,50,54	168337	31	67662	140021	110003	34	54	2.86	43.69	115.10	357.34	5	354694	31.5	0	0	5
4450	2,4,7,9,10,13,17,18,20,23,27,28,31,30,32,46,49,53,54	167953	30	67031	139637	109619	32	53	3.23	41.78	111.94	361.74	6	352416	31.5	0	0	5
4451	2,4,7,9,10,13,17,18,20,23,27,28,31,30,32,48,51	163546	28	91353	135230	83316	34	56	2.74	40.97	109.36	347.89	5	384898	31.5	0	0	5
4452	2,4,7,9,10,13,17,18,20,23,27,28,31,30,32,48,52,53,54	160671	28	79773	132355	90550	32	55	2.86	41.37	109.36	339.20	4	353899	31.5	0	0	5
4453	2,4,7,9,10,13,17,18,20,23,27,28,31,33,37,40,41,44,55	151693	24	37598	139992	108762	29	44	3.16	37.42	100.22	333.97	5	255434	20.5	0	0	1
4454	2,4,7,9,10,13,17,18,20,23,27,28,31,33,37,40,41,45,55	166677	28	64918	147566	102146	34	49	3.56	41.77	120.28	353.22	5	311436	20.5	0	0	1
4455	2,4,7,9,10,13,17,18,20,23,27,28,31,33,37,40,43,47,46,48,51	158253	28	53049	153348	92370	32	49	3.16	35.54	97.18	364.81	7	276899	20.5	0	0	1
4456	2,4,7,9,10,13,17,18,20,23,27,28,31,33,37,40,43,47,46,48,52,53,54	155378	28	41468	150474	99604	30	48	3.28	35.94	97.18	356.12	6	245900	20.5	0	0	1
4457	2,4,7,9,10,13,17,18,20,23,27,28,31,33,37,40,43,47,49,53,54	147203	29	13269	142299	111069	30	44	3.65	36.35	99.75	326.02	6	222155	20.5	0	0	1
4458	2,4,7,9,10,13,17,18,20,23,27,28,31,33,37,40,43,50,54	146324	27	12637	141419	110190	30	45	3.28	38.26	100.83	319.43	5	219381	20.5	0	0	1
4459	2,4,7,9,10,13,17,18,20,23,27,28,31,33,37,42,46,48,51	157086	25	51842	152757	91778	30	49	3.16	35.54	96.37	363.81	7	272183	20.5	0	0	1
4460	2,4,7,9,10,13,17,18,20,23,27,28,31,33,37,42,46,48,52,53,54	154212	25	40262	149883	99012	28	48	3.28	35.94	96.37	355.12	6	241184	20.5	0	0	1
4461	2,4,7,9,10,13,17,18,20,23,27,28,31,33,37,42,47,50,54	146420	26	12694	142091	110861	30	45	3.28	38.26	102.10	320.04	5	219717	20.5	0	0	1
4462	2,4,7,9,10,13,17,18,20,23,27,28,31,33,37,42,49,53,54	146036	25	12062	141707	110477	28	44	3.65	36.35	98.94	325.02	6	217439	20.5	0	0	1
4463	2,4,7,9,10,13,17,18,20,23,27,28,34,35,37,40,41,44,55	151443	24	37798	140155	113579	29	43	3.16	38.41	99.18	333.28	5	252587	20.5	0	0	1
4464	2,4,7,9,10,13,17,18,20,23,27,28,34,35,37,40,41,45,55	166427	28	65117	147729	106963	34	48	3.56	42.76	119.23	352.53	5	308590	20.5	0	0	1
4465	2,4,7,9,10,13,17,18,20,23,27,28,34,35,37,40,43,47,46,48,51	158002	28	53248	153511	97186	32	48	3.16	36.53	96.14	364.12	7	274052	20.5	0	0	1
4466	2,4,7,9,10,13,17,18,20,23,27,28,34,35,37,40,43,47,46,48,52,53,54	155128	28	41668	150637	104420	30	47	3.28	36.93	96.14	355.43	6	243053	20.5	0	0	1
4467	2,4,7,9,10,13,17,18,20,23,27,28,34,35,37,40,43,47,49,53,54	146952	29	13469	142461	115885	30	43	3.65	37.34	98.71	325.33	6	219308	20.5	0	0	1
4468	2,4,7,9,10,13,17,18,20,23,27,28,34,35,37,40,43,50,54	146073	27	12837	141582	115006	30	44	3.28	39.25	99.79	318.74	5	216534	20.5	0	0	1
4469	2,4,7,9,10,13,17,18,20,23,27,28,34,35,37,42,46,48,51	156835	25	52041	152920	96595	30	48	3.16	36.53	95.32	363.12	7	269336	20.5	0	0	1
4470	2,4,7,9,10,13,17,18,20,23,27,28,34,35,37,42,46,48,52,53,54	153961	25	40461	150045	103829	28	47	3.28	36.93	95.32	354.43	6	238337	20.5	0	0	1
4471	2,4,7,9,10,13,17,18,20,23,27,28,34,35,37,42,47,50,54	146170	26	12893	142254	115678	30	44	3.28	39.25	101.06	319.35	5	216870	20.5	0	0	1
4472	2,4,7,9,10,13,17,18,20,23,27,28,34,35,37,42,49,53,54	145786	25	12262	141870	115294	28	43	3.65	37.34	97.90	324.33	6	214592	20.5	0	0	1
4473	2,4,7,9,10,13,17,18,20,23,27,28,34,36,39,41,40,42,46,48,51	168582	28	88701	154819	88277	30	51	3.26	36.43	144.16	334.03	7	335999	20.5	0	0	1
4474	2,4,7,9,10,13,17,18,20,23,27,28,34,36,39,41,40,42,46,48,52,53,54	165708	28	77121	151945	95511	28	50	3.38	36.83	144.16	325.34	6	305000	20.5	0	0	1
4475	2,4,7,9,10,13,17,18,20,23,27,28,34,36,39,41,40,42,47,50,54	157916	29	49553	144154	107360	30	47	3.38	39.15	149.90	290.26	5	283533	20.5	0	0	1
4476	2,4,7,9,10,13,17,18,20,23,27,28,34,36,39,41,40,42,49,53,54	157532	28	48922	143770	106976	28	46	3.75	37.24	146.74	295.24	6	281255	20.5	0	0	1
4477	2,4,7,9,10,13,17,18,20,23,27,28,34,36,39,41,43,47,46,48,51	168598	29	88758	155411	88869	30	51	3.26	36.43	144.98	334.17	7	336255	20.5	0	0	1
4478	2,4,7,9,10,13,17,18,20,23,27,28,34,36,39,41,43,47,46,48,52,53,54	165724	29	77178	152536	96103	28	50	3.38	36.83	144.98	325.48	6	305256	20.5	0	0	1
4479	2,4,7,9,10,13,17,18,20,23,27,28,34,36,39,41,43,47,49,53,54	157548	30	48978	144361	107568	28	46	3.75	37.24	147.55	295.38	6	281510	20.5	0	0	1
4480	2,4,7,9,10,13,17,18,20,23,27,28,34,36,39,41,43,50,54	156669	28	48347	143482	106689	28	47	3.38	39.15	148.63	288.79	5	278736	20.5	0	0	1
4481	2,4,7,9,10,13,17,18,20,23,27,28,34,36,39,44,55	148445	23	59713	142055	105261	27	42	3.26	38.32	148.02	284.64	5	274711	20.5	0	0	1
4482	2,4,7,9,10,13,17,18,20,23,27,28,34,36,39,45,55	163429	27	87033	149628	98645	32	47	3.66	42.66	168.07	303.90	5	330714	20.5	0	0	1
4483	2,4,7,9,10,13,17,18,20,23,27,28,34,38,40,42,46,48,51	157183	25	52004	152692	106253	31	48	3.42	37.59	95.61	362.04	7	269839	20.5	0	0	6
4484	2,4,7,9,10,13,17,18,20,23,27,28,34,38,40,42,46,48,52,53,54	154309	25	40424	149818	113488	29	47	3.54	37.99	95.61	353.35	6	238840	20.5	0	0	6
4485	2,4,7,9,10,13,17,18,20,23,27,28,34,38,40,42,47,50,54	146517	26	12856	142026	125337	31	44	3.54	40.31	101.35	318.27	5	217373	20.5	0	0	6
4486	2,4,7,9,10,13,17,18,20,23,27,28,34,38,40,42,49,53,54	146133	25	12224	141643	124953	29	43	3.91	38.40	98.19	323.25	6	215095	20.5	0	0	6
4487	2,4,7,9,10,13,17,18,20,23,27,28,34,38,41,44,55	150640	22	36610	139927	123237	28	43	3.42	39.48	99.47	331.19	5	248630	20.5	0	0	6
4488	2,4,7,9,10,13,17,18,20,23,27,28,34,38,41,45,55	165624	26	63929	147501	116621	33	48	3.82	43.82	119.53	350.44	5	304632	20.5	0	0	6

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
4489	2,4,7,9,10,13,17,18,20,23,27,28,34,38,43,47,46,48,51	157199	24	52060	153283	106845	31	48	3.42	37.59	96.43	362.19	7	270095	20.5	0	0	6
4490	2,4,7,9,10,13,17,18,20,23,27,28,34,38,43,47,46,48,52,53,54	154325	24	40480	150409	114079	29	47	3.54	37.99	96.43	353.49	6	239096	20.5	0	0	6
4491	2,4,7,9,10,13,17,18,20,23,27,28,34,38,43,47,49,53,54	146150	25	12280	142234	125544	29	43	3.91	38.40	99.00	323.40	6	215351	20.5	0	0	6
4492	2,4,7,9,10,13,17,18,20,23,27,28,34,38,43,50,54	145270	23	11649	141355	124665	29	44	3.54	40.31	100.08	316.80	5	212576	20.5	0	0	6
4493	2,4,7,9,10,13,17,19,22,24,29,36,35,37,40,41,44,55	165221	27	81392	136312	98818	31	48	2.42	37.70	96.16	353.16	5	375379	52	0	0	1
4494	2,4,7,9,10,13,17,19,22,24,29,36,35,37,40,41,45,55	180205	31	108712	143886	92202	36	53	2.83	42.04	116.21	372.42	5	431381	52	0	0	1
4495	2,4,7,9,10,13,17,19,22,24,29,36,35,37,40,43,47,46,48,51	171780	31	96843	149669	82426	34	53	2.42	35.81	93.12	384.01	7	396844	52	0	0	1
4496	2,4,7,9,10,13,17,19,22,24,29,36,35,37,40,43,47,46,48,52,53,54	168905	31	85263	146794	89660	32	52	2.55	36.21	93.12	375.32	6	365845	52	0	0	1
4497	2,4,7,9,10,13,17,19,22,24,29,36,35,37,40,43,47,49,53,54	160730	32	57063	138619	101125	32	48	2.91	36.62	95.69	345.22	6	342100	52	0	0	1
4498	2,4,7,9,10,13,17,19,22,24,29,36,35,37,40,43,50,54	159851	30	56432	137740	100245	32	49	2.55	38.53	96.77	338.62	5	339326	52	0	0	1
4499	2,4,7,9,10,13,17,19,22,24,29,36,35,37,42,46,48,51	170613	28	95636	149077	81834	32	53	2.42	35.81	92.30	383.01	7	392128	52	0	0	1
4500	2,4,7,9,10,13,17,19,22,24,29,36,35,37,42,46,48,52,53,54	167739	28	84056	146203	89068	30	52	2.55	36.21	92.30	374.32	6	361129	52	0	0	1
4501	2,4,7,9,10,13,17,19,22,24,29,36,35,37,42,47,50,54	159948	29	56488	138412	100917	32	49	2.55	38.53	98.04	339.24	5	339662	52	0	0	1
4502	2,4,7,9,10,13,17,19,22,24,29,36,35,37,42,49,53,54	159564	28	55856	138028	100533	30	48	2.91	36.62	94.88	344.22	6	337383	52	0	0	1
4503	2,4,7,9,10,13,17,19,22,24,29,36,38,40,42,46,48,51	170961	29	95598	148850	91493	33	53	2.68	36.87	92.60	381.90	7	392631	52	0	0	6
4504	2,4,7,9,10,13,17,19,22,24,29,36,38,40,42,46,48,52,53,54	168087	29	84018	145975	98727	31	52	2.80	37.28	92.60	373.21	6	361632	52	0	0	6
4505	2,4,7,9,10,13,17,19,22,24,29,36,38,40,42,47,50,54	160295	30	56450	138184	110576	33	49	2.80	39.60	98.33	338.13	5	340165	52	0	0	6
4506	2,4,7,9,10,13,17,19,22,24,29,36,38,40,42,49,53,54	159911	29	55819	137800	110192	31	48	3.17	37.69	95.17	343.11	6	337886	52	0	0	6
4507	2,4,7,9,10,13,17,19,22,24,29,36,38,41,44,55	164418	26	80204	136085	108477	30	48	2.68	38.76	96.45	351.05	5	371422	52	0	0	6
4508	2,4,7,9,10,13,17,19,22,24,29,36,38,41,45,55	179402	30	107524	143659	101860	35	53	3.08	43.11	116.51	370.30	5	427424	52	0	0	6
4509	2,4,7,9,10,13,17,19,22,24,29,36,38,43,47,46,48,51	170977	28	95655	149441	92084	33	53	2.68	36.87	93.41	382.04	7	392887	52	0	0	6
4510	2,4,7,9,10,13,17,19,22,24,29,36,38,43,47,46,48,52,53,54	168103	28	84075	146567	99318	31	52	2.80	37.28	93.41	373.35	6	361888	52	0	0	6
4511	2,4,7,9,10,13,17,19,22,24,29,36,38,43,47,49,53,54	159928	29	55875	138391	110783	31	48	3.17	37.69	95.98	343.25	6	338142	52	0	0	6
4512	2,4,7,9,10,13,17,19,22,24,29,36,38,43,50,54	159048	27	55243	137512	109904	31	49	2.80	39.60	97.06	336.66	5	335368	52	0	0	6
4513	2,4,7,9,10,13,17,19,22,24,29,39,41,40,42,46,48,51	172732	28	122668	146298	73517	30	56	2.52	35.71	125.30	347.31	7	423235	52	0	0	1
4514	2,4,7,9,10,13,17,19,22,24,29,39,41,40,42,46,48,52,53,54	169857	28	111088	143424	80751	28	55	2.65	36.12	125.30	338.62	6	392236	52	0	0	1
4515	2,4,7,9,10,13,17,19,22,24,29,39,41,40,42,47,50,54	162066	29	83520	135633	92600	30	52	2.65	38.43	131.03	303.54	5	370770	52	0	0	1
4516	2,4,7,9,10,13,17,19,22,24,29,39,41,40,42,49,53,54	161682	28	82888	135249	92216	28	51	3.01	36.53	127.87	308.52	6	368491	52	0	0	1
4517	2,4,7,9,10,13,17,19,22,24,29,39,41,43,47,46,48,51	172748	29	122724	146890	74108	30	56	2.52	35.71	126.11	347.46	7	423491	52	0	0	1
4518	2,4,7,9,10,13,17,19,22,24,29,39,41,43,47,46,48,52,53,54	169874	29	111144	144015	81342	28	55	2.65	36.12	126.11	338.76	6	392492	52	0	0	1
4519	2,4,7,9,10,13,17,19,22,24,29,39,41,43,47,49,53,54	161698	30	82945	135840	92807	28	51	3.01	36.53	128.68	308.67	6	368747	52	0	0	1
4520	2,4,7,9,10,13,17,19,22,24,29,39,41,43,50,54	160819	28	82313	134961	91928	28	52	2.65	38.43	129.76	302.07	5	365973	52	0	0	1
4521	2,4,7,9,10,13,17,19,22,24,29,39,44,55	152595	23	93680	133533	90501	27	47	2.52	37.60	129.15	297.92	5	361948	52	0	0	1
4522	2,4,7,9,10,13,17,19,22,24,29,39,45,55	167579	27	121000	141107	83884	32	52	2.93	41.95	149.21	317.18	5	417950	52	0	0	1
4523	2,4,7,9,10,13,17,19,22,25,29,36,35,37,40,41,44,55	163328	26	79500	133092	103298	31	49	2.44	36.25	97.89	343.20	5	371651	52.5	0	0	1
4524	2,4,7,9,10,13,17,19,22,25,29,36,35,37,40,41,45,55	178312	30	106820	140666	96682	36	54	2.84	40.60	117.94	362.46	5	427654	52.5	0	0	1
4525	2,4,7,9,10,13,17,19,22,25,29,36,35,37,40,43,47,46,48,51	169887	30	94951	146448	86905	34	54	2.44	34.37	94.84	374.04	7	393116	52.5	0	0	1
4526	2,4,7,9,10,13,17,19,22,25,29,36,35,37,40,43,47,46,48,52,53,54	167013	30	83370	143574	94139	32	53	2.56	34.77	94.84	365.35	6	362117	52.5	0	0	1
4527	2,4,7,9,10,13,17,19,22,25,29,36,35,37,40,43,47,49,53,54	158838	31	55171	135398	105604	32	49	2.93	35.18	97.41	335.25	6	338372	52.5	0	0	1
4528	2,4,7,9,10,13,17,19,22,25,29,36,35,37,40,43,50,54	157959	29	54539	134519	104725	32	50	2.56	37.09	98.49	328.66	5	335598	52.5	0	0	1
4529	2,4,7,9,10,13,17,19,22,25,29,36,35,37,42,46,48,51	168721	27	93744	145857	86314	32	54	2.44	34.37	94.03	373.04	7	388400	52.5	0	0	1
4530	2,4,7,9,10,13,17,19,22,25,29,36,35,37,42,46,48,52,53,54	165847	27	82164	142982	93548	30	53	2.56	34.77	94.03	364.35	6	357401	52.5	0	0	1
4531	2,4,7,9,10,13,17,19,22,25,29,36,35,37,42,47,50,54	158055	28	54596	135191	105397	32	50	2.56	37.09	99.76	329.27	5	335934	52.5	0	0	1
4532	2,4,7,9,10,13,17,19,22,25,29,36,35,37,42,49,53,54	157671	27	53964	134807	105013	30	49	2.93	35.18	96.60	334.25	6	333656	52.5	0	0	1
4533	2,4,7,9,10,13,17,19,22,25,29,36,38,40,42,46,48,51	169069	28	93706	145629	95972	33	54	2.70	35.43	94.32	371.94	7	388903	52.5	0	0	6
4534	2,4,7,9,10,13,17,19,22,25,29,36,38,40,42,46,48,52,53,54	166194	28	82126	142755	103207	31	53	2.82	35.84	94.32	363.24	6	357904	52.5	0	0	6
4535	2,4,7,9,10,13,17,19,22,25,29,36,38,40,42,47,50,54	158403	29	54558	134964	115056	33	50	2.82	38.15	100.05	328.16	5	336437	52.5	0	0	6
4536	2,4,7,9,10,13,17,19,22,25,29,36,38,40,42,49,53,54	158019	28	53926	134580	114672	31	49	3.19	36.24	96.89	333.15	6	334159	52.5	0	0	6
4537	2,4,7,9,10,13,17,19,22,25,29,36,38,41,44,55	162526	25	78312	132865	112956	30	49	2.70	37.32	98.18	341.08	5	367694	52.5	0	0	6
4538	2,4,7,9,10,13,17,19,22,25,29,36,38,41,45,55	177510	29	105631	140438	106340	35	54	3.10	41.67	118.23	360.34	5	423696	52.5	0	0	6
4539	2,4,7,9,10,13,17,19,22,25,29,36,38,43,47,46,48,51	169085	27	93762	146221	96564	33	54	2.70	35.43	95.13	372.08	7	389159	52.5	0	0	6

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
4540	2,4,7,9,10,13,17,19,22,25,29,36,38,43,47,46,48,52,53,54	166211	27	82182	143346	103798	31	53	2.82	35.84	95.13	363.39	6	358160	52.5	0	0	6
4541	2,4,7,9,10,13,17,19,22,25,29,36,38,43,47,49,53,54	158035	28	53983	135171	115263	31	49	3.19	36.24	97.71	333.29	6	334415	52.5	0	0	6
4542	2,4,7,9,10,13,17,19,22,25,29,36,38,43,50,54	157156	26	53351	134292	114384	31	50	2.82	38.15	98.79	326.70	5	331640	52.5	0	0	6
4543	2,4,7,9,10,13,17,19,22,25,29,39,41,40,42,46,48,51	170839	27	120776	143078	77996	30	57	2.54	34.27	127.02	337.35	7	419507	52.5	0	0	1
4544	2,4,7,9,10,13,17,19,22,25,29,39,41,40,42,46,48,52,53,54	167965	27	109195	140203	85230	28	56	2.66	34.67	127.02	328.66	6	388508	52.5	0	0	1
4545	2,4,7,9,10,13,17,19,22,25,29,39,41,40,42,47,50,54	160174	28	81627	132412	97079	30	53	2.66	36.99	132.75	293.58	5	367042	52.5	0	0	1
4546	2,4,7,9,10,13,17,19,22,25,29,39,41,40,42,49,53,54	159790	27	80996	132028	96695	28	52	3.03	35.08	129.59	298.56	6	364763	52.5	0	0	1
4547	2,4,7,9,10,13,17,19,22,25,29,39,41,43,47,46,48,51	170856	28	120832	143669	78588	30	57	2.54	34.27	127.83	337.49	7	419763	52.5	0	0	1
4548	2,4,7,9,10,13,17,19,22,25,29,39,41,43,47,46,48,52,53,54	167981	28	109252	140795	85822	28	56	2.66	34.67	127.83	328.80	6	388764	52.5	0	0	1
4549	2,4,7,9,10,13,17,19,22,25,29,39,41,43,47,49,53,54	159806	29	81052	132619	97287	28	52	3.03	35.08	130.41	298.70	6	365019	52.5	0	0	1
4550	2,4,7,9,10,13,17,19,22,25,29,39,41,43,50,54	158927	27	80421	131740	96408	28	53	2.66	36.99	131.49	292.11	5	362245	52.5	0	0	1
4551	2,4,7,9,10,13,17,19,22,25,29,39,44,55	150703	22	91788	130313	94980	27	48	2.54	36.16	130.88	287.96	5	358220	52.5	0	0	1
4552	2,4,7,9,10,13,17,19,22,25,29,39,45,55	165686	26	119107	137887	88364	32	53	2.94	40.50	150.93	307.22	5	414222	52.5	0	0	1
4553	2,4,7,9,10,13,17,21,27,26,30,32,46,47,50,54	168072	31	73575	137981	107696	36	56	2.38	43.09	94.98	375.76	5	374119	33	0	1	5
4554	2,4,7,9,10,13,17,21,27,26,30,32,46,49,53,54	167688	30	72944	137597	107312	34	55	2.74	41.18	91.82	380.16	6	371840	33	0	1	5
4555	2,4,7,9,10,13,17,21,27,26,30,32,48,51	163280	28	97266	133189	81009	36	58	2.25	40.37	89.25	366.31	5	404323	33	0	1	5
4556	2,4,7,9,10,13,17,21,27,26,30,32,48,52,53,54	160406	28	85686	130315	88243	34	57	2.38	40.77	89.25	357.62	4	373324	33	0	1	5
4557	2,4,7,9,10,13,17,21,27,26,31,34,35,37,40,41,44,55	152004	26	44537	138115	111273	31	45	2.67	37.81	79.68	353.87	5	276145	22	0	1	1
4558	2,4,7,9,10,13,17,21,27,26,31,34,35,37,40,41,45,55	166988	30	71857	145688	104656	36	50	3.08	42.16	99.73	373.13	5	332147	22	0	1	1
4559	2,4,7,9,10,13,17,21,27,26,31,34,35,37,40,43,47,46,48,51	158563	30	59988	151471	94880	34	50	2.67	35.93	76.64	384.72	7	297610	22	0	1	1
4560	2,4,7,9,10,13,17,21,27,26,31,34,35,37,40,43,47,46,48,52,53,54	155689	30	48407	148596	102114	32	49	2.80	36.33	76.64	376.02	6	266611	22	0	1	1
4561	2,4,7,9,10,13,17,21,27,26,31,34,35,37,40,43,47,49,53,54	147513	31	20208	140421	113579	32	45	3.16	36.74	79.21	345.93	6	242866	22	0	1	1
4562	2,4,7,9,10,13,17,21,27,26,31,34,35,37,40,43,50,54	146634	29	19576	139542	112700	32	46	2.80	38.65	80.29	339.33	5	240092	22	0	1	1
4563	2,4,7,9,10,13,17,21,27,26,31,34,35,37,42,46,48,51	157396	27	58781	150879	94289	32	50	2.67	35.93	75.82	383.72	7	292894	22	0	1	1
4564	2,4,7,9,10,13,17,21,27,26,31,34,35,37,42,46,48,52,53,54	154522	27	47201	148005	101523	30	49	2.80	36.33	75.82	375.02	6	261895	22	0	1	1
4565	2,4,7,9,10,13,17,21,27,26,31,34,35,37,42,47,50,54	146731	28	19633	140214	113372	32	46	2.80	38.65	81.56	339.94	5	240428	22	0	1	1
4566	2,4,7,9,10,13,17,21,27,26,31,34,35,37,42,49,53,54	146347	27	19001	139830	112988	30	45	3.16	36.74	78.39	344.93	6	238149	22	0	1	1
4567	2,4,7,9,10,13,17,21,27,26,31,34,36,39,41,40,42,46,48,51	169143	30	95441	152779	85971	32	53	2.77	35.83	124.66	354.62	7	359557	22	0	1	1
4568	2,4,7,9,10,13,17,21,27,26,31,34,36,39,41,40,42,46,48,52,53,54	166269	30	83860	149905	93205	30	52	2.90	36.23	124.66	345.93	6	328558	22	0	1	1
4569	2,4,7,9,10,13,17,21,27,26,31,34,36,39,41,40,42,47,50,54	158477	31	56293	142114	105054	32	49	2.90	38.55	130.40	310.85	5	307091	22	0	1	1
4570	2,4,7,9,10,13,17,21,27,26,31,34,36,39,41,40,42,49,53,54	158093	30	55661	141730	104670	30	48	3.26	36.64	127.23	315.83	6	304812	22	0	1	1
4571	2,4,7,9,10,13,17,21,27,26,31,34,36,39,41,43,47,46,48,51	169159	31	95497	153371	86562	32	53	2.77	35.83	125.48	354.77	7	359812	22	0	1	1
4572	2,4,7,9,10,13,17,21,27,26,31,34,36,39,41,43,47,46,48,52,53,54	166285	31	83917	150496	93796	30	52	2.90	36.23	125.48	346.07	6	328813	22	0	1	1
4573	2,4,7,9,10,13,17,21,27,26,31,34,36,39,41,43,47,49,53,54	158109	32	55717	142321	105261	30	48	3.26	36.64	128.05	315.98	6	305068	22	0	1	1
4574	2,4,7,9,10,13,17,21,27,26,31,34,36,39,41,43,50,54	157230	30	55086	141442	104382	30	49	2.90	38.55	129.13	309.38	5	302294	22	0	1	1
4575	2,4,7,9,10,13,17,21,27,26,31,34,36,39,44,55	149006	25	66453	140015	102955	29	44	2.77	37.72	128.52	305.23	5	298269	22	0	1	1
4576	2,4,7,9,10,13,17,21,27,26,31,34,36,39,45,55	163990	29	93772	147588	96338	34	49	3.18	42.06	148.57	324.49	5	354271	22	0	1	1
4577	2,4,7,9,10,13,17,21,27,26,31,34,38,40,42,46,48,51	157744	27	58743	150652	103947	33	50	2.93	36.99	76.11	382.63	7	293397	22	0	1	6
4578	2,4,7,9,10,13,17,21,27,26,31,34,38,40,42,46,48,52,53,54	154870	27	47163	147778	111181	31	49	3.06	37.40	76.11	373.94	6	262398	22	0	1	6
4579	2,4,7,9,10,13,17,21,27,26,31,34,38,40,42,47,50,54	147078	28	19595	139986	123030	33	46	3.06	39.71	81.85	338.86	5	240931	22	0	1	6
4580	2,4,7,9,10,13,17,21,27,26,31,34,38,40,42,49,53,54	146695	27	18963	139602	122646	31	45	3.42	37.80	78.69	343.84	6	238652	22	0	1	6
4581	2,4,7,9,10,13,17,21,27,26,31,34,38,41,44,55	151201	24	43349	137887	120931	30	45	2.93	38.88	79.97	351.78	5	272187	22	0	1	6
4582	2,4,7,9,10,13,17,21,27,26,31,34,38,41,45,55	166185	28	70668	145461	114315	35	50	3.34	43.23	100.02	371.04	5	328190	22	0	1	6
4583	2,4,7,9,10,13,17,21,27,26,31,34,38,43,47,46,48,51	157760	26	58799	151243	104538	33	50	2.93	36.99	76.93	382.78	7	293652	22	0	1	6
4584	2,4,7,9,10,13,17,21,27,26,31,34,38,43,47,46,48,52,53,54	154886	26	47219	148369	111772	31	49	3.06	37.40	76.93	374.09	6	262653	22	0	1	6
4585	2,4,7,9,10,13,17,21,27,26,31,34,38,43,47,49,53,54	146711	27	19020	140194	123238	31	45	3.42	37.80	79.50	343.99	6	238908	22	0	1	6
4586	2,4,7,9,10,13,17,21,27,26,31,34,38,43,50,54	145831	25	18388	139314	122358	31	46	3.06	39.71	80.58	337.39	5	236134	22	0	1	6
4587	2,4,7,9,10,13,17,21,27,26,33,37,40,41,44,55	151428	22	43511	137952	106456	31	46	2.67	36.82	80.11	352.44	5	274859	22	0	1	1
4588	2,4,7,9,10,13,17,21,27,26,33,37,40,41,45,55	166412	26	70830	145526	99839	36	51	3.08	41.17	100.16	371.70	5	330861	22	0	1	1
4589	2,4,7,9,10,13,17,21,27,26,33,37,40,43,47,46,48,51	157987	26	58961	151308	90063	34	51	2.67	34.94	77.06	383.29	7	296324	22	0	1	1
4590	2,4,7,9,10,13,17,21,27,26,33,37,40,43,47,46,48,52,53,54	155113	26	47381	148434	97297	32	50	2.80	35.34	77.06	374.59	6	265325	22	0	1	1

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
4591	2,4,7,9,10,13,17,21,27,26,33,37,40,43,47,49,53,54	146937	27	19182	140258	108762	32	46	3.16	35.75	79.63	344.50	6	241580	22	0	1	1
4592	2,4,7,9,10,13,17,21,27,26,33,37,40,43,50,54	146058	25	18550	139379	107883	32	47	2.80	37.66	80.71	337.90	5	238806	22	0	1	1
4593	2,4,7,9,10,13,17,21,27,26,33,37,42,46,48,51	156820	23	57755	150717	89472	32	51	2.67	34.94	76.25	382.29	7	291608	22	0	1	1
4594	2,4,7,9,10,13,17,21,27,26,33,37,42,46,48,52,53,54	153946	23	46174	147842	96706	30	50	2.80	35.34	76.25	373.59	6	260608	22	0	1	1
4595	2,4,7,9,10,13,17,21,27,26,33,37,42,47,50,54	146155	24	18606	140051	108555	32	47	2.80	37.66	81.98	338.51	5	239142	22	0	1	1
4596	2,4,7,9,10,13,17,21,27,26,33,37,42,49,53,54	145771	23	17975	139667	108171	30	46	3.16	35.75	78.82	343.50	6	236863	22	0	1	1
4597	2,4,7,9,10,13,17,21,28,31,30,32,46,47,50,54	167429	29	71302	138181	110462	36	56	2.38	41.92	101.03	368.78	5	368142	33	0	0	5
4598	2,4,7,9,10,13,17,21,28,31,30,32,46,49,53,54	167045	28	70671	137797	110078	34	55	2.74	40.02	97.87	373.17	6	365864	33	0	0	5
4599	2,4,7,9,10,13,17,21,28,31,30,32,48,51	162638	26	94993	133390	83775	36	58	2.25	39.20	95.29	359.33	5	398346	33	0	0	5
4600	2,4,7,9,10,13,17,21,28,31,30,32,48,52,53,54	159763	26	83413	130515	91010	34	57	2.38	39.61	95.29	350.64	4	367347	33	0	0	5
4601	2,4,7,9,10,13,17,21,28,31,33,37,40,41,44,55	150785	22	41238	138152	109222	31	46	2.67	35.66	86.15	345.40	5	268882	22	0	0	1
4602	2,4,7,9,10,13,17,21,28,31,33,37,40,41,45,55	165769	26	68557	145726	102606	36	51	3.08	40.01	106.21	364.66	5	324885	22	0	0	1
4603	2,4,7,9,10,13,17,21,28,31,33,37,40,43,47,46,48,51	157344	26	56688	151508	92829	34	51	2.67	33.78	83.11	376.25	7	290347	22	0	0	1
4604	2,4,7,9,10,13,17,21,28,31,33,37,40,43,47,46,48,52,53,54	154470	26	45108	148634	100064	32	50	2.80	34.18	83.11	367.56	6	259348	22	0	0	1
4605	2,4,7,9,10,13,17,21,28,31,33,37,40,43,47,49,53,54	146295	27	16909	140459	111529	32	46	3.16	34.59	85.68	337.46	6	235603	22	0	0	1
4606	2,4,7,9,10,13,17,21,28,31,33,37,40,43,50,54	145416	25	16277	139579	110649	32	47	2.80	36.50	86.76	330.86	5	232829	22	0	0	1
4607	2,4,7,9,10,13,17,21,28,31,33,37,42,46,48,51	156178	23	55482	150917	92238	32	51	2.67	33.78	82.30	375.25	7	285631	22	0	0	1
4608	2,4,7,9,10,13,17,21,28,31,33,37,42,46,48,52,53,54	153304	23	43901	148043	99472	30	50	2.80	34.18	82.30	366.56	6	254632	22	0	0	1
4609	2,4,7,9,10,13,17,21,28,31,33,37,42,47,50,54	145512	24	16333	140251	111321	32	47	2.80	36.50	88.03	331.48	5	233165	22	0	0	1
4610	2,4,7,9,10,13,17,21,28,31,33,37,42,49,53,54	145128	23	15702	139867	110937	30	46	3.16	34.59	84.87	336.46	6	230887	22	0	0	1
4611	2,4,7,9,10,13,17,21,28,34,35,37,40,41,44,55	150535	22	41437	138315	114039	31	45	2.67	36.65	85.11	344.71	5	266035	22	0	0	1
4612	2,4,7,9,10,13,17,21,28,34,35,37,40,41,45,55	165519	26	68757	145889	107422	36	50	3.08	41.00	105.16	363.97	5	322038	22	0	0	1
4613	2,4,7,9,10,13,17,21,28,34,35,37,40,43,47,46,48,51	157094	26	56888	151671	97646	34	50	2.67	34.77	82.07	375.56	7	287501	22	0	0	1
4614	2,4,7,9,10,13,17,21,28,34,35,37,40,43,47,46,48,52,53,54	154219	26	45308	148797	104880	32	49	2.80	35.17	82.07	366.87	6	256502	22	0	0	1
4615	2,4,7,9,10,13,17,21,28,34,35,37,40,43,47,49,53,54	146044	27	17108	140621	116345	32	45	3.16	35.58	84.64	336.77	6	232756	22	0	0	1
4616	2,4,7,9,10,13,17,21,28,34,35,37,40,43,50,54	145165	25	16477	139742	115466	32	46	2.80	37.49	85.72	330.17	5	229982	22	0	0	1
4617	2,4,7,9,10,13,17,21,28,34,35,37,42,46,48,51	155927	23	55681	151080	97055	32	50	2.67	34.77	81.25	374.56	7	282784	22	0	0	1
4618	2,4,7,9,10,13,17,21,28,34,35,37,42,46,48,52,53,54	153053	23	44101	148205	104289	30	49	2.80	35.17	81.25	365.87	6	251785	22	0	0	1
4619	2,4,7,9,10,13,17,21,28,34,35,37,42,47,50,54	145262	24	16533	140414	116138	32	46	2.80	37.49	86.99	330.79	5	230319	22	0	0	1
4620	2,4,7,9,10,13,17,21,28,34,35,37,42,49,53,54	144878	23	15901	140030	115754	30	45	3.16	35.58	83.83	335.77	6	228040	22	0	0	1
4621	2,4,7,9,10,13,17,21,28,34,36,39,41,40,42,46,48,51	167674	26	92341	152979	88737	32	53	2.77	34.67	130.09	345.47	7	349447	22	0	0	1
4622	2,4,7,9,10,13,17,21,28,34,36,39,41,40,42,46,48,52,53,54	164799	26	80761	150105	95971	30	52	2.90	35.07	130.09	336.78	6	318448	22	0	0	1
4623	2,4,7,9,10,13,17,21,28,34,36,39,41,40,42,47,50,54	157008	27	53193	142314	107820	32	49	2.90	37.39	135.83	301.69	5	296981	22	0	0	1
4624	2,4,7,9,10,13,17,21,28,34,36,39,41,40,42,49,53,54	156624	26	52561	141930	107436	30	48	3.26	35.48	132.67	306.68	6	294703	22	0	0	1
4625	2,4,7,9,10,13,17,21,28,34,36,39,41,43,47,46,48,51	167690	27	92397	153571	89328	32	53	2.77	34.67	130.91	345.61	7	349703	22	0	0	1
4626	2,4,7,9,10,13,17,21,28,34,36,39,41,43,47,46,48,52,53,54	164816	27	80817	150696	96563	30	52	2.90	35.07	130.91	336.92	6	318704	22	0	0	1
4627	2,4,7,9,10,13,17,21,28,34,36,39,41,43,47,49,53,54	156640	28	52618	142521	108028	30	48	3.26	35.48	133.48	306.82	6	294959	22	0	0	1
4628	2,4,7,9,10,13,17,21,28,34,36,39,41,43,50,54	155761	26	51986	141642	107148	30	49	2.90	37.39	134.56	300.22	5	292185	22	0	0	1
4629	2,4,7,9,10,13,17,21,28,34,36,39,44,55	147537	21	63353	140215	105721	29	44	2.77	36.55	133.95	296.08	5	288160	22	0	0	1
4630	2,4,7,9,10,13,17,21,28,34,36,39,45,55	162521	25	90673	147788	99105	34	49	3.18	40.90	154.00	315.33	5	344162	22	0	0	1
4631	2,4,7,9,10,13,17,21,28,34,38,40,42,46,48,51	156275	23	55643	150852	106713	33	50	2.93	35.83	81.55	373.48	7	283287	22	0	0	6
4632	2,4,7,9,10,13,17,21,28,34,38,40,42,46,48,52,53,54	153401	23	44063	147978	113947	31	49	3.06	36.23	81.55	364.79	6	252288	22	0	0	6
4633	2,4,7,9,10,13,17,21,28,34,38,40,42,47,50,54	145609	24	16495	140186	125796	33	46	3.06	38.55	87.28	329.71	5	230822	22	0	0	6
4634	2,4,7,9,10,13,17,21,28,34,38,40,42,49,53,54	145225	23	15864	139803	125412	31	45	3.42	36.64	84.12	334.69	6	228543	22	0	0	6
4635	2,4,7,9,10,13,17,21,28,34,38,41,44,55	149732	20	40249	138087	123697	30	45	2.93	37.71	85.40	342.62	5	262078	22	0	0	6
4636	2,4,7,9,10,13,17,21,28,34,38,41,45,55	164716	24	67569	145661	117081	35	50	3.34	42.06	105.46	361.88	5	318080	22	0	0	6
4637	2,4,7,9,10,13,17,21,28,34,38,43,47,46,48,51	156291	22	55700	151443	107305	33	50	2.93	35.83	82.36	373.62	7	283543	22	0	0	6
4638	2,4,7,9,10,13,17,21,28,34,38,43,47,46,48,52,53,54	153417	22	44120	148569	114539	31	49	3.06	36.23	82.36	364.93	6	252544	22	0	0	6
4639	2,4,7,9,10,13,17,21,28,34,38,43,47,49,53,54	145242	23	15920	140394	126004	31	45	3.42	36.64	84.93	334.83	6	228799	22	0	0	6
4640	2,4,7,9,10,13,17,21,28,34,38,43,50,54	144362	21	15289	139515	125125	31	46	3.06	38.55	86.01	328.24	5	226025	22	0	0	6
4641	2,4,7,9,10,15,23,26,30,32,46,47,50,54	167400	29	74700	133903	106841	34	53	2.91	44.09	105.96	357.60	5	371220	30	0	1	5

Table F-1: Route Data for All Routes

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
4642	2,4,7,9,10,15,23,26,30,32,46,49,53,54	167016	28	74069	133519	106457	32	52	3.28	42.18	102.80	362.00	6	368941	30	0	1	5
4643	2,4,7,9,10,15,23,26,30,32,48,51	162609	26	98391	129111	80154	34	55	2.79	41.37	100.23	348.15	5	401424	30	0	1	5
4644	2,4,7,9,10,15,23,26,30,32,48,52,53,54	159735	26	86811	126237	87388	32	54	2.91	41.77	100.23	339.46	4	370425	30	0	1	5
4645	2,4,7,9,10,15,23,26,31,34,35,37,40,41,44,55	151333	24	45662	134037	110417	29	42	3.21	38.82	90.66	335.71	5	273246	19	0	1	1
4646	2,4,7,9,10,15,23,26,31,34,35,37,40,41,45,55	166316	28	72981	141610	103800	34	47	3.61	43.17	110.72	354.97	5	329248	19	0	1	1
4647	2,4,7,9,10,15,23,26,31,34,35,37,40,43,47,46,48,51	157892	28	61112	147393	94024	32	47	3.21	36.94	87.62	366.56	7	294711	19	0	1	1
4648	2,4,7,9,10,15,23,26,31,34,35,37,40,43,47,46,48,52,53,54	155017	28	49532	144518	101258	30	46	3.33	37.34	87.62	357.87	6	263712	19	0	1	1
4649	2,4,7,9,10,15,23,26,31,34,35,37,40,43,47,49,53,54	146842	29	21333	136343	112723	30	42	3.70	37.75	90.19	327.77	6	239967	19	0	1	1
4650	2,4,7,9,10,15,23,26,31,34,35,37,40,43,50,54	145963	27	20701	135464	111844	30	43	3.33	39.66	91.27	321.17	5	237193	19	0	1	1
4651	2,4,7,9,10,15,23,26,31,34,35,37,42,46,48,51	156725	25	59906	146801	93433	30	47	3.21	36.94	86.81	365.56	7	289995	19	0	1	1
4652	2,4,7,9,10,15,23,26,31,34,35,37,42,46,48,52,53,54	153851	25	48326	143927	100667	28	46	3.33	37.34	86.81	356.87	6	258996	19	0	1	1
4653	2,4,7,9,10,15,23,26,31,34,35,37,42,47,50,54	146060	26	20758	136136	112516	30	43	3.33	39.66	92.54	321.78	5	237529	19	0	1	1
4654	2,4,7,9,10,15,23,26,31,34,35,37,42,49,53,54	145676	25	20126	135752	112132	28	42	3.70	37.75	89.38	326.77	6	235250	19	0	1	1
4655	2,4,7,9,10,15,23,26,31,34,36,39,41,40,42,46,48,51	168472	28	96566	148701	85115	30	50	3.31	36.84	135.65	336.47	7	356658	19	0	1	1
4656	2,4,7,9,10,15,23,26,31,34,36,39,41,40,42,46,48,52,53,54	165597	28	84985	145827	92349	28	49	3.43	37.24	135.65	327.77	6	325659	19	0	1	1
4657	2,4,7,9,10,15,23,26,31,34,36,39,41,40,42,47,50,54	157806	29	57418	138036	104198	30	46	3.43	39.56	141.38	292.69	5	304192	19	0	1	1
4658	2,4,7,9,10,15,23,26,31,34,36,39,41,40,42,49,53,54	157422	28	56786	137652	103814	28	45	3.80	37.65	138.22	297.67	6	301913	19	0	1	1
4659	2,4,7,9,10,15,23,26,31,34,36,39,41,43,47,46,48,51	168488	29	96622	149293	85707	30	50	3.31	36.84	136.46	336.61	7	356913	19	0	1	1
4660	2,4,7,9,10,15,23,26,31,34,36,39,41,43,47,46,48,52,53,54	165614	29	85042	146418	92941	28	49	3.43	37.24	136.46	327.92	6	325914	19	0	1	1
4661	2,4,7,9,10,15,23,26,31,34,36,39,41,43,47,49,53,54	157438	30	56842	138243	104406	28	45	3.80	37.65	139.03	297.82	6	302169	19	0	1	1
4662	2,4,7,9,10,15,23,26,31,34,36,39,41,43,50,54	156559	28	56211	137364	103526	28	46	3.43	39.56	140.11	291.22	5	299395	19	0	1	1
4663	2,4,7,9,10,15,23,26,31,34,36,39,44,55	148335	23	67578	135937	102099	27	41	3.31	38.72	139.50	287.08	5	295370	19	0	1	1
4664	2,4,7,9,10,15,23,26,31,34,36,39,45,55	163319	27	94897	143510	95483	32	46	3.71	43.07	159.56	306.33	5	351372	19	0	1	1
4665	2,4,7,9,10,15,23,26,31,34,38,40,42,46,48,51	157073	25	59868	146574	103091	31	47	3.47	38.00	87.10	364.48	7	290498	19	0	1	6
4666	2,4,7,9,10,15,23,26,31,34,38,40,42,46,48,52,53,54	154199	25	48288	143700	110325	29	46	3.59	38.40	87.10	355.78	6	259499	19	0	1	6
4667	2,4,7,9,10,15,23,26,31,34,38,40,42,47,50,54	146407	26	20720	135908	122174	31	43	3.59	40.72	92.83	320.70	5	238032	19	0	1	6
4668	2,4,7,9,10,15,23,26,31,34,38,40,42,49,53,54	146023	25	20088	135524	121791	29	42	3.96	38.81	89.67	325.69	6	235753	19	0	1	6
4669	2,4,7,9,10,15,23,26,31,34,38,41,44,55	150530	22	44474	133809	120075	28	42	3.47	39.88	90.95	333.62	5	269288	19	0	1	6
4670	2,4,7,9,10,15,23,26,31,34,38,41,45,55	165514	26	71793	141383	113459	33	47	3.87	44.23	111.01	352.88	5	325291	19	0	1	6
4671	2,4,7,9,10,15,23,26,31,34,38,43,47,46,48,51	157089	24	59924	147165	103683	31	47	3.47	38.00	87.91	364.62	7	290754	19	0	1	6
4672	2,4,7,9,10,15,23,26,31,34,38,43,47,46,48,52,53,54	154215	24	48344	144291	110917	29	46	3.59	38.40	87.91	355.93	6	259754	19	0	1	6
4673	2,4,7,9,10,15,23,26,31,34,38,43,47,49,53,54	146040	25	20145	136116	122382	29	42	3.96	38.81	90.48	325.83	6	236009	19	0	1	6
4674	2,4,7,9,10,15,23,26,31,34,38,43,50,54	145160	23	19513	135236	121503	29	43	3.59	40.72	91.56	319.24	5	233235	19	0	1	6
4675	2,4,7,9,10,15,23,26,33,37,40,41,44,55	150757	20	44636	133874	105600	29	43	3.21	37.83	91.09	334.28	5	271960	19	0	1	1
4676	2,4,7,9,10,15,23,26,33,37,40,41,45,55	165740	24	71955	141448	98984	34	48	3.61	42.18	111.14	353.54	5	327962	19	0	1	1
4677	2,4,7,9,10,15,23,26,33,37,40,43,47,46,48,51	157316	24	60086	147230	89208	32	48	3.21	35.94	88.04	365.13	7	293425	19	0	1	1
4678	2,4,7,9,10,15,23,26,33,37,40,43,47,46,48,52,53,54	154441	24	48506	144356	96442	30	47	3.33	36.35	88.04	356.44	6	262426	19	0	1	1
4679	2,4,7,9,10,15,23,26,33,37,40,43,47,49,53,54	146266	25	20307	136180	107907	30	43	3.70	36.76	90.62	326.34	6	238681	19	0	1	1
4680	2,4,7,9,10,15,23,26,33,37,40,43,50,54	145387	23	19675	135301	107027	30	44	3.33	38.67	91.70	319.74	5	235907	19	0	1	1
4681	2,4,7,9,10,15,23,26,33,37,42,46,48,51	156149	21	58879	146639	88616	30	48	3.21	35.94	87.23	364.13	7	288709	19	0	1	1
4682	2,4,7,9,10,15,23,26,33,37,42,46,48,52,53,54	153275	21	47299	143764	95850	28	47	3.33	36.35	87.23	355.44	6	257710	19	0	1	1
4683	2,4,7,9,10,15,23,26,33,37,42,47,50,54	145484	22	19731	135973	107699	30	44	3.33	38.67	92.96	320.35	5	236243	19	0	1	1
4684	2,4,7,9,10,15,23,26,33,37,42,49,53,54	145100	21	19100	135589	107315	28	43	3.70	36.76	89.80	325.34	6	233964	19	0	1	1
4685	2,4,7,9,10,15,23,27,28,31,30,32,46,47,50,54	167711	29	73381	134103	109607	34	53	2.91	42.93	115.11	350.62	5	369057	30	0	0	5
4686	2,4,7,9,10,15,23,27,28,31,30,32,46,49,53,54	167327	28	72749	133719	109223	32	52	3.28	41.02	111.94	355.02	6	366779	30	0	0	5
4687	2,4,7,9,10,15,23,27,28,31,30,32,48,51	162920	26	97072	129312	82920	34	55	2.79	40.21	109.37	341.17	5	399261	30	0	0	5
4688	2,4,7,9,10,15,23,27,28,31,30,32,48,52,53,54	160046	26	85491	126437	90154	32	54	2.91	40.61	109.37	332.48	4	368262	30	0	0	5
4689	2,4,7,9,10,15,23,27,28,31,33,37,40,41,44,55	151068	22	43316	134074	108366	29	43	3.21	36.67	100.23	327.25	5	269797	19	0	0	1
4690	2,4,7,9,10,15,23,27,28,31,33,37,40,41,45,55	166051	26	70636	141648	101750	34	48	3.61	41.01	120.28	346.50	5	325800	19	0	0	1
4691	2,4,7,9,10,15,23,27,28,31,33,37,40,43,47,46,48,51	157627	26	58767	147430	91974	32	48	3.21	34.78	97.19	358.09	7	291262	19	0	0	1
4692	2,4,7,9,10,15,23,27,28,31,33,37,40,43,47,46,48,52,53,54	154752	26	47187	144556	99208	30	47	3.33	35.18	97.19	349.40	6	260263	19	0	0	1

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
4693	2,4,7,9,10,15,23,27,28,31,33,37,40,43,47,49,53,54	146577	27	18987	136381	110673	30	43	3.70	35.59	99.76	319.30	6	236518	19	0	0	1
4694	2,4,7,9,10,15,23,27,28,31,33,37,40,43,50,54	145698	25	18355	135501	109794	30	44	3.33	37.50	100.84	312.70	5	233744	19	0	0	1
4695	2,4,7,9,10,15,23,27,28,31,33,37,42,46,48,51	156460	23	57560	146839	91382	30	48	3.21	34.78	96.37	357.09	7	286546	19	0	0	1
4696	2,4,7,9,10,15,23,27,28,31,33,37,42,46,48,52,53,54	153586	23	45980	143965	98617	28	47	3.33	35.18	96.37	348.40	6	255547	19	0	0	1
4697	2,4,7,9,10,15,23,27,28,31,33,37,42,47,50,54	145795	24	18412	136173	110466	30	44	3.33	37.50	102.11	313.32	5	234080	19	0	0	1
4698	2,4,7,9,10,15,23,27,28,31,33,37,42,49,53,54	145411	23	17780	135789	110082	28	43	3.70	35.59	98.95	318.30	6	231802	19	0	0	1
4699	2,4,7,9,10,15,23,27,28,34,35,37,40,41,44,55	150817	22	43516	134237	113183	29	42	3.21	37.66	99.19	326.56	5	266950	19	0	0	1
4700	2,4,7,9,10,15,23,27,28,34,35,37,40,41,45,55	165801	26	70835	141811	106567	34	47	3.61	42.01	119.24	345.81	5	322953	19	0	0	1
4701	2,4,7,9,10,15,23,27,28,34,35,37,40,43,47,46,48,51	157376	26	58966	147593	96790	32	47	3.21	35.77	96.14	357.40	7	288416	19	0	0	1
4702	2,4,7,9,10,15,23,27,28,34,35,37,40,43,47,46,48,52,53,54	154502	26	47386	144719	104025	30	46	3.33	36.18	96.14	348.71	6	257417	19	0	0	1
4703	2,4,7,9,10,15,23,27,28,34,35,37,40,43,47,49,53,54	146327	27	19187	136543	115490	30	42	3.70	36.59	98.72	318.61	6	233671	19	0	0	1
4704	2,4,7,9,10,15,23,27,28,34,35,37,40,43,50,54	145447	25	18555	135664	114610	30	43	3.33	38.49	99.80	312.01	5	230897	19	0	0	1
4705	2,4,7,9,10,15,23,27,28,34,35,37,42,46,48,51	156210	23	57760	147002	96199	30	47	3.21	35.77	95.33	356.40	7	283699	19	0	0	1
4706	2,4,7,9,10,15,23,27,28,34,35,37,42,46,48,52,53,54	153335	23	46179	144127	103433	28	46	3.33	36.18	95.33	347.71	6	252700	19	0	0	1
4707	2,4,7,9,10,15,23,27,28,34,35,37,42,47,50,54	145544	24	18612	136336	115282	30	43	3.33	38.49	101.06	312.63	5	231234	19	0	0	1
4708	2,4,7,9,10,15,23,27,28,34,35,37,42,49,53,54	145160	23	17980	135952	114898	28	42	3.70	36.59	97.90	317.61	6	228955	19	0	0	1
4709	2,4,7,9,10,15,23,27,28,34,36,39,41,40,42,46,48,51	167956	26	94420	148901	87881	30	50	3.31	35.68	144.17	327.31	7	350362	19	0	0	1
4710	2,4,7,9,10,15,23,27,28,34,36,39,41,40,42,46,48,52,53,54	165082	26	82839	146027	95116	28	49	3.43	36.08	144.17	318.62	6	319363	19	0	0	1
4711	2,4,7,9,10,15,23,27,28,34,36,39,41,40,42,47,50,54	157291	27	55271	138236	106965	30	46	3.43	38.40	149.90	283.54	5	297896	19	0	0	1
4712	2,4,7,9,10,15,23,27,28,34,36,39,41,40,42,49,53,54	156907	26	54640	137852	106581	28	45	3.80	36.49	146.74	288.52	6	295618	19	0	0	1
4713	2,4,7,9,10,15,23,27,28,34,36,39,41,43,47,46,48,51	167972	27	94476	149493	88473	30	50	3.31	35.68	144.98	327.45	7	350618	19	0	0	1
4714	2,4,7,9,10,15,23,27,28,34,36,39,41,43,47,46,48,52,53,54	165098	27	82896	146618	95707	28	49	3.43	36.08	144.98	318.76	6	319619	19	0	0	1
4715	2,4,7,9,10,15,23,27,28,34,36,39,41,43,47,49,53,54	156923	28	54696	138443	107172	28	45	3.80	36.49	147.56	288.66	6	295874	19	0	0	1
4716	2,4,7,9,10,15,23,27,28,34,36,39,41,43,50,54	156043	26	54065	137564	106293	28	46	3.43	38.40	148.64	282.06	5	293100	19	0	0	1
4717	2,4,7,9,10,15,23,27,28,34,36,39,44,55	147819	21	65432	136137	104865	27	41	3.31	37.56	148.03	277.92	5	289075	19	0	0	1
4718	2,4,7,9,10,15,23,27,28,34,36,39,45,55	162803	25	92751	143710	98249	32	46	3.71	41.91	168.08	297.17	5	345077	19	0	0	1
4719	2,4,7,9,10,15,23,27,28,34,38,40,42,46,48,51	156557	23	57722	146774	105858	31	47	3.47	36.84	95.62	355.32	7	284202	19	0	0	6
4720	2,4,7,9,10,15,23,27,28,34,38,40,42,46,48,52,53,54	153683	23	46142	143900	113092	29	46	3.59	37.24	95.62	346.63	6	253203	19	0	0	6
4721	2,4,7,9,10,15,23,27,28,34,38,40,42,47,50,54	145892	24	18574	136108	124941	31	43	3.59	39.56	101.36	311.55	5	231737	19	0	0	6
4722	2,4,7,9,10,15,23,27,28,34,38,40,42,49,53,54	145508	23	17942	135725	124557	29	42	3.96	37.65	98.20	316.53	6	229458	19	0	0	6
4723	2,4,7,9,10,15,23,27,28,34,38,41,44,55	150014	20	42328	134009	122842	28	42	3.47	38.72	99.48	324.46	5	262993	19	0	0	6
4724	2,4,7,9,10,15,23,27,28,34,38,41,45,55	164998	24	69647	141583	116225	33	47	3.87	43.07	119.53	343.72	5	318995	19	0	0	6
4725	2,4,7,9,10,15,23,27,28,34,38,43,47,46,48,51	156574	22	57778	147365	106449	31	47	3.47	36.84	96.44	355.46	7	284458	19	0	0	6
4726	2,4,7,9,10,15,23,27,28,34,38,43,47,46,48,52,53,54	153699	22	46198	144491	113683	29	46	3.59	37.24	96.44	346.77	6	253459	19	0	0	6
4727	2,4,7,9,10,15,23,27,28,34,38,43,47,49,53,54	145524	23	17999	136316	125148	29	42	3.96	37.65	99.01	316.67	6	229714	19	0	0	6
4728	2,4,7,9,10,15,23,27,28,34,38,43,50,54	144645	21	17367	135437	124269	29	43	3.59	39.56	100.09	310.08	5	226940	19	0	0	6
4729	2,4,7,9,10,16,18,19,22,24,29,36,35,37,40,41,44,55	165287	25	81457	136014	102130	31	47	2.42	37.70	96.16	352.60	5	375881	61.5	0	0	1
4730	2,4,7,9,10,16,18,19,22,24,29,36,35,37,40,41,45,55	180271	29	108777	143587	95513	36	52	2.83	42.04	116.21	371.86	5	431884	61.5	0	0	1
4731	2,4,7,9,10,16,18,19,22,24,29,36,35,37,40,43,47,46,48,51	171846	29	96908	149370	85737	34	52	2.42	35.81	93.12	383.44	7	397347	61.5	0	0	1
4732	2,4,7,9,10,16,18,19,22,24,29,36,35,37,40,43,47,46,48,52,53,54	168971	29	85328	146495	92971	32	51	2.55	36.21	93.12	374.75	6	366348	61.5	0	0	1
4733	2,4,7,9,10,16,18,19,22,24,29,36,35,37,40,43,47,49,53,54	160796	30	57128	138320	104436	32	47	2.91	36.62	95.69	344.65	6	342602	61.5	0	0	1
4734	2,4,7,9,10,16,18,19,22,24,29,36,35,37,40,43,50,54	159917	28	56496	137441	103557	32	48	2.55	38.53	96.77	338.06	5	339828	61.5	0	0	1
4735	2,4,7,9,10,16,18,19,22,24,29,36,35,37,42,46,48,51	170679	26	95701	148778	85145	32	52	2.42	35.81	92.30	382.44	7	392630	61.5	0	0	1
4736	2,4,7,9,10,16,18,19,22,24,29,36,35,37,42,46,48,52,53,54	167805	26	84121	145904	92380	30	51	2.55	36.21	92.30	373.75	6	361631	61.5	0	0	1
4737	2,4,7,9,10,16,18,19,22,24,29,36,35,37,42,47,50,54	160014	27	56553	138113	104229	32	48	2.55	38.53	98.04	338.67	5	340165	61.5	0	0	1
4738	2,4,7,9,10,16,18,19,22,24,29,36,35,37,42,49,53,54	159630	26	55921	137729	103845	30	47	2.91	36.62	94.88	343.65	6	337886	61.5	0	0	1
4739	2,4,7,9,10,16,18,19,22,24,29,36,38,40,42,46,48,51	171027	27	95663	148551	94804	33	52	2.68	36.87	92.60	381.33	7	393133	61.5	0	0	6
4740	2,4,7,9,10,16,18,19,22,24,29,36,38,40,42,46,48,52,53,54	168153	27	84083	145677	102038	31	51	2.80	37.28	92.60	372.64	6	362134	61.5	0	0	6
4741	2,4,7,9,10,16,18,19,22,24,29,36,38,40,42,47,50,54	160361	28	56515	137885	113887	33	48	2.80	39.60	98.33	337.56	5	340668	61.5	0	0	6
4742	2,4,7,9,10,16,18,19,22,24,29,36,38,40,42,49,53,54	159977	27	55883	137501	113503	31	47	3.17	37.69	95.17	342.54	6	338389	61.5	0	0	6
4743	2,4,7,9,10,16,18,19,22,24,29,36,38,41,44,55	164484	24	80269	135786	111788	30	47	2.68	38.76	96.45	350.48	5	371924	61.5	0	0	6

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
4744	2,4,7,9,10,16,18,19,22,24,29,36,38,41,45,55	179468	28	107589	143360	105172	35	52	3.08	43.11	116.51	369.74	5	427926	61.5	0	0	6
4745	2,4,7,9,10,16,18,19,22,24,29,36,38,43,47,46,48,51	171043	26	95720	149142	95395	33	52	2.68	36.87	93.41	381.48	7	393389	61.5	0	0	6
4746	2,4,7,9,10,16,18,19,22,24,29,36,38,43,47,46,48,52,53,54	168169	26	84139	146268	102629	31	51	2.80	37.28	93.41	372.79	6	362390	61.5	0	0	6
4747	2,4,7,9,10,16,18,19,22,24,29,36,38,43,47,49,53,54	159994	27	55940	138093	114094	31	47	3.17	37.69	95.98	342.69	6	338645	61.5	0	0	6
4748	2,4,7,9,10,16,18,19,22,24,29,36,38,43,50,54	159114	25	55308	137213	113215	31	48	2.80	39.60	97.06	336.09	5	335871	61.5	0	0	6
4749	2,4,7,9,10,16,18,19,22,24,29,39,41,40,42,46,48,51	172798	26	122733	145999	76828	30	55	2.52	35.71	125.30	346.75	7	423738	61.5	0	0	1
4750	2,4,7,9,10,16,18,19,22,24,29,39,41,40,42,46,48,52,53,54	169923	26	111153	143125	84062	28	54	2.65	36.12	125.30	338.06	6	392739	61.5	0	0	1
4751	2,4,7,9,10,16,18,19,22,24,29,39,41,40,42,47,50,54	162132	27	83585	135334	95911	30	51	2.65	38.43	131.03	302.98	5	371272	61.5	0	0	1
4752	2,4,7,9,10,16,18,19,22,24,29,39,41,40,42,49,53,54	161748	26	82953	134950	95527	28	50	3.01	36.53	127.87	307.96	6	368993	61.5	0	0	1
4753	2,4,7,9,10,16,18,19,22,24,29,39,41,43,47,46,48,51	172814	27	122789	146591	77419	30	55	2.52	35.71	126.11	346.89	7	423993	61.5	0	0	1
4754	2,4,7,9,10,16,18,19,22,24,29,39,41,43,47,46,48,52,53,54	169940	27	111209	143716	84653	28	54	2.65	36.12	126.11	338.20	6	392994	61.5	0	0	1
4755	2,4,7,9,10,16,18,19,22,24,29,39,41,43,47,49,53,54	161764	28	83009	135541	96118	28	50	3.01	36.53	128.68	308.10	6	369249	61.5	0	0	1
4756	2,4,7,9,10,16,18,19,22,24,29,39,41,43,50,54	160885	26	82378	134662	95239	28	51	2.65	38.43	129.76	301.51	5	366475	61.5	0	0	1
4757	2,4,7,9,10,16,18,19,22,24,29,39,44,55	152661	21	93745	133235	93812	27	46	2.52	37.60	129.15	297.36	5	362450	61.5	0	0	1
4758	2,4,7,9,10,16,18,19,22,24,29,39,45,55	167645	25	121064	140808	87195	32	51	2.93	41.95	149.21	316.62	5	418452	61.5	0	0	1
4759	2,4,7,9,10,16,18,19,22,25,29,36,35,37,40,41,44,55	163394	24	79565	132793	106609	31	48	2.44	36.25	97.89	342.64	5	372154	62	0	0	1
4760	2,4,7,9,10,16,18,19,22,25,29,36,35,37,40,41,45,55	178378	28	106884	140367	99993	36	53	2.84	40.60	117.94	361.89	5	428156	62	0	0	1
4761	2,4,7,9,10,16,18,19,22,25,29,36,35,37,40,43,47,46,48,51	169954	28	95015	146149	90217	34	53	2.44	34.37	94.84	373.48	7	393619	62	0	0	1
4762	2,4,7,9,10,16,18,19,22,25,29,36,35,37,40,43,47,46,48,52,53,54	167079	28	83435	143275	97451	32	52	2.56	34.77	94.84	364.79	6	362620	62	0	0	1
4763	2,4,7,9,10,16,18,19,22,25,29,36,35,37,40,43,47,49,53,54	158904	29	55236	135100	108916	32	48	2.93	35.18	97.41	334.69	6	338874	62	0	0	1
4764	2,4,7,9,10,16,18,19,22,25,29,36,35,37,40,43,50,54	158025	27	54604	134220	108037	32	49	2.56	37.09	98.49	328.09	5	336100	62	0	0	1
4765	2,4,7,9,10,16,18,19,22,25,29,36,35,37,42,46,48,51	168787	25	93809	145558	89625	32	53	2.44	34.37	94.03	372.48	7	388902	62	0	0	1
4766	2,4,7,9,10,16,18,19,22,25,29,36,35,37,42,46,48,52,53,54	165913	25	82228	142684	96859	30	52	2.56	34.77	94.03	363.79	6	357903	62	0	0	1
4767	2,4,7,9,10,16,18,19,22,25,29,36,35,37,42,47,50,54	158121	26	54660	134892	108708	32	49	2.56	37.09	99.76	328.71	5	336437	62	0	0	1
4768	2,4,7,9,10,16,18,19,22,25,29,36,35,37,42,49,53,54	157737	25	54029	134508	108324	30	48	2.93	35.18	96.60	333.69	6	334158	62	0	0	1
4769	2,4,7,9,10,16,18,19,22,25,29,36,38,40,42,46,48,51	169135	26	93771	145330	99284	33	53	2.70	35.43	94.32	371.37	7	389405	62	0	0	6
4770	2,4,7,9,10,16,18,19,22,25,29,36,38,40,42,46,48,52,53,54	166260	26	82191	142456	106518	31	52	2.82	35.84	94.32	362.68	6	358406	62	0	0	6
4771	2,4,7,9,10,16,18,19,22,25,29,36,38,40,42,47,50,54	158469	27	54623	134665	118367	33	49	2.82	38.15	100.05	327.60	5	336940	62	0	0	6
4772	2,4,7,9,10,16,18,19,22,25,29,36,38,40,42,49,53,54	158085	26	53991	134281	117983	31	48	3.19	36.24	96.89	332.58	6	334661	62	0	0	6
4773	2,4,7,9,10,16,18,19,22,25,29,36,38,41,44,55	162592	23	78377	132566	116268	30	48	2.70	37.32	98.18	340.52	5	368196	62	0	0	6
4774	2,4,7,9,10,16,18,19,22,25,29,36,38,41,45,55	177576	27	105696	140139	109651	35	53	3.10	41.67	118.23	359.77	5	424198	62	0	0	6
4775	2,4,7,9,10,16,18,19,22,25,29,36,38,43,47,46,48,51	169151	25	93827	145922	99875	33	53	2.70	35.43	95.13	371.52	7	389661	62	0	0	6
4776	2,4,7,9,10,16,18,19,22,25,29,36,38,43,47,46,48,52,53,54	166277	25	82247	143047	107109	31	52	2.82	35.84	95.13	362.82	6	358662	62	0	0	6
4777	2,4,7,9,10,16,18,19,22,25,29,36,38,43,47,49,53,54	158101	26	54048	134872	118574	31	48	3.19	36.24	97.71	332.72	6	334917	62	0	0	6
4778	2,4,7,9,10,16,18,19,22,25,29,36,38,43,50,54	157222	24	53416	133993	117695	31	49	2.82	38.15	98.79	326.13	5	332143	62	0	0	6
4779	2,4,7,9,10,16,18,19,22,25,29,39,41,40,42,46,48,51	170905	25	120840	142779	81308	30	56	2.54	34.27	127.02	336.79	7	420010	62	0	0	1
4780	2,4,7,9,10,16,18,19,22,25,29,39,41,40,42,46,48,52,53,54	168031	25	109260	139905	88542	28	55	2.66	34.67	127.02	328.09	6	389011	62	0	0	1
4781	2,4,7,9,10,16,18,19,22,25,29,39,41,40,42,47,50,54	160240	26	81692	132113	100391	30	52	2.66	36.99	132.75	293.01	5	367544	62	0	0	1
4782	2,4,7,9,10,16,18,19,22,25,29,39,41,40,42,49,53,54	159856	25	81061	131729	100007	28	51	3.03	35.08	129.59	297.99	6	365265	62	0	0	1
4783	2,4,7,9,10,16,18,19,22,25,29,39,41,43,47,46,48,51	170922	26	120897	143370	81899	30	56	2.54	34.27	127.83	336.93	7	420266	62	0	0	1
4784	2,4,7,9,10,16,18,19,22,25,29,39,41,43,47,46,48,52,53,54	168047	26	109317	140496	89133	28	55	2.66	34.67	127.83	328.24	6	389267	62	0	0	1
4785	2,4,7,9,10,16,18,19,22,25,29,39,41,43,47,49,53,54	159872	27	81117	132321	100598	28	51	3.03	35.08	130.41	298.14	6	365521	62	0	0	1
4786	2,4,7,9,10,16,18,19,22,25,29,39,41,43,50,54	158993	25	80486	131441	99719	28	52	2.66	36.99	131.49	291.54	5	362747	62	0	0	1
4787	2,4,7,9,10,16,18,19,22,25,29,39,44,55	150769	20	91852	130014	98292	27	47	2.54	36.16	130.88	287.40	5	358722	62	0	0	1
4788	2,4,7,9,10,16,18,19,22,25,29,39,45,55	165752	24	119172	137588	91675	32	52	2.94	40.50	150.93	306.65	5	414725	62	0	0	1
4789	2,4,7,9,10,16,18,21,27,26,30,32,46,47,50,54	168138	31	73640	137682	111007	36	55	2.38	43.09	94.98	375.16	5	374621	42.5	0	1	5
4790	2,4,7,9,10,16,18,21,27,26,30,32,46,49,53,54	167754	30	73008	137298	110624	34	54	2.74	41.18	91.82	379.56	6	372342	42.5	0	1	5
4791	2,4,7,9,10,16,18,21,27,26,30,32,48,51	163346	28	97331	132891	84321	36	57	2.25	40.37	89.25	365.71	5	404825	42.5	0	1	5
4792	2,4,7,9,10,16,18,21,27,26,30,32,48,52,53,54	160472	28	85751	130016	91555	34	56	2.38	40.77	89.25	357.02	4	373826	42.5	0	1	5
4793	2,4,7,9,10,16,18,21,27,26,31,34,35,37,40,41,44,55	152070	26	44602	137816	114584	31	44	2.67	37.81	79.68	353.27	5	276647	31.5	0	1	1
4794	2,4,7,9,10,16,18,21,27,26,31,34,35,37,40,41,45,55	167054	30	71921	145390	107967	36	49	3.08	42.16	99.73	372.53	5	332650	31.5	0	1	1

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
4795	2,4,7,9,10,16,18,21,27,26,31,34,35,37,40,43,47,46,48,51	158629	30	60052	151172	98191	34	49	2.67	35.93	76.64	384.12	7	298112	31.5	0	1	1
4796	2,4,7,9,10,16,18,21,27,26,31,34,35,37,40,43,47,46,48,52,53,54	155755	30	48472	148298	105425	32	48	2.80	36.33	76.64	375.43	6	267113	31.5	0	1	1
4797	2,4,7,9,10,16,18,21,27,26,31,34,35,37,40,43,47,49,53,54	147579	31	20273	140122	116890	32	44	3.16	36.74	79.21	345.33	6	243368	31.5	0	1	1
4798	2,4,7,9,10,16,18,21,27,26,31,34,35,37,40,43,50,54	146700	29	19641	139243	116011	32	45	2.80	38.65	80.29	338.73	5	240594	31.5	0	1	1
4799	2,4,7,9,10,16,18,21,27,26,31,34,35,37,42,46,48,51	157462	27	58846	150581	97600	32	49	2.67	35.93	75.82	383.12	7	293396	31.5	0	1	1
4800	2,4,7,9,10,16,18,21,27,26,31,34,35,37,42,46,48,52,53,54	154588	27	47265	147706	104834	30	48	2.80	36.33	75.82	374.43	6	262397	31.5	0	1	1
4801	2,4,7,9,10,16,18,21,27,26,31,34,35,37,42,47,50,54	146797	28	19697	139915	116683	32	45	2.80	38.65	81.56	339.35	5	240930	31.5	0	1	1
4802	2,4,7,9,10,16,18,21,27,26,31,34,35,37,42,49,53,54	146413	27	19066	139531	116299	30	44	3.16	36.74	78.39	344.33	6	238652	31.5	0	1	1
4803	2,4,7,9,10,16,18,21,27,26,31,34,36,39,41,40,42,46,48,51	169209	30	95505	152480	89282	32	52	2.77	35.83	124.66	354.03	7	360059	31.5	0	1	1
4804	2,4,7,9,10,16,18,21,27,26,31,34,36,39,41,40,42,46,48,52,53,54	166335	30	83925	149606	96516	30	51	2.90	36.23	124.66	345.33	6	329060	31.5	0	1	1
4805	2,4,7,9,10,16,18,21,27,26,31,34,36,39,41,40,42,47,50,54	158543	31	56357	141815	108365	32	48	2.90	38.55	130.40	310.25	5	307593	31.5	0	1	1
4806	2,4,7,9,10,16,18,21,27,26,31,34,36,39,41,40,42,49,53,54	158159	30	55726	141431	107981	30	47	3.26	36.64	127.23	315.24	6	305315	31.5	0	1	1
4807	2,4,7,9,10,16,18,21,27,26,31,34,36,39,41,43,47,46,48,51	169225	31	95562	153072	89873	32	52	2.77	35.83	125.48	354.17	7	360315	31.5	0	1	1
4808	2,4,7,9,10,16,18,21,27,26,31,34,36,39,41,43,47,46,48,52,53,54	166351	31	83982	150197	97108	30	51	2.90	36.23	125.48	345.48	6	329316	31.5	0	1	1
4809	2,4,7,9,10,16,18,21,27,26,31,34,36,39,41,43,47,49,53,54	158175	32	55782	142022	108573	30	47	3.26	36.64	128.05	315.38	6	305570	31.5	0	1	1
4810	2,4,7,9,10,16,18,21,27,26,31,34,36,39,41,43,50,54	157296	30	55151	141143	107693	30	48	2.90	38.55	129.13	308.78	5	302796	31.5	0	1	1
4811	2,4,7,9,10,16,18,21,27,26,31,34,36,39,44,55	149072	25	66518	139716	106266	29	43	2.77	37.72	128.52	304.64	5	298771	31.5	0	1	1
4812	2,4,7,9,10,16,18,21,27,26,31,34,36,39,45,55	164056	29	93837	147289	99650	34	48	3.18	42.06	148.57	323.89	5	354774	31.5	0	1	1
4813	2,4,7,9,10,16,18,21,27,26,31,34,38,40,42,46,48,51	157810	27	58808	150353	107258	33	49	2.93	36.99	76.11	382.04	7	293899	31.5	0	1	6
4814	2,4,7,9,10,16,18,21,27,26,31,34,38,40,42,46,48,52,53,54	154936	27	47228	147479	114492	31	48	3.06	37.40	76.11	373.35	6	262900	31.5	0	1	6
4815	2,4,7,9,10,16,18,21,27,26,31,34,38,40,42,47,50,54	147144	28	19660	139687	126341	33	45	3.06	39.71	81.85	338.26	5	241433	31.5	0	1	6
4816	2,4,7,9,10,16,18,21,27,26,31,34,38,40,42,49,53,54	146761	27	19028	139303	125957	31	44	3.42	37.80	78.69	343.25	6	239155	31.5	0	1	6
4817	2,4,7,9,10,16,18,21,27,26,31,34,38,41,44,55	151267	24	43414	137588	124242	30	44	2.93	38.88	79.97	351.18	5	272690	31.5	0	1	6
4818	2,4,7,9,10,16,18,21,27,26,31,34,38,41,45,55	166251	28	70733	145162	117626	35	49	3.34	43.23	100.02	370.44	5	328692	31.5	0	1	6
4819	2,4,7,9,10,16,18,21,27,26,31,34,38,43,47,46,48,51	157826	26	58864	150944	107850	33	49	2.93	36.99	76.93	382.18	7	294155	31.5	0	1	6
4820	2,4,7,9,10,16,18,21,27,26,31,34,38,43,47,46,48,52,53,54	154952	26	47284	148070	115084	31	48	3.06	37.40	76.93	373.49	6	263156	31.5	0	1	6
4821	2,4,7,9,10,16,18,21,27,26,31,34,38,43,47,49,53,54	146777	27	19085	139895	126549	31	44	3.42	37.80	79.50	343.39	6	239410	31.5	0	1	6
4822	2,4,7,9,10,16,18,21,27,26,31,34,38,43,50,54	145897	25	18453	139016	125670	31	45	3.06	39.71	80.58	336.80	5	236636	31.5	0	1	6
4823	2,4,7,9,10,16,18,21,27,26,33,37,40,41,44,55	151494	22	43576	137653	109767	31	45	2.67	36.82	80.11	351.84	5	275361	31.5	0	1	1
4824	2,4,7,9,10,16,18,21,27,26,33,37,40,41,45,55	166478	26	70895	145227	103151	36	50	3.08	41.17	100.16	371.10	5	331363	31.5	0	1	1
4825	2,4,7,9,10,16,18,21,27,26,33,37,40,43,47,46,48,51	158053	26	59026	151009	93374	34	50	2.67	34.94	77.06	382.69	7	296826	31.5	0	1	1
4826	2,4,7,9,10,16,18,21,27,26,33,37,40,43,47,46,48,52,53,54	155179	26	47446	148135	100609	32	49	2.80	35.34	77.06	374.00	6	265827	31.5	0	1	1
4827	2,4,7,9,10,16,18,21,27,26,33,37,40,43,47,49,53,54	147003	27	19246	139960	112074	32	45	3.16	35.75	79.63	343.90	6	242082	31.5	0	1	1
4828	2,4,7,9,10,16,18,21,27,26,33,37,40,43,50,54	146124	25	18615	139080	111194	32	46	2.80	37.66	80.71	337.30	5	239308	31.5	0	1	1
4829	2,4,7,9,10,16,18,21,27,26,33,37,42,46,48,51	156886	23	57819	150418	92783	32	50	2.67	34.94	76.25	381.69	7	292110	31.5	0	1	1
4830	2,4,7,9,10,16,18,21,27,26,33,37,42,46,48,52,53,54	154012	23	46239	147544	100017	30	49	2.80	35.34	76.25	373.00	6	261111	31.5	0	1	1
4831	2,4,7,9,10,16,18,21,27,26,33,37,42,47,50,54	146221	24	18671	139752	111866	32	46	2.80	37.66	81.98	337.92	5	239644	31.5	0	1	1
4832	2,4,7,9,10,16,18,21,27,26,33,37,42,49,53,54	145837	23	18040	139368	111482	30	45	3.16	35.75	78.82	342.90	6	237366	31.5	0	1	1
4833	2,4,7,9,10,16,18,21,28,31,30,32,46,47,50,54	167495	29	71367	137882	113774	36	55	2.38	41.92	101.03	368.18	5	368645	42.5	0	0	5
4834	2,4,7,9,10,16,18,21,28,31,30,32,46,49,53,54	167111	28	70735	137498	113390	34	54	2.74	40.02	97.87	372.58	6	366366	42.5	0	0	5
4835	2,4,7,9,10,16,18,21,28,31,30,32,48,51	162704	26	95058	133091	87087	36	57	2.25	39.20	95.29	358.73	5	398849	42.5	0	0	5
4836	2,4,7,9,10,16,18,21,28,31,30,32,48,52,53,54	159829	26	83478	130216	94321	34	56	2.38	39.61	95.29	350.04	4	367850	42.5	0	0	5
4837	2,4,7,9,10,16,18,21,28,31,33,37,40,41,44,55	150851	22	41303	137853	112533	31	45	2.67	35.66	86.15	344.81	5	269385	31.5	0	0	1
4838	2,4,7,9,10,16,18,21,28,31,33,37,40,41,45,55	165835	26	68622	145427	105917	36	50	3.08	40.01	106.21	364.06	5	325387	31.5	0	0	1
4839	2,4,7,9,10,16,18,21,28,31,33,37,40,43,47,46,48,51	157410	26	56753	151209	96141	34	50	2.67	33.78	83.11	375.65	7	290850	31.5	0	0	1
4840	2,4,7,9,10,16,18,21,28,31,33,37,40,43,47,46,48,52,53,54	154536	26	45173	148335	103375	32	49	2.80	34.18	83.11	366.96	6	259851	31.5	0	0	1
4841	2,4,7,9,10,16,18,21,28,31,33,37,40,43,47,49,53,54	146361	27	16973	140160	114840	32	45	3.16	34.59	85.68	336.86	6	236105	31.5	0	0	1
4842	2,4,7,9,10,16,18,21,28,31,33,37,40,43,50,54	145482	25	16342	139281	113961	32	46	2.80	36.50	86.76	330.26	5	233331	31.5	0	0	1
4843	2,4,7,9,10,16,18,21,28,31,33,37,42,46,48,51	156244	23	55546	150618	95549	32	50	2.67	33.78	82.30	374.65	7	286133	31.5	0	0	1
4844	2,4,7,9,10,16,18,21,28,31,33,37,42,46,48,52,53,54	153370	23	43966	147744	102783	30	49	2.80	34.18	82.30	365.96	6	255134	31.5	0	0	1
4845	2,4,7,9,10,16,18,21,28,31,33,37,42,47,50,54	145578	24	16398	139952	114633	32	46	2.80	36.50	88.03	330.88	5	233668	31.5	0	0	1

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
4846	2,4,7,9,10,16,18,21,28,31,33,37,42,49,53,54	145194	23	15767	139568	114249	30	45	3.16	34.59	84.87	335.86	6	231389	31.5	0	0	1
4847	2,4,7,9,10,16,18,21,28,34,35,37,40,41,44,55	150601	22	41502	138016	117350	31	44	2.67	36.65	85.11	344.12	5	266538	31.5	0	0	1
4848	2,4,7,9,10,16,18,21,28,34,35,37,40,41,45,55	165585	26	68822	145590	110734	36	49	3.08	41.00	105.16	363.37	5	322540	31.5	0	0	1
4849	2,4,7,9,10,16,18,21,28,34,35,37,40,43,47,46,48,51	157160	26	56953	151372	100957	34	49	2.67	34.77	82.07	374.96	7	288003	31.5	0	0	1
4850	2,4,7,9,10,16,18,21,28,34,35,37,40,43,47,46,48,52,53,54	154285	26	45373	148498	108191	32	48	2.80	35.17	82.07	366.27	6	257004	31.5	0	0	1
4851	2,4,7,9,10,16,18,21,28,34,35,37,40,43,47,49,53,54	146110	27	17173	140322	119657	32	44	3.16	35.58	84.64	336.17	6	233259	31.5	0	0	1
4852	2,4,7,9,10,16,18,21,28,34,35,37,40,43,50,54	145231	25	16541	139443	118777	32	45	2.80	37.49	85.72	329.57	5	230485	31.5	0	0	1
4853	2,4,7,9,10,16,18,21,28,34,35,37,42,46,48,51	155993	23	55746	150781	100366	32	49	2.67	34.77	81.25	373.96	7	283287	31.5	0	0	1
4854	2,4,7,9,10,16,18,21,28,34,35,37,42,46,48,52,53,54	153119	23	44166	147906	107600	30	48	2.80	35.17	81.25	365.27	6	252287	31.5	0	0	1
4855	2,4,7,9,10,16,18,21,28,34,35,37,42,47,50,54	145328	24	16598	140115	119449	32	45	2.80	37.49	86.99	330.19	5	230821	31.5	0	0	1
4856	2,4,7,9,10,16,18,21,28,34,35,37,42,49,53,54	144944	23	15966	139731	119065	30	44	3.16	35.58	83.83	335.17	6	228542	31.5	0	0	1
4857	2,4,7,9,10,16,18,21,28,34,36,39,41,40,42,46,48,51	167740	26	92406	152681	92048	32	52	2.77	34.67	130.09	344.87	7	349949	31.5	0	0	1
4858	2,4,7,9,10,16,18,21,28,34,36,39,41,40,42,46,48,52,53,54	164866	26	80826	149806	99282	30	51	2.90	35.07	130.09	336.18	6	318950	31.5	0	0	1
4859	2,4,7,9,10,16,18,21,28,34,36,39,41,40,42,47,50,54	157074	27	53258	142015	111132	32	48	2.90	37.39	135.83	301.10	5	297484	31.5	0	0	1
4860	2,4,7,9,10,16,18,21,28,34,36,39,41,40,42,49,53,54	156690	26	52626	141631	110748	30	47	3.26	35.48	132.67	306.08	6	295205	31.5	0	0	1
4861	2,4,7,9,10,16,18,21,28,34,36,39,41,43,47,46,48,51	167756	27	92462	153272	92640	32	52	2.77	34.67	130.91	345.01	7	350205	31.5	0	0	1
4862	2,4,7,9,10,16,18,21,28,34,36,39,41,43,47,46,48,52,53,54	164882	27	80882	150398	99874	30	51	2.90	35.07	130.91	336.32	6	319206	31.5	0	0	1
4863	2,4,7,9,10,16,18,21,28,34,36,39,41,43,47,49,53,54	156706	28	52683	142222	111339	30	47	3.26	35.48	133.48	306.22	6	295461	31.5	0	0	1
4864	2,4,7,9,10,16,18,21,28,34,36,39,41,43,50,54	155827	26	52051	141343	110460	30	48	2.90	37.39	134.56	299.62	5	292687	31.5	0	0	1
4865	2,4,7,9,10,16,18,21,28,34,36,39,44,55	147603	21	63418	139916	109032	29	43	2.77	36.55	133.95	295.48	5	288662	31.5	0	0	1
4866	2,4,7,9,10,16,18,21,28,34,36,39,45,55	162587	25	90738	147490	102416	34	48	3.18	40.90	154.00	314.73	5	344664	31.5	0	0	1
4867	2,4,7,9,10,16,18,21,28,34,38,40,42,46,48,51	156341	23	55708	150553	110024	33	49	2.93	35.83	81.55	372.88	7	283790	31.5	0	0	6
4868	2,4,7,9,10,16,18,21,28,34,38,40,42,46,48,52,53,54	153467	23	44128	147679	117259	31	48	3.06	36.23	81.55	364.19	6	252790	31.5	0	0	6
4869	2,4,7,9,10,16,18,21,28,34,38,40,42,47,50,54	145675	24	16560	139888	129108	33	45	3.06	38.55	87.28	329.11	5	231324	31.5	0	0	6
4870	2,4,7,9,10,16,18,21,28,34,38,40,42,49,53,54	145291	23	15929	139504	128724	31	44	3.42	36.64	84.12	334.09	6	229045	31.5	0	0	6
4871	2,4,7,9,10,16,18,21,28,34,38,41,44,55	149798	20	40314	137789	127009	30	44	2.93	37.71	85.40	342.02	5	262580	31.5	0	0	6
4872	2,4,7,9,10,16,18,21,28,34,38,41,45,55	164782	24	67634	145362	120392	35	49	3.34	42.06	105.46	361.28	5	318583	31.5	0	0	6
4873	2,4,7,9,10,16,18,21,28,34,38,43,47,46,48,51	156357	22	55765	151145	110616	33	49	2.93	35.83	82.36	373.02	7	284045	31.5	0	0	6
4874	2,4,7,9,10,16,18,21,28,34,38,43,47,46,48,52,53,54	153483	22	44184	148270	117850	31	48	3.06	36.23	82.36	364.33	6	253046	31.5	0	0	6
4875	2,4,7,9,10,16,18,21,28,34,38,43,47,49,53,54	145308	23	15985	140095	129315	31	44	3.42	36.64	84.93	334.23	6	229301	31.5	0	0	6
4876	2,4,7,9,10,16,18,21,28,34,38,43,50,54	144428	21	15353	139216	128436	31	45	3.06	38.55	86.01	327.64	5	226527	31.5	0	0	6
4877	2,4,7,9,10,16,20,23,26,30,32,46,47,50,54	167362	27	68317	139522	110548	34	53	2.86	44.85	105.95	363.02	5	353710	41	0	1	5
4878	2,4,7,9,10,16,20,23,26,30,32,46,49,53,54	166978	26	67685	139138	110164	32	52	3.23	42.94	102.79	367.41	6	351432	41	0	1	5
4879	2,4,7,9,10,16,20,23,26,30,32,48,51	162571	24	92008	134731	83861	34	55	2.74	42.13	100.22	353.57	5	383914	41	0	1	5
4880	2,4,7,9,10,16,20,23,26,30,32,48,52,53,54	159697	24	80428	131856	91095	32	54	2.86	42.53	100.22	344.88	4	352915	41	0	1	5
4881	2,4,7,9,10,16,20,23,26,31,34,35,37,40,41,44,55	151295	22	39279	139656	114124	29	42	3.16	39.58	90.65	341.13	5	255736	30	0	1	1
4882	2,4,7,9,10,16,20,23,26,31,34,35,37,40,41,45,55	166279	26	66598	147230	107508	34	47	3.56	43.92	110.71	360.38	5	311739	30	0	1	1
4883	2,4,7,9,10,16,20,23,26,31,34,35,37,40,43,47,46,48,51	157854	26	54729	153012	97731	32	47	3.16	37.69	87.61	371.97	7	277202	30	0	1	1
4884	2,4,7,9,10,16,20,23,26,31,34,35,37,40,43,47,46,48,52,53,54	154979	26	43149	150138	104965	30	46	3.28	38.09	87.61	363.28	6	246203	30	0	1	1
4885	2,4,7,9,10,16,20,23,26,31,34,35,37,40,43,47,49,53,54	146804	27	14950	141962	116431	30	42	3.65	38.50	90.18	333.18	6	222457	30	0	1	1
4886	2,4,7,9,10,16,20,23,26,31,34,35,37,40,43,50,54	145925	25	14318	141083	115551	30	43	3.28	40.41	91.26	326.59	5	219683	30	0	1	1
4887	2,4,7,9,10,16,20,23,26,31,34,35,37,42,46,48,51	156687	23	53523	152421	97140	30	47	3.16	37.69	86.80	370.97	7	272485	30	0	1	1
4888	2,4,7,9,10,16,20,23,26,31,34,35,37,42,46,48,52,53,54	153813	23	41943	149546	104374	28	46	3.28	38.09	86.80	362.28	6	241486	30	0	1	1
4889	2,4,7,9,10,16,20,23,26,31,34,35,37,42,47,50,54	146022	24	14375	141755	116223	30	43	3.28	40.41	92.53	327.20	5	220020	30	0	1	1
4890	2,4,7,9,10,16,20,23,26,31,34,35,37,42,49,53,54	145638	23	13743	141371	115839	28	42	3.65	38.50	89.37	332.18	6	217741	30	0	1	1
4891	2,4,7,9,10,16,20,23,26,31,34,36,39,41,40,42,46,48,51	168434	26	90183	154320	88822	30	50	3.26	37.59	135.64	341.88	7	339148	30	0	1	1
4892	2,4,7,9,10,16,20,23,26,31,34,36,39,41,40,42,46,48,52,53,54	165559	26	78602	151446	96056	28	49	3.38	38.00	135.64	333.19	6	308149	30	0	1	1
4893	2,4,7,9,10,16,20,23,26,31,34,36,39,41,40,42,47,50,54	157768	27	51035	143655	107905	30	46	3.38	40.31	141.37	298.11	5	286683	30	0	1	1
4894	2,4,7,9,10,16,20,23,26,31,34,36,39,41,40,42,49,53,54	157384	26	50403	143271	107522	28	45	3.75	38.41	138.21	303.09	6	284404	30	0	1	1
4895	2,4,7,9,10,16,20,23,26,31,34,36,39,41,43,47,46,48,51	168450	27	90239	154912	89414	30	50	3.26	37.59	136.45	342.02	7	339404	30	0	1	1
4896	2,4,7,9,10,16,20,23,26,31,34,36,39,41,43,47,46,48,52,53,54	165576	27	78659	152037	96648	28	49	3.38	38.00	136.45	333.33	6	308405	30	0	1	1

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
4897	2,4,7,9,10,16,20,23,26,31,34,36,39,41,43,47,49,53,54	157400	28	50459	143862	108113	28	45	3.75	38.41	139.02	303.23	6	284660	30	0	1	1
4898	2,4,7,9,10,16,20,23,26,31,34,36,39,41,43,50,54	156521	26	49828	142983	107234	28	46	3.38	40.31	140.10	296.64	5	281886	30	0	1	1
4899	2,4,7,9,10,16,20,23,26,31,34,36,39,44,55	148297	21	61195	141556	105806	27	41	3.26	39.48	139.49	292.49	5	277861	30	0	1	1
4900	2,4,7,9,10,16,20,23,26,31,34,36,39,45,55	163281	25	88514	149129	99190	32	46	3.66	43.83	159.55	311.75	5	333863	30	0	1	1
4901	2,4,7,9,10,16,20,23,26,31,34,38,40,42,46,48,51	157035	23	53485	152193	106798	31	47	3.42	38.76	87.09	369.89	7	272988	30	0	1	6
4902	2,4,7,9,10,16,20,23,26,31,34,38,40,42,46,48,52,53,54	154161	23	41905	149319	114033	29	46	3.54	39.16	87.09	361.20	6	241989	30	0	1	6
4903	2,4,7,9,10,16,20,23,26,31,34,38,40,42,47,50,54	146369	24	14337	141527	125882	31	43	3.54	41.48	92.82	326.12	5	220523	30	0	1	6
4904	2,4,7,9,10,16,20,23,26,31,34,38,40,42,49,53,54	145985	23	13705	141143	125498	29	42	3.91	39.57	89.66	331.10	6	218244	30	0	1	6
4905	2,4,7,9,10,16,20,23,26,31,34,38,41,44,55	150492	20	38091	139428	123783	28	42	3.42	40.64	90.95	339.04	5	251779	30	0	1	6
4906	2,4,7,9,10,16,20,23,26,31,34,38,41,45,55	165476	24	65410	147002	117166	33	47	3.82	44.99	111.00	358.29	5	307781	30	0	1	6
4907	2,4,7,9,10,16,20,23,26,31,34,38,43,47,46,48,51	157051	22	53541	152784	107390	31	47	3.42	38.76	87.90	370.04	7	273244	30	0	1	6
4908	2,4,7,9,10,16,20,23,26,31,34,38,43,47,46,48,52,53,54	154177	22	41961	149910	114624	29	46	3.54	39.16	87.90	361.34	6	242245	30	0	1	6
4909	2,4,7,9,10,16,20,23,26,31,34,38,43,47,49,53,54	146002	23	13762	141735	126089	29	42	3.91	39.57	90.47	331.25	6	218500	30	0	1	6
4910	2,4,7,9,10,16,20,23,26,31,34,38,43,50,54	145122	21	13130	140856	125210	29	43	3.54	41.48	91.56	324.65	5	215726	30	0	1	6
4911	2,4,7,9,10,16,20,23,26,33,37,40,41,44,55	150719	18	38253	139493	109307	29	43	3.16	38.58	91.08	339.70	5	254450	30	0	1	1
4912	2,4,7,9,10,16,20,23,26,33,37,40,41,45,55	165703	22	65572	147067	102691	34	48	3.56	42.93	111.13	358.95	5	310453	30	0	1	1
4913	2,4,7,9,10,16,20,23,26,33,37,40,43,47,46,48,51	157278	22	53703	152849	92915	32	48	3.16	36.70	88.04	370.54	7	275915	30	0	1	1
4914	2,4,7,9,10,16,20,23,26,33,37,40,43,47,46,48,52,53,54	154403	22	42123	149975	100149	30	47	3.28	37.10	88.04	361.85	6	244916	30	0	1	1
4915	2,4,7,9,10,16,20,23,26,33,37,40,43,47,49,53,54	146228	23	13924	141800	111614	30	43	3.65	37.51	90.61	331.75	6	221171	30	0	1	1
4916	2,4,7,9,10,16,20,23,26,33,37,40,43,50,54	145349	21	13292	140920	110735	30	44	3.28	39.42	91.69	325.16	5	218397	30	0	1	1
4917	2,4,7,9,10,16,20,23,26,33,37,42,46,48,51	156111	19	52496	152258	92323	30	48	3.16	36.70	87.22	369.54	7	271199	30	0	1	1
4918	2,4,7,9,10,16,20,23,26,33,37,42,46,48,52,53,54	153237	19	40916	149384	99557	28	47	3.28	37.10	87.22	360.85	6	240200	30	0	1	1
4919	2,4,7,9,10,16,20,23,26,33,37,42,47,50,54	145446	20	13348	141592	111406	30	44	3.28	39.42	92.96	325.77	5	218733	30	0	1	1
4920	2,4,7,9,10,16,20,23,26,33,37,42,49,53,54	145062	19	12717	141208	111023	28	43	3.65	37.51	89.80	330.75	6	216455	30	0	1	1
4921	2,4,7,9,10,16,20,23,27,28,31,30,32,46,47,50,54	167673	27	66998	139722	113314	34	53	2.86	43.69	115.10	356.03	5	351548	41	0	0	5
4922	2,4,7,9,10,16,20,23,27,28,31,30,32,46,49,53,54	167289	26	66366	139338	112930	32	52	3.23	41.78	111.94	360.43	6	349269	41	0	0	5
4923	2,4,7,9,10,16,20,23,27,28,31,30,32,48,51	162882	24	90688	134931	86627	34	55	2.74	40.97	109.36	346.59	5	381752	41	0	0	5
4924	2,4,7,9,10,16,20,23,27,28,31,30,32,48,52,53,54	160008	24	79108	132056	93861	32	54	2.86	41.37	109.36	337.89	4	350753	41	0	0	5
4925	2,4,7,9,10,16,20,23,27,28,31,33,37,40,41,44,55	151030	20	36933	139693	112074	29	43	3.16	37.42	100.22	332.66	5	252288	30	0	0	1
4926	2,4,7,9,10,16,20,23,27,28,31,33,37,40,41,45,55	166014	24	64253	147267	105457	34	48	3.56	41.77	120.28	351.92	5	308290	30	0	0	1
4927	2,4,7,9,10,16,20,23,27,28,31,33,37,40,43,47,46,48,51	157589	24	52384	153049	95681	32	48	3.16	35.54	97.18	363.50	7	273753	30	0	0	1
4928	2,4,7,9,10,16,20,23,27,28,31,33,37,40,43,47,46,48,52,53,54	154714	24	40804	150175	102915	30	47	3.28	35.94	97.18	354.81	6	242754	30	0	0	1
4929	2,4,7,9,10,16,20,23,27,28,31,33,37,40,43,47,49,53,54	146539	25	12604	142000	114380	30	43	3.65	36.35	99.75	324.71	6	219009	30	0	0	1
4930	2,4,7,9,10,16,20,23,27,28,31,33,37,40,43,50,54	145660	23	11972	141121	113501	30	44	3.28	38.26	100.83	318.12	5	216235	30	0	0	1
4931	2,4,7,9,10,16,20,23,27,28,31,33,37,42,46,48,51	156422	21	51177	152458	95090	30	48	3.16	35.54	96.37	362.50	7	269037	30	0	0	1
4932	2,4,7,9,10,16,20,23,27,28,31,33,37,42,46,48,52,53,54	153548	21	39597	149584	102324	28	47	3.28	35.94	96.37	353.81	6	238038	30	0	0	1
4933	2,4,7,9,10,16,20,23,27,28,31,33,37,42,47,50,54	145757	22	12029	141792	114173	30	44	3.28	38.26	102.10	318.73	5	216571	30	0	0	1
4934	2,4,7,9,10,16,20,23,27,28,31,33,37,42,49,53,54	145373	21	11397	141408	113789	28	43	3.65	36.35	98.94	323.71	6	214292	30	0	0	1
4935	2,4,7,9,10,16,20,23,27,28,34,35,37,40,41,44,55	150779	20	37133	139856	116890	29	42	3.16	38.41	99.18	331.97	5	249441	30	0	0	1
4936	2,4,7,9,10,16,20,23,27,28,34,35,37,40,41,45,55	165763	24	64452	147430	110274	34	47	3.56	42.76	119.23	351.23	5	305443	30	0	0	1
4937	2,4,7,9,10,16,20,23,27,28,34,35,37,40,43,47,46,48,51	157338	24	52583	153212	100498	32	47	3.16	36.53	96.14	362.81	7	270906	30	0	0	1
4938	2,4,7,9,10,16,20,23,27,28,34,35,37,40,43,47,46,48,52,53,54	154464	24	41003	150338	107732	30	46	3.28	36.93	96.14	354.12	6	239907	30	0	0	1
4939	2,4,7,9,10,16,20,23,27,28,34,35,37,40,43,47,49,53,54	146289	25	12804	142162	119197	30	42	3.65	37.34	98.71	324.02	6	216162	30	0	0	1
4940	2,4,7,9,10,16,20,23,27,28,34,35,37,40,43,50,54	145409	23	12172	141283	118317	30	43	3.28	39.25	99.79	317.43	5	213388	30	0	0	1
4941	2,4,7,9,10,16,20,23,27,28,34,35,37,42,46,48,51	156172	21	51377	152621	99906	30	47	3.16	36.53	95.32	361.81	7	266190	30	0	0	1
4942	2,4,7,9,10,16,20,23,27,28,34,35,37,42,46,48,52,53,54	153297	21	39796	149746	107140	28	46	3.28	36.93	95.32	353.12	6	235191	30	0	0	1
4943	2,4,7,9,10,16,20,23,27,28,34,35,37,42,47,50,54	145506	22	12228	141955	118989	30	43	3.28	39.25	101.06	318.04	5	213724	30	0	0	1
4944	2,4,7,9,10,16,20,23,27,28,34,35,37,42,49,53,54	145122	21	11597	141571	118605	28	42	3.65	37.34	97.90	323.02	6	211445	30	0	0	1
4945	2,4,7,9,10,16,20,23,27,28,34,36,39,41,40,42,46,48,51	167918	24	88036	154521	91589	30	50	3.26	36.43	144.16	332.72	7	332853	30	0	0	1
4946	2,4,7,9,10,16,20,23,27,28,34,36,39,41,40,42,46,48,52,53,54	165044	24	76456	151646	98823	28	49	3.38	36.83	144.16	324.03	6	301854	30	0	0	1
4947	2,4,7,9,10,16,20,23,27,28,34,36,39,41,40,42,47,50,54	157253	25	48888	143855	110672	30	46	3.38	39.15	149.90	288.95	5	280387	30	0	0	1

Table F-1: Route Data for All Routes

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
4948	2,4,7,9,10,16,20,23,27,28,34,36,39,41,40,42,49,53,54	156869	24	48257	143471	110288	28	45	3.75	37.24	146.74	293.93	6	278108	30	0	0	1
4949	2,4,7,9,10,16,20,23,27,28,34,36,39,41,43,47,46,48,51	167934	25	88093	155112	92180	30	50	3.26	36.43	144.98	332.86	7	333108	30	0	0	1
4950	2,4,7,9,10,16,20,23,27,28,34,36,39,41,43,47,46,48,52,53,54	165060	25	76513	152238	99414	28	49	3.38	36.83	144.98	324.17	6	302109	30	0	0	1
4951	2,4,7,9,10,16,20,23,27,28,34,36,39,41,43,47,49,53,54	156885	26	48313	144062	110879	28	45	3.75	37.24	147.55	294.07	6	278364	30	0	0	1
4952	2,4,7,9,10,16,20,23,27,28,34,36,39,41,43,50,54	156006	24	47682	143183	110000	28	46	3.38	39.15	148.63	287.48	5	275590	30	0	0	1
4953	2,4,7,9,10,16,20,23,27,28,34,36,39,44,55	147781	19	59049	141756	108573	27	41	3.26	38.32	148.02	283.33	5	271565	30	0	0	1
4954	2,4,7,9,10,16,20,23,27,28,34,36,39,45,55	162765	23	86368	149330	101956	32	46	3.66	42.66	168.07	302.59	5	327567	30	0	0	1
4955	2,4,7,9,10,16,20,23,27,28,34,38,40,42,46,48,51	156519	21	51339	152393	109565	31	47	3.42	37.59	95.61	360.73	7	266693	30	0	0	6
4956	2,4,7,9,10,16,20,23,27,28,34,38,40,42,46,48,52,53,54	153645	21	39759	149519	116799	29	46	3.54	37.99	95.61	352.04	6	235694	30	0	0	6
4957	2,4,7,9,10,16,20,23,27,28,34,38,40,42,47,50,54	145854	22	12191	141728	128648	31	43	3.54	40.31	101.35	316.96	5	214227	30	0	0	6
4958	2,4,7,9,10,16,20,23,27,28,34,38,40,42,49,53,54	145470	21	11559	141344	128264	29	42	3.91	38.40	98.19	321.94	6	211948	30	0	0	6
4959	2,4,7,9,10,16,20,23,27,28,34,38,41,44,55	149976	18	35945	139629	126549	28	42	3.42	39.48	99.47	329.88	5	245483	30	0	0	6
4960	2,4,7,9,10,16,20,23,27,28,34,38,41,45,55	164960	22	63264	147202	119932	33	47	3.82	43.82	119.53	349.14	5	301486	30	0	0	6
4961	2,4,7,9,10,16,20,23,27,28,34,38,43,47,46,48,51	156536	20	51395	152985	110156	31	47	3.42	37.59	96.43	360.88	7	266949	30	0	0	6
4962	2,4,7,9,10,16,20,23,27,28,34,38,43,47,46,48,52,53,54	153661	20	39815	150110	117390	29	46	3.54	37.99	96.43	352.19	6	235950	30	0	0	6
4963	2,4,7,9,10,16,20,23,27,28,34,38,43,47,49,53,54	145486	21	11616	141935	128855	29	42	3.91	38.40	99.00	322.09	6	212204	30	0	0	6
4964	2,4,7,9,10,16,20,23,27,28,34,38,43,50,54	144607	19	10984	141056	127976	29	43	3.54	40.31	100.08	315.49	5	209430	30	0	0	6
4965	2,4,7,9,8,14,30,31,34,35,37,40,41,44,55	163191	16	105774	140974	114519	30	52	2.70	28.08	112.42	367.00	6	354267	13	0	0	1
4966	2,4,7,9,8,14,30,31,34,35,37,40,41,45,55	178175	20	133094	148547	107903	35	57	3.11	32.43	132.47	386.25	6	410269	13	0	0	1
4967	2,4,7,9,8,14,30,31,34,35,37,40,43,47,46,48,51	169750	20	121225	154330	98126	33	57	2.70	26.20	109.37	397.84	8	375732	13	0	0	1
4968	2,4,7,9,8,14,30,31,34,35,37,40,43,47,46,48,52,53,54	166876	20	109645	151455	105360	31	56	2.83	26.60	109.37	389.15	7	344733	13	0	0	1
4969	2,4,7,9,8,14,30,31,34,35,37,40,43,47,49,53,54	158701	21	81445	143280	116825	31	52	3.19	27.01	111.95	359.05	7	320987	13	0	0	1
4970	2,4,7,9,8,14,30,31,34,35,37,40,43,50,54	157821	19	80814	142401	115946	31	53	2.83	28.92	113.03	352.45	6	318213	13	0	0	1
4971	2,4,7,9,8,14,30,31,34,35,37,42,46,48,51	168584	17	120018	153738	97535	31	57	2.70	26.20	108.56	396.84	8	371015	13	0	0	1
4972	2,4,7,9,8,14,30,31,34,35,37,42,46,48,52,53,54	165709	17	108438	150864	104769	29	56	2.83	26.60	108.56	388.15	7	340016	13	0	0	1
4973	2,4,7,9,8,14,30,31,34,35,37,42,47,50,54	157918	18	80870	143073	116618	31	53	2.83	28.92	114.29	353.07	6	318550	13	0	0	1
4974	2,4,7,9,8,14,30,31,34,35,37,42,49,53,54	157534	17	80238	142689	116234	29	52	3.19	27.01	111.13	358.05	7	316271	13	0	0	1
4975	2,4,7,9,8,14,30,31,34,36,39,41,40,42,46,48,51	180330	20	156678	155638	89217	31	60	2.80	26.10	157.40	367.75	8	437678	13	0	0	1
4976	2,4,7,9,8,14,30,31,34,36,39,41,40,42,46,48,52,53,54	177456	20	145098	152764	96451	29	59	2.93	26.50	157.40	359.06	7	406679	13	0	0	1
4977	2,4,7,9,8,14,30,31,34,36,39,41,40,42,47,50,54	169665	21	117530	144973	108300	31	56	2.93	28.82	163.13	323.98	6	385213	13	0	0	1
4978	2,4,7,9,8,14,30,31,34,36,39,41,40,42,49,53,54	169281	20	116898	144589	107916	29	55	3.29	26.91	159.97	328.96	7	382934	13	0	0	1
4979	2,4,7,9,8,14,30,31,34,36,39,41,43,47,46,48,51	180347	21	156734	156230	89809	31	60	2.80	26.10	158.21	367.89	8	437934	13	0	0	1
4980	2,4,7,9,8,14,30,31,34,36,39,41,43,47,46,48,52,53,54	177472	21	145154	153355	97043	29	59	2.93	26.50	158.21	359.20	7	406935	13	0	0	1
4981	2,4,7,9,8,14,30,31,34,36,39,41,43,47,49,53,54	169297	22	116955	145180	108508	29	55	3.29	26.91	160.79	329.10	7	383190	13	0	0	1
4982	2,4,7,9,8,14,30,31,34,36,39,41,43,50,54	168418	20	116323	144301	107628	29	56	2.93	28.82	161.87	322.50	6	380416	13	0	0	1
4983	2,4,7,9,8,14,30,31,34,36,39,44,55	160194	15	127690	142874	106201	28	51	2.80	27.98	161.26	318.36	6	376391	13	0	0	1
4984	2,4,7,9,8,14,30,31,34,36,39,45,55	175177	19	155010	150447	99585	33	56	3.21	32.33	181.31	337.61	6	432393	13	0	0	1
4985	2,4,7,9,8,14,30,31,34,38,40,42,46,48,51	168932	17	119980	153511	107193	32	57	2.96	27.26	108.85	395.76	8	371518	13	0	0	6
4986	2,4,7,9,8,14,30,31,34,38,40,42,46,48,52,53,54	166057	17	108400	150637	114427	30	56	3.08	27.66	108.85	387.07	7	340519	13	0	0	6
4987	2,4,7,9,8,14,30,31,34,38,40,42,47,50,54	158266	18	80832	142845	126277	32	53	3.08	29.98	114.59	351.99	6	319053	13	0	0	6
4988	2,4,7,9,8,14,30,31,34,38,40,42,49,53,54	157882	17	80201	142461	125893	30	52	3.45	28.07	111.42	356.97	7	316774	13	0	0	6
4989	2,4,7,9,8,14,30,31,34,38,41,44,55	162389	14	104586	140746	124177	29	52	2.96	29.15	112.71	364.90	6	350309	13	0	0	6
4990	2,4,7,9,8,14,30,31,34,38,41,45,55	177372	18	131906	148320	117561	34	57	3.37	33.49	132.76	384.16	6	406311	13	0	0	6
4991	2,4,7,9,8,14,30,31,34,38,43,47,46,48,51	168948	16	120037	154102	107785	32	57	2.96	27.26	109.67	395.90	8	371774	13	0	0	6
4992	2,4,7,9,8,14,30,31,34,38,43,47,46,48,52,53,54	166073	16	108457	151228	115019	30	56	3.08	27.66	109.67	387.21	7	340775	13	0	0	6
4993	2,4,7,9,8,14,30,31,34,38,43,47,49,53,54	157898	17	80257	143053	126484	30	52	3.45	28.07	112.24	357.11	7	317030	13	0	0	6
4994	2,4,7,9,8,14,30,31,34,38,43,50,54	157019	15	79625	142173	125605	30	53	3.08	29.98	113.32	350.52	6	314256	13	0	0	6
4995	2,4,7,9,8,14,30,33,37,40,41,44,55	162615	14	104748	140811	109702	30	53	2.70	27.09	112.84	365.51	6	352980	13	0	0	1
4996	2,4,7,9,8,14,30,33,37,40,41,45,55	177599	18	132068	148385	103086	35	58	3.11	31.44	132.90	384.77	6	408983	13	0	0	1
4997	2,4,7,9,8,14,30,33,37,40,43,47,46,48,51	169174	18	120199	154167	93310	33	58	2.70	25.21	109.80	396.35	8	374446	13	0	0	1
4998	2,4,7,9,8,14,30,33,37,40,43,47,46,48,52,53,54	166300	18	108618	151293	100544	31	57	2.83	25.61	109.80	387.66	7	343447	13	0	0	1

Westar Energy- JEC to East Manhattan
345/230 kV Transmission Line Project
Table F-1: Route Data for All Routes

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
4999	2,4,7,9,8,14,30,33,37,40,43,47,49,53,54	158125	19	80419	143117	112009	31	53	3.19	26.02	112.37	357.56	7	319701	13	0	0	1
5000	2,4,7,9,8,14,30,33,37,40,43,50,54	157245	17	79787	142238	111129	31	54	2.83	27.93	113.45	350.97	6	316927	13	0	0	1
5001	2,4,7,9,8,14,30,33,37,42,46,48,51	168008	15	118992	153576	92718	31	58	2.70	25.21	108.99	395.35	8	369729	13	0	0	1
5002	2,4,7,9,8,14,30,33,37,42,46,48,52,53,54	165133	15	107412	150701	99952	29	57	2.83	25.61	108.99	386.66	7	338730	13	0	0	1
5003	2,4,7,9,8,14,30,33,37,42,47,50,54	157342	16	79844	142910	111801	31	54	2.83	27.93	114.72	351.58	6	317264	13	0	0	1
5004	2,4,7,9,8,14,30,33,37,42,49,53,54	156958	15	79212	142526	111417	29	53	3.19	26.02	111.56	356.56	7	314985	13	0	0	1
5005	2,4,7,9,8,14,32,46,47,50,54	171604	19	127157	140840	110943	33	61	2.41	33.35	127.72	363.91	6	414205	21	0	0	5
5006	2,4,7,9,8,14,32,46,49,53,54	171220	18	126526	140456	110559	31	60	2.77	31.45	124.56	368.31	7	411926	21	0	0	5
5007	2,4,7,9,8,14,32,48,51	166812	16	150848	136048	84256	33	63	2.28	30.63	121.98	354.47	6	444409	21	0	0	5
5008	2,4,7,9,8,14,32,48,52,53,54	163938	16	139268	133174	91490	31	62	2.41	31.04	121.98	345.78	5	413410	21	0	0	5
5009	2,5,19,18,19,22,24,29,36,35,37,40,41,44,55	168539	27	129841	127440	72236	34	44	2.50	43.37	144.16	301.87	8	470916	61.5	2	1	4
5010	2,5,19,18,19,22,24,29,36,35,37,40,41,45,55	183523	31	157161	135014	65620	39	49	2.91	47.72	164.22	321.13	8	526918	61.5	2	1	4
5011	2,5,19,18,19,22,24,29,36,35,37,40,43,47,46,48,51	175098	30	145292	140796	55844	37	49	2.50	41.49	141.12	332.72	10	492381	61.5	2	1	4
5012	2,5,19,18,19,22,24,29,36,35,37,40,43,47,46,48,52,53,54	172224	31	133712	137922	63078	35	48	2.63	41.89	141.12	324.03	9	461382	61.5	2	1	4
5013	2,5,19,18,19,22,24,29,36,35,37,40,43,47,49,53,54	164049	32	105512	129746	74543	35	44	2.99	42.30	143.69	293.93	9	437636	61.5	2	1	4
5014	2,5,19,18,19,22,24,29,36,35,37,40,43,50,54	163169	30	104881	128867	73664	35	45	2.63	44.21	144.77	287.33	8	434862	61.5	2	1	4
5015	2,5,19,18,19,22,24,29,36,35,37,42,46,48,51	173932	27	144085	140205	55252	35	49	2.50	41.49	140.31	331.72	10	487664	61.5	2	1	4
5016	2,5,19,18,19,22,24,29,36,35,37,42,46,48,52,53,54	171057	28	132505	137330	62487	33	48	2.63	41.89	140.31	323.02	9	456665	61.5	2	1	4
5017	2,5,19,18,19,22,24,29,36,35,37,42,47,50,54	163266	29	104937	129539	74336	35	45	2.63	44.21	146.04	287.94	8	435199	61.5	2	1	4
5018	2,5,19,18,19,22,24,29,36,35,37,42,49,53,54	162882	28	104305	129155	73952	33	44	2.99	42.30	142.88	292.93	9	432920	61.5	2	1	4
5019	2,5,19,18,19,22,24,29,36,38,40,42,46,48,51	174279	28	144047	139977	64911	36	49	2.76	42.55	140.60	330.61	10	488167	61.5	2	1	9
5020	2,5,19,18,19,22,24,29,36,38,40,42,46,48,52,53,54	171405	29	132467	137103	72145	34	48	2.89	42.95	140.60	321.92	9	457168	61.5	2	1	9
5021	2,5,19,18,19,22,24,29,36,38,40,42,47,50,54	163614	30	104899	129312	83994	36	45	2.89	45.27	146.33	286.84	8	435702	61.5	2	1	9
5022	2,5,19,18,19,22,24,29,36,38,40,42,49,53,54	163230	29	104268	128928	83610	34	44	3.25	43.36	143.17	291.82	9	433423	61.5	2	1	9
5023	2,5,19,18,19,22,24,29,36,38,41,44,55	167736	26	128653	127213	81895	33	44	2.76	44.43	144.46	299.75	8	466958	61.5	2	1	9
5024	2,5,19,18,19,22,24,29,36,38,41,45,55	182720	30	155973	134786	75278	38	49	3.17	48.78	164.51	319.01	8	522960	61.5	2	1	9
5025	2,5,19,18,19,22,24,29,36,38,43,47,46,48,51	174296	27	144104	140569	65502	36	49	2.76	42.55	141.41	330.75	10	488423	61.5	2	1	9
5026	2,5,19,18,19,22,24,29,36,38,43,47,46,48,52,53,54	171421	28	132524	137694	72736	34	48	2.89	42.95	141.41	322.06	9	457424	61.5	2	1	9
5027	2,5,19,18,19,22,24,29,36,38,43,47,49,53,54	163246	29	104324	129519	84201	34	44	3.25	43.36	143.98	291.96	9	433679	61.5	2	1	9
5028	2,5,19,18,19,22,24,29,36,38,43,50,54	162367	27	103692	128640	83322	34	45	2.89	45.27	145.07	285.37	8	430905	61.5	2	1	9
5029	2,5,19,18,19,22,24,29,39,41,40,42,46,48,51	176050	27	171117	137426	46935	33	52	2.60	41.39	173.30	296.02	10	518772	61.5	2	1	4
5030	2,5,19,18,19,22,24,29,39,41,40,42,46,48,52,53,54	173176	28	159537	134551	54169	31	51	2.73	41.79	173.30	287.33	9	487773	61.5	2	1	4
5031	2,5,19,18,19,22,24,29,39,41,40,42,47,50,54	165384	29	131969	126760	66018	33	48	2.73	44.11	179.03	252.25	8	466306	61.5	2	1	4
5032	2,5,19,18,19,22,24,29,39,41,40,42,49,53,54	165000	28	131337	126376	65634	31	47	3.09	42.20	175.87	257.23	9	464027	61.5	2	1	4
5033	2,5,19,18,19,22,24,29,39,41,43,47,46,48,51	176066	28	171173	138017	47526	33	52	2.60	41.39	174.11	296.16	10	519028	61.5	2	1	4
5034	2,5,19,18,19,22,24,29,39,41,43,47,46,48,52,53,54	173192	29	159593	135143	54760	31	51	2.73	41.79	174.11	287.47	9	488028	61.5	2	1	4
5035	2,5,19,18,19,22,24,29,39,41,43,47,49,53,54	165017	30	131394	126967	66225	31	47	3.09	42.20	176.68	257.37	9	464283	61.5	2	1	4
5036	2,5,19,18,19,22,24,29,39,41,43,50,54	164137	28	130762	126088	65346	31	48	2.73	44.11	177.77	250.78	8	461509	61.5	2	1	4
5037	2,5,19,18,19,22,24,29,39,44,55	155913	23	142129	124661	63919	30	43	2.60	43.27	177.16	246.63	8	457484	61.5	2	1	4
5038	2,5,19,18,19,22,24,29,39,45,55	170897	27	169449	132235	57302	35	48	3.01	47.62	197.21	265.89	8	513486	61.5	2	1	4
5039	2,5,19,18,19,22,25,29,36,35,37,40,41,44,55	166647	26	127949	124220	76716	34	45	2.52	41.93	145.89	291.91	8	467188	62	2	1	4
5040	2,5,19,18,19,22,25,29,36,35,37,40,41,45,55	181631	30	155269	131793	70100	39	50	2.92	46.28	165.94	311.17	8	523190	62	2	1	4
5041	2,5,19,18,19,22,25,29,36,35,37,40,43,47,46,48,51	173206	29	143400	137576	60323	37	50	2.52	40.04	142.84	322.75	10	488653	62	2	1	4
5042	2,5,19,18,19,22,25,29,36,35,37,40,43,47,46,48,52,53,54	170331	30	131819	134701	67558	35	49	2.64	40.45	142.84	314.06	9	457654	62	2	1	4
5043	2,5,19,18,19,22,25,29,36,35,37,40,43,47,49,53,54	162156	31	103620	126526	79023	35	45	3.01	40.86	145.42	283.96	9	433909	62	2	1	4
5044	2,5,19,18,19,22,25,29,36,35,37,40,43,50,54	161277	29	102988	125647	78143	35	46	2.64	42.76	146.50	277.37	8	431135	62	2	1	4
5045	2,5,19,18,19,22,25,29,36,35,37,42,46,48,51	172039	26	142193	136984	59732	35	50	2.52	40.04	142.03	321.75	10	483937	62	2	1	4
5046	2,5,19,18,19,22,25,29,36,35,37,42,46,48,52,53,54	169165	27	130613	134110	66966	33	49	2.64	40.45	142.03	313.06	9	452937	62	2	1	4
5047	2,5,19,18,19,22,25,29,36,35,37,42,47,50,54	161374	28	103045	126319	78815	35	46	2.64	42.76	147.76	277.98	8	431471	62	2	1	4
5048	2,5,19,18,19,22,25,29,36,35,37,42,49,53,54	160990	27	102413	125935	78431	33	45	3.01	40.86	144.60	282.96	9	429192	62	2	1	4
5049	2,5,19,18,19,22,25,29,36,38,40,42,46,48,51	172387	27	142155	136757	69391	36	50	2.78	41.11	142.32	320.64	10	484440	62	2	1	9

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
5050	2,5,19,18,19,22,25,29,36,38,40,42,46,48,52,53,54	169513	28	130575	133882	76625	34	49	2.90	41.51	142.32	311.95	9	453440	62	2	1	9
5051	2,5,19,18,19,22,25,29,36,38,40,42,47,50,54	161721	29	103007	126091	88474	36	46	2.90	43.83	148.06	276.87	8	431974	62	2	1	9
5052	2,5,19,18,19,22,25,29,36,38,40,42,49,53,54	161337	28	102375	125707	88090	34	45	3.27	41.92	144.90	281.85	9	429695	62	2	1	9
5053	2,5,19,18,19,22,25,29,36,38,41,44,55	165844	25	126761	123992	86375	33	45	2.78	42.99	146.18	289.79	8	463230	62	2	1	9
5054	2,5,19,18,19,22,25,29,36,38,41,45,55	180828	29	154080	131566	79758	38	50	3.18	47.34	166.23	309.05	8	519233	62	2	1	9
5055	2,5,19,18,19,22,25,29,36,38,43,47,46,48,51	172403	26	142211	137348	69982	36	50	2.78	41.11	143.14	320.79	10	484695	62	2	1	9
5056	2,5,19,18,19,22,25,29,36,38,43,47,46,48,52,53,54	169529	27	130631	134474	77216	34	49	2.90	41.51	143.14	312.10	9	453696	62	2	1	9
5057	2,5,19,18,19,22,25,29,36,38,43,47,49,53,54	161354	28	102432	126299	88681	34	45	3.27	41.92	145.71	282.00	9	429951	62	2	1	9
5058	2,5,19,18,19,22,25,29,36,38,43,50,54	160474	26	101800	125419	87802	34	46	2.90	43.83	146.79	275.40	8	427177	62	2	1	9
5059	2,5,19,18,19,22,25,29,39,41,40,42,46,48,51	174158	26	169225	134205	51414	33	53	2.62	39.95	175.02	286.06	10	515044	62	2	1	4
5060	2,5,19,18,19,22,25,29,39,41,40,42,46,48,52,53,54	171283	27	157644	131331	58649	31	52	2.74	40.35	175.02	277.37	9	484045	62	2	1	4
5061	2,5,19,18,19,22,25,29,39,41,40,42,47,50,54	163492	28	130076	123540	70498	33	49	2.74	42.67	180.76	242.29	8	462578	62	2	1	4
5062	2,5,19,18,19,22,25,29,39,41,40,42,49,53,54	163108	27	129445	123156	70114	31	48	3.11	40.76	177.60	247.27	9	460300	62	2	1	4
5063	2,5,19,18,19,22,25,29,39,41,43,47,46,48,51	174174	27	169281	134797	52006	33	53	2.62	39.95	175.84	286.20	10	515300	62	2	1	4
5064	2,5,19,18,19,22,25,29,39,41,43,47,46,48,52,53,54	171300	28	157701	131922	59240	31	52	2.74	40.35	175.84	277.51	9	484301	62	2	1	4
5065	2,5,19,18,19,22,25,29,39,41,43,47,49,53,54	163124	29	129501	123747	70705	31	48	3.11	40.76	178.41	247.41	9	460555	62	2	1	4
5066	2,5,19,18,19,22,25,29,39,41,43,50,54	162245	27	128870	122868	69826	31	49	2.74	42.67	179.49	240.81	8	457781	62	2	1	4
5067	2,5,19,18,19,22,25,29,39,44,55	154021	22	140237	121441	68399	30	44	2.62	41.83	178.88	236.67	8	453756	62	2	1	4
5068	2,5,19,18,19,22,25,29,39,45,55	169005	26	167556	129014	61782	35	49	3.03	46.18	198.93	255.92	8	509759	62	2	1	4
5069	2,5,19,18,21,27,26,30,32,46,47,50,54	175938	35	126573	129108	81114	40	54	2.46	48.76	142.98	329.21	8	492398	45.5	2	2	8
5070	2,5,19,18,21,27,26,30,32,46,49,53,54	175554	34	125941	128724	80730	38	53	2.83	46.85	139.82	333.61	9	490119	45.5	2	2	8
5071	2,5,19,18,21,27,26,30,32,48,51	171147	31	150264	124317	54427	40	56	2.34	46.04	137.25	319.76	8	522602	45.5	2	2	8
5072	2,5,19,18,21,27,26,30,32,48,52,53,54	168273	32	138683	121443	61662	38	55	2.46	46.44	137.25	311.07	7	491603	45.5	2	2	8
5073	2,5,19,18,21,27,26,31,34,35,37,40,41,44,55	159871	30	97534	129242	84691	35	43	2.75	43.49	127.68	307.32	8	394424	34.5	2	2	4
5074	2,5,19,18,21,27,26,31,34,35,37,40,41,45,55	174855	34	124854	136816	78074	40	48	3.16	47.84	147.74	326.58	8	450426	34.5	2	2	4
5075	2,5,19,18,21,27,26,31,34,35,37,40,43,47,46,48,51	166430	33	112985	142598	68298	38	48	2.75	41.60	124.64	338.17	10	415889	34.5	2	2	4
5076	2,5,19,18,21,27,26,31,34,35,37,40,43,47,46,48,52,53,54	163555	34	101405	139724	75532	36	47	2.88	42.01	124.64	329.48	9	384890	34.5	2	2	4
5077	2,5,19,18,21,27,26,31,34,35,37,40,43,47,49,53,54	155380	35	73205	131549	86997	36	43	3.25	42.42	127.21	299.38	9	361145	34.5	2	2	4
5078	2,5,19,18,21,27,26,31,34,35,37,40,43,50,54	154501	33	72574	130669	86118	36	44	2.88	44.32	128.29	292.78	8	358371	34.5	2	2	4
5079	2,5,19,18,21,27,26,31,34,35,37,42,46,48,51	165263	30	111778	142007	67707	36	48	2.75	41.60	123.83	337.17	10	411173	34.5	2	2	4
5080	2,5,19,18,21,27,26,31,34,35,37,42,46,48,52,53,54	162389	31	100198	139133	74941	34	47	2.88	42.01	123.83	328.47	9	380174	34.5	2	2	4
5081	2,5,19,18,21,27,26,31,34,35,37,42,47,50,54	154598	32	72630	131341	86790	36	44	2.88	44.32	129.56	293.39	8	358707	34.5	2	2	4
5082	2,5,19,18,21,27,26,31,34,35,37,42,49,53,54	154214	31	71999	130957	86406	34	43	3.25	42.42	126.40	298.38	9	356428	34.5	2	2	4
5083	2,5,19,18,21,27,26,31,34,36,39,41,40,42,46,48,51	177010	33	148438	143907	59389	36	51	2.86	41.51	172.67	308.07	10	477836	34.5	2	2	4
5084	2,5,19,18,21,27,26,31,34,36,39,41,40,42,46,48,52,53,54	174135	34	136858	141032	66623	34	50	2.98	41.91	172.67	299.38	9	446837	34.5	2	2	4
5085	2,5,19,18,21,27,26,31,34,36,39,41,40,42,47,50,54	166344	35	109290	133241	78472	36	47	2.98	44.23	178.40	264.30	8	425370	34.5	2	2	4
5086	2,5,19,18,21,27,26,31,34,36,39,41,40,42,49,53,54	165960	34	108658	132857	78088	34	46	3.35	42.32	175.24	269.28	9	423091	34.5	2	2	4
5087	2,5,19,18,21,27,26,31,34,36,39,41,43,47,46,48,51	177026	34	148495	144498	59980	36	51	2.86	41.51	173.48	308.22	10	478091	34.5	2	2	4
5088	2,5,19,18,21,27,26,31,34,36,39,41,43,47,46,48,52,53,54	174152	35	136914	141624	67215	34	50	2.98	41.91	173.48	299.52	9	447092	34.5	2	2	4
5089	2,5,19,18,21,27,26,31,34,36,39,41,43,47,49,53,54	165976	36	108715	133448	78680	34	46	3.35	42.32	176.05	269.43	9	423347	34.5	2	2	4
5090	2,5,19,18,21,27,26,31,34,36,39,41,43,50,54	165097	34	108083	132569	77800	34	47	2.98	44.23	177.13	262.83	8	420573	34.5	2	2	4
5091	2,5,19,18,21,27,26,31,34,36,39,44,55	156873	29	119450	131142	76373	33	42	2.86	43.39	176.52	258.68	8	416548	34.5	2	2	4
5092	2,5,19,18,21,27,26,31,34,36,39,45,55	171857	33	146770	138716	69757	38	47	3.26	47.74	196.58	277.94	8	472550	34.5	2	2	4
5093	2,5,19,18,21,27,26,31,34,38,40,42,46,48,51	165611	30	111741	141779	77365	37	48	3.01	42.67	124.12	336.08	10	411676	34.5	2	2	9
5094	2,5,19,18,21,27,26,31,34,38,40,42,46,48,52,53,54	162737	31	100160	138905	84599	35	47	3.14	43.07	124.12	327.39	9	380677	34.5	2	2	9
5095	2,5,19,18,21,27,26,31,34,38,40,42,47,50,54	154945	32	72592	131114	96448	37	44	3.14	45.39	129.85	292.31	8	359210	34.5	2	2	9
5096	2,5,19,18,21,27,26,31,34,38,40,42,49,53,54	154561	31	71961	130730	96064	35	43	3.50	43.48	126.69	297.29	9	356931	34.5	2	2	9
5097	2,5,19,18,21,27,26,31,34,38,41,44,55	159068	28	96346	129015	94349	34	43	3.01	44.55	127.97	305.23	8	390466	34.5	2	2	9
5098	2,5,19,18,21,27,26,31,34,38,41,45,55	174052	32	123666	136588	87733	39	48	3.42	48.90	148.03	324.49	8	446469	34.5	2	2	9
5099	2,5,19,18,21,27,26,31,34,38,43,47,46,48,51	165627	29	111797	142371	77957	37	48	3.01	42.67	124.93	336.23	10	411932	34.5	2	2	9
5100	2,5,19,18,21,27,26,31,34,38,43,47,46,48,52,53,54	162753	30	100217	139496	85191	35	47	3.14	43.07	124.93	327.54	9	380933	34.5	2	2	9

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
5101	2,5,19,18,21,27,26,31,34,38,43,47,49,53,54	154578	31	72017	131321	96656	35	43	3.50	43.48	127.50	297.44	9	357187	34.5	2	2	9
5102	2,5,19,18,21,27,26,31,34,38,43,50,54	153698	29	71386	130442	95777	35	44	3.14	45.39	128.58	290.85	8	354413	34.5	2	2	9
5103	2,5,19,18,21,27,26,33,37,40,41,44,55	159295	26	96508	129079	79874	35	44	2.75	42.50	128.11	305.89	8	393138	34.5	2	2	4
5104	2,5,19,18,21,27,26,33,37,40,41,45,55	174279	30	123828	136653	73258	40	49	3.16	46.84	148.16	325.15	8	449140	34.5	2	2	4
5105	2,5,19,18,21,27,26,33,37,40,43,47,46,48,51	165854	29	111959	142436	63481	38	49	2.75	40.61	125.06	336.74	10	414603	34.5	2	2	4
5106	2,5,19,18,21,27,26,33,37,40,43,47,46,48,52,53,54	162979	30	100379	139561	70716	36	48	2.88	41.01	125.06	328.05	9	383604	34.5	2	2	4
5107	2,5,19,18,21,27,26,33,37,40,43,47,49,53,54	154804	31	72179	131386	82181	36	44	3.25	41.42	127.64	297.95	9	359859	34.5	2	2	4
5108	2,5,19,18,21,27,26,33,37,40,43,50,54	153925	29	71548	130507	81301	36	45	2.88	43.33	128.72	291.35	8	357085	34.5	2	2	4
5109	2,5,19,18,21,27,26,33,37,42,46,48,51	164687	26	110752	141844	62890	36	49	2.75	40.61	124.25	335.74	10	409887	34.5	2	2	4
5110	2,5,19,18,21,27,26,33,37,42,46,48,52,53,54	161813	27	99172	138970	70124	34	48	2.88	41.01	124.25	327.04	9	378888	34.5	2	2	4
5111	2,5,19,18,21,27,26,33,37,42,47,50,54	154022	28	71604	131179	81973	36	45	2.88	43.33	129.98	291.96	8	357421	34.5	2	2	4
5112	2,5,19,18,21,27,26,33,37,42,49,53,54	153638	27	70972	130795	81589	34	44	3.25	41.42	126.82	296.95	9	355142	34.5	2	2	4
5113	2,5,19,18,21,28,31,30,32,46,47,50,54	175296	33	124300	129309	83881	40	54	2.46	47.60	149.03	322.23	8	486421	45.5	2	1	8
5114	2,5,19,18,21,28,31,30,32,46,49,53,54	174912	32	123668	128925	83497	38	53	2.83	45.69	145.87	326.62	9	484143	45.5	2	1	8
5115	2,5,19,18,21,28,31,30,32,48,51	170504	29	147991	124517	57194	40	56	2.34	44.88	143.30	312.78	8	516625	45.5	2	1	8
5116	2,5,19,18,21,28,31,30,32,48,52,53,54	167630	30	136410	121643	64428	38	55	2.46	45.28	143.30	304.09	7	485626	45.5	2	1	8
5117	2,5,19,18,21,28,31,33,37,40,41,44,55	158652	26	94235	129280	82640	35	44	2.75	41.33	134.16	298.85	8	387161	34.5	2	1	4
5118	2,5,19,18,21,28,31,33,37,40,41,45,55	173636	30	121555	136853	76024	40	49	3.16	45.68	154.21	318.11	8	443164	34.5	2	1	4
5119	2,5,19,18,21,28,31,33,37,40,43,47,46,48,51	165211	29	109686	142636	66248	38	49	2.75	39.45	131.11	329.70	10	408626	34.5	2	1	4
5120	2,5,19,18,21,28,31,33,37,40,43,47,46,48,52,53,54	162337	30	98106	139761	73482	36	48	2.88	39.85	131.11	321.01	9	377627	34.5	2	1	4
5121	2,5,19,18,21,28,31,33,37,40,43,47,49,53,54	154162	31	69906	131586	84947	36	44	3.25	40.26	133.69	290.91	9	353882	34.5	2	1	4
5122	2,5,19,18,21,28,31,33,37,40,43,50,54	153282	29	69275	130707	84068	36	45	2.88	42.17	134.77	284.31	8	351108	34.5	2	1	4
5123	2,5,19,18,21,28,31,33,37,42,46,48,51	164045	26	108479	142044	65656	36	49	2.75	39.45	130.30	328.70	10	403910	34.5	2	1	4
5124	2,5,19,18,21,28,31,33,37,42,46,48,52,53,54	161170	27	96899	139170	72890	34	48	2.88	39.85	130.30	320.01	9	372911	34.5	2	1	4
5125	2,5,19,18,21,28,31,33,37,42,47,50,54	153379	28	69331	131379	84739	36	45	2.88	42.17	136.03	284.93	8	351444	34.5	2	1	4
5126	2,5,19,18,21,28,31,33,37,42,49,53,54	152995	27	68699	130995	84355	34	44	3.25	40.26	132.87	289.91	9	349166	34.5	2	1	4
5127	2,5,19,18,21,28,34,35,37,40,41,44,55	158402	26	94435	129442	87457	35	43	2.75	42.33	133.11	298.17	8	384315	34.5	2	1	4
5128	2,5,19,18,21,28,34,35,37,40,41,45,55	173385	30	121754	137016	80841	40	48	3.16	46.67	153.17	317.42	8	440317	34.5	2	1	4
5129	2,5,19,18,21,28,34,35,37,40,43,47,46,48,51	164961	29	109885	142798	71064	38	48	2.75	40.44	130.07	329.01	10	405780	34.5	2	1	4
5130	2,5,19,18,21,28,34,35,37,40,43,47,46,48,52,53,54	162086	30	98305	139924	78298	36	47	2.88	40.84	130.07	320.32	9	374781	34.5	2	1	4
5131	2,5,19,18,21,28,34,35,37,40,43,47,49,53,54	153911	31	70106	131749	89763	36	43	3.25	41.25	132.64	290.22	9	351035	34.5	2	1	4
5132	2,5,19,18,21,28,34,35,37,40,43,50,54	153032	29	69474	130870	88884	36	44	2.88	43.16	133.72	283.62	8	348261	34.5	2	1	4
5133	2,5,19,18,21,28,34,35,37,42,46,48,51	163794	26	108679	142207	70473	36	48	2.75	40.44	129.26	328.01	10	401063	34.5	2	1	4
5134	2,5,19,18,21,28,34,35,37,42,46,48,52,53,54	160920	27	97099	139333	77707	34	47	2.88	40.84	129.26	319.32	9	370064	34.5	2	1	4
5135	2,5,19,18,21,28,34,35,37,42,47,50,54	153129	28	69531	131541	89556	36	44	2.88	43.16	134.99	284.24	8	348598	34.5	2	1	4
5136	2,5,19,18,21,28,34,35,37,42,49,53,54	152745	27	68899	131157	89172	34	43	3.25	41.25	131.83	289.22	9	346319	34.5	2	1	4
5137	2,5,19,18,21,28,34,36,39,41,40,42,46,48,51	175541	29	145339	144107	62155	36	51	2.86	40.34	178.10	298.92	10	467726	34.5	2	1	4
5138	2,5,19,18,21,28,34,36,39,41,40,42,46,48,52,53,54	172666	30	133758	141233	69389	34	50	2.98	40.75	178.10	290.23	9	436727	34.5	2	1	4
5139	2,5,19,18,21,28,34,36,39,41,40,42,47,50,54	164875	31	106190	133441	81238	36	47	2.98	43.06	183.83	255.15	8	415261	34.5	2	1	4
5140	2,5,19,18,21,28,34,36,39,41,40,42,49,53,54	164491	30	105559	133057	80854	34	46	3.35	41.15	180.67	260.13	9	412982	34.5	2	1	4
5141	2,5,19,18,21,28,34,36,39,41,43,47,46,48,51	175557	30	145395	144698	62747	36	51	2.86	40.34	178.91	299.06	10	467982	34.5	2	1	4
5142	2,5,19,18,21,28,34,36,39,41,43,47,46,48,52,53,54	172683	31	133815	141824	69981	34	50	2.98	40.75	178.91	290.37	9	436983	34.5	2	1	4
5143	2,5,19,18,21,28,34,36,39,41,43,47,49,53,54	164507	32	105615	133649	81446	34	46	3.35	41.15	181.48	260.27	9	413238	34.5	2	1	4
5144	2,5,19,18,21,28,34,36,39,41,43,50,54	163628	30	104984	132769	80567	34	47	2.98	43.06	182.56	253.67	8	410464	34.5	2	1	4
5145	2,5,19,18,21,28,34,36,39,44,55	155404	25	116351	131342	79139	33	42	2.86	42.23	181.95	249.53	8	406439	34.5	2	1	4
5146	2,5,19,18,21,28,34,36,39,45,55	170388	29	143670	138916	72523	38	47	3.26	46.57	202.01	268.78	8	462441	34.5	2	1	4
5147	2,5,19,18,21,28,34,38,40,42,46,48,51	164142	26	108641	141980	80131	37	48	3.01	41.50	129.55	326.93	10	401566	34.5	2	1	9
5148	2,5,19,18,21,28,34,38,40,42,46,48,52,53,54	161268	27	97061	139105	87366	35	47	3.14	41.91	129.55	318.24	9	370567	34.5	2	1	9
5149	2,5,19,18,21,28,34,38,40,42,47,50,54	153476	28	69493	131314	99215	37	44	3.14	44.22	135.28	283.16	8	349101	34.5	2	1	9
5150	2,5,19,18,21,28,34,38,40,42,49,53,54	153092	27	68861	130930	98831	35	43	3.50	42.32	132.12	288.14	9	346822	34.5	2	1	9
5151	2,5,19,18,21,28,34,38,41,44,55	157599	24	93247	129215	97116	34	43	3.01	43.39	133.41	296.07	8	380357	34.5	2	1	9

Westar Energy- JEC to East Manhattan
345/230 kV Transmission Line Project
Table F-1: Route Data for All Routes

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
5152	2,5,19,18,21,28,34,38,41,45,55	172583	28	120566	136789	90499	39	48	3.42	47.74	153.46	315.33	8	436359	34.5	2	1	9
5153	2,5,19,18,21,28,34,38,43,47,46,48,51	164158	25	108697	142571	80723	37	48	3.01	41.50	130.36	327.07	10	401822	34.5	2	1	9
5154	2,5,19,18,21,28,34,38,43,47,46,48,52,53,54	161284	26	97117	139697	87957	35	47	3.14	41.91	130.36	318.38	9	370823	34.5	2	1	9
5155	2,5,19,18,21,28,34,38,43,47,49,53,54	153108	27	68918	131521	99422	35	43	3.50	42.32	132.93	288.28	9	347078	34.5	2	1	9
5156	2,5,19,18,21,28,34,38,43,50,54	152229	25	68286	130642	98543	35	44	3.14	44.22	134.01	281.69	8	344304	34.5	2	1	9
5157	2,5,19,21,27,26,30,32,46,47,50,54	175574	33	126208	129108	81114	40	54	2.46	48.76	142.98	328.83	8	490574	45.5	2	2	8
5158	2,5,19,21,27,26,30,32,46,49,53,54	175190	32	125576	128724	80730	38	53	2.83	46.85	139.82	333.23	9	488295	45.5	2	2	8
5159	2,5,19,21,27,26,30,32,48,51	170782	30	149899	124317	54427	40	56	2.34	46.04	137.25	319.39	8	520778	45.5	2	2	8
5160	2,5,19,21,27,26,30,32,48,52,53,54	167908	30	138319	121443	61662	38	55	2.46	46.44	137.25	310.70	7	489779	45.5	2	2	8
5161	2,5,19,21,27,26,31,34,35,37,40,41,44,55	159506	28	97170	129242	84691	35	43	2.75	43.49	127.68	306.95	8	392600	34.5	2	2	4
5162	2,5,19,21,27,26,31,34,35,37,40,41,45,55	174490	32	124489	136816	78074	40	48	3.16	47.84	147.74	326.20	8	448602	34.5	2	2	4
5163	2,5,19,21,27,26,31,34,35,37,40,43,47,46,48,51	166065	32	112620	142598	68298	38	48	2.75	41.60	124.64	337.79	10	414065	34.5	2	2	4
5164	2,5,19,21,27,26,31,34,35,37,40,43,47,46,48,52,53,54	163191	32	101040	139724	75532	36	47	2.88	42.01	124.64	329.10	9	383066	34.5	2	2	4
5165	2,5,19,21,27,26,31,34,35,37,40,43,47,49,53,54	155015	33	72840	131549	86997	36	43	3.25	42.42	127.21	299.00	9	359320	34.5	2	2	4
5166	2,5,19,21,27,26,31,34,35,37,40,43,50,54	154136	31	72209	130669	86118	36	44	2.88	44.32	128.29	292.41	8	356546	34.5	2	2	4
5167	2,5,19,21,27,26,31,34,35,37,42,46,48,51	164898	29	111413	142007	67707	36	48	2.75	41.60	123.83	336.79	10	409348	34.5	2	2	4
5168	2,5,19,21,27,26,31,34,35,37,42,46,48,52,53,54	162024	29	99833	139133	74941	34	47	2.88	42.01	123.83	328.10	9	378349	34.5	2	2	4
5169	2,5,19,21,27,26,31,34,35,37,42,47,50,54	154233	30	72265	131341	86790	36	44	2.88	44.32	129.56	293.02	8	356883	34.5	2	2	4
5170	2,5,19,21,27,26,31,34,35,37,42,49,53,54	153849	29	71634	130957	86406	34	43	3.25	42.42	126.40	298.00	9	354604	34.5	2	2	4
5171	2,5,19,21,27,26,31,34,36,39,41,40,42,46,48,51	176645	32	148073	143907	59389	36	51	2.86	41.51	172.67	307.70	10	476011	34.5	2	2	4
5172	2,5,19,21,27,26,31,34,36,39,41,40,42,46,48,52,53,54	173771	32	136493	141032	66623	34	50	2.98	41.91	172.67	299.01	9	445012	34.5	2	2	4
5173	2,5,19,21,27,26,31,34,36,39,41,40,42,47,50,54	165979	33	108925	133241	78472	36	47	2.98	44.23	178.40	263.93	8	423546	34.5	2	2	4
5174	2,5,19,21,27,26,31,34,36,39,41,40,42,49,53,54	165595	32	108294	132857	78088	34	46	3.35	42.32	175.24	268.91	9	421267	34.5	2	2	4
5175	2,5,19,21,27,26,31,34,36,39,41,43,47,46,48,51	176661	33	148130	144498	59980	36	51	2.86	41.51	173.48	307.84	10	476267	34.5	2	2	4
5176	2,5,19,21,27,26,31,34,36,39,41,43,47,46,48,52,53,54	173787	33	136550	141624	67215	34	50	2.98	41.91	173.48	299.15	9	445268	34.5	2	2	4
5177	2,5,19,21,27,26,31,34,36,39,41,43,47,49,53,54	165611	34	108350	133448	78680	34	46	3.35	42.32	176.05	269.05	9	421523	34.5	2	2	4
5178	2,5,19,21,27,26,31,34,36,39,41,43,50,54	164732	32	107718	132569	77800	34	47	2.98	44.23	177.13	262.46	8	418749	34.5	2	2	4
5179	2,5,19,21,27,26,31,34,36,39,44,55	156508	27	119085	131142	76373	33	42	2.86	43.39	176.52	258.31	8	414724	34.5	2	2	4
5180	2,5,19,21,27,26,31,34,36,39,45,55	171492	31	146405	138716	69757	38	47	3.26	47.74	196.58	277.57	8	470726	34.5	2	2	4
5181	2,5,19,21,27,26,31,34,38,40,42,46,48,51	165246	29	111376	141779	77365	37	48	3.01	42.67	124.12	335.71	10	409851	34.5	2	2	9
5182	2,5,19,21,27,26,31,34,38,40,42,46,48,52,53,54	162372	29	99795	138905	84599	35	47	3.14	43.07	124.12	327.02	9	378852	34.5	2	2	9
5183	2,5,19,21,27,26,31,34,38,40,42,47,50,54	154580	30	72228	131114	96448	37	44	3.14	45.39	129.85	291.94	8	357386	34.5	2	2	9
5184	2,5,19,21,27,26,31,34,38,40,42,49,53,54	154197	29	71596	130730	96064	35	43	3.50	43.48	126.69	296.92	9	355107	34.5	2	2	9
5185	2,5,19,21,27,26,31,34,38,41,44,55	158703	26	95982	129015	94349	34	43	3.01	44.55	127.97	304.86	8	388642	34.5	2	2	9
5186	2,5,19,21,27,26,31,34,38,41,45,55	173687	30	123301	136588	87733	39	48	3.42	48.90	148.03	324.11	8	444644	34.5	2	2	9
5187	2,5,19,21,27,26,31,34,38,43,47,46,48,51	165262	28	111432	142371	77957	37	48	3.01	42.67	124.93	335.85	10	410107	34.5	2	2	9
5188	2,5,19,21,27,26,31,34,38,43,47,46,48,52,53,54	162388	28	99852	139496	85191	35	47	3.14	43.07	124.93	327.16	9	379108	34.5	2	2	9
5189	2,5,19,21,27,26,31,34,38,43,47,49,53,54	154213	29	71652	131321	96656	35	43	3.50	43.48	127.50	297.06	9	355363	34.5	2	2	9
5190	2,5,19,21,27,26,31,34,38,43,50,54	153333	27	71021	130442	95777	35	44	3.14	45.39	128.58	290.47	8	352589	34.5	2	2	9
5191	2,5,19,21,27,26,33,37,40,41,44,55	158930	24	96143	129079	79874	35	44	2.75	42.50	128.11	305.52	8	391314	34.5	2	2	4
5192	2,5,19,21,27,26,33,37,40,41,45,55	173914	28	123463	136653	73258	40	49	3.16	46.84	148.16	324.77	8	447316	34.5	2	2	4
5193	2,5,19,21,27,26,33,37,40,43,47,46,48,51	165489	28	111594	142436	63481	38	49	2.75	40.61	125.06	336.36	10	412779	34.5	2	2	4
5194	2,5,19,21,27,26,33,37,40,43,47,46,48,52,53,54	162615	28	100014	139561	70716	36	48	2.88	41.01	125.06	327.67	9	381780	34.5	2	2	4
5195	2,5,19,21,27,26,33,37,40,43,47,49,53,54	154439	29	71814	131386	82181	36	44	3.25	41.42	127.64	297.57	9	358034	34.5	2	2	4
5196	2,5,19,21,27,26,33,37,40,43,50,54	153560	27	71183	130507	81301	36	45	2.88	43.33	128.72	290.98	8	355260	34.5	2	2	4
5197	2,5,19,21,27,26,33,37,42,46,48,51	164322	25	110387	141844	62890	36	49	2.75	40.61	124.25	335.36	10	408062	34.5	2	2	4
5198	2,5,19,21,27,26,33,37,42,46,48,52,53,54	161448	25	98807	138970	70124	34	48	2.88	41.01	124.25	326.67	9	377063	34.5	2	2	4
5199	2,5,19,21,27,26,33,37,42,47,50,54	153657	26	71239	131179	81973	36	45	2.88	43.33	129.98	291.59	8	355597	34.5	2	2	4
5200	2,5,19,21,27,26,33,37,42,49,53,54	153273	25	70607	130795	81589	34	44	3.25	41.42	126.82	296.57	9	353318	34.5	2	2	4
5201	2,5,19,21,28,31,30,32,46,47,50,54	174931	31	123935	129309	83881	40	54	2.46	47.60	149.03	321.85	8	484597	45.5	2	1	8
5202	2,5,19,21,28,31,30,32,46,49,53,54	174547	30	123303	128925	83497	38	53	2.83	45.69	145.87	326.25	9	482318	45.5	2	1	8

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
5203	2,5,19,21,28,31,30,32,48,51	170140	28	147626	124517	57194	40	56	2.34	44.88	143.30	312.40	8	514801	45.5	2	1	8
5204	2,5,19,21,28,31,30,32,48,52,53,54	167265	28	136046	121643	64428	38	55	2.46	45.28	143.30	303.71	7	483802	45.5	2	1	8
5205	2,5,19,21,28,31,33,37,40,41,44,55	158287	24	93870	129280	82640	35	44	2.75	41.33	134.16	298.48	8	385337	34.5	2	1	4
5206	2,5,19,21,28,31,33,37,40,41,45,55	173271	28	121190	136853	76024	40	49	3.16	45.68	154.21	317.74	8	441339	34.5	2	1	4
5207	2,5,19,21,28,31,33,37,40,43,47,46,48,51	164846	28	109321	142636	66248	38	49	2.75	39.45	131.11	329.32	10	406802	34.5	2	1	4
5208	2,5,19,21,28,31,33,37,40,43,47,46,48,52,53,54	161972	28	97741	139761	73482	36	48	2.88	39.85	131.11	320.63	9	375803	34.5	2	1	4
5209	2,5,19,21,28,31,33,37,40,43,47,49,53,54	153797	29	69541	131586	84947	36	44	3.25	40.26	133.69	290.53	9	352058	34.5	2	1	4
5210	2,5,19,21,28,31,33,37,40,43,50,54	152918	27	68910	130707	84068	36	45	2.88	42.17	134.77	283.94	8	349284	34.5	2	1	4
5211	2,5,19,21,28,31,33,37,42,46,48,51	163680	25	108114	142044	65656	36	49	2.75	39.45	130.30	328.32	10	402086	34.5	2	1	4
5212	2,5,19,21,28,31,33,37,42,46,48,52,53,54	160806	25	96534	139170	72890	34	48	2.88	39.85	130.30	319.63	9	371087	34.5	2	1	4
5213	2,5,19,21,28,31,33,37,42,47,50,54	153014	26	68966	131379	84739	36	45	2.88	42.17	136.03	284.55	8	349620	34.5	2	1	4
5214	2,5,19,21,28,31,33,37,42,49,53,54	152630	25	68334	130995	84355	34	44	3.25	40.26	132.87	289.53	9	347341	34.5	2	1	4
5215	2,5,19,21,28,34,35,37,40,41,44,55	158037	24	94070	129442	87457	35	43	2.75	42.33	133.11	297.79	8	382490	34.5	2	1	4
5216	2,5,19,21,28,34,35,37,40,41,45,55	173021	28	121390	137016	80841	40	48	3.16	46.67	153.17	317.05	8	438492	34.5	2	1	4
5217	2,5,19,21,28,34,35,37,40,43,47,46,48,51	164596	28	109521	142798	71064	38	48	2.75	40.44	130.07	328.63	10	403955	34.5	2	1	4
5218	2,5,19,21,28,34,35,37,40,43,47,46,48,52,53,54	161721	28	97940	139924	78298	36	47	2.88	40.84	130.07	319.94	9	372956	34.5	2	1	4
5219	2,5,19,21,28,34,35,37,40,43,47,49,53,54	153546	29	69741	131749	89763	36	43	3.25	41.25	132.64	289.84	9	349211	34.5	2	1	4
5220	2,5,19,21,28,34,35,37,40,43,50,54	152667	27	69109	130870	88884	36	44	2.88	43.16	133.72	283.25	8	346437	34.5	2	1	4
5221	2,5,19,21,28,34,35,37,42,46,48,51	163429	25	108314	142207	70473	36	48	2.75	40.44	129.26	327.63	10	399239	34.5	2	1	4
5222	2,5,19,21,28,34,35,37,42,46,48,52,53,54	160555	25	96734	139333	77707	34	47	2.88	40.84	129.26	318.94	9	368240	34.5	2	1	4
5223	2,5,19,21,28,34,35,37,42,47,50,54	152764	26	69166	131541	89556	36	44	2.88	43.16	134.99	283.86	8	346773	34.5	2	1	4
5224	2,5,19,21,28,34,35,37,42,49,53,54	152380	25	68534	131157	89172	34	43	3.25	41.25	131.83	288.84	9	344495	34.5	2	1	4
5225	2,5,19,21,28,34,36,39,41,40,42,46,48,51	175176	28	144974	144107	62155	36	51	2.86	40.34	178.10	298.54	10	465902	34.5	2	1	4
5226	2,5,19,21,28,34,36,39,41,40,42,46,48,52,53,54	172301	28	133394	141233	69389	34	50	2.98	40.75	178.10	289.85	9	434903	34.5	2	1	4
5227	2,5,19,21,28,34,36,39,41,40,42,47,50,54	164510	29	105826	133441	81238	36	47	2.98	43.06	183.83	254.77	8	413436	34.5	2	1	4
5228	2,5,19,21,28,34,36,39,41,40,42,49,53,54	164126	28	105194	133057	80854	34	46	3.35	41.15	180.67	259.75	9	411157	34.5	2	1	4
5229	2,5,19,21,28,34,36,39,41,43,47,46,48,51	175192	29	145030	144698	62747	36	51	2.86	40.34	178.91	298.68	10	466158	34.5	2	1	4
5230	2,5,19,21,28,34,36,39,41,43,47,46,48,52,53,54	172318	29	133450	141824	69981	34	50	2.98	40.75	178.91	289.99	9	435159	34.5	2	1	4
5231	2,5,19,21,28,34,36,39,41,43,47,49,53,54	164142	30	105250	133649	81446	34	46	3.35	41.15	181.48	259.89	9	411413	34.5	2	1	4
5232	2,5,19,21,28,34,36,39,41,43,50,54	163263	28	104619	132769	80567	34	47	2.98	43.06	182.56	253.30	8	408639	34.5	2	1	4
5233	2,5,19,21,28,34,36,39,44,55	155039	23	115986	131342	79139	33	42	2.86	42.23	181.95	249.15	8	404614	34.5	2	1	4
5234	2,5,19,21,28,34,36,39,45,55	170023	27	143305	138916	72523	38	47	3.26	46.57	202.01	268.41	8	460617	34.5	2	1	4
5235	2,5,19,21,28,34,38,40,42,46,48,51	163777	25	108276	141980	80131	37	48	3.01	41.50	129.55	326.55	10	399742	34.5	2	1	9
5236	2,5,19,21,28,34,38,40,42,46,48,52,53,54	160903	25	96696	139105	87366	35	47	3.14	41.91	129.55	317.86	9	368743	34.5	2	1	9
5237	2,5,19,21,28,34,38,40,42,47,50,54	153111	26	69128	131314	99215	37	44	3.14	44.22	135.28	282.78	8	347276	34.5	2	1	9
5238	2,5,19,21,28,34,38,40,42,49,53,54	152727	25	68496	130930	98831	35	43	3.50	42.32	132.12	287.76	9	344998	34.5	2	1	9
5239	2,5,19,21,28,34,38,41,44,55	157234	22	92882	129215	97116	34	43	3.01	43.39	133.41	295.70	8	378533	34.5	2	1	9
5240	2,5,19,21,28,34,38,41,45,55	172218	26	120201	136789	90499	39	48	3.42	47.74	153.46	314.95	8	434535	34.5	2	1	9
5241	2,5,19,21,28,34,38,43,47,46,48,51	163793	24	108332	142571	80723	37	48	3.01	41.50	130.36	326.70	10	399998	34.5	2	1	9
5242	2,5,19,21,28,34,38,43,47,46,48,52,53,54	160919	24	96752	139697	87957	35	47	3.14	41.91	130.36	318.01	9	368999	34.5	2	1	9
5243	2,5,19,21,28,34,38,43,47,49,53,54	152744	25	68553	131521	99422	35	43	3.50	42.32	132.93	287.91	9	345253	34.5	2	1	9
5244	2,5,19,21,28,34,38,43,50,54	151864	23	67921	130642	98543	35	44	3.14	44.22	134.01	281.31	8	342479	34.5	2	1	9
5245	2,5,22,24,29,36,35,37,40,41,44,55	163626	25	124928	127440	72236	33	42	2.50	43.37	144.16	296.65	8	446349	58.5	2	1	4
5246	2,5,22,24,29,36,35,37,40,41,45,55	178610	29	152248	135014	65620	38	47	2.91	47.72	164.22	315.91	8	502351	58.5	2	1	4
5247	2,5,22,24,29,36,35,37,40,43,47,46,48,51	170185	29	140378	140796	55844	36	47	2.50	41.49	141.12	327.49	10	467814	58.5	2	1	4
5248	2,5,22,24,29,36,35,37,40,43,47,46,48,52,53,54	167310	29	128798	137922	63078	34	46	2.63	41.89	141.12	318.80	9	436815	58.5	2	1	4
5249	2,5,22,24,29,36,35,37,40,43,47,49,53,54	159135	30	100599	129746	74543	34	42	2.99	42.30	143.69	288.70	9	413069	58.5	2	1	4
5250	2,5,22,24,29,36,35,37,40,43,50,54	158256	28	99967	128867	73664	34	43	2.63	44.21	144.77	282.11	8	410295	58.5	2	1	4
5251	2,5,22,24,29,36,35,37,42,46,48,51	169018	26	139172	140205	55252	34	47	2.50	41.49	140.31	326.49	10	463097	58.5	2	1	4
5252	2,5,22,24,29,36,35,37,42,46,48,52,53,54	166144	26	127592	137330	62487	32	46	2.63	41.89	140.31	317.80	9	432098	58.5	2	1	4
5253	2,5,22,24,29,36,35,37,42,47,50,54	158353	27	100024	129539	74336	34	43	2.63	44.21	146.04	282.72	8	410632	58.5	2	1	4

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
5254	2,5,22,24,29,36,35,37,42,49,53,54	157969	26	99392	129155	73952	32	42	2.99	42.30	142.88	287.70	9	408353	58.5	2	1	4
5255	2,5,22,24,29,36,38,40,42,46,48,51	169366	27	139134	139977	64911	35	47	2.76	42.55	140.60	325.38	10	463600	58.5	2	1	9
5256	2,5,22,24,29,36,38,40,42,46,48,52,53,54	166492	27	127554	137103	72145	33	46	2.89	42.95	140.60	316.69	9	432601	58.5	2	1	9
5257	2,5,22,24,29,36,38,40,42,47,50,54	158700	28	99986	129312	83994	35	43	2.89	45.27	146.33	281.61	8	411135	58.5	2	1	9
5258	2,5,22,24,29,36,38,40,42,49,53,54	158316	27	99354	128928	83610	33	42	3.25	43.36	143.17	286.59	9	408856	58.5	2	1	9
5259	2,5,22,24,29,36,38,41,44,55	162823	24	123740	127213	81895	32	42	2.76	44.43	144.46	294.53	8	442391	58.5	2	1	9
5260	2,5,22,24,29,36,38,41,45,55	177807	28	151059	134786	75278	37	47	3.17	48.78	164.51	313.79	8	498393	58.5	2	1	9
5261	2,5,22,24,29,36,38,43,47,46,48,51	169382	26	139190	140569	65502	35	47	2.76	42.55	141.41	325.53	10	463856	58.5	2	1	9
5262	2,5,22,24,29,36,38,43,47,46,48,52,53,54	166508	26	127610	137694	72736	33	46	2.89	42.95	141.41	316.84	9	432857	58.5	2	1	9
5263	2,5,22,24,29,36,38,43,47,49,53,54	158333	27	99411	129519	84201	33	42	3.25	43.36	143.98	286.74	9	409112	58.5	2	1	9
5264	2,5,22,24,29,36,38,43,50,54	157453	25	98779	128640	83322	33	43	2.89	45.27	145.07	280.14	8	406338	58.5	2	1	9
5265	2,5,22,24,29,39,41,40,42,46,48,51	171137	26	166204	137426	46935	32	50	2.60	41.39	173.30	290.80	10	494205	58.5	2	1	4
5266	2,5,22,24,29,39,41,40,42,46,48,52,53,54	168262	26	154623	134551	54169	30	49	2.73	41.79	173.30	282.11	9	463206	58.5	2	1	4
5267	2,5,22,24,29,39,41,40,42,47,50,54	160471	27	127055	126760	66018	32	46	2.73	44.11	179.03	247.03	8	441739	58.5	2	1	4
5268	2,5,22,24,29,39,41,40,42,49,53,54	160087	26	126424	126376	65634	30	45	3.09	42.20	175.87	252.01	9	439460	58.5	2	1	4
5269	2,5,22,24,29,39,41,43,47,46,48,51	171153	27	166260	138017	47526	32	50	2.60	41.39	174.11	290.94	10	494461	58.5	2	1	4
5270	2,5,22,24,29,39,41,43,47,46,48,52,53,54	168279	27	154680	135143	54760	30	49	2.73	41.79	174.11	282.25	9	463462	58.5	2	1	4
5271	2,5,22,24,29,39,41,43,47,49,53,54	160103	28	126480	126967	66225	30	45	3.09	42.20	176.68	252.15	9	439716	58.5	2	1	4
5272	2,5,22,24,29,39,41,43,50,54	159224	26	125849	126088	65346	30	46	2.73	44.11	177.77	245.56	8	436942	58.5	2	1	4
5273	2,5,22,24,29,39,44,55	151000	21	137216	124661	63919	29	41	2.60	43.27	177.16	241.41	8	432917	58.5	2	1	4
5274	2,5,22,24,29,39,45,55	165984	25	164535	132235	57302	34	46	3.01	47.62	197.21	260.67	8	488920	58.5	2	1	4
5275	2,5,22,25,29,36,35,37,40,41,44,55	161733	24	123036	124220	76716	33	43	2.52	41.93	145.89	286.69	8	442621	59	2	1	4
5276	2,5,22,25,29,36,35,37,40,41,45,55	176717	28	150355	131793	70100	38	48	2.92	46.28	165.94	305.94	8	498623	59	2	1	4
5277	2,5,22,25,29,36,35,37,40,43,47,46,48,51	168292	28	138486	137576	60323	36	48	2.52	40.04	142.84	317.53	10	464086	59	2	1	4
5278	2,5,22,25,29,36,35,37,40,43,47,46,48,52,53,54	165418	28	126906	134701	67558	34	47	2.64	40.45	142.84	308.84	9	433087	59	2	1	4
5279	2,5,22,25,29,36,35,37,40,43,47,49,53,54	157243	29	98706	126526	79023	34	43	3.01	40.86	145.42	278.74	9	409342	59	2	1	4
5280	2,5,22,25,29,36,35,37,40,43,50,54	156364	27	98075	125647	78143	34	44	2.64	42.76	146.50	272.14	8	406568	59	2	1	4
5281	2,5,22,25,29,36,35,37,42,46,48,51	167126	25	137279	136984	59732	34	48	2.52	40.04	142.03	316.53	10	459370	59	2	1	4
5282	2,5,22,25,29,36,35,37,42,46,48,52,53,54	164252	25	125699	134110	66966	32	47	2.64	40.45	142.03	307.84	9	428371	59	2	1	4
5283	2,5,22,25,29,36,35,37,42,47,50,54	156460	26	98131	126319	78815	34	44	2.64	42.76	147.76	272.76	8	406904	59	2	1	4
5284	2,5,22,25,29,36,35,37,42,49,53,54	156076	25	97500	125935	78431	32	43	3.01	40.86	144.60	277.74	9	404625	59	2	1	4
5285	2,5,22,25,29,36,38,40,42,46,48,51	167474	26	137242	136757	69391	35	48	2.78	41.11	142.32	315.42	10	459873	59	2	1	9
5286	2,5,22,25,29,36,38,40,42,46,48,52,53,54	164599	26	125661	133882	76625	33	47	2.90	41.51	142.32	306.73	9	428874	59	2	1	9
5287	2,5,22,25,29,36,38,40,42,47,50,54	156808	27	98094	126091	88474	35	44	2.90	43.83	148.06	271.65	8	407407	59	2	1	9
5288	2,5,22,25,29,36,38,40,42,49,53,54	156424	26	97462	125707	88090	33	43	3.27	41.92	144.90	276.63	9	405128	59	2	1	9
5289	2,5,22,25,29,36,38,41,44,55	160931	23	121848	123992	86375	32	43	2.78	42.99	146.18	284.57	8	438663	59	2	1	9
5290	2,5,22,25,29,36,38,41,45,55	175915	27	149167	131566	79758	37	48	3.18	47.34	166.23	303.82	8	494666	59	2	1	9
5291	2,5,22,25,29,36,38,43,47,46,48,51	167490	25	137298	137348	69982	35	48	2.78	41.11	143.14	315.57	10	460128	59	2	1	9
5292	2,5,22,25,29,36,38,43,47,46,48,52,53,54	164615	25	125718	134474	77216	33	47	2.90	41.51	143.14	306.87	9	429129	59	2	1	9
5293	2,5,22,25,29,36,38,43,47,49,53,54	156440	26	97518	126299	88681	33	43	3.27	41.92	145.71	276.77	9	405384	59	2	1	9
5294	2,5,22,25,29,36,38,43,50,54	155561	24	96887	125419	87802	33	44	2.90	43.83	146.79	270.18	8	402610	59	2	1	9
5295	2,5,22,25,29,39,41,40,42,46,48,51	169244	25	164311	134205	51414	32	51	2.62	39.95	175.02	280.83	10	490477	59	2	1	4
5296	2,5,22,25,29,39,41,40,42,46,48,52,53,54	166370	25	152731	131331	58649	30	50	2.74	40.35	175.02	272.14	9	459478	59	2	1	4
5297	2,5,22,25,29,39,41,40,42,47,50,54	158579	26	125163	123540	70498	32	47	2.74	42.67	180.76	237.06	8	438011	59	2	1	4
5298	2,5,22,25,29,39,41,40,42,49,53,54	158195	25	124532	123156	70114	30	46	3.11	40.76	177.60	242.04	9	435733	59	2	1	4
5299	2,5,22,25,29,39,41,43,47,46,48,51	169261	26	164368	134797	52006	32	51	2.62	39.95	175.84	280.98	10	490733	59	2	1	4
5300	2,5,22,25,29,39,41,43,47,46,48,52,53,54	166386	26	152787	131922	59240	30	50	2.74	40.35	175.84	272.29	9	459734	59	2	1	4
5301	2,5,22,25,29,39,41,43,47,49,53,54	158211	27	124588	123747	70705	30	46	3.11	40.76	178.41	242.19	9	435988	59	2	1	4
5302	2,5,22,25,29,39,41,43,50,54	157332	25	123956	122868	69826	30	47	2.74	42.67	179.49	235.59	8	433214	59	2	1	4
5303	2,5,22,25,29,39,44,55	149108	20	135323	121441	68399	29	42	2.62	41.83	178.88	231.45	8	429189	59	2	1	4
5304	2,5,22,25,29,39,45,55	164091	24	162643	129014	61782	34	47	3.03	46.18	198.93	250.70	8	485192	59	2	1	4

Table F-1: Route Data for All Routes

Route	Segments	Total length (feet)	Heavy angles > 30 degrees	Length not along Transmission Line (feet)	Length not along Roads (feet)	Length not along Property Lines (feet)	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft
	Max	183523	36	171173	168632	134826	40	63	4.90	48.90	202.01	400.62	10	526918	62	4	2	9
	Average	158886	24.45	64816	144398	104024	31.71	48.66	3.13	37.99	108.90	343.28	5.94	313167	26.54	2.24	0.40	2.70
	Min	143541	12	10497	121441	46935	27	40	1.41	24.93	74.50	231.45	4	206820	7	0	0	1
	St. Dev	8811	3.85	32515	7434	13464	2.33	4.19	0.70	3.28	24.75	27.26	1.05	63931	15.18	1.44	0.52	2.35

Westar Energy- JEC to East Manhattan
345/230 kV Transmission Line Project
Table F-2: Raw Scores for All Routes

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
1	1,3,7,11,13,12,14,30,31,34,35,37,40,41,44,55	0.63	-2.19	0.55	1.03	1.34	0.55	0.56	1.22	-0.57	0.41	0.54	-0.90	0.30	-0.73	0.53	-0.77	-0.72	**1.79**
2	1,3,7,11,13,12,14,30,31,34,35,37,40,41,45,55	2.33	-1.15	1.39	2.05	0.85	2.70	1.75	1.80	0.76	1.22	1.25	-0.90	1.17	-0.73	0.53	-0.77	-0.72	**13.52**
3	1,3,7,11,13,12,14,30,31,34,35,37,40,43,47,46,48,51	1.37	-1.15	1.03	2.83	0.12	1.84	1.75	1.22	-1.14	0.29	1.67	1.01	0.63	-0.73	0.53	-0.77	-0.72	**9.78**
4	1,3,7,11,13,12,14,30,31,34,35,37,40,43,47,46,48,52,53,54	1.04	-1.15	0.67	2.44	0.66	0.98	1.52	1.40	-1.02	0.29	1.35	0.05	0.15	-0.73	0.53	-0.77	-0.72	**6.70**
5	1,3,7,11,13,12,14,30,31,34,35,37,40,43,47,49,53,54	0.12	-0.90	-0.20	1.34	1.51	0.98	0.56	1.92	-0.89	0.39	0.25	0.05	-0.22	-0.73	0.53	-0.77	-0.72	**3.23**
6	1,3,7,11,13,12,14,30,31,34,35,37,40,43,50,54	0.02	-1.41	-0.21	1.23	1.45	0.98	0.80	1.40	-0.31	0.44	0.01	-0.90	-0.27	-0.73	0.53	-0.77	-0.72	**1.51**
7	1,3,7,11,13,12,14,30,31,34,35,37,42,46,48,51	1.24	-1.93	0.99	2.75	0.08	0.98	1.75	1.22	-1.14	0.25	1.63	1.01	0.56	-0.73	0.53	-0.77	-0.72	**7.71**
8	1,3,7,11,13,12,14,30,31,34,35,37,42,46,48,52,53,54	0.91	-1.93	0.63	2.36	0.62	0.13	1.52	1.40	-1.02	0.25	1.32	0.05	0.08	-0.73	0.53	-0.77	-0.72	**4.63**
9	1,3,7,11,13,12,14,30,31,34,35,37,42,47,50,54	0.03	-1.67	-0.21	1.32	1.50	0.98	0.80	1.40	-0.31	0.49	0.03	-0.90	-0.26	-0.73	0.53	-0.77	-0.72	**1.49**
10	1,3,7,11,13,12,14,30,31,34,35,37,42,49,53,54	-0.02	-1.93	-0.23	1.26	1.47	0.13	0.56	1.92	-0.89	0.36	0.21	0.05	-0.30	-0.73	0.53	-0.77	-0.72	**0.90**
11	1,3,7,11,13,12,14,30,31,34,36,39,41,40,42,46,48,51	2.57	-1.15	2.12	3.01	-0.54	0.98	2.47	1.37	-1.17	2.23	0.57	1.01	1.60	-0.73	0.53	-0.77	-0.72	**13.37**
12	1,3,7,11,13,12,14,30,31,34,36,39,41,40,42,46,48,52,53,54	2.25	-1.15	1.76	2.62	0.00	0.13	2.23	1.54	-1.05	2.23	0.25	0.05	1.12	-0.73	0.53	-0.77	-0.72	**10.28**
13	1,3,7,11,13,12,14,30,31,34,36,39,41,40,42,47,50,54	1.36	-0.90	0.91	1.57	0.88	0.98	1.52	1.54	-0.34	2.46	-1.04	-0.90	0.78	-0.73	0.53	-0.77	-0.72	**7.14**
14	1,3,7,11,13,12,14,30,31,34,36,39,41,40,42,49,53,54	1.32	-1.15	0.90	1.52	0.85	0.13	1.28	2.07	-0.92	2.33	-0.86	0.05	0.75	-0.73	0.53	-0.77	-0.72	**6.56**
15	1,3,7,11,13,12,14,30,31,34,36,39,41,43,47,46,48,51	2.57	-0.90	2.12	3.09	-0.49	0.98	2.47	1.37	-1.17	2.26	0.57	1.01	1.61	-0.73	0.53	-0.77	-0.72	**13.80**
16	1,3,7,11,13,12,14,30,31,34,36,39,41,43,47,46,48,52,53,54	2.25	-0.90	1.76	2.70	0.04	0.13	2.23	1.54	-1.05	2.26	0.25	0.05	1.12	-0.73	0.53	-0.77	-0.72	**10.71**
17	1,3,7,11,13,12,14,30,31,34,36,39,41,43,47,49,53,54	1.32	-0.64	0.90	1.60	0.89	0.13	1.28	2.07	-0.92	2.37	-0.85	0.05	0.75	-0.73	0.53	-0.77	-0.72	**7.25**
18	1,3,7,11,13,12,14,30,31,34,36,39,41,43,50,54	1.22	-1.15	0.88	1.48	0.83	0.13	1.52	1.54	-0.34	2.41	-1.09	-0.90	0.71	-0.73	0.53	-0.77	-0.72	**5.53**
19	1,3,7,11,13,12,14,30,31,34,36,39,44,55	0.29	-2.45	1.23	1.29	0.72	-0.30	0.32	1.37	-0.60	2.38	-1.24	-0.90	0.64	-0.73	0.53	-0.77	-0.72	**1.05**
20	1,3,7,11,13,12,14,30,31,34,36,39,45,55	1.99	-1.41	2.07	2.31	0.23	1.84	1.52	1.94	0.73	3.19	-0.54	-0.90	1.52	-0.73	0.53	-0.77	-0.72	**12.79**
21	1,3,7,11,13,12,14,30,31,34,38,40,42,46,48,51	1.28	-1.93	0.99	2.72	0.80	1.41	1.75	1.59	-0.82	0.27	1.59	1.01	0.57	-0.73	0.53	-0.77	1.40	**11.67**
22	1,3,7,11,13,12,14,30,31,34,38,40,42,46,48,52,53,54	0.95	-1.93	0.63	2.33	1.33	0.55	1.52	1.77	-0.69	0.27	1.28	0.05	0.08	-0.73	0.53	-0.77	1.40	**8.58**
23	1,3,7,11,13,12,14,30,31,34,38,40,42,47,50,54	0.07	-1.67	-0.21	1.29	2.21	1.41	0.80	1.77	0.01	0.50	-0.01	-0.90	-0.25	-0.73	0.53	-0.77	1.40	**5.44**
24	1,3,7,11,13,12,14,30,31,34,38,40,42,49,53,54	0.02	-1.93	-0.23	1.23	2.19	0.55	0.56	2.29	-0.57	0.37	0.17	0.05	-0.29	-0.73	0.53	-0.77	1.40	**4.85**
25	1,3,7,11,13,12,14,30,31,34,38,41,44,55	0.54	-2.71	0.52	1.00	2.06	0.13	0.56	1.59	-0.24	0.42	0.46	-0.90	0.24	-0.73	0.53	-0.77	1.40	**4.09**
26	1,3,7,11,13,12,14,30,31,34,38,41,45,55	2.24	-1.67	1.36	2.02	1.57	2.27	1.75	2.17	1.08	1.23	1.17	-0.90	1.11	-0.73	0.53	-0.77	1.40	**15.83**
27	1,3,7,11,13,12,14,30,31,34,38,43,47,46,48,51	1.28	-2.19	0.99	2.80	0.84	1.41	1.75	1.59	-0.82	0.30	1.60	1.01	0.57	-0.73	0.53	-0.77	1.40	**11.58**
28	1,3,7,11,13,12,14,30,31,34,38,43,47,46,48,52,53,54	0.95	-2.19	0.64	2.41	1.38	0.55	1.52	1.77	-0.69	0.30	1.28	0.05	0.09	-0.73	0.53	-0.77	1.40	**8.49**
29	1,3,7,11,13,12,14,30,31,34,38,43,47,49,53,54	0.03	-1.93	-0.23	1.31	2.23	0.55	0.56	2.29	-0.57	0.40	0.18	0.05	-0.28	-0.73	0.53	-0.77	1.40	**5.02**
30	1,3,7,11,13,12,14,30,31,34,38,43,50,54	-0.07	-2.45	-0.25	1.20	2.16	0.55	0.80	1.77	0.01	0.45	-0.07	-0.90	-0.33	-0.73	0.53	-0.77	1.40	**3.31**
31	1,3,7,11,13,12,14,30,33,37,40,41,44,55	0.56	-2.71	0.52	1.01	0.98	0.55	0.80	1.22	-0.87	0.43	0.48	-0.90	0.28	-0.73	0.53	-0.77	-0.72	**0.67**
32	1,3,7,11,13,12,14,30,33,37,40,41,45,55	2.26	-1.67	1.36	2.03	0.49	2.70	1.99	1.80	0.46	1.24	1.19	-0.90	1.15	-0.73	0.53	-0.77	-0.72	**12.41**
33	1,3,7,11,13,12,14,30,33,37,40,43,47,46,48,51	1.31	-1.67	1.00	2.81	-0.23	1.84	1.99	1.22	-1.44	0.30	1.62	1.01	0.61	-0.73	0.53	-0.77	-0.72	**8.67**
34	1,3,7,11,13,12,14,30,33,37,40,43,47,46,48,52,53,54	0.98	-1.67	0.64	2.42	0.30	0.98	1.75	1.40	-1.32	0.30	1.30	0.05	0.13	-0.73	0.53	-0.77	-0.72	**5.58**
35	1,3,7,11,13,12,14,30,33,37,40,43,47,49,53,54	0.05	-1.41	-0.23	1.32	1.15	0.98	0.80	1.92	-1.19	0.41	0.19	0.05	-0.24	-0.73	0.53	-0.77	-0.72	**2.12**
36	1,3,7,11,13,12,14,30,33,37,40,43,50,54	-0.05	-1.93	-0.25	1.20	1.09	0.98	1.04	1.40	-0.61	0.45	-0.05	-0.90	-0.29	-0.73	0.53	-0.77	-0.72	**0.40**
37	1,3,7,11,13,12,14,30,33,37,42,46,48,51	1.17	-2.45	0.96	2.73	-0.28	0.98	1.99	1.22	-1.44	0.27	1.58	1.01	0.54	-0.73	0.53	-0.77	-0.72	**6.60**
38	1,3,7,11,13,12,14,30,33,37,42,46,48,52,53,54	0.85	-2.45	0.60	2.34	0.26	0.13	1.75	1.40	-1.32	0.27	1.26	0.05	0.06	-0.73	0.53	-0.77	-0.72	**3.51**
39	1,3,7,11,13,12,14,30,33,37,42,47,50,54	-0.04	-2.19	-0.24	1.29	1.14	0.98	1.04	1.40	-0.61	0.50	-0.03	-0.90	-0.28	-0.73	0.53	-0.77	-0.72	**0.37**
40	1,3,7,11,13,12,14,30,33,37,42,49,53,54	-0.08	-2.45	-0.26	1.24	1.11	0.13	0.80	1.92	-1.19	0.38	0.16	0.05	-0.32	-0.73	0.53	-0.77	-0.72	**-0.22**
41	1,3,7,11,13,12,14,32,46,47,50,54	1.58	-1.41	1.21	1.02	1.08	1.84	2.71	0.81	1.04	1.03	0.43	-0.90	1.24	-0.20	0.53	-0.77	0.98	**12.19**
42	1,3,7,11,13,12,14,32,46,49,53,54	1.54	-1.67	1.19	0.96	1.05	0.98	2.47	1.33	0.46	0.90	0.59	0.05	1.20	-0.20	0.53	-0.77	0.98	**11.58**
43	1,3,7,11,13,12,14,32,48,51	1.04	-2.19	1.94	0.37	-0.91	1.84	3.19	0.63	0.21	0.80	0.08	-0.90	1.71	-0.20	0.53	-0.77	0.98	**8.34**
44	1,3,7,11,13,12,14,32,48,52,53,54	0.71	-2.19	1.58	-0.02	-0.37	0.98	2.95	0.81	0.33	0.80	-0.24	-1.85	1.22	-0.20	0.53	-0.77	0.98	**5.25**
45	1,3,7,11,13,15,23,26,30,32,46,47,50,54	0.96	0.92	0.39	-1.10	0.25	1.41	1.28	1.03	2.13	-0.17	0.67	-0.90	0.98	-0.43	0.53	1.14	0.98	**10.07**
46	1,3,7,11,13,15,23,26,30,32,46,49,53,54	0.92	0.66	0.37	-1.15	0.22	0.55	1.04	1.55	1.55	-0.30	0.83	0.05	0.95	-0.43	0.53	1.14	0.98	**9.47**
47	1,3,7,11,13,15,23,26,30,32,48,51	0.42	0.14	1.12	-1.74	-1.73	1.41	1.75	0.85	1.30	-0.40	0.32	-0.90	1.46	-0.43	0.53	1.14	0.98	**6.22**
48	1,3,7,11,13,15,23,26,30,32,48,52,53,54	0.09	0.14	0.76	-2.13	-1.20	0.55	1.52	1.03	1.42	-0.40	0.01	-1.85	0.97	-0.43	0.53	1.14	0.98	**3.13**
49	1,3,7,11,13,15,23,26,31,34,35,37,40,41,44,55	-0.86	-0.38	-0.50	-1.08	0.51	-0.73	-1.35	1.45	0.52	-0.79	-0.13	-0.90	-0.55	-1.16	0.53	1.14	-0.72	**-5.00**
50	1,3,7,11,13,15,23,26,31,34,35,37,40,41,45,55	0.84	0.66	0.34	-0.06	0.02	1.41	-0.16	2.02	1.85	0.02	0.57	-0.90	0.33	-1.16	0.53	1.14	-0.72	**6.74**
51	1,3,7,11,13,15,23,26,31,34,35,37,40,43,47,46,48,51	-0.12	0.66	-0.03	0.72	-0.70	0.55	-0.16	1.45	-0.05	-0.91	1.00	1.01	-0.21	-1.16	0.53	1.14	-0.72	**3.00**
52	1,3,7,11,13,15,23,26,31,34,35,37,40,43,47,46,48,52,53,54	-0.44	0.66	-0.38	0.33	-0.17	-0.30	-0.40	1.62	0.07	-0.91	0.68	0.05	-0.70	-1.16	0.53	1.14	-0.72	**-0.09**
53	1,3,7,11,13,15,23,26,31,34,35,37,40,43,47,49,53,54	-1.37	0.92	-1.25	-0.77	0.68	-0.30	-1.35	2.15	0.20	-0.81	-0.42	0.05	-1.07	-1.16	0.53	1.14	-0.72	**-3.55**
54	1,3,7,11,13,15,23,26,31,34,35,37,40,43,50,54	-1.47	0.40	-1.27	-0.89	0.62	-0.30	-1.11	1.62	0.78	-0.77	-0.67	-0.90	-1.11	-1.16	0.53	1.14	-0.72	**-5.27**
55	1,3,7,11,13,15,23,26,31,34,35,37,42,46,48,51	-0.25	-0.12	-0.07	0.64	-0.75	-0.30	-0.16	1.45	-0.05	-0.95	0.96	1.01	-0.29	-1.16	0.53	1.14	-0.72	**0.93**
56	1,3,7,11,13,15,23,26,31,34,35,37,42,46,48,52,53,54	-0.57	-0.12	-0.42	0.25	-0.21	-1.16	-0.40	1.62	0.07	-0.95	0.64	0.05	-0.77	-1.16	0.53	1.14	-0.72	**-2.16**
57	1,3,7,11,13,15,23,26,31,34,35,37,42,47,50,54	-1.46	0.14	-1.27	-0.80	0.67	-0.30	-1.11	1.62	0.78	-0.71	-0.64	-0.90	-1.11	-1.16	0.53	1.14	-0.72	**-5.30**
58	1,3,7,11,13,15,23,26,31,34,35,37,42,49,53,54	-1.50	-0.12	-1.29	-0.85	0.64	-1.16	-1.35	2.15	0.20	-0.84	-0.46	0.05	-1.14	-1.16	0.53	1.14	-0.72	**-5.88**
59	1,3,7,11,13,15,23,26,31,34,36,39,41,40,42,46,48,51	1.09	0.66	1.06	0.89	-1.37	-0.30	0.56	1.59	-0.08	1.03	-0.10	1.01	0.76	-1.16	0.53	1.14	-0.72	**6.58**
60	1,3,7,11,13,15,23,26,31,34,36,39,41,40,42,46,48,52,53,54	0.76	0.66	0.71	0.51	-0.83	-1.16	0.32	1.77	0.04	1.03	-0.42	0.05	0.27	-1.16	0.53	1.14	-0.72	**3.50**
61	1,3,7,11,13,15,23,26,31,34,36,39,41,40,42,47,50,54	-0.12	0.92	-0.14	-0.54	0.05	-0.30	-0.40	1.77	0.75	1.26	-1.71	-0.90	-0.06	-1.16	0.53	1.14	-0.72	**0.36**
62	1,3,7,11,13,15,23,26,31,34,36,39,41,40,42,49,53,54	-0.17	0.66	-0.16	-0.59	0.02	-1.16	-0.64	2.29	0.17	1.13	-1.53	0.05	-0.10	-1.16	0.53	1.14	-0.72	**-0.23**
63	1,3,7,11,13,15,23,26,31,34,36,39,41,43,47,46,48,51	1.09	0.92	1.06	0.97	-1.32	-0.30	0.56	1.59	-0.08	1.06	-0.10	1.01	0.76	-1.16	0.53	1.14	-0.72	**7.01**

Table F-2: Raw Scores for All Routes

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
64	1,3,7,11,13,15,23,26,31,34,36,39,41,43,47,46,48,52,53,54	0.76	0.92	0.71	0.59	-0.78	-1.16	0.32	1.77	0.04	1.06	-0.42	0.05	0.28	-1.16	0.53	1.14	-0.72	**3.93**
65	1,3,7,11,13,15,23,26,31,34,36,39,41,43,47,49,53,54	-0.17	1.18	-0.16	-0.51	0.07	-1.16	-0.64	2.29	0.17	1.16	-1.52	0.05	-0.10	-1.16	0.53	1.14	-0.72	**0.46**
66	1,3,7,11,13,15,23,26,31,34,36,39,41,43,50,54	-0.27	0.66	-0.18	-0.63	0.00	-1.16	-0.40	1.77	0.75	1.21	-1.76	-0.90	-0.14	-1.16	0.53	1.14	-0.72	**-1.26**
67	1,3,7,11,13,15,23,26,31,34,36,39,44,55	-1.20	-0.64	0.17	-0.82	-0.10	-1.59	-1.59	1.59	0.49	1.18	-1.92	-0.90	-0.20	-1.16	0.53	1.14	-0.72	**-5.73**
68	1,3,7,11,13,15,23,26,31,34,36,39,45,55	0.50	0.40	1.01	0.20	-0.60	0.55	-0.40	2.17	1.82	1.99	-1.21	-0.90	0.67	-1.16	0.53	1.14	-0.72	**6.00**
69	1,3,7,11,13,15,23,26,31,34,38,40,42,46,48,51	-0.21	-0.12	-0.07	0.61	-0.03	0.13	-0.16	1.81	0.27	-0.93	0.92	1.01	-0.28	-1.16	0.53	1.14	1.40	**4.88**
70	1,3,7,11,13,15,23,26,31,34,38,40,42,46,48,52,53,54	-0.53	-0.12	-0.42	0.22	0.51	-0.73	-0.40	1.99	0.39	-0.93	0.60	0.05	-0.76	-1.16	0.53	1.14	1.40	**1.79**
71	1,3,7,11,13,15,23,26,31,34,38,40,42,47,50,54	-1.42	0.14	-1.27	-0.83	1.39	0.13	-1.11	1.99	1.10	-0.70	-0.68	-0.90	-1.10	-1.16	0.53	1.14	1.40	**-1.35**
72	1,3,7,11,13,15,23,26,31,34,38,40,42,49,53,54	-1.46	-0.12	-1.29	-0.88	1.36	-0.73	-1.35	2.51	0.52	-0.83	-0.50	0.05	-1.13	-1.16	0.53	1.14	1.40	**-1.93**
73	1,3,7,11,13,15,23,26,31,34,38,41,44,55	-0.95	-0.90	-0.54	-1.11	1.23	-1.16	-1.35	1.81	0.85	-0.78	-0.21	-0.90	-0.61	-1.16	0.53	1.14	1.40	**-2.69**
74	1,3,7,11,13,15,23,26,31,34,38,41,45,55	0.75	0.14	0.30	-0.09	0.74	0.98	-0.16	2.39	2.17	0.03	0.50	-0.90	0.27	-1.16	0.53	1.14	1.40	**9.04**
75	1,3,7,11,13,15,23,26,31,34,38,43,47,46,48,51	-0.21	-0.38	-0.06	0.69	0.01	0.13	-0.16	1.81	0.27	-0.90	0.93	1.01	-0.27	-1.16	0.53	1.14	1.40	**4.79**
76	1,3,7,11,13,15,23,26,31,34,38,43,47,46,48,52,53,54	-0.53	-0.38	-0.42	0.30	0.55	-0.73	-0.40	1.99	0.39	-0.90	0.61	0.05	-0.76	-1.16	0.53	1.14	1.40	**1.70**
77	1,3,7,11,13,15,23,26,31,34,38,43,47,49,53,54	-1.46	-0.12	-1.29	-0.80	1.40	-0.73	-1.35	2.51	0.52	-0.80	-0.50	0.05	-1.13	-1.16	0.53	1.14	1.40	**-1.76**
78	1,3,7,11,13,15,23,26,31,34,38,43,50,54	-1.56	-0.64	-1.31	-0.92	1.34	-0.73	-1.11	1.99	1.10	-0.75	-0.74	-0.90	-1.17	-1.16	0.53	1.14	1.40	**-3.48**
79	1,3,7,11,13,15,23,26,33,37,40,41,44,55	-0.93	-1.41	-0.53	-1.10	0.16	-0.73	-1.11	1.45	0.22	-0.77	-0.18	-0.90	-0.57	-1.16	0.53	1.14	-0.72	**-6.63**
80	1,3,7,11,13,15,23,26,33,37,40,41,45,55	0.78	-0.38	0.31	-0.08	-0.34	1.41	0.08	2.02	1.54	0.04	0.52	-0.90	0.31	-1.16	0.53	1.14	-0.72	**5.10**
81	1,3,7,11,13,15,23,26,33,37,40,43,47,46,48,51	-0.18	-0.38	-0.06	0.70	-1.06	0.55	0.08	1.45	-0.35	-0.90	0.95	1.01	-0.23	-1.16	0.53	1.14	-0.72	**1.36**
82	1,3,7,11,13,15,23,26,33,37,40,43,47,46,48,52,53,54	-0.51	-0.38	-0.42	0.31	-0.52	-0.30	-0.16	1.62	-0.23	-0.90	0.63	0.05	-0.72	-1.16	0.53	1.14	-0.72	**-1.72**
83	1,3,7,11,13,15,23,26,33,37,40,43,47,49,53,54	-1.43	-0.12	-1.28	-0.79	0.33	-0.30	-1.11	2.15	-0.11	-0.79	-0.48	0.05	-1.09	-1.16	0.53	1.14	-0.72	**-5.19**
84	1,3,7,11,13,15,23,26,33,37,40,43,50,54	-1.53	-0.64	-1.30	-0.91	0.26	-0.30	-0.87	1.62	0.48	-0.75	-0.72	-0.90	-1.13	-1.16	0.53	1.14	-0.72	**-6.91**
85	1,3,7,11,13,15,23,26,33,37,42,46,48,51	-0.31	-1.15	-0.10	0.62	-1.11	-0.30	0.08	1.45	-0.35	-0.93	0.91	1.01	-0.31	-1.16	0.53	1.14	-0.72	**-0.71**
86	1,3,7,11,13,15,23,26,33,37,42,46,48,52,53,54	-0.64	-1.15	-0.45	0.23	-0.57	-1.16	-0.16	1.62	-0.23	-0.93	0.59	0.05	-0.79	-1.16	0.53	1.14	-0.72	**-3.79**
87	1,3,7,11,13,15,23,26,33,37,42,47,50,54	-1.52	-0.90	-1.30	-0.82	0.31	-0.30	-0.87	1.62	0.48	-0.70	-0.70	-0.90	-1.13	-1.16	0.53	1.14	-0.72	**-6.93**
88	1,3,7,11,13,15,23,26,33,37,42,49,53,54	-1.57	-1.15	-1.32	-0.87	0.28	-1.16	-1.11	2.15	-0.11	-0.83	-0.51	0.05	-1.16	-1.16	0.53	1.14	-0.72	**-7.52**
89	1,3,7,11,13,15,23,27,28,31,30,32,46,47,50,54	1.00	0.92	0.35	-1.07	0.45	1.41	1.28	1.03	1.77	0.20	0.41	-0.90	0.95	-0.43	0.53	-0.77	0.98	**8.11**
90	1,3,7,11,13,15,23,27,28,31,30,32,46,49,53,54	0.96	0.66	0.33	-1.12	0.42	0.55	1.04	1.55	1.19	0.07	0.58	0.05	0.91	-0.43	0.53	-0.77	0.98	**7.51**
91	1,3,7,11,13,15,23,27,28,31,30,32,48,51	0.46	0.14	1.08	-1.71	-1.53	1.41	1.75	0.85	0.94	-0.03	0.07	-0.90	1.42	-0.43	0.53	-0.77	0.98	**4.26**
92	1,3,7,11,13,15,23,27,28,31,30,32,48,52,53,54	0.13	0.14	0.72	-2.10	-0.99	0.55	1.52	1.03	1.07	-0.03	-0.25	-1.85	0.94	-0.43	0.53	-0.77	0.98	**1.17**
93	1,3,7,11,13,15,23,27,28,31,33,37,40,41,44,55	-0.89	-0.90	-0.58	-1.07	0.36	-0.73	-1.11	1.45	-0.13	-0.40	-0.44	-0.90	-0.60	-1.16	0.53	-0.77	-0.72	**-8.07**
94	1,3,7,11,13,15,23,27,28,31,33,37,40,41,45,55	0.81	0.14	0.26	-0.05	-0.13	1.41	0.08	2.02	1.19	0.41	0.26	-0.90	0.27	-1.16	0.53	-0.77	-0.72	**3.66**
95	1,3,7,11,13,15,23,27,28,31,33,37,40,43,47,46,48,51	-0.15	0.14	-0.10	0.72	-0.86	0.55	0.08	1.45	-0.71	-0.53	0.69	1.01	-0.27	-1.16	0.53	-0.77	-0.72	**-0.08**
96	1,3,7,11,13,15,23,27,28,31,33,37,40,43,47,46,48,52,53,54	-0.47	0.14	-0.46	0.34	-0.32	-0.30	-0.16	1.62	-0.58	-0.53	0.37	0.05	-0.75	-1.16	0.53	-0.77	-0.72	**-3.16**
97	1,3,7,11,13,15,23,27,28,31,33,37,40,43,47,49,53,54	-1.40	0.40	-1.32	-0.76	0.53	-0.30	-1.11	2.15	-0.46	-0.42	-0.73	0.05	-1.12	-1.16	0.53	-0.77	-0.72	**-6.63**
98	1,3,7,11,13,15,23,27,28,31,33,37,40,43,50,54	-1.50	-0.12	-1.34	-0.88	0.47	-0.30	-0.87	1.62	0.12	-0.38	-0.98	-0.90	-1.17	-1.16	0.53	-0.77	-0.72	**-8.35**
99	1,3,7,11,13,15,23,27,28,31,33,37,42,46,48,51	-0.28	-0.64	-0.14	0.64	-0.90	-0.30	0.08	1.45	-0.71	-0.56	0.65	1.01	-0.34	-1.16	0.53	-0.77	-0.72	**-2.15**
100	1,3,7,11,13,15,23,27,28,31,33,37,42,46,48,52,53,54	-0.60	-0.64	-0.49	0.26	-0.36	-1.16	-0.16	1.62	-0.58	-0.56	0.33	0.05	-0.83	-1.16	0.53	-0.77	-0.72	**-5.23**
101	1,3,7,11,13,15,23,27,28,31,33,37,42,47,50,54	-1.49	-0.38	-1.34	-0.79	0.52	-0.30	-0.87	1.62	0.12	-0.33	-0.95	-0.90	-1.16	-1.16	0.53	-0.77	-0.72	**-8.37**
102	1,3,7,11,13,15,23,27,28,31,33,37,42,49,53,54	-1.53	-0.64	-1.36	-0.84	0.49	-1.16	-1.11	2.15	-0.46	-0.46	-0.77	0.05	-1.20	-1.16	0.53	-0.77	-0.72	**-8.96**
103	1,3,7,11,13,15,23,27,28,34,35,37,40,41,44,55	-0.92	-0.90	-0.57	-1.05	0.72	-0.73	-1.35	1.45	0.17	-0.45	-0.47	-0.90	-0.65	-1.16	0.53	-0.77	-0.72	**-7.76**
104	1,3,7,11,13,15,23,27,28,34,35,37,40,41,45,55	0.78	0.14	0.27	-0.03	0.23	1.41	-0.16	2.02	1.49	0.36	0.24	-0.90	0.23	-1.16	0.53	-0.77	-0.72	**3.97**
105	1,3,7,11,13,15,23,27,28,34,35,37,40,43,47,46,48,51	-0.17	0.14	-0.09	0.75	-0.50	0.55	-0.16	1.45	-0.41	-0.57	0.66	1.01	-0.31	-1.16	0.53	-0.77	-0.72	**0.23**
106	1,3,7,11,13,15,23,27,28,34,35,37,40,43,47,46,48,52,53,54	-0.50	0.14	-0.45	0.36	0.04	-0.30	-0.40	1.62	-0.28	-0.57	0.34	0.05	-0.80	-1.16	0.53	-0.77	-0.72	**-2.85**
107	1,3,7,11,13,15,23,27,28,34,35,37,40,43,47,49,53,54	-1.43	0.40	-1.32	-0.74	0.89	-0.30	-1.35	2.15	-0.16	-0.46	-0.76	0.05	-1.17	-1.16	0.53	-0.77	-0.72	**-6.32**
108	1,3,7,11,13,15,23,27,28,34,35,37,40,43,50,54	-1.53	-0.12	-1.34	-0.86	0.83	-0.30	-1.11	1.62	0.42	-0.42	-1.00	-0.90	-1.21	-1.16	0.53	-0.77	-0.72	**-8.04**
109	1,3,7,11,13,15,23,27,28,34,35,37,42,46,48,51	-0.31	-0.64	-0.13	0.67	-0.54	-0.30	-0.16	1.45	-0.41	-0.60	0.63	1.01	-0.38	-1.16	0.53	-0.77	-0.72	**-1.84**
110	1,3,7,11,13,15,23,27,28,34,35,37,42,46,48,52,53,54	-0.63	-0.64	-0.49	0.28	-0.01	-1.16	-0.40	1.62	-0.28	-0.60	0.31	0.05	-0.87	-1.16	0.53	-0.77	-0.72	**-4.93**
111	1,3,7,11,13,15,23,27,28,34,35,37,42,47,50,54	-1.52	-0.38	-1.34	-0.77	0.87	-0.30	-1.11	1.62	0.42	-0.37	-0.98	-0.90	-1.21	-1.16	0.53	-0.77	-0.72	**-8.06**
112	1,3,7,11,13,15,23,27,28,34,35,37,42,49,53,54	-1.56	-0.64	-1.35	-0.82	0.85	-1.16	-1.35	2.15	-0.16	-0.50	-0.80	0.05	-1.24	-1.16	0.53	-0.77	-0.72	**-8.65**
113	1,3,7,11,13,15,23,27,28,34,36,39,41,40,42,46,48,51	1.03	0.14	1.00	0.92	-1.16	-0.30	0.56	1.59	-0.44	1.37	-0.44	1.01	0.66	-1.16	0.53	-0.77	-0.72	**3.82**
114	1,3,7,11,13,15,23,27,28,34,36,39,41,40,42,46,48,52,53,54	0.70	0.14	0.64	0.53	-0.62	-1.16	0.32	1.77	-0.31	1.37	-0.76	0.05	0.17	-1.16	0.53	-0.77	-0.72	**0.73**
115	1,3,7,11,13,15,23,27,28,34,36,39,41,40,42,47,50,54	-0.18	0.40	-0.21	-0.51	0.26	-0.30	-0.40	1.77	0.39	1.60	-2.05	-0.90	-0.16	-1.16	0.53	-0.77	-0.72	**-2.41**
116	1,3,7,11,13,15,23,27,28,34,36,39,41,40,42,49,53,54	-0.23	0.14	-0.23	-0.57	0.23	-1.16	-0.64	2.29	-0.19	1.48	-1.86	0.05	-0.20	-1.16	0.53	-0.77	-0.72	**-2.99**
117	1,3,7,11,13,15,23,27,28,34,36,39,41,43,47,46,48,51	1.03	0.40	1.00	1.00	-1.12	-0.30	0.56	1.59	-0.44	1.40	-0.44	1.01	0.66	-1.16	0.53	-0.77	-0.72	**4.25**
118	1,3,7,11,13,15,23,27,28,34,36,39,41,43,47,46,48,52,53,54	0.70	0.40	0.64	0.61	-0.58	-1.16	0.32	1.77	-0.31	1.40	-0.75	0.05	0.18	-1.16	0.53	-0.77	-0.72	**1.16**
119	1,3,7,11,13,15,23,27,28,34,36,39,41,43,47,49,53,54	-0.23	0.66	-0.23	-0.49	0.27	-1.16	-0.64	2.29	-0.19	1.51	-1.86	0.05	-0.19	-1.16	0.53	-0.77	-0.72	**-2.30**
120	1,3,7,11,13,15,23,27,28,34,36,39,41,43,50,54	-0.33	0.14	-0.24	-0.60	0.21	-1.16	-0.40	1.77	0.39	1.55	-2.10	-0.90	-0.24	-1.16	0.53	-0.77	-0.72	**-4.02**
121	1,3,7,11,13,15,23,27,28,34,36,39,44,55	-1.26	-1.15	0.10	-0.80	0.10	-1.59	-1.59	1.59	0.14	1.53	-2.25	-0.90	-0.30	-1.16	0.53	-0.77	-0.72	**-8.50**
122	1,3,7,11,13,15,23,27,28,34,36,39,45,55	0.44	-0.12	0.94	0.22	-0.39	0.55	-0.40	2.17	1.46	2.34	-1.55	-0.90	0.58	-1.16	0.53	-0.77	-0.72	**3.24**
123	1,3,7,11,13,15,23,27,28,34,38,40,42,46,48,51	-0.27	-0.64	-0.13	0.64	0.17	0.13	-0.16	1.81	-0.08	-0.59	0.59	1.01	-0.38	-1.16	0.53	-0.77	1.40	**2.11**
124	1,3,7,11,13,15,23,27,28,34,38,40,42,46,48,52,53,54	-0.59	-0.64	-0.49	0.25	0.71	-0.73	-0.40	1.99	0.04	-0.59	0.27	0.05	-0.86	-1.16	0.53	-0.77	1.40	**-0.97**
125	1,3,7,11,13,15,23,27,28,34,38,40,42,47,50,54	-1.48	-0.38	-1.34	-0.80	1.59	0.13	-1.11	1.99	0.75	-0.36	-1.02	-0.90	-1.20	-1.16	0.53	-0.77	1.40	**-4.11**
126	1,3,7,11,13,15,23,27,28,34,38,40,42,49,53,54	-1.52	-0.64	-1.36	-0.85	1.56	-0.73	-1.35	2.51	0.17	-0.49	-0.84	0.05	-1.23	-1.16	0.53	-0.77	1.40	**-4.70**

Table F-2: Raw Scores for All Routes

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
127	1,3,7,11,13,15,23,27,28,34,38,41,44,55	-1.01	-1.41	-0.61	-1.08	1.44	-1.16	-1.35	1.81	0.49	-0.43	-0.55	-0.90	-0.71	-1.16	0.53	-0.77	1.40	**-5.46**
128	1,3,7,11,13,15,23,27,28,34,38,41,45,55	0.69	-0.38	0.23	-0.06	0.95	0.98	-0.16	2.39	1.82	0.38	0.16	-0.90	0.17	-1.16	0.53	-0.77	1.40	**6.28**
129	1,3,7,11,13,15,23,27,28,34,38,43,47,46,48,51	-0.26	-0.90	-0.13	0.71	0.22	0.13	-0.16	1.81	-0.08	-0.56	0.59	1.01	-0.37	-1.16	0.53	-0.77	1.40	**2.02**
130	1,3,7,11,13,15,23,27,28,34,38,43,47,46,48,52,53,54	-0.59	-0.90	-0.49	0.33	0.76	-0.73	-0.40	1.99	0.04	-0.56	0.27	0.05	-0.86	-1.16	0.53	-0.77	1.40	**-1.06**
131	1,3,7,11,13,15,23,27,28,34,38,43,47,49,53,54	-1.52	-0.64	-1.35	-0.77	1.61	-0.73	-1.35	2.51	0.17	-0.45	-0.83	0.05	-1.23	-1.16	0.53	-0.77	1.40	**-4.53**
132	1,3,7,11,13,15,23,27,28,34,38,43,50,54	-1.62	-1.15	-1.37	-0.89	1.54	-0.73	-1.11	1.99	0.75	-0.41	-1.07	-0.90	-1.27	-1.16	0.53	-0.77	1.40	**-6.25**
133	1,3,7,11,13,16,18,19,22,24,29,36,35,37,40,41,44,55	0.72	0.14	0.60	-0.81	-0.10	0.13	-0.16	0.33	0.18	-0.57	0.49	-0.90	1.06	1.64	0.53	-0.77	-0.72	**1.78**
134	1,3,7,11,13,16,18,19,22,24,29,36,35,37,40,41,45,55	2.42	1.18	1.44	0.21	-0.59	2.27	1.04	0.90	1.50	0.24	1.19	-0.90	1.93	1.64	0.53	-0.77	-0.72	**13.52**
135	1,3,7,11,13,16,18,19,22,24,29,36,35,37,40,43,47,46,48,51	1.47	1.18	1.07	0.98	-1.32	1.41	1.04	0.33	-0.39	-0.69	1.62	1.01	1.39	1.64	0.53	-0.77	-0.72	**9.78**
136	1,3,7,11,13,16,18,19,22,24,29,36,35,37,40,43,47,46,48,52,53,54	1.14	1.18	0.72	0.60	-0.78	0.55	0.80	0.51	-0.27	-0.69	1.30	0.05	0.91	1.64	0.53	-0.77	-0.72	**6.69**
137	1,3,7,11,13,16,18,19,22,24,29,36,35,37,40,43,47,49,53,54	0.21	1.44	-0.15	-0.50	0.07	0.55	-0.16	1.03	-0.15	-0.59	0.19	0.05	0.54	1.64	0.53	-0.77	-0.72	**3.23**
138	1,3,7,11,13,16,18,19,22,24,29,36,35,37,40,43,50,54	0.11	0.92	-0.17	-0.62	0.00	0.55	0.08	0.51	0.43	-0.54	-0.05	-0.90	0.49	1.64	0.53	-0.77	-0.72	**1.51**
139	1,3,7,11,13,16,18,19,22,24,29,36,35,37,42,46,48,51	1.34	0.40	1.04	0.90	-1.36	0.55	1.04	0.33	-0.39	-0.72	1.58	1.01	1.32	1.64	0.53	-0.77	-0.72	**7.71**
140	1,3,7,11,13,16,18,19,22,24,29,36,35,37,42,46,48,52,53,54	1.01	0.40	0.68	0.52	-0.83	-0.30	0.80	0.51	-0.27	-0.72	1.26	0.05	0.83	1.64	0.53	-0.77	-0.72	**4.62**
141	1,3,7,11,13,16,18,19,22,24,29,36,35,37,42,47,50,54	0.13	0.66	-0.17	-0.53	0.05	0.55	0.08	0.51	0.43	-0.49	-0.03	-0.90	0.50	1.64	0.53	-0.77	-0.72	**1.48**
142	1,3,7,11,13,16,18,19,22,24,29,36,35,37,42,49,53,54	0.08	0.40	-0.19	-0.58	0.03	-0.30	-0.16	1.03	-0.15	-0.62	0.16	0.05	0.46	1.64	0.53	-0.77	-0.72	**0.90**
143	1,3,7,11,13,16,18,19,22,24,29,36,38,40,42,46,48,51	1.38	0.66	1.03	0.87	-0.65	0.98	1.04	0.70	-0.07	-0.71	1.54	1.01	1.33	1.64	0.53	-0.77	1.40	**11.92**
144	1,3,7,11,13,16,18,19,22,24,29,36,38,40,42,46,48,52,53,54	1.05	0.66	0.68	0.49	-0.11	0.13	0.80	0.87	0.05	-0.71	1.22	0.05	0.84	1.64	0.53	-0.77	1.40	**8.83**
145	1,3,7,11,13,16,18,19,22,24,29,36,38,40,42,47,50,54	0.17	0.92	-0.17	-0.56	0.77	0.98	0.08	0.87	0.76	-0.48	-0.07	-0.90	0.51	1.64	0.53	-0.77	1.40	**5.69**
146	1,3,7,11,13,16,18,19,22,24,29,36,38,40,42,49,53,54	0.12	0.66	-0.19	-0.61	0.74	0.13	-0.16	1.39	0.18	-0.61	0.12	0.05	0.47	1.64	0.53	-0.77	1.40	**5.11**
147	1,3,7,11,13,16,18,19,22,24,29,36,38,41,44,55	0.63	-0.12	0.56	-0.84	0.62	-0.30	-0.16	0.70	0.50	-0.56	0.41	-0.90	1.00	1.64	0.53	-0.77	1.40	**4.34**
148	1,3,7,11,13,16,18,19,22,24,29,36,38,41,45,55	2.33	0.92	1.40	0.18	0.12	1.84	1.04	1.27	1.83	0.25	1.11	-0.90	1.87	1.64	0.53	-0.77	1.40	**16.08**
149	1,3,7,11,13,16,18,19,22,24,29,36,38,43,47,46,48,51	1.38	0.40	1.04	0.95	-0.60	0.98	1.04	0.70	-0.07	-0.68	1.55	1.01	1.33	1.64	0.53	-0.77	1.40	**11.83**
150	1,3,7,11,13,16,18,19,22,24,29,36,38,43,47,46,48,52,53,54	1.05	0.40	0.68	0.57	-0.06	0.13	0.80	0.87	0.05	-0.68	1.23	0.05	0.85	1.64	0.53	-0.77	1.40	**8.74**
151	1,3,7,11,13,16,18,19,22,24,29,36,38,43,47,49,53,54	0.12	0.66	-0.19	-0.53	0.79	0.13	-0.16	1.39	0.18	-0.58	0.12	0.05	0.47	1.64	0.53	-0.77	1.40	**5.28**
152	1,3,7,11,13,16,18,19,22,24,29,36,38,43,50,54	0.02	0.14	-0.21	-0.65	0.72	0.13	0.08	0.87	0.76	-0.53	-0.12	-0.90	0.43	1.64	0.53	-0.77	1.40	**3.56**
153	1,3,7,11,13,16,18,19,22,24,29,39,41,40,42,46,48,51	1.58	0.40	1.87	0.53	-1.98	-0.30	1.75	0.47	-0.42	0.61	0.27	1.01	1.81	1.64	0.53	-0.77	-0.72	**8.27**
154	1,3,7,11,13,16,18,19,22,24,29,39,41,40,42,46,48,52,53,54	1.25	0.40	1.51	0.14	-1.44	-1.16	1.52	0.65	-0.30	0.61	-0.05	0.05	1.32	1.64	0.53	-0.77	-0.72	**5.18**
155	1,3,7,11,13,16,18,19,22,24,29,39,41,40,42,47,50,54	0.37	0.66	0.66	-0.90	-0.56	-0.30	0.80	0.65	0.40	0.84	-1.33	-0.90	0.98	1.64	0.53	-0.77	-0.72	**2.04**
156	1,3,7,11,13,16,18,19,22,24,29,39,41,40,42,49,53,54	0.32	0.40	0.64	-0.96	-0.59	-1.16	0.56	1.17	-0.18	0.71	-1.15	0.05	0.95	1.64	0.53	-0.77	-0.72	**1.46**
157	1,3,7,11,13,16,18,19,22,24,29,39,41,43,47,46,48,51	1.58	0.66	1.87	0.61	-1.94	-0.30	1.75	0.47	-0.42	0.64	0.28	1.01	1.81	1.64	0.53	-0.77	-0.72	**8.70**
158	1,3,7,11,13,16,18,19,22,24,29,39,41,43,47,46,48,52,53,54	1.25	0.66	1.51	0.22	-1.40	-1.16	1.52	0.65	-0.30	0.64	-0.04	0.05	1.32	1.64	0.53	-0.77	-0.72	**5.61**
159	1,3,7,11,13,16,18,19,22,24,29,39,41,43,47,49,53,54	0.32	0.92	0.65	-0.88	-0.55	-1.16	0.56	1.17	-0.18	0.75	-1.15	0.05	0.95	1.64	0.53	-0.77	-0.72	**2.15**
160	1,3,7,11,13,16,18,19,22,24,29,39,41,43,50,54	0.22	0.40	0.63	-0.99	-0.61	-1.16	0.80	0.65	0.40	0.79	-1.39	-0.90	0.91	1.64	0.53	-0.77	-0.72	**0.43**
161	1,3,7,11,13,16,18,19,22,24,29,39,44,55	-0.71	-0.90	0.98	-1.19	-0.72	-1.59	-0.40	0.47	0.15	0.76	-1.54	-0.90	0.85	1.64	0.53	-0.77	-0.72	**-4.05**
162	1,3,7,11,13,16,18,19,22,24,29,39,45,55	0.99	0.14	1.82	-0.17	-1.21	0.55	0.80	1.05	1.47	1.58	-0.83	-0.90	1.72	1.64	0.53	-0.77	-0.72	**7.69**
163	1,3,7,11,13,16,18,19,22,25,29,36,35,37,40,41,44,55	0.51	-0.12	0.54	-1.25	0.23	0.13	0.08	0.35	-0.26	-0.50	0.12	-0.90	1.00	1.68	0.53	-0.77	-0.72	**0.65**
164	1,3,7,11,13,16,18,19,22,25,29,36,35,37,40,41,45,55	2.21	0.92	1.38	-0.23	-0.26	2.27	1.28	0.93	1.07	0.31	0.83	-0.90	1.87	1.68	0.53	-0.77	-0.72	**12.39**
165	1,3,7,11,13,16,18,19,22,25,29,36,35,37,40,43,47,46,48,51	1.25	0.92	1.01	0.55	-0.99	1.41	1.28	0.35	-0.83	-0.62	1.25	1.01	1.33	1.68	0.53	-0.77	-0.72	**8.65**
166	1,3,7,11,13,16,18,19,22,25,29,36,35,37,40,43,47,46,48,52,53,54	0.93	0.92	0.66	0.16	-0.45	0.55	1.04	0.53	-0.71	-0.62	0.93	0.05	0.85	1.68	0.53	-0.77	-0.72	**5.56**
167	1,3,7,11,13,16,18,19,22,25,29,36,35,37,40,43,47,49,53,54	0.00	1.18	-0.21	-0.94	0.40	0.55	0.08	1.05	-0.59	-0.52	-0.17	0.05	0.48	1.68	0.53	-0.77	-0.72	**2.10**
168	1,3,7,11,13,16,18,19,22,25,29,36,35,37,40,43,50,54	-0.10	0.66	-0.23	-1.05	0.34	0.55	0.32	0.53	0.00	-0.47	-0.41	-0.90	0.43	1.68	0.53	-0.77	-0.72	**0.38**
169	1,3,7,11,13,16,18,19,22,25,29,36,35,37,42,46,48,51	1.12	0.14	0.98	0.47	-1.03	0.55	1.28	0.35	-0.83	-0.65	1.22	1.01	1.26	1.68	0.53	-0.77	-0.72	**6.57**
170	1,3,7,11,13,16,18,19,22,25,29,36,35,37,42,46,48,52,53,54	0.80	0.14	0.62	0.08	-0.49	-0.30	1.04	0.53	-0.71	-0.65	0.90	0.05	0.78	1.68	0.53	-0.77	-0.72	**3.49**
171	1,3,7,11,13,16,18,19,22,25,29,36,35,37,42,47,50,54	-0.09	0.40	-0.23	-0.96	0.39	0.55	0.32	0.53	0.00	-0.42	-0.39	-0.90	0.44	1.68	0.53	-0.77	-0.72	**0.35**
172	1,3,7,11,13,16,18,19,22,25,29,36,35,37,42,49,53,54	-0.13	0.14	-0.25	-1.01	0.36	-0.30	0.08	1.05	-0.59	-0.55	-0.21	0.05	0.40	1.68	0.53	-0.77	-0.72	**-0.24**
173	1,3,7,11,13,16,18,19,22,25,29,36,38,40,42,46,48,51	1.16	0.40	0.98	0.44	-0.31	0.98	1.28	0.72	-0.51	-0.64	1.17	1.01	1.27	1.68	0.53	-0.77	1.40	**10.79**
174	1,3,7,11,13,16,18,19,22,25,29,36,38,40,42,46,48,52,53,54	0.83	0.40	0.62	0.05	0.22	0.13	1.04	0.90	-0.39	-0.64	0.86	0.05	0.78	1.68	0.53	-0.77	1.40	**7.70**
175	1,3,7,11,13,16,18,19,22,25,29,36,38,40,42,47,50,54	-0.05	0.66	-0.23	-0.99	1.10	0.98	0.32	0.90	0.32	-0.41	-0.43	-0.90	0.45	1.68	0.53	-0.77	1.40	**4.56**
176	1,3,7,11,13,16,18,19,22,25,29,36,38,40,42,49,53,54	-0.09	0.40	-0.25	-1.05	1.08	0.13	0.08	1.42	-0.26	-0.54	-0.25	0.05	0.41	1.68	0.53	-0.77	1.40	**3.98**
177	1,3,7,11,13,16,18,19,22,25,29,36,38,41,44,55	0.42	-0.38	0.50	-1.28	0.95	-0.30	0.08	0.72	0.06	-0.49	0.04	-0.90	0.94	1.68	0.53	-0.77	1.40	**3.21**
178	1,3,7,11,13,16,18,19,22,25,29,36,38,41,45,55	2.12	0.66	1.34	-0.26	0.46	1.84	1.28	1.29	1.39	0.32	0.75	-0.90	1.81	1.68	0.53	-0.77	1.40	**14.95**
179	1,3,7,11,13,16,18,19,22,25,29,36,38,43,47,46,48,51	1.16	0.14	0.98	0.52	-0.27	0.98	1.28	0.72	-0.51	-0.61	1.18	1.01	1.27	1.68	0.53	-0.77	1.40	**10.70**
180	1,3,7,11,13,16,18,19,22,25,29,36,38,43,47,46,48,52,53,54	0.84	0.14	0.62	0.13	0.27	0.13	1.04	0.90	-0.39	-0.61	0.86	0.05	0.79	1.68	0.53	-0.77	1.40	**7.61**
181	1,3,7,11,13,16,18,19,22,25,29,36,38,43,47,49,53,54	-0.09	0.40	-0.25	-0.97	1.12	0.13	0.08	1.42	-0.26	-0.51	-0.24	0.05	0.42	1.68	0.53	-0.77	1.40	**4.15**
182	1,3,7,11,13,16,18,19,22,25,29,36,38,43,50,54	-0.19	-0.12	-0.26	-1.08	1.05	0.13	0.32	0.90	0.32	-0.46	-0.49	-0.90	0.37	1.68	0.53	-0.77	1.40	**2.43**
183	1,3,7,11,13,16,18,19,22,25,29,39,41,40,42,46,48,51	1.36	0.14	1.81	0.10	-1.65	-0.30	1.99	0.49	-0.86	0.68	-0.09	1.01	1.75	1.68	0.53	-0.77	-0.72	**7.14**
184	1,3,7,11,13,16,18,19,22,25,29,39,41,40,42,46,48,52,53,54	1.04	0.14	1.45	-0.29	-1.11	-1.16	1.75	0.67	-0.74	0.68	-0.41	0.05	1.26	1.68	0.53	-0.77	-0.72	**4.05**
185	1,3,7,11,13,16,18,19,22,25,29,39,41,40,42,47,50,54	0.15	0.40	0.60	-1.34	-0.23	-0.30	1.04	0.67	-0.03	0.91	-1.70	-0.90	0.93	1.68	0.53	-0.77	-0.72	**0.91**
186	1,3,7,11,13,16,18,19,22,25,29,39,41,40,42,49,53,54	0.11	0.14	0.59	-1.39	-0.26	-1.16	0.80	1.19	-0.62	0.78	-1.52	0.05	0.89	1.68	0.53	-0.77	-0.72	**0.33**
187	1,3,7,11,13,16,18,19,22,25,29,39,41,43,47,46,48,51	1.36	0.40	1.81	0.18	-1.60	-0.30	1.99	0.49	-0.86	0.71	-0.09	1.01	1.75	1.68	0.53	-0.77	-0.72	**7.57**
188	1,3,7,11,13,16,18,19,22,25,29,39,41,43,47,46,48,52,53,54	1.04	0.40	1.45	-0.21	-1.07	-1.16	1.75	0.67	-0.74	0.71	-0.41	0.05	1.27	1.68	0.53	-0.77	-0.72	**4.48**
189	1,3,7,11,13,16,18,19,22,25,29,39,41,43,47,49,53,54	0.11	0.66	0.59	-1.31	-0.22	-1.16	0.80	1.19	-0.62	0.82	-1.51	0.05	0.90	1.68	0.53	-0.77	-0.72	**1.02**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
190	1,3,7,11,13,16,18,19,22,25,29,39,41,43,50,54	0.01	0.14	0.57	-1.43	-0.28	-1.16	1.04	0.67	-0.03	0.86	-1.75	-0.90	0.85	1.68	0.53	-0.77	-0.72	**-0.70**
191	1,3,7,11,13,16,18,19,22,25,29,39,44,55	-0.92	-1.15	0.92	-1.62	-0.39	-1.59	-0.16	0.49	-0.29	0.83	-1.91	-0.90	0.79	1.68	0.53	-0.77	-0.72	**-5.18**
192	1,3,7,11,13,16,18,19,22,25,29,39,45,55	0.78	-0.12	1.76	-0.60	-0.88	0.55	1.04	1.07	1.03	1.64	-1.20	-0.90	1.66	1.68	0.53	-0.77	-0.72	**6.56**
193	1,3,7,11,13,16,18,21,27,26,30,32,46,47,50,54	1.05	1.70	0.36	-0.59	0.56	2.27	1.75	0.27	1.82	-0.62	1.31	-0.90	1.04	0.39	0.53	1.14	0.98	**13.06**
194	1,3,7,11,13,16,18,21,27,26,30,32,46,49,53,54	1.00	1.44	0.34	-0.64	0.53	1.41	1.52	0.79	1.24	-0.74	1.47	0.05	1.00	0.39	0.53	1.14	0.98	**12.46**
195	1,3,7,11,13,16,18,21,27,26,30,32,48,51	0.50	0.92	1.09	-1.23	-1.42	2.27	2.23	0.09	0.99	-0.85	0.97	-0.90	1.51	0.39	0.53	1.14	0.98	**9.21**
196	1,3,7,11,13,16,18,21,27,26,30,32,48,52,53,54	0.18	0.92	0.73	-1.62	-0.89	1.41	1.99	0.27	1.12	-0.85	0.65	-1.85	1.02	0.39	0.53	1.14	0.98	**6.12**
197	1,3,7,11,13,16,18,21,27,26,31,34,35,37,40,41,44,55	-0.78	0.40	-0.54	-0.57	0.82	0.13	-0.87	0.69	0.22	-1.23	0.51	-0.90	-0.50	-0.33	0.53	1.14	-0.72	**-2.01**
198	1,3,7,11,13,16,18,21,27,26,31,34,35,37,40,41,45,55	0.92	1.44	0.30	0.45	0.33	2.27	0.32	1.26	1.54	-0.42	1.22	-0.90	0.38	-0.33	0.53	1.14	-0.72	**9.73**
199	1,3,7,11,13,16,18,21,27,26,31,34,35,37,40,43,47,46,48,51	-0.03	1.44	-0.06	1.23	-0.39	1.41	0.32	0.69	-0.36	-1.36	1.64	1.01	-0.16	-0.33	0.53	1.14	-0.72	**5.99**
200	1,3,7,11,13,16,18,21,27,26,31,34,35,37,40,43,47,46,48,52,53,54	-0.36	1.44	-0.42	0.84	0.14	0.55	0.08	0.86	-0.23	-1.36	1.32	0.05	-0.64	-0.33	0.53	1.14	-0.72	**2.90**
201	1,3,7,11,13,16,18,21,27,26,31,34,35,37,40,43,47,49,53,54	-1.29	1.70	-1.28	-0.26	0.99	0.55	-0.87	1.38	-0.11	-1.25	0.22	0.05	-1.02	-0.33	0.53	1.14	-0.72	**-0.56**
202	1,3,7,11,13,16,18,21,27,26,31,34,35,37,40,43,50,54	-1.39	1.18	-1.30	-0.38	0.93	0.55	-0.64	0.86	0.47	-1.21	-0.02	-0.90	-1.06	-0.33	0.53	1.14	-0.72	**-2.28**
203	1,3,7,11,13,16,18,21,27,26,31,34,35,37,42,46,48,51	-0.16	0.66	-0.10	1.15	-0.44	0.55	0.32	0.69	-0.36	-1.39	1.61	1.01	-0.23	-0.33	0.53	1.14	-0.72	**3.92**
204	1,3,7,11,13,16,18,21,27,26,31,34,35,37,42,46,48,52,53,54	-0.49	0.66	-0.45	0.76	0.10	-0.30	0.08	0.86	-0.23	-1.39	1.29	0.05	-0.72	-0.33	0.53	1.14	-0.72	**0.83**
205	1,3,7,11,13,16,18,21,27,26,31,34,35,37,42,47,50,54	-1.37	0.92	-1.30	-0.29	0.98	0.55	-0.64	0.86	0.47	-1.16	0.00	-0.90	-1.05	-0.33	0.53	1.14	-0.72	**-2.31**
206	1,3,7,11,13,16,18,21,27,26,31,34,35,37,42,49,53,54	-1.42	0.66	-1.32	-0.34	0.95	-0.30	-0.87	1.38	-0.11	-1.29	0.18	0.05	-1.09	-0.33	0.53	1.14	-0.72	**-2.89**
207	1,3,7,11,13,16,18,21,27,26,31,34,36,39,41,40,42,46,48,51	1.17	1.44	1.03	1.40	-1.06	0.55	1.04	0.83	-0.39	0.58	0.54	1.01	0.81	-0.33	0.53	1.14	-0.72	**9.57**
208	1,3,7,11,13,16,18,21,27,26,31,34,36,39,41,40,42,46,48,52,53,54	0.84	1.44	0.67	1.02	-0.52	-0.30	0.80	1.01	-0.26	0.58	0.22	0.05	0.32	-0.33	0.53	1.14	-0.72	**6.49**
209	1,3,7,11,13,16,18,21,27,26,31,34,36,39,41,40,42,47,50,54	-0.04	1.70	-0.17	-0.03	0.36	0.55	0.08	1.01	0.44	0.82	-1.07	-0.90	-0.01	-0.33	0.53	1.14	-0.72	**3.35**
210	1,3,7,11,13,16,18,21,27,26,31,34,36,39,41,40,42,49,53,54	-0.08	1.44	-0.19	-0.08	0.33	-0.30	-0.16	1.53	-0.14	0.69	-0.88	0.05	-0.05	-0.33	0.53	1.14	-0.72	**2.76**
211	1,3,7,11,13,16,18,21,27,26,31,34,36,39,41,43,47,46,48,51	1.17	1.70	1.03	1.48	-1.01	0.55	1.04	0.83	-0.39	0.62	0.54	1.01	0.81	-0.33	0.53	1.14	-0.72	**10.00**
212	1,3,7,11,13,16,18,21,27,26,31,34,36,39,41,43,47,46,48,52,53,54	0.84	1.70	0.68	1.10	-0.47	-0.30	0.80	1.01	-0.26	0.62	0.22	0.05	0.33	-0.33	0.53	1.14	-0.72	**6.92**
213	1,3,7,11,13,16,18,21,27,26,31,34,36,39,41,43,47,49,53,54	-0.08	1.96	-0.19	0.00	0.38	-0.30	-0.16	1.53	-0.14	0.72	-0.88	0.05	-0.04	-0.33	0.53	1.14	-0.72	**3.45**
214	1,3,7,11,13,16,18,21,27,26,31,34,36,39,41,43,50,54	-0.18	1.44	-0.21	-0.12	0.31	-0.30	0.08	1.01	0.44	0.76	-1.12	-0.90	-0.09	-0.33	0.53	1.14	-0.72	**1.73**
215	1,3,7,11,13,16,18,21,27,26,31,34,36,39,44,55	-1.12	0.14	0.14	-0.31	0.21	-0.73	-1.11	0.83	0.19	0.74	-1.27	-0.90	-0.15	-0.33	0.53	1.14	-0.72	**-2.74**
216	1,3,7,11,13,16,18,21,27,26,31,34,36,39,45,55	0.58	1.18	0.98	0.70	-0.29	1.41	0.08	1.40	1.51	1.55	-0.57	-0.90	0.73	-0.33	0.53	1.14	-0.72	**8.99**
217	1,3,7,11,13,16,18,21,27,26,31,34,38,40,42,46,48,51	-0.12	0.66	-0.10	1.12	0.28	0.98	0.32	1.05	-0.03	-1.38	1.57	1.01	-0.23	-0.33	0.53	1.14	1.40	**7.87**
218	1,3,7,11,13,16,18,21,27,26,31,34,38,40,42,46,48,52,53,54	-0.45	0.66	-0.46	0.73	0.82	0.13	0.08	1.23	0.09	-1.38	1.25	0.05	-0.71	-0.33	0.53	1.14	1.40	**4.79**
219	1,3,7,11,13,16,18,21,27,26,31,34,38,40,42,47,50,54	-1.34	0.92	-1.30	-0.32	1.70	0.98	-0.64	1.23	0.79	-1.15	-0.04	-0.90	-1.05	-0.33	0.53	1.14	1.40	**1.65**
220	1,3,7,11,13,16,18,21,27,26,31,34,38,40,42,49,53,54	-1.38	0.66	-1.32	-0.37	1.67	0.13	-0.87	1.75	0.21	-1.27	0.14	0.05	-1.08	-0.33	0.53	1.14	1.40	**1.06**
221	1,3,7,11,13,16,18,21,27,26,31,34,38,41,44,55	-0.87	-0.12	-0.57	-0.60	1.54	-0.30	-0.87	1.05	0.54	-1.22	0.43	-0.90	-0.56	-0.33	0.53	1.14	1.40	**0.30**
222	1,3,7,11,13,16,18,21,27,26,31,34,38,41,45,55	0.83	0.92	0.27	0.42	1.05	1.84	0.32	1.63	1.86	-0.41	1.14	-0.90	0.32	-0.33	0.53	1.14	1.40	**12.03**
223	1,3,7,11,13,16,18,21,27,26,31,34,38,43,47,46,48,51	-0.12	0.40	-0.10	1.20	0.32	0.98	0.32	1.05	-0.03	-1.35	1.57	1.01	-0.22	-0.33	0.53	1.14	1.40	**7.78**
224	1,3,7,11,13,16,18,21,27,26,31,34,38,43,47,46,48,52,53,54	-0.45	0.40	-0.45	0.81	0.86	0.13	0.08	1.23	0.09	-1.35	1.25	0.05	-0.71	-0.33	0.53	1.14	1.40	**4.70**
225	1,3,7,11,13,16,18,21,27,26,31,34,38,43,47,49,53,54	-1.38	0.66	-1.32	-0.29	1.71	0.13	-0.87	1.75	0.21	-1.24	0.15	0.05	-1.08	-0.33	0.53	1.14	1.40	**1.23**
226	1,3,7,11,13,16,18,21,27,26,31,34,38,43,50,54	-1.48	0.14	-1.34	-0.41	1.65	0.13	-0.64	1.23	0.79	-1.20	-0.09	-0.90	-1.12	-0.33	0.53	1.14	1.40	**-0.49**
227	1,3,7,11,13,16,18,21,27,26,33,37,40,41,44,55	-0.84	-0.64	-0.57	-0.59	0.47	0.13	-0.64	0.69	-0.09	-1.22	0.46	-0.90	-0.52	-0.33	0.53	1.14	-0.72	**-3.64**
228	1,3,7,11,13,16,18,21,27,26,33,37,40,41,45,55	0.86	0.40	0.27	0.43	-0.03	2.27	0.56	1.26	1.24	-0.41	1.16	-0.90	0.36	-0.33	0.53	1.14	-0.72	**8.10**
229	1,3,7,11,13,16,18,21,27,26,33,37,40,43,47,46,48,51	-0.10	0.40	-0.09	1.20	-0.75	1.41	0.56	0.69	-0.66	-1.34	1.59	1.01	-0.18	-0.33	0.53	1.14	-0.72	**4.36**
230	1,3,7,11,13,16,18,21,27,26,33,37,40,43,47,46,48,52,53,54	-0.42	0.40	-0.45	0.82	-0.21	0.55	0.32	0.86	-0.54	-1.34	1.27	0.05	-0.66	-0.33	0.53	1.14	-0.72	**1.27**
231	1,3,7,11,13,16,18,21,27,26,33,37,40,43,47,49,53,54	-1.35	0.66	-1.32	-0.28	0.64	0.55	-0.64	1.38	-0.41	-1.24	0.17	0.05	-1.04	-0.33	0.53	1.14	-0.72	**-2.19**
232	1,3,7,11,13,16,18,21,27,26,33,37,40,43,50,54	-1.45	0.14	-1.34	-0.40	0.57	0.55	-0.40	0.86	0.17	-1.19	-0.08	-0.90	-1.08	-0.33	0.53	1.14	-0.72	**-3.91**
233	1,3,7,11,13,16,18,21,27,26,33,37,42,46,48,51	-0.23	-0.38	-0.13	1.13	-0.80	0.55	0.56	0.69	-0.66	-1.37	1.55	1.01	-0.25	-0.33	0.53	1.14	-0.72	**2.28**
234	1,3,7,11,13,16,18,21,27,26,33,37,42,46,48,52,53,54	-0.56	-0.38	-0.49	0.74	-0.26	-0.30	0.32	0.86	-0.54	-1.37	1.23	0.05	-0.74	-0.33	0.53	1.14	-0.72	**-0.80**
235	1,3,7,11,13,16,18,21,27,26,33,37,42,47,50,54	-1.44	-0.12	-1.33	-0.31	0.62	0.55	-0.40	0.86	0.17	-1.14	-0.05	-0.90	-1.07	-0.33	0.53	1.14	-0.72	**-3.94**
236	1,3,7,11,13,16,18,21,27,26,33,37,42,49,53,54	-1.48	-0.38	-1.35	-0.36	0.59	-0.30	-0.64	1.38	-0.41	-1.27	0.13	0.05	-1.11	-0.33	0.53	1.14	-0.72	**-4.53**
237	1,3,7,11,13,16,18,21,28,31,30,32,46,47,50,54	0.97	1.18	0.29	-0.56	0.76	2.27	1.75	0.27	1.47	-0.37	1.06	-0.90	0.94	0.39	0.53	-0.77	0.98	**10.26**
238	1,3,7,11,13,16,18,21,28,31,30,32,46,49,53,54	0.93	0.92	0.27	-0.61	0.73	1.41	1.52	0.79	0.89	-0.50	1.22	0.05	0.91	0.39	0.53	-0.77	0.98	**9.66**
239	1,3,7,11,13,16,18,21,28,31,30,32,48,51	0.43	0.40	1.02	-1.21	-1.22	2.27	2.23	0.09	0.64	-0.60	0.71	-0.90	1.42	0.39	0.53	-0.77	0.98	**6.41**
240	1,3,7,11,13,16,18,21,28,31,30,32,48,52,53,54	0.10	0.40	0.66	-1.59	-0.68	1.41	1.99	0.27	0.76	-0.60	0.39	-1.85	0.93	0.39	0.53	-0.77	0.98	**3.32**
241	1,3,7,11,13,16,18,21,28,31,33,37,40,41,44,55	-0.91	-0.64	-0.64	-0.56	0.67	0.13	-0.64	0.69	-0.44	-0.97	0.20	-0.90	-0.61	-0.33	0.53	-0.77	-0.72	**-5.92**
242	1,3,7,11,13,16,18,21,28,31,33,37,40,41,45,55	0.79	0.40	0.20	0.45	0.18	2.27	0.56	1.26	0.88	-0.16	0.91	-0.90	0.27	-0.33	0.53	-0.77	-0.72	**5.81**
243	1,3,7,11,13,16,18,21,28,31,33,37,40,43,47,46,48,51	-0.17	0.40	-0.16	1.23	-0.55	1.41	0.56	0.69	-1.01	-1.10	1.33	1.01	-0.27	-0.33	0.53	-0.77	-0.72	**2.07**
244	1,3,7,11,13,16,18,21,28,31,33,37,40,43,47,46,48,52,53,54	-0.50	0.40	-0.52	0.85	-0.01	0.55	0.32	0.86	-0.89	-1.10	1.01	0.05	-0.76	-0.33	0.53	-0.77	-0.72	**-1.01**
245	1,3,7,11,13,16,18,21,28,31,33,37,40,43,47,49,53,54	-1.42	0.66	-1.39	-0.25	0.84	0.55	-0.64	1.38	-0.77	-0.99	-0.09	0.05	-1.13	-0.33	0.53	-0.77	-0.72	**-4.48**
246	1,3,7,11,13,16,18,21,28,31,33,37,40,43,50,54	-1.52	0.14	-1.40	-0.37	0.78	0.55	-0.40	0.86	-0.18	-0.95	-0.33	-0.90	-1.17	-0.33	0.53	-0.77	-0.72	**-6.20**
247	1,3,7,11,13,16,18,21,28,31,33,37,42,46,48,51	-0.30	-0.38	-0.20	1.15	-0.59	0.55	0.56	0.69	-1.01	-1.13	1.29	1.01	-0.35	-0.33	0.53	-0.77	-0.72	**0.00**
248	1,3,7,11,13,16,18,21,28,31,33,37,42,46,48,52,53,54	-0.63	-0.38	-0.56	0.77	-0.05	-0.30	0.32	0.86	-0.89	-1.13	0.98	0.05	-0.83	-0.33	0.53	-0.77	-0.72	**-3.08**
249	1,3,7,11,13,16,18,21,28,31,33,37,42,47,50,54	-1.51	-0.12	-1.40	-0.28	0.83	0.55	-0.40	0.86	-0.18	-0.90	-0.31	-0.90	-1.17	-0.33	0.53	-0.77	-0.72	**-6.22**
250	1,3,7,11,13,16,18,21,28,31,33,37,42,49,53,54	-1.56	-0.38	-1.42	-0.33	0.80	-0.30	-0.64	1.38	-0.77	-1.02	-0.13	0.05	-1.20	-0.33	0.53	-0.77	-0.72	**-6.81**
251	1,3,7,11,13,16,18,21,28,34,35,37,40,41,44,55	-0.94	-0.64	-0.63	-0.54	1.03	0.13	-0.87	0.69	-0.14	-1.01	0.17	-0.90	-0.65	-0.33	0.53	-0.77	-0.72	**-5.61**
252	1,3,7,11,13,16,18,21,28,34,35,37,40,41,45,55	0.76	0.40	0.21	0.48	0.54	2.27	0.32	1.26	1.19	-0.20	0.88	-0.90	0.22	-0.33	0.53	-0.77	-0.72	**6.12**

Table F-2: Raw Scores for All Routes

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
253	1,3,7,11,13,16,18,21,28,34,35,37,40,43,47,46,48,51	-0.20	0.40	-0.16	1.25	-0.19	1.41	0.32	0.69	-0.71	-1.14	1.31	1.01	-0.32	-0.33	0.53	-0.77	-0.72	**2.38**
254	1,3,7,11,13,16,18,21,28,34,35,37,40,43,47,46,48,52,53,54	-0.52	0.40	-0.51	0.87	0.35	0.55	0.08	0.86	-0.59	-1.14	0.99	0.05	-0.80	-0.33	0.53	-0.77	-0.72	**-0.70**
255	1,3,7,11,13,16,18,21,28,34,35,37,40,43,47,49,53,54	-1.45	0.66	-1.38	-0.23	1.20	0.55	-0.87	1.38	-0.46	-1.03	-0.12	0.05	-1.17	-0.33	0.53	-0.77	-0.72	**-4.17**
256	1,3,7,11,13,16,18,21,28,34,35,37,40,43,50,54	-1.55	0.14	-1.40	-0.35	1.13	0.55	-0.64	0.86	0.12	-0.99	-0.36	-0.90	-1.22	-0.33	0.53	-0.77	-0.72	**-5.89**
257	1,3,7,11,13,16,18,21,28,34,35,37,42,46,48,51	-0.33	-0.38	-0.19	1.17	-0.23	0.55	0.32	0.69	-0.71	-1.17	1.27	1.01	-0.39	-0.33	0.53	-0.77	-0.72	**0.31**
258	1,3,7,11,13,16,18,21,28,34,35,37,42,46,48,52,53,54	-0.66	-0.38	-0.55	0.79	0.30	-0.30	0.08	0.86	-0.59	-1.17	0.95	0.05	-0.88	-0.33	0.53	-0.77	-0.72	**-2.78**
259	1,3,7,11,13,16,18,21,28,34,35,37,42,47,50,54	-1.54	-0.12	-1.40	-0.26	1.18	0.55	-0.64	0.86	0.12	-0.94	-0.34	-0.90	-1.21	-0.33	0.53	-0.77	-0.72	**-5.92**
260	1,3,7,11,13,16,18,21,28,34,35,37,42,49,53,54	-1.58	-0.38	-1.42	-0.31	1.16	-0.30	-0.87	1.38	-0.46	-1.07	-0.15	0.05	-1.25	-0.33	0.53	-0.77	-0.72	**-6.50**
261	1,3,7,11,13,16,18,21,28,34,36,39,41,40,42,46,48,51	1.00	0.40	0.93	1.43	-0.85	0.55	1.04	0.83	-0.74	0.80	0.20	1.01	0.65	-0.33	0.53	-0.77	-0.72	**5.97**
262	1,3,7,11,13,16,18,21,28,34,36,39,41,40,42,46,48,52,53,54	0.68	0.40	0.58	1.04	-0.31	-0.30	0.80	1.01	-0.62	0.80	-0.12	0.05	0.17	-0.33	0.53	-0.77	-0.72	**2.88**
263	1,3,7,11,13,16,18,21,28,34,36,39,41,40,42,47,50,54	-0.21	0.66	-0.27	-0.01	0.57	0.55	0.08	1.01	0.09	1.03	-1.40	-0.90	-0.17	-0.33	0.53	-0.77	-0.72	**-0.26**
264	1,3,7,11,13,16,18,21,28,34,36,39,41,40,42,49,53,54	-0.25	0.40	-0.29	-0.06	0.54	-0.30	-0.16	1.53	-0.49	0.91	-1.22	0.05	-0.20	-0.33	0.53	-0.77	-0.72	**-0.84**
265	1,3,7,11,13,16,18,21,28,34,36,39,41,43,47,46,48,51	1.00	0.66	0.94	1.51	-0.81	0.55	1.04	0.83	-0.74	0.84	0.21	1.01	0.66	-0.33	0.53	-0.77	-0.72	**6.40**
266	1,3,7,11,13,16,18,21,28,34,36,39,41,43,47,46,48,52,53,54	0.68	0.66	0.58	1.12	-0.27	-0.30	0.80	1.01	-0.62	0.84	-0.11	0.05	0.17	-0.33	0.53	-0.77	-0.72	**3.31**
267	1,3,7,11,13,16,18,21,28,34,36,39,41,43,47,49,53,54	-0.25	0.92	-0.29	0.02	0.58	-0.30	-0.16	1.53	-0.49	0.94	-1.22	0.05	-0.20	-0.33	0.53	-0.77	-0.72	**-0.15**
268	1,3,7,11,13,16,18,21,28,34,36,39,41,43,50,54	-0.35	0.40	-0.31	-0.10	0.52	-0.30	0.08	1.01	0.09	0.98	-1.46	-0.90	-0.24	-0.33	0.53	-0.77	-0.72	**-1.87**
269	1,3,7,11,13,16,18,21,28,34,36,39,44,55	-1.28	-0.90	0.04	-0.29	0.41	-0.73	-1.11	0.83	-0.17	0.96	-1.61	-0.90	-0.31	-0.33	0.53	-0.77	-0.72	**-6.35**
270	1,3,7,11,13,16,18,21,28,34,36,39,45,55	0.42	0.14	0.88	0.73	-0.08	1.41	0.08	1.40	1.16	1.77	-0.90	-0.90	0.57	-0.33	0.53	-0.77	-0.72	**5.39**
271	1,3,7,11,13,16,18,21,28,34,38,40,42,46,48,51	-0.29	-0.38	-0.19	1.14	0.48	0.98	0.32	1.05	-0.39	-1.16	1.23	1.01	-0.38	-0.33	0.53	-0.77	1.40	**4.26**
272	1,3,7,11,13,16,18,21,28,34,38,40,42,46,48,52,53,54	-0.62	-0.38	-0.55	0.76	1.02	0.13	0.08	1.23	-0.27	-1.16	0.91	0.05	-0.87	-0.33	0.53	-0.77	1.40	**1.18**
273	1,3,7,11,13,16,18,21,28,34,38,40,42,47,50,54	-1.50	-0.12	-1.40	-0.29	1.90	0.98	-0.64	1.23	0.44	-0.93	-0.38	-0.90	-1.20	-0.33	0.53	-0.77	1.40	**-1.96**
274	1,3,7,11,13,16,18,21,28,34,38,40,42,49,53,54	-1.55	-0.38	-1.42	-0.34	1.87	0.13	-0.87	1.75	-0.14	-1.05	-0.19	0.05	-1.24	-0.33	0.53	-0.77	1.40	**-2.55**
275	1,3,7,11,13,16,18,21,28,34,38,41,44,55	-1.03	-1.15	-0.67	-0.57	1.75	-0.30	-0.87	1.05	0.19	-1.00	0.10	-0.90	-0.72	-0.33	0.53	-0.77	1.40	**-3.31**
276	1,3,7,11,13,16,18,21,28,34,38,41,45,55	0.67	-0.12	0.17	0.45	1.25	1.84	0.32	1.63	1.51	-0.19	0.80	-0.90	0.16	-0.33	0.53	-0.77	1.40	**8.43**
277	1,3,7,11,13,16,18,21,28,34,38,43,47,46,48,51	-0.29	-0.64	-0.19	1.22	0.53	0.98	0.32	1.05	-0.39	-1.13	1.24	1.01	-0.38	-0.33	0.53	-0.77	1.40	**4.17**
278	1,3,7,11,13,16,18,21,28,34,38,43,47,46,48,52,53,54	-0.62	-0.64	-0.55	0.84	1.07	0.13	0.08	1.23	-0.27	-1.13	0.92	0.05	-0.86	-0.33	0.53	-0.77	1.40	**1.09**
279	1,3,7,11,13,16,18,21,28,34,38,43,47,49,53,54	-1.54	-0.38	-1.42	-0.26	1.92	0.13	-0.87	1.75	-0.14	-1.02	-0.19	0.05	-1.24	-0.33	0.53	-0.77	1.40	**-2.38**
280	1,3,7,11,13,16,18,21,28,34,38,43,50,54	-1.64	-0.90	-1.44	-0.38	1.85	0.13	-0.64	1.23	0.44	-0.98	-0.43	-0.90	-1.28	-0.33	0.53	-0.77	1.40	**-4.10**
281	1,3,7,11,13,16,20,23,26,30,32,46,47,50,54	0.96	0.66	0.19	-0.34	0.52	1.41	1.28	0.96	2.36	-0.17	0.87	-0.90	0.71	0.29	0.53	1.14	0.98	**11.45**
282	1,3,7,11,13,16,20,23,26,30,32,46,49,53,54	0.92	0.40	0.17	-0.39	0.49	0.55	1.04	1.48	1.78	-0.30	1.03	0.05	0.67	0.29	0.53	1.14	0.98	**10.84**
283	1,3,7,11,13,16,20,23,26,30,32,48,51	0.42	-0.12	0.92	-0.98	-1.46	1.41	1.75	0.78	1.53	-0.40	0.52	-0.90	1.18	0.29	0.53	1.14	0.98	**7.59**
284	1,3,7,11,13,16,20,23,26,30,32,48,52,53,54	0.09	-0.12	0.57	-1.37	-0.92	0.55	1.52	0.96	1.65	-0.40	0.20	-1.85	0.70	0.29	0.53	1.14	0.98	**4.51**
285	1,3,7,11,13,16,20,23,26,31,34,35,37,40,41,44,55	-0.86	-0.64	-0.70	-0.32	0.79	-0.73	-1.35	1.38	0.75	-0.79	0.07	-0.90	-0.82	-0.43	0.53	1.14	-0.72	**-3.62**
286	1,3,7,11,13,16,20,23,26,31,34,35,37,40,41,45,55	0.84	0.40	0.14	0.70	0.30	1.41	-0.16	1.95	2.08	0.02	0.77	-0.90	0.05	-0.43	0.53	1.14	-0.72	**8.12**
287	1,3,7,11,13,16,20,23,26,31,34,35,37,40,43,47,46,48,51	-0.12	0.40	-0.22	1.47	-0.43	0.55	-0.16	1.38	0.18	-0.91	1.20	1.01	-0.49	-0.43	0.53	1.14	-0.72	**4.38**
288	1,3,7,11,13,16,20,23,26,31,34,35,37,40,43,47,46,48,52,53,54	-0.45	0.40	-0.58	1.09	0.11	-0.30	-0.40	1.55	0.30	-0.91	0.88	0.05	-0.97	-0.43	0.53	1.14	-0.72	**1.29**
289	1,3,7,11,13,16,20,23,26,31,34,35,37,40,43,47,49,53,54	-1.37	0.66	-1.45	-0.01	0.96	-0.30	-1.35	2.07	0.43	-0.81	-0.23	0.05	-1.34	-0.43	0.53	1.14	-0.72	**-2.17**
290	1,3,7,11,13,16,20,23,26,31,34,35,37,40,43,50,54	-1.47	0.14	-1.47	-0.13	0.89	-0.30	-1.11	1.55	1.01	-0.77	-0.47	-0.90	-1.39	-0.43	0.53	1.14	-0.72	**-3.89**
291	1,3,7,11,13,16,20,23,26,31,34,35,37,42,46,48,51	-0.25	-0.38	-0.26	1.39	-0.47	-0.30	-0.16	1.38	0.18	-0.95	1.16	1.01	-0.56	-0.43	0.53	1.14	-0.72	**2.30**
292	1,3,7,11,13,16,20,23,26,31,34,35,37,42,46,48,52,53,54	-0.58	-0.38	-0.62	1.01	0.06	-1.16	-0.40	1.55	0.30	-0.95	0.84	0.05	-1.05	-0.43	0.53	1.14	-0.72	**-0.78**
293	1,3,7,11,13,16,20,23,26,31,34,35,37,42,47,50,54	-1.46	-0.12	-1.47	-0.04	0.94	-0.30	-1.11	1.55	1.01	-0.71	-0.45	-0.90	-1.38	-0.43	0.53	1.14	-0.72	**-3.92**
294	1,3,7,11,13,16,20,23,26,31,34,35,37,42,49,53,54	-1.51	-0.38	-1.48	-0.09	0.92	-1.16	-1.35	2.07	0.43	-0.84	-0.26	0.05	-1.42	-0.43	0.53	1.14	-0.72	**-4.51**
295	1,3,7,11,13,16,20,23,26,31,34,36,39,41,40,42,46,48,51	1.08	0.40	0.87	1.65	-1.09	-0.30	0.56	1.52	0.15	1.03	0.09	1.01	0.48	-0.43	0.53	1.14	-0.72	**7.96**
296	1,3,7,11,13,16,20,23,26,31,34,36,39,41,40,42,46,48,52,53,54	0.76	0.40	0.51	1.26	-0.55	-1.16	0.32	1.70	0.27	1.03	-0.23	0.05	0.00	-0.43	0.53	1.14	-0.72	**4.88**
297	1,3,7,11,13,16,20,23,26,31,34,36,39,41,40,42,47,50,54	-0.13	0.66	-0.34	0.22	0.33	-0.30	-0.40	1.70	0.98	1.26	-1.51	-0.90	-0.34	-0.43	0.53	1.14	-0.72	**1.74**
298	1,3,7,11,13,16,20,23,26,31,34,36,39,41,40,42,49,53,54	-0.17	0.40	-0.36	0.16	0.30	-1.16	-0.64	2.22	0.40	1.13	-1.33	0.05	-0.37	-0.43	0.53	1.14	-0.72	**1.15**
299	1,3,7,11,13,16,20,23,26,31,34,36,39,41,43,47,46,48,51	1.08	0.66	0.87	1.73	-1.05	-0.30	0.56	1.52	0.15	1.06	0.10	1.01	0.49	-0.43	0.53	1.14	-0.72	**8.39**
300	1,3,7,11,13,16,20,23,26,31,34,36,39,41,43,47,46,48,52,53,54	0.76	0.66	0.51	1.34	-0.51	-1.16	0.32	1.70	0.27	1.06	-0.22	0.05	0.00	-0.43	0.53	1.14	-0.72	**5.30**
301	1,3,7,11,13,16,20,23,26,31,34,36,39,41,43,47,49,53,54	-0.17	0.92	-0.36	0.24	0.34	-1.16	-0.64	2.22	0.40	1.16	-1.33	0.05	-0.37	-0.43	0.53	1.14	-0.72	**1.84**
302	1,3,7,11,13,16,20,23,26,31,34,36,39,41,43,50,54	-0.27	0.40	-0.38	0.13	0.28	-1.16	-0.40	1.70	0.98	1.21	-1.57	-0.90	-0.41	-0.43	0.53	1.14	-0.72	**0.12**
303	1,3,7,11,13,16,20,23,26,31,34,36,39,44,55	-1.20	-0.90	-0.03	-0.07	0.17	-1.59	-1.59	1.52	0.72	1.18	-1.72	-0.90	-0.48	-0.43	0.53	1.14	-0.72	**-4.36**
304	1,3,7,11,13,16,20,23,26,31,34,36,39,45,55	0.50	0.14	0.81	0.95	-0.32	0.55	-0.40	2.10	2.05	1.99	-1.01	-0.90	0.40	-0.43	0.53	1.14	-0.72	**7.38**
305	1,3,7,11,13,16,20,23,26,31,34,38,40,42,46,48,51	-0.21	-0.38	-0.26	1.36	0.24	0.13	-0.16	1.74	0.50	-0.93	1.12	1.01	-0.55	-0.43	0.53	1.14	1.40	**6.26**
306	1,3,7,11,13,16,20,23,26,31,34,38,40,42,46,48,52,53,54	-0.54	-0.38	-0.62	0.98	0.78	-0.73	-0.40	1.92	0.62	-0.93	0.80	0.05	-1.04	-0.43	0.53	1.14	1.40	**3.17**
307	1,3,7,11,13,16,20,23,26,31,34,38,40,42,47,50,54	-1.42	-0.12	-1.47	-0.07	1.66	0.13	-1.11	1.92	1.33	-0.70	-0.49	-0.90	-1.37	-0.43	0.53	1.14	1.40	**0.03**
308	1,3,7,11,13,16,20,23,26,31,34,38,40,42,49,53,54	-1.47	-0.38	-1.49	-0.12	1.63	-0.73	-1.35	2.44	0.75	-0.83	-0.30	0.05	-1.41	-0.43	0.53	1.14	1.40	**-0.55**
309	1,3,7,11,13,16,20,23,26,31,34,38,41,44,55	-0.96	-1.15	-0.74	-0.35	1.51	-1.16	-1.35	1.74	1.08	-0.78	-0.01	-0.90	-0.88	-0.43	0.53	1.14	1.40	**-1.32**
310	1,3,7,11,13,16,20,23,26,31,34,38,41,45,55	0.75	-0.12	0.10	0.67	1.01	0.98	-0.16	2.32	2.40	0.03	0.69	-0.90	-0.01	-0.43	0.53	1.14	1.40	**10.42**
311	1,3,7,11,13,16,20,23,26,31,34,38,43,47,46,48,51	-0.21	-0.64	-0.26	1.44	0.29	0.13	-0.16	1.74	0.50	-0.90	1.13	1.01	-0.55	-0.43	0.53	1.14	1.40	**6.17**
312	1,3,7,11,13,16,20,23,26,31,34,38,43,47,46,48,52,53,54	-0.54	-0.64	-0.62	1.06	0.83	-0.73	-0.40	1.92	0.62	-0.90	0.81	0.05	-1.03	-0.43	0.53	1.14	1.40	**3.08**
313	1,3,7,11,13,16,20,23,26,31,34,38,43,47,49,53,54	-1.46	-0.38	-1.48	-0.04	1.68	-0.73	-1.35	2.44	0.75	-0.80	-0.30	0.05	-1.40	-0.43	0.53	1.14	1.40	**-0.38**
314	1,3,7,11,13,16,20,23,26,31,34,38,43,50,54	-1.56	-0.90	-1.50	-0.16	1.61	-0.73	-1.11	1.92	1.33	-0.75	-0.54	-0.90	-1.45	-0.43	0.53	1.14	1.40	**-2.10**
315	1,3,7,11,13,16,20,23,26,33,37,40,41,44,55	-0.93	-1.67	-0.73	-0.34	0.43	-0.73	-1.11	1.38	0.45	-0.77	0.01	-0.90	-0.84	-0.43	0.53	1.14	-0.72	**-5.25**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
316	1,3,7,11,13,16,20,23,26,33,37,40,41,45,55	0.77	-0.64	0.11	0.67	-0.06	1.41	0.08	1.95	1.77	0.04	0.72	-0.90	0.03	-0.43	0.53	1.14	-0.72	**6.48**
317	1,3,7,11,13,16,20,23,26,33,37,40,43,47,46,48,51	-0.18	-0.64	-0.26	1.45	-0.79	0.55	0.08	1.38	-0.12	-0.90	1.14	1.01	-0.51	-0.43	0.53	1.14	-0.72	**2.74**
318	1,3,7,11,13,16,20,23,26,33,37,40,43,47,46,48,52,53,54	-0.51	-0.64	-0.61	1.07	-0.25	-0.30	-0.16	1.55	0.00	-0.90	0.83	0.05	-0.99	-0.43	0.53	1.14	-0.72	**-0.34**
319	1,3,7,11,13,16,20,23,26,33,37,40,43,47,49,53,54	-1.44	-0.38	-1.48	-0.03	0.60	-0.30	-1.11	2.07	0.12	-0.79	-0.28	0.05	-1.36	-0.43	0.53	1.14	-0.72	**-3.81**
320	1,3,7,11,13,16,20,23,26,33,37,40,43,50,54	-1.54	-0.90	-1.50	-0.15	0.54	-0.30	-0.87	1.55	0.71	-0.75	-0.52	-0.90	-1.41	-0.43	0.53	1.14	-0.72	**-5.53**
321	1,3,7,11,13,16,20,23,26,33,37,42,46,48,51	-0.32	-1.41	-0.29	1.37	-0.83	-0.30	0.08	1.38	-0.12	-0.93	1.11	1.01	-0.58	-0.43	0.53	1.14	-0.72	**0.67**
322	1,3,7,11,13,16,20,23,26,33,37,42,46,48,52,53,54	-0.64	-1.41	-0.65	0.99	-0.29	-1.16	-0.16	1.55	0.00	-0.93	0.79	0.05	-1.07	-0.43	0.53	1.14	-0.72	**-2.42**
323	1,3,7,11,13,16,20,23,26,33,37,42,47,50,54	-1.53	-1.15	-1.50	-0.06	0.59	-0.30	-0.87	1.55	0.71	-0.70	-0.50	-0.90	-1.40	-0.43	0.53	1.14	-0.72	**-5.56**
324	1,3,7,11,13,16,20,23,26,33,37,42,49,53,54	-1.57	-1.41	-1.52	-0.11	0.56	-1.16	-1.11	2.07	0.12	-0.83	-0.32	0.05	-1.44	-0.43	0.53	1.14	-0.72	**-6.14**
325	1,3,7,11,13,16,20,23,27,28,31,30,32,46,47,50,54	0.99	0.66	0.15	-0.31	0.73	1.41	1.28	0.96	2.00	0.20	0.61	-0.90	0.68	0.29	0.53	-0.77	0.98	**9.49**
326	1,3,7,11,13,16,20,23,27,28,31,30,32,46,49,53,54	0.95	0.40	0.13	-0.37	0.70	0.55	1.04	1.48	1.42	0.07	0.77	0.05	0.64	0.29	0.53	-0.77	0.98	**8.89**
327	1,3,7,11,13,16,20,23,27,28,31,30,32,48,51	0.45	-0.12	0.88	-0.96	-1.25	1.41	1.75	0.78	1.18	-0.03	0.27	-0.90	1.15	0.29	0.53	-0.77	0.98	**5.64**
328	1,3,7,11,13,16,20,23,27,28,31,30,32,48,52,53,54	0.12	-0.12	0.53	-1.34	-0.72	0.55	1.52	0.96	1.30	-0.03	-0.05	-1.85	0.66	0.29	0.53	-0.77	0.98	**2.55**
329	1,3,7,11,13,16,20,23,27,28,31,33,37,40,41,44,55	-0.89	-1.15	-0.77	-0.32	0.64	-0.73	-1.11	1.38	0.10	-0.40	-0.25	-0.90	-0.88	-0.43	0.53	-0.77	-0.72	**-6.69**
330	1,3,7,11,13,16,20,23,27,28,31,33,37,40,41,45,55	0.81	-0.12	0.07	0.70	0.15	1.41	0.08	1.95	1.42	0.41	0.46	-0.90	0.00	-0.43	0.53	-0.77	-0.72	**5.04**
331	1,3,7,11,13,16,20,23,27,28,31,33,37,40,43,47,46,48,51	-0.15	-0.12	-0.30	1.48	-0.58	0.55	0.08	1.38	-0.48	-0.53	0.89	1.01	-0.54	-0.43	0.53	-0.77	-0.72	**1.30**
332	1,3,7,11,13,16,20,23,27,28,31,33,37,40,43,47,46,48,52,53,54	-0.48	-0.12	-0.65	1.09	-0.04	-0.30	-0.16	1.55	-0.35	-0.53	0.57	0.05	-1.03	-0.43	0.53	-0.77	-0.72	**-1.78**
333	1,3,7,11,13,16,20,23,27,28,31,33,37,40,43,47,49,53,54	-1.40	0.14	-1.52	-0.01	0.81	-0.30	-1.11	2.07	-0.23	-0.42	-0.54	0.05	-1.40	-0.43	0.53	-0.77	-0.72	**-5.25**
334	1,3,7,11,13,16,20,23,27,28,31,33,37,40,43,50,54	-1.50	-0.38	-1.54	-0.13	0.74	-0.30	-0.87	1.55	0.35	-0.38	-0.78	-0.90	-1.44	-0.43	0.53	-0.77	-0.72	**-6.97**
335	1,3,7,11,13,16,20,23,27,28,31,33,37,42,46,48,51	-0.28	-0.90	-0.33	1.40	-0.62	-0.30	0.08	1.38	-0.48	-0.56	0.85	1.01	-0.61	-0.43	0.53	-0.77	-0.72	**-0.77**
336	1,3,7,11,13,16,20,23,27,28,31,33,37,42,46,48,52,53,54	-0.61	-0.90	-0.69	1.01	-0.09	-1.16	-0.16	1.55	-0.35	-0.56	0.53	0.05	-1.10	-0.43	0.53	-0.77	-0.72	**-3.86**
337	1,3,7,11,13,16,20,23,27,28,31,33,37,42,47,50,54	-1.49	-0.64	-1.54	-0.03	0.79	-0.30	-0.87	1.55	0.35	-0.33	-0.76	-0.90	-1.43	-0.43	0.53	-0.77	-0.72	**-7.00**
338	1,3,7,11,13,16,20,23,27,28,31,33,37,42,49,53,54	-1.54	-0.90	-1.56	-0.09	0.76	-1.16	-1.11	2.07	-0.23	-0.46	-0.57	0.05	-1.47	-0.43	0.53	-0.77	-0.72	**-7.58**
339	1,3,7,11,13,16,20,23,27,28,34,35,37,40,41,44,55	-0.92	-1.15	-0.77	-0.30	0.99	-0.73	-1.35	1.38	0.40	-0.45	-0.27	-0.90	-0.92	-0.43	0.53	-0.77	-0.72	**-6.39**
340	1,3,7,11,13,16,20,23,27,28,34,35,37,40,41,45,55	0.78	-0.12	0.07	0.72	0.50	1.41	-0.16	1.95	1.72	0.36	0.44	-0.90	-0.04	-0.43	0.53	-0.77	-0.72	**5.35**
341	1,3,7,11,13,16,20,23,27,28,34,35,37,40,43,47,46,48,51	-0.18	-0.12	-0.29	1.50	-0.22	0.55	-0.16	1.38	-0.17	-0.57	0.86	1.01	-0.58	-0.43	0.53	-0.77	-0.72	**1.61**
342	1,3,7,11,13,16,20,23,27,28,34,35,37,40,43,47,46,48,52,53,54	-0.50	-0.12	-0.65	1.11	0.31	-0.30	-0.40	1.55	-0.05	-0.57	0.54	0.05	-1.07	-0.43	0.53	-0.77	-0.72	**-1.47**
343	1,3,7,11,13,16,20,23,27,28,34,35,37,40,43,47,49,53,54	-1.43	0.14	-1.51	0.01	1.17	-0.30	-1.35	2.07	0.07	-0.47	-0.56	0.05	-1.44	-0.43	0.53	-0.77	-0.72	**-4.94**
344	1,3,7,11,13,16,20,23,27,28,34,35,37,40,43,50,54	-1.53	-0.38	-1.53	-0.10	1.10	-0.30	-1.11	1.55	0.65	-0.42	-0.80	-0.90	-1.48	-0.43	0.53	-0.77	-0.72	**-6.66**
345	1,3,7,11,13,16,20,23,27,28,34,35,37,42,46,48,51	-0.31	-0.90	-0.33	1.42	-0.27	-0.30	-0.16	1.38	-0.17	-0.60	0.82	1.01	-0.66	-0.43	0.53	-0.77	-0.72	**-0.46**
346	1,3,7,11,13,16,20,23,27,28,34,35,37,42,46,48,52,53,54	-0.64	-0.90	-0.68	1.03	0.27	-1.16	-0.40	1.55	-0.05	-0.60	0.51	0.05	-1.14	-0.43	0.53	-0.77	-0.72	**-3.55**
347	1,3,7,11,13,16,20,23,27,28,34,35,37,42,47,50,54	-1.52	-0.64	-1.53	-0.01	1.15	-0.30	-1.11	1.55	0.65	-0.37	-0.78	-0.90	-1.48	-0.43	0.53	-0.77	-0.72	**-6.69**
348	1,3,7,11,13,16,20,23,27,28,34,35,37,42,49,53,54	-1.56	-0.90	-1.55	-0.06	1.12	-1.16	-1.35	2.07	0.07	-0.50	-0.60	0.05	-1.52	-0.43	0.53	-0.77	-0.72	**-7.27**
349	1,3,7,11,13,16,20,23,27,28,34,36,39,41,40,42,46,48,51	1.02	-0.12	0.80	1.68	-0.88	-0.30	0.56	1.52	-0.20	1.37	-0.24	1.01	0.38	-0.43	0.53	-0.77	-0.72	**5.20**
350	1,3,7,11,13,16,20,23,27,28,34,36,39,41,40,42,46,48,52,53,54	0.70	-0.12	0.44	1.29	-0.35	-1.16	0.32	1.70	-0.08	1.37	-0.56	0.05	-0.10	-0.43	0.53	-0.77	-0.72	**2.11**
351	1,3,7,11,13,16,20,23,27,28,34,36,39,41,40,42,47,50,54	-0.19	0.14	-0.40	0.24	0.53	-0.30	-0.40	1.70	0.62	1.60	-1.85	-0.90	-0.44	-0.43	0.53	-0.77	-0.72	**-1.03**
352	1,3,7,11,13,16,20,23,27,28,34,36,39,41,40,42,49,53,54	-0.23	-0.12	-0.42	0.19	0.50	-1.16	-0.64	2.22	0.04	1.48	-1.67	0.05	-0.47	-0.43	0.53	-0.77	-0.72	**-1.62**
353	1,3,7,11,13,16,20,23,27,28,34,36,39,41,43,47,46,48,51	1.02	0.14	0.80	1.76	-0.84	-0.30	0.56	1.52	-0.20	1.40	-0.24	1.01	0.39	-0.43	0.53	-0.77	-0.72	**5.62**
354	1,3,7,11,13,16,20,23,27,28,34,36,39,41,43,47,46,48,52,53,54	0.70	0.14	0.45	1.37	-0.30	-1.16	0.32	1.70	-0.08	1.40	-0.56	0.05	-0.10	-0.43	0.53	-0.77	-0.72	**2.54**
355	1,3,7,11,13,16,20,23,27,28,34,36,39,41,43,47,49,53,54	-0.23	0.40	-0.42	0.27	0.55	-1.16	-0.64	2.22	0.04	1.51	-1.66	0.05	-0.47	-0.43	0.53	-0.77	-0.72	**-0.93**
356	1,3,7,11,13,16,20,23,27,28,34,36,39,41,43,50,54	-0.33	-0.12	-0.44	0.15	0.48	-1.16	-0.40	1.70	0.62	1.55	-1.90	-0.90	-0.51	-0.43	0.53	-0.77	-0.72	**-2.65**
357	1,3,7,11,13,16,20,23,27,28,34,36,39,44,55	-1.26	-1.41	-0.09	-0.04	0.38	-1.59	-1.59	1.52	0.37	1.53	-2.05	-0.90	-0.57	-0.43	0.53	-0.77	-0.72	**-7.12**
358	1,3,7,11,13,16,20,23,27,28,34,36,39,45,55	0.44	-0.38	0.75	0.98	-0.11	0.55	-0.40	2.10	1.69	2.34	-1.35	-0.90	0.30	-0.43	0.53	-0.77	-0.72	**4.61**
359	1,3,7,11,13,16,20,23,27,28,34,38,40,42,46,48,51	-0.27	-0.90	-0.33	1.39	0.45	0.13	-0.16	1.74	0.15	-0.59	0.78	1.01	-0.65	-0.43	0.53	-0.77	1.40	**3.49**
360	1,3,7,11,13,16,20,23,27,28,34,38,40,42,46,48,52,53,54	-0.60	-0.90	-0.68	1.00	0.99	-0.73	-0.40	1.92	0.27	-0.59	0.47	0.05	-1.14	-0.43	0.53	-0.77	1.40	**0.41**
361	1,3,7,11,13,16,20,23,27,28,34,38,40,42,47,50,54	-1.48	-0.64	-1.53	-0.04	1.87	0.13	-1.11	1.92	0.98	-0.36	-0.82	-0.90	-1.47	-0.43	0.53	-0.77	1.40	**-2.73**
362	1,3,7,11,13,16,20,23,27,28,34,38,40,42,49,53,54	-1.53	-0.90	-1.55	-0.10	1.84	-0.73	-1.35	2.44	0.40	-0.49	-0.64	0.05	-1.51	-0.43	0.53	-0.77	1.40	**-3.32**
363	1,3,7,11,13,16,20,23,27,28,34,38,41,44,55	-1.01	-1.67	-0.80	-0.33	1.71	-1.16	-1.35	1.74	0.72	-0.43	-0.35	-0.90	-0.98	-0.43	0.53	-0.77	1.40	**-4.08**
364	1,3,7,11,13,16,20,23,27,28,34,38,41,45,55	0.69	-0.64	0.04	0.69	1.22	0.98	-0.16	2.32	2.05	0.38	0.36	-0.90	-0.11	-0.43	0.53	-0.77	1.40	**7.66**
365	1,3,7,11,13,16,20,23,27,28,34,38,43,47,46,48,51	-0.27	-1.15	-0.33	1.47	0.49	0.13	-0.16	1.74	0.15	-0.56	0.79	1.01	-0.65	-0.43	0.53	-0.77	1.40	**3.40**
366	1,3,7,11,13,16,20,23,27,28,34,38,43,47,46,48,52,53,54	-0.60	-1.15	-0.68	1.08	1.03	-0.73	-0.40	1.92	0.27	-0.56	0.47	0.05	-1.13	-0.43	0.53	-0.77	1.40	**0.32**
367	1,3,7,11,13,16,20,23,27,28,34,38,43,47,49,53,54	-1.52	-0.90	-1.55	-0.02	1.88	-0.73	-1.35	2.44	0.40	-0.45	-0.63	0.05	-1.50	-0.43	0.53	-0.77	1.40	**-3.15**
368	1,3,7,11,13,16,20,23,27,28,34,38,43,50,54	-1.62	-1.41	-1.57	-0.13	1.82	-0.73	-1.11	1.92	0.98	-0.41	-0.88	-0.90	-1.55	-0.43	0.53	-0.77	1.40	**-4.87**
369	1,3,7,11,17,18,20,23,26,30,32,46,47,50,54	0.97	0.66	0.20	-0.38	0.23	1.41	1.52	0.96	2.36	-0.17	0.84	-0.90	0.72	-0.33	0.53	1.14	0.98	**10.73**
370	1,3,7,11,17,18,20,23,26,30,32,46,49,53,54	0.92	0.40	0.18	-0.43	0.20	0.55	1.28	1.48	1.78	-0.30	1.01	0.05	0.69	-0.33	0.53	1.14	0.98	**10.12**
371	1,3,7,11,17,18,20,23,26,30,32,48,51	0.42	-0.12	0.92	-1.03	-1.75	1.41	1.99	0.78	1.53	-0.40	0.50	-0.90	1.20	-0.33	0.53	1.14	0.98	**6.87**
372	1,3,7,11,17,18,20,23,26,30,32,48,52,53,54	0.10	-0.12	0.57	-1.41	-1.21	0.55	1.75	0.96	1.65	-0.40	0.18	-1.85	0.71	-0.33	0.53	1.14	0.98	**3.79**
373	1,3,7,11,17,18,20,23,26,31,34,35,37,40,41,44,55	-0.86	-0.64	-0.70	-0.36	0.50	-0.73	-1.11	1.38	0.75	-0.79	0.04	-0.90	-0.81	-1.06	0.53	1.14	-0.72	**-4.34**
374	1,3,7,11,17,18,20,23,26,31,34,35,37,40,41,45,55	0.84	0.40	0.14	0.66	0.01	1.41	0.08	1.95	2.08	0.02	0.75	-0.90	0.07	-1.06	0.53	1.14	-0.72	**7.40**
375	1,3,7,11,17,18,20,23,26,31,34,35,37,40,43,47,46,48,51	-0.11	0.40	-0.22	1.43	-0.72	0.55	0.08	1.38	0.18	-0.91	1.17	1.01	-0.47	-1.06	0.53	1.14	-0.72	**3.66**
376	1,3,7,11,17,18,20,23,26,31,34,35,37,40,43,47,46,48,52,53,54	-0.44	0.40	-0.58	1.05	-0.18	-0.30	-0.16	1.55	0.30	-0.91	0.85	0.05	-0.96	-1.06	0.53	1.14	-0.72	**0.57**
377	1,3,7,11,17,18,20,23,26,31,34,35,37,40,43,47,49,53,54	-1.37	0.66	-1.45	-0.05	0.67	-0.30	-1.11	2.07	0.43	-0.81	-0.25	0.05	-1.33	-1.06	0.53	1.14	-0.72	**-2.89**
378	1,3,7,11,17,18,20,23,26,31,34,35,37,40,43,50,54	-1.47	0.14	-1.47	-0.17	0.60	-0.30	-0.87	1.55	1.01	-0.77	-0.49	-0.90	-1.37	-1.06	0.53	1.14	-0.72	**-4.61**

Table F-2: Raw Scores for All Routes

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
379	1,3,7,11,17,18,20,23,26,31,34,35,37,42,46,48,51	-0.24	-0.38	-0.26	1.35	-0.76	-0.30	0.08	1.38	0.18	-0.95	1.14	1.01	-0.55	-1.06	0.53	1.14	-0.72	**1.58**
380	1,3,7,11,17,18,20,23,26,31,34,35,37,42,46,48,52,53,54	-0.57	-0.38	-0.62	0.97	-0.23	-1.16	-0.16	1.55	0.30	-0.95	0.82	0.05	-1.03	-1.06	0.53	1.14	-0.72	**-1.50**
381	1,3,7,11,17,18,20,23,26,31,34,35,37,42,47,50,54	-1.46	-0.12	-1.46	-0.08	0.65	-0.30	-0.87	1.55	1.01	-0.71	-0.47	-0.90	-1.37	-1.06	0.53	1.14	-0.72	**-4.64**
382	1,3,7,11,17,18,20,23,26,31,34,35,37,42,49,53,54	-1.50	-0.38	-1.48	-0.13	0.63	-1.16	-1.11	2.07	0.43	-0.84	-0.29	0.05	-1.40	-1.06	0.53	1.14	-0.72	**-5.23**
383	1,3,7,11,17,18,20,23,26,31,34,36,39,41,40,42,46,48,51	1.09	0.40	0.87	1.61	-1.38	-0.30	0.80	1.52	0.15	1.03	0.07	1.01	0.49	-1.06	0.53	1.14	-0.72	**7.24**
384	1,3,7,11,17,18,20,23,26,31,34,36,39,41,40,42,46,48,52,53,54	0.76	0.40	0.51	1.22	-0.84	-1.16	0.56	1.70	0.27	1.03	-0.25	0.05	0.01	-1.06	0.53	1.14	-0.72	**4.15**
385	1,3,7,11,17,18,20,23,26,31,34,36,39,41,40,42,47,50,54	-0.12	0.66	-0.34	0.17	0.04	-0.30	-0.16	1.70	0.98	1.26	-1.54	-0.90	-0.33	-1.06	0.53	1.14	-0.72	**1.02**
386	1,3,7,11,17,18,20,23,26,31,34,36,39,41,40,42,49,53,54	-0.17	0.40	-0.36	0.12	0.01	-1.16	-0.40	2.22	0.40	1.13	-1.35	0.05	-0.36	-1.06	0.53	1.14	-0.72	**0.43**
387	1,3,7,11,17,18,20,23,26,31,34,36,39,41,43,47,46,48,51	1.09	0.66	0.87	1.69	-1.34	-0.30	0.80	1.52	0.15	1.06	0.07	1.01	0.50	-1.06	0.53	1.14	-0.72	**7.67**
388	1,3,7,11,17,18,20,23,26,31,34,36,39,41,43,47,46,48,52,53,54	0.76	0.66	0.51	1.30	-0.80	-1.16	0.56	1.70	0.27	1.06	-0.24	0.05	0.01	-1.06	0.53	1.14	-0.72	**4.58**
389	1,3,7,11,17,18,20,23,26,31,34,36,39,41,43,47,49,53,54	-0.16	0.92	-0.35	0.20	0.05	-1.16	-0.40	2.22	0.40	1.16	-1.35	0.05	-0.36	-1.06	0.53	1.14	-0.72	**1.12**
390	1,3,7,11,17,18,20,23,26,31,34,36,39,41,43,50,54	-0.26	0.40	-0.37	0.08	-0.01	-1.16	-0.16	1.70	0.98	1.21	-1.59	-0.90	-0.40	-1.06	0.53	1.14	-0.72	**-0.60**
391	1,3,7,11,17,18,20,23,26,31,34,36,39,44,55	-1.20	-0.90	-0.02	-0.11	-0.12	-1.59	-1.35	1.52	0.72	1.18	-1.74	-0.90	-0.46	-1.06	0.53	1.14	-0.72	**-5.08**
392	1,3,7,11,17,18,20,23,26,31,34,36,39,45,55	0.50	0.14	0.82	0.91	-0.61	0.55	-0.16	2.10	2.05	1.99	-1.04	-0.90	0.41	-1.06	0.53	1.14	-0.72	**6.66**
393	1,3,7,11,17,18,20,23,26,31,34,38,40,42,46,48,51	-0.21	-0.38	-0.26	1.32	-0.05	0.13	0.08	1.74	0.50	-0.93	1.10	1.01	-0.54	-1.06	0.53	1.14	1.40	**5.54**
394	1,3,7,11,17,18,20,23,26,31,34,38,40,42,46,48,52,53,54	-0.53	-0.38	-0.62	0.94	0.49	-0.73	-0.16	1.92	0.62	-0.93	0.78	0.05	-1.02	-1.06	0.53	1.14	1.40	**2.45**
395	1,3,7,11,17,18,20,23,26,31,34,38,40,42,47,50,54	-1.42	-0.12	-1.46	-0.11	1.37	0.13	-0.87	1.92	1.33	-0.70	-0.51	-0.90	-1.36	-1.06	0.53	1.14	1.40	**-0.69**
396	1,3,7,11,17,18,20,23,26,31,34,38,40,42,49,53,54	-1.46	-0.38	-1.48	-0.16	1.34	-0.73	-1.11	2.44	0.75	-0.83	-0.33	0.05	-1.40	-1.06	0.53	1.14	1.40	**-1.27**
397	1,3,7,11,17,18,20,23,26,31,34,38,41,44,55	-0.95	-1.15	-0.73	-0.39	1.22	-1.16	-1.11	1.74	1.08	-0.78	-0.04	-0.90	-0.87	-1.06	0.53	1.14	1.40	**-2.04**
398	1,3,7,11,17,18,20,23,26,31,34,38,41,45,55	0.75	-0.12	0.11	0.63	0.72	0.98	0.08	2.32	2.40	0.03	0.67	-0.90	0.00	-1.06	0.53	1.14	1.40	**9.70**
399	1,3,7,11,17,18,20,23,26,31,34,38,43,47,46,48,51	-0.20	-0.64	-0.26	1.40	0.00	0.13	0.08	1.74	0.50	-0.90	1.10	1.01	-0.54	-1.06	0.53	1.14	1.40	**5.45**
400	1,3,7,11,17,18,20,23,26,31,34,38,43,47,46,48,52,53,54	-0.53	-0.64	-0.62	1.02	0.54	-0.73	-0.16	1.92	0.62	-0.90	0.78	0.05	-1.02	-1.06	0.53	1.14	1.40	**2.36**
401	1,3,7,11,17,18,20,23,26,31,34,38,43,47,49,53,54	-1.46	-0.38	-1.48	-0.08	1.39	-0.73	-1.11	2.44	0.75	-0.80	-0.32	0.05	-1.39	-1.06	0.53	1.14	1.40	**-1.10**
402	1,3,7,11,17,18,20,23,26,31,34,38,43,50,54	-1.56	-0.90	-1.50	-0.20	1.32	-0.73	-0.87	1.92	1.33	-0.75	-0.56	-0.90	-1.44	-1.06	0.53	1.14	1.40	**-2.82**
403	1,3,7,11,17,18,20,23,26,33,37,40,41,44,55	-0.92	-1.67	-0.73	-0.38	0.14	-0.73	-0.87	1.38	0.45	-0.77	-0.01	-0.90	-0.83	-1.06	0.53	1.14	-0.72	**-5.97**
404	1,3,7,11,17,18,20,23,26,33,37,40,41,45,55	0.78	-0.64	0.11	0.63	-0.35	1.41	0.32	1.95	1.77	0.04	0.70	-0.90	0.05	-1.06	0.53	1.14	-0.72	**5.76**
405	1,3,7,11,17,18,20,23,26,33,37,40,43,47,46,48,51	-0.18	-0.64	-0.25	1.41	-1.08	0.55	0.32	1.38	-0.12	-0.90	1.12	1.01	-0.49	-1.06	0.53	1.14	-0.72	**2.02**
406	1,3,7,11,17,18,20,23,26,33,37,40,43,47,46,48,52,53,54	-0.50	-0.64	-0.61	1.03	-0.54	-0.30	0.08	1.55	0.00	-0.90	0.80	0.05	-0.98	-1.06	0.53	1.14	-0.72	**-1.06**
407	1,3,7,11,17,18,20,23,26,33,37,40,43,47,49,53,54	-1.43	-0.38	-1.48	-0.07	0.31	-0.30	-0.87	2.07	0.12	-0.79	-0.30	0.05	-1.35	-1.06	0.53	1.14	-0.72	**-4.53**
408	1,3,7,11,17,18,20,23,26,33,37,40,43,50,54	-1.53	-0.90	-1.50	-0.19	0.25	-0.30	-0.64	1.55	0.71	-0.75	-0.54	-0.90	-1.39	-1.06	0.53	1.14	-0.72	**-6.25**
409	1,3,7,11,17,18,20,23,26,33,37,42,46,48,51	-0.31	-1.41	-0.29	1.33	-1.12	-0.30	0.32	1.38	-0.12	-0.93	1.08	1.01	-0.57	-1.06	0.53	1.14	-0.72	**-0.05**
410	1,3,7,11,17,18,20,23,26,33,37,42,46,48,52,53,54	-0.64	-1.41	-0.65	0.95	-0.58	-1.16	0.08	1.55	0.00	-0.93	0.76	0.05	-1.05	-1.06	0.53	1.14	-0.72	**-3.14**
411	1,3,7,11,17,18,20,23,26,33,37,42,47,50,54	-1.52	-1.15	-1.50	-0.10	0.30	-0.30	-0.64	1.55	0.71	-0.70	-0.52	-0.90	-1.39	-1.06	0.53	1.14	-0.72	**-6.28**
412	1,3,7,11,17,18,20,23,26,33,37,42,49,53,54	-1.56	-1.41	-1.51	-0.15	0.27	-1.16	-0.87	2.07	0.12	-0.83	-0.34	0.05	-1.42	-1.06	0.53	1.14	-0.72	**-6.86**
413	1,3,7,11,17,18,20,23,27,28,31,30,32,46,47,50,54	1.00	0.66	0.15	-0.35	0.44	1.41	1.52	0.96	2.00	0.20	0.59	-0.90	0.69	-0.33	0.53	-0.77	0.98	**8.77**
414	1,3,7,11,17,18,20,23,27,28,31,30,32,46,49,53,54	0.96	0.40	0.14	-0.41	0.41	0.55	1.28	1.48	1.42	0.07	0.75	0.05	0.65	-0.33	0.53	-0.77	0.98	**8.17**
415	1,3,7,11,17,18,20,23,27,28,31,30,32,48,51	0.46	-0.12	0.88	-1.00	-1.54	1.41	1.99	0.78	1.18	-0.03	0.24	-0.90	1.16	-0.33	0.53	-0.77	0.98	**4.92**
416	1,3,7,11,17,18,20,23,27,28,31,30,32,48,52,53,54	0.13	-0.12	0.53	-1.39	-1.01	0.55	1.75	0.96	1.30	-0.03	-0.08	-1.85	0.68	-0.33	0.53	-0.77	0.98	**1.83**
417	1,3,7,11,17,18,20,23,27,28,31,33,37,40,41,44,55	-0.89	-1.15	-0.77	-0.36	0.35	-0.73	-0.87	1.38	0.10	-0.40	-0.27	-0.90	-0.86	-1.06	0.53	-0.77	-0.72	**-7.41**
418	1,3,7,11,17,18,20,23,27,28,31,33,37,40,41,45,55	0.81	-0.12	0.07	0.66	-0.15	1.41	0.32	1.95	1.42	0.41	0.44	-0.90	0.01	-1.06	0.53	-0.77	-0.72	**4.32**
419	1,3,7,11,17,18,20,23,27,28,31,33,37,40,43,47,46,48,51	-0.14	-0.12	-0.29	1.44	-0.87	0.55	0.32	1.38	-0.48	-0.53	0.86	1.01	-0.53	-1.06	0.53	-0.77	-0.72	**0.58**
420	1,3,7,11,17,18,20,23,27,28,31,33,37,40,43,47,46,48,52,53,54	-0.47	-0.12	-0.65	1.05	-0.33	-0.30	0.08	1.55	-0.35	-0.53	0.54	0.05	-1.01	-1.06	0.53	-0.77	-0.72	**-2.50**
421	1,3,7,11,17,18,20,23,27,28,31,33,37,40,43,47,49,53,54	-1.40	0.14	-1.52	-0.05	0.52	-0.30	-0.87	2.07	-0.23	-0.42	-0.56	0.05	-1.38	-1.06	0.53	-0.77	-0.72	**-5.97**
422	1,3,7,11,17,18,20,23,27,28,31,33,37,40,43,50,54	-1.50	-0.38	-1.54	-0.17	0.45	-0.30	-0.64	1.55	0.35	-0.38	-0.80	-0.90	-1.43	-1.06	0.53	-0.77	-0.72	**-7.69**
423	1,3,7,11,17,18,20,23,27,28,31,33,37,42,46,48,51	-0.27	-0.90	-0.33	1.36	-0.92	-0.30	0.32	1.38	-0.48	-0.56	0.83	1.01	-0.60	-1.06	0.53	-0.77	-0.72	**-1.49**
424	1,3,7,11,17,18,20,23,27,28,31,33,37,42,46,48,52,53,54	-0.60	-0.90	-0.69	0.97	-0.38	-1.16	0.08	1.55	-0.35	-0.56	0.51	0.05	-1.09	-1.06	0.53	-0.77	-0.72	**-4.58**
425	1,3,7,11,17,18,20,23,27,28,31,33,37,42,47,50,54	-1.49	-0.64	-1.54	-0.08	0.50	-0.30	-0.64	1.55	0.35	-0.33	-0.78	-0.90	-1.42	-1.06	0.53	-0.77	-0.72	**-7.72**
426	1,3,7,11,17,18,20,23,27,28,31,33,37,42,49,53,54	-1.53	-0.90	-1.56	-0.13	0.47	-1.16	-0.87	2.07	-0.23	-0.46	-0.60	0.05	-1.46	-1.06	0.53	-0.77	-0.72	**-8.30**
427	1,3,7,11,17,18,20,23,27,28,34,35,37,40,41,44,55	-0.92	-1.15	-0.76	-0.34	0.70	-0.73	-1.11	1.38	0.40	-0.45	-0.29	-0.90	-0.91	-1.06	0.53	-0.77	-0.72	**-7.11**
428	1,3,7,11,17,18,20,23,27,28,34,35,37,40,41,45,55	0.79	-0.12	0.08	0.68	0.21	1.41	0.08	1.95	1.72	0.36	0.41	-0.90	-0.03	-1.06	0.53	-0.77	-0.72	**4.63**
429	1,3,7,11,17,18,20,23,27,28,34,35,37,40,43,47,46,48,51	-0.17	-0.12	-0.29	1.46	-0.51	0.55	0.08	1.38	-0.17	-0.57	0.84	1.01	-0.57	-1.06	0.53	-0.77	-0.72	**0.89**
430	1,3,7,11,17,18,20,23,27,28,34,35,37,40,43,47,46,48,52,53,54	-0.50	-0.12	-0.64	1.07	0.02	-0.30	-0.16	1.55	-0.05	-0.57	0.52	0.05	-1.06	-1.06	0.53	-0.77	-0.72	**-2.19**
431	1,3,7,11,17,18,20,23,27,28,34,35,37,40,43,47,49,53,54	-1.42	0.14	-1.51	-0.03	0.88	-0.30	-1.11	2.07	0.07	-0.47	-0.59	0.05	-1.43	-1.06	0.53	-0.77	-0.72	**-5.66**
432	1,3,7,11,17,18,20,23,27,28,34,35,37,40,43,50,54	-1.52	-0.38	-1.53	-0.14	0.81	-0.30	-0.87	1.55	0.65	-0.42	-0.83	-0.90	-1.47	-1.06	0.53	-0.77	-0.72	**-7.38**
433	1,3,7,11,17,18,20,23,27,28,34,35,37,42,46,48,51	-0.30	-0.90	-0.33	1.38	-0.56	-0.30	0.08	1.38	-0.17	-0.60	0.80	1.01	-0.65	-1.06	0.53	-0.77	-0.72	**-1.18**
434	1,3,7,11,17,18,20,23,27,28,34,35,37,42,46,48,52,53,54	-0.63	-0.90	-0.68	0.99	-0.02	-1.16	-0.16	1.55	-0.05	-0.60	0.48	0.05	-1.13	-1.06	0.53	-0.77	-0.72	**-4.27**
435	1,3,7,11,17,18,20,23,27,28,34,35,37,42,47,50,54	-1.51	-0.64	-1.53	-0.05	0.86	-0.30	-0.87	1.55	0.65	-0.37	-0.81	-0.90	-1.47	-1.06	0.53	-0.77	-0.72	**-7.41**
436	1,3,7,11,17,18,20,23,27,28,34,35,37,42,49,53,54	-1.56	-0.90	-1.55	-0.11	0.83	-1.16	-1.11	2.07	0.07	-0.50	-0.62	0.05	-1.50	-1.06	0.53	-0.77	-0.72	**-7.99**
437	1,3,7,11,17,18,20,23,27,28,34,36,39,41,40,42,46,48,51	1.03	-0.12	0.80	1.64	-1.18	-0.30	0.80	1.52	-0.20	1.37	-0.27	1.01	0.40	-1.06	0.53	-0.77	-0.72	**4.48**
438	1,3,7,11,17,18,20,23,27,28,34,36,39,41,40,42,46,48,52,53,54	0.70	-0.12	0.45	1.25	-0.64	-1.16	0.56	1.70	-0.08	1.37	-0.59	0.05	-0.09	-1.06	0.53	-0.77	-0.72	**1.39**
439	1,3,7,11,17,18,20,23,27,28,34,36,39,41,40,42,47,50,54	-0.18	0.14	-0.40	0.20	0.24	-0.30	-0.16	1.70	0.62	1.60	-1.87	-0.90	-0.42	-1.06	0.53	-0.77	-0.72	**-1.75**
440	1,3,7,11,17,18,20,23,27,28,34,36,39,41,40,42,49,53,54	-0.22	-0.12	-0.42	0.15	0.21	-1.16	-0.40	2.22	0.04	1.48	-1.69	0.05	-0.46	-1.06	0.53	-0.77	-0.72	**-2.34**
441	1,3,7,11,17,18,20,23,27,28,34,36,39,41,43,47,46,48,51	1.03	0.14	0.80	1.72	-1.13	-0.30	0.80	1.52	-0.20	1.40	-0.26	1.01	0.40	-1.06	0.53	-0.77	-0.72	**4.90**

Westar Energy- JEC to East Manhattan
345/230 kV Transmission Line Project
Table F-2: Raw Scores for All Routes

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
442	1,3,7,11,17,18,20,23,27,28,34,36,39,41,43,47,46,48,52,53,54	0.71	0.14	0.45	1.33	-0.59	-1.16	0.56	1.70	-0.08	1.40	-0.58	0.05	-0.08	-1.06	0.53	-0.77	-0.72	**1.82**
443	1,3,7,11,17,18,20,23,27,28,34,36,39,41,43,47,49,53,54	-0.22	0.40	-0.42	0.23	0.26	-1.16	-0.40	2.22	0.04	1.51	-1.68	0.05	-0.46	-1.06	0.53	-0.77	-0.72	**-1.65**
444	1,3,7,11,17,18,20,23,27,28,34,36,39,41,43,50,54	-0.32	-0.12	-0.44	0.11	0.19	-1.16	-0.16	1.70	0.62	1.55	-1.93	-0.90	-0.50	-1.06	0.53	-0.77	-0.72	**-3.37**
445	1,3,7,11,17,18,20,23,27,28,34,36,39,44,55	-1.26	-1.41	-0.09	-0.08	0.09	-1.59	-1.35	1.52	0.37	1.53	-2.08	-0.90	-0.56	-1.06	0.53	-0.77	-0.72	**-7.84**
446	1,3,7,11,17,18,20,23,27,28,34,36,39,45,55	0.45	-0.38	0.75	0.94	-0.41	0.55	-0.16	2.10	1.69	2.34	-1.37	-0.90	0.31	-1.06	0.53	-0.77	-0.72	**3.89**
447	1,3,7,11,17,18,20,23,27,28,34,38,40,42,46,48,51	-0.26	-0.90	-0.33	1.35	0.16	0.13	0.08	1.74	0.15	-0.59	0.76	1.01	-0.64	-1.06	0.53	-0.77	1.40	**2.77**
448	1,3,7,11,17,18,20,23,27,28,34,38,40,42,46,48,52,53,54	-0.59	-0.90	-0.68	0.96	0.70	-0.73	-0.16	1.92	0.27	-0.59	0.44	0.05	-1.12	-1.06	0.53	-0.77	1.40	**-0.31**
449	1,3,7,11,17,18,20,23,27,28,34,38,40,42,47,50,54	-1.47	-0.64	-1.53	-0.08	1.58	0.13	-0.87	1.92	0.98	-0.36	-0.85	-0.90	-1.46	-1.06	0.53	-0.77	1.40	**-3.45**
450	1,3,7,11,17,18,20,23,27,28,34,38,40,42,49,53,54	-1.52	-0.90	-1.55	-0.14	1.55	-0.73	-1.11	2.44	0.40	-0.49	-0.66	0.05	-1.49	-1.06	0.53	-0.77	1.40	**-4.04**
451	1,3,7,11,17,18,20,23,27,28,34,38,41,44,55	-1.01	-1.67	-0.80	-0.37	1.42	-1.16	-1.11	1.74	0.72	-0.43	-0.37	-0.90	-0.97	-1.06	0.53	-0.77	1.40	**-4.80**
452	1,3,7,11,17,18,20,23,27,28,34,38,41,45,55	0.69	-0.64	0.04	0.65	0.93	0.98	0.08	2.32	2.05	0.38	0.33	-0.90	-0.09	-1.06	0.53	-0.77	1.40	**6.93**
453	1,3,7,11,17,18,20,23,27,28,34,38,43,47,46,48,51	-0.26	-1.15	-0.32	1.43	0.20	0.13	0.08	1.74	0.15	-0.56	0.77	1.01	-0.63	-1.06	0.53	-0.77	1.40	**2.68**
454	1,3,7,11,17,18,20,23,27,28,34,38,43,47,46,48,52,53,54	-0.59	-1.15	-0.68	1.04	0.74	-0.73	-0.16	1.92	0.27	-0.56	0.45	0.05	-1.12	-1.06	0.53	-0.77	1.40	**-0.40**
455	1,3,7,11,17,18,20,23,27,28,34,38,43,47,49,53,54	-1.52	-0.90	-1.55	-0.06	1.59	-0.73	-1.11	2.44	0.40	-0.45	-0.66	0.05	-1.49	-1.06	0.53	-0.77	1.40	**-3.87**
456	1,3,7,11,17,18,20,23,27,28,34,38,43,50,54	-1.62	-1.41	-1.57	-0.17	1.53	-0.73	-0.87	1.92	0.98	-0.41	-0.90	-0.90	-1.53	-1.06	0.53	-0.77	1.40	**-5.59**
457	1,3,7,11,17,19,22,24,29,36,35,37,40,41,44,55	0.65	-0.38	0.58	-0.85	-0.39	0.13	0.08	0.33	0.18	-0.57	0.43	-0.90	1.01	1.02	0.53	-0.77	-0.72	**0.35**
458	1,3,7,11,17,19,22,24,29,36,35,37,40,41,45,55	2.35	0.66	1.42	0.17	-0.88	2.27	1.28	0.90	1.50	0.24	1.14	-0.90	1.89	1.02	0.53	-0.77	-0.72	**12.09**
459	1,3,7,11,17,19,22,24,29,36,35,37,40,43,47,46,48,51	1.39	0.66	1.05	0.94	-1.61	1.41	1.28	0.33	-0.39	-0.69	1.57	1.01	1.35	1.02	0.53	-0.77	-0.72	**8.35**
460	1,3,7,11,17,19,22,24,29,36,35,37,40,43,47,46,48,52,53,54	1.07	0.66	0.70	0.56	-1.07	0.55	1.04	0.51	-0.27	-0.69	1.25	0.05	0.86	1.02	0.53	-0.77	-0.72	**5.26**
461	1,3,7,11,17,19,22,24,29,36,35,37,40,43,47,49,53,54	0.14	0.92	-0.17	-0.54	-0.22	0.55	0.08	1.03	-0.15	-0.59	0.14	0.05	0.49	1.02	0.53	-0.77	-0.72	**1.80**
462	1,3,7,11,17,19,22,24,29,36,35,37,40,43,50,54	0.04	0.40	-0.19	-0.66	-0.29	0.55	0.32	0.51	0.43	-0.54	-0.10	-0.90	0.45	1.02	0.53	-0.77	-0.72	**0.08**
463	1,3,7,11,17,19,22,24,29,36,35,37,42,46,48,51	1.26	-0.12	1.02	0.86	-1.65	0.55	1.28	0.33	-0.39	-0.72	1.53	1.01	1.27	1.02	0.53	-0.77	-0.72	**6.28**
464	1,3,7,11,17,19,22,24,29,36,35,37,42,46,48,52,53,54	0.93	-0.12	0.66	0.48	-1.12	-0.30	1.04	0.51	-0.27	-0.72	1.21	0.05	0.79	1.02	0.53	-0.77	-0.72	**3.19**
465	1,3,7,11,17,19,22,24,29,36,35,37,42,47,50,54	0.05	0.14	-0.19	-0.57	-0.24	0.55	0.32	0.51	0.43	-0.49	-0.08	-0.90	0.45	1.02	0.53	-0.77	-0.72	**0.05**
466	1,3,7,11,17,19,22,24,29,36,35,37,42,49,53,54	0.01	-0.12	-0.21	-0.62	-0.27	-0.30	0.08	1.03	-0.15	-0.62	0.11	0.05	0.42	1.02	0.53	-0.77	-0.72	**-0.53**
467	1,3,7,11,17,19,22,24,29,36,38,40,42,46,48,51	1.30	0.14	1.01	0.83	-0.94	0.98	1.28	0.70	-0.07	-0.71	1.49	1.01	1.28	1.02	0.53	-0.77	1.40	**10.49**
468	1,3,7,11,17,19,22,24,29,36,38,40,42,46,48,52,53,54	0.97	0.14	0.66	0.45	-0.40	0.13	1.04	0.87	0.05	-0.71	1.17	0.05	0.80	1.02	0.53	-0.77	1.40	**7.40**
469	1,3,7,11,17,19,22,24,29,36,38,40,42,47,50,54	0.09	0.40	-0.19	-0.60	0.48	0.98	0.32	0.87	0.76	-0.48	-0.12	-0.90	0.46	1.02	0.53	-0.77	1.40	**4.26**
470	1,3,7,11,17,19,22,24,29,36,38,40,42,49,53,54	0.05	0.14	-0.21	-0.65	0.45	0.13	0.08	1.39	0.18	-0.61	0.07	0.05	0.43	1.02	0.53	-0.77	1.40	**3.68**
471	1,3,7,11,17,19,22,24,29,36,38,41,44,55	0.56	-0.64	0.54	-0.88	0.32	-0.30	0.08	0.70	0.50	-0.56	0.36	-0.90	0.95	1.02	0.53	-0.77	1.40	**2.92**
472	1,3,7,11,17,19,22,24,29,36,38,41,45,55	2.26	0.40	1.38	0.14	-0.17	1.84	1.28	1.27	1.83	0.25	1.06	-0.90	1.83	1.02	0.53	-0.77	1.40	**14.65**
473	1,3,7,11,17,19,22,24,29,36,38,43,47,46,48,51	1.30	-0.12	1.02	0.91	-0.89	0.98	1.28	0.70	-0.07	-0.68	1.49	1.01	1.29	1.02	0.53	-0.77	1.40	**10.40**
474	1,3,7,11,17,19,22,24,29,36,38,43,47,46,48,52,53,54	0.98	-0.12	0.66	0.53	-0.36	0.13	1.04	0.87	0.05	-0.68	1.18	0.05	0.80	1.02	0.53	-0.77	1.40	**7.31**
475	1,3,7,11,17,19,22,24,29,36,38,43,47,49,53,54	0.05	0.14	-0.21	-0.57	0.50	0.13	0.08	1.39	0.18	-0.58	0.07	0.05	0.43	1.02	0.53	-0.77	1.40	**3.85**
476	1,3,7,11,17,19,22,24,29,36,38,43,50,54	-0.05	-0.38	-0.23	-0.69	0.43	0.13	0.32	0.87	0.76	-0.53	-0.17	-0.90	0.39	1.02	0.53	-0.77	1.40	**2.13**
477	1,3,7,11,17,19,22,24,29,39,41,40,42,46,48,51	1.50	-0.12	1.85	0.49	-2.27	-0.30	1.99	0.47	-0.42	0.61	0.22	1.01	1.76	1.02	0.53	-0.77	-0.72	**6.84**
478	1,3,7,11,17,19,22,24,29,39,41,40,42,46,48,52,53,54	1.17	-0.12	1.49	0.10	-1.73	-1.16	1.75	0.65	-0.30	0.61	-0.10	0.05	1.28	1.02	0.53	-0.77	-0.72	**3.75**
479	1,3,7,11,17,19,22,24,29,39,41,40,42,47,50,54	0.29	0.14	0.64	-0.94	-0.85	-0.30	1.04	0.65	0.40	0.84	-1.39	-0.90	0.94	1.02	0.53	-0.77	-0.72	**0.62**
480	1,3,7,11,17,19,22,24,29,39,41,40,42,49,53,54	0.25	-0.12	0.62	-1.00	-0.88	-1.16	0.80	1.17	-0.18	0.71	-1.20	0.05	0.90	1.02	0.53	-0.77	-0.72	**0.03**
481	1,3,7,11,17,19,22,24,29,39,41,43,47,46,48,51	1.50	0.14	1.85	0.57	-2.23	-0.30	1.99	0.47	-0.42	0.64	0.23	1.01	1.76	1.02	0.53	-0.77	-0.72	**7.27**
482	1,3,7,11,17,19,22,24,29,39,41,43,47,46,48,52,53,54	1.18	0.14	1.49	0.18	-1.69	-1.16	1.75	0.65	-0.30	0.64	-0.09	0.05	1.28	1.02	0.53	-0.77	-0.72	**4.18**
483	1,3,7,11,17,19,22,24,29,39,41,43,47,49,53,54	0.25	0.40	0.62	-0.92	-0.84	-1.16	0.80	1.17	-0.18	0.75	-1.20	0.05	0.91	1.02	0.53	-0.77	-0.72	**0.72**
484	1,3,7,11,17,19,22,24,29,39,41,43,50,54	0.15	-0.12	0.61	-1.03	-0.90	-1.16	1.04	0.65	0.40	0.79	-1.44	-0.90	0.87	1.02	0.53	-0.77	-0.72	**-1.00**
485	1,3,7,11,17,19,22,24,29,39,44,55	-0.78	-1.41	0.96	-1.23	-1.01	-1.59	-0.16	0.47	0.15	0.76	-1.59	-0.90	0.80	1.02	0.53	-0.77	-0.72	**-5.48**
486	1,3,7,11,17,19,22,24,29,39,45,55	0.92	-0.38	1.80	-0.21	-1.50	0.55	1.04	1.05	1.47	1.58	-0.89	-0.90	1.68	1.02	0.53	-0.77	-0.72	**6.26**
487	1,3,7,11,17,19,22,25,29,36,35,37,40,41,44,55	0.43	-0.64	0.52	-1.29	-0.06	0.13	0.32	0.35	-0.26	-0.50	0.07	-0.90	0.95	1.05	0.53	-0.77	-0.72	**-0.78**
488	1,3,7,11,17,19,22,25,29,36,35,37,40,41,45,55	2.13	0.40	1.36	-0.27	-0.55	2.27	1.52	0.93	1.07	0.31	0.78	-0.90	1.83	1.05	0.53	-0.77	-0.72	**10.96**
489	1,3,7,11,17,19,22,25,29,36,35,37,40,43,47,46,48,51	1.18	0.40	0.99	0.51	-1.28	1.41	1.52	0.35	-0.83	-0.62	1.20	1.01	1.29	1.05	0.53	-0.77	-0.72	**7.22**
490	1,3,7,11,17,19,22,25,29,36,35,37,40,43,47,46,48,52,53,54	0.85	0.40	0.64	0.12	-0.74	0.55	1.28	0.53	-0.71	-0.62	0.88	0.05	0.80	1.05	0.53	-0.77	-0.72	**4.13**
491	1,3,7,11,17,19,22,25,29,36,35,37,40,43,47,49,53,54	-0.08	0.66	-0.23	-0.98	0.11	0.55	0.32	1.05	-0.59	-0.52	-0.22	0.05	0.43	1.05	0.53	-0.77	-0.72	**0.67**
492	1,3,7,11,17,19,22,25,29,36,35,37,40,43,50,54	-0.18	0.14	-0.25	-1.09	0.05	0.55	0.56	0.53	0.00	-0.47	-0.46	-0.90	0.39	1.05	0.53	-0.77	-0.72	**-1.05**
493	1,3,7,11,17,19,22,25,29,36,35,37,42,46,48,51	1.05	-0.38	0.96	0.43	-1.32	0.55	1.52	0.35	-0.83	-0.65	1.16	1.01	1.22	1.05	0.53	-0.77	-0.72	**5.15**
494	1,3,7,11,17,19,22,25,29,36,35,37,42,46,48,52,53,54	0.72	-0.38	0.60	0.04	-0.78	-0.30	1.28	0.53	-0.71	-0.65	0.85	0.05	0.73	1.05	0.53	-0.77	-0.72	**2.06**
495	1,3,7,11,17,19,22,25,29,36,35,37,42,47,50,54	-0.16	-0.12	-0.25	-1.00	0.10	0.55	0.56	0.53	0.00	-0.42	-0.44	-0.90	0.40	1.05	0.53	-0.77	-0.72	**-1.08**
496	1,3,7,11,17,19,22,25,29,36,35,37,42,49,53,54	-0.21	-0.38	-0.27	-1.06	0.07	-0.30	0.32	1.05	-0.59	-0.55	-0.26	0.05	0.36	1.05	0.53	-0.77	-0.72	**-1.66**
497	1,3,7,11,17,19,22,25,29,36,38,40,42,46,48,51	1.09	-0.12	0.96	0.40	-0.60	0.98	1.52	0.72	-0.51	-0.64	1.12	1.01	1.22	1.05	0.53	-0.77	1.40	**9.36**
498	1,3,7,11,17,19,22,25,29,36,38,40,42,46,48,52,53,54	0.76	-0.12	0.60	0.01	-0.07	0.13	1.28	0.90	-0.39	-0.64	0.80	0.05	0.74	1.05	0.53	-0.77	1.40	**6.27**
499	1,3,7,11,17,19,22,25,29,36,38,40,42,47,50,54	-0.13	0.14	-0.25	-1.03	0.81	0.98	0.56	0.90	0.32	-0.41	-0.48	-0.90	0.40	1.05	0.53	-0.77	1.40	**3.13**
500	1,3,7,11,17,19,22,25,29,36,38,40,42,49,53,54	-0.17	-0.12	-0.27	-1.09	0.79	0.13	0.32	1.42	-0.26	-0.54	-0.30	0.05	0.37	1.05	0.53	-0.77	1.40	**2.55**
501	1,3,7,11,17,19,22,25,29,36,38,41,44,55	0.34	-0.90	0.48	-1.32	0.66	-0.30	0.32	0.72	0.06	-0.49	-0.01	-0.90	0.89	1.05	0.53	-0.77	1.40	**1.78**
502	1,3,7,11,17,19,22,25,29,36,38,41,45,55	2.04	0.14	1.32	-0.30	0.17	1.84	1.52	1.29	1.39	0.32	0.70	-0.90	1.77	1.05	0.53	-0.77	1.40	**13.52**
503	1,3,7,11,17,19,22,25,29,36,38,43,47,46,48,51	1.09	-0.38	0.96	0.48	-0.56	0.98	1.52	0.72	-0.51	-0.61	1.13	1.01	1.23	1.05	0.53	-0.77	1.40	**9.27**
504	1,3,7,11,17,19,22,25,29,36,38,43,47,46,48,52,53,54	0.76	-0.38	0.60	0.09	-0.02	0.13	1.28	0.90	-0.39	-0.61	0.81	0.05	0.74	1.05	0.53	-0.77	1.40	**6.18**

Table F-2: Raw Scores for All Routes

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
505	1,3,7,11,17,19,22,25,29,36,38,43,47,49,53,54	-0.17	-0.12	-0.27	-1.01	0.83	0.13	0.32	1.42	-0.26	-0.51	-0.29	0.05	0.37	1.05	0.53	-0.77	1.40	**2.72**
506	1,3,7,11,17,19,22,25,29,36,38,43,50,54	-0.27	-0.64	-0.29	-1.12	0.76	0.13	0.56	0.90	0.32	-0.46	-0.54	-0.90	0.33	1.05	0.53	-0.77	1.40	**1.00**
507	1,3,7,11,17,19,22,25,29,39,41,40,42,46,48,51	1.29	-0.38	1.79	0.06	-1.94	-0.30	2.23	0.49	-0.86	0.68	-0.15	1.01	1.70	1.05	0.53	-0.77	-0.72	**5.71**
508	1,3,7,11,17,19,22,25,29,39,41,40,42,46,48,52,53,54	0.96	-0.38	1.43	-0.33	-1.40	-1.16	1.99	0.67	-0.74	0.68	-0.46	0.05	1.22	1.05	0.53	-0.77	-0.72	**2.62**
509	1,3,7,11,17,19,22,25,29,39,41,40,42,47,50,54	0.08	-0.12	0.58	-1.38	-0.52	-0.30	1.28	0.67	-0.03	0.91	-1.75	-0.90	0.88	1.05	0.53	-0.77	-0.72	**-0.52**
510	1,3,7,11,17,19,22,25,29,39,41,40,42,49,53,54	0.03	-0.38	0.57	-1.43	-0.55	-1.16	1.04	1.19	-0.62	0.78	-1.57	0.05	0.85	1.05	0.53	-0.77	-0.72	**-1.10**
511	1,3,7,11,17,19,22,25,29,39,41,43,47,46,48,51	1.29	-0.12	1.79	0.14	-1.90	-0.30	2.23	0.49	-0.86	0.71	-0.14	1.01	1.71	1.05	0.53	-0.77	-0.72	**6.14**
512	1,3,7,11,17,19,22,25,29,39,41,43,47,46,48,52,53,54	0.96	-0.12	1.43	-0.25	-1.36	-1.16	1.99	0.67	-0.74	0.71	-0.46	0.05	1.22	1.05	0.53	-0.77	-0.72	**3.05**
513	1,3,7,11,17,19,22,25,29,39,41,43,47,49,53,54	0.03	0.14	0.57	-1.35	-0.51	-1.16	1.04	1.19	-0.62	0.82	-1.56	0.05	0.85	1.05	0.53	-0.77	-0.72	**-0.41**
514	1,3,7,11,17,19,22,25,29,39,41,43,50,54	-0.07	-0.38	0.55	-1.47	-0.57	-1.16	1.28	0.67	-0.03	0.86	-1.80	-0.90	0.81	1.05	0.53	-0.77	-0.72	**-2.13**
515	1,3,7,11,17,19,22,25,29,39,44,55	-1.00	-1.67	0.90	-1.66	-0.68	-1.59	0.08	0.49	-0.29	0.83	-1.96	-0.90	0.74	1.05	0.53	-0.77	-0.72	**-6.61**
516	1,3,7,11,17,19,22,25,29,39,45,55	0.70	-0.64	1.74	-0.64	-1.17	0.55	1.28	1.07	1.03	1.64	-1.25	-0.90	1.62	1.05	0.53	-0.77	-0.72	**5.13**
517	1,3,7,11,17,21,27,26,30,32,46,47,50,54	0.97	0.66	0.34	-0.63	0.27	2.27	1.99	0.27	1.82	-0.62	1.26	-0.90	0.99	-0.23	0.53	1.14	0.98	**11.12**
518	1,3,7,11,17,21,27,26,30,32,46,49,53,54	0.93	0.40	0.32	-0.68	0.24	1.41	1.75	0.79	1.24	-0.74	1.42	0.05	0.96	-0.23	0.53	1.14	0.98	**10.51**
519	1,3,7,11,17,21,27,26,30,32,48,51	0.43	-0.12	1.07	-1.27	-1.72	2.27	2.47	0.09	0.99	-0.85	0.92	-0.90	1.47	-0.23	0.53	1.14	0.98	**7.26**
520	1,3,7,11,17,21,27,26,30,32,48,52,53,54	0.10	-0.12	0.71	-1.66	-1.18	1.41	2.23	0.27	1.12	-0.85	0.60	-1.85	0.98	-0.23	0.53	1.14	0.98	**4.18**
521	1,3,7,11,17,21,27,26,31,34,35,37,40,41,44,55	-0.85	-0.64	-0.56	-0.61	0.53	0.13	-0.64	0.69	0.22	-1.23	0.46	-0.90	-0.54	-0.96	0.53	1.14	-0.72	**-3.95**
522	1,3,7,11,17,21,27,26,31,34,35,37,40,41,45,55	0.85	0.40	0.28	0.41	0.04	2.27	0.56	1.26	1.54	-0.42	1.17	-0.90	0.34	-0.96	0.53	1.14	-0.72	**7.78**
523	1,3,7,11,17,21,27,26,31,34,35,37,40,43,47,46,48,51	-0.11	0.40	-0.08	1.19	-0.68	1.41	0.56	0.69	-0.36	-1.36	1.59	1.01	-0.20	-0.96	0.53	1.14	-0.72	**4.04**
524	1,3,7,11,17,21,27,26,31,34,35,37,40,43,47,46,48,52,53,54	-0.43	0.40	-0.44	0.80	-0.15	0.55	0.32	0.86	-0.23	-1.36	1.27	0.05	-0.69	-0.96	0.53	1.14	-0.72	**0.96**
525	1,3,7,11,17,21,27,26,31,34,35,37,40,43,47,49,53,54	-1.36	0.66	-1.30	-0.30	0.70	0.55	-0.64	1.38	-0.11	-1.25	0.17	0.05	-1.06	-0.96	0.53	1.14	-0.72	**-2.51**
526	1,3,7,11,17,21,27,26,31,34,35,37,40,43,50,54	-1.46	0.14	-1.32	-0.42	0.64	0.55	-0.40	0.86	0.47	-1.21	-0.07	-0.90	-1.10	-0.96	0.53	1.14	-0.72	**-4.23**
527	1,3,7,11,17,21,27,26,31,34,35,37,42,46,48,51	-0.24	-0.38	-0.12	1.11	-0.73	0.55	0.56	0.69	-0.36	-1.39	1.56	1.01	-0.28	-0.96	0.53	1.14	-0.72	**1.97**
528	1,3,7,11,17,21,27,26,31,34,35,37,42,46,48,52,53,54	-0.57	-0.38	-0.47	0.72	-0.19	-0.30	0.32	0.86	-0.23	-1.39	1.24	0.05	-0.76	-0.96	0.53	1.14	-0.72	**-1.12**
529	1,3,7,11,17,21,27,26,31,34,35,37,42,47,50,54	-1.45	-0.12	-1.32	-0.33	0.69	0.55	-0.40	0.86	0.47	-1.16	-0.05	-0.90	-1.10	-0.96	0.53	1.14	-0.72	**-4.26**
530	1,3,7,11,17,21,27,26,31,34,35,37,42,49,53,54	-1.49	-0.38	-1.34	-0.38	0.66	-0.30	-0.64	1.38	-0.11	-1.29	0.13	0.05	-1.13	-0.96	0.53	1.14	-0.72	**-4.84**
531	1,3,7,11,17,21,27,26,31,34,36,39,41,40,42,46,48,51	1.09	0.40	1.01	1.36	-1.35	0.55	1.28	0.83	-0.39	0.58	0.49	1.01	0.76	-0.96	0.53	1.14	-0.72	**7.63**
532	1,3,7,11,17,21,27,26,31,34,36,39,41,40,42,46,48,52,53,54	0.77	0.40	0.65	0.98	-0.81	-0.30	1.04	1.01	-0.26	0.58	0.17	0.05	0.28	-0.96	0.53	1.14	-0.72	**4.54**
533	1,3,7,11,17,21,27,26,31,34,36,39,41,40,42,47,50,54	-0.12	0.66	-0.19	-0.07	0.07	0.55	0.32	1.01	0.44	0.82	-1.12	-0.90	-0.06	-0.96	0.53	1.14	-0.72	**1.40**
534	1,3,7,11,17,21,27,26,31,34,36,39,41,40,42,49,53,54	-0.16	0.40	-0.21	-0.12	0.04	-0.30	0.08	1.53	-0.14	0.69	-0.93	0.05	-0.09	-0.96	0.53	1.14	-0.72	**0.82**
535	1,3,7,11,17,21,27,26,31,34,36,39,41,43,47,46,48,51	1.10	0.66	1.01	1.44	-1.30	0.55	1.28	0.83	-0.39	0.62	0.49	1.01	0.77	-0.96	0.53	1.14	-0.72	**8.06**
536	1,3,7,11,17,21,27,26,31,34,36,39,41,43,47,46,48,52,53,54	0.77	0.66	0.65	1.06	-0.77	-0.30	1.04	1.01	-0.26	0.62	0.17	0.05	0.28	-0.96	0.53	1.14	-0.72	**4.97**
537	1,3,7,11,17,21,27,26,31,34,36,39,41,43,47,49,53,54	-0.16	0.92	-0.21	-0.04	0.09	-0.30	0.08	1.53	-0.14	0.72	-0.93	0.05	-0.09	-0.96	0.53	1.14	-0.72	**1.50**
538	1,3,7,11,17,21,27,26,31,34,36,39,41,43,50,54	-0.26	0.40	-0.23	-0.16	0.02	-0.30	0.32	1.01	0.44	0.76	-1.17	-0.90	-0.13	-0.96	0.53	1.14	-0.72	**-0.21**
539	1,3,7,11,17,21,27,26,31,34,36,39,44,55	-1.19	-0.90	0.12	-0.35	-0.09	-0.73	-0.87	0.83	0.19	0.74	-1.32	-0.90	-0.19	-0.96	0.53	1.14	-0.72	**-4.69**
540	1,3,7,11,17,21,27,26,31,34,36,39,45,55	0.51	0.14	0.96	0.66	-0.58	1.41	0.32	1.40	1.51	1.55	-0.62	-0.90	0.68	-0.96	0.53	1.14	-0.72	**7.05**
541	1,3,7,11,17,21,27,26,31,34,38,40,42,46,48,51	-0.20	-0.38	-0.12	1.08	-0.01	0.98	0.56	1.05	-0.03	-1.38	1.52	1.01	-0.27	-0.96	0.53	1.14	1.40	**5.92**
542	1,3,7,11,17,21,27,26,31,34,38,40,42,46,48,52,53,54	-0.53	-0.38	-0.48	0.69	0.53	0.13	0.32	1.23	0.09	-1.38	1.20	0.05	-0.75	-0.96	0.53	1.14	1.40	**2.84**
543	1,3,7,11,17,21,27,26,31,34,38,40,42,47,50,54	-1.41	-0.12	-1.32	-0.36	1.41	0.98	-0.40	1.23	0.79	-1.15	-0.09	-0.90	-1.09	-0.96	0.53	1.14	1.40	**-0.30**
544	1,3,7,11,17,21,27,26,31,34,38,40,42,49,53,54	-1.45	-0.38	-1.34	-0.41	1.38	0.13	-0.64	1.75	0.21	-1.27	0.09	0.05	-1.13	-0.96	0.53	1.14	1.40	**-0.89**
545	1,3,7,11,17,21,27,26,31,34,38,41,44,55	-0.94	-1.15	-0.59	-0.64	1.25	-0.30	-0.64	1.05	0.54	-1.22	0.38	-0.90	-0.60	-0.96	0.53	1.14	1.40	**-1.65**
546	1,3,7,11,17,21,27,26,31,34,38,41,45,55	0.76	-0.12	0.25	0.38	0.76	1.84	0.56	1.63	1.86	-0.41	1.09	-0.90	0.27	-0.96	0.53	1.14	1.40	**10.09**
547	1,3,7,11,17,21,27,26,31,34,38,43,47,46,48,51	-0.20	-0.64	-0.12	1.16	0.03	0.98	0.56	1.05	-0.03	-1.35	1.52	1.01	-0.27	-0.96	0.53	1.14	1.40	**5.83**
548	1,3,7,11,17,21,27,26,31,34,38,43,47,46,48,52,53,54	-0.52	-0.64	-0.47	0.77	0.57	0.13	0.32	1.23	0.09	-1.35	1.20	0.05	-0.75	-0.96	0.53	1.14	1.40	**2.75**
549	1,3,7,11,17,21,27,26,31,34,38,43,47,49,53,54	-1.45	-0.38	-1.34	-0.33	1.42	0.13	-0.64	1.75	0.21	-1.24	0.10	0.05	-1.12	-0.96	0.53	1.14	1.40	**-0.72**
550	1,3,7,11,17,21,27,26,31,34,38,43,50,54	-1.55	-0.90	-1.36	-0.45	1.36	0.13	-0.40	1.23	0.79	-1.20	-0.14	-0.90	-1.17	-0.96	0.53	1.14	1.40	**-2.44**
551	1,3,7,11,17,21,27,26,33,37,40,41,44,55	-0.92	-1.67	-0.59	-0.63	0.17	0.13	-0.40	0.69	-0.09	-1.22	0.41	-0.90	-0.56	-0.96	0.53	1.14	-0.72	**-5.59**
552	1,3,7,11,17,21,27,26,33,37,40,41,45,55	0.78	-0.64	0.25	0.39	-0.32	2.27	0.80	1.26	1.24	-0.41	1.11	-0.90	0.32	-0.96	0.53	1.14	-0.72	**6.15**
553	1,3,7,11,17,21,27,26,33,37,40,43,47,46,48,51	-0.17	-0.64	-0.11	1.16	-1.04	1.41	0.80	0.69	-0.66	-1.34	1.54	1.01	-0.22	-0.96	0.53	1.14	-0.72	**2.41**
554	1,3,7,11,17,21,27,26,33,37,40,43,47,46,48,52,53,54	-0.50	-0.64	-0.47	0.78	-0.51	0.55	0.56	0.86	-0.54	-1.34	1.22	0.05	-0.71	-0.96	0.53	1.14	-0.72	**-0.68**
555	1,3,7,11,17,21,27,26,33,37,40,43,47,49,53,54	-1.43	-0.38	-1.34	-0.32	0.35	0.55	-0.40	1.38	-0.41	-1.24	0.12	0.05	-1.08	-0.96	0.53	1.14	-0.72	**-4.14**
556	1,3,7,11,17,21,27,26,33,37,40,43,50,54	-1.53	-0.90	-1.36	-0.44	0.28	0.55	-0.16	0.86	0.17	-1.19	-0.13	-0.90	-1.12	-0.96	0.53	1.14	-0.72	**-5.86**
557	1,3,7,11,17,21,27,26,33,37,42,46,48,51	-0.30	-1.41	-0.15	1.08	-1.09	0.55	0.80	0.69	-0.66	-1.37	1.50	1.01	-0.30	-0.96	0.53	1.14	-0.72	**0.34**
558	1,3,7,11,17,21,27,26,33,37,42,46,48,52,53,54	-0.63	-1.41	-0.51	0.70	-0.55	-0.30	0.56	0.86	-0.54	-1.37	1.18	0.05	-0.78	-0.96	0.53	1.14	-0.72	**-2.75**
559	1,3,7,11,17,21,27,26,33,37,42,47,50,54	-1.52	-1.15	-1.35	-0.35	0.33	0.55	-0.16	0.86	0.17	-1.14	-0.10	-0.90	-1.12	-0.96	0.53	1.14	-0.72	**-5.89**
560	1,3,7,11,17,21,27,26,33,37,42,49,53,54	-1.56	-1.41	-1.37	-0.40	0.30	-0.30	-0.40	1.38	-0.41	-1.27	0.08	0.05	-1.15	-0.96	0.53	1.14	-0.72	**-6.47**
561	1,3,7,11,17,21,28,31,30,32,46,47,50,54	0.90	0.14	0.27	-0.60	0.47	2.27	1.99	0.27	1.47	-0.37	1.01	-0.90	0.90	-0.23	0.53	-0.77	0.98	**8.32**
562	1,3,7,11,17,21,28,31,30,32,46,49,53,54	0.86	-0.12	0.25	-0.65	0.44	1.41	1.75	0.79	0.89	-0.50	1.17	0.05	0.86	-0.23	0.53	-0.77	0.98	**7.71**
563	1,3,7,11,17,21,28,31,30,32,48,51	0.36	-0.64	1.00	-1.25	-1.51	2.27	2.47	0.09	0.64	-0.60	0.66	-0.90	1.37	-0.23	0.53	-0.77	0.98	**4.46**
564	1,3,7,11,17,21,28,31,30,32,48,52,53,54	0.03	-0.64	0.64	-1.63	-0.97	1.41	2.23	0.27	0.76	-0.60	0.34	-1.85	0.89	-0.23	0.53	-0.77	0.98	**1.38**
565	1,3,7,11,17,21,28,31,33,37,40,41,44,55	-0.99	-1.67	-0.66	-0.61	0.38	0.13	-0.40	0.69	-0.44	-0.97	0.15	-0.90	-0.65	-0.96	0.53	-0.77	-0.72	**-7.87**
566	1,3,7,11,17,21,28,31,33,37,40,41,45,55	0.71	-0.64	0.18	0.41	-0.11	2.27	0.80	1.26	0.88	-0.16	0.86	-0.90	0.22	-0.96	0.53	-0.77	-0.72	**3.87**
567	1,3,7,11,17,21,28,31,33,37,40,43,47,46,48,51	-0.25	-0.64	-0.18	1.19	-0.84	1.41	0.80	0.69	-1.01	-1.10	1.28	1.01	-0.32	-0.96	0.53	-0.77	-0.72	**0.13**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
568	1,3,7,11,17,21,28,31,33,37,40,43,47,46,48,52,53,54	-0.57	-0.64	-0.54	0.80	-0.30	0.55	0.56	0.86	-0.89	-1.10	0.96	0.05	-0.80	-0.96	0.53	-0.77	-0.72	**-2.96**
569	1,3,7,11,17,21,28,31,33,37,40,43,47,49,53,54	-1.50	-0.38	-1.41	-0.30	0.55	0.55	-0.40	1.38	-0.77	-0.99	-0.14	0.05	-1.17	-0.96	0.53	-0.77	-0.72	**-6.42**
570	1,3,7,11,17,21,28,31,33,37,40,43,50,54	-1.60	-0.90	-1.43	-0.41	0.49	0.55	-0.16	0.86	-0.18	-0.95	-0.38	-0.90	-1.22	-0.96	0.53	-0.77	-0.72	**-8.14**
571	1,3,7,11,17,21,28,31,33,37,42,46,48,51	-0.38	-1.41	-0.22	1.11	-0.88	0.55	0.80	0.69	-1.01	-1.13	1.24	1.01	-0.39	-0.96	0.53	-0.77	-0.72	**-1.95**
572	1,3,7,11,17,21,28,31,33,37,42,46,48,52,53,54	-0.70	-1.41	-0.58	0.72	-0.34	-0.30	0.56	0.86	-0.89	-1.13	0.93	0.05	-0.88	-0.96	0.53	-0.77	-0.72	**-5.03**
573	1,3,7,11,17,21,28,31,33,37,42,47,50,54	-1.59	-1.15	-1.42	-0.32	0.54	0.55	-0.16	0.86	-0.18	-0.90	-0.36	-0.90	-1.21	-0.96	0.53	-0.77	-0.72	**-8.17**
574	1,3,7,11,17,21,28,31,33,37,42,49,53,54	-1.63	-1.41	-1.44	-0.37	0.51	-0.30	-0.40	1.38	-0.77	-1.02	-0.18	0.05	-1.25	-0.96	0.53	-0.77	-0.72	**-8.76**
575	1,3,7,11,17,21,28,34,35,37,40,41,44,55	-1.02	-1.67	-0.65	-0.58	0.74	0.13	-0.64	0.69	-0.14	-1.01	0.12	-0.90	-0.70	-0.96	0.53	-0.77	-0.72	**-7.56**
576	1,3,7,11,17,21,28,34,35,37,40,41,45,55	0.68	-0.64	0.19	0.44	0.25	2.27	0.56	1.26	1.19	-0.20	0.83	-0.90	0.18	-0.96	0.53	-0.77	-0.72	**4.17**
577	1,3,7,11,17,21,28,34,35,37,40,43,47,46,48,51	-0.27	-0.64	-0.18	1.21	-0.48	1.41	0.56	0.69	-0.71	-1.14	1.26	1.01	-0.36	-0.96	0.53	-0.77	-0.72	**0.44**
578	1,3,7,11,17,21,28,34,35,37,40,43,47,46,48,52,53,54	-0.60	-0.64	-0.53	0.83	0.06	0.55	0.32	0.86	-0.59	-1.14	0.94	0.05	-0.85	-0.96	0.53	-0.77	-0.72	**-2.65**
579	1,3,7,11,17,21,28,34,35,37,40,43,47,49,53,54	-1.53	-0.38	-1.40	-0.27	0.91	0.55	-0.64	1.38	-0.46	-1.03	-0.17	0.05	-1.22	-0.96	0.53	-0.77	-0.72	**-6.12**
580	1,3,7,11,17,21,28,34,35,37,40,43,50,54	-1.63	-0.90	-1.42	-0.39	0.84	0.55	-0.40	0.86	0.12	-0.99	-0.41	-0.90	-1.26	-0.96	0.53	-0.77	-0.72	**-7.83**
581	1,3,7,11,17,21,28,34,35,37,42,46,48,51	-0.41	-1.41	-0.21	1.13	-0.52	0.55	0.56	0.69	-0.71	-1.17	1.22	1.01	-0.44	-0.96	0.53	-0.77	-0.72	**-1.64**
582	1,3,7,11,17,21,28,34,35,37,42,46,48,52,53,54	-0.73	-1.41	-0.57	0.75	0.01	-0.30	0.32	0.86	-0.59	-1.17	0.90	0.05	-0.92	-0.96	0.53	-0.77	-0.72	**-4.72**
583	1,3,7,11,17,21,28,34,35,37,42,47,50,54	-1.62	-1.15	-1.42	-0.30	0.89	0.55	-0.40	0.86	0.12	-0.94	-0.39	-0.90	-1.26	-0.96	0.53	-0.77	-0.72	**-7.86**
584	1,3,7,11,17,21,28,34,35,37,42,49,53,54	-1.66	-1.41	-1.44	-0.35	0.87	-0.30	-0.64	1.38	-0.46	-1.07	-0.20	0.05	-1.29	-0.96	0.53	-0.77	-0.72	**-8.45**
585	1,3,7,11,17,21,28,34,36,39,41,40,42,46,48,51	0.93	-0.64	0.91	1.39	-1.14	0.55	1.28	0.83	-0.74	0.80	0.15	1.01	0.61	-0.96	0.53	-0.77	-0.72	**4.02**
586	1,3,7,11,17,21,28,34,36,39,41,40,42,46,48,52,53,54	0.60	-0.64	0.56	1.00	-0.60	-0.30	1.04	1.01	-0.62	0.80	-0.17	0.05	0.12	-0.96	0.53	-0.77	-0.72	**0.93**
587	1,3,7,11,17,21,28,34,36,39,41,40,42,47,50,54	-0.28	-0.38	-0.29	-0.05	0.28	0.55	0.32	1.01	0.09	1.03	-1.45	-0.90	-0.21	-0.96	0.53	-0.77	-0.72	**-2.21**
588	1,3,7,11,17,21,28,34,36,39,41,40,42,49,53,54	-0.33	-0.64	-0.31	-0.10	0.25	-0.30	0.08	1.53	-0.49	0.91	-1.27	0.05	-0.25	-0.96	0.53	-0.77	-0.72	**-2.79**
589	1,3,7,11,17,21,28,34,36,39,41,43,47,46,48,51	0.93	-0.38	0.92	1.47	-1.10	0.55	1.28	0.83	-0.74	0.84	0.16	1.01	0.61	-0.96	0.53	-0.77	-0.72	**4.45**
590	1,3,7,11,17,21,28,34,36,39,41,43,47,46,48,52,53,54	0.60	-0.38	0.56	1.08	-0.56	-0.30	1.04	1.01	-0.62	0.84	-0.16	0.05	0.13	-0.96	0.53	-0.77	-0.72	**1.36**
591	1,3,7,11,17,21,28,34,36,39,41,43,47,49,53,54	-0.33	-0.12	-0.31	-0.02	0.29	-0.30	0.08	1.53	-0.49	0.94	-1.27	0.05	-0.25	-0.96	0.53	-0.77	-0.72	**-2.10**
592	1,3,7,11,17,21,28,34,36,39,41,43,50,54	-0.43	-0.64	-0.33	-0.14	0.23	-0.30	0.32	1.01	0.09	0.98	-1.51	-0.90	-0.29	-0.96	0.53	-0.77	-0.72	**-3.82**
593	1,3,7,11,17,21,28,34,36,39,44,55	-1.36	-1.93	0.02	-0.33	0.12	-0.73	-0.87	0.83	-0.17	0.96	-1.66	-0.90	-0.35	-0.96	0.53	-0.77	-0.72	**-8.30**
594	1,3,7,11,17,21,28,34,36,39,45,55	0.34	-0.90	0.86	0.69	-0.37	1.41	0.32	1.40	1.16	1.77	-0.95	-0.90	0.52	-0.96	0.53	-0.77	-0.72	**3.44**
595	1,3,7,11,17,21,28,34,38,40,42,46,48,51	-0.37	-1.41	-0.21	1.10	0.19	0.98	0.56	1.05	-0.39	-1.16	1.18	1.01	-0.43	-0.96	0.53	-0.77	1.40	**2.32**
596	1,3,7,11,17,21,28,34,38,40,42,46,48,52,53,54	-0.69	-1.41	-0.57	0.72	0.73	0.13	0.32	1.23	-0.27	-1.16	0.86	0.05	-0.91	-0.96	0.53	-0.77	1.40	**-0.77**
597	1,3,7,11,17,21,28,34,38,40,42,47,50,54	-1.58	-1.15	-1.42	-0.33	1.61	0.98	-0.40	1.23	0.44	-0.93	-0.43	-0.90	-1.25	-0.96	0.53	-0.77	1.40	**-3.91**
598	1,3,7,11,17,21,28,34,38,40,42,49,53,54	-1.62	-1.41	-1.44	-0.38	1.58	0.13	-0.64	1.75	-0.14	-1.05	-0.24	0.05	-1.28	-0.96	0.53	-0.77	1.40	**-4.49**
599	1,3,7,11,17,21,28,34,38,41,44,55	-1.11	-2.19	-0.69	-0.61	1.46	-0.30	-0.64	1.05	0.19	-1.00	0.05	-0.90	-0.76	-0.96	0.53	-0.77	1.40	**-5.26**
600	1,3,7,11,17,21,28,34,38,41,45,55	0.59	-1.15	0.15	0.40	0.96	1.84	0.56	1.63	1.51	-0.19	0.75	-0.90	0.12	-0.96	0.53	-0.77	1.40	**6.48**
601	1,3,7,11,17,21,28,34,38,43,47,46,48,51	-0.37	-1.67	-0.21	1.18	0.24	0.98	0.56	1.05	-0.39	-1.13	1.19	1.01	-0.42	-0.96	0.53	-0.77	1.40	**2.23**
602	1,3,7,11,17,21,28,34,38,43,47,46,48,52,53,54	-0.69	-1.67	-0.57	0.80	0.78	0.13	0.32	1.23	-0.27	-1.13	0.87	0.05	-0.91	-0.96	0.53	-0.77	1.40	**-0.86**
603	1,3,7,11,17,21,28,34,38,43,47,49,53,54	-1.62	-1.41	-1.44	-0.30	1.63	0.13	-0.64	1.75	-0.14	-1.02	-0.24	0.05	-1.28	-0.96	0.53	-0.77	1.40	**-4.32**
604	1,3,7,11,17,21,28,34,38,43,50,54	-1.72	-1.93	-1.46	-0.42	1.56	0.13	-0.40	1.23	0.44	-0.98	-0.48	-0.90	-1.32	-0.96	0.53	-0.77	1.40	**-6.04**
605	1,3,7,9,10,12,14,30,31,34,35,37,40,41,44,55	0.65	-1.67	0.48	0.65	1.25	0.55	0.32	-0.02	-0.84	0.46	0.43	-0.90	0.24	-0.07	0.53	-0.77	-0.72	**0.58**
606	1,3,7,9,10,12,14,30,31,34,35,37,40,41,45,55	2.35	-0.64	1.32	1.67	0.76	2.70	1.52	0.56	0.49	1.27	1.14	-0.90	1.12	-0.07	0.53	-0.77	-0.72	**12.32**
607	1,3,7,9,10,12,14,30,31,34,35,37,40,43,47,46,48,51	1.40	-0.64	0.95	2.45	0.04	1.84	1.52	-0.02	-1.41	0.34	1.56	1.01	0.58	-0.07	0.53	-0.77	-0.72	**8.58**
608	1,3,7,9,10,12,14,30,31,34,35,37,40,43,47,46,48,52,53,54	1.07	-0.64	0.60	2.06	0.57	0.98	1.28	0.16	-1.29	0.34	1.24	0.05	0.09	-0.07	0.53	-0.77	-0.72	**5.49**
609	1,3,7,9,10,12,14,30,31,34,35,37,40,43,47,49,53,54	0.14	-0.38	-0.27	0.96	1.43	0.98	0.32	0.68	-1.16	0.44	0.14	0.05	-0.28	-0.07	0.53	-0.77	-0.72	**2.03**
610	1,3,7,9,10,12,14,30,31,34,35,37,40,43,50,54	0.04	-0.90	-0.29	0.84	1.36	0.98	0.56	0.16	-0.58	0.48	-0.10	-0.90	-0.32	-0.07	0.53	-0.77	-0.72	**0.31**
611	1,3,7,9,10,12,14,30,31,34,35,37,42,46,48,51	1.26	-1.41	0.92	2.37	-0.01	0.98	1.52	-0.02	-1.41	0.30	1.52	1.01	0.50	-0.07	0.53	-0.77	-0.72	**6.50**
612	1,3,7,9,10,12,14,30,31,34,35,37,42,46,48,52,53,54	0.94	-1.41	0.56	1.98	0.53	0.13	1.28	0.16	-1.29	0.30	1.21	0.05	0.02	-0.07	0.53	-0.77	-0.72	**3.42**
613	1,3,7,9,10,12,14,30,31,34,35,37,42,47,50,54	0.05	-1.15	-0.29	0.93	1.41	0.98	0.56	0.16	-0.58	0.53	-0.08	-0.90	-0.32	-0.07	0.53	-0.77	-0.72	**0.28**
614	1,3,7,9,10,12,14,30,31,34,35,37,42,49,53,54	0.01	-1.41	-0.31	0.88	1.38	0.13	0.32	0.68	-1.16	0.41	0.10	0.05	-0.35	-0.07	0.53	-0.77	-0.72	**-0.31**
615	1,3,7,9,10,12,14,30,31,34,36,39,41,40,42,46,48,51	2.60	-0.64	2.04	2.62	-0.62	0.98	2.23	0.13	-1.44	2.28	0.46	1.01	1.55	-0.07	0.53	-0.77	-0.72	**12.16**
616	1,3,7,9,10,12,14,30,31,34,36,39,41,40,42,46,48,52,53,54	2.27	-0.64	1.69	2.24	-0.09	0.13	1.99	0.31	-1.32	2.28	0.14	0.05	1.06	-0.07	0.53	-0.77	-0.72	**9.08**
617	1,3,7,9,10,12,14,30,31,34,36,39,41,40,42,47,50,54	1.39	-0.38	0.84	1.19	0.79	0.98	1.28	0.31	-0.61	2.51	-1.15	-0.90	0.73	-0.07	0.53	-0.77	-0.72	**5.94**
618	1,3,7,9,10,12,14,30,31,34,36,39,41,40,42,49,53,54	1.34	-0.64	0.82	1.14	0.76	0.13	1.04	0.83	-1.19	2.38	-0.97	0.05	0.69	-0.07	0.53	-0.77	-0.72	**5.35**
619	1,3,7,9,10,12,14,30,31,34,36,39,41,43,47,46,48,51	2.60	-0.38	2.05	2.70	-0.58	0.98	2.23	0.13	-1.44	2.31	0.46	1.01	1.55	-0.07	0.53	-0.77	-0.72	**12.59**
620	1,3,7,9,10,12,14,30,31,34,36,39,41,43,47,46,48,52,53,54	2.27	-0.38	1.69	2.32	-0.04	0.13	1.99	0.31	-1.32	2.31	0.14	0.05	1.07	-0.07	0.53	-0.77	-0.72	**9.50**
621	1,3,7,9,10,12,14,30,31,34,36,39,41,43,47,49,53,54	1.34	-0.12	0.82	1.22	0.81	0.13	1.04	0.83	-1.19	2.41	-0.96	0.05	0.69	-0.07	0.53	-0.77	-0.72	**6.04**
622	1,3,7,9,10,12,14,30,31,34,36,39,41,43,50,54	1.24	-0.64	0.80	1.10	0.74	0.13	1.28	0.31	-0.61	2.46	-1.20	-0.90	0.65	-0.07	0.53	-0.77	-0.72	**4.32**
623	1,3,7,9,10,12,14,30,31,34,36,39,44,55	0.31	-1.93	1.15	0.91	0.64	-0.30	0.08	0.13	-0.87	2.43	-1.35	-0.90	0.59	-0.07	0.53	-0.77	-0.72	**-0.16**
624	1,3,7,9,10,12,14,30,31,34,36,39,45,55	2.01	-0.90	1.99	1.92	0.15	1.84	1.28	0.70	0.46	3.24	-0.65	-0.90	1.46	-0.07	0.53	-0.77	-0.72	**11.58**
625	1,3,7,9,10,12,14,30,31,34,38,40,42,46,48,51	1.30	-1.41	0.92	2.34	0.71	1.41	1.52	0.35	-1.09	0.32	1.48	1.01	0.51	-0.07	0.53	-0.77	1.40	**10.46**
626	1,3,7,9,10,12,14,30,31,34,38,40,42,46,48,52,53,54	0.98	-1.41	0.56	1.95	1.25	0.55	1.28	0.53	-0.96	0.32	1.17	0.05	0.03	-0.07	0.53	-0.77	1.40	**7.37**
627	1,3,7,9,10,12,14,30,31,34,38,40,42,47,50,54	0.09	-1.15	-0.29	0.90	2.13	1.41	0.56	0.53	-0.26	0.55	-0.12	-0.90	-0.31	-0.07	0.53	-0.77	1.40	**4.23**
628	1,3,7,9,10,12,14,30,31,34,38,40,42,49,53,54	0.05	-1.41	-0.31	0.85	2.10	0.55	0.32	1.05	-0.84	0.42	0.06	0.05	-0.34	-0.07	0.53	-0.77	1.40	**3.65**
629	1,3,7,9,10,12,14,30,31,34,38,41,44,55	0.56	-2.19	0.44	0.62	1.97	0.13	0.32	0.35	-0.51	0.47	0.35	-0.90	0.18	-0.07	0.53	-0.77	1.40	**2.88**
630	1,3,7,9,10,12,14,30,31,34,38,41,45,55	2.26	-1.15	1.28	1.64	1.48	2.27	1.52	0.93	0.81	1.28	1.06	-0.90	1.06	-0.07	0.53	-0.77	1.40	**14.62**

Westar Energy- JEC to East Manhattan
345/230 kV Transmission Line Project
Table F-2: Raw Scores for All Routes

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
631	1,3,7,9,10,12,14,30,31,34,38,43,47,46,48,51	1.30	-1.67	0.92	2.42	0.75	1.41	1.52	0.35	-1.09	0.35	1.49	1.01	0.52	-0.07	0.53	-0.77	1.40	**10.37**
632	1,3,7,9,10,12,14,30,31,34,38,43,47,46,48,52,53,54	0.98	-1.67	0.56	2.03	1.29	0.55	1.28	0.53	-0.96	0.35	1.17	0.05	0.03	-0.07	0.53	-0.77	1.40	**7.28**
633	1,3,7,9,10,12,14,30,31,34,38,43,47,49,53,54	0.05	-1.41	-0.31	0.93	2.14	0.55	0.32	1.05	-0.84	0.45	0.07	0.05	-0.34	-0.07	0.53	-0.77	1.40	**3.82**
634	1,3,7,9,10,12,14,30,31,34,38,43,50,54	-0.05	-1.93	-0.33	0.81	2.08	0.55	0.56	0.53	-0.26	0.50	-0.18	-0.90	-0.38	-0.07	0.53	-0.77	1.40	**2.10**
635	1,3,7,9,10,12,14,30,33,37,40,41,44,55	0.59	-2.19	0.45	0.63	0.90	0.55	0.56	-0.02	-1.14	0.48	0.37	-0.90	0.22	-0.07	0.53	-0.77	-0.72	**-0.54**
636	1,3,7,9,10,12,14,30,33,37,40,41,45,55	2.29	-1.15	1.29	1.65	0.41	2.70	1.75	0.56	0.19	1.29	1.08	-0.90	1.10	-0.07	0.53	-0.77	-0.72	**11.20**
637	1,3,7,9,10,12,14,30,33,37,40,43,47,46,48,51	1.33	-1.15	0.92	2.42	-0.32	1.84	1.75	-0.02	-1.71	0.35	1.51	1.01	0.56	-0.07	0.53	-0.77	-0.72	**7.46**
638	1,3,7,9,10,12,14,30,33,37,40,43,47,46,48,52,53,54	1.00	-1.15	0.57	2.04	0.22	0.98	1.52	0.16	-1.59	0.35	1.19	0.05	0.07	-0.07	0.53	-0.77	-0.72	**4.37**
639	1,3,7,9,10,12,14,30,33,37,40,43,47,49,53,54	0.08	-0.90	-0.30	0.94	1.07	0.98	0.56	0.68	-1.46	0.46	0.08	0.05	-0.30	-0.07	0.53	-0.77	-0.72	**0.91**
640	1,3,7,9,10,12,14,30,33,37,40,43,50,54	-0.02	-1.41	-0.32	0.82	1.00	0.98	0.80	0.16	-0.88	0.50	-0.16	-0.90	-0.34	-0.07	0.53	-0.77	-0.72	**-0.81**
641	1,3,7,9,10,12,14,30,33,37,42,46,48,51	1.20	-1.93	0.88	2.35	-0.36	0.98	1.75	-0.02	-1.71	0.32	1.47	1.01	0.48	-0.07	0.53	-0.77	-0.72	**5.39**
642	1,3,7,9,10,12,14,30,33,37,42,46,48,52,53,54	0.87	-1.93	0.53	1.96	0.17	0.13	1.52	0.16	-1.59	0.32	1.15	0.05	0.00	-0.07	0.53	-0.77	-0.72	**2.30**
643	1,3,7,9,10,12,14,30,33,37,42,47,50,54	-0.01	-1.67	-0.32	0.91	1.05	0.98	0.80	0.16	-0.88	0.55	-0.14	-0.90	-0.34	-0.07	0.53	-0.77	-0.72	**-0.84**
644	1,3,7,9,10,12,14,30,33,37,42,49,53,54	-0.06	-1.93	-0.34	0.86	1.02	0.13	0.56	0.68	-1.46	0.42	0.05	0.05	-0.37	-0.07	0.53	-0.77	-0.72	**-1.42**
645	1,3,7,9,10,12,14,32,46,47,50,54	1.61	-0.90	1.14	0.63	0.99	1.84	2.47	-0.43	0.77	1.08	0.32	-0.90	1.18	0.46	0.53	-0.77	0.98	**10.98**
646	1,3,7,9,10,12,14,32,46,49,53,54	1.56	-1.15	1.12	0.58	0.96	0.98	2.23	0.09	0.19	0.95	0.48	0.05	1.14	0.46	0.53	-0.77	0.98	**10.38**
647	1,3,7,9,10,12,14,32,48,51	1.06	-1.67	1.86	-0.01	-0.99	1.84	2.95	-0.61	-0.06	0.85	-0.03	-0.90	1.65	0.46	0.53	-0.77	0.98	**7.13**
648	1,3,7,9,10,12,14,32,48,52,53,54	0.74	-1.67	1.51	-0.40	-0.46	0.98	2.71	-0.43	0.06	0.85	-0.35	-1.85	1.17	0.46	0.53	-0.77	0.98	**4.04**
649	1,3,7,9,10,13,17,18,20,23,26,30,32,46,47,50,54	1.06	1.70	0.14	-0.68	0.19	1.41	1.28	-0.28	2.09	-0.12	0.81	-0.90	0.70	0.33	0.53	1.14	0.98	**10.36**
650	1,3,7,9,10,13,17,18,20,23,26,30,32,46,49,53,54	1.02	1.44	0.12	-0.74	0.16	0.55	1.04	0.24	1.51	-0.25	0.97	0.05	0.67	0.33	0.53	1.14	0.98	**9.76**
651	1,3,7,9,10,13,17,18,20,23,26,30,32,48,51	0.52	0.92	0.87	-1.33	-1.79	1.41	1.75	-0.46	1.26	-0.36	0.46	-0.90	1.18	0.33	0.53	1.14	0.98	**6.51**
652	1,3,7,9,10,13,17,18,20,23,26,30,32,48,52,53,54	0.19	0.92	0.51	-1.72	-1.25	0.55	1.52	-0.28	1.38	-0.36	0.14	-1.85	0.69	0.33	0.53	1.14	0.98	**3.42**
653	1,3,7,9,10,13,17,18,20,23,26,31,34,35,37,40,41,44,55	-0.76	0.40	-0.75	-0.67	0.46	-0.73	-1.35	0.14	0.48	-0.74	0.01	-0.90	-0.83	-0.40	0.53	1.14	-0.72	**-4.71**
654	1,3,7,9,10,13,17,18,20,23,26,31,34,35,37,40,41,45,55	0.94	1.44	0.09	0.35	-0.03	1.41	-0.16	0.71	1.81	0.07	0.71	-0.90	0.05	-0.40	0.53	1.14	-0.72	**7.03**
655	1,3,7,9,10,13,17,18,20,23,26,31,34,35,37,40,43,47,46,48,51	-0.02	1.44	-0.28	1.13	-0.76	0.55	-0.16	0.14	-0.09	-0.87	1.14	1.01	-0.49	-0.40	0.53	1.14	-0.72	**3.29**
656	1,3,7,9,10,13,17,18,20,23,26,31,34,35,37,40,43,47,46,48,52,53,54	-0.35	1.44	-0.63	0.74	-0.22	-0.30	-0.40	0.31	0.03	-0.87	0.82	0.05	-0.98	-0.40	0.53	1.14	-0.72	**0.21**
657	1,3,7,9,10,13,17,18,20,23,26,31,34,35,37,40,43,47,49,53,54	-1.27	1.70	-1.50	-0.36	0.63	-0.30	-1.35	0.83	0.16	-0.76	-0.29	0.05	-1.35	-0.40	0.53	1.14	-0.72	**-3.26**
658	1,3,7,9,10,13,17,18,20,23,26,31,34,35,37,40,43,50,54	-1.37	1.18	-1.52	-0.47	0.56	-0.30	-1.11	0.31	0.74	-0.72	-0.53	-0.90	-1.39	-0.40	0.53	1.14	-0.72	**-4.98**
659	1,3,7,9,10,13,17,18,20,23,26,31,34,35,37,42,46,48,51	-0.15	0.66	-0.32	1.05	-0.80	-0.30	-0.16	0.14	-0.09	-0.90	1.10	1.01	-0.57	-0.40	0.53	1.14	-0.72	**1.22**
660	1,3,7,9,10,13,17,18,20,23,26,31,34,35,37,42,46,48,52,53,54	-0.48	0.66	-0.67	0.66	-0.27	-1.16	-0.40	0.31	0.03	-0.90	0.78	0.05	-1.05	-0.40	0.53	1.14	-0.72	**-1.87**
661	1,3,7,9,10,13,17,18,20,23,26,31,34,35,37,42,47,50,54	-1.36	0.92	-1.52	-0.38	0.61	-0.30	-1.11	0.31	0.74	-0.67	-0.51	-0.90	-1.39	-0.40	0.53	1.14	-0.72	**-5.01**
662	1,3,7,9,10,13,17,18,20,23,26,31,34,35,37,42,49,53,54	-1.41	0.66	-1.54	-0.44	0.58	-1.16	-1.35	0.83	0.16	-0.79	-0.32	0.05	-1.42	-0.40	0.53	1.14	-0.72	**-5.59**
663	1,3,7,9,10,13,17,18,20,23,26,31,34,36,39,41,40,42,46,48,51	1.18	1.44	0.81	1.31	-1.42	-0.30	0.56	0.28	-0.12	1.08	0.03	1.01	0.48	-0.40	0.53	1.14	-0.72	**6.88**
664	1,3,7,9,10,13,17,18,20,23,26,31,34,36,39,41,40,42,46,48,52,53,54	0.86	1.44	0.46	0.92	-0.89	-1.16	0.32	0.46	0.00	1.08	-0.29	0.05	-0.01	-0.40	0.53	1.14	-0.72	**3.79**
665	1,3,7,9,10,13,17,18,20,23,26,31,34,36,39,41,40,42,47,50,54	-0.03	1.70	-0.39	-0.13	-0.01	-0.30	-0.40	0.46	0.71	1.31	-1.57	-0.90	-0.35	-0.40	0.53	1.14	-0.72	**0.65**
666	1,3,7,9,10,13,17,18,20,23,26,31,34,36,39,41,40,42,49,53,54	-0.07	1.44	-0.41	-0.18	-0.03	-1.16	-0.64	0.98	0.13	1.18	-1.39	0.05	-0.38	-0.40	0.53	1.14	-0.72	**0.06**
667	1,3,7,9,10,13,17,18,20,23,26,31,34,36,39,41,43,47,46,48,51	1.18	1.70	0.81	1.39	-1.38	-0.30	0.56	0.28	-0.12	1.11	0.04	1.01	0.48	-0.40	0.53	1.14	-0.72	**7.30**
668	1,3,7,9,10,13,17,18,20,23,26,31,34,36,39,41,43,47,46,48,52,53,54	0.86	1.70	0.46	1.00	-0.84	-1.16	0.32	0.46	0.00	1.11	-0.28	0.05	-0.01	-0.40	0.53	1.14	-0.72	**4.22**
669	1,3,7,9,10,13,17,18,20,23,26,31,34,36,39,41,43,47,49,53,54	-0.07	1.96	-0.41	-0.10	0.01	-1.16	-0.64	0.98	0.13	1.21	-1.39	0.05	-0.38	-0.40	0.53	1.14	-0.72	**0.75**
670	1,3,7,9,10,13,17,18,20,23,26,31,34,36,39,41,43,50,54	-0.17	1.44	-0.43	-0.22	-0.06	-1.16	-0.40	0.46	0.71	1.26	-1.63	-0.90	-0.42	-0.40	0.53	1.14	-0.72	**-0.97**
671	1,3,7,9,10,13,17,18,20,23,26,31,34,36,39,44,55	-1.10	0.14	-0.08	-0.41	-0.16	-1.59	-1.59	0.28	0.45	1.23	-1.78	-0.90	-0.48	-0.40	0.53	1.14	-0.72	**-5.44**
672	1,3,7,9,10,13,17,18,20,23,26,31,34,36,39,45,55	0.60	1.18	0.76	0.61	-0.65	0.55	-0.40	0.86	1.78	2.04	-1.07	-0.90	0.39	-0.40	0.53	1.14	-0.72	**6.30**
673	1,3,7,9,10,13,17,18,20,23,26,31,34,38,40,42,46,48,51	-0.11	0.66	-0.32	1.02	-0.09	0.13	-0.16	0.50	0.23	-0.89	1.06	1.01	-0.56	-0.40	0.53	1.14	1.40	**5.17**
674	1,3,7,9,10,13,17,18,20,23,26,31,34,38,40,42,46,48,52,53,54	-0.44	0.66	-0.67	0.63	0.45	-0.73	-0.40	0.68	0.35	-0.89	0.74	0.05	-1.04	-0.40	0.53	1.14	1.40	**2.09**
675	1,3,7,9,10,13,17,18,20,23,26,31,34,38,40,42,47,50,54	-1.32	0.92	-1.52	-0.41	1.33	0.13	-1.11	0.68	1.06	-0.65	-0.55	-0.90	-1.38	-0.40	0.53	1.14	1.40	**-1.05**
676	1,3,7,9,10,13,17,18,20,23,26,31,34,38,40,42,49,53,54	-1.37	0.66	-1.54	-0.47	1.30	-0.73	-1.35	1.20	0.48	-0.78	-0.36	0.05	-1.42	-0.40	0.53	1.14	1.40	**-1.64**
677	1,3,7,9,10,13,17,18,20,23,26,31,34,38,41,44,55	-0.85	-0.12	-0.79	-0.70	1.17	-1.16	-1.35	0.50	0.81	-0.73	-0.07	-0.90	-0.89	-0.40	0.53	1.14	1.40	**-2.40**
678	1,3,7,9,10,13,17,18,20,23,26,31,34,38,41,45,55	0.85	0.92	0.05	0.32	0.68	0.98	-0.16	1.08	2.13	0.08	0.63	-0.90	-0.02	-0.40	0.53	1.14	1.40	**9.34**
679	1,3,7,9,10,13,17,18,20,23,26,31,34,38,43,47,46,48,51	-0.11	0.40	-0.32	1.10	-0.04	0.13	-0.16	0.50	0.23	-0.85	1.07	1.01	-0.56	-0.40	0.53	1.14	1.40	**5.08**
680	1,3,7,9,10,13,17,18,20,23,26,31,34,38,43,47,46,48,52,53,54	-0.44	0.40	-0.67	0.71	0.49	-0.73	-0.40	0.68	0.35	-0.85	0.75	0.05	-1.04	-0.40	0.53	1.14	1.40	**2.00**
681	1,3,7,9,10,13,17,18,20,23,26,31,34,38,43,47,49,53,54	-1.36	0.66	-1.54	-0.39	1.35	-0.73	-1.35	1.20	0.48	-0.75	-0.36	0.05	-1.41	-0.40	0.53	1.14	1.40	**-1.47**
682	1,3,7,9,10,13,17,18,20,23,26,31,34,38,43,50,54	-1.46	0.14	-1.56	-0.50	1.28	-0.73	-1.11	0.68	1.06	-0.71	-0.60	-0.90	-1.45	-0.40	0.53	1.14	1.40	**-3.19**
683	1,3,7,9,10,13,17,18,20,23,26,33,37,40,41,44,55	-0.83	-0.64	-0.79	-0.69	0.10	-0.73	-1.11	0.14	0.18	-0.73	-0.05	-0.90	-0.85	-0.40	0.53	1.14	-0.72	**-6.34**
684	1,3,7,9,10,13,17,18,20,23,26,33,37,40,41,45,55	0.87	0.40	0.05	0.33	-0.39	1.41	0.08	0.71	1.50	0.09	0.66	-0.90	0.03	-0.40	0.53	1.14	-0.72	**5.40**
685	1,3,7,9,10,13,17,18,20,23,26,33,37,40,43,47,46,48,51	-0.08	0.40	-0.31	1.11	-1.12	0.55	0.08	0.14	-0.39	-0.85	1.08	1.01	-0.51	-0.40	0.53	1.14	-0.72	**1.66**
686	1,3,7,9,10,13,17,18,20,23,26,33,37,40,43,47,46,48,52,53,54	-0.41	0.40	-0.67	0.72	-0.58	-0.30	-0.16	0.31	-0.27	-0.85	0.77	0.05	-1.00	-0.40	0.53	1.14	-0.72	**-1.43**
687	1,3,7,9,10,13,17,18,20,23,26,33,37,40,43,47,49,53,54	-1.34	0.66	-1.53	-0.38	0.27	-0.30	-1.11	0.83	-0.15	-0.74	-0.34	0.05	-1.37	-0.40	0.53	1.14	-0.72	**-4.89**
688	1,3,7,9,10,13,17,18,20,23,26,33,37,40,43,50,54	-1.44	0.14	-1.55	-0.50	0.20	-0.30	-0.87	0.31	0.44	-0.70	-0.58	-0.90	-1.41	-0.40	0.53	1.14	-0.72	**-6.61**
689	1,3,7,9,10,13,17,18,20,23,26,33,37,42,46,48,51	-0.22	-0.38	-0.35	1.03	-1.16	-0.30	0.08	0.14	-0.39	-0.88	1.05	1.01	-0.59	-0.40	0.53	1.14	-0.72	**-0.42**
690	1,3,7,9,10,13,17,18,20,23,26,33,37,42,46,48,52,53,54	-0.54	-0.38	-0.70	0.64	-0.63	-1.16	-0.16	0.31	-0.27	-0.88	0.73	0.05	-1.07	-0.40	0.53	1.14	-0.72	**-3.50**
691	1,3,7,9,10,13,17,18,20,23,26,33,37,42,47,50,54	-1.43	-0.12	-1.55	-0.41	0.25	-0.30	-0.87	0.31	0.44	-0.65	-0.56	-0.90	-1.41	-0.40	0.53	1.14	-0.72	**-6.64**
692	1,3,7,9,10,13,17,18,20,23,26,33,37,42,49,53,54	-1.47	-0.38	-1.57	-0.46	0.23	-1.16	-1.11	0.83	-0.15	-0.78	-0.38	0.05	-1.44	-0.40	0.53	1.14	-0.72	**-7.23**
693	1,3,7,9,10,13,17,18,20,23,27,28,31,30,32,46,47,50,54	1.10	1.70	0.10	-0.66	0.40	1.41	1.28	-0.28	1.73	0.25	0.55	-0.90	0.67	0.33	0.53	-0.77	0.98	**8.41**

Westar Energy- JEC to East Manhattan
345/230 kV Transmission Line Project
Table F-2: Raw Scores for All Routes

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
694	1,3,7,9,10,13,17,18,20,23,27,28,31,30,32,46,49,53,54	1.05	1.44	0.08	-0.71	0.37	0.55	1.04	0.24	1.15	0.12	0.71	0.05	0.63	0.33	0.53	-0.77	0.98	**7.80**
695	1,3,7,9,10,13,17,18,20,23,27,28,31,30,32,48,51	0.55	0.92	0.83	-1.30	-1.59	1.41	1.75	-0.46	0.91	0.01	0.21	-0.90	1.14	0.33	0.53	-0.77	0.98	**4.55**
696	1,3,7,9,10,13,17,18,20,23,27,28,31,30,32,48,52,53,54	0.23	0.92	0.47	-1.69	-1.05	0.55	1.52	-0.28	1.03	0.01	-0.11	-1.85	0.66	0.33	0.53	-0.77	0.98	**1.47**
697	1,3,7,9,10,13,17,18,20,23,27,28,31,33,37,40,41,44,55	-0.79	-0.12	-0.83	-0.66	0.30	-0.73	-1.11	0.14	-0.17	-0.36	-0.31	-0.90	-0.88	-0.40	0.53	-0.77	-0.72	**-7.78**
698	1,3,7,9,10,13,17,18,20,23,27,28,31,33,37,40,41,45,55	0.91	0.92	0.01	0.36	-0.19	1.41	0.08	0.71	1.15	0.45	0.40	-0.90	-0.01	-0.40	0.53	-0.77	-0.72	**3.96**
699	1,3,7,9,10,13,17,18,20,23,27,28,31,33,37,40,43,47,46,48,51	-0.05	0.92	-0.35	1.14	-0.91	0.55	0.08	0.14	-0.75	-0.48	0.83	1.01	-0.55	-0.40	0.53	-0.77	-0.72	**0.22**
700	1,3,7,9,10,13,17,18,20,23,27,28,31,33,37,40,43,47,46,48,52,53,54	-0.38	0.92	-0.71	0.75	-0.38	-0.30	-0.16	0.31	-0.62	-0.48	0.51	0.05	-1.03	-0.40	0.53	-0.77	-0.72	**-2.87**
701	1,3,7,9,10,13,17,18,20,23,27,28,31,33,37,40,43,47,49,53,54	-1.30	1.18	-1.57	-0.35	0.48	-0.30	-1.11	0.83	-0.50	-0.37	-0.60	0.05	-1.40	-0.40	0.53	-0.77	-0.72	**-6.33**
702	1,3,7,9,10,13,17,18,20,23,27,28,31,33,37,40,43,50,54	-1.40	0.66	-1.59	-0.47	0.41	-0.30	-0.87	0.31	0.08	-0.33	-0.84	-0.90	-1.45	-0.40	0.53	-0.77	-0.72	**-8.05**
703	1,3,7,9,10,13,17,18,20,23,27,28,31,33,37,42,46,48,51	-0.18	0.14	-0.39	1.06	-0.96	-0.30	0.08	0.14	-0.75	-0.51	0.79	1.01	-0.62	-0.40	0.53	-0.77	-0.72	**-1.85**
704	1,3,7,9,10,13,17,18,20,23,27,28,31,33,37,42,46,48,52,53,54	-0.51	0.14	-0.74	0.67	-0.42	-1.16	-0.16	0.31	-0.62	-0.51	0.47	0.05	-1.11	-0.40	0.53	-0.77	-0.72	**-4.94**
705	1,3,7,9,10,13,17,18,20,23,27,28,31,33,37,42,47,50,54	-1.39	0.40	-1.59	-0.38	0.46	-0.30	-0.87	0.31	0.08	-0.28	-0.82	-0.90	-1.44	-0.40	0.53	-0.77	-0.72	**-8.08**
706	1,3,7,9,10,13,17,18,20,23,27,28,31,33,37,42,49,53,54	-1.44	0.14	-1.61	-0.43	0.43	-1.16	-1.11	0.83	-0.50	-0.41	-0.63	0.05	-1.48	-0.40	0.53	-0.77	-0.72	**-8.67**
707	1,3,7,9,10,13,17,18,20,23,27,28,34,35,37,40,41,44,55	-0.82	-0.12	-0.82	-0.64	0.66	-0.73	-1.35	0.14	0.13	-0.40	-0.33	-0.90	-0.93	-0.40	0.53	-0.77	-0.72	**-7.47**
708	1,3,7,9,10,13,17,18,20,23,27,28,34,35,37,40,41,45,55	0.88	0.92	0.02	0.38	0.17	1.41	-0.16	0.71	1.45	0.41	0.38	-0.90	-0.05	-0.40	0.53	-0.77	-0.72	**4.27**
709	1,3,7,9,10,13,17,18,20,23,27,28,34,35,37,40,43,47,46,48,51	-0.08	0.92	-0.34	1.16	-0.56	0.55	-0.16	0.14	-0.44	-0.52	0.80	1.01	-0.59	-0.40	0.53	-0.77	-0.72	**0.53**
710	1,3,7,9,10,13,17,18,20,23,27,28,34,35,37,40,43,47,46,48,52,53,54	-0.40	0.92	-0.70	0.77	-0.02	-0.30	-0.40	0.31	-0.32	-0.52	0.48	0.05	-1.08	-0.40	0.53	-0.77	-0.72	**-2.56**
711	1,3,7,9,10,13,17,18,20,23,27,28,34,35,37,40,43,47,49,53,54	-1.33	1.18	-1.57	-0.33	0.83	-0.30	-1.35	0.83	-0.20	-0.42	-0.62	0.05	-1.45	-0.40	0.53	-0.77	-0.72	**-6.03**
712	1,3,7,9,10,13,17,18,20,23,27,28,34,35,37,40,43,50,54	-1.43	0.66	-1.59	-0.45	0.77	-0.30	-1.11	0.31	0.38	-0.37	-0.86	-0.90	-1.49	-0.40	0.53	-0.77	-0.72	**-7.74**
713	1,3,7,9,10,13,17,18,20,23,27,28,34,35,37,42,46,48,51	-0.21	0.14	-0.38	1.08	-0.60	-0.30	-0.16	0.14	-0.44	-0.55	0.76	1.01	-0.67	-0.40	0.53	-0.77	-0.72	**-1.55**
714	1,3,7,9,10,13,17,18,20,23,27,28,34,35,37,42,46,48,52,53,54	-0.54	0.14	-0.74	0.69	-0.06	-1.16	-0.40	0.31	-0.32	-0.55	0.44	0.05	-1.15	-0.40	0.53	-0.77	-0.72	**-4.63**
715	1,3,7,9,10,13,17,18,20,23,27,28,34,35,37,42,47,50,54	-1.42	0.40	-1.59	-0.36	0.82	-0.30	-1.11	0.31	0.38	-0.32	-0.84	-0.90	-1.49	-0.40	0.53	-0.77	-0.72	**-7.77**
716	1,3,7,9,10,13,17,18,20,23,27,28,34,35,37,42,49,53,54	-1.46	0.14	-1.61	-0.41	0.79	-1.16	-1.35	0.83	-0.20	-0.45	-0.66	0.05	-1.52	-0.40	0.53	-0.77	-0.72	**-8.36**
717	1,3,7,9,10,13,17,18,20,23,27,28,34,36,39,41,40,42,46,48,51	1.12	0.92	0.75	1.33	-1.22	-0.30	0.56	0.28	-0.47	1.42	-0.30	1.01	0.38	-0.40	0.53	-0.77	-0.72	**4.11**
718	1,3,7,9,10,13,17,18,20,23,27,28,34,36,39,41,40,42,46,48,52,53,54	0.80	0.92	0.39	0.95	-0.68	-1.16	0.32	0.46	-0.35	1.42	-0.62	0.05	-0.11	-0.40	0.53	-0.77	-0.72	**1.02**
719	1,3,7,9,10,13,17,18,20,23,27,28,34,36,39,41,40,42,47,50,54	-0.09	1.18	-0.46	-0.10	0.20	-0.30	-0.40	0.46	0.35	1.65	-1.91	-0.90	-0.44	-0.40	0.53	-0.77	-0.72	**-2.12**
720	1,3,7,9,10,13,17,18,20,23,27,28,34,36,39,41,40,42,49,53,54	-0.13	0.92	-0.48	-0.15	0.17	-1.16	-0.64	0.98	-0.23	1.52	-1.73	0.05	-0.48	-0.40	0.53	-0.77	-0.72	**-2.70**
721	1,3,7,9,10,13,17,18,20,23,27,28,34,36,39,41,43,47,46,48,51	1.13	1.18	0.75	1.41	-1.17	-0.30	0.56	0.28	-0.47	1.45	-0.30	1.01	0.38	-0.40	0.53	-0.77	-0.72	**4.54**
722	1,3,7,9,10,13,17,18,20,23,27,28,34,36,39,41,43,47,46,48,52,53,54	0.80	1.18	0.39	1.03	-0.64	-1.16	0.32	0.46	-0.35	1.45	-0.62	0.05	-0.10	-0.40	0.53	-0.77	-0.72	**1.45**
723	1,3,7,9,10,13,17,18,20,23,27,28,34,36,39,41,43,47,49,53,54	-0.13	1.44	-0.48	-0.07	0.22	-1.16	-0.64	0.98	-0.23	1.56	-1.72	0.05	-0.48	-0.40	0.53	-0.77	-0.72	**-2.01**
724	1,3,7,9,10,13,17,18,20,23,27,28,34,36,39,41,43,50,54	-0.23	0.92	-0.50	-0.19	0.15	-1.16	-0.40	0.46	0.35	1.60	-1.96	-0.90	-0.52	-0.40	0.53	-0.77	-0.72	**-3.73**
725	1,3,7,9,10,13,17,18,20,23,27,28,34,36,39,44,55	-1.16	-0.38	-0.15	-0.38	0.04	-1.59	-1.59	0.28	0.10	1.58	-2.12	-0.90	-0.58	-0.40	0.53	-0.77	-0.72	**-8.21**
726	1,3,7,9,10,13,17,18,20,23,27,28,34,36,39,45,55	0.54	0.66	0.69	0.64	-0.45	0.55	-0.40	0.86	1.42	2.39	-1.41	-0.90	0.29	-0.40	0.53	-0.77	-0.72	**3.53**
727	1,3,7,9,10,13,17,18,20,23,27,28,34,38,40,42,46,48,51	-0.17	0.14	-0.38	1.05	0.12	0.13	-0.16	0.50	-0.12	-0.54	0.72	1.01	-0.66	-0.40	0.53	-0.77	1.40	**2.41**
728	1,3,7,9,10,13,17,18,20,23,27,28,34,38,40,42,46,48,52,53,54	-0.50	0.14	-0.74	0.66	0.66	-0.73	-0.40	0.68	0.00	-0.54	0.41	0.05	-1.14	-0.40	0.53	-0.77	1.40	**-0.68**
729	1,3,7,9,10,13,17,18,20,23,27,28,34,38,40,42,47,50,54	-1.38	0.40	-1.59	-0.39	1.54	0.13	-1.11	0.68	0.71	-0.31	-0.88	-0.90	-1.48	-0.40	0.53	-0.77	1.40	**-3.82**
730	1,3,7,9,10,13,17,18,20,23,27,28,34,38,40,42,49,53,54	-1.42	0.14	-1.61	-0.44	1.51	-0.73	-1.35	1.20	0.13	-0.44	-0.70	0.05	-1.51	-0.40	0.53	-0.77	1.40	**-4.40**
731	1,3,7,9,10,13,17,18,20,23,27,28,34,38,41,44,55	-0.91	-0.64	-0.86	-0.67	1.38	-1.16	-1.35	0.50	0.45	-0.39	-0.41	-0.90	-0.99	-0.40	0.53	-0.77	1.40	**-5.17**
732	1,3,7,9,10,13,17,18,20,23,27,28,34,38,41,45,55	0.79	0.40	-0.02	0.35	0.89	0.98	-0.16	1.08	1.78	0.42	0.30	-0.90	-0.11	-0.40	0.53	-0.77	1.40	**6.57**
733	1,3,7,9,10,13,17,18,20,23,27,28,34,38,43,47,46,48,51	-0.17	-0.12	-0.38	1.13	0.16	0.13	-0.16	0.50	-0.12	-0.51	0.73	1.01	-0.65	-0.40	0.53	-0.77	1.40	**2.32**
734	1,3,7,9,10,13,17,18,20,23,27,28,34,38,43,47,46,48,52,53,54	-0.49	-0.12	-0.74	0.74	0.70	-0.73	-0.40	0.68	0.00	-0.51	0.41	0.05	-1.14	-0.40	0.53	-0.77	1.40	**-0.77**
735	1,3,7,9,10,13,17,18,20,23,27,28,34,38,43,47,49,53,54	-1.42	0.14	-1.60	-0.36	1.55	-0.73	-1.35	1.20	0.13	-0.41	-0.69	0.05	-1.51	-0.40	0.53	-0.77	1.40	**-4.23**
736	1,3,7,9,10,13,17,18,20,23,27,28,34,38,43,50,54	-1.52	-0.38	-1.62	-0.48	1.49	-0.73	-1.11	0.68	0.71	-0.36	-0.94	-0.90	-1.55	-0.40	0.53	-0.77	1.40	**-5.95**
737	1,3,7,9,10,13,17,19,22,24,29,36,35,37,40,41,44,55	0.74	0.66	0.52	-1.16	-0.43	0.13	-0.16	-0.91	-0.09	-0.52	0.40	-0.90	0.99	1.68	0.53	-0.77	-0.72	**-0.01**
738	1,3,7,9,10,13,17,19,22,24,29,36,35,37,40,41,45,55	2.44	1.70	1.36	-0.14	-0.93	2.27	1.04	-0.34	1.23	0.29	1.10	-0.90	1.87	1.68	0.53	-0.77	-0.72	**11.72**
739	1,3,7,9,10,13,17,19,22,24,29,36,35,37,40,43,47,46,48,51	1.49	1.70	1.00	0.64	-1.65	1.41	1.04	-0.91	-0.66	-0.64	1.53	1.01	1.33	1.68	0.53	-0.77	-0.72	**7.98**
740	1,3,7,9,10,13,17,19,22,24,29,36,35,37,40,43,47,46,48,52,53,54	1.16	1.70	0.64	0.25	-1.11	0.55	0.80	-0.73	-0.54	-0.64	1.21	0.05	0.84	1.68	0.53	-0.77	-0.72	**4.90**
741	1,3,7,9,10,13,17,19,22,24,29,36,35,37,40,43,47,49,53,54	0.23	1.96	-0.23	-0.85	-0.26	0.55	-0.16	-0.21	-0.42	-0.54	0.11	0.05	0.47	1.68	0.53	-0.77	-0.72	**1.43**
742	1,3,7,9,10,13,17,19,22,24,29,36,35,37,40,43,50,54	0.13	1.44	-0.25	-0.96	-0.33	0.55	0.08	-0.73	0.17	-0.50	-0.13	-0.90	0.43	1.68	0.53	-0.77	-0.72	**-0.29**
743	1,3,7,9,10,13,17,19,22,24,29,36,35,37,42,46,48,51	1.35	0.92	0.96	0.56	-1.70	0.55	1.04	-0.91	-0.66	-0.68	1.49	1.01	1.26	1.68	0.53	-0.77	-0.72	**5.91**
744	1,3,7,9,10,13,17,19,22,24,29,36,35,37,42,46,48,52,53,54	1.03	0.92	0.60	0.17	-1.16	-0.30	0.80	-0.73	-0.54	-0.68	1.17	0.05	0.77	1.68	0.53	-0.77	-0.72	**2.83**
745	1,3,7,9,10,13,17,19,22,24,29,36,35,37,42,47,50,54	0.14	1.18	-0.25	-0.87	-0.28	0.55	0.08	-0.73	0.17	-0.44	-0.11	-0.90	0.43	1.68	0.53	-0.77	-0.72	**-0.31**
746	1,3,7,9,10,13,17,19,22,24,29,36,35,37,42,49,53,54	0.10	0.92	-0.26	-0.93	-0.31	-0.30	-0.16	-0.21	-0.42	-0.57	0.07	0.05	0.40	1.68	0.53	-0.77	-0.72	**-0.90**
747	1,3,7,9,10,13,17,19,22,24,29,36,38,40,42,46,48,51	1.39	1.18	0.96	0.53	-0.98	0.98	1.04	-0.54	-0.34	-0.66	1.45	1.01	1.26	1.68	0.53	-0.77	1.40	**10.12**
748	1,3,7,9,10,13,17,19,22,24,29,36,38,40,42,46,48,52,53,54	1.07	1.18	0.60	0.14	-0.44	0.13	0.80	-0.37	-0.22	-0.66	1.13	0.05	0.78	1.68	0.53	-0.77	1.40	**7.04**
749	1,3,7,9,10,13,17,19,22,24,29,36,38,40,42,47,50,54	0.18	1.44	-0.25	-0.90	0.44	0.98	0.08	-0.37	0.49	-0.43	-0.15	-0.90	0.44	1.68	0.53	-0.77	1.40	**3.90**
750	1,3,7,9,10,13,17,19,22,24,29,36,38,40,42,49,53,54	0.14	1.18	-0.27	-0.96	0.41	0.13	-0.16	0.15	-0.09	-0.56	0.03	0.05	0.41	1.68	0.53	-0.77	1.40	**3.31**
751	1,3,7,9,10,13,17,19,22,24,29,36,38,41,44,55	0.65	0.40	0.48	-1.19	0.28	-0.30	-0.16	-0.54	0.23	-0.51	0.32	-0.90	0.93	1.68	0.53	-0.77	1.40	**2.55**
752	1,3,7,9,10,13,17,19,22,24,29,36,38,41,45,55	2.35	1.44	1.32	-0.17	-0.21	1.84	1.04	0.03	1.56	0.30	1.03	-0.90	1.81	1.68	0.53	-0.77	1.40	**14.29**
753	1,3,7,9,10,13,17,19,22,24,29,36,38,43,47,46,48,51	1.40	0.92	0.96	0.61	-0.93	0.98	1.04	-0.54	-0.34	-0.63	1.46	1.01	1.27	1.68	0.53	-0.77	1.40	**10.03**
754	1,3,7,9,10,13,17,19,22,24,29,36,38,43,47,46,48,52,53,54	1.07	0.92	0.60	0.22	-0.40	0.13	0.80	-0.37	-0.22	-0.63	1.14	0.05	0.78	1.68	0.53	-0.77	1.40	**6.95**
755	1,3,7,9,10,13,17,19,22,24,29,36,38,43,47,49,53,54	0.14	1.18	-0.26	-0.88	0.45	0.13	-0.16	0.15	-0.09	-0.53	0.04	0.05	0.41	1.68	0.53	-0.77	1.40	**3.48**
756	1,3,7,9,10,13,17,19,22,24,29,36,38,43,50,54	0.04	0.66	-0.28	-0.99	0.39	0.13	0.08	-0.37	0.49	-0.48	-0.21	-0.90	0.37	1.68	0.53	-0.77	1.40	**1.76**

Table F-2: Raw Scores for All Routes

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
757	1,3,7,9,10,13,17,19,22,24,29,39,41,40,42,46,48,51	1.59	0.92	1.79	0.19	-2.31	-0.30	1.75	-0.77	-0.69	0.66	0.18	1.01	1.74	1.68	0.53	-0.77	-0.72	**6.48**
758	1,3,7,9,10,13,17,19,22,24,29,39,41,40,42,46,48,52,53,54	1.27	0.92	1.43	-0.20	-1.78	-1.16	1.52	-0.59	-0.57	0.66	-0.13	0.05	1.26	1.68	0.53	-0.77	-0.72	**3.39**
759	1,3,7,9,10,13,17,19,22,24,29,39,41,40,42,47,50,54	0.38	1.18	0.59	-1.25	-0.90	-0.30	0.80	-0.59	0.14	0.89	-1.42	-0.90	0.92	1.68	0.53	-0.77	-0.72	**0.25**
760	1,3,7,9,10,13,17,19,22,24,29,39,41,40,42,49,53,54	0.34	0.92	0.57	-1.30	-0.92	-1.16	0.56	-0.07	-0.45	0.76	-1.24	0.05	0.89	1.68	0.53	-0.77	-0.72	**-0.34**
761	1,3,7,9,10,13,17,19,22,24,29,39,41,43,47,46,48,51	1.60	1.18	1.79	0.27	-2.27	-0.30	1.75	-0.77	-0.69	0.69	0.19	1.01	1.75	1.68	0.53	-0.77	-0.72	**6.90**
762	1,3,7,9,10,13,17,19,22,24,29,39,41,43,47,46,48,52,53,54	1.27	1.18	1.44	-0.12	-1.73	-1.16	1.52	-0.59	-0.57	0.69	-0.13	0.05	1.26	1.68	0.53	-0.77	-0.72	**3.82**
763	1,3,7,9,10,13,17,19,22,24,29,39,41,43,47,49,53,54	0.34	1.44	0.57	-1.22	-0.88	-1.16	0.56	-0.07	-0.45	0.79	-1.23	0.05	0.89	1.68	0.53	-0.77	-0.72	**0.35**
764	1,3,7,9,10,13,17,19,22,24,29,39,41,43,50,54	0.24	0.92	0.55	-1.34	-0.95	-1.16	0.80	-0.59	0.14	0.84	-1.48	-0.90	0.85	1.68	0.53	-0.77	-0.72	**-1.37**
765	1,3,7,9,10,13,17,19,22,24,29,39,44,55	-0.69	-0.38	0.90	-1.53	-1.05	-1.59	-0.40	-0.77	-0.12	0.81	-1.63	-0.90	0.78	1.68	0.53	-0.77	-0.72	**-5.84**
766	1,3,7,9,10,13,17,19,22,24,29,39,45,55	1.01	0.66	1.74	-0.51	-1.54	0.55	0.80	-0.19	1.20	1.62	-0.92	-0.90	1.66	1.68	0.53	-0.77	-0.72	**5.90**
767	1,3,7,9,10,13,17,19,22,25,29,36,35,37,40,41,44,55	0.53	0.40	0.46	-1.59	-0.10	0.13	0.08	-0.89	-0.53	-0.45	0.03	-0.90	0.93	1.71	0.53	-0.77	-0.72	**-1.14**
768	1,3,7,9,10,13,17,19,22,25,29,36,35,37,40,41,45,55	2.23	1.44	1.30	-0.57	-0.59	2.27	1.28	-0.31	0.80	0.36	0.74	-0.90	1.81	1.71	0.53	-0.77	-0.72	**10.59**
769	1,3,7,9,10,13,17,19,22,25,29,36,35,37,40,43,47,46,48,51	1.27	1.44	0.94	0.21	-1.32	1.41	1.28	-0.89	-1.10	-0.57	1.16	1.01	1.27	1.71	0.53	-0.77	-0.72	**6.85**
770	1,3,7,9,10,13,17,19,22,25,29,36,35,37,40,43,47,46,48,52,53,54	0.95	1.44	0.58	-0.18	-0.78	0.55	1.04	-0.71	-0.98	-0.57	0.85	0.05	0.79	1.71	0.53	-0.77	-0.72	**3.77**
771	1,3,7,9,10,13,17,19,22,25,29,36,35,37,40,43,47,49,53,54	0.02	1.70	-0.29	-1.28	0.07	0.55	0.08	-0.19	-0.85	-0.47	-0.26	0.05	0.41	1.71	0.53	-0.77	-0.72	**0.30**
772	1,3,7,9,10,13,17,19,22,25,29,36,35,37,40,43,50,54	-0.08	1.18	-0.31	-1.40	0.00	0.55	0.32	-0.71	-0.27	-0.43	-0.50	-0.90	0.37	1.71	0.53	-0.77	-0.72	**-1.42**
773	1,3,7,9,10,13,17,19,22,25,29,36,35,37,42,46,48,51	1.14	0.66	0.90	0.13	-1.36	0.55	1.28	-0.89	-1.10	-0.61	1.13	1.01	1.20	1.71	0.53	-0.77	-0.72	**4.78**
774	1,3,7,9,10,13,17,19,22,25,29,36,35,37,42,46,48,52,53,54	0.81	0.66	0.54	-0.26	-0.83	-0.30	1.04	-0.71	-0.98	-0.61	0.81	0.05	0.71	1.71	0.53	-0.77	-0.72	**1.69**
775	1,3,7,9,10,13,17,19,22,25,29,36,35,37,42,47,50,54	-0.07	0.92	-0.30	-1.31	0.05	0.55	0.32	-0.71	-0.27	-0.37	-0.48	-0.90	0.38	1.71	0.53	-0.77	-0.72	**-1.44**
776	1,3,7,9,10,13,17,19,22,25,29,36,35,37,42,49,53,54	-0.12	0.66	-0.32	-1.36	0.03	-0.30	0.08	-0.19	-0.85	-0.50	-0.30	0.05	0.34	1.71	0.53	-0.77	-0.72	**-2.03**
777	1,3,7,9,10,13,17,19,22,25,29,36,38,40,42,46,48,51	1.18	0.92	0.90	0.10	-0.65	0.98	1.28	-0.52	-0.78	-0.59	1.09	1.01	1.20	1.71	0.53	-0.77	1.40	**8.99**
778	1,3,7,9,10,13,17,19,22,25,29,36,38,40,42,46,48,52,53,54	0.85	0.92	0.54	-0.29	-0.11	0.13	1.04	-0.34	-0.66	-0.59	0.77	0.05	0.72	1.71	0.53	-0.77	1.40	**5.91**
779	1,3,7,9,10,13,17,19,22,25,29,36,38,40,42,47,50,54	-0.03	1.18	-0.30	-1.34	0.77	0.98	0.32	-0.34	0.05	-0.36	-0.52	-0.90	0.38	1.71	0.53	-0.77	1.40	**2.77**
780	1,3,7,9,10,13,17,19,22,25,29,36,38,40,42,49,53,54	-0.08	0.92	-0.32	-1.39	0.74	0.13	0.08	0.18	-0.53	-0.49	-0.34	0.05	0.35	1.71	0.53	-0.77	1.40	**2.18**
781	1,3,7,9,10,13,17,19,22,25,29,36,38,41,44,55	0.44	0.14	0.43	-1.62	0.62	-0.30	0.08	-0.52	-0.21	-0.44	-0.04	-0.90	0.87	1.71	0.53	-0.77	1.40	**1.42**
782	1,3,7,9,10,13,17,19,22,25,29,36,38,41,45,55	2.14	1.18	1.27	-0.60	0.12	1.84	1.28	0.06	1.12	0.37	0.66	-0.90	1.75	1.71	0.53	-0.77	1.40	**13.16**
783	1,3,7,9,10,13,17,19,22,25,29,36,38,43,47,46,48,51	1.18	0.66	0.90	0.18	-0.60	0.98	1.28	-0.52	-0.78	-0.56	1.09	1.01	1.21	1.71	0.53	-0.77	1.40	**8.90**
784	1,3,7,9,10,13,17,19,22,25,29,36,38,43,47,46,48,52,53,54	0.85	0.66	0.55	-0.21	-0.06	0.13	1.04	-0.34	-0.66	-0.56	0.77	0.05	0.72	1.71	0.53	-0.77	1.40	**5.82**
785	1,3,7,9,10,13,17,19,22,25,29,36,38,43,47,49,53,54	-0.07	0.92	-0.32	-1.31	0.79	0.13	0.08	0.18	-0.53	-0.46	-0.33	0.05	0.35	1.71	0.53	-0.77	1.40	**2.35**
786	1,3,7,9,10,13,17,19,22,25,29,36,38,43,50,54	-0.17	0.40	-0.34	-1.43	0.72	0.13	0.32	-0.34	0.05	-0.41	-0.57	-0.90	0.31	1.71	0.53	-0.77	1.40	**0.63**
787	1,3,7,9,10,13,17,19,22,25,29,39,41,40,42,46,48,51	1.38	0.66	1.73	-0.25	-1.98	-0.30	1.99	-0.75	-1.13	0.73	-0.18	1.01	1.68	1.71	0.53	-0.77	-0.72	**5.34**
788	1,3,7,9,10,13,17,19,22,25,29,39,41,40,42,46,48,52,53,54	1.05	0.66	1.38	-0.63	-1.44	-1.16	1.75	-0.57	-1.01	0.73	-0.50	0.05	1.20	1.71	0.53	-0.77	-0.72	**2.26**
789	1,3,7,9,10,13,17,19,22,25,29,39,41,40,42,47,50,54	0.17	0.92	0.53	-1.68	-0.56	-0.30	1.04	-0.57	-0.30	0.96	-1.79	-0.90	0.86	1.71	0.53	-0.77	-0.72	**-0.88**
790	1,3,7,9,10,13,17,19,22,25,29,39,41,40,42,49,53,54	0.13	0.66	0.51	-1.73	-0.59	-1.16	0.80	-0.05	-0.88	0.83	-1.60	0.05	0.83	1.71	0.53	-0.77	-0.72	**-1.47**
791	1,3,7,9,10,13,17,19,22,25,29,39,41,43,47,46,48,51	1.38	0.92	1.73	-0.17	-1.94	-0.30	1.99	-0.75	-1.13	0.76	-0.18	1.01	1.69	1.71	0.53	-0.77	-0.72	**5.77**
792	1,3,7,9,10,13,17,19,22,25,29,39,41,43,47,46,48,52,53,54	1.06	0.92	1.38	-0.55	-1.40	-1.16	1.75	-0.57	-1.01	0.76	-0.50	0.05	1.20	1.71	0.53	-0.77	-0.72	**2.69**
793	1,3,7,9,10,13,17,19,22,25,29,39,41,43,47,49,53,54	0.13	1.18	0.51	-1.65	-0.55	-1.16	0.80	-0.05	-0.88	0.86	-1.60	0.05	0.83	1.71	0.53	-0.77	-0.72	**-0.78**
794	1,3,7,9,10,13,17,19,22,25,29,39,41,43,50,54	0.03	0.66	0.49	-1.77	-0.61	-1.16	1.04	-0.57	-0.30	0.91	-1.84	-0.90	0.79	1.71	0.53	-0.77	-0.72	**-2.50**
795	1,3,7,9,10,13,17,19,22,25,29,39,44,55	-0.91	-0.64	0.84	-1.96	-0.72	-1.59	-0.16	-0.75	-0.56	0.88	-1.99	-0.90	0.72	1.71	0.53	-0.77	-0.72	**-6.97**
796	1,3,7,9,10,13,17,19,22,25,29,39,45,55	0.79	0.40	1.68	-0.94	-1.21	0.55	1.04	-0.17	0.77	1.69	-1.29	-0.90	1.60	1.71	0.53	-0.77	-0.72	**4.76**
797	1,3,7,9,10,13,17,21,27,26,30,32,46,47,50,54	1.07	1.70	0.28	-0.93	0.23	2.27	1.75	-0.97	1.55	-0.57	1.23	-0.90	0.97	0.43	0.53	1.14	0.98	**10.75**
798	1,3,7,9,10,13,17,21,27,26,30,32,46,49,53,54	1.02	1.44	0.26	-0.98	0.20	1.41	1.52	-0.45	0.97	-0.70	1.39	0.05	0.94	0.43	0.53	1.14	0.98	**10.14**
799	1,3,7,9,10,13,17,21,27,26,30,32,48,51	0.52	0.92	1.01	-1.58	-1.76	2.27	2.23	-1.15	0.72	-0.80	0.88	-0.90	1.45	0.43	0.53	1.14	0.98	**6.90**
800	1,3,7,9,10,13,17,21,27,26,30,32,48,52,53,54	0.20	0.92	0.65	-1.96	-1.22	1.41	1.99	-0.97	0.85	-0.80	0.56	-1.85	0.96	0.43	0.53	1.14	0.98	**3.81**
801	1,3,7,9,10,13,17,21,27,26,31,34,35,37,40,41,44,55	-0.76	0.40	-0.61	-0.91	0.49	0.13	-0.87	-0.55	-0.05	-1.19	0.42	-0.90	-0.56	-0.30	0.53	1.14	-0.72	**-4.32**
802	1,3,7,9,10,13,17,21,27,26,31,34,35,37,40,41,45,55	0.94	1.44	0.23	0.11	0.00	2.27	0.32	0.02	1.27	-0.38	1.13	-0.90	0.32	-0.30	0.53	1.14	-0.72	**7.42**
803	1,3,7,9,10,13,17,21,27,26,31,34,35,37,40,43,47,46,48,51	-0.01	1.44	-0.14	0.88	-0.73	1.41	0.32	-0.55	-0.63	-1.31	1.56	1.01	-0.22	-0.30	0.53	1.14	-0.72	**3.68**
804	1,3,7,9,10,13,17,21,27,26,31,34,35,37,40,43,47,46,48,52,53,54	-0.34	1.44	-0.49	0.50	-0.19	0.55	0.08	-0.38	-0.50	-1.31	1.24	0.05	-0.71	-0.30	0.53	1.14	-0.72	**0.59**
805	1,3,7,9,10,13,17,21,27,26,31,34,35,37,40,43,47,49,53,54	-1.27	1.70	-1.36	-0.60	0.66	0.55	-0.87	0.14	-0.38	-1.20	0.13	0.05	-1.08	-0.30	0.53	1.14	-0.72	**-2.87**
806	1,3,7,9,10,13,17,21,27,26,31,34,35,37,40,43,50,54	-1.37	1.18	-1.38	-0.72	0.60	0.55	-0.64	-0.38	0.20	-1.16	-0.11	-0.90	-1.12	-0.30	0.53	1.14	-0.72	**-4.59**
807	1,3,7,9,10,13,17,21,27,26,31,34,35,37,42,46,48,51	-0.15	0.66	-0.17	0.80	-0.77	0.55	0.32	-0.55	-0.63	-1.34	1.52	1.01	-0.30	-0.30	0.53	1.14	-0.72	**1.60**
808	1,3,7,9,10,13,17,21,27,26,31,34,35,37,42,46,48,52,53,54	-0.47	0.66	-0.53	0.42	-0.23	-0.30	0.08	-0.38	-0.50	-1.34	1.20	0.05	-0.78	-0.30	0.53	1.14	-0.72	**-1.48**
809	1,3,7,9,10,13,17,21,27,26,31,34,35,37,42,47,50,54	-1.36	0.92	-1.38	-0.63	0.65	0.55	-0.64	-0.38	0.20	-1.11	-0.09	-0.90	-1.12	-0.30	0.53	1.14	-0.72	**-4.62**
810	1,3,7,9,10,13,17,21,27,26,31,34,35,37,42,49,53,54	-1.40	0.66	-1.40	-0.68	0.62	-0.30	-0.87	0.14	-0.38	-1.24	0.10	0.05	-1.15	-0.30	0.53	1.14	-0.72	**-5.21**
811	1,3,7,9,10,13,17,21,27,26,31,34,36,39,41,40,42,46,48,51	1.19	1.44	0.95	1.06	-1.39	0.55	1.04	-0.41	-0.66	0.63	0.45	1.01	0.75	-0.30	0.53	1.14	-0.72	**7.26**
812	1,3,7,9,10,13,17,21,27,26,31,34,36,39,41,40,42,46,48,52,53,54	0.86	1.44	0.60	0.67	-0.85	-0.30	0.80	-0.23	-0.53	0.63	0.13	0.05	0.26	-0.30	0.53	1.14	-0.72	**4.18**
813	1,3,7,9,10,13,17,21,27,26,31,34,36,39,41,40,42,47,50,54	-0.02	1.70	-0.25	-0.38	0.03	0.55	0.08	-0.23	0.17	0.86	-1.15	-0.90	-0.08	-0.30	0.53	1.14	-0.72	**1.04**
814	1,3,7,9,10,13,17,21,27,26,31,34,36,39,41,40,42,49,53,54	-0.07	1.44	-0.27	-0.43	0.00	-0.30	-0.16	0.29	-0.41	0.74	-0.97	0.05	-0.11	-0.30	0.53	1.14	-0.72	**0.45**
815	1,3,7,9,10,13,17,21,27,26,31,34,36,39,41,43,47,46,48,51	1.19	1.70	0.95	1.14	-1.34	0.55	1.04	-0.41	-0.66	0.66	0.46	1.01	0.75	-0.30	0.53	1.14	-0.72	**7.69**
816	1,3,7,9,10,13,17,21,27,26,31,34,36,39,41,43,47,46,48,52,53,54	0.86	1.70	0.60	0.75	-0.81	-0.30	0.80	-0.23	-0.53	0.66	0.14	0.05	0.26	-0.30	0.53	1.14	-0.72	**4.60**
817	1,3,7,9,10,13,17,21,27,26,31,34,36,39,41,43,47,49,53,54	-0.07	1.96	-0.27	-0.35	0.04	-0.30	-0.16	0.29	-0.41	0.77	-0.97	0.05	-0.11	-0.30	0.53	1.14	-0.72	**1.14**
818	1,3,7,9,10,13,17,21,27,26,31,34,36,39,41,43,50,54	-0.17	1.44	-0.29	-0.47	-0.02	-0.30	0.08	-0.23	0.17	0.81	-1.21	-0.90	-0.15	-0.30	0.53	1.14	-0.72	**-0.58**
819	1,3,7,9,10,13,17,21,27,26,31,34,36,39,44,55	-1.10	0.14	0.06	-0.66	-0.13	-0.73	-1.11	-0.41	-0.08	0.79	-1.36	-0.90	-0.21	-0.30	0.53	1.14	-0.72	**-5.06**

Table F-2: Raw Scores for All Routes

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
820	1,3,7,9,10,13,17,21,27,26,31,34,36,39,45,55	0.60	1.18	0.90	0.36	-0.62	1.41	0.08	0.17	1.24	1.60	-0.65	-0.90	0.66	-0.30	0.53	1.14	-0.72	**6.68**
821	1,3,7,9,10,13,17,21,27,26,31,34,38,40,42,46,48,51	-0.11	0.66	-0.18	0.77	-0.05	0.98	0.32	-0.19	-0.30	-1.33	1.48	1.01	-0.29	-0.30	0.53	1.14	1.40	**5.56**
822	1,3,7,9,10,13,17,21,27,26,31,34,38,40,42,46,48,52,53,54	-0.43	0.66	-0.53	0.39	0.48	0.13	0.08	-0.01	-0.18	-1.33	1.16	0.05	-0.77	-0.30	0.53	1.14	1.40	**2.47**
823	1,3,7,9,10,13,17,21,27,26,31,34,38,40,42,47,50,54	-1.32	0.92	-1.38	-0.66	1.36	0.98	-0.64	-0.01	0.52	-1.10	-0.13	-0.90	-1.11	-0.30	0.53	1.14	1.40	**-0.67**
824	1,3,7,9,10,13,17,21,27,26,31,34,38,40,42,49,53,54	-1.36	0.66	-1.40	-0.71	1.34	0.13	-0.87	0.51	-0.06	-1.23	0.06	0.05	-1.15	-0.30	0.53	1.14	1.40	**-1.25**
825	1,3,7,9,10,13,17,21,27,26,31,34,38,41,44,55	-0.85	-0.12	-0.65	-0.94	1.21	-0.30	-0.87	-0.19	0.27	-1.17	0.35	-0.90	-0.62	-0.30	0.53	1.14	1.40	**-2.02**
826	1,3,7,9,10,13,17,21,27,26,31,34,38,41,45,55	0.85	0.92	0.19	0.07	0.72	1.84	0.32	0.39	1.59	-0.36	1.05	-0.90	0.25	-0.30	0.53	1.14	1.40	**9.72**
827	1,3,7,9,10,13,17,21,27,26,31,34,38,43,47,46,48,51	-0.11	0.40	-0.17	0.85	-0.01	0.98	0.32	-0.19	-0.30	-1.30	1.48	1.01	-0.29	-0.30	0.53	1.14	1.40	**5.47**
828	1,3,7,9,10,13,17,21,27,26,31,34,38,43,47,46,48,52,53,54	-0.43	0.40	-0.53	0.47	0.53	0.13	0.08	-0.01	-0.18	-1.30	1.17	0.05	-0.77	-0.30	0.53	1.14	1.40	**2.38**
829	1,3,7,9,10,13,17,21,27,26,31,34,38,43,47,49,53,54	-1.36	0.66	-1.40	-0.63	1.38	0.13	-0.87	0.51	-0.06	-1.19	0.06	0.05	-1.14	-0.30	0.53	1.14	1.40	**-1.08**
830	1,3,7,9,10,13,17,21,27,26,31,34,38,43,50,54	-1.46	0.14	-1.42	-0.75	1.31	0.13	-0.64	-0.01	0.52	-1.15	-0.18	-0.90	-1.18	-0.30	0.53	1.14	1.40	**-2.80**
831	1,3,7,9,10,13,17,21,27,26,33,37,40,41,44,55	-0.82	-0.64	-0.64	-0.94	0.13	0.13	-0.64	-0.55	-0.36	-1.17	0.37	-0.90	-0.58	-0.30	0.53	1.14	-0.72	**-5.95**
832	1,3,7,9,10,13,17,21,27,26,33,37,40,41,45,55	0.88	0.40	0.20	0.08	-0.36	2.27	0.56	0.02	0.97	-0.36	1.08	-0.90	0.30	-0.30	0.53	1.14	-0.72	**5.78**
833	1,3,7,9,10,13,17,21,27,26,33,37,40,43,47,46,48,51	-0.08	0.40	-0.17	0.86	-1.08	1.41	0.56	-0.55	-0.93	-1.29	1.50	1.01	-0.24	-0.30	0.53	1.14	-0.72	**2.04**
834	1,3,7,9,10,13,17,21,27,26,33,37,40,43,47,46,48,52,53,54	-0.41	0.40	-0.53	0.47	-0.55	0.55	0.32	-0.38	-0.81	-1.29	1.18	0.05	-0.73	-0.30	0.53	1.14	-0.72	**-1.04**
835	1,3,7,9,10,13,17,21,27,26,33,37,40,43,47,49,53,54	-1.33	0.66	-1.39	-0.63	0.30	0.55	-0.64	0.14	-0.68	-1.19	0.08	0.05	-1.10	-0.30	0.53	1.14	-0.72	**-4.51**
836	1,3,7,9,10,13,17,21,27,26,33,37,40,43,50,54	-1.43	0.14	-1.41	-0.74	0.24	0.55	-0.40	-0.38	-0.10	-1.14	-0.16	-0.90	-1.14	-0.30	0.53	1.14	-0.72	**-6.23**
837	1,3,7,9,10,13,17,21,27,26,33,37,42,46,48,51	-0.21	-0.38	-0.21	0.78	-1.13	0.55	0.56	-0.55	-0.93	-1.32	1.47	1.01	-0.32	-0.30	0.53	1.14	-0.72	**-0.03**
838	1,3,7,9,10,13,17,21,27,26,33,37,42,46,48,52,53,54	-0.54	-0.38	-0.56	0.40	-0.59	-0.30	0.32	-0.38	-0.81	-1.32	1.15	0.05	-0.80	-0.30	0.53	1.14	-0.72	**-3.11**
839	1,3,7,9,10,13,17,21,27,26,33,37,42,47,50,54	-1.42	-0.12	-1.41	-0.65	0.29	0.55	-0.40	-0.38	-0.10	-1.09	-0.14	-0.90	-1.14	-0.30	0.53	1.14	-0.72	**-6.25**
840	1,3,7,9,10,13,17,21,27,26,33,37,42,49,53,54	-1.47	-0.38	-1.43	-0.70	0.26	-0.30	-0.64	0.14	-0.68	-1.22	0.04	0.05	-1.17	-0.30	0.53	1.14	-0.72	**-6.84**
841	1,3,7,9,10,13,17,21,28,31,30,32,46,47,50,54	0.99	1.18	0.21	-0.90	0.43	2.27	1.75	-0.97	1.20	-0.32	0.97	-0.90	0.88	0.43	0.53	-0.77	0.98	**7.95**
842	1,3,7,9,10,13,17,21,28,31,30,32,46,49,53,54	0.95	0.92	0.19	-0.96	0.40	1.41	1.52	-0.45	0.62	-0.45	1.13	0.05	0.84	0.43	0.53	-0.77	0.98	**7.34**
843	1,3,7,9,10,13,17,21,28,31,30,32,48,51	0.45	0.40	0.94	-1.55	-1.55	2.27	2.23	-1.15	0.37	-0.55	0.62	-0.90	1.35	0.43	0.53	-0.77	0.98	**4.10**
844	1,3,7,9,10,13,17,21,28,31,30,32,48,52,53,54	0.12	0.40	0.58	-1.94	-1.01	1.41	1.99	-0.97	0.49	-0.55	0.31	-1.85	0.87	0.43	0.53	-0.77	0.98	**1.01**
845	1,3,7,9,10,13,17,21,28,31,33,37,40,41,44,55	-0.90	-0.64	-0.71	-0.91	0.34	0.13	-0.64	-0.55	-0.71	-0.92	0.11	-0.90	-0.67	-0.30	0.53	-0.77	-0.72	**-8.24**
846	1,3,7,9,10,13,17,21,28,31,33,37,40,41,45,55	0.80	0.40	0.13	0.11	-0.15	2.27	0.56	0.02	0.61	-0.11	0.82	-0.90	0.20	-0.30	0.53	-0.77	-0.72	**3.50**
847	1,3,7,9,10,13,17,21,28,31,33,37,40,43,47,46,48,51	-0.15	0.40	-0.24	0.89	-0.88	1.41	0.56	-0.55	-1.28	-1.05	1.25	1.01	-0.34	-0.30	0.53	-0.77	-0.72	**-0.24**
848	1,3,7,9,10,13,17,21,28,31,33,37,40,43,47,46,48,52,53,54	-0.48	0.40	-0.60	0.50	-0.34	0.55	0.32	-0.38	-1.16	-1.05	0.93	0.05	-0.82	-0.30	0.53	-0.77	-0.72	**-3.32**
849	1,3,7,9,10,13,17,21,28,31,33,37,40,43,47,49,53,54	-1.41	0.66	-1.46	-0.60	0.51	0.55	-0.64	0.14	-1.04	-0.94	-0.18	0.05	-1.19	-0.30	0.53	-0.77	-0.72	**-6.79**
850	1,3,7,9,10,13,17,21,28,31,33,37,40,43,50,54	-1.51	0.14	-1.48	-0.72	0.44	0.55	-0.40	-0.38	-0.45	-0.90	-0.42	-0.90	-1.24	-0.30	0.53	-0.77	-0.72	**-8.51**
851	1,3,7,9,10,13,17,21,28,31,33,37,42,46,48,51	-0.28	-0.38	-0.28	0.81	-0.92	0.55	0.56	-0.55	-1.28	-1.08	1.21	1.01	-0.41	-0.30	0.53	-0.77	-0.72	**-2.31**
852	1,3,7,9,10,13,17,21,28,31,33,37,42,46,48,52,53,54	-0.61	-0.38	-0.63	0.42	-0.39	-0.30	0.32	-0.38	-1.16	-1.08	0.89	0.05	-0.90	-0.30	0.53	-0.77	-0.72	**-5.40**
853	1,3,7,9,10,13,17,21,28,31,33,37,42,47,50,54	-1.50	-0.12	-1.48	-0.63	0.49	0.55	-0.40	-0.38	-0.45	-0.85	-0.40	-0.90	-1.23	-0.30	0.53	-0.77	-0.72	**-8.54**
854	1,3,7,9,10,13,17,21,28,31,33,37,42,49,53,54	-1.54	-0.38	-1.50	-0.68	0.47	-0.30	-0.64	0.14	-1.04	-0.98	-0.21	0.05	-1.27	-0.30	0.53	-0.77	-0.72	**-9.12**
855	1,3,7,9,10,13,17,21,28,34,35,37,40,41,44,55	-0.93	-0.64	-0.71	-0.89	0.70	0.13	-0.87	-0.55	-0.41	-0.97	0.09	-0.90	-0.72	-0.30	0.53	-0.77	-0.72	**-7.93**
856	1,3,7,9,10,13,17,21,28,34,35,37,40,41,45,55	0.78	0.40	0.13	0.13	0.20	2.27	0.32	0.02	0.92	-0.16	0.79	-0.90	0.16	-0.30	0.53	-0.77	-0.72	**3.81**
857	1,3,7,9,10,13,17,21,28,34,35,37,40,43,47,46,48,51	-0.18	0.40	-0.23	0.91	-0.52	1.41	0.32	-0.55	-0.98	-1.09	1.22	1.01	-0.38	-0.30	0.53	-0.77	-0.72	**0.07**
858	1,3,7,9,10,13,17,21,28,34,35,37,40,43,47,46,48,52,53,54	-0.51	0.40	-0.59	0.52	0.02	0.55	0.08	-0.38	-0.86	-1.09	0.90	0.05	-0.87	-0.30	0.53	-0.77	-0.72	**-3.02**
859	1,3,7,9,10,13,17,21,28,34,35,37,40,43,47,49,53,54	-1.43	0.66	-1.46	-0.58	0.87	0.55	-0.87	0.14	-0.73	-0.99	-0.20	0.05	-1.24	-0.30	0.53	-0.77	-0.72	**-6.48**
860	1,3,7,9,10,13,17,21,28,34,35,37,40,43,50,54	-1.53	0.14	-1.48	-0.69	0.80	0.55	-0.64	-0.38	-0.15	-0.94	-0.44	-0.90	-1.28	-0.30	0.53	-0.77	-0.72	**-8.20**
861	1,3,7,9,10,13,17,21,28,34,35,37,42,46,48,51	-0.31	-0.38	-0.27	0.83	-0.57	0.55	0.32	-0.55	-0.98	-1.12	1.18	1.01	-0.46	-0.30	0.53	-0.77	-0.72	**-2.00**
862	1,3,7,9,10,13,17,21,28,34,35,37,42,46,48,52,53,54	-0.64	-0.38	-0.63	0.44	-0.03	-0.30	0.08	-0.38	-0.86	-1.12	0.86	0.05	-0.94	-0.30	0.53	-0.77	-0.72	**-5.09**
863	1,3,7,9,10,13,17,21,28,34,35,37,42,47,50,54	-1.52	-0.12	-1.47	-0.60	0.85	0.55	-0.64	-0.38	-0.15	-0.89	-0.42	-0.90	-1.28	-0.30	0.53	-0.77	-0.72	**-8.23**
864	1,3,7,9,10,13,17,21,28,34,35,37,42,49,53,54	-1.57	-0.38	-1.49	-0.66	0.82	-0.30	-0.87	0.14	-0.73	-1.02	-0.24	0.05	-1.31	-0.30	0.53	-0.77	-0.72	**-8.81**
865	1,3,7,9,10,13,17,21,28,34,36,39,41,40,42,46,48,51	1.02	0.40	0.86	1.09	-1.18	0.55	1.04	-0.41	-1.01	0.85	0.12	1.01	0.59	-0.30	0.53	-0.77	-0.72	**3.65**
866	1,3,7,9,10,13,17,21,28,34,36,39,41,40,42,46,48,52,53,54	0.69	0.40	0.50	0.70	-0.65	-0.30	0.80	-0.23	-0.89	0.85	-0.20	0.05	0.10	-0.30	0.53	-0.77	-0.72	**0.57**
867	1,3,7,9,10,13,17,21,28,34,36,39,41,40,42,47,50,54	-0.19	0.66	-0.35	-0.35	0.23	0.55	0.08	-0.23	-0.18	1.08	-1.49	-0.90	-0.23	-0.30	0.53	-0.77	-0.72	**-2.57**
868	1,3,7,9,10,13,17,21,28,34,36,39,41,40,42,49,53,54	-0.23	0.40	-0.37	-0.40	0.21	-0.30	-0.16	0.29	-0.76	0.96	-1.31	0.05	-0.27	-0.30	0.53	-0.77	-0.72	**-3.16**
869	1,3,7,9,10,13,17,21,28,34,36,39,41,43,47,46,48,51	1.02	0.66	0.86	1.17	-1.14	0.55	1.04	-0.41	-1.01	0.88	0.12	1.01	0.59	-0.30	0.53	-0.77	-0.72	**4.08**
870	1,3,7,9,10,13,17,21,28,34,36,39,41,43,47,46,48,52,53,54	0.70	0.66	0.50	0.78	-0.60	-0.30	0.80	-0.23	-0.89	0.88	-0.20	0.05	0.11	-0.30	0.53	-0.77	-0.72	**1.00**
871	1,3,7,9,10,13,17,21,28,34,36,39,41,43,47,49,53,54	-0.23	0.92	-0.36	-0.32	0.25	-0.30	-0.16	0.29	-0.76	0.99	-1.30	0.05	-0.26	-0.30	0.53	-0.77	-0.72	**-2.47**
872	1,3,7,9,10,13,17,21,28,34,36,39,41,43,50,54	-0.33	0.40	-0.38	-0.44	0.18	-0.30	0.08	-0.23	-0.18	1.03	-1.54	-0.90	-0.31	-0.30	0.53	-0.77	-0.72	**-4.19**
873	1,3,7,9,10,13,17,21,28,34,36,39,44,55	-1.27	-0.90	-0.03	-0.63	0.08	-0.73	-1.11	-0.41	-0.44	1.01	-1.70	-0.90	-0.37	-0.30	0.53	-0.77	-0.72	**-8.66**
874	1,3,7,9,10,13,17,21,28,34,36,39,45,55	0.44	0.14	0.81	0.39	-0.41	1.41	0.08	0.17	0.89	1.82	-0.99	-0.90	0.50	-0.30	0.53	-0.77	-0.72	**3.07**
875	1,3,7,9,10,13,17,21,28,34,38,40,42,46,48,51	-0.27	-0.38	-0.27	0.80	0.15	0.98	0.32	-0.19	-0.66	-1.11	1.14	1.01	-0.45	-0.30	0.53	-0.77	1.40	**1.95**
876	1,3,7,9,10,13,17,21,28,34,38,40,42,46,48,52,53,54	-0.60	-0.38	-0.63	0.41	0.69	0.13	0.08	-0.01	-0.53	-1.11	0.82	0.05	-0.93	-0.30	0.53	-0.77	1.40	**-1.13**
877	1,3,7,9,10,13,17,21,28,34,38,40,42,47,50,54	-1.48	-0.12	-1.48	-0.63	1.57	0.98	-0.64	-0.01	0.17	-0.88	-0.46	-0.90	-1.27	-0.30	0.53	-0.77	1.40	**-4.27**
878	1,3,7,9,10,13,17,21,28,34,38,40,42,49,53,54	-1.53	-0.38	-1.49	-0.69	1.54	0.13	-0.87	0.51	-0.41	-1.01	-0.28	0.05	-1.30	-0.30	0.53	-0.77	1.40	**-4.86**
879	1,3,7,9,10,13,17,21,28,34,38,41,44,55	-1.02	-1.15	-0.74	-0.92	1.41	-0.30	-0.87	-0.19	-0.08	-0.95	0.01	-0.90	-0.78	-0.30	0.53	-0.77	1.40	**-5.62**
880	1,3,7,9,10,13,17,21,28,34,38,41,45,55	0.68	-0.12	0.10	0.10	0.92	1.84	0.32	0.39	1.24	-0.14	0.72	-0.90	0.10	-0.30	0.53	-0.77	1.40	**6.11**
881	1,3,7,9,10,13,17,21,28,34,38,43,47,46,48,51	-0.27	-0.64	-0.27	0.88	0.20	0.98	0.32	-0.19	-0.66	-1.08	1.15	1.01	-0.44	-0.30	0.53	-0.77	1.40	**1.86**
882	1,3,7,9,10,13,17,21,28,34,38,43,47,46,48,52,53,54	-0.60	-0.64	-0.63	0.49	0.73	0.13	0.08	-0.01	-0.53	-1.08	0.83	0.05	-0.93	-0.30	0.53	-0.77	1.40	**-1.23**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
883	1,3,7,9,10,13,17,21,28,34,38,43,47,49,53,54	-1.53	-0.38	-1.49	-0.61	1.59	0.13	-0.87	0.51	-0.41	-0.97	-0.27	0.05	-1.30	-0.30	0.53	-0.77	1.40	**-4.69**
884	1,3,7,9,10,13,17,21,28,34,38,43,50,54	-1.63	-0.90	-1.51	-0.73	1.52	0.13	-0.64	-0.01	0.17	-0.93	-0.52	-0.90	-1.34	-0.30	0.53	-0.77	1.40	**-6.41**
885	1,3,7,9,10,15,23,26,30,32,46,47,50,54	0.99	1.18	0.32	-1.48	0.16	1.41	1.04	-0.21	1.86	-0.12	0.56	-0.90	0.93	0.23	0.53	1.14	0.98	**8.61**
886	1,3,7,9,10,15,23,26,30,32,46,49,53,54	0.95	0.92	0.30	-1.53	0.13	0.55	0.80	0.31	1.28	-0.25	0.72	0.05	0.89	0.23	0.53	1.14	0.98	**8.00**
887	1,3,7,9,10,15,23,26,30,32,48,51	0.45	0.40	1.04	-2.12	-1.82	1.41	1.52	-0.39	1.03	-0.36	0.21	-0.90	1.40	0.23	0.53	1.14	0.98	**4.75**
888	1,3,7,9,10,15,23,26,30,32,48,52,53,54	0.12	0.40	0.69	-2.51	-1.28	0.55	1.28	-0.21	1.15	-0.36	-0.10	-1.85	0.92	0.23	0.53	1.14	0.98	**1.67**
889	1,3,7,9,10,15,23,26,31,34,35,37,40,41,44,55	-0.83	-0.12	-0.58	-1.46	0.43	-0.73	-1.59	0.21	0.25	-0.74	-0.24	-0.90	-0.60	-0.50	0.53	1.14	-0.72	**-6.46**
890	1,3,7,9,10,15,23,26,31,34,35,37,40,41,45,55	0.87	0.92	0.26	-0.44	-0.06	1.41	-0.40	0.78	1.58	0.07	0.46	-0.90	0.27	-0.50	0.53	1.14	-0.72	**5.27**
891	1,3,7,9,10,15,23,26,31,34,35,37,40,43,47,46,48,51	-0.09	0.92	-0.10	0.33	-0.79	0.55	-0.40	0.21	-0.32	-0.86	0.89	1.01	-0.27	-0.50	0.53	1.14	-0.72	**1.53**
892	1,3,7,9,10,15,23,26,31,34,35,37,40,43,47,46,48,52,53,54	-0.42	0.92	-0.46	-0.05	-0.25	-0.30	-0.64	0.38	-0.20	-0.86	0.57	0.05	-0.75	-0.50	0.53	1.14	-0.72	**-1.55**
893	1,3,7,9,10,15,23,26,31,34,35,37,40,43,47,49,53,54	-1.34	1.18	-1.33	-1.15	0.60	-0.30	-1.59	0.91	-0.07	-0.76	-0.53	0.05	-1.13	-0.50	0.53	1.14	-0.72	**-5.02**
894	1,3,7,9,10,15,23,26,31,34,35,37,40,43,50,54	-1.44	0.66	-1.35	-1.27	0.53	-0.30	-1.35	0.38	0.51	-0.72	-0.77	-0.90	-1.17	-0.50	0.53	1.14	-0.72	**-6.74**
895	1,3,7,9,10,15,23,26,31,34,35,37,42,46,48,51	-0.22	0.14	-0.14	0.26	-0.83	-0.30	-0.40	0.21	-0.32	-0.90	0.85	1.01	-0.34	-0.50	0.53	1.14	-0.72	**-0.54**
896	1,3,7,9,10,15,23,26,31,34,35,37,42,46,48,52,53,54	-0.55	0.14	-0.50	-0.13	-0.30	-1.16	-0.64	0.38	-0.20	-0.90	0.53	0.05	-0.83	-0.50	0.53	1.14	-0.72	**-3.63**
897	1,3,7,9,10,15,23,26,31,34,35,37,42,47,50,54	-1.43	0.40	-1.34	-1.18	0.58	-0.30	-1.35	0.38	0.51	-0.67	-0.75	-0.90	-1.16	-0.50	0.53	1.14	-0.72	**-6.77**
898	1,3,7,9,10,15,23,26,31,34,35,37,42,49,53,54	-1.48	0.14	-1.36	-1.23	0.55	-1.16	-1.59	0.91	-0.07	-0.79	-0.57	0.05	-1.20	-0.50	0.53	1.14	-0.72	**-7.35**
899	1,3,7,9,10,15,23,26,31,34,36,39,41,40,42,46,48,51	1.11	0.92	0.99	0.51	-1.45	-0.30	0.32	0.35	-0.35	1.08	-0.21	1.01	0.70	-0.50	0.53	1.14	-0.72	**5.12**
900	1,3,7,9,10,15,23,26,31,34,36,39,41,40,42,46,48,52,53,54	0.78	0.92	0.63	0.12	-0.91	-1.16	0.08	0.53	-0.23	1.08	-0.53	0.05	0.22	-0.50	0.53	1.14	-0.72	**2.03**
901	1,3,7,9,10,15,23,26,31,34,36,39,41,40,42,47,50,54	-0.10	1.18	-0.22	-0.92	-0.03	-0.30	-0.64	0.53	0.48	1.31	-1.82	-0.90	-0.12	-0.50	0.53	1.14	-0.72	**-1.11**
902	1,3,7,9,10,15,23,26,31,34,36,39,41,40,42,49,53,54	-0.14	0.92	-0.24	-0.98	-0.06	-1.16	-0.87	1.05	-0.10	1.18	-1.64	0.05	-0.16	-0.50	0.53	1.14	-0.72	**-1.69**
903	1,3,7,9,10,15,23,26,31,34,36,39,41,43,47,46,48,51	1.11	1.18	0.99	0.59	-1.41	-0.30	0.32	0.35	-0.35	1.11	-0.21	1.01	0.70	-0.50	0.53	1.14	-0.72	**5.55**
904	1,3,7,9,10,15,23,26,31,34,36,39,41,43,47,46,48,52,53,54	0.79	1.18	0.63	0.20	-0.87	-1.16	0.08	0.53	-0.23	1.11	-0.53	0.05	0.22	-0.50	0.53	1.14	-0.72	**2.46**
905	1,3,7,9,10,15,23,26,31,34,36,39,41,43,47,49,53,54	-0.14	1.44	-0.23	-0.90	-0.02	-1.16	-0.87	1.05	-0.10	1.21	-1.63	0.05	-0.15	-0.50	0.53	1.14	-0.72	**-1.01**
906	1,3,7,9,10,15,23,26,31,34,36,39,41,43,50,54	-0.24	0.92	-0.25	-1.01	-0.08	-1.16	-0.64	0.53	0.48	1.26	-1.87	-0.90	-0.20	-0.50	0.53	1.14	-0.72	**-2.72**
907	1,3,7,9,10,15,23,26,31,34,36,39,44,55	-1.17	-0.38	0.10	-1.21	-0.19	-1.59	-1.83	0.35	0.22	1.23	-2.03	-0.90	-0.26	-0.50	0.53	1.14	-0.72	**-7.20**
908	1,3,7,9,10,15,23,26,31,34,36,39,45,55	0.53	0.66	0.94	-0.19	-0.68	0.55	-0.64	0.93	1.55	2.04	-1.32	-0.90	0.62	-0.50	0.53	1.14	-0.72	**4.54**
909	1,3,7,9,10,15,23,26,31,34,38,40,42,46,48,51	-0.18	0.14	-0.14	0.22	-0.12	0.13	-0.40	0.58	0.00	-0.89	0.81	1.01	-0.33	-0.50	0.53	1.14	1.40	**3.41**
910	1,3,7,9,10,15,23,26,31,34,38,40,42,46,48,52,53,54	-0.51	0.14	-0.50	-0.16	0.42	-0.73	-0.64	0.75	0.12	-0.89	0.49	0.05	-0.82	-0.50	0.53	1.14	1.40	**0.33**
911	1,3,7,9,10,15,23,26,31,34,38,40,42,47,50,54	-1.39	0.40	-1.35	-1.21	1.30	0.13	-1.35	0.75	0.83	-0.65	-0.79	-0.90	-1.16	-0.50	0.53	1.14	1.40	**-2.81**
912	1,3,7,9,10,15,23,26,31,34,38,40,42,49,53,54	-1.44	0.14	-1.36	-1.26	1.27	-0.73	-1.59	1.27	0.25	-0.78	-0.61	0.05	-1.19	-0.50	0.53	1.14	1.40	**-3.40**
913	1,3,7,9,10,15,23,26,31,34,38,41,44,55	-0.93	-0.64	-0.61	-1.49	1.14	-1.16	-1.59	0.58	0.58	-0.73	-0.32	-0.90	-0.67	-0.50	0.53	1.14	1.40	**-4.16**
914	1,3,7,9,10,15,23,26,31,34,38,41,45,55	0.77	0.40	0.23	-0.47	0.65	0.98	-0.40	1.15	1.90	0.08	0.39	-0.90	0.21	-0.50	0.53	1.14	1.40	**7.58**
915	1,3,7,9,10,15,23,26,31,34,38,43,47,46,48,51	-0.18	-0.12	-0.14	0.30	-0.07	0.13	-0.40	0.58	0.00	-0.85	0.82	1.01	-0.33	-0.50	0.53	1.14	1.40	**3.32**
916	1,3,7,9,10,15,23,26,31,34,38,43,47,46,48,52,53,54	-0.51	-0.12	-0.50	-0.08	0.46	-0.73	-0.64	0.75	0.12	-0.85	0.50	0.05	-0.82	-0.50	0.53	1.14	1.40	**0.24**
917	1,3,7,9,10,15,23,26,31,34,38,43,47,49,53,54	-1.44	0.14	-1.36	-1.18	1.32	-0.73	-1.59	1.27	0.25	-0.75	-0.60	0.05	-1.19	-0.50	0.53	1.14	1.40	**-3.23**
918	1,3,7,9,10,15,23,26,31,34,38,43,50,54	-1.54	-0.38	-1.38	-1.30	1.25	-0.73	-1.35	0.75	0.83	-0.71	-0.85	-0.90	-1.23	-0.50	0.53	1.14	1.40	**-4.95**
919	1,3,7,9,10,15,23,26,33,37,40,41,44,55	-0.90	-1.15	-0.61	-1.48	0.07	-0.73	-1.35	0.21	-0.05	-0.72	-0.29	-0.90	-0.62	-0.50	0.53	1.14	-0.72	**-8.10**
920	1,3,7,9,10,15,23,26,33,37,40,41,45,55	0.80	-0.12	0.23	-0.47	-0.42	1.41	-0.16	0.78	1.27	0.09	0.41	-0.90	0.25	-0.50	0.53	1.14	-0.72	**3.64**
921	1,3,7,9,10,15,23,26,33,37,40,43,47,46,48,51	-0.16	-0.12	-0.13	0.31	-1.15	0.55	-0.16	0.21	-0.62	-0.85	0.84	1.01	-0.29	-0.50	0.53	1.14	-0.72	**-0.10**
922	1,3,7,9,10,15,23,26,33,37,40,43,47,46,48,52,53,54	-0.48	-0.12	-0.49	-0.07	-0.61	-0.30	-0.40	0.38	-0.50	-0.85	0.52	0.05	-0.77	-0.50	0.53	1.14	-0.72	**-3.19**
923	1,3,7,9,10,15,23,26,33,37,40,43,47,49,53,54	-1.41	0.14	-1.36	-1.17	0.24	-0.30	-1.35	0.91	-0.38	-0.74	-0.59	0.05	-1.15	-0.50	0.53	1.14	-0.72	**-6.65**
924	1,3,7,9,10,15,23,26,33,37,40,43,50,54	-1.51	-0.38	-1.38	-1.29	0.18	-0.30	-1.11	0.38	0.21	-0.70	-0.83	-0.90	-1.19	-0.50	0.53	1.14	-0.72	**-8.37**
925	1,3,7,9,10,15,23,26,33,37,42,46,48,51	-0.29	-0.90	-0.17	0.23	-1.19	-0.30	-0.16	0.21	-0.62	-0.88	0.80	1.01	-0.36	-0.50	0.53	1.14	-0.72	**-2.17**
926	1,3,7,9,10,15,23,26,33,37,42,46,48,52,53,54	-0.61	-0.90	-0.53	-0.15	-0.65	-1.16	-0.40	0.38	-0.50	-0.88	0.48	0.05	-0.85	-0.50	0.53	1.14	-0.72	**-5.26**
927	1,3,7,9,10,15,23,26,33,37,42,47,50,54	-1.50	-0.64	-1.38	-1.20	0.23	-0.30	-1.11	0.38	0.21	-0.65	-0.80	-0.90	-1.18	-0.50	0.53	1.14	-0.72	**-8.40**
928	1,3,7,9,10,15,23,26,33,37,42,49,53,54	-1.54	-0.90	-1.39	-1.25	0.20	-1.16	-1.35	0.91	-0.38	-0.78	-0.62	0.05	-1.22	-0.50	0.53	1.14	-0.72	**-8.98**
929	1,3,7,9,10,15,23,27,28,31,30,32,46,47,50,54	1.02	1.18	0.27	-1.45	0.37	1.41	1.04	-0.21	1.50	0.25	0.31	-0.90	0.89	0.23	0.53	-0.77	0.98	**6.65**
930	1,3,7,9,10,15,23,27,28,31,30,32,46,49,53,54	0.98	0.92	0.25	-1.50	0.34	0.55	0.80	0.31	0.92	0.12	0.47	0.05	0.86	0.23	0.53	-0.77	0.98	**6.04**
931	1,3,7,9,10,15,23,27,28,31,30,32,48,51	0.48	0.40	1.00	-2.10	-1.61	1.41	1.52	-0.39	0.68	0.01	-0.04	-0.90	1.37	0.23	0.53	-0.77	0.98	**2.79**
932	1,3,7,9,10,15,23,27,28,31,30,32,48,52,53,54	0.15	0.40	0.65	-2.48	-1.08	0.55	1.28	-0.21	0.80	0.01	-0.36	-1.85	0.88	0.23	0.53	-0.77	0.98	**-0.29**
933	1,3,7,9,10,15,23,27,28,31,33,37,40,41,44,55	-0.86	-0.64	-0.65	-1.46	0.28	-0.73	-1.35	0.21	-0.40	-0.36	-0.55	-0.90	-0.66	-0.50	0.53	-0.77	-0.72	**-9.54**
934	1,3,7,9,10,15,23,27,28,31,33,37,40,41,45,55	0.84	0.40	0.19	-0.44	-0.22	1.41	-0.16	0.78	0.92	0.45	0.15	-0.90	0.22	-0.50	0.53	-0.77	-0.72	**2.20**
935	1,3,7,9,10,15,23,27,28,31,33,37,40,43,47,46,48,51	-0.12	0.40	-0.18	0.34	-0.94	0.55	-0.16	0.21	-0.98	-0.48	0.58	1.01	-0.32	-0.50	0.53	-0.77	-0.72	**-1.54**
936	1,3,7,9,10,15,23,27,28,31,33,37,40,43,47,46,48,52,53,54	-0.45	0.40	-0.53	-0.05	-0.41	-0.30	-0.40	0.38	-0.85	-0.48	0.26	0.05	-0.81	-0.50	0.53	-0.77	-0.72	**-4.63**
937	1,3,7,9,10,15,23,27,28,31,33,37,40,43,47,49,53,54	-1.37	0.66	-1.40	-1.15	0.45	-0.30	-1.35	0.91	-0.73	-0.37	-0.84	0.05	-1.18	-0.50	0.53	-0.77	-0.72	**-8.09**
938	1,3,7,9,10,15,23,27,28,31,33,37,40,43,50,54	-1.47	0.14	-1.42	-1.26	0.38	-0.30	-1.11	0.38	-0.15	-0.33	-1.09	-0.90	-1.22	-0.50	0.53	-0.77	-0.72	**-9.81**
939	1,3,7,9,10,15,23,27,28,31,33,37,42,46,48,51	-0.25	-0.38	-0.21	0.26	-0.99	-0.30	-0.16	0.21	-0.98	-0.51	0.54	1.01	-0.40	-0.50	0.53	-0.77	-0.72	**-3.61**
940	1,3,7,9,10,15,23,27,28,31,33,37,42,46,48,52,53,54	-0.58	-0.38	-0.57	-0.13	-0.45	-1.16	-0.40	0.38	-0.85	-0.51	0.22	0.05	-0.88	-0.50	0.53	-0.77	-0.72	**-6.70**
941	1,3,7,9,10,15,23,27,28,31,33,37,42,47,50,54	-1.46	-0.12	-1.42	-1.17	0.43	-0.30	-1.11	0.38	-0.15	-0.28	-1.06	-0.90	-1.22	-0.50	0.53	-0.77	-0.72	**-9.84**
942	1,3,7,9,10,15,23,27,28,31,33,37,42,49,53,54	-1.51	-0.38	-1.44	-1.23	0.40	-1.16	-1.35	0.91	-0.73	-0.41	-0.88	0.05	-1.25	-0.50	0.53	-0.77	-0.72	**-10.42**
943	1,3,7,9,10,15,23,27,28,34,35,37,40,41,44,55	-0.89	-0.64	-0.64	-1.44	0.63	-0.73	-1.59	0.21	-0.10	-0.40	-0.58	-0.90	-0.70	-0.50	0.53	-0.77	-0.72	**-9.23**
944	1,3,7,9,10,15,23,27,28,34,35,37,40,41,45,55	0.81	0.40	0.20	-0.42	0.14	1.41	-0.40	0.78	1.22	0.41	0.13	-0.90	0.17	-0.50	0.53	-0.77	-0.72	**2.51**
945	1,3,7,9,10,15,23,27,28,34,35,37,40,43,47,46,48,51	-0.15	0.40	-0.17	0.36	-0.58	0.55	-0.40	0.21	-0.67	-0.52	0.55	1.01	-0.37	-0.50	0.53	-0.77	-0.72	**-1.23**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
946	1,3,7,9,10,15,23,27,28,34,35,37,40,43,47,46,48,52,53,54	-0.47	0.40	-0.53	-0.03	-0.05	-0.30	-0.64	0.38	-0.55	-0.52	0.24	0.05	-0.85	-0.50	0.53	-0.77	-0.72	**-4.32**
947	1,3,7,9,10,15,23,27,28,34,35,37,40,43,47,49,53,54	-1.40	0.66	-1.39	-1.12	0.80	-0.30	-1.59	0.91	-0.43	-0.42	-0.87	0.05	-1.22	-0.50	0.53	-0.77	-0.72	**-7.78**
948	1,3,7,9,10,15,23,27,28,34,35,37,40,43,50,54	-1.50	0.14	-1.41	-1.24	0.74	-0.30	-1.35	0.38	0.15	-0.37	-1.11	-0.90	-1.27	-0.50	0.53	-0.77	-0.72	**-9.50**
949	1,3,7,9,10,15,23,27,28,34,35,37,42,46,48,51	-0.28	-0.38	-0.21	0.28	-0.63	-0.30	-0.40	0.21	-0.67	-0.55	0.52	1.01	-0.44	-0.50	0.53	-0.77	-0.72	**-3.31**
950	1,3,7,9,10,15,23,27,28,34,35,37,42,46,48,52,53,54	-0.61	-0.38	-0.56	-0.10	-0.09	-1.16	-0.64	0.38	-0.55	-0.55	0.20	0.05	-0.93	-0.50	0.53	-0.77	-0.72	**-6.39**
951	1,3,7,9,10,15,23,27,28,34,35,37,42,47,50,54	-1.49	-0.12	-1.41	-1.15	0.79	-0.30	-1.35	0.38	0.15	-0.32	-1.09	-0.90	-1.26	-0.50	0.53	-0.77	-0.72	**-9.53**
952	1,3,7,9,10,15,23,27,28,34,35,37,42,49,53,54	-1.54	-0.38	-1.43	-1.20	0.76	-1.16	-1.59	0.91	-0.43	-0.45	-0.91	0.05	-1.30	-0.50	0.53	-0.77	-0.72	**-10.12**
953	1,3,7,9,10,15,23,27,28,34,36,39,41,40,42,46,48,51	1.05	0.40	0.92	0.54	-1.25	-0.30	0.32	0.35	-0.70	1.42	-0.55	1.01	0.60	-0.50	0.53	-0.77	-0.72	**2.35**
954	1,3,7,9,10,15,23,27,28,34,36,39,41,40,42,46,48,52,53,54	0.73	0.40	0.57	0.15	-0.71	-1.16	0.08	0.53	-0.58	1.42	-0.87	0.05	0.12	-0.50	0.53	-0.77	-0.72	**-0.73**
955	1,3,7,9,10,15,23,27,28,34,36,39,41,40,42,47,50,54	-0.16	0.66	-0.28	-0.90	0.17	-0.30	-0.64	0.53	0.12	1.65	-2.16	-0.90	-0.22	-0.50	0.53	-0.77	-0.72	**-3.87**
956	1,3,7,9,10,15,23,27,28,34,36,39,41,40,42,49,53,54	-0.20	0.40	-0.30	-0.95	0.14	-1.16	-0.87	1.05	-0.46	1.52	-1.97	0.05	-0.25	-0.50	0.53	-0.77	-0.72	**-4.46**
957	1,3,7,9,10,15,23,27,28,34,36,39,41,43,47,46,48,51	1.05	0.66	0.92	0.62	-1.20	-0.30	0.32	0.35	-0.70	1.45	-0.54	1.01	0.61	-0.50	0.53	-0.77	-0.72	**2.78**
958	1,3,7,9,10,15,23,27,28,34,36,39,41,43,47,46,48,52,53,54	0.73	0.66	0.57	0.23	-0.67	-1.16	0.08	0.53	-0.58	1.45	-0.86	0.05	0.12	-0.50	0.53	-0.77	-0.72	**-0.31**
959	1,3,7,9,10,15,23,27,28,34,36,39,41,43,47,49,53,54	-0.20	0.92	-0.30	-0.87	0.19	-1.16	-0.87	1.05	-0.46	1.56	-1.97	0.05	-0.25	-0.50	0.53	-0.77	-0.72	**-3.77**
960	1,3,7,9,10,15,23,27,28,34,36,39,41,43,50,54	-0.30	0.40	-0.32	-0.99	0.12	-1.16	-0.64	0.53	0.12	1.60	-2.21	-0.90	-0.29	-0.50	0.53	-0.77	-0.72	**-5.49**
961	1,3,7,9,10,15,23,27,28,34,36,39,44,55	-1.23	-0.90	0.03	-1.18	0.02	-1.59	-1.83	0.35	-0.13	1.58	-2.36	-0.90	-0.36	-0.50	0.53	-0.77	-0.72	**-9.97**
962	1,3,7,9,10,15,23,27,28,34,36,39,45,55	0.47	0.14	0.87	-0.16	-0.48	0.55	-0.64	0.93	1.19	2.39	-1.66	-0.90	0.52	-0.50	0.53	-0.77	-0.72	**1.77**
963	1,3,7,9,10,15,23,27,28,34,38,40,42,46,48,51	-0.24	-0.38	-0.21	0.25	0.09	0.13	-0.40	0.58	-0.35	-0.54	0.48	1.01	-0.43	-0.50	0.53	-0.77	1.40	**0.65**
964	1,3,7,9,10,15,23,27,28,34,38,40,42,46,48,52,53,54	-0.57	-0.38	-0.56	-0.14	0.63	-0.73	-0.64	0.75	-0.23	-0.54	0.16	0.05	-0.92	-0.50	0.53	-0.77	1.40	**-2.44**
965	1,3,7,9,10,15,23,27,28,34,38,40,42,47,50,54	-1.45	-0.12	-1.41	-1.18	1.51	0.13	-1.35	0.75	0.48	-0.31	-1.13	-0.90	-1.25	-0.50	0.53	-0.77	1.40	**-5.58**
966	1,3,7,9,10,15,23,27,28,34,38,40,42,49,53,54	-1.50	-0.38	-1.43	-1.23	1.48	-0.73	-1.59	1.27	-0.10	-0.44	-0.95	0.05	-1.29	-0.50	0.53	-0.77	1.40	**-6.16**
967	1,3,7,9,10,15,23,27,28,34,38,41,44,55	-0.98	-1.15	-0.68	-1.47	1.35	-1.16	-1.59	0.58	0.22	-0.39	-0.65	-0.90	-0.76	-0.50	0.53	-0.77	1.40	**-6.93**
968	1,3,7,9,10,15,23,27,28,34,38,41,45,55	0.72	-0.12	0.16	-0.45	0.86	0.98	-0.40	1.15	1.55	0.42	0.05	-0.90	0.11	-0.50	0.53	-0.77	1.40	**4.81**
969	1,3,7,9,10,15,23,27,28,34,38,43,47,46,48,51	-0.24	-0.64	-0.21	0.33	0.13	0.13	-0.40	0.58	-0.35	-0.51	0.48	1.01	-0.43	-0.50	0.53	-0.77	1.40	**0.56**
970	1,3,7,9,10,15,23,27,28,34,38,43,47,46,48,52,53,54	-0.57	-0.64	-0.56	-0.06	0.67	-0.73	-0.64	0.75	-0.23	-0.51	0.16	0.05	-0.91	-0.50	0.53	-0.77	1.40	**-2.53**
971	1,3,7,9,10,15,23,27,28,34,38,43,47,49,53,54	-1.49	-0.38	-1.43	-1.16	1.52	-0.73	-1.59	1.27	-0.10	-0.40	-0.94	0.05	-1.29	-0.50	0.53	-0.77	1.40	**-5.99**
972	1,3,7,9,10,15,23,27,28,34,38,43,50,54	-1.59	-0.90	-1.45	-1.27	1.46	-0.73	-1.35	0.75	0.48	-0.36	-1.18	-0.90	-1.33	-0.50	0.53	-0.77	1.40	**-7.71**
973	1,3,7,9,10,16,18,19,22,24,29,36,35,37,40,41,44,55	0.75	0.14	0.52	-1.20	-0.19	0.13	-0.40	-0.91	-0.09	-0.52	0.38	-0.90	1.00	2.30	0.53	-0.77	-0.72	**0.06**
974	1,3,7,9,10,16,18,19,22,24,29,36,35,37,40,41,45,55	2.45	1.18	1.36	-0.18	-0.68	2.27	0.80	-0.34	1.23	0.29	1.08	-0.90	1.88	2.30	0.53	-0.77	-0.72	**11.79**
975	1,3,7,9,10,16,18,19,22,24,29,36,35,37,40,43,47,46,48,51	1.49	1.18	1.00	0.60	-1.41	1.41	0.80	-0.91	-0.66	-0.64	1.51	1.01	1.34	2.30	0.53	-0.77	-0.72	**8.05**
976	1,3,7,9,10,16,18,19,22,24,29,36,35,37,40,43,47,46,48,52,53,54	1.17	1.18	0.64	0.21	-0.87	0.55	0.56	-0.73	-0.54	-0.64	1.19	0.05	0.85	2.30	0.53	-0.77	-0.72	**4.97**
977	1,3,7,9,10,16,18,19,22,24,29,36,35,37,40,43,47,49,53,54	0.24	1.44	-0.23	-0.89	-0.02	0.55	-0.40	-0.21	-0.42	-0.54	0.09	0.05	0.48	2.30	0.53	-0.77	-0.72	**1.50**
978	1,3,7,9,10,16,18,19,22,24,29,36,35,37,40,43,50,54	0.14	0.92	-0.24	-1.00	-0.08	0.55	-0.16	-0.73	0.17	-0.50	-0.16	-0.90	0.44	2.30	0.53	-0.77	-0.72	**-0.22**
979	1,3,7,9,10,16,18,19,22,24,29,36,35,37,42,46,48,51	1.36	0.40	0.96	0.52	-1.45	0.55	0.80	-0.91	-0.66	-0.68	1.47	1.01	1.26	2.30	0.53	-0.77	-0.72	**5.98**
980	1,3,7,9,10,16,18,19,22,24,29,36,35,37,42,46,48,52,53,54	1.04	0.40	0.60	0.13	-0.91	-0.30	0.56	-0.73	-0.54	-0.68	1.15	0.05	0.78	2.30	0.53	-0.77	-0.72	**2.90**
981	1,3,7,9,10,16,18,19,22,24,29,36,35,37,42,47,50,54	0.15	0.66	-0.24	-0.91	-0.03	0.55	-0.16	-0.73	0.17	-0.44	-0.13	-0.90	0.44	2.30	0.53	-0.77	-0.72	**-0.24**
982	1,3,7,9,10,16,18,19,22,24,29,36,35,37,42,49,53,54	0.11	0.40	-0.26	-0.97	-0.06	-0.30	-0.40	-0.21	-0.42	-0.57	0.05	0.05	0.41	2.30	0.53	-0.77	-0.72	**-0.83**
983	1,3,7,9,10,16,18,19,22,24,29,36,38,40,42,46,48,51	1.40	0.66	0.96	0.49	-0.73	0.98	0.80	-0.54	-0.34	-0.66	1.43	1.01	1.27	2.30	0.53	-0.77	1.40	**10.19**
984	1,3,7,9,10,16,18,19,22,24,29,36,38,40,42,46,48,52,53,54	1.07	0.66	0.60	0.10	-0.19	0.13	0.56	-0.37	-0.22	-0.66	1.11	0.05	0.79	2.30	0.53	-0.77	1.40	**7.11**
985	1,3,7,9,10,16,18,19,22,24,29,36,38,40,42,47,50,54	0.19	0.92	-0.24	-0.94	0.69	0.98	-0.16	-0.37	0.49	-0.43	-0.17	-0.90	0.45	2.30	0.53	-0.77	1.40	**3.97**
986	1,3,7,9,10,16,18,19,22,24,29,36,38,40,42,49,53,54	0.15	0.66	-0.26	-1.00	0.66	0.13	-0.40	0.15	-0.09	-0.56	0.01	0.05	0.41	2.30	0.53	-0.77	1.40	**3.38**
987	1,3,7,9,10,16,18,19,22,24,29,36,38,41,44,55	0.66	-0.12	0.49	-1.23	0.53	-0.30	-0.40	-0.54	0.23	-0.51	0.30	-0.90	0.94	2.30	0.53	-0.77	1.40	**2.62**
988	1,3,7,9,10,16,18,19,22,24,29,36,38,41,45,55	2.36	0.92	1.33	-0.21	0.04	1.84	0.80	0.03	1.56	0.30	1.01	-0.90	1.82	2.30	0.53	-0.77	1.40	**14.36**
989	1,3,7,9,10,16,18,19,22,24,29,36,38,43,47,46,48,51	1.40	0.40	0.96	0.57	-0.69	0.98	0.80	-0.54	-0.34	-0.63	1.44	1.01	1.27	2.30	0.53	-0.77	1.40	**10.10**
990	1,3,7,9,10,16,18,19,22,24,29,36,38,43,47,46,48,52,53,54	1.08	0.40	0.61	0.18	-0.15	0.13	0.56	-0.37	-0.22	-0.63	1.12	0.05	0.79	2.30	0.53	-0.77	1.40	**7.02**
991	1,3,7,9,10,16,18,19,22,24,29,36,38,43,47,49,53,54	0.15	0.66	-0.26	-0.92	0.70	0.13	-0.40	0.15	-0.09	-0.53	0.01	0.05	0.42	2.30	0.53	-0.77	1.40	**3.55**
992	1,3,7,9,10,16,18,19,22,24,29,36,38,43,50,54	0.05	0.14	-0.28	-1.03	0.64	0.13	-0.16	-0.37	0.49	-0.48	-0.23	-0.90	0.38	2.30	0.53	-0.77	1.40	**1.83**
993	1,3,7,9,10,16,18,19,22,24,29,39,41,40,42,46,48,51	1.60	0.40	1.79	0.15	-2.07	-0.30	1.52	-0.77	-0.69	0.66	0.16	1.01	1.75	2.30	0.53	-0.77	-0.72	**6.54**
994	1,3,7,9,10,16,18,19,22,24,29,39,41,40,42,46,48,52,53,54	1.28	0.40	1.44	-0.24	-1.53	-1.16	1.28	-0.59	-0.57	0.66	-0.16	0.05	1.26	2.30	0.53	-0.77	-0.72	**3.46**
995	1,3,7,9,10,16,18,19,22,24,29,39,41,40,42,47,50,54	0.39	0.66	0.59	-1.29	-0.65	-0.30	0.56	-0.59	0.14	0.89	-1.44	-0.90	0.93	2.30	0.53	-0.77	-0.72	**0.32**
996	1,3,7,9,10,16,18,19,22,24,29,39,41,40,42,49,53,54	0.35	0.40	0.57	-1.34	-0.68	-1.16	0.32	-0.07	-0.45	0.76	-1.26	0.05	0.89	2.30	0.53	-0.77	-0.72	**-0.27**
997	1,3,7,9,10,16,18,19,22,24,29,39,41,43,47,46,48,51	1.60	0.66	1.79	0.23	-2.02	-0.30	1.52	-0.77	-0.69	0.69	0.17	1.01	1.75	2.30	0.53	-0.77	-0.72	**6.97**
998	1,3,7,9,10,16,18,19,22,24,29,39,41,43,47,46,48,52,53,54	1.28	0.66	1.44	-0.16	-1.49	-1.16	1.28	-0.59	-0.57	0.69	-0.15	0.05	1.27	2.30	0.53	-0.77	-0.72	**3.89**
999	1,3,7,9,10,16,18,19,22,24,29,39,41,43,47,49,53,54	0.35	0.92	0.57	-1.26	-0.63	-1.16	0.32	-0.07	-0.45	0.79	-1.25	0.05	0.90	2.30	0.53	-0.77	-0.72	**0.42**
1000	1,3,7,9,10,16,18,19,22,24,29,39,41,43,50,54	0.25	0.40	0.55	-1.38	-0.70	-1.16	0.56	-0.59	0.14	0.84	-1.50	-0.90	0.85	2.30	0.53	-0.77	-0.72	**-1.30**
1001	1,3,7,9,10,16,18,19,22,24,29,39,44,55	-0.68	-0.90	0.90	-1.57	-0.81	-1.59	-0.64	-0.77	-0.12	0.81	-1.65	-0.90	0.79	2.30	0.53	-0.77	-0.72	**-5.77**
1002	1,3,7,9,10,16,18,19,22,24,29,39,45,55	1.02	0.14	1.74	-0.55	-1.30	0.55	0.56	-0.19	1.20	1.62	-0.94	-0.90	1.67	2.30	0.53	-0.77	-0.72	**5.96**
1003	1,3,7,9,10,16,18,19,22,25,29,36,35,37,40,41,44,55	0.53	-0.12	0.46	-1.63	0.14	0.13	-0.16	-0.89	-0.53	-0.45	0.01	-0.90	0.94	2.34	0.53	-0.77	-0.72	**-1.07**
1004	1,3,7,9,10,16,18,19,22,25,29,36,35,37,40,41,45,55	2.24	0.92	1.30	-0.61	-0.35	2.27	1.04	-0.31	0.80	0.36	0.72	-0.90	1.82	2.34	0.53	-0.77	-0.72	**10.66**
1005	1,3,7,9,10,16,18,19,22,25,29,36,35,37,40,43,47,46,48,51	1.28	0.92	0.94	0.17	-1.07	1.41	1.04	-0.89	-1.10	-0.57	1.14	1.01	1.28	2.34	0.53	-0.77	-0.72	**6.92**
1006	1,3,7,9,10,16,18,19,22,25,29,36,35,37,40,43,47,46,48,52,53,54	0.95	0.92	0.58	-0.22	-0.54	0.55	0.80	-0.71	-0.98	-0.57	0.82	0.05	0.79	2.34	0.53	-0.77	-0.72	**3.84**
1007	1,3,7,9,10,16,18,19,22,25,29,36,35,37,40,43,47,49,53,54	0.02	1.18	-0.28	-1.32	0.32	0.55	-0.16	-0.19	-0.85	-0.47	-0.28	0.05	0.42	2.34	0.53	-0.77	-0.72	**0.37**
1008	1,3,7,9,10,16,18,19,22,25,29,36,35,37,40,43,50,54	-0.08	0.66	-0.30	-1.44	0.25	0.55	0.08	-0.71	-0.27	-0.43	-0.52	-0.90	0.38	2.34	0.53	-0.77	-0.72	**-1.35**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
1009	1,3,7,9,10,16,18,19,22,25,29,36,35,37,42,46,48,51	1.15	0.14	0.90	0.09	-1.12	0.55	1.04	-0.89	-1.10	-0.61	1.11	1.01	1.20	2.34	0.53	-0.77	-0.72	**4.85**
1010	1,3,7,9,10,16,18,19,22,25,29,36,35,37,42,46,48,52,53,54	0.82	0.14	0.55	-0.30	-0.58	-0.30	0.80	-0.71	-0.98	-0.61	0.79	0.05	0.72	2.34	0.53	-0.77	-0.72	**1.76**
1011	1,3,7,9,10,16,18,19,22,25,29,36,35,37,42,47,50,54	-0.06	0.40	-0.30	-1.35	0.30	0.55	0.08	-0.71	-0.27	-0.37	-0.50	-0.90	0.38	2.34	0.53	-0.77	-0.72	**-1.38**
1012	1,3,7,9,10,16,18,19,22,25,29,36,35,37,42,49,53,54	-0.11	0.14	-0.32	-1.40	0.27	-0.30	-0.16	-0.19	-0.85	-0.50	-0.32	0.05	0.35	2.34	0.53	-0.77	-0.72	**-1.96**
1013	1,3,7,9,10,16,18,19,22,25,29,36,38,40,42,46,48,51	1.19	0.40	0.90	0.06	-0.40	0.98	1.04	-0.52	-0.78	-0.59	1.07	1.01	1.21	2.34	0.53	-0.77	1.40	**9.06**
1014	1,3,7,9,10,16,18,19,22,25,29,36,38,40,42,46,48,52,53,54	0.86	0.40	0.55	-0.33	0.14	0.13	0.80	-0.34	-0.66	-0.59	0.75	0.05	0.73	2.34	0.53	-0.77	1.40	**5.98**
1015	1,3,7,9,10,16,18,19,22,25,29,36,38,40,42,47,50,54	-0.02	0.66	-0.30	-1.38	1.02	0.98	0.08	-0.34	0.05	-0.36	-0.54	-0.90	0.39	2.34	0.53	-0.77	1.40	**2.84**
1016	1,3,7,9,10,16,18,19,22,25,29,36,38,40,42,49,53,54	-0.07	0.40	-0.32	-1.43	0.99	0.13	-0.16	0.18	-0.53	-0.49	-0.36	0.05	0.36	2.34	0.53	-0.77	1.40	**2.25**
1017	1,3,7,9,10,16,18,19,22,25,29,36,38,41,44,55	0.44	-0.38	0.43	-1.66	0.86	-0.30	-0.16	-0.52	-0.21	-0.44	-0.07	-0.90	0.88	2.34	0.53	-0.77	1.40	**1.49**
1018	1,3,7,9,10,16,18,19,22,25,29,36,38,41,45,55	2.14	0.66	1.27	-0.64	0.37	1.84	1.04	0.06	1.12	0.37	0.64	-0.90	1.76	2.34	0.53	-0.77	1.40	**13.23**
1019	1,3,7,9,10,16,18,19,22,25,29,36,38,43,47,46,48,51	1.19	0.14	0.90	0.14	-0.36	0.98	1.04	-0.52	-0.78	-0.56	1.07	1.01	1.22	2.34	0.53	-0.77	1.40	**8.97**
1020	1,3,7,9,10,16,18,19,22,25,29,36,38,43,47,46,48,52,53,54	0.86	0.14	0.55	-0.25	0.18	0.13	0.80	-0.34	-0.66	-0.56	0.75	0.05	0.73	2.34	0.53	-0.77	1.40	**5.89**
1021	1,3,7,9,10,16,18,19,22,25,29,36,38,43,47,49,53,54	-0.07	0.40	-0.32	-1.35	1.03	0.13	-0.16	0.18	-0.53	-0.46	-0.35	0.05	0.36	2.34	0.53	-0.77	1.40	**2.42**
1022	1,3,7,9,10,16,18,19,22,25,29,36,38,43,50,54	-0.17	-0.12	-0.34	-1.47	0.97	0.13	0.08	-0.34	0.05	-0.41	-0.59	-0.90	0.32	2.34	0.53	-0.77	1.40	**0.70**
1023	1,3,7,9,10,16,18,19,22,25,29,39,41,40,42,46,48,51	1.39	0.14	1.73	-0.29	-1.73	-0.30	1.75	-0.75	-1.13	0.73	-0.20	1.01	1.69	2.34	0.53	-0.77	-0.72	**5.41**
1024	1,3,7,9,10,16,18,19,22,25,29,39,41,40,42,46,48,52,53,54	1.06	0.14	1.38	-0.67	-1.20	-1.16	1.52	-0.57	-1.01	0.73	-0.52	0.05	1.21	2.34	0.53	-0.77	-0.72	**2.33**
1025	1,3,7,9,10,16,18,19,22,25,29,39,41,40,42,47,50,54	0.18	0.40	0.53	-1.72	-0.32	-0.30	0.80	-0.57	-0.30	0.96	-1.81	-0.90	0.87	2.34	0.53	-0.77	-0.72	**-0.81**
1026	1,3,7,9,10,16,18,19,22,25,29,39,41,40,42,49,53,54	0.13	0.14	0.51	-1.77	-0.35	-1.16	0.56	-0.05	-0.88	0.83	-1.63	0.05	0.83	2.34	0.53	-0.77	-0.72	**-1.40**
1027	1,3,7,9,10,16,18,19,22,25,29,39,41,43,47,46,48,51	1.39	0.40	1.74	-0.21	-1.69	-0.30	1.75	-0.75	-1.13	0.76	-0.20	1.01	1.70	2.34	0.53	-0.77	-0.72	**5.84**
1028	1,3,7,9,10,16,18,19,22,25,29,39,41,43,47,46,48,52,53,54	1.06	0.40	1.38	-0.59	-1.15	-1.16	1.52	-0.57	-1.01	0.76	-0.52	0.05	1.21	2.34	0.53	-0.77	-0.72	**2.76**
1029	1,3,7,9,10,16,18,19,22,25,29,39,41,43,47,49,53,54	0.13	0.66	0.51	-1.69	-0.30	-1.16	0.56	-0.05	-0.88	0.86	-1.62	0.05	0.84	2.34	0.53	-0.77	-0.72	**-0.71**
1030	1,3,7,9,10,16,18,19,22,25,29,39,41,43,50,54	0.03	0.14	0.49	-1.81	-0.37	-1.16	0.80	-0.57	-0.30	0.91	-1.86	-0.90	0.80	2.34	0.53	-0.77	-0.72	**-2.43**
1031	1,3,7,9,10,16,18,19,22,25,29,39,44,55	-0.90	-1.15	0.84	-2.00	-0.47	-1.59	-0.40	-0.75	-0.56	0.88	-2.01	-0.90	0.73	2.34	0.53	-0.77	-0.72	**-6.90**
1032	1,3,7,9,10,16,18,19,22,25,29,39,45,55	0.80	-0.12	1.68	-0.98	-0.96	0.55	0.80	-0.17	0.77	1.69	-1.31	-0.90	1.61	2.34	0.53	-0.77	-0.72	**4.83**
1033	1,3,7,9,10,16,18,21,27,26,30,32,46,47,50,54	1.07	1.70	0.28	-0.97	0.47	2.27	1.52	-0.97	1.55	-0.57	1.21	-0.90	0.98	1.05	0.53	1.14	0.98	**11.34**
1034	1,3,7,9,10,16,18,21,27,26,30,32,46,49,53,54	1.03	1.44	0.26	-1.02	0.44	1.41	1.28	-0.45	0.97	-0.70	1.37	0.05	0.95	1.05	0.53	1.14	0.98	**10.73**
1035	1,3,7,9,10,16,18,21,27,26,30,32,48,51	0.53	0.92	1.01	-1.62	-1.51	2.27	1.99	-1.15	0.72	-0.80	0.86	-0.90	1.45	1.05	0.53	1.14	0.98	**7.48**
1036	1,3,7,9,10,16,18,21,27,26,30,32,48,52,53,54	0.20	0.92	0.65	-2.00	-0.97	1.41	1.75	-0.97	0.85	-0.80	0.54	-1.85	0.97	1.05	0.53	1.14	0.98	**4.40**
1037	1,3,7,9,10,16,18,21,27,26,31,34,35,37,40,41,44,55	-0.75	0.40	-0.61	-0.95	0.74	0.13	-1.11	-0.55	-0.05	-1.19	0.40	-0.90	-0.55	0.33	0.53	1.14	-0.72	**-3.73**
1038	1,3,7,9,10,16,18,21,27,26,31,34,35,37,40,41,45,55	0.95	1.44	0.23	0.07	0.25	2.27	0.08	0.02	1.27	-0.38	1.11	-0.90	0.32	0.33	0.53	1.14	-0.72	**8.00**
1039	1,3,7,9,10,16,18,21,27,26,31,34,35,37,40,43,47,46,48,51	-0.01	1.44	-0.14	0.84	-0.48	1.41	0.08	-0.55	-0.63	-1.31	1.53	1.01	-0.22	0.33	0.53	1.14	-0.72	**4.27**
1040	1,3,7,9,10,16,18,21,27,26,31,34,35,37,40,43,47,46,48,52,53,54	-0.33	1.44	-0.49	0.46	0.06	0.55	-0.16	-0.38	-0.50	-1.31	1.22	0.05	-0.70	0.33	0.53	1.14	-0.72	**1.18**
1041	1,3,7,9,10,16,18,21,27,26,31,34,35,37,40,43,47,49,53,54	-1.26	1.70	-1.36	-0.64	0.91	0.55	-1.11	0.14	-0.38	-1.20	0.11	0.05	-1.07	0.33	0.53	1.14	-0.72	**-2.29**
1042	1,3,7,9,10,16,18,21,27,26,31,34,35,37,40,43,50,54	-1.36	1.18	-1.38	-0.76	0.84	0.55	-0.87	-0.38	0.20	-1.16	-0.13	-0.90	-1.12	0.33	0.53	1.14	-0.72	**-4.00**
1043	1,3,7,9,10,16,18,21,27,26,31,34,35,37,42,46,48,51	-0.14	0.66	-0.17	0.76	-0.52	0.55	0.08	-0.55	-0.63	-1.34	1.50	1.01	-0.29	0.33	0.53	1.14	-0.72	**2.19**
1044	1,3,7,9,10,16,18,21,27,26,31,34,35,37,42,46,48,52,53,54	-0.47	0.66	-0.53	0.38	0.01	-0.30	-0.16	-0.38	-0.50	-1.34	1.18	0.05	-0.77	0.33	0.53	1.14	-0.72	**-0.89**
1045	1,3,7,9,10,16,18,21,27,26,31,34,35,37,42,47,50,54	-1.35	0.92	-1.38	-0.67	0.89	0.55	-0.87	-0.38	0.20	-1.11	-0.11	-0.90	-1.11	0.33	0.53	1.14	-0.72	**-4.03**
1046	1,3,7,9,10,16,18,21,27,26,31,34,35,37,42,49,53,54	-1.39	0.66	-1.40	-0.72	0.86	-0.30	-1.11	0.14	-0.38	-1.24	0.07	0.05	-1.15	0.33	0.53	1.14	-0.72	**-4.62**
1047	1,3,7,9,10,16,18,21,27,26,31,34,36,39,41,40,42,46,48,51	1.19	1.44	0.95	1.02	-1.14	0.55	0.80	-0.41	-0.66	0.63	0.43	1.01	0.75	0.33	0.53	1.14	-0.72	**7.85**
1048	1,3,7,9,10,16,18,21,27,26,31,34,36,39,41,40,42,46,48,52,53,54	0.87	1.44	0.60	0.63	-0.61	-0.30	0.56	-0.23	-0.53	0.63	0.11	0.05	0.27	0.33	0.53	1.14	-0.72	**4.76**
1049	1,3,7,9,10,16,18,21,27,26,31,34,36,39,41,40,42,47,50,54	-0.02	1.70	-0.25	-0.42	0.27	0.55	-0.16	-0.23	0.17	0.86	-1.18	-0.90	-0.07	0.33	0.53	1.14	-0.72	**1.62**
1050	1,3,7,9,10,16,18,21,27,26,31,34,36,39,41,40,42,49,53,54	-0.06	1.44	-0.27	-0.47	0.25	-0.30	-0.40	0.29	-0.41	0.74	-0.99	0.05	-0.10	0.33	0.53	1.14	-0.72	**1.04**
1051	1,3,7,9,10,16,18,21,27,26,31,34,36,39,41,43,47,46,48,51	1.20	1.70	0.96	1.10	-1.10	0.55	0.80	-0.41	-0.66	0.66	0.44	1.01	0.76	0.33	0.53	1.14	-0.72	**8.28**
1052	1,3,7,9,10,16,18,21,27,26,31,34,36,39,41,43,47,46,48,52,53,54	0.87	1.70	0.60	0.71	-0.56	-0.30	0.56	-0.23	-0.53	0.66	0.12	0.05	0.27	0.33	0.53	1.14	-0.72	**5.19**
1053	1,3,7,9,10,16,18,21,27,26,31,34,36,39,41,43,47,49,53,54	-0.06	1.96	-0.27	-0.39	0.29	-0.30	-0.40	0.29	-0.41	0.77	-0.99	0.05	-0.10	0.33	0.53	1.14	-0.72	**1.73**
1054	1,3,7,9,10,16,18,21,27,26,31,34,36,39,41,43,50,54	-0.16	1.44	-0.29	-0.51	0.23	-0.30	-0.16	-0.23	0.17	0.81	-1.23	-0.90	-0.14	0.33	0.53	1.14	-0.72	**0.01**
1055	1,3,7,9,10,16,18,21,27,26,31,34,36,39,44,55	-1.09	0.14	0.06	-0.70	0.12	-0.73	-1.35	-0.41	-0.08	0.79	-1.38	-0.90	-0.21	0.33	0.53	1.14	-0.72	**-4.47**
1056	1,3,7,9,10,16,18,21,27,26,31,34,36,39,45,55	0.61	1.18	0.90	0.32	-0.37	1.41	-0.16	0.17	1.24	1.60	-0.68	-0.90	0.67	0.33	0.53	1.14	-0.72	**7.27**
1057	1,3,7,9,10,16,18,21,27,26,31,34,38,40,42,46,48,51	-0.10	0.66	-0.17	0.73	0.19	0.98	0.08	-0.19	-0.30	-1.33	1.46	1.01	-0.28	0.33	0.53	1.14	1.40	**6.15**
1058	1,3,7,9,10,16,18,21,27,26,31,34,38,40,42,46,48,52,53,54	-0.43	0.66	-0.53	0.35	0.73	0.13	-0.16	-0.01	-0.18	-1.33	1.14	0.05	-0.77	0.33	0.53	1.14	1.40	**3.06**
1059	1,3,7,9,10,16,18,21,27,26,31,34,38,40,42,47,50,54	-1.31	0.92	-1.38	-0.70	1.61	0.98	-0.87	-0.01	0.52	-1.10	-0.15	-0.90	-1.10	0.33	0.53	1.14	1.40	**-0.08**
1060	1,3,7,9,10,16,18,21,27,26,31,34,38,40,42,49,53,54	-1.35	0.66	-1.40	-0.75	1.58	0.13	-1.11	0.51	-0.06	-1.23	0.03	0.05	-1.14	0.33	0.53	1.14	1.40	**-0.66**
1061	1,3,7,9,10,16,18,21,27,26,31,34,38,41,44,55	-0.84	-0.12	-0.65	-0.98	1.45	-0.30	-1.11	-0.19	0.27	-1.17	0.33	-0.90	-0.61	0.33	0.53	1.14	1.40	**-1.43**
1062	1,3,7,9,10,16,18,21,27,26,31,34,38,41,45,55	0.86	0.92	0.19	0.03	0.96	1.84	0.08	0.39	1.59	-0.36	1.03	-0.90	0.26	0.33	0.53	1.14	1.40	**10.31**
1063	1,3,7,9,10,16,18,21,27,26,31,34,38,43,47,46,48,51	-0.10	0.40	-0.17	0.81	0.24	0.98	0.08	-0.19	-0.30	-1.30	1.46	1.01	-0.28	0.33	0.53	1.14	1.40	**6.06**
1064	1,3,7,9,10,16,18,21,27,26,31,34,38,43,47,46,48,52,53,54	-0.42	0.40	-0.53	0.43	0.77	0.13	-0.16	-0.01	-0.18	-1.30	1.14	0.05	-0.76	0.33	0.53	1.14	1.40	**2.97**
1065	1,3,7,9,10,16,18,21,27,26,31,34,38,43,47,49,53,54	-1.35	0.66	-1.40	-0.67	1.63	0.13	-1.11	0.51	-0.06	-1.19	0.04	0.05	-1.13	0.33	0.53	1.14	1.40	**-0.49**
1066	1,3,7,9,10,16,18,21,27,26,31,34,38,43,50,54	-1.45	0.14	-1.41	-0.79	1.56	0.13	-0.87	-0.01	0.52	-1.15	-0.20	-0.90	-1.18	0.33	0.53	1.14	1.40	**-2.21**
1067	1,3,7,9,10,16,18,21,27,26,33,37,40,41,44,55	-0.82	-0.64	-0.64	-0.98	0.38	0.13	-0.87	-0.55	-0.36	-1.17	0.35	-0.90	-0.57	0.33	0.53	1.14	-0.72	**-5.37**
1068	1,3,7,9,10,16,18,21,27,26,33,37,40,41,45,55	0.88	0.40	0.20	0.04	-0.11	2.27	0.32	0.02	0.97	-0.36	1.06	-0.90	0.30	0.33	0.53	1.14	-0.72	**6.37**
1069	1,3,7,9,10,16,18,21,27,26,33,37,40,43,47,46,48,51	-0.07	0.40	-0.17	0.82	-0.84	1.41	0.32	-0.55	-0.93	-1.29	1.48	1.01	-0.24	0.33	0.53	1.14	-0.72	**2.63**
1070	1,3,7,9,10,16,18,21,27,26,33,37,40,43,47,46,48,52,53,54	-0.40	0.40	-0.52	0.43	-0.30	0.55	0.08	-0.38	-0.81	-1.29	1.16	0.05	-0.72	0.33	0.53	1.14	-0.72	**-0.45**
1071	1,3,7,9,10,16,18,21,27,26,33,37,40,43,47,49,53,54	-1.33	0.66	-1.39	-0.67	0.55	0.55	-0.87	0.14	-0.68	-1.19	0.06	0.05	-1.09	0.33	0.53	1.14	-0.72	**-3.92**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
1072	1,3,7,9,10,16,18,21,27,26,33,37,40,43,50,54	-1.43	0.14	-1.41	-0.78	0.49	0.55	-0.64	-0.38	-0.10	-1.14	-0.18	-0.90	-1.14	0.33	0.53	1.14	-0.72	**-5.64**
1073	1,3,7,9,10,16,18,21,27,26,33,37,42,46,48,51	-0.20	-0.38	-0.20	0.74	-0.88	0.55	0.32	-0.55	-0.93	-1.32	1.44	1.01	-0.31	0.33	0.53	1.14	-0.72	**0.56**
1074	1,3,7,9,10,16,18,21,27,26,33,37,42,46,48,52,53,54	-0.53	-0.38	-0.56	0.35	-0.35	-0.30	0.08	-0.38	-0.81	-1.32	1.13	0.05	-0.79	0.33	0.53	1.14	-0.72	**-2.53**
1075	1,3,7,9,10,16,18,21,27,26,33,37,42,47,50,54	-1.41	-0.12	-1.41	-0.69	0.53	0.55	-0.64	-0.38	-0.10	-1.09	-0.16	-0.90	-1.13	0.33	0.53	1.14	-0.72	**-5.67**
1076	1,3,7,9,10,16,18,21,27,26,33,37,42,49,53,54	-1.46	-0.38	-1.43	-0.74	0.51	-0.30	-0.87	0.14	-0.68	-1.22	0.02	0.05	-1.17	0.33	0.53	1.14	-0.72	**-6.25**
1077	1,3,7,9,10,16,18,21,28,31,30,32,46,47,50,54	1.00	1.18	0.21	-0.94	0.68	2.27	1.52	-0.97	1.20	-0.32	0.95	-0.90	0.89	1.05	0.53	-0.77	0.98	**8.54**
1078	1,3,7,9,10,16,18,21,28,31,30,32,46,49,53,54	0.96	0.92	0.19	-1.00	0.65	1.41	1.28	-0.45	0.62	-0.45	1.11	0.05	0.85	1.05	0.53	-0.77	0.98	**7.93**
1079	1,3,7,9,10,16,18,21,28,31,30,32,48,51	0.46	0.40	0.94	-1.59	-1.31	2.27	1.99	-1.15	0.37	-0.55	0.60	-0.90	1.36	1.05	0.53	-0.77	0.98	**4.68**
1080	1,3,7,9,10,16,18,21,28,31,30,32,48,52,53,54	0.13	0.40	0.58	-1.98	-0.77	1.41	1.75	-0.97	0.49	-0.55	0.28	-1.85	0.88	1.05	0.53	-0.77	0.98	**1.60**
1081	1,3,7,9,10,16,18,21,28,31,33,37,40,41,44,55	-0.89	-0.64	-0.71	-0.95	0.58	0.13	-0.87	-0.55	-0.71	-0.92	0.09	-0.90	-0.66	0.33	0.53	-0.77	-0.72	**-7.65**
1082	1,3,7,9,10,16,18,21,28,31,33,37,40,41,45,55	0.81	0.40	0.13	0.07	0.09	2.27	0.32	0.02	0.61	-0.11	0.80	-0.90	0.21	0.33	0.53	-0.77	-0.72	**4.09**
1083	1,3,7,9,10,16,18,21,28,31,33,37,40,43,47,46,48,51	-0.14	0.40	-0.24	0.85	-0.63	1.41	0.32	-0.55	-1.28	-1.05	1.22	1.01	-0.33	0.33	0.53	-0.77	-0.72	**0.35**
1084	1,3,7,9,10,16,18,21,28,31,33,37,40,43,47,46,48,52,53,54	-0.47	0.40	-0.59	0.46	-0.10	0.55	0.08	-0.38	-1.16	-1.05	0.90	0.05	-0.81	0.33	0.53	-0.77	-0.72	**-2.74**
1085	1,3,7,9,10,16,18,21,28,31,33,37,40,43,47,49,53,54	-1.40	0.66	-1.46	-0.64	0.76	0.55	-0.87	0.14	-1.04	-0.94	-0.20	0.05	-1.19	0.33	0.53	-0.77	-0.72	**-6.20**
1086	1,3,7,9,10,16,18,21,28,31,33,37,40,43,50,54	-1.50	0.14	-1.48	-0.76	0.69	0.55	-0.64	-0.38	-0.45	-0.90	-0.44	-0.90	-1.23	0.33	0.53	-0.77	-0.72	**-7.92**
1087	1,3,7,9,10,16,18,21,28,31,33,37,42,46,48,51	-0.28	-0.38	-0.27	0.77	-0.68	0.55	0.32	-0.55	-1.28	-1.08	1.19	1.01	-0.40	0.33	0.53	-0.77	-0.72	**-1.72**
1088	1,3,7,9,10,16,18,21,28,31,33,37,42,46,48,52,53,54	-0.60	-0.38	-0.63	0.38	-0.14	-0.30	0.08	-0.38	-1.16	-1.08	0.87	0.05	-0.89	0.33	0.53	-0.77	-0.72	**-4.81**
1089	1,3,7,9,10,16,18,21,28,31,33,37,42,47,50,54	-1.49	-0.12	-1.48	-0.67	0.74	0.55	-0.64	-0.38	-0.45	-0.85	-0.42	-0.90	-1.22	0.33	0.53	-0.77	-0.72	**-7.95**
1090	1,3,7,9,10,16,18,21,28,31,33,37,42,49,53,54	-1.53	-0.38	-1.50	-0.72	0.71	-0.30	-0.87	0.14	-1.04	-0.98	-0.24	0.05	-1.26	0.33	0.53	-0.77	-0.72	**-8.53**
1091	1,3,7,9,10,16,18,21,28,34,35,37,40,41,44,55	-0.92	-0.64	-0.71	-0.93	0.94	0.13	-1.11	-0.55	-0.41	-0.97	0.07	-0.90	-0.71	0.33	0.53	-0.77	-0.72	**-7.34**
1092	1,3,7,9,10,16,18,21,28,34,35,37,40,41,45,55	0.78	0.40	0.13	0.09	0.45	2.27	0.08	0.02	0.92	-0.16	0.77	-0.90	0.17	0.33	0.53	-0.77	-0.72	**4.40**
1093	1,3,7,9,10,16,18,21,28,34,35,37,40,43,47,46,48,51	-0.17	0.40	-0.23	0.87	-0.28	1.41	0.08	-0.55	-0.98	-1.09	1.20	1.01	-0.37	0.33	0.53	-0.77	-0.72	**0.66**
1094	1,3,7,9,10,16,18,21,28,34,35,37,40,43,47,46,48,52,53,54	-0.50	0.40	-0.59	0.48	0.26	0.55	-0.16	-0.38	-0.86	-1.09	0.88	0.05	-0.86	0.33	0.53	-0.77	-0.72	**-2.43**
1095	1,3,7,9,10,16,18,21,28,34,35,37,40,43,47,49,53,54	-1.43	0.66	-1.45	-0.62	1.11	0.55	-1.11	0.14	-0.73	-0.99	-0.22	0.05	-1.23	0.33	0.53	-0.77	-0.72	**-5.89**
1096	1,3,7,9,10,16,18,21,28,34,35,37,40,43,50,54	-1.53	0.14	-1.47	-0.73	1.05	0.55	-0.87	-0.38	-0.15	-0.94	-0.47	-0.90	-1.27	0.33	0.53	-0.77	-0.72	**-7.61**
1097	1,3,7,9,10,16,18,21,28,34,35,37,42,46,48,51	-0.31	-0.38	-0.27	0.79	-0.32	0.55	0.08	-0.55	-0.98	-1.12	1.16	1.01	-0.45	0.33	0.53	-0.77	-0.72	**-1.41**
1098	1,3,7,9,10,16,18,21,28,34,35,37,42,46,48,52,53,54	-0.63	-0.38	-0.62	0.40	0.22	-0.30	-0.16	-0.38	-0.86	-1.12	0.84	0.05	-0.93	0.33	0.53	-0.77	-0.72	**-4.50**
1099	1,3,7,9,10,16,18,21,28,34,35,37,42,47,50,54	-1.52	-0.12	-1.47	-0.64	1.10	0.55	-0.87	-0.38	-0.15	-0.89	-0.44	-0.90	-1.27	0.33	0.53	-0.77	-0.72	**-7.64**
1100	1,3,7,9,10,16,18,21,28,34,35,37,42,49,53,54	-1.56	-0.38	-1.49	-0.70	1.07	-0.30	-1.11	0.14	-0.73	-1.02	-0.26	0.05	-1.30	0.33	0.53	-0.77	-0.72	**-8.23**
1101	1,3,7,9,10,16,18,21,28,34,36,39,41,40,42,46,48,51	1.03	0.40	0.86	1.05	-0.94	0.55	0.80	-0.41	-1.01	0.85	0.09	1.01	0.60	0.33	0.53	-0.77	-0.72	**4.24**
1102	1,3,7,9,10,16,18,21,28,34,36,39,41,40,42,46,48,52,53,54	0.70	0.40	0.50	0.66	-0.40	-0.30	0.56	-0.23	-0.89	0.85	-0.22	0.05	0.11	0.33	0.53	-0.77	-0.72	**1.16**
1103	1,3,7,9,10,16,18,21,28,34,36,39,41,40,42,47,50,54	-0.18	0.66	-0.34	-0.39	0.48	0.55	-0.16	-0.23	-0.18	1.08	-1.51	-0.90	-0.23	0.33	0.53	-0.77	-0.72	**-1.98**
1104	1,3,7,9,10,16,18,21,28,34,36,39,41,40,42,49,53,54	-0.23	0.40	-0.36	-0.44	0.45	-0.30	-0.40	0.29	-0.76	0.96	-1.33	0.05	-0.26	0.33	0.53	-0.77	-0.72	**-2.57**
1105	1,3,7,9,10,16,18,21,28,34,36,39,41,43,47,46,48,51	1.03	0.66	0.86	1.13	-0.89	0.55	0.80	-0.41	-1.01	0.88	0.10	1.01	0.60	0.33	0.53	-0.77	-0.72	**4.67**
1106	1,3,7,9,10,16,18,21,28,34,36,39,41,43,47,46,48,52,53,54	0.70	0.66	0.51	0.74	-0.36	-0.30	0.56	-0.23	-0.89	0.88	-0.22	0.05	0.11	0.33	0.53	-0.77	-0.72	**1.59**
1107	1,3,7,9,10,16,18,21,28,34,36,39,41,43,47,49,53,54	-0.22	0.92	-0.36	-0.36	0.50	-0.30	-0.40	0.29	-0.76	0.99	-1.32	0.05	-0.26	0.33	0.53	-0.77	-0.72	**-1.88**
1108	1,3,7,9,10,16,18,21,28,34,36,39,41,43,50,54	-0.32	0.40	-0.38	-0.48	0.43	-0.30	-0.16	-0.23	-0.18	1.03	-1.57	-0.90	-0.30	0.33	0.53	-0.77	-0.72	**-3.60**
1109	1,3,7,9,10,16,18,21,28,34,36,39,44,55	-1.26	-0.90	-0.03	-0.67	0.32	-0.73	-1.35	-0.41	-0.44	1.01	-1.72	-0.90	-0.36	0.33	0.53	-0.77	-0.72	**-8.07**
1110	1,3,7,9,10,16,18,21,28,34,36,39,45,55	0.44	0.14	0.81	0.35	-0.17	1.41	-0.16	0.17	0.89	1.82	-1.01	-0.90	0.51	0.33	0.53	-0.77	-0.72	**3.66**
1111	1,3,7,9,10,16,18,21,28,34,38,40,42,46,48,51	-0.27	-0.38	-0.27	0.76	0.40	0.98	0.08	-0.19	-0.66	-1.11	1.12	1.01	-0.44	0.33	0.53	-0.77	1.40	**2.54**
1112	1,3,7,9,10,16,18,21,28,34,38,40,42,46,48,52,53,54	-0.59	-0.38	-0.63	0.37	0.94	0.13	-0.16	-0.01	-0.53	-1.11	0.80	0.05	-0.92	0.33	0.53	-0.77	1.40	**-0.55**
1113	1,3,7,9,10,16,18,21,28,34,38,40,42,47,50,54	-1.48	-0.12	-1.47	-0.67	1.82	0.98	-0.87	-0.01	0.17	-0.88	-0.48	-0.90	-1.26	0.33	0.53	-0.77	1.40	**-3.69**
1114	1,3,7,9,10,16,18,21,28,34,38,40,42,49,53,54	-1.52	-0.38	-1.49	-0.73	1.79	0.13	-1.11	0.51	-0.41	-1.01	-0.30	0.05	-1.30	0.33	0.53	-0.77	1.40	**-4.27**
1115	1,3,7,9,10,16,18,21,28,34,38,41,44,55	-1.01	-1.15	-0.74	-0.96	1.66	-0.30	-1.11	-0.19	-0.08	-0.95	-0.01	-0.90	-0.77	0.33	0.53	-0.77	1.40	**-5.03**
1116	1,3,7,9,10,16,18,21,28,34,38,41,45,55	0.69	-0.12	0.10	0.06	1.17	1.84	0.08	0.39	1.24	-0.14	0.70	-0.90	0.10	0.33	0.53	-0.77	1.40	**6.70**
1117	1,3,7,9,10,16,18,21,28,34,38,43,47,46,48,51	-0.26	-0.64	-0.27	0.84	0.44	0.98	0.08	-0.19	-0.66	-1.08	1.13	1.01	-0.44	0.33	0.53	-0.77	1.40	**2.45**
1118	1,3,7,9,10,16,18,21,28,34,38,43,47,46,48,52,53,54	-0.59	-0.64	-0.62	0.45	0.98	0.13	-0.16	-0.01	-0.53	-1.08	0.81	0.05	-0.92	0.33	0.53	-0.77	1.40	**-0.64**
1119	1,3,7,9,10,16,18,21,28,34,38,43,47,49,53,54	-1.52	-0.38	-1.49	-0.65	1.83	0.13	-1.11	0.51	-0.41	-0.97	-0.30	0.05	-1.29	0.33	0.53	-0.77	1.40	**-4.10**
1120	1,3,7,9,10,16,18,21,28,34,38,43,50,54	-1.62	-0.90	-1.51	-0.77	1.77	0.13	-0.87	-0.01	0.17	-0.93	-0.54	-0.90	-1.34	0.33	0.53	-0.77	1.40	**-5.82**
1121	1,3,7,9,10,16,20,23,26,30,32,46,47,50,54	0.98	0.66	0.12	-0.72	0.44	1.41	1.04	-0.28	2.09	-0.12	0.76	-0.90	0.65	0.95	0.53	1.14	0.98	**9.72**
1122	1,3,7,9,10,16,20,23,26,30,32,46,49,53,54	0.94	0.40	0.10	-0.78	0.41	0.55	0.80	0.24	1.51	-0.25	0.92	0.05	0.62	0.95	0.53	1.14	0.98	**9.12**
1123	1,3,7,9,10,16,20,23,26,30,32,48,51	0.44	-0.12	0.85	-1.37	-1.55	1.41	1.52	-0.46	1.26	-0.36	0.41	-0.90	1.13	0.95	0.53	1.14	0.98	**5.87**
1124	1,3,7,9,10,16,20,23,26,30,32,48,52,53,54	0.11	-0.12	0.49	-1.76	-1.01	0.55	1.28	-0.28	1.38	-0.36	0.09	-1.85	0.64	0.95	0.53	1.14	0.98	**2.78**
1125	1,3,7,9,10,16,20,23,26,31,34,35,37,40,41,44,55	-0.84	-0.64	-0.77	-0.71	0.70	-0.73	-1.59	0.14	0.48	-0.74	-0.04	-0.90	-0.88	0.23	0.53	1.14	-0.72	**-5.35**
1126	1,3,7,9,10,16,20,23,26,31,34,35,37,40,41,45,55	0.86	0.40	0.07	0.31	0.21	1.41	-0.40	0.71	1.81	0.07	0.66	-0.90	0.00	0.23	0.53	1.14	-0.72	**6.39**
1127	1,3,7,9,10,16,20,23,26,31,34,35,37,40,43,47,46,48,51	-0.09	0.40	-0.30	1.09	-0.51	0.55	-0.40	0.14	-0.09	-0.87	1.09	1.01	-0.54	0.23	0.53	1.14	-0.72	**2.65**
1128	1,3,7,9,10,16,20,23,26,31,34,35,37,40,43,47,46,48,52,53,54	-0.42	0.40	-0.66	0.70	0.02	-0.30	-0.64	0.31	0.03	-0.87	0.77	0.05	-1.03	0.23	0.53	1.14	-0.72	**-0.43**
1129	1,3,7,9,10,16,20,23,26,31,34,35,37,40,43,47,49,53,54	-1.35	0.66	-1.52	-0.40	0.87	-0.30	-1.59	0.83	0.16	-0.76	-0.33	0.05	-1.40	0.23	0.53	1.14	-0.72	**-3.90**
1130	1,3,7,9,10,16,20,23,26,31,34,35,37,40,43,50,54	-1.45	0.14	-1.54	-0.51	0.81	-0.30	-1.35	0.31	0.74	-0.72	-0.58	-0.90	-1.44	0.23	0.53	1.14	-0.72	**-5.62**
1131	1,3,7,9,10,16,20,23,26,31,34,35,37,42,46,48,51	-0.23	-0.38	-0.34	1.01	-0.56	-0.30	-0.40	0.14	-0.09	-0.90	1.05	1.01	-0.62	0.23	0.53	1.14	-0.72	**0.58**
1132	1,3,7,9,10,16,20,23,26,31,34,35,37,42,46,48,52,53,54	-0.55	-0.38	-0.69	0.62	-0.02	-1.16	-0.64	0.31	0.03	-0.90	0.73	0.05	-1.10	0.23	0.53	1.14	-0.72	**-2.51**
1133	1,3,7,9,10,16,20,23,26,31,34,35,37,42,47,50,54	-1.44	-0.12	-1.54	-0.42	0.86	-0.30	-1.35	0.31	0.74	-0.67	-0.55	-0.90	-1.44	0.23	0.53	1.14	-0.72	**-5.65**
1134	1,3,7,9,10,16,20,23,26,31,34,35,37,42,49,53,54	-1.48	-0.38	-1.56	-0.48	0.83	-1.16	-1.59	0.83	0.16	-0.79	-0.37	0.05	-1.47	0.23	0.53	1.14	-0.72	**-6.23**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
1135	1,3,7,9,10,16,20,23,26,31,34,36,39,41,40,42,46,48,51	1.11	0.40	0.79	1.27	-1.18	-0.30	0.32	0.28	-0.12	1.08	-0.02	1.01	0.43	0.23	0.53	1.14	-0.72	**6.24**
1136	1,3,7,9,10,16,20,23,26,31,34,36,39,41,40,42,46,48,52,53,54	0.78	0.40	0.44	0.88	-0.64	-1.16	0.08	0.46	0.00	1.08	-0.33	0.05	-0.06	0.23	0.53	1.14	-0.72	**3.15**
1137	1,3,7,9,10,16,20,23,26,31,34,36,39,41,40,42,47,50,54	-0.10	0.66	-0.41	-0.17	0.24	-0.30	-0.64	0.46	0.71	1.31	-1.62	-0.90	-0.39	0.23	0.53	1.14	-0.72	**0.01**
1138	1,3,7,9,10,16,20,23,26,31,34,36,39,41,40,42,49,53,54	-0.15	0.40	-0.43	-0.22	0.21	-1.16	-0.87	0.98	0.13	1.18	-1.44	0.05	-0.43	0.23	0.53	1.14	-0.72	**-0.57**
1139	1,3,7,9,10,16,20,23,26,31,34,36,39,41,43,47,46,48,51	1.11	0.66	0.79	1.35	-1.13	-0.30	0.32	0.28	-0.12	1.11	-0.01	1.01	0.43	0.23	0.53	1.14	-0.72	**6.66**
1140	1,3,7,9,10,16,20,23,26,31,34,36,39,41,43,47,46,48,52,53,54	0.78	0.66	0.44	0.96	-0.60	-1.16	0.08	0.46	0.00	1.11	-0.33	0.05	-0.05	0.23	0.53	1.14	-0.72	**3.58**
1141	1,3,7,9,10,16,20,23,26,31,34,36,39,41,43,47,49,53,54	-0.15	0.92	-0.43	-0.14	0.26	-1.16	-0.87	0.98	0.13	1.21	-1.43	0.05	-0.43	0.23	0.53	1.14	-0.72	**0.11**
1142	1,3,7,9,10,16,20,23,26,31,34,36,39,41,43,50,54	-0.25	0.40	-0.45	-0.26	0.19	-1.16	-0.64	0.46	0.71	1.26	-1.67	-0.90	-0.47	0.23	0.53	1.14	-0.72	**-1.61**
1143	1,3,7,9,10,16,20,23,26,31,34,36,39,44,55	-1.18	-0.90	-0.10	-0.45	0.08	-1.59	-1.83	0.28	0.45	1.23	-1.83	-0.90	-0.53	0.23	0.53	1.14	-0.72	**-6.08**
1144	1,3,7,9,10,16,20,23,26,31,34,36,39,45,55	0.52	0.14	0.74	0.57	-0.41	0.55	-0.64	0.86	1.78	2.04	-1.12	-0.90	0.34	0.23	0.53	1.14	-0.72	**5.66**
1145	1,3,7,9,10,16,20,23,26,31,34,38,40,42,46,48,51	-0.19	-0.38	-0.34	0.98	0.16	0.13	-0.40	0.50	0.23	-0.89	1.01	1.01	-0.61	0.23	0.53	1.14	1.40	**4.53**
1146	1,3,7,9,10,16,20,23,26,31,34,38,40,42,46,48,52,53,54	-0.51	-0.38	-0.69	0.59	0.70	-0.73	-0.64	0.68	0.35	-0.89	0.69	0.05	-1.09	0.23	0.53	1.14	1.40	**1.45**
1147	1,3,7,9,10,16,20,23,26,31,34,38,40,42,47,50,54	-1.40	-0.12	-1.54	-0.45	1.58	0.13	-1.35	0.68	1.06	-0.65	-0.59	-0.90	-1.43	0.23	0.53	1.14	1.40	**-1.69**
1148	1,3,7,9,10,16,20,23,26,31,34,38,40,42,49,53,54	-1.44	-0.38	-1.56	-0.51	1.55	-0.73	-1.59	1.20	0.48	-0.78	-0.41	0.05	-1.46	0.23	0.53	1.14	1.40	**-2.28**
1149	1,3,7,9,10,16,20,23,26,31,34,38,41,44,55	-0.93	-1.15	-0.81	-0.74	1.42	-1.16	-1.59	0.50	0.81	-0.73	-0.12	-0.90	-0.94	0.23	0.53	1.14	1.40	**-3.04**
1150	1,3,7,9,10,16,20,23,26,31,34,38,41,45,55	0.77	-0.12	0.03	0.28	0.93	0.98	-0.40	1.08	2.13	0.08	0.59	-0.90	-0.06	0.23	0.53	1.14	1.40	**8.70**
1151	1,3,7,9,10,16,20,23,26,31,34,38,43,47,46,48,51	-0.19	-0.64	-0.34	1.06	0.20	0.13	-0.40	0.50	0.23	-0.85	1.02	1.01	-0.60	0.23	0.53	1.14	1.40	**4.44**
1152	1,3,7,9,10,16,20,23,26,31,34,38,43,47,46,48,52,53,54	-0.51	-0.64	-0.69	0.67	0.74	-0.73	-0.64	0.68	0.35	-0.85	0.70	0.05	-1.09	0.23	0.53	1.14	1.40	**1.36**
1153	1,3,7,9,10,16,20,23,26,31,34,38,43,47,49,53,54	-1.44	-0.38	-1.56	-0.43	1.59	-0.73	-1.59	1.20	0.48	-0.75	-0.41	0.05	-1.46	0.23	0.53	1.14	1.40	**-2.11**
1154	1,3,7,9,10,16,20,23,26,31,34,38,43,50,54	-1.54	-0.90	-1.58	-0.54	1.53	-0.73	-1.35	0.68	1.06	-0.71	-0.65	-0.90	-1.50	0.23	0.53	1.14	1.40	**-3.83**
1155	1,3,7,9,10,16,20,23,26,33,37,40,41,44,55	-0.90	-1.67	-0.81	-0.73	0.34	-0.73	-1.35	0.14	0.18	-0.73	-0.10	-0.90	-0.90	0.23	0.53	1.14	-0.72	**-6.98**
1156	1,3,7,9,10,16,20,23,26,33,37,40,41,45,55	0.80	-0.64	0.03	0.29	-0.15	1.41	-0.16	0.71	1.50	0.09	0.61	-0.90	-0.02	0.23	0.53	1.14	-0.72	**4.76**
1157	1,3,7,9,10,16,20,23,26,33,37,40,43,47,46,48,51	-0.16	-0.64	-0.33	1.07	-0.87	0.55	-0.16	0.14	-0.39	-0.85	1.04	1.01	-0.56	0.23	0.53	1.14	-0.72	**1.02**
1158	1,3,7,9,10,16,20,23,26,33,37,40,43,47,46,48,52,53,54	-0.49	-0.64	-0.69	0.68	-0.34	-0.30	-0.40	0.31	-0.27	-0.85	0.72	0.05	-1.05	0.23	0.53	1.14	-0.72	**-2.07**
1159	1,3,7,9,10,16,20,23,26,33,37,40,43,47,49,53,54	-1.41	-0.38	-1.55	-0.42	0.52	-0.30	-1.35	0.83	-0.15	-0.74	-0.39	0.05	-1.42	0.23	0.53	1.14	-0.72	**-5.53**
1160	1,3,7,9,10,16,20,23,26,33,37,40,43,50,54	-1.51	-0.90	-1.57	-0.54	0.45	-0.30	-1.11	0.31	0.44	-0.70	-0.63	-0.90	-1.46	0.23	0.53	1.14	-0.72	**-7.25**
1161	1,3,7,9,10,16,20,23,26,33,37,42,46,48,51	-0.29	-1.41	-0.37	0.99	-0.92	-0.30	-0.16	0.14	-0.39	-0.88	1.00	1.01	-0.64	0.23	0.53	1.14	-0.72	**-1.05**
1162	1,3,7,9,10,16,20,23,26,33,37,42,46,48,52,53,54	-0.62	-1.41	-0.72	0.60	-0.38	-1.16	-0.40	0.31	-0.27	-0.88	0.68	0.05	-1.12	0.23	0.53	1.14	-0.72	**-4.14**
1163	1,3,7,9,10,16,20,23,26,33,37,42,47,50,54	-1.50	-1.15	-1.57	-0.45	0.50	-0.30	-1.11	0.31	0.44	-0.65	-0.61	-0.90	-1.46	0.23	0.53	1.14	-0.72	**-7.28**
1164	1,3,7,9,10,16,20,23,26,33,37,42,49,53,54	-1.55	-1.41	-1.59	-0.50	0.47	-1.16	-1.35	0.83	-0.15	-0.78	-0.42	0.05	-1.49	0.23	0.53	1.14	-0.72	**-7.87**
1165	1,3,7,9,10,16,20,23,27,28,31,30,32,46,47,50,54	1.02	0.66	0.08	-0.70	0.64	1.41	1.04	-0.28	1.73	0.25	0.50	-0.90	0.62	0.95	0.53	-0.77	0.98	**7.77**
1166	1,3,7,9,10,16,20,23,27,28,31,30,32,46,49,53,54	0.98	0.40	0.06	-0.75	0.61	0.55	0.80	0.24	1.15	0.12	0.67	0.05	0.58	0.95	0.53	-0.77	0.98	**7.16**
1167	1,3,7,9,10,16,20,23,27,28,31,30,32,48,51	0.48	-0.12	0.81	-1.34	-1.34	1.41	1.52	-0.46	0.91	0.01	0.16	-0.90	1.09	0.95	0.53	-0.77	0.98	**3.91**
1168	1,3,7,9,10,16,20,23,27,28,31,30,32,48,52,53,54	0.15	-0.12	0.45	-1.73	-0.80	0.55	1.28	-0.28	1.03	0.01	-0.16	-1.85	0.61	0.95	0.53	-0.77	0.98	**0.83**
1169	1,3,7,9,10,16,20,23,27,28,31,33,37,40,41,44,55	-0.87	-1.15	-0.85	-0.70	0.55	-0.73	-1.35	0.14	-0.17	-0.36	-0.35	-0.90	-0.93	0.23	0.53	-0.77	-0.72	**-8.42**
1170	1,3,7,9,10,16,20,23,27,28,31,33,37,40,41,45,55	0.83	-0.12	-0.01	0.32	0.06	1.41	-0.16	0.71	1.15	0.45	0.35	-0.90	-0.06	0.23	0.53	-0.77	-0.72	**3.32**
1171	1,3,7,9,10,16,20,23,27,28,31,33,37,40,43,47,46,48,51	-0.12	-0.12	-0.37	1.10	-0.67	0.55	-0.16	0.14	-0.75	-0.48	0.78	1.01	-0.60	0.23	0.53	-0.77	-0.72	**-0.42**
1172	1,3,7,9,10,16,20,23,27,28,31,33,37,40,43,47,46,48,52,53,54	-0.45	-0.12	-0.73	0.71	-0.13	-0.30	-0.40	0.31	-0.62	-0.48	0.46	0.05	-1.08	0.23	0.53	-0.77	-0.72	**-3.51**
1173	1,3,7,9,10,16,20,23,27,28,31,33,37,40,43,47,49,53,54	-1.38	0.14	-1.59	-0.39	0.72	-0.30	-1.35	0.83	-0.50	-0.37	-0.65	0.05	-1.45	0.23	0.53	-0.77	-0.72	**-6.97**
1174	1,3,7,9,10,16,20,23,27,28,31,33,37,40,43,50,54	-1.48	-0.38	-1.61	-0.51	0.66	-0.30	-1.11	0.31	0.08	-0.33	-0.89	-0.90	-1.50	0.23	0.53	-0.77	-0.72	**-8.69**
1175	1,3,7,9,10,16,20,23,27,28,31,33,37,42,46,48,51	-0.26	-0.90	-0.41	1.02	-0.71	-0.30	-0.16	0.14	-0.75	-0.51	0.74	1.01	-0.67	0.23	0.53	-0.77	-0.72	**-2.49**
1176	1,3,7,9,10,16,20,23,27,28,31,33,37,42,46,48,52,53,54	-0.58	-0.90	-0.76	0.63	-0.17	-1.16	-0.40	0.31	-0.62	-0.51	0.42	0.05	-1.16	0.23	0.53	-0.77	-0.72	**-5.58**
1177	1,3,7,9,10,16,20,23,27,28,31,33,37,42,47,50,54	-1.47	-0.64	-1.61	-0.42	0.71	-0.30	-1.11	0.31	0.08	-0.28	-0.86	-0.90	-1.49	0.23	0.53	-0.77	-0.72	**-8.72**
1178	1,3,7,9,10,16,20,23,27,28,31,33,37,42,49,53,54	-1.51	-0.90	-1.63	-0.47	0.68	-1.16	-1.35	0.83	-0.50	-0.41	-0.68	0.05	-1.53	0.23	0.53	-0.77	-0.72	**-9.31**
1179	1,3,7,9,10,16,20,23,27,28,34,35,37,40,41,44,55	-0.90	-1.15	-0.84	-0.68	0.91	-0.73	-1.59	0.14	0.13	-0.40	-0.38	-0.90	-0.98	0.23	0.53	-0.77	-0.72	**-8.11**
1180	1,3,7,9,10,16,20,23,27,28,34,35,37,40,41,45,55	0.80	-0.12	0.00	0.34	0.42	1.41	-0.40	0.71	1.45	0.41	0.33	-0.90	-0.10	0.23	0.53	-0.77	-0.72	**3.63**
1181	1,3,7,9,10,16,20,23,27,28,34,35,37,40,43,47,46,48,51	-0.15	-0.12	-0.37	1.12	-0.31	0.55	-0.40	0.14	-0.44	-0.52	0.75	1.01	-0.64	0.23	0.53	-0.77	-0.72	**-0.11**
1182	1,3,7,9,10,16,20,23,27,28,34,35,37,40,43,47,46,48,52,53,54	-0.48	-0.12	-0.72	0.73	0.23	-0.30	-0.64	0.31	-0.32	-0.52	0.43	0.05	-1.13	0.23	0.53	-0.77	-0.72	**-3.20**
1183	1,3,7,9,10,16,20,23,27,28,34,35,37,40,43,47,49,53,54	-1.41	0.14	-1.59	-0.37	1.08	-0.30	-1.59	0.83	-0.20	-0.42	-0.67	0.05	-1.50	0.23	0.53	-0.77	-0.72	**-6.66**
1184	1,3,7,9,10,16,20,23,27,28,34,35,37,40,43,50,54	-1.51	-0.38	-1.61	-0.49	1.01	-0.30	-1.35	0.31	0.38	-0.37	-0.91	-0.90	-1.54	0.23	0.53	-0.77	-0.72	**-8.38**
1185	1,3,7,9,10,16,20,23,27,28,34,35,37,42,46,48,51	-0.29	-0.90	-0.40	1.04	-0.35	-0.30	-0.40	0.14	-0.44	-0.55	0.72	1.01	-0.71	0.23	0.53	-0.77	-0.72	**-2.19**
1186	1,3,7,9,10,16,20,23,27,28,34,35,37,42,46,48,52,53,54	-0.61	-0.90	-0.76	0.65	0.18	-1.16	-0.64	0.31	-0.32	-0.55	0.40	0.05	-1.20	0.23	0.53	-0.77	-0.72	**-5.27**
1187	1,3,7,9,10,16,20,23,27,28,34,35,37,42,47,50,54	-1.50	-0.64	-1.61	-0.40	1.06	-0.30	-1.35	0.31	0.38	-0.32	-0.89	-0.90	-1.54	0.23	0.53	-0.77	-0.72	**-8.41**
1188	1,3,7,9,10,16,20,23,27,28,34,35,37,42,49,53,54	-1.54	-0.90	-1.63	-0.45	1.04	-1.16	-1.59	0.83	-0.20	-0.45	-0.71	0.05	-1.57	0.23	0.53	-0.77	-0.72	**-9.00**
1189	1,3,7,9,10,16,20,23,27,28,34,36,39,41,40,42,46,48,51	1.05	-0.12	0.73	1.29	-0.97	-0.30	0.32	0.28	-0.47	1.42	-0.35	1.01	0.33	0.23	0.53	-0.77	-0.72	**3.47**
1190	1,3,7,9,10,16,20,23,27,28,34,36,39,41,40,42,46,48,52,53,54	0.72	-0.12	0.37	0.91	-0.43	-1.16	0.08	0.46	-0.35	1.42	-0.67	0.05	-0.16	0.23	0.53	-0.77	-0.72	**0.38**
1191	1,3,7,9,10,16,20,23,27,28,34,36,39,41,40,42,47,50,54	-0.16	0.14	-0.48	-0.14	0.45	-0.30	-0.64	0.46	0.35	1.65	-1.96	-0.90	-0.49	0.23	0.53	-0.77	-0.72	**-2.75**
1192	1,3,7,9,10,16,20,23,27,28,34,36,39,41,40,42,49,53,54	-0.21	-0.12	-0.50	-0.19	0.42	-1.16	-0.87	0.98	-0.23	1.52	-1.77	0.05	-0.53	0.23	0.53	-0.77	-0.72	**-3.34**
1193	1,3,7,9,10,16,20,23,27,28,34,36,39,41,43,47,46,48,51	1.05	0.14	0.73	1.37	-0.93	-0.30	0.32	0.28	-0.47	1.45	-0.35	1.01	0.33	0.23	0.53	-0.77	-0.72	**3.90**
1194	1,3,7,9,10,16,20,23,27,28,34,36,39,41,43,47,46,48,52,53,54	0.72	0.14	0.37	0.99	-0.39	-1.16	0.08	0.46	-0.35	1.45	-0.66	0.05	-0.15	0.23	0.53	-0.77	-0.72	**0.81**
1195	1,3,7,9,10,16,20,23,27,28,34,36,39,41,43,47,49,53,54	-0.20	0.40	-0.50	-0.11	0.46	-1.16	-0.87	0.98	-0.23	1.56	-1.77	0.05	-0.52	0.23	0.53	-0.77	-0.72	**-2.65**
1196	1,3,7,9,10,16,20,23,27,28,34,36,39,41,43,50,54	-0.30	-0.12	-0.52	-0.23	0.40	-1.16	-0.64	0.46	0.35	1.60	-2.01	-0.90	-0.57	0.23	0.53	-0.77	-0.72	**-4.37**
1197	1,3,7,9,10,16,20,23,27,28,34,36,39,44,55	-1.24	-1.41	-0.17	-0.42	0.29	-1.59	-1.83	0.28	0.10	1.58	-2.16	-0.90	-0.63	0.23	0.53	-0.77	-0.72	**-8.85**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
1198	1,3,7,9,10,16,20,23,27,28,34,36,39,45,55	0.46	-0.38	0.67	0.60	-0.20	0.55	-0.64	0.86	1.42	2.39	-1.46	-0.90	0.25	0.23	0.53	-0.77	-0.72	**2.89**
1199	1,3,7,9,10,16,20,23,27,28,34,38,40,42,46,48,51	-0.25	-0.90	-0.40	1.01	0.36	0.13	-0.40	0.50	-0.12	-0.54	0.68	1.01	-0.71	0.23	0.53	-0.77	1.40	**1.77**
1200	1,3,7,9,10,16,20,23,27,28,34,38,40,42,46,48,52,53,54	-0.57	-0.90	-0.76	0.62	0.90	-0.73	-0.64	0.68	0.00	-0.54	0.36	0.05	-1.19	0.23	0.53	-0.77	1.40	**-1.32**
1201	1,3,7,9,10,16,20,23,27,28,34,38,40,42,47,50,54	-1.46	-0.64	-1.61	-0.43	1.78	0.13	-1.35	0.68	0.71	-0.31	-0.93	-0.90	-1.53	0.23	0.53	-0.77	1.40	**-4.46**
1202	1,3,7,9,10,16,20,23,27,28,34,38,40,42,49,53,54	-1.50	-0.90	-1.63	-0.48	1.75	-0.73	-1.59	1.20	0.13	-0.44	-0.75	0.05	-1.56	0.23	0.53	-0.77	1.40	**-5.04**
1203	1,3,7,9,10,16,20,23,27,28,34,38,41,44,55	-0.99	-1.67	-0.88	-0.71	1.63	-1.16	-1.59	0.50	0.45	-0.39	-0.46	-0.90	-1.04	0.23	0.53	-0.77	1.40	**-5.81**
1204	1,3,7,9,10,16,20,23,27,28,34,38,41,45,55	0.71	-0.64	-0.04	0.31	1.13	0.98	-0.40	1.08	1.78	0.42	0.25	-0.90	-0.16	0.23	0.53	-0.77	1.40	**5.93**
1205	1,3,7,9,10,16,20,23,27,28,34,38,43,47,46,48,51	-0.24	-1.15	-0.40	1.09	0.41	0.13	-0.40	0.50	-0.12	-0.51	0.68	1.01	-0.70	0.23	0.53	-0.77	1.40	**1.68**
1206	1,3,7,9,10,16,20,23,27,28,34,38,43,47,46,48,52,53,54	-0.57	-1.15	-0.76	0.70	0.95	-0.73	-0.64	0.68	0.00	-0.51	0.36	0.05	-1.19	0.23	0.53	-0.77	1.40	**-1.41**
1207	1,3,7,9,10,16,20,23,27,28,34,38,43,47,49,53,54	-1.50	-0.90	-1.63	-0.40	1.80	-0.73	-1.59	1.20	0.13	-0.41	-0.74	0.05	-1.56	0.23	0.53	-0.77	1.40	**-4.87**
1208	1,3,7,9,10,16,20,23,27,28,34,38,43,50,54	-1.60	-1.41	-1.64	-0.52	1.73	-0.73	-1.35	0.68	0.71	-0.36	-0.98	-0.90	-1.60	0.23	0.53	-0.77	1.40	**-6.59**
1209	1,3,7,9,8,14,30,31,34,35,37,40,41,44,55	0.51	-2.19	1.27	-0.53	0.73	-0.30	0.80	-0.51	-3.02	0.14	0.91	0.05	0.66	-0.89	0.53	-0.77	-0.72	**-3.34**
1210	1,3,7,9,8,14,30,31,34,35,37,40,41,45,55	2.21	-1.15	2.11	0.49	0.24	1.84	1.99	0.06	-1.69	0.95	1.61	0.05	1.54	-0.89	0.53	-0.77	-0.72	**8.40**
1211	1,3,7,9,8,14,30,31,34,35,37,40,43,47,46,48,51	1.26	-1.15	1.75	1.27	-0.49	0.98	1.99	-0.51	-3.59	0.01	2.04	1.96	1.00	-0.89	0.53	-0.77	-0.72	**4.66**
1212	1,3,7,9,8,14,30,31,34,35,37,40,43,47,46,48,52,53,54	0.93	-1.15	1.39	0.88	0.05	0.13	1.75	-0.34	-3.47	0.01	1.72	1.01	0.51	-0.89	0.53	-0.77	-0.72	**1.57**
1213	1,3,7,9,8,14,30,31,34,35,37,40,43,47,49,53,54	0.00	-0.90	0.52	-0.22	0.90	0.13	0.80	0.18	-3.34	0.12	0.61	1.01	0.14	-0.89	0.53	-0.77	-0.72	**-1.89**
1214	1,3,7,9,8,14,30,31,34,35,37,40,43,50,54	-0.10	-1.41	0.50	-0.34	0.84	0.13	1.04	-0.34	-2.76	0.16	0.37	0.05	0.10	-0.89	0.53	-0.77	-0.72	**-3.61**
1215	1,3,7,9,8,14,30,31,34,35,37,42,46,48,51	1.12	-1.93	1.71	1.19	-0.53	0.13	1.99	-0.51	-3.59	-0.02	2.00	1.96	0.92	-0.89	0.53	-0.77	-0.72	**2.59**
1216	1,3,7,9,8,14,30,31,34,35,37,42,46,48,52,53,54	0.80	-1.93	1.35	0.80	0.01	-0.73	1.75	-0.34	-3.47	-0.02	1.68	1.01	0.44	-0.89	0.53	-0.77	-0.72	**-0.50**
1217	1,3,7,9,8,14,30,31,34,35,37,42,47,50,54	-0.09	-1.67	0.50	-0.25	0.89	0.13	1.04	-0.34	-2.76	0.21	0.39	0.05	0.10	-0.89	0.53	-0.77	-0.72	**-3.64**
1218	1,3,7,9,8,14,30,31,34,35,37,42,49,53,54	-0.13	-1.93	0.49	-0.30	0.86	-0.73	0.80	0.18	-3.34	0.09	0.58	1.01	0.07	-0.89	0.53	-0.77	-0.72	**-4.23**
1219	1,3,7,9,8,14,30,31,34,36,39,41,40,42,46,48,51	2.46	-1.15	2.84	1.44	-1.15	0.13	2.71	-0.37	-3.62	1.95	0.93	1.96	1.97	-0.89	0.53	-0.77	-0.72	**8.24**
1220	1,3,7,9,8,14,30,31,34,36,39,41,40,42,46,48,52,53,54	2.13	-1.15	2.48	1.06	-0.61	-0.73	2.47	-0.19	-3.50	1.95	0.61	1.01	1.48	-0.89	0.53	-0.77	-0.72	**5.16**
1221	1,3,7,9,8,14,30,31,34,36,39,41,40,42,47,50,54	1.25	-0.90	1.63	0.01	0.27	0.13	1.75	-0.19	-2.79	2.19	-0.67	0.05	1.15	-0.89	0.53	-0.77	-0.72	**2.02**
1222	1,3,7,9,8,14,30,31,34,36,39,41,40,42,49,53,54	1.20	-1.15	1.61	-0.04	0.24	-0.73	1.52	0.33	-3.37	2.06	-0.49	1.01	1.11	-0.89	0.53	-0.77	-0.72	**1.43**
1223	1,3,7,9,8,14,30,31,34,36,39,41,43,47,46,48,51	2.46	-0.90	2.84	1.52	-1.10	0.13	2.71	-0.37	-3.62	1.99	0.94	1.96	1.97	-0.89	0.53	-0.77	-0.72	**8.67**
1224	1,3,7,9,8,14,30,31,34,36,39,41,43,47,46,48,52,53,54	2.13	-0.90	2.48	1.14	-0.57	-0.73	2.47	-0.19	-3.50	1.99	0.62	1.01	1.49	-0.89	0.53	-0.77	-0.72	**5.59**
1225	1,3,7,9,8,14,30,31,34,36,39,41,43,47,49,53,54	1.20	-0.64	1.61	0.04	0.29	-0.73	1.52	0.33	-3.37	2.09	-0.48	1.01	1.12	-0.89	0.53	-0.77	-0.72	**2.12**
1226	1,3,7,9,8,14,30,31,34,36,39,41,43,50,54	1.10	-1.15	1.60	-0.08	0.22	-0.73	1.75	-0.19	-2.79	2.14	-0.73	0.05	1.07	-0.89	0.53	-0.77	-0.72	**0.40**
1227	1,3,7,9,8,14,30,31,34,36,39,44,55	0.17	-2.45	1.94	-0.27	0.11	-1.16	0.56	-0.37	-3.05	2.11	-0.88	0.05	1.01	-0.89	0.53	-0.77	-0.72	**-4.07**
1228	1,3,7,9,8,14,30,31,34,36,39,45,55	1.87	-1.41	2.78	0.75	-0.38	0.98	1.75	0.21	-1.72	2.92	-0.17	0.05	1.88	-0.89	0.53	-0.77	-0.72	**7.66**
1229	1,3,7,9,8,14,30,31,34,38,40,42,46,48,51	1.16	-1.93	1.71	1.16	0.19	0.55	1.99	-0.15	-3.27	-0.01	1.96	1.96	0.93	-0.89	0.53	-0.77	1.40	**6.54**
1230	1,3,7,9,8,14,30,31,34,38,40,42,46,48,52,53,54	0.84	-1.93	1.35	0.77	0.73	-0.30	1.75	0.03	-3.14	-0.01	1.64	1.01	0.45	-0.89	0.53	-0.77	1.40	**3.45**
1231	1,3,7,9,8,14,30,31,34,38,40,42,47,50,54	-0.05	-1.67	0.50	-0.28	1.61	0.55	1.04	0.03	-2.44	0.22	0.36	0.05	0.11	-0.89	0.53	-0.77	1.40	**0.31**
1232	1,3,7,9,8,14,30,31,34,38,40,42,49,53,54	-0.09	-1.93	0.48	-0.33	1.58	-0.30	0.80	0.55	-3.02	0.10	0.54	1.01	0.08	-0.89	0.53	-0.77	1.40	**-0.27**
1233	1,3,7,9,8,14,30,31,34,38,41,44,55	0.42	-2.71	1.23	-0.56	1.45	-0.73	0.80	-0.15	-2.69	0.15	0.83	0.05	0.60	-0.89	0.53	-0.77	1.40	**-1.03**
1234	1,3,7,9,8,14,30,31,34,38,41,45,55	2.12	-1.67	2.07	0.46	0.96	1.41	1.99	0.43	-1.37	0.96	1.54	0.05	1.48	-0.89	0.53	-0.77	1.40	**10.70**
1235	1,3,7,9,8,14,30,31,34,38,43,47,46,48,51	1.16	-2.19	1.71	1.24	0.23	0.55	1.99	-0.15	-3.27	0.03	1.97	1.96	0.94	-0.89	0.53	-0.77	1.40	**6.45**
1236	1,3,7,9,8,14,30,31,34,38,43,47,46,48,52,53,54	0.84	-2.19	1.35	0.85	0.77	-0.30	1.75	0.03	-3.14	0.03	1.65	1.01	0.45	-0.89	0.53	-0.77	1.40	**3.36**
1237	1,3,7,9,8,14,30,31,34,38,43,47,49,53,54	-0.09	-1.93	0.49	-0.25	1.62	-0.30	0.80	0.55	-3.02	0.13	0.54	1.01	0.08	-0.89	0.53	-0.77	1.40	**-0.10**
1238	1,3,7,9,8,14,30,31,34,38,43,50,54	-0.19	-2.45	0.47	-0.37	1.56	-0.30	1.04	0.03	-2.44	0.17	0.30	0.05	0.04	-0.89	0.53	-0.77	1.40	**-1.82**
1239	1,3,7,9,8,14,30,33,37,40,41,44,55	0.45	-2.71	1.24	-0.55	0.37	-0.30	1.04	-0.51	-3.32	0.15	0.85	0.05	0.64	-0.89	0.53	-0.77	-0.72	**-4.46**
1240	1,3,7,9,8,14,30,33,37,40,41,45,55	2.15	-1.67	2.08	0.47	-0.12	1.84	2.23	0.06	-1.99	0.96	1.56	0.05	1.52	-0.89	0.53	-0.77	-0.72	**7.28**
1241	1,3,7,9,8,14,30,33,37,40,43,47,46,48,51	1.19	-1.67	1.71	1.25	-0.84	0.98	2.23	-0.51	-3.89	0.03	1.98	1.96	0.98	-0.89	0.53	-0.77	-0.72	**3.54**
1242	1,3,7,9,8,14,30,33,37,40,43,47,46,48,52,53,54	0.86	-1.67	1.36	0.86	-0.31	0.13	1.99	-0.34	-3.77	0.03	1.66	1.01	0.49	-0.89	0.53	-0.77	-0.72	**0.46**
1243	1,3,7,9,8,14,30,33,37,40,43,47,49,53,54	-0.06	-1.41	0.49	-0.24	0.55	0.13	1.04	0.18	-3.64	0.14	0.56	1.01	0.12	-0.89	0.53	-0.77	-0.72	**-3.01**
1244	1,3,7,9,8,14,30,33,37,40,43,50,54	-0.16	-1.93	0.47	-0.36	0.48	0.13	1.28	-0.34	-3.06	0.18	0.32	0.05	0.08	-0.89	0.53	-0.77	-0.72	**-4.73**
1245	1,3,7,9,8,14,30,33,37,42,46,48,51	1.06	-2.45	1.68	1.17	-0.89	0.13	2.23	-0.51	-3.89	0.00	1.95	1.96	0.90	-0.89	0.53	-0.77	-0.72	**1.47**
1246	1,3,7,9,8,14,30,33,37,42,46,48,52,53,54	0.73	-2.45	1.32	0.78	-0.35	-0.73	1.99	-0.34	-3.77	0.00	1.63	1.01	0.42	-0.89	0.53	-0.77	-0.72	**-1.62**
1247	1,3,7,9,8,14,30,33,37,42,47,50,54	-0.15	-2.19	0.47	-0.27	0.53	0.13	1.28	-0.34	-3.06	0.23	0.34	0.05	0.08	-0.89	0.53	-0.77	-0.72	**-4.76**
1248	1,3,7,9,8,14,30,33,37,42,49,53,54	-0.20	-2.45	0.45	-0.32	0.50	-0.73	1.04	0.18	-3.64	0.10	0.52	1.01	0.05	-0.89	0.53	-0.77	-0.72	**-5.34**
1249	1,3,7,9,8,14,32,46,47,50,54	1.47	-1.41	1.93	-0.55	0.47	0.98	2.95	-0.93	-1.41	0.76	0.79	0.05	1.60	-0.37	0.53	-0.77	0.98	**7.06**
1250	1,3,7,9,8,14,32,46,49,53,54	1.42	-1.67	1.91	-0.60	0.44	0.13	2.71	-0.41	-1.99	0.63	0.95	1.01	1.56	-0.37	0.53	-0.77	0.98	**6.46**
1251	1,3,7,9,8,14,32,48,51	0.92	-2.19	2.66	-1.19	-1.52	0.98	3.43	-1.11	-2.24	0.52	0.45	0.05	2.07	-0.37	0.53	-0.77	0.98	**3.21**
1252	1,3,7,9,8,14,32,48,52,53,54	0.60	-2.19	2.30	-1.58	-0.98	0.13	3.19	-0.93	-2.12	0.52	0.13	-0.90	1.59	-0.37	0.53	-0.77	0.98	**0.12**
1253	1,6,10,12,14,30,31,34,35,37,40,41,44,55	0.60	-2.71	0.45	0.66	1.21	0.55	0.08	-1.22	-0.92	0.47	0.48	-0.90	0.18	-0.20	1.23	-0.77	-0.72	**-1.52**
1254	1,6,10,12,14,30,31,34,35,37,40,41,45,55	2.30	-1.67	1.29	1.68	0.72	2.70	1.28	-0.64	0.40	1.28	1.19	-0.90	1.06	-0.20	1.23	-0.77	-0.72	**10.21**
1255	1,6,10,12,14,30,31,34,35,37,40,43,47,46,48,51	1.35	-1.67	0.93	2.46	-0.01	1.84	1.28	-1.22	-1.50	0.35	1.61	1.01	0.52	-0.20	1.23	-0.77	-0.72	**6.47**
1256	1,6,10,12,14,30,31,34,35,37,40,43,47,46,48,52,53,54	1.02	-1.67	0.57	2.07	0.53	0.98	1.04	-1.04	-1.37	0.35	1.29	0.05	0.03	-0.20	1.23	-0.77	-0.72	**3.39**
1257	1,6,10,12,14,30,31,34,35,37,40,43,47,49,53,54	0.09	-1.41	-0.30	0.97	1.38	0.98	0.08	-0.52	-1.25	0.45	0.19	0.05	-0.34	-0.20	1.23	-0.77	-0.72	**-0.08**
1258	1,6,10,12,14,30,31,34,35,37,40,43,50,54	-0.01	-1.93	-0.32	0.85	1.32	0.98	0.32	-1.04	-0.67	0.50	-0.05	-0.90	-0.38	-0.20	1.23	-0.77	-0.72	**-1.80**
1259	1,6,10,12,14,30,31,34,35,37,42,46,48,51	1.22	-2.45	0.89	2.38	-0.05	0.98	1.28	-1.22	-1.50	0.32	1.58	1.01	0.44	-0.20	1.23	-0.77	-0.72	**4.40**
1260	1,6,10,12,14,30,31,34,35,37,42,46,48,52,53,54	0.89	-2.45	0.53	1.99	0.49	0.13	1.04	-1.04	-1.37	0.32	1.26	0.05	-0.04	-0.20	1.23	-0.77	-0.72	**1.32**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
1261	1,6,10,12,14,30,31,34,35,37,42,47,50,54	0.01	-2.19	-0.31	0.94	1.37	0.98	0.32	-1.04	-0.67	0.55	-0.03	-0.90	-0.38	-0.20	1.23	-0.77	-0.72	**-1.82**
1262	1,6,10,12,14,30,31,34,35,37,42,49,53,54	-0.04	-2.45	-0.33	0.89	1.34	0.13	0.08	-0.52	-1.25	0.42	0.15	0.05	-0.41	-0.20	1.23	-0.77	-0.72	**-2.41**
1263	1,6,10,12,14,30,31,34,36,39,41,40,42,46,48,51	2.55	-1.67	2.02	2.63	-0.67	0.98	1.99	-1.07	-1.53	2.29	0.51	1.01	1.49	-0.20	1.23	-0.77	-0.72	**10.06**
1264	1,6,10,12,14,30,31,34,36,39,41,40,42,46,48,52,53,54	2.22	-1.67	1.66	2.25	-0.13	0.13	1.75	-0.90	-1.40	2.29	0.19	0.05	1.00	-0.20	1.23	-0.77	-0.72	**6.97**
1265	1,6,10,12,14,30,31,34,36,39,41,40,42,47,50,54	1.34	-1.41	0.81	1.20	0.75	0.98	1.04	-0.90	-0.70	2.52	-1.10	-0.90	0.67	-0.20	1.23	-0.77	-0.72	**3.83**
1266	1,6,10,12,14,30,31,34,36,39,41,40,42,49,53,54	1.29	-1.67	0.79	1.15	0.72	0.13	0.80	-0.38	-1.28	2.39	-0.91	0.05	0.63	-0.20	1.23	-0.77	-0.72	**3.25**
1267	1,6,10,12,14,30,31,34,36,39,41,43,47,46,48,51	2.55	-1.41	2.02	2.71	-0.62	0.98	1.99	-1.07	-1.53	2.32	0.51	1.01	1.49	-0.20	1.23	-0.77	-0.72	**10.49**
1268	1,6,10,12,14,30,31,34,36,39,41,43,47,46,48,52,53,54	2.22	-1.41	1.66	2.32	-0.09	0.13	1.75	-0.90	-1.40	2.32	0.20	0.05	1.01	-0.20	1.23	-0.77	-0.72	**7.40**
1269	1,6,10,12,14,30,31,34,36,39,41,43,47,49,53,54	1.30	-1.15	0.80	1.22	0.77	0.13	0.80	-0.38	-1.28	2.43	-0.91	0.05	0.63	-0.20	1.23	-0.77	-0.72	**3.94**
1270	1,6,10,12,14,30,31,34,36,39,41,43,50,54	1.20	-1.67	0.78	1.11	0.70	0.13	1.04	-0.90	-0.70	2.47	-1.15	-0.90	0.59	-0.20	1.23	-0.77	-0.72	**2.22**
1271	1,6,10,12,14,30,31,34,36,39,44,55	0.26	-2.97	1.13	0.91	0.59	-0.30	-0.16	-1.07	-0.95	2.45	-1.30	-0.90	0.53	-0.20	1.23	-0.77	-0.72	**-2.26**
1272	1,6,10,12,14,30,31,34,36,39,45,55	1.96	-1.93	1.97	1.93	0.10	1.84	1.04	-0.50	0.37	3.26	-0.60	-0.90	1.40	-0.20	1.23	-0.77	-0.72	**9.48**
1273	1,6,10,12,14,30,31,34,38,40,42,46,48,51	1.26	-2.45	0.89	2.35	0.67	1.41	1.28	-0.85	-1.17	0.33	1.54	1.01	0.45	-0.20	1.23	-0.77	1.40	**8.36**
1274	1,6,10,12,14,30,31,34,38,40,42,46,48,52,53,54	0.93	-2.45	0.53	1.96	1.21	0.55	1.04	-0.67	-1.05	0.33	1.22	0.05	-0.03	-0.20	1.23	-0.77	1.40	**5.27**
1275	1,6,10,12,14,30,31,34,38,40,42,47,50,54	0.04	-2.19	-0.31	0.91	2.09	1.41	0.32	-0.67	-0.34	0.56	-0.07	-0.90	-0.37	-0.20	1.23	-0.77	1.40	**2.13**
1276	1,6,10,12,14,30,31,34,38,40,42,49,53,54	0.00	-2.45	-0.33	0.86	2.06	0.55	0.08	-0.15	-0.92	0.43	0.11	0.05	-0.41	-0.20	1.23	-0.77	1.40	**1.54**
1277	1,6,10,12,14,30,31,34,38,41,44,55	0.51	-3.23	0.42	0.63	1.93	0.13	0.08	-0.85	-0.60	0.48	0.41	-0.90	0.12	-0.20	1.23	-0.77	1.40	**0.78**
1278	1,6,10,12,14,30,31,34,38,41,45,55	2.21	-2.19	1.26	1.65	1.44	2.27	1.28	-0.27	0.73	1.29	1.11	-0.90	1.00	-0.20	1.23	-0.77	1.40	**12.52**
1279	1,6,10,12,14,30,31,34,38,43,47,46,48,51	1.26	-2.71	0.89	2.43	0.71	1.41	1.28	-0.85	-1.17	0.36	1.54	1.01	0.46	-0.20	1.23	-0.77	1.40	**8.26**
1280	1,6,10,12,14,30,31,34,38,43,47,46,48,52,53,54	0.93	-2.71	0.53	2.04	1.25	0.55	1.04	-0.67	-1.05	0.36	1.22	0.05	-0.03	-0.20	1.23	-0.77	1.40	**5.18**
1281	1,6,10,12,14,30,31,34,38,43,47,49,53,54	0.00	-2.45	-0.33	0.94	2.10	0.55	0.08	-0.15	-0.92	0.47	0.12	0.05	-0.40	-0.20	1.23	-0.77	1.40	**1.71**
1282	1,6,10,12,14,30,31,34,38,43,50,54	-0.10	-2.97	-0.35	0.82	2.04	0.55	0.32	-0.67	-0.34	0.51	-0.12	-0.90	-0.44	-0.20	1.23	-0.77	1.40	**-0.01**
1283	1,6,10,12,14,30,33,37,40,41,44,55	0.54	-3.23	0.42	0.64	0.85	0.55	0.32	-1.22	-1.22	0.49	0.43	-0.90	0.16	-0.20	1.23	-0.77	-0.72	**-2.64**
1284	1,6,10,12,14,30,33,37,40,41,45,55	2.24	-2.19	1.26	1.66	0.36	2.70	1.52	-0.64	0.10	1.30	1.13	-0.90	1.04	-0.20	1.23	-0.77	-0.72	**9.10**
1285	1,6,10,12,14,30,33,37,40,43,47,46,48,51	1.28	-2.19	0.90	2.43	-0.36	1.84	1.52	-1.22	-1.80	0.37	1.56	1.01	0.50	-0.20	1.23	-0.77	-0.72	**5.36**
1286	1,6,10,12,14,30,33,37,40,43,47,46,48,52,53,54	0.96	-2.19	0.54	2.05	0.17	0.98	1.28	-1.04	-1.67	0.37	1.24	0.05	0.01	-0.20	1.23	-0.77	-0.72	**2.27**
1287	1,6,10,12,14,30,33,37,40,43,47,49,53,54	0.03	-1.93	-0.33	0.95	1.03	0.98	0.32	-0.52	-1.55	0.47	0.14	0.05	-0.36	-0.20	1.23	-0.77	-0.72	**-1.19**
1288	1,6,10,12,14,30,33,37,40,43,50,54	-0.07	-2.45	-0.35	0.83	0.96	0.98	0.56	-1.04	-0.97	0.51	-0.11	-0.90	-0.40	-0.20	1.23	-0.77	-0.72	**-2.91**
1289	1,6,10,12,14,30,33,37,42,46,48,51	1.15	-2.97	0.86	2.35	-0.41	0.98	1.52	-1.22	-1.80	0.33	1.52	1.01	0.42	-0.20	1.23	-0.77	-0.72	**3.29**
1290	1,6,10,12,14,30,33,37,42,46,48,52,53,54	0.82	-2.97	0.50	1.97	0.13	0.13	1.28	-1.04	-1.67	0.33	1.20	0.05	-0.06	-0.20	1.23	-0.77	-0.72	**0.20**
1291	1,6,10,12,14,30,33,37,42,47,50,54	-0.06	-2.71	-0.35	0.92	1.01	0.98	0.56	-1.04	-0.97	0.57	-0.08	-0.90	-0.40	-0.20	1.23	-0.77	-0.72	**-2.94**
1292	1,6,10,12,14,30,33,37,42,49,53,54	-0.10	-2.97	-0.36	0.87	0.98	0.13	0.32	-0.52	-1.55	0.44	0.10	0.05	-0.43	-0.20	1.23	-0.77	-0.72	**-3.53**
1293	1,6,10,12,14,32,46,47,50,54	1.56	-1.93	1.11	0.64	0.95	1.84	2.23	-1.63	0.68	1.09	0.37	-0.90	1.12	0.33	1.23	-0.77	0.98	**8.88**
1294	1,6,10,12,14,32,46,49,53,54	1.52	-2.19	1.09	0.59	0.92	0.98	1.99	-1.11	0.10	0.96	0.53	0.05	1.08	0.33	1.23	-0.77	0.98	**8.27**
1295	1,6,10,12,14,32,48,51	1.01	-2.71	1.84	0.00	-1.04	1.84	2.71	-1.81	-0.15	0.86	0.02	-0.90	1.59	0.33	1.23	-0.77	0.98	**5.03**
1296	1,6,10,12,14,32,48,52,53,54	0.69	-2.71	1.48	-0.39	-0.50	0.98	2.47	-1.63	-0.02	0.86	-0.30	-1.85	1.11	0.33	1.23	-0.77	0.98	**1.94**
1297	1,6,10,13,17,18,20,23,26,30,32,46,47,50,54	1.01	0.66	0.11	-0.67	0.15	1.41	1.04	-1.48	2.00	-0.11	0.86	-0.90	0.64	0.19	1.23	1.14	0.98	**8.26**
1298	1,6,10,13,17,18,20,23,26,30,32,46,49,53,54	0.97	0.40	0.09	-0.73	0.12	0.55	0.80	-0.96	1.42	-0.24	1.02	0.05	0.61	0.19	1.23	1.14	0.98	**7.65**
1299	1,6,10,13,17,18,20,23,26,30,32,48,51	0.47	-0.12	0.84	-1.32	-1.83	1.41	1.52	-1.66	1.17	-0.34	0.51	-0.90	1.12	0.19	1.23	1.14	0.98	**4.41**
1300	1,6,10,13,17,18,20,23,26,30,32,48,52,53,54	0.14	-0.12	0.49	-1.71	-1.30	0.55	1.28	-1.48	1.30	-0.34	0.20	-1.85	0.63	0.19	1.23	1.14	0.98	**1.32**
1301	1,6,10,13,17,18,20,23,26,31,34,35,37,40,41,44,55	-0.81	-0.64	-0.78	-0.66	0.41	-0.73	-1.59	-1.06	0.40	-0.73	0.06	-0.90	-0.89	-0.53	1.23	1.14	-0.72	**-6.81**
1302	1,6,10,13,17,18,20,23,26,31,34,35,37,40,41,45,55	0.89	0.40	0.06	0.36	-0.08	1.41	-0.40	-0.49	1.72	0.08	0.76	-0.90	-0.01	-0.53	1.23	1.14	-0.72	**4.93**
1303	1,6,10,13,17,18,20,23,26,31,34,35,37,40,43,47,46,48,51	-0.07	0.40	-0.30	1.14	-0.80	0.55	-0.40	-1.06	-0.18	-0.85	1.19	1.01	-0.55	-0.53	1.23	1.14	-0.72	**1.19**
1304	1,6,10,13,17,18,20,23,26,31,34,35,37,40,43,47,46,48,52,53,54	-0.39	0.40	-0.66	0.75	-0.27	-0.30	-0.64	-0.89	-0.05	-0.85	0.87	0.05	-1.04	-0.53	1.23	1.14	-0.72	**-1.90**
1305	1,6,10,13,17,18,20,23,26,31,34,35,37,40,43,47,49,53,54	-1.32	0.66	-1.53	-0.35	0.59	-0.30	-1.59	-0.37	0.07	-0.75	-0.23	0.05	-1.41	-0.53	1.23	1.14	-0.72	**-5.36**
1306	1,6,10,13,17,18,20,23,26,31,34,35,37,40,43,50,54	-1.42	0.14	-1.55	-0.47	0.52	-0.30	-1.35	-0.89	0.65	-0.70	-0.48	-0.90	-1.45	-0.53	1.23	1.14	-0.72	**-7.08**
1307	1,6,10,13,17,18,20,23,26,31,34,35,37,42,46,48,51	-0.20	-0.38	-0.34	1.06	-0.85	-0.30	-0.40	-1.06	-0.18	-0.88	1.15	1.01	-0.63	-0.53	1.23	1.14	-0.72	**-0.88**
1308	1,6,10,13,17,18,20,23,26,31,34,35,37,42,46,48,52,53,54	-0.53	-0.38	-0.70	0.67	-0.31	-1.16	-0.64	-0.89	-0.05	-0.88	0.83	0.05	-1.11	-0.53	1.23	1.14	-0.72	**-3.97**
1309	1,6,10,13,17,18,20,23,26,31,34,35,37,42,47,50,54	-1.41	-0.12	-1.55	-0.37	0.57	-0.30	-1.35	-0.89	0.65	-0.65	-0.45	-0.90	-1.45	-0.53	1.23	1.14	-0.72	**-7.11**
1310	1,6,10,13,17,18,20,23,26,31,34,35,37,42,49,53,54	-1.45	-0.38	-1.57	-0.43	0.54	-1.16	-1.59	-0.37	0.07	-0.78	-0.27	0.05	-1.48	-0.53	1.23	1.14	-0.72	**-7.70**
1311	1,6,10,13,17,18,20,23,26,31,34,36,39,41,40,42,46,48,51	1.13	0.40	0.79	1.32	-1.46	-0.30	0.32	-0.92	-0.21	1.09	0.09	1.01	0.41	-0.53	1.23	1.14	-0.72	**4.77**
1312	1,6,10,13,17,18,20,23,26,31,34,36,39,41,40,42,46,48,52,53,54	0.81	0.40	0.43	0.93	-0.93	-1.16	0.08	-0.74	-0.08	1.09	-0.23	0.05	-0.07	-0.53	1.23	1.14	-0.72	**1.69**
1313	1,6,10,13,17,18,20,23,26,31,34,36,39,41,40,42,47,50,54	-0.08	0.66	-0.42	-0.12	-0.05	-0.30	-0.64	-0.74	0.62	1.32	-1.52	-0.90	-0.41	-0.53	1.23	1.14	-0.72	**-1.45**
1314	1,6,10,13,17,18,20,23,26,31,34,36,39,41,40,42,49,53,54	-0.12	0.40	-0.44	-0.17	-0.08	-1.16	-0.87	-0.22	0.04	1.19	-1.34	0.05	-0.44	-0.53	1.23	1.14	-0.72	**-2.04**
1315	1,6,10,13,17,18,20,23,26,31,34,36,39,41,43,47,46,48,51	1.14	0.66	0.79	1.40	-1.42	-0.30	0.32	-0.92	-0.21	1.12	0.09	1.01	0.42	-0.53	1.23	1.14	-0.72	**5.20**
1316	1,6,10,13,17,18,20,23,26,31,34,36,39,41,43,47,46,48,52,53,54	0.81	0.66	0.43	1.01	-0.88	-1.16	0.08	-0.74	-0.08	1.12	-0.23	0.05	-0.07	-0.53	1.23	1.14	-0.72	**2.12**
1317	1,6,10,13,17,18,20,23,26,31,34,36,39,41,43,47,49,53,54	-0.12	0.92	-0.44	-0.09	-0.03	-1.16	-0.87	-0.22	0.04	1.23	-1.33	0.05	-0.44	-0.53	1.23	1.14	-0.72	**-1.35**
1318	1,6,10,13,17,18,20,23,26,31,34,36,39,41,43,50,54	-0.22	0.40	-0.46	-0.21	-0.10	-1.16	-0.64	-0.74	0.62	1.27	-1.57	-0.90	-0.48	-0.53	1.23	1.14	-0.72	**-3.07**
1319	1,6,10,13,17,18,20,23,26,31,34,36,39,44,55	-1.15	-0.90	-0.11	-0.40	-0.20	-1.59	-1.83	-0.92	0.37	1.24	-1.73	-0.90	-0.54	-0.53	1.23	1.14	-0.72	**-7.54**
1320	1,6,10,13,17,18,20,23,26,31,34,36,39,45,55	0.55	0.14	0.73	0.62	-0.69	0.55	-0.64	-0.35	1.69	2.06	-1.02	-0.90	0.33	-0.53	1.23	1.14	-0.72	**4.19**
1321	1,6,10,13,17,18,20,23,26,31,34,38,40,42,46,48,51	-0.16	-0.38	-0.34	1.03	-0.13	0.13	-0.40	-0.70	0.15	-0.87	1.11	1.01	-0.62	-0.53	1.23	1.14	1.40	**3.07**
1322	1,6,10,13,17,18,20,23,26,31,34,38,40,42,46,48,52,53,54	-0.49	-0.38	-0.70	0.64	0.41	-0.73	-0.64	-0.52	0.27	-0.87	0.79	0.05	-1.10	-0.53	1.23	1.14	1.40	**-0.02**
1323	1,6,10,13,17,18,20,23,26,31,34,38,40,42,47,50,54	-1.37	-0.12	-1.55	-0.41	1.29	0.13	-1.35	-0.52	0.98	-0.64	-0.49	-0.90	-1.44	-0.53	1.23	1.14	1.40	**-3.16**

Westar Energy- JEC to East Manhattan
345/230 kV Transmission Line Project
Table F-2: Raw Scores for All Routes

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
1324	1,6,10,13,17,18,20,23,26,31,34,38,40,42,49,53,54	-1.41	-0.38	-1.57	-0.46	1.26	-0.73	-1.59	0.00	0.39	-0.77	-0.31	0.05	-1.48	-0.53	1.23	1.14	1.40	**-3.74**
1325	1,6,10,13,17,18,20,23,26,31,34,38,41,44,55	-0.90	-1.15	-0.82	-0.69	1.13	-1.16	-1.59	-0.70	0.72	-0.72	-0.02	-0.90	-0.95	-0.53	1.23	1.14	1.40	**-4.50**
1326	1,6,10,13,17,18,20,23,26,31,34,38,41,45,55	0.80	-0.12	0.02	0.33	0.64	0.98	-0.40	-0.12	2.04	0.09	0.69	-0.90	-0.08	-0.53	1.23	1.14	1.40	**7.23**
1327	1,6,10,13,17,18,20,23,26,31,34,38,43,47,46,48,51	-0.16	-0.64	-0.34	1.11	-0.09	0.13	-0.40	-0.70	0.15	-0.84	1.12	1.01	-0.62	-0.53	1.23	1.14	1.40	**2.98**
1328	1,6,10,13,17,18,20,23,26,31,34,38,43,47,46,48,52,53,54	-0.48	-0.64	-0.70	0.72	0.45	-0.73	-0.64	-0.52	0.27	-0.84	0.80	0.05	-1.10	-0.53	1.23	1.14	1.40	**-0.11**
1329	1,6,10,13,17,18,20,23,26,31,34,38,43,47,49,53,54	-1.41	-0.38	-1.56	-0.38	1.30	-0.73	-1.59	0.00	0.39	-0.74	-0.30	0.05	-1.47	-0.53	1.23	1.14	1.40	**-3.57**
1330	1,6,10,13,17,18,20,23,26,31,34,38,43,50,54	-1.51	-0.90	-1.58	-0.50	1.24	-0.73	-1.35	-0.52	0.98	-0.69	-0.55	-0.90	-1.52	-0.53	1.23	1.14	1.40	**-5.29**
1331	1,6,10,13,17,18,20,23,26,33,37,40,41,44,55	-0.88	-1.67	-0.81	-0.68	0.06	-0.73	-1.35	-1.06	0.10	-0.71	0.01	-0.90	-0.91	-0.53	1.23	1.14	-0.72	**-8.44**
1332	1,6,10,13,17,18,20,23,26,33,37,40,41,45,55	0.82	-0.64	0.03	0.34	-0.43	1.41	-0.16	-0.49	1.42	0.10	0.71	-0.90	-0.03	-0.53	1.23	1.14	-0.72	**3.29**
1333	1,6,10,13,17,18,20,23,26,33,37,40,43,47,46,48,51	-0.13	-0.64	-0.34	1.12	-1.16	0.55	-0.16	-1.06	-0.48	-0.83	1.14	1.01	-0.57	-0.53	1.23	1.14	-0.72	**-0.45**
1334	1,6,10,13,17,18,20,23,26,33,37,40,43,47,46,48,52,53,54	-0.46	-0.64	-0.69	0.73	-0.62	-0.30	-0.40	-0.89	-0.36	-0.83	0.82	0.05	-1.06	-0.53	1.23	1.14	-0.72	**-3.53**
1335	1,6,10,13,17,18,20,23,26,33,37,40,43,47,49,53,54	-1.39	-0.38	-1.56	-0.37	0.23	-0.30	-1.35	-0.37	-0.23	-0.73	-0.29	0.05	-1.43	-0.53	1.23	1.14	-0.72	**-7.00**
1336	1,6,10,13,17,18,20,23,26,33,37,40,43,50,54	-1.49	-0.90	-1.58	-0.49	0.16	-0.30	-1.11	-0.89	0.35	-0.69	-0.53	-0.90	-1.47	-0.53	1.23	1.14	-0.72	**-8.72**
1337	1,6,10,13,17,18,20,23,26,33,37,42,46,48,51	-0.26	-1.41	-0.37	1.04	-1.20	-0.30	-0.16	-1.06	-0.48	-0.87	1.10	1.01	-0.65	-0.53	1.23	1.14	-0.72	**-2.52**
1338	1,6,10,13,17,18,20,23,26,33,37,42,46,48,52,53,54	-0.59	-1.41	-0.73	0.65	-0.67	-1.16	-0.40	-0.89	-0.36	-0.87	0.78	0.05	-1.13	-0.53	1.23	1.14	-0.72	**-5.60**
1339	1,6,10,13,17,18,20,23,26,33,37,42,47,50,54	-1.48	-1.15	-1.58	-0.40	0.21	-0.30	-1.11	-0.89	0.35	-0.64	-0.51	-0.90	-1.47	-0.53	1.23	1.14	-0.72	**-8.74**
1340	1,6,10,13,17,18,20,23,26,33,37,42,49,53,54	-1.52	-1.41	-1.60	-0.45	0.18	-1.16	-1.35	-0.37	-0.23	-0.76	-0.32	0.05	-1.50	-0.53	1.23	1.14	-0.72	**-9.33**
1341	1,6,10,13,17,18,20,23,27,28,31,30,32,46,47,50,54	1.05	0.66	0.07	-0.65	0.35	1.41	1.04	-1.48	1.65	0.26	0.60	-0.90	0.61	0.19	1.23	-0.77	0.98	**6.30**
1342	1,6,10,13,17,18,20,23,27,28,31,30,32,46,49,53,54	1.00	0.40	0.05	-0.70	0.33	0.55	0.80	-0.96	1.07	0.13	0.77	0.05	0.57	0.19	1.23	-0.77	0.98	**5.70**
1343	1,6,10,13,17,18,20,23,27,28,31,30,32,48,51	0.50	-0.12	0.80	-1.29	-1.63	1.41	1.52	-1.66	0.82	0.03	0.26	-0.90	1.08	0.19	1.23	-0.77	0.98	**2.45**
1344	1,6,10,13,17,18,20,23,27,28,31,30,32,48,52,53,54	0.18	-0.12	0.45	-1.68	-1.09	0.55	1.28	-1.48	0.94	0.03	-0.06	-1.85	0.60	0.19	1.23	-0.77	0.98	**-0.64**
1345	1,6,10,13,17,18,20,23,27,28,31,33,37,40,41,44,55	-0.84	-1.15	-0.85	-0.65	0.26	-0.73	-1.35	-1.06	-0.26	-0.34	-0.25	-0.90	-0.94	-0.53	1.23	-0.77	-0.72	**-9.88**
1346	1,6,10,13,17,18,20,23,27,28,31,33,37,40,41,45,55	0.86	-0.12	-0.01	0.37	-0.23	1.41	-0.16	-0.49	1.07	0.47	0.45	-0.90	-0.07	-0.53	1.23	-0.77	-0.72	**1.85**
1347	1,6,10,13,17,18,20,23,27,28,31,33,37,40,43,47,46,48,51	-0.10	-0.12	-0.38	1.14	-0.96	0.55	-0.16	-1.06	-0.83	-0.46	0.88	1.01	-0.61	-0.53	1.23	-0.77	-0.72	**-1.89**
1348	1,6,10,13,17,18,20,23,27,28,31,33,37,40,43,47,46,48,52,53,54	-0.42	-0.12	-0.73	0.76	-0.42	-0.30	-0.40	-0.89	-0.71	-0.46	0.56	0.05	-1.09	-0.53	1.23	-0.77	-0.72	**-4.97**
1349	1,6,10,13,17,18,20,23,27,28,31,33,37,40,43,47,49,53,54	-1.35	0.14	-1.60	-0.34	0.43	-0.30	-1.35	-0.37	-0.58	-0.36	-0.54	0.05	-1.46	-0.53	1.23	-0.77	-0.72	**-8.44**
1350	1,6,10,13,17,18,20,23,27,28,31,33,37,40,43,50,54	-1.45	-0.38	-1.62	-0.46	0.37	-0.30	-1.11	-0.89	0.00	-0.32	-0.79	-0.90	-1.51	-0.53	1.23	-0.77	-0.72	**-10.16**
1351	1,6,10,13,17,18,20,23,27,28,31,33,37,42,46,48,51	-0.23	-0.90	-0.41	1.07	-1.00	-0.30	-0.16	-1.06	-0.83	-0.50	0.84	1.01	-0.68	-0.53	1.23	-0.77	-0.72	**-3.96**
1352	1,6,10,13,17,18,20,23,27,28,31,33,37,42,46,48,52,53,54	-0.56	-0.90	-0.77	0.68	-0.46	-1.16	-0.40	-0.89	-0.71	-0.50	0.52	0.05	-1.17	-0.53	1.23	-0.77	-0.72	**-7.04**
1353	1,6,10,13,17,18,20,23,27,28,31,33,37,42,47,50,54	-1.44	-0.64	-1.62	-0.37	0.42	-0.30	-1.11	-0.89	0.00	-0.27	-0.76	-0.90	-1.50	-0.53	1.23	-0.77	-0.72	**-10.18**
1354	1,6,10,13,17,18,20,23,27,28,31,33,37,42,49,53,54	-1.48	-0.90	-1.64	-0.42	0.39	-1.16	-1.35	-0.37	-0.58	-0.39	-0.58	0.05	-1.54	-0.53	1.23	-0.77	-0.72	**-10.77**
1355	1,6,10,13,17,18,20,23,27,28,34,35,37,40,41,44,55	-0.87	-1.15	-0.85	-0.63	0.62	-0.73	-1.59	-1.06	0.04	-0.38	-0.28	-0.90	-0.99	-0.53	1.23	-0.77	-0.72	**-9.57**
1356	1,6,10,13,17,18,20,23,27,28,34,35,37,40,41,45,55	0.83	-0.12	-0.01	0.39	0.13	1.41	-0.40	-0.49	1.37	0.43	0.43	-0.90	-0.11	-0.53	1.23	-0.77	-0.72	**2.16**
1357	1,6,10,13,17,18,20,23,27,28,34,35,37,40,43,47,46,48,51	-0.13	-0.12	-0.37	1.17	-0.60	0.55	-0.40	-1.06	-0.53	-0.51	0.85	1.01	-0.65	-0.53	1.23	-0.77	-0.72	**-1.58**
1358	1,6,10,13,17,18,20,23,27,28,34,35,37,40,43,47,46,48,52,53,54	-0.45	-0.12	-0.73	0.78	-0.06	-0.30	-0.64	-0.89	-0.41	-0.51	0.53	0.05	-1.14	-0.53	1.23	-0.77	-0.72	**-4.66**
1359	1,6,10,13,17,18,20,23,27,28,34,35,37,40,43,47,49,53,54	-1.38	0.14	-1.59	-0.32	0.79	-0.30	-1.59	-0.37	-0.28	-0.40	-0.57	0.05	-1.51	-0.53	1.23	-0.77	-0.72	**-8.13**
1360	1,6,10,13,17,18,20,23,27,28,34,35,37,40,43,50,54	-1.48	-0.38	-1.61	-0.44	0.73	-0.30	-1.35	-0.89	0.30	-0.36	-0.81	-0.90	-1.55	-0.53	1.23	-0.77	-0.72	**-9.85**
1361	1,6,10,13,17,18,20,23,27,28,34,35,37,42,46,48,51	-0.26	-0.90	-0.41	1.09	-0.64	-0.30	-0.40	-1.06	-0.53	-0.54	0.82	1.01	-0.73	-0.53	1.23	-0.77	-0.72	**-3.65**
1362	1,6,10,13,17,18,20,23,27,28,34,35,37,42,46,48,52,53,54	-0.58	-0.90	-0.76	0.70	-0.10	-1.16	-0.64	-0.89	-0.41	-0.54	0.50	0.05	-1.21	-0.53	1.23	-0.77	-0.72	**-6.74**
1363	1,6,10,13,17,18,20,23,27,28,34,35,37,42,47,50,54	-1.47	-0.64	-1.61	-0.35	0.78	-0.30	-1.35	-0.89	0.30	-0.31	-0.79	-0.90	-1.55	-0.53	1.23	-0.77	-0.72	**-9.88**
1364	1,6,10,13,17,18,20,23,27,28,34,35,37,42,49,53,54	-1.51	-0.90	-1.63	-0.40	0.75	-1.16	-1.59	-0.37	-0.28	-0.44	-0.61	0.05	-1.58	-0.53	1.23	-0.77	-0.72	**-10.46**
1365	1,6,10,13,17,18,20,23,27,28,34,36,39,41,40,42,46,48,51	1.08	-0.12	0.72	1.34	-1.26	-0.30	0.32	-0.92	-0.56	1.43	-0.25	1.01	0.32	-0.53	1.23	-0.77	-0.72	**2.01**
1366	1,6,10,13,17,18,20,23,27,28,34,36,39,41,40,42,46,48,52,53,54	0.75	-0.12	0.36	0.96	-0.72	-1.16	0.08	-0.74	-0.44	1.43	-0.57	0.05	-0.17	-0.53	1.23	-0.77	-0.72	**-1.08**
1367	1,6,10,13,17,18,20,23,27,28,34,36,39,41,40,42,47,50,54	-0.14	0.14	-0.48	-0.09	0.16	-0.30	-0.64	-0.74	0.27	1.67	-1.86	-0.90	-0.50	-0.53	1.23	-0.77	-0.72	**-4.22**
1368	1,6,10,13,17,18,20,23,27,28,34,36,39,41,40,42,49,53,54	-0.18	-0.12	-0.50	-0.14	0.13	-1.16	-0.87	-0.22	-0.31	1.54	-1.67	0.05	-0.54	-0.53	1.23	-0.77	-0.72	**-4.80**
1369	1,6,10,13,17,18,20,23,27,28,34,36,39,41,43,47,46,48,51	1.08	0.14	0.72	1.42	-1.22	-0.30	0.32	-0.92	-0.56	1.47	-0.25	1.01	0.32	-0.53	1.23	-0.77	-0.72	**2.44**
1370	1,6,10,13,17,18,20,23,27,28,34,36,39,41,43,47,46,48,52,53,54	0.75	0.14	0.37	1.04	-0.68	-1.16	0.08	-0.74	-0.44	1.47	-0.56	0.05	-0.16	-0.53	1.23	-0.77	-0.72	**-0.65**
1371	1,6,10,13,17,18,20,23,27,28,34,36,39,41,43,47,49,53,54	-0.18	0.40	-0.50	-0.06	0.17	-1.16	-0.87	-0.22	-0.31	1.57	-1.67	0.05	-0.54	-0.53	1.23	-0.77	-0.72	**-4.12**
1372	1,6,10,13,17,18,20,23,27,28,34,36,39,41,43,50,54	-0.28	-0.12	-0.52	-0.18	0.11	-1.16	-0.64	-0.74	0.27	1.61	-1.91	-0.90	-0.58	-0.53	1.23	-0.77	-0.72	**-5.83**
1373	1,6,10,13,17,18,20,23,27,28,34,36,39,44,55	-1.21	-1.41	-0.17	-0.37	0.00	-1.59	-1.83	-0.92	0.01	1.59	-2.06	-0.90	-0.64	-0.53	1.23	-0.77	-0.72	**-10.31**
1374	1,6,10,13,17,18,20,23,27,28,34,36,39,45,55	0.49	-0.38	0.67	0.64	-0.49	0.55	-0.64	-0.35	1.34	2.40	-1.36	-0.90	0.23	-0.53	1.23	-0.77	-0.72	**1.43**
1375	1,6,10,13,17,18,20,23,27,28,34,38,40,42,46,48,51	-0.22	-0.90	-0.41	1.06	0.08	0.13	-0.40	-0.70	-0.21	-0.53	0.78	1.01	-0.72	-0.53	1.23	-0.77	1.40	**0.30**
1376	1,6,10,13,17,18,20,23,27,28,34,38,40,42,46,48,52,53,54	-0.54	-0.90	-0.77	0.67	0.61	-0.73	-0.64	-0.52	-0.08	-0.53	0.46	0.05	-1.20	-0.53	1.23	-0.77	1.40	**-2.78**
1377	1,6,10,13,17,18,20,23,27,28,34,38,40,42,47,50,54	-1.43	-0.64	-1.61	-0.38	1.49	0.13	-1.35	-0.52	0.62	-0.30	-0.83	-0.90	-1.54	-0.53	1.23	-0.77	1.40	**-5.92**
1378	1,6,10,13,17,18,20,23,27,28,34,38,40,42,49,53,54	-1.47	-0.90	-1.63	-0.43	1.46	-0.73	-1.59	0.00	0.04	-0.42	-0.65	0.05	-1.57	-0.53	1.23	-0.77	1.40	**-6.51**
1379	1,6,10,13,17,18,20,23,27,28,34,38,41,44,55	-0.96	-1.67	-0.88	-0.66	1.34	-1.16	-1.59	-0.70	0.37	-0.37	-0.35	-0.90	-1.05	-0.53	1.23	-0.77	1.40	**-7.27**
1380	1,6,10,13,17,18,20,23,27,28,34,38,41,45,55	0.74	-0.64	-0.04	0.36	0.85	0.98	-0.40	-0.12	1.69	0.44	0.35	-0.90	-0.17	-0.53	1.23	-0.77	1.40	**4.47**
1381	1,6,10,13,17,18,20,23,27,28,34,38,43,47,46,48,51	-0.22	-1.15	-0.41	1.14	0.12	0.13	-0.40	-0.70	-0.21	-0.50	0.78	1.01	-0.71	-0.53	1.23	-0.77	1.40	**0.21**
1382	1,6,10,13,17,18,20,23,27,28,34,38,43,47,46,48,52,53,54	-0.54	-1.15	-0.76	0.75	0.66	-0.73	-0.64	-0.52	-0.08	-0.50	0.46	0.05	-1.20	-0.53	1.23	-0.77	1.40	**-2.87**
1383	1,6,10,13,17,18,20,23,27,28,34,38,43,47,49,53,54	-1.47	-0.90	-1.63	-0.35	1.51	-0.73	-1.59	0.00	0.04	-0.39	-0.64	0.05	-1.57	-0.53	1.23	-0.77	1.40	**-6.34**
1384	1,6,10,13,17,18,20,23,27,28,34,38,43,50,54	-1.57	-1.41	-1.65	-0.47	1.44	-0.73	-1.35	-0.52	0.62	-0.35	-0.88	-0.90	-1.61	-0.53	1.23	-0.77	1.40	**-8.06**
1385	1,6,10,13,17,19,22,24,29,36,35,37,40,41,44,55	0.69	-0.38	0.49	-1.15	-0.48	0.13	-0.40	-2.11	-0.18	-0.51	0.45	-0.90	0.93	1.55	1.23	-0.77	-0.72	**-2.12**
1386	1,6,10,13,17,19,22,24,29,36,35,37,40,41,45,55	2.39	0.66	1.34	-0.13	-0.97	2.27	0.80	-1.54	1.15	0.30	1.16	-0.90	1.81	1.55	1.23	-0.77	-0.72	**9.62**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
1387	1,6,10,13,17,19,22,24,29,36,35,37,40,43,47,46,48,51	1.44	0.66	0.97	0.65	-1.69	1.41	0.80	-2.11	-0.75	-0.63	1.58	1.01	1.27	1.55	1.23	-0.77	-0.72	**5.88**
1388	1,6,10,13,17,19,22,24,29,36,35,37,40,43,47,46,48,52,53,54	1.11	0.66	0.61	0.26	-1.16	0.55	0.56	-1.94	-0.63	-0.63	1.26	0.05	0.78	1.55	1.23	-0.77	-0.72	**2.80**
1389	1,6,10,13,17,19,22,24,29,36,35,37,40,43,47,49,53,54	0.18	0.92	-0.25	-0.84	-0.31	0.55	-0.40	-1.41	-0.50	-0.53	0.16	0.05	0.41	1.55	1.23	-0.77	-0.72	**-0.67**
1390	1,6,10,13,17,19,22,24,29,36,35,37,40,43,50,54	0.08	0.40	-0.27	-0.95	-0.37	0.55	-0.16	-1.94	0.08	-0.48	-0.08	-0.90	0.37	1.55	1.23	-0.77	-0.72	**-2.39**
1391	1,6,10,13,17,19,22,24,29,36,35,37,42,46,48,51	1.31	-0.12	0.93	0.57	-1.74	0.55	0.80	-2.11	-0.75	-0.66	1.55	1.01	1.19	1.55	1.23	-0.77	-0.72	**3.81**
1392	1,6,10,13,17,19,22,24,29,36,35,37,42,46,48,52,53,54	0.98	-0.12	0.58	0.18	-1.20	-0.30	0.56	-1.94	-0.63	-0.66	1.23	0.05	0.71	1.55	1.23	-0.77	-0.72	**0.72**
1393	1,6,10,13,17,19,22,24,29,36,35,37,42,47,50,54	0.10	0.14	-0.27	-0.86	-0.32	0.55	-0.16	-1.94	0.08	-0.43	-0.06	-0.90	0.37	1.55	1.23	-0.77	-0.72	**-2.42**
1394	1,6,10,13,17,19,22,24,29,36,35,37,42,49,53,54	0.05	-0.12	-0.29	-0.92	-0.35	-0.30	-0.40	-1.41	-0.50	-0.56	0.12	0.05	0.34	1.55	1.23	-0.77	-0.72	**-3.00**
1395	1,6,10,13,17,19,22,24,29,36,38,40,42,46,48,51	1.35	0.14	0.93	0.54	-1.02	0.98	0.80	-1.75	-0.43	-0.65	1.51	1.01	1.20	1.55	1.23	-0.77	1.40	**8.02**
1396	1,6,10,13,17,19,22,24,29,36,38,40,42,46,48,52,53,54	1.02	0.14	0.58	0.15	-0.48	0.13	0.56	-1.57	-0.30	-0.65	1.19	0.05	0.72	1.55	1.23	-0.77	1.40	**4.94**
1397	1,6,10,13,17,19,22,24,29,36,38,40,42,47,50,54	0.13	0.40	-0.27	-0.90	0.40	0.98	-0.16	-1.57	0.40	-0.42	-0.10	-0.90	0.38	1.55	1.23	-0.77	1.40	**1.80**
1398	1,6,10,13,17,19,22,24,29,36,38,40,42,49,53,54	0.09	0.14	-0.29	-0.95	0.37	0.13	-0.40	-1.05	-0.18	-0.55	0.08	0.05	0.35	1.55	1.23	-0.77	1.40	**1.21**
1399	1,6,10,13,17,19,22,24,29,36,38,41,44,55	0.60	-0.64	0.46	-1.18	0.24	-0.30	-0.40	-1.75	0.15	-0.49	0.37	-0.90	0.87	1.55	1.23	-0.77	1.40	**0.45**
1400	1,6,10,13,17,19,22,24,29,36,38,41,45,55	2.30	0.40	1.30	-0.16	-0.25	1.84	0.80	-1.17	1.47	0.32	1.08	-0.90	1.75	1.55	1.23	-0.77	1.40	**12.18**
1401	1,6,10,13,17,19,22,24,29,36,38,43,47,46,48,51	1.35	-0.12	0.93	0.62	-0.98	0.98	0.80	-1.75	-0.43	-0.62	1.51	1.01	1.21	1.55	1.23	-0.77	1.40	**7.93**
1402	1,6,10,13,17,19,22,24,29,36,38,43,47,46,48,52,53,54	1.02	-0.12	0.58	0.23	-0.44	0.13	0.56	-1.57	-0.30	-0.62	1.19	0.05	0.72	1.55	1.23	-0.77	1.40	**4.84**
1403	1,6,10,13,17,19,22,24,29,36,38,43,47,49,53,54	0.09	0.14	-0.29	-0.87	0.41	0.13	-0.40	-1.05	-0.18	-0.51	0.09	0.05	0.35	1.55	1.23	-0.77	1.40	**1.38**
1404	1,6,10,13,17,19,22,24,29,36,38,43,50,54	-0.01	-0.38	-0.31	-0.99	0.35	0.13	-0.16	-1.57	0.40	-0.47	-0.15	-0.90	0.31	1.55	1.23	-0.77	1.40	**-0.34**
1405	1,6,10,13,17,19,22,24,29,39,41,40,42,46,48,51	1.55	-0.12	1.76	0.20	-2.36	-0.30	1.52	-1.97	-0.78	0.67	0.24	1.01	1.68	1.55	1.23	-0.77	-0.72	**4.37**
1406	1,6,10,13,17,19,22,24,29,39,41,40,42,46,48,52,53,54	1.22	-0.12	1.41	-0.19	-1.82	-1.16	1.28	-1.79	-0.66	0.67	-0.08	0.05	1.20	1.55	1.23	-0.77	-0.72	**1.29**
1407	1,6,10,13,17,19,22,24,29,39,41,40,42,47,50,54	0.34	0.14	0.56	-1.24	-0.94	-0.30	0.56	-1.79	0.05	0.90	-1.37	-0.90	0.86	1.55	1.23	-0.77	-0.72	**-1.85**
1408	1,6,10,13,17,19,22,24,29,39,41,40,42,49,53,54	0.29	-0.12	0.54	-1.29	-0.97	-1.16	0.32	-1.27	-0.53	0.78	-1.19	0.05	0.82	1.55	1.23	-0.77	-0.72	**-2.44**
1409	1,6,10,13,17,19,22,24,29,39,41,43,47,46,48,51	1.55	0.14	1.77	0.28	-2.31	-0.30	1.52	-1.97	-0.78	0.70	0.24	1.01	1.68	1.55	1.23	-0.77	-0.72	**4.80**
1410	1,6,10,13,17,19,22,24,29,39,41,43,47,46,48,52,53,54	1.22	0.14	1.41	-0.11	-1.77	-1.16	1.28	-1.79	-0.66	0.70	-0.08	0.05	1.20	1.55	1.23	-0.77	-0.72	**1.72**
1411	1,6,10,13,17,19,22,24,29,39,41,43,47,49,53,54	0.29	0.40	0.54	-1.21	-0.92	-1.16	0.32	-1.27	-0.53	0.81	-1.18	0.05	0.83	1.55	1.23	-0.77	-0.72	**-1.75**
1412	1,6,10,13,17,19,22,24,29,39,41,43,50,54	0.19	-0.12	0.52	-1.33	-0.99	-1.16	0.56	-1.79	0.05	0.85	-1.42	-0.90	0.79	1.55	1.23	-0.77	-0.72	**-3.47**
1413	1,6,10,13,17,19,22,24,29,39,44,55	-0.74	-1.41	0.87	-1.52	-1.09	-1.59	-0.64	-1.97	-0.21	0.83	-1.57	-0.90	0.72	1.55	1.23	-0.77	-0.72	**-7.94**
1414	1,6,10,13,17,19,22,24,29,39,45,55	0.96	-0.38	1.71	-0.50	-1.59	0.55	0.56	-1.39	1.12	1.64	-0.87	-0.90	1.60	1.55	1.23	-0.77	-0.72	**3.79**
1415	1,6,10,13,17,19,22,25,29,36,35,37,40,41,44,55	0.48	-0.64	0.44	-1.58	-0.14	0.13	-0.16	-2.09	-0.61	-0.44	0.09	-0.90	0.87	1.58	1.23	-0.77	-0.72	**-3.25**
1416	1,6,10,13,17,19,22,25,29,36,35,37,40,41,45,55	2.18	0.40	1.28	-0.56	-0.64	2.27	1.04	-1.51	0.71	0.37	0.79	-0.90	1.75	1.58	1.23	-0.77	-0.72	**8.49**
1417	1,6,10,13,17,19,22,25,29,36,35,37,40,43,47,46,48,51	1.22	0.40	0.91	0.22	-1.36	1.41	1.04	-2.09	-1.19	-0.56	1.22	1.01	1.21	1.58	1.23	-0.77	-0.72	**4.75**
1418	1,6,10,13,17,19,22,25,29,36,35,37,40,43,47,46,48,52,53,54	0.90	0.40	0.56	-0.17	-0.82	0.55	0.80	-1.91	-1.07	-0.56	0.90	0.05	0.72	1.58	1.23	-0.77	-0.72	**1.66**
1419	1,6,10,13,17,19,22,25,29,36,35,37,40,43,47,49,53,54	-0.03	0.66	-0.31	-1.27	0.03	0.55	-0.16	-1.39	-0.94	-0.46	-0.21	0.05	0.35	1.58	1.23	-0.77	-0.72	**-1.80**
1420	1,6,10,13,17,19,22,25,29,36,35,37,40,43,50,54	-0.13	0.14	-0.33	-1.39	-0.04	0.55	0.08	-1.91	-0.36	-0.41	-0.45	-0.90	0.31	1.58	1.23	-0.77	-0.72	**-3.52**
1421	1,6,10,13,17,19,22,25,29,36,35,37,42,46,48,51	1.09	-0.38	0.87	0.14	-1.41	0.55	1.04	-2.09	-1.19	-0.59	1.18	1.01	1.14	1.58	1.23	-0.77	-0.72	**2.68**
1422	1,6,10,13,17,19,22,25,29,36,35,37,42,46,48,52,53,54	0.76	-0.38	0.52	-0.25	-0.87	-0.30	0.80	-1.91	-1.07	-0.59	0.86	0.05	0.65	1.58	1.23	-0.77	-0.72	**-0.41**
1423	1,6,10,13,17,19,22,25,29,36,35,37,42,47,50,54	-0.12	-0.12	-0.33	-1.30	0.01	0.55	0.08	-1.91	-0.36	-0.36	-0.43	-0.90	0.32	1.58	1.23	-0.77	-0.72	**-3.55**
1424	1,6,10,13,17,19,22,25,29,36,35,37,42,49,53,54	-0.16	-0.38	-0.35	-1.35	-0.02	-0.30	-0.16	-1.39	-0.94	-0.49	-0.24	0.05	0.28	1.58	1.23	-0.77	-0.72	**-4.13**
1425	1,6,10,13,17,19,22,25,29,36,38,40,42,46,48,51	1.13	-0.12	0.87	0.11	-0.69	0.98	1.04	-1.72	-0.86	-0.58	1.14	1.01	1.14	1.58	1.23	-0.77	1.40	**6.89**
1426	1,6,10,13,17,19,22,25,29,36,38,40,42,46,48,52,53,54	0.80	-0.12	0.52	-0.28	-0.15	0.13	0.80	-1.55	-0.74	-0.58	0.82	0.05	0.66	1.58	1.23	-0.77	1.40	**3.80**
1427	1,6,10,13,17,19,22,25,29,36,38,40,42,47,50,54	-0.08	0.14	-0.33	-1.33	0.73	0.98	0.08	-1.55	-0.04	-0.35	-0.47	-0.90	0.32	1.58	1.23	-0.77	1.40	**0.66**
1428	1,6,10,13,17,19,22,25,29,36,38,40,42,49,53,54	-0.12	-0.12	-0.35	-1.38	0.70	0.13	-0.16	-1.02	-0.62	-0.48	-0.28	0.05	0.29	1.58	1.23	-0.77	1.40	**0.08**
1429	1,6,10,13,17,19,22,25,29,36,38,41,44,55	0.39	-0.90	0.40	-1.61	0.57	-0.30	-0.16	-1.72	-0.29	-0.42	0.01	-0.90	0.81	1.58	1.23	-0.77	1.40	**-0.68**
1430	1,6,10,13,17,19,22,25,29,36,38,41,45,55	2.09	0.14	1.24	-0.59	0.08	1.84	1.04	-1.15	1.03	0.39	0.71	-0.90	1.69	1.58	1.23	-0.77	1.40	**11.05**
1431	1,6,10,13,17,19,22,25,29,36,38,43,47,46,48,51	1.13	-0.38	0.88	0.19	-0.64	0.98	1.04	-1.72	-0.86	-0.55	1.15	1.01	1.15	1.58	1.23	-0.77	1.40	**6.80**
1432	1,6,10,13,17,19,22,25,29,36,38,43,47,46,48,52,53,54	0.81	-0.38	0.52	-0.20	-0.11	0.13	0.80	-1.55	-0.74	-0.55	0.83	0.05	0.66	1.58	1.23	-0.77	1.40	**3.71**
1433	1,6,10,13,17,19,22,25,29,36,38,43,47,49,53,54	-0.12	-0.12	-0.35	-1.30	0.74	0.13	-0.16	-1.02	-0.62	-0.44	-0.28	0.05	0.29	1.58	1.23	-0.77	1.40	**0.25**
1434	1,6,10,13,17,19,22,25,29,36,38,43,50,54	-0.22	-0.64	-0.37	-1.42	0.68	0.13	0.08	-1.55	-0.04	-0.40	-0.52	-0.90	0.25	1.58	1.23	-0.77	1.40	**-1.47**
1435	1,6,10,13,17,19,22,25,29,39,41,40,42,46,48,51	1.33	-0.38	1.71	-0.24	-2.02	-0.30	1.75	-1.95	-1.22	0.74	-0.13	1.01	1.62	1.58	1.23	-0.77	-0.72	**3.24**
1436	1,6,10,13,17,19,22,25,29,39,41,40,42,46,48,52,53,54	1.01	-0.38	1.35	-0.62	-1.49	-1.16	1.52	-1.77	-1.10	0.74	-0.45	0.05	1.14	1.58	1.23	-0.77	-0.72	**0.16**
1437	1,6,10,13,17,19,22,25,29,39,41,40,42,47,50,54	0.12	-0.12	0.50	-1.67	-0.61	-0.30	0.80	-1.77	-0.39	0.97	-1.73	-0.90	0.80	1.58	1.23	-0.77	-0.72	**-2.98**
1438	1,6,10,13,17,19,22,25,29,39,41,40,42,49,53,54	0.08	-0.38	0.48	-1.72	-0.63	-1.16	0.56	-1.25	-0.97	0.84	-1.55	0.05	0.77	1.58	1.23	-0.77	-0.72	**-3.57**
1439	1,6,10,13,17,19,22,25,29,39,41,43,47,46,48,51	1.33	-0.12	1.71	-0.16	-1.98	-0.30	1.75	-1.95	-1.22	0.77	-0.12	1.01	1.63	1.58	1.23	-0.77	-0.72	**3.67**
1440	1,6,10,13,17,19,22,25,29,39,41,43,47,46,48,52,53,54	1.01	-0.12	1.35	-0.54	-1.44	-1.16	1.52	-1.77	-1.10	0.77	-0.44	0.05	1.14	1.58	1.23	-0.77	-0.72	**0.58**
1441	1,6,10,13,17,19,22,25,29,39,41,43,47,49,53,54	0.08	0.14	0.48	-1.64	-0.59	-1.16	0.56	-1.25	-0.97	0.88	-1.55	0.05	0.77	1.58	1.23	-0.77	-0.72	**-2.88**
1442	1,6,10,13,17,19,22,25,29,39,41,43,50,54	-0.02	-0.38	0.46	-1.76	-0.66	-1.16	0.80	-1.77	-0.39	0.92	-1.79	-0.90	0.73	1.58	1.23	-0.77	-0.72	**-4.60**
1443	1,6,10,13,17,19,22,25,29,39,44,55	-0.95	-1.67	0.81	-1.95	-0.76	-1.59	-0.40	-1.95	-0.64	0.90	-1.94	-0.90	0.66	1.58	1.23	-0.77	-0.72	**-9.08**
1444	1,6,10,13,17,19,22,25,29,39,45,55	0.75	-0.64	1.65	-0.94	-1.25	0.55	0.80	-1.37	0.68	1.71	-1.23	-0.90	1.54	1.58	1.23	-0.77	-0.72	**2.66**
1445	1,6,10,13,17,21,27,26,30,32,46,47,50,54	1.02	0.66	0.25	-0.92	0.18	2.27	1.52	-2.17	1.47	-0.55	1.28	-0.90	0.91	0.29	1.23	1.14	0.98	**8.65**
1446	1,6,10,13,17,21,27,26,30,32,46,49,53,54	0.97	0.40	0.23	-0.97	0.15	1.41	1.28	-1.65	0.88	-0.68	1.44	0.05	0.88	0.29	1.23	1.14	0.98	**8.04**
1447	1,6,10,13,47,21,27,26,30,32,48,51	0.47	-0.12	0.98	-1.57	-1.80	2.27	1.99	-2.35	0.64	-0.79	0.93	-0.90	1.39	0.29	1.23	1.14	0.98	**4.79**
1448	1,6,10,13,17,21,27,26,30,32,48,52,53,54	0.15	-0.12	0.63	-1.95	-1.26	1.41	1.75	-2.17	0.76	-0.79	0.61	-1.85	0.90	0.29	1.23	1.14	0.98	**1.71**
1449	1,6,10,13,17,21,27,26,31,34,35,37,40,41,44,55	-0.81	-0.64	-0.64	-0.90	0.45	0.13	-1.11	-1.76	-0.14	-1.17	0.48	-0.90	-0.62	-0.43	1.23	1.14	-0.72	**-6.42**

Westar Energy- JEC to East Manhattan
345/230 kV Transmission Line Project
Table F-2: Raw Scores for All Routes

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
1450	1,6,10,13,17,21,27,26,31,34,35,37,40,41,45,55	0.89	0.40	0.20	0.11	-0.04	2.27	0.08	-1.18	1.18	-0.36	1.18	-0.90	0.26	-0.43	1.23	1.14	-0.72	**5.31**
1451	1,6,10,13,17,21,27,26,31,34,35,37,40,43,47,46,48,51	-0.06	0.40	-0.16	0.89	-0.77	1.41	0.08	-1.76	-0.71	-1.30	1.61	1.01	-0.28	-0.43	1.23	1.14	-0.72	**1.57**
1452	1,6,10,13,17,21,27,26,31,34,35,37,40,43,47,46,48,52,53,54	-0.39	0.40	-0.52	0.51	-0.23	0.55	-0.16	-1.58	-0.59	-1.30	1.29	0.05	-0.77	-0.43	1.23	1.14	-0.72	**-1.51**
1453	1,6,10,13,17,21,27,26,31,34,35,37,40,43,47,49,53,54	-1.32	0.66	-1.39	-0.59	0.62	0.55	-1.11	-1.06	-0.47	-1.19	0.19	0.05	-1.14	-0.43	1.23	1.14	-0.72	**-4.98**
1454	1,6,10,13,17,21,27,26,31,34,35,37,40,43,50,54	-1.42	0.14	-1.41	-0.71	0.55	0.55	-0.87	-1.58	0.12	-1.15	-0.06	-0.90	-1.18	-0.43	1.23	1.14	-0.72	**-6.70**
1455	1,6,10,13,17,21,27,26,31,34,35,37,42,46,48,51	-0.19	-0.38	-0.20	0.81	-0.81	0.55	0.08	-1.76	-0.71	-1.33	1.57	1.01	-0.36	-0.43	1.23	1.14	-0.72	**-0.50**
1456	1,6,10,13,17,21,27,26,31,34,35,37,42,46,48,52,53,54	-0.52	-0.38	-0.56	0.43	-0.28	-0.30	-0.16	-1.58	-0.59	-1.33	1.25	0.05	-0.84	-0.43	1.23	1.14	-0.72	**-3.58**
1457	1,6,10,13,17,21,27,26,31,34,35,37,42,47,50,54	-1.40	-0.12	-1.40	-0.62	0.60	0.55	-0.87	-1.58	0.12	-1.10	-0.03	-0.90	-1.18	-0.43	1.23	1.14	-0.72	**-6.72**
1458	1,6,10,13,17,21,27,26,31,34,35,37,42,49,53,54	-1.45	-0.38	-1.42	-0.67	0.58	-0.30	-1.11	-1.06	-0.47	-1.22	0.15	0.05	-1.21	-0.43	1.23	1.14	-0.72	**-7.31**
1459	1,6,10,13,17,21,27,26,31,34,36,39,41,40,42,46,48,51	1.14	0.40	0.93	1.07	-1.43	0.55	0.80	-1.61	-0.74	0.65	0.50	1.01	0.68	-0.43	1.23	1.14	-0.72	**5.16**
1460	1,6,10,13,17,21,27,26,31,34,36,39,41,40,42,46,48,52,53,54	0.81	0.40	0.57	0.68	-0.89	-0.30	0.56	-1.43	-0.62	0.65	0.19	0.05	0.20	-0.43	1.23	1.14	-0.72	**2.07**
1461	1,6,10,13,17,21,27,26,31,34,36,39,41,40,42,47,50,54	-0.07	0.66	-0.28	-0.37	-0.01	0.55	-0.16	-1.43	0.09	0.88	-1.10	-0.90	-0.14	-0.43	1.23	1.14	-0.72	**-1.07**
1462	1,6,10,13,17,21,27,26,31,34,36,39,41,40,42,49,53,54	-0.12	0.40	-0.30	-0.42	-0.04	-0.30	-0.40	-0.91	-0.50	0.75	-0.92	0.05	-0.17	-0.43	1.23	1.14	-0.72	**-1.65**
1463	1,6,10,13,17,21,27,26,31,34,36,39,41,43,47,46,48,51	1.14	0.66	0.93	1.15	-1.39	0.55	0.80	-1.61	-0.74	0.68	0.51	1.01	0.69	-0.43	1.23	1.14	-0.72	**5.59**
1464	1,6,10,13,17,21,27,26,31,34,36,39,41,43,47,46,48,52,53,54	0.81	0.66	0.57	0.76	-0.85	-0.30	0.56	-1.43	-0.62	0.68	0.19	0.05	0.20	-0.43	1.23	1.14	-0.72	**2.50**
1465	1,6,10,13,17,21,27,26,31,34,36,39,41,43,47,49,53,54	-0.11	0.92	-0.29	-0.34	0.00	-0.30	-0.40	-0.91	-0.50	0.78	-0.91	0.05	-0.17	-0.43	1.23	1.14	-0.72	**-0.96**
1466	1,6,10,13,17,21,27,26,31,34,36,39,41,43,50,54	-0.21	0.40	-0.31	-0.46	-0.06	-0.30	-0.16	-1.43	0.09	0.83	-1.15	-0.90	-0.21	-0.43	1.23	1.14	-0.72	**-2.68**
1467	1,6,10,13,17,21,27,26,31,34,36,39,44,55	-1.15	-0.90	0.04	-0.65	-0.17	-0.73	-1.35	-1.61	-0.17	0.80	-1.31	-0.90	-0.27	-0.43	1.23	1.14	-0.72	**-7.16**
1468	1,6,10,13,17,21,27,26,31,34,36,39,45,55	0.55	0.14	0.88	0.37	-0.66	1.41	-0.16	-1.04	1.15	1.61	-0.60	-0.90	0.60	-0.43	1.23	1.14	-0.72	**4.58**
1469	1,6,10,13,17,21,27,26,31,34,38,40,42,46,48,51	-0.15	-0.38	-0.20	0.78	-0.10	0.98	0.08	-1.39	-0.39	-1.32	1.53	1.01	-0.35	-0.43	1.23	1.14	1.40	**3.46**
1470	1,6,10,13,17,21,27,26,31,34,38,40,42,46,48,52,53,54	-0.48	-0.38	-0.56	0.40	0.44	0.13	-0.16	-1.21	-0.27	-1.32	1.21	0.05	-0.83	-0.43	1.23	1.14	1.40	**0.37**
1471	1,6,10,13,17,21,27,26,31,34,38,40,42,47,50,54	-1.37	-0.12	-1.41	-0.65	1.32	0.98	-0.87	-1.21	0.44	-1.08	-0.07	-0.90	-1.17	-0.43	1.23	1.14	1.40	**-2.77**
1472	1,6,10,13,17,21,27,26,31,34,38,40,42,49,53,54	-1.41	-0.38	-1.43	-0.70	1.29	0.13	-1.11	-0.69	-0.14	-1.21	0.11	0.05	-1.21	-0.43	1.23	1.14	1.40	**-3.36**
1473	1,6,10,13,17,21,27,26,31,34,38,41,44,55	-0.90	-1.15	-0.68	-0.94	1.17	-0.30	-1.11	-1.39	0.18	-1.16	0.40	-0.90	-0.68	-0.43	1.23	1.14	1.40	**-4.12**
1474	1,6,10,13,17,21,27,26,31,34,38,41,45,55	0.80	-0.12	0.16	0.08	0.67	1.84	0.08	-0.81	1.51	-0.35	1.11	-0.90	0.19	-0.43	1.23	1.14	1.40	**7.62**
1475	1,6,10,13,17,21,27,26,31,34,38,43,47,46,48,51	-0.15	-0.64	-0.20	0.86	-0.05	0.98	0.08	-1.39	-0.39	-1.28	1.54	1.01	-0.35	-0.43	1.23	1.14	1.40	**3.36**
1476	1,6,10,13,17,21,27,26,31,34,38,43,47,46,48,52,53,54	-0.48	-0.64	-0.56	0.47	0.49	0.13	-0.16	-1.21	-0.27	-1.28	1.22	0.05	-0.83	-0.43	1.23	1.14	1.40	**0.28**
1477	1,6,10,13,17,21,27,26,31,34,38,43,47,49,53,54	-1.41	-0.38	-1.42	-0.62	1.34	0.13	-1.11	-0.69	-0.14	-1.18	0.11	0.05	-1.20	-0.43	1.23	1.14	1.40	**-3.19**
1478	1,6,10,13,17,21,27,26,31,34,38,43,50,54	-1.51	-0.90	-1.44	-0.74	1.27	0.13	-0.87	-1.21	0.44	-1.14	-0.13	-0.90	-1.25	-0.43	1.23	1.14	1.40	**-4.91**
1479	1,6,10,13,17,21,27,26,33,37,40,41,44,55	-0.87	-1.67	-0.67	-0.93	0.09	0.13	-0.87	-1.76	-0.44	-1.15	0.42	-0.90	-0.64	-0.43	1.23	1.14	-0.72	**-8.06**
1480	1,6,10,13,17,21,27,26,33,37,40,41,45,55	0.83	-0.64	0.17	0.09	-0.40	2.27	0.32	-1.18	0.88	-0.34	1.13	-0.90	0.24	-0.43	1.23	1.14	-0.72	**3.68**
1481	1,6,10,13,17,21,27,26,33,37,40,43,47,46,48,51	-0.13	-0.64	-0.20	0.87	-1.13	1.41	0.32	-1.76	-1.01	-1.28	1.56	1.01	-0.30	-0.43	1.23	1.14	-0.72	**-0.06**
1482	1,6,10,13,17,21,27,26,33,37,40,43,47,46,48,52,53,54	-0.45	-0.64	-0.55	0.48	-0.59	0.55	0.08	-1.58	-0.89	-1.28	1.24	0.05	-0.79	-0.43	1.23	1.14	-0.72	**-3.15**
1483	1,6,10,13,17,21,27,26,33,37,40,43,47,49,53,54	-1.38	-0.38	-1.42	-0.62	0.26	0.55	-0.87	-1.06	-0.77	-1.17	0.13	0.05	-1.16	-0.43	1.23	1.14	-0.72	**-6.61**
1484	1,6,10,13,17,21,27,26,33,37,40,43,50,54	-1.48	-0.90	-1.44	-0.73	0.20	0.55	-0.64	-1.58	-0.19	-1.13	-0.11	-0.90	-1.20	-0.43	1.23	1.14	-0.72	**-8.33**
1485	1,6,10,13,17,21,27,26,33,37,42,46,48,51	-0.26	-1.41	-0.23	0.79	-1.17	0.55	0.32	-1.76	-1.01	-1.31	1.52	1.01	-0.38	-0.43	1.23	1.14	-0.72	**-2.13**
1486	1,6,10,13,17,21,27,26,33,37,42,46,48,52,53,54	-0.59	-1.41	-0.59	0.40	-0.63	-0.30	0.08	-1.58	-0.89	-1.31	1.20	0.05	-0.86	-0.43	1.23	1.14	-0.72	**-5.22**
1487	1,6,10,13,17,21,27,26,33,37,42,47,50,54	-1.47	-1.15	-1.44	-0.64	0.25	0.55	-0.64	-1.58	-0.19	-1.08	-0.09	-0.90	-1.20	-0.43	1.23	1.14	-0.72	**-8.36**
1488	1,6,10,13,17,21,27,26,33,37,42,49,53,54	-1.51	-1.41	-1.46	-0.70	0.22	-0.30	-0.87	-1.06	-0.77	-1.21	0.10	0.05	-1.23	-0.43	1.23	1.14	-0.72	**-8.94**
1489	1,6,10,13,17,21,28,31,30,32,46,47,50,54	0.94	0.14	0.18	-0.90	0.39	2.27	1.52	-2.17	1.11	-0.31	1.02	-0.90	0.82	0.29	1.23	-0.77	0.98	**5.85**
1490	1,6,10,13,17,21,28,31,30,32,46,49,53,54	0.90	-0.12	0.17	-0.95	0.36	1.41	1.28	-1.65	0.53	-0.44	1.19	0.05	0.78	0.29	1.23	-0.77	0.98	**5.24**
1491	1,6,10,13,17,21,28,31,30,32,48,51	0.40	-0.64	0.91	-1.54	-1.59	2.27	1.99	-2.35	0.28	-0.54	0.68	-0.90	1.29	0.29	1.23	-0.77	0.98	**1.99**
1492	1,6,10,13,17,21,28,31,30,32,48,52,53,54	0.07	-0.64	0.56	-1.93	-1.06	1.41	1.75	-2.17	0.41	-0.54	0.36	-1.85	0.81	0.29	1.23	-0.77	0.98	**-1.09**
1493	1,6,10,13,17,21,28,31,33,37,40,41,44,55	-0.94	-1.67	-0.74	-0.90	0.30	0.13	-0.87	-1.76	-0.79	-0.91	0.17	-0.90	-0.73	-0.43	1.23	-0.77	-0.72	**-10.34**
1494	1,6,10,13,17,21,28,31,33,37,40,41,45,55	0.76	-0.64	0.10	0.12	-0.20	2.27	0.32	-1.18	0.53	-0.10	0.87	-0.90	0.14	-0.43	1.23	-0.77	-0.72	**1.40**
1495	1,6,10,13,17,21,28,31,33,37,40,43,47,46,48,51	-0.20	-0.64	-0.26	0.90	-0.92	1.41	0.32	-1.76	-1.37	-1.03	1.30	1.01	-0.40	-0.43	1.23	-0.77	-0.72	**-2.34**
1496	1,6,10,13,17,21,28,31,33,37,40,43,47,46,48,52,53,54	-0.53	-0.64	-0.62	0.51	-0.38	0.55	0.08	-1.58	-1.25	-1.03	0.98	0.05	-0.88	-0.43	1.23	-0.77	-0.72	**-5.43**
1497	1,6,10,13,17,21,28,31,33,37,40,43,47,49,53,54	-1.45	-0.38	-1.49	-0.59	0.47	0.55	-0.87	-1.06	-1.12	-0.93	-0.12	0.05	-1.25	-0.43	1.23	-0.77	-0.72	**-8.89**
1498	1,6,10,13,17,21,28,31,33,37,40,43,50,54	-1.55	-0.90	-1.51	-0.71	0.40	0.55	-0.64	-1.58	-0.54	-0.89	-0.37	-0.90	-1.30	-0.43	1.23	-0.77	-0.72	**-10.61**
1499	1,6,10,13,17,21,28,31,33,37,42,46,48,51	-0.33	-1.41	-0.30	0.82	-0.97	0.55	0.32	-1.76	-1.37	-1.07	1.26	1.01	-0.47	-0.43	1.23	-0.77	-0.72	**-4.41**
1500	1,6,10,13,17,21,28,31,33,37,42,46,48,52,53,54	-0.66	-1.41	-0.66	0.43	-0.43	-0.30	0.08	-1.58	-1.25	-1.07	0.94	0.05	-0.96	-0.43	1.23	-0.77	-0.72	**-7.50**
1501	1,6,10,13,17,21,28,31,33,37,42,47,50,54	-1.54	-1.15	-1.51	-0.62	0.45	0.55	-0.64	-1.58	-0.54	-0.83	-0.34	-0.90	-1.29	-0.43	1.23	-0.77	-0.72	**-10.64**
1502	1,6,10,13,17,21,28,31,33,37,42,49,53,54	-1.59	-1.41	-1.53	-0.67	0.42	-0.30	-0.87	-1.06	-1.12	-0.96	-0.16	0.05	-1.33	-0.43	1.23	-0.77	-0.72	**-11.22**
1503	1,6,10,13,17,21,28,34,35,37,40,41,44,55	-0.97	-1.67	-0.73	-0.88	0.65	0.13	-1.11	-1.76	-0.49	-0.95	0.14	-0.90	-0.78	-0.43	1.23	-0.77	-0.72	**-10.03**
1504	1,6,10,13,17,21,28,34,35,37,40,41,45,55	0.73	-0.64	0.11	0.14	0.16	2.27	0.08	-1.18	0.83	-0.14	0.85	-0.90	0.10	-0.43	1.23	-0.77	-0.72	**1.71**
1505	1,6,10,13,17,21,28,34,35,37,40,43,47,46,48,51	-0.23	-0.64	-0.26	0.92	-0.56	1.41	0.08	-1.76	-1.07	-1.08	1.27	1.01	-0.44	-0.43	1.23	-0.77	-0.72	**-2.03**
1506	1,6,10,13,17,21,28,34,35,37,40,43,47,46,48,52,53,54	-0.55	-0.64	-0.61	0.53	-0.03	0.55	-0.16	-1.58	-0.94	-1.08	0.95	0.05	-0.93	-0.43	1.23	-0.77	-0.72	**-5.12**
1507	1,6,10,13,17,21,28,34,35,37,40,43,47,49,53,54	-1.48	-0.38	-1.48	-0.57	0.83	0.55	-1.11	-1.06	-0.82	-0.97	-0.15	0.05	-1.30	-0.43	1.23	-0.77	-0.72	**-8.58**
1508	1,6,10,13,17,21,28,34,35,37,40,43,50,54	-1.58	-0.90	-1.50	-0.69	0.76	0.55	-0.87	-1.58	-0.24	-0.93	-0.39	-0.90	-1.34	-0.43	1.23	-0.77	-0.72	**-10.30**
1509	1,6,10,13,17,21,28,34,35,37,42,46,48,51	-0.36	-1.41	-0.30	0.84	-0.61	0.55	0.08	-1.76	-1.07	-1.11	1.24	1.01	-0.52	-0.43	1.23	-0.77	-0.72	**-4.11**
1510	1,6,10,13,17,21,28,34,35,37,42,46,48,52,53,54	-0.69	-1.41	-0.65	0.45	-0.07	-0.30	-0.16	-1.58	-0.94	-1.11	0.92	0.05	-1.00	-0.43	1.23	-0.77	-0.72	**-7.19**
1511	1,6,10,13,17,21,28,34,35,37,42,47,50,54	-1.57	-1.15	-1.50	-0.60	0.81	0.55	-0.87	-1.58	-0.24	-0.88	-0.37	-0.90	-1.34	-0.43	1.23	-0.77	-0.72	**-10.33**
1512	1,6,10,13,17,21,28,34,35,37,42,49,53,54	-1.61	-1.41	-1.52	-0.65	0.78	-0.30	-1.11	-1.06	-0.82	-1.00	-0.19	0.05	-1.37	-0.43	1.23	-0.77	-0.72	**-10.92**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
1513	1,6,10,13,17,21,28,34,36,39,41,40,42,46,48,51	0.97	-0.64	0.83	1.09	-1.23	0.55	0.80	-1.61	-1.10	0.87	0.17	1.01	0.53	-0.43	1.23	-0.77	-0.72	**1.55**
1514	1,6,10,13,17,21,28,34,36,39,41,40,42,46,48,52,53,54	0.65	-0.64	0.48	0.71	-0.69	-0.30	0.56	-1.43	-0.97	0.87	-0.15	0.05	0.04	-0.43	1.23	-0.77	-0.72	**-1.53**
1515	1,6,10,13,17,21,28,34,36,39,41,40,42,47,50,54	-0.24	-0.38	-0.37	-0.34	0.19	0.55	-0.16	-1.43	-0.27	1.10	-1.44	-0.90	-0.29	-0.43	1.23	-0.77	-0.72	**-4.67**
1516	1,6,10,13,17,21,28,34,36,39,41,40,42,49,53,54	-0.28	-0.64	-0.39	-0.39	0.16	-0.30	-0.40	-0.91	-0.85	0.97	-1.25	0.05	-0.33	-0.43	1.23	-0.77	-0.72	**-5.26**
1517	1,6,10,13,17,21,28,34,36,39,41,43,47,46,48,51	0.97	-0.38	0.83	1.17	-1.18	0.55	0.80	-1.61	-1.10	0.90	0.17	1.01	0.53	-0.43	1.23	-0.77	-0.72	**1.98**
1518	1,6,10,13,17,21,28,34,36,39,41,43,47,46,48,52,53,54	0.65	-0.38	0.48	0.79	-0.64	-0.30	0.56	-1.43	-0.97	0.90	-0.14	0.05	0.05	-0.43	1.23	-0.77	-0.72	**-1.11**
1519	1,6,10,13,17,21,28,34,36,39,41,43,47,49,53,54	-0.28	-0.12	-0.39	-0.31	0.21	-0.30	-0.40	-0.91	-0.85	1.00	-1.25	0.05	-0.33	-0.43	1.23	-0.77	-0.72	**-4.57**
1520	1,6,10,13,17,21,28,34,36,39,41,43,50,54	-0.38	-0.64	-0.41	-0.43	0.14	-0.30	-0.16	-1.43	-0.27	1.05	-1.49	-0.90	-0.37	-0.43	1.23	-0.77	-0.72	**-6.29**
1521	1,6,10,13,17,21,28,34,36,39,44,55	-1.31	-1.93	-0.06	-0.62	0.04	-0.73	-1.35	-1.61	-0.52	1.02	-1.64	-0.90	-0.43	-0.43	1.23	-0.77	-0.72	**-10.77**
1522	1,6,10,13,17,21,28,34,36,39,45,55	0.39	-0.90	0.78	0.40	-0.46	1.41	-0.16	-1.04	0.80	1.83	-0.94	-0.90	0.44	-0.43	1.23	-0.77	-0.72	**0.97**
1523	1,6,10,13,17,21,28,34,38,40,42,46,48,51	-0.32	-1.41	-0.30	0.81	0.11	0.98	0.08	-1.39	-0.74	-1.10	1.20	1.01	-0.51	-0.43	1.23	-0.77	1.40	**-0.15**
1524	1,6,10,13,17,21,28,34,38,40,42,46,48,52,53,54	-0.65	-1.41	-0.65	0.42	0.65	0.13	-0.16	-1.21	-0.62	-1.10	0.88	0.05	-0.99	-0.43	1.23	-0.77	1.40	**-3.24**
1525	1,6,10,13,17,21,28,34,38,40,42,47,50,54	-1.53	-1.15	-1.50	-0.63	1.53	0.98	-0.87	-1.21	0.09	-0.86	-0.41	-0.90	-1.33	-0.43	1.23	-0.77	1.40	**-6.38**
1526	1,6,10,13,17,21,28,34,38,40,42,49,53,54	-1.58	-1.41	-1.52	-0.68	1.50	0.13	-1.11	-0.69	-0.50	-0.99	-0.23	0.05	-1.36	-0.43	1.23	-0.77	1.40	**-6.96**
1527	1,6,10,13,17,21,28,34,38,41,44,55	-1.06	-2.19	-0.77	-0.91	1.37	-0.30	-1.11	-1.39	-0.17	-0.94	0.06	-0.90	-0.84	-0.43	1.23	-0.77	1.40	**-7.73**
1528	1,6,10,13,17,21,28,34,38,41,45,55	0.64	-1.15	0.07	0.11	0.88	1.84	0.08	-0.81	1.15	-0.13	0.77	-0.90	0.04	-0.43	1.23	-0.77	1.40	**4.01**
1529	1,6,10,13,17,21,28,34,38,43,47,46,48,51	-0.32	-1.67	-0.30	0.89	0.15	0.98	0.08	-1.39	-0.74	-1.06	1.20	1.01	-0.50	-0.43	1.23	-0.77	1.40	**-0.24**
1530	1,6,10,13,17,21,28,34,38,43,47,46,48,52,53,54	-0.65	-1.67	-0.65	0.50	0.69	0.13	-0.16	-1.21	-0.62	-1.06	0.88	0.05	-0.99	-0.43	1.23	-0.77	1.40	**-3.33**
1531	1,6,10,13,17,21,28,34,38,43,47,49,53,54	-1.57	-1.41	-1.52	-0.60	1.54	0.13	-1.11	-0.69	-0.50	-0.96	-0.22	0.05	-1.36	-0.43	1.23	-0.77	1.40	**-6.79**
1532	1,6,10,13,17,21,28,34,38,43,50,54	-1.67	-1.93	-1.54	-0.72	1.48	0.13	-0.87	-1.21	0.09	-0.92	-0.46	-0.90	-1.40	-0.43	1.23	-0.77	1.40	**-8.51**
1533	1,6,10,15,23,26,30,32,46,47,50,54	0.94	0.14	0.29	-1.47	0.12	1.41	0.80	-1.41	1.77	-0.11	0.61	-0.90	0.87	0.10	1.23	1.14	0.98	**6.50**
1534	1,6,10,15,23,26,30,32,46,49,53,54	0.90	-0.12	0.27	-1.52	0.09	0.55	0.56	-0.89	1.19	-0.24	0.78	0.05	0.83	0.10	1.23	1.14	0.98	**5.90**
1535	1,6,10,15,23,26,30,32,48,51	0.40	-0.64	1.02	-2.12	-1.86	1.41	1.28	-1.59	0.94	-0.34	0.27	-0.90	1.34	0.10	1.23	1.14	0.98	**2.65**
1536	1,6,10,15,23,26,30,32,48,52,53,54	0.07	-0.64	0.66	-2.50	-1.33	0.55	1.04	-1.41	1.07	-0.34	-0.05	-1.85	0.85	0.10	1.23	1.14	0.98	**-0.44**
1537	1,6,10,15,23,26,31,34,35,37,40,41,44,55	-0.88	-1.15	-0.60	-1.45	0.39	-0.73	-1.83	-0.99	0.17	-0.73	-0.19	-0.90	-0.67	-0.63	1.23	1.14	-0.72	**-8.57**
1538	1,6,10,15,23,26,31,34,35,37,40,41,45,55	0.82	-0.12	0.24	-0.43	-0.11	1.41	-0.64	-0.42	1.49	0.08	0.52	-0.90	0.21	-0.63	1.23	1.14	-0.72	**3.17**
1539	1,6,10,15,23,26,31,34,35,37,40,43,47,46,48,51	-0.14	-0.12	-0.13	0.34	-0.83	0.55	-0.64	-0.99	-0.41	-0.85	0.94	1.01	-0.33	-0.63	1.23	1.14	-0.72	**-0.57**
1540	1,6,10,15,23,26,31,34,35,37,40,43,47,46,48,52,53,54	-0.46	-0.12	-0.49	-0.04	-0.30	-0.30	-0.87	-0.82	-0.28	-0.85	0.62	0.05	-0.81	-0.63	1.23	1.14	-0.72	**-3.66**
1541	1,6,10,15,23,26,31,34,35,37,40,43,47,49,53,54	-1.39	0.14	-1.35	-1.14	0.56	-0.30	-1.83	-0.30	-0.16	-0.75	-0.48	0.05	-1.19	-0.63	1.23	1.14	-0.72	**-7.12**
1542	1,6,10,15,23,26,31,34,35,37,40,43,50,54	-1.49	-0.38	-1.37	-1.26	0.49	-0.30	-1.59	-0.82	0.42	-0.70	-0.72	-0.90	-1.23	-0.63	1.23	1.14	-0.72	**-8.84**
1543	1,6,10,15,23,26,31,34,35,37,42,46,48,51	-0.27	-0.90	-0.17	0.26	-0.88	-0.30	-0.64	-0.99	-0.41	-0.88	0.91	1.01	-0.40	-0.63	1.23	1.14	-0.72	**-2.64**
1544	1,6,10,15,23,26,31,34,35,37,42,46,48,52,53,54	-0.60	-0.90	-0.52	-0.12	-0.34	-1.16	-0.87	-0.82	-0.28	-0.88	0.59	0.05	-0.89	-0.63	1.23	1.14	-0.72	**-5.73**
1545	1,6,10,15,23,26,31,34,35,37,42,47,50,54	-1.48	-0.64	-1.37	-1.17	0.54	-0.30	-1.59	-0.82	0.42	-0.65	-0.70	-0.90	-1.22	-0.63	1.23	1.14	-0.72	**-8.87**
1546	1,6,10,15,23,26,31,34,35,37,42,49,53,54	-1.52	-0.90	-1.39	-1.22	0.51	-1.16	-1.83	-0.30	-0.16	-0.78	-0.52	0.05	-1.26	-0.63	1.23	1.14	-0.72	**-9.45**
1547	1,6,10,15,23,26,31,34,36,39,41,40,42,46,48,51	1.06	-0.12	0.96	0.52	-1.49	-0.30	0.08	-0.85	-0.44	1.09	-0.16	1.01	0.64	-0.63	1.23	1.14	-0.72	**3.01**
1548	1,6,10,15,23,26,31,34,36,39,41,40,42,46,48,52,53,54	0.74	-0.12	0.61	0.13	-0.96	-1.16	-0.16	-0.67	-0.31	1.09	-0.48	0.05	0.15	-0.63	1.23	1.14	-0.72	**-0.07**
1549	1,6,10,15,23,26,31,34,36,39,41,40,42,47,50,54	-0.15	0.14	-0.24	-0.92	-0.08	-0.30	-0.87	-0.67	0.39	1.32	-1.77	-0.90	-0.18	-0.63	1.23	1.14	-0.72	**-3.21**
1550	1,6,10,15,23,26,31,34,36,39,41,40,42,49,53,54	-0.19	-0.12	-0.26	-0.97	-0.11	-1.16	-1.11	-0.15	-0.19	1.19	-1.58	0.05	-0.22	-0.63	1.23	1.14	-0.72	**-3.80**
1551	1,6,10,15,23,26,31,34,36,39,41,43,47,46,48,51	1.06	0.14	0.96	0.60	-1.45	-0.30	0.08	-0.85	-0.44	1.12	-0.16	1.01	0.64	-0.63	1.23	1.14	-0.72	**3.44**
1552	1,6,10,15,23,26,31,34,36,39,41,43,47,46,48,52,53,54	0.74	0.14	0.61	0.21	-0.91	-1.16	-0.16	-0.67	-0.31	1.12	-0.47	0.05	0.16	-0.63	1.23	1.14	-0.72	**0.36**
1553	1,6,10,15,23,26,31,34,36,39,41,43,47,49,53,54	-0.19	0.40	-0.26	-0.89	-0.06	-1.16	-1.11	-0.15	-0.19	1.23	-1.58	0.05	-0.21	-0.63	1.23	1.14	-0.72	**-3.11**
1554	1,6,10,15,23,26,31,34,36,39,41,43,50,54	-0.29	-0.12	-0.28	-1.01	-0.13	-1.16	-0.87	-0.67	0.39	1.27	-1.82	-0.90	-0.26	-0.63	1.23	1.14	-0.72	**-4.83**
1555	1,6,10,15,23,26,31,34,36,39,44,55	-1.22	-1.41	0.07	-1.20	-0.23	-1.59	-2.07	-0.85	0.14	1.25	-1.97	-0.90	-0.32	-0.63	1.23	1.14	-0.72	**-9.30**
1556	1,6,10,15,23,26,31,34,36,39,45,55	0.48	-0.38	0.91	-0.18	-0.72	0.55	-0.87	-0.27	1.46	2.06	-1.27	-0.90	0.56	-0.63	1.23	1.14	-0.72	**2.43**
1557	1,6,10,15,23,26,31,34,38,40,42,46,48,51	-0.23	-0.90	-0.17	0.23	-0.16	0.13	-0.64	-0.63	-0.08	-0.87	0.87	1.01	-0.40	-0.63	1.23	1.14	1.40	**1.31**
1558	1,6,10,15,23,26,31,34,38,40,42,46,48,52,53,54	-0.56	-0.90	-0.52	-0.15	0.38	-0.73	-0.87	-0.45	0.04	-0.87	0.55	0.05	-0.88	-0.63	1.23	1.14	1.40	**-1.78**
1559	1,6,10,15,23,26,31,34,38,40,42,47,50,54	-1.44	-0.64	-1.37	-1.20	1.26	0.13	-1.59	-0.45	0.74	-0.64	-0.74	-0.90	-1.22	-0.63	1.23	1.14	1.40	**-4.91**
1560	1,6,10,15,23,26,31,34,38,40,42,49,53,54	-1.48	-0.90	-1.39	-1.25	1.23	-0.73	-1.83	0.07	0.16	-0.77	-0.56	0.05	-1.25	-0.63	1.23	1.14	1.40	**-5.50**
1561	1,6,10,15,23,26,31,34,38,41,44,55	-0.97	-1.67	-0.64	-1.48	1.10	-1.16	-1.83	-0.63	0.49	-0.72	-0.27	-0.90	-0.73	-0.63	1.23	1.14	1.40	**-6.26**
1562	1,6,10,15,23,26,31,34,38,41,45,55	0.73	-0.64	0.20	-0.46	0.61	0.98	-0.64	-0.05	1.81	0.09	0.44	-0.90	0.15	-0.63	1.23	1.14	1.40	**5.47**
1563	1,6,10,15,23,26,31,34,38,43,47,46,48,51	-0.23	-1.15	-0.17	0.31	-0.12	0.13	-0.64	-0.63	-0.08	-0.84	0.87	1.01	-0.39	-0.63	1.23	1.14	1.40	**1.22**
1564	1,6,10,15,23,26,31,34,38,43,47,46,48,52,53,54	-0.56	-1.15	-0.52	-0.07	0.42	-0.73	-0.87	-0.45	0.04	-0.84	0.55	0.05	-0.88	-0.63	1.23	1.14	1.40	**-1.87**
1565	1,6,10,15,23,26,31,34,38,43,47,49,53,54	-1.48	-0.90	-1.39	-1.17	1.27	-0.73	-1.83	0.07	0.16	-0.74	-0.55	0.05	-1.25	-0.63	1.23	1.14	1.40	**-5.33**
1566	1,6,10,15,23,26,31,34,38,43,50,54	-1.58	-1.41	-1.41	-1.29	1.21	-0.73	-1.59	-0.45	0.74	-0.69	-0.79	-0.90	-1.29	-0.63	1.23	1.14	1.40	**-7.05**
1567	1,6,10,15,23,26,33,37,40,41,44,55	-0.95	-2.19	-0.64	-1.47	0.03	-0.73	-1.59	-0.99	-0.14	-0.71	-0.24	-0.90	-0.69	-0.63	1.23	1.14	-0.72	**-10.20**
1568	1,6,10,15,23,26,33,37,40,41,45,55	0.75	-1.15	0.20	-0.46	-0.46	1.41	-0.40	-0.42	1.19	0.10	0.47	-0.90	0.19	-0.63	1.23	1.14	-0.72	**1.53**
1569	1,6,10,15,23,26,33,37,40,43,47,46,48,51	-0.20	-1.15	-0.16	0.32	-1.19	0.55	-0.40	-0.99	-0.71	-0.83	0.89	1.01	-0.35	-0.63	1.23	1.14	-0.72	**-2.20**
1570	1,6,10,15,23,26,33,37,40,43,47,46,48,52,53,54	-0.53	-1.15	-0.52	-0.07	-0.65	-0.30	-0.64	-0.82	-0.59	-0.83	0.57	0.05	-0.83	-0.63	1.23	1.14	-0.72	**-5.29**
1571	1,6,10,15,23,26,33,37,40,43,47,49,53,54	-1.46	-0.90	-1.38	-1.16	0.20	-0.30	-1.59	-0.30	-0.46	-0.73	-0.53	0.05	-1.21	-0.63	1.23	1.14	-0.72	**-8.76**
1572	1,6,10,15,23,26,33,37,40,43,50,54	-1.56	-1.41	-1.40	-1.28	0.13	-0.30	-1.35	-0.82	0.12	-0.69	-0.77	-0.90	-1.25	-0.63	1.23	1.14	-0.72	**-10.47**
1573	1,6,10,15,23,26,33,37,42,46,48,51	-0.34	-1.93	-0.20	0.24	-1.23	-0.30	-0.40	-0.99	-0.71	-0.87	0.85	1.01	-0.42	-0.63	1.23	1.14	-0.72	**-4.28**
1574	1,6,10,15,23,26,33,37,42,46,48,52,53,54	-0.66	-1.93	-0.55	-0.14	-0.70	-1.16	-0.64	-0.82	-0.59	-0.87	0.53	0.05	-0.91	-0.63	1.23	1.14	-0.72	**-7.36**
1575	1,6,10,15,23,26,33,37,42,47,50,54	-1.55	-1.67	-1.40	-1.19	0.18	-0.30	-1.35	-0.82	0.12	-0.64	-0.75	-0.90	-1.24	-0.63	1.23	1.14	-0.72	**-10.50**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
1576	1,6,10,15,23,26,33,37,42,49,53,54	-1.59	-1.93	-1.42	-1.24	0.15	-1.16	-1.59	-0.30	-0.46	-0.76	-0.57	0.05	-1.28	-0.63	1.23	1.14	-0.72	**-11.09**
1577	1,6,10,15,23,27,28,31,30,32,46,47,50,54	0.98	0.14	0.25	-1.44	0.32	1.41	0.80	-1.41	1.42	0.26	0.36	-0.90	0.83	0.10	1.23	-0.77	0.98	**4.55**
1578	1,6,10,15,23,27,28,31,30,32,46,49,53,54	0.93	-0.12	0.23	-1.50	0.30	0.55	0.56	-0.89	0.84	0.13	0.52	0.05	0.80	0.10	1.23	-0.77	0.98	**3.94**
1579	1,6,10,15,23,27,28,31,30,32,48,51	0.43	-0.64	0.98	-2.09	-1.66	1.41	1.28	-1.59	0.59	0.03	0.01	-0.90	1.31	0.10	1.23	-0.77	0.98	**0.69**
1580	1,6,10,15,23,27,28,31,30,32,48,52,53,54	0.11	-0.64	0.62	-2.48	-1.12	0.55	1.04	-1.41	0.71	0.03	-0.31	-1.85	0.82	0.10	1.23	-0.77	0.98	**-2.40**
1581	1,6,10,15,23,27,28,31,33,37,40,41,44,55	-0.91	-1.67	-0.68	-1.45	0.23	-0.73	-1.59	-0.99	-0.49	-0.34	-0.50	-0.90	-0.72	-0.63	1.23	-0.77	-0.72	**-11.64**
1582	1,6,10,15,23,27,28,31,33,37,40,41,45,55	0.79	-0.64	0.16	-0.43	-0.26	1.41	-0.40	-0.42	0.83	0.47	0.21	-0.90	0.16	-0.63	1.23	-0.77	-0.72	**0.10**
1583	1,6,10,15,23,27,28,31,33,37,40,43,47,46,48,51	-0.17	-0.64	-0.20	0.35	-0.98	0.55	-0.40	-0.99	-1.06	-0.46	0.63	1.01	-0.38	-0.63	1.23	-0.77	-0.72	**-3.64**
1584	1,6,10,15,23,27,28,31,33,37,40,43,47,46,48,52,53,54	-0.49	-0.64	-0.56	-0.04	-0.45	-0.30	-0.64	-0.82	-0.94	-0.46	0.31	0.05	-0.87	-0.63	1.23	-0.77	-0.72	**-6.73**
1585	1,6,10,15,23,27,28,31,33,37,40,43,47,49,53,54	-1.42	-0.38	-1.42	-1.14	0.40	-0.30	-1.59	-0.30	-0.82	-0.36	-0.79	0.05	-1.24	-0.63	1.23	-0.77	-0.72	**-10.20**
1586	1,6,10,15,23,27,28,31,33,37,40,43,50,54	-1.52	-0.90	-1.44	-1.26	0.34	-0.30	-1.35	-0.82	-0.23	-0.32	-1.03	-0.90	-1.28	-0.63	1.23	-0.77	-0.72	**-11.91**
1587	1,6,10,15,23,27,28,31,33,37,42,46,48,51	-0.30	-1.41	-0.24	0.27	-1.03	-0.30	-0.40	-0.99	-1.06	-0.50	0.60	1.01	-0.46	-0.63	1.23	-0.77	-0.72	**-5.72**
1588	1,6,10,15,23,27,28,31,33,37,42,46,48,52,53,54	-0.63	-1.41	-0.59	-0.12	-0.49	-1.16	-0.64	-0.82	-0.94	-0.50	0.28	0.05	-0.94	-0.63	1.23	-0.77	-0.72	**-8.80**
1589	1,6,10,15,23,27,28,31,33,37,42,47,50,54	-1.51	-1.15	-1.44	-1.17	0.39	-0.30	-1.35	-0.82	-0.23	-0.27	-1.01	-0.90	-1.28	-0.63	1.23	-0.77	-0.72	**-11.94**
1590	1,6,10,15,23,27,28,31,33,37,42,49,53,54	-1.55	-1.41	-1.46	-1.22	0.36	-1.16	-1.59	-0.30	-0.82	-0.39	-0.83	0.05	-1.31	-0.63	1.23	-0.77	-0.72	**-12.53**
1591	1,6,10,15,23,27,28,34,35,37,40,41,44,55	-0.94	-1.67	-0.67	-1.43	0.59	-0.73	-1.83	-0.99	-0.19	-0.38	-0.52	-0.90	-0.76	-0.63	1.23	-0.77	-0.72	**-11.33**
1592	1,6,10,15,23,27,28,34,35,37,40,41,45,55	0.76	-0.64	0.17	-0.41	0.10	1.41	-0.64	-0.42	1.14	0.43	0.18	-0.90	0.11	-0.63	1.23	-0.77	-0.72	**0.40**
1593	1,6,10,15,23,27,28,34,35,37,40,43,47,46,48,51	-0.20	-0.64	-0.19	0.37	-0.63	0.55	-0.64	-0.99	-0.76	-0.51	0.61	1.01	-0.43	-0.63	1.23	-0.77	-0.72	**-3.34**
1594	1,6,10,15,23,27,28,34,35,37,40,43,47,46,48,52,53,54	-0.52	-0.64	-0.55	-0.02	-0.09	-0.30	-0.87	-0.82	-0.64	-0.51	0.29	0.05	-0.91	-0.63	1.23	-0.77	-0.72	**-6.42**
1595	1,6,10,15,23,27,28,34,35,37,40,43,47,49,53,54	-1.45	-0.38	-1.42	-1.12	0.76	-0.30	-1.83	-0.30	-0.51	-0.40	-0.82	0.05	-1.28	-0.63	1.23	-0.77	-0.72	**-9.89**
1596	1,6,10,15,23,27,28,34,35,37,40,43,50,54	-1.55	-0.90	-1.44	-1.23	0.70	-0.30	-1.59	-0.82	0.07	-0.36	-1.06	-0.90	-1.33	-0.63	1.23	-0.77	-0.72	**-11.61**
1597	1,6,10,15,23,27,28,34,35,37,42,46,48,51	-0.33	-1.41	-0.23	0.29	-0.67	-0.30	-0.64	-0.99	-0.76	-0.54	0.57	1.01	-0.50	-0.63	1.23	-0.77	-0.72	**-5.41**
1598	1,6,10,15,23,27,28,34,35,37,42,46,48,52,53,54	-0.66	-1.41	-0.59	-0.10	-0.13	-1.16	-0.87	-0.82	-0.64	-0.54	0.25	0.05	-0.99	-0.63	1.23	-0.77	-0.72	**-8.49**
1599	1,6,10,15,23,27,28,34,35,37,42,47,50,54	-1.54	-1.15	-1.44	-1.14	0.75	-0.30	-1.59	-0.82	0.07	-0.31	-1.04	-0.90	-1.32	-0.63	1.23	-0.77	-0.72	**-11.63**
1600	1,6,10,15,23,27,28,34,35,37,42,49,53,54	-1.58	-1.41	-1.46	-1.20	0.72	-1.16	-1.83	-0.30	-0.51	-0.44	-0.85	0.05	-1.36	-0.63	1.23	-0.77	-0.72	**-12.22**
1601	1,6,10,15,23,27,28,34,36,39,41,40,42,46,48,51	1.00	-0.64	0.90	0.55	-1.29	-0.30	0.08	-0.85	-0.79	1.43	-0.50	1.01	0.54	-0.63	1.23	-0.77	-0.72	**0.25**
1602	1,6,10,15,23,27,28,34,36,39,41,40,42,46,48,52,53,54	0.68	-0.64	0.54	0.16	-0.75	-1.16	-0.16	-0.67	-0.67	1.43	-0.82	0.05	0.06	-0.63	1.23	-0.77	-0.72	**-2.84**
1603	1,6,10,15,23,27,28,34,36,39,41,40,42,47,50,54	-0.21	-0.38	-0.31	-0.89	0.13	-0.30	-0.87	-0.67	0.04	1.67	-2.10	-0.90	-0.28	-0.63	1.23	-0.77	-0.72	**-5.98**
1604	1,6,10,15,23,27,28,34,36,39,41,40,42,49,53,54	-0.25	-0.64	-0.33	-0.94	0.10	-1.16	-1.11	-0.15	-0.54	1.54	-1.92	0.05	-0.32	-0.63	1.23	-0.77	-0.72	**-6.56**
1605	1,6,10,15,23,27,28,34,36,39,41,43,47,46,48,51	1.01	-0.38	0.90	0.63	-1.24	-0.30	0.08	-0.85	-0.79	1.47	-0.49	1.01	0.54	-0.63	1.23	-0.77	-0.72	**0.68**
1606	1,6,10,15,23,27,28,34,36,39,41,43,47,46,48,52,53,54	0.68	-0.38	0.54	0.24	-0.71	-1.16	-0.16	-0.67	-0.67	1.47	-0.81	0.05	0.06	-0.63	1.23	-0.77	-0.72	**-2.41**
1607	1,6,10,15,23,27,28,34,36,39,41,43,47,49,53,54	-0.25	-0.12	-0.33	-0.86	0.14	-1.16	-1.11	-0.15	-0.54	1.57	-1.91	0.05	-0.31	-0.63	1.23	-0.77	-0.72	**-5.87**
1608	1,6,10,15,23,27,28,34,36,39,41,43,50,54	-0.35	-0.64	-0.35	-0.98	0.08	-1.16	-0.87	-0.67	0.04	1.61	-2.16	-0.90	-0.35	-0.63	1.23	-0.77	-0.72	**-7.59**
1609	1,6,10,15,23,27,28,34,36,39,44,55	-1.28	-1.93	0.00	-1.17	-0.03	-1.59	-2.07	-0.85	-0.22	1.59	-2.31	-0.90	-0.42	-0.63	1.23	-0.77	-0.72	**-12.07**
1610	1,6,10,15,23,27,28,34,36,39,45,55	0.42	-0.90	0.84	-0.15	-0.52	0.55	-0.87	-0.27	1.11	2.40	-1.60	-0.90	0.46	-0.63	1.23	-0.77	-0.72	**-0.33**
1611	1,6,10,15,23,27,28,34,38,40,42,46,48,51	-0.29	-1.41	-0.23	0.26	0.05	0.13	-0.64	-0.63	-0.44	-0.53	0.53	1.01	-0.49	-0.63	1.23	-0.77	1.40	**-1.45**
1612	1,6,10,15,23,27,28,34,38,40,42,46,48,52,53,54	-0.62	-1.41	-0.59	-0.13	0.58	-0.73	-0.87	-0.45	-0.32	-0.53	0.21	0.05	-0.98	-0.63	1.23	-0.77	1.40	**-4.54**
1613	1,6,10,15,23,27,28,34,38,40,42,47,50,54	-1.50	-1.15	-1.44	-1.17	1.46	0.13	-1.59	-0.45	0.39	-0.30	-1.08	-0.90	-1.31	-0.63	1.23	-0.77	1.40	**-7.68**
1614	1,6,10,15,23,27,28,34,38,40,42,49,53,54	-1.54	-1.41	-1.46	-1.23	1.44	-0.73	-1.83	0.07	-0.19	-0.42	-0.89	0.05	-1.35	-0.63	1.23	-0.77	1.40	**-8.27**
1615	1,6,10,15,23,27,28,34,38,41,44,55	-1.03	-2.19	-0.71	-1.46	1.31	-1.16	-1.83	-0.63	0.14	-0.37	-0.60	-0.90	-0.83	-0.63	1.23	-0.77	1.40	**-9.03**
1616	1,6,10,15,23,27,28,34,38,41,45,55	0.67	-1.15	0.13	-0.44	0.82	0.98	-0.64	-0.05	1.46	0.44	0.10	-0.90	0.05	-0.63	1.23	-0.77	1.40	**2.71**
1617	1,6,10,15,23,27,28,34,38,43,47,46,48,51	-0.29	-1.67	-0.23	0.34	0.09	0.13	-0.64	-0.63	-0.44	-0.49	0.54	1.01	-0.49	-0.63	1.23	-0.77	1.40	**-1.55**
1618	1,6,10,15,23,27,28,34,38,43,47,46,48,52,53,54	-0.61	-1.67	-0.59	-0.05	0.63	-0.73	-0.87	-0.45	-0.32	-0.49	0.22	0.05	-0.97	-0.63	1.23	-0.77	1.40	**-4.63**
1619	1,6,10,15,23,27,28,34,38,43,47,49,53,54	-1.54	-1.41	-1.45	-1.15	1.48	-0.73	-1.83	0.07	-0.19	-0.39	-0.89	0.05	-1.35	-0.63	1.23	-0.77	1.40	**-8.10**
1620	1,6,10,15,23,27,28,34,38,43,50,54	-1.64	-1.93	-1.47	-1.26	1.41	-0.73	-1.59	-0.45	0.39	-0.35	-1.13	-0.90	-1.39	-0.63	1.23	-0.77	1.40	**-9.82**
1621	1,6,10,16,18,19,22,24,29,36,35,37,40,41,44,55	0.70	-0.90	0.50	-1.19	-0.23	0.13	-0.64	-2.11	-0.18	-0.51	0.43	-0.90	0.94	2.17	1.23	-0.77	-0.72	**-2.05**
1622	1,6,10,16,18,19,22,24,29,36,35,37,40,41,45,55	2.40	0.14	1.34	-0.17	-0.72	2.27	0.56	-1.54	1.15	0.30	1.14	-0.90	1.82	2.17	1.23	-0.77	-0.72	**9.69**
1623	1,6,10,16,18,19,22,24,29,36,35,37,40,43,47,46,48,51	1.45	0.14	0.97	0.61	-1.45	1.41	0.56	-2.11	-0.75	-0.63	1.56	1.01	1.28	2.17	1.23	-0.77	-0.72	**5.95**
1624	1,6,10,16,18,19,22,24,29,36,35,37,40,43,47,46,48,52,53,54	1.12	0.14	0.62	0.22	-0.91	0.55	0.32	-1.94	-0.63	-0.63	1.24	0.05	0.79	2.17	1.23	-0.77	-0.72	**2.86**
1625	1,6,10,16,18,19,22,24,29,36,35,37,40,43,47,49,53,54	0.19	0.40	-0.25	-0.88	-0.06	0.55	-0.64	-1.41	-0.50	-0.53	0.14	0.05	0.42	2.17	1.23	-0.77	-0.72	**-0.60**
1626	1,6,10,16,18,19,22,24,29,36,35,37,40,43,50,54	0.09	-0.12	-0.27	-1.00	-0.12	0.55	-0.40	-1.94	0.08	-0.48	-0.10	-0.90	0.38	2.17	1.23	-0.77	-0.72	**-2.32**
1627	1,6,10,16,18,19,22,24,29,36,35,37,42,46,48,51	1.31	-0.64	0.93	0.53	-1.49	0.55	0.56	-2.11	-0.75	-0.66	1.53	1.01	1.20	2.17	1.23	-0.77	-0.72	**3.88**
1628	1,6,10,16,18,19,22,24,29,36,35,37,42,46,48,52,53,54	0.99	-0.64	0.58	0.14	-0.95	-0.30	0.32	-1.94	-0.63	-0.66	1.21	0.05	0.72	2.17	1.23	-0.77	-0.72	**0.79**
1629	1,6,10,16,18,19,22,24,29,36,35,37,42,47,50,54	0.10	-0.38	-0.27	-0.90	-0.07	0.55	-0.40	-1.94	0.08	-0.43	-0.08	-0.90	0.38	2.17	1.23	-0.77	-0.72	**-2.35**
1630	1,6,10,16,18,19,22,24,29,36,35,37,42,49,53,54	0.06	-0.64	-0.29	-0.96	-0.10	-0.30	-0.64	-1.41	-0.50	-0.56	0.10	0.05	0.35	2.17	1.23	-0.77	-0.72	**-2.93**
1631	1,6,10,16,18,19,22,24,29,36,38,40,42,46,48,51	1.35	-0.38	0.93	0.50	-0.77	0.98	0.56	-1.75	-0.43	-0.65	1.48	1.01	1.21	2.17	1.23	-0.77	1.40	**8.09**
1632	1,6,10,16,18,19,22,24,29,36,38,40,42,46,48,52,53,54	1.03	-0.38	0.58	0.11	-0.24	0.13	0.32	-1.57	-0.30	-0.65	1.17	0.05	0.73	2.17	1.23	-0.77	1.40	**5.00**
1633	1,6,10,16,18,19,22,24,29,36,38,40,42,47,50,54	0.14	-0.12	-0.27	-0.94	0.64	0.98	-0.40	-1.57	0.40	-0.42	-0.12	-0.90	0.39	2.17	1.23	-0.77	1.40	**1.87**
1634	1,6,10,16,18,19,22,24,29,36,38,40,42,49,53,54	0.10	-0.38	-0.29	-0.99	0.61	0.13	-0.64	-1.05	-0.18	-0.55	0.06	0.05	0.35	2.17	1.23	-0.77	1.40	**1.28**
1635	1,6,10,16,18,19,22,24,29,36,38,41,44,55	0.61	-1.15	0.46	-1.22	0.49	-0.30	-0.64	-1.75	0.15	-0.49	0.35	-0.90	0.88	2.17	1.23	-0.77	1.40	**0.52**
1636	1,6,10,16,18,19,22,24,29,36,38,41,45,55	2.31	-0.12	1.30	-0.20	0.00	1.84	0.56	-1.17	1.47	0.32	1.06	-0.90	1.75	2.17	1.23	-0.77	1.40	**12.25**
1637	1,6,10,16,18,19,22,24,29,36,38,43,47,46,48,51	1.35	-0.64	0.94	0.58	-0.73	0.98	0.56	-1.75	-0.43	-0.62	1.49	1.01	1.21	2.17	1.23	-0.77	1.40	**8.00**
1638	1,6,10,16,18,19,22,24,29,36,38,43,47,46,48,52,53,54	1.03	-0.64	0.58	0.19	-0.19	0.13	0.32	-1.57	-0.30	-0.62	1.17	0.05	0.73	2.17	1.23	-0.77	1.40	**4.91**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
1639	1,6,10,16,18,19,22,24,29,36,38,43,47,49,53,54	0.10	-0.38	-0.29	-0.91	0.66	0.13	-0.64	-1.05	-0.18	-0.51	0.07	0.05	0.36	2.17	1.23	-0.77	1.40	**1.45**
1640	1,6,10,16,18,19,22,24,29,36,38,43,50,54	0.00	-0.90	-0.31	-1.03	0.59	0.13	-0.40	-1.57	0.40	-0.47	-0.17	-0.90	0.31	2.17	1.23	-0.77	1.40	**-0.27**
1641	1,6,10,16,18,19,22,24,29,39,41,40,42,46,48,51	1.55	-0.64	1.77	0.16	-2.11	-0.30	1.28	-1.97	-0.78	0.67	0.22	1.01	1.69	2.17	1.23	-0.77	-0.72	**4.44**
1642	1,6,10,16,18,19,22,24,29,39,41,40,42,46,48,52,53,54	1.23	-0.64	1.41	-0.23	-1.57	-1.16	1.04	-1.79	-0.66	0.67	-0.10	0.05	1.20	2.17	1.23	-0.77	-0.72	**1.36**
1643	1,6,10,16,18,19,22,24,29,39,41,40,42,47,50,54	0.34	-0.38	0.56	-1.28	-0.69	-0.30	0.32	-1.79	0.05	0.90	-1.39	-0.90	0.87	2.17	1.23	-0.77	-0.72	**-1.78**
1644	1,6,10,16,18,19,22,24,29,39,41,40,42,49,53,54	0.30	-0.64	0.54	-1.33	-0.72	-1.16	0.08	-1.27	-0.53	0.78	-1.21	0.05	0.83	2.17	1.23	-0.77	-0.72	**-2.37**
1645	1,6,10,16,18,19,22,24,29,39,41,43,47,46,48,51	1.56	-0.38	1.77	0.24	-2.07	-0.30	1.28	-1.97	-0.78	0.70	0.22	1.01	1.69	2.17	1.23	-0.77	-0.72	**4.87**
1646	1,6,10,16,18,19,22,24,29,39,41,43,47,46,48,52,53,54	1.23	-0.38	1.41	-0.15	-1.53	-1.16	1.04	-1.79	-0.66	0.70	-0.10	0.05	1.21	2.17	1.23	-0.77	-0.72	**1.78**
1647	1,6,10,16,18,19,22,24,29,39,41,43,47,49,53,54	0.30	-0.12	0.54	-1.25	-0.68	-1.16	0.08	-1.27	-0.53	0.81	-1.20	0.05	0.84	2.17	1.23	-0.77	-0.72	**-1.68**
1648	1,6,10,16,18,19,22,24,29,39,41,43,50,54	0.20	-0.64	0.53	-1.37	-0.74	-1.16	0.32	-1.79	0.05	0.85	-1.44	-0.90	0.79	2.17	1.23	-0.77	-0.72	**-3.40**
1649	1,6,10,16,18,19,22,24,29,39,44,55	-0.73	-1.93	0.87	-1.56	-0.85	-1.59	-0.87	-1.97	-0.21	0.83	-1.60	-0.90	0.73	2.17	1.23	-0.77	-0.72	**-7.88**
1650	1,6,10,16,18,19,22,24,29,39,45,55	0.97	-0.90	1.71	-0.54	-1.34	0.55	0.32	-1.39	1.12	1.64	-0.89	-0.90	1.61	2.17	1.23	-0.77	-0.72	**3.86**
1651	1,6,10,16,18,19,22,25,29,36,35,37,40,41,44,55	0.49	-1.15	0.44	-1.62	0.10	0.13	-0.40	-2.09	-0.61	-0.44	0.07	-0.90	0.88	2.20	1.23	-0.77	-0.72	**-3.18**
1652	1,6,10,16,18,19,22,25,29,36,35,37,40,41,45,55	2.19	-0.12	1.28	-0.60	-0.39	2.27	0.80	-1.51	0.71	0.37	0.77	-0.90	1.76	2.20	1.23	-0.77	-0.72	**8.56**
1653	1,6,10,16,18,19,22,25,29,36,35,37,40,43,47,46,48,51	1.23	-0.12	0.91	0.18	-1.12	1.41	0.80	-2.09	-1.19	-0.56	1.20	1.01	1.22	2.20	1.23	-0.77	-0.72	**4.82**
1654	1,6,10,16,18,19,22,25,29,36,35,37,40,43,47,46,48,52,53,54	0.90	-0.12	0.56	-0.21	-0.58	0.55	0.56	-1.91	-1.07	-0.56	0.88	0.05	0.73	2.20	1.23	-0.77	-0.72	**1.73**
1655	1,6,10,16,18,19,22,25,29,36,35,37,40,43,47,49,53,54	-0.02	0.14	-0.31	-1.31	0.27	0.55	-0.40	-1.39	-0.94	-0.46	-0.23	0.05	0.36	2.20	1.23	-0.77	-0.72	**-1.73**
1656	1,6,10,16,18,19,22,25,29,36,35,37,40,43,50,54	-0.12	-0.38	-0.33	-1.43	0.21	0.55	-0.16	-1.91	-0.36	-0.41	-0.47	-0.90	0.32	2.20	1.23	-0.77	-0.72	**-3.45**
1657	1,6,10,16,18,19,22,25,29,36,35,37,42,46,48,51	1.10	-0.90	0.88	0.10	-1.16	0.55	0.80	-2.09	-1.19	-0.59	1.16	1.01	1.14	2.20	1.23	-0.77	-0.72	**2.75**
1658	1,6,10,16,18,19,22,25,29,36,35,37,42,46,48,52,53,54	0.77	-0.90	0.52	-0.29	-0.62	-0.30	0.56	-1.91	-1.07	-0.59	0.84	0.05	0.66	2.20	1.23	-0.77	-0.72	**-0.34**
1659	1,6,10,16,18,19,22,25,29,36,35,37,42,47,50,54	-0.11	-0.64	-0.33	-1.34	0.26	0.55	-0.16	-1.91	-0.36	-0.36	-0.45	-0.90	0.32	2.20	1.23	-0.77	-0.72	**-3.48**
1660	1,6,10,16,18,19,22,25,29,36,35,37,42,49,53,54	-0.16	-0.90	-0.35	-1.39	0.23	-0.30	-0.40	-1.39	-0.94	-0.49	-0.26	0.05	0.29	2.20	1.23	-0.77	-0.72	**-4.06**
1661	1,6,10,16,18,19,22,25,29,36,38,40,42,46,48,51	1.14	-0.64	0.88	0.07	-0.44	0.98	0.80	-1.72	-0.86	-0.58	1.12	1.01	1.15	2.20	1.23	-0.77	1.40	**6.96**
1662	1,6,10,16,18,19,22,25,29,36,38,40,42,46,48,52,53,54	0.81	-0.64	0.52	-0.32	0.10	0.13	0.56	-1.55	-0.74	-0.58	0.80	0.05	0.67	2.20	1.23	-0.77	1.40	**3.87**
1663	1,6,10,16,18,19,22,25,29,36,38,40,42,47,50,54	-0.07	-0.38	-0.33	-1.37	0.98	0.98	-0.16	-1.55	-0.04	-0.35	-0.49	-0.90	0.33	2.20	1.23	-0.77	1.40	**0.73**
1664	1,6,10,16,18,19,22,25,29,36,38,40,42,49,53,54	-0.12	-0.64	-0.35	-1.42	0.95	0.13	-0.40	-1.02	-0.62	-0.48	-0.30	0.05	0.30	2.20	1.23	-0.77	1.40	**0.15**
1665	1,6,10,16,18,19,22,25,29,36,38,41,44,55	0.40	-1.41	0.40	-1.65	0.82	-0.30	-0.40	-1.72	-0.29	-0.42	-0.01	-0.90	0.82	2.20	1.23	-0.77	1.40	**-0.61**
1666	1,6,10,16,18,19,22,25,29,36,38,41,45,55	2.10	-0.38	1.24	-0.63	0.33	1.84	0.80	-1.15	1.03	0.39	0.69	-0.90	1.70	2.20	1.23	-0.77	1.40	**11.12**
1667	1,6,10,16,18,19,22,25,29,36,38,43,47,46,48,51	1.14	-0.90	0.88	0.15	-0.40	0.98	0.80	-1.72	-0.86	-0.55	1.12	1.01	1.16	2.20	1.23	-0.77	1.40	**6.87**
1668	1,6,10,16,18,19,22,25,29,36,38,43,47,46,48,52,53,54	0.81	-0.90	0.52	-0.24	0.14	0.13	0.56	-1.55	-0.74	-0.55	0.81	0.05	0.67	2.20	1.23	-0.77	1.40	**3.78**
1669	1,6,10,16,18,19,22,25,29,36,38,43,47,49,53,54	-0.11	-0.64	-0.35	-1.34	0.99	0.13	-0.40	-1.02	-0.62	-0.44	-0.30	0.05	0.30	2.20	1.23	-0.77	1.40	**0.32**
1670	1,6,10,16,18,19,22,25,29,36,38,43,50,54	-0.21	-1.15	-0.37	-1.46	0.93	0.13	-0.16	-1.55	-0.04	-0.40	-0.54	-0.90	0.26	2.20	1.23	-0.77	1.40	**-1.40**
1671	1,6,10,16,18,19,22,25,29,39,41,40,42,46,48,51	1.34	-0.90	1.71	-0.28	-1.78	-0.30	1.52	-1.95	-1.22	0.74	-0.15	1.01	1.63	2.20	1.23	-0.77	-0.72	**3.31**
1672	1,6,10,16,18,19,22,25,29,39,41,40,42,46,48,52,53,54	1.01	-0.90	1.35	-0.66	-1.24	-1.16	1.28	-1.77	-1.10	0.74	-0.47	0.05	1.15	2.20	1.23	-0.77	-0.72	**0.22**
1673	1,6,10,16,18,19,22,25,29,39,41,40,42,47,50,54	0.13	-0.64	0.50	-1.71	-0.36	-0.30	0.56	-1.77	-0.39	0.97	-1.76	-0.90	0.81	2.20	1.23	-0.77	-0.72	**-2.91**
1674	1,6,10,16,18,19,22,25,29,39,41,40,42,49,53,54	0.09	-0.90	0.48	-1.76	-0.39	-1.16	0.32	-1.25	-0.97	0.84	-1.57	0.05	0.77	2.20	1.23	-0.77	-0.72	**-3.50**
1675	1,6,10,16,18,19,22,25,29,39,41,43,47,46,48,51	1.34	-0.64	1.71	-0.20	-1.73	-0.30	1.52	-1.95	-1.22	0.77	-0.14	1.01	1.63	2.20	1.23	-0.77	-0.72	**3.74**
1676	1,6,10,16,18,19,22,25,29,39,41,43,47,46,48,52,53,54	1.01	-0.64	1.35	-0.58	-1.20	-1.16	1.28	-1.77	-1.10	0.77	-0.46	0.05	1.15	2.20	1.23	-0.77	-0.72	**0.65**
1677	1,6,10,16,18,19,22,25,29,39,41,43,47,49,53,54	0.09	-0.38	0.49	-1.68	-0.34	-1.16	0.32	-1.25	-0.97	0.88	-1.57	0.05	0.78	2.20	1.23	-0.77	-0.72	**-2.81**
1678	1,6,10,16,18,19,22,25,29,39,41,43,50,54	-0.01	-0.90	0.47	-1.80	-0.41	-1.16	0.56	-1.77	-0.39	0.92	-1.81	-0.90	0.73	2.20	1.23	-0.77	-0.72	**-4.53**
1679	1,6,10,16,18,19,22,25,29,39,44,55	-0.95	-2.19	0.82	-1.99	-0.52	-1.59	-0.64	-1.95	-0.64	0.90	-1.96	-0.90	0.67	2.20	1.23	-0.77	-0.72	**-9.01**
1680	1,6,10,16,18,19,22,25,29,39,45,55	0.75	-1.15	1.66	-0.98	-1.01	0.55	0.56	-1.37	0.68	1.71	-1.25	-0.90	1.55	2.20	1.23	-0.77	-0.72	**2.73**
1681	1,6,10,16,18,21,27,26,30,32,46,47,50,54	1.02	0.66	0.26	-0.96	0.43	2.27	1.28	-2.17	1.47	-0.55	1.26	-0.90	0.92	0.92	1.23	1.14	0.98	**9.24**
1682	1,6,10,16,18,21,27,26,30,32,46,49,53,54	0.98	0.40	0.24	-1.01	0.40	1.41	1.04	-1.65	0.88	-0.68	1.42	0.05	0.88	0.92	1.23	1.14	0.98	**8.63**
1683	1,6,10,16,18,21,27,26,30,32,48,51	0.48	-0.12	0.98	-1.61	-1.55	2.27	1.75	-2.35	0.64	-0.79	0.91	-0.90	1.39	0.92	1.23	1.14	0.98	**5.38**
1684	1,6,10,16,18,21,27,26,30,32,48,52,53,54	0.15	-0.12	0.63	-1.99	-1.02	1.41	1.52	-2.17	0.76	-0.79	0.59	-1.85	0.91	0.92	1.23	1.14	0.98	**2.29**
1685	1,6,10,16,18,21,27,26,31,34,35,37,40,41,44,55	-0.80	-0.64	-0.64	-0.94	0.69	0.13	-1.35	-1.76	-0.14	-1.17	0.46	-0.90	-0.61	0.19	1.23	1.14	-0.72	**-5.84**
1686	1,6,10,16,18,21,27,26,31,34,35,37,40,41,45,55	0.90	0.40	0.20	0.07	0.20	2.27	-0.16	-1.18	1.18	-0.36	1.16	-0.90	0.26	0.19	1.23	1.14	-0.72	**5.90**
1687	1,6,10,16,18,21,27,26,31,34,35,37,40,43,47,46,48,51	-0.05	0.40	-0.16	0.85	-0.52	1.41	-0.16	-1.76	-0.71	-1.30	1.59	1.01	-0.28	0.19	1.23	1.14	-0.72	**2.16**
1688	1,6,10,16,18,21,27,26,31,34,35,37,40,43,47,46,48,52,53,54	-0.38	0.40	-0.52	0.47	0.01	0.55	-0.40	-1.58	-0.59	-1.30	1.27	0.05	-0.76	0.19	1.23	1.14	-0.72	**-0.92**
1689	1,6,10,16,18,21,27,26,31,34,35,37,40,43,47,49,53,54	-1.31	0.66	-1.38	-0.63	0.87	0.55	-1.35	-1.06	-0.47	-1.19	0.16	0.05	-1.13	0.19	1.23	1.14	-0.72	**-4.39**
1690	1,6,10,16,18,21,27,26,31,34,35,37,40,43,50,54	-1.41	0.14	-1.40	-0.75	0.80	0.55	-1.11	-1.58	0.12	-1.15	-0.08	-0.90	-1.18	0.19	1.23	1.14	-0.72	**-6.11**
1691	1,6,10,16,18,21,27,26,31,34,35,37,42,46,48,51	-0.19	-0.38	-0.20	0.77	-0.57	0.55	-0.16	-1.76	-0.71	-1.33	1.55	1.01	-0.35	0.19	1.23	1.14	-0.72	**0.09**
1692	1,6,10,16,18,21,27,26,31,34,35,37,42,46,48,52,53,54	-0.51	-0.38	-0.55	0.39	-0.03	-0.30	-0.40	-1.58	-0.59	-1.33	1.23	0.05	-0.83	0.19	1.23	1.14	-0.72	**-3.00**
1693	1,6,10,16,18,21,27,26,31,34,35,37,42,47,50,54	-1.40	-0.12	-1.40	-0.66	0.85	0.55	-1.11	-1.58	0.12	-1.10	-0.06	-0.90	-1.17	0.19	1.23	1.14	-0.72	**-6.14**
1694	1,6,10,16,18,21,27,26,31,34,35,37,42,49,53,54	-1.44	-0.38	-1.42	-0.71	0.82	-0.30	-1.35	-1.06	-0.47	-1.22	0.13	0.05	-1.21	0.19	1.23	1.14	-0.72	**-6.72**
1695	1,6,10,16,18,21,27,26,31,34,36,39,41,40,42,46,48,51	1.15	0.40	0.93	1.03	-1.18	0.55	0.56	-1.61	-0.74	0.65	0.48	1.01	0.69	0.19	1.23	1.14	-0.72	**5.75**
1696	1,6,10,16,18,21,27,26,31,34,36,39,41,40,42,46,48,52,53,54	0.82	0.40	0.57	0.64	-0.65	-0.30	0.32	-1.43	-0.62	0.65	0.16	0.05	0.21	0.19	1.23	1.14	-0.72	**2.66**
1697	1,6,10,16,18,21,27,26,31,34,36,39,41,40,42,47,50,54	-0.06	0.66	-0.28	-0.41	0.23	0.55	-0.40	-1.43	0.09	0.88	-1.12	-0.90	-0.13	0.19	1.23	1.14	-0.72	**-0.48**
1698	1,6,10,16,18,21,27,26,31,34,36,39,41,40,42,49,53,54	-0.11	0.40	-0.29	-0.46	0.20	-0.30	-0.64	-0.91	-0.50	0.75	-0.94	0.05	-0.16	0.19	1.23	1.14	-0.72	**-1.06**
1699	1,6,10,16,18,21,27,26,31,34,36,39,41,43,47,46,48,51	1.15	0.66	0.93	1.11	-1.14	0.55	0.56	-1.61	-0.74	0.68	0.49	1.01	0.70	0.19	1.23	1.14	-0.72	**6.18**
1700	1,6,10,16,18,21,27,26,31,34,36,39,41,43,47,46,48,52,53,54	0.82	0.66	0.57	0.72	-0.60	-0.30	0.32	-1.43	-0.62	0.68	0.17	0.05	0.21	0.19	1.23	1.14	-0.72	**3.09**
1701	1,6,10,16,18,21,27,26,31,34,36,39,41,43,47,49,53,54	-0.11	0.92	-0.29	-0.38	0.25	-0.30	-0.64	-0.91	-0.50	0.78	-0.93	0.05	-0.16	0.19	1.23	1.14	-0.72	**-0.38**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
1702	1,6,10,16,18,21,27,26,31,34,36,39,41,43,50,54	-0.21	0.40	-0.31	-0.50	0.18	-0.30	-0.40	-1.43	0.09	0.83	-1.18	-0.90	-0.20	0.19	1.23	1.14	-0.72	**-2.09**
1703	1,6,10,16,18,21,27,26,31,34,36,39,44,55	-1.14	-0.90	0.04	-0.69	0.08	-0.73	-1.59	-1.61	-0.17	0.80	-1.33	-0.90	-0.27	0.19	1.23	1.14	-0.72	**-6.57**
1704	1,6,10,16,18,21,27,26,31,34,36,39,45,55	0.56	0.14	0.88	0.33	-0.41	1.41	-0.40	-1.04	1.15	1.61	-0.62	-0.90	0.61	0.19	1.23	1.14	-0.72	**5.17**
1705	1,6,10,16,18,21,27,26,31,34,38,40,42,46,48,51	-0.15	-0.38	-0.20	0.74	0.15	0.98	-0.16	-1.39	-0.39	-1.32	1.51	1.01	-0.34	0.19	1.23	1.14	1.40	**4.04**
1706	1,6,10,16,18,21,27,26,31,34,38,40,42,46,48,52,53,54	-0.47	-0.38	-0.56	0.36	0.69	0.13	-0.40	-1.21	-0.27	-1.32	1.19	0.05	-0.83	0.19	1.23	1.14	1.40	**0.96**
1707	1,6,10,16,18,21,27,26,31,34,38,40,42,47,50,54	-1.36	-0.12	-1.40	-0.69	1.57	0.98	-1.11	-1.21	0.44	-1.08	-0.10	-0.90	-1.16	0.19	1.23	1.14	1.40	**-2.18**
1708	1,6,10,16,18,21,27,26,31,34,38,40,42,49,53,54	-1.40	-0.38	-1.42	-0.74	1.54	0.13	-1.35	-0.69	-0.14	-1.21	0.09	0.05	-1.20	0.19	1.23	1.14	1.40	**-2.77**
1709	1,6,10,16,18,21,27,26,31,34,38,41,44,55	-0.89	-1.15	-0.67	-0.98	1.41	-0.30	-1.35	-1.39	0.18	-1.16	0.38	-0.90	-0.67	0.19	1.23	1.14	1.40	**-3.53**
1710	1,6,10,16,18,21,27,26,31,34,38,41,45,55	0.81	-0.12	0.17	0.04	0.92	1.84	-0.16	-0.81	1.51	-0.35	1.09	-0.90	0.20	0.19	1.23	1.14	1.40	**8.21**
1711	1,6,10,16,18,21,27,26,31,34,38,43,47,46,48,51	-0.15	-0.64	-0.20	0.82	0.19	0.98	-0.16	-1.39	-0.39	-1.28	1.52	1.01	-0.34	0.19	1.23	1.14	1.40	**3.95**
1712	1,6,10,16,18,21,27,26,31,34,38,43,47,46,48,52,53,54	-0.47	-0.64	-0.55	0.43	0.73	0.13	-0.40	-1.21	-0.27	-1.28	1.20	0.05	-0.82	0.19	1.23	1.14	1.40	**0.87**
1713	1,6,10,16,18,21,27,26,31,34,38,43,47,49,53,54	-1.40	-0.38	-1.42	-0.67	1.58	0.13	-1.35	-0.69	-0.14	-1.18	0.09	0.05	-1.19	0.19	1.23	1.14	1.40	**-2.60**
1714	1,6,10,16,18,21,27,26,31,34,38,43,50,54	-1.50	-0.90	-1.44	-0.78	1.52	0.13	-1.11	-1.21	0.44	-1.14	-0.15	-0.90	-1.24	0.19	1.23	1.14	1.40	**-4.32**
1715	1,6,10,16,18,21,27,26,33,37,40,41,44,55	-0.86	-1.67	-0.67	-0.97	0.34	0.13	-1.11	-1.76	-0.44	-1.15	0.40	-0.90	-0.63	0.19	1.23	1.14	-0.72	**-7.47**
1716	1,6,10,16,18,21,27,26,33,37,40,41,45,55	0.84	-0.64	0.17	0.05	-0.15	2.27	0.08	-1.18	0.88	-0.34	1.11	-0.90	0.24	0.19	1.23	1.14	-0.72	**4.27**
1717	1,6,10,16,18,21,27,26,33,37,40,43,47,46,48,51	-0.12	-0.64	-0.19	0.83	-0.88	1.41	0.08	-1.76	-1.01	-1.28	1.53	1.01	-0.30	0.19	1.23	1.14	-0.72	**0.53**
1718	1,6,10,16,18,21,27,26,33,37,40,43,47,46,48,52,53,54	-0.45	-0.64	-0.55	0.44	-0.34	0.55	-0.16	-1.58	-0.89	-1.28	1.22	0.05	-0.78	0.19	1.23	1.14	-0.72	**-2.56**
1719	1,6,10,16,18,21,27,26,33,37,40,43,47,49,53,54	-1.37	-0.38	-1.42	-0.66	0.51	0.55	-1.11	-1.06	-0.77	-1.17	0.11	0.05	-1.15	0.19	1.23	1.14	-0.72	**-6.02**
1720	1,6,10,16,18,21,27,26,33,37,40,43,50,54	-1.47	-0.90	-1.44	-0.77	0.44	0.55	-0.87	-1.58	-0.19	-1.13	-0.13	-0.90	-1.20	0.19	1.23	1.14	-0.72	**-7.74**
1721	1,6,10,16,18,21,27,26,33,37,42,46,48,51	-0.25	-1.41	-0.23	0.75	-0.92	0.55	0.08	-1.76	-1.01	-1.31	1.50	1.01	-0.37	0.19	1.23	1.14	-0.72	**-1.54**
1722	1,6,10,16,18,21,27,26,33,37,42,46,48,52,53,54	-0.58	-1.41	-0.59	0.36	-0.39	-0.30	-0.16	-1.58	-0.89	-1.31	1.18	0.05	-0.86	0.19	1.23	1.14	-0.72	**-4.63**
1723	1,6,10,16,18,21,27,26,33,37,42,47,50,54	-1.46	-1.15	-1.43	-0.68	0.49	0.55	-0.87	-1.58	-0.19	-1.08	-0.11	-0.90	-1.19	0.19	1.23	1.14	-0.72	**-7.77**
1724	1,6,10,16,18,21,27,26,33,37,42,49,53,54	-1.51	-1.41	-1.45	-0.74	0.46	-0.30	-1.11	-1.06	-0.77	-1.21	0.07	0.05	-1.23	0.19	1.23	1.14	-0.72	**-8.35**
1725	1,6,10,16,18,21,28,31,30,32,46,47,50,54	0.95	0.14	0.19	-0.94	0.63	2.27	1.28	-2.17	1.11	-0.31	1.00	-0.90	0.83	0.92	1.23	-0.77	0.98	**6.44**
1726	1,6,10,16,18,21,28,31,30,32,46,49,53,54	0.91	-0.12	0.17	-0.99	0.61	1.41	1.04	-1.65	0.53	-0.44	1.16	0.05	0.79	0.92	1.23	-0.77	0.98	**5.83**
1727	1,6,10,16,18,21,28,31,30,32,48,51	0.41	-0.64	0.92	-1.58	-1.35	2.27	1.75	-2.35	0.28	-0.54	0.66	-0.90	1.30	0.92	1.23	-0.77	0.98	**2.58**
1728	1,6,10,16,18,21,28,31,30,32,48,52,53,54	0.08	-0.64	0.56	-1.97	-0.81	1.41	1.52	-2.17	0.41	-0.54	0.34	-1.85	0.81	0.92	1.23	-0.77	0.98	**-0.50**
1729	1,6,10,16,18,21,28,31,33,37,40,41,44,55	-0.94	-1.67	-0.74	-0.94	0.54	0.13	-1.11	-1.76	-0.79	-0.91	0.14	-0.90	-0.73	0.19	1.23	-0.77	-0.72	**-9.75**
1730	1,6,10,16,18,21,28,31,33,37,40,41,45,55	0.76	-0.64	0.10	0.08	0.05	2.27	0.08	-1.18	0.53	-0.10	0.85	-0.90	0.15	0.19	1.23	-0.77	-0.72	**1.99**
1731	1,6,10,16,18,21,28,31,33,37,40,43,47,46,48,51	-0.19	-0.64	-0.26	0.86	-0.68	1.41	0.08	-1.76	-1.37	-1.03	1.28	1.01	-0.39	0.19	1.23	-0.77	-0.72	**-1.75**
1732	1,6,10,16,18,21,28,31,33,37,40,43,47,46,48,52,53,54	-0.52	-0.64	-0.62	0.47	-0.14	0.55	-0.16	-1.58	-1.25	-1.03	0.96	0.05	-0.87	0.19	1.23	-0.77	-0.72	**-4.84**
1733	1,6,10,16,18,21,28,31,33,37,40,43,47,49,53,54	-1.45	-0.38	-1.49	-0.63	0.71	0.55	-1.11	-1.06	-1.12	-0.93	-0.15	0.05	-1.25	0.19	1.23	-0.77	-0.72	**-8.30**
1734	1,6,10,16,18,21,28,31,33,37,40,43,50,54	-1.55	-0.90	-1.51	-0.75	0.65	0.55	-0.87	-1.58	-0.54	-0.89	-0.39	-0.90	-1.29	0.19	1.23	-0.77	-0.72	**-10.02**
1735	1,6,10,16,18,21,28,31,33,37,42,46,48,51	-0.32	-1.41	-0.30	0.78	-0.72	0.55	0.08	-1.76	-1.37	-1.07	1.24	1.01	-0.46	0.19	1.23	-0.77	-0.72	**-3.83**
1736	1,6,10,16,18,21,28,31,33,37,42,46,48,52,53,54	-0.65	-1.41	-0.66	0.39	-0.18	-0.30	-0.16	-1.58	-1.25	-1.07	0.92	0.05	-0.95	0.19	1.23	-0.77	-0.72	**-6.91**
1737	1,6,10,16,18,21,28,31,33,37,42,47,50,54	-1.54	-1.15	-1.50	-0.66	0.70	0.55	-0.87	-1.58	-0.54	-0.83	-0.37	-0.90	-1.28	0.19	1.23	-0.77	-0.72	**-10.05**
1738	1,6,10,16,18,21,28,31,33,37,42,49,53,54	-1.58	-1.41	-1.52	-0.71	0.67	-0.30	-1.11	-1.06	-1.12	-0.96	-0.18	0.05	-1.32	0.19	1.23	-0.77	-0.72	**-10.64**
1739	1,6,10,16,18,21,28,34,35,37,40,41,44,55	-0.97	-1.67	-0.73	-0.92	0.90	0.13	-1.35	-1.76	-0.49	-0.95	0.12	-0.90	-0.77	0.19	1.23	-0.77	-0.72	**-9.44**
1740	1,6,10,16,18,21,28,34,35,37,40,41,45,55	0.74	-0.64	0.11	0.10	0.41	2.27	-0.16	-1.18	0.83	-0.14	0.83	-0.90	0.11	0.19	1.23	-0.77	-0.72	**2.29**
1741	1,6,10,16,18,21,28,34,35,37,40,43,47,46,48,51	-0.22	-0.64	-0.26	0.88	-0.32	1.41	-0.16	-1.76	-1.07	-1.08	1.25	1.01	-0.43	0.19	1.23	-0.77	-0.72	**-1.45**
1742	1,6,10,16,18,21,28,34,35,37,40,43,47,46,48,52,53,54	-0.55	-0.64	-0.61	0.49	0.22	0.55	-0.40	-1.58	-0.94	-1.08	0.93	0.05	-0.92	0.19	1.23	-0.77	-0.72	**-4.53**
1743	1,6,10,16,18,21,28,34,35,37,40,43,47,49,53,54	-1.48	-0.38	-1.48	-0.61	1.07	0.55	-1.35	-1.06	-0.82	-0.97	-0.17	0.05	-1.29	0.19	1.23	-0.77	-0.72	**-8.00**
1744	1,6,10,16,18,21,28,34,35,37,40,43,50,54	-1.57	-0.90	-1.50	-0.73	1.01	0.55	-1.11	-1.58	-0.24	-0.93	-0.41	-0.90	-1.33	0.19	1.23	-0.77	-0.72	**-9.72**
1745	1,6,10,16,18,21,28,34,35,37,42,46,48,51	-0.35	-1.41	-0.29	0.80	-0.36	0.55	-0.16	-1.76	-1.07	-1.11	1.21	1.01	-0.51	0.19	1.23	-0.77	-0.72	**-3.52**
1746	1,6,10,16,18,21,28,34,35,37,42,46,48,52,53,54	-0.68	-1.41	-0.65	0.41	0.18	-0.30	-0.40	-1.58	-0.94	-1.11	0.90	0.05	-0.99	0.19	1.23	-0.77	-0.72	**-6.60**
1747	1,6,10,16,18,21,28,34,35,37,42,47,50,54	-1.56	-1.15	-1.50	-0.64	1.06	0.55	-1.11	-1.58	-0.24	-0.88	-0.39	-0.90	-1.33	0.19	1.23	-0.77	-0.72	**-9.74**
1748	1,6,10,16,18,21,28,34,35,37,42,49,53,54	-1.61	-1.41	-1.52	-0.69	1.03	-0.30	-1.35	-1.06	-0.82	-1.00	-0.21	0.05	-1.36	0.19	1.23	-0.77	-0.72	**-10.33**
1749	1,6,10,16,18,21,28,34,36,39,41,40,42,46,48,51	0.98	-0.64	0.83	1.05	-0.98	0.55	0.56	-1.61	-1.10	0.87	0.15	1.01	0.53	0.19	1.23	-0.77	-0.72	**2.14**
1750	1,6,10,16,18,21,28,34,36,39,41,40,42,46,48,52,53,54	0.65	-0.64	0.48	0.67	-0.44	-0.30	0.32	-1.43	-0.97	0.87	-0.17	0.05	0.05	0.19	1.23	-0.77	-0.72	**-0.95**
1751	1,6,10,16,18,21,28,34,36,39,41,40,42,47,50,54	-0.23	-0.38	-0.37	-0.38	0.44	0.55	-0.40	-1.43	-0.27	1.10	-1.46	-0.90	-0.29	0.19	1.23	-0.77	-0.72	**-4.09**
1752	1,6,10,16,18,21,28,34,36,39,41,40,42,49,53,54	-0.27	-0.64	-0.39	-0.43	0.41	-0.30	-0.64	-0.91	-0.85	0.97	-1.28	0.05	-0.32	0.19	1.23	-0.77	-0.72	**-4.67**
1753	1,6,10,16,18,21,28,34,36,39,41,43,47,46,48,51	0.98	-0.38	0.84	1.13	-0.94	0.55	0.56	-1.61	-1.10	0.90	0.15	1.01	0.54	0.19	1.23	-0.77	-0.72	**2.57**
1754	1,6,10,16,18,21,28,34,36,39,41,43,47,46,48,52,53,54	0.66	-0.38	0.48	0.75	-0.40	-0.30	0.32	-1.43	-0.97	0.90	-0.17	0.05	0.05	0.19	1.23	-0.77	-0.72	**-0.52**
1755	1,6,10,16,18,21,28,34,36,39,41,43,47,49,53,54	-0.27	-0.12	-0.39	-0.35	0.45	-0.30	-0.64	-0.91	-0.85	1.00	-1.27	0.05	-0.32	0.19	1.23	-0.77	-0.72	**-3.98**
1756	1,6,10,16,18,21,28,34,36,39,41,43,50,54	-0.37	-0.64	-0.41	-0.47	0.39	-0.30	-0.40	-1.43	-0.27	1.05	-1.51	-0.90	-0.36	0.19	1.23	-0.77	-0.72	**-5.70**
1757	1,6,10,16,18,21,28,34,36,39,44,55	-1.31	-1.93	-0.06	-0.66	0.28	-0.73	-1.59	-1.61	-0.52	1.02	-1.66	-0.90	-0.42	0.19	1.23	-0.77	-0.72	**-10.18**
1758	1,6,10,16,18,21,28,34,36,39,45,55	0.39	-0.90	0.78	0.36	-0.21	1.41	-0.40	-1.04	0.80	1.83	-0.96	-0.90	0.45	0.19	1.23	-0.77	-0.72	**1.56**
1759	1,6,10,16,18,21,28,34,38,40,42,46,48,51	-0.31	-1.41	-0.30	0.77	0.36	0.98	-0.16	-1.39	-0.74	-1.10	1.17	1.01	-0.50	0.19	1.23	-0.77	1.40	**0.44**
1760	1,6,10,16,18,21,28,34,38,40,42,46,48,52,53,54	-0.64	-1.41	-0.65	0.38	0.89	0.13	-0.40	-1.21	-0.62	-1.10	0.86	0.05	-0.99	0.19	1.23	-0.77	1.40	**-2.65**
1761	1,6,10,16,18,21,28,34,38,40,42,47,50,54	-1.52	-1.15	-1.50	-0.67	1.77	0.98	-1.11	-1.21	0.09	-0.86	-0.43	-0.90	-1.32	0.19	1.23	-0.77	1.40	**-5.79**
1762	1,6,10,16,18,21,28,34,38,40,42,49,53,54	-1.57	-1.41	-1.52	-0.72	1.74	0.13	-1.35	-0.69	-0.50	-0.99	-0.25	0.05	-1.36	0.19	1.23	-0.77	1.40	**-6.37**
1763	1,6,10,16,18,21,28,34,38,41,44,55	-1.06	-2.19	-0.77	-0.95	1.62	-0.30	-1.35	-1.39	-0.17	-0.94	0.04	-0.90	-0.83	0.19	1.23	-0.77	1.40	**-7.14**
1764	1,6,10,16,18,21,28,34,38,41,45,55	0.64	-1.15	0.07	0.07	1.13	1.84	-0.16	-0.81	1.15	-0.13	0.75	-0.90	0.04	0.19	1.23	-0.77	1.40	**4.60**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
1765	1,6,10,16,18,21,28,34,38,43,47,46,48,51	-0.31	-1.67	-0.29	0.85	0.40	0.98	-0.16	-1.39	-0.74	-1.06	1.18	1.01	-0.50	0.19	1.23	-0.77	1.40	**0.35**
1766	1,6,10,16,18,21,28,34,38,43,47,46,48,52,53,54	-0.64	-1.67	-0.65	0.46	0.94	0.13	-0.40	-1.21	-0.62	-1.06	0.86	0.05	-0.98	0.19	1.23	-0.77	1.40	**-2.74**
1767	1,6,10,16,18,21,28,34,38,43,47,49,53,54	-1.57	-1.41	-1.52	-0.64	1.79	0.13	-1.35	-0.69	-0.50	-0.96	-0.24	0.05	-1.35	0.19	1.23	-0.77	1.40	**-6.21**
1768	1,6,10,16,18,21,28,34,38,43,50,54	-1.67	-1.93	-1.54	-0.76	1.72	0.13	-1.11	-1.21	0.09	-0.92	-0.48	-0.90	-1.40	0.19	1.23	-0.77	1.40	**-7.92**
1769	1,6,10,16,20,23,26,30,32,46,47,50,54	0.94	-0.38	0.09	-0.72	0.39	1.41	0.80	-1.48	2.00	-0.11	0.81	-0.90	0.59	0.82	1.23	1.14	0.98	**7.62**
1770	1,6,10,16,20,23,26,30,32,46,49,53,54	0.89	-0.64	0.07	-0.77	0.37	0.55	0.56	-0.96	1.42	-0.24	0.97	0.05	0.56	0.82	1.23	1.14	0.98	**7.01**
1771	1,6,10,16,20,23,26,30,32,48,51	0.39	-1.15	0.82	-1.36	-1.59	1.41	1.28	-1.66	1.17	-0.34	0.47	-0.90	1.07	0.82	1.23	1.14	0.98	**3.77**
1772	1,6,10,16,20,23,26,30,32,48,52,53,54	0.07	-1.15	0.47	-1.75	-1.05	0.55	1.04	-1.48	1.30	-0.34	0.15	-1.85	0.58	0.82	1.23	1.14	0.98	**0.68**
1773	1,6,10,16,20,23,26,31,34,35,37,40,41,44,55	-0.89	-1.67	-0.80	-0.70	0.66	-0.73	-1.83	-1.06	0.40	-0.73	0.01	-0.90	-0.94	0.10	1.23	1.14	-0.72	**-7.45**
1774	1,6,10,16,20,23,26,31,34,35,37,40,41,45,55	0.81	-0.64	0.04	0.32	0.17	1.41	-0.64	-0.49	1.72	0.08	0.72	-0.90	-0.06	0.10	1.23	1.14	-0.72	**4.29**
1775	1,6,10,16,20,23,26,31,34,35,37,40,43,47,46,48,51	-0.14	-0.64	-0.33	1.10	-0.56	0.55	-0.64	-1.06	-0.18	-0.85	1.14	1.01	-0.60	0.10	1.23	1.14	-0.72	**0.55**
1776	1,6,10,16,20,23,26,31,34,35,37,40,43,47,46,48,52,53,54	-0.47	-0.64	-0.68	0.71	-0.02	-0.30	-0.87	-0.89	-0.05	-0.85	0.82	0.05	-1.09	0.10	1.23	1.14	-0.72	**-2.54**
1777	1,6,10,16,20,23,26,31,34,35,37,40,43,47,49,53,54	-1.40	-0.38	-1.55	-0.39	0.83	-0.30	-1.83	-0.37	0.07	-0.75	-0.28	0.05	-1.46	0.10	1.23	1.14	-0.72	**-6.00**
1778	1,6,10,16,20,23,26,31,34,35,37,40,43,50,54	-1.50	-0.90	-1.57	-0.51	0.77	-0.30	-1.59	-0.89	0.65	-0.70	-0.52	-0.90	-1.50	0.10	1.23	1.14	-0.72	**-7.72**
1779	1,6,10,16,20,23,26,31,34,35,37,42,46,48,51	-0.27	-1.41	-0.36	1.02	-0.60	-0.30	-0.64	-1.06	-0.18	-0.88	1.10	1.01	-0.68	0.10	1.23	1.14	-0.72	**-1.52**
1780	1,6,10,16,20,23,26,31,34,35,37,42,46,48,52,53,54	-0.60	-1.41	-0.72	0.63	-0.06	-1.16	-0.87	-0.89	-0.05	-0.88	0.79	0.05	-1.16	0.10	1.23	1.14	-0.72	**-4.61**
1781	1,6,10,16,20,23,26,31,34,35,37,42,47,50,54	-1.49	-1.15	-1.57	-0.41	0.82	-0.30	-1.59	-0.89	0.65	-0.65	-0.50	-0.90	-1.50	0.10	1.23	1.14	-0.72	**-7.75**
1782	1,6,10,16,20,23,26,31,34,35,37,42,49,53,54	-1.53	-1.41	-1.59	-0.47	0.79	-1.16	-1.83	-0.37	0.07	-0.78	-0.32	0.05	-1.53	0.10	1.23	1.14	-0.72	**-8.33**
1783	1,6,10,16,20,23,26,31,34,36,39,41,40,42,46,48,51	1.06	-0.64	0.77	1.28	-1.22	-0.30	0.08	-0.92	-0.21	1.09	0.04	1.01	0.37	0.10	1.23	1.14	-0.72	**4.13**
1784	1,6,10,16,20,23,26,31,34,36,39,41,40,42,46,48,52,53,54	0.73	-0.64	0.41	0.89	-0.68	-1.16	-0.16	-0.74	-0.08	1.09	-0.28	0.05	-0.12	0.10	1.23	1.14	-0.72	**1.05**
1785	1,6,10,16,20,23,26,31,34,36,39,41,40,42,47,50,54	-0.15	-0.38	-0.44	-0.16	0.20	-0.30	-0.87	-0.74	0.62	1.32	-1.57	-0.90	-0.46	0.10	1.23	1.14	-0.72	**-2.09**
1786	1,6,10,16,20,23,26,31,34,36,39,41,40,42,49,53,54	-0.20	-0.64	-0.46	-0.21	0.17	-1.16	-1.11	-0.22	0.04	1.19	-1.39	0.05	-0.49	0.10	1.23	1.14	-0.72	**-2.68**
1787	1,6,10,16,20,23,26,31,34,36,39,41,43,47,46,48,51	1.06	-0.38	0.77	1.35	-1.17	-0.30	0.08	-0.92	-0.21	1.12	0.04	1.01	0.37	0.10	1.23	1.14	-0.72	**4.56**
1788	1,6,10,16,20,23,26,31,34,36,39,41,43,47,46,48,52,53,54	0.73	-0.38	0.41	0.97	-0.64	-1.16	-0.16	-0.74	-0.08	1.12	-0.28	0.05	-0.12	0.10	1.23	1.14	-0.72	**1.48**
1789	1,6,10,16,20,23,26,31,34,36,39,41,43,47,49,53,54	-0.19	-0.12	-0.46	-0.13	0.21	-1.16	-1.11	-0.22	0.04	1.23	-1.38	0.05	-0.49	0.10	1.23	1.14	-0.72	**-1.99**
1790	1,6,10,16,20,23,26,31,34,36,39,41,43,50,54	-0.29	-0.64	-0.48	-0.25	0.15	-1.16	-0.87	-0.74	0.62	1.27	-1.62	-0.90	-0.53	0.10	1.23	1.14	-0.72	**-3.71**
1791	1,6,10,16,20,23,26,31,34,36,39,44,55	-1.23	-1.93	-0.13	-0.44	0.04	-1.59	-2.07	-0.92	0.37	1.24	-1.77	-0.90	-0.59	0.10	1.23	1.14	-0.72	**-8.18**
1792	1,6,10,16,20,23,26,31,34,36,39,45,55	0.47	-0.90	0.71	0.58	-0.45	0.55	-0.87	-0.35	1.69	2.06	-1.07	-0.90	0.28	0.10	1.23	1.14	-0.72	**3.55**
1793	1,6,10,16,20,23,26,31,34,38,40,42,46,48,51	-0.24	-1.41	-0.36	0.99	0.12	0.13	-0.64	-0.70	0.15	-0.87	1.06	1.01	-0.67	0.10	1.23	1.14	1.40	**2.43**
1794	1,6,10,16,20,23,26,31,34,38,40,42,46,48,52,53,54	-0.56	-1.41	-0.72	0.60	0.65	-0.73	-0.87	-0.52	0.27	-0.87	0.75	0.05	-1.15	0.10	1.23	1.14	1.40	**-0.66**
1795	1,6,10,16,20,23,26,31,34,38,40,42,47,50,54	-1.45	-1.15	-1.57	-0.45	1.53	0.13	-1.59	-0.52	0.98	-0.64	-0.54	-0.90	-1.49	0.10	1.23	1.14	1.40	**-3.80**
1796	1,6,10,16,20,23,26,31,34,38,40,42,49,53,54	-1.49	-1.41	-1.59	-0.50	1.51	-0.73	-1.83	0.00	0.39	-0.77	-0.36	0.05	-1.53	0.10	1.23	1.14	1.40	**-4.38**
1797	1,6,10,16,20,23,26,31,34,38,41,44,55	-0.98	-2.19	-0.84	-0.73	1.38	-1.16	-1.83	-0.70	0.72	-0.72	-0.07	-0.90	-1.00	0.10	1.23	1.14	1.40	**-5.14**
1798	1,6,10,16,20,23,26,31,34,38,41,45,55	0.72	-1.15	0.00	0.29	0.89	0.98	-0.64	-0.12	2.04	0.09	0.64	-0.90	-0.13	0.10	1.23	1.14	1.40	**6.59**
1799	1,6,10,16,20,23,26,31,34,38,43,47,46,48,51	-0.23	-1.67	-0.36	1.07	0.16	0.13	-0.64	-0.70	0.15	-0.84	1.07	1.01	-0.67	0.10	1.23	1.14	1.40	**2.34**
1800	1,6,10,16,20,23,26,31,34,38,43,47,46,48,52,53,54	-0.56	-1.67	-0.72	0.68	0.70	-0.73	-0.87	-0.52	0.27	-0.84	0.75	0.05	-1.15	0.10	1.23	1.14	1.40	**-0.75**
1801	1,6,10,16,20,23,26,31,34,38,43,47,49,53,54	-1.49	-1.41	-1.59	-0.42	1.55	-0.73	-1.83	0.00	0.39	-0.74	-0.35	0.05	-1.52	0.10	1.23	1.14	1.40	**-4.21**
1802	1,6,10,16,20,23,26,31,34,38,43,50,54	-1.59	-1.93	-1.60	-0.54	1.48	-0.73	-1.59	-0.52	0.98	-0.69	-0.59	-0.90	-1.56	0.10	1.23	1.14	1.40	**-5.93**
1803	1,6,10,16,20,23,26,33,37,40,41,44,55	-0.95	-2.71	-0.83	-0.72	0.30	-0.73	-1.59	-1.06	0.10	-0.71	-0.04	-0.90	-0.96	0.10	1.23	1.14	-0.72	**-9.08**
1804	1,6,10,16,20,23,26,33,37,40,41,45,55	0.75	-1.67	0.01	0.30	-0.19	1.41	-0.40	-0.49	1.42	0.10	0.66	-0.90	-0.08	0.10	1.23	1.14	-0.72	**2.65**
1805	1,6,10,16,20,23,26,33,37,40,43,47,46,48,51	-0.21	-1.67	-0.36	1.08	-0.91	0.55	-0.40	-1.06	-0.48	-0.83	1.09	1.01	-0.62	0.10	1.23	1.14	-0.72	**-1.09**
1806	1,6,10,16,20,23,26,33,37,40,43,47,46,48,52,53,54	-0.53	-1.67	-0.71	0.69	-0.38	-0.30	-0.64	-0.89	-0.36	-0.83	0.77	0.05	-1.11	0.10	1.23	1.14	-0.72	**-4.17**
1807	1,6,10,16,20,23,26,33,37,40,43,47,49,53,54	-1.46	-1.41	-1.58	-0.41	0.47	-0.30	-1.59	-0.37	-0.23	-0.73	-0.33	0.05	-1.48	0.10	1.23	1.14	-0.72	**-7.64**
1808	1,6,10,16,20,23,26,33,37,40,43,50,54	-1.56	-1.93	-1.60	-0.53	0.41	-0.30	-1.35	-0.89	0.35	-0.69	-0.58	-0.90	-1.52	0.10	1.23	1.14	-0.72	**-9.36**
1809	1,6,10,16,20,23,26,33,37,42,46,48,51	-0.34	-2.45	-0.39	1.00	-0.96	-0.30	-0.40	-1.06	-0.48	-0.87	1.05	1.01	-0.70	0.10	1.23	1.14	-0.72	**-3.16**
1810	1,6,10,16,20,23,26,33,37,42,46,48,52,53,54	-0.67	-2.45	-0.75	0.61	-0.42	-1.16	-0.64	-0.89	-0.36	-0.87	0.73	0.05	-1.18	0.10	1.23	1.14	-0.72	**-6.24**
1811	1,6,10,16,20,23,26,33,37,42,47,50,54	-1.55	-2.19	-1.60	-0.44	0.46	-0.30	-1.35	-0.89	0.35	-0.64	-0.55	-0.90	-1.52	0.10	1.23	1.14	-0.72	**-9.38**
1812	1,6,10,16,20,23,26,33,37,42,49,53,54	-1.59	-2.45	-1.62	-0.49	0.43	-1.16	-1.59	-0.37	-0.23	-0.76	-0.37	0.05	-1.55	0.10	1.23	1.14	-0.72	**-9.97**
1813	1,6,10,16,20,23,27,28,31,30,32,46,47,50,54	0.97	-0.38	0.05	-0.69	0.60	1.41	0.80	-1.48	1.65	0.26	0.56	-0.90	0.56	0.82	1.23	-0.77	0.98	**5.66**
1814	1,6,10,16,20,23,27,28,31,30,32,46,49,53,54	0.93	-0.64	0.03	-0.74	0.57	0.55	0.56	-0.96	1.07	0.13	0.72	0.05	0.52	0.82	1.23	-0.77	0.98	**5.06**
1815	1,6,10,16,20,23,27,28,31,30,32,48,51	0.43	-1.15	0.78	-1.33	-1.38	1.41	1.28	-1.66	0.82	0.03	0.21	-0.90	1.03	0.82	1.23	-0.77	0.98	**1.81**
1816	1,6,10,16,20,23,27,28,31,30,32,48,52,53,54	0.10	-1.15	0.42	-1.72	-0.84	0.55	1.04	-1.48	0.94	0.03	-0.11	-1.85	0.55	0.82	1.23	-0.77	0.98	**-1.28**
1817	1,6,10,16,20,23,27,28,31,33,37,40,41,44,55	-0.92	-2.19	-0.87	-0.69	0.51	-0.73	-1.59	-1.06	-0.26	-0.34	-0.30	-0.90	-0.99	0.10	1.23	-0.77	-0.72	**-10.52**
1818	1,6,10,16,20,23,27,28,31,33,37,40,41,45,55	0.78	-1.15	-0.03	0.33	0.02	1.41	-0.40	-0.49	1.07	0.47	0.41	-0.90	-0.12	0.10	1.23	-0.77	-0.72	**1.21**
1819	1,6,10,16,20,23,27,28,31,33,37,40,43,47,46,48,51	-0.17	-1.15	-0.40	1.10	-0.71	0.55	-0.40	-1.06	-0.83	-0.46	0.83	1.01	-0.66	0.10	1.23	-0.77	-0.72	**-2.53**
1820	1,6,10,16,20,23,27,28,31,33,37,40,43,47,46,48,52,53,54	-0.50	-1.15	-0.75	0.72	-0.17	-0.30	-0.64	-0.89	-0.71	-0.46	0.51	0.05	-1.14	0.10	1.23	-0.77	-0.72	**-5.61**
1821	1,6,10,16,20,23,27,28,31,33,37,40,43,47,49,53,54	-1.43	-0.90	-1.62	-0.38	0.68	-0.30	-1.59	-0.37	-0.58	-0.36	-0.59	0.05	-1.51	0.10	1.23	-0.77	-0.72	**-9.08**
1822	1,6,10,16,20,23,27,28,31,33,37,40,43,50,54	-1.53	-1.41	-1.64	-0.50	0.61	-0.30	-1.35	-0.89	0.00	-0.32	-0.83	-0.90	-1.56	0.10	1.23	-0.77	-0.72	**-10.80**
1823	1,6,10,16,20,23,27,28,31,33,37,42,46,48,51	-0.30	-1.93	-0.43	1.02	-0.75	-0.30	-0.40	-1.06	-0.83	-0.50	0.79	1.01	-0.73	0.10	1.23	-0.77	-0.72	**-4.60**
1824	1,6,10,16,20,23,27,28,31,33,37,42,46,48,52,53,54	-0.63	-1.93	-0.79	0.64	-0.22	-1.16	-0.64	-0.89	-0.71	-0.50	0.48	0.05	-1.22	0.10	1.23	-0.77	-0.72	**-7.68**
1825	1,6,10,16,20,23,27,28,31,33,37,42,47,50,54	-1.52	-1.67	-1.64	-0.41	0.66	-0.30	-1.35	-0.89	0.00	-0.27	-0.81	-0.90	-1.55	0.10	1.23	-0.77	-0.72	**-10.82**
1826	1,6,10,16,20,23,27,28,31,33,37,42,49,53,54	-1.56	-1.93	-1.66	-0.46	0.64	-1.16	-1.59	-0.37	-0.58	-0.39	-0.63	0.05	-1.59	0.10	1.23	-0.77	-0.72	**-11.41**
1827	1,6,10,16,20,23,27,28,34,35,37,40,41,44,55	-0.95	-2.19	-0.87	-0.67	0.87	-0.73	-1.83	-1.06	0.04	-0.38	-0.33	-0.90	-1.04	0.10	1.23	-0.77	-0.72	**-10.21**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
1828	1,6,10,16,20,23,27,28,34,35,37,40,41,45,55	0.76	-1.15	-0.03	0.35	0.37	1.41	-0.64	-0.49	1.37	0.43	0.38	-0.90	-0.16	0.10	1.23	-0.77	-0.72	**1.52**
1829	1,6,10,16,20,23,27,28,34,35,37,40,43,47,46,48,51	-0.20	-1.15	-0.39	1.13	-0.35	0.55	-0.64	-1.06	-0.53	-0.51	0.81	1.01	-0.70	0.10	1.23	-0.77	-0.72	**-2.22**
1830	1,6,10,16,20,23,27,28,34,35,37,40,43,47,46,48,52,53,54	-0.53	-1.15	-0.75	0.74	0.19	-0.30	-0.87	-0.89	-0.41	-0.51	0.49	0.05	-1.19	0.10	1.23	-0.77	-0.72	**-5.30**
1831	1,6,10,16,20,23,27,28,34,35,37,40,43,47,49,53,54	-1.45	-0.90	-1.61	-0.36	1.04	-0.30	-1.83	-0.37	-0.28	-0.40	-0.62	0.05	-1.56	0.10	1.23	-0.77	-0.72	**-8.77**
1832	1,6,10,16,20,23,27,28,34,35,37,40,43,50,54	-1.55	-1.41	-1.63	-0.48	0.97	-0.30	-1.59	-0.89	0.30	-0.36	-0.86	-0.90	-1.60	0.10	1.23	-0.77	-0.72	**-10.49**
1833	1,6,10,16,20,23,27,28,34,35,37,42,46,48,51	-0.33	-1.93	-0.43	1.05	-0.40	-0.30	-0.64	-1.06	-0.53	-0.54	0.77	1.01	-0.78	0.10	1.23	-0.77	-0.72	**-4.29**
1834	1,6,10,16,20,23,27,28,34,35,37,42,46,48,52,53,54	-0.66	-1.93	-0.78	0.66	0.14	-1.16	-0.87	-0.89	-0.41	-0.54	0.45	0.05	-1.26	0.10	1.23	-0.77	-0.72	**-7.38**
1835	1,6,10,16,20,23,27,28,34,35,37,42,47,50,54	-1.54	-1.67	-1.63	-0.39	1.02	-0.30	-1.59	-0.89	0.30	-0.31	-0.84	-0.90	-1.60	0.10	1.23	-0.77	-0.72	**-10.51**
1836	1,6,10,16,20,23,27,28,34,35,37,42,49,53,54	-1.59	-1.93	-1.65	-0.44	0.99	-1.16	-1.83	-0.37	-0.28	-0.44	-0.65	0.05	-1.63	0.10	1.23	-0.77	-0.72	**-11.10**
1837	1,6,10,16,20,23,27,28,34,36,39,41,40,42,46,48,51	1.00	-1.15	0.70	1.30	-1.01	-0.30	0.08	-0.92	-0.56	1.43	-0.30	1.01	0.27	0.10	1.23	-0.77	-0.72	**1.37**
1838	1,6,10,16,20,23,27,28,34,36,39,41,40,42,46,48,52,53,54	0.67	-1.15	0.34	0.92	-0.48	-1.16	-0.16	-0.74	-0.44	1.43	-0.62	0.05	-0.22	0.10	1.23	-0.77	-0.72	**-1.72**
1839	1,6,10,16,20,23,27,28,34,36,39,41,40,42,47,50,54	-0.21	-0.90	-0.50	-0.13	0.40	-0.30	-0.87	-0.74	0.27	1.67	-1.90	-0.90	-0.55	0.10	1.23	-0.77	-0.72	**-4.86**
1840	1,6,10,16,20,23,27,28,34,36,39,41,40,42,49,53,54	-0.25	-1.15	-0.52	-0.18	0.38	-1.16	-1.11	-0.22	-0.31	1.54	-1.72	0.05	-0.59	0.10	1.23	-0.77	-0.72	**-5.44**
1841	1,6,10,16,20,23,27,28,34,36,39,41,43,47,46,48,51	1.00	-0.90	0.70	1.38	-0.97	-0.30	0.08	-0.92	-0.56	1.47	-0.29	1.01	0.27	0.10	1.23	-0.77	-0.72	**1.80**
1842	1,6,10,16,20,23,27,28,34,36,39,41,43,47,46,48,52,53,54	0.68	-0.90	0.34	1.00	-0.43	-1.16	-0.16	-0.74	-0.44	1.47	-0.61	0.05	-0.21	0.10	1.23	-0.77	-0.72	**-1.29**
1843	1,6,10,16,20,23,27,28,34,36,39,41,43,47,49,53,54	-0.25	-0.64	-0.52	-0.10	0.42	-1.16	-1.11	-0.22	-0.31	1.57	-1.72	0.05	-0.59	0.10	1.23	-0.77	-0.72	**-4.75**
1844	1,6,10,16,20,23,27,28,34,36,39,41,43,50,54	-0.35	-1.15	-0.54	-0.22	0.35	-1.16	-0.87	-0.74	0.27	1.61	-1.96	-0.90	-0.63	0.10	1.23	-0.77	-0.72	**-6.47**
1845	1,6,10,16,20,23,27,28,34,36,39,44,55	-1.29	-2.45	-0.19	-0.41	0.25	-1.59	-2.07	-0.92	0.01	1.59	-2.11	-0.90	-0.69	0.10	1.23	-0.77	-0.72	**-10.95**
1846	1,6,10,16,20,23,27,28,34,36,39,45,55	0.42	-1.41	0.65	0.60	-0.24	0.55	-0.87	-0.35	1.34	2.40	-1.40	-0.90	0.18	0.10	1.23	-0.77	-0.72	**0.79**
1847	1,6,10,16,20,23,27,28,34,38,40,42,46,48,51	-0.29	-1.93	-0.43	1.02	0.32	0.13	-0.64	-0.70	-0.21	-0.53	0.73	1.01	-0.77	0.10	1.23	-0.77	1.40	**-0.34**
1848	1,6,10,16,20,23,27,28,34,38,40,42,46,48,52,53,54	-0.62	-1.93	-0.79	0.63	0.86	-0.73	-0.87	-0.52	-0.08	-0.53	0.41	0.05	-1.25	0.10	1.23	-0.77	1.40	**-3.42**
1849	1,6,10,16,20,23,27,28,34,38,40,42,47,50,54	-1.50	-1.67	-1.63	-0.42	1.74	0.13	-1.59	-0.52	0.62	-0.30	-0.88	-0.90	-1.59	0.10	1.23	-0.77	1.40	**-6.56**
1850	1,6,10,16,20,23,27,28,34,38,40,42,49,53,54	-1.55	-1.93	-1.65	-0.47	1.71	-0.73	-1.83	0.00	0.04	-0.42	-0.69	0.05	-1.62	0.10	1.23	-0.77	1.40	**-7.15**
1851	1,6,10,16,20,23,27,28,34,38,41,44,55	-1.04	-2.71	-0.90	-0.70	1.58	-1.16	-1.83	-0.70	0.37	-0.37	-0.40	-0.90	-1.10	0.10	1.23	-0.77	1.40	**-7.91**
1852	1,6,10,16,20,23,27,28,34,38,41,45,55	0.66	-1.67	-0.06	0.32	1.09	0.98	-0.64	-0.12	1.69	0.44	0.30	-0.90	-0.22	0.10	1.23	-0.77	1.40	**3.83**
1853	1,6,10,16,20,23,27,28,34,38,43,47,46,48,51	-0.29	-2.19	-0.43	1.10	0.37	0.13	-0.64	-0.70	-0.21	-0.50	0.73	1.01	-0.76	0.10	1.23	-0.77	1.40	**-0.43**
1854	1,6,10,16,20,23,27,28,34,38,43,47,46,48,52,53,54	-0.62	-2.19	-0.78	0.71	0.90	-0.73	-0.87	-0.52	-0.08	-0.50	0.42	0.05	-1.25	0.10	1.23	-0.77	1.40	**-3.51**
1855	1,6,10,16,20,23,27,28,34,38,43,47,49,53,54	-1.55	-1.93	-1.65	-0.39	1.75	-0.73	-1.83	0.00	0.04	-0.39	-0.69	0.05	-1.62	0.10	1.23	-0.77	1.40	**-6.98**
1856	1,6,10,16,20,23,27,28,34,38,43,50,54	-1.65	-2.45	-1.67	-0.51	1.69	-0.73	-1.59	-0.52	0.62	-0.35	-0.93	-0.90	-1.66	0.10	1.23	-0.77	1.40	**-8.70**
1857	1,6,8,14,30,31,34,35,37,40,41,44,55	0.46	-2.71	1.24	-0.52	0.69	-0.30	0.56	-1.71	-3.10	0.15	0.96	0.05	0.60	-1.02	1.23	-0.77	-0.72	**-4.92**
1858	1,6,8,14,30,31,34,35,37,40,41,45,55	2.16	-1.67	2.08	0.50	0.20	1.84	1.75	-1.14	-1.78	0.96	1.66	0.05	1.48	-1.02	1.23	-0.77	-0.72	**6.81**
1859	1,6,8,14,30,31,34,35,37,40,43,47,46,48,51	1.21	-1.67	1.72	1.28	-0.53	0.98	1.75	-1.71	-3.68	0.03	2.09	1.96	0.94	-1.02	1.23	-0.77	-0.72	**3.07**
1860	1,6,8,14,30,31,34,35,37,40,43,47,46,48,52,53,54	0.88	-1.67	1.36	0.89	0.01	0.13	1.52	-1.54	-3.55	0.03	1.77	1.01	0.45	-1.02	1.23	-0.77	-0.72	**-0.01**
1861	1,6,8,14,30,31,34,35,37,40,43,47,49,53,54	-0.05	-1.41	0.50	-0.21	0.86	0.13	0.56	-1.02	-3.43	0.13	0.67	1.01	0.08	-1.02	1.23	-0.77	-0.72	**-3.48**
1862	1,6,8,14,30,31,34,35,37,40,43,50,54	-0.15	-1.93	0.48	-0.33	0.80	0.13	0.80	-1.54	-2.85	0.18	0.43	0.05	0.04	-1.02	1.23	-0.77	-0.72	**-5.20**
1863	1,6,8,14,30,31,34,35,37,42,46,48,51	1.08	-2.45	1.68	1.20	-0.57	0.13	1.75	-1.71	-3.68	-0.01	2.05	1.96	0.86	-1.02	1.23	-0.77	-0.72	**1.00**
1864	1,6,8,14,30,31,34,35,37,42,46,48,52,53,54	0.75	-2.45	1.33	0.81	-0.03	-0.73	1.52	-1.54	-3.55	-0.01	1.73	1.01	0.38	-1.02	1.23	-0.77	-0.72	**-2.08**
1865	1,6,8,14,30,31,34,35,37,42,47,50,54	-0.13	-2.19	0.48	-0.24	0.85	0.13	0.80	-1.54	-2.85	0.23	0.45	0.05	0.04	-1.02	1.23	-0.77	-0.72	**-5.22**
1866	1,6,8,14,30,31,34,35,37,42,49,53,54	-0.18	-2.45	0.46	-0.29	0.82	-0.73	0.56	-1.02	-3.43	0.10	0.63	1.01	0.01	-1.02	1.23	-0.77	-0.72	**-5.81**
1867	1,6,8,14,30,31,34,36,39,41,40,42,46,48,51	2.41	-1.67	2.81	1.45	-1.19	0.13	2.47	-1.57	-3.71	1.97	0.99	1.96	1.91	-1.02	1.23	-0.77	-0.72	**6.66**
1868	1,6,8,14,30,31,34,36,39,41,40,42,46,48,52,53,54	2.08	-1.67	2.45	1.07	-0.65	-0.73	2.23	-1.39	-3.58	1.97	0.67	1.01	1.42	-1.02	1.23	-0.77	-0.72	**3.57**
1869	1,6,8,14,30,31,34,36,39,41,40,42,47,50,54	1.20	-1.41	1.61	0.02	0.23	0.13	1.52	-1.39	-2.88	2.20	-0.62	0.05	1.09	-1.02	1.23	-0.77	-0.72	**0.43**
1870	1,6,8,14,30,31,34,36,39,41,40,42,49,53,54	1.15	-1.67	1.59	-0.03	0.20	-0.73	1.28	-0.87	-3.46	2.07	-0.44	1.01	1.05	-1.02	1.23	-0.77	-0.72	**-0.15**
1871	1,6,8,14,30,31,34,36,39,41,43,47,46,48,51	2.41	-1.41	2.81	1.53	-1.15	0.13	2.47	-1.57	-3.71	2.00	0.99	1.96	1.91	-1.02	1.23	-0.77	-0.72	**7.09**
1872	1,6,8,14,30,31,34,36,39,41,43,47,46,48,52,53,54	2.08	-1.41	2.46	1.15	-0.61	-0.73	2.23	-1.39	-3.58	2.00	0.67	1.01	1.43	-1.02	1.23	-0.77	-0.72	**4.00**
1873	1,6,8,14,30,31,34,36,39,41,43,47,49,53,54	1.16	-1.15	1.59	0.05	0.24	-0.73	1.28	-0.87	-3.46	2.11	-0.43	1.01	1.05	-1.02	1.23	-0.77	-0.72	**0.54**
1874	1,6,8,14,30,31,34,36,39,41,43,50,54	1.06	-1.67	1.57	-0.07	0.18	-0.73	1.52	-1.39	-2.88	2.15	-0.67	0.05	1.01	-1.02	1.23	-0.77	-0.72	**-1.18**
1875	1,6,8,14,30,31,34,36,39,44,55	0.12	-2.97	1.92	-0.26	0.07	-1.16	0.32	-1.57	-3.13	2.12	-0.83	0.05	0.95	-1.02	1.23	-0.77	-0.72	**-5.66**
1876	1,6,8,14,30,31,34,36,39,45,55	1.82	-1.93	2.76	0.75	-0.42	0.98	1.52	-1.00	-1.81	2.93	-0.12	0.05	1.82	-1.02	1.23	-0.77	-0.72	**6.08**
1877	1,6,8,14,30,31,34,38,40,42,46,48,51	1.12	-2.45	1.68	1.17	0.15	0.55	1.75	-1.35	-3.35	0.01	2.01	1.96	0.87	-1.02	1.23	-0.77	1.40	**4.96**
1878	1,6,8,14,30,31,34,38,40,42,46,48,52,53,54	0.79	-2.45	1.33	0.78	0.68	-0.30	1.52	-1.17	-3.23	0.01	1.69	1.01	0.39	-1.02	1.23	-0.77	1.40	**1.87**
1879	1,6,8,14,30,31,34,38,40,42,47,50,54	-0.10	-2.19	0.48	-0.27	1.56	0.55	0.80	-1.17	-2.52	0.24	0.41	0.05	0.05	-1.02	1.23	-0.77	1.40	**-1.27**
1880	1,6,8,14,30,31,34,38,40,42,49,53,54	-0.14	-2.45	0.46	-0.32	1.53	-0.30	0.56	-0.65	-3.10	0.11	0.59	1.01	0.02	-1.02	1.23	-0.77	1.40	**-1.86**
1881	1,6,8,14,30,31,34,38,41,44,55	0.37	-3.23	1.21	-0.55	1.41	-0.73	0.56	-1.35	-2.78	0.16	0.88	0.05	0.54	-1.02	1.23	-0.77	1.40	**-2.62**
1882	1,6,8,14,30,31,34,38,41,45,55	2.07	-2.19	2.05	0.47	0.92	1.41	1.75	-0.77	-1.45	0.97	1.59	0.05	1.42	-1.02	1.23	-0.77	1.40	**9.12**
1883	1,6,8,14,30,31,34,38,43,47,46,48,51	1.12	-2.71	1.68	1.25	0.19	0.55	1.75	-1.35	-3.35	0.04	2.02	1.96	0.88	-1.02	1.23	-0.77	1.40	**4.86**
1884	1,6,8,14,30,31,34,38,43,47,46,48,52,53,54	0.79	-2.71	1.33	0.86	0.73	-0.30	1.52	-1.17	-3.23	0.04	1.70	1.01	0.39	-1.02	1.23	-0.77	1.40	**1.78**
1885	1,6,8,14,30,31,34,38,43,47,49,53,54	-0.14	-2.45	0.46	-0.24	1.58	-0.30	0.56	-0.65	-3.10	0.14	0.60	1.01	0.02	-1.02	1.23	-0.77	1.40	**-1.69**
1886	1,6,8,14,30,31,34,38,43,50,54	-0.24	-2.97	0.44	-0.36	1.51	-0.30	0.80	-1.17	-2.52	0.19	0.35	0.05	-0.02	-1.02	1.23	-0.77	1.40	**-3.41**
1887	1,6,8,14,30,33,37,40,41,44,55	0.40	-3.23	1.21	-0.54	0.33	-0.30	0.80	-1.71	-3.40	0.17	0.90	0.05	0.58	-1.02	1.23	-0.77	-0.72	**-6.04**
1888	1,6,8,14,30,33,37,40,41,45,55	2.10	-2.19	2.05	0.48	-0.16	1.84	1.99	-1.14	-2.08	0.98	1.61	0.05	1.46	-1.02	1.23	-0.77	-0.72	**5.70**
1889	1,6,8,14,30,33,37,40,43,47,46,48,51	1.14	-2.19	1.69	1.25	-0.89	0.98	1.99	-1.71	-3.98	0.04	2.04	1.96	0.92	-1.02	1.23	-0.77	-0.72	**1.96**
1890	1,6,8,14,30,33,37,40,43,47,46,48,52,53,54	0.82	-2.19	1.33	0.87	-0.35	0.13	1.75	-1.54	-3.85	0.04	1.72	1.01	0.43	-1.02	1.23	-0.77	-0.72	**-1.13**

Table F-2: Raw Scores for All Routes

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
1891	1,6,8,14,30,33,37,40,43,47,49,53,54	-0.11	-1.93	0.46	-0.23	0.50	0.13	0.80	-1.02	-3.73	0.15	0.61	1.01	0.06	-1.02	1.23	-0.77	-0.72	**-4.59**
1892	1,6,8,14,30,33,37,40,43,50,54	-0.21	-2.45	0.45	-0.35	0.44	0.13	1.04	-1.54	-3.15	0.19	0.37	0.05	0.02	-1.02	1.23	-0.77	-0.72	**-6.31**
1893	1,6,8,14,30,33,37,42,46,48,51	1.01	-2.97	1.65	1.18	-0.93	0.13	1.99	-1.71	-3.98	0.01	2.00	1.96	0.84	-1.02	1.23	-0.77	-0.72	**-0.11**
1894	1,6,8,14,30,33,37,42,46,48,52,53,54	0.68	-2.97	1.30	0.79	-0.39	-0.73	1.75	-1.54	-3.85	0.01	1.68	1.01	0.36	-1.02	1.23	-0.77	-0.72	**-3.20**
1895	1,6,8,14,30,33,37,42,47,50,54	-0.20	-2.71	0.45	-0.26	0.49	0.13	1.04	-1.54	-3.15	0.24	0.39	0.05	0.02	-1.02	1.23	-0.77	-0.72	**-6.34**
1896	1,6,8,14,30,33,37,42,49,53,54	-0.24	-2.97	0.43	-0.31	0.46	-0.73	0.80	-1.02	-3.73	0.12	0.58	1.01	-0.01	-1.02	1.23	-0.77	-0.72	**-6.93**
1897	1,6,8,14,32,46,47,50,54	1.42	-1.93	1.90	-0.54	0.42	0.98	2.71	-2.13	-1.50	0.77	0.85	0.05	1.54	-0.50	1.23	-0.77	0.98	**5.48**
1898	1,6,8,14,32,46,49,53,54	1.37	-2.19	1.88	-0.59	0.40	0.13	2.47	-1.61	-2.08	0.64	1.01	1.01	1.50	-0.50	1.23	-0.77	0.98	**4.87**
1899	1,6,8,14,32,48,51	0.87	-2.71	2.63	-1.18	-1.56	0.98	3.19	-2.31	-2.33	0.54	0.50	0.05	2.01	-0.50	1.23	-0.77	0.98	**1.63**
1900	1,6,8,14,32,48,52,53,54	0.55	-2.71	2.27	-1.57	-1.02	0.13	2.95	-2.13	-2.20	0.54	0.18	-0.90	1.53	-0.50	1.23	-0.77	0.98	**-1.46**
1901	1,6,9,11,13,12,14,30,31,34,35,37,40,41,44,55	0.69	-2.19	0.56	1.04	1.30	0.55	0.32	0.02	-0.65	0.42	0.65	-0.90	0.31	-0.86	1.23	-0.77	-0.72	**1.01**
1902	1,6,9,11,13,12,14,30,31,34,35,37,40,41,45,55	2.39	-1.15	1.40	2.06	0.81	2.70	1.52	0.60	0.68	1.23	1.36	-0.90	1.19	-0.86	1.23	-0.77	-0.72	**12.75**
1903	1,6,9,11,13,12,14,30,31,34,35,37,40,43,47,46,48,51	1.43	-1.15	1.03	2.84	0.08	1.84	1.52	0.02	-1.22	0.30	1.79	1.01	0.65	-0.86	1.23	-0.77	-0.72	**9.01**
1904	1,6,9,11,13,12,14,30,31,34,35,37,40,43,47,46,48,52,53,54	1.11	-1.15	0.68	2.45	0.62	0.98	1.28	0.20	-1.10	0.30	1.47	0.05	0.16	-0.86	1.23	-0.77	-0.72	**5.92**
1905	1,6,9,11,13,12,14,30,31,34,35,37,40,43,47,49,53,54	0.18	-0.90	-0.19	1.35	1.47	0.98	0.32	0.72	-0.97	0.41	0.36	0.05	-0.21	-0.86	1.23	-0.77	-0.72	**2.46**
1906	1,6,9,11,13,12,14,30,31,34,35,37,40,43,50,54	0.08	-1.41	-0.21	1.23	1.40	0.98	0.56	0.20	-0.39	0.45	0.12	-0.90	-0.25	-0.86	1.23	-0.77	-0.72	**0.74**
1907	1,6,9,11,13,12,14,30,31,34,35,37,42,46,48,51	1.30	-1.93	0.99	2.76	0.04	0.98	1.52	0.02	-1.22	0.27	1.75	1.01	0.57	-0.86	1.23	-0.77	-0.72	**6.93**
1908	1,6,9,11,13,12,14,30,31,34,35,37,42,46,48,52,53,54	0.98	-1.93	0.64	2.37	0.57	0.13	1.28	0.20	-1.10	0.27	1.43	0.05	0.09	-0.86	1.23	-0.77	-0.72	**3.85**
1909	1,6,9,11,13,12,14,30,31,34,35,37,42,47,50,54	0.09	-1.67	-0.21	1.33	1.45	0.98	0.56	0.20	-0.39	0.50	0.14	-0.90	-0.25	-0.86	1.23	-0.77	-0.72	**0.71**
1910	1,6,9,11,13,12,14,30,31,34,35,37,42,49,53,54	0.05	-1.93	-0.23	1.27	1.43	0.13	0.32	0.72	-0.97	0.37	0.33	0.05	-0.28	-0.86	1.23	-0.77	-0.72	**0.12**
1911	1,6,9,11,13,12,14,30,31,34,36,39,41,40,42,46,48,51	2.63	-1.15	2.12	3.02	-0.58	0.98	2.23	0.17	-1.25	2.24	0.68	1.01	1.62	-0.86	1.23	-0.77	-0.72	**12.59**
1912	1,6,9,11,13,12,14,30,31,34,36,39,41,40,42,46,48,52,53,54	2.31	-1.15	1.77	2.63	-0.04	0.13	1.99	0.34	-1.13	2.24	0.36	0.05	1.13	-0.86	1.23	-0.77	-0.72	**9.50**
1913	1,6,9,11,13,12,14,30,31,34,36,39,41,40,42,47,50,54	1.42	-0.90	0.92	1.58	0.84	0.98	1.28	0.34	-0.42	2.47	-0.92	-0.90	0.80	-0.86	1.23	-0.77	-0.72	**6.36**
1914	1,6,9,11,13,12,14,30,31,34,36,39,41,40,42,49,53,54	1.38	-1.15	0.90	1.53	0.81	0.13	1.04	0.86	-1.00	2.35	-0.74	0.05	0.76	-0.86	1.23	-0.77	-0.72	**5.78**
1915	1,6,9,11,13,12,14,30,31,34,36,39,41,43,47,46,48,51	2.64	-0.90	2.12	3.09	-0.54	0.98	2.23	0.17	-1.25	2.28	0.69	1.01	1.62	-0.86	1.23	-0.77	-0.72	**13.02**
1916	1,6,9,11,13,12,14,30,31,34,36,39,41,43,47,46,48,52,53,54	2.31	-0.90	1.77	2.71	0.00	0.13	1.99	0.34	-1.13	2.28	0.37	0.05	1.14	-0.86	1.23	-0.77	-0.72	**9.93**
1917	1,6,9,11,13,12,14,30,31,34,36,39,41,43,47,49,53,54	1.38	-0.64	0.90	1.61	0.85	0.13	1.04	0.86	-1.00	2.38	-0.74	0.05	0.77	-0.86	1.23	-0.77	-0.72	**6.47**
1918	1,6,9,11,13,12,14,30,31,34,36,39,41,43,50,54	1.28	-1.15	0.88	1.49	0.79	0.13	1.28	0.34	-0.42	2.42	-0.98	-0.90	0.72	-0.86	1.23	-0.77	-0.72	**4.75**
1919	1,6,9,11,13,12,14,30,31,34,36,39,44,55	0.35	-2.45	1.23	1.30	0.68	-0.30	0.08	0.17	-0.68	2.40	-1.13	-0.90	0.66	-0.86	1.23	-0.77	-0.72	**0.27**
1920	1,6,9,11,13,12,14,30,31,34,36,39,45,55	2.05	-1.41	2.07	2.32	0.19	1.84	1.28	0.74	0.65	3.21	-0.42	-0.90	1.53	-0.86	1.23	-0.77	-0.72	**12.01**
1921	1,6,9,11,13,12,14,30,31,34,38,40,42,46,48,51	1.34	-1.93	0.99	2.73	0.75	1.41	1.52	0.39	-0.90	0.28	1.71	1.01	0.58	-0.86	1.23	-0.77	1.40	**10.89**
1922	1,6,9,11,13,12,14,30,31,34,38,40,42,46,48,52,53,54	1.01	-1.93	0.64	2.34	1.29	0.55	1.28	0.57	-0.77	0.28	1.39	0.05	0.10	-0.86	1.23	-0.77	1.40	**7.80**
1923	1,6,9,11,13,12,14,30,31,34,38,40,42,47,50,54	0.13	-1.67	-0.21	1.29	2.17	1.41	0.56	0.57	-0.07	0.51	0.10	-0.90	-0.24	-0.86	1.23	-0.77	1.40	**4.66**
1924	1,6,9,11,13,12,14,30,31,34,38,40,42,49,53,54	0.09	-1.93	-0.23	1.24	2.14	0.55	0.32	1.09	-0.65	0.38	0.29	0.05	-0.27	-0.86	1.23	-0.77	1.40	**4.08**
1925	1,6,9,11,13,12,14,30,31,34,38,41,44,55	0.60	-2.71	0.52	1.01	2.02	0.13	0.32	0.39	-0.32	0.44	0.58	-0.90	0.25	-0.86	1.23	-0.77	1.40	**3.31**
1926	1,6,9,11,13,12,14,30,31,34,38,41,45,55	2.30	-1.67	1.36	2.03	1.52	2.27	1.52	0.97	1.00	1.25	1.28	-0.90	1.13	-0.86	1.23	-0.77	1.40	**15.05**
1927	1,6,9,11,13,12,14,30,31,34,38,43,47,46,48,51	1.34	-2.19	1.00	2.81	0.80	1.41	1.52	0.39	-0.90	0.31	1.71	1.01	0.59	-0.86	1.23	-0.77	1.40	**10.80**
1928	1,6,9,11,13,12,14,30,31,34,38,43,47,46,48,52,53,54	1.02	-2.19	0.64	2.42	1.34	0.55	1.28	0.57	-0.77	0.31	1.40	0.05	0.10	-0.86	1.23	-0.77	1.40	**7.71**
1929	1,6,9,11,13,12,14,30,31,34,38,43,47,49,53,54	0.09	-1.93	-0.23	1.32	2.19	0.55	0.32	1.09	-0.65	0.42	0.29	0.05	-0.27	-0.86	1.23	-0.77	1.40	**4.25**
1930	1,6,9,11,13,12,14,30,31,34,38,43,50,54	-0.01	-2.45	-0.25	1.20	2.12	0.55	0.56	0.57	-0.07	0.46	0.05	-0.90	-0.31	-0.86	1.23	-0.77	1.40	**2.53**
1931	1,6,9,11,13,12,14,30,33,37,40,41,44,55	0.62	-2.71	0.53	1.02	0.94	0.55	0.56	0.02	-0.95	0.44	0.60	-0.90	0.29	-0.86	1.23	-0.77	-0.72	**-0.11**
1932	1,6,9,11,13,12,14,30,33,37,40,41,45,55	2.32	-1.67	1.37	2.04	0.45	2.70	1.75	0.60	0.38	1.25	1.31	-0.90	1.17	-0.86	1.23	-0.77	-0.72	**11.63**
1933	1,6,9,11,13,12,14,30,33,37,40,43,47,46,48,51	1.37	-1.67	1.00	2.82	-0.28	1.84	1.75	0.02	-1.52	0.32	1.73	1.01	0.63	-0.86	1.23	-0.77	-0.72	**7.89**
1934	1,6,9,11,13,12,14,30,33,37,40,43,47,46,48,52,53,54	1.04	-1.67	0.64	2.43	0.26	0.98	1.52	0.20	-1.40	0.32	1.41	0.05	0.14	-0.86	1.23	-0.77	-0.72	**4.80**
1935	1,6,9,11,13,12,14,30,33,37,40,43,47,49,53,54	0.11	-1.41	-0.22	1.33	1.11	0.98	0.56	0.72	-1.27	0.42	0.31	0.05	-0.23	-0.86	1.23	-0.77	-0.72	**1.34**
1936	1,6,9,11,13,12,14,30,33,37,40,43,50,54	0.01	-1.93	-0.24	1.21	1.05	0.98	0.80	0.20	-0.69	0.47	0.07	-0.90	-0.27	-0.86	1.23	-0.77	-0.72	**-0.38**
1937	1,6,9,11,13,12,14,30,33,37,42,46,48,51	1.24	-2.45	0.96	2.74	-0.32	0.98	1.75	0.02	-1.52	0.29	1.69	1.01	0.55	-0.86	1.23	-0.77	-0.72	**5.82**
1938	1,6,9,11,13,12,14,30,33,37,42,46,48,52,53,54	0.91	-2.45	0.61	2.35	0.22	0.13	1.52	0.20	-1.40	0.29	1.38	0.05	0.07	-0.86	1.23	-0.77	-0.72	**2.73**
1939	1,6,9,11,13,12,14,30,33,37,42,47,50,54	0.03	-2.19	-0.24	1.30	1.10	0.98	0.80	0.20	-0.69	0.52	0.09	-0.90	-0.27	-0.86	1.23	-0.77	-0.72	**-0.41**
1940	1,6,9,11,13,12,14,30,33,37,42,49,53,54	-0.02	-2.45	-0.26	1.25	1.07	0.13	0.56	0.72	-1.27	0.39	0.27	0.05	-0.30	-0.86	1.23	-0.77	-0.72	**-0.99**
1941	1,6,9,11,13,12,14,32,46,47,50,54	1.64	-1.41	1.21	1.02	1.03	1.84	2.47	-0.40	0.96	1.04	0.54	-0.90	1.25	-0.33	1.23	-0.77	0.98	**11.41**
1942	1,6,9,11,13,12,14,32,46,49,53,54	1.60	-1.67	1.20	0.97	1.00	0.98	2.23	0.13	0.38	0.92	0.70	0.05	1.21	-0.33	1.23	-0.77	0.98	**10.81**
1943	1,6,9,11,13,12,14,32,48,51	1.10	-2.19	1.94	0.38	-0.95	1.84	2.95	-0.57	0.13	0.81	0.20	-0.90	1.72	-0.33	1.23	-0.77	0.98	**7.56**
1944	1,6,9,11,13,12,14,32,48,52,53,54	0.77	-2.19	1.59	-0.01	-0.41	0.98	2.71	-0.40	0.25	0.81	-0.12	-1.85	1.24	-0.33	1.23	-0.77	0.98	**4.47**
1945	1,6,9,11,13,15,23,26,30,32,46,47,50,54	1.03	0.92	0.39	-1.09	0.21	1.41	1.04	-0.17	2.05	-0.16	0.79	-0.90	1.00	-0.56	1.23	1.14	0.98	**9.29**
1946	1,6,9,11,13,15,23,26,30,32,46,49,53,54	0.98	0.66	0.37	-1.14	0.18	0.55	0.80	0.35	1.47	-0.29	0.95	0.05	0.96	-0.56	1.23	1.14	0.98	**8.69**
1947	1,6,9,11,13,15,23,26,30,32,48,51	0.48	0.14	1.12	-1.73	-1.78	1.41	1.52	-0.35	1.22	-0.39	0.44	-0.90	1.47	-0.56	1.23	1.14	0.98	**5.44**
1948	1,6,9,11,13,15,23,26,30,32,48,52,53,54	0.16	0.14	0.77	-2.12	-1.24	0.55	1.28	-0.17	1.34	-0.39	0.12	-1.85	0.99	-0.56	1.23	1.14	0.98	**2.35**
1949	1,6,9,11,13,15,23,26,31,34,35,37,40,41,44,55	-0.80	-0.38	-0.50	-1.07	0.47	-0.73	-1.59	0.25	0.44	-0.78	-0.02	-0.90	-0.53	-1.29	1.23	1.14	-0.72	**-5.78**
1950	1,6,9,11,13,15,23,26,31,34,35,37,40,41,45,55	0.90	0.66	0.34	-0.05	-0.02	1.41	-0.40	0.82	1.77	0.03	0.69	-0.90	0.34	-1.29	1.23	1.14	-0.72	**5.96**
1951	1,6,9,11,13,15,23,26,31,34,35,37,40,43,47,46,48,51	-0.05	0.66	-0.02	0.73	-0.75	0.55	-0.40	0.25	-0.13	-0.90	1.11	1.01	-0.20	-1.29	1.23	1.14	-0.72	**2.22**
1952	1,6,9,11,13,15,23,26,31,34,35,37,40,43,47,46,48,52,53,54	-0.38	0.66	-0.38	0.34	-0.21	-0.30	-0.64	0.42	-0.01	-0.90	0.80	0.05	-0.68	-1.29	1.23	1.14	-0.72	**-0.87**
1953	1,6,9,11,13,15,23,26,31,34,35,37,40,43,47,49,53,54	-1.31	0.92	-1.25	-0.76	0.64	-0.30	-1.59	0.94	0.12	-0.80	-0.31	0.05	-1.05	-1.29	1.23	1.14	-0.72	**-4.33**

Table F-2: Raw Scores for All Routes

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
1954	1,6,9,11,13,15,23,26,31,34,35,37,40,43,50,54	-1.41	0.40	-1.27	-0.88	0.58	-0.30	-1.35	0.42	0.70	-0.75	-0.55	-0.90	-1.10	-1.29	1.23	1.14	-0.72	**-6.05**
1955	1,6,9,11,13,15,23,26,31,34,35,37,42,46,48,51	-0.18	-0.12	-0.06	0.65	-0.79	-0.30	-0.40	0.25	-0.13	-0.93	1.08	1.01	-0.27	-1.29	1.23	1.14	-0.72	**0.15**
1956	1,6,9,11,13,15,23,26,31,34,35,37,42,46,48,52,53,54	-0.51	-0.12	-0.42	0.26	-0.25	-1.16	-0.64	0.42	-0.01	-0.93	0.76	0.05	-0.76	-1.29	1.23	1.14	-0.72	**-2.94**
1957	1,6,9,11,13,15,23,26,31,34,35,37,42,47,50,54	-1.40	0.14	-1.27	-0.79	0.63	-0.30	-1.35	0.42	0.70	-0.70	-0.53	-0.90	-1.09	-1.29	1.23	1.14	-0.72	**-6.08**
1958	1,6,9,11,13,15,23,26,31,34,35,37,42,49,53,54	-1.44	-0.12	-1.28	-0.84	0.60	-1.16	-1.59	0.94	0.12	-0.83	-0.35	0.05	-1.13	-1.29	1.23	1.14	-0.72	**-6.66**
1959	1,6,9,11,13,15,23,26,31,34,36,39,41,40,42,46,48,51	1.15	0.66	1.07	0.90	-1.41	-0.30	0.32	0.39	-0.16	1.04	0.01	1.01	0.77	-1.29	1.23	1.14	-0.72	**5.80**
1960	1,6,9,11,13,15,23,26,31,34,36,39,41,40,42,46,48,52,53,54	0.82	0.66	0.71	0.52	-0.87	-1.16	0.08	0.57	-0.04	1.04	-0.31	0.05	0.29	-1.29	1.23	1.14	-0.72	**2.72**
1961	1,6,9,11,13,15,23,26,31,34,36,39,41,40,42,47,50,54	-0.06	0.92	-0.14	-0.53	0.01	-0.30	-0.64	0.57	0.67	1.27	-1.60	-0.90	-0.05	-1.29	1.23	1.14	-0.72	**-0.42**
1962	1,6,9,11,13,15,23,26,31,34,36,39,41,40,42,49,53,54	-0.11	0.66	-0.16	-0.58	-0.02	-1.16	-0.87	1.09	0.09	1.14	-1.41	0.05	-0.09	-1.29	1.23	1.14	-0.72	**-1.01**
1963	1,6,9,11,13,15,23,26,31,34,36,39,41,43,47,46,48,51	1.15	0.92	1.07	0.98	-1.36	-0.30	0.32	0.39	-0.16	1.07	0.02	1.01	0.77	-1.29	1.23	1.14	-0.72	**6.23**
1964	1,6,9,11,13,15,23,26,31,34,36,39,41,43,47,46,48,52,53,54	0.82	0.92	0.71	0.60	-0.83	-1.16	0.08	0.57	-0.04	1.07	-0.30	0.05	0.29	-1.29	1.23	1.14	-0.72	**3.15**
1965	1,6,9,11,13,15,23,26,31,34,36,39,41,43,47,49,53,54	-0.10	1.18	-0.16	-0.50	0.02	-1.16	-0.87	1.09	0.09	1.18	-1.41	0.05	-0.08	-1.29	1.23	1.14	-0.72	**-0.32**
1966	1,6,9,11,13,15,23,26,31,34,36,39,41,43,50,54	-0.20	0.66	-0.17	-0.62	-0.04	-1.16	-0.64	0.57	0.67	1.22	-1.65	-0.90	-0.12	-1.29	1.23	1.14	-0.72	**-2.04**
1967	1,6,9,11,13,15,23,26,31,34,36,39,44,55	-1.14	-0.64	0.17	-0.81	-0.15	-1.59	-1.83	0.39	0.41	1.20	-1.80	-0.90	-0.19	-1.29	1.23	1.14	-0.72	**-6.51**
1968	1,6,9,11,13,15,23,26,31,34,36,39,45,55	0.56	0.40	1.01	0.20	-0.64	0.55	-0.64	0.97	1.74	2.01	-1.09	-0.90	0.69	-1.29	1.23	1.14	-0.72	**5.22**
1969	1,6,9,11,13,15,23,26,31,34,38,40,42,46,48,51	-0.15	-0.12	-0.06	0.62	-0.07	0.13	-0.40	0.61	0.19	-0.92	1.04	1.01	-0.26	-1.29	1.23	1.14	1.40	**4.10**
1970	1,6,9,11,13,15,23,26,31,34,38,40,42,46,48,52,53,54	-0.47	-0.12	-0.42	0.23	0.46	-0.73	-0.64	0.79	0.32	-0.92	0.72	0.05	-0.75	-1.29	1.23	1.14	1.40	**1.02**
1971	1,6,9,11,13,15,23,26,31,34,38,40,42,47,50,54	-1.36	0.14	-1.27	-0.82	1.34	0.13	-1.35	0.79	1.02	-0.69	-0.57	-0.90	-1.08	-1.29	1.23	1.14	1.40	**-2.12**
1972	1,6,9,11,13,15,23,26,31,34,38,40,42,49,53,54	-1.40	-0.12	-1.29	-0.87	1.32	-0.73	-1.59	1.31	0.44	-0.82	-0.38	0.05	-1.12	-1.29	1.23	1.14	1.40	**-2.71**
1973	1,6,9,11,13,15,23,26,31,34,38,41,44,55	-0.89	-0.90	-0.54	-1.10	1.19	-1.16	-1.59	0.61	0.77	-0.76	-0.09	-0.90	-0.60	-1.29	1.23	1.14	1.40	**-3.47**
1974	1,6,9,11,13,15,23,26,31,34,38,41,45,55	0.81	0.14	0.30	-0.08	0.70	0.98	-0.40	1.19	2.09	0.05	0.61	-0.90	0.28	-1.29	1.23	1.14	1.40	**8.26**
1975	1,6,9,11,13,15,23,26,31,34,38,43,47,46,48,51	-0.14	-0.38	-0.06	0.70	-0.03	0.13	-0.40	0.61	0.19	-0.89	1.04	1.01	-0.26	-1.29	1.23	1.14	1.40	**4.01**
1976	1,6,9,11,13,15,23,26,31,34,38,43,47,46,48,52,53,54	-0.47	-0.38	-0.42	0.31	0.51	-0.73	-0.64	0.79	0.32	-0.89	0.72	0.05	-0.74	-1.29	1.23	1.14	1.40	**0.93**
1977	1,6,9,11,13,15,23,26,31,34,38,43,47,49,53,54	-1.40	-0.12	-1.28	-0.79	1.36	-0.73	-1.59	1.31	0.44	-0.78	-0.38	0.05	-1.12	-1.29	1.23	1.14	1.40	**-2.54**
1978	1,6,9,11,13,15,23,26,31,34,38,43,50,54	-1.50	-0.64	-1.30	-0.91	1.29	-0.73	-1.35	0.79	1.02	-0.74	-0.62	-0.90	-1.16	-1.29	1.23	1.14	1.40	**-4.26**
1979	1,6,9,11,13,15,23,26,33,37,40,41,44,55	-0.86	-1.41	-0.53	-1.09	0.11	-0.73	-1.35	0.25	0.14	-0.76	-0.07	-0.90	-0.55	-1.29	1.23	1.14	-0.72	**-7.41**
1980	1,6,9,11,13,15,23,26,33,37,40,41,45,55	0.84	-0.38	0.31	-0.07	-0.38	1.41	-0.16	0.82	1.47	0.05	0.64	-0.90	0.32	-1.29	1.23	1.14	-0.72	**4.33**
1981	1,6,9,11,13,15,23,26,33,37,40,43,47,46,48,51	-0.12	-0.38	-0.06	0.71	-1.10	0.55	-0.16	0.25	-0.43	-0.88	1.06	1.01	-0.22	-1.29	1.23	1.14	-0.72	**0.59**
1982	1,6,9,11,13,15,23,26,33,37,40,43,47,46,48,52,53,54	-0.44	-0.38	-0.41	0.32	-0.57	-0.30	-0.40	0.42	-0.31	-0.88	0.74	0.05	-0.70	-1.29	1.23	1.14	-0.72	**-2.50**
1983	1,6,9,11,13,15,23,26,33,37,40,43,47,49,53,54	-1.37	-0.12	-1.28	-0.78	0.28	-0.30	-1.35	0.94	-0.18	-0.78	-0.36	0.05	-1.07	-1.29	1.23	1.14	-0.72	**-5.96**
1984	1,6,9,11,13,15,23,26,33,37,40,43,50,54	-1.47	-0.64	-1.30	-0.90	0.22	-0.30	-1.11	0.42	0.40	-0.73	-0.60	-0.90	-1.12	-1.29	1.23	1.14	-0.72	**-7.68**
1985	1,6,9,11,13,15,23,26,33,37,42,46,48,51	-0.25	-1.15	-0.09	0.63	-1.15	-0.30	-0.16	0.25	-0.43	-0.92	1.03	1.01	-0.29	-1.29	1.23	1.14	-0.72	**-1.49**
1986	1,6,9,11,13,15,23,26,33,37,42,46,48,52,53,54	-0.58	-1.15	-0.45	0.24	-0.61	-1.16	-0.40	0.42	-0.31	-0.92	0.71	0.05	-0.78	-1.29	1.23	1.14	-0.72	**-4.57**
1987	1,6,9,11,13,15,23,26,33,37,42,47,50,54	-1.46	-0.90	-1.30	-0.81	0.27	-0.30	-1.11	0.42	0.40	-0.68	-0.58	-0.90	-1.11	-1.29	1.23	1.14	-0.72	**-7.71**
1988	1,6,9,11,13,15,23,26,33,37,42,49,53,54	-1.50	-1.15	-1.32	-0.86	0.24	-1.16	-1.35	0.94	-0.18	-0.81	-0.40	0.05	-1.15	-1.29	1.23	1.14	-0.72	**-8.30**
1989	1,6,9,11,13,15,23,27,28,31,30,32,46,47,50,54	1.06	0.92	0.35	-1.06	0.41	1.41	1.04	-0.17	1.69	0.21	0.53	-0.90	0.96	-0.56	1.23	-0.77	0.98	**7.34**
1990	1,6,9,11,13,15,23,27,28,31,30,32,46,49,53,54	1.02	0.66	0.33	-1.11	0.38	0.55	0.80	0.35	1.11	0.08	0.69	0.05	0.93	-0.56	1.23	-0.77	0.98	**6.73**
1991	1,6,9,11,13,15,23,27,28,31,30,32,48,51	0.52	0.14	1.08	-1.70	-1.57	1.41	1.52	-0.35	0.87	-0.02	0.18	-0.90	1.44	-0.56	1.23	-0.77	0.98	**3.48**
1992	1,6,9,11,13,15,23,27,28,31,30,32,48,52,53,54	0.19	0.14	0.73	-2.09	-1.03	0.55	1.28	-0.17	0.99	-0.02	-0.14	-1.85	0.95	-0.56	1.23	-0.77	0.98	**0.40**
1993	1,6,9,11,13,15,23,27,28,31,33,37,40,41,44,55	-0.83	-0.90	-0.57	-1.06	0.32	-0.73	-1.35	0.25	-0.21	-0.39	-0.33	-0.90	-0.59	-1.29	1.23	-0.77	-0.72	**-8.85**
1994	1,6,9,11,13,15,23,27,28,31,33,37,40,41,45,55	0.87	0.14	0.27	-0.05	-0.17	1.41	-0.16	0.82	1.11	0.42	0.38	-0.90	0.29	-1.29	1.23	-0.77	-0.72	**2.89**
1995	1,6,9,11,13,15,23,27,28,31,33,37,40,43,47,46,48,51	-0.08	0.14	-0.10	0.73	-0.90	0.55	-0.16	0.25	-0.79	-0.51	0.80	1.01	-0.25	-1.29	1.23	-0.77	-0.72	**-0.85**
1996	1,6,9,11,13,15,23,27,28,31,33,37,40,43,47,46,48,52,53,54	-0.41	0.14	-0.45	0.35	-0.36	-0.30	-0.40	0.42	-0.66	-0.51	0.48	0.05	-0.74	-1.29	1.23	-0.77	-0.72	**-3.94**
1997	1,6,9,11,13,15,23,27,28,31,33,37,40,43,47,49,53,54	-1.34	0.40	-1.32	-0.75	0.49	-0.30	-1.35	0.94	-0.54	-0.41	-0.62	0.05	-1.11	-1.29	1.23	-0.77	-0.72	**-7.40**
1998	1,6,9,11,13,15,23,27,28,31,33,37,40,43,50,54	-1.44	-0.12	-1.34	-0.87	0.43	-0.30	-1.11	0.42	0.04	-0.37	-0.86	-0.90	-1.15	-1.29	1.23	-0.77	-0.72	**-9.12**
1999	1,6,9,11,13,15,23,27,28,31,33,37,42,46,48,51	-0.21	-0.64	-0.13	0.65	-0.94	-0.30	-0.16	0.25	-0.79	-0.55	0.77	1.01	-0.33	-1.29	1.23	-0.77	-0.72	**-2.93**
2000	1,6,9,11,13,15,23,27,28,31,33,37,42,46,48,52,53,54	-0.54	-0.64	-0.49	0.27	-0.41	-1.16	-0.40	0.42	-0.66	-0.55	0.45	0.05	-0.81	-1.29	1.23	-0.77	-0.72	**-6.01**
2001	1,6,9,11,13,15,23,27,28,31,33,37,42,47,50,54	-1.43	-0.38	-1.34	-0.78	0.47	-0.30	-1.11	0.42	0.04	-0.31	-0.84	-0.90	-1.15	-1.29	1.23	-0.77	-0.72	**-9.15**
2002	1,6,9,11,13,15,23,27,28,31,33,37,42,49,53,54	-1.47	-0.64	-1.36	-0.83	0.45	-1.16	-1.35	0.94	-0.54	-0.44	-0.66	0.05	-1.18	-1.29	1.23	-0.77	-0.72	**-9.74**
2003	1,6,9,11,13,15,23,27,28,34,35,37,40,41,44,55	-0.86	-0.90	-0.57	-1.04	0.68	-0.73	-1.59	0.25	0.09	-0.43	-0.35	-0.90	-0.63	-1.29	1.23	-0.77	-0.72	**-8.54**
2004	1,6,9,11,13,15,23,27,28,34,35,37,40,41,45,55	0.85	0.14	0.27	-0.02	0.19	1.41	-0.40	0.82	1.41	0.38	0.35	-0.90	0.24	-1.29	1.23	-0.77	-0.72	**3.19**
2005	1,6,9,11,13,15,23,27,28,34,35,37,40,43,47,46,48,51	-0.11	0.14	-0.09	0.75	-0.54	0.55	-0.40	0.25	-0.48	-0.56	0.78	1.01	-0.30	-1.29	1.23	-0.77	-0.72	**-0.55**
2006	1,6,9,11,13,15,23,27,28,34,35,37,40,43,47,46,48,52,53,54	-0.44	0.14	-0.45	0.37	0.00	-0.30	-0.64	0.42	-0.36	-0.56	0.46	0.05	-0.78	-1.29	1.23	-0.77	-0.72	**-3.63**
2007	1,6,9,11,13,15,23,27,28,34,35,37,40,43,47,49,53,54	-1.37	0.40	-1.31	-0.73	0.85	-0.30	-1.59	0.94	-0.24	-0.45	-0.64	0.05	-1.15	-1.29	1.23	-0.77	-0.72	**-7.10**
2008	1,6,9,11,13,15,23,27,28,34,35,37,40,43,50,54	-1.46	-0.12	-1.33	-0.85	0.78	-0.30	-1.35	0.42	0.34	-0.41	-0.89	-0.90	-1.20	-1.29	1.23	-0.77	-0.72	**-8.82**
2009	1,6,9,11,13,15,23,27,28,34,35,37,42,46,48,51	-0.24	-0.64	-0.13	0.67	-0.58	-0.30	-0.40	0.25	-0.48	-0.59	0.74	1.01	-0.37	-1.29	1.23	-0.77	-0.72	**-2.62**
2010	1,6,9,11,13,15,23,27,28,34,35,37,42,46,48,52,53,54	-0.57	-0.64	-0.48	0.29	-0.05	-1.16	-0.64	0.42	-0.36	-0.59	0.42	0.05	-0.86	-1.29	1.23	-0.77	-0.72	**-5.70**
2011	1,6,9,11,13,15,23,27,28,34,35,37,42,47,50,54	-1.45	-0.38	-1.33	-0.76	0.83	-0.30	-1.35	0.42	0.34	-0.36	-0.86	-0.90	-1.19	-1.29	1.23	-0.77	-0.72	**-8.84**
2012	1,6,9,11,13,15,23,27,28,34,35,37,42,49,53,54	-1.50	-0.64	-1.35	-0.81	0.80	-1.16	-1.59	0.94	-0.24	-0.48	-0.68	0.05	-1.23	-1.29	1.23	-0.77	-0.72	**-9.43**
2013	1,6,9,11,13,15,23,27,28,34,36,39,41,40,42,46,48,51	1.09	0.14	1.00	0.93	-1.20	-0.30	0.32	0.39	-0.51	1.39	-0.33	1.01	0.67	-1.29	1.23	-0.77	-0.72	**3.04**
2014	1,6,9,11,13,15,23,27,28,34,36,39,41,40,42,46,48,52,53,54	0.76	0.14	0.64	0.54	-0.67	-1.16	0.08	0.57	-0.39	1.39	-0.64	0.05	0.19	-1.29	1.23	-0.77	-0.72	**-0.05**
2015	1,6,9,11,13,15,23,27,28,34,36,39,41,40,42,47,50,54	-0.12	0.40	-0.20	-0.50	0.21	-0.30	-0.64	0.57	0.31	1.62	-1.93	-0.90	-0.15	-1.29	1.23	-0.77	-0.72	**-3.19**
2016	1,6,9,11,13,15,23,27,28,34,36,39,41,40,42,49,53,54	-0.16	0.14	-0.22	-0.56	0.19	-1.16	-0.87	1.09	-0.27	1.49	-1.75	0.05	-0.18	-1.29	1.23	-0.77	-0.72	**-3.77**

Table F-2: Raw Scores for All Routes

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
2017	1,6,9,11,13,15,23,27,28,34,36,39,41,43,47,46,48,51	1.09	0.40	1.00	1.01	-1.16	-0.30	0.32	0.39	-0.51	1.42	-0.32	1.01	0.68	-1.29	1.23	-0.77	-0.72	**3.47**
2018	1,6,9,11,13,15,23,27,28,34,36,39,41,43,47,46,48,52,53,54	0.77	0.40	0.65	0.62	-0.62	-1.16	0.08	0.57	-0.39	1.42	-0.64	0.05	0.19	-1.29	1.23	-0.77	-0.72	**0.38**
2019	1,6,9,11,13,15,23,27,28,34,36,39,41,43,47,49,53,54	-0.16	0.66	-0.22	-0.48	0.23	-1.16	-0.87	1.09	-0.27	1.52	-1.74	0.05	-0.18	-1.29	1.23	-0.77	-0.72	**-3.08**
2020	1,6,9,11,13,15,23,27,28,34,36,39,41,43,50,54	-0.26	0.14	-0.24	-0.59	0.16	-1.16	-0.64	0.57	0.31	1.57	-1.98	-0.90	-0.22	-1.29	1.23	-0.77	-0.72	**-4.80**
2021	1,6,9,11,13,15,23,27,28,34,36,39,44,55	-1.20	-1.15	0.11	-0.79	0.06	-1.59	-1.83	0.39	0.06	1.54	-2.14	-0.90	-0.29	-1.29	1.23	-0.77	-0.72	**-9.28**
2022	1,6,9,11,13,15,23,27,28,34,36,39,45,55	0.51	-0.12	0.95	0.23	-0.43	0.55	-0.64	0.97	1.38	2.35	-1.43	-0.90	0.59	-1.29	1.23	-0.77	-0.72	**2.46**
2023	1,6,9,11,13,15,23,27,28,34,38,40,42,46,48,51	-0.20	-0.64	-0.13	0.64	0.13	0.13	-0.40	0.61	-0.16	-0.58	0.70	1.01	-0.36	-1.29	1.23	-0.77	1.40	**1.34**
2024	1,6,9,11,13,15,23,27,28,34,38,40,42,46,48,52,53,54	-0.53	-0.64	-0.48	0.26	0.67	-0.73	-0.64	0.79	-0.04	-0.58	0.38	0.05	-0.85	-1.29	1.23	-0.77	1.40	**-1.75**
2025	1,6,9,11,13,15,23,27,28,34,38,40,42,47,50,54	-1.41	-0.38	-1.33	-0.79	1.55	0.13	-1.35	0.79	0.67	-0.34	-0.90	-0.90	-1.18	-1.29	1.23	-0.77	1.40	**-4.89**
2026	1,6,9,11,13,15,23,27,28,34,38,40,42,49,53,54	-1.46	-0.64	-1.35	-0.84	1.52	-0.73	-1.59	1.31	0.09	-0.47	-0.72	0.05	-1.22	-1.29	1.23	-0.77	1.40	**-5.47**
2027	1,6,9,11,13,15,23,27,28,34,38,41,44,55	-0.95	-1.41	-0.60	-1.07	1.39	-1.16	-1.59	0.61	0.41	-0.42	-0.43	-0.90	-0.69	-1.29	1.23	-0.77	1.40	**-6.24**
2028	1,6,9,11,13,15,23,27,28,34,38,41,45,55	0.75	-0.38	0.24	-0.05	0.90	0.98	-0.40	1.19	1.74	0.39	0.28	-0.90	0.18	-1.29	1.23	-0.77	1.40	**5.50**
2029	1,6,9,11,13,15,23,27,28,34,38,43,47,46,48,51	-0.20	-0.90	-0.13	0.72	0.18	0.13	-0.40	0.61	-0.16	-0.54	0.71	1.01	-0.36	-1.29	1.23	-0.77	1.40	**1.25**
2030	1,6,9,11,13,15,23,27,28,34,38,43,47,46,48,52,53,54	-0.53	-0.90	-0.48	0.34	0.71	-0.73	-0.64	0.79	-0.04	-0.54	0.39	0.05	-0.84	-1.29	1.23	-0.77	1.40	**-1.84**
2031	1,6,9,11,13,15,23,27,28,34,38,43,47,49,53,54	-1.46	-0.64	-1.35	-0.76	1.57	-0.73	-1.59	1.31	0.09	-0.44	-0.72	0.05	-1.21	-1.29	1.23	-0.77	1.40	**-5.31**
2032	1,6,9,11,13,15,23,27,28,34,38,43,50,54	-1.56	-1.15	-1.37	-0.88	1.50	-0.73	-1.35	0.79	0.67	-0.40	-0.96	-0.90	-1.26	-1.29	1.23	-0.77	1.40	**-7.02**
2033	1,6,9,11,13,16,18,19,22,24,29,36,35,37,40,41,44,55	0.79	0.14	0.60	-0.80	-0.14	0.13	-0.40	-0.87	0.10	-0.55	0.60	-0.90	1.07	1.51	1.23	-0.77	-0.72	**1.00**
2034	1,6,9,11,13,16,18,19,22,24,29,36,35,37,40,41,45,55	2.49	1.18	1.44	0.22	-0.64	2.27	0.80	-0.30	1.42	0.26	1.31	-0.90	1.95	1.51	1.23	-0.77	-0.72	**12.74**
2035	1,6,9,11,13,16,18,19,22,24,29,36,35,37,40,43,47,46,48,51	1.53	1.18	1.08	0.99	-1.36	1.41	0.80	-0.87	-0.47	-0.68	1.73	1.01	1.41	1.51	1.23	-0.77	-0.72	**9.00**
2036	1,6,9,11,13,16,18,19,22,24,29,36,35,37,40,43,47,46,48,52,53,54	1.21	1.18	0.72	0.61	-0.82	0.55	0.56	-0.70	-0.35	-0.68	1.41	0.05	0.92	1.51	1.23	-0.77	-0.72	**5.91**
2037	1,6,9,11,13,16,18,19,22,24,29,36,35,37,40,43,47,49,53,54	0.28	1.44	-0.15	-0.49	0.03	0.55	-0.40	-0.18	-0.23	-0.57	0.31	0.05	0.55	1.51	1.23	-0.77	-0.72	**2.45**
2038	1,6,9,11,13,16,18,19,22,24,29,36,35,37,40,43,50,54	0.18	0.92	-0.17	-0.61	-0.04	0.55	-0.16	-0.70	0.36	-0.53	0.07	-0.90	0.51	1.51	1.23	-0.77	-0.72	**0.73**
2039	1,6,9,11,13,16,18,19,22,24,29,36,35,37,42,46,48,51	1.40	0.40	1.04	0.91	-1.41	0.55	0.80	-0.87	-0.47	-0.71	1.70	1.01	1.33	1.51	1.23	-0.77	-0.72	**6.93**
2040	1,6,9,11,13,16,18,19,22,24,29,36,35,37,42,46,48,52,53,54	1.07	0.40	0.68	0.53	-0.87	-0.30	0.56	-0.70	-0.35	-0.71	1.38	0.05	0.85	1.51	1.23	-0.77	-0.72	**3.84**
2041	1,6,9,11,13,16,18,19,22,24,29,36,35,37,42,47,50,54	0.19	0.66	-0.16	-0.52	0.01	0.55	-0.16	-0.70	0.36	-0.48	0.09	-0.90	0.51	1.51	1.23	-0.77	-0.72	**0.70**
2042	1,6,9,11,13,16,18,19,22,24,29,36,35,37,42,49,53,54	0.14	0.40	-0.18	-0.57	-0.02	-0.30	-0.40	-0.18	-0.23	-0.61	0.27	0.05	0.48	1.51	1.23	-0.77	-0.72	**0.12**
2043	1,6,9,11,13,16,18,19,22,24,29,36,38,40,42,46,48,51	1.44	0.66	1.04	0.88	-0.69	0.98	0.80	-0.51	-0.15	-0.70	1.66	1.01	1.34	1.51	1.23	-0.77	1.40	**11.14**
2044	1,6,9,11,13,16,18,19,22,24,29,36,38,40,42,46,48,52,53,54	1.11	0.66	0.68	0.50	-0.15	0.13	0.56	-0.33	-0.03	-0.70	1.34	0.05	0.86	1.51	1.23	-0.77	1.40	**8.05**
2045	1,6,9,11,13,16,18,19,22,24,29,36,38,40,42,47,50,54	0.23	0.92	-0.17	-0.55	0.73	0.98	-0.16	-0.33	0.68	-0.47	0.05	-0.90	0.52	1.51	1.23	-0.77	1.40	**4.91**
2046	1,6,9,11,13,16,18,19,22,24,29,36,38,40,42,49,53,54	0.18	0.66	-0.18	-0.60	0.70	0.13	-0.40	0.19	0.10	-0.59	0.23	0.05	0.49	1.51	1.23	-0.77	1.40	**4.33**
2047	1,6,9,11,13,16,18,19,22,24,29,36,38,41,44,55	0.70	-0.12	0.57	-0.83	0.57	-0.30	-0.40	-0.51	0.42	-0.54	0.52	-0.90	1.01	1.51	1.23	-0.77	1.40	**3.57**
2048	1,6,9,11,13,16,18,19,22,24,29,36,38,41,45,55	2.40	0.92	1.41	0.18	0.08	1.84	0.80	0.07	1.75	0.27	1.23	-0.90	1.89	1.51	1.23	-0.77	1.40	**15.30**
2049	1,6,9,11,13,16,18,19,22,24,29,36,38,43,47,46,48,51	1.44	0.40	1.04	0.96	-0.64	0.98	0.80	-0.51	-0.15	-0.67	1.66	1.01	1.35	1.51	1.23	-0.77	1.40	**11.05**
2050	1,6,9,11,13,16,18,19,22,24,29,36,38,43,47,46,48,52,53,54	1.11	0.40	0.68	0.58	-0.11	0.13	0.56	-0.33	-0.03	-0.67	1.34	0.05	0.86	1.51	1.23	-0.77	1.40	**7.96**
2051	1,6,9,11,13,16,18,19,22,24,29,36,38,43,47,49,53,54	0.19	0.66	-0.18	-0.52	0.74	0.13	-0.40	0.19	0.10	-0.56	0.24	0.05	0.49	1.51	1.23	-0.77	1.40	**4.50**
2052	1,6,9,11,13,16,18,19,22,24,29,36,38,43,50,54	0.09	0.14	-0.20	-0.64	0.68	0.13	-0.16	-0.33	0.68	-0.52	0.00	-0.90	0.45	1.51	1.23	-0.77	1.40	**2.78**
2053	1,6,9,11,13,16,18,19,22,24,29,39,41,40,42,46,48,51	1.64	0.40	1.87	0.54	-2.02	-0.30	1.52	-0.73	-0.50	0.62	0.39	1.01	1.82	1.51	1.23	-0.77	-0.72	**7.49**
2054	1,6,9,11,13,16,18,19,22,24,29,39,41,40,42,46,48,52,53,54	1.31	0.40	1.51	0.15	-1.49	-1.16	1.28	-0.55	-0.38	0.62	0.07	0.05	1.34	1.51	1.23	-0.77	-0.72	**4.41**
2055	1,6,9,11,13,16,18,19,22,24,29,39,41,40,42,47,50,54	0.43	0.66	0.67	-0.89	-0.61	-0.30	0.56	-0.55	0.33	0.85	-1.22	-0.90	1.00	1.51	1.23	-0.77	-0.72	**1.27**
2056	1,6,9,11,13,16,18,19,22,24,29,39,41,40,42,49,53,54	0.39	0.40	0.65	-0.95	-0.63	-1.16	0.32	-0.03	-0.26	0.73	-1.04	0.05	0.96	1.51	1.23	-0.77	-0.72	**0.68**
2057	1,6,9,11,13,16,18,19,22,24,29,39,41,43,47,46,48,51	1.64	0.66	1.87	0.62	-1.98	-0.30	1.52	-0.73	-0.50	0.66	0.39	1.01	1.82	1.51	1.23	-0.77	-0.72	**7.92**
2058	1,6,9,11,13,16,18,19,22,24,29,39,41,43,47,46,48,52,53,54	1.31	0.66	1.52	0.23	-1.44	-1.16	1.28	-0.55	-0.38	0.66	0.07	0.05	1.34	1.51	1.23	-0.77	-0.72	**4.83**
2059	1,6,9,11,13,16,18,19,22,24,29,39,41,43,47,49,53,54	0.39	0.92	0.65	-0.87	-0.59	-1.16	0.32	-0.03	-0.26	0.76	-1.03	0.05	0.97	1.51	1.23	-0.77	-0.72	**1.37**
2060	1,6,9,11,13,16,18,19,22,24,29,39,41,43,50,54	0.29	0.40	0.63	-0.99	-0.66	-1.16	0.56	-0.55	0.33	0.80	-1.27	-0.90	0.92	1.51	1.23	-0.77	-0.72	**-0.35**
2061	1,6,9,11,13,16,18,19,22,24,29,39,44,55	-0.65	-0.90	0.98	-1.18	-0.76	-1.59	-0.64	-0.73	0.07	0.78	-1.43	-0.90	0.86	1.51	1.23	-0.77	-0.72	**-4.83**
2062	1,6,9,11,13,16,18,19,22,24,29,39,45,55	1.05	0.14	1.82	-0.16	-1.25	0.55	0.56	-0.15	1.39	1.59	-0.72	-0.90	1.74	1.51	1.23	-0.77	-0.72	**6.91**
2063	1,6,9,11,13,16,18,19,22,25,29,36,35,37,40,41,44,55	0.57	-0.12	0.54	-1.24	0.19	0.13	-0.16	-0.85	-0.34	-0.48	0.24	-0.90	1.01	1.55	1.23	-0.77	-0.72	**-0.13**
2064	1,6,9,11,13,16,18,19,22,25,29,36,35,37,40,41,45,55	2.27	0.92	1.38	-0.22	-0.30	2.27	1.04	-0.27	0.99	0.33	0.94	-0.90	1.89	1.55	1.23	-0.77	-0.72	**11.61**
2065	1,6,9,11,13,16,18,19,22,25,29,36,35,37,40,43,47,46,48,51	1.32	0.92	1.02	0.56	-1.03	1.41	1.04	-0.85	-0.91	-0.61	1.37	1.01	1.35	1.55	1.23	-0.77	-0.72	**7.87**
2066	1,6,9,11,13,16,18,19,22,25,29,36,35,37,40,43,47,46,48,52,53,54	0.99	0.92	0.66	0.17	-0.49	0.55	0.80	-0.67	-0.79	-0.61	1.05	0.05	0.86	1.55	1.23	-0.77	-0.72	**4.78**
2067	1,6,9,11,13,16,18,19,22,25,29,36,35,37,40,43,47,49,53,54	0.06	1.18	-0.20	-0.93	0.36	0.55	-0.16	-0.15	-0.66	-0.50	-0.06	0.05	0.49	1.55	1.23	-0.77	-0.72	**1.32**
2068	1,6,9,11,13,16,18,19,22,25,29,36,35,37,40,43,50,54	-0.04	0.66	-0.22	-1.04	0.29	0.55	0.08	-0.67	-0.08	-0.46	-0.30	-0.90	0.45	1.55	1.23	-0.77	-0.72	**-0.40**
2069	1,6,9,11,13,16,18,19,22,25,29,36,35,37,42,46,48,51	1.18	0.14	0.98	0.48	-1.07	0.55	1.04	-0.85	-0.91	-0.64	1.33	1.01	1.28	1.55	1.23	-0.77	-0.72	**5.80**
2070	1,6,9,11,13,16,18,19,22,25,29,36,35,37,42,46,48,52,53,54	0.86	0.14	0.63	0.09	-0.54	-0.30	0.80	-0.67	-0.79	-0.64	1.01	0.05	0.79	1.55	1.23	-0.77	-0.72	**2.71**
2071	1,6,9,11,13,16,18,19,22,25,29,36,35,37,42,47,50,54	-0.03	0.40	-0.22	-0.95	0.34	0.55	0.08	-0.67	-0.08	-0.41	-0.28	-0.90	0.45	1.55	1.23	-0.77	-0.72	**-0.43**
2072	1,6,9,11,13,16,18,19,22,25,29,36,35,37,42,49,53,54	-0.07	0.14	-0.24	-1.01	0.32	-0.30	-0.16	-0.15	-0.66	-0.54	-0.09	0.05	0.42	1.55	1.23	-0.77	-0.72	**-1.01**
2073	1,6,9,11,13,16,18,19,22,25,29,36,38,40,42,46,48,51	1.22	0.40	0.98	0.45	-0.36	0.98	1.04	-0.48	-0.59	-0.63	1.29	1.01	1.28	1.55	1.23	-0.77	1.40	**10.01**
2074	1,6,9,11,13,16,18,19,22,25,29,36,38,40,42,46,48,52,53,54	0.90	0.40	0.62	0.06	0.18	0.13	0.80	-0.31	-0.47	-0.63	0.97	0.05	0.80	1.55	1.23	-0.77	1.40	**6.92**
2075	1,6,9,11,13,16,18,19,22,25,29,36,38,40,42,47,50,54	0.01	0.66	-0.22	-0.98	1.06	0.98	0.08	-0.31	0.24	-0.40	-0.32	-0.90	0.46	1.55	1.23	-0.77	1.40	**3.78**
2076	1,6,9,11,13,16,18,19,22,25,29,36,38,40,42,49,53,54	-0.03	0.40	-0.24	-1.04	1.03	0.13	-0.16	0.22	-0.34	-0.52	-0.13	0.05	0.43	1.55	1.23	-0.77	1.40	**3.20**
2077	1,6,9,11,13,16,18,19,22,25,29,36,38,41,44,55	0.48	-0.38	0.51	-1.27	0.91	-0.30	-0.16	-0.48	-0.01	-0.47	0.16	-0.90	0.95	1.55	1.23	-0.77	1.40	**2.44**
2078	1,6,9,11,13,16,18,19,22,25,29,36,38,41,45,55	2.18	0.66	1.35	-0.25	0.41	1.84	1.04	0.09	1.31	0.34	0.86	-0.90	1.83	1.55	1.23	-0.77	1.40	**14.17**
2079	1,6,9,11,13,16,18,19,22,25,29,36,38,43,47,46,48,51	1.23	0.14	0.98	0.53	-0.31	0.98	1.04	-0.48	-0.59	-0.60	1.30	1.01	1.29	1.55	1.23	-0.77	1.40	**9.92**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
2080	1,6,9,11,13,16,18,19,22,25,29,36,38,43,47,46,48,52,53,54	0.90	0.14	0.63	0.14	0.23	0.13	0.80	-0.31	-0.47	-0.60	0.98	0.05	0.80	1.55	1.23	-0.77	1.40	**6.83**
2081	1,6,9,11,13,16,18,19,22,25,29,36,38,43,47,49,53,54	-0.03	0.40	-0.24	-0.96	1.08	0.13	-0.16	0.22	-0.34	-0.49	-0.13	0.05	0.43	1.55	1.23	-0.77	1.40	**3.37**
2082	1,6,9,11,13,16,18,19,22,25,29,36,38,43,50,54	-0.13	-0.12	-0.26	-1.08	1.01	0.13	0.08	-0.31	0.24	-0.45	-0.37	-0.90	0.39	1.55	1.23	-0.77	1.40	**1.65**
2083	1,6,9,11,13,16,18,19,22,25,29,39,41,40,42,46,48,51	1.42	0.14	1.81	0.11	-1.69	-0.30	1.75	-0.71	-0.94	0.69	0.02	1.01	1.76	1.55	1.23	-0.77	-0.72	**6.36**
2084	1,6,9,11,13,16,18,19,22,25,29,39,41,40,42,46,48,52,53,54	1.10	0.14	1.46	-0.28	-1.15	-1.16	1.52	-0.53	-0.82	0.69	-0.30	0.05	1.28	1.55	1.23	-0.77	-0.72	**3.27**
2085	1,6,9,11,13,16,18,19,22,25,29,39,41,40,42,47,50,54	0.21	0.40	0.61	-1.33	-0.27	-0.30	0.80	-0.53	-0.11	0.92	-1.58	-0.90	0.94	1.55	1.23	-0.77	-0.72	**0.13**
2086	1,6,9,11,13,16,18,19,22,25,29,39,41,40,42,49,53,54	0.17	0.14	0.59	-1.38	-0.30	-1.16	0.56	-0.01	-0.69	0.80	-1.40	0.05	0.91	1.55	1.23	-0.77	-0.72	**-0.45**
2087	1,6,9,11,13,16,18,19,22,25,29,39,41,43,47,46,48,51	1.43	0.40	1.81	0.19	-1.65	-0.30	1.75	-0.71	-0.94	0.73	0.03	1.01	1.77	1.55	1.23	-0.77	-0.72	**6.79**
2088	1,6,9,11,13,16,18,19,22,25,29,39,41,43,47,46,48,52,53,54	1.10	0.40	1.46	-0.20	-1.11	-1.16	1.52	-0.53	-0.82	0.73	-0.29	0.05	1.28	1.55	1.23	-0.77	-0.72	**3.70**
2089	1,6,9,11,13,16,18,19,22,25,29,39,41,43,47,49,53,54	0.17	0.66	0.59	-1.30	-0.26	-1.16	0.56	-0.01	-0.69	0.83	-1.40	0.05	0.91	1.55	1.23	-0.77	-0.72	**0.24**
2090	1,6,9,11,13,16,18,19,22,25,29,41,43,50,54	0.07	0.14	0.57	-1.42	-0.32	-1.16	0.80	-0.53	-0.11	0.87	-1.64	-0.90	0.87	1.55	1.23	-0.77	-0.72	**-1.48**
2091	1,6,9,11,13,16,18,19,22,25,29,39,44,55	-0.86	-1.15	0.92	-1.61	-0.43	-1.59	-0.40	-0.71	-0.37	0.85	-1.79	-0.90	0.80	1.55	1.23	-0.77	-0.72	**-5.96**
2092	1,6,9,11,13,16,18,19,22,25,29,39,45,55	0.84	-0.12	1.76	-0.59	-0.92	0.55	0.80	-0.13	0.96	1.66	-1.08	-0.90	1.68	1.55	1.23	-0.77	-0.72	**5.78**
2093	1,6,9,11,13,16,18,21,27,26,30,32,46,47,50,54	1.11	1.70	0.36	-0.58	0.52	2.27	1.52	-0.93	1.74	-0.60	1.43	-0.90	1.05	0.26	1.23	1.14	0.98	**12.28**
2094	1,6,9,11,13,16,18,21,27,26,30,32,46,49,53,54	1.07	1.44	0.34	-0.63	0.49	1.41	1.28	-0.41	1.16	-0.73	1.59	0.05	1.02	0.26	1.23	1.14	0.98	**11.68**
2095	1,6,9,11,13,16,18,21,27,26,30,32,48,51	0.57	0.92	1.09	-1.22	-1.47	2.27	1.99	-1.11	0.91	-0.83	1.08	-0.90	1.52	0.26	1.23	1.14	0.98	**8.43**
2096	1,6,9,11,13,16,18,21,27,26,30,32,48,52,53,54	0.24	0.92	0.73	-1.61	-0.93	1.41	1.75	-0.93	1.04	-0.83	0.76	-1.85	1.04	0.26	1.23	1.14	0.98	**5.34**
2097	1,6,9,11,13,16,18,21,27,26,31,34,35,37,40,41,44,55	-0.71	0.40	-0.53	-0.56	0.78	0.13	-1.11	-0.52	0.14	-1.22	0.63	-0.90	-0.48	-0.46	1.23	1.14	-0.72	**-2.79**
2098	1,6,9,11,13,16,18,21,27,26,31,34,35,37,40,41,45,55	0.99	1.44	0.31	0.46	0.29	2.27	0.08	0.06	1.46	-0.41	1.33	-0.90	0.40	-0.46	1.23	1.14	-0.72	**8.95**
2099	1,6,9,11,13,16,18,21,27,26,31,34,35,37,40,43,47,46,48,51	0.03	1.44	-0.06	1.24	-0.44	1.41	0.08	-0.52	-0.44	-1.34	1.76	1.01	-0.14	-0.46	1.23	1.14	-0.72	**5.21**
2100	1,6,9,11,13,16,18,21,27,26,31,34,35,37,40,43,47,46,48,52,53,54	-0.29	1.44	-0.41	0.85	0.10	0.55	-0.16	-0.34	-0.31	-1.34	1.44	0.05	-0.63	-0.46	1.23	1.14	-0.72	**2.13**
2101	1,6,9,11,13,16,18,21,27,26,31,34,35,37,40,43,47,49,53,54	-1.22	1.70	-1.28	-0.25	0.95	0.55	-1.11	0.18	-0.19	-1.24	0.33	0.05	-1.00	-0.46	1.23	1.14	-0.72	**-1.34**
2102	1,6,9,11,13,16,18,21,27,26,31,34,35,37,40,43,50,54	-1.32	1.18	-1.30	-0.37	0.89	0.55	-0.87	-0.34	0.39	-1.20	0.09	-0.90	-1.04	-0.46	1.23	1.14	-0.72	**-3.06**
2103	1,6,9,11,13,16,18,21,27,26,31,34,35,37,42,46,48,51	-0.10	0.66	-0.09	1.16	-0.48	0.55	0.08	-0.52	-0.44	-1.38	1.72	1.01	-0.22	-0.46	1.23	1.14	-0.72	**3.14**
2104	1,6,9,11,13,16,18,21,27,26,31,34,35,37,42,46,48,52,53,54	-0.43	0.66	-0.45	0.77	0.06	-0.30	-0.16	-0.34	-0.31	-1.38	1.40	0.05	-0.70	-0.46	1.23	1.14	-0.72	**0.05**
2105	1,6,9,11,13,16,18,21,27,26,31,34,35,37,42,47,50,54	-1.31	0.92	-1.30	-0.28	0.94	0.55	-0.87	-0.34	0.39	-1.14	0.12	-0.90	-1.04	-0.46	1.23	1.14	-0.72	**-3.09**
2106	1,6,9,11,13,16,18,21,27,26,31,34,35,37,42,49,53,54	-1.36	0.66	-1.32	-0.33	0.91	-0.30	-1.11	0.18	-0.19	-1.27	0.30	0.05	-1.08	-0.46	1.23	1.14	-0.72	**-3.67**
2107	1,6,9,11,13,16,18,21,27,26,31,34,36,39,41,40,42,46,48,51	1.23	1.44	1.03	1.41	-1.10	0.55	0.80	-0.37	-0.47	0.60	0.65	1.01	0.82	-0.46	1.23	1.14	-0.72	**8.80**
2108	1,6,9,11,13,16,18,21,27,26,31,34,36,39,41,40,42,46,48,52,53,54	0.91	1.44	0.68	1.02	-0.56	-0.30	0.56	-0.20	-0.34	0.60	0.33	0.05	0.34	-0.46	1.23	1.14	-0.72	**5.71**
2109	1,6,9,11,13,16,18,21,27,26,31,34,36,39,41,40,42,47,50,54	0.02	1.70	-0.17	-0.02	0.32	0.55	-0.16	-0.20	0.36	0.83	-0.95	-0.90	0.00	-0.46	1.23	1.14	-0.72	**2.57**
2110	1,6,9,11,13,16,18,21,27,26,31,34,36,39,41,40,42,49,53,54	-0.02	1.44	-0.19	-0.07	0.29	-0.30	-0.40	0.33	-0.22	0.70	-0.77	0.05	-0.03	-0.46	1.23	1.14	-0.72	**1.99**
2111	1,6,9,11,13,16,18,21,27,26,31,34,36,39,41,43,47,46,48,51	1.23	1.70	1.04	1.49	-1.05	0.55	0.80	-0.37	-0.47	0.63	0.66	1.01	0.83	-0.46	1.23	1.14	-0.72	**9.22**
2112	1,6,9,11,13,16,18,21,27,26,31,34,36,39,41,43,47,46,48,52,53,54	0.91	1.70	0.68	1.10	-0.52	-0.30	0.56	-0.20	-0.34	0.63	0.34	0.05	0.34	-0.46	1.23	1.14	-0.72	**6.14**
2113	1,6,9,11,13,16,18,21,27,26,31,34,36,39,41,43,47,49,53,54	-0.02	1.96	-0.19	0.00	0.33	-0.30	-0.40	0.33	-0.22	0.73	-0.76	0.05	-0.03	-0.46	1.23	1.14	-0.72	**2.67**
2114	1,6,9,11,13,16,18,21,27,26,31,34,36,39,41,43,50,54	-0.12	1.44	-0.21	-0.11	0.27	-0.30	-0.16	-0.20	0.36	0.78	-1.01	-0.90	-0.07	-0.46	1.23	1.14	-0.72	**0.95**
2115	1,6,9,11,13,16,18,21,27,26,31,34,36,39,44,55	-1.05	0.14	0.14	-0.31	0.16	-0.73	-1.35	-0.37	0.11	0.75	-1.16	-0.90	-0.13	-0.46	1.23	1.14	-0.72	**-3.52**
2116	1,6,9,11,13,16,18,21,27,26,31,34,36,39,45,55	0.65	1.18	0.98	0.71	-0.33	1.41	-0.16	0.20	1.43	1.56	-0.45	-0.90	0.74	-0.46	1.23	1.14	-0.72	**8.22**
2117	1,6,9,11,13,16,18,21,27,26,31,34,38,40,42,46,48,51	-0.06	0.66	-0.09	1.13	0.24	0.98	0.08	-0.15	-0.11	-1.36	1.68	1.01	-0.21	-0.46	1.23	1.14	1.40	**7.09**
2118	1,6,9,11,13,16,18,21,27,26,31,34,38,40,42,46,48,52,53,54	-0.39	0.66	-0.45	0.74	0.77	0.13	-0.16	0.03	0.01	-1.36	1.36	0.05	-0.70	-0.46	1.23	1.14	1.40	**4.01**
2119	1,6,9,11,13,16,18,21,27,26,31,34,38,40,42,47,50,54	-1.27	0.92	-1.30	-0.31	1.65	0.98	-0.87	0.03	0.72	-1.13	0.08	-0.90	-1.03	-0.46	1.23	1.14	1.40	**0.87**
2120	1,6,9,11,13,16,18,21,27,26,31,34,38,40,42,49,53,54	-1.32	0.66	-1.32	-0.36	1.63	0.13	-1.11	0.55	0.13	-1.26	0.26	0.05	-1.07	-0.46	1.23	1.14	1.40	**0.28**
2121	1,6,9,11,13,16,18,21,27,26,31,34,38,41,44,55	-0.80	-0.12	-0.57	-0.59	1.50	-0.30	-1.11	-0.15	0.46	-1.21	0.55	-0.90	-0.54	-0.46	1.23	1.14	1.40	**-0.48**
2122	1,6,9,11,13,16,18,21,27,26,31,34,38,41,45,55	0.90	0.92	0.27	0.43	1.01	1.84	0.08	0.43	1.78	-0.40	1.26	-0.90	0.33	-0.46	1.23	1.14	1.40	**11.26**
2123	1,6,9,11,13,16,18,21,27,26,31,34,38,43,47,46,48,51	-0.06	0.40	-0.09	1.20	0.28	0.98	0.08	-0.15	-0.11	-1.33	1.69	1.01	-0.21	-0.46	1.23	1.14	1.40	**7.00**
2124	1,6,9,11,13,16,18,21,27,26,31,34,38,43,47,46,48,52,53,54	-0.39	0.40	-0.45	0.82	0.82	0.13	-0.16	0.03	0.01	-1.33	1.37	0.05	-0.69	-0.46	1.23	1.14	1.40	**3.92**
2125	1,6,9,11,13,16,18,21,27,26,31,34,38,43,47,49,53,54	-1.31	0.66	-1.32	-0.28	1.67	0.13	-1.11	0.55	0.13	-1.23	0.26	0.05	-1.06	-0.46	1.23	1.14	1.40	**0.45**
2126	1,6,9,11,13,16,18,21,27,26,31,34,38,43,50,54	-1.41	0.14	-1.34	-0.40	1.60	0.13	-0.87	0.03	0.72	-1.18	0.02	-0.90	-1.11	-0.46	1.23	1.14	1.40	**-1.27**
2127	1,6,9,11,13,16,18,21,27,26,33,37,40,41,44,55	-0.78	-0.64	-0.56	-0.58	0.42	0.13	-0.87	-0.52	-0.16	-1.20	0.57	-0.90	-0.50	-0.46	1.23	1.14	-0.72	**-4.42**
2128	1,6,9,11,13,16,18,21,27,26,33,37,40,41,45,55	0.92	0.40	0.28	0.44	-0.07	2.27	0.32	0.06	1.16	-0.39	1.28	-0.90	0.38	-0.46	1.23	1.14	-0.72	**7.32**
2129	1,6,9,11,13,16,18,21,27,26,33,37,40,43,47,46,48,51	-0.03	0.40	-0.09	1.21	-0.79	1.41	0.32	-0.52	-0.74	-1.33	1.70	1.01	-0.17	-0.46	1.23	1.14	-0.72	**3.58**
2130	1,6,9,11,13,16,18,21,27,26,33,37,40,43,47,46,48,52,53,54	-0.36	0.40	-0.44	0.83	-0.26	0.55	0.08	-0.34	-0.62	-1.33	1.39	0.05	-0.65	-0.46	1.23	1.14	-0.72	**0.49**
2131	1,6,9,11,13,16,18,21,27,26,33,37,40,43,47,49,53,54	-1.29	0.66	-1.31	-0.27	0.59	0.55	-0.87	0.18	-0.49	-1.22	0.28	0.05	-1.02	-0.46	1.23	1.14	-0.72	**-2.97**
2132	1,6,9,11,13,16,18,21,27,26,33,37,40,43,50,54	-1.39	0.14	-1.33	-0.39	0.53	0.55	-0.64	-0.34	0.09	-1.18	0.04	-0.90	-1.06	-0.46	1.23	1.14	-0.72	**-4.69**
2133	1,6,9,11,13,16,18,21,27,26,33,37,42,46,48,51	-0.17	-0.38	-0.13	1.13	-0.84	0.55	0.32	-0.52	-0.74	-1.36	1.67	1.01	-0.24	-0.46	1.23	1.14	-0.72	**1.51**
2134	1,6,9,11,13,16,18,21,27,26,33,37,42,46,48,52,53,54	-0.49	-0.38	-0.48	0.75	-0.30	-0.30	0.08	-0.34	-0.62	-1.36	1.35	0.05	-0.72	-0.46	1.23	1.14	-0.72	**-1.58**
2135	1,6,9,11,13,16,18,21,27,26,33,37,42,47,50,54	-1.38	-0.12	-1.33	-0.30	0.58	0.55	-0.64	-0.34	0.09	-1.13	0.06	-0.90	-1.06	-0.46	1.23	1.14	-0.72	**-4.72**
2136	1,6,9,11,13,16,18,21,27,26,33,37,42,49,53,54	-1.42	-0.38	-1.35	-0.35	0.55	-0.30	-0.87	0.18	-0.49	-1.26	0.25	0.05	-1.10	-0.46	1.23	1.14	-0.72	**-5.31**
2137	1,6,9,11,13,16,18,21,28,31,30,32,46,47,50,54	1.04	1.18	0.29	-0.55	0.72	2.27	1.52	-0.93	1.39	-0.36	1.17	-0.90	0.96	0.26	1.23	-0.77	0.98	**9.49**
2138	1,6,9,11,13,16,18,21,28,31,30,32,46,49,53,54	0.99	0.92	0.27	-0.60	0.69	1.41	1.28	-0.41	0.81	-0.49	1.33	0.05	0.92	0.26	1.23	-0.77	0.98	**8.88**
2139	1,6,9,11,13,16,18,21,28,31,30,32,48,51	0.49	0.40	1.02	-1.20	-1.26	2.27	1.99	-1.11	0.56	-0.59	0.83	-0.90	1.43	0.26	1.23	-0.77	0.98	**5.63**
2140	1,6,9,11,13,16,18,21,28,31,30,32,48,52,53,54	0.17	0.40	0.66	-1.58	-0.72	1.41	1.75	-0.93	0.68	-0.59	0.51	-1.85	0.95	0.26	1.23	-0.77	0.98	**2.55**
2141	1,6,9,11,13,16,18,21,28,31,33,37,40,41,44,55	-0.85	-0.64	-0.63	-0.56	0.63	0.13	-0.87	-0.52	-0.52	-0.96	0.32	-0.90	-0.59	-0.46	1.23	-0.77	-0.72	**-6.70**
2142	1,6,9,11,13,16,18,21,28,31,33,37,40,41,45,55	0.85	0.40	0.21	0.46	0.14	2.27	0.32	0.06	0.81	-0.15	1.02	-0.90	0.28	-0.46	1.23	-0.77	-0.72	**5.04**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
2143	1,6,9,11,13,16,18,21,28,31,33,37,40,43,47,46,48,51	-0.11	0.40	-0.16	1.24	-0.59	1.41	0.32	-0.52	-1.09	-1.08	1.45	1.01	-0.26	-0.46	1.23	-0.77	-0.72	**1.30**
2144	1,6,9,11,13,16,18,21,28,31,33,37,40,43,47,46,48,52,53,54	-0.43	0.40	-0.51	0.85	-0.05	0.55	0.08	-0.34	-0.97	-1.08	1.13	0.05	-0.74	-0.46	1.23	-0.77	-0.72	**-1.79**
2145	1,6,9,11,13,16,18,21,28,31,33,37,40,43,47,49,53,54	-1.36	0.66	-1.38	-0.25	0.80	0.55	-0.87	0.18	-0.84	-0.98	0.02	0.05	-1.11	-0.46	1.23	-0.77	-0.72	**-5.25**
2146	1,6,9,11,13,16,18,21,28,31,33,37,40,43,50,54	-1.46	0.14	-1.40	-0.36	0.73	0.55	-0.64	-0.34	-0.26	-0.93	-0.22	-0.90	-1.16	-0.46	1.23	-0.77	-0.72	**-6.97**
2147	1,6,9,11,13,16,18,21,28,31,33,37,42,46,48,51	-0.24	-0.38	-0.20	1.16	-0.63	0.55	0.32	-0.52	-1.09	-1.11	1.41	1.01	-0.33	-0.46	1.23	-0.77	-0.72	**-0.78**
2148	1,6,9,11,13,16,18,21,28,31,33,37,42,46,48,52,53,54	-0.57	-0.38	-0.55	0.77	-0.10	-0.30	0.08	-0.34	-0.97	-1.11	1.09	0.05	-0.82	-0.46	1.23	-0.77	-0.72	**-3.86**
2149	1,6,9,11,13,16,18,21,28,31,33,37,42,47,50,54	-1.45	-0.12	-1.40	-0.27	0.78	0.55	-0.64	-0.34	-0.26	-0.88	-0.20	-0.90	-1.15	-0.46	1.23	-0.77	-0.72	**-7.00**
2150	1,6,9,11,13,16,18,21,28,31,33,37,42,49,53,54	-1.49	-0.38	-1.42	-0.33	0.76	-0.30	-0.87	0.18	-0.84	-1.01	-0.01	0.05	-1.19	-0.46	1.23	-0.77	-0.72	**-7.59**
2151	1,6,9,11,13,16,18,21,28,34,35,37,40,41,44,55	-0.88	-0.64	-0.63	-0.53	0.99	0.13	-1.11	-0.52	-0.22	-1.00	0.29	-0.90	-0.64	-0.46	1.23	-0.77	-0.72	**-6.39**
2152	1,6,9,11,13,16,18,21,28,34,35,37,40,41,45,55	0.82	0.40	0.21	0.48	0.49	2.27	0.08	0.06	1.11	-0.19	1.00	-0.90	0.24	-0.46	1.23	-0.77	-0.72	**5.34**
2153	1,6,9,11,13,16,18,21,28,34,35,37,40,43,47,46,48,51	-0.14	0.40	-0.15	1.26	-0.23	1.41	0.08	-0.52	-0.79	-1.12	1.42	1.01	-0.30	-0.46	1.23	-0.77	-0.72	**1.60**
2154	1,6,9,11,13,16,18,21,28,34,35,37,40,43,47,46,48,52,53,54	-0.46	0.40	-0.51	0.88	0.31	0.55	-0.16	-0.34	-0.67	-1.12	1.10	0.05	-0.79	-0.46	1.23	-0.77	-0.72	**-1.48**
2155	1,6,9,11,13,16,18,21,28,34,35,37,40,43,47,49,53,54	-1.39	0.66	-1.38	-0.22	1.16	0.55	-1.11	0.18	-0.54	-1.02	0.00	0.05	-1.16	-0.46	1.23	-0.77	-0.72	**-4.95**
2156	1,6,9,11,13,16,18,21,28,34,35,37,40,43,50,54	-1.49	0.14	-1.39	-0.34	1.09	0.55	-0.87	-0.34	0.04	-0.98	-0.24	-0.90	-1.20	-0.46	1.23	-0.77	-0.72	**-6.67**
2157	1,6,9,11,13,16,18,21,28,34,35,37,42,46,48,51	-0.27	-0.38	-0.19	1.18	-0.28	0.55	0.08	-0.52	-0.79	-1.16	1.38	1.01	-0.38	-0.46	1.23	-0.77	-0.72	**-0.47**
2158	1,6,9,11,13,16,18,21,28,34,35,37,42,46,48,52,53,54	-0.59	-0.38	-0.55	0.80	0.26	-0.30	-0.16	-0.34	-0.67	-1.16	1.07	0.05	-0.86	-0.46	1.23	-0.77	-0.72	**-3.55**
2159	1,6,9,11,13,16,18,21,28,34,35,37,42,47,50,54	-1.48	-0.12	-1.39	-0.25	1.14	0.55	-0.87	-0.34	0.04	-0.93	-0.22	-0.90	-1.20	-0.46	1.23	-0.77	-0.72	**-6.69**
2160	1,6,9,11,13,16,18,21,28,34,35,37,42,49,53,54	-1.52	-0.38	-1.41	-0.30	1.11	-0.30	-1.11	0.18	-0.54	-1.05	-0.04	0.05	-1.23	-0.46	1.23	-0.77	-0.72	**-7.28**
2161	1,6,9,11,13,16,18,21,28,34,36,39,41,40,42,46,48,51	1.07	0.40	0.94	1.44	-0.89	0.55	0.80	-0.37	-0.82	0.82	0.32	1.01	0.67	-0.46	1.23	-0.77	-0.72	**5.19**
2162	1,6,9,11,13,16,18,21,28,34,36,39,41,40,42,46,48,52,53,54	0.74	0.40	0.58	1.05	-0.36	-0.30	0.56	-0.20	-0.70	0.82	0.00	0.05	0.18	-0.46	1.23	-0.77	-0.72	**2.10**
2163	1,6,9,11,13,16,18,21,28,34,36,39,41,40,42,47,50,54	-0.15	0.66	-0.27	0.00	0.52	0.55	-0.16	-0.20	0.01	1.05	-1.29	-0.90	-0.15	-0.46	1.23	-0.77	-0.72	**-1.04**
2164	1,6,9,11,13,16,18,21,28,34,36,39,41,40,42,49,53,54	-0.19	0.40	-0.29	-0.05	0.50	-0.30	-0.40	0.33	-0.57	0.92	-1.11	0.05	-0.19	-0.46	1.23	-0.77	-0.72	**-1.62**
2165	1,6,9,11,13,16,18,21,28,34,36,39,41,43,47,46,48,51	1.07	0.66	0.94	1.52	-0.85	0.55	0.80	-0.37	-0.82	0.85	0.32	1.01	0.67	-0.46	1.23	-0.77	-0.72	**5.62**
2166	1,6,9,11,13,16,18,21,28,34,36,39,41,43,47,46,48,52,53,54	0.74	0.66	0.58	1.13	-0.31	-0.30	0.56	-0.20	-0.70	0.85	0.00	0.05	0.19	-0.46	1.23	-0.77	-0.72	**2.53**
2167	1,6,9,11,13,16,18,21,28,34,36,39,41,43,47,49,53,54	-0.19	0.92	-0.28	0.03	0.54	-0.30	-0.40	0.33	-0.57	0.95	-1.10	0.05	-0.19	-0.46	1.23	-0.77	-0.72	**-0.93**
2168	1,6,9,11,13,16,18,21,28,34,36,39,41,43,50,54	-0.29	0.40	-0.30	-0.09	0.47	-0.30	-0.16	-0.20	0.01	1.00	-1.34	-0.90	-0.23	-0.46	1.23	-0.77	-0.72	**-2.65**
2169	1,6,9,11,13,16,18,21,28,34,36,39,44,55	-1.22	-0.90	0.05	-0.28	0.37	-0.73	-1.35	-0.37	-0.25	0.97	-1.49	-0.90	-0.29	-0.46	1.23	-0.77	-0.72	**-7.13**
2170	1,6,9,11,13,16,18,21,28,34,36,39,45,55	0.48	0.14	0.89	0.74	-0.12	1.41	-0.16	0.20	1.08	1.78	-0.79	-0.90	0.58	-0.46	1.23	-0.77	-0.72	**4.61**
2171	1,6,9,11,13,16,18,21,28,34,38,40,42,46,48,51	-0.23	-0.38	-0.19	1.15	0.44	0.98	0.08	-0.15	-0.47	-1.14	1.35	1.01	-0.37	-0.46	1.23	-0.77	1.40	**3.49**
2172	1,6,9,11,13,16,18,21,28,34,38,40,42,46,48,52,53,54	-0.55	-0.38	-0.55	0.77	0.98	0.13	-0.16	0.03	-0.34	-1.14	1.03	0.05	-0.85	-0.46	1.23	-0.77	1.40	**0.40**
2173	1,6,9,11,13,16,18,21,28,34,38,40,42,47,50,54	-1.44	-0.12	-1.39	-0.28	1.86	0.98	-0.87	0.03	0.36	-0.91	-0.26	-0.90	-1.19	-0.46	1.23	-0.77	1.40	**-2.74**
2174	1,6,9,11,13,16,18,21,28,34,38,40,42,49,53,54	-1.48	-0.38	-1.41	-0.33	1.83	0.13	-1.11	0.55	-0.22	-1.04	-0.08	0.05	-1.23	-0.46	1.23	-0.77	1.40	**-3.32**
2175	1,6,9,11,13,16,18,21,28,34,38,41,44,55	-0.97	-1.15	-0.66	-0.56	1.70	-0.30	-1.11	-0.15	0.11	-0.99	0.21	-0.90	-0.70	-0.46	1.23	-0.77	1.40	**-4.09**
2176	1,6,9,11,13,16,18,21,28,34,38,41,45,55	0.73	-0.12	0.18	0.45	1.21	1.84	0.08	0.43	1.43	-0.18	0.92	-0.90	0.18	-0.46	1.23	-0.77	1.40	**7.65**
2177	1,6,9,11,13,16,18,21,28,34,38,43,47,46,48,51	-0.23	-0.64	-0.19	1.23	0.49	0.98	0.08	-0.15	-0.47	-1.11	1.35	1.01	-0.36	-0.46	1.23	-0.77	1.40	**3.40**
2178	1,6,9,11,13,16,18,21,28,34,38,43,47,46,48,52,53,54	-0.55	-0.64	-0.54	0.85	1.02	0.13	-0.16	0.03	-0.34	-1.11	1.03	0.05	-0.85	-0.46	1.23	-0.77	1.40	**0.31**
2179	1,6,9,11,13,16,18,21,28,34,38,43,47,49,53,54	-1.48	-0.38	-1.41	-0.25	1.87	0.13	-1.11	0.55	-0.22	-1.01	-0.07	0.05	-1.22	-0.46	1.23	-0.77	1.40	**-3.16**
2180	1,6,9,11,13,16,18,21,28,34,38,43,50,54	-1.58	-0.90	-1.43	-0.37	1.81	0.13	-0.87	0.03	0.36	-0.96	-0.31	-0.90	-1.26	-0.46	1.23	-0.77	1.40	**-4.87**
2181	1,6,9,11,13,16,20,23,26,30,32,46,47,50,54	1.02	0.66	0.20	-0.33	0.48	1.41	1.04	-0.24	2.28	-0.16	0.98	-0.90	0.72	0.16	1.23	1.14	0.98	**10.67**
2182	1,6,9,11,13,16,20,23,26,30,32,46,49,53,54	0.98	0.40	0.18	-0.38	0.45	0.55	0.80	0.28	1.70	-0.29	1.14	0.05	0.69	0.16	1.23	1.14	0.98	**10.06**
2183	1,6,9,11,13,16,20,23,26,30,32,48,51	0.48	-0.12	0.93	-0.98	-1.50	1.41	1.52	-0.42	1.45	-0.39	0.64	-0.90	1.20	0.16	1.23	1.14	0.98	**6.82**
2184	1,6,9,11,13,16,20,23,26,30,32,48,52,53,54	0.15	-0.12	0.57	-1.36	-0.96	0.55	1.28	-0.24	1.57	-0.39	0.32	-1.85	0.71	0.16	1.23	1.14	0.98	**3.73**
2185	1,6,9,11,13,16,20,23,26,31,34,35,37,40,41,44,55	-0.80	-0.64	-0.70	-0.31	0.75	-0.73	-1.59	0.17	0.67	-0.78	0.18	-0.90	-0.81	-0.56	1.23	1.14	-0.72	**-4.40**
2186	1,6,9,11,13,16,20,23,26,31,34,35,37,40,41,45,55	0.90	0.40	0.14	0.71	0.26	1.41	-0.40	0.75	2.00	0.03	0.89	-0.90	0.07	-0.56	1.23	1.14	-0.72	**7.34**
2187	1,6,9,11,13,16,20,23,26,31,34,35,37,40,43,47,46,48,51	-0.06	0.40	-0.22	1.48	-0.47	0.55	-0.40	0.17	0.10	-0.90	1.31	1.01	-0.47	-0.56	1.23	1.14	-0.72	**3.60**
2188	1,6,9,11,13,16,20,23,26,31,34,35,37,40,43,47,46,48,52,53,54	-0.38	0.40	-0.58	1.10	0.07	-0.30	-0.64	0.35	0.22	-0.90	0.99	0.05	-0.96	-0.56	1.23	1.14	-0.72	**0.51**
2189	1,6,9,11,13,16,20,23,26,31,34,35,37,40,43,47,49,53,54	-1.31	0.66	-1.44	0.00	0.92	-0.30	-1.59	0.87	0.35	-0.80	-0.11	0.05	-1.33	-0.56	1.23	1.14	-0.72	**-2.95**
2190	1,6,9,11,13,16,20,23,26,31,34,35,37,40,43,50,54	-1.41	0.14	-1.46	-0.12	0.85	-0.30	-1.35	0.35	0.93	-0.75	-0.35	-0.90	-1.37	-0.56	1.23	1.14	-0.72	**-4.67**
2191	1,6,9,11,13,16,20,23,26,31,34,35,37,42,46,48,51	-0.19	-0.38	-0.26	1.40	-0.51	-0.30	-0.40	0.17	0.10	-0.93	1.28	1.01	-0.55	-0.56	1.23	1.14	-0.72	**1.53**
2192	1,6,9,11,13,16,20,23,26,31,34,35,37,42,46,48,52,53,54	-0.52	-0.38	-0.61	1.02	0.02	-1.16	-0.64	0.35	0.22	-0.93	0.96	0.05	-1.03	-0.56	1.23	1.14	-0.72	**-1.56**
2193	1,6,9,11,13,16,20,23,26,31,34,35,37,42,47,50,54	-1.40	-0.12	-1.46	-0.03	0.90	-0.30	-1.35	0.35	0.93	-0.70	-0.33	-0.90	-1.37	-0.56	1.23	1.14	-0.72	**-4.70**
2194	1,6,9,11,13,16,20,23,26,31,34,35,37,42,49,53,54	-1.44	-0.38	-1.48	-0.08	0.87	-1.16	-1.59	0.87	0.35	-0.83	-0.15	0.05	-1.40	-0.56	1.23	1.14	-0.72	**-5.29**
2195	1,6,9,11,13,16,20,23,26,31,34,36,39,41,40,42,46,48,51	1.14	0.40	0.87	1.66	-1.13	-0.30	0.32	0.32	0.07	1.04	0.21	1.01	0.50	-0.56	1.23	1.14	-0.72	**7.18**
2196	1,6,9,11,13,16,20,23,26,31,34,36,39,41,40,42,46,48,52,53,54	0.82	0.40	0.51	1.27	-0.60	-1.16	0.08	0.50	0.19	1.04	-0.11	0.05	0.01	-0.56	1.23	1.14	-0.72	**4.10**
2197	1,6,9,11,13,16,20,23,26,31,34,36,39,41,40,42,47,50,54	-0.07	0.66	-0.33	0.22	0.28	-0.30	-0.64	0.50	0.90	1.27	-1.40	-0.90	-0.32	-0.56	1.23	1.14	-0.72	**0.96**
2198	1,6,9,11,13,16,20,23,26,31,34,36,39,41,40,42,49,53,54	-0.11	0.40	-0.35	0.17	0.26	-1.16	-0.87	1.02	0.32	1.14	-1.21	0.05	-0.36	-0.56	1.23	1.14	-0.72	**0.37**
2199	1,6,9,11,13,16,20,23,26,31,34,36,39,41,43,47,46,48,51	1.15	0.66	0.87	1.74	-1.09	-0.30	0.32	0.32	0.07	1.07	0.21	1.01	0.50	-0.56	1.23	1.14	-0.72	**7.61**
2200	1,6,9,11,13,16,20,23,26,31,34,36,39,41,43,47,46,48,52,53,54	0.82	0.66	0.52	1.35	-0.55	-1.16	0.08	0.50	0.19	1.07	-0.11	0.05	0.02	-0.56	1.23	1.14	-0.72	**4.53**
2201	1,6,9,11,13,16,20,23,26,31,34,36,39,41,43,47,49,53,54	-0.11	0.92	-0.35	0.25	0.30	-1.16	-0.87	1.02	0.32	1.18	-1.21	0.05	-0.36	-0.56	1.23	1.14	-0.72	**1.06**
2202	1,6,9,11,13,16,20,23,26,31,34,36,39,41,43,50,54	-0.21	0.40	-0.37	0.13	0.23	-1.16	-0.64	0.50	0.90	1.22	-1.45	-0.90	-0.40	-0.56	1.23	1.14	-0.72	**-0.66**
2203	1,6,9,11,13,16,20,23,26,31,34,36,39,44,55	-1.14	-0.90	-0.02	-0.06	0.13	-1.59	-1.83	0.32	0.64	1.20	-1.60	-0.90	-0.46	-0.56	1.23	1.14	-0.72	**-5.13**
2204	1,6,9,11,13,16,20,23,26,31,34,36,39,45,55	0.56	0.14	0.82	0.96	-0.36	0.55	-0.64	0.89	1.97	2.01	-0.90	-0.90	0.41	-0.56	1.23	1.14	-0.72	**6.60**
2205	1,6,9,11,13,16,20,23,26,31,34,38,40,42,46,48,51	-0.15	-0.38	-0.26	1.37	0.20	0.13	-0.40	0.54	0.42	-0.92	1.24	1.01	-0.54	-0.56	1.23	1.14	1.40	**5.48**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
2206	1,6,9,11,13,16,20,23,26,31,34,38,40,42,46,48,52,53,54	-0.48	-0.38	-0.61	0.99	0.74	-0.73	-0.64	0.72	0.55	-0.92	0.92	0.05	-1.02	-0.56	1.23	1.14	1.40	**2.39**
2207	1,6,9,11,13,16,20,23,26,31,34,38,40,42,47,50,54	-1.36	-0.12	-1.46	-0.06	1.62	0.13	-1.35	0.72	1.25	-0.69	-0.37	-0.90	-1.36	-0.56	1.23	1.14	1.40	**-0.75**
2208	1,6,9,11,13,16,20,23,26,31,34,38,40,42,49,53,54	-1.40	-0.38	-1.48	-0.11	1.59	-0.73	-1.59	1.24	0.67	-0.82	-0.19	0.05	-1.39	-0.56	1.23	1.14	1.40	**-1.33**
2209	1,6,9,11,13,16,20,23,26,31,34,38,41,44,55	-0.89	-1.15	-0.73	-0.34	1.46	-1.16	-1.59	0.54	1.00	-0.77	0.10	-0.90	-0.87	-0.56	1.23	1.14	1.40	**-2.09**
2210	1,6,9,11,13,16,20,23,26,31,34,38,41,45,55	0.81	-0.12	0.11	0.67	0.97	0.98	-0.40	1.12	2.32	0.05	0.81	-0.90	0.01	-0.56	1.23	1.14	1.40	**9.64**
2211	1,6,9,11,13,16,20,23,26,31,34,38,43,47,46,48,51	-0.15	-0.64	-0.26	1.45	0.25	0.13	-0.40	0.54	0.42	-0.89	1.24	1.01	-0.53	-0.56	1.23	1.14	1.40	**5.39**
2212	1,6,9,11,13,16,20,23,26,31,34,38,43,47,46,48,52,53,54	-0.47	-0.64	-0.61	1.07	0.78	-0.73	-0.64	0.72	0.55	-0.89	0.92	0.05	-1.02	-0.56	1.23	1.14	1.40	**2.30**
2213	1,6,9,11,13,16,20,23,26,31,34,38,43,47,49,53,54	-1.40	-0.38	-1.48	-0.03	1.64	-0.73	-1.59	1.24	0.67	-0.78	-0.18	0.05	-1.39	-0.56	1.23	1.14	1.40	**-1.16**
2214	1,6,9,11,13,16,20,23,26,31,34,38,43,50,54	-1.50	-0.90	-1.50	-0.15	1.57	-0.73	-1.35	0.72	1.25	-0.74	-0.42	-0.90	-1.43	-0.56	1.23	1.14	1.40	**-2.88**
2215	1,6,9,11,13,16,20,23,26,33,37,40,41,44,55	-0.87	-1.67	-0.73	-0.34	0.39	-0.73	-1.35	0.17	0.37	-0.76	0.13	-0.90	-0.83	-0.56	1.23	1.14	-0.72	**-6.03**
2216	1,6,9,11,13,16,20,23,26,33,37,40,41,45,55	0.83	-0.64	0.11	0.68	-0.10	1.41	-0.16	0.75	1.70	0.05	0.83	-0.90	0.05	-0.56	1.23	1.14	-0.72	**5.70**
2217	1,6,9,11,13,16,20,23,26,33,37,40,43,47,46,48,51	-0.12	-0.64	-0.25	1.46	-0.83	0.55	-0.16	0.17	-0.20	-0.88	1.26	1.01	-0.49	-0.56	1.23	1.14	-0.72	**1.96**
2218	1,6,9,11,13,16,20,23,26,33,37,40,43,47,46,48,52,53,54	-0.45	-0.64	-0.61	1.07	-0.29	-0.30	-0.40	0.35	-0.08	-0.88	0.94	0.05	-0.98	-0.56	1.23	1.14	-0.72	**-1.12**
2219	1,6,9,11,13,16,20,23,26,33,37,40,43,47,49,53,54	-1.38	-0.38	-1.48	-0.03	0.56	-0.30	-1.35	0.87	0.05	-0.78	-0.16	0.05	-1.35	-0.56	1.23	1.14	-0.72	**-4.59**
2220	1,6,9,11,13,16,20,23,26,33,37,40,43,50,54	-1.48	-0.90	-1.49	-0.14	0.49	-0.30	-1.11	0.35	0.63	-0.74	-0.41	-0.90	-1.39	-0.56	1.23	1.14	-0.72	**-6.31**
2221	1,6,9,11,13,16,20,23,26,33,37,42,46,48,51	-0.25	-1.41	-0.29	1.38	-0.87	-0.30	-0.16	0.17	-0.20	-0.92	1.22	1.01	-0.57	-0.56	1.23	1.14	-0.72	**-0.11**
2222	1,6,9,11,13,16,20,23,26,33,37,42,46,48,52,53,54	-0.58	-1.41	-0.65	0.99	-0.34	-1.16	-0.40	0.35	-0.08	-0.92	0.90	0.05	-1.05	-0.56	1.23	1.14	-0.72	**-3.19**
2223	1,6,9,11,13,16,20,23,26,33,37,42,47,50,54	-1.47	-1.15	-1.49	-0.05	0.54	-0.30	-1.11	0.35	0.63	-0.68	-0.38	-0.90	-1.39	-0.56	1.23	1.14	-0.72	**-6.33**
2224	1,6,9,11,13,16,20,23,26,33,37,42,49,53,54	-1.51	-1.41	-1.51	-0.10	0.52	-1.16	-1.35	0.87	0.05	-0.81	-0.20	0.05	-1.42	-0.56	1.23	1.14	-0.72	**-6.92**
2225	1,6,9,11,13,16,20,23,27,28,31,30,32,46,47,50,54	1.06	0.66	0.16	-0.30	0.69	1.41	1.04	-0.24	1.92	0.21	0.73	-0.90	0.69	0.16	1.23	-0.77	0.98	**8.71**
2226	1,6,9,11,13,16,20,23,27,28,31,30,32,46,49,53,54	1.01	0.40	0.14	-0.36	0.66	0.55	0.80	0.28	1.34	0.08	0.89	0.05	0.66	0.16	1.23	-0.77	0.98	**8.11**
2227	1,6,9,11,13,16,20,23,27,28,31,30,32,48,51	0.51	-0.12	0.89	-0.95	-1.30	1.41	1.52	-0.42	1.10	-0.02	0.38	-0.90	1.16	0.16	1.23	-0.77	0.98	**4.86**
2228	1,6,9,11,13,16,20,23,27,28,31,30,32,48,52,53,54	0.19	-0.12	0.53	-1.34	-0.76	0.55	1.28	-0.24	1.22	-0.02	0.06	-1.85	0.68	0.16	1.23	-0.77	0.98	**1.77**
2229	1,6,9,11,13,16,20,23,27,28,31,33,37,40,41,44,55	-0.83	-1.15	-0.77	-0.31	0.59	-0.73	-1.35	0.17	0.02	-0.39	-0.13	-0.90	-0.86	-0.56	1.23	-0.77	-0.72	**-7.47**
2230	1,6,9,11,13,16,20,23,27,28,31,33,37,40,41,45,55	0.87	-0.12	0.07	0.71	0.10	1.41	-0.16	0.75	1.34	0.42	0.58	-0.90	0.01	-0.56	1.23	-0.77	-0.72	**4.26**
2231	1,6,9,11,13,16,20,23,27,28,31,33,37,40,43,47,46,48,51	-0.09	-0.12	-0.29	1.49	-0.62	0.55	-0.16	0.17	-0.56	-0.51	1.00	1.01	-0.53	-0.56	1.23	-0.77	-0.72	**0.52**
2232	1,6,9,11,13,16,20,23,27,28,31,33,37,40,43,47,46,48,52,53,54	-0.41	-0.12	-0.65	1.10	-0.09	-0.30	-0.40	0.35	-0.43	-0.51	0.68	0.05	-1.01	-0.56	1.23	-0.77	-0.72	**-2.56**
2233	1,6,9,11,13,16,20,23,27,28,31,33,37,40,43,47,49,53,54	-1.34	0.14	-1.52	0.00	0.77	-0.30	-1.35	0.87	-0.31	-0.41	-0.42	0.05	-1.38	-0.56	1.23	-0.77	-0.72	**-6.03**
2234	1,6,9,11,13,16,20,23,27,28,31,33,37,40,43,50,54	-1.44	-0.38	-1.54	-0.12	0.70	-0.30	-1.11	0.35	0.27	-0.37	-0.66	-0.90	-1.43	-0.56	1.23	-0.77	-0.72	**-7.75**
2235	1,6,9,11,13,16,20,23,27,28,31,33,37,42,46,48,51	-0.22	-0.90	-0.33	1.41	-0.67	-0.30	-0.16	0.17	-0.56	-0.55	0.96	1.01	-0.60	-0.56	1.23	-0.77	-0.72	**-1.55**
2236	1,6,9,11,13,16,20,23,27,28,31,33,37,42,46,48,52,53,54	-0.55	-0.90	-0.69	1.02	-0.13	-1.16	-0.40	0.35	-0.43	-0.55	0.65	0.05	-1.08	-0.56	1.23	-0.77	-0.72	**-4.63**
2237	1,6,9,11,13,16,20,23,27,28,31,33,37,42,47,50,54	-1.43	-0.64	-1.53	-0.03	0.75	-0.30	-1.11	0.35	0.27	-0.31	-0.64	-0.90	-1.42	-0.56	1.23	-0.77	-0.72	**-7.77**
2238	1,6,9,11,13,16,20,23,27,28,31,33,37,42,49,53,54	-1.47	-0.90	-1.55	-0.08	0.72	-1.16	-1.35	0.87	-0.31	-0.44	-0.46	0.05	-1.46	-0.56	1.23	-0.77	-0.72	**-8.36**
2239	1,6,9,11,13,16,20,23,27,28,34,35,37,40,41,44,55	-0.86	-1.15	-0.76	-0.29	0.95	-0.73	-1.59	0.17	0.32	-0.43	-0.16	-0.90	-0.91	-0.56	1.23	-0.77	-0.72	**-7.16**
2240	1,6,9,11,13,16,20,23,27,28,34,35,37,40,41,45,55	0.84	-0.12	0.08	0.73	0.46	1.41	-0.40	0.75	1.64	0.38	0.55	-0.90	-0.03	-0.56	1.23	-0.77	-0.72	**4.57**
2241	1,6,9,11,13,16,20,23,27,28,34,35,37,40,43,47,46,48,51	-0.12	-0.12	-0.29	1.51	-0.27	0.55	-0.40	0.17	-0.25	-0.56	0.98	1.01	-0.57	-0.56	1.23	-0.77	-0.72	**0.83**
2242	1,6,9,11,13,16,20,23,27,28,34,35,37,40,43,47,46,48,52,53,54	-0.44	-0.12	-0.64	1.12	0.27	-0.30	-0.64	0.35	-0.13	-0.56	0.66	0.05	-1.06	-0.56	1.23	-0.77	-0.72	**-2.25**
2243	1,6,9,11,13,16,20,23,27,28,34,35,37,40,43,47,49,53,54	-1.37	0.14	-1.51	0.02	1.12	-0.30	-1.59	0.87	-0.01	-0.45	-0.45	0.05	-1.43	-0.56	1.23	-0.77	-0.72	**-5.72**
2244	1,6,9,11,13,16,20,23,27,28,34,35,37,40,43,50,54	-1.47	-0.38	-1.53	-0.09	1.06	-0.30	-1.35	0.35	0.57	-0.41	-0.69	-0.90	-1.47	-0.56	1.23	-0.77	-0.72	**-7.44**
2245	1,6,9,11,13,16,20,23,27,28,34,35,37,42,46,48,51	-0.25	-0.90	-0.32	1.43	-0.31	-0.30	-0.40	0.17	-0.25	-0.59	0.94	1.01	-0.64	-0.56	1.23	-0.77	-0.72	**-1.24**
2246	1,6,9,11,13,16,20,23,27,28,34,35,37,42,46,48,52,53,54	-0.57	-0.90	-0.68	1.04	0.23	-1.16	-0.64	0.35	-0.13	-0.59	0.62	0.05	-1.13	-0.56	1.23	-0.77	-0.72	**-4.33**
2247	1,6,9,11,13,16,20,23,27,28,34,35,37,42,47,50,54	-1.46	-0.64	-1.53	0.00	1.11	-0.30	-1.35	0.35	0.57	-0.36	-0.67	-0.90	-1.46	-0.56	1.23	-0.77	-0.72	**-7.47**
2248	1,6,9,11,13,16,20,23,27,28,34,35,37,42,49,53,54	-1.50	-0.90	-1.55	-0.06	1.08	-1.16	-1.59	0.87	-0.01	-0.48	-0.48	0.05	-1.50	-0.56	1.23	-0.77	-0.72	**-8.05**
2249	1,6,9,11,13,16,20,23,27,28,34,36,39,41,40,42,46,48,51	1.09	-0.12	0.80	1.69	-0.93	-0.30	0.32	0.32	-0.28	1.39	-0.13	1.01	0.40	-0.56	1.23	-0.77	-0.72	**4.42**
2250	1,6,9,11,13,16,20,23,27,28,34,36,39,41,40,42,46,48,52,53,54	0.76	-0.12	0.45	1.30	-0.39	-1.16	0.08	0.50	-0.16	1.39	-0.45	0.05	-0.09	-0.56	1.23	-0.77	-0.72	**1.33**
2251	1,6,9,11,13,16,20,23,27,28,34,36,39,41,40,42,47,50,54	-0.12	0.14	-0.40	0.25	0.49	-0.30	-0.64	0.50	0.54	1.62	-1.73	-0.90	-0.42	-0.56	1.23	-0.77	-0.72	**-1.81**
2252	1,6,9,11,13,16,20,23,27,28,34,36,39,41,40,42,49,53,54	-0.17	-0.12	-0.42	0.20	0.46	-1.16	-0.87	1.02	-0.04	1.49	-1.55	0.05	-0.46	-0.56	1.23	-0.77	-0.72	**-2.39**
2253	1,6,9,11,13,16,20,23,27,28,34,36,39,41,43,47,46,48,51	1.09	0.14	0.81	1.77	-0.88	-0.30	0.32	0.32	-0.28	1.42	-0.12	1.01	0.40	-0.56	1.23	-0.77	-0.72	**4.85**
2254	1,6,9,11,13,16,20,23,27,28,34,36,39,41,43,47,46,48,52,53,54	0.76	0.14	0.45	1.38	-0.35	-1.16	0.08	0.50	-0.16	1.42	-0.44	0.05	-0.08	-0.56	1.23	-0.77	-0.72	**1.76**
2255	1,6,9,11,13,16,20,23,27,28,34,36,39,41,43,47,49,53,54	-0.17	0.40	-0.42	0.28	0.51	-1.16	-0.87	1.02	-0.04	1.52	-1.55	0.05	-0.45	-0.56	1.23	-0.77	-0.72	**-1.71**
2256	1,6,9,11,13,16,20,23,27,28,34,36,39,41,43,50,54	-0.27	-0.12	-0.44	0.16	0.44	-1.16	-0.64	0.50	0.54	1.57	-1.79	-0.90	-0.50	-0.56	1.23	-0.77	-0.72	**-3.42**
2257	1,6,9,11,13,16,20,23,27,28,34,36,39,44,55	-1.20	-1.41	-0.09	-0.03	0.33	-1.59	-1.83	0.32	0.29	1.54	-1.94	-0.90	-0.56	-0.56	1.23	-0.77	-0.72	**-7.90**
2258	1,6,9,11,13,16,20,23,27,28,34,36,39,45,55	0.50	-0.38	0.75	0.99	-0.16	0.55	-0.64	0.89	1.61	2.35	-1.23	-0.90	0.32	-0.56	1.23	-0.77	-0.72	**3.84**
2259	1,6,9,11,13,16,20,23,27,28,34,38,40,42,46,48,51	-0.21	-0.90	-0.32	1.40	0.41	0.13	-0.40	0.54	0.07	-0.58	0.90	1.01	-0.64	-0.56	1.23	-0.77	1.40	**2.71**
2260	1,6,9,11,13,16,20,23,27,28,34,38,40,42,46,48,52,53,54	-0.53	-0.90	-0.68	1.01	0.95	-0.73	-0.64	0.72	0.19	-0.58	0.58	0.05	-1.12	-0.56	1.23	-0.77	1.40	**-0.37**
2261	1,6,9,11,13,16,20,23,27,28,34,38,40,42,47,50,54	-1.42	-0.64	-1.53	-0.03	1.83	0.13	-1.35	0.72	0.90	-0.34	-0.71	-0.90	-1.46	-0.56	1.23	-0.77	1.40	**-3.51**
2262	1,6,9,11,13,16,20,23,27,28,34,38,40,42,49,53,54	-1.46	-0.90	-1.55	-0.09	1.80	-0.73	-1.59	1.24	0.32	-0.47	-0.52	0.05	-1.49	-0.56	1.23	-0.77	1.40	**-4.10**
2263	1,6,9,11,13,16,20,23,27,28,34,38,41,44,55	-0.95	-1.67	-0.80	-0.32	1.67	-1.16	-1.59	0.54	0.64	-0.42	-0.23	-0.90	-0.97	-0.56	1.23	-0.77	1.40	**-4.86**
2264	1,6,9,11,13,16,20,23,27,28,34,38,41,45,55	0.75	-0.64	0.04	0.70	1.18	0.98	-0.40	1.12	1.97	0.39	0.47	-0.90	-0.09	-0.56	1.23	-0.77	1.40	**6.88**
2265	1,6,9,11,13,16,20,23,27,28,34,38,43,47,46,48,51	-0.21	-1.15	-0.32	1.48	0.45	0.13	-0.40	0.54	0.07	-0.54	0.90	1.01	-0.63	-0.56	1.23	-0.77	1.40	**2.62**
2266	1,6,9,11,13,16,20,23,27,28,34,38,43,47,46,48,52,53,54	-0.53	-1.15	-0.68	1.09	0.99	-0.73	-0.64	0.72	0.19	-0.54	0.59	0.05	-1.12	-0.56	1.23	-0.77	1.40	**-0.46**
2267	1,6,9,11,13,16,20,23,27,28,34,38,43,47,49,53,54	-1.46	-0.90	-1.55	-0.01	1.84	-0.73	-1.59	1.24	0.32	-0.44	-0.52	0.05	-1.49	-0.56	1.23	-0.77	1.40	**-3.93**
2268	1,6,9,11,13,16,20,23,27,28,34,38,43,50,54	-1.56	-1.41	-1.57	-0.13	1.78	-0.73	-1.35	0.72	0.90	-0.40	-0.76	-0.90	-1.53	-0.56	1.23	-0.77	1.40	**-5.65**

Westar Energy- JEC to East Manhattan
345/230 kV Transmission Line Project
Table F-2: Raw Scores for All Routes

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
2269	1,6,9,11,17,18,20,23,26,30,32,46,47,50,54	1.03	0.66	0.20	-0.37	0.19	1.41	1.28	-0.24	2.28	-0.16	0.96	-0.90	0.74	-0.46	1.23	1.14	0.98	**9.95**
2270	1,6,9,11,17,18,20,23,26,30,32,46,49,53,54	0.99	0.40	0.18	-0.42	0.16	0.55	1.04	0.28	1.70	-0.29	1.12	0.05	0.70	-0.46	1.23	1.14	0.98	**9.34**
2271	1,6,9,11,17,18,20,23,26,30,32,48,51	0.49	-0.12	0.93	-1.02	-1.79	1.41	1.75	-0.42	1.45	-0.39	0.61	-0.90	1.21	-0.46	1.23	1.14	0.98	**6.10**
2272	1,6,9,11,17,18,20,23,26,30,32,48,52,53,54	0.16	-0.12	0.57	-1.40	-1.25	0.55	1.52	-0.24	1.57	-0.39	0.29	-1.85	0.72	-0.46	1.23	1.14	0.98	**3.01**
2273	1,6,9,11,17,18,20,23,26,31,34,35,37,40,41,44,55	-0.79	-0.64	-0.69	-0.35	0.46	-0.73	-1.35	0.17	0.67	-0.78	0.16	-0.90	-0.80	-1.19	1.23	1.14	-0.72	**-5.12**
2274	1,6,9,11,17,18,20,23,26,31,34,35,37,40,41,45,55	0.91	0.40	0.15	0.66	-0.04	1.41	-0.16	0.75	2.00	0.03	0.86	-0.90	0.08	-1.19	1.23	1.14	-0.72	**6.62**
2275	1,6,9,11,17,18,20,23,26,31,34,35,37,40,43,47,46,48,51	-0.05	0.40	-0.22	1.44	-0.76	0.55	-0.16	0.17	0.10	-0.90	1.29	1.01	-0.46	-1.19	1.23	1.14	-0.72	**2.88**
2276	1,6,9,11,17,18,20,23,26,31,34,35,37,40,43,47,46,48,52,53,54	-0.38	0.40	-0.57	1.06	-0.22	-0.30	-0.40	0.35	0.22	-0.90	0.97	0.05	-0.94	-1.19	1.23	1.14	-0.72	**-0.21**
2277	1,6,9,11,17,18,20,23,26,31,34,35,37,40,43,47,49,53,54	-1.30	0.66	-1.44	-0.04	0.63	-0.30	-1.35	0.87	0.35	-0.80	-0.13	0.05	-1.32	-1.19	1.23	1.14	-0.72	**-3.67**
2278	1,6,9,11,17,18,20,23,26,31,34,35,37,40,43,50,54	-1.40	0.14	-1.46	-0.16	0.56	-0.30	-1.11	0.35	0.93	-0.75	-0.38	-0.90	-1.36	-1.19	1.23	1.14	-0.72	**-5.39**
2279	1,6,9,11,17,18,20,23,26,31,34,35,37,42,46,48,51	-0.18	-0.38	-0.26	1.36	-0.81	-0.30	-0.16	0.17	0.10	-0.93	1.25	1.01	-0.53	-1.19	1.23	1.14	-0.72	**0.81**
2280	1,6,9,11,17,18,20,23,26,31,34,35,37,42,46,48,52,53,54	-0.51	-0.38	-0.61	0.98	-0.27	-1.16	-0.40	0.35	0.22	-0.93	0.93	0.05	-1.02	-1.19	1.23	1.14	-0.72	**-2.28**
2281	1,6,9,11,17,18,20,23,26,31,34,35,37,42,47,50,54	-1.39	-0.12	-1.46	-0.07	0.61	-0.30	-1.11	0.35	0.93	-0.70	-0.35	-0.90	-1.35	-1.19	1.23	1.14	-0.72	**-5.42**
2282	1,6,9,11,17,18,20,23,26,31,34,35,37,42,49,53,54	-1.44	-0.38	-1.48	-0.12	0.58	-1.16	-1.35	0.87	0.35	-0.83	-0.17	0.05	-1.39	-1.19	1.23	1.14	-0.72	**-6.01**
2283	1,6,9,11,17,18,20,23,26,31,34,36,39,41,40,42,46,48,51	1.15	0.40	0.87	1.62	-1.42	-0.30	0.56	0.32	0.07	1.04	0.18	1.01	0.51	-1.19	1.23	1.14	-0.72	**6.46**
2284	1,6,9,11,17,18,20,23,26,31,34,36,39,41,40,42,46,48,52,53,54	0.83	0.40	0.52	1.23	-0.89	-1.16	0.32	0.50	0.19	1.04	-0.13	0.05	0.02	-1.19	1.23	1.14	-0.72	**3.38**
2285	1,6,9,11,17,18,20,23,26,31,34,36,39,41,40,42,47,50,54	-0.06	0.66	-0.33	0.18	-0.01	-0.30	-0.40	0.50	0.90	1.27	-1.42	-0.90	-0.31	-1.19	1.23	1.14	-0.72	**0.24**
2286	1,6,9,11,17,18,20,23,26,31,34,36,39,41,40,42,49,53,54	-0.10	0.40	-0.35	0.13	-0.03	-1.16	-0.64	1.02	0.32	1.14	-1.24	0.05	-0.35	-1.19	1.23	1.14	-0.72	**-0.35**
2287	1,6,9,11,17,18,20,23,26,31,34,36,39,41,43,47,46,48,51	1.15	0.66	0.87	1.70	-1.38	-0.30	0.56	0.32	0.07	1.07	0.19	1.01	0.51	-1.19	1.23	1.14	-0.72	**6.89**
2288	1,6,9,11,17,18,20,23,26,31,34,36,39,41,43,47,46,48,52,53,54	0.83	0.66	0.52	1.31	-0.84	-1.16	0.32	0.50	0.19	1.07	-0.13	0.05	0.03	-1.19	1.23	1.14	-0.72	**3.81**
2289	1,6,9,11,17,18,20,23,26,31,34,36,39,41,43,47,49,53,54	-0.10	0.92	-0.35	0.21	0.01	-1.16	-0.64	1.02	0.32	1.18	-1.23	0.05	-0.34	-1.19	1.23	1.14	-0.72	**0.34**
2290	1,6,9,11,17,18,20,23,26,31,34,36,39,41,43,50,54	-0.20	0.40	-0.37	0.09	-0.06	-1.16	-0.40	0.50	0.90	1.22	-1.48	-0.90	-0.39	-1.19	1.23	1.14	-0.72	**-1.38**
2291	1,6,9,11,17,18,20,23,26,31,34,36,39,44,55	-1.13	-0.90	-0.02	-0.10	-0.16	-1.59	-1.59	0.32	0.64	1.20	-1.63	-0.90	-0.45	-1.19	1.23	1.14	-0.72	**-5.85**
2292	1,6,9,11,17,18,20,23,26,31,34,36,39,45,55	0.57	0.14	0.82	0.92	-0.65	0.55	-0.40	0.89	1.97	2.01	-0.92	-0.90	0.43	-1.19	1.23	1.14	-0.72	**5.88**
2293	1,6,9,11,17,18,20,23,26,31,34,38,40,42,46,48,51	-0.14	-0.38	-0.26	1.33	-0.09	0.13	-0.16	0.54	0.42	-0.92	1.21	1.01	-0.53	-1.19	1.23	1.14	1.40	**4.76**
2294	1,6,9,11,17,18,20,23,26,31,34,38,40,42,46,48,52,53,54	-0.47	-0.38	-0.61	0.95	0.45	-0.73	-0.40	0.72	0.55	-0.92	0.89	0.05	-1.01	-1.19	1.23	1.14	1.40	**1.67**
2295	1,6,9,11,17,18,20,23,26,31,34,38,40,42,47,50,54	-1.35	-0.12	-1.46	-0.10	1.33	0.13	-1.11	0.72	1.25	-0.69	-0.39	-0.90	-1.35	-1.19	1.23	1.14	1.40	**-1.47**
2296	1,6,9,11,17,18,20,23,26,31,34,38,40,42,49,53,54	-1.40	-0.38	-1.48	-0.15	1.30	-0.73	-1.35	1.24	0.67	-0.82	-0.21	0.05	-1.38	-1.19	1.23	1.14	1.40	**-2.05**
2297	1,6,9,11,17,18,20,23,26,31,34,38,41,44,55	-0.89	-1.15	-0.73	-0.38	1.17	-1.16	-1.35	0.54	1.00	-0.77	0.08	-0.90	-0.86	-1.19	1.23	1.14	1.40	**-2.81**
2298	1,6,9,11,17,18,20,23,26,31,34,38,41,45,55	0.82	-0.12	0.11	0.63	0.68	0.98	-0.16	1.12	2.32	0.05	0.79	-0.90	0.02	-1.19	1.23	1.14	1.40	**8.92**
2299	1,6,9,11,17,18,20,23,26,31,34,38,43,47,46,48,51	-0.14	-0.64	-0.25	1.41	-0.04	0.13	-0.16	0.54	0.42	-0.89	1.22	1.01	-0.52	-1.19	1.23	1.14	1.40	**4.67**
2300	1,6,9,11,17,18,20,23,26,31,34,38,43,47,46,48,52,53,54	-0.47	-0.64	-0.61	1.03	0.49	-0.73	-0.40	0.72	0.55	-0.89	0.90	0.05	-1.01	-1.19	1.23	1.14	1.40	**1.58**
2301	1,6,9,11,17,18,20,23,26,31,34,38,43,47,49,53,54	-1.39	-0.38	-1.48	-0.07	1.34	-0.73	-1.35	1.24	0.67	-0.78	-0.21	0.05	-1.38	-1.19	1.23	1.14	1.40	**-1.88**
2302	1,6,9,11,17,18,20,23,26,31,34,38,43,50,54	-1.49	-0.90	-1.50	-0.19	1.28	-0.73	-1.11	0.72	1.25	-0.74	-0.45	-0.90	-1.42	-1.19	1.23	1.14	1.40	**-3.60**
2303	1,6,9,11,17,18,20,23,26,33,37,40,41,44,55	-0.86	-1.67	-0.73	-0.38	0.10	-0.73	-1.11	0.17	0.37	-0.76	0.10	-0.90	-0.82	-1.19	1.23	1.14	-0.72	**-6.75**
2304	1,6,9,11,17,18,20,23,26,33,37,40,41,45,55	0.84	-0.64	0.12	0.64	-0.39	1.41	0.08	0.75	1.70	0.05	0.81	-0.90	0.06	-1.19	1.23	1.14	-0.72	**4.98**
2305	1,6,9,11,17,18,20,23,26,33,37,40,43,47,46,48,51	-0.11	-0.64	-0.25	1.42	-1.12	0.55	0.08	0.17	-0.20	-0.88	1.24	1.01	-0.48	-1.19	1.23	1.14	-0.72	**1.24**
2306	1,6,9,11,17,18,20,23,26,33,37,40,43,47,46,48,52,53,54	-0.44	-0.64	-0.61	1.03	-0.58	-0.30	-0.16	0.35	-0.08	-0.88	0.92	0.05	-0.96	-1.19	1.23	1.14	-0.72	**-1.84**
2307	1,6,9,11,17,18,20,23,26,33,37,40,43,47,49,53,54	-1.37	-0.38	-1.47	-0.07	0.27	-0.30	-1.11	0.87	0.05	-0.78	-0.19	0.05	-1.34	-1.19	1.23	1.14	-0.72	**-5.31**
2308	1,6,9,11,17,18,20,23,26,33,37,40,43,50,54	-1.47	-0.90	-1.49	-0.18	0.20	-0.30	-0.87	0.35	0.63	-0.74	-0.43	-0.90	-1.38	-1.19	1.23	1.14	-0.72	**-7.03**
2309	1,6,9,11,17,18,20,23,26,33,37,42,46,48,51	-0.25	-1.41	-0.29	1.34	-1.16	-0.30	0.08	0.17	-0.20	-0.92	1.20	1.01	-0.55	-1.19	1.23	1.14	-0.72	**-0.83**
2310	1,6,9,11,17,18,20,23,26,33,37,42,46,48,52,53,54	-0.57	-1.41	-0.64	0.95	-0.63	-1.16	-0.16	0.35	-0.08	-0.92	0.88	0.05	-1.04	-1.19	1.23	1.14	-0.72	**-3.91**
2311	1,6,9,11,17,18,20,23,26,33,37,42,47,50,54	-1.46	-1.15	-1.49	-0.09	0.25	-0.30	-0.87	0.35	0.63	-0.68	-0.41	-0.90	-1.37	-1.19	1.23	1.14	-0.72	**-7.05**
2312	1,6,9,11,17,18,20,23,26,33,37,42,49,53,54	-1.50	-1.41	-1.51	-0.15	0.23	-1.16	-1.11	0.87	0.05	-0.81	-0.22	0.05	-1.41	-1.19	1.23	1.14	-0.72	**-7.64**
2313	1,6,9,11,17,18,20,23,27,28,31,30,32,46,47,50,54	1.07	0.66	0.16	-0.35	0.40	1.41	1.28	-0.24	1.92	0.21	0.70	-0.90	0.70	-0.46	1.23	-0.77	0.98	**7.99**
2314	1,6,9,11,17,18,20,23,27,28,31,30,32,46,49,53,54	1.02	0.40	0.14	-0.40	0.37	0.55	1.04	0.28	1.34	0.08	0.86	0.05	0.67	-0.46	1.23	-0.77	0.98	**7.39**
2315	1,6,9,11,17,18,20,23,27,28,31,30,32,48,51	0.52	-0.12	0.89	-0.99	-1.59	1.41	1.75	-0.42	1.10	-0.02	0.36	-0.90	1.18	-0.46	1.23	-0.77	0.98	**4.14**
2316	1,6,9,11,17,18,20,23,27,28,31,30,32,48,52,53,54	0.19	-0.12	0.53	-1.38	-1.05	0.55	1.52	-0.24	1.22	-0.02	0.04	-1.85	0.69	-0.46	1.23	-0.77	0.98	**1.05**
2317	1,6,9,11,17,18,20,23,27,28,31,33,37,40,41,44,55	-0.82	-1.15	-0.77	-0.35	0.30	-0.73	-1.11	0.17	0.02	-0.39	-0.15	-0.90	-0.85	-1.19	1.23	-0.77	-0.72	**-8.19**
2318	1,6,9,11,17,18,20,23,27,28,31,33,37,40,41,45,55	0.88	-0.12	0.07	0.67	-0.19	1.41	0.08	0.75	1.34	0.42	0.55	-0.90	0.03	-1.19	1.23	-0.77	-0.72	**3.54**
2319	1,6,9,11,17,18,20,23,27,28,31,33,37,40,43,47,46,48,51	-0.08	-0.12	-0.29	1.45	-0.91	0.55	0.08	0.17	-0.56	-0.51	0.98	1.01	-0.51	-1.19	1.23	-0.77	-0.72	**-0.20**
2320	1,6,9,11,17,18,20,23,27,28,31,33,37,40,43,47,46,48,52,53,54	-0.41	-0.12	-0.65	1.06	-0.38	-0.30	-0.16	0.35	-0.43	-0.51	0.66	0.05	-1.00	-1.19	1.23	-0.77	-0.72	**-3.28**
2321	1,6,9,11,17,18,20,23,27,28,31,33,37,40,43,47,49,53,54	-1.33	0.14	-1.51	-0.04	0.48	-0.30	-1.11	0.87	-0.31	-0.41	-0.45	0.05	-1.37	-1.19	1.23	-0.77	-0.72	**-6.75**
2322	1,6,9,11,17,18,20,23,27,28,31,33,37,40,43,50,54	-1.43	-0.38	-1.53	-0.16	0.41	-0.30	-0.87	0.35	0.27	-0.37	-0.69	-0.90	-1.41	-1.19	1.23	-0.77	-0.72	**-8.47**
2323	1,6,9,11,17,18,20,23,27,28,31,33,37,42,46,48,51	-0.21	-0.90	-0.33	1.37	-0.96	-0.30	0.08	0.17	-0.56	-0.55	0.94	1.01	-0.59	-1.19	1.23	-0.77	-0.72	**-2.27**
2324	1,6,9,11,17,18,20,23,27,28,31,33,37,42,46,48,52,53,54	-0.54	-0.90	-0.68	0.98	-0.42	-1.16	-0.16	0.35	-0.43	-0.55	0.62	0.05	-1.07	-1.19	1.23	-0.77	-0.72	**-5.35**
2325	1,6,9,11,17,18,20,23,27,28,31,33,37,42,47,50,54	-1.42	-0.64	-1.53	-0.07	0.46	-0.30	-0.87	0.35	0.27	-0.31	-0.66	-0.90	-1.41	-1.19	1.23	-0.77	-0.72	**-8.49**
2326	1,6,9,11,17,18,20,23,27,28,31,33,37,42,49,53,54	-1.47	-0.90	-1.55	-0.12	0.43	-1.16	-1.11	0.87	-0.31	-0.44	-0.48	0.05	-1.44	-1.19	1.23	-0.77	-0.72	**-9.08**
2327	1,6,9,11,17,18,20,23,27,28,34,35,37,40,41,44,55	-0.85	-1.15	-0.76	-0.33	0.66	-0.73	-1.35	0.17	0.32	-0.43	-0.18	-0.90	-0.89	-1.19	1.23	-0.77	-0.72	**-7.88**
2328	1,6,9,11,17,18,20,23,27,28,34,35,37,40,41,45,55	0.85	-0.12	0.08	0.69	0.17	1.41	-0.16	0.75	1.64	0.38	0.53	-0.90	-0.02	-1.19	1.23	-0.77	-0.72	**3.85**
2329	1,6,9,11,17,18,20,23,27,28,34,35,37,40,43,47,46,48,51	-0.11	-0.12	-0.28	1.47	-0.56	0.55	-0.16	0.17	-0.25	-0.56	0.95	1.01	-0.56	-1.19	1.23	-0.77	-0.72	**0.11**
2330	1,6,9,11,17,18,20,23,27,28,34,35,37,40,43,47,46,48,52,53,54	-0.43	-0.12	-0.64	1.08	-0.02	-0.30	-0.40	0.35	-0.13	-0.56	0.63	0.05	-1.04	-1.19	1.23	-0.77	-0.72	**-2.97**
2331	1,6,9,11,17,18,20,23,27,28,34,35,37,40,43,47,49,53,54	-1.36	0.14	-1.51	-0.02	0.83	-0.30	-1.35	0.87	-0.01	-0.45	-0.47	0.05	-1.41	-1.19	1.23	-0.77	-0.72	**-6.44**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
2332	1,6,9,11,17,18,20,23,27,28,34,35,37,40,43,50,54	-1.46	-0.38	-1.53	-0.14	0.77	-0.30	-1.11	0.35	0.57	-0.41	-0.71	-0.90	-1.46	-1.19	1.23	-0.77	-0.72	**-8.16**
2333	1,6,9,11,17,18,20,23,27,28,34,35,37,42,46,48,51	-0.24	-0.90	-0.32	1.39	-0.60	-0.30	-0.16	0.17	-0.25	-0.59	0.92	1.01	-0.63	-1.19	1.23	-0.77	-0.72	**-1.96**
2334	1,6,9,11,17,18,20,23,27,28,34,35,37,42,46,48,52,53,54	-0.57	-0.90	-0.68	1.00	-0.06	-1.16	-0.40	0.35	-0.13	-0.59	0.60	0.05	-1.12	-1.19	1.23	-0.77	-0.72	**-5.05**
2335	1,6,9,11,17,18,20,23,27,28,34,35,37,42,47,50,54	-1.45	-0.64	-1.53	-0.04	0.82	-0.30	-1.11	0.35	0.57	-0.36	-0.69	-0.90	-1.45	-1.19	1.23	-0.77	-0.72	**-8.19**
2336	1,6,9,11,17,18,20,23,27,28,34,35,37,42,49,53,54	-1.49	-0.90	-1.54	-0.10	0.79	-1.16	-1.35	0.87	-0.01	-0.48	-0.51	0.05	-1.49	-1.19	1.23	-0.77	-0.72	**-8.77**
2337	1,6,9,11,17,18,20,23,27,28,34,36,39,41,40,42,46,48,51	1.09	-0.12	0.81	1.65	-1.22	-0.30	0.56	0.32	-0.28	1.39	-0.15	1.01	0.41	-1.19	1.23	-0.77	-0.72	**3.70**
2338	1,6,9,11,17,18,20,23,27,28,34,36,39,41,40,42,46,48,52,53,54	0.77	-0.12	0.45	1.26	-0.68	-1.16	0.32	0.50	-0.16	1.39	-0.47	0.05	-0.07	-1.19	1.23	-0.77	-0.72	**0.61**
2339	1,6,9,11,17,18,20,23,27,28,34,36,39,41,40,42,47,50,54	-0.12	0.14	-0.40	0.21	0.20	-0.30	-0.40	0.50	0.54	1.62	-1.76	-0.90	-0.41	-1.19	1.23	-0.77	-0.72	**-2.53**
2340	1,6,9,11,17,18,20,23,27,28,34,36,39,41,40,42,49,53,54	-0.16	-0.12	-0.42	0.16	0.17	-1.16	-0.64	1.02	-0.04	1.49	-1.57	0.05	-0.45	-1.19	1.23	-0.77	-0.72	**-3.11**
2341	1,6,9,11,17,18,20,23,27,28,34,36,39,41,43,47,46,48,51	1.09	0.14	0.81	1.72	-1.17	-0.30	0.56	0.32	-0.28	1.42	-0.15	1.01	0.41	-1.19	1.23	-0.77	-0.72	**4.13**
2342	1,6,9,11,17,18,20,23,27,28,34,36,39,41,43,47,46,48,52,53,54	0.77	0.14	0.45	1.34	-0.64	-1.16	0.32	0.50	-0.16	1.42	-0.47	0.05	-0.07	-1.19	1.23	-0.77	-0.72	**1.04**
2343	1,6,9,11,17,18,20,23,27,28,34,36,39,41,43,47,49,53,54	-0.16	0.40	-0.42	0.24	0.22	-1.16	-0.64	1.02	-0.04	1.52	-1.57	0.05	-0.44	-1.19	1.23	-0.77	-0.72	**-2.43**
2344	1,6,9,11,17,18,20,23,27,28,34,36,39,41,43,50,54	-0.26	-0.12	-0.44	0.12	0.15	-1.16	-0.40	0.50	0.54	1.57	-1.81	-0.90	-0.48	-1.19	1.23	-0.77	-0.72	**-4.14**
2345	1,6,9,11,17,18,20,23,27,28,34,36,39,44,55	-1.19	-1.41	-0.09	-0.07	0.04	-1.59	-1.59	0.32	0.29	1.54	-1.96	-0.90	-0.55	-1.19	1.23	-0.77	-0.72	**-8.62**
2346	1,6,9,11,17,18,20,23,27,28,34,36,39,45,55	0.51	-0.38	0.75	0.95	-0.45	0.55	-0.40	0.89	1.61	2.35	-1.26	-0.90	0.33	-1.19	1.23	-0.77	-0.72	**3.12**
2347	1,6,9,11,17,18,20,23,27,28,34,38,40,42,46,48,51	-0.20	-0.90	-0.32	1.36	0.12	0.13	-0.16	0.54	0.07	-0.58	0.88	1.01	-0.62	-1.19	1.23	-0.77	1.40	**1.99**
2348	1,6,9,11,17,18,20,23,27,28,34,38,40,42,46,48,52,53,54	-0.53	-0.90	-0.68	0.97	0.65	-0.73	-0.40	0.72	0.19	-0.58	0.56	0.05	-1.11	-1.19	1.23	-0.77	1.40	**-1.09**
2349	1,6,9,11,17,18,20,23,27,28,34,38,40,42,47,50,54	-1.41	-0.64	-1.53	-0.08	1.53	0.13	-1.11	0.72	0.90	-0.34	-0.73	-0.90	-1.44	-1.19	1.23	-0.77	1.40	**-4.23**
2350	1,6,9,11,17,18,20,23,27,28,34,38,40,42,49,53,54	-1.46	-0.90	-1.55	-0.13	1.51	-0.73	-1.35	1.24	0.32	-0.47	-0.55	0.05	-1.48	-1.19	1.23	-0.77	1.40	**-4.82**
2351	1,6,9,11,17,18,20,23,27,28,34,38,41,44,55	-0.94	-1.67	-0.80	-0.36	1.38	-1.16	-1.35	0.54	0.64	-0.42	-0.26	-0.90	-0.96	-1.19	1.23	-0.77	1.40	**-5.58**
2352	1,6,9,11,17,18,20,23,27,28,34,38,41,45,55	0.76	-0.64	0.04	0.66	0.89	0.98	-0.16	1.12	1.97	0.39	0.45	-0.90	-0.08	-1.19	1.23	-0.77	1.40	**6.16**
2353	1,6,9,11,17,18,20,23,27,28,34,38,43,47,46,48,51	-0.20	-1.15	-0.32	1.44	0.16	0.13	-0.16	0.54	0.07	-0.54	0.88	1.01	-0.62	-1.19	1.23	-0.77	1.40	**1.90**
2354	1,6,9,11,17,18,20,23,27,28,34,38,43,47,46,48,52,53,54	-0.53	-1.15	-0.68	1.05	0.70	-0.73	-0.40	0.72	0.19	-0.54	0.56	0.05	-1.10	-1.19	1.23	-0.77	1.40	**-1.18**
2355	1,6,9,11,17,18,20,23,27,28,34,38,43,47,49,53,54	-1.45	-0.90	-1.54	-0.05	1.55	-0.73	-1.35	1.24	0.32	-0.44	-0.54	0.05	-1.48	-1.19	1.23	-0.77	1.40	**-4.65**
2356	1,6,9,11,17,18,20,23,27,28,34,38,43,50,54	-1.55	-1.41	-1.56	-0.17	1.48	-0.73	-1.11	0.72	0.90	-0.40	-0.78	-0.90	-1.52	-1.19	1.23	-0.77	1.40	**-6.37**
2357	1,6,9,11,17,19,22,24,29,36,35,37,40,41,44,55	0.71	-0.38	0.58	-0.84	-0.43	0.13	-0.16	-0.87	0.10	-0.55	0.55	-0.90	1.03	0.89	1.23	-0.77	-0.72	**-0.43**
2358	1,6,9,11,17,19,22,24,29,36,35,37,40,41,45,55	2.41	0.66	1.42	0.17	-0.93	2.27	1.04	-0.30	1.42	0.26	1.26	-0.90	1.90	0.89	1.23	-0.77	-0.72	**11.31**
2359	1,6,9,11,17,19,22,24,29,36,35,37,40,43,47,46,48,51	1.46	0.66	1.06	0.95	-1.65	1.41	1.04	-0.87	-0.47	-0.68	1.68	1.01	1.36	0.89	1.23	-0.77	-0.72	**7.57**
2360	1,6,9,11,17,19,22,24,29,36,35,37,40,43,47,46,48,52,53,54	1.13	0.66	0.70	0.57	-1.11	0.55	0.80	-0.70	-0.35	-0.68	1.36	0.05	0.88	0.89	1.23	-0.77	-0.72	**4.49**
2361	1,6,9,11,17,19,22,24,29,36,35,37,40,43,47,49,53,54	0.20	0.92	-0.17	-0.53	-0.26	0.55	-0.16	-0.18	-0.23	-0.57	0.26	0.05	0.51	0.89	1.23	-0.77	-0.72	**1.02**
2362	1,6,9,11,17,19,22,24,29,36,35,37,40,43,50,54	0.10	0.40	-0.19	-0.65	-0.33	0.55	0.08	-0.70	0.36	-0.53	0.02	-0.90	0.46	0.89	1.23	-0.77	-0.72	**-0.70**
2363	1,6,9,11,17,19,22,24,29,36,35,37,42,46,48,51	1.32	-0.12	1.02	0.87	-1.70	0.55	1.04	-0.87	-0.47	-0.71	1.64	1.01	1.29	0.89	1.23	-0.77	-0.72	**5.50**
2364	1,6,9,11,17,19,22,24,29,36,35,37,42,46,48,52,53,54	1.00	-0.12	0.66	0.49	-1.16	-0.30	0.80	-0.70	-0.35	-0.71	1.33	0.05	0.80	0.89	1.23	-0.77	-0.72	**2.41**
2365	1,6,9,11,17,19,22,24,29,36,35,37,42,47,50,54	0.11	0.14	-0.18	-0.56	-0.28	0.55	0.08	-0.70	0.36	-0.48	0.04	-0.90	0.47	0.89	1.23	-0.77	-0.72	**-0.73**
2366	1,6,9,11,17,19,22,24,29,36,35,37,42,49,53,54	0.07	-0.12	-0.20	-0.61	-0.31	-0.30	-0.16	-0.18	-0.23	-0.61	0.22	0.05	0.43	0.89	1.23	-0.77	-0.72	**-1.31**
2367	1,6,9,11,17,19,22,24,29,36,38,40,42,46,48,51	1.36	0.14	1.02	0.84	-0.98	0.98	1.04	-0.51	-0.15	-0.70	1.60	1.01	1.30	0.89	1.23	-0.77	1.40	**9.71**
2368	1,6,9,11,17,19,22,24,29,36,38,40,42,46,48,52,53,54	1.04	0.14	0.66	0.46	-0.44	0.13	0.80	-0.33	-0.03	-0.70	1.29	0.05	0.81	0.89	1.23	-0.77	1.40	**6.63**
2369	1,6,9,11,17,19,22,24,29,36,38,40,42,47,50,54	0.15	0.40	-0.19	-0.59	0.44	0.98	0.08	-0.33	0.68	-0.47	0.00	-0.90	0.48	0.89	1.23	-0.77	1.40	**3.49**
2370	1,6,9,11,17,19,22,24,29,36,38,40,42,49,53,54	0.11	0.14	-0.21	-0.64	0.41	0.13	-0.16	0.19	0.10	-0.59	0.18	0.05	0.44	0.89	1.23	-0.77	1.40	**2.90**
2371	1,6,9,11,17,19,22,24,29,36,38,41,44,55	0.62	-0.64	0.54	-0.87	0.28	-0.30	-0.16	-0.51	0.42	-0.54	0.47	-0.90	0.96	0.89	1.23	-0.77	1.40	**2.14**
2372	1,6,9,11,17,19,22,24,29,36,38,41,45,55	2.32	0.40	1.38	0.14	-0.21	1.84	1.04	0.07	1.75	0.27	1.18	-0.90	1.84	0.89	1.23	-0.77	1.40	**13.87**
2373	1,6,9,11,17,19,22,24,29,36,38,43,47,46,48,51	1.36	-0.12	1.02	0.92	-0.93	0.98	1.04	-0.51	-0.15	-0.67	1.61	1.01	1.30	0.89	1.23	-0.77	1.40	**9.62**
2374	1,6,9,11,17,19,22,24,29,36,38,43,47,46,48,52,53,54	1.04	-0.12	0.66	0.54	-0.40	0.13	0.80	-0.33	-0.03	-0.67	1.29	0.05	0.82	0.89	1.23	-0.77	1.40	**6.53**
2375	1,6,9,11,17,19,22,24,29,36,38,43,47,49,53,54	0.11	0.14	-0.20	-0.56	0.45	0.13	-0.16	0.19	0.10	-0.56	0.19	0.05	0.44	0.89	1.23	-0.77	1.40	**3.07**
2376	1,6,9,11,17,19,22,24,29,36,38,43,50,54	0.01	-0.38	-0.22	-0.68	0.39	0.13	0.08	-0.33	0.68	-0.52	-0.06	-0.90	0.40	0.89	1.23	-0.77	1.40	**1.35**
2377	1,6,9,11,17,19,22,24,29,39,41,40,42,46,48,51	1.56	-0.12	1.85	0.50	-2.31	-0.30	1.75	-0.73	-0.50	0.62	0.34	1.01	1.78	0.89	1.23	-0.77	-0.72	**6.06**
2378	1,6,9,11,17,19,22,24,29,39,41,40,42,46,48,52,53,54	1.24	-0.12	1.49	0.11	-1.78	-1.16	1.52	-0.55	-0.38	0.62	0.02	0.05	1.29	0.89	1.23	-0.77	-0.72	**2.98**
2379	1,6,9,11,17,19,22,24,29,39,41,40,42,47,50,54	0.35	0.14	0.65	-0.94	-0.90	-0.30	0.80	-0.55	0.33	0.85	-1.27	-0.90	0.95	0.89	1.23	-0.77	-0.72	**-0.16**
2380	1,6,9,11,17,19,22,24,29,39,41,40,42,49,53,54	0.31	-0.12	0.63	-0.99	-0.93	-1.16	0.56	-0.03	-0.26	0.73	-1.09	0.05	0.92	0.89	1.23	-0.77	-0.72	**-0.75**
2381	1,6,9,11,17,19,22,24,29,39,41,43,47,46,48,51	1.57	0.14	1.85	0.58	-2.27	-0.30	1.75	-0.73	-0.50	0.66	0.34	1.01	1.78	0.89	1.23	-0.77	-0.72	**6.49**
2382	1,6,9,11,17,19,22,24,29,39,41,43,47,46,48,52,53,54	1.24	0.14	1.50	0.19	-1.73	-1.16	1.52	-0.55	-0.38	0.66	0.02	0.05	1.29	0.89	1.23	-0.77	-0.72	**3.41**
2383	1,6,9,11,17,19,22,24,29,39,41,43,47,49,53,54	0.31	0.40	0.63	-0.91	-0.88	-1.16	0.56	-0.03	-0.26	0.76	-1.08	0.05	0.92	0.89	1.23	-0.77	-0.72	**-0.06**
2384	1,6,9,11,17,19,22,24,29,39,41,43,50,54	0.21	-0.12	0.61	-1.03	-0.95	-1.16	0.80	-0.55	0.33	0.80	-1.32	-0.90	0.88	0.89	1.23	-0.77	-0.72	**-1.78**
2385	1,6,9,11,17,19,22,24,29,39,44,55	-0.72	-1.41	0.96	-1.22	-1.05	-1.59	-0.40	-0.73	0.07	0.78	-1.48	-0.90	0.82	0.89	1.23	-0.77	-0.72	**-6.25**
2386	1,6,9,11,17,19,22,24,29,39,45,55	0.98	-0.38	1.80	-0.20	-1.54	0.55	0.80	-0.15	1.39	1.59	-0.77	-0.90	1.69	0.89	1.23	-0.77	-0.72	**5.48**
2387	1,6,9,11,17,19,22,25,29,36,35,37,40,41,44,55	0.50	-0.64	0.52	-1.28	-0.10	0.13	0.08	-0.85	-0.34	-0.48	0.18	-0.90	0.97	0.92	1.23	-0.77	-0.72	**-1.56**
2388	1,6,9,11,17,19,22,25,29,36,35,37,40,41,45,55	2.20	0.40	1.36	-0.26	-0.59	2.27	1.28	-0.27	0.99	0.33	0.89	-0.90	1.84	0.92	1.23	-0.77	-0.72	**10.18**
2389	1,6,9,11,17,19,22,25,29,36,35,37,40,43,47,46,48,51	1.24	0.40	1.00	0.52	-1.32	1.41	1.28	-0.85	-0.91	-0.61	1.32	1.01	1.30	0.92	1.23	-0.77	-0.72	**6.44**
2390	1,6,9,11,17,19,22,25,29,36,35,37,40,43,47,46,48,52,53,54	0.91	0.40	0.64	0.13	-0.78	0.55	1.04	-0.67	-0.79	-0.61	1.00	0.05	0.82	0.92	1.23	-0.77	-0.72	**3.35**
2391	1,6,9,11,17,19,22,25,29,36,35,37,40,43,47,49,53,54	-0.01	0.66	-0.23	-0.97	0.07	0.55	0.08	-0.15	-0.66	-0.50	-0.11	0.05	0.45	0.92	1.23	-0.77	-0.72	**-0.11**
2392	1,6,9,11,17,19,22,25,29,36,35,37,40,43,50,54	-0.11	0.14	-0.24	-1.09	0.00	0.55	0.32	-0.67	-0.08	-0.46	-0.35	-0.90	0.40	0.92	1.23	-0.77	-0.72	**-1.83**
2393	1,6,9,11,17,19,22,25,29,36,35,37,42,46,48,51	1.11	-0.38	0.96	0.44	-1.36	0.55	1.28	-0.85	-0.91	-0.64	1.28	1.01	1.23	0.92	1.23	-0.77	-0.72	**4.37**
2394	1,6,9,11,17,19,22,25,29,36,35,37,42,46,48,52,53,54	0.78	-0.38	0.60	0.05	-0.83	-0.30	1.04	-0.67	-0.79	-0.64	0.96	0.05	0.75	0.92	1.23	-0.77	-0.72	**1.28**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
2395	1,6,9,11,17,19,22,25,29,36,35,37,42,47,50,54	-0.10	-0.12	-0.24	-0.99	0.05	0.55	0.32	-0.67	-0.08	-0.41	-0.33	-0.90	0.41	0.92	1.23	-0.77	-0.72	**-1.86**
2396	1,6,9,11,17,19,22,25,29,36,35,37,42,49,53,54	-0.15	-0.38	-0.26	-1.05	0.03	-0.30	0.08	-0.15	-0.66	-0.54	-0.14	0.05	0.37	0.92	1.23	-0.77	-0.72	**-2.44**
2397	1,6,9,11,17,19,22,25,29,36,38,40,42,46,48,51	1.15	-0.12	0.96	0.41	-0.65	0.98	1.28	-0.48	-0.59	-0.63	1.24	1.01	1.24	0.92	1.23	-0.77	1.40	**8.58**
2398	1,6,9,11,17,19,22,25,29,36,38,40,42,46,48,52,53,54	0.82	-0.12	0.60	0.02	-0.11	0.13	1.04	-0.31	-0.47	-0.63	0.92	0.05	0.75	0.92	1.23	-0.77	1.40	**5.49**
2399	1,6,9,11,17,19,22,25,29,36,38,40,42,47,50,54	-0.06	0.14	-0.24	-1.03	0.77	0.98	0.32	-0.31	0.24	-0.40	-0.37	-0.90	0.42	0.92	1.23	-0.77	1.40	**2.35**
2400	1,6,9,11,17,19,22,25,29,36,38,40,42,49,53,54	-0.11	-0.12	-0.26	-1.08	0.74	0.13	0.08	0.22	-0.34	-0.52	-0.18	0.05	0.38	0.92	1.23	-0.77	1.40	**1.77**
2401	1,6,9,11,17,19,22,25,29,36,38,41,44,55	0.41	-0.90	0.49	-1.31	0.62	-0.30	0.08	-0.48	-0.01	-0.47	0.11	-0.90	0.91	0.92	1.23	-0.77	1.40	**1.01**
2402	1,6,9,11,17,19,22,25,29,36,38,41,45,55	2.11	0.14	1.33	-0.29	0.12	1.84	1.28	0.09	1.31	0.34	0.81	-0.90	1.78	0.92	1.23	-0.77	1.40	**12.74**
2403	1,6,9,11,17,19,22,25,29,36,38,43,47,46,48,51	1.15	-0.38	0.96	0.49	-0.60	0.98	1.28	-0.48	-0.59	-0.60	1.24	1.01	1.24	0.92	1.23	-0.77	1.40	**8.49**
2404	1,6,9,11,17,19,22,25,29,36,38,43,47,46,48,52,53,54	0.82	-0.38	0.61	0.10	-0.06	0.13	1.04	-0.31	-0.47	-0.60	0.93	0.05	0.76	0.92	1.23	-0.77	1.40	**5.40**
2405	1,6,9,11,17,19,22,25,29,36,38,43,47,49,53,54	-0.10	-0.12	-0.26	-1.00	0.79	0.13	0.08	0.22	-0.34	-0.49	-0.18	0.05	0.39	0.92	1.23	-0.77	1.40	**1.94**
2406	1,6,9,11,17,19,22,25,29,36,38,43,50,54	-0.20	-0.64	-0.28	-1.12	0.72	0.13	0.32	-0.31	0.24	-0.45	-0.42	-0.90	0.34	0.92	1.23	-0.77	1.40	**0.22**
2407	1,6,9,11,17,19,22,25,29,39,41,40,42,46,48,51	1.35	-0.38	1.79	0.07	-1.98	-0.30	1.99	-0.71	-0.94	0.69	-0.03	1.01	1.72	0.92	1.23	-0.77	-0.72	**4.93**
2408	1,6,9,11,17,19,22,25,29,39,41,40,42,46,48,52,53,54	1.02	-0.38	1.44	-0.32	-1.44	-1.16	1.75	-0.53	-0.82	0.69	-0.35	0.05	1.23	0.92	1.23	-0.77	-0.72	**1.85**
2409	1,6,9,11,17,19,22,25,29,39,41,40,42,47,50,54	0.14	-0.12	0.59	-1.37	-0.56	-0.30	1.04	-0.53	-0.11	0.92	-1.64	-0.90	0.90	0.92	1.23	-0.77	-0.72	**-1.29**
2410	1,6,9,11,17,19,22,25,29,39,41,40,42,49,53,54	0.09	-0.38	0.57	-1.42	-0.59	-1.16	0.80	-0.01	-0.69	0.80	-1.45	0.05	0.86	0.92	1.23	-0.77	-0.72	**-1.88**
2411	1,6,9,11,17,19,22,25,29,39,41,43,47,46,48,51	1.35	-0.12	1.79	0.15	-1.94	-0.30	1.99	-0.71	-0.94	0.73	-0.02	1.01	1.72	0.92	1.23	-0.77	-0.72	**5.36**
2412	1,6,9,11,17,19,22,25,29,39,41,43,47,46,48,52,53,54	1.02	-0.12	1.44	-0.24	-1.40	-1.16	1.75	-0.53	-0.82	0.73	-0.34	0.05	1.24	0.92	1.23	-0.77	-0.72	**2.27**
2413	1,6,9,11,17,19,22,25,29,39,41,43,47,49,53,54	0.10	0.14	0.57	-1.34	-0.55	-1.16	0.80	-0.01	-0.69	0.83	-1.45	0.05	0.86	0.92	1.23	-0.77	-0.72	**-1.19**
2414	1,6,9,11,17,19,22,25,29,39,41,43,50,54	0.00	-0.38	0.55	-1.46	-0.61	-1.16	1.04	-0.53	-0.11	0.87	-1.69	-0.90	0.82	0.92	1.23	-0.77	-0.72	**-2.91**
2415	1,6,9,11,17,19,22,25,29,39,44,55	-0.94	-1.67	0.90	-1.65	-0.72	-1.59	-0.16	-0.71	-0.37	0.85	-1.84	-0.90	0.76	0.92	1.23	-0.77	-0.72	**-7.39**
2416	1,6,9,11,17,19,22,25,29,39,45,55	0.76	-0.64	1.74	-0.63	-1.21	0.55	1.04	-0.13	0.96	1.66	-1.14	-0.90	1.63	0.92	1.23	-0.77	-0.72	**4.35**
2417	1,6,9,11,17,21,27,26,30,32,46,47,50,54	1.03	0.66	0.34	-0.62	0.22	2.27	1.75	-0.93	1.74	-0.60	1.38	-0.90	1.01	-0.37	1.23	1.14	0.98	**10.34**
2418	1,6,9,11,17,21,27,26,30,32,46,49,53,54	0.99	0.40	0.32	-0.67	0.20	1.41	1.52	-0.41	1.16	-0.73	1.54	0.05	0.97	-0.37	1.23	1.14	0.98	**9.73**
2419	1,6,9,11,17,21,27,26,30,32,48,51	0.49	-0.12	1.07	-1.26	-1.76	2.27	2.23	-1.11	0.91	-0.83	1.03	-0.90	1.48	-0.37	1.23	1.14	0.98	**6.48**
2420	1,6,9,11,17,21,27,26,30,32,48,52,53,54	0.16	-0.12	0.71	-1.65	-1.22	1.41	1.99	-0.93	1.04	-0.83	0.71	-1.85	0.99	-0.37	1.23	1.14	0.98	**3.40**
2421	1,6,9,11,17,21,27,26,31,34,35,37,40,41,44,55	-0.79	-0.64	-0.55	-0.60	0.49	0.13	-0.87	-0.52	0.14	-1.22	0.58	-0.90	-0.53	-1.09	1.23	1.14	-0.72	**-4.73**
2422	1,6,9,11,17,21,27,26,31,34,35,37,40,41,45,55	0.91	0.40	0.29	0.42	0.00	2.27	0.32	0.06	1.46	-0.41	1.28	-0.90	0.35	-1.09	1.23	1.14	-0.72	**7.00**
2423	1,6,9,11,17,21,27,26,31,34,35,37,40,43,47,46,48,51	-0.04	0.40	-0.08	1.20	-0.73	1.41	0.32	-0.52	-0.44	-1.34	1.71	1.01	-0.19	-1.09	1.23	1.14	-0.72	**3.26**
2424	1,6,9,11,17,21,27,26,31,34,35,37,40,43,47,46,48,52,53,54	-0.37	0.40	-0.43	0.81	-0.19	0.55	0.08	-0.34	-0.31	-1.34	1.39	0.05	-0.67	-1.09	1.23	1.14	-0.72	**0.18**
2425	1,6,9,11,17,21,27,26,31,34,35,37,40,43,47,49,53,54	-1.30	0.66	-1.30	-0.29	0.66	0.55	-0.87	0.18	-0.19	-1.24	0.28	0.05	-1.05	-1.09	1.23	1.14	-0.72	**-3.29**
2426	1,6,9,11,17,21,27,26,31,34,35,37,40,43,50,54	-1.40	0.14	-1.32	-0.41	0.60	0.55	-0.64	-0.34	0.39	-1.20	0.04	-0.90	-1.09	-1.09	1.23	1.14	-0.72	**-5.01**
2427	1,6,9,11,17,21,27,26,31,34,35,37,42,46,48,51	-0.18	-0.38	-0.11	1.12	-0.77	0.55	0.32	-0.52	-0.44	-1.38	1.67	1.01	-0.26	-1.09	1.23	1.14	-0.72	**1.19**
2428	1,6,9,11,17,21,27,26,31,34,35,37,42,46,48,52,53,54	-0.50	-0.38	-0.47	0.73	-0.23	-0.30	0.08	-0.34	-0.31	-1.38	1.35	0.05	-0.75	-1.09	1.23	1.14	-0.72	**-1.89**
2429	1,6,9,11,17,21,27,26,31,34,35,37,42,47,50,54	-1.39	-0.12	-1.32	-0.32	0.65	0.55	-0.64	-0.34	0.39	-1.14	0.07	-0.90	-1.08	-1.09	1.23	1.14	-0.72	**-5.03**
2430	1,6,9,11,17,21,27,26,31,34,35,37,42,49,53,54	-1.43	-0.38	-1.34	-0.37	0.62	-0.30	-0.87	0.18	-0.19	-1.27	0.25	0.05	-1.12	-1.09	1.23	1.14	-0.72	**-5.62**
2431	1,6,9,11,17,21,27,26,31,34,36,39,41,40,42,46,48,51	1.16	0.40	1.01	1.37	-1.39	0.55	1.04	-0.37	-0.47	0.60	0.60	1.01	0.78	-1.09	1.23	1.14	-0.72	**6.85**
2432	1,6,9,11,17,21,27,26,31,34,36,39,41,40,42,46,48,52,53,54	0.83	0.40	0.66	0.98	-0.85	-0.30	0.80	-0.20	-0.34	0.60	0.28	0.05	0.29	-1.09	1.23	1.14	-0.72	**3.76**
2433	1,6,9,11,17,21,27,26,31,34,36,39,41,40,42,47,50,54	-0.05	0.66	-0.19	-0.06	0.03	0.55	0.08	-0.20	0.36	0.83	-1.00	-0.90	-0.04	-1.09	1.23	1.14	-0.72	**0.62**
2434	1,6,9,11,17,21,27,26,31,34,36,39,41,40,42,49,53,54	-0.10	0.40	-0.21	-0.12	0.00	-0.30	-0.16	0.33	-0.22	0.70	-0.82	0.05	-0.08	-1.09	1.23	1.14	-0.72	**0.04**
2435	1,6,9,11,17,21,27,26,31,34,36,39,41,43,47,46,48,51	1.16	0.66	1.01	1.45	-1.35	0.55	1.04	-0.37	-0.47	0.63	0.61	1.01	0.78	-1.09	1.23	1.14	-0.72	**7.28**
2436	1,6,9,11,17,21,27,26,31,34,36,39,41,43,47,46,48,52,53,54	0.83	0.66	0.66	1.06	-0.81	-0.30	0.80	-0.20	-0.34	0.63	0.29	0.05	0.30	-1.09	1.23	1.14	-0.72	**4.19**
2437	1,6,9,11,17,21,27,26,31,34,36,39,41,43,47,49,53,54	-0.10	0.92	-0.21	-0.04	0.04	-0.30	-0.16	0.33	-0.22	0.73	-0.81	0.05	-0.07	-1.09	1.23	1.14	-0.72	**0.73**
2438	1,6,9,11,17,21,27,26,31,34,36,39,41,43,50,54	-0.20	0.40	-0.23	-0.15	-0.02	-0.30	0.08	-0.20	0.36	0.78	-1.06	-0.90	-0.12	-1.09	1.23	1.14	-0.72	**-0.99**
2439	1,6,9,11,17,21,27,26,31,34,36,39,44,55	-1.13	-0.90	0.12	-0.35	-0.13	-0.73	-1.11	-0.37	0.11	0.75	-1.21	-0.90	-0.18	-1.09	1.23	1.14	-0.72	**-5.47**
2440	1,6,9,11,17,21,27,26,31,34,36,39,45,55	0.57	0.14	0.96	0.67	-0.62	1.41	0.08	0.20	1.43	1.56	-0.50	-0.90	0.70	-1.09	1.23	1.14	-0.72	**6.27**
2441	1,6,9,11,17,21,27,26,31,34,38,40,42,46,48,51	-0.14	-0.38	-0.12	1.08	-0.05	0.98	0.32	-0.15	-0.11	-1.36	1.63	1.01	-0.26	-1.09	1.23	1.14	1.40	**5.15**
2442	1,6,9,11,17,21,27,26,31,34,38,40,42,46,48,52,53,54	-0.46	-0.38	-0.47	0.70	0.48	0.13	0.08	0.03	0.01	-1.36	1.31	0.05	-0.74	-1.09	1.23	1.14	1.40	**2.06**
2443	1,6,9,11,17,21,27,26,31,34,38,40,42,47,50,54	-1.35	-0.12	-1.32	-0.35	1.36	0.98	-0.64	0.03	0.72	-1.13	0.03	-0.90	-1.08	-1.09	1.23	1.14	1.40	**-1.08**
2444	1,6,9,11,17,21,27,26,31,34,38,40,42,49,53,54	-1.39	-0.38	-1.34	-0.40	1.34	0.13	-0.87	0.55	0.13	-1.26	0.21	0.05	-1.11	-1.09	1.23	1.14	1.40	**-1.67**
2445	1,6,9,11,17,21,27,26,31,34,38,41,44,55	-0.88	-1.15	-0.59	-0.63	1.21	-0.30	-0.87	-0.15	0.46	-1.21	0.50	-0.90	-0.59	-1.09	1.23	1.14	1.40	**-2.43**
2446	1,6,9,11,17,21,27,26,31,34,38,41,45,55	0.82	-0.12	0.25	0.39	0.72	1.84	0.32	0.43	1.78	-0.40	1.21	-0.90	0.29	-1.09	1.23	1.14	1.40	**9.31**
2447	1,6,9,11,17,21,27,26,31,34,38,43,47,46,48,51	-0.14	-0.64	-0.11	1.16	-0.01	0.98	0.32	-0.15	-0.11	-1.33	1.64	1.01	-0.25	-1.09	1.23	1.14	1.40	**5.05**
2448	1,6,9,11,17,21,27,26,31,34,38,43,47,46,48,52,53,54	-0.46	-0.64	-0.47	0.78	0.53	0.13	0.08	0.03	0.01	-1.33	1.32	0.05	-0.74	-1.09	1.23	1.14	1.40	**1.97**
2449	1,6,9,11,17,21,27,26,31,34,38,43,47,49,53,54	-1.39	-0.38	-1.34	-0.32	1.38	0.13	-0.87	0.55	0.13	-1.23	0.21	0.05	-1.11	-1.09	1.23	1.14	1.40	**-1.50**
2450	1,6,9,11,17,21,27,26,31,34,38,43,50,54	-1.49	-0.90	-1.36	-0.44	1.31	0.13	-0.64	0.03	0.72	-1.18	-0.03	-0.90	-1.15	-1.09	1.23	1.14	1.40	**-3.22**
2451	1,6,9,11,17,21,27,26,33,37,40,41,44,55	-0.85	-1.67	-0.58	-0.62	0.13	0.13	-0.64	-0.52	-0.16	-1.20	0.52	-0.90	-0.55	-1.09	1.23	1.14	-0.72	**-6.37**
2452	1,6,9,11,17,21,27,26,33,37,40,41,45,55	0.85	-0.64	0.26	0.40	-0.36	2.27	0.56	0.06	1.16	-0.39	1.23	-0.90	0.33	-1.09	1.23	1.14	-0.72	**5.37**
2453	1,6,9,11,17,21,27,26,33,37,40,43,47,46,48,51	-0.11	-0.64	-0.11	1.17	-1.09	1.41	0.56	-0.52	-0.74	-1.33	1.66	1.01	-0.21	-1.09	1.23	1.14	-0.72	**1.63**
2454	1,6,9,11,17,21,27,26,33,37,40,43,47,46,48,52,53,54	-0.44	-0.64	-0.46	0.79	-0.55	0.55	0.32	-0.34	-0.62	-1.33	1.34	0.05	-0.69	-1.09	1.23	1.14	-0.72	**-1.46**
2455	1,6,9,11,17,21,27,26,33,37,40,43,47,49,53,54	-1.36	-0.38	-1.33	-0.31	0.30	0.55	-0.64	0.18	-0.49	-1.22	0.23	0.05	-1.07	-1.09	1.23	1.14	-0.72	**-4.92**
2456	1,6,9,11,17,21,27,26,33,37,40,43,50,54	-1.46	-0.90	-1.35	-0.43	0.24	0.55	-0.40	-0.34	0.09	-1.18	-0.01	-0.90	-1.11	-1.09	1.23	1.14	-0.72	**-6.64**
2457	1,6,9,11,17,21,27,26,33,37,42,46,48,51	-0.24	-1.41	-0.15	1.09	-1.13	0.55	0.56	-0.52	-0.74	-1.36	1.62	1.01	-0.28	-1.09	1.23	1.14	-0.72	**-0.44**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
2458	1,6,9,11,17,21,27,26,33,37,42,46,48,52,53,54	-0.57	-1.41	-0.50	0.71	-0.59	-0.30	0.32	-0.34	-0.62	-1.36	1.30	0.05	-0.77	-1.09	1.23	1.14	-0.72	**-3.53**
2459	1,6,9,11,17,21,27,26,33,37,42,47,50,54	-1.45	-1.15	-1.35	-0.34	0.29	0.55	-0.40	-0.34	0.09	-1.13	0.01	-0.90	-1.10	-1.09	1.23	1.14	-0.72	**-6.67**
2460	1,6,9,11,17,21,27,26,33,37,42,49,53,54	-1.50	-1.41	-1.37	-0.39	0.26	-0.30	-0.64	0.18	-0.49	-1.26	0.20	0.05	-1.14	-1.09	1.23	1.14	-0.72	**-7.25**
2461	1,6,9,11,17,21,28,31,30,32,46,47,50,54	0.96	0.14	0.27	-0.59	0.43	2.27	1.75	-0.93	1.39	-0.36	1.12	-0.90	0.91	-0.37	1.23	-0.77	0.98	**7.54**
2462	1,6,9,11,17,21,28,31,30,32,46,49,53,54	0.92	-0.12	0.25	-0.64	0.40	1.41	1.52	-0.41	0.81	-0.49	1.28	0.05	0.88	-0.37	1.23	-0.77	0.98	**6.93**
2463	1,6,9,11,17,21,28,31,30,32,48,51	0.42	-0.64	1.00	-1.24	-1.55	2.27	2.23	-1.11	0.56	-0.59	0.78	-0.90	1.39	-0.37	1.23	-0.77	0.98	**3.68**
2464	1,6,9,11,17,21,28,31,30,32,48,52,53,54	0.09	-0.64	0.64	-1.62	-1.01	1.41	1.99	-0.93	0.68	-0.59	0.46	-1.85	0.90	-0.37	1.23	-0.77	0.98	**0.60**
2465	1,6,9,11,17,21,28,31,33,37,40,41,44,55	-0.93	-1.67	-0.65	-0.60	0.34	0.13	-0.64	-0.52	-0.52	-0.96	0.27	-0.90	-0.64	-1.09	1.23	-0.77	-0.72	**-8.65**
2466	1,6,9,11,17,21,28,31,33,37,40,41,45,55	0.77	-0.64	0.19	0.42	-0.15	2.27	0.56	0.06	0.81	-0.15	0.97	-0.90	0.24	-1.09	1.23	-0.77	-0.72	**3.09**
2467	1,6,9,11,17,21,28,31,33,37,40,43,47,46,48,51	-0.18	-0.64	-0.18	1.20	-0.88	1.41	0.56	-0.52	-1.09	-1.08	1.40	1.01	-0.30	-1.09	1.23	-0.77	-0.72	**-0.65**
2468	1,6,9,11,17,21,28,31,33,37,40,43,47,46,48,52,53,54	-0.51	-0.64	-0.53	0.81	-0.34	0.55	0.32	-0.34	-0.97	-1.08	1.08	0.05	-0.79	-1.09	1.23	-0.77	-0.72	**-3.74**
2469	1,6,9,11,17,21,28,31,33,37,40,43,47,49,53,54	-1.44	-0.38	-1.40	-0.29	0.51	0.55	-0.64	0.18	-0.84	-0.98	-0.03	0.05	-1.16	-1.09	1.23	-0.77	-0.72	**-7.20**
2470	1,6,9,11,17,21,28,31,33,37,40,43,50,54	-1.54	-0.90	-1.42	-0.40	0.44	0.55	-0.40	-0.34	-0.26	-0.93	-0.27	-0.90	-1.20	-1.09	1.23	-0.77	-0.72	**-8.92**
2471	1,6,9,11,17,21,28,31,33,37,42,46,48,51	-0.32	-1.41	-0.22	1.12	-0.92	0.55	0.56	-0.52	-1.09	-1.11	1.36	1.01	-0.38	-1.09	1.23	-0.77	-0.72	**-2.72**
2472	1,6,9,11,17,21,28,31,33,37,42,46,48,52,53,54	-0.64	-1.41	-0.57	0.73	-0.39	-0.30	0.32	-0.34	-0.97	-1.11	1.04	0.05	-0.86	-1.09	1.23	-0.77	-0.72	**-5.81**
2473	1,6,9,11,17,21,28,31,33,37,42,47,50,54	-1.53	-1.15	-1.42	-0.31	0.49	0.55	-0.40	-0.34	-0.26	-0.88	-0.25	-0.90	-1.20	-1.09	1.23	-0.77	-0.72	**-8.95**
2474	1,6,9,11,17,21,28,31,33,37,42,49,53,54	-1.57	-1.41	-1.44	-0.37	0.47	-0.30	-0.64	0.18	-0.84	-1.01	-0.06	0.05	-1.23	-1.09	1.23	-0.77	-0.72	**-9.53**
2475	1,6,9,11,17,21,28,34,35,37,40,41,44,55	-0.96	-1.67	-0.65	-0.57	0.70	0.13	-0.87	-0.52	-0.22	-1.00	0.24	-0.90	-0.68	-1.09	1.23	-0.77	-0.72	**-8.34**
2476	1,6,9,11,17,21,28,34,35,37,40,41,45,55	0.75	-0.64	0.19	0.44	0.20	2.27	0.32	0.06	1.11	-0.19	0.95	-0.90	0.19	-1.09	1.23	-0.77	-0.72	**3.40**
2477	1,6,9,11,17,21,28,34,35,37,40,43,47,46,48,51	-0.21	-0.64	-0.17	1.22	-0.52	1.41	0.32	-0.52	-0.79	-1.12	1.37	1.01	-0.35	-1.09	1.23	-0.77	-0.72	**-0.34**
2478	1,6,9,11,17,21,28,34,35,37,40,43,47,46,48,52,53,54	-0.54	-0.64	-0.53	0.84	0.02	0.55	0.08	-0.34	-0.67	-1.12	1.05	0.05	-0.83	-1.09	1.23	-0.77	-0.72	**-3.43**
2479	1,6,9,11,17,21,28,34,35,37,40,43,47,49,53,54	-1.47	-0.38	-1.40	-0.26	0.87	0.55	-0.87	0.18	-0.54	-1.02	-0.05	0.05	-1.20	-1.09	1.23	-0.77	-0.72	**-6.89**
2480	1,6,9,11,17,21,28,34,35,37,40,43,50,54	-1.56	-0.90	-1.42	-0.38	0.80	0.55	-0.64	-0.34	0.04	-0.98	-0.29	-0.90	-1.25	-1.09	1.23	-0.77	-0.72	**-8.61**
2481	1,6,9,11,17,21,28,34,35,37,42,46,48,51	-0.34	-1.41	-0.21	1.14	-0.57	0.55	0.32	-0.52	-0.79	-1.16	1.33	1.01	-0.42	-1.09	1.23	-0.77	-0.72	**-2.42**
2482	1,6,9,11,17,21,28,34,35,37,42,46,48,52,53,54	-0.67	-1.41	-0.57	0.76	-0.03	-0.30	0.08	-0.34	-0.67	-1.16	1.02	0.05	-0.91	-1.09	1.23	-0.77	-0.72	**-5.50**
2483	1,6,9,11,17,21,28,34,35,37,42,47,50,54	-1.55	-1.15	-1.41	-0.29	0.85	0.55	-0.64	-0.34	0.04	-0.93	-0.27	-0.90	-1.24	-1.09	1.23	-0.77	-0.72	**-8.64**
2484	1,6,9,11,17,21,28,34,35,37,42,49,53,54	-1.60	-1.41	-1.43	-0.34	0.82	-0.30	-0.87	0.18	-0.54	-1.05	-0.09	0.05	-1.28	-1.09	1.23	-0.77	-0.72	**-9.23**
2485	1,6,9,11,17,21,28,34,36,39,41,40,42,46,48,51	0.99	-0.64	0.92	1.40	-1.18	0.55	1.04	-0.37	-0.82	0.82	0.27	1.01	0.62	-1.09	1.23	-0.77	-0.72	**3.24**
2486	1,6,9,11,17,21,28,34,36,39,41,40,42,46,48,52,53,54	0.66	-0.64	0.56	1.01	-0.65	-0.30	0.80	-0.20	-0.70	0.82	-0.05	0.05	0.14	-1.09	1.23	-0.77	-0.72	**0.16**
2487	1,6,9,11,17,21,28,34,36,39,41,40,42,47,50,54	-0.22	-0.38	-0.29	-0.04	0.23	0.55	0.08	-0.20	0.01	1.05	-1.34	-0.90	-0.20	-1.09	1.23	-0.77	-0.72	**-2.98**
2488	1,6,9,11,17,21,28,34,36,39,41,40,42,49,53,54	-0.26	-0.64	-0.31	-0.09	0.21	-0.30	-0.16	0.33	-0.57	0.92	-1.16	0.05	-0.24	-1.09	1.23	-0.77	-0.72	**-3.57**
2489	1,6,9,11,17,21,28,34,36,39,41,43,47,46,48,51	0.99	-0.38	0.92	1.48	-1.14	0.55	1.04	-0.37	-0.82	0.85	0.27	1.01	0.63	-1.09	1.23	-0.77	-0.72	**3.67**
2490	1,6,9,11,17,21,28,34,36,39,41,43,47,46,48,52,53,54	0.67	-0.38	0.56	1.09	-0.60	-0.30	0.80	-0.20	-0.70	0.85	-0.05	0.05	0.14	-1.09	1.23	-0.77	-0.72	**0.58**
2491	1,6,9,11,17,21,28,34,36,39,41,43,47,49,53,54	-0.26	-0.12	-0.30	-0.01	0.25	-0.30	-0.16	0.33	-0.57	0.95	-1.15	0.05	-0.23	-1.09	1.23	-0.77	-0.72	**-2.88**
2492	1,6,9,11,17,21,28,34,36,39,41,43,50,54	-0.36	-0.64	-0.32	-0.13	0.18	-0.30	0.08	-0.20	0.01	1.00	-1.39	-0.90	-0.27	-1.09	1.23	-0.77	-0.72	**-4.60**
2493	1,6,9,11,17,21,28,34,36,39,44,55	-1.30	-1.93	0.03	-0.32	0.08	-0.73	-1.11	-0.37	-0.25	0.97	-1.54	-0.90	-0.34	-1.09	1.23	-0.77	-0.72	**-9.08**
2494	1,6,9,11,17,21,28,34,36,39,45,55	0.40	-0.90	0.87	0.70	-0.41	1.41	0.08	0.20	1.08	1.78	-0.84	-0.90	0.54	-1.09	1.23	-0.77	-0.72	**2.66**
2495	1,6,9,11,17,21,28,34,38,40,42,46,48,51	-0.30	-1.41	-0.21	1.11	0.15	0.98	0.32	-0.15	-0.47	-1.14	1.30	1.01	-0.41	-1.09	1.23	-0.77	1.40	**1.54**
2496	1,6,9,11,17,21,28,34,38,40,42,46,48,52,53,54	-0.63	-1.41	-0.57	0.73	0.69	0.13	0.08	0.03	-0.34	-1.14	0.98	0.05	-0.90	-1.09	1.23	-0.77	1.40	**-1.55**
2497	1,6,9,11,17,21,28,34,38,40,42,47,50,54	-1.51	-1.15	-1.41	-0.32	1.57	0.98	-0.64	0.03	0.36	-0.91	-0.31	-0.90	-1.23	-1.09	1.23	-0.77	1.40	**-4.69**
2498	1,6,9,11,17,21,28,34,38,40,42,49,53,54	-1.56	-1.41	-1.43	-0.37	1.54	0.13	-0.87	0.55	-0.22	-1.04	-0.13	0.05	-1.27	-1.09	1.23	-0.77	1.40	**-5.27**
2499	1,6,9,11,17,21,28,34,38,41,44,55	-1.05	-2.19	-0.68	-0.61	1.41	-0.30	-0.87	-0.15	0.11	-0.99	0.16	-0.90	-0.75	-1.09	1.23	-0.77	1.40	**-6.04**
2500	1,6,9,11,17,21,28,34,38,41,45,55	0.65	-1.15	0.16	0.41	0.92	1.84	0.32	0.43	1.43	-0.18	0.87	-0.90	0.13	-1.09	1.23	-0.77	1.40	**5.70**
2501	1,6,9,11,17,21,28,34,38,43,47,46,48,51	-0.30	-1.67	-0.21	1.19	0.20	0.98	0.32	-0.15	-0.47	-1.11	1.30	1.01	-0.41	-1.09	1.23	-0.77	1.40	**1.45**
2502	1,6,9,11,17,21,28,34,38,43,47,46,48,52,53,54	-0.63	-1.67	-0.57	0.80	0.73	0.13	0.08	0.03	-0.34	-1.11	0.98	0.05	-0.89	-1.09	1.23	-0.77	1.40	**-1.64**
2503	1,6,9,11,17,21,28,34,38,43,47,49,53,54	-1.56	-1.41	-1.43	-0.29	1.58	0.13	-0.87	0.55	-0.22	-1.01	-0.12	0.05	-1.27	-1.09	1.23	-0.77	1.40	**-5.10**
2504	1,6,9,11,17,21,28,34,38,43,50,54	-1.66	-1.93	-1.45	-0.41	1.52	0.13	-0.64	0.03	0.36	-0.96	-0.36	-0.90	-1.31	-1.09	1.23	-0.77	1.40	**-6.82**
2505	2,4,3,6,10,12,14,30,31,34,35,37,40,41,44,55	0.66	-1.67	0.46	0.82	1.31	0.13	0.08	-1.32	-0.92	0.48	0.50	-0.90	0.21	-0.20	-0.16	-0.77	-0.72	**-2.02**
2506	2,4,3,6,10,12,14,30,31,34,35,37,40,41,45,55	2.36	-0.64	1.30	1.84	0.82	2.27	1.28	-0.74	0.40	1.29	1.20	-0.90	1.08	-0.20	-0.16	-0.77	-0.72	**9.71**
2507	2,4,3,6,10,12,14,30,31,34,35,37,40,43,47,46,48,51	1.41	-0.64	0.94	2.62	0.10	1.41	1.28	-1.32	-1.50	0.35	1.63	1.01	0.54	-0.20	-0.16	-0.77	-0.72	**5.97**
2508	2,4,3,6,10,12,14,30,31,34,35,37,40,43,47,46,48,52,53,54	1.08	-0.64	0.58	2.23	0.63	0.55	1.04	-1.14	-1.37	0.35	1.31	0.05	0.06	-0.20	-0.16	-0.77	-0.72	**2.89**
2509	2,4,3,6,10,12,14,30,31,34,35,37,40,43,47,49,53,54	0.15	-0.38	-0.29	1.13	1.48	0.55	0.08	-0.62	-1.25	0.46	0.20	0.05	-0.31	-0.20	-0.16	-0.77	-0.72	**-0.58**
2510	2,4,3,6,10,12,14,30,31,34,35,37,40,43,50,54	0.05	-0.90	-0.30	1.02	1.42	0.55	0.32	-1.14	-0.67	0.50	-0.04	-0.90	-0.36	-0.20	-0.16	-0.77	-0.72	**-2.30**
2511	2,4,3,6,10,12,14,30,31,34,35,37,42,46,48,51	1.27	-1.41	0.90	2.54	0.05	0.55	1.28	-1.32	-1.50	0.32	1.59	1.01	0.47	-0.20	-0.16	-0.77	-0.72	**3.90**
2512	2,4,3,6,10,12,14,30,31,34,35,37,42,46,48,52,53,54	0.95	-1.41	0.55	2.15	0.59	-0.30	1.04	-1.14	-1.37	0.32	1.27	0.05	-0.02	-0.20	-0.16	-0.77	-0.72	**0.81**
2513	2,4,3,6,10,12,14,30,31,34,35,37,42,47,50,54	0.06	-1.15	-0.30	1.11	1.47	0.55	0.32	-1.14	-0.67	0.55	-0.02	-0.90	-0.35	-0.20	-0.16	-0.77	-0.72	**-2.32**
2514	2,4,3,6,10,12,14,30,31,34,35,37,42,49,53,54	0.02	-1.41	-0.32	1.05	1.44	-0.30	0.08	-0.62	-1.25	0.43	0.17	0.05	-0.39	-0.20	-0.16	-0.77	-0.72	**-2.91**
2515	2,4,3,6,10,12,14,30,31,34,36,39,41,40,42,46,48,51	2.61	-0.64	2.03	2.80	-0.57	0.55	1.99	-1.17	-1.53	2.30	0.52	1.01	1.51	-0.20	-0.16	-0.77	-0.72	**9.56**
2516	2,4,3,6,10,12,14,30,31,34,36,39,41,40,42,46,48,52,53,54	2.28	-0.64	1.67	2.41	-0.03	-0.30	1.75	-1.00	-1.40	2.30	0.20	0.05	1.03	-0.20	-0.16	-0.77	-0.72	**6.47**
2517	2,4,3,6,10,12,14,30,31,34,36,39,41,40,42,47,50,54	1.40	-0.38	0.82	1.36	0.85	0.55	1.04	-1.00	-0.70	2.53	-1.08	-0.90	0.69	-0.20	-0.16	-0.77	-0.72	**3.33**
2518	2,4,3,6,10,12,14,30,31,34,36,39,41,40,42,49,53,54	1.35	-0.64	0.81	1.31	0.82	-0.30	0.80	-0.48	-1.28	2.40	-0.90	0.05	0.65	-0.20	-0.16	-0.77	-0.72	**2.75**
2519	2,4,3,6,10,12,14,30,31,34,36,39,41,43,47,46,48,51	2.61	-0.38	2.03	2.88	-0.52	0.55	1.99	-1.17	-1.53	2.33	0.53	1.01	1.51	-0.20	-0.16	-0.77	-0.72	**9.99**
2520	2,4,3,6,10,12,14,30,31,34,36,39,41,43,47,46,48,52,53,54	2.28	-0.38	1.67	2.49	0.01	-0.30	1.75	-1.00	-1.40	2.33	0.21	0.05	1.03	-0.20	-0.16	-0.77	-0.72	**6.90**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
2521	2,4,3,6,10,12,14,30,31,34,36,39,41,43,47,49,53,54	1.36	-0.12	0.81	1.39	0.87	-0.30	0.80	-0.48	-1.28	2.43	-0.89	0.05	0.66	-0.20	-0.16	-0.77	-0.72	**3.44**
2522	2,4,3,6,10,12,14,30,31,34,36,39,41,43,50,54	1.26	-0.64	0.79	1.27	0.80	-0.30	1.04	-1.00	-0.70	2.48	-1.14	-0.90	0.62	-0.20	-0.16	-0.77	-0.72	**1.72**
2523	2,4,3,6,10,12,14,30,31,34,36,39,44,55	0.32	-1.93	1.14	1.08	0.70	-0.73	-0.16	-1.17	-0.95	2.45	-1.29	-0.90	0.55	-0.20	-0.16	-0.77	-0.72	**-2.76**
2524	2,4,3,6,10,12,14,30,31,34,36,39,45,55	2.02	-0.90	1.98	2.10	0.20	1.41	1.04	-0.60	0.37	3.26	-0.58	-0.90	1.43	-0.20	-0.16	-0.77	-0.72	**8.98**
2525	2,4,3,6,10,12,14,30,31,34,38,40,42,46,48,51	1.31	-1.41	0.90	2.51	0.77	0.98	1.28	-0.95	-1.17	0.33	1.55	1.01	0.48	-0.20	-0.16	-0.77	1.40	**7.85**
2526	2,4,3,6,10,12,14,30,31,34,38,40,42,46,48,52,53,54	0.99	-1.41	0.54	2.12	1.31	0.13	1.04	-0.77	-1.05	0.33	1.23	0.05	-0.01	-0.20	-0.16	-0.77	1.40	**4.77**
2527	2,4,3,6,10,12,14,30,31,34,38,40,42,47,50,54	0.10	-1.15	-0.30	1.08	2.19	0.98	0.32	-0.77	-0.34	0.57	-0.06	-0.90	-0.34	-0.20	-0.16	-0.77	1.40	**1.63**
2528	2,4,3,6,10,12,14,30,31,34,38,40,42,49,53,54	0.06	-1.41	-0.32	1.02	2.16	0.13	0.08	-0.25	-0.92	0.44	0.13	0.05	-0.38	-0.20	-0.16	-0.77	1.40	**1.04**
2529	2,4,3,6,10,12,14,30,31,34,38,41,44,55	0.57	-2.19	0.43	0.79	2.03	-0.30	0.08	-0.95	-0.60	0.49	0.42	-0.90	0.14	-0.20	-0.16	-0.77	1.40	**0.28**
2530	2,4,3,6,10,12,14,30,31,34,38,41,45,55	2.27	-1.15	1.27	1.81	1.54	1.84	1.28	-0.37	0.73	1.30	1.13	-0.90	1.02	-0.20	-0.16	-0.77	1.40	**12.02**
2531	2,4,3,6,10,12,14,30,31,34,38,43,47,46,48,51	1.32	-1.67	0.90	2.59	0.81	0.98	1.28	-0.95	-1.17	0.37	1.56	1.01	0.48	-0.20	-0.16	-0.77	1.40	**7.76**
2532	2,4,3,6,10,12,14,30,31,34,38,43,47,46,48,52,53,54	0.99	-1.67	0.55	2.20	1.35	0.13	1.04	-0.77	-1.05	0.37	1.24	0.05	0.00	-0.20	-0.16	-0.77	1.40	**4.68**
2533	2,4,3,6,10,12,14,30,31,34,38,43,47,49,53,54	0.06	-1.41	-0.32	1.10	2.20	0.13	0.08	-0.25	-0.92	0.47	0.13	0.05	-0.38	-0.20	-0.16	-0.77	1.40	**1.21**
2534	2,4,3,6,10,12,14,30,31,34,38,43,50,54	-0.04	-1.93	-0.34	0.99	2.14	0.13	0.32	-0.77	-0.34	0.51	-0.11	-0.90	-0.42	-0.20	-0.16	-0.77	1.40	**-0.51**
2535	2,4,3,6,10,12,14,30,33,37,40,41,44,55	0.60	-2.19	0.43	0.80	0.96	0.13	0.32	-1.32	-1.22	0.50	0.44	-0.90	0.19	-0.20	-0.16	-0.77	-0.72	**-3.14**
2536	2,4,3,6,10,12,14,30,33,37,40,41,45,55	2.30	-1.15	1.27	1.82	0.46	2.27	1.52	-0.74	0.10	1.31	1.15	-0.90	1.06	-0.20	-0.16	-0.77	-0.72	**8.60**
2537	2,4,3,6,10,12,14,30,33,37,40,43,47,46,48,51	1.34	-1.15	0.91	2.60	-0.26	1.41	1.52	-1.32	-1.80	0.37	1.57	1.01	0.52	-0.20	-0.16	-0.77	-0.72	**4.86**
2538	2,4,3,6,10,12,14,30,33,37,40,43,47,46,48,52,53,54	1.02	-1.15	0.55	2.21	0.27	0.55	1.28	-1.14	-1.67	0.37	1.25	0.05	0.04	-0.20	-0.16	-0.77	-0.72	**1.77**
2539	2,4,3,6,10,12,14,30,33,37,40,43,47,49,53,54	0.09	-0.90	-0.32	1.11	1.13	0.55	0.32	-0.62	-1.55	0.48	0.15	0.05	-0.33	-0.20	-0.16	-0.77	-0.72	**-1.69**
2540	2,4,3,6,10,12,14,30,33,37,40,43,50,54	-0.01	-1.41	-0.34	0.99	1.06	0.55	0.56	-1.14	-0.97	0.52	-0.09	-0.90	-0.38	-0.20	-0.16	-0.77	-0.72	**-3.41**
2541	2,4,3,6,10,12,14,30,33,37,42,46,48,51	1.21	-1.93	0.87	2.52	-0.31	0.55	1.52	-1.32	-1.80	0.34	1.54	1.01	0.45	-0.20	-0.16	-0.77	-0.72	**2.78**
2542	2,4,3,6,10,12,14,30,33,37,42,46,48,52,53,54	0.88	-1.93	0.51	2.13	0.23	-0.30	1.28	-1.14	-1.67	0.34	1.22	0.05	-0.04	-0.20	-0.16	-0.77	-0.72	**-0.30**
2543	2,4,3,6,10,12,14,30,33,37,42,47,50,54	0.00	-1.67	-0.33	1.08	1.11	0.55	0.56	-1.14	-0.97	0.57	-0.07	-0.90	-0.37	-0.20	-0.16	-0.77	-0.72	**-3.44**
2544	2,4,3,6,10,12,14,30,33,37,42,49,53,54	-0.04	-1.93	-0.35	1.03	1.08	-0.30	0.32	-0.62	-1.55	0.44	0.11	0.05	-0.41	-0.20	-0.16	-0.77	-0.72	**-4.03**
2545	2,4,3,6,10,12,14,32,46,47,50,54	1.62	-0.90	1.12	0.81	1.05	1.41	2.23	-1.73	0.68	1.10	0.38	-0.90	1.14	0.33	-0.16	-0.77	0.98	**8.38**
2546	2,4,3,6,10,12,14,32,46,49,53,54	1.57	-1.15	1.10	0.75	1.02	0.55	1.99	-1.21	0.10	0.97	0.54	0.05	1.11	0.33	-0.16	-0.77	0.98	**7.77**
2547	2,4,3,6,10,12,14,32,48,51	1.07	-1.67	1.85	0.16	-0.93	1.41	2.71	-1.91	-0.15	0.86	0.04	-0.90	1.62	0.33	-0.16	-0.77	0.98	**4.52**
2548	2,4,3,6,10,12,14,32,48,52,53,54	0.75	-1.67	1.49	-0.23	-0.40	0.55	2.47	-1.73	-0.02	0.86	-0.28	-1.85	1.13	0.33	-0.16	-0.77	0.98	**1.44**
2549	2,4,3,6,10,13,17,18,20,23,26,30,32,46,47,50,54	1.07	1.70	0.12	-0.51	0.25	0.98	1.04	-1.58	2.00	-0.11	0.87	-0.90	0.67	0.19	-0.16	1.14	0.98	**7.76**
2550	2,4,3,6,10,13,17,18,20,23,26,30,32,46,49,53,54	1.03	1.44	0.10	-0.56	0.22	0.13	0.80	-1.06	1.42	-0.23	1.04	0.05	0.63	0.19	-0.16	1.14	0.98	**7.15**
2551	2,4,3,6,10,13,17,18,20,23,26,30,32,48,51	0.53	0.92	0.85	-1.15	-1.73	0.98	1.52	-1.76	1.17	-0.34	0.53	-0.90	1.14	0.19	-0.16	1.14	0.98	**3.91**
2552	2,4,3,6,10,13,17,18,20,23,26,30,32,48,52,53,54	0.20	0.92	0.50	-1.54	-1.20	0.13	1.28	-1.58	1.30	-0.34	0.21	-1.85	0.66	0.19	-0.16	1.14	0.98	**0.82**
2553	2,4,3,6,10,13,17,18,20,23,26,31,34,35,37,40,41,44,55	-0.75	0.40	-0.77	-0.49	0.52	-1.16	-1.59	-1.16	0.40	-0.72	0.07	-0.90	-0.87	-0.53	-0.16	1.14	-0.72	**-7.31**
2554	2,4,3,6,10,13,17,18,20,23,26,31,34,35,37,40,41,45,55	0.95	1.44	0.07	0.53	0.02	0.98	-0.40	-0.59	1.72	0.09	0.78	-0.90	0.01	-0.53	-0.16	1.14	-0.72	**4.43**
2555	2,4,3,6,10,13,17,18,20,23,26,31,34,35,37,40,43,47,46,48,51	-0.01	1.44	-0.29	1.30	-0.70	0.13	-0.40	-1.16	-0.18	-0.85	1.20	1.01	-0.53	-0.53	-0.16	1.14	-0.72	**0.69**
2556	2,4,3,6,10,13,17,18,20,23,26,31,34,35,37,40,43,47,46,48,52,53,54	-0.33	1.44	-0.65	0.92	-0.17	-0.73	-0.64	-0.99	-0.05	-0.85	0.88	0.05	-1.01	-0.53	-0.16	1.14	-0.72	**-2.40**
2557	2,4,3,6,10,13,17,18,20,23,26,31,34,35,37,40,43,47,49,53,54	-1.26	1.70	-1.52	-0.18	0.69	-0.73	-1.59	-0.47	0.07	-0.74	-0.22	0.05	-1.39	-0.53	-0.16	1.14	-0.72	**-5.86**
2558	2,4,3,6,10,13,17,18,20,23,26,31,34,35,37,40,43,50,54	-1.36	1.18	-1.54	-0.30	0.62	-0.73	-1.35	-0.99	0.65	-0.70	-0.46	-0.90	-1.43	-0.53	-0.16	1.14	-0.72	**-7.58**
2559	2,4,3,6,10,13,17,18,20,23,26,31,34,35,37,42,46,48,51	-0.14	0.66	-0.33	1.22	-0.75	-0.73	-0.40	-1.16	-0.18	-0.88	1.17	1.01	-0.60	-0.53	-0.16	1.14	-0.72	**-1.39**
2560	2,4,3,6,10,13,17,18,20,23,26,31,34,35,37,42,46,48,52,53,54	-0.47	0.66	-0.69	0.84	-0.21	-1.59	-0.64	-0.99	-0.05	-0.88	0.85	0.05	-1.09	-0.53	-0.16	1.14	-0.72	**-4.47**
2561	2,4,3,6,10,13,17,18,20,23,26,31,34,35,37,42,47,50,54	-1.35	0.92	-1.53	-0.21	0.67	-0.73	-1.35	-0.99	0.65	-0.65	-0.44	-0.90	-1.42	-0.53	-0.16	1.14	-0.72	**-7.61**
2562	2,4,3,6,10,13,17,18,20,23,26,31,34,35,37,42,49,53,54	-1.39	0.66	-1.55	-0.26	0.64	-1.59	-1.59	-0.47	0.07	-0.78	-0.26	0.05	-1.46	-0.53	-0.16	1.14	-0.72	**-8.20**
2563	2,4,3,6,10,13,17,18,20,23,26,31,34,36,39,41,40,42,46,48,51	1.19	1.44	0.80	1.48	-1.36	-0.73	0.32	-1.02	-0.21	1.09	0.10	1.01	0.44	-0.53	-0.16	1.14	-0.72	**4.27**
2564	2,4,3,6,10,13,17,18,20,23,26,31,34,36,39,41,40,42,46,48,52,53,54	0.87	1.44	0.44	1.09	-0.83	-1.59	0.08	-0.84	-0.08	1.09	-0.22	0.05	-0.05	-0.53	-0.16	1.14	-0.72	**1.19**
2565	2,4,3,6,10,13,17,18,20,23,26,31,34,36,39,41,40,42,47,50,54	-0.02	1.70	-0.41	0.05	0.05	-0.73	-0.64	-0.84	0.62	1.33	-1.51	-0.90	-0.38	-0.53	-0.16	1.14	-0.72	**-1.95**
2566	2,4,3,6,10,13,17,18,20,23,26,31,34,36,39,41,40,42,49,53,54	-0.06	1.44	-0.43	-0.01	0.02	-1.59	-0.87	-0.32	0.04	1.20	-1.32	0.05	-0.42	-0.53	-0.16	1.14	-0.72	**-2.54**
2567	2,4,3,6,10,13,17,18,20,23,26,31,34,36,39,41,43,47,46,48,51	1.19	1.70	0.80	1.56	-1.32	-0.73	0.32	-1.02	-0.21	1.13	0.10	1.01	0.44	-0.53	-0.16	1.14	-0.72	**4.70**
2568	2,4,3,6,10,13,17,18,20,23,26,31,34,36,39,41,43,47,46,48,52,53,54	0.87	1.70	0.44	1.17	-0.78	-1.59	0.08	-0.84	-0.08	1.13	-0.21	0.05	-0.04	-0.53	-0.16	1.14	-0.72	**1.61**
2569	2,4,3,6,10,13,17,18,20,23,26,31,34,36,39,41,43,47,49,53,54	-0.06	1.96	-0.43	0.07	0.07	-1.59	-0.87	-0.32	0.04	1.23	-1.32	0.05	-0.41	-0.53	-0.16	1.14	-0.72	**-1.85**
2570	2,4,3,6,10,13,17,18,20,23,26,31,34,36,39,41,43,50,54	-0.16	1.44	-0.44	-0.04	0.00	-1.59	-0.64	-0.84	0.62	1.27	-1.56	-0.90	-0.46	-0.53	-0.16	1.14	-0.72	**-3.57**
2571	2,4,3,6,10,13,17,18,20,23,26,31,34,36,39,44,55	-1.09	0.14	-0.09	-0.24	-0.10	-2.02	-1.83	-1.02	0.37	1.25	-1.71	-0.90	-0.52	-0.53	-0.16	1.14	-0.72	**-8.05**
2572	2,4,3,6,10,13,17,18,20,23,26,31,34,36,39,45,55	0.61	1.18	0.75	0.78	-0.59	0.13	-0.64	-0.45	1.69	2.06	-1.01	-0.90	0.36	-0.53	-0.16	1.14	-0.72	**3.69**
2573	2,4,3,6,10,13,17,18,20,23,26,31,34,38,40,42,46,48,51	-0.10	0.66	-0.33	1.19	-0.03	-0.30	-0.40	-0.80	0.15	-0.87	1.13	1.01	-0.60	-0.53	-0.16	1.14	1.40	**2.57**
2574	2,4,3,6,10,13,17,18,20,23,26,31,34,38,40,42,46,48,52,53,54	-0.43	0.66	-0.69	0.81	0.51	-1.16	-0.64	-0.62	0.27	-0.87	0.81	0.05	-1.08	-0.53	-0.16	1.14	1.40	**-0.52**
2575	2,4,3,6,10,13,17,18,20,23,26,31,34,38,40,42,47,50,54	-1.31	0.92	-1.54	-0.24	1.39	-0.30	-1.35	-0.62	0.98	-0.64	-0.48	-0.90	-1.42	-0.53	-0.16	1.14	1.40	**-3.66**
2576	2,4,3,6,10,13,17,18,20,23,26,31,34,38,40,42,49,53,54	-1.36	0.66	-1.56	-0.29	1.36	-1.16	-1.59	-0.10	0.39	-0.76	-0.30	0.05	-1.45	-0.53	-0.16	1.14	1.40	**-4.24**
2577	2,4,3,6,10,13,17,18,20,23,26,31,34,38,41,44,55	-0.84	-0.12	-0.81	-0.52	1.23	-1.59	-1.59	-0.80	0.72	-0.71	-0.01	-0.90	-0.93	-0.53	-0.16	1.14	1.40	**-5.01**
2578	2,4,3,6,10,13,17,18,20,23,26,31,34,38,41,45,55	0.86	0.92	0.03	0.50	0.74	0.55	-0.40	-0.22	2.04	0.10	0.70	-0.90	-0.05	-0.53	-0.16	1.14	1.40	**6.73**
2579	2,4,3,6,10,13,17,18,20,23,26,31,34,38,43,47,46,48,51	-0.10	0.40	-0.33	1.27	0.02	-0.30	-0.40	-0.80	0.15	-0.83	1.13	1.01	-0.59	-0.53	-0.16	1.14	1.40	**2.48**
2580	2,4,3,6,10,13,17,18,20,23,26,31,34,38,43,47,46,48,52,53,54	-0.43	0.40	-0.69	0.89	0.55	-1.16	-0.64	-0.62	0.27	-0.83	0.81	0.05	-1.08	-0.53	-0.16	1.14	1.40	**-0.61**
2581	2,4,3,6,10,13,17,18,20,23,26,31,34,38,43,47,49,53,54	-1.35	0.66	-1.55	-0.21	1.40	-1.16	-1.59	-0.10	0.39	-0.73	-0.29	0.05	-1.45	-0.53	-0.16	1.14	1.40	**-4.07**
2582	2,4,3,6,10,13,17,18,20,23,26,31,34,38,43,50,54	-1.45	0.14	-1.57	-0.33	1.34	-1.16	-1.35	-0.62	0.98	-0.69	-0.53	-0.90	-1.49	-0.53	-0.16	1.14	1.40	**-5.79**
2583	2,4,3,6,10,13,17,18,20,23,26,33,37,40,41,44,55	-0.82	-0.64	-0.80	-0.51	0.16	-1.16	-1.35	-1.16	0.10	-0.71	0.02	-0.90	-0.89	-0.53	-0.16	1.14	-0.72	**-8.94**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
2584	2,4,3,6,10,13,17,18,20,23,26,33,37,40,41,45,55	0.88	0.40	0.04	0.50	-0.33	0.98	-0.16	-0.59	1.42	0.10	0.73	-0.90	-0.01	-0.53	-0.16	1.14	-0.72	**2.79**
2585	2,4,3,6,10,13,17,18,20,23,26,33,37,40,43,47,46,48,51	-0.07	0.40	-0.33	1.28	-1.06	0.13	-0.16	-1.16	-0.48	-0.83	1.15	1.01	-0.55	-0.53	-0.16	1.14	-0.72	**-0.95**
2586	2,4,3,6,10,13,17,18,20,23,26,33,37,40,43,47,46,48,52,53,54	-0.40	0.40	-0.68	0.90	-0.52	-0.73	-0.40	-0.99	-0.36	-0.83	0.83	0.05	-1.03	-0.53	-0.16	1.14	-0.72	**-4.03**
2587	2,4,3,6,10,13,17,18,20,23,26,33,37,40,43,47,49,53,54	-1.33	0.66	-1.55	-0.20	0.33	-0.73	-1.35	-0.47	-0.23	-0.73	-0.27	0.05	-1.41	-0.53	-0.16	1.14	-0.72	**-7.50**
2588	2,4,3,6,10,13,17,18,20,23,26,33,37,40,43,50,54	-1.43	0.14	-1.57	-0.32	0.26	-0.73	-1.11	-0.99	0.35	-0.68	-0.51	-0.90	-1.45	-0.53	-0.16	1.14	-0.72	**-9.22**
2589	2,4,3,6,10,13,17,18,20,23,26,33,37,42,46,48,51	-0.21	-0.38	-0.36	1.20	-1.10	-0.73	-0.16	-1.16	-0.48	-0.86	1.11	1.01	-0.62	-0.53	-0.16	1.14	-0.72	**-3.02**
2590	2,4,3,6,10,13,17,18,20,23,26,33,37,42,46,48,52,53,54	-0.53	-0.38	-0.72	0.82	-0.57	-1.59	-0.40	-0.99	-0.36	-0.86	0.79	0.05	-1.11	-0.53	-0.16	1.14	-0.72	**-6.11**
2591	2,4,3,6,10,13,17,18,20,23,26,33,37,42,47,50,54	-1.42	-0.12	-1.57	-0.23	0.31	-0.73	-1.11	-0.99	0.35	-0.63	-0.49	-0.90	-1.44	-0.53	-0.16	1.14	-0.72	**-9.24**
2592	2,4,3,6,10,13,17,18,20,23,26,33,37,42,49,53,54	-1.46	-0.38	-1.59	-0.28	0.28	-1.59	-1.35	-0.47	-0.23	-0.76	-0.31	0.05	-1.48	-0.53	-0.16	1.14	-0.72	**-9.83**
2593	2,4,3,6,10,13,17,18,20,23,27,28,31,30,32,46,47,50,54	1.11	1.70	0.08	-0.48	0.46	0.98	1.04	-1.58	1.65	0.26	0.62	-0.90	0.63	0.19	-0.16	-0.77	0.98	**5.80**
2594	2,4,3,6,10,13,17,18,20,23,27,28,31,30,32,46,49,53,54	1.06	1.44	0.06	-0.53	0.43	0.13	0.80	-1.06	1.07	0.14	0.78	0.05	0.60	0.19	-0.16	-0.77	0.98	**5.20**
2595	2,4,3,6,10,13,17,18,20,23,27,28,31,30,32,48,51	0.56	0.92	0.81	-1.13	-1.53	0.98	1.52	-1.76	0.82	0.03	0.27	-0.90	1.11	0.19	-0.16	-0.77	0.98	**1.95**
2596	2,4,3,6,10,13,17,18,20,23,27,28,31,30,32,48,52,53,54	0.24	0.92	0.46	-1.51	-0.99	0.13	1.28	-1.58	0.94	0.03	-0.05	-1.85	0.62	0.19	-0.16	-0.77	0.98	**-1.14**
2597	2,4,3,6,10,13,17,18,20,23,27,28,31,33,37,40,41,44,55	-0.78	-0.12	-0.84	-0.49	0.36	-1.16	-1.35	-1.16	-0.26	-0.34	-0.24	-0.90	-0.92	-0.53	-0.16	-0.77	-0.72	**-10.38**
2598	2,4,3,6,10,13,17,18,20,23,27,28,31,33,37,40,41,45,55	0.92	0.92	0.00	0.53	-0.13	0.98	-0.16	-0.59	1.07	0.47	0.47	-0.90	-0.04	-0.53	-0.16	-0.77	-0.72	**1.35**
2599	2,4,3,6,10,13,17,18,20,23,27,28,31,33,37,40,43,47,46,48,51	-0.04	0.92	-0.37	1.31	-0.85	0.13	-0.16	-1.16	-0.83	-0.46	0.89	1.01	-0.58	-0.53	-0.16	-0.77	-0.72	**-2.39**
2600	2,4,3,6,10,13,17,18,20,23,27,28,31,33,37,40,43,47,46,48,52,53,54	-0.36	0.92	-0.72	0.92	-0.32	-0.73	-0.40	-0.99	-0.71	-0.46	0.57	0.05	-1.07	-0.53	-0.16	-0.77	-0.72	**-5.47**
2601	2,4,3,6,10,13,17,18,20,23,27,28,31,33,37,40,43,47,49,53,54	-1.29	1.18	-1.59	-0.18	0.53	-0.73	-1.35	-0.47	-0.58	-0.36	-0.53	0.05	-1.44	-0.53	-0.16	-0.77	-0.72	**-8.94**
2602	2,4,3,6,10,13,17,18,20,23,27,28,31,33,37,40,43,50,54	-1.39	0.66	-1.61	-0.30	0.47	-0.73	-1.11	-0.99	0.00	-0.31	-0.77	-0.90	-1.48	-0.53	-0.16	-0.77	-0.72	**-10.66**
2603	2,4,3,6,10,13,17,18,20,23,27,28,31,33,37,42,46,48,51	-0.17	0.14	-0.40	1.23	-0.90	-0.73	-0.16	-1.16	-0.83	-0.49	0.86	1.01	-0.66	-0.53	-0.16	-0.77	-0.72	**-4.46**
2604	2,4,3,6,10,13,17,18,20,23,27,28,31,33,37,42,46,48,52,53,54	-0.50	0.14	-0.76	0.84	-0.36	-1.59	-0.40	-0.99	-0.71	-0.49	0.54	0.05	-1.14	-0.53	-0.16	-0.77	-0.72	**-7.54**
2605	2,4,3,6,10,13,17,18,20,23,27,28,31,33,37,42,47,50,54	-1.38	0.40	-1.61	-0.20	0.52	-0.73	-1.11	-0.99	0.00	-0.26	-0.75	-0.90	-1.48	-0.53	-0.16	-0.77	-0.72	**-10.68**
2606	2,4,3,6,10,13,17,18,20,23,27,28,31,33,37,42,49,53,54	-1.42	0.14	-1.63	-0.26	0.49	-1.59	-1.35	-0.47	-0.58	-0.39	-0.57	0.05	-1.51	-0.53	-0.16	-0.77	-0.72	**-11.27**
2607	2,4,3,6,10,13,17,18,20,23,27,28,34,35,37,40,41,44,55	-0.81	-0.12	-0.83	-0.47	0.72	-1.16	-1.59	-1.16	0.04	-0.38	-0.26	-0.90	-0.96	-0.53	-0.16	-0.77	-0.72	**-10.08**
2608	2,4,3,6,10,13,17,18,20,23,27,28,34,35,37,40,41,45,55	0.89	0.92	0.01	0.55	0.23	0.98	-0.40	-0.59	1.37	0.43	0.44	-0.90	-0.09	-0.53	-0.16	-0.77	-0.72	**1.66**
2609	2,4,3,6,10,13,17,18,20,23,27,28,34,35,37,40,43,47,46,48,51	-0.07	0.92	-0.36	1.33	-0.50	0.13	-0.40	-1.16	-0.53	-0.50	0.87	1.01	-0.63	-0.53	-0.16	-0.77	-0.72	**-2.08**
2610	2,4,3,6,10,13,17,18,20,23,27,28,34,35,37,40,43,47,46,48,52,53,54	-0.39	0.92	-0.72	0.94	0.04	-0.73	-0.64	-0.99	-0.41	-0.50	0.55	0.05	-1.11	-0.53	-0.16	-0.77	-0.72	**-5.16**
2611	2,4,3,6,10,13,17,18,20,23,27,28,34,35,37,40,43,47,49,53,54	-1.32	1.18	-1.58	-0.16	0.89	-0.73	-1.59	-0.47	-0.28	-0.40	-0.56	0.05	-1.48	-0.53	-0.16	-0.77	-0.72	**-8.63**
2612	2,4,3,6,10,13,17,18,20,23,27,28,34,35,37,40,43,50,54	-1.42	0.66	-1.60	-0.27	0.83	-0.73	-1.35	-0.99	0.30	-0.35	-0.80	-0.90	-1.53	-0.53	-0.16	-0.77	-0.72	**-10.35**
2613	2,4,3,6,10,13,17,18,20,23,27,28,34,35,37,42,46,48,51	-0.20	0.14	-0.40	1.25	-0.54	-0.73	-0.40	-1.16	-0.53	-0.53	0.83	1.01	-0.70	-0.53	-0.16	-0.77	-0.72	**-4.15**
2614	2,4,3,6,10,13,17,18,20,23,27,28,34,35,37,42,46,48,52,53,54	-0.53	0.14	-0.75	0.87	0.00	-1.59	-0.64	-0.99	-0.41	-0.53	0.51	0.05	-1.19	-0.53	-0.16	-0.77	-0.72	**-7.24**
2615	2,4,3,6,10,13,17,18,20,23,27,28,34,35,37,42,47,50,54	-1.41	0.40	-1.60	-0.18	0.88	-0.73	-1.35	-0.99	0.30	-0.30	-0.78	-0.90	-1.52	-0.53	-0.16	-0.77	-0.72	**-10.38**
2616	2,4,3,6,10,13,17,18,20,23,27,28,34,35,37,42,49,53,54	-1.45	0.14	-1.62	-0.23	0.85	-1.59	-1.59	-0.47	-0.28	-0.43	-0.59	0.05	-1.56	-0.53	-0.16	-0.77	-0.72	**-10.96**
2617	2,4,3,6,10,13,17,18,20,23,27,28,34,36,39,41,40,42,46,48,51	1.13	0.92	0.73	1.51	-1.16	-0.73	0.32	-1.02	-0.56	1.44	-0.24	1.01	0.34	-0.53	-0.16	-0.77	-0.72	**1.51**
2618	2,4,3,6,10,13,17,18,20,23,27,28,34,36,39,41,40,42,46,48,52,53,54	0.81	0.92	0.37	1.12	-0.62	-1.59	0.08	-0.84	-0.44	1.44	-0.56	0.05	-0.14	-0.53	-0.16	-0.77	-0.72	**-1.58**
2619	2,4,3,6,10,13,17,18,20,23,27,28,34,36,39,41,40,42,47,50,54	-0.08	1.18	-0.47	0.07	0.26	-0.73	-0.64	-0.84	0.27	1.67	-1.84	-0.90	-0.48	-0.53	-0.16	-0.77	-0.72	**-4.72**
2620	2,4,3,6,10,13,17,18,20,23,27,28,34,36,39,41,40,42,49,53,54	-0.12	0.92	-0.49	0.02	0.23	-1.59	-0.87	-0.32	-0.31	1.54	-1.66	0.05	-0.52	-0.53	-0.16	-0.77	-0.72	**-5.30**
2621	2,4,3,6,10,13,17,18,20,23,27,28,34,36,39,41,43,47,46,48,51	1.14	1.18	0.73	1.59	-1.11	-0.73	0.32	-1.02	-0.56	1.47	-0.23	1.01	0.35	-0.53	-0.16	-0.77	-0.72	**1.93**
2622	2,4,3,6,10,13,17,18,20,23,27,28,34,36,39,41,43,47,46,48,52,53,54	0.81	1.18	0.38	1.20	-0.58	-1.59	0.08	-0.84	-0.44	1.47	-0.55	0.05	-0.14	-0.53	-0.16	-0.77	-0.72	**-1.15**
2623	2,4,3,6,10,13,17,18,20,23,27,28,34,36,39,41,43,47,49,53,54	-0.12	1.44	-0.49	0.10	0.27	-1.59	-0.87	-0.32	-0.31	1.58	-1.65	0.05	-0.51	-0.53	-0.16	-0.77	-0.72	**-4.62**
2624	2,4,3,6,10,13,17,18,20,23,27,28,34,36,39,41,43,50,54	-0.22	0.92	-0.51	-0.02	0.21	-1.59	-0.64	-0.84	0.27	1.62	-1.90	-0.90	-0.55	-0.53	-0.16	-0.77	-0.72	**-6.34**
2625	2,4,3,6,10,13,17,18,20,23,27,28,34,36,39,44,55	-1.15	-0.38	-0.16	-0.21	0.10	-2.02	-1.83	-1.02	0.01	1.59	-2.05	-0.90	-0.62	-0.53	-0.16	-0.77	-0.72	**-10.81**
2626	2,4,3,6,10,13,17,18,20,23,27,28,34,36,39,45,55	0.55	0.66	0.68	0.81	-0.39	0.13	-0.64	-0.45	1.34	2.40	-1.34	-0.90	0.26	-0.53	-0.16	-0.77	-0.72	**0.93**
2627	2,4,3,6,10,13,17,18,20,23,27,28,34,38,40,42,46,48,51	-0.16	0.14	-0.40	1.22	0.18	-0.30	-0.40	-0.80	-0.21	-0.52	0.79	1.01	-0.69	-0.53	-0.16	-0.77	1.40	**-0.20**
2628	2,4,3,6,10,13,17,18,20,23,27,28,34,38,40,42,46,48,52,53,54	-0.49	0.14	-0.75	0.83	0.71	-1.16	-0.64	-0.62	-0.08	-0.52	0.47	0.05	-1.18	-0.53	-0.16	-0.77	1.40	**-3.28**
2629	2,4,3,6,10,13,17,18,20,23,27,28,34,38,40,42,47,50,54	-1.37	0.40	-1.60	-0.21	1.59	-0.30	-1.35	-0.62	0.62	-0.29	-0.82	-0.90	-1.51	-0.53	-0.16	-0.77	1.40	**-6.42**
2630	2,4,3,6,10,13,17,18,20,23,27,28,34,38,40,42,49,53,54	-1.41	0.14	-1.62	-0.27	1.57	-1.16	-1.59	-0.10	0.04	-0.42	-0.63	0.05	-1.55	-0.53	-0.16	-0.77	1.40	**-7.01**
2631	2,4,3,6,10,13,17,18,20,23,27,28,34,38,41,44,55	-0.90	-0.64	-0.87	-0.50	1.44	-1.59	-1.59	-0.80	0.37	-0.37	-0.34	-0.90	-1.03	-0.53	-0.16	-0.77	1.40	**-7.77**
2632	2,4,3,6,10,13,17,18,20,23,27,28,34,38,41,45,55	0.80	0.40	-0.03	0.52	0.95	0.55	-0.40	-0.22	1.69	0.44	0.36	-0.90	-0.15	-0.53	-0.16	-0.77	1.40	**3.97**
2633	2,4,3,6,10,13,17,18,20,23,27,28,34,38,43,47,46,48,51	-0.16	-0.12	-0.40	1.30	0.22	-0.30	-0.40	-0.80	-0.21	-0.49	0.80	1.01	-0.69	-0.53	-0.16	-0.77	1.40	**-0.29**
2634	2,4,3,6,10,13,17,18,20,23,27,28,34,38,43,47,46,48,52,53,54	-0.48	-0.12	-0.75	0.91	0.76	-1.16	-0.64	-0.62	-0.08	-0.49	0.48	0.05	-1.17	-0.53	-0.16	-0.77	1.40	**-3.37**
2635	2,4,3,6,10,13,17,18,20,23,27,28,34,38,43,47,49,53,54	-1.41	0.14	-1.62	-0.19	1.61	-1.16	-1.59	-0.10	0.04	-0.39	-0.63	0.05	-1.55	-0.53	-0.16	-0.77	1.40	**-6.84**
2636	2,4,3,6,10,13,17,18,20,23,27,28,34,38,43,50,54	-1.51	-0.38	-1.64	-0.30	1.54	-1.16	-1.35	-0.62	0.62	-0.34	-0.87	-0.90	-1.59	-0.53	-0.16	-0.77	1.40	**-8.56**
2637	2,4,3,6,10,13,17,19,22,24,29,36,35,37,40,41,44,55	0.75	0.66	0.51	-0.98	-0.38	-0.30	-0.40	-2.21	-0.18	-0.50	0.46	-0.90	0.96	1.55	-0.16	-0.77	-0.72	**-2.62**
2638	2,4,3,6,10,13,17,19,22,24,29,36,35,37,40,41,45,55	2.45	1.70	1.35	0.04	-0.87	1.84	0.80	-1.64	1.15	0.31	1.17	-0.90	1.83	1.55	-0.16	-0.77	-0.72	**9.12**
2639	2,4,3,6,10,13,17,19,22,24,29,36,35,37,40,43,47,46,48,51	1.50	1.70	0.98	0.81	-1.59	0.98	0.80	-2.21	-0.75	-0.62	1.60	1.01	1.29	1.55	-0.16	-0.77	-0.72	**5.38**
2640	2,4,3,6,10,13,17,19,22,24,29,36,35,37,40,43,47,46,48,52,53,54	1.17	1.70	0.62	0.43	-1.06	0.13	0.56	-2.04	-0.63	-0.62	1.28	0.05	0.81	1.55	-0.16	-0.77	-0.72	**2.29**
2641	2,4,3,6,10,13,17,19,22,24,29,36,35,37,40,43,47,49,53,54	0.24	1.96	-0.24	-0.67	-0.20	0.13	-0.40	-1.51	-0.50	-0.52	0.17	0.05	0.44	1.55	-0.16	-0.77	-0.72	**-1.17**
2642	2,4,3,6,10,13,17,19,22,24,29,36,35,37,40,43,50,54	0.14	1.44	-0.26	-0.79	-0.27	0.13	-0.16	-2.04	0.08	-0.48	-0.07	-0.90	0.39	1.55	-0.16	-0.77	-0.72	**-2.89**
2643	2,4,3,6,10,13,17,19,22,24,29,36,35,37,42,46,48,51	1.36	0.92	0.94	0.73	-1.64	0.13	0.80	-2.21	-0.75	-0.66	1.56	1.01	1.22	1.55	-0.16	-0.77	-0.72	**3.31**
2644	2,4,3,6,10,13,17,19,22,24,29,36,35,37,42,46,48,52,53,54	1.04	0.92	0.59	0.35	-1.10	-0.73	0.56	-2.04	-0.63	-0.66	1.24	0.05	0.73	1.55	-0.16	-0.77	-0.72	**0.22**
2645	2,4,3,6,10,13,17,19,22,24,29,36,35,37,42,47,50,54	0.15	1.18	-0.26	-0.70	-0.22	0.13	-0.16	-2.04	0.08	-0.43	-0.05	-0.90	0.40	1.55	-0.16	-0.77	-0.72	**-2.92**
2646	2,4,3,6,10,13,17,19,22,24,29,36,35,37,42,49,53,54	0.11	0.92	-0.28	-0.75	-0.25	-0.73	-0.40	-1.51	-0.50	-0.55	0.14	0.05	0.36	1.55	-0.16	-0.77	-0.72	**-3.50**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
2647	2,4,3,6,10,13,17,19,22,24,29,36,38,40,42,46,48,51	1.40	1.18	0.94	0.70	-0.92	0.55	0.80	-1.85	-0.43	-0.65	1.52	1.01	1.23	1.55	-0.16	-0.77	1.40	**7.52**
2648	2,4,3,6,10,13,17,19,22,24,29,36,38,40,42,46,48,52,53,54	1.08	1.18	0.59	0.32	-0.38	-0.30	0.56	-1.67	-0.30	-0.65	1.20	0.05	0.74	1.55	-0.16	-0.77	1.40	**4.43**
2649	2,4,3,6,10,13,17,19,22,24,29,36,38,40,42,47,50,54	0.19	1.44	-0.26	-0.73	0.50	0.55	-0.16	-1.67	0.40	-0.41	-0.09	-0.90	0.41	1.55	-0.16	-0.77	1.40	**1.29**
2650	2,4,3,6,10,13,17,19,22,24,29,36,38,40,42,49,53,54	0.15	1.18	-0.28	-0.78	0.47	-0.30	-0.40	-1.15	-0.18	-0.54	0.10	0.05	0.37	1.55	-0.16	-0.77	1.40	**0.71**
2651	2,4,3,6,10,13,17,19,22,24,29,36,38,41,44,55	0.66	0.40	0.47	-1.01	0.34	-0.73	-0.40	-1.85	0.15	-0.49	0.39	-0.90	0.90	1.55	-0.16	-0.77	1.40	**-0.05**
2652	2,4,3,6,10,13,17,19,22,24,29,36,38,41,45,55	2.36	1.44	1.31	0.01	-0.15	1.41	0.80	-1.27	1.47	0.32	1.09	-0.90	1.77	1.55	-0.16	-0.77	1.40	**11.68**
2653	2,4,3,6,10,13,17,19,22,24,29,36,38,43,47,46,48,51	1.41	0.92	0.94	0.78	-0.88	0.55	0.80	-1.85	-0.43	-0.61	1.52	1.01	1.23	1.55	-0.16	-0.77	1.40	**7.43**
2654	2,4,3,6,10,13,17,19,22,24,29,36,38,43,47,46,48,52,53,54	1.08	0.92	0.59	0.40	-0.34	-0.30	0.56	-1.67	-0.30	-0.61	1.21	0.05	0.75	1.55	-0.16	-0.77	1.40	**4.34**
2655	2,4,3,6,10,13,17,19,22,24,29,36,38,43,47,49,53,54	0.15	1.18	-0.28	-0.70	0.51	-0.30	-0.40	-1.15	-0.18	-0.51	0.10	0.05	0.37	1.55	-0.16	-0.77	1.40	**0.88**
2656	2,4,3,6,10,13,17,19,22,24,29,36,38,43,50,54	0.05	0.66	-0.30	-0.82	0.45	-0.30	-0.16	-1.67	0.40	-0.46	-0.14	-0.90	0.33	1.55	-0.16	-0.77	1.40	**-0.84**
2657	2,4,3,6,10,13,17,19,22,24,29,39,41,40,42,46,48,51	1.61	0.92	1.78	0.36	-2.25	-0.73	1.52	-2.07	-0.78	0.68	0.25	1.01	1.71	1.55	-0.16	-0.77	-0.72	**3.87**
2658	2,4,3,6,10,13,17,19,22,24,29,39,41,40,42,46,48,52,53,54	1.28	0.92	1.42	-0.03	-1.72	-1.59	1.28	-1.89	-0.66	0.68	-0.07	0.05	1.22	1.55	-0.16	-0.77	-0.72	**0.79**
2659	2,4,3,6,10,13,17,19,22,24,29,39,41,40,42,47,50,54	0.39	1.18	0.57	-1.07	-0.84	-0.73	0.56	-1.89	0.05	0.91	-1.36	-0.90	0.89	1.55	-0.16	-0.77	-0.72	**-2.35**
2660	2,4,3,6,10,13,17,19,22,24,29,39,41,40,42,49,53,54	0.35	0.92	0.55	-1.13	-0.87	-1.59	0.32	-1.37	-0.53	0.78	-1.17	0.05	0.85	1.55	-0.16	-0.77	-0.72	**-2.94**
2661	2,4,3,6,10,13,17,19,22,24,29,39,41,43,47,46,48,51	1.61	1.18	1.78	0.44	-2.21	-0.73	1.52	-2.07	-0.78	0.71	0.26	1.01	1.71	1.55	-0.16	-0.77	-0.72	**4.30**
2662	2,4,3,6,10,13,17,19,22,24,29,39,41,43,47,46,48,52,53,54	1.28	1.18	1.42	0.05	-1.67	-1.59	1.28	-1.89	-0.66	0.71	-0.06	0.05	1.22	1.55	-0.16	-0.77	-0.72	**1.21**
2663	2,4,3,6,10,13,17,19,22,24,29,39,41,43,47,49,53,54	0.35	1.44	0.55	-1.05	-0.82	-1.59	0.32	-1.37	-0.53	0.81	-1.17	0.05	0.85	1.55	-0.16	-0.77	-0.72	**-2.25**
2664	2,4,3,6,10,13,17,19,22,24,29,39,41,43,50,54	0.25	0.92	0.53	-1.16	-0.89	-1.59	0.56	-1.89	0.05	0.86	-1.41	-0.90	0.81	1.55	-0.16	-0.77	-0.72	**-3.97**
2665	2,4,3,6,10,13,17,19,22,24,29,39,44,55	-0.68	-0.38	0.88	-1.36	-0.99	-2.02	-0.64	-2.07	-0.21	0.83	-1.56	-0.90	0.75	1.55	-0.16	-0.77	-0.72	**-8.45**
2666	2,4,3,6,10,13,17,19,22,24,29,39,45,55	1.02	0.66	1.72	-0.34	-1.48	0.13	0.56	-1.49	1.12	1.64	-0.86	-0.90	1.62	1.55	-0.16	-0.77	-0.72	**3.29**
2667	2,4,3,6,10,13,17,19,22,25,29,36,35,37,40,41,44,55	0.54	0.40	0.45	-1.42	-0.04	-0.30	-0.16	-2.19	-0.61	-0.43	0.10	-0.90	0.90	1.58	-0.16	-0.77	-0.72	**-3.75**
2668	2,4,3,6,10,13,17,19,22,25,29,36,35,37,40,41,45,55	2.24	1.44	1.29	-0.40	-0.53	1.84	1.04	-1.61	0.71	0.38	0.81	-0.90	1.77	1.58	-0.16	-0.77	-0.72	**7.99**
2669	2,4,3,6,10,13,17,19,22,25,29,36,35,37,40,43,47,46,48,51	1.28	1.44	0.92	0.38	-1.26	0.98	1.04	-2.19	-1.19	-0.55	1.23	1.01	1.23	1.58	-0.16	-0.77	-0.72	**4.25**
2670	2,4,3,6,10,13,17,19,22,25,29,36,35,37,40,43,47,46,48,52,53,54	0.96	1.44	0.57	-0.01	-0.72	0.13	0.80	-2.01	-1.07	-0.55	0.91	0.05	0.75	1.58	-0.16	-0.77	-0.72	**1.16**
2671	2,4,3,6,10,13,17,19,22,25,29,36,35,37,40,43,47,49,53,54	0.03	1.70	-0.30	-1.11	0.13	0.13	-0.16	-1.49	-0.94	-0.45	-0.19	0.05	0.38	1.58	-0.16	-0.77	-0.72	**-2.30**
2672	2,4,3,6,10,13,17,19,22,25,29,36,35,37,40,43,50,54	-0.07	1.18	-0.32	-1.22	0.06	0.13	0.08	-2.01	-0.36	-0.41	-0.43	-0.90	0.33	1.58	-0.16	-0.77	-0.72	**-4.02**
2673	2,4,3,6,10,13,17,19,22,25,29,36,35,37,42,46,48,51	1.15	0.66	0.89	0.30	-1.30	0.13	1.04	-2.19	-1.19	-0.59	1.19	1.01	1.16	1.58	-0.16	-0.77	-0.72	**2.18**
2674	2,4,3,6,10,13,17,19,22,25,29,36,35,37,42,46,48,52,53,54	0.82	0.66	0.53	-0.08	-0.77	-0.73	0.80	-2.01	-1.07	-0.59	0.88	0.05	0.68	1.58	-0.16	-0.77	-0.72	**-0.91**
2675	2,4,3,6,10,13,17,19,22,25,29,36,35,37,42,47,50,54	-0.06	0.92	-0.32	-1.13	0.11	0.13	0.08	-2.01	-0.36	-0.36	-0.41	-0.90	0.34	1.58	-0.16	-0.77	-0.72	**-4.05**
2676	2,4,3,6,10,13,17,19,22,25,29,36,35,37,42,49,53,54	-0.10	0.66	-0.34	-1.18	0.08	-0.73	-0.16	-1.49	-0.94	-0.48	-0.23	0.05	0.30	1.58	-0.16	-0.77	-0.72	**-4.63**
2677	2,4,3,6,10,13,17,19,22,25,29,36,38,40,42,46,48,51	1.19	0.92	0.88	0.27	-0.59	0.55	1.04	-1.82	-0.86	-0.58	1.15	1.01	1.17	1.58	-0.16	-0.77	1.40	**6.39**
2678	2,4,3,6,10,13,17,19,22,25,29,36,38,40,42,46,48,52,53,54	0.86	0.92	0.53	-0.12	-0.05	-0.30	0.80	-1.64	-0.74	-0.58	0.83	0.05	0.68	1.58	-0.16	-0.77	1.40	**3.30**
2679	2,4,3,6,10,13,17,19,22,25,29,36,38,40,42,47,50,54	-0.02	1.18	-0.32	-1.16	0.83	0.55	0.08	-1.64	-0.04	-0.34	-0.45	-0.90	0.35	1.58	-0.16	-0.77	1.40	**0.16**
2680	2,4,3,6,10,13,17,19,22,25,29,36,38,40,42,49,53,54	-0.06	0.92	-0.34	-1.22	0.80	-0.30	-0.16	-1.12	-0.62	-0.47	-0.27	0.05	0.31	1.58	-0.16	-0.77	1.40	**-0.42**
2681	2,4,3,6,10,13,17,19,22,25,29,36,38,41,44,55	0.45	0.14	0.41	-1.45	0.67	-0.73	-0.16	-1.82	-0.29	-0.42	0.02	-0.90	0.84	1.58	-0.16	-0.77	1.40	**-1.18**
2682	2,4,3,6,10,13,17,19,22,25,29,36,38,41,45,55	2.15	1.18	1.25	-0.43	0.18	1.41	1.04	-1.25	1.03	0.39	0.73	-0.90	1.71	1.58	-0.16	-0.77	1.40	**10.55**
2683	2,4,3,6,10,13,17,19,22,25,29,36,38,43,47,46,48,51	1.19	0.66	0.89	0.35	-0.54	0.55	1.04	-1.82	-0.86	-0.54	1.16	1.01	1.17	1.58	-0.16	-0.77	1.40	**6.30**
2684	2,4,3,6,10,13,17,19,22,25,29,36,38,43,47,46,48,52,53,54	0.86	0.66	0.53	-0.04	-0.01	-0.30	0.80	-1.64	-0.74	-0.54	0.84	0.05	0.69	1.58	-0.16	-0.77	1.40	**3.21**
2685	2,4,3,6,10,13,17,19,22,25,29,36,38,43,47,49,53,54	-0.06	0.92	-0.34	-1.14	0.85	-0.30	-0.16	-1.12	-0.62	-0.44	-0.26	0.05	0.32	1.58	-0.16	-0.77	1.40	**-0.25**
2686	2,4,3,6,10,13,17,19,22,25,29,36,38,43,50,54	-0.16	0.40	-0.36	-1.25	0.78	-0.30	0.08	-1.64	-0.04	-0.40	-0.51	-0.90	0.27	1.58	-0.16	-0.77	1.40	**-1.97**
2687	2,4,3,6,10,13,17,19,22,25,29,39,41,40,42,46,48,51	1.39	0.66	1.72	-0.07	-1.92	-0.73	1.75	-2.05	-1.22	0.75	-0.12	1.01	1.65	1.58	-0.16	-0.77	-0.72	**2.74**
2688	2,4,3,6,10,13,17,19,22,25,29,39,41,40,42,46,48,52,53,54	1.06	0.66	1.36	-0.46	-1.38	-1.59	1.52	-1.87	-1.10	0.75	-0.43	0.05	1.16	1.58	-0.16	-0.77	-0.72	**-0.35**
2689	2,4,3,6,10,13,17,19,22,25,29,39,41,40,42,47,50,54	0.18	0.92	0.51	-1.51	-0.50	-0.73	0.80	-1.87	-0.39	0.98	-1.72	-0.90	0.83	1.58	-0.16	-0.77	-0.72	**-3.49**
2690	2,4,3,6,10,13,17,19,22,25,29,39,41,40,42,49,53,54	0.14	0.66	0.49	-1.56	-0.53	-1.59	0.56	-1.35	-0.97	0.85	-1.54	0.05	0.79	1.58	-0.16	-0.77	-0.72	**-4.07**
2691	2,4,3,6,10,13,17,19,22,25,29,39,41,43,47,46,48,51	1.39	0.92	1.72	0.01	-1.88	-0.73	1.75	-2.05	-1.22	0.78	-0.11	1.01	1.65	1.58	-0.16	-0.77	-0.72	**3.17**
2692	2,4,3,6,10,13,17,19,22,25,29,39,41,43,47,46,48,52,53,54	1.07	0.92	1.36	-0.38	-1.34	-1.59	1.52	-1.87	-1.10	0.78	-0.43	0.05	1.17	1.58	-0.16	-0.77	-0.72	**0.08**
2693	2,4,3,6,10,13,17,19,22,25,29,39,41,43,47,49,53,54	0.14	1.18	0.50	-1.48	-0.49	-1.59	0.56	-1.35	-0.97	0.88	-1.53	0.05	0.80	1.58	-0.16	-0.77	-0.72	**-3.38**
2694	2,4,3,6,10,13,17,19,22,25,29,39,41,43,50,54	0.04	0.66	0.48	-1.60	-0.55	-1.59	0.80	-1.87	-0.39	0.93	-1.77	-0.90	0.75	1.58	-0.16	-0.77	-0.72	**-5.10**
2695	2,4,3,6,10,13,17,19,22,25,29,39,44,55	-0.90	-0.64	0.83	-1.79	-0.66	-2.02	-0.40	-2.05	-0.64	0.90	-1.93	-0.90	0.69	1.58	-0.16	-0.77	-0.72	**-9.58**
2696	2,4,3,6,10,13,17,19,22,25,29,39,45,55	0.81	0.40	1.67	-0.77	-1.15	0.13	0.80	-1.47	0.68	1.71	-1.22	-0.90	1.56	1.58	-0.16	-0.77	-0.72	**2.16**
2697	2,4,3,6,10,13,17,21,27,26,30,32,46,47,50,54	1.08	1.70	0.27	-0.76	0.28	1.84	1.52	-2.27	1.47	-0.55	1.29	-0.90	0.94	0.29	-0.16	1.14	0.98	**8.15**
2698	2,4,3,6,10,13,17,21,27,26,30,32,46,49,53,54	1.03	1.44	0.25	-0.81	0.26	0.98	1.28	-1.75	0.88	-0.68	1.45	0.05	0.90	0.29	-0.16	1.14	0.98	**7.54**
2699	2,4,3,6,10,13,17,21,27,26,30,32,48,51	0.53	0.92	0.99	-1.40	-1.70	1.84	1.99	-2.45	0.64	-0.78	0.95	-0.90	1.41	0.29	-0.16	1.14	0.98	**4.29**
2700	2,4,3,6,10,13,17,21,27,26,30,32,48,52,53,54	0.21	0.92	0.64	-1.79	-1.16	0.98	1.75	-2.27	0.76	-0.78	0.63	-1.85	0.93	0.29	-0.16	1.14	0.98	**1.21**
2701	2,4,3,6,10,13,17,21,27,26,31,34,35,37,40,41,44,55	-0.75	0.40	-0.63	-0.74	0.55	-0.30	-1.11	-1.86	-0.14	-1.17	0.49	-0.90	-0.60	-0.43	-0.16	1.14	-0.72	**-6.92**
2702	2,4,3,6,10,13,17,21,27,26,31,34,35,37,40,41,45,55	0.95	1.44	0.21	0.28	0.06	1.84	0.08	-1.28	1.18	-0.36	1.20	-0.90	0.28	-0.43	-0.16	1.14	-0.72	**4.81**
2703	2,4,3,6,10,13,17,21,27,26,31,34,35,37,40,43,47,46,48,51	0.00	1.44	-0.15	1.06	-0.67	0.98	0.08	-1.86	-0.71	-1.29	1.62	1.01	-0.26	-0.43	-0.16	1.14	-0.72	**1.07**
2704	2,4,3,6,10,13,17,21,27,26,31,34,35,37,40,43,47,46,48,52,53,54	-0.33	1.44	-0.51	0.67	-0.13	0.13	-0.16	-1.68	-0.59	-1.29	1.30	0.05	-0.74	-0.43	-0.16	1.14	-0.72	**-2.01**
2705	2,4,3,6,10,13,17,21,27,26,31,34,35,37,40,43,47,49,53,54	-1.26	1.70	-1.38	-0.43	0.72	0.13	-1.11	-1.16	-0.47	-1.19	0.20	0.05	-1.12	-0.43	-0.16	1.14	-0.72	**-5.48**
2706	2,4,3,6,10,13,17,21,27,26,31,34,35,37,40,43,50,54	-1.36	1.18	-1.40	-0.55	0.66	0.13	-0.87	-1.68	0.12	-1.14	-0.04	-0.90	-1.16	-0.43	-0.16	1.14	-0.72	**-7.20**
2707	2,4,3,6,10,13,17,21,27,26,31,34,35,37,42,46,48,51	-0.14	0.66	-0.19	0.98	-0.71	0.13	0.08	-1.86	-0.71	-1.32	1.59	1.01	-0.33	-0.43	-0.16	1.14	-0.72	**-1.00**
2708	2,4,3,6,10,13,17,21,27,26,31,34,35,37,42,46,48,52,53,54	-0.46	0.66	-0.55	0.59	-0.17	-0.73	-0.16	-1.68	-0.59	-1.32	1.27	0.05	-0.82	-0.43	-0.16	1.14	-0.72	**-4.08**
2709	2,4,3,6,10,13,17,21,27,26,31,34,35,37,42,47,50,54	-1.35	0.92	-1.39	-0.46	0.71	0.13	-0.87	-1.68	0.12	-1.09	-0.02	-0.90	-1.15	-0.43	-0.16	1.14	-0.72	**-7.22**

Table F-2: Raw Scores for All Routes

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
2710	2,4,3,6,10,13,17,21,27,26,31,34,35,37,42,49,53,54	-1.39	0.66	-1.41	-0.51	0.68	-0.73	-1.11	-1.16	-0.47	-1.22	0.16	0.05	-1.19	-0.43	-0.16	1.14	-0.72	**-7.81**
2711	2,4,3,6,10,13,17,21,27,26,31,34,36,39,41,40,42,46,48,51	1.20	1.44	0.94	1.23	-1.33	0.13	0.80	-1.71	-0.74	0.65	0.52	1.01	0.71	-0.43	-0.16	1.14	-0.72	**4.66**
2712	2,4,3,6,10,13,17,21,27,26,31,34,36,39,41,40,42,46,48,52,53,54	0.87	1.44	0.58	0.85	-0.79	-0.73	0.56	-1.53	-0.62	0.65	0.20	0.05	0.22	-0.43	-0.16	1.14	-0.72	**1.57**
2713	2,4,3,6,10,13,17,21,27,26,31,34,36,39,41,40,42,47,50,54	-0.01	1.70	-0.27	-0.20	0.09	0.13	-0.16	-1.53	0.09	0.88	-1.09	-0.90	-0.11	-0.43	-0.16	1.14	-0.72	**-1.57**
2714	2,4,3,6,10,13,17,21,27,26,31,34,36,39,41,40,42,49,53,54	-0.06	1.44	-0.29	-0.25	0.06	-0.73	-0.40	-1.01	-0.50	0.75	-0.90	0.05	-0.15	-0.43	-0.16	1.14	-0.72	**-2.15**
2715	2,4,3,6,10,13,17,21,27,26,31,34,36,39,41,43,47,46,48,51	1.20	1.70	0.94	1.31	-1.29	0.13	0.80	-1.71	-0.74	0.68	0.52	1.01	0.71	-0.43	-0.16	1.14	-0.72	**5.09**
2716	2,4,3,6,10,13,17,21,27,26,31,34,36,39,41,43,47,46,48,52,53,54	0.87	1.70	0.58	0.93	-0.75	-0.73	0.56	-1.53	-0.62	0.68	0.20	0.05	0.23	-0.43	-0.16	1.14	-0.72	**2.00**
2717	2,4,3,6,10,13,17,21,27,26,31,34,36,39,41,43,47,49,53,54	-0.05	1.96	-0.28	-0.17	0.10	-0.73	-0.40	-1.01	-0.50	0.79	-0.90	0.05	-0.14	-0.43	-0.16	1.14	-0.72	**-1.46**
2718	2,4,3,6,10,13,17,21,27,26,31,34,36,39,41,43,50,54	-0.15	1.44	-0.30	-0.29	0.04	-0.73	-0.16	-1.53	0.09	0.83	-1.14	-0.90	-0.19	-0.43	-0.16	1.14	-0.72	**-3.18**
2719	2,4,3,6,10,13,17,21,27,26,31,34,36,39,44,55	-1.09	0.14	0.05	-0.48	-0.07	-1.16	-1.35	-1.71	-0.17	0.81	-1.29	-0.90	-0.25	-0.43	-0.16	1.14	-0.72	**-7.66**
2720	2,4,3,6,10,13,17,21,27,26,31,34,36,39,45,55	0.61	1.18	0.89	0.53	-0.56	0.98	-0.16	-1.14	1.15	1.62	-0.59	-0.90	0.63	-0.43	-0.16	1.14	-0.72	**4.08**
2721	2,4,3,6,10,13,17,21,27,26,31,34,38,40,42,46,48,51	-0.10	0.66	-0.19	0.95	0.01	0.55	0.08	-1.49	-0.39	-1.31	1.55	1.01	-0.33	-0.43	-0.16	1.14	1.40	**2.95**
2722	2,4,3,6,10,13,17,21,27,26,31,34,38,40,42,46,48,52,53,54	-0.42	0.66	-0.55	0.56	0.54	-0.30	-0.16	-1.31	-0.27	-1.31	1.23	0.05	-0.81	-0.43	-0.16	1.14	1.40	**-0.13**
2723	2,4,3,6,10,13,17,21,27,26,31,34,38,40,42,47,50,54	-1.31	0.92	-1.39	-0.49	1.42	0.55	-0.87	-1.31	0.44	-1.08	-0.06	-0.90	-1.15	-0.43	-0.16	1.14	1.40	**-3.27**
2724	2,4,3,6,10,13,17,21,27,26,31,34,38,40,42,49,53,54	-1.35	0.66	-1.41	-0.54	1.39	-0.30	-1.11	-0.79	-0.14	-1.21	0.12	0.05	-1.18	-0.43	-0.16	1.14	1.40	**-3.86**
2725	2,4,3,6,10,13,17,21,27,26,31,34,38,41,44,55	-0.84	-0.12	-0.66	-0.77	1.27	-0.73	-1.11	-1.49	0.18	-1.16	0.41	-0.90	-0.66	-0.43	-0.16	1.14	1.40	**-4.62**
2726	2,4,3,6,10,13,17,21,27,26,31,34,38,41,45,55	0.86	0.92	0.18	0.25	0.78	1.41	0.08	-0.91	1.51	-0.35	1.12	-0.90	0.22	-0.43	-0.16	1.14	1.40	**7.12**
2727	2,4,3,6,10,13,17,21,27,26,31,34,38,43,47,46,48,51	-0.09	0.40	-0.19	1.03	0.05	0.55	0.08	-1.49	-0.39	-1.28	1.55	1.01	-0.32	-0.43	-0.16	1.14	1.40	**2.86**
2728	2,4,3,6,10,13,17,21,27,26,31,34,38,43,47,46,48,52,53,54	-0.42	0.40	-0.55	0.64	0.59	-0.30	-0.16	-1.31	-0.27	-1.28	1.23	0.05	-0.81	-0.43	-0.16	1.14	1.40	**-0.22**
2729	2,4,3,6,10,13,17,21,27,26,31,34,38,43,47,49,53,54	-1.35	0.66	-1.41	-0.46	1.44	-0.30	-1.11	-0.79	-0.14	-1.17	0.13	0.05	-1.18	-0.43	-0.16	1.14	1.40	**-3.69**
2730	2,4,3,6,10,13,17,21,27,26,31,34,38,43,50,54	-1.45	0.14	-1.43	-0.58	1.37	-0.30	-0.87	-1.31	0.44	-1.13	-0.11	-0.90	-1.22	-0.43	-0.16	1.14	1.40	**-5.41**
2731	2,4,3,6,10,13,17,21,27,26,33,37,40,41,44,55	-0.81	-0.64	-0.66	-0.76	0.19	-0.30	-0.87	-1.86	-0.44	-1.15	0.44	-0.90	-0.62	-0.43	-0.16	1.14	-0.72	**-8.56**
2732	2,4,3,6,10,13,17,21,27,26,33,37,40,41,45,55	0.89	0.40	0.18	0.26	-0.30	1.84	0.32	-1.28	0.88	-0.34	1.14	-0.90	0.26	-0.43	-0.16	1.14	-0.72	**3.18**
2733	2,4,3,6,10,13,17,21,27,26,33,37,40,43,47,46,48,51	-0.07	0.40	-0.18	1.03	-1.03	0.98	0.32	-1.86	-1.01	-1.27	1.57	1.01	-0.28	-0.43	-0.16	1.14	-0.72	**-0.56**
2734	2,4,3,6,10,13,17,21,27,26,33,37,40,43,47,46,48,52,53,54	-0.39	0.40	-0.54	0.65	-0.49	0.13	0.08	-1.68	-0.89	-1.27	1.25	0.05	-0.76	-0.43	-0.16	1.14	-0.72	**-3.65**
2735	2,4,3,6,10,13,17,21,27,26,33,37,40,43,47,49,53,54	-1.32	0.66	-1.41	-0.45	0.36	0.13	-0.87	-1.16	-0.77	-1.17	0.15	0.05	-1.14	-0.43	-0.16	1.14	-0.72	**-7.11**
2736	2,4,3,6,10,13,17,21,27,26,33,37,40,43,50,54	-1.42	0.14	-1.43	-0.57	0.30	0.13	-0.64	-1.68	-0.19	-1.13	-0.10	-0.90	-1.18	-0.43	-0.16	1.14	-0.72	**-8.83**
2737	2,4,3,6,10,13,17,21,27,26,33,37,42,46,48,51	-0.20	-0.38	-0.22	0.96	-1.07	0.13	0.32	-1.86	-1.01	-1.31	1.53	1.01	-0.35	-0.43	-0.16	1.14	-0.72	**-2.63**
2738	2,4,3,6,10,13,17,21,27,26,33,37,42,46,48,52,53,54	-0.53	-0.38	-0.58	0.57	-0.53	-0.73	0.08	-1.68	-0.89	-1.31	1.21	0.05	-0.84	-0.43	-0.16	1.14	-0.72	**-5.72**
2739	2,4,3,6,10,13,17,21,27,26,33,37,42,47,50,54	-1.41	-0.12	-1.43	-0.48	0.35	0.13	-0.64	-1.68	-0.19	-1.07	-0.07	-0.90	-1.17	-0.43	-0.16	1.14	-0.72	**-8.86**
2740	2,4,3,6,10,13,17,21,27,26,33,37,42,49,53,54	-1.45	-0.38	-1.44	-0.53	0.32	-0.73	-0.87	-1.16	-0.77	-1.20	0.11	0.05	-1.21	-0.43	-0.16	1.14	-0.72	**-9.44**
2741	2,4,3,6,10,13,17,21,28,31,30,32,46,47,50,54	1.00	1.18	0.20	-0.73	0.49	1.84	1.52	-2.27	1.11	-0.30	1.04	-0.90	0.84	0.29	-0.16	-0.77	0.98	**5.35**
2742	2,4,3,6,10,13,17,21,28,31,30,32,46,49,53,54	0.96	0.92	0.18	-0.78	0.46	0.98	1.28	-1.75	0.53	-0.43	1.20	0.05	0.81	0.29	-0.16	-0.77	0.98	**4.74**
2743	2,4,3,6,10,13,17,21,28,31,30,32,48,51	0.46	0.40	0.92	-1.38	-1.49	1.84	1.99	-2.45	0.28	-0.54	0.69	-0.90	1.32	0.29	-0.16	-0.77	0.98	**1.49**
2744	2,4,3,6,10,13,17,21,28,31,30,32,48,52,53,54	0.13	0.40	0.57	-1.76	-0.96	0.98	1.75	-2.27	0.41	-0.54	0.37	-1.85	0.83	0.29	-0.16	-0.77	0.98	**-1.59**
2745	2,4,3,6,10,13,17,21,28,31,33,37,40,41,44,55	-0.89	-0.64	-0.73	-0.73	0.40	-0.30	-0.87	-1.86	-0.79	-0.91	0.18	-0.90	-0.71	-0.43	-0.16	-0.77	-0.72	**-10.84**
2746	2,4,3,6,10,13,17,21,28,31,33,37,40,41,45,55	0.81	0.40	0.11	0.28	-0.09	1.84	0.32	-1.28	0.53	-0.10	0.89	-0.90	0.17	-0.43	-0.16	-0.77	-0.72	**0.90**
2747	2,4,3,6,10,13,17,21,28,31,33,37,40,43,47,46,48,51	-0.14	0.40	-0.25	1.06	-0.82	0.98	0.32	-1.86	-1.37	-1.03	1.31	1.01	-0.37	-0.43	-0.16	-0.77	-0.72	**-2.84**
2748	2,4,3,6,10,13,17,21,28,31,33,37,40,43,47,46,48,52,53,54	-0.47	0.40	-0.61	0.68	-0.28	0.13	0.08	-1.68	-1.25	-1.03	0.99	0.05	-0.86	-0.43	-0.16	-0.77	-0.72	**-5.93**
2749	2,4,3,6,10,13,17,21,28,31,33,37,40,43,47,49,53,54	-1.40	0.66	-1.48	-0.42	0.57	0.13	-0.87	-1.16	-1.12	-0.92	-0.11	0.05	-1.23	-0.43	-0.16	-0.77	-0.72	**-9.39**
2750	2,4,3,6,10,13,17,21,28,31,33,37,40,43,50,54	-1.50	0.14	-1.50	-0.54	0.50	0.13	-0.64	-1.68	-0.54	-0.88	-0.35	-0.90	-1.27	-0.43	-0.16	-0.77	-0.72	**-11.11**
2751	2,4,3,6,10,13,17,21,28,31,33,37,42,46,48,51	-0.27	-0.38	-0.29	0.98	-0.86	0.13	0.32	-1.86	-1.37	-1.06	1.27	1.01	-0.45	-0.43	-0.16	-0.77	-0.72	**-4.91**
2752	2,4,3,6,10,13,17,21,28,31,33,37,42,46,48,52,53,54	-0.60	-0.38	-0.65	0.60	-0.33	-0.73	0.08	-1.68	-1.25	-1.06	0.96	0.05	-0.93	-0.43	-0.16	-0.77	-0.72	**-8.00**
2753	2,4,3,6,10,13,17,21,28,31,33,37,42,47,50,54	-1.48	-0.12	-1.50	-0.45	0.55	0.13	-0.64	-1.68	-0.54	-0.83	-0.33	-0.90	-1.27	-0.43	-0.16	-0.77	-0.72	**-11.14**
2754	2,4,3,6,10,13,17,21,28,31,33,37,42,49,53,54	-1.53	-0.38	-1.51	-0.50	0.52	-0.73	-0.87	-1.16	-1.12	-0.96	-0.15	0.05	-1.30	-0.43	-0.16	-0.77	-0.72	**-11.73**
2755	2,4,3,6,10,13,17,21,28,34,35,37,40,41,44,55	-0.91	-0.64	-0.72	-0.71	0.75	-0.30	-1.11	-1.86	-0.49	-0.95	0.15	-0.90	-0.75	-0.43	-0.16	-0.77	-0.72	**-10.53**
2756	2,4,3,6,10,13,17,21,28,34,35,37,40,41,45,55	0.79	0.40	0.12	0.31	0.26	1.84	0.08	-1.28	0.83	-0.14	0.86	-0.90	0.12	-0.43	-0.16	-0.77	-0.72	**1.21**
2757	2,4,3,6,10,13,17,21,28,34,35,37,40,43,47,46,48,51	-0.17	0.40	-0.25	1.08	-0.46	0.98	0.08	-1.86	-1.07	-1.07	1.29	1.01	-0.42	-0.43	-0.16	-0.77	-0.72	**-2.53**
2758	2,4,3,6,10,13,17,21,28,34,35,37,40,43,47,46,48,52,53,54	-0.50	0.40	-0.60	0.70	0.07	0.13	-0.16	-1.68	-0.94	-1.07	0.97	0.05	-0.90	-0.43	-0.16	-0.77	-0.72	**-5.62**
2759	2,4,3,6,10,13,17,21,28,34,35,37,40,43,47,49,53,54	-1.42	0.66	-1.47	-0.40	0.93	0.13	-1.11	-1.16	-0.82	-0.97	-0.14	0.05	-1.27	-0.43	-0.16	-0.77	-0.72	**-9.08**
2760	2,4,3,6,10,13,17,21,28,34,35,37,40,43,50,54	-1.52	0.14	-1.49	-0.52	0.86	0.13	-0.87	-1.68	-0.24	-0.92	-0.38	-0.90	-1.32	-0.43	-0.16	-0.77	-0.72	**-10.80**
2761	2,4,3,6,10,13,17,21,28,34,35,37,42,46,48,51	-0.30	-0.38	-0.28	1.00	-0.51	0.13	0.08	-1.86	-1.07	-1.10	1.25	1.01	-0.49	-0.43	-0.16	-0.77	-0.72	**-4.61**
2762	2,4,3,6,10,13,17,21,28,34,35,37,42,46,48,52,53,54	-0.63	-0.38	-0.64	0.62	0.03	-0.73	-0.16	-1.68	-0.94	-1.10	0.93	0.05	-0.98	-0.43	-0.16	-0.77	-0.72	**-7.69**
2763	2,4,3,6,10,13,17,21,28,34,35,37,42,47,50,54	-1.51	-0.12	-1.49	-0.43	0.91	0.13	-0.87	-1.68	-0.24	-0.87	-0.36	-0.90	-1.31	-0.43	-0.16	-0.77	-0.72	**-10.83**
2764	2,4,3,6,10,13,17,21,28,34,35,37,42,49,53,54	-1.56	-0.38	-1.51	-0.48	0.88	-0.73	-1.11	-1.16	-0.82	-1.00	-0.17	0.05	-1.35	-0.43	-0.16	-0.77	-0.72	**-11.42**
2765	2,4,3,6,10,13,17,21,28,34,36,39,41,40,42,46,48,51	1.03	0.40	0.84	1.26	-1.12	0.13	0.80	-1.71	-1.10	0.87	0.18	1.01	0.55	-0.43	-0.16	-0.77	-0.72	**1.05**
2766	2,4,3,6,10,13,17,21,28,34,36,39,41,40,42,46,48,52,53,54	0.70	0.40	0.49	0.87	-0.59	-0.73	0.56	-1.53	-0.97	0.87	-0.14	0.05	0.07	-0.43	-0.16	-0.77	-0.72	**-2.04**
2767	2,4,3,6,10,13,17,21,28,34,36,39,41,40,42,47,50,54	-0.18	0.66	-0.36	-0.17	0.29	0.13	-0.16	-1.53	-0.27	1.10	-1.42	-0.90	-0.27	-0.43	-0.16	-0.77	-0.72	**-5.18**
2768	2,4,3,6,10,13,17,21,28,34,36,39,41,40,42,49,53,54	-0.22	0.40	-0.38	-0.23	0.26	-0.73	-0.40	-1.01	-0.85	0.97	-1.24	0.05	-0.30	-0.43	-0.16	-0.77	-0.72	**-5.76**
2769	2,4,3,6,10,13,17,21,28,34,36,39,41,43,47,46,48,51	1.03	0.66	0.84	1.34	-1.08	0.13	0.80	-1.71	-1.10	0.90	0.19	1.01	0.56	-0.43	-0.16	-0.77	-0.72	**1.48**
2770	2,4,3,6,10,13,17,21,28,34,36,39,41,43,47,46,48,52,53,54	0.71	0.66	0.49	0.95	-0.54	-0.73	0.56	-1.53	-0.97	0.90	-0.13	0.05	0.07	-0.43	-0.16	-0.77	-0.72	**-1.61**
2771	2,4,3,6,10,13,17,21,28,34,36,39,41,43,47,49,53,54	-0.22	0.92	-0.38	-0.15	0.31	-0.73	-0.40	-1.01	-0.85	1.01	-1.24	0.05	-0.30	-0.43	-0.16	-0.77	-0.72	**-5.07**
2772	2,4,3,6,10,13,17,21,28,34,36,39,41,43,50,54	-0.32	0.40	-0.40	-0.27	0.24	-0.73	-0.16	-1.53	-0.27	1.05	-1.48	-0.90	-0.34	-0.43	-0.16	-0.77	-0.72	**-6.79**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
2773	2,4,3,6,10,13,17,21,28,34,36,39,44,55	-1.25	-0.90	-0.05	-0.46	0.14	-1.16	-1.35	-1.71	-0.52	1.03	-1.63	-0.90	-0.41	-0.43	-0.16	-0.77	-0.72	**-11.27**
2774	2,4,3,6,10,13,17,21,28,34,36,39,45,55	0.45	0.14	0.79	0.56	-0.35	0.98	-0.16	-1.14	0.80	1.84	-0.92	-0.90	0.47	-0.43	-0.16	-0.77	-0.72	**0.47**
2775	2,4,3,6,10,13,17,21,28,34,38,40,42,46,48,51	-0.26	-0.38	-0.29	0.97	0.21	0.55	0.08	-1.49	-0.74	-1.09	1.21	1.01	-0.48	-0.43	-0.16	-0.77	1.40	**-0.65**
2776	2,4,3,6,10,13,17,21,28,34,38,40,42,46,48,52,53,54	-0.59	-0.38	-0.64	0.59	0.75	-0.30	-0.16	-1.31	-0.62	-1.09	0.89	0.05	-0.97	-0.43	-0.16	-0.77	1.40	**-3.74**
2777	2,4,3,6,10,13,17,21,28,34,38,40,42,47,50,54	-1.47	-0.12	-1.49	-0.46	1.63	0.55	-0.87	-1.31	0.09	-0.86	-0.40	-0.90	-1.30	-0.43	-0.16	-0.77	1.40	**-6.88**
2778	2,4,3,6,10,13,17,21,28,34,38,40,42,49,53,54	-1.52	-0.38	-1.51	-0.51	1.60	-0.30	-1.11	-0.79	-0.50	-0.99	-0.21	0.05	-1.34	-0.43	-0.16	-0.77	1.40	**-7.46**
2779	2,4,3,6,10,13,17,21,28,34,38,41,44,55	-1.01	-1.15	-0.76	-0.74	1.47	-0.73	-1.11	-1.49	-0.17	-0.94	0.08	-0.90	-0.82	-0.43	-0.16	-0.77	1.40	**-8.23**
2780	2,4,3,6,10,13,17,21,28,34,38,41,45,55	0.70	-0.12	0.08	0.28	0.98	1.41	0.08	-0.91	1.15	-0.13	0.78	-0.90	0.06	-0.43	-0.16	-0.77	1.40	**3.51**
2781	2,4,3,6,10,13,17,21,28,34,38,43,47,46,48,51	-0.26	-0.64	-0.28	1.05	0.25	0.55	0.08	-1.49	-0.74	-1.06	1.22	1.01	-0.48	-0.43	-0.16	-0.77	1.40	**-0.74**
2782	2,4,3,6,10,13,17,21,28,34,38,43,47,46,48,52,53,54	-0.59	-0.64	-0.64	0.67	0.79	-0.30	-0.16	-1.31	-0.62	-1.06	0.90	0.05	-0.96	-0.43	-0.16	-0.77	1.40	**-3.83**
2783	2,4,3,6,10,13,17,21,28,34,38,43,47,49,53,54	-1.51	-0.38	-1.51	-0.43	1.64	-0.30	-1.11	-0.79	-0.50	-0.95	-0.21	0.05	-1.34	-0.43	-0.16	-0.77	1.40	**-7.29**
2784	2,4,3,6,10,13,17,21,28,34,38,43,50,54	-1.61	-0.90	-1.53	-0.55	1.58	-0.30	-0.87	-1.31	0.09	-0.91	-0.45	-0.90	-1.38	-0.43	-0.16	-0.77	1.40	**-9.01**
2785	2,4,3,6,10,15,23,26,30,32,46,47,50,54	1.00	1.18	0.30	-1.31	0.22	0.98	0.80	-1.51	1.77	-0.11	0.63	-0.90	0.89	0.10	-0.16	1.14	0.98	**6.00**
2786	2,4,3,6,10,15,23,26,30,32,46,49,53,54	0.96	0.92	0.28	-1.36	0.19	0.13	0.56	-0.99	1.19	-0.23	0.79	0.05	0.86	0.10	-0.16	1.14	0.98	**5.39**
2787	2,4,3,6,10,15,23,26,30,32,48,51	0.46	0.40	1.03	-1.95	-1.76	0.98	1.28	-1.69	0.94	-0.34	0.28	-0.90	1.36	0.10	-0.16	1.14	0.98	**2.15**
2788	2,4,3,6,10,15,23,26,30,32,48,52,53,54	0.13	0.40	0.67	-2.34	-1.22	0.13	1.04	-1.51	1.07	-0.34	-0.04	-1.85	0.88	0.10	-0.16	1.14	0.98	**-0.94**
2789	2,4,3,6,10,15,23,26,31,34,35,37,40,41,44,55	-0.82	-0.12	-0.59	-1.29	0.49	-1.16	-1.83	-1.09	0.17	-0.72	-0.18	-0.90	-0.64	-0.63	-0.16	1.14	-0.72	**-9.07**
2790	2,4,3,6,10,15,23,26,31,34,35,37,40,41,45,55	0.88	0.92	0.25	-0.27	-0.01	0.98	-0.64	-0.52	1.49	0.09	0.53	-0.90	0.24	-0.63	-0.16	1.14	-0.72	**2.67**
2791	2,4,3,6,10,15,23,26,31,34,35,37,40,43,47,46,48,51	-0.08	0.92	-0.12	0.51	-0.73	0.13	-0.64	-1.09	-0.41	-0.85	0.96	1.01	-0.30	-0.63	-0.16	1.14	-0.72	**-1.07**
2792	2,4,3,6,10,15,23,26,31,34,35,37,40,43,47,46,48,52,53,54	-0.41	0.92	-0.47	0.12	-0.19	-0.73	-0.87	-0.92	-0.28	-0.85	0.64	0.05	-0.79	-0.63	-0.16	1.14	-0.72	**-4.16**
2793	2,4,3,6,10,15,23,26,31,34,35,37,40,43,47,49,53,54	-1.33	1.18	-1.34	-0.98	0.66	-0.73	-1.83	-0.40	-0.16	-0.74	-0.47	0.05	-1.16	-0.63	-0.16	1.14	-0.72	**-7.62**
2794	2,4,3,6,10,15,23,26,31,34,35,37,40,43,50,54	-1.43	0.66	-1.36	-1.10	0.59	-0.73	-1.59	-0.92	0.42	-0.70	-0.71	-0.90	-1.20	-0.63	-0.16	1.14	-0.72	**-9.34**
2795	2,4,3,6,10,15,23,26,31,34,35,37,42,46,48,51	-0.21	0.14	-0.15	0.43	-0.78	-0.73	-0.64	-1.09	-0.41	-0.88	0.92	1.01	-0.38	-0.63	-0.16	1.14	-0.72	**-3.14**
2796	2,4,3,6,10,15,23,26,31,34,35,37,42,46,48,52,53,54	-0.54	0.14	-0.51	0.04	-0.24	-1.59	-0.87	-0.92	-0.28	-0.88	0.60	0.05	-0.86	-0.63	-0.16	1.14	-0.72	**-6.23**
2797	2,4,3,6,10,15,23,26,31,34,35,37,42,47,50,54	-1.42	0.40	-1.36	-1.01	0.64	-0.73	-1.59	-0.92	0.42	-0.65	-0.69	-0.90	-1.20	-0.63	-0.16	1.14	-0.72	**-9.37**
2798	2,4,3,6,10,15,23,26,31,34,35,37,42,49,53,54	-1.47	0.14	-1.38	-1.06	0.61	-1.59	-1.83	-0.40	-0.16	-0.78	-0.50	0.05	-1.23	-0.63	-0.16	1.14	-0.72	**-9.95**
2799	2,4,3,6,10,15,23,26,31,34,36,39,41,40,42,46,48,51	1.12	0.92	0.97	0.68	-1.39	-0.73	0.08	-0.95	-0.44	1.09	-0.15	1.01	0.66	-0.63	-0.16	1.14	-0.72	**2.51**
2800	2,4,3,6,10,15,23,26,31,34,36,39,41,40,42,46,48,52,53,54	0.80	0.92	0.62	0.30	-0.86	-1.59	-0.16	-0.77	-0.31	1.09	-0.47	0.05	0.18	-0.63	-0.16	1.14	-0.72	**-0.57**
2801	2,4,3,6,10,15,23,26,31,34,36,39,41,40,42,47,50,54	-0.09	1.18	-0.23	-0.75	0.02	-0.73	-0.87	-0.77	0.39	1.33	-1.75	-0.90	-0.16	-0.63	-0.16	1.14	-0.72	**-3.71**
2802	2,4,3,6,10,15,23,26,31,34,36,39,41,40,42,49,53,54	-0.13	0.92	-0.25	-0.80	0.00	-1.59	-1.11	-0.25	-0.19	1.20	-1.57	0.05	-0.19	-0.63	-0.16	1.14	-0.72	**-4.30**
2803	2,4,3,6,10,15,23,26,31,34,36,39,41,43,47,46,48,51	1.12	1.18	0.97	0.76	-1.35	-0.73	0.08	-0.95	-0.44	1.13	-0.14	1.01	0.67	-0.63	-0.16	1.14	-0.72	**2.94**
2804	2,4,3,6,10,15,23,26,31,34,36,39,41,43,47,46,48,52,53,54	0.80	1.18	0.62	0.38	-0.81	-1.59	-0.16	-0.77	-0.31	1.13	-0.46	0.05	0.18	-0.63	-0.16	1.14	-0.72	**-0.14**
2805	2,4,3,6,10,15,23,26,31,34,36,39,41,43,47,49,53,54	-0.13	1.44	-0.25	-0.72	0.04	-1.59	-1.11	-0.25	-0.19	1.23	-1.57	0.05	-0.19	-0.63	-0.16	1.14	-0.72	**-3.61**
2806	2,4,3,6,10,15,23,26,31,34,36,39,41,43,50,54	-0.23	0.92	-0.27	-0.84	-0.03	-1.59	-0.87	-0.77	0.39	1.27	-1.81	-0.90	-0.23	-0.63	-0.16	1.14	-0.72	**-5.33**
2807	2,4,3,6,10,15,23,26,31,34,36,39,44,55	-1.16	-0.38	0.08	-1.03	-0.13	-2.02	-2.07	-0.95	0.14	1.25	-1.96	-0.90	-0.29	-0.63	-0.16	1.14	-0.72	**-9.80**
2808	2,4,3,6,10,15,23,26,31,34,36,39,45,55	0.54	0.66	0.92	-0.01	-0.62	0.13	-0.87	-0.37	1.46	2.06	-1.25	-0.90	0.58	-0.63	-0.16	1.14	-0.72	**1.93**
2809	2,4,3,6,10,15,23,26,31,34,38,40,42,46,48,51	-0.17	0.14	-0.16	0.40	-0.06	-0.30	-0.64	-0.73	-0.08	-0.87	0.88	1.01	-0.37	-0.63	-0.16	1.14	1.40	**0.81**
2810	2,4,3,6,10,15,23,26,31,34,38,40,42,46,48,52,53,54	-0.50	0.14	-0.51	0.01	0.48	-1.16	-0.87	-0.55	0.04	-0.87	0.56	0.05	-0.86	-0.63	-0.16	1.14	1.40	**-2.28**
2811	2,4,3,6,10,15,23,26,31,34,38,40,42,47,50,54	-1.38	0.40	-1.36	-1.04	1.36	-0.30	-1.59	-0.55	0.74	-0.64	-0.73	-0.90	-1.19	-0.63	-0.16	1.14	1.40	**-5.42**
2812	2,4,3,6,10,15,23,26,31,34,38,40,42,49,53,54	-1.43	0.14	-1.38	-1.09	1.33	-1.16	-1.83	-0.03	0.16	-0.76	-0.54	0.05	-1.23	-0.63	-0.16	1.14	1.40	**-6.00**
2813	2,4,3,6,10,15,23,26,31,34,38,41,44,55	-0.91	-0.64	-0.63	-1.32	1.20	-1.59	-1.83	-0.73	0.49	-0.71	-0.25	-0.90	-0.70	-0.63	-0.16	1.14	1.40	**-6.76**
2814	2,4,3,6,10,15,23,26,31,34,38,41,45,55	0.79	0.40	0.21	-0.30	0.71	0.55	-0.64	-0.15	1.81	0.10	0.45	-0.90	0.17	-0.63	-0.16	1.14	1.40	**4.97**
2815	2,4,3,6,10,15,23,26,31,34,38,43,47,46,48,51	-0.17	-0.12	-0.15	0.48	-0.01	-0.30	-0.64	-0.73	-0.08	-0.83	0.88	1.01	-0.37	-0.63	-0.16	1.14	1.40	**0.72**
2816	2,4,3,6,10,15,23,26,31,34,38,43,47,46,48,52,53,54	-0.50	-0.12	-0.51	0.09	0.52	-1.16	-0.87	-0.55	0.04	-0.83	0.57	0.05	-0.85	-0.63	-0.16	1.14	1.40	**-2.37**
2817	2,4,3,6,10,15,23,26,31,34,38,43,47,49,53,54	-1.42	0.14	-1.38	-1.01	1.37	-1.16	-1.83	-0.03	0.16	-0.73	-0.54	0.05	-1.22	-0.63	-0.16	1.14	1.40	**-5.83**
2818	2,4,3,6,10,15,23,26,31,34,38,43,50,54	-1.52	-0.38	-1.40	-1.13	1.31	-1.16	-1.59	-0.55	0.74	-0.69	-0.78	-0.90	-1.27	-0.63	-0.16	1.14	1.40	**-7.55**
2819	2,4,3,6,10,15,23,26,33,37,40,41,44,55	-0.89	-1.15	-0.62	-1.31	0.13	-1.16	-1.59	-1.09	-0.14	-0.71	-0.23	-0.90	-0.66	-0.63	-0.16	1.14	-0.72	**-10.70**
2820	2,4,3,6,10,15,23,26,33,37,40,41,45,55	0.81	-0.12	0.22	-0.29	-0.36	0.98	-0.40	-0.52	1.19	0.10	0.48	-0.90	0.22	-0.63	-0.16	1.14	-0.72	**1.03**
2821	2,4,3,6,10,15,23,26,33,37,40,43,47,46,48,51	-0.14	-0.12	-0.15	0.49	-1.09	0.13	-0.40	-1.09	-0.71	-0.83	0.90	1.01	-0.32	-0.63	-0.16	1.14	-0.72	**-2.71**
2822	2,4,3,6,10,15,23,26,33,37,40,43,47,46,48,52,53,54	-0.47	-0.12	-0.51	0.10	-0.55	-0.73	-0.64	-0.92	-0.59	-0.83	0.58	0.05	-0.81	-0.63	-0.16	1.14	-0.72	**-5.79**
2823	2,4,3,6,10,15,23,26,33,37,40,43,47,49,53,54	-1.40	0.14	-1.37	-1.00	0.30	-0.73	-1.59	-0.40	-0.46	-0.73	-0.52	0.05	-1.18	-0.63	-0.16	1.14	-0.72	**-9.26**
2824	2,4,3,6,10,15,23,26,33,37,40,43,50,54	-1.50	-0.38	-1.39	-1.12	0.23	-0.73	-1.35	-0.92	0.12	-0.68	-0.76	-0.90	-1.22	-0.63	-0.16	1.14	-0.72	**-10.98**
2825	2,4,3,6,10,15,23,26,33,37,42,46,48,51	-0.28	-0.90	-0.19	0.41	-1.13	-0.73	-0.40	-1.09	-0.71	-0.86	0.87	1.01	-0.40	-0.63	-0.16	1.14	-0.72	**-4.78**
2826	2,4,3,6,10,15,23,26,33,37,42,46,48,52,53,54	-0.60	-0.90	-0.54	0.02	-0.60	-1.59	-0.64	-0.92	-0.59	-0.86	0.55	0.05	-0.88	-0.63	-0.16	1.14	-0.72	**-7.86**
2827	2,4,3,6,10,15,23,26,33,37,42,47,50,54	-1.49	-0.64	-1.39	-1.03	0.28	-0.73	-1.35	-0.92	0.12	-0.63	-0.74	-0.90	-1.22	-0.63	-0.16	1.14	-0.72	**-11.00**
2828	2,4,3,6,10,15,23,26,33,37,42,49,53,54	-1.53	-0.90	-1.41	-1.08	0.26	-1.59	-1.59	-0.40	-0.46	-0.76	-0.56	0.05	-1.25	-0.63	-0.16	1.14	-0.72	**-11.59**
2829	2,4,3,6,10,15,23,27,28,31,30,32,46,47,50,54	1.04	1.18	0.26	-1.28	0.43	0.98	0.80	-1.51	1.42	0.26	0.37	-0.90	0.86	0.10	-0.16	-0.77	0.98	**4.04**
2830	2,4,3,6,10,15,23,27,28,31,30,32,46,49,53,54	0.99	0.92	0.24	-1.33	0.40	0.13	0.56	-0.99	0.84	0.14	0.53	0.05	0.82	0.10	-0.16	-0.77	0.98	**3.44**
2831	2,4,3,6,10,15,23,27,28,31,30,32,48,51	0.49	0.40	0.99	-1.92	-1.56	0.98	1.28	-1.69	0.59	0.03	0.02	-0.90	1.33	0.10	-0.16	-0.77	0.98	**0.19**
2832	2,4,3,6,10,15,23,27,28,31,30,32,48,52,53,54	0.17	0.40	0.63	-2.31	-1.02	0.13	1.04	-1.51	0.71	0.03	-0.29	-1.85	0.85	0.10	-0.16	-0.77	0.98	**-2.90**
2833	2,4,3,6,10,15,23,27,28,31,33,37,40,41,44,55	-0.85	-0.64	-0.67	-1.28	0.33	-1.16	-1.59	-1.09	-0.49	-0.34	-0.49	-0.90	-0.69	-0.63	-0.16	-0.77	-0.72	**-12.14**
2834	2,4,3,6,10,15,23,27,28,31,33,37,40,41,45,55	0.85	0.40	0.18	-0.26	-0.16	0.98	-0.40	-0.52	0.83	0.47	0.22	-0.90	0.18	-0.63	-0.16	-0.77	-0.72	**-0.41**
2835	2,4,3,6,10,15,23,27,28,31,33,37,40,43,47,46,48,51	-0.11	0.40	-0.19	0.51	-0.88	0.13	-0.40	-1.09	-1.06	-0.46	0.65	1.01	-0.36	-0.63	-0.16	-0.77	-0.72	**-4.15**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
2836	2,4,3,6,10,15,23,27,28,31,33,37,40,43,47,46,48,52,53,54	-0.44	0.40	-0.55	0.13	-0.35	-0.73	-0.64	-0.92	-0.94	-0.46	0.33	0.05	-0.84	-0.63	-0.16	-0.77	-0.72	**-7.23**
2837	2,4,3,6,10,15,23,27,28,31,33,37,40,43,47,49,53,54	-1.36	0.66	-1.41	-0.97	0.50	-0.73	-1.59	-0.40	-0.82	-0.36	-0.78	0.05	-1.21	-0.63	-0.16	-0.77	-0.72	**-10.70**
2838	2,4,3,6,10,15,23,27,28,31,33,37,40,43,50,54	-1.46	0.14	-1.43	-1.09	0.44	-0.73	-1.35	-0.92	-0.23	-0.31	-1.02	-0.90	-1.26	-0.63	-0.16	-0.77	-0.72	**-12.42**
2839	2,4,3,6,10,15,23,27,28,31,33,37,42,46,48,51	-0.24	-0.38	-0.23	0.43	-0.93	-0.73	-0.40	-1.09	-1.06	-0.49	0.61	1.01	-0.43	-0.63	-0.16	-0.77	-0.72	**-6.22**
2840	2,4,3,6,10,15,23,27,28,31,33,37,42,46,48,52,53,54	-0.57	-0.38	-0.58	0.05	-0.39	-1.59	-0.64	-0.92	-0.94	-0.49	0.29	0.05	-0.92	-0.63	-0.16	-0.77	-0.72	**-9.30**
2841	2,4,3,6,10,15,23,27,28,31,33,37,42,47,50,54	-1.45	-0.12	-1.43	-1.00	0.49	-0.73	-1.35	-0.92	-0.23	-0.26	-1.00	-0.90	-1.25	-0.63	-0.16	-0.77	-0.72	**-12.44**
2842	2,4,3,6,10,15,23,27,28,31,33,37,42,49,53,54	-1.50	-0.38	-1.45	-1.05	0.46	-1.59	-1.59	-0.40	-0.82	-0.39	-0.81	0.05	-1.29	-0.63	-0.16	-0.77	-0.72	**-13.03**
2843	2,4,3,6,10,15,23,27,28,34,35,37,40,41,44,55	-0.88	-0.64	-0.66	-1.26	0.69	-1.16	-1.83	-1.09	-0.19	-0.38	-0.51	-0.90	-0.74	-0.63	-0.16	-0.77	-0.72	**-11.83**
2844	2,4,3,6,10,15,23,27,28,34,35,37,40,41,45,55	0.82	0.40	0.18	-0.24	0.20	0.98	-0.64	-0.52	1.14	0.43	0.20	-0.90	0.14	-0.63	-0.16	-0.77	-0.72	**-0.10**
2845	2,4,3,6,10,15,23,27,28,34,35,37,40,43,47,46,48,51	-0.14	0.40	-0.18	0.54	-0.53	0.13	-0.64	-1.09	-0.76	-0.50	0.62	1.01	-0.40	-0.63	-0.16	-0.77	-0.72	**-3.84**
2846	2,4,3,6,10,15,23,27,28,34,35,37,40,43,47,46,48,52,53,54	-0.46	0.40	-0.54	0.15	0.01	-0.73	-0.87	-0.92	-0.64	-0.50	0.30	0.05	-0.89	-0.63	-0.16	-0.77	-0.72	**-6.92**
2847	2,4,3,6,10,15,23,27,28,34,35,37,40,43,47,49,53,54	-1.39	0.66	-1.41	-0.95	0.86	-0.73	-1.83	-0.40	-0.51	-0.40	-0.80	0.05	-1.26	-0.63	-0.16	-0.77	-0.72	**-10.39**
2848	2,4,3,6,10,15,23,27,28,34,35,37,40,43,50,54	-1.49	0.14	-1.43	-1.07	0.80	-0.73	-1.59	-0.92	0.07	-0.35	-1.04	-0.90	-1.30	-0.63	-0.16	-0.77	-0.72	**-12.11**
2849	2,4,3,6,10,15,23,27,28,34,35,37,42,46,48,51	-0.27	-0.38	-0.22	0.46	-0.57	-0.73	-0.64	-1.09	-0.76	-0.53	0.58	1.01	-0.48	-0.63	-0.16	-0.77	-0.72	**-5.91**
2850	2,4,3,6,10,15,23,27,28,34,35,37,42,46,48,52,53,54	-0.60	-0.38	-0.58	0.07	-0.03	-1.59	-0.87	-0.92	-0.64	-0.53	0.26	0.05	-0.96	-0.63	-0.16	-0.77	-0.72	**-9.00**
2851	2,4,3,6,10,15,23,27,28,34,35,37,42,47,50,54	-1.48	-0.12	-1.42	-0.98	0.85	-0.73	-1.59	-0.92	0.07	-0.30	-1.02	-0.90	-1.30	-0.63	-0.16	-0.77	-0.72	**-12.13**
2852	2,4,3,6,10,15,23,27,28,34,35,37,42,49,53,54	-1.52	-0.38	-1.44	-1.03	0.82	-1.59	-1.83	-0.40	-0.51	-0.43	-0.84	0.05	-1.33	-0.63	-0.16	-0.77	-0.72	**-12.72**
2853	2,4,3,6,10,15,23,27,28,34,36,39,41,40,42,46,48,51	1.06	0.40	0.91	0.71	-1.19	-0.73	0.08	-0.95	-0.79	1.44	-0.48	1.01	0.57	-0.63	-0.16	-0.77	-0.72	**-0.25**
2854	2,4,3,6,10,15,23,27,28,34,36,39,41,40,42,46,48,52,53,54	0.74	0.40	0.55	0.32	-0.65	-1.59	-0.16	-0.77	-0.67	1.44	-0.80	0.05	0.08	-0.63	-0.16	-0.77	-0.72	**-3.34**
2855	2,4,3,6,10,15,23,27,28,34,36,39,41,40,42,47,50,54	-0.15	0.66	-0.30	-0.72	0.23	-0.73	-0.87	-0.77	0.04	1.67	-2.09	-0.90	-0.25	-0.63	-0.16	-0.77	-0.72	**-6.48**
2856	2,4,3,6,10,15,23,27,28,34,36,39,41,40,42,49,53,54	-0.19	0.40	-0.32	-0.78	0.20	-1.59	-1.11	-0.25	-0.54	1.54	-1.91	0.05	-0.29	-0.63	-0.16	-0.77	-0.72	**-7.06**
2857	2,4,3,6,10,15,23,27,28,34,36,39,41,43,47,46,48,51	1.06	0.66	0.91	0.79	-1.14	-0.73	0.08	-0.95	-0.79	1.47	-0.48	1.01	0.57	-0.63	-0.16	-0.77	-0.72	**0.18**
2858	2,4,3,6,10,15,23,27,28,34,36,39,41,43,47,46,48,52,53,54	0.74	0.66	0.55	0.40	-0.61	-1.59	-0.16	-0.77	-0.67	1.47	-0.80	0.05	0.09	-0.63	-0.16	-0.77	-0.72	**-2.91**
2859	2,4,3,6,10,15,23,27,28,34,36,39,41,43,47,49,53,54	-0.19	0.92	-0.32	-0.70	0.24	-1.59	-1.11	-0.25	-0.54	1.58	-1.90	0.05	-0.29	-0.63	-0.16	-0.77	-0.72	**-6.37**
2860	2,4,3,6,10,15,23,27,28,34,36,39,41,43,50,54	-0.29	0.40	-0.33	-0.81	0.18	-1.59	-0.87	-0.77	0.04	1.62	-2.14	-0.90	-0.33	-0.63	-0.16	-0.77	-0.72	**-8.09**
2861	2,4,3,6,10,15,23,27,28,34,36,39,44,55	-1.22	-0.90	0.01	-1.01	0.07	-2.02	-2.07	-0.95	-0.22	1.59	-2.30	-0.90	-0.39	-0.63	-0.16	-0.77	-0.72	**-12.57**
2862	2,4,3,6,10,15,23,27,28,34,36,39,45,55	0.48	0.14	0.86	0.01	-0.42	0.13	-0.87	-0.37	1.11	2.40	-1.59	-0.90	0.48	-0.63	-0.16	-0.77	-0.72	**-0.83**
2863	2,4,3,6,10,15,23,27,28,34,38,40,42,46,48,51	-0.23	-0.38	-0.22	0.43	0.15	-0.30	-0.64	-0.73	-0.44	-0.52	0.54	1.01	-0.47	-0.63	-0.16	-0.77	1.40	**-1.96**
2864	2,4,3,6,10,15,23,27,28,34,38,40,42,46,48,52,53,54	-0.56	-0.38	-0.58	0.04	0.68	-1.16	-0.87	-0.55	-0.32	-0.52	0.22	0.05	-0.95	-0.63	-0.16	-0.77	1.40	**-5.04**
2865	2,4,3,6,10,15,23,27,28,34,38,40,42,47,50,54	-1.44	-0.12	-1.43	-1.01	1.56	-0.30	-1.59	-0.55	0.39	-0.29	-1.06	-0.90	-1.29	-0.63	-0.16	-0.77	1.40	**-8.18**
2866	2,4,3,6,10,15,23,27,28,34,38,40,42,49,53,54	-1.48	-0.38	-1.45	-1.06	1.54	-1.16	-1.83	-0.03	-0.19	-0.42	-0.88	0.05	-1.33	-0.63	-0.16	-0.77	1.40	**-8.77**
2867	2,4,3,6,10,15,23,27,28,34,38,41,44,55	-0.97	-1.15	-0.70	-1.29	1.41	-1.59	-1.83	-0.73	0.14	-0.37	-0.59	-0.90	-0.80	-0.63	-0.16	-0.77	1.40	**-9.53**
2868	2,4,3,6,10,15,23,27,28,34,38,41,45,55	0.73	-0.12	0.14	-0.27	0.92	0.55	-0.64	-0.15	1.46	0.44	0.12	-0.90	0.08	-0.63	-0.16	-0.77	1.40	**2.21**
2869	2,4,3,6,10,15,23,27,28,34,38,43,47,46,48,51	-0.23	-0.64	-0.22	0.50	0.19	-0.30	-0.64	-0.73	-0.44	-0.49	0.55	1.01	-0.46	-0.63	-0.16	-0.77	1.40	**-2.05**
2870	2,4,3,6,10,15,23,27,28,34,38,43,47,46,48,52,53,54	-0.56	-0.64	-0.58	0.12	0.73	-1.16	-0.87	-0.55	-0.32	-0.49	0.23	0.05	-0.95	-0.63	-0.16	-0.77	1.40	**-5.13**
2871	2,4,3,6,10,15,23,27,28,34,38,43,47,49,53,54	-1.48	-0.38	-1.44	-0.98	1.58	-1.16	-1.83	-0.03	-0.19	-0.39	-0.87	0.05	-1.32	-0.63	-0.16	-0.77	1.40	**-8.60**
2872	2,4,3,6,10,15,23,27,28,34,38,43,50,54	-1.58	-0.90	-1.46	-1.10	1.51	-1.16	-1.59	-0.55	0.39	-0.34	-1.12	-0.90	-1.36	-0.63	-0.16	-0.77	1.40	**-10.32**
2873	2,4,3,6,10,16,18,19,22,24,29,36,35,37,40,41,44,55	0.76	0.14	0.51	-1.02	-0.13	-0.30	-0.64	-2.21	-0.18	-0.50	0.44	-0.90	0.97	2.17	-0.16	-0.77	-0.72	**-2.55**
2874	2,4,3,6,10,16,18,19,22,24,29,36,35,37,40,41,45,55	2.46	1.18	1.35	0.00	-0.62	1.84	0.56	-1.64	1.15	0.31	1.15	-0.90	1.84	2.17	-0.16	-0.77	-0.72	**9.19**
2875	2,4,3,6,10,16,18,19,22,24,29,36,35,37,40,43,47,46,48,51	1.50	1.18	0.98	0.77	-1.35	0.98	0.56	-2.21	-0.75	-0.62	1.58	1.01	1.30	2.17	-0.16	-0.77	-0.72	**5.45**
2876	2,4,3,6,10,16,18,19,22,24,29,36,35,37,40,43,47,46,48,52,53,54	1.18	1.18	0.63	0.39	-0.81	0.13	0.32	-2.04	-0.63	-0.62	1.26	0.05	0.82	2.17	-0.16	-0.77	-0.72	**2.36**
2877	2,4,3,6,10,16,18,19,22,24,29,36,35,37,40,43,47,49,53,54	0.25	1.44	-0.24	-0.71	0.04	0.13	-0.64	-1.51	-0.50	-0.52	0.15	0.05	0.44	2.17	-0.16	-0.77	-0.72	**-1.10**
2878	2,4,3,6,10,16,18,19,22,24,29,36,35,37,40,43,50,54	0.15	0.92	-0.26	-0.83	-0.02	0.13	-0.40	-2.04	0.08	-0.48	-0.09	-0.90	0.40	2.17	-0.16	-0.77	-0.72	**-2.82**
2879	2,4,3,6,10,16,18,19,22,24,29,36,35,37,42,46,48,51	1.37	0.40	0.95	0.69	-1.39	0.13	0.56	-2.21	-0.75	-0.66	1.54	1.01	1.23	2.17	-0.16	-0.77	-0.72	**3.38**
2880	2,4,3,6,10,16,18,19,22,24,29,36,35,37,42,46,48,52,53,54	1.05	0.40	0.59	0.31	-0.85	-0.73	0.32	-2.04	-0.63	-0.66	1.22	0.05	0.74	2.17	-0.16	-0.77	-0.72	**0.29**
2881	2,4,3,6,10,16,18,19,22,24,29,36,35,37,42,47,50,54	0.16	0.66	-0.26	-0.74	0.03	0.13	-0.40	-2.04	0.08	-0.43	-0.07	-0.90	0.41	2.17	-0.16	-0.77	-0.72	**-2.85**
2882	2,4,3,6,10,16,18,19,22,24,29,36,35,37,42,49,53,54	0.12	0.40	-0.28	-0.79	0.00	-0.73	-0.64	-1.51	-0.50	-0.55	0.12	0.05	0.37	2.17	-0.16	-0.77	-0.72	**-3.43**
2883	2,4,3,6,10,16,18,19,22,24,29,36,38,40,42,46,48,51	1.41	0.66	0.94	0.66	-0.67	0.55	0.56	-1.85	-0.43	-0.65	1.50	1.01	1.23	2.17	-0.16	-0.77	1.40	**7.59**
2884	2,4,3,6,10,16,18,19,22,24,29,36,38,40,42,46,48,52,53,54	1.09	0.66	0.59	0.28	-0.14	-0.30	0.32	-1.67	-0.30	-0.65	1.18	0.05	0.75	2.17	-0.16	-0.77	1.40	**4.50**
2885	2,4,3,6,10,16,18,19,22,24,29,36,38,40,42,47,50,54	0.20	0.92	-0.26	-0.77	0.74	0.55	-0.40	-1.67	0.40	-0.41	-0.11	-0.90	0.41	2.17	-0.16	-0.77	1.40	**1.36**
2886	2,4,3,6,10,16,18,19,22,24,29,36,38,40,42,49,53,54	0.16	0.66	-0.28	-0.82	0.72	-0.30	-0.64	-1.15	-0.18	-0.54	0.08	0.05	0.38	2.17	-0.16	-0.77	1.40	**0.78**
2887	2,4,3,6,10,16,18,19,22,24,29,36,38,41,44,55	0.67	-0.12	0.47	-1.05	0.59	-0.73	-0.64	-1.85	0.15	-0.49	0.37	-0.90	0.90	2.17	-0.16	-0.77	1.40	**0.02**
2888	2,4,3,6,10,16,18,19,22,24,29,36,38,41,45,55	2.37	0.92	1.31	-0.03	0.10	1.41	0.56	-1.27	1.47	0.32	1.07	-0.90	1.78	2.17	-0.16	-0.77	1.40	**11.75**
2889	2,4,3,6,10,16,18,19,22,24,29,36,38,43,47,46,48,51	1.41	0.40	0.95	0.74	-0.63	0.55	0.56	-1.85	-0.43	-0.61	1.50	1.01	1.24	2.17	-0.16	-0.77	1.40	**7.50**
2890	2,4,3,6,10,16,18,19,22,24,29,36,38,43,47,46,48,52,53,54	1.09	0.40	0.59	0.36	-0.09	-0.30	0.32	-1.67	-0.30	-0.61	1.18	0.05	0.75	2.17	-0.16	-0.77	1.40	**4.41**
2891	2,4,3,6,10,16,18,19,22,24,29,36,38,43,47,49,53,54	0.16	0.66	-0.28	-0.74	0.76	-0.30	-0.64	-1.15	-0.18	-0.51	0.08	0.05	0.38	2.17	-0.16	-0.77	1.40	**0.95**
2892	2,4,3,6,10,16,18,19,22,24,29,36,38,43,50,54	0.06	0.14	-0.30	-0.86	0.69	-0.30	-0.40	-1.67	0.40	-0.46	-0.16	-0.90	0.34	2.17	-0.16	-0.77	1.40	**-0.77**
2893	2,4,3,6,10,16,18,19,22,24,29,39,41,40,42,46,48,51	1.61	0.40	1.78	0.32	-2.01	-0.73	1.28	-2.07	-0.78	0.68	0.23	1.01	1.71	2.17	-0.16	-0.77	-0.72	**3.94**
2894	2,4,3,6,10,16,18,19,22,24,29,39,41,40,42,46,48,52,53,54	1.29	0.40	1.42	-0.07	-1.47	-1.59	1.04	-1.89	-0.66	0.68	-0.09	0.05	1.23	2.17	-0.16	-0.77	-0.72	**0.86**
2895	2,4,3,6,10,16,18,19,22,24,29,39,41,40,42,47,50,54	0.40	0.66	0.57	-1.11	-0.59	-0.73	0.32	-1.89	0.05	0.91	-1.38	-0.90	0.89	2.17	-0.16	-0.77	-0.72	**-2.28**
2896	2,4,3,6,10,16,18,19,22,24,29,39,41,40,42,49,53,54	0.36	0.40	0.55	-1.17	-0.62	-1.59	0.08	-1.37	-0.53	0.78	-1.19	0.05	0.86	2.17	-0.16	-0.77	-0.72	**-2.87**
2897	2,4,3,6,10,16,18,19,22,24,29,39,41,43,47,46,48,51	1.61	0.66	1.78	0.40	-1.97	-0.73	1.28	-2.07	-0.78	0.71	0.23	1.01	1.72	2.17	-0.16	-0.77	-0.72	**4.37**
2898	2,4,3,6,10,16,18,19,22,24,29,39,41,43,47,46,48,52,53,54	1.29	0.66	1.42	0.01	-1.43	-1.59	1.04	-1.89	-0.66	0.71	-0.08	0.05	1.23	2.17	-0.16	-0.77	-0.72	**1.28**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
2899	2,4,3,6,10,16,18,19,22,24,29,39,41,43,47,49,53,54	0.36	0.92	0.56	-1.09	-0.58	-1.59	0.08	-1.37	-0.53	0.81	-1.19	0.05	0.86	2.17	-0.16	-0.77	-0.72	**-2.18**
2900	2,4,3,6,10,16,18,19,22,24,29,39,41,43,50,54	0.26	0.40	0.54	-1.20	-0.64	-1.59	0.32	-1.89	0.05	0.86	-1.43	-0.90	0.82	2.17	-0.16	-0.77	-0.72	**-3.90**
2901	2,4,3,6,10,16,18,19,22,24,29,39,44,55	-0.67	-0.90	0.89	-1.40	-0.75	-2.02	-0.87	-2.07	-0.21	0.83	-1.58	-0.90	0.75	2.17	-0.16	-0.77	-0.72	**-8.38**
2902	2,4,3,6,10,16,18,19,22,24,29,39,45,55	1.03	0.14	1.73	-0.38	-1.24	0.13	0.32	-1.49	1.12	1.64	-0.88	-0.90	1.63	2.17	-0.16	-0.77	-0.72	**3.36**
2903	2,4,3,6,10,16,18,19,22,25,29,36,35,37,40,41,44,55	0.55	-0.12	0.45	-1.46	0.20	-0.30	-0.40	-2.19	-0.61	-0.43	0.08	-0.90	0.91	2.20	-0.16	-0.77	-0.72	**-3.68**
2904	2,4,3,6,10,16,18,19,22,25,29,36,35,37,40,41,45,55	2.25	0.92	1.29	-0.44	-0.29	1.84	0.80	-1.61	0.71	0.38	0.78	-0.90	1.78	2.20	-0.16	-0.77	-0.72	**8.06**
2905	2,4,3,6,10,16,18,19,22,25,29,36,35,37,40,43,47,46,48,51	1.29	0.92	0.92	0.34	-1.01	0.98	0.80	-2.19	-1.19	-0.55	1.21	1.01	1.24	2.20	-0.16	-0.77	-0.72	**4.32**
2906	2,4,3,6,10,16,18,19,22,25,29,36,35,37,40,43,47,46,48,52,53,54	0.96	0.92	0.57	-0.05	-0.48	0.13	0.56	-2.01	-1.07	-0.55	0.89	0.05	0.76	2.20	-0.16	-0.77	-0.72	**1.23**
2907	2,4,3,6,10,16,18,19,22,25,29,36,35,37,40,43,47,49,53,54	0.04	1.18	-0.30	-1.15	0.37	0.13	-0.40	-1.49	-0.94	-0.45	-0.21	0.05	0.39	2.20	-0.16	-0.77	-0.72	**-2.23**
2908	2,4,3,6,10,16,18,19,22,25,29,36,35,37,40,43,50,54	-0.06	0.66	-0.32	-1.26	0.31	0.13	-0.16	-2.01	-0.36	-0.41	-0.45	-0.90	0.34	2.20	-0.16	-0.77	-0.72	**-3.95**
2909	2,4,3,6,10,16,18,19,22,25,29,36,35,37,42,46,48,51	1.16	0.14	0.89	0.26	-1.06	0.13	0.80	-2.19	-1.19	-0.59	1.17	1.01	1.17	2.20	-0.16	-0.77	-0.72	**2.25**
2910	2,4,3,6,10,16,18,19,22,25,29,36,35,37,42,46,48,52,53,54	0.83	0.14	0.53	-0.13	-0.52	-0.73	0.56	-2.01	-1.07	-0.59	0.85	0.05	0.68	2.20	-0.16	-0.77	-0.72	**-0.84**
2911	2,4,3,6,10,16,18,19,22,25,29,36,35,37,42,47,50,54	-0.05	0.40	-0.32	-1.17	0.36	0.13	-0.16	-2.01	-0.36	-0.36	-0.43	-0.90	0.35	2.20	-0.16	-0.77	-0.72	**-3.98**
2912	2,4,3,6,10,16,18,19,22,25,29,36,35,37,42,49,53,54	-0.10	0.14	-0.34	-1.22	0.33	-0.73	-0.40	-1.49	-0.94	-0.48	-0.25	0.05	0.31	2.20	-0.16	-0.77	-0.72	**-4.56**
2913	2,4,3,6,10,16,18,19,22,25,29,36,38,40,42,46,48,51	1.20	0.40	0.89	0.23	-0.34	0.55	0.80	-1.82	-0.86	-0.58	1.13	1.01	1.18	2.20	-0.16	-0.77	1.40	**6.46**
2914	2,4,3,6,10,16,18,19,22,25,29,36,38,40,42,46,48,52,53,54	0.87	0.40	0.53	-0.16	0.20	-0.30	0.56	-1.64	-0.74	-0.58	0.81	0.05	0.69	2.20	-0.16	-0.77	1.40	**3.37**
2915	2,4,3,6,10,16,18,19,22,25,29,36,38,40,42,47,50,54	-0.01	0.66	-0.32	-1.20	1.08	0.55	-0.16	-1.64	-0.04	-0.34	-0.47	-0.90	0.36	2.20	-0.16	-0.77	1.40	**0.23**
2916	2,4,3,6,10,16,18,19,22,25,29,36,38,40,42,49,53,54	-0.06	0.40	-0.34	-1.26	1.05	-0.30	-0.40	-1.12	-0.62	-0.47	-0.29	0.05	0.32	2.20	-0.16	-0.77	1.40	**-0.35**
2917	2,4,3,6,10,16,18,19,22,25,29,36,38,41,44,55	0.45	-0.38	0.41	-1.49	0.92	-0.73	-0.40	-1.82	-0.29	-0.42	0.00	-0.90	0.84	2.20	-0.16	-0.77	1.40	**-1.12**
2918	2,4,3,6,10,16,18,19,22,25,29,36,38,41,45,55	2.15	0.66	1.25	-0.47	0.43	1.41	0.80	-1.25	1.03	0.39	0.71	-0.90	1.72	2.20	-0.16	-0.77	1.40	**10.62**
2919	2,4,3,6,10,16,18,19,22,25,29,36,38,43,47,46,48,51	1.20	0.14	0.89	0.31	-0.30	0.55	0.80	-1.82	-0.86	-0.54	1.14	1.01	1.18	2.20	-0.16	-0.77	1.40	**6.37**
2920	2,4,3,6,10,16,18,19,22,25,29,36,38,43,47,46,48,52,53,54	0.87	0.14	0.53	-0.08	0.24	-0.30	0.56	-1.64	-0.74	-0.54	0.82	0.05	0.70	2.20	-0.16	-0.77	1.40	**3.28**
2921	2,4,3,6,10,16,18,19,22,25,29,36,38,43,47,49,53,54	-0.06	0.40	-0.34	-1.18	1.09	-0.30	-0.40	-1.12	-0.62	-0.44	-0.28	0.05	0.32	2.20	-0.16	-0.77	1.40	**-0.18**
2922	2,4,3,6,10,16,18,19,22,25,29,36,38,43,50,54	-0.16	-0.12	-0.35	-1.29	1.03	-0.30	-0.16	-1.64	-0.04	-0.40	-0.53	-0.90	0.28	2.20	-0.16	-0.77	1.40	**-1.90**
2923	2,4,3,6,10,16,18,19,22,25,29,39,41,40,42,46,48,51	1.40	0.14	1.72	-0.11	-1.68	-0.73	1.52	-2.05	-1.22	0.75	-0.14	1.01	1.66	2.20	-0.16	-0.77	-0.72	**2.81**
2924	2,4,3,6,10,16,18,19,22,25,29,39,41,40,42,46,48,52,53,54	1.07	0.14	1.36	-0.50	-1.14	-1.59	1.28	-1.87	-1.10	0.75	-0.45	0.05	1.17	2.20	-0.16	-0.77	-0.72	**-0.28**
2925	2,4,3,6,10,16,18,19,22,25,29,39,41,40,42,47,50,54	0.19	0.40	0.52	-1.55	-0.26	-0.73	0.56	-1.87	-0.39	0.98	-1.74	-0.90	0.83	2.20	-0.16	-0.77	-0.72	**-3.42**
2926	2,4,3,6,10,16,18,19,22,25,29,39,41,40,42,49,53,54	0.14	0.14	0.50	-1.60	-0.29	-1.59	0.32	-1.35	-0.97	0.85	-1.56	0.05	0.80	2.20	-0.16	-0.77	-0.72	**-4.00**
2927	2,4,3,6,10,16,18,19,22,25,29,39,41,43,47,46,48,51	1.40	0.40	1.72	-0.03	-1.63	-0.73	1.52	-2.05	-1.22	0.78	-0.13	1.01	1.66	2.20	-0.16	-0.77	-0.72	**3.24**
2928	2,4,3,6,10,16,18,19,22,25,29,39,41,43,47,46,48,52,53,54	1.07	0.40	1.36	-0.42	-1.10	-1.59	1.28	-1.87	-1.10	0.78	-0.45	0.05	1.17	2.20	-0.16	-0.77	-0.72	**0.15**
2929	2,4,3,6,10,16,18,19,22,25,29,39,41,43,47,49,53,54	0.15	0.66	0.50	-1.52	-0.24	-1.59	0.32	-1.35	-0.97	0.88	-1.55	0.05	0.80	2.20	-0.16	-0.77	-0.72	**-3.31**
2930	2,4,3,6,10,16,18,19,22,25,29,39,41,43,50,54	0.05	0.14	0.48	-1.64	-0.31	-1.59	0.56	-1.87	-0.39	0.93	-1.80	-0.90	0.76	2.20	-0.16	-0.77	-0.72	**-5.03**
2931	2,4,3,6,10,16,18,19,22,25,29,39,44,55	-0.89	-1.15	0.83	-1.83	-0.41	-2.02	-0.64	-2.05	-0.64	0.90	-1.95	-0.90	0.70	2.20	-0.16	-0.77	-0.72	**-9.51**
2932	2,4,3,6,10,16,18,19,22,25,29,39,45,55	0.81	-0.12	1.67	-0.81	-0.91	0.13	0.56	-1.47	0.68	1.71	-1.24	-0.90	1.57	2.20	-0.16	-0.77	-0.72	**2.23**
2933	2,4,3,6,10,16,18,21,27,26,30,32,46,47,50,54	1.08	1.70	0.27	-0.80	0.53	1.84	1.28	-2.27	1.47	-0.55	1.27	-0.90	0.95	0.92	-0.16	1.14	0.98	**8.73**
2934	2,4,3,6,10,16,18,21,27,26,30,32,46,49,53,54	1.04	1.44	0.25	-0.85	0.50	0.98	1.04	-1.75	0.88	-0.68	1.43	0.05	0.91	0.92	-0.16	1.14	0.98	**8.13**
2935	2,4,3,6,10,16,18,21,27,26,30,32,48,51	0.54	0.92	1.00	-1.44	-1.45	1.84	1.75	-2.45	0.64	-0.78	0.93	-0.90	1.42	0.92	-0.16	1.14	0.98	**4.88**
2936	2,4,3,6,10,16,18,21,27,26,30,32,48,52,53,54	0.21	0.92	0.64	-1.83	-0.92	0.98	1.52	-2.27	0.76	-0.78	0.61	-1.85	0.93	0.92	-0.16	1.14	0.98	**1.79**
2937	2,4,3,6,10,16,18,21,27,26,31,34,35,37,40,41,44,55	-0.74	0.40	-0.63	-0.78	0.80	-0.30	-1.35	-1.86	-0.14	-1.17	0.47	-0.90	-0.59	0.19	-0.16	1.14	-0.72	**-6.34**
2938	2,4,3,6,10,16,18,21,27,26,31,34,35,37,40,41,45,55	0.96	1.44	0.21	0.24	0.30	1.84	-0.16	-1.28	1.18	-0.36	1.18	-0.90	0.29	0.19	-0.16	1.14	-0.72	**5.40**
2939	2,4,3,6,10,16,18,21,27,26,31,34,35,37,40,43,47,46,48,51	0.00	1.44	-0.15	1.02	-0.42	0.98	-0.16	-1.86	-0.71	-1.29	1.60	1.01	-0.25	0.19	-0.16	1.14	-0.72	**1.66**
2940	2,4,3,6,10,16,18,21,27,26,31,34,35,37,40,43,47,46,48,52,53,54	-0.32	1.44	-0.51	0.63	0.12	0.13	-0.40	-1.68	-0.59	-1.29	1.28	0.05	-0.74	0.19	-0.16	1.14	-0.72	**-1.42**
2941	2,4,3,6,10,16,18,21,27,26,31,34,35,37,40,43,47,49,53,54	-1.25	1.70	-1.37	-0.47	0.97	0.13	-1.35	-1.16	-0.47	-1.19	0.18	0.05	-1.11	0.19	-0.16	1.14	-0.72	**-4.89**
2942	2,4,3,6,10,16,18,21,27,26,31,34,35,37,40,43,50,54	-1.35	1.18	-1.39	-0.59	0.90	0.13	-1.11	-1.68	0.12	-1.14	-0.06	-0.90	-1.15	0.19	-0.16	1.14	-0.72	**-6.61**
2943	2,4,3,6,10,16,18,21,27,26,31,34,35,37,42,46,48,51	-0.13	0.66	-0.19	0.94	-0.47	0.13	-0.16	-1.86	-0.71	-1.32	1.56	1.01	-0.33	0.19	-0.16	1.14	-0.72	**-0.41**
2944	2,4,3,6,10,16,18,21,27,26,31,34,35,37,42,46,48,52,53,54	-0.45	0.66	-0.54	0.55	0.07	-0.73	-0.40	-1.68	-0.59	-1.32	1.24	0.05	-0.81	0.19	-0.16	1.14	-0.72	**-3.50**
2945	2,4,3,6,10,16,18,21,27,26,31,34,35,37,42,47,50,54	-1.34	0.92	-1.39	-0.50	0.95	0.13	-1.11	-1.68	0.12	-1.09	-0.04	-0.90	-1.15	0.19	-0.16	1.14	-0.72	**-6.64**
2946	2,4,3,6,10,16,18,21,27,26,31,34,35,37,42,49,53,54	-1.38	0.66	-1.41	-0.55	0.92	-0.73	-1.35	-1.16	-0.47	-1.22	0.14	0.05	-1.18	0.19	-0.16	1.14	-0.72	**-7.22**
2947	2,4,3,6,10,16,18,21,27,26,31,34,36,39,41,40,42,46,48,51	1.21	1.44	0.94	1.19	-1.08	0.13	0.56	-1.71	-0.74	0.65	0.50	1.01	0.72	0.19	-0.16	1.14	-0.72	**5.25**
2948	2,4,3,6,10,16,18,21,27,26,31,34,36,39,41,40,42,46,48,52,53,54	0.88	1.44	0.58	0.81	-0.55	-0.73	0.32	-1.53	-0.62	0.65	0.18	0.05	0.23	0.19	-0.16	1.14	-0.72	**2.16**
2949	2,4,3,6,10,16,18,21,27,26,31,34,36,39,41,40,42,47,50,54	-0.01	1.70	-0.26	-0.24	0.33	0.13	-0.40	-1.53	0.09	0.88	-1.11	-0.90	-0.10	0.19	-0.16	1.14	-0.72	**-0.98**
2950	2,4,3,6,10,16,18,21,27,26,31,34,36,39,41,40,42,49,53,54	-0.05	1.44	-0.28	-0.29	0.30	-0.73	-0.64	-1.01	-0.50	0.75	-0.93	0.05	-0.14	0.19	-0.16	1.14	-0.72	**-1.57**
2951	2,4,3,6,10,16,18,21,27,26,31,34,36,39,41,43,47,46,48,51	1.21	1.70	0.94	1.27	-1.04	0.13	0.56	-1.71	-0.74	0.68	0.50	1.01	0.72	0.19	-0.16	1.14	-0.72	**5.67**
2952	2,4,3,6,10,16,18,21,27,26,31,34,36,39,41,43,47,46,48,52,53,54	0.88	1.70	0.59	0.89	-0.50	-0.73	0.32	-1.53	-0.62	0.68	0.18	0.05	0.24	0.19	-0.16	1.14	-0.72	**2.59**
2953	2,4,3,6,10,16,18,21,27,26,31,34,36,39,41,43,47,49,53,54	-0.05	1.96	-0.28	-0.21	0.35	-0.73	-0.64	-1.01	-0.50	0.79	-0.92	0.05	-0.13	0.19	-0.16	1.14	-0.72	**-0.88**
2954	2,4,3,6,10,16,18,21,27,26,31,34,36,39,41,43,50,54	-0.15	1.44	-0.30	-0.33	0.28	-0.73	-0.40	-1.53	0.09	0.83	-1.16	-0.90	-0.18	0.19	-0.16	1.14	-0.72	**-2.60**
2955	2,4,3,6,10,16,18,21,27,26,31,34,36,39,44,55	-1.08	0.14	0.05	-0.52	0.18	-1.16	-1.59	-1.71	-0.17	0.81	-1.32	-0.90	-0.24	0.19	-0.16	1.14	-0.72	**-7.07**
2956	2,4,3,6,10,16,18,21,27,26,31,34,36,39,45,55	0.62	1.18	0.89	0.49	-0.31	0.98	-0.40	-1.14	1.15	1.62	-0.61	-0.90	0.63	0.19	-0.16	1.14	-0.72	**4.67**
2957	2,4,3,6,10,16,18,21,27,26,31,34,38,40,42,46,48,51	-0.09	0.66	-0.19	0.91	0.25	0.55	-0.16	-1.49	-0.39	-1.31	1.52	1.01	-0.32	0.19	-0.16	1.14	1.40	**3.54**
2958	2,4,3,6,10,16,18,21,27,26,31,34,38,40,42,46,48,52,53,54	-0.41	0.66	-0.54	0.52	0.79	-0.30	-0.40	-1.31	-0.27	-1.31	1.21	0.05	-0.80	0.19	-0.16	1.14	1.40	**0.46**
2959	2,4,3,6,10,16,18,21,27,26,31,34,38,40,42,47,50,54	-1.30	0.92	-1.39	-0.53	1.67	0.55	-1.11	-1.31	0.44	-1.08	-0.08	-0.90	-1.14	0.19	-0.16	1.14	1.40	**-2.68**
2960	2,4,3,6,10,16,18,21,27,26,31,34,38,40,42,49,53,54	-1.34	0.66	-1.41	-0.58	1.64	-0.30	-1.35	-0.79	-0.14	-1.21	0.10	0.05	-1.17	0.19	-0.16	1.14	1.40	**-3.27**
2961	2,4,3,6,10,16,18,21,27,26,31,34,38,41,44,55	-0.83	-0.12	-0.66	-0.81	1.51	-0.73	-1.35	-1.49	0.18	-1.16	0.39	-0.90	-0.65	0.19	-0.16	1.14	1.40	**-4.03**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
2962	2,4,3,6,10,16,18,21,27,26,31,34,38,41,45,55	0.87	0.92	0.18	0.21	1.02	1.41	-0.16	-0.91	1.51	-0.35	1.10	-0.90	0.23	0.19	-0.16	1.14	1.40	**7.71**
2963	2,4,3,6,10,16,18,21,27,26,31,34,38,43,47,46,48,51	-0.09	0.40	-0.19	0.99	0.30	0.55	-0.16	-1.49	-0.39	-1.28	1.53	1.01	-0.31	0.19	-0.16	1.14	1.40	**3.45**
2964	2,4,3,6,10,16,18,21,27,26,31,34,38,43,47,46,48,52,53,54	-0.41	0.40	-0.54	0.60	0.83	-0.30	-0.40	-1.31	-0.27	-1.28	1.21	0.05	-0.80	0.19	-0.16	1.14	1.40	**0.37**
2965	2,4,3,6,10,16,18,21,27,26,31,34,38,43,47,49,53,54	-1.34	0.66	-1.41	-0.50	1.68	-0.30	-1.35	-0.79	-0.14	-1.17	0.11	0.05	-1.17	0.19	-0.16	1.14	1.40	**-3.10**
2966	2,4,3,6,10,16,18,21,27,26,31,34,38,43,50,54	-1.44	0.14	-1.43	-0.62	1.62	-0.30	-1.11	-1.31	0.44	-1.13	-0.14	-0.90	-1.21	0.19	-0.16	1.14	1.40	**-4.82**
2967	2,4,3,6,10,16,18,21,27,26,33,37,40,41,44,55	-0.81	-0.64	-0.66	-0.80	0.44	-0.30	-1.11	-1.86	-0.44	-1.15	0.42	-0.90	-0.61	0.19	-0.16	1.14	-0.72	**-7.97**
2968	2,4,3,6,10,16,18,21,27,26,33,37,40,41,45,55	0.90	0.40	0.18	0.22	-0.05	1.84	0.08	-1.28	0.88	-0.34	1.12	-0.90	0.27	0.19	-0.16	1.14	-0.72	**3.77**
2969	2,4,3,6,10,16,18,21,27,26,33,37,40,43,47,46,48,51	-0.06	0.40	-0.18	0.99	-0.78	0.98	0.08	-1.86	-1.01	-1.27	1.55	1.01	-0.27	0.19	-0.16	1.14	-0.72	**0.03**
2970	2,4,3,6,10,16,18,21,27,26,33,37,40,43,47,46,48,52,53,54	-0.39	0.40	-0.54	0.61	-0.24	0.13	-0.16	-1.68	-0.89	-1.27	1.23	0.05	-0.76	0.19	-0.16	1.14	-0.72	**-3.06**
2971	2,4,3,6,10,16,18,21,27,26,33,37,40,43,47,49,53,54	-1.32	0.66	-1.41	-0.49	0.61	0.13	-1.11	-1.16	-0.77	-1.17	0.12	0.05	-1.13	0.19	-0.16	1.14	-0.72	**-6.52**
2972	2,4,3,6,10,16,18,21,27,26,33,37,40,43,50,54	-1.41	0.14	-1.42	-0.61	0.54	0.13	-0.87	-1.68	-0.19	-1.13	-0.12	-0.90	-1.17	0.19	-0.16	1.14	-0.72	**-8.24**
2973	2,4,3,6,10,16,18,21,27,26,33,37,42,46,48,51	-0.19	-0.38	-0.22	0.92	-0.82	0.13	0.08	-1.86	-1.01	-1.31	1.51	1.01	-0.35	0.19	-0.16	1.14	-0.72	**-2.05**
2974	2,4,3,6,10,16,18,21,27,26,33,37,42,46,48,52,53,54	-0.52	-0.38	-0.58	0.53	-0.29	-0.73	-0.16	-1.68	-0.89	-1.31	1.19	0.05	-0.83	0.19	-0.16	1.14	-0.72	**-5.13**
2975	2,4,3,6,10,16,18,21,27,26,33,37,42,47,50,54	-1.40	-0.12	-1.42	-0.52	0.59	0.13	-0.87	-1.68	-0.19	-1.07	-0.09	-0.90	-1.17	0.19	-0.16	1.14	-0.72	**-8.27**
2976	2,4,3,6,10,16,18,21,27,26,33,37,42,49,53,54	-1.45	-0.38	-1.44	-0.57	0.56	-0.73	-1.11	-1.16	-0.77	-1.20	0.09	0.05	-1.20	0.19	-0.16	1.14	-0.72	**-8.86**
2977	2,4,3,6,10,16,18,21,28,31,30,32,46,47,50,54	1.01	1.18	0.20	-0.77	0.74	1.84	1.28	-2.27	1.11	-0.30	1.02	-0.90	0.85	0.92	-0.16	-0.77	0.98	**5.94**
2978	2,4,3,6,10,16,18,21,28,31,30,32,46,49,53,54	0.97	0.92	0.18	-0.82	0.71	0.98	1.04	-1.75	0.53	-0.43	1.18	0.05	0.82	0.92	-0.16	-0.77	0.98	**5.33**
2979	2,4,3,6,10,16,18,21,28,31,30,32,48,51	0.47	0.40	0.93	-1.42	-1.25	1.84	1.75	-2.45	0.28	-0.54	0.67	-0.90	1.32	0.92	-0.16	-0.77	0.98	**2.08**
2980	2,4,3,6,10,16,18,21,28,31,30,32,48,52,53,54	0.14	0.40	0.57	-1.80	-0.71	0.98	1.52	-2.27	0.41	-0.54	0.35	-1.85	0.84	0.92	-0.16	-0.77	0.98	**-1.01**
2981	2,4,3,6,10,16,18,21,28,31,33,37,40,41,44,55	-0.88	-0.64	-0.73	-0.77	0.64	-0.30	-1.11	-1.86	-0.79	-0.91	0.16	-0.90	-0.70	0.19	-0.16	-0.77	-0.72	**-10.25**
2982	2,4,3,6,10,16,18,21,28,31,33,37,40,41,45,55	0.82	0.40	0.11	0.24	0.15	1.84	0.08	-1.28	0.53	-0.10	0.86	-0.90	0.18	0.19	-0.16	-0.77	-0.72	**1.49**
2983	2,4,3,6,10,16,18,21,28,31,33,37,40,43,47,46,48,51	-0.13	0.40	-0.25	1.02	-0.57	0.98	0.08	-1.86	-1.37	-1.03	1.29	1.01	-0.36	0.19	-0.16	-0.77	-0.72	**-2.25**
2984	2,4,3,6,10,16,18,21,28,31,33,37,40,43,47,46,48,52,53,54	-0.46	0.40	-0.61	0.64	-0.04	0.13	-0.16	-1.68	-1.25	-1.03	0.97	0.05	-0.85	0.19	-0.16	-0.77	-0.72	**-5.34**
2985	2,4,3,6,10,16,18,21,28,31,33,37,40,43,47,49,53,54	-1.39	0.66	-1.48	-0.46	0.81	0.13	-1.11	-1.16	-1.12	-0.92	-0.13	0.05	-1.22	0.19	-0.16	-0.77	-0.72	**-8.81**
2986	2,4,3,6,10,16,18,21,28,31,33,37,40,43,50,54	-1.49	0.14	-1.49	-0.58	0.75	0.13	-0.87	-1.68	-0.54	-0.88	-0.38	-0.90	-1.26	0.19	-0.16	-0.77	-0.72	**-10.52**
2987	2,4,3,6,10,16,18,21,28,31,33,37,42,46,48,51	-0.27	-0.38	-0.29	0.94	-0.62	0.13	0.08	-1.86	-1.37	-1.06	1.25	1.01	-0.44	0.19	-0.16	-0.77	-0.72	**-4.33**
2988	2,4,3,6,10,16,18,21,28,31,33,37,42,46,48,52,53,54	-0.59	-0.38	-0.65	0.56	-0.08	-0.73	-0.16	-1.68	-1.25	-1.06	0.93	0.05	-0.92	0.19	-0.16	-0.77	-0.72	**-7.41**
2989	2,4,3,6,10,16,18,21,28,31,33,37,42,47,50,54	-1.48	-0.12	-1.49	-0.49	0.80	0.13	-0.87	-1.68	-0.54	-0.83	-0.35	-0.90	-1.26	0.19	-0.16	-0.77	-0.72	**-10.55**
2990	2,4,3,6,10,16,18,21,28,31,33,37,42,49,53,54	-1.52	-0.38	-1.51	-0.54	0.77	-0.73	-1.11	-1.16	-1.12	-0.96	-0.17	0.05	-1.30	0.19	-0.16	-0.77	-0.72	**-11.14**
2991	2,4,3,6,10,16,18,21,28,34,35,37,40,41,44,55	-0.91	-0.64	-0.72	-0.75	1.00	-0.30	-1.35	-1.86	-0.49	-0.95	0.13	-0.90	-0.75	0.19	-0.16	-0.77	-0.72	**-9.94**
2992	2,4,3,6,10,16,18,21,28,34,35,37,40,41,45,55	0.79	0.40	0.12	0.27	0.51	1.84	-0.16	-1.28	0.83	-0.14	0.84	-0.90	0.13	0.19	-0.16	-0.77	-0.72	**1.79**
2993	2,4,3,6,10,16,18,21,28,34,35,37,40,43,47,46,48,51	-0.16	0.40	-0.25	1.04	-0.22	0.98	-0.16	-1.86	-1.07	-1.07	1.26	1.01	-0.41	0.19	-0.16	-0.77	-0.72	**-1.95**
2994	2,4,3,6,10,16,18,21,28,34,35,37,40,43,47,46,48,52,53,54	-0.49	0.40	-0.60	0.66	0.32	0.13	-0.40	-1.68	-0.94	-1.07	0.95	0.05	-0.89	0.19	-0.16	-0.77	-0.72	**-5.03**
2995	2,4,3,6,10,16,18,21,28,34,35,37,40,43,47,49,53,54	-1.42	0.66	-1.47	-0.44	1.17	0.13	-1.35	-1.16	-0.82	-0.97	-0.16	0.05	-1.27	0.19	-0.16	-0.77	-0.72	**-8.50**
2996	2,4,3,6,10,16,18,21,28,34,35,37,40,43,50,54	-1.52	0.14	-1.49	-0.56	1.11	0.13	-1.11	-1.68	-0.24	-0.92	-0.40	-0.90	-1.31	0.19	-0.16	-0.77	-0.72	**-10.22**
2997	2,4,3,6,10,16,18,21,28,34,35,37,42,46,48,51	-0.29	-0.38	-0.28	0.96	-0.26	0.13	-0.16	-1.86	-1.07	-1.10	1.23	1.01	-0.48	0.19	-0.16	-0.77	-0.72	**-4.02**
2998	2,4,3,6,10,16,18,21,28,34,35,37,42,46,48,52,53,54	-0.62	-0.38	-0.64	0.58	0.28	-0.73	-0.40	-1.68	-0.94	-1.10	0.91	0.05	-0.97	0.19	-0.16	-0.77	-0.72	**-7.10**
2999	2,4,3,6,10,16,18,21,28,34,35,37,42,47,50,54	-1.51	-0.12	-1.49	-0.47	1.16	0.13	-1.11	-1.68	-0.24	-0.87	-0.38	-0.90	-1.30	0.19	-0.16	-0.77	-0.72	**-10.24**
3000	2,4,3,6,10,16,18,21,28,34,35,37,42,49,53,54	-1.55	-0.38	-1.51	-0.52	1.13	-0.73	-1.35	-1.16	-0.82	-1.00	-0.20	0.05	-1.34	0.19	-0.16	-0.77	-0.72	**-10.83**
3001	2,4,3,6,10,16,18,21,28,34,36,39,41,40,42,46,48,51	1.04	0.40	0.84	1.22	-0.88	0.13	0.56	-1.71	-1.10	0.87	0.16	1.01	0.56	0.19	-0.16	-0.77	-0.72	**1.64**
3002	2,4,3,6,10,16,18,21,28,34,36,39,41,40,42,46,48,52,53,54	0.71	0.40	0.49	0.83	-0.34	-0.73	0.32	-1.53	-0.97	0.87	-0.16	0.05	0.07	0.19	-0.16	-0.77	-0.72	**-1.45**
3003	2,4,3,6,10,16,18,21,28,34,36,39,41,40,42,47,50,54	-0.17	0.66	-0.36	-0.22	0.54	0.13	-0.40	-1.53	-0.27	1.10	-1.45	-0.90	-0.26	0.19	-0.16	-0.77	-0.72	**-4.59**
3004	2,4,3,6,10,16,18,21,28,34,36,39,41,40,42,49,53,54	-0.22	0.40	-0.38	-0.27	0.51	-0.73	-0.64	-1.01	-0.85	0.97	-1.26	0.05	-0.30	0.19	-0.16	-0.77	-0.72	**-5.17**
3005	2,4,3,6,10,16,18,21,28,34,36,39,41,43,47,46,48,51	1.04	0.66	0.85	1.30	-0.83	0.13	0.56	-1.71	-1.10	0.90	0.17	1.01	0.56	0.19	-0.16	-0.77	-0.72	**2.07**
3006	2,4,3,6,10,16,18,21,28,34,36,39,41,43,47,46,48,52,53,54	0.71	0.66	0.49	0.91	-0.30	-0.73	0.32	-1.53	-0.97	0.90	-0.15	0.05	0.08	0.19	-0.16	-0.77	-0.72	**-1.02**
3007	2,4,3,6,10,16,18,21,28,34,36,39,41,43,47,49,53,54	-0.21	0.92	-0.38	-0.19	0.55	-0.73	-0.64	-1.01	-0.85	1.01	-1.26	0.05	-0.29	0.19	-0.16	-0.77	-0.72	**-4.48**
3008	2,4,3,6,10,16,18,21,28,34,36,39,41,43,50,54	-0.31	0.40	-0.40	-0.31	0.49	-0.73	-0.40	-1.53	-0.27	1.05	-1.50	-0.90	-0.34	0.19	-0.16	-0.77	-0.72	**-6.20**
3009	2,4,3,6,10,16,18,21,28,34,36,39,44,55	-1.25	-0.90	-0.05	-0.50	0.38	-1.16	-1.59	-1.71	-0.52	1.03	-1.65	-0.90	-0.40	0.19	-0.16	-0.77	-0.72	**-10.68**
3010	2,4,3,6,10,16,18,21,28,34,36,39,45,55	0.45	0.14	0.79	0.52	-0.11	0.98	-0.40	-1.14	0.80	1.84	-0.94	-0.90	0.48	0.19	-0.16	-0.77	-0.72	**1.06**
3011	2,4,3,6,10,16,18,21,28,34,38,40,42,46,48,51	-0.26	-0.38	-0.28	0.93	0.46	0.55	-0.16	-1.49	-0.74	-1.09	1.19	1.01	-0.48	0.19	-0.16	-0.77	1.40	**-0.06**
3012	2,4,3,6,10,16,18,21,28,34,38,40,42,46,48,52,53,54	-0.58	-0.38	-0.64	0.55	0.99	-0.30	-0.40	-1.31	-0.62	-1.09	0.87	0.05	-0.96	0.19	-0.16	-0.77	1.40	**-3.15**
3013	2,4,3,6,10,16,18,21,28,34,38,40,42,47,50,54	-1.47	-0.12	-1.49	-0.50	1.87	0.55	-1.11	-1.31	0.09	-0.86	-0.42	-0.90	-1.30	0.19	-0.16	-0.77	1.40	**-6.29**
3014	2,4,3,6,10,16,18,21,28,34,38,40,42,49,53,54	-1.51	-0.38	-1.51	-0.55	1.85	-0.30	-1.35	-0.79	-0.50	-0.99	-0.23	0.05	-1.33	0.19	-0.16	-0.77	1.40	**-6.88**
3015	2,4,3,6,10,16,18,21,28,34,38,41,44,55	-1.00	-1.15	-0.76	-0.78	1.72	-0.73	-1.35	-1.49	-0.17	-0.94	0.06	-0.90	-0.81	0.19	-0.16	-0.77	1.40	**-7.64**
3016	2,4,3,6,10,16,18,21,28,34,38,41,45,55	0.70	-0.12	0.08	0.24	1.23	1.41	-0.16	-0.91	1.15	-0.13	0.76	-0.90	0.07	0.19	-0.16	-0.77	1.40	**4.10**
3017	2,4,3,6,10,16,18,21,28,34,38,43,47,46,48,51	-0.25	-0.64	-0.28	1.01	0.50	0.55	-0.16	-1.49	-0.74	-1.06	1.19	1.01	-0.47	0.19	-0.16	-0.77	1.40	**-0.16**
3018	2,4,3,6,10,16,18,21,28,34,38,43,47,46,48,52,53,54	-0.58	-0.64	-0.64	0.63	1.04	-0.30	-0.40	-1.31	-0.62	-1.06	0.87	0.05	-0.96	0.19	-0.16	-0.77	1.40	**-3.24**
3019	2,4,3,6,10,16,18,21,28,34,38,43,47,49,53,54	-1.51	-0.38	-1.51	-0.47	1.89	-0.30	-1.35	-0.79	-0.50	-0.95	-0.23	0.05	-1.33	0.19	-0.16	-0.77	1.40	**-6.71**
3020	2,4,3,6,10,16,18,21,28,34,38,43,50,54	-1.61	-0.90	-1.53	-0.59	1.82	-0.30	-1.11	-1.31	0.09	-0.91	-0.47	-0.90	-1.37	0.19	-0.16	-0.77	1.40	**-8.43**
3021	2,4,3,6,10,16,20,23,26,30,32,46,47,50,54	1.00	0.66	0.10	-0.55	0.50	0.98	0.80	-1.58	2.00	-0.11	0.83	-0.90	0.62	0.82	-0.16	1.14	0.98	**7.12**
3022	2,4,3,6,10,16,20,23,26,30,32,46,49,53,54	0.95	0.40	0.08	-0.60	0.47	0.13	0.56	-1.06	1.42	-0.23	0.99	0.05	0.58	0.82	-0.16	1.14	0.98	**6.51**
3023	2,4,3,6,10,16,20,23,26,30,32,48,51	0.45	-0.12	0.83	-1.19	-1.49	0.98	1.28	-1.76	1.17	-0.34	0.48	-0.90	1.09	0.82	-0.16	1.14	0.98	**3.27**
3024	2,4,3,6,10,16,20,23,26,30,32,48,52,53,54	0.13	-0.12	0.48	-1.58	-0.95	0.13	1.04	-1.58	1.30	-0.34	0.16	-1.85	0.61	0.82	-0.16	1.14	0.98	**0.18**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
3025	2,4,3,6,10,16,20,23,26,31,34,35,37,40,41,44,55	-0.83	-0.64	-0.79	-0.53	0.76	-1.16	-1.83	-1.16	0.40	-0.72	0.02	-0.90	-0.91	0.10	-0.16	1.14	-0.72	**-7.95**
3026	2,4,3,6,10,16,20,23,26,31,34,35,37,40,41,45,55	0.87	0.40	0.05	0.49	0.27	0.98	-0.64	-0.59	1.72	0.09	0.73	-0.90	-0.04	0.10	-0.16	1.14	-0.72	**3.79**
3027	2,4,3,6,10,16,20,23,26,31,34,35,37,40,43,47,46,48,51	-0.08	0.40	-0.31	1.26	-0.46	0.13	-0.64	-1.16	-0.18	-0.85	1.15	1.01	-0.58	0.10	-0.16	1.14	-0.72	**0.05**
3028	2,4,3,6,10,16,20,23,26,31,34,35,37,40,43,47,46,48,52,53,54	-0.41	0.40	-0.67	0.88	0.08	-0.73	-0.87	-0.99	-0.05	-0.85	0.84	0.05	-1.06	0.10	-0.16	1.14	-0.72	**-3.04**
3029	2,4,3,6,10,16,20,23,26,31,34,35,37,40,43,47,49,53,54	-1.34	0.66	-1.54	-0.22	0.93	-0.73	-1.83	-0.47	0.07	-0.74	-0.27	0.05	-1.43	0.10	-0.16	1.14	-0.72	**-6.50**
3030	2,4,3,6,10,16,20,23,26,31,34,35,37,40,43,50,54	-1.44	0.14	-1.56	-0.34	0.87	-0.73	-1.59	-0.99	0.65	-0.70	-0.51	-0.90	-1.48	0.10	-0.16	1.14	-0.72	**-8.22**
3031	2,4,3,6,10,16,20,23,26,31,34,35,37,42,46,48,51	-0.22	-0.38	-0.35	1.18	-0.50	-0.73	-0.64	-1.16	-0.18	-0.88	1.12	1.01	-0.65	0.10	-0.16	1.14	-0.72	**-2.02**
3032	2,4,3,6,10,16,20,23,26,31,34,35,37,42,46,48,52,53,54	-0.54	-0.38	-0.71	0.80	0.04	-1.59	-0.87	-0.99	-0.05	-0.88	0.80	0.05	-1.14	0.10	-0.16	1.14	-0.72	**-5.11**
3033	2,4,3,6,10,16,20,23,26,31,34,35,37,42,47,50,54	-1.43	-0.12	-1.56	-0.25	0.92	-0.73	-1.59	-0.99	0.65	-0.65	-0.49	-0.90	-1.47	0.10	-0.16	1.14	-0.72	**-8.25**
3034	2,4,3,6,10,16,20,23,26,31,34,35,37,42,49,53,54	-1.47	-0.38	-1.57	-0.30	0.89	-1.59	-1.83	-0.47	0.07	-0.78	-0.30	0.05	-1.51	0.10	-0.16	1.14	-0.72	**-8.84**
3035	2,4,3,6,10,16,20,23,26,31,34,36,39,41,40,42,46,48,51	1.12	0.40	0.78	1.44	-1.12	-0.73	0.08	-1.02	-0.21	1.09	0.05	1.01	0.39	0.10	-0.16	1.14	-0.72	**3.63**
3036	2,4,3,6,10,16,20,23,26,31,34,36,39,41,40,42,46,48,52,53,54	0.79	0.40	0.42	1.05	-0.58	-1.59	-0.16	-0.84	-0.08	1.09	-0.27	0.05	-0.09	0.10	-0.16	1.14	-0.72	**0.55**
3037	2,4,3,6,10,16,20,23,26,31,34,36,39,41,40,42,47,50,54	-0.09	0.66	-0.43	0.01	0.30	-0.73	-0.87	-0.84	0.62	1.33	-1.55	-0.90	-0.43	0.10	-0.16	1.14	-0.72	**-2.59**
3038	2,4,3,6,10,16,20,23,26,31,34,36,39,41,40,42,49,53,54	-0.14	0.40	-0.45	-0.05	0.27	-1.59	-1.11	-0.32	0.04	1.20	-1.37	0.05	-0.47	0.10	-0.16	1.14	-0.72	**-3.18**
3039	2,4,3,6,10,16,20,23,26,31,34,36,39,41,43,47,46,48,51	1.12	0.66	0.78	1.52	-1.07	-0.73	0.08	-1.02	-0.21	1.13	0.06	1.01	0.39	0.10	-0.16	1.14	-0.72	**4.06**
3040	2,4,3,6,10,16,20,23,26,31,34,36,39,41,43,47,46,48,52,53,54	0.79	0.66	0.42	1.13	-0.54	-1.59	-0.16	-0.84	-0.08	1.13	-0.26	0.05	-0.09	0.10	-0.16	1.14	-0.72	**0.97**
3041	2,4,3,6,10,16,20,23,26,31,34,36,39,41,43,47,49,53,54	-0.13	0.92	-0.45	0.03	0.31	-1.59	-1.11	-0.32	0.04	1.23	-1.37	0.05	-0.46	0.10	-0.16	1.14	-0.72	**-2.49**
3042	2,4,3,6,10,16,20,23,26,31,34,36,39,41,43,50,54	-0.23	0.40	-0.46	-0.08	0.25	-1.59	-0.87	-0.84	0.62	1.27	-1.61	-0.90	-0.51	0.10	-0.16	1.14	-0.72	**-4.21**
3043	2,4,3,6,10,16,20,23,26,31,34,36,39,44,55	-1.17	-0.90	-0.12	-0.28	0.14	-2.02	-2.07	-1.02	0.37	1.25	-1.76	-0.90	-0.57	0.10	-0.16	1.14	-0.72	**-8.69**
3044	2,4,3,6,10,16,20,23,26,31,34,36,39,45,55	0.53	0.14	0.72	0.74	-0.35	0.13	-0.87	-0.45	1.69	2.06	-1.05	-0.90	0.31	0.10	-0.16	1.14	-0.72	**3.05**
3045	2,4,3,6,10,16,20,23,26,31,34,38,40,42,46,48,51	-0.18	-0.38	-0.35	1.15	0.22	-0.30	-0.64	-0.80	0.15	-0.87	1.08	1.01	-0.64	0.10	-0.16	1.14	1.40	**1.93**
3046	2,4,3,6,10,16,20,23,26,31,34,38,40,42,46,48,52,53,54	-0.50	-0.38	-0.71	0.77	0.75	-1.16	-0.87	-0.62	0.27	-0.87	0.76	0.05	-1.13	0.10	-0.16	1.14	1.40	**-1.16**
3047	2,4,3,6,10,16,20,23,26,31,34,38,40,42,47,50,54	-1.39	-0.12	-1.56	-0.28	1.63	-0.30	-1.59	-0.62	0.98	-0.64	-0.53	-0.90	-1.47	0.10	-0.16	1.14	1.40	**-4.30**
3048	2,4,3,6,10,16,20,23,26,31,34,38,40,42,49,53,54	-1.43	-0.38	-1.58	-0.33	1.61	-1.16	-1.83	-0.10	0.39	-0.76	-0.34	0.05	-1.50	0.10	-0.16	1.14	1.40	**-4.88**
3049	2,4,3,6,10,16,20,23,26,31,34,38,41,44,55	-0.92	-1.15	-0.83	-0.56	1.48	-1.59	-1.83	-0.80	0.72	-0.71	-0.05	-0.90	-0.98	0.10	-0.16	1.14	1.40	**-5.65**
3050	2,4,3,6,10,16,20,23,26,31,34,38,41,45,55	0.78	-0.12	0.01	0.46	0.99	0.55	-0.64	-0.22	2.04	0.10	0.65	-0.90	-0.10	0.10	-0.16	1.14	1.40	**6.09**
3051	2,4,3,6,10,16,20,23,26,31,34,38,43,47,46,48,51	-0.17	-0.64	-0.35	1.23	0.26	-0.30	-0.64	-0.80	0.15	-0.83	1.08	1.01	-0.64	0.10	-0.16	1.14	1.40	**1.84**
3052	2,4,3,6,10,16,20,23,26,31,34,38,43,47,46,48,52,53,54	-0.50	-0.64	-0.71	0.85	0.80	-1.16	-0.87	-0.62	0.27	-0.83	0.76	0.05	-1.13	0.10	-0.16	1.14	1.40	**-1.25**
3053	2,4,3,6,10,16,20,23,26,31,34,38,43,47,49,53,54	-1.43	-0.38	-1.57	-0.25	1.65	-1.16	-1.83	-0.10	0.39	-0.73	-0.34	0.05	-1.50	0.10	-0.16	1.14	1.40	**-4.71**
3054	2,4,3,6,10,16,20,23,26,31,34,38,43,50,54	-1.53	-0.90	-1.59	-0.37	1.58	-1.16	-1.59	-0.62	0.98	-0.69	-0.58	-0.90	-1.54	0.10	-0.16	1.14	1.40	**-6.43**
3055	2,4,3,6,10,16,20,23,26,33,37,40,41,44,55	-0.89	-1.67	-0.82	-0.55	0.40	-1.16	-1.59	-1.16	0.10	-0.71	-0.03	-0.90	-0.93	0.10	-0.16	1.14	-0.72	**-9.58**
3056	2,4,3,6,10,16,20,23,26,33,37,40,41,45,55	0.81	-0.64	0.02	0.46	-0.09	0.98	-0.40	-0.59	1.42	0.10	0.68	-0.90	-0.06	0.10	-0.16	1.14	-0.72	**2.15**
3057	2,4,3,6,10,16,20,23,26,33,37,40,43,47,46,48,51	-0.15	-0.64	-0.35	1.24	-0.81	0.13	-0.40	-1.16	-0.48	-0.83	1.10	1.01	-0.60	0.10	-0.16	1.14	-0.72	**-1.59**
3058	2,4,3,6,10,16,20,23,26,33,37,40,43,47,46,48,52,53,54	-0.48	-0.64	-0.70	0.86	-0.28	-0.73	-0.64	-0.99	-0.36	-0.83	0.78	0.05	-1.08	0.10	-0.16	1.14	-0.72	**-4.67**
3059	2,4,3,6,10,16,20,23,26,33,37,40,43,47,49,53,54	-1.40	-0.38	-1.57	-0.24	0.57	-0.73	-1.59	-0.47	-0.23	-0.73	-0.32	0.05	-1.45	0.10	-0.16	1.14	-0.72	**-8.14**
3060	2,4,3,6,10,16,20,23,26,33,37,40,43,50,54	-1.50	-0.90	-1.59	-0.36	0.51	-0.73	-1.35	-0.99	0.35	-0.68	-0.56	-0.90	-1.50	0.10	-0.16	1.14	-0.72	**-9.86**
3061	2,4,3,6,10,16,20,23,26,33,37,42,46,48,51	-0.28	-1.41	-0.38	1.16	-0.86	-0.73	-0.40	-1.16	-0.48	-0.86	1.07	1.01	-0.67	0.10	-0.16	1.14	-0.72	**-3.66**
3062	2,4,3,6,10,16,20,23,26,33,37,42,46,48,52,53,54	-0.61	-1.41	-0.74	0.78	-0.32	-1.59	-0.64	-0.99	-0.36	-0.86	0.75	0.05	-1.16	0.10	-0.16	1.14	-0.72	**-6.74**
3063	2,4,3,6,10,16,20,23,26,33,37,42,47,50,54	-1.49	-1.15	-1.59	-0.27	0.56	-0.73	-1.35	-0.99	0.35	-0.63	-0.54	-0.90	-1.49	0.10	-0.16	1.14	-0.72	**-9.88**
3064	2,4,3,6,10,16,20,23,26,33,37,42,49,53,54	-1.54	-1.41	-1.61	-0.32	0.53	-1.59	-1.59	-0.47	-0.23	-0.76	-0.36	0.05	-1.53	0.10	-0.16	1.14	-0.72	**-10.47**
3065	2,4,3,6,10,16,20,23,27,28,31,30,32,46,47,50,54	1.03	0.66	0.06	-0.52	0.70	0.98	0.80	-1.58	1.65	0.26	0.57	-0.90	0.58	0.82	-0.16	-0.77	0.98	**5.16**
3066	2,4,3,6,10,16,20,23,27,28,31,30,32,46,49,53,54	0.99	0.40	0.04	-0.58	0.67	0.13	0.56	-1.06	1.07	0.14	0.73	0.05	0.55	0.82	-0.16	-0.77	0.98	**4.56**
3067	2,4,3,6,10,16,20,23,27,28,31,30,32,48,51	0.49	-0.12	0.79	-1.17	-1.28	0.98	1.28	-1.76	0.82	0.03	0.22	-0.90	1.06	0.82	-0.16	-0.77	0.98	**1.31**
3068	2,4,3,6,10,16,20,23,27,28,31,30,32,48,52,53,54	0.16	-0.12	0.44	-1.55	-0.74	0.13	1.04	-1.58	0.94	0.03	-0.10	-1.85	0.57	0.82	-0.16	-0.77	0.98	**-1.78**
3069	2,4,3,6,10,16,20,23,27,28,31,33,37,40,41,44,55	-0.86	-1.15	-0.86	-0.53	0.61	-1.16	-1.59	-1.16	-0.26	-0.34	-0.29	-0.90	-0.97	0.10	-0.16	-0.77	-0.72	**-11.02**
3070	2,4,3,6,10,16,20,23,27,28,31,33,37,40,41,45,55	0.84	-0.12	-0.02	0.49	0.12	0.98	-0.40	-0.59	1.07	0.47	0.42	-0.90	-0.09	0.10	-0.16	-0.77	-0.72	**0.71**
3071	2,4,3,6,10,16,20,23,27,28,31,33,37,40,43,47,46,48,51	-0.11	-0.12	-0.39	1.27	-0.61	0.13	-0.40	-1.16	-0.83	-0.46	0.84	1.01	-0.63	0.10	-0.16	-0.77	-0.72	**-3.03**
3072	2,4,3,6,10,16,20,23,27,28,31,33,37,40,43,47,46,48,52,53,54	-0.44	-0.12	-0.74	0.88	-0.07	-0.73	-0.64	-0.99	-0.71	-0.46	0.53	0.05	-1.12	0.10	-0.16	-0.77	-0.72	**-6.11**
3073	2,4,3,6,10,16,20,23,27,28,31,33,37,40,43,47,49,53,54	-1.37	0.14	-1.61	-0.22	0.78	-0.73	-1.59	-0.47	-0.58	-0.36	-0.58	0.05	-1.49	0.10	-0.16	-0.77	-0.72	**-9.58**
3074	2,4,3,6,10,16,20,23,27,28,31,33,37,40,43,50,54	-1.47	-0.38	-1.63	-0.34	0.71	-0.73	-1.35	-0.99	0.00	-0.31	-0.82	-0.90	-1.53	0.10	-0.16	-0.77	-0.72	**-11.30**
3075	2,4,3,6,10,16,20,23,27,28,31,33,37,42,46,48,51	-0.25	-0.90	-0.42	1.19	-0.65	-0.73	-0.40	-1.16	-0.83	-0.49	0.81	1.01	-0.71	0.10	-0.16	-0.77	-0.72	**-5.10**
3076	2,4,3,6,10,16,20,23,27,28,31,33,37,42,46,48,52,53,54	-0.57	-0.90	-0.78	0.80	-0.12	-1.59	-0.64	-0.99	-0.71	-0.49	0.49	0.05	-1.19	0.10	-0.16	-0.77	-0.72	**-8.18**
3077	2,4,3,6,10,16,20,23,27,28,31,33,37,42,47,50,54	-1.46	-0.64	-1.63	-0.25	0.76	-0.73	-1.35	-0.99	0.00	-0.26	-0.80	-0.90	-1.53	0.10	-0.16	-0.77	-0.72	**-11.32**
3078	2,4,3,6,10,16,20,23,27,28,31,33,37,42,49,53,54	-1.50	-0.90	-1.65	-0.30	0.74	-1.59	-1.59	-0.47	-0.58	-0.39	-0.62	0.05	-1.56	0.10	-0.16	-0.77	-0.72	**-11.91**
3079	2,4,3,6,10,16,20,23,27,28,34,35,37,40,41,44,55	-0.89	-1.15	-0.86	-0.51	0.97	-1.16	-1.83	-1.16	0.04	-0.38	-0.31	-0.90	-1.01	0.10	-0.16	-0.77	-0.72	**-10.72**
3080	2,4,3,6,10,16,20,23,27,28,34,35,37,40,41,45,55	0.81	-0.12	-0.02	0.51	0.48	0.98	-0.64	-0.59	1.37	0.43	0.39	-0.90	-0.14	0.10	-0.16	-0.77	-0.72	**1.02**
3081	2,4,3,6,10,16,20,23,27,28,34,35,37,40,43,47,46,48,51	-0.14	-0.12	-0.38	1.29	-0.25	0.13	-0.64	-1.16	-0.53	-0.50	0.82	1.01	-0.68	0.10	-0.16	-0.77	-0.72	**-2.72**
3082	2,4,3,6,10,16,20,23,27,28,34,35,37,40,43,47,46,48,52,53,54	-0.47	-0.12	-0.74	0.90	0.29	-0.73	-0.87	-0.99	-0.41	-0.50	0.50	0.05	-1.16	0.10	-0.16	-0.77	-0.72	**-5.80**
3083	2,4,3,6,10,16,20,23,27,28,34,35,37,40,43,47,49,53,54	-1.40	0.14	-1.60	-0.20	1.14	-0.73	-1.83	-0.47	-0.28	-0.40	-0.60	0.05	-1.53	0.10	-0.16	-0.77	-0.72	**-9.27**
3084	2,4,3,6,10,16,20,23,27,28,34,35,37,40,43,50,54	-1.50	-0.38	-1.62	-0.31	1.07	-0.73	-1.59	-0.99	0.30	-0.35	-0.85	-0.90	-1.58	0.10	-0.16	-0.77	-0.72	**-10.99**
3085	2,4,3,6,10,16,20,23,27,28,34,35,37,42,46,48,51	-0.27	-0.90	-0.42	1.21	-0.29	-0.73	-0.64	-1.16	-0.53	-0.53	0.78	1.01	-0.75	0.10	-0.16	-0.77	-0.72	**-4.79**
3086	2,4,3,6,10,16,20,23,27,28,34,35,37,42,46,48,52,53,54	-0.60	-0.90	-0.77	0.82	0.24	-1.59	-0.87	-0.99	-0.41	-0.53	0.46	0.05	-1.24	0.10	-0.16	-0.77	-0.72	**-7.88**
3087	2,4,3,6,10,16,20,23,27,28,34,35,37,42,47,50,54	-1.48	-0.64	-1.62	-0.22	1.12	-0.73	-1.59	-0.99	0.30	-0.30	-0.82	-0.90	-1.57	0.10	-0.16	-0.77	-0.72	**-11.02**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
3088	2,4,3,6,10,16,20,23,27,28,34,35,37,42,49,53,54	-1.53	-0.90	-1.64	-0.27	1.09	-1.59	-1.83	-0.47	-0.28	-0.43	-0.64	0.05	-1.61	0.10	-0.16	-0.77	-0.72	**-11.60**
3089	2,4,3,6,10,16,20,23,27,28,34,36,39,41,40,42,46,48,51	1.06	-0.12	0.71	1.47	-0.91	-0.73	0.08	-1.02	-0.56	1.44	-0.29	1.01	0.29	0.10	-0.16	-0.77	-0.72	**0.87**
3090	2,4,3,6,10,16,20,23,27,28,34,36,39,41,40,42,46,48,52,53,54	0.73	-0.12	0.35	1.08	-0.38	-1.59	-0.16	-0.84	-0.44	1.44	-0.60	0.05	-0.19	0.10	-0.16	-0.77	-0.72	**-2.22**
3091	2,4,3,6,10,16,20,23,27,28,34,36,39,41,40,42,47,50,54	-0.15	0.14	-0.49	0.03	0.50	-0.73	-0.87	-0.84	0.27	1.67	-1.89	-0.90	-0.53	0.10	-0.16	-0.77	-0.72	**-5.36**
3092	2,4,3,6,10,16,20,23,27,28,34,36,39,41,40,42,49,53,54	-0.20	-0.12	-0.51	-0.02	0.48	-1.59	-1.11	-0.32	-0.31	1.54	-1.71	0.05	-0.56	0.10	-0.16	-0.77	-0.72	**-5.94**
3093	2,4,3,6,10,16,20,23,27,28,34,36,39,41,43,47,46,48,51	1.06	0.14	0.71	1.55	-0.87	-0.73	0.08	-1.02	-0.56	1.47	-0.28	1.01	0.30	0.10	-0.16	-0.77	-0.72	**1.30**
3094	2,4,3,6,10,16,20,23,27,28,34,36,39,41,43,47,46,48,52,53,54	0.73	0.14	0.36	1.16	-0.33	-1.59	-0.16	-0.84	-0.44	1.47	-0.60	0.05	-0.19	0.10	-0.16	-0.77	-0.72	**-1.79**
3095	2,4,3,6,10,16,20,23,27,28,34,36,39,41,43,47,49,53,54	-0.19	0.40	-0.51	0.06	0.52	-1.59	-1.11	-0.32	-0.31	1.58	-1.70	0.05	-0.56	0.10	-0.16	-0.77	-0.72	**-5.26**
3096	2,4,3,6,10,16,20,23,27,28,34,36,39,41,43,50,54	-0.29	-0.12	-0.53	-0.06	0.45	-1.59	-0.87	-0.84	0.27	1.62	-1.94	-0.90	-0.60	0.10	-0.16	-0.77	-0.72	**-6.97**
3097	2,4,3,6,10,16,20,23,27,28,34,36,39,44,55	-1.23	-1.41	-0.18	-0.25	0.35	-2.02	-2.07	-1.02	0.01	1.59	-2.10	-0.90	-0.67	0.10	-0.16	-0.77	-0.72	**-11.45**
3098	2,4,3,6,10,16,20,23,27,28,34,36,39,45,55	0.47	-0.38	0.66	0.77	-0.14	0.13	-0.87	-0.45	1.34	2.40	-1.39	-0.90	0.21	0.10	-0.16	-0.77	-0.72	**0.29**
3099	2,4,3,6,10,16,20,23,27,28,34,38,40,42,46,48,51	-0.23	-0.90	-0.42	1.18	0.42	-0.30	-0.64	-0.80	-0.21	-0.52	0.74	1.01	-0.74	0.10	-0.16	-0.77	1.40	**-0.84**
3100	2,4,3,6,10,16,20,23,27,28,34,38,40,42,46,48,52,53,54	-0.56	-0.90	-0.77	0.79	0.96	-1.16	-0.87	-0.62	-0.08	-0.52	0.42	0.05	-1.23	0.10	-0.16	-0.77	1.40	**-3.92**
3101	2,4,3,6,10,16,20,23,27,28,34,38,40,42,47,50,54	-1.45	-0.64	-1.62	-0.25	1.84	-0.30	-1.59	-0.62	0.62	-0.29	-0.86	-0.90	-1.56	0.10	-0.16	-0.77	1.40	**-7.06**
3102	2,4,3,6,10,16,20,23,27,28,34,38,40,42,49,53,54	-1.49	-0.90	-1.64	-0.31	1.81	-1.16	-1.83	-0.10	0.04	-0.42	-0.68	0.05	-1.60	0.10	-0.16	-0.77	1.40	**-7.65**
3103	2,4,3,6,10,16,20,23,27,28,34,38,41,44,55	-0.98	-1.67	-0.89	-0.54	1.68	-1.59	-1.83	-0.80	0.37	-0.37	-0.39	-0.90	-1.07	0.10	-0.16	-0.77	1.40	**-8.41**
3104	2,4,3,6,10,16,20,23,27,28,34,38,41,45,55	0.72	-0.64	-0.05	0.48	1.19	0.55	-0.64	-0.22	1.69	0.44	0.32	-0.90	-0.20	0.10	-0.16	-0.77	1.40	**3.33**
3105	2,4,3,6,10,16,20,23,27,28,34,38,43,47,46,48,51	-0.23	-1.15	-0.42	1.26	0.47	-0.30	-0.64	-0.80	-0.21	-0.49	0.75	1.01	-0.74	0.10	-0.16	-0.77	1.40	**-0.93**
3106	2,4,3,6,10,16,20,23,27,28,34,38,43,47,46,48,52,53,54	-0.56	-1.15	-0.77	0.87	1.00	-1.16	-0.87	-0.62	-0.08	-0.49	0.43	0.05	-1.22	0.10	-0.16	-0.77	1.40	**-4.01**
3107	2,4,3,6,10,16,20,23,27,28,34,38,43,47,49,53,54	-1.49	-0.90	-1.64	-0.23	1.86	-1.16	-1.83	-0.10	0.04	-0.39	-0.68	0.05	-1.60	0.10	-0.16	-0.77	1.40	**-7.48**
3108	2,4,3,6,10,16,20,23,27,28,34,38,43,50,54	-1.59	-1.41	-1.66	-0.34	1.79	-1.16	-1.59	-0.62	0.62	-0.34	-0.92	-0.90	-1.64	0.10	-0.16	-0.77	1.40	**-9.20**
3109	2,4,3,6,8,14,30,31,34,35,37,40,41,44,55	0.52	-1.67	1.26	-0.36	0.79	-0.73	0.56	-1.81	-3.10	0.16	0.97	0.05	0.63	-1.02	-0.16	-0.77	-0.72	**-5.42**
3110	2,4,3,6,8,14,30,31,34,35,37,40,41,45,55	2.22	-0.64	2.10	0.66	0.30	1.41	1.75	-1.24	-1.78	0.97	1.68	0.05	1.50	-1.02	-0.16	-0.77	-0.72	**6.31**
3111	2,4,3,6,8,14,30,31,34,35,37,40,43,47,46,48,51	1.27	-0.64	1.73	1.44	-0.43	0.55	1.75	-1.81	-3.68	0.03	2.10	1.96	0.96	-1.02	-0.16	-0.77	-0.72	**2.57**
3112	2,4,3,6,8,14,30,31,34,35,37,40,43,47,46,48,52,53,54	0.94	-0.64	1.37	1.05	0.11	-0.30	1.52	-1.64	-3.55	0.03	1.78	1.01	0.48	-1.02	-0.16	-0.77	-0.72	**-0.51**
3113	2,4,3,6,8,14,30,31,34,35,37,40,43,47,49,53,54	0.01	-0.38	0.51	-0.04	0.96	-0.30	0.56	-1.12	-3.43	0.14	0.68	1.01	0.11	-1.02	-0.16	-0.77	-0.72	**-3.98**
3114	2,4,3,6,8,14,30,31,34,35,37,40,43,50,54	-0.09	-0.90	0.49	-0.16	0.90	-0.30	0.80	-1.64	-2.85	0.18	0.44	0.05	0.06	-1.02	-0.16	-0.77	-0.72	**-5.70**
3115	2,4,3,6,8,14,30,31,34,35,37,42,46,48,51	1.13	-1.41	1.69	1.36	-0.47	-0.30	1.75	-1.81	-3.68	0.00	2.07	1.96	0.89	-1.02	-0.16	-0.77	-0.72	**0.50**
3116	2,4,3,6,8,14,30,31,34,35,37,42,46,48,52,53,54	0.81	-1.41	1.34	0.98	0.07	-1.16	1.52	-1.64	-3.55	0.00	1.75	1.01	0.40	-1.02	-0.16	-0.77	-0.72	**-2.58**
3117	2,4,3,6,8,14,30,31,34,35,37,42,47,50,54	-0.08	-1.15	0.49	-0.07	0.95	-0.30	0.80	-1.64	-2.85	0.23	0.46	0.05	0.07	-1.02	-0.16	-0.77	-0.72	**-5.72**
3118	2,4,3,6,8,14,30,31,34,35,37,42,49,53,54	-0.12	-1.41	0.47	-0.12	0.92	-1.16	0.56	-1.12	-3.43	0.10	0.64	1.01	0.03	-1.02	-0.16	-0.77	-0.72	**-6.31**
3119	2,4,3,6,8,14,30,31,34,36,39,41,40,42,46,48,51	2.47	-0.64	2.82	1.62	-1.09	-0.30	2.47	-1.67	-3.71	1.97	1.00	1.96	1.93	-1.02	-0.16	-0.77	-0.72	**6.16**
3120	2,4,3,6,8,14,30,31,34,36,39,41,40,42,46,48,52,53,54	2.14	-0.64	2.47	1.23	-0.55	-1.16	2.23	-1.49	-3.58	1.97	0.68	1.01	1.45	-1.02	-0.16	-0.77	-0.72	**3.07**
3121	2,4,3,6,8,14,30,31,34,36,39,41,40,42,47,50,54	1.26	-0.38	1.62	0.18	0.33	-0.30	1.52	-1.49	-2.88	2.21	-0.61	0.05	1.11	-1.02	-0.16	-0.77	-0.72	**-0.07**
3122	2,4,3,6,8,14,30,31,34,36,39,41,40,42,49,53,54	1.21	-0.64	1.60	0.13	0.30	-1.16	1.28	-0.97	-3.46	2.08	-0.42	1.01	1.08	-1.02	-0.16	-0.77	-0.72	**-0.65**
3123	2,4,3,6,8,14,30,31,34,36,39,41,43,47,46,48,51	2.47	-0.38	2.82	1.70	-1.04	-0.30	2.47	-1.67	-3.71	2.01	1.00	1.96	1.94	-1.02	-0.16	-0.77	-0.72	**6.59**
3124	2,4,3,6,8,14,30,31,34,36,39,41,43,47,46,48,52,53,54	2.14	-0.38	2.47	1.31	-0.51	-1.16	2.23	-1.49	-3.58	2.01	0.69	1.01	1.45	-1.02	-0.16	-0.77	-0.72	**3.50**
3125	2,4,3,6,8,14,30,31,34,36,39,41,43,47,49,53,54	1.22	-0.12	1.60	0.21	0.34	-1.16	1.28	-0.97	-3.46	2.11	-0.42	1.01	1.08	-1.02	-0.16	-0.77	-0.72	**0.04**
3126	2,4,3,6,8,14,30,31,34,36,39,41,43,50,54	1.12	-0.64	1.58	0.09	0.28	-1.16	1.52	-1.49	-2.88	2.15	-0.66	0.05	1.04	-1.02	-0.16	-0.77	-0.72	**-1.68**
3127	2,4,3,6,8,14,30,31,34,36,39,44,55	0.18	-1.93	1.93	-0.10	0.17	-1.59	0.32	-1.67	-3.13	2.13	-0.81	0.05	0.97	-1.02	-0.16	-0.77	-0.72	**-6.16**
3128	2,4,3,6,8,14,30,31,34,36,39,45,55	1.88	-0.90	2.77	0.92	-0.32	0.55	1.52	-1.10	-1.81	2.94	-0.11	0.05	1.85	-1.02	-0.16	-0.77	-0.72	**5.58**
3129	2,4,3,6,8,14,30,31,34,38,40,42,46,48,51	1.17	-1.41	1.69	1.33	0.25	0.13	1.75	-1.45	-3.35	0.01	2.03	1.96	0.90	-1.02	-0.16	-0.77	1.40	**4.45**
3130	2,4,3,6,8,14,30,31,34,38,40,42,46,48,52,53,54	0.85	-1.41	1.34	0.94	0.78	-0.73	1.52	-1.27	-3.23	0.01	1.71	1.01	0.41	-1.02	-0.16	-0.77	1.40	**1.37**
3131	2,4,3,6,8,14,30,31,34,38,40,42,47,50,54	-0.04	-1.15	0.49	-0.10	1.66	0.13	0.80	-1.27	-2.52	0.24	0.42	0.05	0.08	-1.02	-0.16	-0.77	1.40	**-1.77**
3132	2,4,3,6,8,14,30,31,34,38,40,42,49,53,54	-0.08	-1.41	0.47	-0.16	1.64	-0.73	0.56	-0.75	-3.10	0.12	0.60	1.01	0.04	-1.02	-0.16	-0.77	1.40	**-2.36**
3133	2,4,3,6,8,14,30,31,34,38,41,44,55	0.43	-2.19	1.22	-0.39	1.51	-1.16	0.56	-1.45	-2.78	0.17	0.90	0.05	0.57	-1.02	-0.16	-0.77	1.40	**-3.12**
3134	2,4,3,6,8,14,30,31,34,38,41,45,55	2.13	-1.15	2.06	0.63	1.02	0.98	1.75	-0.87	-1.45	0.98	1.60	0.05	1.44	-1.02	-0.16	-0.77	1.40	**8.62**
3135	2,4,3,6,8,14,30,31,34,38,43,47,46,48,51	1.18	-1.67	1.69	1.41	0.29	0.13	1.75	-1.45	-3.35	0.04	2.03	1.96	0.90	-1.02	-0.16	-0.77	1.40	**4.36**
3136	2,4,3,6,8,14,30,31,34,38,43,47,46,48,52,53,54	0.85	-1.67	1.34	1.02	0.83	-0.73	1.52	-1.27	-3.23	0.04	1.71	1.01	0.42	-1.02	-0.16	-0.77	1.40	**1.28**
3137	2,4,3,6,8,14,30,31,34,38,43,47,49,53,54	-0.08	-1.41	0.47	-0.08	1.68	-0.73	0.56	-0.75	-3.10	0.15	0.61	1.01	0.04	-1.02	-0.16	-0.77	1.40	**-2.19**
3138	2,4,3,6,8,14,30,31,34,38,43,50,54	-0.18	-1.93	0.45	-0.19	1.61	-0.73	0.80	-1.27	-2.52	0.19	0.37	0.05	0.00	-1.02	-0.16	-0.77	1.40	**-3.91**
3139	2,4,3,6,8,14,30,33,37,40,41,44,55	0.46	-2.19	1.22	-0.38	0.43	-0.73	0.80	-1.81	-3.40	0.17	0.92	0.05	0.61	-1.02	-0.16	-0.77	-0.72	**-6.54**
3140	2,4,3,6,8,14,30,33,37,40,41,45,55	2.16	-1.15	2.06	0.64	-0.06	1.41	1.99	-1.24	-2.08	0.98	1.62	0.05	1.48	-1.02	-0.16	-0.77	-0.72	**5.20**
3141	2,4,3,6,8,14,30,33,37,40,43,47,46,48,51	1.20	-1.15	1.70	1.42	-0.78	0.55	1.99	-1.81	-3.98	0.05	2.05	1.96	0.94	-1.02	-0.16	-0.77	-0.72	**1.46**
3142	2,4,3,6,8,14,30,33,37,40,43,47,46,48,52,53,54	0.88	-1.15	1.34	1.03	-0.25	-0.30	1.75	-1.64	-3.85	0.05	1.73	1.01	0.46	-1.02	-0.16	-0.77	-0.72	**-1.63**
3143	2,4,3,6,8,14,30,33,37,40,43,47,49,53,54	-0.05	-0.90	0.48	-0.07	0.60	-0.30	0.80	-1.12	-3.73	0.15	0.63	1.01	0.09	-1.02	-0.16	-0.77	-0.72	**-5.09**
3144	2,4,3,6,8,14,30,33,37,40,43,50,54	-0.15	-1.41	0.46	-0.19	0.54	-0.30	1.04	-1.64	-3.15	0.20	0.38	0.05	0.04	-1.02	-0.16	-0.77	-0.72	**-6.81**
3145	2,4,3,6,8,14,30,33,37,42,46,48,51	1.07	-1.93	1.66	1.34	-0.83	-0.30	1.99	-1.81	-3.98	0.02	2.01	1.96	0.87	-1.02	-0.16	-0.77	-0.72	**-0.62**
3146	2,4,3,6,8,14,30,33,37,42,46,48,52,53,54	0.74	-1.93	1.31	0.95	-0.29	-1.16	1.75	-1.64	-3.85	0.02	1.69	1.01	0.38	-1.02	-0.16	-0.77	-0.72	**-3.70**
3147	2,4,3,6,8,14,30,33,37,42,47,50,54	-0.14	-1.67	0.46	-0.09	0.59	-0.30	1.04	-1.64	-3.15	0.25	0.41	0.05	0.05	-1.02	-0.16	-0.77	-0.72	**-6.84**
3148	2,4,3,6,8,14,30,33,37,42,49,53,54	-0.19	-1.93	0.44	-0.15	0.56	-1.16	0.80	-1.12	-3.73	0.12	0.59	1.01	0.01	-1.02	-0.16	-0.77	-0.72	**-7.43**
3149	2,4,3,6,8,14,32,46,47,50,54	1.48	-0.90	1.91	-0.37	0.52	0.55	2.71	-2.23	-1.50	0.77	0.86	0.05	1.56	-0.50	-0.16	-0.77	0.98	**4.98**
3150	2,4,3,6,8,14,32,46,49,53,54	1.43	-1.15	1.89	-0.42	0.50	-0.30	2.47	-1.71	-2.08	0.65	1.02	1.01	1.53	-0.50	-0.16	-0.77	0.98	**4.37**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
3151	2,4,3,6,8,14,32,48,51	0.93	-1.67	2.64	-1.02	-1.46	0.55	3.19	-2.41	-2.33	0.54	0.51	0.05	2.04	-0.50	-0.16	-0.77	0.98	**1.12**
3152	2,4,3,6,8,14,32,48,52,53,54	0.61	-1.67	2.29	-1.40	-0.92	-0.30	2.95	-2.23	-2.20	0.54	0.19	-0.90	1.55	-0.50	-0.16	-0.77	0.98	**-1.96**
3153	2,4,3,6,9,11,13,12,14,30,31,34,35,37,40,41,44,55	0.75	-1.15	0.57	1.21	1.40	0.13	0.32	-0.08	-0.65	0.43	0.67	-0.90	0.34	-0.86	-0.16	-0.77	-0.72	**0.51**
3154	2,4,3,6,9,11,13,12,14,30,31,34,35,37,40,41,45,55	2.45	-0.12	1.41	2.23	0.91	2.27	1.52	0.50	0.68	1.24	1.37	-0.90	1.21	-0.86	-0.16	-0.77	-0.72	**12.24**
3155	2,4,3,6,9,11,13,12,14,30,31,34,35,37,40,43,47,46,48,51	1.49	-0.12	1.04	3.00	0.18	1.41	1.52	-0.08	-1.22	0.31	1.80	1.01	0.67	-0.86	-0.16	-0.77	-0.72	**8.50**
3156	2,4,3,6,9,11,13,12,14,30,31,34,35,37,40,43,47,46,48,52,53,54	1.17	-0.12	0.69	2.62	0.72	0.55	1.28	0.10	-1.10	0.31	1.48	0.05	0.19	-0.86	-0.16	-0.77	-0.72	**5.42**
3157	2,4,3,6,9,11,13,12,14,30,31,34,35,37,40,43,47,49,53,54	0.24	0.14	-0.18	1.52	1.57	0.55	0.32	0.62	-0.97	0.41	0.38	0.05	-0.18	-0.86	-0.16	-0.77	-0.72	**1.95**
3158	2,4,3,6,9,11,13,12,14,30,31,34,35,37,40,43,50,54	0.14	-0.38	-0.20	1.40	1.51	0.55	0.56	0.10	-0.39	0.45	0.13	-0.90	-0.23	-0.86	-0.16	-0.77	-0.72	**0.24**
3159	2,4,3,6,9,11,13,12,14,30,31,34,35,37,42,46,48,51	1.36	-0.90	1.01	2.92	0.14	0.55	1.52	-0.08	-1.22	0.27	1.76	1.01	0.60	-0.86	-0.16	-0.77	-0.72	**6.43**
3160	2,4,3,6,9,11,13,12,14,30,31,34,35,37,42,46,48,52,53,54	1.03	-0.90	0.65	2.54	0.67	-0.30	1.28	0.10	-1.10	0.27	1.44	0.05	0.11	-0.86	-0.16	-0.77	-0.72	**3.35**
3161	2,4,3,6,9,11,13,12,14,30,31,34,35,37,42,47,50,54	0.15	-0.64	-0.20	1.49	1.55	0.55	0.56	0.10	-0.39	0.51	0.16	-0.90	-0.22	-0.86	-0.16	-0.77	-0.72	**0.21**
3162	2,4,3,6,9,11,13,12,14,30,31,34,35,37,42,49,53,54	0.11	-0.90	-0.22	1.44	1.53	-0.30	0.32	0.62	-0.97	0.38	0.34	0.05	-0.26	-0.86	-0.16	-0.77	-0.72	**-0.38**
3163	2,4,3,6,9,11,13,12,14,30,31,34,36,39,41,40,42,46,48,51	2.69	-0.12	2.13	3.18	-0.48	0.55	2.23	0.07	-1.25	2.25	0.70	1.01	1.64	-0.86	-0.16	-0.77	-0.72	**12.09**
3164	2,4,3,6,9,11,13,12,14,30,31,34,36,39,41,40,42,46,48,52,53,54	2.37	-0.12	1.78	2.79	0.06	-0.30	1.99	0.24	-1.13	2.25	0.38	0.05	1.16	-0.86	-0.16	-0.77	-0.72	**9.00**
3165	2,4,3,6,9,11,13,12,14,30,31,34,36,39,41,40,42,47,50,54	1.48	0.14	0.93	1.75	0.94	0.55	1.28	0.24	-0.42	2.48	-0.91	-0.90	0.82	-0.86	-0.16	-0.77	-0.72	**5.86**
3166	2,4,3,6,9,11,13,12,14,30,31,34,36,39,41,40,42,49,53,54	1.44	-0.12	0.91	1.69	0.91	-0.30	1.04	0.76	-1.00	2.35	-0.73	0.05	0.79	-0.86	-0.16	-0.77	-0.72	**5.28**
3167	2,4,3,6,9,11,13,12,14,30,31,34,36,39,41,43,47,46,48,51	2.70	0.14	2.14	3.26	-0.44	0.55	2.23	0.07	-1.25	2.28	0.70	1.01	1.65	-0.86	-0.16	-0.77	-0.72	**12.52**
3168	2,4,3,6,9,11,13,12,14,30,31,34,36,39,41,43,47,46,48,52,53,54	2.37	0.14	1.78	2.87	0.10	-0.30	1.99	0.24	-1.13	2.28	0.38	0.05	1.16	-0.86	-0.16	-0.77	-0.72	**9.43**
3169	2,4,3,6,9,11,13,12,14,30,31,34,36,39,41,43,47,49,53,54	1.44	0.40	0.91	1.77	0.95	-0.30	1.04	0.76	-1.00	2.38	-0.72	0.05	0.79	-0.86	-0.16	-0.77	-0.72	**5.97**
3170	2,4,3,6,9,11,13,12,14,30,31,34,36,39,41,43,50,54	1.34	-0.12	0.89	1.66	0.89	-0.30	1.28	0.24	-0.42	2.43	-0.96	-0.90	0.75	-0.86	-0.16	-0.77	-0.72	**4.25**
3171	2,4,3,6,9,11,13,12,14,30,31,34,36,39,44,55	0.41	-1.41	1.24	1.46	0.78	-0.73	0.08	0.07	-0.68	2.40	-1.12	-0.90	0.68	-0.86	-0.16	-0.77	-0.72	**-0.23**
3172	2,4,3,6,9,11,13,12,14,30,31,34,36,39,45,55	2.11	-0.38	2.08	2.48	0.29	1.41	1.28	0.64	0.65	3.21	-0.41	-0.90	1.56	-0.86	-0.16	-0.77	-0.72	**11.51**
3173	2,4,3,6,9,11,13,12,14,30,31,34,38,40,42,46,48,51	1.40	-0.90	1.00	2.89	0.85	0.98	1.52	0.29	-0.90	0.29	1.72	1.01	0.61	-0.86	-0.16	-0.77	1.40	**10.39**
3174	2,4,3,6,9,11,13,12,14,30,31,34,38,40,42,46,48,52,53,54	1.07	-0.90	0.65	2.51	1.39	0.13	1.28	0.47	-0.77	0.29	1.40	0.05	0.12	-0.86	-0.16	-0.77	1.40	**7.30**
3175	2,4,3,6,9,11,13,12,14,30,31,34,38,40,42,47,50,54	0.19	-0.64	-0.20	1.46	2.27	0.98	0.56	0.47	-0.07	0.52	0.12	-0.90	-0.21	-0.86	-0.16	-0.77	1.40	**4.16**
3176	2,4,3,6,9,11,13,12,14,30,31,34,38,40,42,49,53,54	0.15	-0.90	-0.22	1.41	2.24	0.13	0.32	0.99	-0.65	0.39	0.30	0.05	-0.25	-0.86	-0.16	-0.77	1.40	**3.58**
3177	2,4,3,6,9,11,13,12,14,30,31,34,38,41,44,55	0.66	-1.67	0.53	1.18	2.12	-0.30	0.32	0.29	-0.32	0.44	0.59	-0.90	0.28	-0.86	-0.16	-0.77	1.40	**2.81**
3178	2,4,3,6,9,11,13,12,14,30,31,34,38,41,45,55	2.36	-0.64	1.37	2.20	1.63	1.84	1.52	0.87	1.00	1.25	1.30	-0.90	1.15	-0.86	-0.16	-0.77	1.40	**14.55**
3179	2,4,3,6,9,11,13,12,14,30,31,34,38,43,47,46,48,51	1.40	-1.15	1.01	2.97	0.90	0.98	1.52	0.29	-0.90	0.32	1.73	1.01	0.61	-0.86	-0.16	-0.77	1.40	**10.30**
3180	2,4,3,6,9,11,13,12,14,30,31,34,38,43,47,46,48,52,53,54	1.08	-1.15	0.65	2.59	1.44	0.13	1.28	0.47	-0.77	0.32	1.41	0.05	0.13	-0.86	-0.16	-0.77	1.40	**7.21**
3181	2,4,3,6,9,11,13,12,14,30,31,34,38,43,47,49,53,54	0.15	-0.90	-0.22	1.49	2.29	0.13	0.32	0.99	-0.65	0.42	0.31	0.05	-0.24	-0.86	-0.16	-0.77	1.40	**3.74**
3182	2,4,3,6,9,11,13,12,14,30,31,34,38,43,50,54	0.05	-1.41	-0.24	1.37	2.22	0.13	0.56	0.47	-0.07	0.47	0.06	-0.90	-0.29	-0.86	-0.16	-0.77	1.40	**2.03**
3183	2,4,3,6,9,11,13,12,14,30,33,37,40,41,44,55	0.68	-1.67	0.54	1.19	1.04	0.13	0.56	-0.08	-0.95	0.45	0.61	-0.90	0.32	-0.86	-0.16	-0.77	-0.72	**-0.61**
3184	2,4,3,6,9,11,13,12,14,30,33,37,40,41,45,55	2.38	-0.64	1.38	2.20	0.55	2.27	1.75	0.50	0.38	1.26	1.32	-0.90	1.19	-0.86	-0.16	-0.77	-0.72	**11.13**
3185	2,4,3,6,9,11,13,12,14,30,33,37,40,43,47,46,48,51	1.43	-0.64	1.01	2.98	-0.18	1.41	1.75	-0.08	-1.52	0.32	1.74	1.01	0.65	-0.86	-0.16	-0.77	-0.72	**7.39**
3186	2,4,3,6,9,11,13,12,14,30,33,37,40,43,47,46,48,52,53,54	1.10	-0.64	0.66	2.60	0.36	0.55	1.52	0.10	-1.40	0.32	1.43	0.05	0.17	-0.86	-0.16	-0.77	-0.72	**4.30**
3187	2,4,3,6,9,11,13,12,14,30,33,37,40,43,47,49,53,54	0.17	-0.38	-0.21	1.50	1.21	0.55	0.56	0.62	-1.27	0.43	0.32	0.05	-0.20	-0.86	-0.16	-0.77	-0.72	**0.84**
3188	2,4,3,6,9,11,13,12,14,30,33,37,40,43,50,54	0.07	-0.90	-0.23	1.38	1.15	0.55	0.80	0.10	-0.69	0.47	0.08	-0.90	-0.25	-0.86	-0.16	-0.77	-0.72	**-0.88**
3189	2,4,3,6,9,11,13,12,14,30,33,37,42,46,48,51	1.29	-1.41	0.97	2.90	-0.22	0.55	1.75	-0.08	-1.52	0.29	1.71	1.01	0.58	-0.86	-0.16	-0.77	-0.72	**5.32**
3190	2,4,3,6,9,11,13,12,14,30,33,37,42,46,48,52,53,54	0.97	-1.41	0.62	2.52	0.32	-0.30	1.52	0.10	-1.40	0.29	1.39	0.05	0.09	-0.86	-0.16	-0.77	-0.72	**2.23**
3191	2,4,3,6,9,11,13,12,14,30,33,37,42,47,50,54	0.08	-1.15	-0.23	1.47	1.20	0.55	0.80	0.10	-0.69	0.52	0.10	-0.90	-0.24	-0.86	-0.16	-0.77	-0.72	**-0.91**
3192	2,4,3,6,9,11,13,12,14,30,33,37,42,49,53,54	0.04	-1.41	-0.25	1.42	1.17	-0.30	0.56	0.62	-1.27	0.39	0.29	0.05	-0.28	-0.86	-0.16	-0.77	-0.72	**-1.49**
3193	2,4,3,6,9,11,13,12,14,32,46,47,50,54	1.70	-0.38	1.23	1.19	1.13	1.41	2.47	-0.50	0.96	1.05	0.56	-0.90	1.28	-0.33	-0.16	-0.77	0.98	**10.91**
3194	2,4,3,6,9,11,13,12,14,32,46,49,53,54	1.66	-0.64	1.21	1.14	1.10	0.55	2.23	0.03	0.38	0.92	0.72	0.05	1.24	-0.33	-0.16	-0.77	0.98	**10.30**
3195	2,4,3,6,9,11,13,12,14,32,48,51	1.16	-1.15	1.95	0.55	-0.85	1.41	2.95	-0.67	0.13	0.82	0.21	-0.90	1.75	-0.33	-0.16	-0.77	0.98	**7.06**
3196	2,4,3,6,9,11,13,12,14,32,48,52,53,54	0.83	-1.15	1.60	0.16	-0.31	0.55	2.71	-0.50	0.25	0.82	-0.11	-1.85	1.26	-0.33	-0.16	-0.77	0.98	**3.97**
3197	2,4,3,6,9,11,13,15,23,26,30,32,46,47,50,54	1.09	1.96	0.40	-0.92	0.31	0.98	1.04	-0.27	2.05	-0.15	0.80	-0.90	1.02	-0.56	-0.16	1.14	0.98	**8.79**
3198	2,4,3,6,9,11,13,15,23,26,30,32,46,49,53,54	1.04	1.70	0.39	-0.97	0.28	0.13	0.80	0.25	1.47	-0.28	0.96	0.05	0.99	-0.56	-0.16	1.14	0.98	**8.19**
3199	2,4,3,6,9,11,13,15,23,26,30,32,48,51	0.54	1.18	1.13	-1.57	-1.68	0.98	1.52	-0.45	1.22	-0.39	0.45	-0.90	1.50	-0.56	-0.16	1.14	0.98	**4.94**
3200	2,4,3,6,9,11,13,15,23,26,30,32,48,52,53,54	0.22	1.18	0.78	-1.95	-1.14	0.13	1.28	-0.27	1.34	-0.39	0.13	-1.85	1.01	-0.56	-0.16	1.14	0.98	**1.85**
3201	2,4,3,6,9,11,13,15,23,26,31,34,35,37,40,41,44,55	-0.74	0.66	-0.49	-0.90	0.57	-1.16	-1.59	0.15	0.44	-0.77	0.00	-0.90	-0.51	-1.29	-0.16	1.14	-0.72	**-6.28**
3202	2,4,3,6,9,11,13,15,23,26,31,34,35,37,40,41,45,55	0.96	1.70	0.35	0.11	0.08	0.98	-0.40	0.72	1.77	0.04	0.70	-0.90	0.37	-1.29	-0.16	1.14	-0.72	**5.46**
3203	2,4,3,6,9,11,13,15,23,26,31,34,35,37,40,43,47,46,48,51	0.01	1.70	-0.01	0.89	-0.65	0.13	-0.40	0.15	-0.13	-0.89	1.13	1.01	-0.17	-1.29	-0.16	1.14	-0.72	**1.72**
3204	2,4,3,6,9,11,13,15,23,26,31,34,35,37,40,43,47,46,48,52,53,54	-0.32	1.70	-0.37	0.51	-0.11	-0.73	-0.64	0.32	-0.01	-0.89	0.81	0.05	-0.66	-1.29	-0.16	1.14	-0.72	**-1.37**
3205	2,4,3,6,9,11,13,15,23,26,31,34,35,37,40,43,47,49,53,54	-1.25	1.96	-1.24	-0.59	0.74	-0.73	-1.59	0.84	0.12	-0.79	-0.30	0.05	-1.03	-1.29	-0.16	1.14	-0.72	**-4.83**
3206	2,4,3,6,9,11,13,15,23,26,31,34,35,37,40,43,50,54	-1.35	1.44	-1.26	-0.71	0.68	-0.73	-1.35	0.32	0.70	-0.75	-0.54	-0.90	-1.07	-1.29	-0.16	1.14	-0.72	**-6.55**
3207	2,4,3,6,9,11,13,15,23,26,31,34,35,37,42,46,48,51	-0.13	0.92	-0.05	0.81	-0.69	-0.73	-0.40	0.15	-0.13	-0.93	1.09	1.01	-0.25	-1.29	-0.16	1.14	-0.72	**-0.35**
3208	2,4,3,6,9,11,13,15,23,26,31,34,35,37,42,46,48,52,53,54	-0.45	0.92	-0.41	0.43	-0.15	-1.59	-0.64	0.32	-0.01	-0.93	0.77	0.05	-0.73	-1.29	-0.16	1.14	-0.72	**-3.44**
3209	2,4,3,6,9,11,13,15,23,26,31,34,35,37,42,47,50,54	-1.34	1.18	-1.25	-0.62	0.73	-0.73	-1.35	0.32	0.70	-0.70	-0.51	-0.90	-1.07	-1.29	-0.16	1.14	-0.72	**-6.58**
3210	2,4,3,6,9,11,13,15,23,26,31,34,35,37,42,49,53,54	-1.38	0.92	-1.27	-0.67	0.70	-1.59	-1.59	0.84	0.12	-0.82	-0.33	0.05	-1.10	-1.29	-0.16	1.14	-0.72	**-7.16**
3211	2,4,3,6,9,11,13,15,23,26,31,34,36,39,41,40,42,46,48,51	1.21	1.70	1.08	1.07	-1.31	-0.73	0.32	0.29	-0.16	1.05	0.02	1.01	0.80	-1.29	-0.16	1.14	-0.72	**5.30**
3212	2,4,3,6,9,11,13,15,23,26,31,34,36,39,41,40,42,46,48,52,53,54	0.88	1.70	0.72	0.68	-0.77	-1.59	0.08	0.47	-0.04	1.05	-0.29	0.05	0.31	-1.29	-0.16	1.14	-0.72	**2.22**
3213	2,4,3,6,9,11,13,15,23,26,31,34,36,39,41,40,42,47,50,54	0.00	1.96	-0.13	-0.37	0.11	-0.73	-0.64	0.47	0.67	1.28	-1.58	-0.90	-0.02	-1.29	-0.16	1.14	-0.72	**-0.92**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
3214	2,4,3,6,9,11,13,15,23,26,31,34,36,39,41,40,42,49,53,54	-0.05	1.70	-0.15	-0.42	0.08	-1.59	-0.87	0.99	0.09	1.15	-1.40	0.05	-0.06	-1.29	-0.16	1.14	-0.72	**-1.51**
3215	2,4,3,6,9,11,13,15,23,26,31,34,36,39,41,43,47,46,48,51	1.21	1.96	1.08	1.15	-1.26	-0.73	0.32	0.29	-0.16	1.08	0.03	1.01	0.80	-1.29	-0.16	1.14	-0.72	**5.73**
3216	2,4,3,6,9,11,13,15,23,26,31,34,36,39,41,43,47,46,48,52,53,54	0.88	1.96	0.72	0.76	-0.73	-1.59	0.08	0.47	-0.04	1.08	-0.29	0.05	0.31	-1.29	-0.16	1.14	-0.72	**2.65**
3217	2,4,3,6,9,11,13,15,23,26,31,34,36,39,41,43,47,49,53,54	-0.05	2.22	-0.14	-0.34	0.13	-1.59	-0.87	0.99	0.09	1.18	-1.39	0.05	-0.06	-1.29	-0.16	1.14	-0.72	**-0.82**
3218	2,4,3,6,9,11,13,15,23,26,31,34,36,39,41,43,50,54	-0.14	1.70	-0.16	-0.46	0.06	-1.59	-0.64	0.47	0.67	1.23	-1.64	-0.90	-0.10	-1.29	-0.16	1.14	-0.72	**-2.54**
3219	2,4,3,6,9,11,13,15,23,26,31,34,36,39,44,55	-1.08	0.40	0.19	-0.65	-0.05	-2.02	-1.83	0.29	0.41	1.20	-1.79	-0.90	-0.16	-1.29	-0.16	1.14	-0.72	**-7.01**
3220	2,4,3,6,9,11,13,15,23,26,31,34,36,39,45,55	0.62	1.44	1.03	0.37	-0.54	0.13	-0.64	0.87	1.74	2.01	-1.08	-0.90	0.71	-1.29	-0.16	1.14	-0.72	**4.72**
3221	2,4,3,6,9,11,13,15,23,26,31,34,38,40,42,46,48,51	-0.09	0.92	-0.05	0.78	0.03	-0.30	-0.40	0.51	0.19	-0.92	1.05	1.01	-0.24	-1.29	-0.16	1.14	1.40	**3.60**
3222	2,4,3,6,9,11,13,15,23,26,31,34,38,40,42,46,48,52,53,54	-0.41	0.92	-0.41	0.40	0.57	-1.16	-0.64	0.69	0.32	-0.92	0.73	0.05	-0.72	-1.29	-0.16	1.14	1.40	**0.51**
3223	2,4,3,6,9,11,13,15,23,26,31,34,38,40,42,47,50,54	-1.30	1.18	-1.26	-0.65	1.45	-0.30	-1.35	0.69	1.02	-0.68	-0.55	-0.90	-1.06	-1.29	-0.16	1.14	1.40	**-2.62**
3224	2,4,3,6,9,11,13,15,23,26,31,34,38,40,42,49,53,54	-1.34	0.92	-1.27	-0.70	1.42	-1.16	-1.59	1.21	0.44	-0.81	-0.37	0.05	-1.10	-1.29	-0.16	1.14	1.40	**-3.21**
3225	2,4,3,6,9,11,13,15,23,26,31,34,38,41,44,55	-0.83	0.14	-0.52	-0.94	1.29	-1.59	-1.59	0.51	0.77	-0.76	-0.08	-0.90	-0.57	-1.29	-0.16	1.14	1.40	**-3.97**
3226	2,4,3,6,9,11,13,15,23,26,31,34,38,41,45,55	0.87	1.18	0.32	0.08	0.80	0.55	-0.40	1.09	2.09	0.05	0.63	-0.90	0.31	-1.29	-0.16	1.14	1.40	**7.76**
3227	2,4,3,6,9,11,13,15,23,26,31,34,38,43,47,46,48,51	-0.08	0.66	-0.05	0.86	0.07	-0.30	-0.40	0.51	0.19	-0.88	1.06	1.01	-0.24	-1.29	-0.16	1.14	1.40	**3.51**
3228	2,4,3,6,9,11,13,15,23,26,31,34,38,43,47,46,48,52,53,54	-0.41	0.66	-0.41	0.47	0.61	-1.16	-0.64	0.69	0.32	-0.88	0.74	0.05	-0.72	-1.29	-0.16	1.14	1.40	**0.42**
3229	2,4,3,6,9,11,13,15,23,26,31,34,38,43,47,49,53,54	-1.34	0.92	-1.27	-0.62	1.46	-1.16	-1.59	1.21	0.44	-0.78	-0.37	0.05	-1.09	-1.29	-0.16	1.14	1.40	**-3.04**
3230	2,4,3,6,9,11,13,15,23,26,31,34,38,43,50,54	-1.44	0.40	-1.29	-0.74	1.40	-1.16	-1.35	0.69	1.02	-0.74	-0.61	-0.90	-1.13	-1.29	-0.16	1.14	1.40	**-4.76**
3231	2,4,3,6,9,11,13,15,23,26,33,37,40,41,44,55	-0.80	-0.38	-0.52	-0.93	0.21	-1.16	-1.35	0.15	0.14	-0.75	-0.06	-0.90	-0.53	-1.29	-0.16	1.14	-0.72	**-7.91**
3232	2,4,3,6,9,11,13,15,23,26,33,37,40,41,45,55	0.90	0.66	0.32	0.09	-0.28	0.98	-0.16	0.72	1.47	0.06	0.65	-0.90	0.35	-1.29	-0.16	1.14	-0.72	**3.82**
3233	2,4,3,6,9,11,13,15,23,26,33,37,40,43,47,46,48,51	-0.06	0.66	-0.04	0.87	-1.00	0.13	-0.16	0.15	-0.43	-0.88	1.08	1.01	-0.19	-1.29	-0.16	1.14	-0.72	**0.09**
3234	2,4,3,6,9,11,13,15,23,26,33,37,40,43,47,46,48,52,53,54	-0.39	0.66	-0.40	0.48	-0.47	-0.73	-0.40	0.32	-0.31	-0.88	0.76	0.05	-0.68	-1.29	-0.16	1.14	-0.72	**-3.00**
3235	2,4,3,6,9,11,13,15,23,26,33,37,40,43,47,49,53,54	-1.31	0.92	-1.27	-0.62	0.39	-0.73	-1.35	0.84	-0.18	-0.77	-0.35	0.05	-1.05	-1.29	-0.16	1.14	-0.72	**-6.47**
3236	2,4,3,6,9,11,13,15,23,26,33,37,40,43,50,54	-1.41	0.40	-1.29	-0.73	0.32	-0.73	-1.11	0.32	0.40	-0.73	-0.59	-0.90	-1.09	-1.29	-0.16	1.14	-0.72	**-8.18**
3237	2,4,3,6,9,11,13,15,23,26,33,37,42,46,48,51	-0.19	-0.12	-0.08	0.79	-1.05	-0.73	-0.16	0.15	-0.43	-0.91	1.04	1.01	-0.27	-1.29	-0.16	1.14	-0.72	**-1.99**
3238	2,4,3,6,9,11,13,15,23,26,33,37,42,46,48,52,53,54	-0.52	-0.12	-0.44	0.40	-0.51	-1.59	-0.40	0.32	-0.31	-0.91	0.72	0.05	-0.75	-1.29	-0.16	1.14	-0.72	**-5.07**
3239	2,4,3,6,9,11,13,15,23,26,33,37,42,47,50,54	-1.40	0.14	-1.29	-0.64	0.37	-0.73	-1.11	0.32	0.40	-0.68	-0.57	-0.90	-1.09	-1.29	-0.16	1.14	-0.72	**-8.21**
3240	2,4,3,6,9,11,13,15,23,26,33,37,42,49,53,54	-1.45	-0.12	-1.31	-0.70	0.34	-1.59	-1.35	0.84	-0.18	-0.81	-0.38	0.05	-1.12	-1.29	-0.16	1.14	-0.72	**-8.80**
3241	2,4,3,6,9,11,13,15,23,27,28,31,30,32,46,47,50,54	1.12	1.96	0.36	-0.90	0.51	0.98	1.04	-0.27	1.69	0.22	0.54	-0.90	0.99	-0.56	-0.16	-0.77	0.98	**6.84**
3242	2,4,3,6,9,11,13,15,23,27,28,31,30,32,46,49,53,54	1.08	1.70	0.34	-0.95	0.48	0.13	0.80	0.25	1.11	0.09	0.70	0.05	0.95	-0.56	-0.16	-0.77	0.98	**6.23**
3243	2,4,3,6,9,11,13,15,23,27,28,31,30,32,48,51	0.58	1.18	1.09	-1.54	-1.47	0.98	1.52	-0.45	0.87	-0.02	0.20	-0.90	1.46	-0.56	-0.16	-0.77	0.98	**2.98**
3244	2,4,3,6,9,11,13,15,23,27,28,31,30,32,48,52,53,54	0.25	1.18	0.74	-1.93	-0.93	0.13	1.28	-0.27	0.99	-0.02	-0.12	-1.85	0.98	-0.56	-0.16	-0.77	0.98	**-0.11**
3245	2,4,3,6,9,11,13,15,23,27,28,31,33,37,40,41,44,55	-0.77	0.14	-0.56	-0.90	0.42	-1.16	-1.35	0.15	-0.21	-0.38	-0.31	-0.90	-0.56	-1.29	-0.16	-0.77	-0.72	**-9.35**
3246	2,4,3,6,9,11,13,15,23,27,28,31,33,37,40,41,45,55	0.93	1.18	0.28	0.12	-0.07	0.98	-0.16	0.72	1.11	0.43	0.39	-0.90	0.31	-1.29	-0.16	-0.77	-0.72	**2.39**
3247	2,4,3,6,9,11,13,15,23,27,28,31,33,37,40,43,47,46,48,51	-0.02	1.18	-0.09	0.90	-0.80	0.13	-0.16	0.15	-0.79	-0.51	0.82	1.01	-0.23	-1.29	-0.16	-0.77	-0.72	**-1.35**
3248	2,4,3,6,9,11,13,15,23,27,28,31,33,37,40,43,47,46,48,52,53,54	-0.35	1.18	-0.44	0.51	-0.26	-0.73	-0.40	0.32	-0.66	-0.51	0.50	0.05	-0.71	-1.29	-0.16	-0.77	-0.72	**-4.44**
3249	2,4,3,6,9,11,13,15,23,27,28,31,33,37,40,43,47,49,53,54	-1.28	1.44	-1.31	-0.59	0.59	-0.73	-1.35	0.84	-0.54	-0.40	-0.61	0.05	-1.08	-1.29	-0.16	-0.77	-0.72	**-7.91**
3250	2,4,3,6,9,11,13,15,23,27,28,31,33,37,40,43,50,54	-1.38	0.92	-1.33	-0.71	0.53	-0.73	-1.11	0.32	0.04	-0.36	-0.85	-0.90	-1.13	-1.29	-0.16	-0.77	-0.72	**-9.62**
3251	2,4,3,6,9,11,13,15,23,27,28,31,33,37,42,46,48,51	-0.16	0.40	-0.12	0.82	-0.84	-0.73	-0.16	0.15	-0.79	-0.54	0.78	1.01	-0.30	-1.29	-0.16	-0.77	-0.72	**-3.43**
3252	2,4,3,6,9,11,13,15,23,27,28,31,33,37,42,46,48,52,53,54	-0.48	0.40	-0.48	0.43	-0.30	-1.59	-0.40	0.32	-0.66	-0.54	0.46	0.05	-0.79	-1.29	-0.16	-0.77	-0.72	**-6.51**
3253	2,4,3,6,9,11,13,15,23,27,28,31,33,37,42,47,50,54	-1.37	0.66	-1.33	-0.62	0.58	-0.73	-1.11	0.32	0.04	-0.31	-0.83	-0.90	-1.12	-1.29	-0.16	-0.77	-0.72	**-9.65**
3254	2,4,3,6,9,11,13,15,23,27,28,31,33,37,42,49,53,54	-1.41	0.40	-1.35	-0.67	0.55	-1.59	-1.35	0.84	-0.54	-0.44	-0.64	0.05	-1.16	-1.29	-0.16	-0.77	-0.72	**-10.24**
3255	2,4,3,6,9,11,13,15,23,27,28,34,35,37,40,41,44,55	-0.80	0.14	-0.55	-0.88	0.78	-1.16	-1.59	0.15	0.09	-0.43	-0.34	-0.90	-0.61	-1.29	-0.16	-0.77	-0.72	**-9.04**
3256	2,4,3,6,9,11,13,15,23,27,28,34,35,37,40,41,45,55	0.90	1.18	0.29	0.14	0.29	0.98	-0.40	0.72	1.41	0.38	0.37	-0.90	0.27	-1.29	-0.16	-0.77	-0.72	**2.69**
3257	2,4,3,6,9,11,13,15,23,27,28,34,35,37,40,43,47,46,48,51	-0.05	1.18	-0.08	0.92	-0.44	0.13	-0.40	0.15	-0.48	-0.55	0.79	1.01	-0.27	-1.29	-0.16	-0.77	-0.72	**-1.05**
3258	2,4,3,6,9,11,13,15,23,27,28,34,35,37,40,43,47,46,48,52,53,54	-0.38	1.18	-0.44	0.53	0.10	-0.73	-0.64	0.32	-0.36	-0.55	0.47	0.05	-0.76	-1.29	-0.16	-0.77	-0.72	**-4.13**
3259	2,4,3,6,9,11,13,15,23,27,28,34,35,37,40,43,47,49,53,54	-1.31	1.44	-1.30	-0.57	0.95	-0.73	-1.59	0.84	-0.24	-0.45	-0.63	0.05	-1.13	-1.29	-0.16	-0.77	-0.72	**-7.60**
3260	2,4,3,6,9,11,13,15,23,27,28,34,35,37,40,43,50,54	-1.41	0.92	-1.32	-0.69	0.88	-0.73	-1.35	0.32	0.34	-0.40	-0.87	-0.90	-1.17	-1.29	-0.16	-0.77	-0.72	**-9.32**
3261	2,4,3,6,9,11,13,15,23,27,28,34,35,37,42,46,48,51	-0.18	0.40	-0.12	0.84	-0.48	-0.73	-0.40	0.15	-0.48	-0.58	0.76	1.01	-0.35	-1.29	-0.16	-0.77	-0.72	**-3.12**
3262	2,4,3,6,9,11,13,15,23,27,28,34,35,37,42,46,48,52,53,54	-0.51	0.40	-0.47	0.45	0.05	-1.59	-0.64	0.32	-0.36	-0.58	0.44	0.05	-0.83	-1.29	-0.16	-0.77	-0.72	**-6.20**
3263	2,4,3,6,9,11,13,15,23,27,28,34,35,37,42,47,50,54	-1.40	0.66	-1.32	-0.60	0.93	-0.73	-1.35	0.32	0.34	-0.35	-0.85	-0.90	-1.17	-1.29	-0.16	-0.77	-0.72	**-9.34**
3264	2,4,3,6,9,11,13,15,23,27,28,34,35,37,42,49,53,54	-1.44	0.40	-1.34	-0.65	0.90	-1.59	-1.59	0.84	-0.24	-0.48	-0.67	0.05	-1.20	-1.29	-0.16	-0.77	-0.72	**-9.93**
3265	2,4,3,6,9,11,13,15,23,27,28,34,36,39,41,40,42,46,48,51	1.15	1.18	1.01	1.09	-1.10	-0.73	0.32	0.29	-0.51	1.39	-0.31	1.01	0.70	-1.29	-0.16	-0.77	-0.72	**2.54**
3266	2,4,3,6,9,11,13,15,23,27,28,34,36,39,41,40,42,46,48,52,53,54	0.82	1.18	0.66	0.71	-0.56	-1.59	0.08	0.47	-0.39	1.39	-0.63	0.05	0.21	-1.29	-0.16	-0.77	-0.72	**-0.55**
3267	2,4,3,6,9,11,13,15,23,27,28,34,36,39,41,40,42,47,50,54	-0.06	1.44	-0.19	-0.34	0.32	-0.73	-0.64	0.47	0.31	1.62	-1.92	-0.90	-0.12	-1.29	-0.16	-0.77	-0.72	**-3.69**
3268	2,4,3,6,9,11,13,15,23,27,28,34,36,39,41,40,42,49,53,54	-0.11	1.18	-0.21	-0.39	0.29	-1.59	-0.87	0.99	-0.27	1.49	-1.73	0.05	-0.16	-1.29	-0.16	-0.77	-0.72	**-4.27**
3269	2,4,3,6,9,11,13,15,23,27,28,34,36,39,41,43,47,46,48,51	1.15	1.44	1.01	1.17	-1.06	-0.73	0.32	0.29	-0.51	1.42	-0.31	1.01	0.70	-1.29	-0.16	-0.77	-0.72	**2.97**
3270	2,4,3,6,9,11,13,15,23,27,28,34,36,39,41,43,47,46,48,52,53,54	0.82	1.44	0.66	0.79	-0.52	-1.59	0.08	0.47	-0.39	1.42	-0.63	0.05	0.22	-1.29	-0.16	-0.77	-0.72	**-0.12**
3271	2,4,3,6,9,11,13,15,23,27,28,34,36,39,41,43,47,49,53,54	-0.10	1.70	-0.21	-0.31	0.33	-1.59	-0.87	0.99	-0.27	1.53	-1.73	0.05	-0.16	-1.29	-0.16	-0.77	-0.72	**-3.58**
3272	2,4,3,6,9,11,13,15,23,27,28,34,36,39,41,43,50,54	-0.20	1.18	-0.23	-0.43	0.27	-1.59	-0.64	0.47	0.31	1.57	-1.97	-0.90	-0.20	-1.29	-0.16	-0.77	-0.72	**-5.30**
3273	2,4,3,6,9,11,13,15,23,27,28,34,36,39,44,55	-1.14	-0.12	0.12	-0.62	0.16	-2.02	-1.83	0.29	0.06	1.55	-2.12	-0.90	-0.26	-1.29	-0.16	-0.77	-0.72	**-9.78**
3274	2,4,3,6,9,11,13,15,23,27,28,34,36,39,45,55	0.56	0.92	0.96	0.40	-0.33	0.13	-0.64	0.87	1.38	2.36	-1.42	-0.90	0.61	-1.29	-0.16	-0.77	-0.72	**1.96**
3275	2,4,3,6,9,11,13,15,23,27,28,34,38,40,42,46,48,51	-0.15	0.40	-0.12	0.81	0.23	-0.30	-0.40	0.51	-0.16	-0.57	0.72	1.01	-0.34	-1.29	-0.16	-0.77	1.40	**0.84**
3276	2,4,3,6,9,11,13,15,23,27,28,34,38,40,42,46,48,52,53,54	-0.47	0.40	-0.47	0.42	0.77	-1.16	-0.64	0.69	-0.04	-0.57	0.40	0.05	-0.82	-1.29	-0.16	-0.77	1.40	**-2.25**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
3277	2,4,3,6,9,11,13,15,23,27,28,34,38,40,42,47,50,54	-1.36	0.66	-1.32	-0.63	1.65	-0.30	-1.35	0.69	0.67	-0.34	-0.89	-0.90	-1.16	-1.29	-0.16	-0.77	1.40	**-5.39**
3278	2,4,3,6,9,11,13,15,23,27,28,34,38,40,42,49,53,54	-1.40	0.40	-1.34	-0.68	1.62	-1.16	-1.59	1.21	0.09	-0.47	-0.71	0.05	-1.19	-1.29	-0.16	-0.77	1.40	**-5.98**
3279	2,4,3,6,9,11,13,15,23,27,28,34,38,41,44,55	-0.89	-0.38	-0.59	-0.91	1.49	-1.59	-1.59	0.51	0.41	-0.42	-0.42	-0.90	-0.67	-1.29	-0.16	-0.77	1.40	**-6.74**
3280	2,4,3,6,9,11,13,15,23,27,28,34,38,41,45,55	0.81	0.66	0.25	0.11	1.00	0.55	-0.40	1.09	1.74	0.39	0.29	-0.90	0.21	-1.29	-0.16	-0.77	1.40	**5.00**
3281	2,4,3,6,9,11,13,15,23,27,28,34,38,43,47,46,48,51	-0.14	0.14	-0.12	0.89	0.28	-0.30	-0.40	0.51	-0.16	-0.54	0.72	1.01	-0.33	-1.29	-0.16	-0.77	1.40	**0.74**
3282	2,4,3,6,9,11,13,15,23,27,28,34,38,43,47,46,48,52,53,54	-0.47	0.14	-0.47	0.50	0.81	-1.16	-0.64	0.69	-0.04	-0.54	0.40	0.05	-0.82	-1.29	-0.16	-0.77	1.40	**-2.34**
3283	2,4,3,6,9,11,13,15,23,27,28,34,38,43,47,49,53,54	-1.40	0.40	-1.34	-0.60	1.67	-1.16	-1.59	1.21	0.09	-0.43	-0.70	0.05	-1.19	-1.29	-0.16	-0.77	1.40	**-5.81**
3284	2,4,3,6,9,11,13,15,23,27,28,34,38,43,50,54	-1.50	-0.12	-1.36	-0.72	1.60	-1.16	-1.35	0.69	0.67	-0.39	-0.94	-0.90	-1.23	-1.29	-0.16	-0.77	1.40	**-7.53**
3285	2,4,3,6,9,11,13,16,18,19,22,24,29,36,35,37,40,41,44,55	0.85	1.18	0.61	-0.64	-0.04	-0.30	-0.40	-0.97	0.10	-0.55	0.61	-0.90	1.10	1.51	-0.16	-0.77	-0.72	**0.50**
3286	2,4,3,6,9,11,13,16,18,19,22,24,29,36,35,37,40,41,45,55	2.55	2.22	1.45	0.38	-0.53	1.84	0.80	-0.40	1.42	0.26	1.32	-0.90	1.97	1.51	-0.16	-0.77	-0.72	**12.24**
3287	2,4,3,6,9,11,13,16,18,19,22,24,29,36,35,37,40,43,47,46,48,51	1.59	2.22	1.09	1.16	-1.26	0.98	0.80	-0.97	-0.47	-0.67	1.75	1.01	1.43	1.51	-0.16	-0.77	-0.72	**8.50**
3288	2,4,3,6,9,11,13,16,18,19,22,24,29,36,35,37,40,43,47,46,48,52,53,54	1.26	2.22	0.73	0.77	-0.72	0.13	0.56	-0.80	-0.35	-0.67	1.43	0.05	0.95	1.51	-0.16	-0.77	-0.72	**5.41**
3289	2,4,3,6,9,11,13,16,18,19,22,24,29,36,35,37,40,43,47,49,53,54	0.34	2.48	-0.14	-0.33	0.13	0.13	-0.40	-0.28	-0.23	-0.57	0.32	0.05	0.58	1.51	-0.16	-0.77	-0.72	**1.95**
3290	2,4,3,6,9,11,13,16,18,19,22,24,29,36,35,37,40,43,50,54	0.24	1.96	-0.16	-0.45	0.06	0.13	-0.16	-0.80	0.36	-0.52	0.08	-0.90	0.53	1.51	-0.16	-0.77	-0.72	**0.23**
3291	2,4,3,6,9,11,13,16,18,19,22,24,29,36,35,37,42,46,48,51	1.46	1.44	1.05	1.08	-1.30	0.13	0.80	-0.97	-0.47	-0.71	1.71	1.01	1.36	1.51	-0.16	-0.77	-0.72	**6.43**
3292	2,4,3,6,9,11,13,16,18,19,22,24,29,36,35,37,42,46,48,52,53,54	1.13	1.44	0.69	0.69	-0.77	-0.73	0.56	-0.80	-0.35	-0.71	1.39	0.05	0.87	1.51	-0.16	-0.77	-0.72	**3.34**
3293	2,4,3,6,9,11,13,16,18,19,22,24,29,36,35,37,42,47,50,54	0.25	1.70	-0.15	-0.36	0.11	0.13	-0.16	-0.80	0.36	-0.47	0.10	-0.90	0.54	1.51	-0.16	-0.77	-0.72	**0.20**
3294	2,4,3,6,9,11,13,16,18,19,22,24,29,36,35,37,42,49,53,54	0.20	1.44	-0.17	-0.41	0.08	-0.73	-0.40	-0.28	-0.23	-0.60	0.29	0.05	0.50	1.51	-0.16	-0.77	-0.72	**-0.38**
3295	2,4,3,6,9,11,13,16,18,19,22,24,29,36,38,40,42,46,48,51	1.50	1.70	1.05	1.05	-0.59	0.55	0.80	-0.61	-0.15	-0.69	1.67	1.01	1.37	1.51	-0.16	-0.77	1.40	**10.64**
3296	2,4,3,6,9,11,13,16,18,19,22,24,29,36,38,40,42,46,48,52,53,54	1.17	1.70	0.69	0.66	-0.05	-0.30	0.56	-0.43	-0.03	-0.69	1.35	0.05	0.88	1.51	-0.16	-0.77	1.40	**7.55**
3297	2,4,3,6,9,11,13,16,18,19,22,24,29,36,38,40,42,47,50,54	0.29	1.96	-0.15	-0.39	0.83	0.55	-0.16	-0.43	0.68	-0.46	0.06	-0.90	0.55	1.51	-0.16	-0.77	1.40	**4.41**
3298	2,4,3,6,9,11,13,16,18,19,22,24,29,36,38,40,42,49,53,54	0.24	1.70	-0.17	-0.44	0.80	-0.30	-0.40	0.09	0.10	-0.59	0.25	0.05	0.51	1.51	-0.16	-0.77	1.40	**3.83**
3299	2,4,3,6,9,11,13,16,18,19,22,24,29,36,38,41,44,55	0.75	0.92	0.58	-0.67	0.67	-0.73	-0.40	-0.61	0.42	-0.54	0.54	-0.90	1.03	1.51	-0.16	-0.77	1.40	**3.07**
3300	2,4,3,6,9,11,13,16,18,19,22,24,29,36,38,41,45,55	2.46	1.96	1.42	0.35	0.18	1.41	0.80	-0.03	1.75	0.27	1.24	-0.90	1.91	1.51	-0.16	-0.77	1.40	**14.80**
3301	2,4,3,6,9,11,13,16,18,19,22,24,29,36,38,43,47,46,48,51	1.50	1.44	1.05	1.13	-0.54	0.55	0.80	-0.61	-0.15	-0.66	1.67	1.01	1.37	1.51	-0.16	-0.77	1.40	**10.55**
3302	2,4,3,6,9,11,13,16,18,19,22,24,29,36,38,43,47,46,48,52,53,54	1.17	1.44	0.70	0.74	-0.01	-0.30	0.56	-0.43	-0.03	-0.66	1.36	0.05	0.89	1.51	-0.16	-0.77	1.40	**7.46**
3303	2,4,3,6,9,11,13,16,18,19,22,24,29,36,38,43,47,49,53,54	0.24	1.70	-0.17	-0.36	0.85	-0.30	-0.40	0.09	0.10	-0.56	0.25	0.05	0.51	1.51	-0.16	-0.77	1.40	**4.00**
3304	2,4,3,6,9,11,13,16,18,19,22,24,29,36,38,43,50,54	0.15	1.18	-0.19	-0.48	0.78	-0.30	-0.16	-0.43	0.68	-0.51	0.01	-0.90	0.47	1.51	-0.16	-0.77	1.40	**2.28**
3305	2,4,3,6,9,11,13,16,18,19,22,24,29,39,41,40,42,46,48,51	1.70	1.44	1.88	0.70	-1.92	-0.73	1.52	-0.83	-0.50	0.63	0.40	1.01	1.85	1.51	-0.16	-0.77	-0.72	**6.99**
3306	2,4,3,6,9,11,13,16,18,19,22,24,29,39,41,40,42,46,48,52,53,54	1.37	1.44	1.53	0.32	-1.39	-1.59	1.28	-0.65	-0.38	0.63	0.08	0.05	1.36	1.51	-0.16	-0.77	-0.72	**3.90**
3307	2,4,3,6,9,11,13,16,18,19,22,24,29,39,41,40,42,47,50,54	0.49	1.70	0.68	-0.73	-0.51	-0.73	0.56	-0.65	0.33	0.86	-1.21	-0.90	1.02	1.51	-0.16	-0.77	-0.72	**0.77**
3308	2,4,3,6,9,11,13,16,18,19,22,24,29,39,41,40,42,49,53,54	0.44	1.44	0.66	-0.78	-0.53	-1.59	0.32	-0.13	-0.26	0.73	-1.02	0.05	0.99	1.51	-0.16	-0.77	-0.72	**0.18**
3309	2,4,3,6,9,11,13,16,18,19,22,24,29,39,41,43,47,46,48,51	1.70	1.70	1.88	0.78	-1.88	-0.73	1.52	-0.83	-0.50	0.66	0.41	1.01	1.85	1.51	-0.16	-0.77	-0.72	**7.42**
3310	2,4,3,6,9,11,13,16,18,19,22,24,29,39,41,43,47,46,48,52,53,54	1.37	1.70	1.53	0.40	-1.34	-1.59	1.28	-0.65	-0.38	0.66	0.09	0.05	1.36	1.51	-0.16	-0.77	-0.72	**4.33**
3311	2,4,3,6,9,11,13,16,18,19,22,24,29,39,41,43,47,49,53,54	0.45	1.96	0.66	-0.70	-0.49	-1.59	0.32	-0.13	-0.26	0.76	-1.02	0.05	0.99	1.51	-0.16	-0.77	-0.72	**0.87**
3312	2,4,3,6,9,11,13,16,18,19,22,24,29,39,41,43,50,54	0.35	1.44	0.64	-0.82	-0.56	-1.59	0.56	-0.65	0.33	0.81	-1.26	-0.90	0.95	1.51	-0.16	-0.77	-0.72	**-0.85**
3313	2,4,3,6,9,11,13,16,18,19,22,24,29,39,44,55	-0.59	0.14	0.99	-1.01	-0.66	-2.02	-0.64	-0.83	0.07	0.78	-1.41	-0.90	0.89	1.51	-0.16	-0.77	-0.72	**-5.33**
3314	2,4,3,6,9,11,13,16,18,19,22,24,29,39,45,55	1.11	1.18	1.83	0.01	-1.15	0.13	0.56	-0.25	1.39	1.59	-0.71	-0.90	1.76	1.51	-0.16	-0.77	-0.72	**6.41**
3315	2,4,3,6,9,11,13,16,18,19,22,25,29,36,35,37,40,41,44,55	0.63	0.92	0.55	-1.07	0.29	-0.30	-0.16	-0.95	-0.34	-0.48	0.25	-0.90	1.04	1.55	-0.16	-0.77	-0.72	**-0.63**
3316	2,4,3,6,9,11,13,16,18,19,22,25,29,36,35,37,40,41,45,55	2.33	1.96	1.39	-0.05	-0.20	1.84	1.04	-0.37	0.99	0.33	0.96	-0.90	1.91	1.55	-0.16	-0.77	-0.72	**11.11**
3317	2,4,3,6,9,11,13,16,18,19,22,25,29,36,35,37,40,43,47,46,48,51	1.38	1.96	1.03	0.72	-0.93	0.98	1.04	-0.95	-0.91	-0.60	1.38	1.01	1.37	1.55	-0.16	-0.77	-0.72	**7.37**
3318	2,4,3,6,9,11,13,16,18,19,22,25,29,36,35,37,40,43,47,46,48,52,53,54	1.05	1.96	0.67	0.34	-0.39	0.13	0.80	-0.77	-0.79	-0.60	1.06	0.05	0.89	1.55	-0.16	-0.77	-0.72	**4.28**
3319	2,4,3,6,9,11,13,16,18,19,22,25,29,36,35,37,40,43,47,49,53,54	0.12	2.22	-0.19	-0.76	0.46	0.13	-0.16	-0.25	-0.66	-0.50	-0.04	0.05	0.52	1.55	-0.16	-0.77	-0.72	**0.82**
3320	2,4,3,6,9,11,13,16,18,19,22,25,29,36,35,37,40,43,50,54	0.02	1.70	-0.21	-0.88	0.40	0.13	0.08	-0.77	-0.08	-0.46	-0.28	-0.90	0.47	1.55	-0.16	-0.77	-0.72	**-0.90**
3321	2,4,3,6,9,11,13,16,18,19,22,25,29,36,35,37,42,46,48,51	1.24	1.18	0.99	0.65	-0.97	0.13	1.04	-0.95	-0.91	-0.64	1.34	1.01	1.30	1.55	-0.16	-0.77	-0.72	**5.30**
3322	2,4,3,6,9,11,13,16,18,19,22,25,29,36,35,37,42,46,48,52,53,54	0.92	1.18	0.64	0.26	-0.43	-0.73	0.80	-0.77	-0.79	-0.64	1.03	0.05	0.82	1.55	-0.16	-0.77	-0.72	**2.21**
3323	2,4,3,6,9,11,13,16,18,19,22,25,29,36,35,37,42,47,50,54	0.03	1.44	-0.21	-0.79	0.45	0.13	0.08	-0.77	-0.08	-0.40	-0.26	-0.90	0.48	1.55	-0.16	-0.77	-0.72	**-0.93**
3324	2,4,3,6,9,11,13,16,18,19,22,25,29,36,35,37,42,49,53,54	-0.01	1.18	-0.23	-0.84	0.42	-0.73	-0.16	-0.25	-0.66	-0.53	-0.08	0.05	0.44	1.55	-0.16	-0.77	-0.72	**-1.52**
3325	2,4,3,6,9,11,13,16,18,19,22,25,29,36,38,40,42,46,48,51	1.28	1.44	0.99	0.61	-0.25	0.55	1.04	-0.58	-0.59	-0.62	1.30	1.01	1.31	1.55	-0.16	-0.77	1.40	**9.51**
3326	2,4,3,6,9,11,13,16,18,19,22,25,29,36,38,40,42,46,48,52,53,54	0.96	1.44	0.64	0.23	0.28	-0.30	0.80	-0.41	-0.47	-0.62	0.98	0.05	0.82	1.55	-0.16	-0.77	1.40	**6.42**
3327	2,4,3,6,9,11,13,16,18,19,22,25,29,36,38,40,42,47,50,54	0.07	1.70	-0.21	-0.82	1.16	0.55	0.08	-0.41	0.24	-0.39	-0.30	-0.90	0.49	1.55	-0.16	-0.77	1.40	**3.28**
3328	2,4,3,6,9,11,13,16,18,19,22,25,29,36,38,40,42,49,53,54	0.03	1.44	-0.23	-0.87	1.13	-0.30	-0.16	0.12	-0.34	-0.52	-0.12	0.05	0.45	1.55	-0.16	-0.77	1.40	**2.70**
3329	2,4,3,6,9,11,13,16,18,19,22,25,29,36,38,41,44,55	0.54	0.66	0.52	-1.10	1.01	-0.73	-0.16	-0.58	-0.01	-0.47	0.17	-0.90	0.98	1.55	-0.16	-0.77	1.40	**1.93**
3330	2,4,3,6,9,11,13,16,18,19,22,25,29,36,38,41,45,55	2.24	1.70	1.36	-0.08	0.52	1.41	1.04	-0.01	1.31	0.34	0.88	-0.90	1.85	1.55	-0.16	-0.77	1.40	**13.67**
3331	2,4,3,6,9,11,13,16,18,19,22,25,29,36,38,43,47,46,48,51	1.28	1.18	0.99	0.69	-0.21	0.55	1.04	-0.58	-0.59	-0.59	1.31	1.01	1.31	1.55	-0.16	-0.77	1.40	**9.42**
3332	2,4,3,6,9,11,13,16,18,19,22,25,29,36,38,43,47,46,48,52,53,54	0.96	1.18	0.64	0.31	0.33	-0.30	0.80	-0.41	-0.47	-0.59	0.99	0.05	0.83	1.55	-0.16	-0.77	1.40	**6.33**
3333	2,4,3,6,9,11,13,16,18,19,22,25,29,36,38,43,47,49,53,54	0.03	1.44	-0.23	-0.79	1.18	-0.30	-0.16	0.12	-0.34	-0.49	-0.11	0.05	0.46	1.55	-0.16	-0.77	1.40	**2.87**
3334	2,4,3,6,9,11,13,16,18,19,22,25,29,36,38,43,50,54	-0.07	0.92	-0.25	-0.91	1.11	-0.30	0.08	-0.41	0.24	-0.44	-0.36	-0.90	0.41	1.55	-0.16	-0.77	1.40	**1.15**
3335	2,4,3,6,9,11,13,16,18,19,22,25,29,39,41,40,42,46,48,51	1.48	1.18	1.82	0.27	-1.59	-0.73	1.75	-0.81	-0.94	0.70	0.03	1.01	1.79	1.55	-0.16	-0.77	-0.72	**5.86**
3336	2,4,3,6,9,11,13,16,18,19,22,25,29,39,41,40,42,46,48,52,53,54	1.16	1.18	1.47	-0.12	-1.05	-1.59	1.52	-0.63	-0.82	0.70	-0.28	0.05	1.30	1.55	-0.16	-0.77	-0.72	**2.77**
3337	2,4,3,6,9,11,13,16,18,19,22,25,29,39,41,40,42,47,50,54	0.27	1.44	0.62	-1.16	-0.17	-0.73	0.80	-0.63	-0.11	0.93	-1.57	-0.90	0.97	1.55	-0.16	-0.77	-0.72	**-0.37**
3338	2,4,3,6,9,11,13,16,18,19,22,25,29,39,41,40,42,49,53,54	0.23	1.18	0.60	-1.21	-0.20	-1.59	0.56	-0.11	-0.69	0.80	-1.39	0.05	0.93	1.55	-0.16	-0.77	-0.72	**-0.95**
3339	2,4,3,6,9,11,13,16,18,19,22,25,29,39,41,43,47,46,48,51	1.49	1.44	1.83	0.35	-1.55	-0.73	1.75	-0.81	-0.94	0.73	0.04	1.01	1.79	1.55	-0.16	-0.77	-0.72	**6.29**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
3340	2,4,3,6,9,11,13,16,18,19,22,25,29,39,41,43,47,46,48,52,53,54	1.16	1.44	1.47	-0.04	-1.01	-1.59	1.52	-0.63	-0.82	0.73	-0.28	0.05	1.31	1.55	-0.16	-0.77	-0.72	**3.20**
3341	2,4,3,6,9,11,13,16,18,19,22,25,29,39,41,43,47,49,53,54	0.23	1.70	0.60	-1.14	-0.16	-1.59	0.56	-0.11	-0.69	0.83	-1.38	0.05	0.93	1.55	-0.16	-0.77	-0.72	**-0.26**
3342	2,4,3,6,9,11,13,16,18,19,22,25,29,39,41,43,50,54	0.13	1.18	0.58	-1.25	-0.22	-1.59	0.80	-0.63	-0.11	0.88	-1.63	-0.90	0.89	1.55	-0.16	-0.77	-0.72	**-1.98**
3343	2,4,3,6,9,11,13,16,18,19,22,25,29,39,44,55	-0.80	-0.12	0.93	-1.45	-0.33	-2.02	-0.40	-0.81	-0.37	0.85	-1.78	-0.90	0.83	1.55	-0.16	-0.77	-0.72	**-6.46**
3344	2,4,3,6,9,11,13,16,18,19,22,25,29,39,45,55	0.90	0.92	1.77	-0.43	-0.82	0.13	0.80	-0.23	0.96	1.66	-1.07	-0.90	1.70	1.55	-0.16	-0.77	-0.72	**5.28**
3345	2,4,3,6,9,11,13,16,18,21,27,26,30,32,46,47,50,54	1.17	2.74	0.37	-0.41	0.62	1.84	1.52	-1.03	1.74	-0.60	1.44	-0.90	1.08	0.26	-0.16	1.14	0.98	**11.78**
3346	2,4,3,6,9,11,13,16,18,21,27,26,30,32,46,49,53,54	1.13	2.48	0.35	-0.47	0.59	0.98	1.28	-0.51	1.16	-0.72	1.60	0.05	1.04	0.26	-0.16	1.14	0.98	**11.18**
3347	2,4,3,6,9,11,13,16,18,21,27,26,30,32,48,51	0.63	1.96	1.10	-1.06	-1.37	1.84	1.99	-1.21	0.91	-0.83	1.10	-0.90	1.55	0.26	-0.16	1.14	0.98	**7.93**
3348	2,4,3,6,9,11,13,16,18,21,27,26,30,32,48,52,53,54	0.30	1.96	0.74	-1.45	-0.83	0.98	1.75	-1.03	1.04	-0.83	0.78	-1.85	1.06	0.26	-0.16	1.14	0.98	**4.84**
3349	2,4,3,6,9,11,13,16,18,21,27,26,31,34,35,37,40,41,44,55	-0.65	1.44	-0.52	-0.40	0.88	-0.30	-1.11	-0.62	0.14	-1.22	0.64	-0.90	-0.46	-0.46	-0.16	1.14	-0.72	**-3.29**
3350	2,4,3,6,9,11,13,16,18,21,27,26,31,34,35,37,40,41,45,55	1.05	2.48	0.32	0.62	0.39	1.84	0.08	-0.04	1.46	-0.41	1.35	-0.90	0.42	-0.46	-0.16	1.14	-0.72	**8.45**
3351	2,4,3,6,9,11,13,16,18,21,27,26,31,34,35,37,40,43,47,46,48,51	0.09	2.48	-0.05	1.40	-0.34	0.98	0.08	-0.62	-0.44	-1.34	1.77	1.01	-0.12	-0.46	-0.16	1.14	-0.72	**4.71**
3352	2,4,3,6,9,11,13,16,18,21,27,26,31,34,35,37,40,43,47,46,48,52,53,54	-0.24	2.48	-0.40	1.01	0.20	0.13	-0.16	-0.44	-0.31	-1.34	1.45	0.05	-0.60	-0.46	-0.16	1.14	-0.72	**1.62**
3353	2,4,3,6,9,11,13,16,18,21,27,26,31,34,35,37,40,43,47,49,53,54	-1.16	2.74	-1.27	-0.09	1.05	0.13	-1.11	0.08	-0.19	-1.23	0.35	0.05	-0.98	-0.46	-0.16	1.14	-0.72	**-1.84**
3354	2,4,3,6,9,11,13,16,18,21,27,26,31,34,35,37,40,43,50,54	-1.26	2.22	-1.29	-0.20	0.99	0.13	-0.87	-0.44	0.39	-1.19	0.11	-0.90	-1.02	-0.46	-0.16	1.14	-0.72	**-3.56**
3355	2,4,3,6,9,11,13,16,18,21,27,26,31,34,35,37,42,46,48,51	-0.04	1.70	-0.08	1.32	-0.38	0.13	0.08	-0.62	-0.44	-1.37	1.73	1.01	-0.19	-0.46	-0.16	1.14	-0.72	**2.64**
3356	2,4,3,6,9,11,13,16,18,21,27,26,31,34,35,37,42,46,48,52,53,54	-0.37	1.70	-0.44	0.93	0.16	-0.73	-0.16	-0.44	-0.31	-1.37	1.42	0.05	-0.68	-0.46	-0.16	1.14	-0.72	**-0.45**
3357	2,4,3,6,9,11,13,16,18,21,27,26,31,34,35,37,42,47,50,54	-1.25	1.96	-1.29	-0.11	1.04	0.13	-0.87	-0.44	0.39	-1.14	0.13	-0.90	-1.01	-0.46	-0.16	1.14	-0.72	**-3.59**
3358	2,4,3,6,9,11,13,16,18,21,27,26,31,34,35,37,42,49,53,54	-1.30	1.70	-1.31	-0.17	1.01	-0.73	-1.11	0.08	-0.19	-1.27	0.31	0.05	-1.05	-0.46	-0.16	1.14	-0.72	**-4.17**
3359	2,4,3,6,9,11,13,16,18,21,27,26,31,34,36,39,41,40,42,46,48,51	1.29	2.48	1.04	1.58	-1.00	0.13	0.80	-0.47	-0.47	0.60	0.67	1.01	0.85	-0.46	-0.16	1.14	-0.72	**8.30**
3360	2,4,3,6,9,11,13,16,18,21,27,26,31,34,36,39,41,40,42,46,48,52,53,54	0.96	2.48	0.69	1.19	-0.46	-0.73	0.56	-0.30	-0.34	0.60	0.35	0.05	0.36	-0.46	-0.16	1.14	-0.72	**5.21**
3361	2,4,3,6,9,11,13,16,18,21,27,26,31,34,36,39,41,40,42,47,50,54	0.08	2.74	-0.16	0.14	0.42	0.13	-0.16	-0.30	0.36	0.83	-0.94	-0.90	0.03	-0.46	-0.16	1.14	-0.72	**2.07**
3362	2,4,3,6,9,11,13,16,18,21,27,26,31,34,36,39,41,40,42,49,53,54	0.04	2.48	-0.18	0.09	0.39	-0.73	-0.40	0.23	-0.22	0.71	-0.76	0.05	-0.01	-0.46	-0.16	1.14	-0.72	**1.48**
3363	2,4,3,6,9,11,13,16,18,21,27,26,31,34,36,39,41,43,47,46,48,51	1.29	2.74	1.05	1.66	-0.95	0.13	0.80	-0.47	-0.47	0.64	0.67	1.01	0.85	-0.46	-0.16	1.14	-0.72	**8.72**
3364	2,4,3,6,9,11,13,16,18,21,27,26,31,34,36,39,41,43,47,46,48,52,53,54	0.97	2.74	0.69	1.27	-0.42	-0.73	0.56	-0.30	-0.34	0.64	0.35	0.05	0.37	-0.46	-0.16	1.14	-0.72	**5.64**
3365	2,4,3,6,9,11,13,16,18,21,27,26,31,34,36,39,41,43,47,49,53,54	0.04	3.00	-0.18	0.17	0.44	-0.73	-0.40	0.23	-0.22	0.74	-0.75	0.05	0.00	-0.46	-0.16	1.14	-0.72	**2.17**
3366	2,4,3,6,9,11,13,16,18,21,27,26,31,34,36,39,41,43,50,54	-0.06	2.48	-0.20	0.05	0.37	-0.73	-0.16	-0.30	0.36	0.78	-0.99	-0.90	-0.05	-0.46	-0.16	1.14	-0.72	**0.45**
3367	2,4,3,6,9,11,13,16,18,21,27,26,31,34,36,39,44,55	-0.99	1.18	0.15	-0.14	0.26	-1.16	-1.35	-0.47	0.11	0.76	-1.14	-0.90	-0.11	-0.46	-0.16	1.14	-0.72	**-4.02**
3368	2,4,3,6,9,11,13,16,18,21,27,26,31,34,36,39,45,55	0.71	2.22	0.99	0.88	-0.23	0.98	-0.16	0.10	1.43	1.57	-0.44	-0.90	0.77	-0.46	-0.16	1.14	-0.72	**7.71**
3369	2,4,3,6,9,11,13,16,18,21,27,26,31,34,38,40,42,46,48,51	0.00	1.70	-0.08	1.29	0.34	0.55	0.08	-0.25	-0.11	-1.36	1.69	1.01	-0.19	-0.46	-0.16	1.14	1.40	**6.59**
3370	2,4,3,6,9,11,13,16,18,21,27,26,31,34,38,40,42,46,48,52,53,54	-0.33	1.70	-0.44	0.90	0.87	-0.30	-0.16	-0.07	0.01	-1.36	1.38	0.05	-0.67	-0.46	-0.16	1.14	1.40	**3.51**
3371	2,4,3,6,9,11,13,16,18,21,27,26,31,34,38,40,42,47,50,54	-1.21	1.96	-1.29	-0.14	1.75	0.55	-0.87	-0.07	0.72	-1.13	0.09	-0.90	-1.01	-0.46	-0.16	1.14	1.40	**0.37**
3372	2,4,3,6,9,11,13,16,18,21,27,26,31,34,38,40,42,49,53,54	-1.26	1.70	-1.31	-0.20	1.73	-0.30	-1.11	0.45	0.13	-1.26	0.27	0.05	-1.04	-0.46	-0.16	1.14	1.40	**-0.22**
3373	2,4,3,6,9,11,13,16,18,21,27,26,31,34,38,41,44,55	-0.75	0.92	-0.56	-0.43	1.60	-0.73	-1.11	-0.25	0.46	-1.20	0.56	-0.90	-0.52	-0.46	-0.16	1.14	1.40	**-0.98**
3374	2,4,3,6,9,11,13,16,18,21,27,26,31,34,38,41,45,55	0.96	1.96	0.28	0.59	1.11	1.41	0.08	0.33	1.78	-0.39	1.27	-0.90	0.36	-0.46	-0.16	1.14	1.40	**10.75**
3375	2,4,3,6,9,11,13,16,18,21,27,26,31,34,38,43,47,46,48,51	0.00	1.44	-0.08	1.37	0.38	0.55	0.08	-0.25	-0.11	-1.33	1.70	1.01	-0.18	-0.46	-0.16	1.14	1.40	**6.50**
3376	2,4,3,6,9,11,13,16,18,21,27,26,31,34,38,43,47,46,48,52,53,54	-0.33	1.44	-0.44	0.98	0.92	-0.30	-0.16	-0.07	0.01	-1.33	1.38	0.05	-0.67	-0.46	-0.16	1.14	1.40	**3.42**
3377	2,4,3,6,9,11,13,16,18,21,27,26,31,34,38,43,47,49,53,54	-1.26	1.70	-1.31	-0.12	1.77	-0.30	-1.11	0.45	0.13	-1.22	0.28	0.05	-1.04	-0.46	-0.16	1.14	1.40	**-0.05**
3378	2,4,3,6,9,11,13,16,18,21,27,26,31,34,38,43,50,54	-1.36	1.18	-1.33	-0.23	1.70	-0.30	-0.87	-0.07	0.72	-1.18	0.03	-0.90	-1.08	-0.46	-0.16	1.14	1.40	**-1.77**
3379	2,4,3,6,9,11,13,16,18,21,27,26,33,37,40,41,44,55	-0.72	0.40	-0.55	-0.42	0.52	-0.30	-0.87	-0.62	-0.16	-1.20	0.59	-0.90	-0.48	-0.46	-0.16	1.14	-0.72	**-4.92**
3380	2,4,3,6,9,11,13,16,18,21,27,26,33,37,40,41,45,55	0.98	1.44	0.29	0.60	0.03	1.84	0.32	-0.04	1.16	-0.39	1.29	-0.90	0.40	-0.46	-0.16	1.14	-0.72	**6.82**
3381	2,4,3,6,9,11,13,16,18,21,27,26,33,37,40,43,47,46,48,51	0.02	1.44	-0.08	1.38	-0.69	0.98	0.32	-0.62	-0.74	-1.32	1.72	1.01	-0.14	-0.46	-0.16	1.14	-0.72	**3.08**
3382	2,4,3,6,9,11,13,16,18,21,27,26,33,37,40,43,47,46,48,52,53,54	-0.30	1.44	-0.43	0.99	-0.16	0.13	0.08	-0.44	-0.62	-1.32	1.40	0.05	-0.63	-0.46	-0.16	1.14	-0.72	**-0.01**
3383	2,4,3,6,9,11,13,16,18,21,27,26,33,37,40,43,47,49,53,54	-1.23	1.70	-1.30	-0.11	0.70	0.13	-0.87	0.08	-0.49	-1.22	0.30	0.05	-1.00	-0.46	-0.16	1.14	-0.72	**-3.47**
3384	2,4,3,6,9,11,13,16,18,21,27,26,33,37,40,43,50,54	-1.33	1.18	-1.32	-0.23	0.63	0.13	-0.64	-0.44	0.09	-1.17	0.05	-0.90	-1.04	-0.46	-0.16	1.14	-0.72	**-5.19**
3385	2,4,3,6,9,11,13,16,18,21,27,26,33,37,42,46,48,51	-0.11	0.66	-0.11	1.30	-0.74	0.13	0.32	-0.62	-0.74	-1.35	1.68	1.01	-0.21	-0.46	-0.16	1.14	-0.72	**1.00**
3386	2,4,3,6,9,11,13,16,18,21,27,26,33,37,42,46,48,52,53,54	-0.43	0.66	-0.47	0.91	-0.20	-0.73	0.08	-0.44	-0.62	-1.35	1.36	0.05	-0.70	-0.46	-0.16	1.14	-0.72	**-2.08**
3387	2,4,3,6,9,11,13,16,18,21,27,26,33,37,42,47,50,54	-1.32	0.92	-1.32	-0.14	0.68	0.13	-0.64	-0.44	0.09	-1.12	0.08	-0.90	-1.03	-0.46	-0.16	1.14	-0.72	**-5.22**
3388	2,4,3,6,9,11,13,16,18,21,27,26,33,37,42,49,53,54	-1.36	0.66	-1.34	-0.19	0.65	-0.73	-0.87	0.08	-0.49	-1.25	0.26	0.05	-1.07	-0.46	-0.16	1.14	-0.72	**-5.81**
3389	2,4,3,6,9,11,13,16,18,21,28,31,30,32,46,47,50,54	1.10	2.22	0.30	-0.39	0.82	1.84	1.52	-1.03	1.39	-0.35	1.19	-0.90	0.98	0.26	-0.16	-0.77	0.98	**8.98**
3390	2,4,3,6,9,11,13,16,18,21,28,31,30,32,46,49,53,54	1.05	1.96	0.28	-0.44	0.79	0.98	1.28	-0.51	0.81	-0.48	1.35	0.05	0.95	0.26	-0.16	-0.77	0.98	**8.38**
3391	2,4,3,6,9,11,13,16,18,21,28,31,30,32,48,51	0.55	1.44	1.03	-1.03	-1.16	1.84	1.99	-1.21	0.56	-0.58	0.84	-0.90	1.46	0.26	-0.16	-0.77	0.98	**5.13**
3392	2,4,3,6,9,11,13,16,18,21,28,31,30,32,48,52,53,54	0.23	1.44	0.67	-1.42	-0.62	0.98	1.75	-1.03	0.68	-0.58	0.52	-1.85	0.97	0.26	-0.16	-0.77	0.98	**2.04**
3393	2,4,3,6,9,11,13,16,18,21,28,31,33,37,40,41,44,55	-0.79	0.40	-0.62	-0.39	0.73	-0.30	-0.87	-0.62	-0.52	-0.95	0.33	-0.90	-0.57	-0.46	-0.16	-0.77	-0.72	**-7.20**
3394	2,4,3,6,9,11,13,16,18,21,28,31,33,37,40,41,45,55	0.91	1.44	0.22	0.63	0.24	1.84	0.32	-0.04	0.81	-0.14	1.04	-0.90	0.31	-0.46	-0.16	-0.77	-0.72	**4.53**
3395	2,4,3,6,9,11,13,16,18,21,28,31,33,37,40,43,47,46,48,51	-0.05	1.44	-0.15	1.41	-0.49	0.98	0.32	-0.62	-1.09	-1.08	1.46	1.01	-0.23	-0.46	-0.16	-0.77	-0.72	**0.80**
3396	2,4,3,6,9,11,13,16,18,21,28,31,33,37,40,43,47,46,48,52,53,54	-0.37	1.44	-0.50	1.02	0.05	0.13	0.08	-0.44	-0.97	-1.08	1.14	0.05	-0.72	-0.46	-0.16	-0.77	-0.72	**-2.29**
3397	2,4,3,6,9,11,13,16,18,21,28,31,33,37,40,43,47,49,53,54	-1.30	1.70	-1.37	-0.08	0.90	0.13	-0.87	0.08	-0.84	-0.97	0.04	0.05	-1.09	-0.46	-0.16	-0.77	-0.72	**-5.76**
3398	2,4,3,6,9,11,13,16,18,21,28,31,33,37,40,43,50,54	-1.40	1.18	-1.39	-0.20	0.84	0.13	-0.64	-0.44	-0.26	-0.93	-0.20	-0.90	-1.13	-0.46	-0.16	-0.77	-0.72	**-7.47**
3399	2,4,3,6,9,11,13,16,18,21,28,31,33,37,42,46,48,51	-0.18	0.66	-0.18	1.33	-0.53	0.13	0.32	-0.62	-1.09	-1.11	1.42	1.01	-0.31	-0.46	-0.16	-0.77	-0.72	**-1.28**
3400	2,4,3,6,9,11,13,16,18,21,28,31,33,37,42,46,48,52,53,54	-0.51	0.66	-0.54	0.94	0.01	-0.73	0.08	-0.44	-0.97	-1.11	1.10	0.05	-0.79	-0.46	-0.16	-0.77	-0.72	**-4.36**
3401	2,4,3,6,9,11,13,16,18,21,28,31,33,37,42,47,50,54	-1.39	0.92	-1.39	-0.11	0.89	0.13	-0.64	-0.44	-0.26	-0.88	-0.18	-0.90	-1.13	-0.46	-0.16	-0.77	-0.72	**-7.50**
3402	2,4,3,6,9,11,13,16,18,21,28,31,33,37,42,49,53,54	-1.43	0.66	-1.41	-0.16	0.86	-0.73	-0.87	0.08	-0.84	-1.01	0.00	0.05	-1.16	-0.46	-0.16	-0.77	-0.72	**-8.09**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
3403	2,4,3,6,9,11,13,16,18,21,28,34,35,37,40,41,44,55	-0.82	0.40	-0.62	-0.37	1.09	-0.30	-1.11	-0.62	-0.22	-1.00	0.30	-0.90	-0.61	-0.46	-0.16	-0.77	-0.72	**-6.89**
3404	2,4,3,6,9,11,13,16,18,21,28,34,35,37,40,41,45,55	0.88	1.44	0.22	0.65	0.60	1.84	0.08	-0.04	1.11	-0.19	1.01	-0.90	0.26	-0.46	-0.16	-0.77	-0.72	**4.84**
3405	2,4,3,6,9,11,13,16,18,21,28,34,35,37,40,43,47,46,48,51	-0.08	1.44	-0.14	1.43	-0.13	0.98	0.08	-0.62	-0.79	-1.12	1.43	1.01	-0.28	-0.46	-0.16	-0.77	-0.72	**1.10**
3406	2,4,3,6,9,11,13,16,18,21,28,34,35,37,40,43,47,46,48,52,53,54	-0.40	1.44	-0.50	1.04	0.41	0.13	-0.16	-0.44	-0.67	-1.12	1.12	0.05	-0.76	-0.46	-0.16	-0.77	-0.72	**-1.98**
3407	2,4,3,6,9,11,13,16,18,21,28,34,35,37,40,43,47,49,53,54	-1.33	1.70	-1.36	-0.06	1.26	0.13	-1.11	0.08	-0.54	-1.02	0.01	0.05	-1.13	-0.46	-0.16	-0.77	-0.72	**-5.45**
3408	2,4,3,6,9,11,13,16,18,21,28,34,35,37,40,43,50,54	-1.43	1.18	-1.38	-0.18	1.19	0.13	-0.87	-0.44	0.04	-0.97	-0.23	-0.90	-1.18	-0.46	-0.16	-0.77	-0.72	**-7.17**
3409	2,4,3,6,9,11,13,16,18,21,28,34,35,37,42,46,48,51	-0.21	0.66	-0.18	1.35	-0.17	0.13	0.08	-0.62	-0.79	-1.15	1.40	1.01	-0.35	-0.46	-0.16	-0.77	-0.72	**-0.97**
3410	2,4,3,6,9,11,13,16,18,21,28,34,35,37,42,46,48,52,53,54	-0.54	0.66	-0.53	0.96	0.36	-0.73	-0.16	-0.44	-0.67	-1.15	1.08	0.05	-0.84	-0.46	-0.16	-0.77	-0.72	**-4.05**
3411	2,4,3,6,9,11,13,16,18,21,28,34,35,37,42,47,50,54	-1.42	0.92	-1.38	-0.09	1.24	0.13	-0.87	-0.44	0.04	-0.92	-0.21	-0.90	-1.17	-0.46	-0.16	-0.77	-0.72	**-7.19**
3412	2,4,3,6,9,11,13,16,18,21,28,34,35,37,42,49,53,54	-1.46	0.66	-1.40	-0.14	1.21	-0.73	-1.11	0.08	-0.54	-1.05	-0.02	0.05	-1.21	-0.46	-0.16	-0.77	-0.72	**-7.78**
3413	2,4,3,6,9,11,13,16,18,21,28,34,36,39,41,40,42,46,48,51	1.12	1.44	0.95	1.60	-0.79	0.13	0.80	-0.47	-0.82	0.82	0.33	1.01	0.69	-0.46	-0.16	-0.77	-0.72	**4.69**
3414	2,4,3,6,9,11,13,16,18,21,28,34,36,39,41,40,42,46,48,52,53,54	0.80	1.44	0.59	1.22	-0.25	-0.73	0.56	-0.30	-0.70	0.82	0.01	0.05	0.21	-0.46	-0.16	-0.77	-0.72	**1.60**
3415	2,4,3,6,9,11,13,16,18,21,28,34,36,39,41,40,42,47,50,54	-0.09	1.70	-0.25	0.17	0.63	0.13	-0.16	-0.30	0.01	1.05	-1.27	-0.90	-0.13	-0.46	-0.16	-0.77	-0.72	**-1.54**
3416	2,4,3,6,9,11,13,16,18,21,28,34,36,39,41,40,42,49,53,54	-0.13	1.44	-0.27	0.12	0.60	-0.73	-0.40	0.23	-0.57	0.93	-1.09	0.05	-0.17	-0.46	-0.16	-0.77	-0.72	**-2.12**
3417	2,4,3,6,9,11,13,16,18,21,28,34,36,39,41,43,47,46,48,51	1.13	1.70	0.95	1.68	-0.75	0.13	0.80	-0.47	-0.82	0.85	0.34	1.01	0.69	-0.46	-0.16	-0.77	-0.72	**5.12**
3418	2,4,3,6,9,11,13,16,18,21,28,34,36,39,41,43,47,46,48,52,53,54	0.80	1.70	0.59	1.30	-0.21	-0.73	0.56	-0.30	-0.70	0.85	0.02	0.05	0.21	-0.46	-0.16	-0.77	-0.72	**2.03**
3419	2,4,3,6,9,11,13,16,18,21,28,34,36,39,41,43,47,49,53,54	-0.13	1.96	-0.27	0.20	0.64	-0.73	-0.40	0.23	-0.57	0.96	-1.09	0.05	-0.16	-0.46	-0.16	-0.77	-0.72	**-1.43**
3420	2,4,3,6,9,11,13,16,18,21,28,34,36,39,41,43,50,54	-0.23	1.44	-0.29	0.08	0.58	-0.73	-0.16	-0.30	0.01	1.00	-1.33	-0.90	-0.20	-0.46	-0.16	-0.77	-0.72	**-3.15**
3421	2,4,3,6,9,11,13,16,18,21,28,34,36,39,44,55	-1.16	0.14	0.06	-0.11	0.47	-1.16	-1.35	-0.47	-0.25	0.98	-1.48	-0.90	-0.27	-0.46	-0.16	-0.77	-0.72	**-7.63**
3422	2,4,3,6,9,11,13,16,18,21,28,34,36,39,45,55	0.54	1.18	0.90	0.91	-0.02	0.98	-0.16	0.10	1.08	1.79	-0.77	-0.90	0.61	-0.46	-0.16	-0.77	-0.72	**4.11**
3423	2,4,3,6,9,11,13,16,18,21,28,34,38,40,42,46,48,51	-0.17	0.66	-0.18	1.32	0.54	0.55	0.08	-0.25	-0.47	-1.14	1.36	1.01	-0.34	-0.46	-0.16	-0.77	1.40	**2.98**
3424	2,4,3,6,9,11,13,16,18,21,28,34,38,40,42,46,48,52,53,54	-0.50	0.66	-0.54	0.93	1.08	-0.30	-0.16	-0.07	-0.34	-1.14	1.04	0.05	-0.83	-0.46	-0.16	-0.77	1.40	**-0.10**
3425	2,4,3,6,9,11,13,16,18,21,28,34,38,40,42,47,50,54	-1.38	0.92	-1.38	-0.12	1.96	0.55	-0.87	-0.07	0.36	-0.91	-0.25	-0.90	-1.16	-0.46	-0.16	-0.77	1.40	**-3.24**
3426	2,4,3,6,9,11,13,16,18,21,28,34,38,40,42,49,53,54	-1.42	0.66	-1.40	-0.17	1.93	-0.30	-1.11	0.45	-0.22	-1.04	-0.06	0.05	-1.20	-0.46	-0.16	-0.77	1.40	**-3.83**
3427	2,4,3,6,9,11,13,16,18,21,28,34,38,41,44,55	-0.91	-0.12	-0.65	-0.40	1.80	-0.73	-1.11	-0.25	0.11	-0.98	0.23	-0.90	-0.68	-0.46	-0.16	-0.77	1.40	**-4.59**
3428	2,4,3,6,9,11,13,16,18,21,28,34,38,41,45,55	0.79	0.92	0.19	0.62	1.31	1.41	0.08	0.33	1.43	-0.17	0.93	-0.90	0.20	-0.46	-0.16	-0.77	1.40	**7.15**
3429	2,4,3,6,9,11,13,16,18,21,28,34,38,43,47,46,48,51	-0.17	0.40	-0.18	1.40	0.59	0.55	0.08	-0.25	-0.47	-1.11	1.36	1.01	-0.34	-0.46	-0.16	-0.77	1.40	**2.89**
3430	2,4,3,6,9,11,13,16,18,21,28,34,38,43,47,46,48,52,53,54	-0.49	0.40	-0.53	1.01	1.12	-0.30	-0.16	-0.07	-0.34	-1.11	1.05	0.05	-0.82	-0.46	-0.16	-0.77	1.40	**-0.19**
3431	2,4,3,6,9,11,13,16,18,21,28,34,38,43,47,49,53,54	-1.42	0.66	-1.40	-0.09	1.98	-0.30	-1.11	0.45	-0.22	-1.00	-0.06	0.05	-1.20	-0.46	-0.16	-0.77	1.40	**-3.66**
3432	2,4,3,6,9,11,13,16,18,21,28,34,38,43,50,54	-1.52	0.14	-1.42	-0.21	1.91	-0.30	-0.87	-0.07	0.36	-0.96	-0.30	-0.90	-1.24	-0.46	-0.16	-0.77	1.40	**-5.38**
3433	2,4,3,6,9,11,13,16,20,23,26,30,32,46,47,50,54	1.08	1.70	0.21	-0.17	0.58	0.98	1.04	-0.34	2.28	-0.15	1.00	-0.90	0.75	0.16	-0.16	1.14	0.98	**10.17**
3434	2,4,3,6,9,11,13,16,20,23,26,30,32,46,49,53,54	1.04	1.44	0.19	-0.22	0.55	0.13	0.80	0.18	1.70	-0.28	1.16	0.05	0.71	0.16	-0.16	1.14	0.98	**9.56**
3435	2,4,3,6,9,11,13,16,20,23,26,30,32,48,51	0.54	0.92	0.94	-0.81	-1.40	0.98	1.52	-0.52	1.45	-0.39	0.65	-0.90	1.22	0.16	-0.16	1.14	0.98	**6.32**
3436	2,4,3,6,9,11,13,16,20,23,26,30,32,48,52,53,54	0.21	0.92	0.58	-1.20	-0.86	0.13	1.28	-0.34	1.57	-0.39	0.33	-1.85	0.74	0.16	-0.16	1.14	0.98	**3.23**
3437	2,4,3,6,9,11,13,16,20,23,26,31,34,35,37,40,41,44,55	-0.74	0.40	-0.68	-0.15	0.85	-1.16	-1.59	0.07	0.67	-0.77	0.19	-0.90	-0.78	-0.56	-0.16	1.14	-0.72	**-4.90**
3438	2,4,3,6,9,11,13,16,20,23,26,31,34,35,37,40,41,45,55	0.96	1.44	0.16	0.87	0.36	0.98	-0.40	0.65	2.00	0.04	0.90	-0.90	0.09	-0.56	-0.16	1.14	-0.72	**6.84**
3439	2,4,3,6,9,11,13,16,20,23,26,31,34,35,37,40,43,47,46,48,51	0.00	1.44	-0.21	1.65	-0.37	0.13	-0.40	0.07	0.10	-0.89	1.33	1.01	-0.45	-0.56	-0.16	1.14	-0.72	**3.10**
3440	2,4,3,6,9,11,13,16,20,23,26,31,34,35,37,40,43,47,46,48,52,53,54	-0.32	1.44	-0.57	1.26	0.17	-0.73	-0.64	0.25	0.22	-0.89	1.01	0.05	-0.93	-0.56	-0.16	1.14	-0.72	**0.01**
3441	2,4,3,6,9,11,13,16,20,23,26,31,34,35,37,40,43,47,49,53,54	-1.25	1.70	-1.43	0.16	1.02	-0.73	-1.59	0.77	0.35	-0.79	-0.10	0.05	-1.30	-0.56	-0.16	1.14	-0.72	**-3.45**
3442	2,4,3,6,9,11,13,16,20,23,26,31,34,35,37,40,43,50,54	-1.35	1.18	-1.45	0.04	0.95	-0.73	-1.35	0.25	0.93	-0.75	-0.34	-0.90	-1.35	-0.56	-0.16	1.14	-0.72	**-5.17**
3443	2,4,3,6,9,11,13,16,20,23,26,31,34,35,37,42,46,48,51	-0.13	0.66	-0.25	1.57	-0.41	-0.73	-0.40	0.07	0.10	-0.93	1.29	1.01	-0.52	-0.56	-0.16	1.14	-0.72	**1.02**
3444	2,4,3,6,9,11,13,16,20,23,26,31,34,35,37,42,46,48,52,53,54	-0.46	0.66	-0.60	1.18	0.12	-1.59	-0.64	0.25	0.22	-0.93	0.97	0.05	-1.01	-0.56	-0.16	1.14	-0.72	**-2.06**
3445	2,4,3,6,9,11,13,16,20,23,26,31,34,35,37,42,47,50,54	-1.34	0.92	-1.45	0.13	1.00	-0.73	-1.35	0.25	0.93	-0.70	-0.32	-0.90	-1.34	-0.56	-0.16	1.14	-0.72	**-5.20**
3446	2,4,3,6,9,11,13,16,20,23,26,31,34,35,37,42,49,53,54	-1.38	0.66	-1.47	0.08	0.97	-1.59	-1.59	0.77	0.35	-0.82	-0.13	0.05	-1.38	-0.56	-0.16	1.14	-0.72	**-5.79**
3447	2,4,3,6,9,11,13,16,20,23,26,31,34,36,39,41,40,42,46,48,51	1.20	1.44	0.88	1.82	-1.03	-0.73	0.32	0.22	0.07	1.05	0.22	1.01	0.52	-0.56	-0.16	1.14	-0.72	**6.68**
3448	2,4,3,6,9,11,13,16,20,23,26,31,34,36,39,41,40,42,46,48,52,53,54	0.88	1.44	0.52	1.44	-0.49	-1.59	0.08	0.40	0.19	1.05	-0.10	0.05	0.04	-0.56	-0.16	1.14	-0.72	**3.60**
3449	2,4,3,6,9,11,13,16,20,23,26,31,34,36,39,41,40,42,47,50,54	-0.01	1.70	-0.32	0.39	0.39	-0.73	-0.64	0.40	0.90	1.28	-1.38	-0.90	-0.30	-0.56	-0.16	1.14	-0.72	**0.46**
3450	2,4,3,6,9,11,13,16,20,23,26,31,34,36,39,41,40,42,49,53,54	-0.05	1.44	-0.34	0.34	0.36	-1.59	-0.87	0.92	0.32	1.15	-1.20	0.05	-0.33	-0.56	-0.16	1.14	-0.72	**-0.13**
3451	2,4,3,6,9,11,13,16,20,23,26,31,34,36,39,41,43,47,46,48,51	1.20	1.70	0.88	1.90	-0.99	-0.73	0.32	0.22	0.07	1.08	0.23	1.01	0.53	-0.56	-0.16	1.14	-0.72	**7.11**
3452	2,4,3,6,9,11,13,16,20,23,26,31,34,36,39,41,43,47,46,48,52,53,54	0.88	1.70	0.53	1.52	-0.45	-1.59	0.08	0.40	0.19	1.08	-0.09	0.05	0.04	-0.56	-0.16	1.14	-0.72	**4.02**
3453	2,4,3,6,9,11,13,16,20,23,26,31,34,36,39,41,43,47,49,53,54	-0.05	1.96	-0.34	0.42	0.40	-1.59	-0.87	0.92	0.32	1.18	-1.20	0.05	-0.33	-0.56	-0.16	1.14	-0.72	**0.56**
3454	2,4,3,6,9,11,13,16,20,23,26,31,34,36,39,41,43,50,54	-0.15	1.44	-0.36	0.30	0.34	-1.59	-0.64	0.40	0.90	1.23	-1.44	-0.90	-0.37	-0.56	-0.16	1.14	-0.72	**-1.16**
3455	2,4,3,6,9,11,13,16,20,23,26,31,34,36,39,44,55	-1.08	0.14	-0.01	0.11	0.23	-2.02	-1.83	0.22	0.64	1.20	-1.59	-0.90	-0.44	-0.56	-0.16	1.14	-0.72	**-5.64**
3456	2,4,3,6,9,11,13,16,20,23,26,31,34,36,39,45,55	0.62	1.18	0.83	1.13	-0.26	0.13	-0.64	0.79	1.97	2.01	-0.88	-0.90	0.44	-0.56	-0.16	1.14	-0.72	**6.10**
3457	2,4,3,6,9,11,13,16,20,23,26,31,34,38,40,42,46,48,51	-0.09	0.66	-0.25	1.54	0.30	-0.30	-0.40	0.44	0.42	-0.92	1.25	1.01	-0.51	-0.56	-0.16	1.14	1.40	**4.98**
3458	2,4,3,6,9,11,13,16,20,23,26,31,34,38,40,42,46,48,52,53,54	-0.42	0.66	-0.60	1.15	0.84	-1.16	-0.64	0.62	0.55	-0.92	0.93	0.05	-1.00	-0.56	-0.16	1.14	1.40	**1.89**
3459	2,4,3,6,9,11,13,16,20,23,26,31,34,38,40,42,47,50,54	-1.30	0.92	-1.45	0.10	1.72	-0.30	-1.35	0.62	1.25	-0.68	-0.36	-0.90	-1.33	-0.56	-0.16	1.14	1.40	**-1.25**
3460	2,4,3,6,9,11,13,16,20,23,26,31,34,38,40,42,49,53,54	-1.35	0.66	-1.47	0.05	1.69	-1.16	-1.59	1.14	0.67	-0.81	-0.17	0.05	-1.37	-0.56	-0.16	1.14	1.40	**-1.83**
3461	2,4,3,6,9,11,13,16,20,23,26,31,34,38,41,44,55	-0.83	-0.12	-0.72	-0.18	1.56	-1.59	-1.59	0.44	1.00	-0.76	0.12	-0.90	-0.84	-0.56	-0.16	1.14	1.40	**-2.60**
3462	2,4,3,6,9,11,13,16,20,23,26,31,34,38,41,45,55	0.87	0.92	0.12	0.84	1.07	0.55	-0.40	1.02	2.32	0.05	0.82	-0.90	0.03	-0.56	-0.16	1.14	1.40	**9.14**
3463	2,4,3,6,9,11,13,16,20,23,26,31,34,38,43,47,46,48,51	-0.09	0.40	-0.25	1.62	0.35	-0.30	-0.40	0.44	0.42	-0.88	1.25	1.01	-0.51	-0.56	-0.16	1.14	1.40	**4.89**
3464	2,4,3,6,9,11,13,16,20,23,26,31,34,38,43,47,46,48,52,53,54	-0.42	0.40	-0.60	1.23	0.88	-1.16	-0.64	0.62	0.55	-0.88	0.94	0.05	-0.99	-0.56	-0.16	1.14	1.40	**1.80**
3465	2,4,3,6,9,11,13,16,20,23,26,31,34,38,43,47,49,53,54	-1.34	0.66	-1.47	0.13	1.74	-1.16	-1.59	1.14	0.67	-0.78	-0.17	0.05	-1.37	-0.56	-0.16	1.14	1.40	**-1.66**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
3466	2,4,3,6,9,11,13,16,20,23,26,31,34,38,43,50,54	-1.44	0.14	-1.49	0.01	1.67	-1.16	-1.35	0.62	1.25	-0.74	-0.41	-0.90	-1.41	-0.56	-0.16	1.14	1.40	**-3.38**
3467	2,4,3,6,9,11,13,16,20,23,26,33,37,40,41,44,55	-0.81	-0.64	-0.72	-0.17	0.49	-1.16	-1.35	0.07	0.37	-0.75	0.14	-0.90	-0.80	-0.56	-0.16	1.14	-0.72	**-6.53**
3468	2,4,3,6,9,11,13,16,20,23,26,33,37,40,41,45,55	0.89	0.40	0.12	0.85	0.00	0.98	-0.16	0.65	1.70	0.06	0.85	-0.90	0.07	-0.56	-0.16	1.14	-0.72	**5.20**
3469	2,4,3,6,9,11,13,16,20,23,26,33,37,40,43,47,46,48,51	-0.06	0.40	-0.24	1.63	-0.73	0.13	-0.16	0.07	-0.20	-0.88	1.27	1.01	-0.47	-0.56	-0.16	1.14	-0.72	**1.46**
3470	2,4,3,6,9,11,13,16,20,23,26,33,37,40,43,47,46,48,52,53,54	-0.39	0.40	-0.60	1.24	-0.19	-0.73	-0.40	0.25	-0.08	-0.88	0.95	0.05	-0.95	-0.56	-0.16	1.14	-0.72	**-1.62**
3471	2,4,3,6,9,11,13,16,20,23,26,33,37,40,43,47,49,53,54	-1.32	0.66	-1.46	0.14	0.66	-0.73	-1.35	0.77	0.05	-0.77	-0.15	0.05	-1.32	-0.56	-0.16	1.14	-0.72	**-5.09**
3472	2,4,3,6,9,11,13,16,20,23,26,33,37,40,43,50,54	-1.42	0.14	-1.48	0.02	0.60	-0.73	-1.11	0.25	0.63	-0.73	-0.39	-0.90	-1.37	-0.56	-0.16	1.14	-0.72	**-6.81**
3473	2,4,3,6,9,11,13,16,20,23,26,33,37,42,46,48,51	-0.20	-0.38	-0.28	1.55	-0.77	-0.73	-0.16	0.07	-0.20	-0.91	1.24	1.01	-0.54	-0.56	-0.16	1.14	-0.72	**-0.61**
3474	2,4,3,6,9,11,13,16,20,23,26,33,37,42,46,48,52,53,54	-0.52	-0.38	-0.63	1.16	-0.23	-1.59	-0.40	0.25	-0.08	-0.91	0.92	0.05	-1.03	-0.56	-0.16	1.14	-0.72	**-3.70**
3475	2,4,3,6,9,11,13,16,20,23,26,33,37,42,47,50,54	-1.41	-0.12	-1.48	0.11	0.65	-0.73	-1.11	0.25	0.63	-0.68	-0.37	-0.90	-1.36	-0.56	-0.16	1.14	-0.72	**-6.83**
3476	2,4,3,6,9,11,13,16,20,23,26,33,37,42,49,53,54	-1.45	-0.38	-1.50	0.06	0.62	-1.59	-1.35	0.77	0.05	-0.81	-0.19	0.05	-1.40	-0.56	-0.16	1.14	-0.72	**-7.42**
3477	2,4,3,6,9,11,13,16,20,23,27,28,31,30,32,46,47,50,54	1.12	1.70	0.17	-0.14	0.79	0.98	1.04	-0.34	1.92	0.22	0.74	-0.90	0.72	0.16	-0.16	-0.77	0.98	**8.21**
3478	2,4,3,6,9,11,13,16,20,23,27,28,31,30,32,46,49,53,54	1.07	1.44	0.15	-0.19	0.76	0.13	0.80	0.18	1.34	0.09	0.90	0.05	0.68	0.16	-0.16	-0.77	0.98	**7.61**
3479	2,4,3,6,9,11,13,16,20,23,27,28,31,30,32,48,51	0.57	0.92	0.90	-0.78	-1.19	0.98	1.52	-0.52	1.10	-0.02	0.39	-0.90	1.19	0.16	-0.16	-0.77	0.98	**4.36**
3480	2,4,3,6,9,11,13,16,20,23,27,28,31,30,32,48,52,53,54	0.25	0.92	0.54	-1.17	-0.66	0.13	1.28	-0.34	1.22	-0.02	0.08	-1.85	0.70	0.16	-0.16	-0.77	0.98	**1.27**
3481	2,4,3,6,9,11,13,16,20,23,27,28,31,33,37,40,41,44,55	-0.77	-0.12	-0.76	-0.14	0.70	-1.16	-1.35	0.07	0.02	-0.39	-0.12	-0.90	-0.84	-0.56	-0.16	-0.77	-0.72	**-7.97**
3482	2,4,3,6,9,11,13,16,20,23,27,28,31,33,37,40,41,45,55	0.93	0.92	0.08	0.88	0.20	0.98	-0.16	0.65	1.34	0.42	0.59	-0.90	0.04	-0.56	-0.16	-0.77	-0.72	**3.76**
3483	2,4,3,6,9,11,13,16,20,23,27,28,31,33,37,40,43,47,46,48,51	-0.03	0.92	-0.28	1.65	-0.52	0.13	-0.16	0.07	-0.56	-0.51	1.01	1.01	-0.50	-0.56	-0.16	-0.77	-0.72	**0.02**
3484	2,4,3,6,9,11,13,16,20,23,27,28,31,33,37,40,43,47,46,48,52,53,54	-0.35	0.92	-0.64	1.27	0.01	-0.73	-0.40	0.25	-0.43	-0.51	0.70	0.05	-0.99	-0.56	-0.16	-0.77	-0.72	**-3.06**
3485	2,4,3,6,9,11,13,16,20,23,27,28,31,33,37,40,43,47,49,53,54	-1.28	1.18	-1.50	0.17	0.87	-0.73	-1.35	0.77	-0.31	-0.40	-0.41	0.05	-1.36	-0.56	-0.16	-0.77	-0.72	**-6.53**
3486	2,4,3,6,9,11,13,16,20,23,27,28,31,33,37,40,43,50,54	-1.38	0.66	-1.52	0.05	0.80	-0.73	-1.11	0.25	0.27	-0.36	-0.65	-0.90	-1.40	-0.56	-0.16	-0.77	-0.72	**-8.25**
3487	2,4,3,6,9,11,13,16,20,23,27,28,31,33,37,42,46,48,51	-0.16	0.14	-0.32	1.57	-0.57	-0.73	-0.16	0.07	-0.56	-0.54	0.98	1.01	-0.57	-0.56	-0.16	-0.77	-0.72	**-2.05**
3488	2,4,3,6,9,11,13,16,20,23,27,28,31,33,37,42,46,48,52,53,54	-0.49	0.14	-0.67	1.19	-0.03	-1.59	-0.40	0.25	-0.43	-0.54	0.66	0.05	-1.06	-0.56	-0.16	-0.77	-0.72	**-5.13**
3489	2,4,3,6,9,11,13,16,20,23,27,28,31,33,37,42,47,50,54	-1.37	0.40	-1.52	0.14	0.85	-0.73	-1.11	0.25	0.27	-0.31	-0.63	-0.90	-1.40	-0.56	-0.16	-0.77	-0.72	**-8.27**
3490	2,4,3,6,9,11,13,16,20,23,27,28,31,33,37,42,49,53,54	-1.41	0.14	-1.54	0.09	0.82	-1.59	-1.35	0.77	-0.31	-0.44	-0.44	0.05	-1.43	-0.56	-0.16	-0.77	-0.72	**-8.86**
3491	2,4,3,6,9,11,13,16,20,23,27,28,34,35,37,40,41,44,55	-0.80	-0.12	-0.75	-0.12	1.05	-1.16	-1.59	0.07	0.32	-0.43	-0.14	-0.90	-0.88	-0.56	-0.16	-0.77	-0.72	**-7.67**
3492	2,4,3,6,9,11,13,16,20,23,27,28,34,35,37,40,41,45,55	0.90	0.92	0.09	0.90	0.56	0.98	-0.40	0.65	1.64	0.38	0.56	-0.90	-0.01	-0.56	-0.16	-0.77	-0.72	**4.07**
3493	2,4,3,6,9,11,13,16,20,23,27,28,34,35,37,40,43,47,46,48,51	-0.06	0.92	-0.28	1.67	-0.16	0.13	-0.40	0.07	-0.25	-0.55	0.99	1.01	-0.55	-0.56	-0.16	-0.77	-0.72	**0.33**
3494	2,4,3,6,9,11,13,16,20,23,27,28,34,35,37,40,43,47,46,48,52,53,54	-0.38	0.92	-0.63	1.29	0.37	-0.73	-0.64	0.25	-0.13	-0.55	0.67	0.05	-1.03	-0.56	-0.16	-0.77	-0.72	**-2.75**
3495	2,4,3,6,9,11,13,16,20,23,27,28,34,35,37,40,43,47,49,53,54	-1.31	1.18	-1.50	0.19	1.22	-0.73	-1.59	0.77	-0.01	-0.45	-0.43	0.05	-1.40	-0.56	-0.16	-0.77	-0.72	**-6.22**
3496	2,4,3,6,9,11,13,16,20,23,27,28,34,35,37,40,43,50,54	-1.41	0.66	-1.52	0.07	1.16	-0.73	-1.35	0.25	0.57	-0.40	-0.68	-0.90	-1.45	-0.56	-0.16	-0.77	-0.72	**-7.94**
3497	2,4,3,6,9,11,13,16,20,23,27,28,34,35,37,42,46,48,51	-0.19	0.14	-0.31	1.60	-0.21	-0.73	-0.40	0.07	-0.25	-0.58	0.95	1.01	-0.62	-0.56	-0.16	-0.77	-0.72	**-1.74**
3498	2,4,3,6,9,11,13,16,20,23,27,28,34,35,37,42,46,48,52,53,54	-0.52	0.14	-0.67	1.21	0.33	-1.59	-0.64	0.25	-0.13	-0.58	0.63	0.05	-1.10	-0.56	-0.16	-0.77	-0.72	**-4.83**
3499	2,4,3,6,9,11,13,16,20,23,27,28,34,35,37,42,47,50,54	-1.40	0.40	-1.52	0.16	1.21	-0.73	-1.35	0.25	0.57	-0.35	-0.65	-0.90	-1.44	-0.56	-0.16	-0.77	-0.72	**-7.97**
3500	2,4,3,6,9,11,13,16,20,23,27,28,34,35,37,42,49,53,54	-1.44	0.14	-1.54	0.11	1.18	-1.59	-1.59	0.77	-0.01	-0.48	-0.47	0.05	-1.48	-0.56	-0.16	-0.77	-0.72	**-8.55**
3501	2,4,3,6,9,11,13,16,20,23,27,28,34,36,39,41,40,42,46,48,51	1.14	0.92	0.81	1.85	-0.83	-0.73	0.32	0.22	-0.28	1.39	-0.11	1.01	0.42	-0.56	-0.16	-0.77	-0.72	**3.92**
3502	2,4,3,6,9,11,13,16,20,23,27,28,34,36,39,41,40,42,46,48,52,53,54	0.82	0.92	0.46	1.46	-0.29	-1.59	0.08	0.40	-0.16	1.39	-0.43	0.05	-0.06	-0.56	-0.16	-0.77	-0.72	**0.83**
3503	2,4,3,6,9,11,13,16,20,23,27,28,34,36,39,41,40,42,47,50,54	-0.07	1.18	-0.39	0.42	0.59	-0.73	-0.64	0.40	0.54	1.62	-1.72	-0.90	-0.40	-0.56	-0.16	-0.77	-0.72	**-2.31**
3504	2,4,3,6,9,11,13,16,20,23,27,28,34,36,39,41,40,42,49,53,54	-0.11	0.92	-0.41	0.36	0.56	-1.59	-0.87	0.92	-0.04	1.49	-1.54	0.05	-0.43	-0.56	-0.16	-0.77	-0.72	**-2.89**
3505	2,4,3,6,9,11,13,16,20,23,27,28,34,36,39,41,43,47,46,48,51	1.15	1.18	0.82	1.93	-0.78	-0.73	0.32	0.22	-0.28	1.42	-0.11	1.01	0.43	-0.56	-0.16	-0.77	-0.72	**4.34**
3506	2,4,3,6,9,11,13,16,20,23,27,28,34,36,39,41,43,47,46,48,52,53,54	0.82	1.18	0.46	1.54	-0.25	-1.59	0.08	0.40	-0.16	1.42	-0.43	0.05	-0.06	-0.56	-0.16	-0.77	-0.72	**1.26**
3507	2,4,3,6,9,11,13,16,20,23,27,28,34,36,39,41,43,47,49,53,54	-0.11	1.44	-0.41	0.44	0.61	-1.59	-0.87	0.92	-0.04	1.53	-1.53	0.05	-0.43	-0.56	-0.16	-0.77	-0.72	**-2.21**
3508	2,4,3,6,9,11,13,16,20,23,27,28,34,36,39,41,43,50,54	-0.21	0.92	-0.43	0.33	0.54	-1.59	-0.64	0.40	0.54	1.57	-1.77	-0.90	-0.47	-0.56	-0.16	-0.77	-0.72	**-3.93**
3509	2,4,3,6,9,11,13,16,20,23,27,28,34,36,39,44,55	-1.14	-0.38	-0.08	0.13	0.44	-2.02	-1.83	0.22	0.29	1.55	-1.93	-0.90	-0.54	-0.56	-0.16	-0.77	-0.72	**-8.40**
3510	2,4,3,6,9,11,13,16,20,23,27,28,34,36,39,45,55	0.56	0.66	0.76	1.15	-0.06	0.13	-0.64	0.79	1.61	2.36	-1.22	-0.90	0.34	-0.56	-0.16	-0.77	-0.72	**3.34**
3511	2,4,3,6,9,11,13,16,20,23,27,28,34,38,40,42,46,48,51	-0.15	0.14	-0.31	1.56	0.51	-0.30	-0.40	0.44	0.07	-0.57	0.91	1.01	-0.61	-0.56	-0.16	-0.77	1.40	**2.21**
3512	2,4,3,6,9,11,13,16,20,23,27,28,34,38,40,42,46,48,52,53,54	-0.48	0.14	-0.67	1.18	1.05	-1.16	-0.64	0.62	0.19	-0.57	0.59	0.05	-1.10	-0.56	-0.16	-0.77	1.40	**-0.87**
3513	2,4,3,6,9,11,13,16,20,23,27,28,34,38,40,42,47,50,54	-1.36	0.40	-1.52	0.13	1.93	-0.30	-1.35	0.62	0.90	-0.34	-0.69	-0.90	-1.43	-0.56	-0.16	-0.77	1.40	**-4.01**
3514	2,4,3,6,9,11,13,16,20,23,27,28,34,38,40,42,49,53,54	-1.40	0.14	-1.54	0.08	1.90	-1.16	-1.59	1.14	0.32	-0.47	-0.51	0.05	-1.47	-0.56	-0.16	-0.77	1.40	**-4.60**
3515	2,4,3,6,9,11,13,16,20,23,27,28,34,38,41,44,55	-0.89	-0.64	-0.79	-0.15	1.77	-1.59	-1.59	0.44	0.64	-0.42	-0.22	-0.90	-0.94	-0.56	-0.16	-0.77	1.40	**-5.36**
3516	2,4,3,6,9,11,13,16,20,23,27,28,34,38,41,45,55	0.81	0.40	0.05	0.87	1.28	0.55	-0.40	1.02	1.97	0.39	0.49	-0.90	-0.07	-0.56	-0.16	-0.77	1.40	**6.38**
3517	2,4,3,6,9,11,13,16,20,23,27,28,34,38,43,47,46,48,51	-0.15	-0.12	-0.31	1.64	0.55	-0.30	-0.40	0.44	0.07	-0.54	0.92	1.01	-0.61	-0.56	-0.16	-0.77	1.40	**2.12**
3518	2,4,3,6,9,11,13,16,20,23,27,28,34,38,43,47,46,48,52,53,54	-0.47	-0.12	-0.67	1.26	1.09	-1.16	-0.64	0.62	0.19	-0.54	0.60	0.05	-1.09	-0.56	-0.16	-0.77	1.40	**-0.96**
3519	2,4,3,6,9,11,13,16,20,23,27,28,34,38,43,47,49,53,54	-1.40	0.14	-1.54	0.16	1.94	-1.16	-1.59	1.14	0.32	-0.43	-0.50	0.05	-1.46	-0.56	-0.16	-0.77	1.40	**-4.43**
3520	2,4,3,6,9,11,13,16,20,23,27,28,34,38,43,50,54	-1.50	-0.38	-1.55	0.04	1.88	-1.16	-1.35	0.62	0.90	-0.39	-0.75	-0.90	-1.51	-0.56	-0.16	-0.77	1.40	**-6.15**
3521	2,4,3,6,9,11,17,18,20,23,26,30,32,46,47,50,54	1.09	1.70	0.21	-0.21	0.29	0.98	1.28	-0.34	2.28	-0.15	0.97	-0.90	0.76	-0.46	-0.16	1.14	0.98	**9.45**
3522	2,4,3,6,9,11,17,18,20,23,26,30,32,46,49,53,54	1.04	1.44	0.19	-0.26	0.26	0.13	1.04	0.18	1.70	-0.28	1.13	0.05	0.73	-0.46	-0.16	1.14	0.98	**8.84**
3523	2,4,3,6,9,11,17,18,20,23,26,30,32,48,51	0.54	0.92	0.94	-0.85	-1.69	0.98	1.75	-0.52	1.45	-0.39	0.63	-0.90	1.23	-0.46	-0.16	1.14	0.98	**5.60**
3524	2,4,3,6,9,11,17,18,20,23,26,30,32,48,52,53,54	0.22	0.92	0.58	-1.24	-1.15	0.13	1.52	-0.34	1.57	-0.39	0.31	-1.85	0.75	-0.46	-0.16	1.14	0.98	**2.51**
3525	2,4,3,6,9,11,17,18,20,23,26,31,34,35,37,40,41,44,55	-0.74	0.40	-0.68	-0.19	0.56	-1.16	-1.35	0.07	0.67	-0.77	0.17	-0.90	-0.77	-1.19	-0.16	1.14	-0.72	**-5.62**
3526	2,4,3,6,9,11,17,18,20,23,26,31,34,35,37,40,41,45,55	0.97	1.44	0.16	0.83	0.07	0.98	-0.16	0.65	2.00	0.04	0.88	-0.90	0.11	-1.19	-0.16	1.14	-0.72	**6.12**
3527	2,4,3,6,9,11,17,18,20,23,26,31,34,35,37,40,43,47,46,48,51	0.01	1.44	-0.21	1.61	-0.66	0.13	-0.16	0.07	0.10	-0.89	1.30	1.01	-0.43	-1.19	-0.16	1.14	-0.72	**2.38**
3528	2,4,3,6,9,11,17,18,20,23,26,31,34,35,37,40,43,47,46,48,52,53,54	-0.32	1.44	-0.56	1.22	-0.12	-0.73	-0.40	0.25	0.22	-0.89	0.98	0.05	-0.92	-1.19	-0.16	1.14	-0.72	**-0.71**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
3529	2,4,3,6,9,11,17,18,20,23,26,31,34,35,37,40,43,47,49,53,54	-1.24	1.70	-1.43	0.12	0.73	-0.73	-1.35	0.77	0.35	-0.79	-0.12	0.05	-1.29	-1.19	-0.16	1.14	-0.72	**-4.17**
3530	2,4,3,6,9,11,17,18,20,23,26,31,34,35,37,40,43,50,54	-1.34	1.18	-1.45	0.00	0.66	-0.73	-1.11	0.25	0.93	-0.75	-0.36	-0.90	-1.33	-1.19	-0.16	1.14	-0.72	**-5.89**
3531	2,4,3,6,9,11,17,18,20,23,26,31,34,35,37,42,46,48,51	-0.12	0.66	-0.24	1.53	-0.70	-0.73	-0.16	0.07	0.10	-0.93	1.26	1.01	-0.51	-1.19	-0.16	1.14	-0.72	**0.30**
3532	2,4,3,6,9,11,17,18,20,23,26,31,34,35,37,42,46,48,52,53,54	-0.45	0.66	-0.60	1.14	-0.17	-1.59	-0.40	0.25	0.22	-0.93	0.95	0.05	-0.99	-1.19	-0.16	1.14	-0.72	**-2.78**
3533	2,4,3,6,9,11,17,18,20,23,26,31,34,35,37,42,47,50,54	-1.33	0.92	-1.45	0.09	0.71	-0.73	-1.11	0.25	0.93	-0.70	-0.34	-0.90	-1.33	-1.19	-0.16	1.14	-0.72	**-5.92**
3534	2,4,3,6,9,11,17,18,20,23,26,31,34,35,37,42,49,53,54	-1.38	0.66	-1.47	0.04	0.68	-1.59	-1.35	0.77	0.35	-0.82	-0.16	0.05	-1.36	-1.19	-0.16	1.14	-0.72	**-6.51**
3535	2,4,3,6,9,11,17,18,20,23,26,31,34,36,39,41,40,42,46,48,51	1.21	1.44	0.88	1.78	-1.32	-0.73	0.56	0.22	0.07	1.05	0.20	1.01	0.53	-1.19	-0.16	1.14	-0.72	**5.96**
3536	2,4,3,6,9,11,17,18,20,23,26,31,34,36,39,41,40,42,46,48,52,53,54	0.88	1.44	0.53	1.40	-0.79	-1.59	0.32	0.40	0.19	1.05	-0.12	0.05	0.05	-1.19	-0.16	1.14	-0.72	**2.88**
3537	2,4,3,6,9,11,17,18,20,23,26,31,34,36,39,41,40,42,47,50,54	0.00	1.70	-0.32	0.35	0.10	-0.73	-0.40	0.40	0.90	1.28	-1.41	-0.90	-0.29	-1.19	-0.16	1.14	-0.72	**-0.26**
3538	2,4,3,6,9,11,17,18,20,23,26,31,34,36,39,41,40,42,49,53,54	-0.04	1.44	-0.34	0.30	0.07	-1.59	-0.64	0.92	0.32	1.15	-1.23	0.05	-0.32	-1.19	-0.16	1.14	-0.72	**-0.85**
3539	2,4,3,6,9,11,17,18,20,23,26,31,34,36,39,41,43,47,46,48,51	1.21	1.70	0.88	1.86	-1.28	-0.73	0.56	0.22	0.07	1.08	0.20	1.01	0.54	-1.19	-0.16	1.14	-0.72	**6.39**
3540	2,4,3,6,9,11,17,18,20,23,26,31,34,36,39,41,43,47,46,48,52,53,54	0.89	1.70	0.53	1.48	-0.74	-1.59	0.32	0.40	0.19	1.08	-0.12	0.05	0.05	-1.19	-0.16	1.14	-0.72	**3.30**
3541	2,4,3,6,9,11,17,18,20,23,26,31,34,36,39,41,43,47,49,53,54	-0.04	1.96	-0.34	0.38	0.11	-1.59	-0.64	0.92	0.32	1.18	-1.22	0.05	-0.32	-1.19	-0.16	1.14	-0.72	**-0.16**
3542	2,4,3,6,9,11,17,18,20,23,26,31,34,36,39,41,43,50,54	-0.14	1.44	-0.36	0.26	0.05	-1.59	-0.40	0.40	0.90	1.23	-1.46	-0.90	-0.36	-1.19	-0.16	1.14	-0.72	**-1.88**
3543	2,4,3,6,9,11,17,18,20,23,26,31,34,36,39,44,55	-1.08	0.14	-0.01	0.07	-0.06	-2.02	-1.59	0.22	0.64	1.20	-1.61	-0.90	-0.42	-1.19	-0.16	1.14	-0.72	**-6.36**
3544	2,4,3,6,9,11,17,18,20,23,26,31,34,36,39,45,55	0.63	1.18	0.83	1.09	-0.55	0.13	-0.40	0.79	1.97	2.01	-0.91	-0.90	0.45	-1.19	-0.16	1.14	-0.72	**5.38**
3545	2,4,3,6,9,11,17,18,20,23,26,31,34,38,40,42,46,48,51	-0.08	0.66	-0.25	1.50	0.01	-0.30	-0.16	0.44	0.42	-0.92	1.23	1.01	-0.50	-1.19	-0.16	1.14	1.40	**4.26**
3546	2,4,3,6,9,11,17,18,20,23,26,31,34,38,40,42,46,48,52,53,54	-0.41	0.66	-0.60	1.11	0.55	-1.16	-0.40	0.62	0.55	-0.92	0.91	0.05	-0.99	-1.19	-0.16	1.14	1.40	**1.17**
3547	2,4,3,6,9,11,17,18,20,23,26,31,34,38,40,42,47,50,54	-1.29	0.92	-1.45	0.06	1.43	-0.30	-1.11	0.62	1.25	-0.68	-0.38	-0.90	-1.32	-1.19	-0.16	1.14	1.40	**-1.97**
3548	2,4,3,6,9,11,17,18,20,23,26,31,34,38,40,42,49,53,54	-1.34	0.66	-1.47	0.01	1.40	-1.16	-1.35	1.14	0.67	-0.81	-0.20	0.05	-1.36	-1.19	-0.16	1.14	1.40	**-2.55**
3549	2,4,3,6,9,11,17,18,20,23,26,31,34,38,41,44,55	-0.83	-0.12	-0.72	-0.22	1.27	-1.59	-1.35	0.44	1.00	-0.76	0.09	-0.90	-0.83	-1.19	-0.16	1.14	1.40	**-3.32**
3550	2,4,3,6,9,11,17,18,20,23,26,31,34,38,41,45,55	0.87	0.92	0.12	0.80	0.78	0.55	-0.16	1.02	2.32	0.05	0.80	-0.90	0.04	-1.19	-0.16	1.14	1.40	**8.42**
3551	2,4,3,6,9,11,17,18,20,23,26,31,34,38,43,47,46,48,51	-0.08	0.40	-0.24	1.58	0.06	-0.30	-0.16	0.44	0.42	-0.88	1.23	1.01	-0.50	-1.19	-0.16	1.14	1.40	**4.17**
3552	2,4,3,6,9,11,17,18,20,23,26,31,34,38,43,47,46,48,52,53,54	-0.41	0.40	-0.60	1.19	0.59	-1.16	-0.40	0.62	0.55	-0.88	0.91	0.05	-0.98	-1.19	-0.16	1.14	1.40	**1.08**
3553	2,4,3,6,9,11,17,18,20,23,26,31,34,38,43,47,49,53,54	-1.34	0.66	-1.47	0.09	1.45	-1.16	-1.35	1.14	0.67	-0.78	-0.19	0.05	-1.35	-1.19	-0.16	1.14	1.40	**-2.38**
3554	2,4,3,6,9,11,17,18,20,23,26,31,34,38,43,50,54	-1.44	0.14	-1.49	-0.03	1.38	-1.16	-1.11	0.62	1.25	-0.74	-0.43	-0.90	-1.40	-1.19	-0.16	1.14	1.40	**-4.10**
3555	2,4,3,6,9,11,17,18,20,23,26,33,37,40,41,44,55	-0.80	-0.64	-0.71	-0.21	0.20	-1.16	-1.11	0.07	0.37	-0.75	0.12	-0.90	-0.79	-1.19	-0.16	1.14	-0.72	**-7.25**
3556	2,4,3,6,9,11,17,18,20,23,26,33,37,40,41,45,55	0.90	0.40	0.13	0.81	-0.29	0.98	0.08	0.65	1.70	0.06	0.82	-0.90	0.09	-1.19	-0.16	1.14	-0.72	**4.48**
3557	2,4,3,6,9,11,17,18,20,23,26,33,37,40,43,47,46,48,51	-0.06	0.40	-0.24	1.59	-1.02	0.13	0.08	0.07	-0.20	-0.88	1.25	1.01	-0.45	-1.19	-0.16	1.14	-0.72	**0.74**
3558	2,4,3,6,9,11,17,18,20,23,26,33,37,40,43,47,46,48,52,53,54	-0.38	0.40	-0.60	1.20	-0.48	-0.73	-0.16	0.25	-0.08	-0.88	0.93	0.05	-0.94	-1.19	-0.16	1.14	-0.72	**-2.34**
3559	2,4,3,6,9,11,17,18,20,23,26,33,37,40,43,47,49,53,54	-1.31	0.66	-1.46	0.10	0.37	-0.73	-1.11	0.77	0.05	-0.77	-0.17	0.05	-1.31	-1.19	-0.16	1.14	-0.72	**-5.81**
3560	2,4,3,6,9,11,17,18,20,23,26,33,37,40,43,50,54	-1.41	0.14	-1.48	-0.02	0.31	-0.73	-0.87	0.25	0.63	-0.73	-0.42	-0.90	-1.35	-1.19	-0.16	1.14	-0.72	**-7.53**
3561	2,4,3,6,9,11,17,18,20,23,26,33,37,42,46,48,51	-0.19	-0.38	-0.28	1.51	-1.06	-0.73	0.08	0.07	-0.20	-0.91	1.21	1.01	-0.53	-1.19	-0.16	1.14	-0.72	**-1.33**
3562	2,4,3,6,9,11,17,18,20,23,26,33,37,42,46,48,52,53,54	-0.51	-0.38	-0.63	1.12	-0.53	-1.59	-0.16	0.25	-0.08	-0.91	0.89	0.05	-1.01	-1.19	-0.16	1.14	-0.72	**-4.42**
3563	2,4,3,6,9,11,17,18,20,23,26,33,37,42,47,50,54	-1.40	-0.12	-1.48	0.07	0.36	-0.73	-0.87	0.25	0.63	-0.68	-0.39	-0.90	-1.35	-1.19	-0.16	1.14	-0.72	**-7.55**
3564	2,4,3,6,9,11,17,18,20,23,26,33,37,42,49,53,54	-1.44	-0.38	-1.50	0.02	0.33	-1.59	-1.11	0.77	0.05	-0.81	-0.21	0.05	-1.38	-1.19	-0.16	1.14	-0.72	**-8.14**
3565	2,4,3,6,9,11,17,18,20,23,27,28,31,30,32,46,47,50,54	1.12	1.70	0.17	-0.18	0.50	0.98	1.28	-0.34	1.92	0.22	0.72	-0.90	0.73	-0.46	-0.16	-0.77	0.98	**7.49**
3566	2,4,3,6,9,11,17,18,20,23,27,28,31,30,32,46,49,53,54	1.08	1.44	0.15	-0.23	0.47	0.13	1.04	0.18	1.34	0.09	0.88	0.05	0.69	-0.46	-0.16	-0.77	0.98	**6.89**
3567	2,4,3,6,9,11,17,18,20,23,27,28,31,30,32,48,51	0.58	0.92	0.90	-0.82	-1.49	0.98	1.75	-0.52	1.10	-0.02	0.37	-0.90	1.20	-0.46	-0.16	-0.77	0.98	**3.64**
3568	2,4,3,6,9,11,17,18,20,23,27,28,31,30,32,48,52,53,54	0.25	0.92	0.54	-1.21	-0.95	0.13	1.52	-0.34	1.22	-0.02	0.05	-1.85	0.72	-0.46	-0.16	-0.77	0.98	**0.55**
3569	2,4,3,6,9,11,17,18,20,23,27,28,31,33,37,40,41,44,55	-0.77	-0.12	-0.75	-0.18	0.40	-1.16	-1.11	0.07	0.02	-0.39	-0.14	-0.90	-0.82	-1.19	-0.16	-0.77	-0.72	**-8.69**
3570	2,4,3,6,9,11,17,18,20,23,27,28,31,33,37,40,41,45,55	0.94	0.92	0.09	0.83	-0.09	0.98	0.08	0.65	1.34	0.42	0.57	-0.90	0.05	-1.19	-0.16	-0.77	-0.72	**3.04**
3571	2,4,3,6,9,11,17,18,20,23,27,28,31,33,37,40,43,47,46,48,51	-0.02	0.92	-0.28	1.61	-0.81	0.13	0.08	0.07	-0.56	-0.51	0.99	1.01	-0.49	-1.19	-0.16	-0.77	-0.72	**-0.70**
3572	2,4,3,6,9,11,17,18,20,23,27,28,31,33,37,40,43,47,46,48,52,53,54	-0.35	0.92	-0.64	1.23	-0.28	-0.73	-0.16	0.25	-0.43	-0.51	0.67	0.05	-0.97	-1.19	-0.16	-0.77	-0.72	**-3.78**
3573	2,4,3,6,9,11,17,18,20,23,27,28,31,33,37,40,43,47,49,53,54	-1.27	1.18	-1.50	0.13	0.58	-0.73	-1.11	0.77	-0.31	-0.40	-0.43	0.05	-1.34	-1.19	-0.16	-0.77	-0.72	**-7.25**
3574	2,4,3,6,9,11,17,18,20,23,27,28,31,33,37,40,43,50,54	-1.37	0.66	-1.52	0.01	0.51	-0.73	-0.87	0.25	0.27	-0.36	-0.67	-0.90	-1.39	-1.19	-0.16	-0.77	-0.72	**-8.97**
3575	2,4,3,6,9,11,17,18,20,23,27,28,31,33,37,42,46,48,51	-0.15	0.14	-0.32	1.53	-0.86	-0.73	0.08	0.07	-0.56	-0.54	0.95	1.01	-0.56	-1.19	-0.16	-0.77	-0.72	**-2.77**
3576	2,4,3,6,9,11,17,18,20,23,27,28,31,33,37,42,46,48,52,53,54	-0.48	0.14	-0.67	1.15	-0.32	-1.59	-0.16	0.25	-0.43	-0.54	0.64	0.05	-1.05	-1.19	-0.16	-0.77	-0.72	**-5.85**
3577	2,4,3,6,9,11,17,18,20,23,27,28,31,33,37,42,47,50,54	-1.36	0.40	-1.52	0.10	0.56	-0.73	-0.87	0.25	0.27	-0.31	-0.65	-0.90	-1.38	-1.19	-0.16	-0.77	-0.72	**-8.99**
3578	2,4,3,6,9,11,17,18,20,23,27,28,31,33,37,42,49,53,54	-1.41	0.14	-1.54	0.05	0.53	-1.59	-1.11	0.77	-0.31	-0.44	-0.47	0.05	-1.42	-1.19	-0.16	-0.77	-0.72	**-9.58**
3579	2,4,3,6,9,11,17,18,20,23,27,28,34,35,37,40,41,44,55	-0.79	-0.12	-0.75	-0.16	0.76	-1.16	-1.35	0.07	0.32	-0.43	-0.17	-0.90	-0.87	-1.19	-0.16	-0.77	-0.72	**-8.39**
3580	2,4,3,6,9,11,17,18,20,23,27,28,34,35,37,40,41,45,55	0.91	0.92	0.09	0.86	0.27	0.98	-0.16	0.65	1.64	0.38	0.54	-0.90	0.01	-1.19	-0.16	-0.77	-0.72	**3.35**
3581	2,4,3,6,9,11,17,18,20,23,27,28,34,35,37,40,43,47,46,48,51	-0.05	0.92	-0.27	1.63	-0.46	0.13	-0.16	0.07	-0.25	-0.55	0.97	1.01	-0.53	-1.19	-0.16	-0.77	-0.72	**-0.39**
3582	2,4,3,6,9,11,17,18,20,23,27,28,34,35,37,40,43,47,46,48,52,53,54	-0.38	0.92	-0.63	1.25	0.08	-0.73	-0.40	0.25	-0.13	-0.55	0.65	0.05	-1.02	-1.19	-0.16	-0.77	-0.72	**-3.47**
3583	2,4,3,6,9,11,17,18,20,23,27,28,34,35,37,40,43,47,49,53,54	-1.30	1.18	-1.50	0.15	0.93	-0.73	-1.35	0.77	-0.01	-0.45	-0.46	0.05	-1.39	-1.19	-0.16	-0.77	-0.72	**-6.94**
3584	2,4,3,6,9,11,17,18,20,23,27,28,34,35,37,40,43,50,54	-1.40	0.66	-1.52	0.03	0.87	-0.73	-1.11	0.25	0.57	-0.40	-0.70	-0.90	-1.43	-1.19	-0.16	-0.77	-0.72	**-8.66**
3585	2,4,3,6,9,11,17,18,20,23,27,28,34,35,37,42,46,48,51	-0.18	0.14	-0.31	1.55	-0.50	-0.73	-0.16	0.07	-0.25	-0.58	0.93	1.01	-0.61	-1.19	-0.16	-0.77	-0.72	**-2.46**
3586	2,4,3,6,9,11,17,18,20,23,27,28,34,35,37,42,46,48,52,53,54	-0.51	0.14	-0.67	1.17	0.04	-1.59	-0.40	0.25	-0.13	-0.58	0.61	0.05	-1.09	-1.19	-0.16	-0.77	-0.72	**-5.55**
3587	2,4,3,6,9,11,17,18,20,23,27,28,34,35,37,42,47,50,54	-1.39	0.40	-1.51	0.12	0.92	-0.73	-1.11	0.25	0.57	-0.35	-0.68	-0.90	-1.43	-1.19	-0.16	-0.77	-0.72	**-8.69**
3588	2,4,3,6,9,11,17,18,20,23,27,28,34,35,37,42,49,53,54	-1.44	0.14	-1.53	0.07	0.89	-1.59	-1.35	0.77	-0.01	-0.48	-0.49	0.05	-1.46	-1.19	-0.16	-0.77	-0.72	**-9.27**
3589	2,4,3,6,9,11,17,18,20,23,27,28,34,36,39,41,40,42,46,48,51	1.15	0.92	0.82	1.81	-1.12	-0.73	0.56	0.22	-0.28	1.39	-0.14	1.01	0.44	-1.19	-0.16	-0.77	-0.72	**3.20**
3590	2,4,3,6,9,11,17,18,20,23,27,28,34,36,39,41,40,42,46,48,52,53,54	0.83	0.92	0.46	1.42	-0.58	-1.59	0.32	0.40	-0.16	1.39	-0.46	0.05	-0.05	-1.19	-0.16	-0.77	-0.72	**0.11**
3591	2,4,3,6,9,11,17,18,20,23,27,28,34,36,39,41,40,42,47,50,54	-0.06	1.18	-0.39	0.38	0.30	-0.73	-0.40	0.40	0.54	1.62	-1.74	-0.90	-0.38	-1.19	-0.16	-0.77	-0.72	**-3.03**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
3592	2,4,3,6,9,11,17,18,20,23,27,28,34,36,39,41,40,42,49,53,54	-0.10	0.92	-0.41	0.32	0.27	-1.59	-0.64	0.92	-0.04	1.49	-1.56	0.05	-0.42	-1.19	-0.16	-0.77	-0.72	**-3.61**
3593	2,4,3,6,9,11,17,18,20,23,27,28,34,36,39,41,43,47,46,48,51	1.15	1.18	0.82	1.89	-1.07	-0.73	0.56	0.22	-0.28	1.42	-0.13	1.01	0.44	-1.19	-0.16	-0.77	-0.72	**3.62**
3594	2,4,3,6,9,11,17,18,20,23,27,28,34,36,39,41,43,47,46,48,52,53,54	0.83	1.18	0.46	1.50	-0.54	-1.59	0.32	0.40	-0.16	1.42	-0.45	0.05	-0.05	-1.19	-0.16	-0.77	-0.72	**0.54**
3595	2,4,3,6,9,11,17,18,20,23,27,28,34,36,39,41,43,47,49,53,54	-0.10	1.44	-0.40	0.40	0.32	-1.59	-0.64	0.92	-0.04	1.53	-1.56	0.05	-0.42	-1.19	-0.16	-0.77	-0.72	**-2.93**
3596	2,4,3,6,9,11,17,18,20,23,27,28,34,36,39,41,43,50,54	-0.20	0.92	-0.42	0.29	0.25	-1.59	-0.40	0.40	0.54	1.57	-1.80	-0.90	-0.46	-1.19	-0.16	-0.77	-0.72	**-4.65**
3597	2,4,3,6,9,11,17,18,20,23,27,28,34,36,39,44,55	-1.13	-0.38	-0.07	0.09	0.14	-2.02	-1.59	0.22	0.29	1.55	-1.95	-0.90	-0.52	-1.19	-0.16	-0.77	-0.72	**-9.12**
3598	2,4,3,6,9,11,17,18,20,23,27,28,34,36,39,45,55	0.57	0.66	0.77	1.11	-0.35	0.13	-0.40	0.79	1.61	2.36	-1.24	-0.90	0.35	-1.19	-0.16	-0.77	-0.72	**2.62**
3599	2,4,3,6,9,11,17,18,20,23,27,28,34,38,40,42,46,48,51	-0.14	0.14	-0.31	1.52	0.22	-0.30	-0.16	0.44	0.07	-0.57	0.89	1.01	-0.60	-1.19	-0.16	-0.77	1.40	**1.49**
3600	2,4,3,6,9,11,17,18,20,23,27,28,34,38,40,42,46,48,52,53,54	-0.47	0.14	-0.67	1.14	0.76	-1.16	-0.40	0.62	0.19	-0.57	0.57	0.05	-1.08	-1.19	-0.16	-0.77	1.40	**-1.59**
3601	2,4,3,6,9,11,17,18,20,23,27,28,34,38,40,42,47,50,54	-1.35	0.40	-1.52	0.09	1.64	-0.30	-1.11	0.62	0.90	-0.34	-0.72	-0.90	-1.42	-1.19	-0.16	-0.77	1.40	**-4.73**
3602	2,4,3,6,9,11,17,18,20,23,27,28,34,38,40,42,49,53,54	-1.40	0.14	-1.54	0.04	1.61	-1.16	-1.35	1.14	0.32	-0.47	-0.53	0.05	-1.46	-1.19	-0.16	-0.77	1.40	**-5.32**
3603	2,4,3,6,9,11,17,18,20,23,27,28,34,38,41,44,55	-0.88	-0.64	-0.79	-0.19	1.48	-1.59	-1.35	0.44	0.64	-0.42	-0.24	-0.90	-0.93	-1.19	-0.16	-0.77	1.40	**-6.08**
3604	2,4,3,6,9,11,17,18,20,23,27,28,34,38,41,45,55	0.82	0.40	0.06	0.83	0.99	0.55	-0.16	1.02	1.97	0.39	0.46	-0.90	-0.05	-1.19	-0.16	-0.77	1.40	**5.66**
3605	2,4,3,6,9,11,17,18,20,23,27,28,34,38,43,47,46,48,51	-0.14	-0.12	-0.31	1.60	0.26	-0.30	-0.16	0.44	0.07	-0.54	0.89	1.01	-0.60	-1.19	-0.16	-0.77	1.40	**1.40**
3606	2,4,3,6,9,11,17,18,20,23,27,28,34,38,43,47,46,48,52,53,54	-0.47	-0.12	-0.67	1.22	0.80	-1.16	-0.40	0.62	0.19	-0.54	0.58	0.05	-1.08	-1.19	-0.16	-0.77	1.40	**-1.68**
3607	2,4,3,6,9,11,17,18,20,23,27,28,34,38,43,47,49,53,54	-1.39	0.14	-1.53	0.12	1.65	-1.16	-1.35	1.14	0.32	-0.43	-0.53	0.05	-1.45	-1.19	-0.16	-0.77	1.40	**-5.15**
3608	2,4,3,6,9,11,17,18,20,23,27,28,34,38,43,50,54	-1.49	-0.38	-1.55	0.00	1.59	-1.16	-1.11	0.62	0.90	-0.39	-0.77	-0.90	-1.49	-1.19	-0.16	-0.77	1.40	**-6.87**
3609	2,4,3,6,9,11,17,19,22,24,29,36,35,37,40,41,44,55	0.77	0.66	0.59	-0.68	-0.33	-0.30	-0.16	-0.97	0.10	-0.55	0.56	-0.90	1.05	0.89	-0.16	-0.77	-0.72	**-0.93**
3610	2,4,3,6,9,11,17,19,22,24,29,36,35,37,40,41,45,55	2.47	1.70	1.43	0.34	-0.83	1.84	1.04	-0.40	1.42	0.26	1.27	-0.90	1.93	0.89	-0.16	-0.77	-0.72	**10.81**
3611	2,4,3,6,9,11,17,19,22,24,29,36,35,37,40,43,47,46,48,51	1.51	1.70	1.07	1.12	-1.55	0.98	1.04	-0.97	-0.47	-0.67	1.69	1.01	1.39	0.89	-0.16	-0.77	-0.72	**7.07**
3612	2,4,3,6,9,11,17,19,22,24,29,36,35,37,40,43,47,46,48,52,53,54	1.19	1.70	0.71	0.73	-1.01	0.13	0.80	-0.80	-0.35	-0.67	1.38	0.05	0.90	0.89	-0.16	-0.77	-0.72	**3.98**
3613	2,4,3,6,9,11,17,19,22,24,29,36,35,37,40,43,47,49,53,54	0.26	1.96	-0.16	-0.37	-0.16	0.13	-0.16	-0.28	-0.23	-0.57	0.27	0.05	0.53	0.89	-0.16	-0.77	-0.72	**0.52**
3614	2,4,3,6,9,11,17,19,22,24,29,36,35,37,40,43,50,54	0.16	1.44	-0.18	-0.49	-0.23	0.13	0.08	-0.80	0.36	-0.52	0.03	-0.90	0.49	0.89	-0.16	-0.77	-0.72	**-1.20**
3615	2,4,3,6,9,11,17,19,22,24,29,36,35,37,42,46,48,51	1.38	0.92	1.03	1.04	-1.60	0.13	1.04	-0.97	-0.47	-0.71	1.66	1.01	1.31	0.89	-0.16	-0.77	-0.72	**5.00**
3616	2,4,3,6,9,11,17,19,22,24,29,36,35,37,42,46,48,52,53,54	1.06	0.92	0.67	0.65	-1.06	-0.73	0.80	-0.80	-0.35	-0.71	1.34	0.05	0.83	0.89	-0.16	-0.77	-0.72	**1.91**
3617	2,4,3,6,9,11,17,19,22,24,29,36,35,37,42,47,50,54	0.17	1.18	-0.17	-0.40	-0.18	0.13	0.08	-0.80	0.36	-0.47	0.05	-0.90	0.49	0.89	-0.16	-0.77	-0.72	**-1.23**
3618	2,4,3,6,9,11,17,19,22,24,29,36,35,37,42,49,53,54	0.13	0.92	-0.19	-0.45	-0.21	-0.73	-0.16	-0.28	-0.23	-0.60	0.24	0.05	0.46	0.89	-0.16	-0.77	-0.72	**-1.81**
3619	2,4,3,6,9,11,17,19,22,24,29,36,38,40,42,46,48,51	1.42	1.18	1.03	1.01	-0.88	0.55	1.04	-0.61	-0.15	-0.69	1.62	1.01	1.32	0.89	-0.16	-0.77	1.40	**9.21**
3620	2,4,3,6,9,11,17,19,22,24,29,36,38,40,42,46,48,52,53,54	1.10	1.18	0.67	0.62	-0.34	-0.30	0.80	-0.43	-0.03	-0.69	1.30	0.05	0.84	0.89	-0.16	-0.77	1.40	**6.12**
3621	2,4,3,6,9,11,17,19,22,24,29,36,38,40,42,47,50,54	0.21	1.44	-0.17	-0.43	0.54	0.55	0.08	-0.43	0.68	-0.46	0.01	-0.90	0.50	0.89	-0.16	-0.77	1.40	**2.98**
3622	2,4,3,6,9,11,17,19,22,24,29,36,38,40,42,49,53,54	0.17	1.18	-0.19	-0.48	0.51	-0.30	-0.16	0.09	0.10	-0.59	0.19	0.05	0.47	0.89	-0.16	-0.77	1.40	**2.40**
3623	2,4,3,6,9,11,17,19,22,24,29,36,38,41,44,55	0.68	0.40	0.56	-0.71	0.38	-0.73	-0.16	-0.61	0.42	-0.54	0.49	-0.90	0.99	0.89	-0.16	-0.77	1.40	**1.64**
3624	2,4,3,6,9,11,17,19,22,24,29,36,38,41,45,55	2.38	1.44	1.40	0.31	-0.11	1.41	1.04	-0.03	1.75	0.27	1.19	-0.90	1.87	0.89	-0.16	-0.77	1.40	**13.37**
3625	2,4,3,6,9,11,17,19,22,24,29,36,38,43,47,46,48,51	1.42	0.92	1.03	1.09	-0.83	0.55	1.04	-0.61	-0.15	-0.66	1.62	1.01	1.33	0.89	-0.16	-0.77	1.40	**9.12**
3626	2,4,3,6,9,11,17,19,22,24,29,36,38,43,47,46,48,52,53,54	1.10	0.92	0.67	0.70	-0.30	-0.30	0.80	-0.43	-0.03	-0.66	1.30	0.05	0.84	0.89	-0.16	-0.77	1.40	**6.03**
3627	2,4,3,6,9,11,17,19,22,24,29,36,38,43,47,49,53,54	0.17	1.18	-0.19	-0.40	0.55	-0.30	-0.16	0.09	0.10	-0.56	0.20	0.05	0.47	0.89	-0.16	-0.77	1.40	**2.57**
3628	2,4,3,6,9,11,17,19,22,24,29,36,38,43,50,54	0.07	0.66	-0.21	-0.52	0.49	-0.30	0.08	-0.43	0.68	-0.51	-0.04	-0.90	0.43	0.89	-0.16	-0.77	1.40	**0.85**
3629	2,4,3,6,9,11,17,19,22,24,29,39,41,40,42,46,48,51	1.62	0.92	1.86	0.66	-2.21	-0.73	1.75	-0.83	-0.50	0.63	0.35	1.01	1.80	0.89	-0.16	-0.77	-0.72	**5.56**
3630	2,4,3,6,9,11,17,19,22,24,29,39,41,40,42,46,48,52,53,54	1.30	0.92	1.51	0.28	-1.68	-1.59	1.52	-0.65	-0.38	0.63	0.03	0.05	1.32	0.89	-0.16	-0.77	-0.72	**2.48**
3631	2,4,3,6,9,11,17,19,22,24,29,39,41,40,42,47,50,54	0.41	1.18	0.66	-0.77	-0.80	-0.73	0.80	-0.65	0.33	0.86	-1.26	-0.90	0.98	0.89	-0.16	-0.77	-0.72	**-0.66**
3632	2,4,3,6,9,11,17,19,22,24,29,39,41,40,42,49,53,54	0.37	0.92	0.64	-0.82	-0.82	-1.59	0.56	-0.13	-0.26	0.73	-1.07	0.05	0.94	0.89	-0.16	-0.77	-0.72	**-1.25**
3633	2,4,3,6,9,11,17,19,22,24,29,39,41,43,47,46,48,51	1.62	1.18	1.86	0.74	-2.17	-0.73	1.75	-0.83	-0.50	0.66	0.35	1.01	1.80	0.89	-0.16	-0.77	-0.72	**5.99**
3634	2,4,3,6,9,11,17,19,22,24,29,39,41,43,47,46,48,52,53,54	1.30	1.18	1.51	0.36	-1.63	-1.59	1.52	-0.65	-0.38	0.66	0.04	0.05	1.32	0.89	-0.16	-0.77	-0.72	**2.90**
3635	2,4,3,6,9,11,17,19,22,24,29,39,41,43,47,49,53,54	0.37	1.44	0.64	-0.74	-0.78	-1.59	0.56	-0.13	-0.26	0.76	-1.07	0.05	0.95	0.89	-0.16	-0.77	-0.72	**-0.56**
3636	2,4,3,6,9,11,17,19,22,24,29,39,41,43,50,54	0.27	0.92	0.62	-0.86	-0.85	-1.59	0.80	-0.65	0.33	0.81	-1.31	-0.90	0.90	0.89	-0.16	-0.77	-0.72	**-2.28**
3637	2,4,3,6,9,11,17,19,22,24,29,39,44,55	-0.66	-0.38	0.97	-1.05	-0.95	-2.02	-0.40	-0.83	0.07	0.78	-1.46	-0.90	0.84	0.89	-0.16	-0.77	-0.72	**-6.76**
3638	2,4,3,6,9,11,17,19,22,24,29,39,45,55	1.04	0.66	1.81	-0.03	-1.44	0.13	0.80	-0.25	1.39	1.59	-0.76	-0.90	1.72	0.89	-0.16	-0.77	-0.72	**4.98**
3639	2,4,3,6,9,11,17,19,22,25,29,36,35,37,40,41,44,55	0.56	0.40	0.53	-1.11	0.00	-0.30	0.08	-0.95	-0.34	-0.48	0.20	-0.90	0.99	0.92	-0.16	-0.77	-0.72	**-2.06**
3640	2,4,3,6,9,11,17,19,22,25,29,36,35,37,40,41,45,55	2.26	1.44	1.37	-0.09	-0.49	1.84	1.28	-0.37	0.99	0.33	0.90	-0.90	1.87	0.92	-0.16	-0.77	-0.72	**9.68**
3641	2,4,3,6,9,11,17,19,22,25,29,36,35,37,40,43,47,46,48,51	1.30	1.44	1.01	0.68	-1.22	0.98	1.28	-0.95	-0.91	-0.60	1.33	1.01	1.33	0.92	-0.16	-0.77	-0.72	**5.94**
3642	2,4,3,6,9,11,17,19,22,25,29,36,35,37,40,43,47,46,48,52,53,54	0.97	1.44	0.65	0.30	-0.68	0.13	1.04	-0.77	-0.79	-0.60	1.01	0.05	0.84	0.92	-0.16	-0.77	-0.72	**2.85**
3643	2,4,3,6,9,11,17,19,22,25,29,36,35,37,40,43,47,49,53,54	0.05	1.70	-0.21	-0.80	0.17	0.13	0.08	-0.25	-0.66	-0.50	-0.09	0.05	0.47	0.92	-0.16	-0.77	-0.72	**-0.61**
3644	2,4,3,6,9,11,17,19,22,25,29,36,35,37,40,43,50,54	-0.05	1.18	-0.23	-0.92	0.10	0.13	0.32	-0.77	-0.08	-0.46	-0.34	-0.90	0.43	0.92	-0.16	-0.77	-0.72	**-2.33**
3645	2,4,3,6,9,11,17,19,22,25,29,36,35,37,42,46,48,51	1.17	0.66	0.97	0.60	-1.26	0.13	1.28	-0.95	-0.91	-0.64	1.29	1.01	1.26	0.92	-0.16	-0.77	-0.72	**3.87**
3646	2,4,3,6,9,11,17,19,22,25,29,36,35,37,42,46,48,52,53,54	0.84	0.66	0.62	0.22	-0.73	-0.73	1.04	-0.77	-0.79	-0.64	0.97	0.05	0.77	0.92	-0.16	-0.77	-0.72	**0.78**
3647	2,4,3,6,9,11,17,19,22,25,29,36,35,37,42,47,50,54	-0.04	0.92	-0.23	-0.83	0.15	0.13	0.32	-0.77	-0.08	-0.40	-0.31	-0.90	0.43	0.92	-0.16	-0.77	-0.72	**-2.36**
3648	2,4,3,6,9,11,17,19,22,25,29,36,35,37,42,49,53,54	-0.09	0.66	-0.25	-0.88	0.13	-0.73	0.08	-0.25	-0.66	-0.53	-0.13	0.05	0.40	0.92	-0.16	-0.77	-0.72	**-2.94**
3649	2,4,3,6,9,11,17,19,22,25,29,36,38,40,42,46,48,51	1.21	0.92	0.97	0.57	-0.55	0.55	1.28	-0.58	-0.59	-0.62	1.25	1.01	1.26	0.92	-0.16	-0.77	1.40	**8.08**
3650	2,4,3,6,9,11,17,19,22,25,29,36,38,40,42,46,48,52,53,54	0.88	0.92	0.61	0.19	-0.01	-0.30	1.04	-0.41	-0.47	-0.62	0.93	0.05	0.78	0.92	-0.16	-0.77	1.40	**4.99**
3651	2,4,3,6,9,11,17,19,22,25,29,36,38,40,42,47,50,54	0.00	1.18	-0.23	-0.86	0.87	0.55	0.32	-0.41	0.24	-0.39	-0.35	-0.90	0.44	0.92	-0.16	-0.77	1.40	**1.85**
3652	2,4,3,6,9,11,17,19,22,25,29,36,38,40,42,49,53,54	-0.05	0.92	-0.25	-0.91	0.84	-0.30	0.08	0.12	-0.34	-0.52	-0.17	0.05	0.41	0.92	-0.16	-0.77	1.40	**1.27**
3653	2,4,3,6,9,11,17,19,22,25,29,36,38,41,44,55	0.46	0.14	0.50	-1.14	0.72	-0.73	0.08	-0.58	-0.01	-0.47	0.12	-0.90	0.93	0.92	-0.16	-0.77	1.40	**0.50**
3654	2,4,3,6,9,11,17,19,22,25,29,36,38,41,45,55	2.16	1.18	1.34	-0.12	0.22	1.41	1.28	-0.01	1.31	0.34	0.83	-0.90	1.81	0.92	-0.16	-0.77	1.40	**12.24**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
3655	2,4,3,6,9,11,17,19,22,25,29,36,38,43,47,46,48,51	1.21	0.66	0.97	0.65	-0.50	0.55	1.28	-0.58	-0.59	-0.59	1.26	1.01	1.27	0.92	-0.16	-0.77	1.40	**7.99**
3656	2,4,3,6,9,11,17,19,22,25,29,36,38,43,47,46,48,52,53,54	0.88	0.66	0.62	0.27	0.04	-0.30	1.04	-0.41	-0.47	-0.59	0.94	0.05	0.78	0.92	-0.16	-0.77	1.40	**4.90**
3657	2,4,3,6,9,11,17,19,22,25,29,36,38,43,47,49,53,54	-0.05	0.92	-0.25	-0.83	0.89	-0.30	0.08	0.12	-0.34	-0.49	-0.17	0.05	0.41	0.92	-0.16	-0.77	1.40	**1.44**
3658	2,4,3,6,9,11,17,19,22,25,29,36,38,43,50,54	-0.15	0.40	-0.27	-0.95	0.82	-0.30	0.32	-0.41	0.24	-0.44	-0.41	-0.90	0.37	0.92	-0.16	-0.77	1.40	**-0.28**
3659	2,4,3,6,9,11,17,19,22,25,29,39,41,40,42,46,48,51	1.41	0.66	1.80	0.23	-1.88	-0.73	1.99	-0.81	-0.94	0.70	-0.02	1.01	1.74	0.92	-0.16	-0.77	-0.72	**4.43**
3660	2,4,3,6,9,11,17,19,22,25,29,39,41,40,42,46,48,52,53,54	1.08	0.66	1.45	-0.16	-1.34	-1.59	1.75	-0.63	-0.82	0.70	-0.34	0.05	1.26	0.92	-0.16	-0.77	-0.72	**1.34**
3661	2,4,3,6,9,11,17,19,22,25,29,39,41,40,42,47,50,54	0.20	0.92	0.60	-1.20	-0.46	-0.73	1.04	-0.63	-0.11	0.93	-1.62	-0.90	0.92	0.92	-0.16	-0.77	-0.72	**-1.80**
3662	2,4,3,6,9,11,17,19,22,25,29,39,41,40,42,49,53,54	0.15	0.66	0.58	-1.26	-0.49	-1.59	0.80	-0.11	-0.69	0.80	-1.44	0.05	0.89	0.92	-0.16	-0.77	-0.72	**-2.38**
3663	2,4,3,6,9,11,17,19,22,25,29,39,41,43,47,46,48,51	1.41	0.92	1.81	0.31	-1.84	-0.73	1.99	-0.81	-0.94	0.73	-0.01	1.01	1.75	0.92	-0.16	-0.77	-0.72	**4.86**
3664	2,4,3,6,9,11,17,19,22,25,29,39,41,43,47,46,48,52,53,54	1.08	0.92	1.45	-0.08	-1.30	-1.59	1.75	-0.63	-0.82	0.73	-0.33	0.05	1.26	0.92	-0.16	-0.77	-0.72	**1.77**
3665	2,4,3,6,9,11,17,19,22,25,29,39,41,43,47,49,53,54	0.16	1.18	0.58	-1.18	-0.45	-1.59	0.80	-0.11	-0.69	0.83	-1.43	0.05	0.89	0.92	-0.16	-0.77	-0.72	**-1.69**
3666	2,4,3,6,9,11,17,19,22,25,29,39,41,43,50,54	0.06	0.66	0.56	-1.29	-0.51	-1.59	1.04	-0.63	-0.11	0.88	-1.68	-0.90	0.85	0.92	-0.16	-0.77	-0.72	**-3.41**
3667	2,4,3,6,9,11,17,19,22,25,29,39,44,55	-0.88	-0.64	0.91	-1.49	-0.62	-2.02	-0.16	-0.81	-0.37	0.85	-1.83	-0.90	0.78	0.92	-0.16	-0.77	-0.72	**-7.89**
3668	2,4,3,6,9,11,17,19,22,25,29,39,45,55	0.82	0.40	1.75	-0.47	-1.11	0.13	1.04	-0.23	0.96	1.66	-1.12	-0.90	1.66	0.92	-0.16	-0.77	-0.72	**3.85**
3669	2,4,3,6,9,11,17,21,27,26,30,32,46,47,50,54	1.09	1.70	0.35	-0.45	0.33	1.84	1.75	-1.03	1.74	-0.60	1.39	-0.90	1.03	-0.37	-0.16	1.14	0.98	**9.84**
3670	2,4,3,6,9,11,17,21,27,26,30,32,46,49,53,54	1.05	1.44	0.33	-0.51	0.30	0.98	1.52	-0.51	1.16	-0.72	1.55	0.05	1.00	-0.37	-0.16	1.14	0.98	**9.23**
3671	2,4,3,6,9,11,17,21,27,26,30,32,48,51	0.55	0.92	1.08	-1.10	-1.66	1.84	2.23	-1.21	0.91	-0.83	1.05	-0.90	1.50	-0.37	-0.16	1.14	0.98	**5.98**
3672	2,4,3,6,9,11,17,21,27,26,30,32,48,52,53,54	0.22	0.92	0.72	-1.49	-1.12	0.98	1.99	-1.03	1.04	-0.83	0.73	-1.85	1.02	-0.37	-0.16	1.14	0.98	**2.90**
3673	2,4,3,6,9,11,17,21,27,26,31,34,35,37,40,41,44,55	-0.73	0.40	-0.54	-0.44	0.59	-0.30	-0.87	-0.62	0.14	-1.22	0.59	-0.90	-0.50	-1.09	-0.16	1.14	-0.72	**-5.23**
3674	2,4,3,6,9,11,17,21,27,26,31,34,35,37,40,41,45,55	0.97	1.44	0.30	0.58	0.10	1.84	0.32	-0.04	1.46	-0.41	1.30	-0.90	0.38	-1.09	-0.16	1.14	-0.72	**6.50**
3675	2,4,3,6,9,11,17,21,27,26,31,34,35,37,40,43,47,46,48,51	0.01	1.44	-0.07	1.36	-0.63	0.98	0.32	-0.62	-0.44	-1.34	1.72	1.01	-0.16	-1.09	-0.16	1.14	-0.72	**2.76**
3676	2,4,3,6,9,11,17,21,27,26,31,34,35,37,40,43,47,46,48,52,53,54	-0.31	1.44	-0.42	0.97	-0.09	0.13	0.08	-0.44	-0.31	-1.34	1.40	0.05	-0.65	-1.09	-0.16	1.14	-0.72	**-0.32**
3677	2,4,3,6,9,11,17,21,27,26,31,34,35,37,40,43,47,49,53,54	-1.24	1.70	-1.29	-0.13	0.76	0.13	-0.87	0.08	-0.19	-1.23	0.30	0.05	-1.02	-1.09	-0.16	1.14	-0.72	**-3.79**
3678	2,4,3,6,9,11,17,21,27,26,31,34,35,37,40,43,50,54	-1.34	1.18	-1.31	-0.24	0.70	0.13	-0.64	-0.44	0.39	-1.19	0.06	-0.90	-1.06	-1.09	-0.16	1.14	-0.72	**-5.51**
3679	2,4,3,6,9,11,17,21,27,26,31,34,35,37,42,46,48,51	-0.12	0.66	-0.10	1.28	-0.67	0.13	0.32	-0.62	-0.44	-1.37	1.68	1.01	-0.24	-1.09	-0.16	1.14	-0.72	**0.69**
3680	2,4,3,6,9,11,17,21,27,26,31,34,35,37,42,46,48,52,53,54	-0.44	0.66	-0.46	0.89	-0.13	-0.73	0.08	-0.44	-0.31	-1.37	1.37	0.05	-0.72	-1.09	-0.16	1.14	-0.72	**-2.40**
3681	2,4,3,6,9,11,17,21,27,26,31,34,35,37,42,47,50,54	-1.33	0.92	-1.31	-0.15	0.75	0.13	-0.64	-0.44	0.39	-1.14	0.08	-0.90	-1.06	-1.09	-0.16	1.14	-0.72	**-5.53**
3682	2,4,3,6,9,11,17,21,27,26,31,34,35,37,42,49,53,54	-1.37	0.66	-1.33	-0.21	0.72	-0.73	-0.87	0.08	-0.19	-1.27	0.26	0.05	-1.09	-1.09	-0.16	1.14	-0.72	**-6.12**
3683	2,4,3,6,9,11,17,21,27,26,31,34,36,39,41,40,42,46,48,51	1.22	1.44	1.02	1.54	-1.29	0.13	1.04	-0.47	-0.47	0.60	0.62	1.01	0.80	-1.09	-0.16	1.14	-0.72	**6.35**
3684	2,4,3,6,9,11,17,21,27,26,31,34,36,39,41,40,42,46,48,52,53,54	0.89	1.44	0.67	1.15	-0.75	-0.73	0.80	-0.30	-0.34	0.60	0.30	0.05	0.32	-1.09	-0.16	1.14	-0.72	**3.26**
3685	2,4,3,6,9,11,17,21,27,26,31,34,36,39,41,40,42,47,50,54	0.00	1.70	-0.18	0.10	0.13	0.13	0.08	-0.30	0.36	0.83	-0.99	-0.90	-0.02	-1.09	-0.16	1.14	-0.72	**0.12**
3686	2,4,3,6,9,11,17,21,27,26,31,34,36,39,41,40,42,49,53,54	-0.04	1.44	-0.20	0.05	0.10	-0.73	-0.16	0.23	-0.22	0.71	-0.81	0.05	-0.05	-1.09	-0.16	1.14	-0.72	**-0.46**
3687	2,4,3,6,9,11,17,21,27,26,31,34,36,39,41,43,47,46,48,51	1.22	1.70	1.03	1.62	-1.24	0.13	1.04	-0.47	-0.47	0.64	0.62	1.01	0.81	-1.09	-0.16	1.14	-0.72	**6.78**
3688	2,4,3,6,9,11,17,21,27,26,31,34,36,39,41,43,47,46,48,52,53,54	0.89	1.70	0.67	1.23	-0.71	-0.73	0.80	-0.30	-0.34	0.64	0.30	0.05	0.32	-1.09	-0.16	1.14	-0.72	**3.69**
3689	2,4,3,6,9,11,17,21,27,26,31,34,36,39,41,43,47,49,53,54	-0.04	1.96	-0.20	0.13	0.14	-0.73	-0.16	0.23	-0.22	0.74	-0.80	0.05	-0.05	-1.09	-0.16	1.14	-0.72	**0.23**
3690	2,4,3,6,9,11,17,21,27,26,31,34,36,39,41,43,50,54	-0.14	1.44	-0.22	0.01	0.08	-0.73	0.08	-0.30	0.36	0.78	-1.04	-0.90	-0.09	-1.09	-0.16	1.14	-0.72	**-1.49**
3691	2,4,3,6,9,11,17,21,27,26,31,34,36,39,44,55	-1.07	0.14	0.13	-0.18	-0.03	-1.16	-1.11	-0.47	0.11	0.76	-1.19	-0.90	-0.15	-1.09	-0.16	1.14	-0.72	**-5.97**
3692	2,4,3,6,9,11,17,21,27,26,31,34,36,39,45,55	0.63	1.18	0.97	0.84	-0.52	0.98	0.08	0.10	1.43	1.57	-0.49	-0.90	0.72	-1.09	-0.16	1.14	-0.72	**5.77**
3693	2,4,3,6,9,11,17,21,27,26,31,34,38,40,42,46,48,51	-0.08	0.66	-0.10	1.25	0.05	0.55	0.32	-0.25	-0.11	-1.36	1.64	1.01	-0.23	-1.09	-0.16	1.14	1.40	**4.64**
3694	2,4,3,6,9,11,17,21,27,26,31,34,38,40,42,46,48,52,53,54	-0.40	0.66	-0.46	0.86	0.58	-0.30	0.08	-0.07	0.01	-1.36	1.33	0.05	-0.72	-1.09	-0.16	1.14	1.40	**1.56**
3695	2,4,3,6,9,11,17,21,27,26,31,34,38,40,42,47,50,54	-1.29	0.92	-1.31	-0.18	1.46	0.55	-0.64	-0.07	0.72	-1.13	0.04	-0.90	-1.05	-1.09	-0.16	1.14	1.40	**-1.58**
3696	2,4,3,6,9,11,17,21,27,26,31,34,38,40,42,49,53,54	-1.33	0.66	-1.33	-0.24	1.44	-0.30	-0.87	0.45	0.13	-1.26	0.22	0.05	-1.09	-1.09	-0.16	1.14	1.40	**-2.17**
3697	2,4,3,6,9,11,17,21,27,26,31,34,38,41,44,55	-0.82	-0.12	-0.58	-0.47	1.31	-0.73	-0.87	-0.25	0.46	-1.20	0.51	-0.90	-0.56	-1.09	-0.16	1.14	1.40	**-2.93**
3698	2,4,3,6,9,11,17,21,27,26,31,34,38,41,45,55	0.88	0.92	0.26	0.55	0.82	1.41	0.32	0.33	1.78	-0.39	1.22	-0.90	0.31	-1.09	-0.16	1.14	1.40	**8.81**
3699	2,4,3,6,9,11,17,21,27,26,31,34,38,43,47,46,48,51	-0.08	0.40	-0.10	1.33	0.09	0.55	0.32	-0.25	-0.11	-1.33	1.65	1.01	-0.23	-1.09	-0.16	1.14	1.40	**4.55**
3700	2,4,3,6,9,11,17,21,27,26,31,34,38,43,47,46,48,52,53,54	-0.40	0.40	-0.46	0.94	0.63	-0.30	0.08	-0.07	0.01	-1.33	1.33	0.05	-0.71	-1.09	-0.16	1.14	1.40	**1.47**
3701	2,4,3,6,9,11,17,21,27,26,31,34,38,43,47,49,53,54	-1.33	0.66	-1.33	-0.16	1.48	-0.30	-0.87	0.45	0.13	-1.22	0.23	0.05	-1.08	-1.09	-0.16	1.14	1.40	**-2.00**
3702	2,4,3,6,9,11,17,21,27,26,31,34,38,43,50,54	-1.43	0.14	-1.35	-0.28	1.41	-0.30	-0.64	-0.07	0.72	-1.18	-0.01	-0.90	-1.13	-1.09	-0.16	1.14	1.40	**-3.72**
3703	2,4,3,6,9,11,17,21,27,26,33,37,40,41,44,55	-0.80	-0.64	-0.57	-0.46	0.23	-0.30	-0.64	-0.62	-0.16	-1.20	0.54	-0.90	-0.52	-1.09	-0.16	1.14	-0.72	**-6.87**
3704	2,4,3,6,9,11,17,21,27,26,33,37,40,41,45,55	0.91	0.40	0.27	0.56	-0.26	1.84	0.56	-0.04	1.16	-0.39	1.24	-0.90	0.36	-1.09	-0.16	1.14	-0.72	**4.87**
3705	2,4,3,6,9,11,17,21,27,26,33,37,40,43,47,46,48,51	-0.05	0.40	-0.10	1.34	-0.98	0.98	0.56	-0.62	-0.74	-1.32	1.67	1.01	-0.18	-1.09	-0.16	1.14	-0.72	**1.13**
3706	2,4,3,6,9,11,17,21,27,26,33,37,40,43,47,46,48,52,53,54	-0.38	0.40	-0.45	0.95	-0.45	0.13	0.32	-0.44	-0.62	-1.32	1.35	0.05	-0.67	-1.09	-0.16	1.14	-0.72	**-1.96**
3707	2,4,3,6,9,11,17,21,27,26,33,37,40,43,47,49,53,54	-1.31	0.66	-1.32	-0.15	0.40	0.13	-0.64	0.08	-0.49	-1.22	0.25	0.05	-1.04	-1.09	-0.16	1.14	-0.72	**-5.42**
3708	2,4,3,6,9,11,17,21,27,26,33,37,40,43,50,54	-1.40	0.14	-1.34	-0.27	0.34	0.13	-0.40	-0.44	0.09	-1.17	0.00	-0.90	-1.08	-1.09	-0.16	1.14	-0.72	**-7.14**
3709	2,4,3,6,9,11,17,21,27,26,33,37,42,46,48,51	-0.18	-0.38	-0.13	1.26	-1.03	0.13	0.56	-0.62	-0.74	-1.35	1.63	1.01	-0.26	-1.09	-0.16	1.14	-0.72	**-0.94**
3710	2,4,3,6,9,11,17,21,27,26,33,37,42,46,48,52,53,54	-0.51	-0.38	-0.49	0.87	-0.49	-0.73	0.32	-0.44	-0.62	-1.35	1.31	0.05	-0.74	-1.09	-0.16	1.14	-0.72	**-4.03**
3711	2,4,3,6,9,11,17,21,27,26,33,37,42,47,50,54	-1.39	-0.12	-1.34	-0.18	0.39	0.13	-0.40	-0.44	0.09	-1.12	0.03	-0.90	-1.08	-1.09	-0.16	1.14	-0.72	**-7.17**
3712	2,4,3,6,9,11,17,21,27,26,33,37,42,49,53,54	-1.44	-0.38	-1.36	-0.23	0.36	-0.73	-0.64	0.08	-0.49	-1.25	0.21	0.05	-1.11	-1.09	-0.16	1.14	-0.72	**-7.75**
3713	2,4,3,6,9,11,17,21,28,31,30,32,46,47,50,54	1.02	1.18	0.28	-0.43	0.53	1.84	1.75	-1.03	1.39	-0.35	1.14	-0.90	0.94	-0.37	-0.16	-0.77	0.98	**7.04**
3714	2,4,3,6,9,11,17,21,28,31,30,32,46,49,53,54	0.98	0.92	0.26	-0.48	0.50	0.98	1.52	-0.51	0.81	-0.48	1.30	0.05	0.90	-0.37	-0.16	-0.77	0.98	**6.43**
3715	2,4,3,6,9,11,17,21,28,31,30,32,48,51	0.48	0.40	1.01	-1.07	-1.45	1.84	2.23	-1.21	0.56	-0.58	0.79	-0.90	1.41	-0.37	-0.16	-0.77	0.98	**3.18**
3716	2,4,3,6,9,11,17,21,28,31,30,32,48,52,53,54	0.15	0.40	0.65	-1.46	-0.91	0.98	1.99	-1.03	0.68	-0.58	0.47	-1.85	0.93	-0.37	-0.16	-0.77	0.98	**0.10**
3717	2,4,3,6,9,11,17,21,28,31,33,37,40,41,44,55	-0.87	-0.64	-0.64	-0.43	0.44	-0.30	-0.64	-0.62	-0.52	-0.95	0.28	-0.90	-0.61	-1.09	-0.16	-0.77	-0.72	**-9.15**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
3718	2,4,3,6,9,11,17,21,28,31,33,37,40,41,45,55	0.83	0.40	0.20	0.59	-0.05	1.84	0.56	-0.04	0.81	-0.14	0.99	-0.90	0.26	-1.09	-0.16	-0.77	-0.72	**2.59**
3719	2,4,3,6,9,11,17,21,28,31,33,37,40,43,47,46,48,51	-0.12	0.40	-0.17	1.36	-0.78	0.98	0.56	-0.62	-1.09	-1.08	1.41	1.01	-0.28	-1.09	-0.16	-0.77	-0.72	**-1.15**
3720	2,4,3,6,9,11,17,21,28,31,33,37,40,43,47,46,48,52,53,54	-0.45	0.40	-0.52	0.98	-0.24	0.13	0.32	-0.44	-0.97	-1.08	1.09	0.05	-0.76	-1.09	-0.16	-0.77	-0.72	**-4.24**
3721	2,4,3,6,9,11,17,21,28,31,33,37,40,43,47,49,53,54	-1.38	0.66	-1.39	-0.12	0.61	0.13	-0.64	0.08	-0.84	-0.97	-0.01	0.05	-1.13	-1.09	-0.16	-0.77	-0.72	**-7.70**
3722	2,4,3,6,9,11,17,21,28,31,33,37,40,43,50,54	-1.48	0.14	-1.41	-0.24	0.54	0.13	-0.40	-0.44	-0.26	-0.93	-0.25	-0.90	-1.18	-1.09	-0.16	-0.77	-0.72	**-9.42**
3723	2,4,3,6,9,11,17,21,28,31,33,37,42,46,48,51	-0.26	-0.38	-0.20	1.29	-0.82	0.13	0.56	-0.62	-1.09	-1.11	1.37	1.01	-0.35	-1.09	-0.16	-0.77	-0.72	**-3.22**
3724	2,4,3,6,9,11,17,21,28,31,33,37,42,46,48,52,53,54	-0.58	-0.38	-0.56	0.90	-0.29	-0.73	0.32	-0.44	-0.97	-1.11	1.05	0.05	-0.84	-1.09	-0.16	-0.77	-0.72	**-6.31**
3725	2,4,3,6,9,11,17,21,28,31,33,37,42,47,50,54	-1.47	-0.12	-1.41	-0.15	0.59	0.13	-0.40	-0.44	-0.26	-0.88	-0.23	-0.90	-1.17	-1.09	-0.16	-0.77	-0.72	**-9.45**
3726	2,4,3,6,9,11,17,21,28,31,33,37,42,49,53,54	-1.51	-0.38	-1.43	-0.20	0.57	-0.73	-0.64	0.08	-0.84	-1.01	-0.05	0.05	-1.21	-1.09	-0.16	-0.77	-0.72	**-10.04**
3727	2,4,3,6,9,11,17,21,28,34,35,37,40,41,44,55	-0.90	-0.64	-0.64	-0.41	0.80	-0.30	-0.87	-0.62	-0.22	-1.00	0.25	-0.90	-0.66	-1.09	-0.16	-0.77	-0.72	**-8.84**
3728	2,4,3,6,9,11,17,21,28,34,35,37,40,41,45,55	0.80	0.40	0.20	0.61	0.31	1.84	0.32	-0.04	1.11	-0.19	0.96	-0.90	0.22	-1.09	-0.16	-0.77	-0.72	**2.90**
3729	2,4,3,6,9,11,17,21,28,34,35,37,40,43,47,46,48,51	-0.15	0.40	-0.16	1.39	-0.42	0.98	0.32	-0.62	-0.79	-1.12	1.39	1.01	-0.32	-1.09	-0.16	-0.77	-0.72	**-0.84**
3730	2,4,3,6,9,11,17,21,28,34,35,37,40,43,47,46,48,52,53,54	-0.48	0.40	-0.52	1.00	0.12	0.13	0.08	-0.44	-0.67	-1.12	1.07	0.05	-0.81	-1.09	-0.16	-0.77	-0.72	**-3.93**
3731	2,4,3,6,9,11,17,21,28,34,35,37,40,43,47,49,53,54	-1.41	0.66	-1.38	-0.10	0.97	0.13	-0.87	0.08	-0.54	-1.02	-0.04	0.05	-1.18	-1.09	-0.16	-0.77	-0.72	**-7.40**
3732	2,4,3,6,9,11,17,21,28,34,35,37,40,43,50,54	-1.51	0.14	-1.40	-0.22	0.90	0.13	-0.64	-0.44	0.04	-0.97	-0.28	-0.90	-1.22	-1.09	-0.16	-0.77	-0.72	**-9.11**
3733	2,4,3,6,9,11,17,21,28,34,35,37,42,46,48,51	-0.28	-0.38	-0.20	1.31	-0.46	0.13	0.32	-0.62	-0.79	-1.15	1.35	1.01	-0.40	-1.09	-0.16	-0.77	-0.72	**-2.92**
3734	2,4,3,6,9,11,17,21,28,34,35,37,42,46,48,52,53,54	-0.61	-0.38	-0.55	0.92	0.07	-0.73	0.08	-0.44	-0.67	-1.15	1.03	0.05	-0.88	-1.09	-0.16	-0.77	-0.72	**-6.00**
3735	2,4,3,6,9,11,17,21,28,34,35,37,42,47,50,54	-1.50	-0.12	-1.40	-0.13	0.95	0.13	-0.64	-0.44	0.04	-0.92	-0.26	-0.90	-1.22	-1.09	-0.16	-0.77	-0.72	**-9.14**
3736	2,4,3,6,9,11,17,21,28,34,35,37,42,49,53,54	-1.54	-0.38	-1.42	-0.18	0.92	-0.73	-0.87	0.08	-0.54	-1.05	-0.07	0.05	-1.25	-1.09	-0.16	-0.77	-0.72	**-9.73**
3737	2,4,3,6,9,11,17,21,28,34,36,39,41,40,42,46,48,51	1.05	0.40	0.93	1.56	-1.08	0.13	1.04	-0.47	-0.82	0.82	0.28	1.01	0.65	-1.09	-0.16	-0.77	-0.72	**2.74**
3738	2,4,3,6,9,11,17,21,28,34,36,39,41,40,42,46,48,52,53,54	0.72	0.40	0.57	1.18	-0.55	-0.73	0.80	-0.30	-0.70	0.82	-0.04	0.05	0.16	-1.09	-0.16	-0.77	-0.72	**-0.35**
3739	2,4,3,6,9,11,17,21,28,34,36,39,41,40,42,47,50,54	-0.16	0.66	-0.28	0.13	0.33	0.13	0.08	-0.30	0.01	1.05	-1.32	-0.90	-0.17	-1.09	-0.16	-0.77	-0.72	**-3.49**
3740	2,4,3,6,9,11,17,21,28,34,36,39,41,40,42,49,53,54	-0.21	0.40	-0.29	0.08	0.31	-0.73	-0.16	0.23	-0.57	0.93	-1.14	0.05	-0.21	-1.09	-0.16	-0.77	-0.72	**-4.07**
3741	2,4,3,6,9,11,17,21,28,34,36,39,41,43,47,46,48,51	1.05	0.66	0.93	1.64	-1.04	0.13	1.04	-0.47	-0.82	0.85	0.29	1.01	0.65	-1.09	-0.16	-0.77	-0.72	**3.17**
3742	2,4,3,6,9,11,17,21,28,34,36,39,41,43,47,46,48,52,53,54	0.72	0.66	0.57	1.26	-0.50	-0.73	0.80	-0.30	-0.70	0.85	-0.03	0.05	0.17	-1.09	-0.16	-0.77	-0.72	**0.08**
3743	2,4,3,6,9,11,17,21,28,34,36,39,41,43,47,49,53,54	-0.20	0.92	-0.29	0.16	0.35	-0.73	-0.16	0.23	-0.57	0.96	-1.14	0.05	-0.21	-1.09	-0.16	-0.77	-0.72	**-3.38**
3744	2,4,3,6,9,11,17,21,28,34,36,39,41,43,50,54	-0.30	0.40	-0.31	0.04	0.28	-0.73	0.08	-0.30	0.01	1.00	-1.38	-0.90	-0.25	-1.09	-0.16	-0.77	-0.72	**-5.10**
3745	2,4,3,6,9,11,17,21,28,34,36,39,44,55	-1.24	-0.90	0.04	-0.15	0.18	-1.16	-1.11	-0.47	-0.25	0.98	-1.53	-0.90	-0.31	-1.09	-0.16	-0.77	-0.72	**-9.58**
3746	2,4,3,6,9,11,17,21,28,34,36,39,45,55	0.46	0.14	0.88	0.86	-0.31	0.98	0.08	0.10	1.08	1.79	-0.82	-0.90	0.56	-1.09	-0.16	-0.77	-0.72	**2.16**
3747	2,4,3,6,9,11,17,21,28,34,38,40,42,46,48,51	-0.25	-0.38	-0.20	1.28	0.25	0.55	0.32	-0.25	-0.47	-1.14	1.31	1.01	-0.39	-1.09	-0.16	-0.77	1.40	**1.04**
3748	2,4,3,6,9,11,17,21,28,34,38,40,42,46,48,52,53,54	-0.57	-0.38	-0.56	0.89	0.79	-0.30	0.08	-0.07	-0.34	-1.14	0.99	0.05	-0.87	-1.09	-0.16	-0.77	1.40	**-2.05**
3749	2,4,3,6,9,11,17,21,28,34,38,40,42,47,50,54	-1.46	-0.12	-1.40	-0.16	1.67	0.55	-0.64	-0.07	0.36	-0.91	-0.30	-0.90	-1.21	-1.09	-0.16	-0.77	1.40	**-5.19**
3750	2,4,3,6,9,11,17,21,28,34,38,40,42,49,53,54	-1.50	-0.38	-1.42	-0.21	1.64	-0.30	-0.87	0.45	-0.22	-1.04	-0.11	0.05	-1.24	-1.09	-0.16	-0.77	1.40	**-5.77**
3751	2,4,3,6,9,11,17,21,28,34,38,41,44,55	-0.99	-1.15	-0.67	-0.44	1.51	-0.73	-0.87	-0.25	0.11	-0.98	0.18	-0.90	-0.72	-1.09	-0.16	-0.77	1.40	**-6.54**
3752	2,4,3,6,9,11,17,21,28,34,38,41,45,55	0.71	-0.12	0.17	0.58	1.02	1.41	0.32	0.33	1.43	-0.17	0.88	-0.90	0.16	-1.09	-0.16	-0.77	1.40	**5.20**
3753	2,4,3,6,9,11,17,21,28,34,38,43,47,46,48,51	-0.24	-0.64	-0.20	1.36	0.30	0.55	0.32	-0.25	-0.47	-1.11	1.31	1.01	-0.38	-1.09	-0.16	-0.77	1.40	**0.95**
3754	2,4,3,6,9,11,17,21,28,34,38,43,47,46,48,52,53,54	-0.57	-0.64	-0.55	0.97	0.83	-0.30	0.08	-0.07	-0.34	-1.11	1.00	0.05	-0.87	-1.09	-0.16	-0.77	1.40	**-2.14**
3755	2,4,3,6,9,11,17,21,28,34,38,43,47,49,53,54	-1.50	-0.38	-1.42	-0.13	1.69	-0.30	-0.87	0.45	-0.22	-1.00	-0.11	0.05	-1.24	-1.09	-0.16	-0.77	1.40	**-5.60**
3756	2,4,3,6,9,11,17,21,28,34,38,43,50,54	-1.60	-0.90	-1.44	-0.25	1.62	-0.30	-0.64	-0.07	0.36	-0.96	-0.35	-0.90	-1.28	-1.09	-0.16	-0.77	1.40	**-7.32**
3757	2,4,7,11,13,12,14,30,31,34,35,37,40,41,44,55	0.60	-2.19	0.54	1.10	1.39	0.13	0.56	1.12	-0.57	0.42	0.50	-0.90	0.28	-0.73	-1.55	-0.77	-0.72	**-0.80**
3758	2,4,7,11,13,12,14,30,31,34,35,37,40,41,45,55	2.30	-1.15	1.38	2.12	0.90	2.27	1.75	1.70	0.76	1.23	1.21	-0.90	1.15	-0.73	-1.55	-0.77	-0.72	**10.94**
3759	2,4,7,11,13,12,14,30,31,34,35,37,40,43,47,46,48,51	1.35	-1.15	1.02	2.90	0.17	1.41	1.75	1.12	-1.14	0.29	1.63	1.01	0.61	-0.73	-1.55	-0.77	-0.72	**7.20**
3760	2,4,7,11,13,12,14,30,31,34,35,37,40,43,47,46,48,52,53,54	1.02	-1.15	0.66	2.51	0.71	0.55	1.52	1.30	-1.02	0.29	1.32	0.05	0.13	-0.73	-1.55	-0.77	-0.72	**4.12**
3761	2,4,7,11,13,12,14,30,31,34,35,37,40,43,47,49,53,54	0.09	-0.90	-0.21	1.41	1.56	0.55	0.56	1.82	-0.89	0.40	0.21	0.05	-0.24	-0.73	-1.55	-0.77	-0.72	**0.65**
3762	2,4,7,11,13,12,14,30,31,34,35,37,40,43,50,54	-0.01	-1.41	-0.23	1.29	1.49	0.55	0.80	1.30	-0.31	0.44	-0.03	-0.90	-0.29	-0.73	-1.55	-0.77	-0.72	**-1.07**
3763	2,4,7,11,13,12,14,30,31,34,35,37,42,46,48,51	1.22	-1.93	0.98	2.82	0.13	0.55	1.75	1.12	-1.14	0.26	1.60	1.01	0.54	-0.73	-1.55	-0.77	-0.72	**5.13**
3764	2,4,7,11,13,12,14,30,31,34,35,37,42,46,48,52,53,54	0.89	-1.93	0.62	2.43	0.66	-0.30	1.52	1.30	-1.02	0.26	1.28	0.05	0.06	-0.73	-1.55	-0.77	-0.72	**2.04**
3765	2,4,7,11,13,12,14,30,31,34,35,37,42,47,50,54	0.01	-1.67	-0.22	1.38	1.54	0.55	0.80	1.30	-0.31	0.49	-0.01	-0.90	-0.28	-0.73	-1.55	-0.77	-0.72	**-1.10**
3766	2,4,7,11,13,12,14,30,31,34,35,37,42,49,53,54	-0.04	-1.93	-0.24	1.33	1.52	-0.30	0.56	1.82	-0.89	0.36	0.18	0.05	-0.32	-0.73	-1.55	-0.77	-0.72	**-1.68**
3767	2,4,7,11,13,12,14,30,31,34,36,39,41,40,42,46,48,51	2.55	-1.15	2.11	3.07	-0.49	0.55	2.47	1.27	-1.17	2.23	0.53	1.01	1.58	-0.73	-1.55	-0.77	-0.72	**10.79**
3768	2,4,7,11,13,12,14,30,31,34,36,39,41,40,42,46,48,52,53,54	2.22	-1.15	1.75	2.69	0.05	-0.30	2.23	1.44	-1.05	2.23	0.21	0.05	1.10	-0.73	-1.55	-0.77	-0.72	**7.70**
3769	2,4,7,11,13,12,14,30,31,34,36,39,41,40,42,47,50,54	1.34	-0.90	0.90	1.64	0.93	0.55	1.52	1.44	-0.34	2.47	-1.07	-0.90	0.76	-0.73	-1.55	-0.77	-0.72	**4.56**
3770	2,4,7,11,13,12,14,30,31,34,36,39,41,40,42,49,53,54	1.29	-1.15	0.88	1.59	0.90	-0.30	1.28	1.97	-0.92	2.34	-0.89	0.05	0.73	-0.73	-1.55	-0.77	-0.72	**3.98**
3771	2,4,7,11,13,12,14,30,31,34,36,39,41,43,47,46,48,51	2.55	-0.90	2.11	3.15	-0.45	0.55	2.47	1.27	-1.17	2.27	0.54	1.01	1.59	-0.73	-1.55	-0.77	-0.72	**11.21**
3772	2,4,7,11,13,12,14,30,31,34,36,39,41,43,47,46,48,52,53,54	2.22	-0.90	1.75	2.77	0.09	-0.30	2.23	1.44	-1.05	2.27	0.22	0.05	1.10	-0.73	-1.55	-0.77	-0.72	**8.13**
3773	2,4,7,11,13,12,14,30,31,34,36,39,41,43,47,49,53,54	1.30	-0.64	0.89	1.67	0.94	-0.30	1.28	1.97	-0.92	2.37	-0.89	0.05	0.73	-0.73	-1.55	-0.77	-0.72	**4.66**
3774	2,4,7,11,13,12,14,30,31,34,36,39,41,43,50,54	1.20	-1.15	0.87	1.55	0.88	-0.30	1.52	1.44	-0.34	2.41	-1.13	-0.90	0.69	-0.73	-1.55	-0.77	-0.72	**2.94**
3775	2,4,7,11,13,12,14,30,31,34,36,39,44,55	0.26	-2.45	1.22	1.36	0.77	-0.73	0.32	1.27	-0.60	2.39	-1.28	-0.90	0.62	-0.73	-1.55	-0.77	-0.72	**-1.53**
3776	2,4,7,11,13,12,14,30,31,34,36,39,45,55	1.96	-1.41	2.06	2.38	0.28	1.41	1.52	1.84	0.73	3.20	-0.57	-0.90	1.50	-0.73	-1.55	-0.77	-0.72	**10.21**
3777	2,4,7,11,13,12,14,30,31,34,38,40,42,46,48,51	1.26	-1.93	0.98	2.79	0.84	0.98	1.75	1.49	-0.82	0.27	1.56	1.01	0.55	-0.73	-1.55	-0.77	1.40	**9.08**
3778	2,4,7,11,13,12,14,30,31,34,38,40,42,46,48,52,53,54	0.93	-1.93	0.62	2.40	1.38	0.13	1.52	1.67	-0.69	0.27	1.24	0.05	0.06	-0.73	-1.55	-0.77	1.40	**6.00**
3779	2,4,7,11,13,12,14,30,31,34,38,40,42,47,50,54	0.04	-1.67	-0.23	1.35	2.26	0.98	0.80	1.67	0.01	0.50	-0.05	-0.90	-0.27	-0.73	-1.55	-0.77	1.40	**2.86**
3780	2,4,7,11,13,12,14,30,31,34,38,40,42,49,53,54	0.00	-1.93	-0.24	1.30	2.23	0.13	0.56	2.19	-0.57	0.38	0.14	0.05	-0.31	-0.73	-1.55	-0.77	1.40	**2.27**

Westar Energy- JEC to East Manhattan
345/230 kV Transmission Line Project
Table F-2: Raw Scores for All Routes

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
3781	2,4,7,11,13,12,14,30,31,34,38,41,44,55	0.51	-2.71	0.51	1.07	2.11	-0.30	0.56	1.49	-0.24	0.43	0.43	-0.90	0.22	-0.73	-1.55	-0.77	1.40	**1.51**
3782	2,4,7,11,13,12,14,30,31,34,38,41,45,55	2.21	-1.67	1.35	2.09	1.61	1.84	1.75	2.07	1.08	1.24	1.13	-0.90	1.09	-0.73	-1.55	-0.77	1.40	**13.25**
3783	2,4,7,11,13,12,14,30,31,34,38,43,47,46,48,51	1.26	-2.19	0.98	2.87	0.89	0.98	1.75	1.49	-0.82	0.30	1.56	1.01	0.55	-0.73	-1.55	-0.77	1.40	**8.99**
3784	2,4,7,11,13,12,14,30,31,34,38,43,47,46,48,52,53,54	0.93	-2.19	0.62	2.48	1.43	0.13	1.52	1.67	-0.69	0.30	1.24	0.05	0.07	-0.73	-1.55	-0.77	1.40	**5.91**
3785	2,4,7,11,13,12,14,30,31,34,38,43,47,49,53,54	0.00	-1.93	-0.24	1.38	2.28	0.13	0.56	2.19	-0.57	0.41	0.14	0.05	-0.30	-0.73	-1.55	-0.77	1.40	**2.44**
3786	2,4,7,11,13,12,14,30,31,34,38,43,50,54	-0.10	-2.45	-0.26	1.26	2.21	0.13	0.80	1.67	0.01	0.45	-0.10	-0.90	-0.35	-0.73	-1.55	-0.77	1.40	**0.72**
3787	2,4,7,11,13,12,14,30,33,37,40,41,44,55	0.54	-2.71	0.51	1.08	1.03	0.13	0.80	1.12	-0.87	0.43	0.45	-0.90	0.26	-0.73	-1.55	-0.77	-0.72	**-1.91**
3788	2,4,7,11,13,12,14,30,33,37,40,41,45,55	2.24	-1.67	1.35	2.10	0.54	2.27	1.99	1.70	0.46	1.24	1.16	-0.90	1.13	-0.73	-1.55	-0.77	-0.72	**9.82**
3789	2,4,7,11,13,12,14,30,33,37,40,43,47,46,48,51	1.28	-1.67	0.99	2.88	-0.19	1.41	1.99	1.12	-1.44	0.31	1.58	1.01	0.59	-0.73	-1.55	-0.77	-0.72	**6.09**
3790	2,4,7,11,13,12,14,30,33,37,40,43,47,46,48,52,53,54	0.96	-1.67	0.63	2.49	0.35	0.55	1.75	1.30	-1.32	0.31	1.26	0.05	0.11	-0.73	-1.55	-0.77	-0.72	**3.00**
3791	2,4,7,11,13,12,14,30,33,37,40,43,47,49,53,54	0.03	-1.41	-0.24	1.39	1.20	0.55	0.80	1.82	-1.19	0.41	0.16	0.05	-0.26	-0.73	-1.55	-0.77	-0.72	**-0.47**
3792	2,4,7,11,13,12,14,30,33,37,40,43,50,54	-0.07	-1.93	-0.26	1.27	1.14	0.55	1.04	1.30	-0.61	0.46	-0.08	-0.90	-0.31	-0.73	-1.55	-0.77	-0.72	**-2.18**
3793	2,4,7,11,13,12,14,30,33,37,42,46,48,51	1.15	-2.45	0.95	2.80	-0.23	0.55	1.99	1.12	-1.44	0.28	1.54	1.01	0.52	-0.73	-1.55	-0.77	-0.72	**4.01**
3794	2,4,7,11,13,12,14,30,33,37,42,46,48,52,53,54	0.82	-2.45	0.59	2.41	0.31	-0.30	1.75	1.30	-1.32	0.28	1.22	0.05	0.04	-0.73	-1.55	-0.77	-0.72	**0.93**
3795	2,4,7,11,13,12,14,30,33,37,42,47,50,54	-0.06	-2.19	-0.26	1.36	1.19	0.55	1.04	1.30	-0.61	0.51	-0.06	-0.90	-0.30	-0.73	-1.55	-0.77	-0.72	**-2.21**
3796	2,4,7,11,13,12,14,30,33,37,42,49,53,54	-0.10	-2.45	-0.27	1.31	1.16	-0.30	0.80	1.82	-1.19	0.38	0.12	0.05	-0.34	-0.73	-1.55	-0.77	-0.72	**-2.80**
3797	2,4,7,11,13,12,14,32,46,47,50,54	1.56	-1.41	1.20	1.08	1.12	1.41	2.71	0.71	1.04	1.03	0.39	-0.90	1.22	-0.20	-1.55	-0.77	0.98	**9.61**
3798	2,4,7,11,13,12,14,32,46,49,53,54	1.51	-1.67	1.18	1.03	1.09	0.55	2.47	1.23	0.46	0.91	0.55	0.05	1.18	-0.20	-1.55	-0.77	0.98	**9.00**
3799	2,4,7,11,13,12,14,32,48,51	1.01	-2.19	1.93	0.44	-0.86	1.41	3.19	0.53	0.21	0.80	0.04	-0.90	1.69	-0.20	-1.55	-0.77	0.98	**5.75**
3800	2,4,7,11,13,12,14,32,48,52,53,54	0.69	-2.19	1.57	0.05	-0.32	0.55	2.95	0.71	0.33	0.80	-0.28	-1.85	1.20	-0.20	-1.55	-0.77	0.98	**2.67**
3801	2,4,7,11,13,15,23,26,30,32,46,47,50,54	0.94	0.92	0.38	-1.03	0.30	0.98	1.28	0.93	2.13	-0.17	0.63	-0.90	0.96	-0.43	-1.55	1.14	0.98	**7.49**
3802	2,4,7,11,13,15,23,26,30,32,46,49,53,54	0.90	0.66	0.36	-1.08	0.27	0.13	1.04	1.45	1.55	-0.29	0.80	0.05	0.93	-0.43	-1.55	1.14	0.98	**6.88**
3803	2,4,7,11,13,15,23,26,30,32,48,51	0.40	0.14	1.11	-1.67	-1.69	0.98	1.75	0.75	1.30	-0.40	0.29	-0.90	1.44	-0.43	-1.55	1.14	0.98	**3.63**
3804	2,4,7,11,13,15,23,26,30,32,48,52,53,54	0.07	0.14	0.75	-2.06	-1.15	0.13	1.52	0.93	1.42	-0.40	-0.03	-1.85	0.95	-0.43	-1.55	1.14	0.98	**0.55**
3805	2,4,7,11,13,15,23,26,31,34,35,37,40,41,44,55	-0.88	-0.38	-0.51	-1.01	0.56	-1.16	-1.35	1.35	0.52	-0.79	-0.17	-0.90	-0.57	-1.16	-1.55	1.14	-0.72	**-7.58**
3806	2,4,7,11,13,15,23,26,31,34,35,37,40,41,45,55	0.82	0.66	0.33	0.01	0.07	0.98	-0.16	1.92	1.85	0.02	0.54	-0.90	0.31	-1.16	-1.55	1.14	-0.72	**4.16**
3807	2,4,7,11,13,15,23,26,31,34,35,37,40,43,47,46,48,51	-0.14	0.66	-0.04	0.79	-0.66	0.13	-0.16	1.35	-0.05	-0.91	0.96	1.01	-0.23	-1.16	-1.55	1.14	-0.72	**0.42**
3808	2,4,7,11,13,15,23,26,31,34,35,37,40,43,47,46,48,52,53,54	-0.46	0.66	-0.40	0.40	-0.12	-0.73	-0.40	1.52	0.07	-0.91	0.64	0.05	-0.72	-1.16	-1.55	1.14	-0.72	**-2.67**
3809	2,4,7,11,13,15,23,26,31,34,35,37,40,43,47,49,53,54	-1.39	0.92	-1.26	-0.70	0.73	-0.73	-1.35	2.05	0.20	-0.80	-0.46	0.05	-1.09	-1.16	-1.55	1.14	-0.72	**-6.14**
3810	2,4,7,11,13,15,23,26,31,34,35,37,40,43,50,54	-1.49	0.40	-1.28	-0.82	0.67	-0.73	-1.11	1.52	0.78	-0.76	-0.70	-0.90	-1.13	-1.16	-1.55	1.14	-0.72	**-7.85**
3811	2,4,7,11,13,15,23,26,31,34,35,37,42,46,48,51	-0.27	-0.12	-0.08	0.71	-0.70	-0.73	-0.16	1.35	-0.05	-0.94	0.93	1.01	-0.31	-1.16	-1.55	1.14	-0.72	**-1.66**
3812	2,4,7,11,13,15,23,26,31,34,35,37,42,46,48,52,53,54	-0.60	-0.12	-0.43	0.32	-0.16	-1.59	-0.40	1.52	0.07	-0.94	0.61	0.05	-0.79	-1.16	-1.55	1.14	-0.72	**-4.74**
3813	2,4,7,11,13,15,23,26,31,34,35,37,42,47,50,54	-1.48	0.14	-1.28	-0.73	0.72	-0.73	-1.11	1.52	0.78	-0.71	-0.68	-0.90	-1.13	-1.16	-1.55	1.14	-0.72	**-7.88**
3814	2,4,7,11,13,15,23,26,31,34,35,37,42,49,53,54	-1.52	-0.12	-1.30	-0.78	0.69	-1.59	-1.35	2.05	0.20	-0.84	-0.50	0.05	-1.16	-1.16	-1.55	1.14	-0.72	**-8.47**
3815	2,4,7,11,13,15,23,26,31,34,36,39,41,40,42,46,48,51	1.06	0.66	1.05	0.96	-1.32	-0.73	0.56	1.49	-0.08	1.03	-0.14	1.01	0.74	-1.16	-1.55	1.14	-0.72	**4.00**
3816	2,4,7,11,13,15,23,26,31,34,36,39,41,40,42,46,48,52,53,54	0.74	0.66	0.70	0.58	-0.78	-1.59	0.32	1.67	0.04	1.03	-0.46	0.05	0.25	-1.16	-1.55	1.14	-0.72	**0.91**
3817	2,4,7,11,13,15,23,26,31,34,36,39,41,40,42,47,50,54	-0.15	0.92	-0.15	-0.47	0.10	-0.73	-0.40	1.67	0.75	1.26	-1.75	-0.90	-0.08	-1.16	-1.55	1.14	-0.72	**-2.23**
3818	2,4,7,11,13,15,23,26,31,34,36,39,41,40,42,49,53,54	-0.19	0.66	-0.17	-0.52	0.07	-1.59	-0.64	2.19	0.17	1.14	-1.56	0.05	-0.12	-1.16	-1.55	1.14	-0.72	**-2.81**
3819	2,4,7,11,13,15,23,26,31,34,36,39,41,43,47,46,48,51	1.06	0.92	1.05	1.04	-1.27	-0.73	0.56	1.49	-0.08	1.07	-0.14	1.01	0.74	-1.16	-1.55	1.14	-0.72	**4.43**
3820	2,4,7,11,13,15,23,26,31,34,36,39,41,43,47,46,48,52,53,54	0.74	0.92	0.70	0.66	-0.74	-1.59	0.32	1.67	0.04	1.07	-0.45	0.05	0.26	-1.16	-1.55	1.14	-0.72	**1.34**
3821	2,4,7,11,13,15,23,26,31,34,36,39,41,43,47,49,53,54	-0.19	1.18	-0.17	-0.44	0.11	-1.59	-0.64	2.19	0.17	1.17	-1.56	0.05	-0.12	-1.16	-1.55	1.14	-0.72	**-2.12**
3822	2,4,7,11,13,15,23,26,31,34,36,39,41,43,50,54	-0.29	0.66	-0.19	-0.56	0.05	-1.59	-0.40	1.67	0.75	1.21	-1.80	-0.90	-0.16	-1.16	-1.55	1.14	-0.72	**-3.84**
3823	2,4,7,11,13,15,23,26,31,34,36,39,44,55	-1.22	-0.64	0.16	-0.75	-0.06	-2.02	-1.59	1.49	0.49	1.19	-1.95	-0.90	-0.22	-1.16	-1.55	1.14	-0.72	**-8.32**
3824	2,4,7,11,13,15,23,26,31,34,36,39,45,55	0.48	0.40	1.00	0.26	-0.55	0.13	-0.40	2.07	1.82	2.00	-1.25	-0.90	0.65	-1.16	-1.55	1.14	-0.72	**3.42**
3825	2,4,7,11,13,15,23,26,31,34,38,40,42,46,48,51	-0.23	-0.12	-0.08	0.68	0.02	-0.30	-0.16	1.71	0.27	-0.93	0.89	1.01	-0.30	-1.16	-1.55	1.14	1.40	**2.30**
3826	2,4,7,11,13,15,23,26,31,34,38,40,42,46,48,52,53,54	-0.56	-0.12	-0.43	0.29	0.55	-1.16	-0.40	1.89	0.39	-0.93	0.57	0.05	-0.78	-1.16	-1.55	1.14	1.40	**-0.79**
3827	2,4,7,11,13,15,23,26,31,34,38,40,42,47,50,54	-1.44	0.14	-1.28	-0.76	1.43	-0.30	-1.11	1.89	1.10	-0.70	-0.72	-0.90	-1.12	-1.16	-1.55	1.14	1.40	**-3.93**
3828	2,4,7,11,13,15,23,26,31,34,38,40,42,49,53,54	-1.49	-0.12	-1.30	-0.81	1.41	-1.16	-1.35	2.41	0.52	-0.83	-0.54	0.05	-1.15	-1.16	-1.55	1.14	1.40	**-4.51**
3829	2,4,7,11,13,15,23,26,31,34,38,41,44,55	-0.97	-0.90	-0.55	-1.04	1.28	-1.59	-1.35	1.71	0.85	-0.77	-0.25	-0.90	-0.63	-1.16	-1.55	1.14	1.40	**-5.28**
3830	2,4,7,11,13,15,23,26,31,34,38,41,45,55	0.73	0.14	0.29	-0.02	0.79	0.55	-0.16	2.29	2.17	0.04	0.46	-0.90	0.25	-1.16	-1.55	1.14	1.40	**6.46**
3831	2,4,7,11,13,15,23,26,31,34,38,43,47,46,48,51	-0.23	-0.38	-0.08	0.76	0.06	-0.30	-0.16	1.71	0.27	-0.90	0.89	1.01	-0.29	-1.16	-1.55	1.14	1.40	**2.21**
3832	2,4,7,11,13,15,23,26,31,34,38,43,47,46,48,52,53,54	-0.56	-0.38	-0.43	0.37	0.60	-1.16	-0.40	1.89	0.39	-0.90	0.57	0.05	-0.78	-1.16	-1.55	1.14	1.40	**-0.88**
3833	2,4,7,11,13,15,23,26,31,34,38,43,47,49,53,54	-1.48	-0.12	-1.30	-0.73	1.45	-1.16	-1.35	2.41	0.52	-0.79	-0.53	0.05	-1.15	-1.16	-1.55	1.14	1.40	**-4.34**
3834	2,4,7,11,13,15,23,26,31,34,38,43,50,54	-1.58	-0.64	-1.32	-0.85	1.38	-1.16	-1.11	1.89	1.10	-0.75	-0.77	-0.90	-1.19	-1.16	-1.55	1.14	1.40	**-6.06**
3835	2,4,7,11,13,15,23,26,33,37,40,41,44,55	-0.95	-1.41	-0.55	-1.03	0.20	-1.16	-1.11	1.35	0.22	-0.77	-0.22	-0.90	-0.59	-1.16	-1.55	1.14	-0.72	**-9.22**
3836	2,4,7,11,13,15,23,26,33,37,40,41,45,55	0.75	-0.38	0.29	-0.01	-0.29	0.98	0.08	1.92	1.54	0.04	0.49	-0.90	0.29	-1.16	-1.55	1.14	-0.72	**2.52**
3837	2,4,7,11,13,15,23,26,33,37,40,43,47,46,48,51	-0.20	-0.38	-0.07	0.76	-1.01	0.13	0.08	1.35	-0.35	-0.89	0.91	1.01	-0.25	-1.16	-1.55	1.14	-0.72	**-1.22**
3838	2,4,7,11,13,15,23,26,33,37,40,43,47,46,48,52,53,54	-0.53	-0.38	-0.43	0.38	-0.48	-0.73	-0.16	1.52	-0.23	-0.89	0.59	0.05	-0.74	-1.16	-1.55	1.14	-0.72	**-4.30**
3839	2,4,7,11,13,15,23,26,33,37,40,43,47,49,53,54	-1.46	-0.12	-1.29	-0.72	0.37	-0.73	-1.11	2.05	-0.11	-0.79	-0.51	0.05	-1.11	-1.16	-1.55	1.14	-0.72	**-7.77**
3840	2,4,7,11,13,15,23,26,33,37,40,43,50,54	-1.56	-0.64	-1.31	-0.84	0.31	-0.73	-0.87	1.52	0.48	-0.74	-0.75	-0.90	-1.15	-1.16	-1.55	1.14	-0.72	**-9.49**
3841	2,4,7,11,13,15,23,26,33,37,42,46,48,51	-0.34	-1.15	-0.11	0.69	-1.06	-0.73	0.08	1.35	-0.35	-0.92	0.87	1.01	-0.33	-1.16	-1.55	1.14	-0.72	**-3.29**
3842	2,4,7,11,13,15,23,26,33,37,42,46,48,52,53,54	-0.66	-1.15	-0.46	0.30	-0.52	-1.59	-0.16	1.52	-0.23	-0.92	0.56	0.05	-0.81	-1.16	-1.55	1.14	-0.72	**-6.38**
3843	2,4,7,11,13,15,23,26,33,37,42,47,50,54	-1.55	-0.90	-1.31	-0.75	0.36	-0.73	-0.87	1.52	0.48	-0.69	-0.73	-0.90	-1.15	-1.16	-1.55	1.14	-0.72	**-9.52**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
3844	2,4,7,11,13,15,23,26,33,37,42,49,53,54	-1.59	-1.15	-1.33	-0.80	0.33	-1.59	-1.11	2.05	-0.11	-0.82	-0.55	0.05	-1.18	-1.16	-1.55	1.14	-0.72	**-10.10**
3845	2,4,7,11,13,15,23,27,28,31,30,32,46,47,50,54	0.98	0.92	0.34	-1.00	0.50	0.98	1.28	0.93	1.77	0.20	0.38	-0.90	0.93	-0.43	-1.55	-0.77	0.98	**5.53**
3846	2,4,7,11,13,15,23,27,28,31,30,32,46,49,53,54	0.93	0.66	0.32	-1.05	0.47	0.13	1.04	1.45	1.19	0.07	0.54	0.05	0.89	-0.43	-1.55	-0.77	0.98	**4.92**
3847	2,4,7,11,13,15,23,27,28,31,30,32,48,51	0.43	0.14	1.07	-1.65	-1.48	0.98	1.75	0.75	0.94	-0.03	0.03	-0.90	1.40	-0.43	-1.55	-0.77	0.98	**1.68**
3848	2,4,7,11,13,15,23,27,28,31,30,32,48,52,53,54	0.11	0.14	0.71	-2.03	-0.94	0.13	1.52	0.93	1.07	-0.03	-0.29	-1.85	0.92	-0.43	-1.55	-0.77	0.98	**-1.41**
3849	2,4,7,11,13,15,23,27,28,31,33,37,40,41,44,55	-0.91	-0.90	-0.59	-1.00	0.41	-1.16	-1.11	1.35	-0.13	-0.40	-0.48	-0.90	-0.62	-1.16	-1.55	-0.77	-0.72	**-10.66**
3850	2,4,7,11,13,15,23,27,28,31,33,37,40,41,45,55	0.79	0.14	0.25	0.01	-0.08	0.98	0.08	1.92	1.19	0.41	0.23	-0.90	0.25	-1.16	-1.55	-0.77	-0.72	**1.08**
3851	2,4,7,11,13,15,23,27,28,31,33,37,40,43,47,46,48,51	-0.17	0.14	-0.11	0.79	-0.81	0.13	0.08	1.35	-0.71	-0.52	0.65	1.01	-0.29	-1.16	-1.55	-0.77	-0.72	**-2.66**
3852	2,4,7,11,13,15,23,27,28,31,33,37,40,43,47,46,48,52,53,54	-0.49	0.14	-0.47	0.40	-0.27	-0.73	-0.16	1.52	-0.58	-0.52	0.33	0.05	-0.77	-1.16	-1.55	-0.77	-0.72	**-5.74**
3853	2,4,7,11,13,15,23,27,28,31,33,37,40,43,47,49,53,54	-1.42	0.40	-1.33	-0.69	0.58	-0.73	-1.11	2.05	-0.46	-0.42	-0.77	0.05	-1.14	-1.16	-1.55	-0.77	-0.72	**-9.21**
3854	2,4,7,11,13,15,23,27,28,31,33,37,40,43,50,54	-1.52	-0.12	-1.35	-0.81	0.51	-0.73	-0.87	1.52	0.12	-0.37	-1.01	-0.90	-1.19	-1.16	-1.55	-0.77	-0.72	**-10.93**
3855	2,4,7,11,13,15,23,27,28,31,33,37,42,46,48,51	-0.30	-0.64	-0.15	0.71	-0.85	-0.73	0.08	1.35	-0.71	-0.55	0.62	1.01	-0.36	-1.16	-1.55	-0.77	-0.72	**-4.73**
3856	2,4,7,11,13,15,23,27,28,31,33,37,42,46,48,52,53,54	-0.63	-0.64	-0.50	0.33	-0.32	-1.59	-0.16	1.52	-0.58	-0.55	0.30	0.05	-0.85	-1.16	-1.55	-0.77	-0.72	**-7.82**
3857	2,4,7,11,13,15,23,27,28,31,33,37,42,47,50,54	-1.51	-0.38	-1.35	-0.72	0.56	-0.73	-0.87	1.52	0.12	-0.32	-0.99	-0.90	-1.18	-1.16	-1.55	-0.77	-0.72	**-10.96**
3858	2,4,7,11,13,15,23,27,28,31,33,37,42,49,53,54	-1.55	-0.64	-1.37	-0.77	0.54	-1.59	-1.11	2.05	-0.46	-0.45	-0.81	0.05	-1.22	-1.16	-1.55	-0.77	-0.72	**-11.54**
3859	2,4,7,11,13,15,23,27,28,34,35,37,40,41,44,55	-0.94	-0.90	-0.58	-0.98	0.77	-1.16	-1.35	1.35	0.17	-0.44	-0.50	-0.90	-0.67	-1.16	-1.55	-0.77	-0.72	**-10.35**
3860	2,4,7,11,13,15,23,27,28,34,35,37,40,41,45,55	0.76	0.14	0.26	0.04	0.28	0.98	-0.16	1.92	1.49	0.37	0.20	-0.90	0.21	-1.16	-1.55	-0.77	-0.72	**1.39**
3861	2,4,7,11,13,15,23,27,28,34,35,37,40,43,47,46,48,51	-0.20	0.14	-0.11	0.81	-0.45	0.13	-0.16	1.35	-0.41	-0.56	0.63	1.01	-0.33	-1.16	-1.55	-0.77	-0.72	**-2.35**
3862	2,4,7,11,13,15,23,27,28,34,35,37,40,43,47,46,48,52,53,54	-0.52	0.14	-0.46	0.43	0.09	-0.73	-0.40	1.52	-0.28	-0.56	0.31	0.05	-0.82	-1.16	-1.55	-0.77	-0.72	**-5.44**
3863	2,4,7,11,13,15,23,27,28,34,35,37,40,43,47,49,53,54	-1.45	0.40	-1.33	-0.67	0.94	-0.73	-1.35	2.05	-0.16	-0.46	-0.80	0.05	-1.19	-1.16	-1.55	-0.77	-0.72	**-8.90**
3864	2,4,7,11,13,15,23,27,28,34,35,37,40,43,50,54	-1.55	-0.12	-1.35	-0.79	0.87	-0.73	-1.11	1.52	0.42	-0.42	-1.04	-0.90	-1.23	-1.16	-1.55	-0.77	-0.72	**-10.62**
3865	2,4,7,11,13,15,23,27,28,34,35,37,42,46,48,51	-0.33	-0.64	-0.14	0.73	-0.49	-0.73	-0.16	1.35	-0.41	-0.60	0.59	1.01	-0.40	-1.16	-1.55	-0.77	-0.72	**-4.42**
3866	2,4,7,11,13,15,23,27,28,34,35,37,42,46,48,52,53,54	-0.66	-0.64	-0.50	0.35	0.04	-1.59	-0.40	1.52	-0.28	-0.60	0.27	0.05	-0.89	-1.16	-1.55	-0.77	-0.72	**-7.51**
3867	2,4,7,11,13,15,23,27,28,34,35,37,42,47,50,54	-1.54	-0.38	-1.35	-0.70	0.92	-0.73	-1.11	1.52	0.42	-0.37	-1.02	-0.90	-1.23	-1.16	-1.55	-0.77	-0.72	**-10.65**
3868	2,4,7,11,13,15,23,27,28,34,35,37,42,49,53,54	-1.58	-0.64	-1.37	-0.75	0.89	-1.59	-1.35	2.05	-0.16	-0.49	-0.83	0.05	-1.26	-1.16	-1.55	-0.77	-0.72	**-11.23**
3869	2,4,7,11,13,15,23,27,28,34,36,39,41,40,42,46,48,51	1.00	0.14	0.99	0.99	-1.11	-0.73	0.56	1.49	-0.44	1.38	-0.48	1.01	0.64	-1.16	-1.55	-0.77	-0.72	**1.23**
3870	2,4,7,11,13,15,23,27,28,34,36,39,41,40,42,46,48,52,53,54	0.68	0.14	0.63	0.60	-0.58	-1.59	0.32	1.67	-0.31	1.38	-0.80	0.05	0.15	-1.16	-1.55	-0.77	-0.72	**-1.85**
3871	2,4,7,11,13,15,23,27,28,34,36,39,41,40,42,47,50,54	-0.21	0.40	-0.22	-0.45	0.30	-0.73	-0.40	1.67	0.39	1.61	-2.08	-0.90	-0.18	-1.16	-1.55	-0.77	-0.72	**-4.99**
3872	2,4,7,11,13,15,23,27,28,34,36,39,41,40,42,49,53,54	-0.25	0.14	-0.24	-0.50	0.28	-1.59	-0.64	2.19	-0.19	1.48	-1.90	0.05	-0.22	-1.16	-1.55	-0.77	-0.72	**-5.58**
3873	2,4,7,11,13,15,23,27,28,34,36,39,41,43,47,46,48,51	1.01	0.40	0.99	1.07	-1.07	-0.73	0.56	1.49	-0.44	1.41	-0.47	1.01	0.64	-1.16	-1.55	-0.77	-0.72	**1.66**
3874	2,4,7,11,13,15,23,27,28,34,36,39,41,43,47,46,48,52,53,54	0.68	0.40	0.63	0.68	-0.53	-1.59	0.32	1.67	-0.31	1.41	-0.79	0.05	0.16	-1.16	-1.55	-0.77	-0.72	**-1.42**
3875	2,4,7,11,13,15,23,27,28,34,36,39,41,43,47,49,53,54	-0.25	0.66	-0.24	-0.42	0.32	-1.59	-0.64	2.19	-0.19	1.51	-1.89	0.05	-0.21	-1.16	-1.55	-0.77	-0.72	**-4.89**
3876	2,4,7,11,13,15,23,27,28,34,36,39,41,43,50,54	-0.35	0.14	-0.26	-0.54	0.25	-1.59	-0.40	1.67	0.39	1.56	-2.14	-0.90	-0.26	-1.16	-1.55	-0.77	-0.72	**-6.61**
3877	2,4,7,11,13,15,23,27,28,34,36,39,44,55	-1.28	-1.15	0.09	-0.73	0.15	-2.02	-1.59	1.49	0.14	1.53	-2.29	-0.90	-0.32	-1.16	-1.55	-0.77	-0.72	**-11.08**
3878	2,4,7,11,13,15,23,27,28,34,36,39,45,55	0.42	-0.12	0.93	0.29	-0.34	0.13	-0.40	2.07	1.46	2.34	-1.58	-0.90	0.56	-1.16	-1.55	-0.77	-0.72	**0.65**
3879	2,4,7,11,13,15,23,27,28,34,38,40,42,46,48,51	-0.29	-0.64	-0.14	0.70	0.22	-0.30	-0.16	1.71	-0.08	-0.58	0.55	1.01	-0.40	-1.16	-1.55	-0.77	1.40	**-0.47**
3880	2,4,7,11,13,15,23,27,28,34,38,40,42,46,48,52,53,54	-0.62	-0.64	-0.50	0.32	0.76	-1.16	-0.40	1.89	0.04	-0.58	0.23	0.05	-0.88	-1.16	-1.55	-0.77	1.40	**-3.55**
3881	2,4,7,11,13,15,23,27,28,34,38,40,42,47,50,54	-1.50	-0.38	-1.35	-0.73	1.64	-0.30	-1.11	1.89	0.75	-0.35	-1.05	-0.90	-1.22	-1.16	-1.55	-0.77	1.40	**-6.69**
3882	2,4,7,11,13,15,23,27,28,34,38,40,42,49,53,54	-1.54	-0.64	-1.37	-0.78	1.61	-1.16	-1.35	2.41	0.17	-0.48	-0.87	0.05	-1.25	-1.16	-1.55	-0.77	1.40	**-7.28**
3883	2,4,7,11,13,15,23,27,28,34,38,41,44,55	-1.03	-1.41	-0.62	-1.01	1.48	-1.59	-1.35	1.71	0.49	-0.43	-0.58	-0.90	-0.73	-1.16	-1.55	-0.77	1.40	**-8.04**
3884	2,4,7,11,13,15,23,27,28,34,38,41,45,55	0.67	-0.38	0.22	0.01	0.99	0.55	-0.16	2.29	1.82	0.38	0.13	-0.90	0.15	-1.16	-1.55	-0.77	1.40	**3.69**
3885	2,4,7,11,13,15,23,27,28,34,38,43,47,46,48,51	-0.29	-0.90	-0.14	0.78	0.27	-0.30	-0.16	1.71	-0.08	-0.55	0.56	1.01	-0.39	-1.16	-1.55	-0.77	1.40	**-0.56**
3886	2,4,7,11,13,15,23,27,28,34,38,43,47,46,48,52,53,54	-0.61	-0.90	-0.50	0.40	0.80	-1.16	-0.40	1.89	0.04	-0.55	0.24	0.05	-0.88	-1.16	-1.55	-0.77	1.40	**-3.64**
3887	2,4,7,11,13,15,23,27,28,34,38,43,47,49,53,54	-1.54	-0.64	-1.37	-0.70	1.66	-1.16	-1.35	2.41	0.17	-0.45	-0.87	0.05	-1.25	-1.16	-1.55	-0.77	1.40	**-7.11**
3888	2,4,7,11,13,15,23,27,28,34,38,43,50,54	-1.64	-1.15	-1.38	-0.82	1.59	-1.16	-1.11	1.89	0.75	-0.40	-1.11	-0.90	-1.29	-1.16	-1.55	-0.77	1.40	**-8.83**
3889	2,4,7,11,13,16,18,19,22,24,29,36,35,37,40,41,44,55	0.70	0.14	0.59	-0.74	-0.05	-0.30	-0.16	0.23	0.18	-0.56	0.45	-0.90	1.04	1.64	-1.55	-0.77	-0.72	**-0.80**
3890	2,4,7,11,13,16,18,19,22,24,29,36,35,37,40,41,45,55	2.40	1.18	1.43	0.27	-0.55	1.84	1.04	0.80	1.50	0.25	1.16	-0.90	1.91	1.64	-1.55	-0.77	-0.72	**10.94**
3891	2,4,7,11,13,16,18,19,22,24,29,36,35,37,40,43,47,46,48,51	1.45	1.18	1.06	1.05	-1.27	0.98	1.04	0.23	-0.39	-0.69	1.58	1.01	1.37	1.64	-1.55	-0.77	-0.72	**7.20**
3892	2,4,7,11,13,16,18,19,22,24,29,36,35,37,40,43,47,46,48,52,53,54	1.12	1.18	0.71	0.67	-0.73	0.13	0.80	0.41	-0.27	-0.69	1.26	0.05	0.89	1.64	-1.55	-0.77	-0.72	**4.11**
3893	2,4,7,11,13,16,18,19,22,24,29,36,35,37,40,43,47,49,53,54	0.19	1.44	-0.16	-0.43	0.12	0.13	-0.16	0.93	-0.15	-0.58	0.16	0.05	0.52	1.64	-1.55	-0.77	-0.72	**0.64**
3894	2,4,7,11,13,16,18,19,22,24,29,36,35,37,40,43,50,54	0.09	0.92	-0.18	-0.55	0.05	0.13	0.08	0.41	0.43	-0.54	-0.08	-0.90	0.47	1.64	-1.55	-0.77	-0.72	**-1.07**
3895	2,4,7,11,13,16,18,19,22,24,29,36,35,37,42,46,48,51	1.31	0.40	1.02	0.97	-1.32	0.13	1.04	0.23	-0.39	-0.72	1.54	1.01	1.30	1.64	-1.55	-0.77	-0.72	**5.12**
3896	2,4,7,11,13,16,18,19,22,24,29,36,35,37,42,46,48,52,53,54	0.99	0.40	0.67	0.59	-0.78	-0.73	0.80	0.41	-0.27	-0.72	1.23	0.05	0.81	1.64	-1.55	-0.77	-0.72	**2.04**
3897	2,4,7,11,13,16,18,19,22,24,29,36,35,37,42,47,50,54	0.10	0.66	-0.18	-0.46	0.10	0.13	0.08	0.41	0.43	-0.49	-0.06	-0.90	0.48	1.64	-1.55	-0.77	-0.72	**-1.10**
3898	2,4,7,11,13,16,18,19,22,24,29,36,35,37,42,49,53,54	0.06	0.40	-0.20	-0.51	0.07	-0.73	-0.16	0.93	-0.15	-0.62	0.12	0.05	0.44	1.64	-1.55	-0.77	-0.72	**-1.69**
3899	2,4,7,11,13,16,18,19,22,24,29,36,38,40,42,46,48,51	1.35	0.66	1.02	0.94	-0.60	0.55	1.04	0.60	-0.07	-0.71	1.50	1.01	1.31	1.64	-1.55	-0.77	1.40	**9.34**
3900	2,4,7,11,13,16,18,19,22,24,29,36,38,40,42,46,48,52,53,54	1.03	0.66	0.67	0.56	-0.06	-0.30	0.80	0.77	0.05	-0.71	1.19	0.05	0.82	1.64	-1.55	-0.77	1.40	**6.25**
3901	2,4,7,11,13,16,18,19,22,24,29,36,38,40,42,47,50,54	0.14	0.92	-0.18	-0.49	0.82	0.55	0.08	0.77	0.76	-0.48	-0.10	-0.90	0.49	1.64	-1.55	-0.77	1.40	**3.11**
3902	2,4,7,11,13,16,18,19,22,24,29,36,38,40,42,49,53,54	0.10	0.66	-0.20	-0.54	0.79	-0.30	-0.16	1.29	0.18	-0.60	0.08	0.05	0.45	1.64	-1.55	-0.77	1.40	**2.53**
3903	2,4,7,11,13,16,18,19,22,24,29,36,38,41,44,55	0.61	-0.12	0.55	-0.77	0.66	-0.73	-0.16	0.60	0.50	-0.55	0.37	-0.90	0.98	1.64	-1.55	-0.77	1.40	**1.76**
3904	2,4,7,11,13,16,18,19,22,24,29,36,38,41,45,55	2.31	0.92	1.39	0.24	0.17	1.41	1.04	1.17	1.83	0.26	1.08	-0.90	1.85	1.64	-1.55	-0.77	1.40	**13.50**
3905	2,4,7,11,13,16,18,19,22,24,29,36,38,43,47,46,48,51	1.35	0.40	1.03	1.02	-0.55	0.55	1.04	0.60	-0.07	-0.67	1.51	1.01	1.31	1.64	-1.55	-0.77	1.40	**9.25**
3906	2,4,7,11,13,16,18,19,22,24,29,36,38,43,47,46,48,52,53,54	1.03	0.40	0.67	0.64	-0.02	-0.30	0.80	0.77	0.05	-0.67	1.19	0.05	0.83	1.64	-1.55	-0.77	1.40	**6.16**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
3907	2,4,7,11,13,16,18,19,22,24,29,36,38,43,47,49,53,54	0.10	0.66	-0.20	-0.46	0.83	-0.30	-0.16	1.29	0.18	-0.57	0.09	0.05	0.45	1.64	-1.55	-0.77	1.40	**2.69**
3908	2,4,7,11,13,16,18,19,22,24,29,36,38,43,50,54	0.00	0.14	-0.22	-0.58	0.77	-0.30	0.08	0.77	0.76	-0.53	-0.16	-0.90	0.41	1.64	-1.55	-0.77	1.40	**0.98**
3909	2,4,7,11,13,16,18,19,22,24,29,39,41,40,42,46,48,51	1.55	0.40	1.86	0.60	-1.93	-0.73	1.75	0.37	-0.42	0.61	0.24	1.01	1.79	1.64	-1.55	-0.77	-0.72	**5.69**
3910	2,4,7,11,13,16,18,19,22,24,29,39,41,40,42,46,48,52,53,54	1.23	0.40	1.50	0.21	-1.40	-1.59	1.52	0.55	-0.30	0.61	-0.08	0.05	1.30	1.64	-1.55	-0.77	-0.72	**2.60**
3911	2,4,7,11,13,16,18,19,22,24,29,39,41,40,42,47,50,54	0.34	0.66	0.65	-0.84	-0.52	-0.73	0.80	0.55	0.40	0.85	-1.37	-0.90	0.96	1.64	-1.55	-0.77	-0.72	**-0.54**
3912	2,4,7,11,13,16,18,19,22,24,29,39,41,40,42,49,53,54	0.30	0.40	0.63	-0.89	-0.54	-1.59	0.56	1.07	-0.18	0.72	-1.19	0.05	0.93	1.64	-1.55	-0.77	-0.72	**-1.12**
3913	2,4,7,11,13,16,18,19,22,24,29,39,41,43,47,46,48,51	1.56	0.66	1.86	0.68	-1.89	-0.73	1.75	0.37	-0.42	0.65	0.24	1.01	1.79	1.64	-1.55	-0.77	-0.72	**6.12**
3914	2,4,7,11,13,16,18,19,22,24,29,39,41,43,47,46,48,52,53,54	1.23	0.66	1.50	0.29	-1.35	-1.59	1.52	0.55	-0.30	0.65	-0.08	0.05	1.30	1.64	-1.55	-0.77	-0.72	**3.03**
3915	2,4,7,11,13,16,18,19,22,24,29,39,41,43,47,49,53,54	0.30	0.92	0.63	-0.81	-0.50	-1.59	0.56	1.07	-0.18	0.75	-1.18	0.05	0.93	1.64	-1.55	-0.77	-0.72	**-0.44**
3916	2,4,7,11,13,16,18,19,22,24,29,39,41,43,50,54	0.20	0.40	0.61	-0.93	-0.57	-1.59	0.80	0.55	0.40	0.79	-1.42	-0.90	0.89	1.64	-1.55	-0.77	-0.72	**-2.15**
3917	2,4,7,11,13,16,18,19,22,24,29,39,44,55	-0.73	-0.90	0.96	-1.12	-0.67	-2.02	-0.40	0.37	0.15	0.77	-1.58	-0.90	0.83	1.64	-1.55	-0.77	-0.72	**-6.63**
3918	2,4,7,11,13,16,18,19,22,24,29,39,45,55	0.97	0.14	1.80	-0.10	-1.16	0.13	0.80	0.95	1.47	1.58	-0.87	-0.90	1.70	1.64	-1.55	-0.77	-0.72	**5.11**
3919	2,4,7,11,13,16,18,19,22,25,29,36,35,37,40,41,44,55	0.49	-0.12	0.53	-1.18	0.28	-0.30	0.08	0.25	-0.26	-0.49	0.08	-0.90	0.98	1.68	-1.55	-0.77	-0.72	**-1.93**
3920	2,4,7,11,13,16,18,19,22,25,29,36,35,37,40,41,45,55	2.19	0.92	1.37	-0.16	-0.21	1.84	1.28	0.83	1.07	0.32	0.79	-0.90	1.85	1.68	-1.55	-0.77	-0.72	**9.80**
3921	2,4,7,11,13,16,18,19,22,25,29,36,35,37,40,43,47,46,48,51	1.23	0.92	1.00	0.62	-0.94	0.98	1.28	0.25	-0.83	-0.62	1.22	1.01	1.31	1.68	-1.55	-0.77	-0.72	**6.06**
3922	2,4,7,11,13,16,18,19,22,25,29,36,35,37,40,43,47,46,48,52,53,54	0.90	0.92	0.65	0.23	-0.40	0.13	1.04	0.43	-0.71	-0.62	0.90	0.05	0.83	1.68	-1.55	-0.77	-0.72	**2.98**
3923	2,4,7,11,13,16,18,19,22,25,29,36,35,37,40,43,47,49,53,54	-0.02	1.18	-0.22	-0.87	0.45	0.13	0.08	0.95	-0.59	-0.51	-0.21	0.05	0.46	1.68	-1.55	-0.77	-0.72	**-0.49**
3924	2,4,7,11,13,16,18,19,22,25,29,36,35,37,40,43,50,54	-0.12	0.66	-0.24	-0.99	0.38	0.13	0.32	0.43	0.00	-0.47	-0.45	-0.90	0.41	1.68	-1.55	-0.77	-0.72	**-2.21**
3925	2,4,7,11,13,16,18,19,22,25,29,36,35,37,42,46,48,51	1.10	0.14	0.97	0.54	-0.98	0.13	1.28	0.25	-0.83	-0.65	1.18	1.01	1.24	1.68	-1.55	-0.77	-0.72	**3.99**
3926	2,4,7,11,13,16,18,19,22,25,29,36,35,37,42,46,48,52,53,54	0.77	0.14	0.61	0.15	-0.45	-0.73	1.04	0.43	-0.71	-0.65	0.86	0.05	0.76	1.68	-1.55	-0.77	-0.72	**0.91**
3927	2,4,7,11,13,16,18,19,22,25,29,36,35,37,42,47,50,54	-0.11	0.40	-0.24	-0.89	0.43	0.13	0.32	0.43	0.00	-0.42	-0.43	-0.90	0.42	1.68	-1.55	-0.77	-0.72	**-2.23**
3928	2,4,7,11,13,16,18,19,22,25,29,36,35,37,42,49,53,54	-0.16	0.14	-0.26	-0.95	0.41	-0.73	0.08	0.95	-0.59	-0.55	-0.24	0.05	0.38	1.68	-1.55	-0.77	-0.72	**-2.82**
3929	2,4,7,11,13,16,18,19,22,25,29,36,38,40,42,46,48,51	1.14	0.40	0.97	0.51	-0.27	0.55	1.28	0.62	-0.51	-0.64	1.14	1.01	1.25	1.68	-1.55	-0.77	1.40	**8.20**
3930	2,4,7,11,13,16,18,19,22,25,29,36,38,40,42,46,48,52,53,54	0.81	0.40	0.61	0.12	0.27	-0.30	1.04	0.80	-0.39	-0.64	0.82	0.05	0.76	1.68	-1.55	-0.77	1.40	**5.12**
3931	2,4,7,11,13,16,18,19,22,25,29,36,38,40,42,47,50,54	-0.07	0.66	-0.24	-0.93	1.15	0.55	0.32	0.80	0.32	-0.41	-0.47	-0.90	0.43	1.68	-1.55	-0.77	1.40	**1.98**
3932	2,4,7,11,13,16,18,19,22,25,29,36,38,40,42,49,53,54	-0.12	0.40	-0.26	-0.98	1.12	-0.30	0.08	1.32	-0.26	-0.53	-0.28	0.05	0.39	1.68	-1.55	-0.77	1.40	**1.39**
3933	2,4,7,11,13,16,18,19,22,25,29,36,38,41,44,55	0.40	-0.38	0.49	-1.21	1.00	-0.73	0.08	0.62	0.06	-0.48	0.01	-0.90	0.92	1.68	-1.55	-0.77	1.40	**0.63**
3934	2,4,7,11,13,16,18,19,22,25,29,36,38,41,45,55	2.10	0.66	1.33	-0.19	0.50	1.41	1.28	1.19	1.39	0.33	0.71	-0.90	1.79	1.68	-1.55	-0.77	1.40	**12.37**
3935	2,4,7,11,13,16,18,19,22,25,29,36,38,43,47,46,48,51	1.14	0.14	0.97	0.59	-0.22	0.55	1.28	0.62	-0.51	-0.60	1.14	1.01	1.25	1.68	-1.55	-0.77	1.40	**8.11**
3936	2,4,7,11,13,16,18,19,22,25,29,36,38,43,47,46,48,52,53,54	0.81	0.14	0.61	0.20	0.32	-0.30	1.04	0.80	-0.39	-0.60	0.82	0.05	0.77	1.68	-1.55	-0.77	1.40	**5.03**
3937	2,4,7,11,13,16,18,19,22,25,29,36,38,43,47,49,53,54	-0.11	0.40	-0.26	-0.90	1.17	-0.30	0.08	1.32	-0.26	-0.50	-0.28	0.05	0.40	1.68	-1.55	-0.77	1.40	**1.56**
3938	2,4,7,11,13,16,18,19,22,25,29,36,38,43,50,54	-0.21	-0.12	-0.28	-1.02	1.10	-0.30	0.32	0.80	0.32	-0.46	-0.52	-0.90	0.35	1.68	-1.55	-0.77	1.40	**-0.16**
3939	2,4,7,11,13,16,18,19,22,25,29,39,41,40,42,46,48,51	1.34	0.14	1.80	0.17	-1.60	-0.73	1.99	0.39	-0.86	0.68	-0.13	1.01	1.73	1.68	-1.55	-0.77	-0.72	**4.56**
3940	2,4,7,11,13,16,18,19,22,25,29,39,41,40,42,46,48,52,53,54	1.01	0.14	1.44	-0.22	-1.06	-1.59	1.75	0.57	-0.74	0.68	-0.45	0.05	1.24	1.68	-1.55	-0.77	-0.72	**1.47**
3941	2,4,7,11,13,16,18,19,22,25,29,39,41,40,42,47,50,54	0.13	0.40	0.59	-1.27	-0.18	-0.73	1.04	0.57	-0.03	0.92	-1.74	-0.90	0.91	1.68	-1.55	-0.77	-0.72	**-1.67**
3942	2,4,7,11,13,16,18,19,22,25,29,39,41,40,42,49,53,54	0.08	0.14	0.57	-1.32	-0.21	-1.59	0.80	1.09	-0.62	0.79	-1.55	0.05	0.87	1.68	-1.55	-0.77	-0.72	**-2.25**
3943	2,4,7,11,13,16,18,19,22,25,29,39,41,43,47,46,48,51	1.34	0.40	1.80	0.25	-1.56	-0.73	1.99	0.39	-0.86	0.72	-0.12	1.01	1.73	1.68	-1.55	-0.77	-0.72	**4.98**
3944	2,4,7,11,13,16,18,19,22,25,29,39,41,43,47,46,48,52,53,54	1.01	0.40	1.44	-0.14	-1.02	-1.59	1.75	0.57	-0.74	0.72	-0.44	0.05	1.25	1.68	-1.55	-0.77	-0.72	**1.90**
3945	2,4,7,11,13,16,18,19,22,25,29,39,41,43,47,49,53,54	0.09	0.66	0.58	-1.24	-0.17	-1.59	0.80	1.09	-0.62	0.82	-1.55	0.05	0.88	1.68	-1.55	-0.77	-0.72	**-1.57**
3946	2,4,7,11,13,16,18,19,22,25,29,39,41,43,50,54	-0.01	0.14	0.56	-1.36	-0.23	-1.59	1.04	0.57	-0.03	0.86	-1.79	-0.90	0.83	1.68	-1.55	-0.77	-0.72	**-3.29**
3947	2,4,7,11,13,16,18,19,22,25,29,39,44,55	-0.95	-1.15	0.91	-1.55	-0.34	-2.02	-0.16	0.39	-0.29	0.84	-1.94	-0.90	0.77	1.68	-1.55	-0.77	-0.72	**-7.76**
3948	2,4,7,11,13,16,18,19,22,25,29,39,45,55	0.75	-0.12	1.75	-0.53	-0.83	0.13	1.04	0.97	1.03	1.65	-1.24	-0.90	1.64	1.68	-1.55	-0.77	-0.72	**3.98**
3949	2,4,7,11,13,16,18,21,27,26,30,32,46,47,50,54	1.02	1.70	0.35	-0.52	0.60	1.84	1.75	0.17	1.82	-0.61	1.28	-0.90	1.02	0.39	-1.55	1.14	0.98	**10.48**
3950	2,4,7,11,13,16,18,21,27,26,30,32,46,49,53,54	0.98	1.44	0.33	-0.57	0.58	0.98	1.52	0.69	1.24	-0.74	1.44	0.05	0.98	0.39	-1.55	1.14	0.98	**9.87**
3951	2,4,7,11,13,16,18,21,27,26,30,32,48,51	0.48	0.92	1.07	-1.16	-1.38	1.84	2.23	-0.01	0.99	-0.84	0.93	-0.90	1.49	0.39	-1.55	1.14	0.98	**6.63**
3952	2,4,7,11,13,16,18,21,27,26,30,32,48,52,53,54	0.15	0.92	0.72	-1.55	-0.84	0.98	1.99	0.17	1.12	-0.84	0.61	-1.85	1.00	0.39	-1.55	1.14	0.98	**3.54**
3953	2,4,7,11,13,16,18,21,27,26,31,34,35,37,40,41,44,55	-0.80	0.40	-0.55	-0.50	0.87	-0.30	-0.87	0.59	0.22	-1.23	0.47	-0.90	-0.52	-0.33	-1.55	1.14	-0.72	**-4.59**
3954	2,4,7,11,13,16,18,21,27,26,31,34,35,37,40,41,45,55	0.90	1.44	0.29	0.52	0.38	1.84	0.32	1.16	1.54	-0.42	1.18	-0.90	0.36	-0.33	-1.55	1.14	-0.72	**7.15**
3955	2,4,7,11,13,16,18,21,27,26,31,34,35,37,40,43,47,46,48,51	-0.05	1.44	-0.07	1.29	-0.35	0.98	0.32	0.59	-0.36	-1.35	1.61	1.01	-0.18	-0.33	-1.55	1.14	-0.72	**3.41**
3956	2,4,7,11,13,16,18,21,27,26,31,34,35,37,40,43,47,46,48,52,53,54	-0.38	1.44	-0.43	0.91	0.19	0.13	0.08	0.76	-0.23	-1.35	1.29	0.05	-0.66	-0.33	-1.55	1.14	-0.72	**0.32**
3957	2,4,7,11,13,16,18,21,27,26,31,34,35,37,40,43,47,49,53,54	-1.31	1.70	-1.30	-0.19	1.04	0.13	-0.87	1.28	-0.11	-1.25	0.18	0.05	-1.04	-0.33	-1.55	1.14	-0.72	**-3.14**
3958	2,4,7,11,13,16,18,21,27,26,31,34,35,37,40,43,50,54	-1.41	1.18	-1.31	-0.31	0.98	0.13	-0.64	0.76	0.47	-1.20	-0.06	-0.90	-1.08	-0.33	-1.55	1.14	-0.72	**-4.86**
3959	2,4,7,11,13,16,18,21,27,26,31,34,35,37,42,46,48,51	-0.19	0.66	-0.11	1.22	-0.39	0.13	0.32	0.59	-0.36	-1.39	1.57	1.01	-0.25	-0.33	-1.55	1.14	-0.72	**1.33**
3960	2,4,7,11,13,16,18,21,27,26,31,34,35,37,42,46,48,52,53,54	-0.51	0.66	-0.46	0.83	0.15	-0.73	0.08	0.76	-0.23	-1.39	1.25	0.05	-0.74	-0.33	-1.55	1.14	-0.72	**-1.75**
3961	2,4,7,11,13,16,18,21,27,26,31,34,35,37,42,47,50,54	-1.40	0.92	-1.31	-0.22	1.03	0.13	-0.64	0.76	0.47	-1.15	-0.04	-0.90	-1.07	-0.33	-1.55	1.14	-0.72	**-4.89**
3962	2,4,7,11,13,16,18,21,27,26,31,34,35,37,42,49,53,54	-1.44	0.66	-1.33	-0.27	1.00	-0.73	-0.87	1.28	-0.11	-1.28	0.15	0.05	-1.11	-0.33	-1.55	1.14	-0.72	**-5.48**
3963	2,4,7,11,13,16,18,21,27,26,31,34,36,39,41,40,42,46,48,51	1.15	1.44	1.02	1.47	-1.01	0.13	1.04	0.73	-0.39	0.59	0.50	1.01	0.79	-0.33	-1.55	1.14	-0.72	**6.99**
3964	2,4,7,11,13,16,18,21,27,26,31,34,36,39,41,40,42,46,48,52,53,54	0.82	1.44	0.66	1.08	-0.47	-0.73	0.80	0.91	-0.26	0.59	0.18	0.05	0.30	-0.33	-1.55	1.14	-0.72	**3.91**
3965	2,4,7,11,13,16,18,21,27,26,31,34,36,39,41,40,42,47,50,54	-0.06	1.70	-0.19	0.04	0.41	0.13	0.08	0.91	0.44	0.82	-1.10	-0.90	-0.03	-0.33	-1.55	1.14	-0.72	**0.77**
3966	2,4,7,11,13,16,18,21,27,26,31,34,36,39,41,40,42,49,53,54	-0.11	1.44	-0.20	-0.02	0.38	-0.73	-0.16	1.43	-0.14	0.69	-0.92	0.05	-0.07	-0.33	-1.55	1.14	-0.72	**0.18**
3967	2,4,7,11,13,16,18,21,27,26,31,34,36,39,41,43,47,46,48,51	1.15	1.70	1.02	1.55	-0.96	0.13	1.04	0.73	-0.39	0.62	0.51	1.01	0.79	-0.33	-1.55	1.14	-0.72	**7.42**
3968	2,4,7,11,13,16,18,21,27,26,31,34,36,39,41,43,47,46,48,52,53,54	0.82	1.70	0.66	1.16	-0.43	-0.73	0.80	0.91	-0.26	0.62	0.19	0.05	0.31	-0.33	-1.55	1.14	-0.72	**4.33**
3969	2,4,7,11,13,16,18,21,27,26,31,34,36,39,41,43,47,49,53,54	-0.11	1.96	-0.20	0.06	0.42	-0.73	-0.16	1.43	-0.14	0.73	-0.92	0.05	-0.06	-0.33	-1.55	1.14	-0.72	**0.87**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
3970	2,4,7,11,13,16,18,21,27,26,31,34,36,39,41,43,50,54	-0.21	1.44	-0.22	-0.05	0.36	-0.73	0.08	0.91	0.44	0.77	-1.16	-0.90	-0.11	-0.33	-1.55	1.14	-0.72	**-0.85**
3971	2,4,7,11,13,16,18,21,27,26,31,34,36,39,44,55	-1.14	0.14	0.13	-0.25	0.25	-1.16	-1.11	0.73	0.19	0.74	-1.31	-0.90	-0.17	-0.33	-1.55	1.14	-0.72	**-5.33**
3972	2,4,7,11,13,16,18,21,27,26,31,34,36,39,45,55	0.56	1.18	0.97	0.77	-0.24	0.98	0.08	1.31	1.51	1.55	-0.60	-0.90	0.71	-0.33	-1.55	1.14	-0.72	**6.41**
3973	2,4,7,11,13,16,18,21,27,26,31,34,38,40,42,46,48,51	-0.15	0.66	-0.11	1.18	0.33	0.55	0.32	0.95	-0.03	-1.37	1.53	1.01	-0.25	-0.33	-1.55	1.14	1.40	**5.29**
3974	2,4,7,11,13,16,18,21,27,26,31,34,38,40,42,46,48,52,53,54	-0.47	0.66	-0.47	0.80	0.86	-0.30	0.08	1.13	0.09	-1.37	1.21	0.05	-0.73	-0.33	-1.55	1.14	1.40	**2.20**
3975	2,4,7,11,13,16,18,21,27,26,31,34,38,40,42,47,50,54	-1.36	0.92	-1.31	-0.25	1.74	0.55	-0.64	1.13	0.79	-1.14	-0.08	-0.90	-1.07	-0.33	-1.55	1.14	1.40	**-0.94**
3976	2,4,7,11,13,16,18,21,27,26,31,34,38,40,42,49,53,54	-1.40	0.66	-1.33	-0.30	1.72	-0.30	-0.87	1.65	0.21	-1.27	0.11	0.05	-1.10	-0.33	-1.55	1.14	1.40	**-1.52**
3977	2,4,7,11,13,16,18,21,27,26,31,34,38,41,44,55	-0.89	-0.12	-0.58	-0.53	1.59	-0.73	-0.87	0.95	0.54	-1.22	0.40	-0.90	-0.58	-0.33	-1.55	1.14	1.40	**-2.29**
3978	2,4,7,11,13,16,18,21,27,26,31,34,38,41,45,55	0.81	0.92	0.26	0.49	1.10	1.41	0.32	1.53	1.86	-0.41	1.10	-0.90	0.30	-0.33	-1.55	1.14	1.40	**9.45**
3979	2,4,7,11,13,16,18,21,27,26,31,34,38,43,47,46,48,51	-0.15	0.40	-0.11	1.26	0.37	0.55	0.32	0.95	-0.03	-1.34	1.54	1.01	-0.24	-0.33	-1.55	1.14	1.40	**5.20**
3980	2,4,7,11,13,16,18,21,27,26,31,34,38,43,47,46,48,52,53,54	-0.47	0.40	-0.46	0.88	0.91	-0.30	0.08	1.13	0.09	-1.34	1.22	0.05	-0.73	-0.33	-1.55	1.14	1.40	**2.11**
3981	2,4,7,11,13,16,18,21,27,26,31,34,38,43,47,49,53,54	-1.40	0.66	-1.33	-0.22	1.76	-0.30	-0.87	1.65	0.21	-1.24	0.11	0.05	-1.10	-0.33	-1.55	1.14	1.40	**-1.35**
3982	2,4,7,11,13,16,18,21,27,26,31,34,38,43,50,54	-1.50	0.14	-1.35	-0.34	1.69	-0.30	-0.64	1.13	0.79	-1.19	-0.13	-0.90	-1.14	-0.33	-1.55	1.14	1.40	**-3.07**
3983	2,4,7,11,13,16,18,21,27,26,33,37,40,41,44,55	-0.86	-0.64	-0.58	-0.52	0.51	-0.30	-0.64	0.59	-0.09	-1.21	0.42	-0.90	-0.54	-0.33	-1.55	1.14	-0.72	**-6.22**
3984	2,4,7,11,13,16,18,21,27,26,33,37,40,41,45,55	0.84	0.40	0.26	0.50	0.02	1.84	0.56	1.16	1.24	-0.40	1.13	-0.90	0.34	-0.33	-1.55	1.14	-0.72	**5.51**
3985	2,4,7,11,13,16,18,21,27,26,33,37,40,43,47,46,48,51	-0.12	0.40	-0.10	1.27	-0.70	0.98	0.56	0.59	-0.66	-1.33	1.55	1.01	-0.20	-0.33	-1.55	1.14	-0.72	**1.77**
3986	2,4,7,11,13,16,18,21,27,26,33,37,40,43,47,46,48,52,53,54	-0.45	0.40	-0.46	0.89	-0.17	0.13	0.32	0.76	-0.54	-1.33	1.23	0.05	-0.68	-0.33	-1.55	1.14	-0.72	**-1.31**
3987	2,4,7,11,13,16,18,21,27,26,33,37,40,43,47,49,53,54	-1.37	0.66	-1.33	-0.21	0.68	0.13	-0.64	1.28	-0.41	-1.23	0.13	0.05	-1.06	-0.33	-1.55	1.14	-0.72	**-4.78**
3988	2,4,7,11,13,16,18,21,27,26,33,37,40,43,50,54	-1.47	0.14	-1.35	-0.33	0.62	0.13	-0.40	0.76	0.17	-1.19	-0.11	-0.90	-1.10	-0.33	-1.55	1.14	-0.72	**-6.50**
3989	2,4,7,11,13,16,18,21,27,26,33,37,42,46,48,51	-0.25	-0.38	-0.14	1.19	-0.75	0.13	0.56	0.59	-0.66	-1.37	1.52	1.01	-0.27	-0.33	-1.55	1.14	-0.72	**-0.30**
3990	2,4,7,11,13,16,18,21,27,26,33,37,42,46,48,52,53,54	-0.58	-0.38	-0.50	0.81	-0.21	-0.73	0.32	0.76	-0.54	-1.37	1.20	0.05	-0.76	-0.33	-1.55	1.14	-0.72	**-3.38**
3991	2,4,7,11,13,16,18,21,27,26,33,37,42,47,50,54	-1.46	-0.12	-1.34	-0.24	0.67	0.13	-0.40	0.76	0.17	-1.14	-0.09	-0.90	-1.09	-0.33	-1.55	1.14	-0.72	**-6.52**
3992	2,4,7,11,13,16,18,21,27,26,33,37,42,49,53,54	-1.51	-0.38	-1.36	-0.29	0.64	-0.73	-0.64	1.28	-0.41	-1.26	0.09	0.05	-1.13	-0.33	-1.55	1.14	-0.72	**-7.11**
3993	2,4,7,11,13,16,18,21,28,31,30,32,46,47,50,54	0.95	1.18	0.28	-0.49	0.81	1.84	1.75	0.17	1.47	-0.37	1.02	-0.90	0.92	0.39	-1.55	-0.77	0.98	**7.68**
3994	2,4,7,11,13,16,18,21,28,31,30,32,46,49,53,54	0.91	0.92	0.26	-0.54	0.78	0.98	1.52	0.69	0.89	-0.49	1.18	0.05	0.89	0.39	-1.55	-0.77	0.98	**7.07**
3995	2,4,7,11,13,16,18,21,28,31,30,32,48,51	0.41	0.40	1.00	-1.14	-1.17	1.84	2.23	-0.01	0.64	-0.60	0.67	-0.90	1.40	0.39	-1.55	-0.77	0.98	**3.83**
3996	2,4,7,11,13,16,18,21,28,31,30,32,48,52,53,54	0.08	0.40	0.65	-1.52	-0.63	0.98	1.99	0.17	0.76	-0.60	0.36	-1.85	0.91	0.39	-1.55	-0.77	0.98	**0.74**
3997	2,4,7,11,13,16,18,21,28,31,33,37,40,41,44,55	-0.94	-0.64	-0.65	-0.50	0.72	-0.30	-0.64	0.59	-0.44	-0.97	0.16	-0.90	-0.63	-0.33	-1.55	-0.77	-0.72	**-8.51**
3998	2,4,7,11,13,16,18,21,28,31,33,37,40,41,45,55	0.76	0.40	0.19	0.52	0.23	1.84	0.56	1.16	0.88	-0.16	0.87	-0.90	0.25	-0.33	-1.55	-0.77	-0.72	**3.23**
3999	2,4,7,11,13,16,18,21,28,31,33,37,40,43,47,46,48,51	-0.19	0.40	-0.17	1.30	-0.50	0.98	0.56	0.59	-1.01	-1.09	1.30	1.01	-0.29	-0.33	-1.55	-0.77	-0.72	**-0.51**
4000	2,4,7,11,13,16,18,21,28,31,33,37,40,43,47,46,48,52,53,54	-0.52	0.40	-0.53	0.91	0.04	0.13	0.32	0.76	-0.89	-1.09	0.98	0.05	-0.78	-0.33	-1.55	-0.77	-0.72	**-3.59**
4001	2,4,7,11,13,16,18,21,28,31,33,37,40,43,47,49,53,54	-1.45	0.66	-1.40	-0.19	0.89	0.13	-0.64	1.28	-0.77	-0.99	-0.13	0.05	-1.15	-0.33	-1.55	-0.77	-0.72	**-7.06**
4002	2,4,7,11,13,16,18,21,28,31,33,37,40,43,50,54	-1.55	0.14	-1.42	-0.30	0.82	0.13	-0.40	0.76	-0.18	-0.94	-0.37	-0.90	-1.19	-0.33	-1.55	-0.77	-0.72	**-8.78**
4003	2,4,7,11,13,16,18,21,28,31,33,37,42,46,48,51	-0.33	-0.38	-0.21	1.22	-0.54	0.13	0.56	0.59	-1.01	-1.12	1.26	1.01	-0.37	-0.33	-1.55	-0.77	-0.72	**-2.58**
4004	2,4,7,11,13,16,18,21,28,31,33,37,42,46,48,52,53,54	-0.65	-0.38	-0.57	0.83	-0.01	-0.73	0.32	0.76	-0.89	-1.12	0.94	0.05	-0.85	-0.33	-1.55	-0.77	-0.72	**-5.67**
4005	2,4,7,11,13,16,18,21,28,31,33,37,42,47,50,54	-1.54	-0.12	-1.41	-0.21	0.87	0.13	-0.40	0.76	-0.18	-0.89	-0.35	-0.90	-1.19	-0.33	-1.55	-0.77	-0.72	**-8.81**
4006	2,4,7,11,13,16,18,21,28,31,33,37,42,49,53,54	-1.58	-0.38	-1.43	-0.27	0.85	-0.73	-0.64	1.28	-0.77	-1.02	-0.16	0.05	-1.22	-0.33	-1.55	-0.77	-0.72	**-9.39**
4007	2,4,7,11,13,16,18,21,28,34,35,37,40,41,44,55	-0.97	-0.64	-0.64	-0.47	1.08	-0.30	-0.87	0.59	-0.14	-1.01	0.14	-0.90	-0.67	-0.33	-1.55	-0.77	-0.72	**-8.20**
4008	2,4,7,11,13,16,18,21,28,34,35,37,40,41,45,55	0.74	0.40	0.20	0.54	0.58	1.84	0.32	1.16	1.19	-0.20	0.85	-0.90	0.20	-0.33	-1.55	-0.77	-0.72	**3.54**
4009	2,4,7,11,13,16,18,21,28,34,35,37,40,43,47,46,48,51	-0.22	0.40	-0.17	1.32	-0.14	0.98	0.32	0.59	-0.71	-1.13	1.27	1.01	-0.34	-0.33	-1.55	-0.77	-0.72	**-0.20**
4010	2,4,7,11,13,16,18,21,28,34,35,37,40,43,47,46,48,52,53,54	-0.55	0.40	-0.52	0.94	0.40	0.13	0.08	0.76	-0.59	-1.13	0.95	0.05	-0.82	-0.33	-1.55	-0.77	-0.72	**-3.29**
4011	2,4,7,11,13,16,18,21,28,34,35,37,40,43,47,49,53,54	-1.48	0.66	-1.39	-0.16	1.25	0.13	-0.87	1.28	-0.46	-1.03	-0.15	0.05	-1.19	-0.33	-1.55	-0.77	-0.72	**-6.75**
4012	2,4,7,11,13,16,18,21,28,34,35,37,40,43,50,54	-1.57	0.14	-1.41	-0.28	1.18	0.13	-0.64	0.76	0.12	-0.99	-0.39	-0.90	-1.24	-0.33	-1.55	-0.77	-0.72	**-8.47**
4013	2,4,7,11,13,16,18,21,28,34,35,37,42,46,48,51	-0.35	-0.38	-0.20	1.24	-0.19	0.13	0.32	0.59	-0.71	-1.17	1.23	1.01	-0.41	-0.33	-1.55	-0.77	-0.72	**-2.27**
4014	2,4,7,11,13,16,18,21,28,34,35,37,42,46,48,52,53,54	-0.68	-0.38	-0.56	0.86	0.35	-0.73	0.08	0.76	-0.59	-1.17	0.91	0.05	-0.90	-0.33	-1.55	-0.77	-0.72	**-5.36**
4015	2,4,7,11,13,16,18,21,28,34,35,37,42,47,50,54	-1.56	-0.12	-1.41	-0.19	1.23	0.13	-0.64	0.76	0.12	-0.93	-0.37	-0.90	-1.23	-0.33	-1.55	-0.77	-0.72	**-8.50**
4016	2,4,7,11,13,16,18,21,28,34,35,37,42,49,53,54	-1.61	-0.38	-1.43	-0.24	1.20	-0.73	-0.87	1.28	-0.46	-1.06	-0.19	0.05	-1.27	-0.33	-1.55	-0.77	-0.72	**-9.08**
4017	2,4,7,11,13,16,18,21,28,34,36,39,41,40,42,46,48,51	0.98	0.40	0.92	1.50	-0.80	0.13	1.04	0.73	-0.74	0.81	0.17	1.01	0.63	-0.33	-1.55	-0.77	-0.72	**3.38**
4018	2,4,7,11,13,16,18,21,28,34,36,39,41,40,42,46,48,52,53,54	0.65	0.40	0.57	1.11	-0.27	-0.73	0.80	0.91	-0.62	0.81	-0.15	0.05	0.15	-0.33	-1.55	-0.77	-0.72	**0.30**
4019	2,4,7,11,13,16,18,21,28,34,36,39,41,40,42,47,50,54	-0.23	0.66	-0.28	0.06	0.61	0.13	0.08	0.91	0.09	1.04	-1.44	-0.90	-0.19	-0.33	-1.55	-0.77	-0.72	**-2.84**
4020	2,4,7,11,13,16,18,21,28,34,36,39,41,40,42,49,53,54	-0.27	0.40	-0.30	0.01	0.59	-0.73	-0.16	1.43	-0.49	0.91	-1.26	0.05	-0.22	-0.33	-1.55	-0.77	-0.72	**-3.43**
4021	2,4,7,11,13,16,18,21,28,34,36,39,41,43,47,46,48,51	0.98	0.66	0.93	1.58	-0.76	0.13	1.04	0.73	-0.74	0.84	0.17	1.01	0.64	-0.33	-1.55	-0.77	-0.72	**3.81**
4022	2,4,7,11,13,16,18,21,28,34,36,39,41,43,47,46,48,52,53,54	0.66	0.66	0.57	1.19	-0.22	-0.73	0.80	0.91	-0.62	0.84	-0.15	0.05	0.15	-0.33	-1.55	-0.77	-0.72	**0.73**
4023	2,4,7,11,13,16,18,21,28,34,36,39,41,43,47,49,53,54	-0.27	0.92	-0.30	0.09	0.63	-0.73	-0.16	1.43	-0.49	0.94	-1.25	0.05	-0.22	-0.33	-1.55	-0.77	-0.72	**-2.74**
4024	2,4,7,11,13,16,18,21,28,34,36,39,41,43,50,54	-0.37	0.40	-0.32	-0.03	0.56	-0.73	0.08	0.91	0.09	0.99	-1.49	-0.90	-0.26	-0.33	-1.55	-0.77	-0.72	**-4.46**
4025	2,4,7,11,13,16,18,21,28,34,36,39,44,55	-1.31	-0.90	0.03	-0.22	0.46	-1.16	-1.11	0.73	-0.17	0.96	-1.65	-0.90	-0.33	-0.33	-1.55	-0.77	-0.72	**-8.93**
4026	2,4,7,11,13,16,18,21,28,34,36,39,45,55	0.39	0.14	0.87	0.80	-0.03	0.98	0.08	1.31	1.16	1.77	-0.94	-0.90	0.55	-0.33	-1.55	-0.77	-0.72	**2.80**
4027	2,4,7,11,13,16,18,21,28,34,38,40,42,46,48,51	-0.31	-0.38	-0.21	1.21	0.53	0.55	0.32	0.95	-0.39	-1.15	1.19	1.01	-0.40	-0.33	-1.55	-0.77	1.40	**1.68**
4028	2,4,7,11,13,16,18,21,28,34,38,40,42,46,48,52,53,54	-0.64	-0.38	-0.56	0.83	1.07	-0.30	0.08	1.13	-0.27	-1.15	0.87	0.05	-0.89	-0.33	-1.55	-0.77	1.40	**-1.40**
4029	2,4,7,11,13,16,18,21,28,34,38,40,42,47,50,54	-1.52	-0.12	-1.41	-0.22	1.95	0.55	-0.64	1.13	0.44	-0.92	-0.41	-0.90	-1.22	-0.33	-1.55	-0.77	1.40	**-4.54**
4030	2,4,7,11,13,16,18,21,28,34,38,40,42,49,53,54	-1.57	-0.38	-1.43	-0.27	1.92	-0.30	-0.87	1.65	-0.14	-1.05	-0.23	0.05	-1.26	-0.33	-1.55	-0.77	1.40	**-5.13**
4031	2,4,7,11,13,16,18,21,28,34,38,41,44,55	-1.06	-1.15	-0.68	-0.51	1.79	-0.73	-0.87	0.95	0.19	-1.00	0.06	-0.90	-0.74	-0.33	-1.55	-0.77	1.40	**-5.89**
4032	2,4,7,11,13,16,18,21,28,34,38,41,45,55	0.64	-0.12	0.16	0.51	1.30	1.41	0.32	1.53	1.51	-0.19	0.77	-0.90	0.14	-0.33	-1.55	-0.77	1.40	**5.84**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
4033	2,4,7,11,13,16,18,21,28,34,38,43,47,46,48,51	-0.31	-0.64	-0.20	1.29	0.58	0.55	0.32	0.95	-0.39	-1.12	1.20	1.01	-0.40	-0.33	-1.55	-0.77	1.40	**1.59**
4034	2,4,7,11,13,16,18,21,28,34,38,43,47,46,48,52,53,54	-0.64	-0.64	-0.56	0.90	1.11	-0.30	0.08	1.13	-0.27	-1.12	0.88	0.05	-0.88	-0.33	-1.55	-0.77	1.40	**-1.50**
4035	2,4,7,11,13,16,18,21,28,34,38,43,47,49,53,54	-1.57	-0.38	-1.43	-0.20	1.96	-0.30	-0.87	1.65	-0.14	-1.02	-0.22	0.05	-1.26	-0.33	-1.55	-0.77	1.40	**-4.96**
4036	2,4,7,11,13,16,18,21,28,34,38,43,50,54	-1.67	-0.90	-1.45	-0.31	1.90	-0.30	-0.64	1.13	0.44	-0.97	-0.47	-0.90	-1.30	-0.33	-1.55	-0.77	1.40	**-6.68**
4037	2,4,7,11,13,16,20,23,26,30,32,46,47,50,54	0.94	0.66	0.18	-0.27	0.57	0.98	1.28	0.86	2.36	-0.17	0.83	-0.90	0.69	0.29	-1.55	1.14	0.98	**8.87**
4038	2,4,7,11,13,16,20,23,26,30,32,46,49,53,54	0.89	0.40	0.16	-0.32	0.54	0.13	1.04	1.38	1.78	-0.30	0.99	0.05	0.65	0.29	-1.55	1.14	0.98	**8.26**
4039	2,4,7,11,13,16,20,23,26,30,32,48,51	0.39	-0.12	0.91	-0.92	-1.41	0.98	1.75	0.68	1.53	-0.40	0.49	-0.90	1.16	0.29	-1.55	1.14	0.98	**5.01**
4040	2,4,7,11,13,16,20,23,26,30,32,48,52,53,54	0.07	-0.12	0.55	-1.30	-0.87	0.13	1.52	0.86	1.65	-0.40	0.17	-1.85	0.68	0.29	-1.55	1.14	0.98	**1.93**
4041	2,4,7,11,13,16,20,23,26,31,34,35,37,40,41,44,55	-0.89	-0.64	-0.71	-0.25	0.84	-1.16	-1.35	1.28	0.75	-0.79	0.03	-0.90	-0.84	-0.43	-1.55	1.14	-0.72	**-6.20**
4042	2,4,7,11,13,16,20,23,26,31,34,35,37,40,41,45,55	0.81	0.40	0.13	0.76	0.34	0.98	-0.16	1.85	2.08	0.02	0.74	-0.90	0.03	-0.43	-1.55	1.14	-0.72	**5.53**
4043	2,4,7,11,13,16,20,23,26,31,34,35,37,40,43,47,46,48,51	-0.14	0.40	-0.24	1.54	-0.38	0.13	-0.16	1.28	0.18	-0.91	1.16	1.01	-0.51	-0.43	-1.55	1.14	-0.72	**1.79**
4044	2,4,7,11,13,16,20,23,26,31,34,35,37,40,43,47,46,48,52,53,54	-0.47	0.40	-0.59	1.16	0.16	-0.73	-0.40	1.45	0.30	-0.91	0.84	0.05	-0.99	-0.43	-1.55	1.14	-0.72	**-1.29**
4045	2,4,7,11,13,16,20,23,26,31,34,35,37,40,43,47,49,53,54	-1.40	0.66	-1.46	0.06	1.01	-0.73	-1.35	1.97	0.43	-0.80	-0.26	0.05	-1.36	-0.43	-1.55	1.14	-0.72	**-4.76**
4046	2,4,7,11,13,16,20,23,26,31,34,35,37,40,43,50,54	-1.50	0.14	-1.48	-0.06	0.94	-0.73	-1.11	1.45	1.01	-0.76	-0.50	-0.90	-1.41	-0.43	-1.55	1.14	-0.72	**-6.48**
4047	2,4,7,11,13,16,20,23,26,31,34,35,37,42,46,48,51	-0.27	-0.38	-0.27	1.46	-0.43	-0.73	-0.16	1.28	0.18	-0.94	1.12	1.01	-0.58	-0.43	-1.55	1.14	-0.72	**-0.28**
4048	2,4,7,11,13,16,20,23,26,31,34,35,37,42,46,48,52,53,54	-0.60	-0.38	-0.63	1.08	0.11	-1.59	-0.40	1.45	0.30	-0.94	0.81	0.05	-1.07	-0.43	-1.55	1.14	-0.72	**-3.36**
4049	2,4,7,11,13,16,20,23,26,31,34,35,37,42,47,50,54	-1.49	-0.12	-1.48	0.03	0.99	-0.73	-1.11	1.45	1.01	-0.71	-0.48	-0.90	-1.40	-0.43	-1.55	1.14	-0.72	**-6.50**
4050	2,4,7,11,13,16,20,23,26,31,34,35,37,42,49,53,54	-1.53	-0.38	-1.50	-0.02	0.96	-1.59	-1.35	1.97	0.43	-0.84	-0.30	0.05	-1.44	-0.43	-1.55	1.14	-0.72	**-7.09**
4051	2,4,7,11,13,16,20,23,26,31,34,36,39,41,40,42,46,48,51	1.06	0.40	0.85	1.72	-1.04	-0.73	0.56	1.42	0.15	1.03	0.06	1.01	0.46	-0.43	-1.55	1.14	-0.72	**5.38**
4052	2,4,7,11,13,16,20,23,26,31,34,36,39,41,40,42,46,48,52,53,54	0.73	0.40	0.50	1.33	-0.51	-1.59	0.32	1.60	0.27	1.03	-0.26	0.05	-0.02	-0.43	-1.55	1.14	-0.72	**2.29**
4053	2,4,7,11,13,16,20,23,26,31,34,36,39,41,40,42,47,50,54	-0.15	0.66	-0.35	0.28	0.37	-0.73	-0.40	1.60	0.98	1.26	-1.55	-0.90	-0.36	-0.43	-1.55	1.14	-0.72	**-0.85**
4054	2,4,7,11,13,16,20,23,26,31,34,36,39,41,40,42,49,53,54	-0.20	0.40	-0.37	0.23	0.35	-1.59	-0.64	2.12	0.40	1.14	-1.37	0.05	-0.39	-0.43	-1.55	1.14	-0.72	**-1.43**
4055	2,4,7,11,13,16,20,23,26,31,34,36,39,41,43,47,46,48,51	1.06	0.66	0.86	1.80	-1.00	-0.73	0.56	1.42	0.15	1.06	0.06	1.01	0.47	-0.43	-1.55	1.14	-0.72	**5.81**
4056	2,4,7,11,13,16,20,23,26,31,34,36,39,41,43,47,46,48,52,53,54	0.73	0.66	0.50	1.41	-0.46	-1.59	0.32	1.60	0.27	1.06	-0.26	0.05	-0.02	-0.43	-1.55	1.14	-0.72	**2.72**
4057	2,4,7,11,13,16,20,23,26,31,34,36,39,41,43,47,49,53,54	-0.19	0.92	-0.37	0.31	0.39	-1.59	-0.64	2.12	0.40	1.17	-1.36	0.05	-0.39	-0.43	-1.55	1.14	-0.72	**-0.74**
4058	2,4,7,11,13,16,20,23,26,31,34,36,39,41,43,50,54	-0.29	0.40	-0.39	0.19	0.32	-1.59	-0.40	1.60	0.98	1.21	-1.60	-0.90	-0.43	-0.43	-1.55	1.14	-0.72	**-2.46**
4059	2,4,7,11,13,16,20,23,26,31,34,36,39,44,55	-1.23	-0.90	-0.04	0.00	0.22	-2.02	-1.59	1.42	0.72	1.19	-1.75	-0.90	-0.50	-0.43	-1.55	1.14	-0.72	**-6.94**
4060	2,4,7,11,13,16,20,23,26,31,34,36,39,45,55	0.47	0.14	0.80	1.02	-0.27	0.13	-0.40	2.00	2.05	2.00	-1.05	-0.90	0.38	-0.43	-1.55	1.14	-0.72	**4.80**
4061	2,4,7,11,13,16,20,23,26,31,34,38,40,42,46,48,51	-0.24	-0.38	-0.27	1.43	0.29	-0.30	-0.16	1.64	0.50	-0.93	1.08	1.01	-0.57	-0.43	-1.55	1.14	1.40	**3.67**
4062	2,4,7,11,13,16,20,23,26,31,34,38,40,42,46,48,52,53,54	-0.56	-0.38	-0.63	1.05	0.83	-1.16	-0.40	1.82	0.62	-0.93	0.77	0.05	-1.06	-0.43	-1.55	1.14	1.40	**0.59**
4063	2,4,7,11,13,16,20,23,26,31,34,38,40,42,47,50,54	-1.45	-0.12	-1.48	0.00	1.71	-0.30	-1.11	1.82	1.33	-0.70	-0.52	-0.90	-1.39	-0.43	-1.55	1.14	1.40	**-2.55**
4064	2,4,7,11,13,16,20,23,26,31,34,38,40,42,49,53,54	-1.49	-0.38	-1.50	-0.05	1.68	-1.16	-1.35	2.34	0.75	-0.83	-0.34	0.05	-1.43	-0.43	-1.55	1.14	1.40	**-3.14**
4065	2,4,7,11,13,16,20,23,26,31,34,38,41,44,55	-0.98	-1.15	-0.75	-0.28	1.55	-1.59	-1.35	1.64	1.08	-0.77	-0.05	-0.90	-0.90	-0.43	-1.55	1.14	1.40	**-3.90**
4066	2,4,7,11,13,16,20,23,26,31,34,38,41,45,55	0.72	-0.12	0.09	0.73	1.06	0.55	-0.16	2.22	2.40	0.04	0.66	-0.90	-0.03	-0.43	-1.55	1.14	1.40	**7.84**
4067	2,4,7,11,13,16,20,23,26,31,34,38,43,47,46,48,51	-0.23	-0.64	-0.27	1.51	0.34	-0.30	-0.16	1.64	0.50	-0.90	1.09	1.01	-0.57	-0.43	-1.55	1.14	1.40	**3.58**
4068	2,4,7,11,13,16,20,23,26,31,34,38,43,47,46,48,52,53,54	-0.56	-0.64	-0.63	1.13	0.87	-1.16	-0.40	1.82	0.62	-0.90	0.77	0.05	-1.05	-0.43	-1.55	1.14	1.40	**0.50**
4069	2,4,7,11,13,16,20,23,26,31,34,38,43,47,49,53,54	-1.49	-0.38	-1.50	0.03	1.73	-1.16	-1.35	2.34	0.75	-0.79	-0.33	0.05	-1.42	-0.43	-1.55	1.14	1.40	**-2.97**
4070	2,4,7,11,13,16,20,23,26,31,34,38,43,50,54	-1.59	-0.90	-1.51	-0.09	1.66	-1.16	-1.11	1.82	1.33	-0.75	-0.58	-0.90	-1.47	-0.43	-1.55	1.14	1.40	**-4.69**
4071	2,4,7,11,13,16,20,23,26,33,37,40,41,44,55	-0.95	-1.67	-0.74	-0.28	0.48	-1.16	-1.11	1.28	0.45	-0.77	-0.02	-0.90	-0.86	-0.43	-1.55	1.14	-0.72	**-7.84**
4072	2,4,7,11,13,16,20,23,26,33,37,40,41,45,55	0.75	-0.64	0.10	0.74	-0.01	0.98	0.08	1.85	1.77	0.04	0.68	-0.90	0.01	-0.43	-1.55	1.14	-0.72	**3.90**
4073	2,4,7,11,13,16,20,23,26,33,37,40,43,47,46,48,51	-0.21	-0.64	-0.27	1.52	-0.74	0.13	0.08	1.28	-0.12	-0.89	1.11	1.01	-0.53	-0.43	-1.55	1.14	-0.72	**0.16**
4074	2,4,7,11,13,16,20,23,26,33,37,40,43,47,46,48,52,53,54	-0.53	-0.64	-0.62	1.13	-0.20	-0.73	-0.16	1.45	0.00	-0.89	0.79	0.05	-1.01	-0.43	-1.55	1.14	-0.72	**-2.93**
4075	2,4,7,11,13,16,20,23,26,33,37,40,43,47,49,53,54	-1.46	-0.38	-1.49	0.03	0.65	-0.73	-1.11	1.97	0.12	-0.79	-0.31	0.05	-1.38	-0.43	-1.55	1.14	-0.72	**-6.39**
4076	2,4,7,11,13,16,20,23,26,33,37,40,43,50,54	-1.56	-0.90	-1.51	-0.08	0.58	-0.73	-0.87	1.45	0.71	-0.74	-0.56	-0.90	-1.43	-0.43	-1.55	1.14	-0.72	**-8.11**
4077	2,4,7,11,13,16,20,23,26,33,37,42,46,48,51	-0.34	-1.41	-0.30	1.44	-0.78	-0.73	0.08	1.28	-0.12	-0.92	1.07	1.01	-0.60	-0.43	-1.55	1.14	-0.72	**-1.91**
4078	2,4,7,11,13,16,20,23,26,33,37,42,46,48,52,53,54	-0.67	-1.41	-0.66	1.05	-0.25	-1.59	-0.16	1.45	0.00	-0.92	0.75	0.05	-1.09	-0.43	-1.55	1.14	-0.72	**-5.00**
4079	2,4,7,11,13,16,20,23,26,33,37,42,47,50,54	-1.55	-1.15	-1.51	0.01	0.63	-0.73	-0.87	1.45	0.71	-0.69	-0.53	-0.90	-1.42	-0.43	-1.55	1.14	-0.72	**-8.14**
4080	2,4,7,11,13,16,20,23,26,33,37,42,49,53,54	-1.59	-1.41	-1.53	-0.05	0.61	-1.59	-1.11	1.97	0.12	-0.82	-0.35	0.05	-1.46	-0.43	-1.55	1.14	-0.72	**-8.72**
4081	2,4,7,11,13,16,20,23,27,28,31,30,32,46,47,50,54	0.97	0.66	0.14	-0.25	0.78	0.98	1.28	0.86	2.00	0.20	0.58	-0.90	0.66	0.29	-1.55	-0.77	0.98	**6.91**
4082	2,4,7,11,13,16,20,23,27,28,31,30,32,46,49,53,54	0.93	0.40	0.12	-0.30	0.75	0.13	1.04	1.38	1.42	0.07	0.74	0.05	0.62	0.29	-1.55	-0.77	0.98	**6.30**
4083	2,4,7,11,13,16,20,23,27,28,31,30,32,48,51	0.43	-0.12	0.87	-0.89	-1.21	0.98	1.75	0.68	1.18	-0.03	0.23	-0.90	1.13	0.29	-1.55	-0.77	0.98	**3.05**
4084	2,4,7,11,13,16,20,23,27,28,31,30,32,48,52,53,54	0.10	-0.12	0.51	-1.28	-0.67	0.13	1.52	0.86	1.30	-0.03	-0.09	-1.85	0.64	0.29	-1.55	-0.77	0.98	**-0.03**
4085	2,4,7,11,13,16,20,23,27,28,31,33,37,40,41,44,55	-0.92	-1.15	-0.78	-0.25	0.68	-1.16	-1.11	1.28	0.10	-0.40	-0.28	-0.90	-0.90	-0.43	-1.55	-0.77	-0.72	**-9.28**
4086	2,4,7,11,13,16,20,23,27,28,31,33,37,40,41,45,55	0.78	-0.12	0.06	0.77	0.19	0.98	0.08	1.85	1.42	0.41	0.42	-0.90	-0.02	-0.43	-1.55	-0.77	-0.72	**2.46**
4087	2,4,7,11,13,16,20,23,27,28,31,33,37,40,43,47,46,48,51	-0.17	-0.12	-0.31	1.55	-0.53	0.13	0.08	1.28	-0.48	-0.52	0.85	1.01	-0.56	-0.43	-1.55	-0.77	-0.72	**-1.28**
4088	2,4,7,11,13,16,20,23,27,28,31,33,37,40,43,47,46,48,52,53,54	-0.50	-0.12	-0.66	1.16	0.00	-0.73	-0.16	1.45	-0.35	-0.52	0.53	0.05	-1.05	-0.43	-1.55	-0.77	-0.72	**-4.37**
4089	2,4,7,11,13,16,20,23,27,28,31,33,37,40,43,47,49,53,54	-1.43	0.14	-1.53	0.06	0.86	-0.73	-1.11	1.97	-0.23	-0.42	-0.57	0.05	-1.42	-0.43	-1.55	-0.77	-0.72	**-7.83**
4090	2,4,7,11,13,16,20,23,27,28,31,33,37,40,43,50,54	-1.53	-0.38	-1.55	-0.06	0.79	-0.73	-0.87	1.45	0.35	-0.37	-0.81	-0.90	-1.46	-0.43	-1.55	-0.77	-0.72	**-9.55**
4091	2,4,7,11,13,16,20,23,27,28,31,33,37,42,46,48,51	-0.30	-0.90	-0.34	1.47	-0.58	-0.73	0.08	1.28	-0.48	-0.55	0.81	1.01	-0.63	-0.43	-1.55	-0.77	-0.72	**-3.35**
4092	2,4,7,11,13,16,20,23,27,28,31,33,37,42,46,48,52,53,54	-0.63	-0.90	-0.70	1.08	-0.04	-1.59	-0.16	1.45	-0.35	-0.55	0.49	0.05	-1.12	-0.43	-1.55	-0.77	-0.72	**-6.44**
4093	2,4,7,11,13,16,20,23,27,28,31,33,37,42,47,50,54	-1.52	-0.64	-1.55	0.03	0.84	-0.73	-0.87	1.45	0.35	-0.32	-0.79	-0.90	-1.45	-0.43	-1.55	-0.77	-0.72	**-9.58**
4094	2,4,7,11,13,16,20,23,27,28,31,33,37,42,49,53,54	-1.56	-0.90	-1.57	-0.02	0.81	-1.59	-1.11	1.97	-0.23	-0.45	-0.61	0.05	-1.49	-0.43	-1.55	-0.77	-0.72	**-10.16**
4095	2,4,7,11,13,16,20,23,27,28,34,35,37,40,41,44,55	-0.95	-1.15	-0.78	-0.23	1.04	-1.16	-1.35	1.28	0.40	-0.44	-0.31	-0.90	-0.94	-0.43	-1.55	-0.77	-0.72	**-8.97**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
4096	2,4,7,11,13,16,20,23,27,28,34,35,37,40,41,45,55	0.76	-0.12	0.06	0.79	0.55	0.98	-0.16	1.85	1.72	0.37	0.40	-0.90	-0.06	-0.43	-1.55	-0.77	-0.72	**2.77**
4097	2,4,7,11,13,16,20,23,27,28,34,35,37,40,43,47,46,48,51	-0.20	-0.12	-0.30	1.57	-0.18	0.13	-0.16	1.28	-0.17	-0.56	0.82	1.01	-0.60	-0.43	-1.55	-0.77	-0.72	**-0.97**
4098	2,4,7,11,13,16,20,23,27,28,34,35,37,40,43,47,46,48,52,53,54	-0.53	-0.12	-0.66	1.18	0.36	-0.73	-0.40	1.45	-0.05	-0.56	0.51	0.05	-1.09	-0.43	-1.55	-0.77	-0.72	**-4.06**
4099	2,4,7,11,13,16,20,23,27,28,34,35,37,40,43,47,49,53,54	-1.45	0.14	-1.52	0.08	1.21	-0.73	-1.35	1.97	0.07	-0.46	-0.60	0.05	-1.46	-0.43	-1.55	-0.77	-0.72	**-7.52**
4100	2,4,7,11,13,16,20,23,27,28,34,35,37,40,43,50,54	-1.55	-0.38	-1.54	-0.04	1.15	-0.73	-1.11	1.45	0.65	-0.42	-0.84	-0.90	-1.50	-0.43	-1.55	-0.77	-0.72	**-9.24**
4101	2,4,7,11,13,16,20,23,27,28,34,35,37,42,46,48,51	-0.33	-0.90	-0.34	1.49	-0.22	-0.73	-0.16	1.28	-0.17	-0.60	0.79	1.01	-0.68	-0.43	-1.55	-0.77	-0.72	**-3.04**
4102	2,4,7,11,13,16,20,23,27,28,34,35,37,42,46,48,52,53,54	-0.66	-0.90	-0.69	1.10	0.32	-1.59	-0.40	1.45	-0.05	-0.60	0.47	0.05	-1.16	-0.43	-1.55	-0.77	-0.72	**-6.13**
4103	2,4,7,11,13,16,20,23,27,28,34,35,37,42,47,50,54	-1.54	-0.64	-1.54	0.06	1.20	-0.73	-1.11	1.45	0.65	-0.37	-0.82	-0.90	-1.50	-0.43	-1.55	-0.77	-0.72	**-9.27**
4104	2,4,7,11,13,16,20,23,27,28,34,35,37,42,49,53,54	-1.59	-0.90	-1.56	0.00	1.17	-1.59	-1.35	1.97	0.07	-0.49	-0.63	0.05	-1.54	-0.43	-1.55	-0.77	-0.72	**-9.86**
4105	2,4,7,11,13,16,20,23,27,28,34,36,39,41,40,42,46,48,51	1.00	-0.12	0.79	1.75	-0.84	-0.73	0.56	1.42	-0.20	1.38	-0.28	1.01	0.36	-0.43	-1.55	-0.77	-0.72	**2.61**
4106	2,4,7,11,13,16,20,23,27,28,34,36,39,41,40,42,46,48,52,53,54	0.67	-0.12	0.43	1.36	-0.30	-1.59	0.32	1.60	-0.08	1.38	-0.60	0.05	-0.12	-0.43	-1.55	-0.77	-0.72	**-0.47**
4107	2,4,7,11,13,16,20,23,27,28,34,36,39,41,40,42,47,50,54	-0.21	0.14	-0.42	0.31	0.58	-0.73	-0.40	1.60	0.62	1.61	-1.88	-0.90	-0.46	-0.43	-1.55	-0.77	-0.72	**-3.61**
4108	2,4,7,11,13,16,20,23,27,28,34,36,39,41,40,42,49,53,54	-0.25	-0.12	-0.43	0.26	0.55	-1.59	-0.64	2.12	0.04	1.48	-1.70	0.05	-0.49	-0.43	-1.55	-0.77	-0.72	**-4.20**
4109	2,4,7,11,13,16,20,23,27,28,34,36,39,41,43,47,46,48,51	1.00	0.14	0.79	1.82	-0.79	-0.73	0.56	1.42	-0.20	1.41	-0.27	1.01	0.37	-0.43	-1.55	-0.77	-0.72	**3.04**
4110	2,4,7,11,13,16,20,23,27,28,34,36,39,41,43,47,46,48,52,53,54	0.68	0.14	0.43	1.44	-0.26	-1.59	0.32	1.60	-0.08	1.41	-0.59	0.05	-0.12	-0.43	-1.55	-0.77	-0.72	**-0.04**
4111	2,4,7,11,13,16,20,23,27,28,34,36,39,41,43,47,49,53,54	-0.25	0.40	-0.43	0.34	0.60	-1.59	-0.64	2.12	0.04	1.51	-1.70	0.05	-0.49	-0.43	-1.55	-0.77	-0.72	**-3.51**
4112	2,4,7,11,13,16,20,23,27,28,34,36,39,41,43,50,54	-0.35	-0.12	-0.45	0.22	0.53	-1.59	-0.40	1.60	0.62	1.56	-1.94	-0.90	-0.53	-0.43	-1.55	-0.77	-0.72	**-5.23**
4113	2,4,7,11,13,16,20,23,27,28,34,36,39,44,55	-1.29	-1.41	-0.10	0.03	0.42	-2.02	-1.59	1.42	0.37	1.53	-2.09	-0.90	-0.59	-0.43	-1.55	-0.77	-0.72	**-9.70**
4114	2,4,7,11,13,16,20,23,27,28,34,36,39,45,55	0.42	-0.38	0.74	1.05	-0.07	0.13	-0.40	2.00	1.69	2.34	-1.38	-0.90	0.28	-0.43	-1.55	-0.77	-0.72	**2.03**
4115	2,4,7,11,13,16,20,23,27,28,34,38,40,42,46,48,51	-0.29	-0.90	-0.34	1.46	0.50	-0.30	-0.16	1.64	0.15	-0.59	0.75	1.01	-0.67	-0.43	-1.55	-0.77	1.40	**0.91**
4116	2,4,7,11,13,16,20,23,27,28,34,38,40,42,46,48,52,53,54	-0.62	-0.90	-0.70	1.07	1.04	-1.16	-0.40	1.82	0.27	-0.59	0.43	0.05	-1.16	-0.43	-1.55	-0.77	1.40	**-2.18**
4117	2,4,7,11,13,16,20,23,27,28,34,38,40,42,47,50,54	-1.50	-0.64	-1.54	0.02	1.92	-0.30	-1.11	1.82	0.98	-0.35	-0.86	-0.90	-1.49	-0.43	-1.55	-0.77	1.40	**-5.32**
4118	2,4,7,11,13,16,20,23,27,28,34,38,40,42,49,53,54	-1.55	-0.90	-1.56	-0.03	1.89	-1.16	-1.35	2.34	0.40	-0.48	-0.67	0.05	-1.53	-0.43	-1.55	-0.77	1.40	**-5.90**
4119	2,4,7,11,13,16,20,23,27,28,34,38,41,44,55	-1.04	-1.67	-0.81	-0.26	1.76	-1.59	-1.35	1.64	0.72	-0.43	-0.38	-0.90	-1.00	-0.43	-1.55	-0.77	1.40	**-6.66**
4120	2,4,7,11,13,16,20,23,27,28,34,38,41,45,55	0.66	-0.64	0.03	0.76	1.27	0.55	-0.16	2.22	2.05	0.38	0.32	-0.90	-0.13	-0.43	-1.55	-0.77	1.40	**5.07**
4121	2,4,7,11,13,16,20,23,27,28,34,38,43,47,46,48,51	-0.29	-1.15	-0.34	1.54	0.54	-0.30	-0.16	1.64	0.15	-0.55	0.75	1.01	-0.67	-0.43	-1.55	-0.77	1.40	**0.82**
4122	2,4,7,11,13,16,20,23,27,28,34,38,43,47,46,48,52,53,54	-0.62	-1.15	-0.69	1.15	1.08	-1.16	-0.40	1.82	0.27	-0.55	0.43	0.05	-1.15	-0.43	-1.55	-0.77	1.40	**-2.27**
4123	2,4,7,11,13,16,20,23,27,28,34,38,43,47,49,53,54	-1.55	-0.90	-1.56	0.05	1.93	-1.16	-1.35	2.34	0.40	-0.45	-0.67	0.05	-1.52	-0.43	-1.55	-0.77	1.40	**-5.73**
4124	2,4,7,11,13,16,20,23,27,28,34,38,43,50,54	-1.65	-1.41	-1.58	-0.07	1.87	-1.16	-1.11	1.82	0.98	-0.40	-0.91	-0.90	-1.57	-0.43	-1.55	-0.77	1.40	**-7.45**
4125	2,4,7,11,17,18,20,23,26,30,32,46,47,50,54	0.94	0.66	0.18	-0.31	0.28	0.98	1.52	0.86	2.36	-0.17	0.81	-0.90	0.70	-0.33	-1.55	1.14	0.98	**8.15**
4126	2,4,7,11,17,18,20,23,26,30,32,46,49,53,54	0.90	0.40	0.17	-0.36	0.25	0.13	1.28	1.38	1.78	-0.30	0.97	0.05	0.67	-0.33	-1.55	1.14	0.98	**7.54**
4127	2,4,7,11,17,18,20,23,26,30,32,48,51	0.40	-0.12	0.91	-0.96	-1.70	0.98	1.99	0.68	1.53	-0.40	0.46	-0.90	1.18	-0.33	-1.55	1.14	0.98	**4.29**
4128	2,4,7,11,17,18,20,23,26,30,32,48,52,53,54	0.07	-0.12	0.56	-1.34	-1.16	0.13	1.75	0.86	1.65	-0.40	0.14	-1.85	0.69	-0.33	-1.55	1.14	0.98	**1.21**
4129	2,4,7,11,17,18,20,23,26,31,34,35,37,40,41,44,55	-0.88	-0.64	-0.71	-0.29	0.55	-1.16	-1.11	1.28	0.75	-0.79	0.01	-0.90	-0.83	-1.06	-1.55	1.14	-0.72	**-6.92**
4130	2,4,7,11,17,18,20,23,26,31,34,35,37,40,41,45,55	0.82	0.40	0.13	0.72	0.05	0.98	0.08	1.85	2.08	0.02	0.71	-0.90	0.05	-1.06	-1.55	1.14	-0.72	**4.81**
4131	2,4,7,11,17,18,20,23,26,31,34,35,37,40,43,47,46,48,51	-0.14	0.40	-0.23	1.50	-0.67	0.13	0.08	1.28	0.18	-0.91	1.14	1.01	-0.49	-1.06	-1.55	1.14	-0.72	**1.07**
4132	2,4,7,11,17,18,20,23,26,31,34,35,37,40,43,47,46,48,52,53,54	-0.46	0.40	-0.59	1.12	-0.13	-0.73	-0.16	1.45	0.30	-0.91	0.82	0.05	-0.98	-1.06	-1.55	1.14	-0.72	**-2.01**
4133	2,4,7,11,17,18,20,23,26,31,34,35,37,40,43,47,49,53,54	-1.39	0.66	-1.46	0.02	0.72	-0.73	-1.11	1.97	0.43	-0.80	-0.29	0.05	-1.35	-1.06	-1.55	1.14	-0.72	**-5.48**
4134	2,4,7,11,17,18,20,23,26,31,34,35,37,40,43,50,54	-1.49	0.14	-1.48	-0.10	0.65	-0.73	-0.87	1.45	1.01	-0.76	-0.53	-0.90	-1.39	-1.06	-1.55	1.14	-0.72	**-7.20**
4135	2,4,7,11,17,18,20,23,26,31,34,35,37,42,46,48,51	-0.27	-0.38	-0.27	1.42	-0.72	-0.73	0.08	1.28	0.18	-0.94	1.10	1.01	-0.57	-1.06	-1.55	1.14	-0.72	**-1.00**
4136	2,4,7,11,17,18,20,23,26,31,34,35,37,42,46,48,52,53,54	-0.59	-0.38	-0.63	1.04	-0.18	-1.59	-0.16	1.45	0.30	-0.94	0.78	0.05	-1.05	-1.06	-1.55	1.14	-0.72	**-4.08**
4137	2,4,7,11,17,18,20,23,26,31,34,35,37,42,47,50,54	-1.48	-0.12	-1.47	-0.01	0.70	-0.73	-0.87	1.45	1.01	-0.71	-0.51	-0.90	-1.39	-1.06	-1.55	1.14	-0.72	**-7.22**
4138	2,4,7,11,17,18,20,23,26,31,34,35,37,42,49,53,54	-1.52	-0.38	-1.49	-0.06	0.67	-1.59	-1.11	1.97	0.43	-0.84	-0.32	0.05	-1.42	-1.06	-1.55	1.14	-0.72	**-7.81**
4139	2,4,7,11,17,18,20,23,26,31,34,36,39,41,40,42,46,48,51	1.07	0.40	0.86	1.68	-1.33	-0.73	0.80	1.42	0.15	1.03	0.03	1.01	0.47	-1.06	-1.55	1.14	-0.72	**4.66**
4140	2,4,7,11,17,18,20,23,26,31,34,36,39,41,40,42,46,48,52,53,54	0.74	0.40	0.50	1.29	-0.80	-1.59	0.56	1.60	0.27	1.03	-0.29	0.05	-0.01	-1.06	-1.55	1.14	-0.72	**1.57**
4141	2,4,7,11,17,18,20,23,26,31,34,36,39,41,40,42,47,50,54	-0.14	0.66	-0.35	0.24	0.08	-0.73	-0.16	1.60	0.98	1.26	-1.57	-0.90	-0.35	-1.06	-1.55	1.14	-0.72	**-1.57**
4142	2,4,7,11,17,18,20,23,26,31,34,36,39,41,40,42,49,53,54	-0.19	0.40	-0.37	0.19	0.06	-1.59	-0.40	2.12	0.40	1.14	-1.39	0.05	-0.38	-1.06	-1.55	1.14	-0.72	**-2.15**
4143	2,4,7,11,17,18,20,23,26,31,34,36,39,41,43,47,46,48,51	1.07	0.66	0.86	1.76	-1.29	-0.73	0.80	1.42	0.15	1.06	0.04	1.01	0.48	-1.06	-1.55	1.14	-0.72	**5.09**
4144	2,4,7,11,17,18,20,23,26,31,34,36,39,41,43,47,46,48,52,53,54	0.74	0.66	0.50	1.37	-0.75	-1.59	0.56	1.60	0.27	1.06	-0.28	0.05	-0.01	-1.06	-1.55	1.14	-0.72	**2.00**
4145	2,4,7,11,17,18,20,23,26,31,34,36,39,41,43,47,49,53,54	-0.19	0.92	-0.36	0.27	0.10	-1.59	-0.40	2.12	0.40	1.17	-1.38	0.05	-0.38	-1.06	-1.55	1.14	-0.72	**-1.46**
4146	2,4,7,11,17,18,20,23,26,31,34,36,39,41,43,50,54	-0.29	0.40	-0.38	0.15	0.03	-1.59	-0.16	1.60	0.98	1.21	-1.63	-0.90	-0.42	-1.06	-1.55	1.14	-0.72	**-3.18**
4147	2,4,7,11,17,18,20,23,26,31,34,36,39,44,55	-1.22	-0.90	-0.03	-0.04	-0.07	-2.02	-1.35	1.42	0.72	1.19	-1.78	-0.90	-0.48	-1.06	-1.55	1.14	-0.72	**-7.66**
4148	2,4,7,11,17,18,20,23,26,31,34,36,39,45,55	0.48	0.14	0.81	0.98	-0.56	0.13	-0.16	2.00	2.05	2.00	-1.07	-0.90	0.39	-1.06	-1.55	1.14	-0.72	**4.08**
4149	2,4,7,11,17,18,20,23,26,31,34,38,40,42,46,48,51	-0.23	-0.38	-0.27	1.39	0.00	-0.30	0.08	1.64	0.50	-0.93	1.06	1.01	-0.56	-1.06	-1.55	1.14	1.40	**2.95**
4150	2,4,7,11,17,18,20,23,26,31,34,38,40,42,46,48,52,53,54	-0.55	-0.38	-0.63	1.01	0.54	-1.16	-0.16	1.82	0.62	-0.93	0.74	0.05	-1.04	-1.06	-1.55	1.14	1.40	**-0.13**
4151	2,4,7,11,17,18,20,23,26,31,34,38,40,42,47,50,54	-1.44	-0.12	-1.48	-0.04	1.42	-0.30	-0.87	1.82	1.33	-0.70	-0.55	-0.90	-1.38	-1.06	-1.55	1.14	1.40	**-3.27**
4152	2,4,7,11,17,18,20,23,26,31,34,38,40,42,49,53,54	-1.48	-0.38	-1.50	-0.09	1.39	-1.16	-1.11	2.34	0.75	-0.83	-0.36	0.05	-1.42	-1.06	-1.55	1.14	1.40	**-3.86**
4153	2,4,7,11,17,18,20,23,26,31,34,38,41,44,55	-0.97	-1.15	-0.75	-0.33	1.26	-1.59	-1.11	1.64	1.08	-0.77	-0.07	-0.90	-0.89	-1.06	-1.55	1.14	1.40	**-4.62**
4154	2,4,7,11,17,18,20,23,26,31,34,38,41,45,55	0.73	-0.12	0.10	0.69	0.77	0.55	0.08	2.22	2.40	0.04	0.63	-0.90	-0.02	-1.06	-1.55	1.14	1.40	**7.12**
4155	2,4,7,11,17,18,20,23,26,31,34,38,43,47,46,48,51	-0.23	-0.64	-0.27	1.47	0.05	-0.30	0.08	1.64	0.50	-0.90	1.07	1.01	-0.56	-1.06	-1.55	1.14	1.40	**2.86**
4156	2,4,7,11,17,18,20,23,26,31,34,38,43,47,46,48,52,53,54	-0.55	-0.64	-0.63	1.08	0.58	-1.16	-0.16	1.82	0.62	-0.90	0.75	0.05	-1.04	-1.06	-1.55	1.14	1.40	**-0.22**
4157	2,4,7,11,17,18,20,23,26,31,34,38,43,47,49,53,54	-1.48	-0.38	-1.49	-0.01	1.43	-1.16	-1.11	2.34	0.75	-0.79	-0.36	0.05	-1.41	-1.06	-1.55	1.14	1.40	**-3.69**
4158	2,4,7,11,17,18,20,23,26,31,34,38,43,50,54	-1.58	-0.90	-1.51	-0.13	1.37	-1.16	-0.87	1.82	1.33	-0.75	-0.60	-0.90	-1.46	-1.06	-1.55	1.14	1.40	**-5.41**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
4159	2,4,7,11,17,18,20,23,26,33,37,40,41,44,55	-0.94	-1.67	-0.74	-0.32	0.19	-1.16	-0.87	1.28	0.45	-0.77	-0.05	-0.90	-0.85	-1.06	-1.55	1.14	-0.72	**-8.56**
4160	2,4,7,11,17,18,20,23,26,33,37,40,41,45,55	0.76	-0.64	0.10	0.70	-0.30	0.98	0.32	1.85	1.77	0.04	0.66	-0.90	0.03	-1.06	-1.55	1.14	-0.72	**3.18**
4161	2,4,7,11,17,18,20,23,26,33,37,40,43,47,46,48,51	-0.20	-0.64	-0.26	1.48	-1.03	0.13	0.32	1.28	-0.12	-0.89	1.08	1.01	-0.51	-1.06	-1.55	1.14	-0.72	**-0.56**
4162	2,4,7,11,17,18,20,23,26,33,37,40,43,47,46,48,52,53,54	-0.53	-0.64	-0.62	1.09	-0.49	-0.73	0.08	1.45	0.00	-0.89	0.77	0.05	-1.00	-1.06	-1.55	1.14	-0.72	**-3.65**
4163	2,4,7,11,17,18,20,23,26,33,37,40,43,47,49,53,54	-1.45	-0.38	-1.49	-0.01	0.36	-0.73	-0.87	1.97	0.12	-0.79	-0.34	0.05	-1.37	-1.06	-1.55	1.14	-0.72	**-7.11**
4164	2,4,7,11,17,18,20,23,26,33,37,40,43,50,54	-1.55	-0.90	-1.51	-0.12	0.29	-0.73	-0.64	1.45	0.71	-0.74	-0.58	-0.90	-1.41	-1.06	-1.55	1.14	-0.72	**-8.83**
4165	2,4,7,11,17,18,20,23,26,33,37,42,46,48,51	-0.33	-1.41	-0.30	1.40	-1.07	-0.73	0.32	1.28	-0.12	-0.92	1.05	1.01	-0.59	-1.06	-1.55	1.14	-0.72	**-2.63**
4166	2,4,7,11,17,18,20,23,26,33,37,42,46,48,52,53,54	-0.66	-1.41	-0.66	1.01	-0.54	-1.59	0.08	1.45	0.00	-0.92	0.73	0.05	-1.07	-1.06	-1.55	1.14	-0.72	**-5.72**
4167	2,4,7,11,17,18,20,23,26,33,37,42,47,50,54	-1.54	-1.15	-1.51	-0.03	0.34	-0.73	-0.64	1.45	0.71	-0.69	-0.56	-0.90	-1.41	-1.06	-1.55	1.14	-0.72	**-8.86**
4168	2,4,7,11,17,18,20,23,26,33,37,42,49,53,54	-1.59	-1.41	-1.53	-0.09	0.32	-1.59	-0.87	1.97	0.12	-0.82	-0.38	0.05	-1.44	-1.06	-1.55	1.14	-0.72	**-9.44**
4169	2,4,7,11,17,18,20,23,27,28,31,30,32,46,47,50,54	0.98	0.66	0.14	-0.29	0.49	0.98	1.52	0.86	2.00	0.20	0.55	-0.90	0.67	-0.33	-1.55	-0.77	0.98	**6.19**
4170	2,4,7,11,17,18,20,23,27,28,31,30,32,46,49,53,54	0.94	0.40	0.12	-0.34	0.46	0.13	1.28	1.38	1.42	0.07	0.71	0.05	0.63	-0.33	-1.55	-0.77	0.98	**5.58**
4171	2,4,7,11,17,18,20,23,27,28,31,30,32,48,51	0.44	-0.12	0.87	-0.93	-1.50	0.98	1.99	0.68	1.18	-0.03	0.21	-0.90	1.14	-0.33	-1.55	-0.77	0.98	**2.33**
4172	2,4,7,11,17,18,20,23,27,28,31,30,32,48,52,53,54	0.11	-0.12	0.52	-1.32	-0.96	0.13	1.75	0.86	1.30	-0.03	-0.11	-1.85	0.66	-0.33	-1.55	-0.77	0.98	**-0.75**
4173	2,4,7,11,17,18,20,23,27,28,31,33,37,40,41,44,55	-0.91	-1.15	-0.78	-0.29	0.39	-1.16	-0.87	1.28	0.10	-0.40	-0.31	-0.90	-0.88	-1.06	-1.55	-0.77	-0.72	**-10.00**
4174	2,4,7,11,17,18,20,23,27,28,31,33,37,40,41,45,55	0.79	-0.12	0.06	0.73	-0.10	0.98	0.32	1.85	1.42	0.41	0.40	-0.90	-0.01	-1.06	-1.55	-0.77	-0.72	**1.74**
4175	2,4,7,11,17,18,20,23,27,28,31,33,37,40,43,47,46,48,51	-0.17	-0.12	-0.31	1.51	-0.82	0.13	0.32	1.28	-0.48	-0.52	0.83	1.01	-0.55	-1.06	-1.55	-0.77	-0.72	**-2.00**
4176	2,4,7,11,17,18,20,23,27,28,31,33,37,40,43,47,46,48,52,53,54	-0.49	-0.12	-0.66	1.12	-0.29	-0.73	0.08	1.45	-0.35	-0.52	0.51	0.05	-1.03	-1.06	-1.55	-0.77	-0.72	**-5.09**
4177	2,4,7,11,17,18,20,23,27,28,31,33,37,40,43,47,49,53,54	-1.42	0.14	-1.53	0.02	0.56	-0.73	-0.87	1.97	-0.23	-0.42	-0.60	0.05	-1.40	-1.06	-1.55	-0.77	-0.72	**-8.55**
4178	2,4,7,11,17,18,20,23,27,28,31,33,37,40,43,50,54	-1.52	-0.38	-1.55	-0.10	0.50	-0.73	-0.64	1.45	0.35	-0.37	-0.84	-0.90	-1.45	-1.06	-1.55	-0.77	-0.72	**-10.27**
4179	2,4,7,11,17,18,20,23,27,28,31,33,37,42,46,48,51	-0.30	-0.90	-0.34	1.43	-0.87	-0.73	0.32	1.28	-0.48	-0.55	0.79	1.01	-0.62	-1.06	-1.55	-0.77	-0.72	**-4.07**
4180	2,4,7,11,17,18,20,23,27,28,31,33,37,42,46,48,52,53,54	-0.62	-0.90	-0.70	1.04	-0.33	-1.59	0.08	1.45	-0.35	-0.55	0.47	0.05	-1.11	-1.06	-1.55	-0.77	-0.72	**-7.16**
4181	2,4,7,11,17,18,20,23,27,28,31,33,37,42,47,50,54	-1.51	-0.64	-1.55	-0.01	0.55	-0.73	-0.64	1.45	0.35	-0.32	-0.82	-0.90	-1.44	-1.06	-1.55	-0.77	-0.72	**-10.30**
4182	2,4,7,11,17,18,20,23,27,28,31,33,37,42,49,53,54	-1.55	-0.90	-1.57	-0.06	0.52	-1.59	-0.87	1.97	-0.23	-0.45	-0.63	0.05	-1.48	-1.06	-1.55	-0.77	-0.72	**-10.88**
4183	2,4,7,11,17,18,20,23,27,28,34,35,37,40,41,44,55	-0.94	-1.15	-0.77	-0.27	0.75	-1.16	-1.11	1.28	0.40	-0.44	-0.33	-0.90	-0.93	-1.06	-1.55	-0.77	-0.72	**-9.69**
4184	2,4,7,11,17,18,20,23,27,28,34,35,37,40,41,45,55	0.76	-0.12	0.07	0.75	0.26	0.98	0.08	1.85	1.72	0.37	0.38	-0.90	-0.05	-1.06	-1.55	-0.77	-0.72	**2.05**
4185	2,4,7,11,17,18,20,23,27,28,34,35,37,40,43,47,46,48,51	-0.19	-0.12	-0.30	1.53	-0.47	0.13	0.08	1.28	-0.17	-0.56	0.80	1.01	-0.59	-1.06	-1.55	-0.77	-0.72	**-1.69**
4186	2,4,7,11,17,18,20,23,27,28,34,35,37,40,43,47,46,48,52,53,54	-0.52	-0.12	-0.66	1.14	0.07	-0.73	-0.16	1.45	-0.05	-0.56	0.48	0.05	-1.08	-1.06	-1.55	-0.77	-0.72	**-4.78**
4187	2,4,7,11,17,18,20,23,27,28,34,35,37,40,43,47,49,53,54	-1.45	0.14	-1.52	0.04	0.92	-0.73	-1.11	1.97	0.07	-0.46	-0.62	0.05	-1.45	-1.06	-1.55	-0.77	-0.72	**-8.24**
4188	2,4,7,11,17,18,20,23,27,28,34,35,37,40,43,50,54	-1.55	-0.38	-1.54	-0.08	0.86	-0.73	-0.87	1.45	0.65	-0.42	-0.86	-0.90	-1.49	-1.06	-1.55	-0.77	-0.72	**-9.96**
4189	2,4,7,11,17,18,20,23,27,28,34,35,37,42,46,48,51	-0.33	-0.90	-0.34	1.45	-0.51	-0.73	0.08	1.28	-0.17	-0.60	0.76	1.01	-0.67	-1.06	-1.55	-0.77	-0.72	**-3.76**
4190	2,4,7,11,17,18,20,23,27,28,34,35,37,42,46,48,52,53,54	-0.65	-0.90	-0.69	1.06	0.03	-1.59	-0.16	1.45	-0.05	-0.60	0.45	0.05	-1.15	-1.06	-1.55	-0.77	-0.72	**-6.85**
4191	2,4,7,11,17,18,20,23,27,28,34,35,37,42,47,50,54	-1.54	-0.64	-1.54	0.01	0.91	-0.73	-0.87	1.45	0.65	-0.37	-0.84	-0.90	-1.49	-1.06	-1.55	-0.77	-0.72	**-9.99**
4192	2,4,7,11,17,18,20,23,27,28,34,35,37,42,49,53,54	-1.58	-0.90	-1.56	-0.04	0.88	-1.59	-1.11	1.97	0.07	-0.49	-0.66	0.05	-1.52	-1.06	-1.55	-0.77	-0.72	**-10.58**
4193	2,4,7,11,17,18,20,23,27,28,34,36,39,41,40,42,46,48,51	1.01	-0.12	0.79	1.70	-1.13	-0.73	0.80	1.42	-0.20	1.38	-0.30	1.01	0.38	-1.06	-1.55	-0.77	-0.72	**1.89**
4194	2,4,7,11,17,18,20,23,27,28,34,36,39,41,40,42,46,48,52,53,54	0.68	-0.12	0.43	1.32	-0.59	-1.59	0.56	1.60	-0.08	1.38	-0.62	0.05	-0.11	-1.06	-1.55	-0.77	-0.72	**-1.19**
4195	2,4,7,11,17,18,20,23,27,28,34,36,39,41,40,42,47,50,54	-0.20	0.14	-0.41	0.27	0.29	-0.73	-0.16	1.60	0.62	1.61	-1.91	-0.90	-0.44	-1.06	-1.55	-0.77	-0.72	**-4.33**
4196	2,4,7,11,17,18,20,23,27,28,34,36,39,41,40,42,49,53,54	-0.25	-0.12	-0.43	0.22	0.26	-1.59	-0.40	2.12	0.04	1.48	-1.73	0.05	-0.48	-1.06	-1.55	-0.77	-0.72	**-4.92**
4197	2,4,7,11,17,18,20,23,27,28,34,36,39,41,43,47,46,48,51	1.01	0.14	0.79	1.78	-1.08	-0.73	0.80	1.42	-0.20	1.41	-0.30	1.01	0.38	-1.06	-1.55	-0.77	-0.72	**2.32**
4198	2,4,7,11,17,18,20,23,27,28,34,36,39,41,43,47,46,48,52,53,54	0.68	0.14	0.44	1.40	-0.55	-1.59	0.56	1.60	-0.08	1.41	-0.62	0.05	-0.10	-1.06	-1.55	-0.77	-0.72	**-0.76**
4199	2,4,7,11,17,18,20,23,27,28,34,36,39,41,43,47,49,53,54	-0.25	0.40	-0.43	0.30	0.30	-1.59	-0.40	2.12	0.04	1.51	-1.72	0.05	-0.48	-1.06	-1.55	-0.77	-0.72	**-4.23**
4200	2,4,7,11,17,18,20,23,27,28,34,36,39,41,43,50,54	-0.34	-0.12	-0.45	0.18	0.24	-1.59	-0.16	1.60	0.62	1.56	-1.96	-0.90	-0.52	-1.06	-1.55	-0.77	-0.72	**-5.95**
4201	2,4,7,11,17,18,20,23,27,28,34,36,39,44,55	-1.28	-1.41	-0.10	-0.01	0.13	-2.02	-1.35	1.42	0.37	1.53	-2.11	-0.90	-0.58	-1.06	-1.55	-0.77	-0.72	**-10.42**
4202	2,4,7,11,17,18,20,23,27,28,34,36,39,45,55	0.42	-0.38	0.74	1.01	-0.36	0.13	-0.16	2.00	1.69	2.34	-1.41	-0.90	0.29	-1.06	-1.55	-0.77	-0.72	**1.31**
4203	2,4,7,11,17,18,20,23,27,28,34,38,40,42,46,48,51	-0.29	-0.90	-0.34	1.42	0.21	-0.30	0.08	1.64	0.15	-0.59	0.72	1.01	-0.66	-1.06	-1.55	-0.77	1.40	**0.19**
4204	2,4,7,11,17,18,20,23,27,28,34,38,40,42,46,48,52,53,54	-0.61	-0.90	-0.69	1.03	0.74	-1.16	-0.16	1.82	0.27	-0.59	0.41	0.05	-1.14	-1.06	-1.55	-0.77	1.40	**-2.90**
4205	2,4,7,11,17,18,20,23,27,28,34,38,40,42,47,50,54	-1.50	-0.64	-1.54	-0.02	1.62	-0.30	-0.87	1.82	0.98	-0.35	-0.88	-0.90	-1.48	-1.06	-1.55	-0.77	1.40	**-6.04**
4206	2,4,7,11,17,18,20,23,27,28,34,38,40,42,49,53,54	-1.54	-0.90	-1.56	-0.07	1.60	-1.16	-1.11	2.34	0.40	-0.48	-0.70	0.05	-1.51	-1.06	-1.55	-0.77	1.40	**-6.62**
4207	2,4,7,11,17,18,20,23,27,28,34,38,41,44,55	-1.03	-1.67	-0.81	-0.30	1.47	-1.59	-1.11	1.64	0.72	-0.43	-0.41	-0.90	-0.99	-1.06	-1.55	-0.77	1.40	**-7.38**
4208	2,4,7,11,17,18,20,23,27,28,34,38,41,45,55	0.67	-0.64	0.03	0.72	0.98	0.55	0.08	2.22	2.05	0.38	0.30	-0.90	-0.11	-1.06	-1.55	-0.77	1.40	**4.35**
4209	2,4,7,11,17,18,20,23,27,28,34,38,43,47,46,48,51	-0.28	-1.15	-0.34	1.50	0.25	-0.30	0.08	1.64	0.15	-0.55	0.73	1.01	-0.65	-1.06	-1.55	-0.77	1.40	**0.10**
4210	2,4,7,11,17,18,20,23,27,28,34,38,43,47,46,48,52,53,54	-0.61	-1.15	-0.69	1.11	0.79	-1.16	-0.16	1.82	0.27	-0.55	0.41	0.05	-1.14	-1.06	-1.55	-0.77	1.40	**-2.99**
4211	2,4,7,11,17,18,20,23,27,28,34,38,43,47,49,53,54	-1.54	-0.90	-1.56	0.01	1.64	-1.16	-1.11	2.34	0.40	-0.45	-0.69	0.05	-1.51	-1.06	-1.55	-0.77	1.40	**-6.45**
4212	2,4,7,11,17,18,20,23,27,28,34,38,43,50,54	-1.64	-1.41	-1.58	-0.11	1.57	-1.16	-0.87	1.82	0.98	-0.40	-0.94	-0.90	-1.55	-1.06	-1.55	-0.77	1.40	**-8.17**
4213	2,4,7,11,17,19,22,24,29,36,35,37,40,41,44,55	0.63	-0.38	0.57	-0.78	-0.34	-0.30	0.08	0.23	0.18	-0.56	0.40	-0.90	0.99	1.02	-1.55	-0.77	-0.72	**-2.23**
4214	2,4,7,11,17,19,22,24,29,36,35,37,40,41,45,55	2.33	0.66	1.41	0.23	-0.84	1.84	1.28	0.80	1.50	0.25	1.11	-0.90	1.87	1.02	-1.55	-0.77	-0.72	**9.51**
4215	2,4,7,11,17,19,22,24,29,36,35,37,40,43,47,46,48,51	1.37	0.66	1.04	1.01	-1.56	0.98	1.28	0.23	-0.39	-0.69	1.53	1.01	1.33	1.02	-1.55	-0.77	-0.72	**5.77**
4216	2,4,7,11,17,19,22,24,29,36,35,37,40,43,47,46,48,52,53,54	1.04	0.66	0.69	0.63	-1.03	0.13	1.04	0.41	-0.27	-0.69	1.21	0.05	0.84	1.02	-1.55	-0.77	-0.72	**2.68**
4217	2,4,7,11,17,19,22,24,29,36,35,37,40,43,47,49,53,54	0.12	0.92	-0.18	-0.47	-0.17	0.13	0.08	0.93	-0.15	-0.58	0.11	0.05	0.47	1.02	-1.55	-0.77	-0.72	**-0.78**
4218	2,4,7,11,17,19,22,24,29,36,35,37,40,43,50,54	0.02	0.40	-0.20	-0.59	-0.24	0.13	0.32	0.41	0.43	-0.54	-0.13	-0.90	0.43	1.02	-1.55	-0.77	-0.72	**-2.50**
4219	2,4,7,11,17,19,22,24,29,36,35,37,42,46,48,51	1.24	-0.12	1.00	0.93	-1.61	0.13	1.28	0.23	-0.39	-0.72	1.49	1.01	1.25	1.02	-1.55	-0.77	-0.72	**3.69**
4220	2,4,7,11,17,19,22,24,29,36,35,37,42,46,48,52,53,54	0.91	-0.12	0.65	0.55	-1.07	-0.73	1.04	0.41	-0.27	-0.72	1.17	0.05	0.77	1.02	-1.55	-0.77	-0.72	**0.61**
4221	2,4,7,11,17,19,22,24,29,36,35,37,42,47,50,54	0.03	0.14	-0.20	-0.50	-0.19	0.13	0.32	0.41	0.43	-0.49	-0.11	-0.90	0.43	1.02	-1.55	-0.77	-0.72	**-2.53**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
4222	2,4,7,11,17,19,22,24,29,36,35,37,42,49,53,54	-0.02	-0.12	-0.22	-0.55	-0.22	-0.73	0.08	0.93	-0.15	-0.62	0.07	0.05	0.40	1.02	-1.55	-0.77	-0.72	**-3.12**
4223	2,4,7,11,17,19,22,24,29,36,38,40,42,46,48,51	1.28	0.14	1.00	0.90	-0.89	0.55	1.28	0.60	-0.07	-0.71	1.45	1.01	1.26	1.02	-1.55	-0.77	1.40	**7.91**
4224	2,4,7,11,17,19,22,24,29,36,38,40,42,46,48,52,53,54	0.95	0.14	0.65	0.52	-0.35	-0.30	1.04	0.77	0.05	-0.71	1.13	0.05	0.78	1.02	-1.55	-0.77	1.40	**4.82**
4225	2,4,7,11,17,19,22,24,29,36,38,40,42,47,50,54	0.07	0.40	-0.20	-0.53	0.53	0.55	0.32	0.77	0.76	-0.48	-0.15	-0.90	0.44	1.02	-1.55	-0.77	1.40	**1.68**
4226	2,4,7,11,17,19,22,24,29,36,38,40,42,49,53,54	0.02	0.14	-0.22	-0.58	0.50	-0.30	0.08	1.29	0.18	-0.60	0.03	0.05	0.41	1.02	-1.55	-0.77	1.40	**1.10**
4227	2,4,7,11,17,19,22,24,29,36,38,41,44,55	0.53	-0.64	0.53	-0.82	0.37	-0.73	0.08	0.60	0.50	-0.55	0.32	-0.90	0.93	1.02	-1.55	-0.77	1.40	**0.33**
4228	2,4,7,11,17,19,22,24,29,36,38,41,45,55	2.24	0.40	1.37	0.20	-0.12	1.41	1.28	1.17	1.83	0.26	1.03	-0.90	1.81	1.02	-1.55	-0.77	1.40	**12.07**
4229	2,4,7,11,17,19,22,24,29,36,38,43,47,46,48,51	1.28	-0.12	1.00	0.98	-0.85	0.55	1.28	0.60	-0.07	-0.67	1.46	1.01	1.27	1.02	-1.55	-0.77	1.40	**7.82**
4230	2,4,7,11,17,19,22,24,29,36,38,43,47,46,48,52,53,54	0.95	-0.12	0.65	0.59	-0.31	-0.30	1.04	0.77	0.05	-0.67	1.14	0.05	0.78	1.02	-1.55	-0.77	1.40	**4.73**
4231	2,4,7,11,17,19,22,24,29,36,38,43,47,49,53,54	0.02	0.14	-0.22	-0.50	0.54	-0.30	0.08	1.29	0.18	-0.57	0.04	0.05	0.41	1.02	-1.55	-0.77	1.40	**1.27**
4232	2,4,7,11,17,19,22,24,29,36,38,43,50,54	-0.07	-0.38	-0.24	-0.62	0.48	-0.30	0.32	0.77	0.76	-0.53	-0.21	-0.90	0.37	1.02	-1.55	-0.77	1.40	**-0.45**
4233	2,4,7,11,17,19,22,24,29,39,41,40,42,46,48,51	1.48	-0.12	1.84	0.56	-2.22	-0.73	1.99	0.37	-0.42	0.61	0.18	1.01	1.74	1.02	-1.55	-0.77	-0.72	**4.26**
4234	2,4,7,11,17,19,22,24,29,39,41,40,42,46,48,52,53,54	1.15	-0.12	1.48	0.17	-1.69	-1.59	1.75	0.55	-0.30	0.61	-0.13	0.05	1.26	1.02	-1.55	-0.77	-0.72	**1.17**
4235	2,4,7,11,17,19,22,24,29,39,41,40,42,47,50,54	0.27	0.14	0.63	-0.88	-0.81	-0.73	1.04	0.55	0.40	0.85	-1.42	-0.90	0.92	1.02	-1.55	-0.77	-0.72	**-1.97**
4236	2,4,7,11,17,19,22,24,29,39,41,40,42,49,53,54	0.22	-0.12	0.61	-0.93	-0.84	-1.59	0.80	1.07	-0.18	0.72	-1.24	0.05	0.88	1.02	-1.55	-0.77	-0.72	**-2.55**
4237	2,4,7,11,17,19,22,24,29,39,41,43,47,46,48,51	1.48	0.14	1.84	0.64	-2.18	-0.73	1.99	0.37	-0.42	0.65	0.19	1.01	1.75	1.02	-1.55	-0.77	-0.72	**4.69**
4238	2,4,7,11,17,19,22,24,29,39,41,43,47,46,48,52,53,54	1.15	0.14	1.48	0.25	-1.64	-1.59	1.75	0.55	-0.30	0.65	-0.13	0.05	1.26	1.02	-1.55	-0.77	-0.72	**1.60**
4239	2,4,7,11,17,19,22,24,29,39,41,43,47,49,53,54	0.23	0.40	0.61	-0.85	-0.79	-1.59	0.80	1.07	-0.18	0.75	-1.23	0.05	0.89	1.02	-1.55	-0.77	-0.72	**-1.86**
4240	2,4,7,11,17,19,22,24,29,39,41,43,50,54	0.13	-0.12	0.59	-0.97	-0.86	-1.59	1.04	0.55	0.40	0.79	-1.48	-0.90	0.85	1.02	-1.55	-0.77	-0.72	**-3.58**
4241	2,4,7,11,17,19,22,24,29,39,44,55	-0.81	-1.41	0.94	-1.16	-0.96	-2.02	-0.16	0.37	0.15	0.77	-1.63	-0.90	0.78	1.02	-1.55	-0.77	-0.72	**-8.06**
4242	2,4,7,11,17,19,22,24,29,39,45,55	0.89	-0.38	1.78	-0.14	-1.45	0.13	1.04	0.95	1.47	1.58	-0.92	-0.90	1.66	1.02	-1.55	-0.77	-0.72	**3.68**
4243	2,4,7,11,17,19,22,25,29,36,35,37,40,41,44,55	0.41	-0.64	0.51	-1.22	-0.01	-0.30	0.32	0.25	-0.26	-0.49	0.03	-0.90	0.93	1.05	-1.55	-0.77	-0.72	**-3.36**
4244	2,4,7,11,17,19,22,25,29,36,35,37,40,41,45,55	2.11	0.40	1.35	-0.20	-0.50	1.84	1.52	0.83	1.07	0.32	0.74	-0.90	1.81	1.05	-1.55	-0.77	-0.72	**8.37**
4245	2,4,7,11,17,19,22,25,29,36,35,37,40,43,47,46,48,51	1.16	0.40	0.98	0.58	-1.23	0.98	1.52	0.25	-0.83	-0.62	1.16	1.01	1.27	1.05	-1.55	-0.77	-0.72	**4.64**
4246	2,4,7,11,17,19,22,25,29,36,35,37,40,43,47,46,48,52,53,54	0.83	0.40	0.63	0.19	-0.69	0.13	1.28	0.43	-0.71	-0.62	0.85	0.05	0.79	1.05	-1.55	-0.77	-0.72	**1.55**
4247	2,4,7,11,17,19,22,25,29,36,35,37,40,43,47,49,53,54	-0.10	0.66	-0.24	-0.91	0.16	0.13	0.32	0.95	-0.59	-0.51	-0.26	0.05	0.41	1.05	-1.55	-0.77	-0.72	**-1.92**
4248	2,4,7,11,17,19,22,25,29,36,35,37,40,43,50,54	-0.20	0.14	-0.26	-1.03	0.09	0.13	0.56	0.43	0.00	-0.47	-0.50	-0.90	0.37	1.05	-1.55	-0.77	-0.72	**-3.63**
4249	2,4,7,11,17,19,22,25,29,36,35,37,42,46,48,51	1.02	-0.38	0.95	0.50	-1.27	0.13	1.52	0.25	-0.83	-0.65	1.13	1.01	1.20	1.05	-1.55	-0.77	-0.72	**2.56**
4250	2,4,7,11,17,19,22,25,29,36,35,37,42,46,48,52,53,54	0.70	-0.38	0.59	0.11	-0.74	-0.73	1.28	0.43	-0.71	-0.65	0.81	0.05	0.71	1.05	-1.55	-0.77	-0.72	**-0.52**
4251	2,4,7,11,17,19,22,25,29,36,35,37,42,47,50,54	-0.19	-0.12	-0.26	-0.94	0.14	0.13	0.56	0.43	0.00	-0.42	-0.48	-0.90	0.38	1.05	-1.55	-0.77	-0.72	**-3.66**
4252	2,4,7,11,17,19,22,25,29,36,35,37,42,49,53,54	-0.23	-0.38	-0.28	-0.99	0.12	-0.73	0.32	0.95	-0.59	-0.55	-0.29	0.05	0.34	1.05	-1.55	-0.77	-0.72	**-4.25**
4253	2,4,7,11,17,19,22,25,29,36,38,40,42,46,48,51	1.06	-0.12	0.94	0.47	-0.56	0.55	1.52	0.62	-0.51	-0.64	1.09	1.01	1.20	1.05	-1.55	-0.77	1.40	**6.78**
4254	2,4,7,11,17,19,22,25,29,36,38,40,42,46,48,52,53,54	0.74	-0.12	0.59	0.08	-0.02	-0.30	1.28	0.80	-0.39	-0.64	0.77	0.05	0.72	1.05	-1.55	-0.77	1.40	**3.69**
4255	2,4,7,11,17,19,22,25,29,36,38,40,42,47,50,54	-0.15	0.14	-0.26	-0.97	0.86	0.55	0.56	0.80	0.32	-0.41	-0.52	-0.90	0.38	1.05	-1.55	-0.77	1.40	**0.55**
4256	2,4,7,11,17,19,22,25,29,36,38,40,42,49,53,54	-0.19	-0.12	-0.28	-1.02	0.83	-0.30	0.32	1.32	-0.26	-0.53	-0.34	0.05	0.35	1.05	-1.55	-0.77	1.40	**-0.04**
4257	2,4,7,11,17,19,22,25,29,36,38,41,44,55	0.32	-0.90	0.47	-1.25	0.71	-0.73	0.32	0.62	0.06	-0.48	-0.04	-0.90	0.87	1.05	-1.55	-0.77	1.40	**-0.80**
4258	2,4,7,11,17,19,22,25,29,36,38,41,45,55	2.02	0.14	1.31	-0.23	0.21	1.41	1.52	1.19	1.39	0.33	0.66	-0.90	1.75	1.05	-1.55	-0.77	1.40	**10.94**
4259	2,4,7,11,17,19,22,25,29,36,38,43,47,46,48,51	1.06	-0.38	0.95	0.55	-0.51	0.55	1.52	0.62	-0.51	-0.60	1.09	1.01	1.21	1.05	-1.55	-0.77	1.40	**6.68**
4260	2,4,7,11,17,19,22,25,29,36,38,43,47,46,48,52,53,54	0.74	-0.38	0.59	0.16	0.02	-0.30	1.28	0.80	-0.39	-0.60	0.77	0.05	0.72	1.05	-1.55	-0.77	1.40	**3.60**
4261	2,4,7,11,17,19,22,25,29,36,38,43,47,49,53,54	-0.19	-0.12	-0.28	-0.94	0.88	-0.30	0.32	1.32	-0.26	-0.50	-0.33	0.05	0.35	1.05	-1.55	-0.77	1.40	**0.13**
4262	2,4,7,11,17,19,22,25,29,36,38,43,50,54	-0.29	-0.64	-0.30	-1.06	0.81	-0.30	0.56	0.80	0.32	-0.46	-0.57	-0.90	0.31	1.05	-1.55	-0.77	1.40	**-1.59**
4263	2,4,7,11,17,19,22,25,29,39,41,40,42,46,48,51	1.26	-0.38	1.78	0.13	-1.89	-0.73	2.23	0.39	-0.86	0.68	-0.18	1.01	1.68	1.05	-1.55	-0.77	-0.72	**3.13**
4264	2,4,7,11,17,19,22,25,29,39,41,40,42,46,48,52,53,54	0.94	-0.38	1.42	-0.26	-1.35	-1.59	1.99	0.57	-0.74	0.68	-0.50	0.05	1.20	1.05	-1.55	-0.77	-0.72	**0.04**
4265	2,4,7,11,17,19,22,25,29,39,41,40,42,47,50,54	0.05	-0.12	0.57	-1.31	-0.47	-0.73	1.28	0.57	-0.03	0.92	-1.79	-0.90	0.86	1.05	-1.55	-0.77	-0.72	**-3.10**
4266	2,4,7,11,17,19,22,25,29,39,41,40,42,49,53,54	0.01	-0.38	0.55	-1.36	-0.50	-1.59	1.04	1.09	-0.62	0.79	-1.60	0.05	0.83	1.05	-1.55	-0.77	-0.72	**-3.68**
4267	2,4,7,11,17,19,22,25,29,39,41,43,47,46,48,51	1.27	-0.12	1.78	0.21	-1.85	-0.73	2.23	0.39	-0.86	0.72	-0.18	1.01	1.69	1.05	-1.55	-0.77	-0.72	**3.56**
4268	2,4,7,11,17,19,22,25,29,39,41,43,47,46,48,52,53,54	0.94	-0.12	1.42	-0.18	-1.31	-1.59	1.99	0.57	-0.74	0.72	-0.49	0.05	1.20	1.05	-1.55	-0.77	-0.72	**0.47**
4269	2,4,7,11,17,19,22,25,29,39,41,43,47,49,53,54	0.01	0.14	0.56	-1.28	-0.46	-1.59	1.04	1.09	-0.62	0.82	-1.60	0.05	0.83	1.05	-1.55	-0.77	-0.72	**-3.00**
4270	2,4,7,11,17,19,22,25,29,39,41,43,50,54	-0.09	-0.38	0.54	-1.40	-0.52	-1.59	1.28	0.57	-0.03	0.86	-1.84	-0.90	0.79	1.05	-1.55	-0.77	-0.72	**-4.71**
4271	2,4,7,11,17,19,22,25,29,39,44,55	-1.02	-1.67	0.89	-1.59	-0.63	-2.02	0.08	0.39	-0.29	0.84	-1.99	-0.90	0.72	1.05	-1.55	-0.77	-0.72	**-9.19**
4272	2,4,7,11,17,19,22,25,29,39,45,55	0.68	-0.64	1.73	-0.57	-1.12	0.13	1.28	0.97	1.03	1.65	-1.29	-0.90	1.60	1.05	-1.55	-0.77	-0.72	**2.55**
4273	2,4,7,11,17,21,27,26,30,32,46,47,50,54	0.95	0.66	0.33	-0.56	0.31	1.84	1.99	0.17	1.82	-0.61	1.23	-0.90	0.97	-0.23	-1.55	1.14	0.98	**8.53**
4274	2,4,7,11,17,21,27,26,30,32,46,49,53,54	0.91	0.40	0.31	-0.61	0.29	0.98	1.75	0.69	1.24	-0.74	1.39	0.05	0.94	-0.23	-1.55	1.14	0.98	**7.93**
4275	2,4,7,11,17,21,27,26,30,32,48,51	0.41	-0.12	1.05	-1.20	-1.67	1.84	2.47	-0.01	0.99	-0.84	0.88	-0.90	1.45	-0.23	-1.55	1.14	0.98	**4.68**
4276	2,4,7,11,17,21,27,26,30,32,48,52,53,54	0.08	-0.12	0.70	-1.59	-1.13	0.98	2.23	0.17	1.12	-0.84	0.56	-1.85	0.96	-0.23	-1.55	1.14	0.98	**1.59**
4277	2,4,7,11,17,21,27,26,31,34,35,37,40,41,44,55	-0.87	-0.64	-0.57	-0.54	0.58	-0.30	-0.64	0.59	0.22	-1.23	0.42	-0.90	-0.56	-0.96	-1.55	1.14	-0.72	**-6.54**
4278	2,4,7,11,17,21,27,26,31,34,35,37,40,41,45,55	0.83	0.40	0.27	0.48	0.09	1.84	0.56	1.16	1.54	-0.42	1.13	-0.90	0.32	-0.96	-1.55	1.14	-0.72	**5.20**
4279	2,4,7,11,17,21,27,26,31,34,35,37,40,43,47,46,48,51	-0.13	0.40	-0.09	1.25	-0.64	0.98	0.56	0.59	-0.36	-1.35	1.56	1.01	-0.22	-0.96	-1.55	1.14	-0.72	**1.46**
4280	2,4,7,11,17,21,27,26,31,34,35,37,40,43,47,46,48,52,53,54	-0.46	0.40	-0.45	0.87	-0.10	0.13	0.32	0.76	-0.23	-1.35	1.24	0.05	-0.71	-0.96	-1.55	1.14	-0.72	**-1.63**
4281	2,4,7,11,17,21,27,26,31,34,35,37,40,43,47,49,53,54	-1.38	0.66	-1.32	-0.23	0.75	0.13	-0.64	1.28	-0.11	-1.25	0.13	0.05	-1.08	-0.96	-1.55	1.14	-0.72	**-5.09**
4282	2,4,7,11,17,21,27,26,31,34,35,37,40,43,50,54	-1.48	0.14	-1.33	-0.35	0.69	0.13	-0.40	0.76	0.47	-1.20	-0.11	-0.90	-1.12	-0.96	-1.55	1.14	-0.72	**-6.81**
4283	2,4,7,11,17,21,27,26,31,34,35,37,42,46,48,51	-0.26	-0.38	-0.13	1.17	-0.68	0.13	0.56	0.59	-0.36	-1.39	1.52	1.01	-0.30	-0.96	-1.55	1.14	-0.72	**-0.61**
4284	2,4,7,11,17,21,27,26,31,34,35,37,42,46,48,52,53,54	-0.59	-0.38	-0.49	0.79	-0.14	-0.73	0.32	0.76	-0.23	-1.39	1.20	0.05	-0.78	-0.96	-1.55	1.14	-0.72	**-3.70**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
4285	2,4,7,11,17,21,27,26,31,34,35,37,42,47,50,54	-1.47	-0.12	-1.33	-0.26	0.74	0.13	-0.40	0.76	0.47	-1.15	-0.09	-0.90	-1.12	-0.96	-1.55	1.14	-0.72	**-6.84**
4286	2,4,7,11,17,21,27,26,31,34,35,37,42,49,53,54	-1.52	-0.38	-1.35	-0.31	0.71	-0.73	-0.64	1.28	-0.11	-1.28	0.10	0.05	-1.15	-0.96	-1.55	1.14	-0.72	**-7.42**
4287	2,4,7,11,17,21,27,26,31,34,36,39,41,40,42,46,48,51	1.07	0.40	1.00	1.43	-1.30	0.13	1.28	0.73	-0.39	0.59	0.45	1.01	0.74	-0.96	-1.55	1.14	-0.72	**5.04**
4288	2,4,7,11,17,21,27,26,31,34,36,39,41,40,42,46,48,52,53,54	0.74	0.40	0.64	1.04	-0.76	-0.73	1.04	0.91	-0.26	0.59	0.13	0.05	0.26	-0.96	-1.55	1.14	-0.72	**1.96**
4289	2,4,7,11,17,21,27,26,31,34,36,39,41,40,42,47,50,54	-0.14	0.66	-0.21	0.00	0.12	0.13	0.32	0.91	0.44	0.82	-1.15	-0.90	-0.08	-0.96	-1.55	1.14	-0.72	**-1.18**
4290	2,4,7,11,17,21,27,26,31,34,36,39,41,40,42,49,53,54	-0.18	0.40	-0.23	-0.06	0.09	-0.73	0.08	1.43	-0.14	0.69	-0.97	0.05	-0.11	-0.96	-1.55	1.14	-0.72	**-1.77**
4291	2,4,7,11,17,21,27,26,31,34,36,39,41,43,47,46,48,51	1.07	0.66	1.00	1.51	-1.26	0.13	1.28	0.73	-0.39	0.62	0.46	1.01	0.75	-0.96	-1.55	1.14	-0.72	**5.47**
4292	2,4,7,11,17,21,27,26,31,34,36,39,41,43,47,46,48,52,53,54	0.75	0.66	0.64	1.12	-0.72	-0.73	1.04	0.91	-0.26	0.62	0.14	0.05	0.26	-0.96	-1.55	1.14	-0.72	**2.39**
4293	2,4,7,11,17,21,27,26,31,34,36,39,41,43,47,49,53,54	-0.18	0.92	-0.22	0.02	0.13	-0.73	0.08	1.43	-0.14	0.73	-0.97	0.05	-0.11	-0.96	-1.55	1.14	-0.72	**-1.08**
4294	2,4,7,11,17,21,27,26,31,34,36,39,41,43,50,54	-0.28	0.40	-0.24	-0.09	0.07	-0.73	0.32	0.91	0.44	0.77	-1.21	-0.90	-0.15	-0.96	-1.55	1.14	-0.72	**-2.80**
4295	2,4,7,11,17,21,27,26,31,34,36,39,44,55	-1.21	-0.90	0.11	-0.29	-0.04	-1.16	-0.87	0.73	0.19	0.74	-1.36	-0.90	-0.21	-0.96	-1.55	1.14	-0.72	**-7.27**
4296	2,4,7,11,17,21,27,26,31,34,36,39,45,55	0.49	0.14	0.95	0.73	-0.53	0.98	0.32	1.31	1.51	1.55	-0.65	-0.90	0.66	-0.96	-1.55	1.14	-0.72	**4.46**
4297	2,4,7,11,17,21,27,26,31,34,38,40,42,46,48,51	-0.22	-0.38	-0.13	1.14	0.04	0.55	0.56	0.95	-0.03	-1.37	1.48	1.01	-0.29	-0.96	-1.55	1.14	1.40	**3.34**
4298	2,4,7,11,17,21,27,26,31,34,38,40,42,46,48,52,53,54	-0.55	-0.38	-0.49	0.76	0.57	-0.30	0.32	1.13	0.09	-1.37	1.16	0.05	-0.77	-0.96	-1.55	1.14	1.40	**0.26**
4299	2,4,7,11,17,21,27,26,31,34,38,40,42,47,50,54	-1.43	-0.12	-1.33	-0.29	1.45	0.55	-0.40	1.13	0.79	-1.14	-0.13	-0.90	-1.11	-0.96	-1.55	1.14	1.40	**-2.88**
4300	2,4,7,11,17,21,27,26,31,34,38,40,42,49,53,54	-1.48	-0.38	-1.35	-0.34	1.42	-0.30	-0.64	1.65	0.21	-1.27	0.06	0.05	-1.15	-0.96	-1.55	1.14	1.40	**-3.47**
4301	2,4,7,11,17,21,27,26,31,34,38,41,44,55	-0.97	-1.15	-0.60	-0.57	1.30	-0.73	-0.64	0.95	0.54	-1.22	0.35	-0.90	-0.62	-0.96	-1.55	1.14	1.40	**-4.23**
4302	2,4,7,11,17,21,27,26,31,34,38,41,45,55	0.74	-0.12	0.24	0.45	0.81	1.41	0.56	1.53	1.86	-0.41	1.05	-0.90	0.25	-0.96	-1.55	1.14	1.40	**7.50**
4303	2,4,7,11,17,21,27,26,31,34,38,43,47,46,48,51	-0.22	-0.64	-0.13	1.22	0.08	0.55	0.56	0.95	-0.03	-1.34	1.49	1.01	-0.29	-0.96	-1.55	1.14	1.40	**3.25**
4304	2,4,7,11,17,21,27,26,31,34,38,43,47,46,48,52,53,54	-0.55	-0.64	-0.48	0.84	0.62	-0.30	0.32	1.13	0.09	-1.34	1.17	0.05	-0.77	-0.96	-1.55	1.14	1.40	**0.16**
4305	2,4,7,11,17,21,27,26,31,34,38,43,47,49,53,54	-1.48	-0.38	-1.35	-0.26	1.47	-0.30	-0.64	1.65	0.21	-1.24	0.06	0.05	-1.14	-0.96	-1.55	1.14	1.40	**-3.30**
4306	2,4,7,11,17,21,27,26,31,34,38,43,50,54	-1.57	-0.90	-1.37	-0.38	1.40	-0.30	-0.40	1.13	0.79	-1.19	-0.18	-0.90	-1.19	-0.96	-1.55	1.14	1.40	**-5.02**
4307	2,4,7,11,17,21,27,26,33,37,40,41,44,55	-0.94	-1.67	-0.60	-0.56	0.22	-0.30	-0.40	0.59	-0.09	-1.21	0.37	-0.90	-0.58	-0.96	-1.55	1.14	-0.72	**-8.17**
4308	2,4,7,11,17,21,27,26,33,37,40,41,45,55	0.76	-0.64	0.24	0.45	-0.27	1.84	0.80	1.16	1.24	-0.40	1.08	-0.90	0.30	-0.96	-1.55	1.14	-0.72	**3.57**
4309	2,4,7,11,17,21,27,26,33,37,40,43,47,46,48,51	-0.20	-0.64	-0.12	1.23	-1.00	0.98	0.80	0.59	-0.66	-1.33	1.50	1.01	-0.24	-0.96	-1.55	1.14	-0.72	**-0.17**
4310	2,4,7,11,17,21,27,26,33,37,40,43,47,46,48,52,53,54	-0.52	-0.64	-0.48	0.85	-0.46	0.13	0.56	0.76	-0.54	-1.33	1.18	0.05	-0.73	-0.96	-1.55	1.14	-0.72	**-3.26**
4311	2,4,7,11,17,21,27,26,33,37,40,43,47,49,53,54	-1.45	-0.38	-1.35	-0.25	0.39	0.13	-0.40	1.28	-0.41	-1.23	0.08	0.05	-1.10	-0.96	-1.55	1.14	-0.72	**-6.73**
4312	2,4,7,11,17,21,27,26,33,37,40,43,50,54	-1.55	-0.90	-1.37	-0.37	0.33	0.13	-0.16	0.76	0.17	-1.19	-0.16	-0.90	-1.14	-0.96	-1.55	1.14	-0.72	**-8.44**
4313	2,4,7,11,17,21,27,26,33,37,42,46,48,51	-0.33	-1.41	-0.16	1.15	-1.04	0.13	0.80	0.59	-0.66	-1.37	1.47	1.01	-0.32	-0.96	-1.55	1.14	-0.72	**-2.25**
4314	2,4,7,11,17,21,27,26,33,37,42,46,48,52,53,54	-0.65	-1.41	-0.52	0.77	-0.50	-0.73	0.56	0.76	-0.54	-1.37	1.15	0.05	-0.80	-0.96	-1.55	1.14	-0.72	**-5.33**
4315	2,4,7,11,17,21,27,26,33,37,42,47,50,54	-1.54	-1.15	-1.36	-0.28	0.38	0.13	-0.16	0.76	0.17	-1.14	-0.14	-0.90	-1.14	-0.96	-1.55	1.14	-0.72	**-8.47**
4316	2,4,7,11,17,21,27,26,33,37,42,49,53,54	-1.58	-1.41	-1.38	-0.33	0.35	-0.73	-0.40	1.28	-0.41	-1.26	0.04	0.05	-1.17	-0.96	-1.55	1.14	-0.72	**-9.06**
4317	2,4,7,11,17,21,28,31,30,32,46,47,50,54	0.88	0.14	0.26	-0.53	0.52	1.84	1.99	0.17	1.47	-0.37	0.97	-0.90	0.88	-0.23	-1.55	-0.77	0.98	**5.73**
4318	2,4,7,11,17,21,28,31,30,32,46,49,53,54	0.83	-0.12	0.24	-0.58	0.49	0.98	1.75	0.69	0.89	-0.49	1.13	0.05	0.84	-0.23	-1.55	-0.77	0.98	**5.13**
4319	2,4,7,11,17,21,28,31,30,32,48,51	0.33	-0.64	0.98	-1.18	-1.46	1.84	2.47	-0.01	0.64	-0.60	0.62	-0.90	1.35	-0.23	-1.55	-0.77	0.98	**1.88**
4320	2,4,7,11,17,21,28,31,30,32,48,52,53,54	0.01	-0.64	0.63	-1.56	-0.92	0.98	2.23	0.17	0.76	-0.60	0.31	-1.85	0.87	-0.23	-1.55	-0.77	0.98	**-1.21**
4321	2,4,7,11,17,21,28,31,33,37,40,41,44,55	-1.01	-1.67	-0.67	-0.54	0.43	-0.30	-0.40	0.59	-0.44	-0.97	0.11	-0.90	-0.67	-0.96	-1.55	-0.77	-0.72	**-10.45**
4322	2,4,7,11,17,21,28,31,33,37,40,41,45,55	0.69	-0.64	0.17	0.48	-0.06	1.84	0.80	1.16	0.88	-0.16	0.82	-0.90	0.20	-0.96	-1.55	-0.77	-0.72	**1.28**
4323	2,4,7,11,17,21,28,31,33,37,40,43,47,46,48,51	-0.27	-0.64	-0.19	1.26	-0.79	0.98	0.80	0.59	-1.01	-1.09	1.25	1.01	-0.34	-0.96	-1.55	-0.77	-0.72	**-2.46**
4324	2,4,7,11,17,21,28,31,33,37,40,43,47,46,48,52,53,54	-0.59	-0.64	-0.55	0.87	-0.25	0.13	0.56	0.76	-0.89	-1.09	0.93	0.05	-0.82	-0.96	-1.55	-0.77	-0.72	**-5.54**
4325	2,4,7,11,17,21,28,31,33,37,40,43,47,49,53,54	-1.52	-0.38	-1.42	-0.23	0.60	0.13	-0.40	1.28	-0.77	-0.99	-0.18	0.05	-1.19	-0.96	-1.55	-0.77	-0.72	**-9.01**
4326	2,4,7,11,17,21,28,31,33,37,40,43,50,54	-1.62	-0.90	-1.44	-0.35	0.53	0.13	-0.16	0.76	-0.18	-0.94	-0.42	-0.90	-1.24	-0.96	-1.55	-0.77	-0.72	**-10.73**
4327	2,4,7,11,17,21,28,31,33,37,42,46,48,51	-0.40	-1.41	-0.23	1.18	-0.83	0.13	0.80	0.59	-1.01	-1.12	1.21	1.01	-0.41	-0.96	-1.55	-0.77	-0.72	**-4.53**
4328	2,4,7,11,17,21,28,31,33,37,42,46,48,52,53,54	-0.73	-1.41	-0.59	0.79	-0.30	-0.73	0.56	0.76	-0.89	-1.12	0.89	0.05	-0.90	-0.96	-1.55	-0.77	-0.72	**-7.61**
4329	2,4,7,11,17,21,28,31,33,37,42,47,50,54	-1.61	-1.15	-1.43	-0.25	0.58	0.13	-0.16	0.76	-0.18	-0.89	-0.40	-0.90	-1.23	-0.96	-1.55	-0.77	-0.72	**-10.75**
4330	2,4,7,11,17,21,28,31,33,37,42,49,53,54	-1.65	-1.41	-1.45	-0.31	0.56	-0.73	-0.40	1.28	-0.77	-1.02	-0.21	0.05	-1.27	-0.96	-1.55	-0.77	-0.72	**-11.34**
4331	2,4,7,11,17,21,28,34,35,37,40,41,44,55	-1.04	-1.67	-0.66	-0.52	0.79	-0.30	-0.64	0.59	-0.14	-1.01	0.09	-0.90	-0.72	-0.96	-1.55	-0.77	-0.72	**-10.14**
4332	2,4,7,11,17,21,28,34,35,37,40,41,45,55	0.66	-0.64	0.18	0.50	0.29	1.84	0.56	1.16	1.19	-0.20	0.80	-0.90	0.16	-0.96	-1.55	-0.77	-0.72	**1.59**
4333	2,4,7,11,17,21,28,34,35,37,40,43,47,46,48,51	-0.30	-0.64	-0.19	1.28	-0.43	0.98	0.56	0.59	-0.71	-1.13	1.22	1.01	-0.38	-0.96	-1.55	-0.77	-0.72	**-2.15**
4334	2,4,7,11,17,21,28,34,35,37,40,43,47,46,48,52,53,54	-0.62	-0.64	-0.54	0.89	0.11	0.13	0.32	0.76	-0.59	-1.13	0.90	0.05	-0.87	-0.96	-1.55	-0.77	-0.72	**-5.23**
4335	2,4,7,11,17,21,28,34,35,37,40,43,47,49,53,54	-1.55	-0.38	-1.41	-0.20	0.96	0.13	-0.64	1.28	-0.46	-1.03	-0.20	0.05	-1.24	-0.96	-1.55	-0.77	-0.72	**-8.70**
4336	2,4,7,11,17,21,28,34,35,37,40,43,50,54	-1.65	-0.90	-1.43	-0.32	0.89	0.13	-0.40	0.76	0.12	-0.99	-0.44	-0.90	-1.28	-0.96	-1.55	-0.77	-0.72	**-10.42**
4337	2,4,7,11,17,21,28,34,35,37,42,46,48,51	-0.43	-1.41	-0.22	1.20	-0.48	0.13	0.56	0.59	-0.71	-1.17	1.18	1.01	-0.46	-0.96	-1.55	-0.77	-0.72	**-4.22**
4338	2,4,7,11,17,21,28,34,35,37,42,46,48,52,53,54	-0.76	-1.41	-0.58	0.82	0.06	-0.73	0.32	0.76	-0.59	-1.17	0.86	0.05	-0.94	-0.96	-1.55	-0.77	-0.72	**-7.31**
4339	2,4,7,11,17,21,28,34,35,37,42,47,50,54	-1.64	-1.15	-1.43	-0.23	0.94	0.13	-0.40	0.76	0.12	-0.93	-0.42	-0.90	-1.28	-0.96	-1.55	-0.77	-0.72	**-10.45**
4340	2,4,7,11,17,21,28,34,35,37,42,49,53,54	-1.68	-1.41	-1.45	-0.28	0.91	-0.73	-0.64	1.28	-0.46	-1.06	-0.24	0.05	-1.31	-0.96	-1.55	-0.77	-0.72	**-11.03**
4341	2,4,7,11,17,21,28,34,36,39,41,40,42,46,48,51	0.90	-0.64	0.90	1.46	-1.09	0.13	1.28	0.73	-0.74	0.81	0.12	1.01	0.59	-0.96	-1.55	-0.77	-0.72	**1.44**
4342	2,4,7,11,17,21,28,34,36,39,41,40,42,46,48,52,53,54	0.58	-0.64	0.55	1.07	-0.56	-0.73	1.04	0.91	-0.62	0.81	-0.20	0.05	0.10	-0.96	-1.55	-0.77	-0.72	**-1.65**
4343	2,4,7,11,17,21,28,34,36,39,41,40,42,47,50,54	-0.31	-0.38	-0.30	0.02	0.32	0.13	0.32	0.91	0.09	1.04	-1.49	-0.90	-0.23	-0.96	-1.55	-0.77	-0.72	**-4.79**
4344	2,4,7,11,17,21,28,34,36,39,41,40,42,49,53,54	-0.35	-0.64	-0.32	-0.03	0.30	-0.73	0.08	1.43	-0.49	0.91	-1.31	0.05	-0.27	-0.96	-1.55	-0.77	-0.72	**-5.37**
4345	2,4,7,11,17,21,28,34,36,39,41,43,47,46,48,51	0.91	-0.38	0.90	1.54	-1.05	0.13	1.28	0.73	-0.74	0.84	0.12	1.01	0.59	-0.96	-1.55	-0.77	-0.72	**1.87**
4346	2,4,7,11,17,21,28,34,36,39,41,43,47,46,48,52,53,54	0.58	-0.38	0.55	1.15	-0.51	-0.73	1.04	0.91	-0.62	0.84	-0.20	0.05	0.11	-0.96	-1.55	-0.77	-0.72	**-1.22**
4347	2,4,7,11,17,21,28,34,36,39,41,43,47,49,53,54	-0.35	-0.12	-0.32	0.05	0.34	-0.73	0.08	1.43	-0.49	0.94	-1.30	0.05	-0.27	-0.96	-1.55	-0.77	-0.72	**-4.69**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
4348	2,4,7,11,17,21,28,34,36,39,41,43,50,54	-0.45	-0.64	-0.34	-0.07	0.27	-0.73	0.32	0.91	0.09	0.99	-1.54	-0.90	-0.31	-0.96	-1.55	-0.77	-0.72	**-6.40**
4349	2,4,7,11,17,21,28,34,36,39,44,55	-1.38	-1.93	0.01	-0.26	0.17	-1.16	-0.87	0.73	-0.17	0.96	-1.70	-0.90	-0.37	-0.96	-1.55	-0.77	-0.72	**-10.88**
4350	2,4,7,11,17,21,28,34,36,39,45,55	0.32	-0.90	0.85	0.76	-0.32	0.98	0.32	1.31	1.16	1.77	-0.99	-0.90	0.50	-0.96	-1.55	-0.77	-0.72	**0.86**
4351	2,4,7,11,17,21,28,34,38,40,42,46,48,51	-0.39	-1.41	-0.23	1.17	0.24	0.55	0.56	0.95	-0.39	-1.15	1.14	1.01	-0.45	-0.96	-1.55	-0.77	1.40	**-0.27**
4352	2,4,7,11,17,21,28,34,38,40,42,46,48,52,53,54	-0.72	-1.41	-0.58	0.78	0.78	-0.30	0.32	1.13	-0.27	-1.15	0.83	0.05	-0.93	-0.96	-1.55	-0.77	1.40	**-3.35**
4353	2,4,7,11,17,21,28,34,38,40,42,47,50,54	-1.60	-1.15	-1.43	-0.26	1.66	0.55	-0.40	1.13	0.44	-0.92	-0.46	-0.90	-1.27	-0.96	-1.55	-0.77	1.40	**-6.49**
4354	2,4,7,11,17,21,28,34,38,40,42,49,53,54	-1.64	-1.41	-1.45	-0.32	1.63	-0.30	-0.64	1.65	-0.14	-1.05	-0.28	0.05	-1.30	-0.96	-1.55	-0.77	1.40	**-7.08**
4355	2,4,7,11,17,21,28,34,38,41,44,55	-1.13	-2.19	-0.70	-0.55	1.50	-0.73	-0.64	0.95	0.19	-1.00	0.01	-0.90	-0.78	-0.96	-1.55	-0.77	1.40	**-7.84**
4356	2,4,7,11,17,21,28,34,38,41,45,55	0.57	-1.15	0.14	0.47	1.01	1.41	0.56	1.53	1.51	-0.19	0.72	-0.90	0.10	-0.96	-1.55	-0.77	1.40	**3.90**
4357	2,4,7,11,17,21,28,34,38,43,47,46,48,51	-0.39	-1.67	-0.22	1.25	0.29	0.55	0.56	0.95	-0.39	-1.12	1.15	1.01	-0.44	-0.96	-1.55	-0.77	1.40	**-0.36**
4358	2,4,7,11,17,21,28,34,38,43,47,46,48,52,53,54	-0.71	-1.67	-0.58	0.86	0.82	-0.30	0.32	1.13	-0.27	-1.12	0.83	0.05	-0.93	-0.96	-1.55	-0.77	1.40	**-3.44**
4359	2,4,7,11,17,21,28,34,38,43,47,49,53,54	-1.64	-1.41	-1.45	-0.24	1.67	-0.30	-0.64	1.65	-0.14	-1.02	-0.27	0.05	-1.30	-0.96	-1.55	-0.77	1.40	**-6.91**
4360	2,4,7,11,17,21,28,34,38,43,50,54	-1.74	-1.93	-1.47	-0.35	1.61	-0.30	-0.40	1.13	0.44	-0.97	-0.52	-0.90	-1.34	-0.96	-1.55	-0.77	1.40	**-8.63**
4361	2,4,7,9,10,12,14,30,31,34,35,37,40,41,44,55	0.63	-1.67	0.47	0.72	1.30	0.13	0.32	-0.12	-0.84	0.46	0.39	-0.90	0.22	-0.07	-1.55	-0.77	-0.72	**-2.00**
4362	2,4,7,9,10,12,14,30,31,34,35,37,40,41,45,55	2.33	-0.64	1.31	1.74	0.81	2.27	1.52	0.46	0.49	1.27	1.10	-0.90	1.10	-0.07	-1.55	-0.77	-0.72	**9.73**
4363	2,4,7,9,10,12,14,30,31,34,35,37,40,43,47,46,48,51	1.37	-0.64	0.94	2.52	0.08	1.41	1.52	-0.12	-1.41	0.34	1.52	1.01	0.56	-0.07	-1.55	-0.77	-0.72	**5.99**
4364	2,4,7,9,10,12,14,30,31,34,35,37,40,43,47,46,48,52,53,54	1.05	-0.64	0.59	2.13	0.62	0.55	1.28	0.06	-1.29	0.34	1.21	0.05	0.07	-0.07	-1.55	-0.77	-0.72	**2.91**
4365	2,4,7,9,10,12,14,30,31,34,35,37,40,43,47,49,53,54	0.12	-0.38	-0.28	1.03	1.47	0.55	0.32	0.58	-1.16	0.45	0.10	0.05	-0.30	-0.07	-1.55	-0.77	-0.72	**-0.56**
4366	2,4,7,9,10,12,14,30,31,34,35,37,40,43,50,54	0.02	-0.90	-0.30	0.91	1.41	0.55	0.56	0.06	-0.58	0.49	-0.14	-0.90	-0.34	-0.07	-1.55	-0.77	-0.72	**-2.28**
4367	2,4,7,9,10,12,14,30,31,34,35,37,42,46,48,51	1.24	-1.41	0.91	2.44	0.04	0.55	1.52	-0.12	-1.41	0.31	1.49	1.01	0.48	-0.07	-1.55	-0.77	-0.72	**3.92**
4368	2,4,7,9,10,12,14,30,31,34,35,37,42,46,48,52,53,54	0.91	-1.41	0.55	2.05	0.58	-0.30	1.28	0.06	-1.29	0.31	1.17	0.05	0.00	-0.07	-1.55	-0.77	-0.72	**0.84**
4369	2,4,7,9,10,12,14,30,31,34,35,37,42,47,50,54	0.03	-1.15	-0.30	1.00	1.46	0.55	0.56	0.06	-0.58	0.54	-0.12	-0.90	-0.34	-0.07	-1.55	-0.77	-0.72	**-2.30**
4370	2,4,7,9,10,12,14,30,31,34,35,37,42,49,53,54	-0.01	-1.41	-0.32	0.95	1.43	-0.30	0.32	0.58	-1.16	0.41	0.07	0.05	-0.37	-0.07	-1.55	-0.77	-0.72	**-2.89**
4371	2,4,7,9,10,12,14,30,31,34,36,39,41,40,42,46,48,51	2.57	-0.64	2.03	2.69	-0.58	0.55	2.23	0.03	-1.44	2.28	0.42	1.01	1.53	-0.07	-1.55	-0.77	-0.72	**9.58**
4372	2,4,7,9,10,12,14,30,31,34,36,39,41,40,42,46,48,52,53,54	2.25	-0.64	1.68	2.30	-0.04	-0.30	1.99	0.21	-1.32	2.28	0.10	0.05	1.04	-0.07	-1.55	-0.77	-0.72	**6.49**
4373	2,4,7,9,10,12,14,30,31,34,36,39,41,40,42,47,50,54	1.36	-0.38	0.83	1.26	0.84	0.55	1.28	0.21	-0.61	2.51	-1.18	-0.90	0.71	-0.07	-1.55	-0.77	-0.72	**3.35**
4374	2,4,7,9,10,12,14,30,31,34,36,39,41,40,42,49,53,54	1.32	-0.64	0.81	1.20	0.81	-0.30	1.04	0.73	-1.19	2.39	-1.00	0.05	0.67	-0.07	-1.55	-0.77	-0.72	**2.77**
4375	2,4,7,9,10,12,14,30,31,34,36,39,41,43,47,46,48,51	2.58	-0.38	2.03	2.77	-0.53	0.55	2.23	0.03	-1.44	2.31	0.43	1.01	1.53	-0.07	-1.55	-0.77	-0.72	**10.01**
4376	2,4,7,9,10,12,14,30,31,34,36,39,41,43,47,46,48,52,53,54	2.25	-0.38	1.68	2.38	0.00	-0.30	1.99	0.21	-1.32	2.31	0.11	0.05	1.05	-0.07	-1.55	-0.77	-0.72	**6.92**
4377	2,4,7,9,10,12,14,30,31,34,36,39,41,43,47,49,53,54	1.32	-0.12	0.81	1.28	0.86	-0.30	1.04	0.73	-1.19	2.42	-1.00	0.05	0.67	-0.07	-1.55	-0.77	-0.72	**3.46**
4378	2,4,7,9,10,12,14,30,31,34,36,39,41,43,50,54	1.22	-0.64	0.79	1.17	0.79	-0.30	1.28	0.21	-0.61	2.46	-1.24	-0.90	0.63	-0.07	-1.55	-0.77	-0.72	**1.74**
4379	2,4,7,9,10,12,14,30,31,34,36,39,44,55	0.29	-1.93	1.14	0.97	0.68	-0.73	0.08	0.03	-0.87	2.44	-1.39	-0.90	0.57	-0.07	-1.55	-0.77	-0.72	**-2.74**
4380	2,4,7,9,10,12,14,30,31,34,36,39,45,55	1.99	-0.90	1.98	1.99	0.19	1.41	1.28	0.60	0.46	3.25	-0.68	-0.90	1.44	-0.07	-1.55	-0.77	-0.72	**9.00**
4381	2,4,7,9,10,12,14,30,31,34,38,40,42,46,48,51	1.28	-1.41	0.90	2.40	0.76	0.98	1.52	0.25	-1.09	0.32	1.45	1.01	0.49	-0.07	-1.55	-0.77	1.40	**7.88**
4382	2,4,7,9,10,12,14,30,31,34,38,40,42,46,48,52,53,54	0.95	-1.41	0.55	2.02	1.30	0.13	1.28	0.43	-0.96	0.32	1.13	0.05	0.01	-0.07	-1.55	-0.77	1.40	**4.79**
4383	2,4,7,9,10,12,14,30,31,34,38,40,42,47,50,54	0.07	-1.15	-0.30	0.97	2.18	0.98	0.56	0.43	-0.26	0.55	-0.16	-0.90	-0.33	-0.07	-1.55	-0.77	1.40	**1.65**
4384	2,4,7,9,10,12,14,30,31,34,38,40,42,49,53,54	0.03	-1.41	-0.32	0.92	2.15	0.13	0.32	0.95	-0.84	0.42	0.03	0.05	-0.36	-0.07	-1.55	-0.77	1.40	**1.06**
4385	2,4,7,9,10,12,14,30,31,34,38,41,44,55	0.54	-2.19	0.43	0.69	2.02	-0.30	0.32	0.25	-0.51	0.48	0.32	-0.90	0.16	-0.07	-1.55	-0.77	1.40	**0.30**
4386	2,4,7,9,10,12,14,30,31,34,38,41,45,55	2.24	-1.15	1.27	1.71	1.53	1.84	1.52	0.83	0.81	1.29	1.02	-0.90	1.04	-0.07	-1.55	-0.77	1.40	**12.04**
4387	2,4,7,9,10,12,14,30,31,34,38,43,47,46,48,51	1.28	-1.67	0.91	2.48	0.80	0.98	1.52	0.25	-1.09	0.35	1.45	1.01	0.50	-0.07	-1.55	-0.77	1.40	**7.78**
4388	2,4,7,9,10,12,14,30,31,34,38,43,47,46,48,52,53,54	0.96	-1.67	0.55	2.10	1.34	0.13	1.28	0.43	-0.96	0.35	1.13	0.05	0.01	-0.07	-1.55	-0.77	1.40	**4.70**
4389	2,4,7,9,10,12,14,30,31,34,38,43,47,49,53,54	0.03	-1.41	-0.32	1.00	2.19	0.13	0.32	0.95	-0.84	0.46	0.03	0.05	-0.36	-0.07	-1.55	-0.77	1.40	**1.23**
4390	2,4,7,9,10,12,14,30,31,34,38,43,50,54	-0.07	-1.93	-0.34	0.88	2.13	0.13	0.56	0.43	-0.26	0.50	-0.21	-0.90	-0.40	-0.07	-1.55	-0.77	1.40	**-0.49**
4391	2,4,7,9,10,12,14,30,33,37,40,41,44,55	0.56	-2.19	0.44	0.70	0.94	0.13	0.56	-0.12	-1.14	0.48	0.34	-0.90	0.20	-0.07	-1.55	-0.77	-0.72	**-3.12**
4392	2,4,7,9,10,12,14,30,33,37,40,41,45,55	2.26	-1.15	1.28	1.72	0.45	2.27	1.75	0.46	0.19	1.29	1.05	-0.90	1.08	-0.07	-1.55	-0.77	-0.72	**8.62**
4393	2,4,7,9,10,12,14,30,33,37,40,43,47,46,48,51	1.31	-1.15	0.91	2.49	-0.27	1.41	1.75	-0.12	-1.71	0.36	1.47	1.01	0.54	-0.07	-1.55	-0.77	-0.72	**4.88**
4394	2,4,7,9,10,12,14,30,33,37,40,43,47,46,48,52,53,54	0.98	-1.15	0.55	2.11	0.26	0.55	1.52	0.06	-1.59	0.36	1.15	0.05	0.05	-0.07	-1.55	-0.77	-0.72	**1.79**
4395	2,4,7,9,10,12,14,30,33,37,40,43,47,49,53,54	0.05	-0.90	-0.31	1.01	1.12	0.55	0.56	0.58	-1.46	0.46	0.05	0.05	-0.32	-0.07	-1.55	-0.77	-0.72	**-1.67**
4396	2,4,7,9,10,12,14,30,33,37,40,43,50,54	-0.05	-1.41	-0.33	0.89	1.05	0.55	0.80	0.06	-0.88	0.51	-0.19	-0.90	-0.36	-0.07	-1.55	-0.77	-0.72	**-3.39**
4397	2,4,7,9,10,12,14,30,33,37,42,46,48,51	1.18	-1.93	0.87	2.41	-0.32	0.55	1.75	-0.12	-1.71	0.33	1.43	1.01	0.46	-0.07	-1.55	-0.77	-0.72	**2.81**
4398	2,4,7,9,10,12,14,30,33,37,42,46,48,52,53,54	0.85	-1.93	0.52	2.03	0.22	-0.30	1.52	0.06	-1.59	0.33	1.11	0.05	-0.02	-0.07	-1.55	-0.77	-0.72	**-0.28**
4399	2,4,7,9,10,12,14,30,33,37,42,47,50,54	-0.04	-1.67	-0.33	0.98	1.10	0.55	0.80	0.06	-0.88	0.56	-0.17	-0.90	-0.36	-0.07	-1.55	-0.77	-0.72	**-3.42**
4400	2,4,7,9,10,12,14,30,33,37,42,49,53,54	-0.08	-1.93	-0.35	0.93	1.07	-0.30	0.56	0.58	-1.46	0.43	0.01	0.05	-0.39	-0.07	-1.55	-0.77	-0.72	**-4.01**
4401	2,4,7,9,10,12,14,32,46,47,50,54	1.58	-0.90	1.12	0.70	1.04	1.41	2.47	-0.53	0.77	1.08	0.28	-0.90	1.16	0.46	-1.55	-0.77	0.98	**8.40**
4402	2,4,7,9,10,12,14,32,46,49,53,54	1.54	-1.15	1.11	0.65	1.01	0.55	2.23	-0.01	0.19	0.95	0.44	0.05	1.12	0.46	-1.55	-0.77	0.98	**7.79**
4403	2,4,7,9,10,12,14,32,48,51	1.04	-1.67	1.85	0.06	-0.95	1.41	2.95	-0.71	-0.06	0.85	-0.07	-0.90	1.63	0.46	-1.55	-0.77	0.98	**4.55**
4404	2,4,7,9,10,12,14,32,48,52,53,54	0.71	-1.67	1.50	-0.33	-0.41	0.55	2.71	-0.53	0.06	0.85	-0.39	-1.85	1.15	0.46	-1.55	-0.77	0.98	**1.46**
4405	2,4,7,9,10,13,17,18,20,23,26,30,32,46,47,50,54	1.04	1.70	0.13	-0.62	0.24	0.98	1.28	-0.38	2.09	-0.12	0.77	-0.90	0.68	0.33	-1.55	1.14	0.98	**7.78**
4406	2,4,7,9,10,13,17,18,20,23,26,30,32,46,49,53,54	0.99	1.44	0.11	-0.67	0.21	0.13	1.04	0.14	1.51	-0.25	0.93	0.05	0.65	0.33	-1.55	1.14	0.98	**7.17**
4407	2,4,7,9,10,13,17,18,20,23,26,30,32,48,51	0.49	0.92	0.86	-1.26	-1.74	0.98	1.75	-0.56	1.26	-0.35	0.43	-0.90	1.16	0.33	-1.55	1.14	0.98	**3.93**
4408	2,4,7,9,10,13,17,18,20,23,26,30,32,48,52,53,54	0.17	0.92	0.50	-1.65	-1.21	0.13	1.52	-0.38	1.38	-0.35	0.11	-1.85	0.67	0.33	-1.55	1.14	0.98	**0.84**
4409	2,4,7,9,10,13,17,18,20,23,26,31,34,35,37,40,41,44,55	-0.79	0.40	-0.76	-0.60	0.50	-1.16	-1.35	0.04	0.48	-0.74	-0.03	-0.90	-0.85	-0.40	-1.55	1.14	-0.72	**-7.29**
4410	2,4,7,9,10,13,17,18,20,23,26,31,34,35,37,40,41,45,55	0.91	1.44	0.08	0.42	0.01	0.98	-0.16	0.61	1.81	0.07	0.68	-0.90	0.03	-0.40	-1.55	1.14	-0.72	**4.45**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
4411	2,4,7,9,10,13,17,18,20,23,26,31,34,35,37,40,43,47,46,48,51	-0.04	1.44	-0.29	1.20	-0.71	0.13	-0.16	0.04	-0.09	-0.86	1.10	1.01	-0.51	-0.40	-1.55	1.14	-0.72	**0.71**
4412	2,4,7,9,10,13,17,18,20,23,26,31,34,35,37,40,43,47,46,48,52,53,54	-0.37	1.44	-0.65	0.81	-0.18	-0.73	-0.40	0.21	0.03	-0.86	0.78	0.05	-1.00	-0.40	-1.55	1.14	-0.72	**-2.38**
4413	2,4,7,9,10,13,17,18,20,23,26,31,34,35,37,40,43,47,49,53,54	-1.30	1.70	-1.51	-0.29	0.68	-0.73	-1.35	0.73	0.16	-0.76	-0.32	0.05	-1.37	-0.40	-1.55	1.14	-0.72	**-5.84**
4414	2,4,7,9,10,13,17,18,20,23,26,31,34,35,37,40,43,50,54	-1.40	1.18	-1.53	-0.41	0.61	-0.73	-1.11	0.21	0.74	-0.71	-0.56	-0.90	-1.41	-0.40	-1.55	1.14	-0.72	**-7.56**
4415	2,4,7,9,10,13,17,18,20,23,26,31,34,35,37,42,46,48,51	-0.17	0.66	-0.33	1.12	-0.76	-0.73	-0.16	0.04	-0.09	-0.89	1.06	1.01	-0.59	-0.40	-1.55	1.14	-0.72	**-1.36**
4416	2,4,7,9,10,13,17,18,20,23,26,31,34,35,37,42,46,48,52,53,54	-0.50	0.66	-0.68	0.73	-0.22	-1.59	-0.40	0.21	0.03	-0.89	0.74	0.05	-1.07	-0.40	-1.55	1.14	-0.72	**-4.45**
4417	2,4,7,9,10,13,17,18,20,23,26,31,34,35,37,42,47,50,54	-1.38	0.92	-1.53	-0.32	0.66	-0.73	-1.11	0.21	0.74	-0.66	-0.54	-0.90	-1.41	-0.40	-1.55	1.14	-0.72	**-7.59**
4418	2,4,7,9,10,13,17,18,20,23,26,31,34,35,37,42,49,53,54	-1.43	0.66	-1.55	-0.37	0.63	-1.59	-1.35	0.73	0.16	-0.79	-0.36	0.05	-1.44	-0.40	-1.55	1.14	-0.72	**-8.17**
4419	2,4,7,9,10,13,17,18,20,23,26,31,34,36,39,41,40,42,46,48,51	1.16	1.44	0.80	1.37	-1.38	-0.73	0.56	0.18	-0.12	1.08	0.00	1.01	0.46	-0.40	-1.55	1.14	-0.72	**4.29**
4420	2,4,7,9,10,13,17,18,20,23,26,31,34,36,39,41,40,42,46,48,52,53,54	0.83	1.44	0.44	0.99	-0.84	-1.59	0.32	0.36	0.00	1.08	-0.32	0.05	-0.03	-0.40	-1.55	1.14	-0.72	**1.21**
4421	2,4,7,9,10,13,17,18,20,23,26,31,34,36,39,41,40,42,47,50,54	-0.05	1.70	-0.40	-0.06	0.04	-0.73	-0.40	0.36	0.71	1.31	-1.61	-0.90	-0.37	-0.40	-1.55	1.14	-0.72	**-1.93**
4422	2,4,7,9,10,13,17,18,20,23,26,31,34,36,39,41,40,42,49,53,54	-0.10	1.44	-0.42	-0.11	0.01	-1.59	-0.64	0.88	0.13	1.18	-1.43	0.05	-0.40	-0.40	-1.55	1.14	-0.72	**-2.52**
4423	2,4,7,9,10,13,17,18,20,23,26,31,34,36,39,41,43,47,46,48,51	1.16	1.70	0.80	1.45	-1.33	-0.73	0.56	0.18	-0.12	1.11	0.00	1.01	0.46	-0.40	-1.55	1.14	-0.72	**4.72**
4424	2,4,7,9,10,13,17,18,20,23,26,31,34,36,39,41,43,47,46,48,52,53,54	0.83	1.70	0.45	1.07	-0.79	-1.59	0.32	0.36	0.00	1.11	-0.32	0.05	-0.03	-0.40	-1.55	1.14	-0.72	**1.64**
4425	2,4,7,9,10,13,17,18,20,23,26,31,34,36,39,41,43,47,49,53,54	-0.09	1.96	-0.42	-0.03	0.06	-1.59	-0.64	0.88	0.13	1.22	-1.42	0.05	-0.40	-0.40	-1.55	1.14	-0.72	**-1.83**
4426	2,4,7,9,10,13,17,18,20,23,26,31,34,36,39,41,43,50,54	-0.19	1.44	-0.44	-0.15	-0.01	-1.59	-0.40	0.36	0.71	1.26	-1.66	-0.90	-0.44	-0.40	-1.55	1.14	-0.72	**-3.55**
4427	2,4,7,9,10,13,17,18,20,23,26,31,34,36,39,44,55	-1.13	0.14	-0.09	-0.34	-0.11	-2.02	-1.59	0.18	0.45	1.24	-1.82	-0.90	-0.50	-0.40	-1.55	1.14	-0.72	**-8.02**
4428	2,4,7,9,10,13,17,18,20,23,26,31,34,36,39,45,55	0.57	1.18	0.75	0.68	-0.61	0.13	-0.40	0.76	1.78	2.05	-1.11	-0.90	0.37	-0.40	-1.55	1.14	-0.72	**3.71**
4429	2,4,7,9,10,13,17,18,20,23,26,31,34,38,40,42,46,48,51	-0.13	0.66	-0.33	1.09	-0.04	-0.30	-0.16	0.40	0.23	-0.88	1.02	1.01	-0.58	-0.40	-1.55	1.14	1.40	**2.59**
4430	2,4,7,9,10,13,17,18,20,23,26,31,34,38,40,42,46,48,52,53,54	-0.46	0.66	-0.68	0.70	0.50	-1.16	-0.40	0.58	0.35	-0.88	0.71	0.05	-1.06	-0.40	-1.55	1.14	1.40	**-0.50**
4431	2,4,7,9,10,13,17,18,20,23,26,31,34,38,40,42,47,50,54	-1.35	0.92	-1.53	-0.35	1.38	-0.30	-1.11	0.58	1.06	-0.65	-0.58	-0.90	-1.40	-0.40	-1.55	1.14	1.40	**-3.64**
4432	2,4,7,9,10,13,17,18,20,23,26,31,34,38,40,42,49,53,54	-1.39	0.66	-1.55	-0.40	1.35	-1.16	-1.35	1.10	0.48	-0.78	-0.40	0.05	-1.44	-0.40	-1.55	1.14	1.40	**-4.22**
4433	2,4,7,9,10,13,17,18,20,23,26,31,34,38,41,44,55	-0.88	-0.12	-0.80	-0.63	1.22	-1.59	-1.35	0.40	0.81	-0.73	-0.11	-0.90	-0.91	-0.40	-1.55	1.14	1.40	**-4.98**
4434	2,4,7,9,10,13,17,18,20,23,26,31,34,38,41,45,55	0.82	0.92	0.04	0.39	0.73	0.55	-0.16	0.98	2.13	0.08	0.60	-0.90	-0.04	-0.40	-1.55	1.14	1.40	**6.75**
4435	2,4,7,9,10,13,17,18,20,23,26,31,34,38,43,47,46,48,51	-0.13	0.40	-0.33	1.17	0.00	-0.30	-0.16	0.40	0.23	-0.85	1.03	1.01	-0.58	-0.40	-1.55	1.14	1.40	**2.50**
4436	2,4,7,9,10,13,17,18,20,23,26,31,34,38,43,47,46,48,52,53,54	-0.46	0.40	-0.68	0.78	0.54	-1.16	-0.40	0.58	0.35	-0.85	0.71	0.05	-1.06	-0.40	-1.55	1.14	1.40	**-0.59**
4437	2,4,7,9,10,13,17,18,20,23,26,31,34,38,43,47,49,53,54	-1.39	0.66	-1.55	-0.32	1.39	-1.16	-1.35	1.10	0.48	-0.74	-0.39	0.05	-1.43	-0.40	-1.55	1.14	1.40	**-4.05**
4438	2,4,7,9,10,13,17,18,20,23,26,31,34,38,43,50,54	-1.49	0.14	-1.57	-0.44	1.33	-1.16	-1.11	0.58	1.06	-0.70	-0.64	-0.90	-1.47	-0.40	-1.55	1.14	1.40	**-5.77**
4439	2,4,7,9,10,13,17,18,20,23,26,33,37,40,41,44,55	-0.85	-0.64	-0.80	-0.62	0.15	-1.16	-1.11	0.04	0.18	-0.72	-0.08	-0.90	-0.87	-0.40	-1.55	1.14	-0.72	**-8.92**
4440	2,4,7,9,10,13,17,18,20,23,26,33,37,40,41,45,55	0.85	0.40	0.04	0.40	-0.34	0.98	0.08	0.61	1.50	0.09	0.62	-0.90	0.01	-0.40	-1.55	1.14	-0.72	**2.81**
4441	2,4,7,9,10,13,17,18,20,23,26,33,37,40,43,47,46,48,51	-0.11	0.40	-0.32	1.18	-1.07	0.13	0.08	0.04	-0.39	-0.84	1.05	1.01	-0.53	-0.40	-1.55	1.14	-0.72	**-0.93**
4442	2,4,7,9,10,13,17,18,20,23,26,33,37,40,43,47,46,48,52,53,54	-0.43	0.40	-0.68	0.79	-0.53	-0.73	-0.16	0.21	-0.27	-0.84	0.73	0.05	-1.02	-0.40	-1.55	1.14	-0.72	**-4.01**
4443	2,4,7,9,10,13,17,18,20,23,26,33,37,40,43,47,49,53,54	-1.36	0.66	-1.54	-0.31	0.32	-0.73	-1.11	0.73	-0.15	-0.74	-0.37	0.05	-1.39	-0.40	-1.55	1.14	-0.72	**-7.48**
4444	2,4,7,9,10,13,17,18,20,23,26,33,37,40,43,50,54	-1.46	0.14	-1.56	-0.43	0.25	-0.73	-0.87	0.21	0.44	-0.70	-0.62	-0.90	-1.43	-0.40	-1.55	1.14	-0.72	**-9.20**
4445	2,4,7,9,10,13,17,18,20,23,26,33,37,42,46,48,51	-0.24	-0.38	-0.36	1.10	-1.12	-0.73	0.08	0.04	-0.39	-0.88	1.01	1.01	-0.61	-0.40	-1.55	1.14	-0.72	**-3.00**
4446	2,4,7,9,10,13,17,18,20,23,26,33,37,42,46,48,52,53,54	-0.57	-0.38	-0.71	0.71	-0.58	-1.59	-0.16	0.21	-0.27	-0.88	0.69	0.05	-1.09	-0.40	-1.55	1.14	-0.72	**-6.08**
4447	2,4,7,9,10,13,17,18,20,23,26,33,37,42,47,50,54	-1.45	-0.12	-1.56	-0.34	0.30	-0.73	-0.87	0.21	0.44	-0.64	-0.59	-0.90	-1.43	-0.40	-1.55	1.14	-0.72	**-9.22**
4448	2,4,7,9,10,13,17,18,20,23,26,33,37,42,49,53,54	-1.49	-0.38	-1.58	-0.39	0.27	-1.59	-1.11	0.73	-0.15	-0.77	-0.41	0.05	-1.46	-0.40	-1.55	1.14	-0.72	**-9.81**
4449	2,4,7,9,10,13,17,18,20,23,27,28,31,30,32,46,47,50,54	1.07	1.70	0.09	-0.59	0.44	0.98	1.28	-0.38	1.73	0.25	0.52	-0.90	0.65	0.33	-1.55	-0.77	0.98	**5.82**
4450	2,4,7,9,10,13,17,18,20,23,27,28,31,30,32,46,49,53,54	1.03	1.44	0.07	-0.64	0.42	0.13	1.04	0.14	1.15	0.12	0.68	0.05	0.61	0.33	-1.55	-0.77	0.98	**5.22**
4451	2,4,7,9,10,13,17,18,20,23,27,28,31,30,32,48,51	0.53	0.92	0.82	-1.23	-1.54	0.98	1.75	-0.56	0.91	0.02	0.17	-0.90	1.12	0.33	-1.55	-0.77	0.98	**1.97**
4452	2,4,7,9,10,13,17,18,20,23,27,28,31,30,32,48,52,53,54	0.20	0.92	0.46	-1.62	-1.00	0.13	1.52	-0.38	1.03	0.02	-0.15	-1.85	0.64	0.33	-1.55	-0.77	0.98	**-1.12**
4453	2,4,7,9,10,13,17,18,20,23,27,28,31,33,37,40,41,44,55	-0.82	-0.12	-0.84	-0.59	0.35	-1.16	-1.11	0.04	-0.17	-0.35	-0.34	-0.90	-0.90	-0.40	-1.55	-0.77	-0.72	**-10.36**
4454	2,4,7,9,10,13,17,18,20,23,27,28,31,33,37,40,41,45,55	0.88	0.92	0.00	0.43	-0.14	0.98	0.08	0.61	1.15	0.46	0.36	-0.90	-0.03	-0.40	-1.55	-0.77	-0.72	**1.37**
4455	2,4,7,9,10,13,17,18,20,23,27,28,31,33,37,40,43,47,46,48,51	-0.07	0.92	-0.36	1.20	-0.87	0.13	0.08	0.04	-0.75	-0.47	0.79	1.01	-0.57	-0.40	-1.55	-0.77	-0.72	**-2.37**
4456	2,4,7,9,10,13,17,18,20,23,27,28,31,33,37,40,43,47,46,48,52,53,54	-0.40	0.92	-0.72	0.82	-0.33	-0.73	-0.16	0.21	-0.62	-0.47	0.47	0.05	-1.05	-0.40	-1.55	-0.77	-0.72	**-5.45**
4457	2,4,7,9,10,13,17,18,20,23,27,28,31,33,37,40,43,47,49,53,54	-1.33	1.18	-1.59	-0.28	0.52	-0.73	-1.11	0.73	-0.50	-0.37	-0.63	0.05	-1.42	-0.40	-1.55	-0.77	-0.72	**-8.92**
4458	2,4,7,9,10,13,17,18,20,23,27,28,31,33,37,40,43,50,54	-1.43	0.66	-1.60	-0.40	0.46	-0.73	-0.87	0.21	0.08	-0.33	-0.87	-0.90	-1.47	-0.40	-1.55	-0.77	-0.72	**-10.64**
4459	2,4,7,9,10,13,17,18,20,23,27,28,31,33,37,42,46,48,51	-0.20	0.14	-0.40	1.12	-0.91	-0.73	0.08	0.04	-0.75	-0.51	0.75	1.01	-0.64	-0.40	-1.55	-0.77	-0.72	**-4.44**
4460	2,4,7,9,10,13,17,18,20,23,27,28,31,33,37,42,46,48,52,53,54	-0.53	0.14	-0.76	0.74	-0.37	-1.59	-0.16	0.21	-0.62	-0.51	0.43	0.05	-1.13	-0.40	-1.55	-0.77	-0.72	**-7.52**
4461	2,4,7,9,10,13,17,18,20,23,27,28,31,33,37,42,47,50,54	-1.41	0.40	-1.60	-0.31	0.51	-0.73	-0.87	0.21	0.08	-0.27	-0.85	-0.90	-1.46	-0.40	-1.55	-0.77	-0.72	**-10.66**
4462	2,4,7,9,10,13,17,18,20,23,27,28,31,33,37,42,49,53,54	-1.46	0.14	-1.62	-0.36	0.48	-1.59	-1.11	0.73	-0.50	-0.40	-0.67	0.05	-1.50	-0.40	-1.55	-0.77	-0.72	**-11.25**
4463	2,4,7,9,10,13,17,18,20,23,27,28,34,35,37,40,41,44,55	-0.84	-0.12	-0.83	-0.57	0.71	-1.16	-1.35	0.04	0.13	-0.39	-0.37	-0.90	-0.95	-0.40	-1.55	-0.77	-0.72	**-10.05**
4464	2,4,7,9,10,13,17,18,20,23,27,28,34,35,37,40,41,45,55	0.86	0.92	0.01	0.45	0.22	0.98	-0.16	0.61	1.45	0.42	0.34	-0.90	-0.07	-0.40	-1.55	-0.77	-0.72	**1.68**
4465	2,4,7,9,10,13,17,18,20,23,27,28,34,35,37,40,43,47,46,48,51	-0.10	0.92	-0.36	1.23	-0.51	0.13	-0.16	0.04	-0.44	-0.52	0.76	1.01	-0.61	-0.40	-1.55	-0.77	-0.72	**-2.06**
4466	2,4,7,9,10,13,17,18,20,23,27,28,34,35,37,40,43,47,46,48,52,53,54	-0.43	0.92	-0.71	0.84	0.03	-0.73	-0.40	0.21	-0.32	-0.52	0.45	0.05	-1.10	-0.40	-1.55	-0.77	-0.72	**-5.14**
4467	2,4,7,9,10,13,17,18,20,23,27,28,34,35,37,40,43,47,49,53,54	-1.35	1.18	-1.58	-0.26	0.88	-0.73	-1.35	0.73	-0.20	-0.41	-0.66	0.05	-1.47	-0.40	-1.55	-0.77	-0.72	**-8.61**
4468	2,4,7,9,10,13,17,18,20,23,27,28,34,35,37,40,43,50,54	-1.45	0.66	-1.60	-0.38	0.82	-0.73	-1.11	0.21	0.38	-0.37	-0.90	-0.90	-1.51	-0.40	-1.55	-0.77	-0.72	**-10.33**
4469	2,4,7,9,10,13,17,18,20,23,27,28,34,35,37,42,46,48,51	-0.23	0.14	-0.39	1.15	-0.55	-0.73	-0.16	0.04	-0.44	-0.55	0.73	1.01	-0.69	-0.40	-1.55	-0.77	-0.72	**-4.13**
4470	2,4,7,9,10,13,17,18,20,23,27,28,34,35,37,42,46,48,52,53,54	-0.56	0.14	-0.75	0.76	-0.01	-1.59	-0.40	0.21	-0.32	-0.55	0.41	0.05	-1.17	-0.40	-1.55	-0.77	-0.72	**-7.22**
4471	2,4,7,9,10,13,17,18,20,23,27,28,34,35,37,42,47,50,54	-1.44	0.40	-1.60	-0.29	0.87	-0.73	-1.11	0.21	0.38	-0.32	-0.88	-0.90	-1.51	-0.40	-1.55	-0.77	-0.72	**-10.36**
4472	2,4,7,9,10,13,17,18,20,23,27,28,34,35,37,42,49,53,54	-1.49	0.14	-1.62	-0.34	0.84	-1.59	-1.35	0.73	-0.20	-0.44	-0.69	0.05	-1.54	-0.40	-1.55	-0.77	-0.72	**-10.94**
4473	2,4,7,9,10,13,17,18,20,23,27,28,34,36,39,41,40,42,46,48,51	1.10	0.92	0.73	1.40	-1.17	-0.73	0.56	0.18	-0.47	1.42	-0.34	1.01	0.36	-0.40	-1.55	-0.77	-0.72	**1.53**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
4474	2,4,7,9,10,13,17,18,20,23,27,28,34,36,39,41,40,42,46,48,52,53,54	0.77	0.92	0.38	1.02	-0.63	-1.59	0.32	0.36	-0.35	1.42	-0.66	0.05	-0.13	-0.40	-1.55	-0.77	-0.72	**-1.56**
4475	2,4,7,9,10,13,17,18,20,23,27,28,34,36,39,41,40,42,47,50,54	-0.11	1.18	-0.47	-0.03	0.25	-0.73	-0.40	0.36	0.35	1.66	-1.94	-0.90	-0.46	-0.40	-1.55	-0.77	-0.72	**-4.70**
4476	2,4,7,9,10,13,17,18,20,23,27,28,34,36,39,41,40,42,49,53,54	-0.15	0.92	-0.49	-0.08	0.22	-1.59	-0.64	0.88	-0.23	1.53	-1.76	0.05	-0.50	-0.40	-1.55	-0.77	-0.72	**-5.28**
4477	2,4,7,9,10,13,17,18,20,23,27,28,34,36,39,41,43,47,46,48,51	1.10	1.18	0.74	1.48	-1.13	-0.73	0.56	0.18	-0.47	1.46	-0.33	1.01	0.36	-0.40	-1.55	-0.77	-0.72	**1.96**
4478	2,4,7,9,10,13,17,18,20,23,27,28,34,36,39,41,43,47,46,48,52,53,54	0.78	1.18	0.38	1.09	-0.59	-1.59	0.32	0.36	-0.35	1.46	-0.65	0.05	-0.12	-0.40	-1.55	-0.77	-0.72	**-1.13**
4479	2,4,7,9,10,13,17,18,20,23,27,28,34,36,39,41,43,47,49,53,54	-0.15	1.44	-0.49	0.00	0.26	-1.59	-0.64	0.88	-0.23	1.56	-1.76	0.05	-0.50	-0.40	-1.55	-0.77	-0.72	**-4.59**
4480	2,4,7,9,10,13,17,18,20,23,27,28,34,36,39,41,43,50,54	-0.25	0.92	-0.51	-0.12	0.20	-1.59	-0.40	0.36	0.35	1.61	-2.00	-0.90	-0.54	-0.40	-1.55	-0.77	-0.72	**-6.31**
4481	2,4,7,9,10,13,17,18,20,23,27,28,34,36,39,44,55	-1.19	-0.38	-0.16	-0.32	0.09	-2.02	-1.59	0.18	0.10	1.58	-2.15	-0.90	-0.60	-0.40	-1.55	-0.77	-0.72	**-10.79**
4482	2,4,7,9,10,13,17,18,20,23,27,28,34,36,39,45,55	0.52	0.66	0.68	0.70	-0.40	0.13	-0.40	0.76	1.42	2.39	-1.44	-0.90	0.27	-0.40	-1.55	-0.77	-0.72	**0.95**
4483	2,4,7,9,10,13,17,18,20,23,27,28,34,38,40,42,46,48,51	-0.19	0.14	-0.39	1.12	0.17	-0.30	-0.16	0.40	-0.12	-0.54	0.69	1.01	-0.68	-0.40	-1.55	-0.77	1.40	**-0.18**
4484	2,4,7,9,10,13,17,18,20,23,27,28,34,38,40,42,46,48,52,53,54	-0.52	0.14	-0.75	0.73	0.70	-1.16	-0.40	0.58	0.00	-0.54	0.37	0.05	-1.16	-0.40	-1.55	-0.77	1.40	**-3.26**
4485	2,4,7,9,10,13,17,18,20,23,27,28,34,38,40,42,47,50,54	-1.40	0.40	-1.60	-0.32	1.58	-0.30	-1.11	0.58	0.71	-0.31	-0.92	-0.90	-1.50	-0.40	-1.55	-0.77	1.40	**-6.40**
4486	2,4,7,9,10,13,17,18,20,23,27,28,34,38,40,42,49,53,54	-1.45	0.14	-1.62	-0.37	1.55	-1.16	-1.35	1.10	0.13	-0.43	-0.73	0.05	-1.53	-0.40	-1.55	-0.77	1.40	**-6.99**
4487	2,4,7,9,10,13,17,18,20,23,27,28,34,38,41,44,55	-0.94	-0.64	-0.87	-0.60	1.43	-1.59	-1.35	0.40	0.45	-0.38	-0.44	-0.90	-1.01	-0.40	-1.55	-0.77	1.40	**-7.75**
4488	2,4,7,9,10,13,17,18,20,23,27,28,34,38,41,45,55	0.76	0.40	-0.03	0.42	0.94	0.55	-0.16	0.98	1.78	0.43	0.26	-0.90	-0.13	-0.40	-1.55	-0.77	1.40	**3.99**
4489	2,4,7,9,10,13,17,18,20,23,27,28,34,38,43,47,46,48,51	-0.19	-0.12	-0.39	1.20	0.21	-0.30	-0.16	0.40	-0.12	-0.50	0.69	1.01	-0.67	-0.40	-1.55	-0.77	1.40	**-0.27**
4490	2,4,7,9,10,13,17,18,20,23,27,28,34,38,43,47,46,48,52,53,54	-0.52	-0.12	-0.75	0.81	0.75	-1.16	-0.40	0.58	0.00	-0.50	0.37	0.05	-1.16	-0.40	-1.55	-0.77	1.40	**-3.35**
4491	2,4,7,9,10,13,17,18,20,23,27,28,34,38,43,47,49,53,54	-1.45	0.14	-1.62	-0.29	1.60	-1.16	-1.35	1.10	0.13	-0.40	-0.73	0.05	-1.53	-0.40	-1.55	-0.77	1.40	**-6.82**
4492	2,4,7,9,10,13,17,18,20,23,27,28,34,38,43,50,54	-1.55	-0.38	-1.64	-0.41	1.53	-1.16	-1.11	0.58	0.71	-0.36	-0.97	-0.90	-1.57	-0.40	-1.55	-0.77	1.40	**-8.54**
4493	2,4,7,9,10,13,17,19,22,24,29,36,35,37,40,41,44,55	0.72	0.66	0.51	-1.09	-0.39	-0.30	-0.16	-1.01	-0.09	-0.51	0.36	-0.90	0.97	1.68	-1.55	-0.77	-0.72	**-2.60**
4494	2,4,7,9,10,13,17,19,22,24,29,36,35,37,40,41,45,55	2.42	1.70	1.35	-0.07	-0.88	1.84	1.04	-0.44	1.23	0.30	1.07	-0.90	1.85	1.68	-1.55	-0.77	-0.72	**9.14**
4495	2,4,7,9,10,13,17,19,22,24,29,36,35,37,40,43,47,46,48,51	1.46	1.70	0.98	0.71	-1.60	0.98	1.04	-1.01	-0.66	-0.64	1.49	1.01	1.31	1.68	-1.55	-0.77	-0.72	**5.40**
4496	2,4,7,9,10,13,17,19,22,24,29,36,35,37,40,43,47,46,48,52,53,54	1.14	1.70	0.63	0.32	-1.07	0.13	0.80	-0.83	-0.54	-0.64	1.18	0.05	0.82	1.68	-1.55	-0.77	-0.72	**2.32**
4497	2,4,7,9,10,13,17,19,22,24,29,36,35,37,40,43,47,49,53,54	0.21	1.96	-0.24	-0.78	-0.22	0.13	-0.16	-0.31	-0.42	-0.53	0.07	0.05	0.45	1.68	-1.55	-0.77	-0.72	**-1.15**
4498	2,4,7,9,10,13,17,19,22,24,29,36,35,37,40,43,50,54	0.11	1.44	-0.26	-0.90	-0.28	0.13	0.08	-0.83	0.17	-0.49	-0.17	-0.90	0.41	1.68	-1.55	-0.77	-0.72	**-2.87**
4499	2,4,7,9,10,13,17,19,22,24,29,36,35,37,42,46,48,51	1.33	0.92	0.95	0.63	-1.65	0.13	1.04	-1.01	-0.66	-0.67	1.46	1.01	1.24	1.68	-1.55	-0.77	-0.72	**3.33**
4500	2,4,7,9,10,13,17,19,22,24,29,36,35,37,42,46,48,52,53,54	1.00	0.92	0.59	0.24	-1.11	-0.73	0.80	-0.83	-0.54	-0.67	1.14	0.05	0.75	1.68	-1.55	-0.77	-0.72	**0.24**
4501	2,4,7,9,10,13,17,19,22,24,29,36,35,37,42,47,50,54	0.12	1.18	-0.26	-0.81	-0.23	0.13	0.08	-0.83	0.17	-0.44	-0.15	-0.90	0.41	1.68	-1.55	-0.77	-0.72	**-2.90**
4502	2,4,7,9,10,13,17,19,22,24,29,36,35,37,42,49,53,54	0.08	0.92	-0.28	-0.86	-0.26	-0.73	-0.16	-0.31	-0.42	-0.57	0.03	0.05	0.38	1.68	-1.55	-0.77	-0.72	**-3.48**
4503	2,4,7,9,10,13,17,19,22,24,29,36,38,40,42,46,48,51	1.37	1.18	0.95	0.60	-0.93	0.55	1.04	-0.64	-0.34	-0.66	1.42	1.01	1.24	1.68	-1.55	-0.77	1.40	**7.54**
4504	2,4,7,9,10,13,17,19,22,24,29,36,38,40,42,46,48,52,53,54	1.04	1.18	0.59	0.21	-0.39	-0.30	0.80	-0.47	-0.22	-0.66	1.10	0.05	0.76	1.68	-1.55	-0.77	1.40	**4.46**
4505	2,4,7,9,10,13,17,19,22,24,29,36,38,40,42,47,50,54	0.16	1.44	-0.26	-0.84	0.49	0.55	0.08	-0.47	0.49	-0.43	-0.19	-0.90	0.42	1.68	-1.55	-0.77	1.40	**1.32**
4506	2,4,7,9,10,13,17,19,22,24,29,36,38,40,42,49,53,54	0.12	1.18	-0.28	-0.89	0.46	-0.30	-0.16	0.05	-0.09	-0.55	-0.01	0.05	0.39	1.68	-1.55	-0.77	1.40	**0.73**
4507	2,4,7,9,10,13,17,19,22,24,29,36,38,41,44,55	0.63	0.40	0.47	-1.12	0.33	-0.73	-0.16	-0.64	0.23	-0.50	0.28	-0.90	0.91	1.68	-1.55	-0.77	1.40	**-0.03**
4508	2,4,7,9,10,13,17,19,22,24,29,36,38,41,45,55	2.33	1.44	1.31	-0.10	-0.16	1.41	1.04	-0.07	1.56	0.31	0.99	-0.90	1.79	1.68	-1.55	-0.77	1.40	**11.70**
4509	2,4,7,9,10,13,17,19,22,24,29,36,38,43,47,46,48,51	1.37	0.92	0.95	0.68	-0.89	0.55	1.04	-0.64	-0.34	-0.63	1.42	1.01	1.25	1.68	-1.55	-0.77	1.40	**7.45**
4510	2,4,7,9,10,13,17,19,22,24,29,36,38,43,47,46,48,52,53,54	1.05	0.92	0.59	0.29	-0.35	-0.30	0.80	-0.47	-0.22	-0.63	1.10	0.05	0.76	1.68	-1.55	-0.77	1.40	**4.36**
4511	2,4,7,9,10,13,17,19,22,24,29,36,38,43,47,49,53,54	0.12	1.18	-0.27	-0.81	0.50	-0.30	-0.16	0.05	-0.09	-0.52	0.00	0.05	0.39	1.68	-1.55	-0.77	1.40	**0.90**
4512	2,4,7,9,10,13,17,19,22,24,29,36,38,43,50,54	0.02	0.66	-0.29	-0.93	0.44	-0.30	0.08	-0.47	0.49	-0.48	-0.24	-0.90	0.35	1.68	-1.55	-0.77	1.40	**-0.82**
4513	2,4,7,9,10,13,17,19,22,24,29,39,41,40,42,46,48,51	1.57	0.92	1.78	0.26	-2.27	-0.73	1.75	-0.87	-0.69	0.66	0.15	1.01	1.72	1.68	-1.55	-0.77	-0.72	**3.89**
4514	2,4,7,9,10,13,17,19,22,24,29,39,41,40,42,46,48,52,53,54	1.25	0.92	1.42	-0.13	-1.73	-1.59	1.52	-0.69	-0.57	0.66	-0.17	0.05	1.24	1.68	-1.55	-0.77	-0.72	**0.81**
4515	2,4,7,9,10,13,17,19,22,24,29,39,41,40,42,47,50,54	0.36	1.18	0.58	-1.18	-0.85	-0.73	0.80	-0.69	0.14	0.89	-1.46	-0.90	0.90	1.68	-1.55	-0.77	-0.72	**-2.33**
4516	2,4,7,9,10,13,17,19,22,24,29,39,41,40,42,49,53,54	0.32	0.92	0.56	-1.23	-0.88	-1.59	0.56	-0.17	-0.45	0.77	-1.27	0.05	0.87	1.68	-1.55	-0.77	-0.72	**-2.92**
4517	2,4,7,9,10,13,17,19,22,24,29,39,41,43,47,46,48,51	1.57	1.18	1.78	0.34	-2.22	-0.73	1.75	-0.87	-0.69	0.70	0.15	1.01	1.73	1.68	-1.55	-0.77	-0.72	**4.32**
4518	2,4,7,9,10,13,17,19,22,24,29,39,41,43,47,46,48,52,53,54	1.25	1.18	1.42	-0.05	-1.68	-1.59	1.52	-0.69	-0.57	0.70	-0.17	0.05	1.24	1.68	-1.55	-0.77	-0.72	**1.24**
4519	2,4,7,9,10,13,17,19,22,24,29,39,41,43,47,49,53,54	0.32	1.44	0.56	-1.15	-0.83	-1.59	0.56	-0.17	-0.45	0.80	-1.27	0.05	0.87	1.68	-1.55	-0.77	-0.72	**-2.23**
4520	2,4,7,9,10,13,17,19,22,24,29,39,41,43,50,54	0.22	0.92	0.54	-1.27	-0.90	-1.59	0.80	-0.69	0.14	0.84	-1.51	-0.90	0.83	1.68	-1.55	-0.77	-0.72	**-3.95**
4521	2,4,7,9,10,13,17,19,22,24,29,39,44,55	-0.71	-0.38	0.89	-1.46	-1.00	-2.02	-0.40	-0.87	-0.12	0.82	-1.66	-0.90	0.76	1.68	-1.55	-0.77	-0.72	**-8.42**
4522	2,4,7,9,10,13,17,19,22,24,29,39,45,55	0.99	0.66	1.73	-0.44	-1.50	0.13	0.80	-0.29	1.20	1.63	-0.96	-0.90	1.64	1.68	-1.55	-0.77	-0.72	**3.31**
4523	2,4,7,9,10,13,17,19,22,25,29,36,35,37,40,41,44,55	0.50	0.40	0.45	-1.52	-0.05	-0.30	0.08	-0.99	-0.53	-0.45	0.00	-0.90	0.91	1.71	-1.55	-0.77	-0.72	**-3.73**
4524	2,4,7,9,10,13,17,19,22,25,29,36,35,37,40,41,45,55	2.20	1.44	1.29	-0.50	-0.55	1.84	1.28	-0.41	0.80	0.37	0.70	-0.90	1.79	1.71	-1.55	-0.77	-0.72	**8.01**
4525	2,4,7,9,10,13,17,19,22,25,29,36,35,37,40,43,47,46,48,51	1.25	1.44	0.93	0.28	-1.27	0.98	1.28	-0.99	-1.10	-0.57	1.13	1.01	1.25	1.71	-1.55	-0.77	-0.72	**4.27**
4526	2,4,7,9,10,13,17,19,22,25,29,36,35,37,40,43,47,46,48,52,53,54	0.92	1.44	0.57	-0.11	-0.73	0.13	1.04	-0.81	-0.98	-0.57	0.81	0.05	0.77	1.71	-1.55	-0.77	-0.72	**1.18**
4527	2,4,7,9,10,13,17,19,22,25,29,36,35,37,40,43,47,49,53,54	-0.01	1.70	-0.30	-1.21	0.12	0.13	0.08	-0.29	-0.85	-0.46	-0.29	0.05	0.39	1.71	-1.55	-0.77	-0.72	**-2.28**
4528	2,4,7,9,10,13,17,19,22,25,29,36,35,37,40,43,50,54	-0.11	1.18	-0.32	-1.33	0.05	0.13	0.32	-0.81	-0.27	-0.42	-0.54	-0.90	0.35	1.71	-1.55	-0.77	-0.72	**-4.00**
4529	2,4,7,9,10,13,17,19,22,25,29,36,35,37,42,46,48,51	1.12	0.66	0.89	0.20	-1.32	0.13	1.28	-0.99	-1.10	-0.60	1.09	1.01	1.18	1.71	-1.55	-0.77	-0.72	**2.20**
4530	2,4,7,9,10,13,17,19,22,25,29,36,35,37,42,46,48,52,53,54	0.79	0.66	0.53	-0.19	-0.78	-0.73	1.04	-0.81	-0.98	-0.60	0.77	0.05	0.69	1.71	-1.55	-0.77	-0.72	**-0.89**
4531	2,4,7,9,10,13,17,19,22,25,29,36,35,37,42,47,50,54	-0.09	0.92	-0.31	-1.24	0.10	0.13	0.32	-0.81	-0.27	-0.37	-0.51	-0.90	0.36	1.71	-1.55	-0.77	-0.72	**-4.03**
4532	2,4,7,9,10,13,17,19,22,25,29,36,35,37,42,49,53,54	-0.14	0.66	-0.33	-1.29	0.07	-0.73	0.08	-0.29	-0.85	-0.50	-0.33	0.05	0.32	1.71	-1.55	-0.77	-0.72	**-4.61**
4533	2,4,7,9,10,13,17,19,22,25,29,36,38,40,42,46,48,51	1.16	0.92	0.89	0.17	-0.60	0.55	1.28	-0.62	-0.78	-0.59	1.05	1.01	1.18	1.71	-1.55	-0.77	1.40	**6.41**
4534	2,4,7,9,10,13,17,19,22,25,29,36,38,40,42,46,48,52,53,54	0.83	0.92	0.53	-0.22	-0.06	-0.30	1.04	-0.44	-0.66	-0.59	0.73	0.05	0.70	1.71	-1.55	-0.77	1.40	**3.32**
4535	2,4,7,9,10,13,17,19,22,25,29,36,38,40,42,47,50,54	-0.05	1.18	-0.32	-1.27	0.82	0.55	0.32	-0.44	0.05	-0.36	-0.55	-0.90	0.36	1.71	-1.55	-0.77	1.40	**0.18**
4536	2,4,7,9,10,13,17,19,22,25,29,36,38,40,42,49,53,54	-0.10	0.92	-0.33	-1.32	0.79	-0.30	0.08	0.08	-0.53	-0.49	-0.37	0.05	0.33	1.71	-1.55	-0.77	1.40	**-0.40**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
4537	2,4,7,9,10,13,17,19,22,25,29,36,38,41,44,55	0.41	0.14	0.42	-1.55	0.66	-0.73	0.08	-0.62	-0.21	-0.43	-0.08	-0.90	0.85	1.71	-1.55	-0.77	1.40	**-1.16**
4538	2,4,7,9,10,13,17,19,22,25,29,36,38,41,45,55	2.11	1.18	1.26	-0.53	0.17	1.41	1.28	-0.04	1.12	0.38	0.63	-0.90	1.73	1.71	-1.55	-0.77	1.40	**10.57**
4539	2,4,7,9,10,13,17,19,22,25,29,36,38,43,47,46,48,51	1.16	0.66	0.89	0.25	-0.55	0.55	1.28	-0.62	-0.78	-0.56	1.06	1.01	1.19	1.71	-1.55	-0.77	1.40	**6.32**
4540	2,4,7,9,10,13,17,19,22,25,29,36,38,43,47,46,48,52,53,54	0.83	0.66	0.53	-0.14	-0.02	-0.30	1.04	-0.44	-0.66	-0.56	0.74	0.05	0.70	1.71	-1.55	-0.77	1.40	**3.23**
4541	2,4,7,9,10,13,17,19,22,25,29,36,38,43,47,49,53,54	-0.10	0.92	-0.33	-1.24	0.83	-0.30	0.08	0.08	-0.53	-0.45	-0.37	0.05	0.33	1.71	-1.55	-0.77	1.40	**-0.23**
4542	2,4,7,9,10,13,17,19,22,25,29,36,38,43,50,54	-0.20	0.40	-0.35	-1.36	0.77	-0.30	0.32	-0.44	0.05	-0.41	-0.61	-0.90	0.29	1.71	-1.55	-0.77	1.40	**-1.95**
4543	2,4,7,9,10,13,17,19,22,25,29,39,41,40,42,46,48,51	1.36	0.66	1.72	-0.18	-1.93	-0.73	1.99	-0.85	-1.13	0.73	-0.22	1.01	1.66	1.71	-1.55	-0.77	-0.72	**2.76**
4544	2,4,7,9,10,13,17,19,22,25,29,39,41,40,42,46,48,52,53,54	1.03	0.66	1.36	-0.56	-1.40	-1.59	1.75	-0.67	-1.01	0.73	-0.54	0.05	1.18	1.71	-1.55	-0.77	-0.72	**-0.32**
4545	2,4,7,9,10,13,17,19,22,25,29,39,41,40,42,47,50,54	0.15	0.92	0.52	-1.61	-0.52	-0.73	1.04	-0.67	-0.30	0.96	-1.82	-0.90	0.84	1.71	-1.55	-0.77	-0.72	**-3.46**
4546	2,4,7,9,10,13,17,19,22,25,29,39,41,40,42,49,53,54	0.10	0.66	0.50	-1.66	-0.54	-1.59	0.80	-0.15	-0.88	0.84	-1.64	0.05	0.81	1.71	-1.55	-0.77	-0.72	**-4.05**
4547	2,4,7,9,10,13,17,19,22,25,29,39,41,43,47,46,48,51	1.36	0.92	1.72	-0.10	-1.89	-0.73	1.99	-0.85	-1.13	0.76	-0.21	1.01	1.67	1.71	-1.55	-0.77	-0.72	**3.19**
4548	2,4,7,9,10,13,17,19,22,25,29,39,41,43,47,46,48,52,53,54	1.03	0.92	1.37	-0.48	-1.35	-1.59	1.75	-0.67	-1.01	0.76	-0.53	0.05	1.18	1.71	-1.55	-0.77	-0.72	**0.10**
4549	2,4,7,9,10,13,17,19,22,25,29,39,41,43,47,49,53,54	0.10	1.18	0.50	-1.58	-0.50	-1.59	0.80	-0.15	-0.88	0.87	-1.64	0.05	0.81	1.71	-1.55	-0.77	-0.72	**-3.36**
4550	2,4,7,9,10,13,17,19,22,25,29,39,41,43,50,54	0.00	0.66	0.48	-1.70	-0.57	-1.59	1.04	-0.67	-0.30	0.91	-1.88	-0.90	0.77	1.71	-1.55	-0.77	-0.72	**-5.08**
4551	2,4,7,9,10,13,17,19,22,25,29,39,44,55	-0.93	-0.64	0.83	-1.89	-0.67	-2.02	-0.16	-0.85	-0.56	0.89	-2.03	-0.90	0.70	1.71	-1.55	-0.77	-0.72	**-9.56**
4552	2,4,7,9,10,13,17,19,22,25,29,39,45,55	0.77	0.40	1.67	-0.88	-1.16	0.13	1.04	-0.27	0.77	1.70	-1.32	-0.90	1.58	1.71	-1.55	-0.77	-0.72	**2.18**
4553	2,4,7,9,10,13,17,21,27,26,30,32,46,47,50,54	1.04	1.70	0.27	-0.86	0.27	1.84	1.75	-1.07	1.55	-0.56	1.19	-0.90	0.95	0.43	-1.55	1.14	0.98	**8.17**
4554	2,4,7,9,10,13,17,21,27,26,30,32,46,49,53,54	1.00	1.44	0.25	-0.91	0.24	0.98	1.52	-0.55	0.97	-0.69	1.35	0.05	0.92	0.43	-1.55	1.14	0.98	**7.56**
4555	2,4,7,9,10,13,17,21,27,26,30,32,48,51	0.50	0.92	1.00	-1.51	-1.71	1.84	2.23	-1.25	0.72	-0.79	0.84	-0.90	1.43	0.43	-1.55	1.14	0.98	**4.31**
4556	2,4,7,9,10,13,17,21,27,26,30,32,48,52,53,54	0.17	0.92	0.64	-1.89	-1.17	0.98	1.99	-1.07	0.85	-0.79	0.53	-1.85	0.94	0.43	-1.55	1.14	0.98	**1.23**
4557	2,4,7,9,10,13,17,21,27,26,31,34,35,37,40,41,44,55	-0.78	0.40	-0.62	-0.85	0.54	-0.30	-0.87	-0.65	-0.05	-1.18	0.39	-0.90	-0.58	-0.30	-1.55	1.14	-0.72	**-6.90**
4558	2,4,7,9,10,13,17,21,27,26,31,34,35,37,40,41,45,55	0.92	1.44	0.22	0.17	0.05	1.84	0.32	-0.08	1.27	-0.37	1.09	-0.90	0.30	-0.30	-1.55	1.14	-0.72	**4.83**
4559	2,4,7,9,10,13,17,21,27,26,31,34,35,37,40,43,47,46,48,51	-0.04	1.44	-0.15	0.95	-0.68	0.98	0.32	-0.65	-0.63	-1.30	1.52	1.01	-0.24	-0.30	-1.55	1.14	-0.72	**1.09**
4560	2,4,7,9,10,13,17,21,27,26,31,34,35,37,40,43,47,46,48,52,53,54	-0.36	1.44	-0.50	0.56	-0.14	0.13	0.08	-0.48	-0.50	-1.30	1.20	0.05	-0.73	-0.30	-1.55	1.14	-0.72	**-1.99**
4561	2,4,7,9,10,13,17,21,27,26,31,34,35,37,40,43,47,49,53,54	-1.29	1.70	-1.37	-0.53	0.71	0.13	-0.87	0.04	-0.38	-1.20	0.10	0.05	-1.10	-0.30	-1.55	1.14	-0.72	**-5.46**
4562	2,4,7,9,10,13,17,21,27,26,31,34,35,37,40,43,50,54	-1.39	1.18	-1.39	-0.65	0.64	0.13	-0.64	-0.48	0.20	-1.16	-0.14	-0.90	-1.14	-0.30	-1.55	1.14	-0.72	**-7.18**
4563	2,4,7,9,10,13,17,21,27,26,31,34,35,37,42,46,48,51	-0.17	0.66	-0.19	0.87	-0.72	0.13	0.32	-0.65	-0.63	-1.34	1.48	1.01	-0.32	-0.30	-1.55	1.14	-0.72	**-0.98**
4564	2,4,7,9,10,13,17,21,27,26,31,34,35,37,42,46,48,52,53,54	-0.50	0.66	-0.54	0.49	-0.19	-0.73	0.08	-0.48	-0.50	-1.34	1.16	0.05	-0.80	-0.30	-1.55	1.14	-0.72	**-4.06**
4565	2,4,7,9,10,13,17,21,27,26,31,34,35,37,42,47,50,54	-1.38	0.92	-1.39	-0.56	0.69	0.13	-0.64	-0.48	0.20	-1.11	-0.12	-0.90	-1.14	-0.30	-1.55	1.14	-0.72	**-7.20**
4566	2,4,7,9,10,13,17,21,27,26,31,34,35,37,42,49,53,54	-1.42	0.66	-1.41	-0.61	0.67	-0.73	-0.87	0.04	-0.38	-1.23	0.06	0.05	-1.17	-0.30	-1.55	1.14	-0.72	**-7.79**
4567	2,4,7,9,10,13,17,21,27,26,31,34,36,39,41,40,42,46,48,51	1.16	1.44	0.94	1.13	-1.34	0.13	1.04	-0.51	-0.66	0.64	0.42	1.01	0.73	-0.30	-1.55	1.14	-0.72	**4.68**
4568	2,4,7,9,10,13,17,21,27,26,31,34,36,39,41,40,42,46,48,52,53,54	0.84	1.44	0.59	0.74	-0.80	-0.73	0.80	-0.33	-0.53	0.64	0.10	0.05	0.24	-0.30	-1.55	1.14	-0.72	**1.59**
4569	2,4,7,9,10,13,17,21,27,26,31,34,36,39,41,40,42,47,50,54	-0.05	1.70	-0.26	-0.31	0.08	0.13	0.08	-0.33	0.17	0.87	-1.19	-0.90	-0.10	-0.30	-1.55	1.14	-0.72	**-1.55**
4570	2,4,7,9,10,13,17,21,27,26,31,34,36,39,41,40,42,49,53,54	-0.09	1.44	-0.28	-0.36	0.05	-0.73	-0.16	0.19	-0.41	0.74	-1.01	0.05	-0.13	-0.30	-1.55	1.14	-0.72	**-2.13**
4571	2,4,7,9,10,13,17,21,27,26,31,34,36,39,41,43,47,46,48,51	1.17	1.70	0.94	1.21	-1.30	0.13	1.04	-0.51	-0.66	0.67	0.42	1.01	0.73	-0.30	-1.55	1.14	-0.72	**5.11**
4572	2,4,7,9,10,13,17,21,27,26,31,34,36,39,41,43,47,46,48,52,53,54	0.84	1.70	0.59	0.82	-0.76	-0.73	0.80	-0.33	-0.53	0.67	0.10	0.05	0.24	-0.30	-1.55	1.14	-0.72	**2.02**
4573	2,4,7,9,10,13,17,21,27,26,31,34,36,39,41,43,47,49,53,54	-0.09	1.96	-0.28	-0.28	0.09	-0.73	-0.16	0.19	-0.41	0.77	-1.00	0.05	-0.13	-0.30	-1.55	1.14	-0.72	**-1.44**
4574	2,4,7,9,10,13,17,21,27,26,31,34,36,39,41,43,50,54	-0.19	1.44	-0.30	-0.40	0.03	-0.73	0.08	-0.33	0.17	0.82	-1.24	-0.90	-0.17	-0.30	-1.55	1.14	-0.72	**-3.16**
4575	2,4,7,9,10,13,17,21,27,26,31,34,36,39,44,55	-1.12	0.14	0.05	-0.59	-0.08	-1.16	-1.11	-0.51	-0.08	0.79	-1.40	-0.90	-0.23	-0.30	-1.55	1.14	-0.72	**-7.64**
4576	2,4,7,9,10,13,17,21,27,26,31,34,36,39,45,55	0.58	1.18	0.89	0.43	-0.57	0.98	0.08	0.07	1.24	1.60	-0.69	-0.90	0.64	-0.30	-1.55	1.14	-0.72	**4.10**
4577	2,4,7,9,10,13,17,21,27,26,31,34,38,40,42,46,48,51	-0.13	0.66	-0.19	0.84	-0.01	0.55	0.32	-0.29	-0.30	-1.32	1.44	1.01	-0.31	-0.30	-1.55	1.14	1.40	**2.98**
4578	2,4,7,9,10,13,17,21,27,26,31,34,38,40,42,46,48,52,53,54	-0.46	0.66	-0.54	0.45	0.53	-0.30	0.08	-0.11	-0.18	-1.32	1.12	0.05	-0.79	-0.30	-1.55	1.14	1.40	**-0.11**
4579	2,4,7,9,10,13,17,21,27,26,31,34,38,40,42,47,50,54	-1.34	0.92	-1.39	-0.59	1.41	0.55	-0.64	-0.11	0.52	-1.09	-0.16	-0.90	-1.13	-0.30	-1.55	1.14	1.40	**-3.25**
4580	2,4,7,9,10,13,17,21,27,26,31,34,38,40,42,49,53,54	-1.38	0.66	-1.41	-0.65	1.38	-0.30	-0.87	0.41	-0.06	-1.22	0.02	0.05	-1.17	-0.30	-1.55	1.14	1.40	**-3.83**
4581	2,4,7,9,10,13,17,21,27,26,31,34,38,41,44,55	-0.87	-0.12	-0.66	-0.88	1.26	-0.73	-0.87	-0.29	0.27	-1.17	0.31	-0.90	-0.64	-0.30	-1.55	1.14	1.40	**-4.60**
4582	2,4,7,9,10,13,17,21,27,26,31,34,38,41,45,55	0.83	0.92	0.18	0.14	0.76	1.41	0.32	0.29	1.59	-0.36	1.02	-0.90	0.23	-0.30	-1.55	1.14	1.40	**7.14**
4583	2,4,7,9,10,13,17,21,27,26,31,34,38,43,47,46,48,51	-0.13	0.40	-0.19	0.92	0.04	0.55	0.32	-0.29	-0.30	-1.29	1.45	1.01	-0.31	-0.30	-1.55	1.14	1.40	**2.89**
4584	2,4,7,9,10,13,17,21,27,26,31,34,38,43,47,46,48,52,53,54	-0.45	0.40	-0.54	0.53	0.58	-0.30	0.08	-0.11	-0.18	-1.29	1.13	0.05	-0.79	-0.30	-1.55	1.14	1.40	**-0.20**
4585	2,4,7,9,10,13,17,21,27,26,31,34,38,43,47,49,53,54	-1.38	0.66	-1.41	-0.57	1.43	-0.30	-0.87	0.41	-0.06	-1.19	0.03	0.05	-1.16	-0.30	-1.55	1.14	1.40	**-3.67**
4586	2,4,7,9,10,13,17,21,27,26,31,34,38,43,50,54	-1.48	0.14	-1.43	-0.68	1.36	-0.30	-0.64	-0.11	0.52	-1.14	-0.22	-0.90	-1.20	-0.30	-1.55	1.14	1.40	**-5.38**
4587	2,4,7,9,10,13,17,21,27,26,33,37,40,41,44,55	-0.85	-0.64	-0.66	-0.87	0.18	-0.30	-0.64	-0.65	-0.36	-1.16	0.34	-0.90	-0.60	-0.30	-1.55	1.14	-0.72	**-8.54**
4588	2,4,7,9,10,13,17,21,27,26,33,37,40,41,45,55	0.85	0.40	0.18	0.15	-0.31	1.84	0.56	-0.08	0.97	-0.35	1.04	-0.90	0.28	-0.30	-1.55	1.14	-0.72	**3.20**
4589	2,4,7,9,10,13,17,21,27,26,33,37,40,43,47,46,48,51	-0.10	0.40	-0.18	0.93	-1.04	0.98	0.56	-0.65	-0.93	-1.29	1.47	1.01	-0.26	-0.30	-1.55	1.14	-0.72	**-0.54**
4590	2,4,7,9,10,13,17,21,27,26,33,37,40,43,47,46,48,52,53,54	-0.43	0.40	-0.54	0.54	-0.50	0.13	0.32	-0.48	-0.81	-1.29	1.15	0.05	-0.75	-0.30	-1.55	1.14	-0.72	**-3.63**
4591	2,4,7,9,10,13,17,21,27,26,33,37,40,43,47,49,53,54	-1.36	0.66	-1.40	-0.56	0.35	0.13	-0.64	0.04	-0.68	-1.18	0.04	0.05	-1.12	-0.30	-1.55	1.14	-0.72	**-7.09**
4592	2,4,7,9,10,13,17,21,27,26,33,37,40,43,50,54	-1.46	0.14	-1.42	-0.68	0.29	0.13	-0.40	-0.48	-0.10	-1.14	-0.20	-0.90	-1.16	-0.30	-1.55	1.14	-0.72	**-8.81**
4593	2,4,7,9,10,13,17,21,27,26,33,37,42,46,48,51	-0.23	-0.38	-0.22	0.85	-1.08	0.13	0.56	-0.65	-0.93	-1.32	1.43	1.01	-0.34	-0.30	-1.55	1.14	-0.72	**-2.61**
4594	2,4,7,9,10,13,17,21,27,26,33,37,42,46,48,52,53,54	-0.56	-0.38	-0.57	0.46	-0.54	-0.73	0.32	-0.48	-0.81	-1.32	1.11	0.05	-0.82	-0.30	-1.55	1.14	-0.72	**-5.70**
4595	2,4,7,9,10,13,17,21,27,26,33,37,42,47,50,54	-1.44	-0.12	-1.42	-0.58	0.34	0.13	-0.40	-0.48	-0.10	-1.09	-0.17	-0.90	-1.16	-0.30	-1.55	1.14	-0.72	**-8.84**
4596	2,4,7,9,10,13,17,21,27,26,33,37,42,49,53,54	-1.49	-0.38	-1.44	-0.64	0.31	-0.73	-0.64	0.04	-0.68	-1.22	0.01	0.05	-1.19	-0.30	-1.55	1.14	-0.72	**-9.42**
4597	2,4,7,9,10,13,17,21,28,31,30,32,46,47,50,54	0.97	1.18	0.20	-0.84	0.48	1.84	1.75	-1.07	1.20	-0.32	0.94	-0.90	0.86	0.43	-1.55	-0.77	0.98	**5.37**
4598	2,4,7,9,10,13,17,21,28,31,30,32,46,49,53,54	0.93	0.92	0.18	-0.89	0.45	0.98	1.52	-0.55	0.62	-0.45	1.10	0.05	0.82	0.43	-1.55	-0.77	0.98	**4.76**
4599	2,4,7,9,10,13,17,21,28,31,30,32,48,51	0.43	0.40	0.93	-1.48	-1.50	1.84	2.23	-1.25	0.37	-0.55	0.59	-0.90	1.33	0.43	-1.55	-0.77	0.98	**1.51**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
4600	2,4,7,9,10,13,17,21,28,31,30,32,48,52,53,54	0.10	0.40	0.57	-1.87	-0.97	0.98	1.99	-1.07	0.49	-0.55	0.27	-1.85	0.85	0.43	-1.55	-0.77	0.98	**-1.57**
4601	2,4,7,9,10,13,17,21,28,31,33,37,40,41,44,55	-0.92	-0.64	-0.73	-0.84	0.39	-0.30	-0.64	-0.65	-0.71	-0.92	0.08	-0.90	-0.69	-0.30	-1.55	-0.77	-0.72	**-10.82**
4602	2,4,7,9,10,13,17,21,28,31,33,37,40,41,45,55	0.78	0.40	0.12	0.18	-0.11	1.84	0.56	-0.08	0.61	-0.11	0.78	-0.90	0.18	-0.30	-1.55	-0.77	-0.72	**0.92**
4603	2,4,7,9,10,13,17,21,28,31,33,37,40,43,47,46,48,51	-0.17	0.40	-0.25	0.96	-0.83	0.98	0.56	-0.65	-1.28	-1.04	1.21	1.01	-0.36	-0.30	-1.55	-0.77	-0.72	**-2.82**
4604	2,4,7,9,10,13,17,21,28,31,33,37,40,43,47,46,48,52,53,54	-0.50	0.40	-0.61	0.57	-0.29	0.13	0.32	-0.48	-1.16	-1.04	0.89	0.05	-0.84	-0.30	-1.55	-0.77	-0.72	**-5.91**
4605	2,4,7,9,10,13,17,21,28,31,33,37,40,43,47,49,53,54	-1.43	0.66	-1.47	-0.53	0.56	0.13	-0.64	0.04	-1.04	-0.94	-0.21	0.05	-1.21	-0.30	-1.55	-0.77	-0.72	**-9.37**
4606	2,4,7,9,10,13,17,21,28,31,33,37,40,43,50,54	-1.53	0.14	-1.49	-0.65	0.49	0.13	-0.40	-0.48	-0.45	-0.89	-0.46	-0.90	-1.26	-0.30	-1.55	-0.77	-0.72	**-11.09**
4607	2,4,7,9,10,13,17,21,28,31,33,37,42,46,48,51	-0.31	-0.38	-0.29	0.88	-0.88	0.13	0.56	-0.65	-1.28	-1.08	1.17	1.01	-0.43	-0.30	-1.55	-0.77	-0.72	**-4.89**
4608	2,4,7,9,10,13,17,21,28,31,33,37,42,46,48,52,53,54	-0.63	-0.38	-0.64	0.49	-0.34	-0.73	0.32	-0.48	-1.16	-1.08	0.85	0.05	-0.92	-0.30	-1.55	-0.77	-0.72	**-7.98**
4609	2,4,7,9,10,13,17,21,28,31,33,37,42,47,50,54	-1.52	-0.12	-1.49	-0.56	0.54	0.13	-0.40	-0.48	-0.45	-0.84	-0.43	-0.90	-1.25	-0.30	-1.55	-0.77	-0.72	**-11.12**
4610	2,4,7,9,10,13,17,21,28,31,33,37,42,49,53,54	-1.56	-0.38	-1.51	-0.61	0.51	-0.73	-0.64	0.04	-1.04	-0.97	-0.25	0.05	-1.29	-0.30	-1.55	-0.77	-0.72	**-11.70**
4611	2,4,7,9,10,13,17,21,28,34,35,37,40,41,44,55	-0.95	-0.64	-0.72	-0.82	0.74	-0.30	-0.87	-0.65	-0.41	-0.96	0.05	-0.90	-0.74	-0.30	-1.55	-0.77	-0.72	**-10.51**
4612	2,4,7,9,10,13,17,21,28,34,35,37,40,41,45,55	0.75	0.40	0.12	0.20	0.25	1.84	0.32	-0.08	0.92	-0.15	0.76	-0.90	0.14	-0.30	-1.55	-0.77	-0.72	**1.23**
4613	2,4,7,9,10,13,17,21,28,34,35,37,40,43,47,46,48,51	-0.20	0.40	-0.24	0.98	-0.47	0.98	0.32	-0.65	-0.98	-1.08	1.18	1.01	-0.40	-0.30	-1.55	-0.77	-0.72	**-2.51**
4614	2,4,7,9,10,13,17,21,28,34,35,37,40,43,47,46,48,52,53,54	-0.53	0.40	-0.60	0.59	0.06	0.13	0.08	-0.48	-0.86	-1.08	0.87	0.05	-0.89	-0.30	-1.55	-0.77	-0.72	**-5.60**
4615	2,4,7,9,10,13,17,21,28,34,35,37,40,43,47,49,53,54	-1.46	0.66	-1.47	-0.51	0.92	0.13	-0.87	0.04	-0.73	-0.98	-0.24	0.05	-1.26	-0.30	-1.55	-0.77	-0.72	**-9.06**
4616	2,4,7,9,10,13,17,21,28,34,35,37,40,43,50,54	-1.56	0.14	-1.49	-0.63	0.85	0.13	-0.64	-0.48	-0.15	-0.94	-0.48	-0.90	-1.30	-0.30	-1.55	-0.77	-0.72	**-10.78**
4617	2,4,7,9,10,13,17,21,28,34,35,37,42,46,48,51	-0.34	-0.38	-0.28	0.90	-0.52	0.13	0.32	-0.65	-0.98	-1.12	1.15	1.01	-0.48	-0.30	-1.55	-0.77	-0.72	**-4.59**
4618	2,4,7,9,10,13,17,21,28,34,35,37,42,46,48,52,53,54	-0.66	-0.38	-0.64	0.51	0.02	-0.73	0.08	-0.48	-0.86	-1.12	0.83	0.05	-0.96	-0.30	-1.55	-0.77	-0.72	**-7.67**
4619	2,4,7,9,10,13,17,21,28,34,35,37,42,47,50,54	-1.55	-0.12	-1.48	-0.54	0.90	0.13	-0.64	-0.48	-0.15	-0.89	-0.46	-0.90	-1.30	-0.30	-1.55	-0.77	-0.72	**-10.81**
4620	2,4,7,9,10,13,17,21,28,34,35,37,42,49,53,54	-1.59	-0.38	-1.50	-0.59	0.87	-0.73	-0.87	0.04	-0.73	-1.01	-0.28	0.05	-1.33	-0.30	-1.55	-0.77	-0.72	**-11.40**
4621	2,4,7,9,10,13,17,21,28,34,36,39,41,40,42,46,48,51	1.00	0.40	0.85	1.15	-1.14	0.13	1.04	-0.51	-1.01	0.86	0.08	1.01	0.57	-0.30	-1.55	-0.77	-0.72	**1.07**
4622	2,4,7,9,10,13,17,21,28,34,36,39,41,40,42,46,48,52,53,54	0.67	0.40	0.49	0.77	-0.60	-0.73	0.80	-0.33	-0.89	0.86	-0.24	0.05	0.08	-0.30	-1.55	-0.77	-0.72	**-2.01**
4623	2,4,7,9,10,13,17,21,28,34,36,39,41,40,42,47,50,54	-0.21	0.66	-0.36	-0.28	0.28	0.13	0.08	-0.33	-0.18	1.09	-1.53	-0.90	-0.25	-0.30	-1.55	-0.77	-0.72	**-5.15**
4624	2,4,7,9,10,13,17,21,28,34,36,39,41,40,42,49,53,54	-0.26	0.40	-0.38	-0.33	0.25	-0.73	-0.16	0.19	-0.76	0.96	-1.34	0.05	-0.29	-0.30	-1.55	-0.77	-0.72	**-5.74**
4625	2,4,7,9,10,13,17,21,28,34,36,39,41,43,47,46,48,51	1.00	0.66	0.85	1.23	-1.09	0.13	1.04	-0.51	-1.01	0.89	0.09	1.01	0.57	-0.30	-1.55	-0.77	-0.72	**1.50**
4626	2,4,7,9,10,13,17,21,28,34,36,39,41,43,47,46,48,52,53,54	0.67	0.66	0.49	0.85	-0.55	-0.73	0.80	-0.33	-0.89	0.89	-0.23	0.05	0.09	-0.30	-1.55	-0.77	-0.72	**-1.59**
4627	2,4,7,9,10,13,17,21,28,34,36,39,41,43,47,49,53,54	-0.25	0.92	-0.38	-0.25	0.30	-0.73	-0.16	0.19	-0.76	0.99	-1.34	0.05	-0.28	-0.30	-1.55	-0.77	-0.72	**-5.05**
4628	2,4,7,9,10,13,17,21,28,34,36,39,41,43,50,54	-0.35	0.40	-0.39	-0.37	0.23	-0.73	0.08	-0.33	-0.18	1.04	-1.58	-0.90	-0.33	-0.30	-1.55	-0.77	-0.72	**-6.77**
4629	2,4,7,9,10,13,17,21,28,34,36,39,44,55	-1.29	-0.90	-0.05	-0.56	0.13	-1.16	-1.11	-0.51	-0.44	1.01	-1.73	-0.90	-0.39	-0.30	-1.55	-0.77	-0.72	**-11.25**
4630	2,4,7,9,10,13,17,21,28,34,36,39,45,55	0.41	0.14	0.80	0.46	-0.37	0.98	0.08	0.07	0.89	1.82	-1.03	-0.90	0.48	-0.30	-1.55	-0.77	-0.72	**0.49**
4631	2,4,7,9,10,13,17,21,28,34,38,40,42,46,48,51	-0.30	-0.38	-0.28	0.87	0.20	0.55	0.32	-0.29	-0.66	-1.11	1.11	1.01	-0.47	-0.30	-1.55	-0.77	1.40	**-0.63**
4632	2,4,7,9,10,13,17,21,28,34,38,40,42,46,48,52,53,54	-0.62	-0.38	-0.64	0.48	0.74	-0.30	0.08	-0.11	-0.53	-1.11	0.79	0.05	-0.95	-0.30	-1.55	-0.77	1.40	**-3.72**
4633	2,4,7,9,10,13,17,21,28,34,38,40,42,47,50,54	-1.51	-0.12	-1.49	-0.57	1.62	0.55	-0.64	-0.11	0.17	-0.87	-0.50	-0.90	-1.29	-0.30	-1.55	-0.77	1.40	**-6.86**
4634	2,4,7,9,10,13,17,21,28,34,38,40,42,49,53,54	-1.55	-0.38	-1.51	-0.62	1.59	-0.30	-0.87	0.41	-0.41	-1.00	-0.32	0.05	-1.32	-0.30	-1.55	-0.77	1.40	**-7.44**
4635	2,4,7,9,10,13,17,21,28,34,38,41,44,55	-1.04	-1.15	-0.76	-0.85	1.46	-0.73	-0.87	-0.29	-0.08	-0.95	-0.02	-0.90	-0.80	-0.30	-1.55	-0.77	1.40	**-8.21**
4636	2,4,7,9,10,13,17,21,28,34,38,41,45,55	0.66	-0.12	0.08	0.17	0.97	1.41	0.32	0.29	1.24	-0.14	0.68	-0.90	0.08	-0.30	-1.55	-0.77	1.40	**3.53**
4637	2,4,7,9,10,13,17,21,28,34,38,43,47,46,48,51	-0.29	-0.64	-0.28	0.95	0.24	0.55	0.32	-0.29	-0.66	-1.07	1.11	1.01	-0.46	-0.30	-1.55	-0.77	1.40	**-0.72**
4638	2,4,7,9,10,13,17,21,28,34,38,43,47,46,48,52,53,54	-0.62	-0.64	-0.64	0.56	0.78	-0.30	0.08	-0.11	-0.53	-1.07	0.79	0.05	-0.95	-0.30	-1.55	-0.77	1.40	**-3.81**
4639	2,4,7,9,10,13,17,21,28,34,38,43,47,49,53,54	-1.55	-0.38	-1.50	-0.54	1.63	-0.30	-0.87	0.41	-0.41	-0.97	-0.31	0.05	-1.32	-0.30	-1.55	-0.77	1.40	**-7.27**
4640	2,4,7,9,10,13,17,21,28,34,38,43,50,54	-1.65	-0.90	-1.52	-0.66	1.57	-0.30	-0.64	-0.11	0.17	-0.92	-0.55	-0.90	-1.36	-0.30	-1.55	-0.77	1.40	**-8.99**
4641	2,4,7,9,10,15,23,26,30,32,46,47,50,54	0.97	1.18	0.30	-1.41	0.21	0.98	1.04	-0.31	1.86	-0.12	0.53	-0.90	0.91	0.23	-1.55	1.14	0.98	**6.02**
4642	2,4,7,9,10,15,23,26,30,32,46,49,53,54	0.92	0.92	0.28	-1.46	0.18	0.13	0.80	0.21	1.28	-0.25	0.69	0.05	0.87	0.23	-1.55	1.14	0.98	**5.42**
4643	2,4,7,9,10,15,23,26,30,32,48,51	0.42	0.40	1.03	-2.06	-1.77	0.98	1.52	-0.49	1.03	-0.35	0.18	-0.90	1.38	0.23	-1.55	1.14	0.98	**2.17**
4644	2,4,7,9,10,15,23,26,30,32,48,52,53,54	0.10	0.40	0.68	-2.44	-1.24	0.13	1.28	-0.31	1.15	-0.35	-0.14	-1.85	0.90	0.23	-1.55	1.14	0.98	**-0.92**
4645	2,4,7,9,10,15,23,26,31,34,35,37,40,41,44,55	-0.86	-0.12	-0.59	-1.39	0.47	-1.16	-1.59	0.11	0.25	-0.74	-0.28	-0.90	-0.62	-0.50	-1.55	1.14	-0.72	**-9.05**
4646	2,4,7,9,10,15,23,26,31,34,35,37,40,41,45,55	0.84	0.92	0.25	-0.37	-0.02	0.98	-0.40	0.68	1.58	0.07	0.43	-0.90	0.25	-0.50	-1.55	1.14	-0.72	**2.69**
4647	2,4,7,9,10,15,23,26,31,34,35,37,40,43,47,46,48,51	-0.11	0.92	-0.11	0.40	-0.74	0.13	-0.40	0.11	-0.32	-0.86	0.85	1.01	-0.29	-0.50	-1.55	1.14	-0.72	**-1.05**
4648	2,4,7,9,10,15,23,26,31,34,35,37,40,43,47,46,48,52,53,54	-0.44	0.92	-0.47	0.02	-0.21	-0.73	-0.64	0.29	-0.20	-0.86	0.54	0.05	-0.77	-0.50	-1.55	1.14	-0.72	**-4.14**
4649	2,4,7,9,10,15,23,26,31,34,35,37,40,43,47,49,53,54	-1.37	1.18	-1.34	-1.08	0.65	-0.73	-1.59	0.81	-0.07	-0.76	-0.57	0.05	-1.14	-0.50	-1.55	1.14	-0.72	**-7.60**
4650	2,4,7,9,10,15,23,26,31,34,35,37,40,43,50,54	-1.47	0.66	-1.36	-1.20	0.58	-0.73	-1.35	0.29	0.51	-0.71	-0.81	-0.90	-1.19	-0.50	-1.55	1.14	-0.72	**-9.32**
4651	2,4,7,9,10,15,23,26,31,34,35,37,42,46,48,51	-0.25	0.14	-0.15	0.32	-0.79	-0.73	-0.40	0.11	-0.32	-0.89	0.82	1.01	-0.36	-0.50	-1.55	1.14	-0.72	**-3.12**
4652	2,4,7,9,10,15,23,26,31,34,35,37,42,46,48,52,53,54	-0.57	0.14	-0.51	-0.06	-0.25	-1.59	-0.64	0.29	-0.20	-0.89	0.50	0.05	-0.85	-0.50	-1.55	1.14	-0.72	**-6.21**
4653	2,4,7,9,10,15,23,26,31,34,35,37,42,47,50,54	-1.46	0.40	-1.36	-1.11	0.63	-0.73	-1.35	0.29	0.51	-0.66	-0.79	-0.90	-1.18	-0.50	-1.55	1.14	-0.72	**-9.35**
4654	2,4,7,9,10,15,23,26,31,34,35,37,42,49,53,54	-1.50	0.14	-1.37	-1.16	0.60	-1.59	-1.59	0.81	-0.07	-0.79	-0.61	0.05	-1.22	-0.50	-1.55	1.14	-0.72	**-9.93**
4655	2,4,7,9,10,15,23,26,31,34,36,39,41,40,42,46,48,51	1.09	0.92	0.98	0.58	-1.40	-0.73	0.32	0.25	-0.35	1.08	-0.25	1.01	0.68	-0.50	-1.55	1.14	-0.72	**2.53**
4656	2,4,7,9,10,15,23,26,31,34,36,39,41,40,42,46,48,52,53,54	0.76	0.92	0.62	0.19	-0.87	-1.59	0.08	0.43	-0.23	1.08	-0.57	0.05	0.20	-0.50	-1.55	1.14	-0.72	**-0.55**
4657	2,4,7,9,10,15,23,26,31,34,36,39,41,40,42,47,50,54	-0.12	1.18	-0.23	-0.86	0.01	-0.73	-0.64	0.43	0.48	1.31	-1.86	-0.90	-0.14	-0.50	-1.55	1.14	-0.72	**-3.69**
4658	2,4,7,9,10,15,23,26,31,34,36,39,41,40,42,49,53,54	-0.17	0.92	-0.25	-0.91	-0.02	-1.59	-0.87	0.95	-0.10	1.18	-1.67	0.05	-0.18	-0.50	-1.55	1.14	-0.72	**-4.28**
4659	2,4,7,9,10,15,23,26,31,34,36,39,41,43,47,46,48,51	1.09	1.18	0.98	0.66	-1.36	-0.73	0.32	0.25	-0.35	1.11	-0.24	1.01	0.68	-0.50	-1.55	1.14	-0.72	**2.96**
4660	2,4,7,9,10,15,23,26,31,34,36,39,41,43,47,46,48,52,53,54	0.76	1.18	0.62	0.27	-0.82	-1.59	0.08	0.43	-0.23	1.11	-0.56	0.05	0.20	-0.50	-1.55	1.14	-0.72	**-0.12**
4661	2,4,7,9,10,15,23,26,31,34,36,39,41,43,47,49,53,54	-0.16	1.44	-0.25	-0.83	0.03	-1.59	-0.87	0.95	-0.10	1.22	-1.67	0.05	-0.17	-0.50	-1.55	1.14	-0.72	**-3.59**
4662	2,4,7,9,10,15,23,26,31,34,36,39,41,43,50,54	-0.26	0.92	-0.26	-0.95	-0.04	-1.59	-0.64	0.43	0.48	1.26	-1.91	-0.90	-0.22	-0.50	-1.55	1.14	-0.72	**-5.31**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
4663	2,4,7,9,10,15,23,26,31,34,36,39,44,55	-1.20	-0.38	0.08	-1.14	-0.14	-2.02	-1.83	0.25	0.22	1.24	-2.06	-0.90	-0.28	-0.50	-1.55	1.14	-0.72	**-9.78**
4664	2,4,7,9,10,15,23,26,31,34,36,39,45,55	0.50	0.66	0.93	-0.12	-0.63	0.13	-0.64	0.83	1.55	2.05	-1.36	-0.90	0.60	-0.50	-1.55	1.14	-0.72	**1.95**
4665	2,4,7,9,10,15,23,26,31,34,38,40,42,46,48,51	-0.21	0.14	-0.15	0.29	-0.07	-0.30	-0.40	0.48	0.00	-0.88	0.78	1.01	-0.35	-0.50	-1.55	1.14	1.40	**0.83**
4666	2,4,7,9,10,15,23,26,31,34,38,40,42,46,48,52,53,54	-0.53	0.14	-0.51	-0.09	0.47	-1.16	-0.64	0.65	0.12	-0.88	0.46	0.05	-0.84	-0.50	-1.55	1.14	1.40	**-2.25**
4667	2,4,7,9,10,15,23,26,31,34,38,40,42,47,50,54	-1.42	0.40	-1.36	-1.14	1.35	-0.30	-1.35	0.65	0.83	-0.65	-0.83	-0.90	-1.18	-0.50	-1.55	1.14	1.40	**-5.39**
4668	2,4,7,9,10,15,23,26,31,34,38,40,42,49,53,54	-1.46	0.14	-1.38	-1.19	1.32	-1.16	-1.59	1.17	0.25	-0.78	-0.65	0.05	-1.21	-0.50	-1.55	1.14	1.40	**-5.98**
4669	2,4,7,9,10,15,23,26,31,34,38,41,44,55	-0.95	-0.64	-0.63	-1.42	1.19	-1.59	-1.59	0.48	0.58	-0.73	-0.35	-0.90	-0.69	-0.50	-1.55	1.14	1.40	**-6.74**
4670	2,4,7,9,10,15,23,26,31,34,38,41,45,55	0.75	0.40	0.21	-0.41	0.70	0.55	-0.40	1.05	1.90	0.09	0.35	-0.90	0.19	-0.50	-1.55	1.14	1.40	**4.99**
4671	2,4,7,9,10,15,23,26,31,34,38,43,47,46,48,51	-0.20	-0.12	-0.15	0.37	-0.03	-0.30	-0.40	0.48	0.00	-0.85	0.78	1.01	-0.35	-0.50	-1.55	1.14	1.40	**0.74**
4672	2,4,7,9,10,15,23,26,31,34,38,43,47,46,48,52,53,54	-0.53	-0.12	-0.51	-0.01	0.51	-1.16	-0.64	0.65	0.12	-0.85	0.46	0.05	-0.84	-0.50	-1.55	1.14	1.40	**-2.35**
4673	2,4,7,9,10,15,23,26,31,34,38,43,47,49,53,54	-1.46	0.14	-1.37	-1.11	1.36	-1.16	-1.59	1.17	0.25	-0.74	-0.64	0.05	-1.21	-0.50	-1.55	1.14	1.40	**-5.81**
4674	2,4,7,9,10,15,23,26,31,34,38,43,50,54	-1.56	-0.38	-1.39	-1.23	1.30	-1.16	-1.35	0.65	0.83	-0.70	-0.88	-0.90	-1.25	-0.50	-1.55	1.14	1.40	**-7.53**
4675	2,4,7,9,10,15,23,26,33,37,40,41,44,55	-0.92	-1.15	-0.62	-1.42	0.12	-1.16	-1.35	0.11	-0.05	-0.72	-0.33	-0.90	-0.64	-0.50	-1.55	1.14	-0.72	**-10.68**
4676	2,4,7,9,10,15,23,26,33,37,40,41,45,55	0.78	-0.12	0.22	-0.40	-0.37	0.98	-0.16	0.68	1.27	0.09	0.38	-0.90	0.23	-0.50	-1.55	1.14	-0.72	**1.06**
4677	2,4,7,9,10,15,23,26,33,37,40,43,47,46,48,51	-0.18	-0.12	-0.15	0.38	-1.10	0.13	-0.16	0.11	-0.62	-0.84	0.80	1.01	-0.31	-0.50	-1.55	1.14	-0.72	**-2.68**
4678	2,4,7,9,10,15,23,26,33,37,40,43,47,46,48,52,53,54	-0.50	-0.12	-0.50	-0.01	-0.56	-0.73	-0.40	0.29	-0.50	-0.84	0.48	0.05	-0.79	-0.50	-1.55	1.14	-0.72	**-5.77**
4679	2,4,7,9,10,15,23,26,33,37,40,43,47,49,53,54	-1.43	0.14	-1.37	-1.11	0.29	-0.73	-1.35	0.81	-0.38	-0.74	-0.62	0.05	-1.17	-0.50	-1.55	1.14	-0.72	**-9.24**
4680	2,4,7,9,10,15,23,26,33,37,40,43,50,54	-1.53	-0.38	-1.39	-1.22	0.22	-0.73	-1.11	0.29	0.21	-0.70	-0.86	-0.90	-1.21	-0.50	-1.55	1.14	-0.72	**-10.95**
4681	2,4,7,9,10,15,23,26,33,37,42,46,48,51	-0.31	-0.90	-0.18	0.30	-1.14	-0.73	-0.16	0.11	-0.62	-0.88	0.76	1.01	-0.38	-0.50	-1.55	1.14	-0.72	**-4.76**
4682	2,4,7,9,10,15,23,26,33,37,42,46,48,52,53,54	-0.64	-0.90	-0.54	-0.09	-0.61	-1.59	-0.40	0.29	-0.50	-0.88	0.45	0.05	-0.87	-0.50	-1.55	1.14	-0.72	**-7.84**
4683	2,4,7,9,10,15,23,26,33,37,42,47,50,54	-1.52	-0.64	-1.39	-1.13	0.27	-0.73	-1.11	0.29	0.21	-0.64	-0.84	-0.90	-1.20	-0.50	-1.55	1.14	-0.72	**-10.98**
4684	2,4,7,9,10,15,23,26,33,37,42,49,53,54	-1.56	-0.90	-1.41	-1.18	0.24	-1.59	-1.35	0.81	-0.38	-0.77	-0.66	0.05	-1.24	-0.50	-1.55	1.14	-0.72	**-11.57**
4685	2,4,7,9,10,15,23,27,28,31,30,32,46,47,50,54	1.00	1.18	0.26	-1.38	0.41	0.98	1.04	-0.31	1.50	0.25	0.27	-0.90	0.87	0.23	-1.55	-0.77	0.98	**4.07**
4686	2,4,7,9,10,15,23,27,28,31,30,32,46,49,53,54	0.96	0.92	0.24	-1.44	0.39	0.13	0.80	0.21	0.92	0.12	0.43	0.05	0.84	0.23	-1.55	-0.77	0.98	**3.46**
4687	2,4,7,9,10,15,23,27,28,31,30,32,48,51	0.46	0.40	0.99	-2.03	-1.57	0.98	1.52	-0.49	0.68	0.02	-0.08	-0.90	1.35	0.23	-1.55	-0.77	0.98	**0.21**
4688	2,4,7,9,10,15,23,27,28,31,30,32,48,52,53,54	0.13	0.40	0.64	-2.42	-1.03	0.13	1.28	-0.31	0.80	0.02	-0.40	-1.85	0.86	0.23	-1.55	-0.77	0.98	**-2.88**
4689	2,4,7,9,10,15,23,27,28,31,33,37,40,41,44,55	-0.89	-0.64	-0.66	-1.39	0.32	-1.16	-1.35	0.11	-0.40	-0.35	-0.59	-0.90	-0.68	-0.50	-1.55	-0.77	-0.72	**-12.12**
4690	2,4,7,9,10,15,23,27,28,31,33,37,40,41,45,55	0.81	0.40	0.18	-0.37	-0.17	0.98	-0.16	0.68	0.92	0.46	0.12	-0.90	0.20	-0.50	-1.55	-0.77	-0.72	**-0.38**
4691	2,4,7,9,10,15,23,27,28,31,33,37,40,43,47,46,48,51	-0.14	0.40	-0.19	0.41	-0.90	0.13	-0.16	0.11	-0.98	-0.47	0.54	1.01	-0.34	-0.50	-1.55	-0.77	-0.72	**-4.12**
4692	2,4,7,9,10,15,23,27,28,31,33,37,40,43,47,46,48,52,53,54	-0.47	0.40	-0.54	0.02	-0.36	-0.73	-0.40	0.29	-0.85	-0.47	0.22	0.05	-0.83	-0.50	-1.55	-0.77	-0.72	**-7.21**
4693	2,4,7,9,10,15,23,27,28,31,33,37,40,43,47,49,53,54	-1.40	0.66	-1.41	-1.08	0.49	-0.73	-1.35	0.81	-0.73	-0.37	-0.88	0.05	-1.20	-0.50	-1.55	-0.77	-0.72	**-10.67**
4694	2,4,7,9,10,15,23,27,28,31,33,37,40,43,50,54	-1.50	0.14	-1.43	-1.20	0.43	-0.73	-1.11	0.29	-0.15	-0.33	-1.12	-0.90	-1.24	-0.50	-1.55	-0.77	-0.72	**-12.39**
4695	2,4,7,9,10,15,23,27,28,31,33,37,42,46,48,51	-0.28	-0.38	-0.22	0.33	-0.94	-0.73	-0.16	0.11	-0.98	-0.51	0.51	1.01	-0.42	-0.50	-1.55	-0.77	-0.72	**-6.20**
4696	2,4,7,9,10,15,23,27,28,31,33,37,42,46,48,52,53,54	-0.60	-0.38	-0.58	-0.06	-0.40	-1.59	-0.40	0.29	-0.85	-0.51	0.19	0.05	-0.90	-0.50	-1.55	-0.77	-0.72	**-9.28**
4697	2,4,7,9,10,15,23,27,28,31,33,37,42,47,50,54	-1.49	-0.12	-1.43	-1.11	0.48	-0.73	-1.11	0.29	-0.15	-0.27	-1.10	-0.90	-1.24	-0.50	-1.55	-0.77	-0.72	**-12.42**
4698	2,4,7,9,10,15,23,27,28,31,33,37,42,49,53,54	-1.53	-0.38	-1.45	-1.16	0.45	-1.59	-1.35	0.81	-0.73	-0.40	-0.92	0.05	-1.27	-0.50	-1.55	-0.77	-0.72	**-13.01**
4699	2,4,7,9,10,15,23,27,28,34,35,37,40,41,44,55	-0.92	-0.64	-0.66	-1.37	0.68	-1.16	-1.59	0.11	-0.10	-0.39	-0.61	-0.90	-0.72	-0.50	-1.55	-0.77	-0.72	**-11.81**
4700	2,4,7,9,10,15,23,27,28,34,35,37,40,41,45,55	0.78	0.40	0.19	-0.35	0.19	0.98	-0.40	0.68	1.22	0.42	0.09	-0.90	0.15	-0.50	-1.55	-0.77	-0.72	**-0.08**
4701	2,4,7,9,10,15,23,27,28,34,35,37,40,43,47,46,48,51	-0.17	0.40	-0.18	0.43	-0.54	0.13	-0.40	0.11	-0.67	-0.52	0.52	1.01	-0.39	-0.50	-1.55	-0.77	-0.72	**-3.82**
4702	2,4,7,9,10,15,23,27,28,34,35,37,40,43,47,46,48,52,53,54	-0.50	0.40	-0.54	0.04	0.00	-0.73	-0.64	0.29	-0.55	-0.52	0.20	0.05	-0.87	-0.50	-1.55	-0.77	-0.72	**-6.90**
4703	2,4,7,9,10,15,23,27,28,34,35,37,40,43,47,49,53,54	-1.43	0.66	-1.40	-1.06	0.85	-0.73	-1.59	0.81	-0.43	-0.41	-0.90	0.05	-1.24	-0.50	-1.55	-0.77	-0.72	**-10.37**
4704	2,4,7,9,10,15,23,27,28,34,35,37,40,43,50,54	-1.53	0.14	-1.42	-1.17	0.79	-0.73	-1.35	0.29	0.15	-0.37	-1.15	-0.90	-1.29	-0.50	-1.55	-0.77	-0.72	**-12.09**
4705	2,4,7,9,10,15,23,27,28,34,35,37,42,46,48,51	-0.30	-0.38	-0.22	0.35	-0.58	-0.73	-0.40	0.11	-0.67	-0.55	0.48	1.01	-0.46	-0.50	-1.55	-0.77	-0.72	**-5.89**
4706	2,4,7,9,10,15,23,27,28,34,35,37,42,46,48,52,53,54	-0.63	-0.38	-0.57	-0.04	-0.04	-1.59	-0.64	0.29	-0.55	-0.55	0.16	0.05	-0.95	-0.50	-1.55	-0.77	-0.72	**-8.97**
4707	2,4,7,9,10,15,23,27,28,34,35,37,42,47,50,54	-1.51	-0.12	-1.42	-1.08	0.84	-0.73	-1.35	0.29	0.15	-0.32	-1.12	-0.90	-1.28	-0.50	-1.55	-0.77	-0.72	**-12.11**
4708	2,4,7,9,10,15,23,27,28,34,35,37,42,49,53,54	-1.56	-0.38	-1.44	-1.14	0.81	-1.59	-1.59	0.81	-0.43	-0.44	-0.94	0.05	-1.32	-0.50	-1.55	-0.77	-0.72	**-12.70**
4709	2,4,7,9,10,15,23,27,28,34,36,39,41,40,42,46,48,51	1.03	0.40	0.91	0.61	-1.20	-0.73	0.32	0.25	-0.70	1.43	-0.59	1.01	0.58	-0.50	-1.55	-0.77	-0.72	**-0.23**
4710	2,4,7,9,10,15,23,27,28,34,36,39,41,40,42,46,48,52,53,54	0.70	0.40	0.55	0.22	-0.66	-1.59	0.08	0.43	-0.58	1.43	-0.90	0.05	0.10	-0.50	-1.55	-0.77	-0.72	**-3.32**
4711	2,4,7,9,10,15,23,27,28,34,36,39,41,40,42,47,50,54	-0.18	0.66	-0.29	-0.83	0.22	-0.73	-0.64	0.43	0.12	1.66	-2.19	-0.90	-0.24	-0.50	-1.55	-0.77	-0.72	**-6.46**
4712	2,4,7,9,10,15,23,27,28,34,36,39,41,40,42,49,53,54	-0.22	0.40	-0.31	-0.88	0.19	-1.59	-0.87	0.95	-0.46	1.53	-2.01	0.05	-0.27	-0.50	-1.55	-0.77	-0.72	**-7.04**
4713	2,4,7,9,10,15,23,27,28,34,36,39,41,43,47,46,48,51	1.03	0.66	0.91	0.69	-1.16	-0.73	0.32	0.25	-0.70	1.46	-0.58	1.01	0.59	-0.50	-1.55	-0.77	-0.72	**0.20**
4714	2,4,7,9,10,15,23,27,28,34,36,39,41,43,47,46,48,52,53,54	0.71	0.66	0.56	0.30	-0.62	-1.59	0.08	0.43	-0.58	1.46	-0.90	0.05	0.10	-0.50	-1.55	-0.77	-0.72	**-2.89**
4715	2,4,7,9,10,15,23,27,28,34,36,39,41,43,47,49,53,54	-0.22	0.92	-0.31	-0.80	0.23	-1.59	-0.87	0.95	-0.46	1.56	-2.00	0.05	-0.27	-0.50	-1.55	-0.77	-0.72	**-6.35**
4716	2,4,7,9,10,15,23,27,28,34,36,39,41,43,50,54	-0.32	0.40	-0.33	-0.92	0.17	-1.59	-0.64	0.43	0.12	1.61	-2.25	-0.90	-0.31	-0.50	-1.55	-0.77	-0.72	**-8.07**
4717	2,4,7,9,10,15,23,27,28,34,36,39,44,55	-1.26	-0.90	0.02	-1.11	0.06	-2.02	-1.83	0.25	-0.13	1.58	-2.40	-0.90	-0.38	-0.50	-1.55	-0.77	-0.72	**-12.55**
4718	2,4,7,9,10,15,23,27,28,34,36,39,45,55	0.44	0.14	0.86	-0.09	-0.43	0.13	-0.64	0.83	1.19	2.39	-1.69	-0.90	0.50	-0.50	-1.55	-0.77	-0.72	**-0.81**
4719	2,4,7,9,10,15,23,27,28,34,38,40,42,46,48,51	-0.26	-0.38	-0.22	0.32	0.14	-0.30	-0.40	0.48	-0.35	-0.54	0.44	1.01	-0.45	-0.50	-1.55	-0.77	1.40	**-1.93**
4720	2,4,7,9,10,15,23,27,28,34,38,40,42,46,48,52,53,54	-0.59	-0.38	-0.57	-0.07	0.67	-1.16	-0.64	0.65	-0.23	-0.54	0.12	0.05	-0.94	-0.50	-1.55	-0.77	1.40	**-5.02**
4721	2,4,7,9,10,15,23,27,28,34,38,40,42,47,50,54	-1.47	-0.12	-1.42	-1.11	1.55	-0.30	-1.35	0.65	0.48	-0.30	-1.16	-0.90	-1.27	-0.50	-1.55	-0.77	1.40	**-8.16**
4722	2,4,7,9,10,15,23,27,28,34,38,40,42,49,53,54	-1.52	-0.38	-1.44	-1.17	1.53	-1.16	-1.59	1.17	-0.10	-0.43	-0.98	0.05	-1.31	-0.50	-1.55	-0.77	1.40	**-8.75**
4723	2,4,7,9,10,15,23,27,28,34,38,41,44,55	-1.01	-1.15	-0.69	-1.40	1.40	-1.59	-1.59	0.48	0.22	-0.38	-0.69	-0.90	-0.78	-0.50	-1.55	-0.77	1.40	**-9.51**
4724	2,4,7,9,10,15,23,27,28,34,38,41,45,55	0.69	-0.12	0.15	-0.38	0.91	0.55	-0.40	1.05	1.55	0.43	0.02	-0.90	0.09	-0.50	-1.55	-0.77	1.40	**2.23**
4725	2,4,7,9,10,15,23,27,28,34,38,43,47,46,48,51	-0.26	-0.64	-0.22	0.40	0.18	-0.30	-0.40	0.48	-0.35	-0.50	0.45	1.01	-0.45	-0.50	-1.55	-0.77	1.40	**-2.03**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
4726	2,4,7,9,10,15,23,27,28,34,38,43,47,46,48,52,53,54	-0.59	-0.64	-0.57	0.01	0.72	-1.16	-0.64	0.65	-0.23	-0.50	0.13	0.05	-0.93	-0.50	-1.55	-0.77	1.40	**-5.11**
4727	2,4,7,9,10,15,23,27,28,34,38,43,47,49,53,54	-1.52	-0.38	-1.44	-1.09	1.57	-1.16	-1.59	1.17	-0.10	-0.40	-0.98	0.05	-1.31	-0.50	-1.55	-0.77	1.40	**-8.58**
4728	2,4,7,9,10,15,23,27,28,34,38,43,50,54	-1.62	-0.90	-1.46	-1.21	1.50	-1.16	-1.35	0.65	0.48	-0.36	-1.22	-0.90	-1.35	-0.50	-1.55	-0.77	1.40	**-10.30**
4729	2,4,7,9,10,16,18,19,22,24,29,36,35,37,40,41,44,55	0.73	0.14	0.51	-1.13	-0.14	-0.30	-0.40	-1.01	-0.09	-0.51	0.34	-0.90	0.98	2.30	-1.55	-0.77	-0.72	**-2.53**
4730	2,4,7,9,10,16,18,19,22,24,29,36,35,37,40,41,45,55	2.43	1.18	1.35	-0.11	-0.63	1.84	0.80	-0.44	1.23	0.30	1.05	-0.90	1.86	2.30	-1.55	-0.77	-0.72	**9.21**
4731	2,4,7,9,10,16,18,19,22,24,29,36,35,37,40,43,47,46,48,51	1.47	1.18	0.99	0.67	-1.36	0.98	0.80	-1.01	-0.66	-0.64	1.47	1.01	1.32	2.30	-1.55	-0.77	-0.72	**5.47**
4732	2,4,7,9,10,16,18,19,22,24,29,36,35,37,40,43,47,46,48,52,53,54	1.14	1.18	0.63	0.28	-0.82	0.13	0.56	-0.83	-0.54	-0.64	1.15	0.05	0.83	2.30	-1.55	-0.77	-0.72	**2.39**
4733	2,4,7,9,10,16,18,19,22,24,29,36,35,37,40,43,47,49,53,54	0.22	1.44	-0.24	-0.82	0.03	0.13	0.13	-0.40	-0.31	-0.42	-0.53	0.05	0.05	0.46	2.30	-1.55	-0.77	-0.72	**-1.08**
4734	2,4,7,9,10,16,18,19,22,24,29,36,35,37,40,43,50,54	0.12	0.92	-0.26	-0.94	-0.03	0.13	-0.16	-0.83	0.17	-0.49	-0.19	-0.90	0.42	2.30	-1.55	-0.77	-0.72	**-2.80**
4735	2,4,7,9,10,16,18,19,22,24,29,36,35,37,42,46,48,51	1.34	0.40	0.95	0.59	-1.40	0.13	0.80	-1.01	-0.66	-0.67	1.44	1.01	1.24	2.30	-1.55	-0.77	-0.72	**3.40**
4736	2,4,7,9,10,16,18,19,22,24,29,36,35,37,42,46,48,52,53,54	1.01	0.40	0.59	0.20	-0.86	-0.73	0.56	-0.83	-0.54	-0.67	1.12	0.05	0.76	2.30	-1.55	-0.77	-0.72	**0.31**
4737	2,4,7,9,10,16,18,19,22,24,29,36,35,37,42,47,50,54	0.13	0.66	-0.25	-0.85	0.02	0.13	-0.16	-0.83	0.17	-0.44	-0.17	-0.90	0.42	2.30	-1.55	-0.77	-0.72	**-2.83**
4738	2,4,7,9,10,16,18,19,22,24,29,36,35,37,42,49,53,54	0.08	0.40	-0.27	-0.90	-0.01	-0.73	-0.40	-0.31	-0.42	-0.57	0.01	0.05	0.39	2.30	-1.55	-0.77	-0.72	**-3.41**
4739	2,4,7,9,10,16,18,19,22,24,29,36,38,40,42,46,48,51	1.38	0.66	0.95	0.56	-0.68	0.55	0.80	-0.64	-0.34	-0.66	1.40	1.01	1.25	2.30	-1.55	-0.77	1.40	**7.61**
4740	2,4,7,9,10,16,18,19,22,24,29,36,38,40,42,46,48,52,53,54	1.05	0.66	0.59	0.17	-0.15	-0.30	0.56	-0.47	-0.22	-0.66	1.08	0.05	0.77	2.30	-1.55	-0.77	1.40	**4.53**
4741	2,4,7,9,10,16,18,19,22,24,29,36,38,40,42,47,50,54	0.17	0.92	-0.26	-0.88	0.73	0.55	-0.16	-0.47	0.49	-0.43	-0.21	-0.90	0.43	2.30	-1.55	-0.77	1.40	**1.39**
4742	2,4,7,9,10,16,18,19,22,24,29,36,38,40,42,49,53,54	0.12	0.66	-0.27	-0.93	0.70	-0.30	-0.40	0.05	-0.09	-0.55	-0.03	0.05	0.39	2.30	-1.55	-0.77	1.40	**0.80**
4743	2,4,7,9,10,16,18,19,22,24,29,36,38,41,44,55	0.64	-0.12	0.48	-1.16	0.58	-0.73	-0.40	-0.64	0.23	-0.50	0.26	-0.90	0.92	2.30	-1.55	-0.77	1.40	**0.04**
4744	2,4,7,9,10,16,18,19,22,24,29,36,38,41,45,55	2.34	0.92	1.32	-0.14	0.09	1.41	0.80	-0.07	1.56	0.31	0.97	-0.90	1.80	2.30	-1.55	-0.77	1.40	**11.77**
4745	2,4,7,9,10,16,18,19,22,24,29,36,38,43,47,46,48,51	1.38	0.40	0.95	0.64	-0.64	0.55	0.80	-0.64	-0.34	-0.63	1.40	1.01	1.25	2.30	-1.55	-0.77	1.40	**7.52**
4746	2,4,7,9,10,16,18,19,22,24,29,36,38,43,47,46,48,52,53,54	1.05	0.40	0.59	0.25	-0.10	-0.30	0.56	-0.47	-0.22	-0.63	1.08	0.05	0.77	2.30	-1.55	-0.77	1.40	**4.43**
4747	2,4,7,9,10,16,18,19,22,24,29,36,38,43,47,49,53,54	0.13	0.66	-0.27	-0.85	0.75	-0.30	-0.40	0.05	-0.09	-0.52	-0.02	0.05	0.40	2.30	-1.55	-0.77	1.40	**0.97**
4748	2,4,7,9,10,16,18,19,22,24,29,36,38,43,50,54	0.03	0.14	-0.29	-0.97	0.68	-0.30	-0.16	-0.47	0.49	-0.48	-0.26	-0.90	0.36	2.30	-1.55	-0.77	1.40	**-0.75**
4749	2,4,7,9,10,16,18,19,22,24,29,39,41,40,42,46,48,51	1.58	0.40	1.78	0.22	-2.02	-0.73	1.52	-0.87	-0.69	0.66	0.13	1.01	1.73	2.30	-1.55	-0.77	-0.72	**3.96**
4750	2,4,7,9,10,16,18,19,22,24,29,39,41,40,42,46,48,52,53,54	1.25	0.40	1.43	-0.17	-1.48	-1.59	1.28	-0.69	-0.57	0.66	-0.19	0.05	1.24	2.30	-1.55	-0.77	-0.72	**0.88**
4751	2,4,7,9,10,16,18,19,22,24,29,39,41,40,42,47,50,54	0.37	0.66	0.58	-1.22	-0.60	-0.73	0.56	-0.69	0.14	0.89	-1.48	-0.90	0.91	2.30	-1.55	-0.77	-0.72	**-2.26**
4752	2,4,7,9,10,16,18,19,22,24,29,39,41,40,42,49,53,54	0.32	0.40	0.56	-1.27	-0.63	-1.59	0.32	-0.17	-0.45	0.77	-1.30	0.05	0.87	2.30	-1.55	-0.77	-0.72	**-2.85**
4753	2,4,7,9,10,16,18,19,22,24,29,39,41,43,47,46,48,51	1.58	0.66	1.78	0.29	-1.98	-0.73	1.52	-0.87	-0.69	0.70	0.13	1.01	1.73	2.30	-1.55	-0.77	-0.72	**4.39**
4754	2,4,7,9,10,16,18,19,22,24,29,39,41,43,47,46,48,52,53,54	1.25	0.66	1.43	-0.09	-1.44	-1.59	1.28	-0.69	-0.57	0.70	-0.19	0.05	1.25	2.30	-1.55	-0.77	-0.72	**1.31**
4755	2,4,7,9,10,16,18,19,22,24,29,39,41,43,47,49,53,54	0.33	0.92	0.56	-1.19	-0.59	-1.59	0.32	-0.17	-0.45	0.80	-1.29	0.05	0.88	2.30	-1.55	-0.77	-0.72	**-2.16**
4756	2,4,7,9,10,16,18,19,22,24,29,39,41,43,50,54	0.23	0.40	0.54	-1.31	-0.65	-1.59	0.56	-0.69	0.14	0.84	-1.53	-0.90	0.83	2.30	-1.55	-0.77	-0.72	**-3.88**
4757	2,4,7,9,10,16,18,19,22,24,29,39,44,55	-0.71	-0.90	0.89	-1.50	-0.76	-2.02	-0.64	-0.87	-0.12	0.82	-1.68	-0.90	0.77	2.30	-1.55	-0.77	-0.72	**-8.35**
4758	2,4,7,9,10,16,18,19,22,24,29,39,45,55	0.99	0.14	1.73	-0.48	-1.25	0.13	0.56	-0.29	1.20	1.63	-0.98	-0.90	1.65	2.30	-1.55	-0.77	-0.72	**3.38**
4759	2,4,7,9,10,16,18,19,22,25,29,36,35,37,40,41,44,55	0.51	-0.12	0.45	-1.56	0.19	-0.30	-0.16	-0.99	-0.53	-0.45	-0.02	-0.90	0.92	2.34	-1.55	-0.77	-0.72	**-3.66**
4760	2,4,7,9,10,16,18,19,22,25,29,36,35,37,40,41,45,55	2.21	0.92	1.29	-0.54	-0.30	1.84	1.04	-0.41	0.80	0.37	0.68	-0.90	1.80	2.34	-1.55	-0.77	-0.72	**8.08**
4761	2,4,7,9,10,16,18,19,22,25,29,36,35,37,40,43,47,46,48,51	1.26	0.92	0.93	0.24	-1.03	0.98	1.04	-0.99	-1.10	-0.57	1.11	1.01	1.26	2.34	-1.55	-0.77	-0.72	**4.34**
4762	2,4,7,9,10,16,18,19,22,25,29,36,35,37,40,43,47,46,48,52,53,54	0.93	0.92	0.57	-0.15	-0.49	0.13	0.80	-0.81	-0.98	-0.57	0.79	0.05	0.77	2.34	-1.55	-0.77	-0.72	**1.25**
4763	2,4,7,9,10,16,18,19,22,25,29,36,35,37,40,43,47,49,53,54	0.00	1.18	-0.29	-1.25	0.36	0.13	-0.16	-0.29	-0.85	-0.46	-0.32	0.05	0.40	2.34	-1.55	-0.77	-0.72	**-2.21**
4764	2,4,7,9,10,16,18,19,22,25,29,36,35,37,40,43,50,54	-0.10	0.66	-0.31	-1.37	0.30	0.13	0.08	-0.81	-0.27	-0.42	-0.56	-0.90	0.36	2.34	-1.55	-0.77	-0.72	**-3.93**
4765	2,4,7,9,10,16,18,19,22,25,29,36,35,37,42,46,48,51	1.12	0.14	0.89	0.16	-1.07	0.13	1.04	-0.99	-1.10	-0.60	1.07	1.01	1.18	2.34	-1.55	-0.77	-0.72	**2.27**
4766	2,4,7,9,10,16,18,19,22,25,29,36,35,37,42,46,48,52,53,54	0.80	0.14	0.54	-0.23	-0.53	-0.73	0.80	-0.81	-0.98	-0.60	0.75	0.05	0.70	2.34	-1.55	-0.77	-0.72	**-0.82**
4767	2,4,7,9,10,16,18,19,22,25,29,36,35,37,42,47,50,54	-0.09	0.40	-0.31	-1.28	0.35	0.13	0.08	-0.81	-0.27	-0.37	-0.53	-0.90	0.36	2.34	-1.55	-0.77	-0.72	**-3.96**
4768	2,4,7,9,10,16,18,19,22,25,29,36,35,37,42,49,53,54	-0.13	0.14	-0.33	-1.33	0.32	-0.73	-0.16	-0.29	-0.85	-0.50	-0.35	0.05	0.33	2.34	-1.55	-0.77	-0.72	**-4.54**
4769	2,4,7,9,10,16,18,19,22,25,29,36,38,40,42,46,48,51	1.16	0.40	0.89	0.13	-0.35	0.55	1.04	-0.62	-0.78	-0.59	1.03	1.01	1.19	2.34	-1.55	-0.77	1.40	**6.48**
4770	2,4,7,9,10,16,18,19,22,25,29,36,38,40,42,46,48,52,53,54	0.84	0.40	0.53	-0.26	0.19	-0.30	0.80	-0.44	-0.66	-0.59	0.71	0.05	0.71	2.34	-1.55	-0.77	1.40	**3.39**
4771	2,4,7,9,10,16,18,19,22,25,29,36,38,40,42,47,50,54	-0.05	0.66	-0.31	-1.31	1.07	0.55	0.08	-0.44	0.05	-0.36	-0.58	-0.90	0.37	2.34	-1.55	-0.77	1.40	**0.25**
4772	2,4,7,9,10,16,18,19,22,25,29,36,38,40,42,49,53,54	-0.09	0.40	-0.33	-1.36	1.04	-0.30	-0.16	0.08	-0.53	-0.49	-0.39	0.05	0.34	2.34	-1.55	-0.77	1.40	**-0.33**
4773	2,4,7,9,10,16,18,19,22,25,29,36,38,41,44,55	0.42	-0.38	0.42	-1.59	0.91	-0.73	-0.16	-0.62	-0.21	-0.43	-0.10	-0.90	0.86	2.34	-1.55	-0.77	1.40	**-1.09**
4774	2,4,7,9,10,16,18,19,22,25,29,36,38,41,45,55	2.12	0.66	1.26	-0.57	0.42	1.41	1.04	-0.04	1.12	0.38	0.61	-0.90	1.74	2.34	-1.55	-0.77	1.40	**10.64**
4775	2,4,7,9,10,16,18,19,22,25,29,36,38,43,47,46,48,51	1.17	0.14	0.89	0.20	-0.31	0.55	1.04	-0.62	-0.78	-0.56	1.04	1.01	1.20	2.34	-1.55	-0.77	1.40	**6.39**
4776	2,4,7,9,10,16,18,19,22,25,29,36,38,43,47,46,48,52,53,54	0.84	0.14	0.54	-0.18	0.23	-0.30	0.80	-0.44	-0.66	-0.56	0.72	0.05	0.71	2.34	-1.55	-0.77	1.40	**3.30**
4777	2,4,7,9,10,16,18,19,22,25,29,36,38,43,47,49,53,54	-0.09	0.40	-0.33	-1.28	1.08	-0.30	-0.16	0.08	-0.53	-0.45	-0.39	0.05	0.34	2.34	-1.55	-0.77	1.40	**-0.16**
4778	2,4,7,9,10,16,18,19,22,25,29,36,38,43,50,54	-0.19	-0.12	-0.35	-1.40	1.02	-0.30	0.08	-0.44	0.05	-0.41	-0.63	-0.90	0.30	2.34	-1.55	-0.77	1.40	**-1.88**
4779	2,4,7,9,10,16,18,19,22,25,29,39,41,40,42,46,48,51	1.36	0.14	1.72	-0.22	-1.69	-0.73	1.75	-0.85	-1.13	0.73	-0.24	1.01	1.67	2.34	-1.55	-0.77	-0.72	**2.83**
4780	2,4,7,9,10,16,18,19,22,25,29,39,41,40,42,46,48,52,53,54	1.04	0.14	1.37	-0.60	-1.15	-1.59	1.52	-0.67	-1.01	0.73	-0.56	0.05	1.19	2.34	-1.55	-0.77	-0.72	**-0.25**
4781	2,4,7,9,10,16,18,19,22,25,29,39,41,40,42,47,50,54	0.15	0.40	0.52	-1.65	-0.27	-0.73	0.80	-0.67	-0.30	0.96	-1.84	-0.90	0.85	2.34	-1.55	-0.77	-0.72	**-3.39**
4782	2,4,7,9,10,16,18,19,22,25,29,39,41,40,42,49,53,54	0.11	0.14	0.50	-1.70	-0.30	-1.59	0.56	-0.15	-0.88	0.84	-1.66	0.05	0.81	2.34	-1.55	-0.77	-0.72	**-3.98**
4783	2,4,7,9,10,16,18,19,22,25,29,39,41,43,47,46,48,51	1.37	0.40	1.72	-0.14	-1.64	-0.73	1.75	-0.85	-1.13	0.76	-0.23	1.01	1.68	2.34	-1.55	-0.77	-0.72	**3.26**
4784	2,4,7,9,10,16,18,19,22,25,29,39,41,43,47,46,48,52,53,54	1.04	0.40	1.37	-0.52	-1.11	-1.59	1.52	-0.67	-1.01	0.76	-0.55	0.05	1.19	2.34	-1.55	-0.77	-0.72	**0.17**
4785	2,4,7,9,10,16,18,19,22,25,29,39,41,43,47,49,53,54	0.11	0.66	0.50	-1.62	-0.25	-1.59	0.56	-0.15	-0.88	0.87	-1.66	0.05	0.82	2.34	-1.55	-0.77	-0.72	**-3.29**
4786	2,4,7,9,10,16,18,19,22,25,29,39,41,43,50,54	0.01	0.14	0.48	-1.74	-0.32	-1.59	0.80	-0.67	-0.30	0.91	-1.90	-0.90	0.78	2.34	-1.55	-0.77	-0.72	**-5.01**
4787	2,4,7,9,10,16,18,19,22,25,29,39,44,55	-0.92	-1.15	0.83	-1.93	-0.43	-2.02	-0.40	-0.85	-0.56	0.89	-2.05	-0.90	0.71	2.34	-1.55	-0.77	-0.72	**-9.49**
4788	2,4,7,9,10,16,18,19,22,25,29,39,45,55	0.78	-0.12	1.67	-0.92	-0.92	0.13	0.80	-0.27	0.77	1.70	-1.34	-0.90	1.59	2.34	-1.55	-0.77	-0.72	**2.25**

Westar Energy- JEC to East Manhattan
345/230 kV Transmission Line Project
Table F-2: Raw Scores for All Routes

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
4789	2,4,7,9,10,16,18,21,27,26,30,32,46,47,50,54	1.05	1.70	0.27	-0.90	0.52	1.84	1.52	-1.07	1.55	-0.56	1.17	-0.90	0.96	1.05	-1.55	1.14	0.98	**8.76**
4790	2,4,7,9,10,16,18,21,27,26,30,32,46,49,53,54	1.01	1.44	0.25	-0.95	0.49	0.98	1.28	-0.55	0.97	-0.69	1.33	0.05	0.93	1.05	-1.55	1.14	0.98	**8.15**
4791	2,4,7,9,10,16,18,21,27,26,30,32,48,51	0.51	0.92	1.00	-1.55	-1.46	1.84	1.99	-1.25	0.72	-0.79	0.82	-0.90	1.43	1.05	-1.55	1.14	0.98	**4.90**
4792	2,4,7,9,10,16,18,21,27,26,30,32,48,52,53,54	0.18	0.92	0.64	-1.93	-0.93	0.98	1.75	-1.07	0.85	-0.79	0.50	-1.85	0.95	1.05	-1.55	1.14	0.98	**1.82**
4793	2,4,7,9,10,16,18,21,27,26,31,34,35,37,40,41,44,55	-0.77	0.40	-0.62	-0.89	0.78	-0.30	-1.11	-0.65	-0.05	-1.18	0.37	-0.90	-0.57	0.33	-1.55	1.14	-0.72	**-6.31**
4794	2,4,7,9,10,16,18,21,27,26,31,34,35,37,40,41,45,55	0.93	1.44	0.22	0.13	0.29	1.84	0.08	-0.08	1.27	-0.37	1.07	-0.90	0.30	0.33	-1.55	1.14	-0.72	**5.42**
4795	2,4,7,9,10,16,18,21,27,26,31,34,35,37,40,43,47,46,48,51	-0.03	1.44	-0.15	0.91	-0.43	0.98	0.08	-0.65	-0.63	-1.30	1.50	1.01	-0.24	0.33	-1.55	1.14	-0.72	**1.68**
4796	2,4,7,9,10,16,18,21,27,26,31,34,35,37,40,43,47,46,48,52,53,54	-0.36	1.44	-0.50	0.52	0.10	0.13	-0.16	-0.48	-0.50	-1.30	1.18	0.05	-0.72	0.33	-1.55	1.14	-0.72	**-1.40**
4797	2,4,7,9,10,16,18,21,27,26,31,34,35,37,40,43,47,49,53,54	-1.28	1.70	-1.37	-0.58	0.96	0.13	-1.11	0.04	-0.38	-1.20	0.08	0.05	-1.09	0.33	-1.55	1.14	-0.72	**-4.87**
4798	2,4,7,9,10,16,18,21,27,26,31,34,35,37,40,43,50,54	-1.38	1.18	-1.39	-0.69	0.89	0.13	-0.87	-0.48	0.20	-1.16	-0.17	-0.90	-1.14	0.33	-1.55	1.14	-0.72	**-6.59**
4799	2,4,7,9,10,16,18,21,27,26,31,34,35,37,42,46,48,51	-0.16	0.66	-0.18	0.83	-0.48	0.13	0.08	-0.65	-0.63	-1.34	1.46	1.01	-0.31	0.33	-1.55	1.14	-0.72	**-0.39**
4800	2,4,7,9,10,16,18,21,27,26,31,34,35,37,42,46,48,52,53,54	-0.49	0.66	-0.54	0.45	0.06	-0.73	-0.16	-0.48	-0.50	-1.34	1.14	0.05	-0.79	0.33	-1.55	1.14	-0.72	**-3.48**
4801	2,4,7,9,10,16,18,21,27,26,31,34,35,37,42,47,50,54	-1.37	0.92	-1.39	-0.60	0.94	0.13	-0.87	-0.48	0.20	-1.11	-0.14	-0.90	-1.13	0.33	-1.55	1.14	-0.72	**-6.62**
4802	2,4,7,9,10,16,18,21,27,26,31,34,35,37,42,49,53,54	-1.42	0.66	-1.41	-0.65	0.91	-0.73	-1.11	0.04	-0.38	-1.23	0.04	0.05	-1.17	0.33	-1.55	1.14	-0.72	**-7.20**
4803	2,4,7,9,10,16,18,21,27,26,31,34,36,39,41,40,42,46,48,51	1.17	1.44	0.94	1.09	-1.09	0.13	0.80	-0.51	-0.66	0.64	0.39	1.01	0.73	0.33	-1.55	1.14	-0.72	**5.27**
4804	2,4,7,9,10,16,18,21,27,26,31,34,36,39,41,40,42,46,48,52,53,54	0.85	1.44	0.59	0.70	-0.56	-0.73	0.56	-0.33	-0.53	0.64	0.08	0.05	0.25	0.33	-1.55	1.14	-0.72	**2.18**
4805	2,4,7,9,10,16,18,21,27,26,31,34,36,39,41,40,42,47,50,54	-0.04	1.70	-0.26	-0.35	0.32	0.13	-0.16	-0.33	0.17	0.87	-1.21	-0.90	-0.09	0.33	-1.55	1.14	-0.72	**-0.96**
4806	2,4,7,9,10,16,18,21,27,26,31,34,36,39,41,40,42,49,53,54	-0.08	1.44	-0.28	-0.40	0.29	-0.73	-0.40	0.19	-0.41	0.74	-1.03	0.05	-0.12	0.33	-1.55	1.14	-0.72	**-1.54**
4807	2,4,7,9,10,16,18,21,27,26,31,34,36,39,41,43,47,46,48,51	1.17	1.70	0.95	1.17	-1.05	0.13	0.80	-0.51	-0.66	0.67	0.40	1.01	0.74	0.33	-1.55	1.14	-0.72	**5.70**
4808	2,4,7,9,10,16,18,21,27,26,31,34,36,39,41,43,47,46,48,52,53,54	0.85	1.70	0.59	0.78	-0.51	-0.73	0.56	-0.33	-0.53	0.67	0.08	0.05	0.25	0.33	-1.55	1.14	-0.72	**2.61**
4809	2,4,7,9,10,16,18,21,27,26,31,34,36,39,41,43,47,49,53,54	-0.08	1.96	-0.28	-0.32	0.34	-0.73	-0.40	0.19	-0.41	0.77	-1.02	0.05	-0.12	0.33	-1.55	1.14	-0.72	**-0.86**
4810	2,4,7,9,10,16,18,21,27,26,31,34,36,39,41,43,50,54	-0.18	1.44	-0.30	-0.44	0.27	-0.73	-0.16	-0.33	0.17	0.82	-1.27	-0.90	-0.16	0.33	-1.55	1.14	-0.72	**-2.57**
4811	2,4,7,9,10,16,18,21,27,26,31,34,36,39,44,55	-1.11	0.14	0.05	-0.63	0.17	-1.16	-1.35	-0.51	-0.08	0.79	-1.42	-0.90	-0.23	0.33	-1.55	1.14	-0.72	**-7.05**
4812	2,4,7,9,10,16,18,21,27,26,31,34,36,39,45,55	0.59	1.18	0.89	0.39	-0.32	0.98	-0.16	0.07	1.24	1.60	-0.71	-0.90	0.65	0.33	-1.55	1.14	-0.72	**4.69**
4813	2,4,7,9,10,16,18,21,27,26,31,34,38,40,42,46,48,51	-0.12	0.66	-0.18	0.80	0.24	0.55	0.08	-0.29	-0.30	-1.32	1.42	1.01	-0.30	0.33	-1.55	1.14	1.40	**3.56**
4814	2,4,7,9,10,16,18,21,27,26,31,34,38,40,42,46,48,52,53,54	-0.45	0.66	-0.54	0.41	0.78	-0.30	-0.16	-0.11	-0.18	-1.32	1.10	0.05	-0.79	0.33	-1.55	1.14	1.40	**0.48**
4815	2,4,7,9,10,16,18,21,27,26,31,34,38,40,42,47,50,54	-1.33	0.92	-1.39	-0.63	1.66	0.55	-0.87	-0.11	0.52	-1.09	-0.18	-0.90	-1.12	0.33	-1.55	1.14	1.40	**-2.66**
4816	2,4,7,9,10,16,18,21,27,26,31,34,38,40,42,49,53,54	-1.38	0.66	-1.41	-0.69	1.63	-0.30	-1.11	0.41	-0.06	-1.22	0.00	0.05	-1.16	0.33	-1.55	1.14	1.40	**-3.25**
4817	2,4,7,9,10,16,18,21,27,26,31,34,38,41,44,55	-0.86	-0.12	-0.66	-0.92	1.50	-0.73	-1.11	-0.29	0.27	-1.17	0.29	-0.90	-0.63	0.33	-1.55	1.14	1.40	**-4.01**
4818	2,4,7,9,10,16,18,21,27,26,31,34,38,41,45,55	0.84	0.92	0.18	0.10	1.01	1.41	0.08	0.29	1.59	-0.36	1.00	-0.90	0.24	0.33	-1.55	1.14	1.40	**7.73**
4819	2,4,7,9,10,16,18,21,27,26,31,34,38,43,47,46,48,51	-0.12	0.40	-0.18	0.88	0.28	0.55	0.08	-0.29	-0.30	-1.29	1.43	1.01	-0.30	0.33	-1.55	1.14	1.40	**3.47**
4820	2,4,7,9,10,16,18,21,27,26,31,34,38,43,47,46,48,52,53,54	-0.45	0.40	-0.54	0.49	0.82	-0.30	-0.16	-0.11	-0.18	-1.29	1.11	0.05	-0.78	0.33	-1.55	1.14	1.40	**0.39**
4821	2,4,7,9,10,16,18,21,27,26,31,34,38,43,47,49,53,54	-1.37	0.66	-1.41	-0.61	1.67	-0.30	-1.11	0.41	-0.06	-1.19	0.00	0.05	-1.15	0.33	-1.55	1.14	1.40	**-3.08**
4822	2,4,7,9,10,16,18,21,27,26,31,34,38,43,50,54	-1.47	0.14	-1.43	-0.72	1.61	-0.30	-0.87	-0.11	0.52	-1.14	-0.24	-0.90	-1.20	0.33	-1.55	1.14	1.40	**-4.80**
4823	2,4,7,9,10,16,18,21,27,26,33,37,40,41,44,55	-0.84	-0.64	-0.65	-0.91	0.43	-0.30	-0.87	-0.65	-0.36	-1.16	0.31	-0.90	-0.59	0.33	-1.55	1.14	-0.72	**-7.95**
4824	2,4,7,9,10,16,18,21,27,26,33,37,40,41,45,55	0.86	0.40	0.19	0.11	-0.06	1.84	0.32	-0.08	0.97	-0.35	1.02	-0.90	0.28	0.33	-1.55	1.14	-0.72	**3.79**
4825	2,4,7,9,10,16,18,21,27,26,33,37,40,43,47,46,48,51	-0.09	0.40	-0.18	0.89	-0.79	0.98	0.32	-0.65	-0.93	-1.29	1.45	1.01	-0.26	0.33	-1.55	1.14	-0.72	**0.05**
4826	2,4,7,9,10,16,18,21,27,26,33,37,40,43,47,46,48,52,53,54	-0.42	0.40	-0.53	0.50	-0.25	0.13	0.08	-0.48	-0.81	-1.29	1.13	0.05	-0.74	0.33	-1.55	1.14	-0.72	**-3.04**
4827	2,4,7,9,10,16,18,21,27,26,33,37,40,43,47,49,53,54	-1.35	0.66	-1.40	-0.60	0.60	0.13	-0.87	0.04	-0.68	-1.18	0.02	0.05	-1.11	0.33	-1.55	1.14	-0.72	**-6.50**
4828	2,4,7,9,10,16,18,21,27,26,33,37,40,43,50,54	-1.45	0.14	-1.42	-0.72	0.53	0.13	-0.64	-0.48	-0.10	-1.14	-0.22	-0.90	-1.16	0.33	-1.55	1.14	-0.72	**-8.22**
4829	2,4,7,9,10,16,18,21,27,26,33,37,42,46,48,51	-0.23	-0.38	-0.22	0.81	-0.83	0.13	0.32	-0.65	-0.93	-1.32	1.41	1.01	-0.33	0.33	-1.55	1.14	-0.72	**-2.02**
4830	2,4,7,9,10,16,18,21,27,26,33,37,42,46,48,52,53,54	-0.55	-0.38	-0.57	0.42	-0.30	-0.73	0.08	-0.48	-0.81	-1.32	1.09	0.05	-0.81	0.33	-1.55	1.14	-0.72	**-5.11**
4831	2,4,7,9,10,16,18,21,27,26,33,37,42,47,50,54	-1.44	-0.12	-1.42	-0.62	0.58	0.13	-0.64	-0.48	-0.10	-1.09	-0.20	-0.90	-1.15	0.33	-1.55	1.14	-0.72	**-8.25**
4832	2,4,7,9,10,16,18,21,27,26,33,37,42,49,53,54	-1.48	-0.38	-1.44	-0.68	0.55	-0.73	-0.87	0.04	-0.68	-1.22	-0.01	0.05	-1.19	0.33	-1.55	1.14	-0.72	**-8.83**
4833	2,4,7,9,10,16,18,21,28,31,30,32,46,47,50,54	0.98	1.18	0.20	-0.88	0.72	1.84	1.52	-1.07	1.20	-0.32	0.91	-0.90	0.87	1.05	-1.55	-0.77	0.98	**5.96**
4834	2,4,7,9,10,16,18,21,28,31,30,32,46,49,53,54	0.93	0.92	0.18	-0.93	0.70	0.98	1.28	-0.55	0.62	-0.45	1.07	0.05	0.83	1.05	-1.55	-0.77	0.98	**5.35**
4835	2,4,7,9,10,16,18,21,28,31,30,32,48,51	0.43	0.40	0.93	-1.52	-1.26	1.84	1.99	-1.25	0.37	-0.55	0.57	-0.90	1.34	1.05	-1.55	-0.77	0.98	**2.10**
4836	2,4,7,9,10,16,18,21,28,31,30,32,48,52,53,54	0.11	0.40	0.57	-1.91	-0.72	0.98	1.75	-1.07	0.49	-0.55	0.25	-1.85	0.86	1.05	-1.55	-0.77	0.98	**-0.98**
4837	2,4,7,9,10,16,18,21,28,31,33,37,40,41,44,55	-0.91	-0.64	-0.72	-0.88	0.63	-0.30	-0.87	-0.65	-0.71	-0.92	0.06	-0.90	-0.68	0.33	-1.55	-0.77	-0.72	**-10.23**
4838	2,4,7,9,10,16,18,21,28,31,33,37,40,41,45,55	0.79	0.40	0.12	0.14	0.14	1.84	0.32	-0.08	0.61	-0.11	0.76	-0.90	0.19	0.33	-1.55	-0.77	-0.72	**1.51**
4839	2,4,7,9,10,16,18,21,28,31,33,37,40,43,47,46,48,51	-0.17	0.40	-0.25	0.92	-0.59	0.98	0.32	-0.65	-1.28	-1.04	1.19	1.01	-0.35	0.33	-1.55	-0.77	-0.72	**-2.23**
4840	2,4,7,9,10,16,18,21,28,31,33,37,40,43,47,46,48,52,53,54	-0.49	0.40	-0.60	0.53	-0.05	0.13	0.08	-0.48	-1.16	-1.04	0.87	0.05	-0.83	0.33	-1.55	-0.77	-0.72	**-5.32**
4841	2,4,7,9,10,16,18,21,28,31,33,37,40,43,47,49,53,54	-1.42	0.66	-1.47	-0.57	0.80	0.13	-0.87	0.04	-1.04	-0.94	-0.24	0.05	-1.21	0.33	-1.55	-0.77	-0.72	**-8.78**
4842	2,4,7,9,10,16,18,21,28,31,33,37,40,43,50,54	-1.52	0.14	-1.49	-0.69	0.74	0.13	-0.64	-0.48	-0.45	-0.89	-0.48	-0.90	-1.25	0.33	-1.55	-0.77	-0.72	**-10.50**
4843	2,4,7,9,10,16,18,21,28,31,33,37,42,46,48,51	-0.30	-0.38	-0.29	0.84	-0.63	0.13	0.32	-0.65	-1.28	-1.08	1.15	1.01	-0.42	0.33	-1.55	-0.77	-0.72	**-4.31**
4844	2,4,7,9,10,16,18,21,28,31,33,37,42,46,48,52,53,54	-0.63	-0.38	-0.64	0.45	-0.09	-0.73	0.08	-0.48	-1.16	-1.08	0.83	0.05	-0.91	0.33	-1.55	-0.77	-0.72	**-7.39**
4845	2,4,7,9,10,16,18,21,28,31,33,37,42,47,50,54	-1.51	-0.12	-1.49	-0.60	0.79	0.13	-0.64	-0.48	-0.45	-0.84	-0.45	-0.90	-1.24	0.33	-1.55	-0.77	-0.72	**-10.53**
4846	2,4,7,9,10,16,18,21,28,31,33,37,42,49,53,54	-1.55	-0.38	-1.51	-0.65	0.76	-0.73	-0.87	0.04	-1.04	-0.97	-0.27	0.05	-1.28	0.33	-1.55	-0.77	-0.72	**-11.12**
4847	2,4,7,9,10,16,18,21,28,34,35,37,40,41,44,55	-0.94	-0.64	-0.72	-0.86	0.99	-0.30	-1.11	-0.65	-0.41	-0.96	0.03	-0.90	-0.73	0.33	-1.55	-0.77	-0.72	**-9.92**
4848	2,4,7,9,10,16,18,21,28,34,35,37,40,41,45,55	0.76	0.40	0.12	0.16	0.50	1.84	0.08	-0.08	0.92	-0.15	0.74	-0.90	0.15	0.33	-1.55	-0.77	-0.72	**1.81**
4849	2,4,7,9,10,16,18,21,28,34,35,37,40,43,47,46,48,51	-0.20	0.40	-0.24	0.94	-0.23	0.98	0.08	-0.65	-0.98	-1.08	1.16	1.01	-0.39	0.33	-1.55	-0.77	-0.72	**-1.92**
4850	2,4,7,9,10,16,18,21,28,34,35,37,40,43,47,46,48,52,53,54	-0.52	0.40	-0.60	0.55	0.31	0.13	-0.16	-0.48	-0.86	-1.08	0.84	0.05	-0.88	0.33	-1.55	-0.77	-0.72	**-5.01**
4851	2,4,7,9,10,16,18,21,28,34,35,37,40,43,47,49,53,54	-1.45	0.66	-1.47	-0.55	1.16	0.13	-1.11	0.04	-0.73	-0.98	-0.26	0.05	-1.25	0.33	-1.55	-0.77	-0.72	**-8.48**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
4852	2,4,7,9,10,16,18,21,28,34,35,37,40,43,50,54	-1.55	0.14	-1.48	-0.67	1.10	0.13	-0.87	-0.48	-0.15	-0.94	-0.50	-0.90	-1.29	0.33	-1.55	-0.77	-0.72	**-10.19**
4853	2,4,7,9,10,16,18,21,28,34,35,37,42,46,48,51	-0.33	-0.38	-0.28	0.86	-0.27	0.13	0.08	-0.65	-0.98	-1.12	1.13	1.01	-0.47	0.33	-1.55	-0.77	-0.72	**-4.00**
4854	2,4,7,9,10,16,18,21,28,34,35,37,42,46,48,52,53,54	-0.65	-0.38	-0.64	0.47	0.27	-0.73	-0.16	-0.48	-0.86	-1.12	0.81	0.05	-0.95	0.33	-1.55	-0.77	-0.72	**-7.08**
4855	2,4,7,9,10,16,18,21,28,34,35,37,42,47,50,54	-1.54	-0.12	-1.48	-0.58	1.15	0.13	-0.87	-0.48	-0.15	-0.89	-0.48	-0.90	-1.29	0.33	-1.55	-0.77	-0.72	**-10.22**
4856	2,4,7,9,10,16,18,21,28,34,35,37,42,49,53,54	-1.58	-0.38	-1.50	-0.63	1.12	-0.73	-1.11	0.04	-0.73	-1.01	-0.30	0.05	-1.32	0.33	-1.55	-0.77	-0.72	**-10.81**
4857	2,4,7,9,10,16,18,21,28,34,36,39,41,40,42,46,48,51	1.00	0.40	0.85	1.11	-0.89	0.13	0.80	-0.51	-1.01	0.86	0.06	1.01	0.58	0.33	-1.55	-0.77	-0.72	**1.66**
4858	2,4,7,9,10,16,18,21,28,34,36,39,41,40,42,46,48,52,53,54	0.68	0.40	0.49	0.73	-0.35	-0.73	0.56	-0.33	-0.89	0.86	-0.26	0.05	0.09	0.33	-1.55	-0.77	-0.72	**-1.43**
4859	2,4,7,9,10,16,18,21,28,34,36,39,41,40,42,47,50,54	-0.21	0.66	-0.36	-0.32	0.53	0.13	-0.16	-0.33	-0.18	1.09	-1.55	-0.90	-0.25	0.33	-1.55	-0.77	-0.72	**-4.57**
4860	2,4,7,9,10,16,18,21,28,34,36,39,41,40,42,49,53,54	-0.25	0.40	-0.37	-0.37	0.50	-0.73	-0.40	0.19	-0.76	0.96	-1.36	0.05	-0.28	0.33	-1.55	-0.77	-0.72	**-5.15**
4861	2,4,7,9,10,16,18,21,28,34,36,39,41,43,47,46,48,51	1.01	0.66	0.85	1.19	-0.85	0.13	0.80	-0.51	-1.01	0.89	0.06	1.01	0.58	0.33	-1.55	-0.77	-0.72	**2.09**
4862	2,4,7,9,10,16,18,21,28,34,36,39,41,43,47,46,48,52,53,54	0.68	0.66	0.49	0.81	-0.31	-0.73	0.56	-0.33	-0.89	0.89	-0.26	0.05	0.09	0.33	-1.55	-0.77	-0.72	**-1.00**
4863	2,4,7,9,10,16,18,21,28,34,36,39,41,43,47,49,53,54	-0.25	0.92	-0.37	-0.29	0.54	-0.73	-0.40	0.19	-0.76	0.99	-1.36	0.05	-0.28	0.33	-1.55	-0.77	-0.72	**-4.46**
4864	2,4,7,9,10,16,18,21,28,34,36,39,41,43,50,54	-0.35	0.40	-0.39	-0.41	0.48	-0.73	-0.16	-0.33	-0.18	1.04	-1.60	-0.90	-0.32	0.33	-1.55	-0.77	-0.72	**-6.18**
4865	2,4,7,9,10,16,18,21,28,34,36,39,44,55	-1.28	-0.90	-0.04	-0.60	0.37	-1.16	-1.35	-0.51	-0.44	1.01	-1.75	-0.90	-0.38	0.33	-1.55	-0.77	-0.72	**-10.66**
4866	2,4,7,9,10,16,18,21,28,34,36,39,45,55	0.42	0.14	0.80	0.42	-0.12	0.98	-0.16	0.07	0.89	1.82	-1.05	-0.90	0.49	0.33	-1.55	-0.77	-0.72	**1.08**
4867	2,4,7,9,10,16,18,21,28,34,38,40,42,46,48,51	-0.29	-0.38	-0.28	0.83	0.45	0.55	0.08	-0.29	-0.66	-1.11	1.09	1.01	-0.46	0.33	-1.55	-0.77	1.40	**-0.04**
4868	2,4,7,9,10,16,18,21,28,34,38,40,42,46,48,52,53,54	-0.62	-0.38	-0.64	0.44	0.98	-0.30	-0.16	-0.11	-0.53	-1.11	0.77	0.05	-0.94	0.33	-1.55	-0.77	1.40	**-3.13**
4869	2,4,7,9,10,16,18,21,28,34,38,40,42,47,50,54	-1.50	-0.12	-1.48	-0.61	1.86	0.55	-0.87	-0.11	0.17	-0.87	-0.52	-0.90	-1.28	0.33	-1.55	-0.77	1.40	**-6.27**
4870	2,4,7,9,10,16,18,21,28,34,38,40,42,49,53,54	-1.54	-0.38	-1.50	-0.66	1.83	-0.30	-1.11	0.41	-0.41	-1.00	-0.34	0.05	-1.32	0.33	-1.55	-0.77	1.40	**-6.85**
4871	2,4,7,9,10,16,18,21,28,34,38,41,44,55	-1.03	-1.15	-0.75	-0.89	1.71	-0.73	-1.11	-0.29	-0.08	-0.95	-0.05	-0.90	-0.79	0.33	-1.55	-0.77	1.40	**-7.62**
4872	2,4,7,9,10,16,18,21,28,34,38,41,45,55	0.67	-0.12	0.09	0.13	1.22	1.41	0.08	0.29	1.24	-0.14	0.66	-0.90	0.08	0.33	-1.55	-0.77	1.40	**4.12**
4873	2,4,7,9,10,16,18,21,28,34,38,43,47,46,48,51	-0.29	-0.64	-0.28	0.91	0.49	0.55	0.08	-0.29	-0.66	-1.07	1.09	1.01	-0.46	0.33	-1.55	-0.77	1.40	**-0.13**
4874	2,4,7,9,10,16,18,21,28,34,38,43,47,46,48,52,53,54	-0.61	-0.64	-0.63	0.52	1.03	-0.30	-0.16	-0.11	-0.53	-1.07	0.77	0.05	-0.94	0.33	-1.55	-0.77	1.40	**-3.22**
4875	2,4,7,9,10,16,18,21,28,34,38,43,47,49,53,54	-1.54	-0.38	-1.50	-0.58	1.88	-0.30	-1.11	0.41	-0.41	-0.97	-0.33	0.05	-1.31	0.33	-1.55	-0.77	1.40	**-6.69**
4876	2,4,7,9,10,16,18,21,28,34,38,43,50,54	-1.64	-0.90	-1.52	-0.70	1.81	-0.30	-0.87	-0.11	0.17	-0.92	-0.57	-0.90	-1.36	0.33	-1.55	-0.77	1.40	**-8.40**
4877	2,4,7,9,10,16,20,23,26,30,32,46,47,50,54	0.96	0.66	0.11	-0.66	0.48	0.98	1.04	-0.38	2.09	-0.12	0.72	-0.90	0.63	0.95	-1.55	1.14	0.98	**7.14**
4878	2,4,7,9,10,16,20,23,26,30,32,46,49,53,54	0.92	0.40	0.09	-0.71	0.46	0.13	0.80	0.14	1.51	-0.25	0.89	0.05	0.60	0.95	-1.55	1.14	0.98	**6.54**
4879	2,4,7,9,10,16,20,23,26,30,32,48,51	0.42	-0.12	0.84	-1.30	-1.50	0.98	1.52	-0.56	1.26	-0.35	0.38	-0.90	1.11	0.95	-1.55	1.14	0.98	**3.29**
4880	2,4,7,9,10,16,20,23,26,30,32,48,52,53,54	0.09	-0.12	0.48	-1.69	-0.96	0.13	1.28	-0.38	1.38	-0.35	0.06	-1.85	0.62	0.95	-1.55	1.14	0.98	**0.20**
4881	2,4,7,9,10,16,20,23,26,31,34,35,37,40,41,44,55	-0.86	-0.64	-0.79	-0.64	0.75	-1.16	-1.59	0.04	0.48	-0.74	-0.08	-0.90	-0.90	0.23	-1.55	1.14	-0.72	**-7.93**
4882	2,4,7,9,10,16,20,23,26,31,34,35,37,40,41,45,55	0.84	0.40	0.05	0.38	0.26	0.98	-0.40	0.61	1.81	0.07	0.63	-0.90	-0.02	0.23	-1.55	1.14	-0.72	**3.81**
4883	2,4,7,9,10,16,20,23,26,31,34,35,37,40,43,47,46,48,51	-0.12	0.40	-0.31	1.16	-0.47	0.13	-0.40	0.04	-0.09	-0.86	1.05	1.01	-0.56	0.23	-1.55	1.14	-0.72	**0.07**
4884	2,4,7,9,10,16,20,23,26,31,34,35,37,40,43,47,46,48,52,53,54	-0.44	0.40	-0.67	0.77	0.07	-0.73	-0.64	0.21	0.03	-0.86	0.73	0.05	-1.05	0.23	-1.55	1.14	-0.72	**-3.02**
4885	2,4,7,9,10,16,20,23,26,31,34,35,37,40,43,47,49,53,54	-1.37	0.66	-1.53	-0.33	0.92	-0.73	-1.59	0.73	0.16	-0.76	-0.37	0.05	-1.42	0.23	-1.55	1.14	-0.72	**-6.48**
4886	2,4,7,9,10,16,20,23,26,31,34,35,37,40,43,50,54	-1.47	0.14	-1.55	-0.45	0.86	-0.73	-1.35	0.21	0.74	-0.71	-0.61	-0.90	-1.46	0.23	-1.55	1.14	-0.72	**-8.20**
4887	2,4,7,9,10,16,20,23,26,31,34,35,37,42,46,48,51	-0.25	-0.38	-0.35	1.08	-0.51	-0.73	-0.40	0.04	-0.09	-0.89	1.02	1.01	-0.64	0.23	-1.55	1.14	-0.72	**-2.00**
4888	2,4,7,9,10,16,20,23,26,31,34,35,37,42,46,48,52,53,54	-0.58	-0.38	-0.70	0.69	0.03	-1.59	-0.64	0.21	0.03	-0.89	0.70	0.05	-1.12	0.23	-1.55	1.14	-0.72	**-5.09**
4889	2,4,7,9,10,16,20,23,26,31,34,35,37,42,47,50,54	-1.46	-0.12	-1.55	-0.36	0.91	-0.73	-1.35	0.21	0.74	-0.66	-0.59	-0.90	-1.46	0.23	-1.55	1.14	-0.72	**-8.23**
4890	2,4,7,9,10,16,20,23,26,31,34,35,37,42,49,53,54	-1.50	-0.38	-1.57	-0.41	0.88	-1.59	-1.59	0.73	0.16	-0.79	-0.41	0.05	-1.49	0.23	-1.55	1.14	-0.72	**-8.81**
4891	2,4,7,9,10,16,20,23,26,31,34,36,39,41,40,42,46,48,51	1.08	0.40	0.78	1.33	-1.13	-0.73	0.32	0.18	-0.12	1.08	-0.05	1.01	0.41	0.23	-1.55	1.14	-0.72	**3.65**
4892	2,4,7,9,10,16,20,23,26,31,34,36,39,41,40,42,46,48,52,53,54	0.76	0.40	0.42	0.95	-0.59	-1.59	0.08	0.36	0.00	1.08	-0.37	0.05	-0.08	0.23	-1.55	1.14	-0.72	**0.57**
4893	2,4,7,9,10,16,20,23,26,31,34,36,39,41,40,42,47,50,54	-0.13	0.66	-0.42	-0.10	0.29	-0.73	-0.64	0.36	0.71	1.31	-1.66	-0.90	-0.41	0.23	-1.55	1.14	-0.72	**-2.57**
4894	2,4,7,9,10,16,20,23,26,31,34,36,39,41,40,42,49,53,54	-0.17	0.40	-0.44	-0.15	0.26	-1.59	-0.87	0.88	0.13	1.18	-1.47	0.05	-0.45	0.23	-1.55	1.14	-0.72	**-3.16**
4895	2,4,7,9,10,16,20,23,26,31,34,36,39,41,43,47,46,48,51	1.09	0.66	0.78	1.41	-1.09	-0.73	0.32	0.18	-0.12	1.11	-0.05	1.01	0.41	0.23	-1.55	1.14	-0.72	**4.08**
4896	2,4,7,9,10,16,20,23,26,31,34,36,39,41,43,47,46,48,52,53,54	0.76	0.66	0.43	1.03	-0.55	-1.59	0.08	0.36	0.00	1.11	-0.36	0.05	-0.07	0.23	-1.55	1.14	-0.72	**1.00**
4897	2,4,7,9,10,16,20,23,26,31,34,36,39,41,43,47,49,53,54	-0.17	0.92	-0.44	-0.07	0.30	-1.59	-0.87	0.88	0.13	1.22	-1.47	0.05	-0.45	0.23	-1.55	1.14	-0.72	**-2.47**
4898	2,4,7,9,10,16,20,23,26,31,34,36,39,41,43,50,54	-0.27	0.40	-0.46	-0.19	0.24	-1.59	-0.64	0.36	0.71	1.26	-1.71	-0.90	-0.49	0.23	-1.55	1.14	-0.72	**-4.19**
4899	2,4,7,9,10,16,20,23,26,31,34,36,39,44,55	-1.20	-0.90	-0.11	-0.38	0.13	-2.02	-1.83	0.18	0.45	1.24	-1.86	-0.90	-0.55	0.23	-1.55	1.14	-0.72	**-8.66**
4900	2,4,7,9,10,16,20,23,26,31,34,36,39,45,55	0.50	0.14	0.73	0.64	-0.36	0.13	-0.64	0.76	1.78	2.05	-1.16	-0.90	0.32	0.23	-1.55	1.14	-0.72	**3.07**
4901	2,4,7,9,10,16,20,23,26,31,34,38,40,42,46,48,51	-0.21	-0.38	-0.35	1.05	0.21	-0.30	-0.40	0.40	0.23	-0.88	0.98	1.01	-0.63	0.23	-1.55	1.14	1.40	**1.95**
4902	2,4,7,9,10,16,20,23,26,31,34,38,40,42,46,48,52,53,54	-0.54	-0.38	-0.70	0.66	0.74	-1.16	-0.64	0.58	0.35	-0.88	0.66	0.05	-1.11	0.23	-1.55	1.14	1.40	**-1.14**
4903	2,4,7,9,10,16,20,23,26,31,34,38,40,42,47,50,54	-1.42	-0.12	-1.55	-0.39	1.62	-0.30	-1.35	0.58	1.06	-0.65	-0.63	-0.90	-1.45	0.23	-1.55	1.14	1.40	**-4.28**
4904	2,4,7,9,10,16,20,23,26,31,34,38,40,42,49,53,54	-1.46	-0.38	-1.57	-0.44	1.59	-1.16	-1.59	1.10	0.48	-0.78	-0.45	0.05	-1.48	0.23	-1.55	1.14	1.40	**-4.86**
4905	2,4,7,9,10,16,20,23,26,31,34,38,41,44,55	-0.95	-1.15	-0.82	-0.67	1.47	-1.59	-1.59	0.40	0.81	-0.73	-0.16	-0.90	-0.96	0.23	-1.55	1.14	1.40	**-5.62**
4906	2,4,7,9,10,16,20,23,26,31,34,38,41,45,55	0.75	-0.12	0.02	0.35	0.98	0.55	-0.40	0.98	2.13	0.08	0.55	-0.90	-0.08	0.23	-1.55	1.14	1.40	**6.11**
4907	2,4,7,9,10,16,20,23,26,31,34,38,43,47,46,48,51	-0.21	-0.64	-0.35	1.13	0.25	-0.30	-0.40	0.40	0.23	-0.85	0.98	1.01	-0.62	0.23	-1.55	1.14	1.40	**1.86**
4908	2,4,7,9,10,16,20,23,26,31,34,38,43,47,46,48,52,53,54	-0.53	-0.64	-0.70	0.74	0.79	-1.16	-0.64	0.58	0.35	-0.85	0.66	0.05	-1.11	0.23	-1.55	1.14	1.40	**-1.23**
4909	2,4,7,9,10,16,20,23,26,31,34,38,43,47,49,53,54	-1.46	-0.38	-1.57	-0.36	1.64	-1.16	-1.59	1.10	0.48	-0.74	-0.44	0.05	-1.48	0.23	-1.55	1.14	1.40	**-4.69**
4910	2,4,7,9,10,16,20,23,26,31,34,38,43,50,54	-1.56	-0.90	-1.59	-0.48	1.57	-1.16	-1.35	0.58	1.06	-0.70	-0.68	-0.90	-1.52	0.23	-1.55	1.14	1.40	**-6.41**
4911	2,4,7,9,10,16,20,23,26,33,37,40,41,44,55	-0.93	-1.67	-0.82	-0.66	0.39	-1.16	-1.35	0.04	0.18	-0.72	-0.13	-0.90	-0.92	0.23	-1.55	1.14	-0.72	**-9.56**
4912	2,4,7,9,10,16,20,23,26,33,37,40,41,45,55	0.77	-0.64	0.02	0.36	-0.10	0.98	-0.16	0.61	1.50	0.09	0.58	-0.90	-0.04	0.23	-1.55	1.14	-0.72	**2.17**
4913	2,4,7,9,10,16,20,23,26,33,37,40,43,47,46,48,51	-0.18	-0.64	-0.34	1.14	-0.83	0.13	-0.16	0.04	-0.39	-0.84	1.00	1.01	-0.58	0.23	-1.55	1.14	-0.72	**-1.57**
4914	2,4,7,9,10,16,20,23,26,33,37,40,43,47,46,48,52,53,54	-0.51	-0.64	-0.70	0.75	-0.29	-0.73	-0.40	0.21	-0.27	-0.84	0.68	0.05	-1.07	0.23	-1.55	1.14	-0.72	**-4.65**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
4915	2,4,7,9,10,16,20,23,26,33,37,40,43,47,49,53,54	-1.44	-0.38	-1.57	-0.35	0.56	-0.73	-1.35	0.73	-0.15	-0.74	-0.42	0.05	-1.44	0.23	-1.55	1.14	-0.72	**-8.12**
4916	2,4,7,9,10,16,20,23,26,33,37,40,43,50,54	-1.54	-0.90	-1.58	-0.47	0.50	-0.73	-1.11	0.21	0.44	-0.70	-0.66	-0.90	-1.48	0.23	-1.55	1.14	-0.72	**-9.84**
4917	2,4,7,9,10,16,20,23,26,33,37,42,46,48,51	-0.31	-1.41	-0.38	1.06	-0.87	-0.73	-0.16	0.04	-0.39	-0.88	0.96	1.01	-0.66	0.23	-1.55	1.14	-0.72	**-3.64**
4918	2,4,7,9,10,16,20,23,26,33,37,42,46,48,52,53,54	-0.64	-1.41	-0.74	0.67	-0.33	-1.59	-0.40	0.21	-0.27	-0.88	0.64	0.05	-1.14	0.23	-1.55	1.14	-0.72	**-6.72**
4919	2,4,7,9,10,16,20,23,26,33,37,42,47,50,54	-1.53	-1.15	-1.58	-0.38	0.55	-0.73	-1.11	0.21	0.44	-0.64	-0.64	-0.90	-1.48	0.23	-1.55	1.14	-0.72	**-9.86**
4920	2,4,7,9,10,16,20,23,26,33,37,42,49,53,54	-1.57	-1.41	-1.60	-0.43	0.52	-1.59	-1.35	0.73	-0.15	-0.77	-0.46	0.05	-1.51	0.23	-1.55	1.14	-0.72	**-10.45**
4921	2,4,7,9,10,16,20,23,27,28,31,30,32,46,47,50,54	1.00	0.66	0.07	-0.63	0.69	0.98	1.04	-0.38	1.73	0.25	0.47	-0.90	0.60	0.95	-1.55	-0.77	0.98	**5.18**
4922	2,4,7,9,10,16,20,23,27,28,31,30,32,46,49,53,54	0.95	0.40	0.05	-0.68	0.66	0.13	0.80	0.14	1.15	0.12	0.63	0.05	0.56	0.95	-1.55	-0.77	0.98	**4.58**
4923	2,4,7,9,10,16,20,23,27,28,31,30,32,48,51	0.45	-0.12	0.80	-1.27	-1.29	0.98	1.52	-0.56	0.91	0.02	0.12	-0.90	1.07	0.95	-1.55	-0.77	0.98	**1.33**
4924	2,4,7,9,10,16,20,23,27,28,31,30,32,48,52,53,54	0.13	-0.12	0.44	-1.66	-0.75	0.13	1.28	-0.38	1.03	0.02	-0.20	-1.85	0.59	0.95	-1.55	-0.77	0.98	**-1.76**
4925	2,4,7,9,10,16,20,23,27,28,31,33,37,40,41,44,55	-0.89	-1.15	-0.86	-0.63	0.60	-1.16	-1.35	0.04	-0.17	-0.35	-0.39	-0.90	-0.95	0.23	-1.55	-0.77	-0.72	**-11.00**
4926	2,4,7,9,10,16,20,23,27,28,31,33,37,40,41,45,55	0.81	-0.12	-0.02	0.39	0.11	0.98	-0.16	0.61	1.15	0.46	0.32	-0.90	-0.08	0.23	-1.55	-0.77	-0.72	**0.73**
4927	2,4,7,9,10,16,20,23,27,28,31,33,37,40,43,47,46,48,51	-0.15	-0.12	-0.38	1.16	-0.62	0.13	-0.16	0.04	-0.75	-0.47	0.74	1.01	-0.62	0.23	-1.55	-0.77	-0.72	**-3.00**
4928	2,4,7,9,10,16,20,23,27,28,31,33,37,40,43,47,46,48,52,53,54	-0.47	-0.12	-0.74	0.78	-0.08	-0.73	-0.40	0.21	-0.62	-0.47	0.42	0.05	-1.10	0.23	-1.55	-0.77	-0.72	**-6.09**
4929	2,4,7,9,10,16,20,23,27,28,31,33,37,40,43,47,49,53,54	-1.40	0.14	-1.61	-0.32	0.77	-0.73	-1.35	0.73	-0.50	-0.37	-0.68	0.05	-1.47	0.23	-1.55	-0.77	-0.72	**-9.56**
4930	2,4,7,9,10,16,20,23,27,28,31,33,37,40,43,50,54	-1.50	-0.38	-1.63	-0.44	0.70	-0.73	-1.11	0.21	0.08	-0.33	-0.92	-0.90	-1.52	0.23	-1.55	-0.77	-0.72	**-11.27**
4931	2,4,7,9,10,16,20,23,27,28,31,33,37,42,46,48,51	-0.28	-0.90	-0.42	1.08	-0.66	-0.73	-0.16	0.04	-0.75	-0.51	0.71	1.01	-0.69	0.23	-1.55	-0.77	-0.72	**-5.08**
4932	2,4,7,9,10,16,20,23,27,28,31,33,37,42,46,48,52,53,54	-0.61	-0.90	-0.78	0.70	-0.13	-1.59	-0.40	0.21	-0.62	-0.51	0.39	0.05	-1.18	0.23	-1.55	-0.77	-0.72	**-8.16**
4933	2,4,7,9,10,16,20,23,27,28,31,33,37,42,47,50,54	-1.49	-0.64	-1.62	-0.35	0.75	-0.73	-1.11	0.21	0.08	-0.27	-0.90	-0.90	-1.51	0.23	-1.55	-0.77	-0.72	**-11.30**
4934	2,4,7,9,10,16,20,23,27,28,31,33,37,42,49,53,54	-1.53	-0.90	-1.64	-0.40	0.73	-1.59	-1.35	0.73	-0.50	-0.40	-0.72	0.05	-1.55	0.23	-1.55	-0.77	-0.72	**-11.89**
4935	2,4,7,9,10,16,20,23,27,28,34,35,37,40,41,44,55	-0.92	-1.15	-0.85	-0.61	0.96	-1.16	-1.59	0.04	0.13	-0.39	-0.41	-0.90	-1.00	0.23	-1.55	-0.77	-0.72	**-10.69**
4936	2,4,7,9,10,16,20,23,27,28,34,35,37,40,41,45,55	0.78	-0.12	-0.01	0.41	0.46	0.98	-0.40	0.61	1.45	0.42	0.29	-0.90	-0.12	0.23	-1.55	-0.77	-0.72	**1.04**
4937	2,4,7,9,10,16,20,23,27,28,34,35,37,40,43,47,46,48,51	-0.18	-0.12	-0.38	1.19	-0.26	0.13	-0.40	0.04	-0.44	-0.52	0.72	1.01	-0.66	0.23	-1.55	-0.77	-0.72	**-2.70**
4938	2,4,7,9,10,16,20,23,27,28,34,35,37,40,43,47,46,48,52,53,54	-0.50	-0.12	-0.73	0.80	0.28	-0.73	-0.64	0.21	-0.32	-0.52	0.40	0.05	-1.15	0.23	-1.55	-0.77	-0.72	**-5.78**
4939	2,4,7,9,10,16,20,23,27,28,34,35,37,40,43,47,49,53,54	-1.43	0.14	-1.60	-0.30	1.13	-0.73	-1.59	0.73	-0.20	-0.41	-0.71	0.05	-1.52	0.23	-1.55	-0.77	-0.72	**-9.25**
4940	2,4,7,9,10,16,20,23,27,28,34,35,37,40,43,50,54	-1.53	-0.38	-1.62	-0.42	1.06	-0.73	-1.35	0.21	0.38	-0.37	-0.95	-0.90	-1.56	0.23	-1.55	-0.77	-0.72	**-10.97**
4941	2,4,7,9,10,16,20,23,27,28,34,35,37,42,46,48,51	-0.31	-0.90	-0.41	1.11	-0.31	-0.73	-0.40	0.04	-0.44	-0.55	0.68	1.01	-0.73	0.23	-1.55	-0.77	-0.72	**-4.77**
4942	2,4,7,9,10,16,20,23,27,28,34,35,37,42,46,48,52,53,54	-0.63	-0.90	-0.77	0.72	0.23	-1.59	-0.64	0.21	-0.32	-0.55	0.36	0.05	-1.22	0.23	-1.55	-0.77	-0.72	**-7.86**
4943	2,4,7,9,10,16,20,23,27,28,34,35,37,42,47,50,54	-1.52	-0.64	-1.62	-0.33	1.11	-0.73	-1.35	0.21	0.38	-0.32	-0.93	-0.90	-1.56	0.23	-1.55	-0.77	-0.72	**-10.99**
4944	2,4,7,9,10,16,20,23,27,28,34,35,37,42,49,53,54	-1.56	-0.90	-1.64	-0.38	1.08	-1.59	-1.59	0.73	-0.20	-0.44	-0.74	0.05	-1.59	0.23	-1.55	-0.77	-0.72	**-11.58**
4945	2,4,7,9,10,16,20,23,27,28,34,36,39,41,40,42,46,48,51	1.03	-0.12	0.71	1.36	-0.92	-0.73	0.32	0.18	-0.47	1.42	-0.39	1.01	0.31	0.23	-1.55	-0.77	-0.72	**0.89**
4946	2,4,7,9,10,16,20,23,27,28,34,36,39,41,40,42,46,48,52,53,54	0.70	-0.12	0.36	0.97	-0.39	-1.59	0.08	0.36	-0.35	1.42	-0.71	0.05	-0.18	0.23	-1.55	-0.77	-0.72	**-2.20**
4947	2,4,7,9,10,16,20,23,27,28,34,36,39,41,40,42,47,50,54	-0.19	0.14	-0.49	-0.07	0.49	-0.73	-0.64	0.36	0.35	1.66	-1.99	-0.90	-0.51	0.23	-1.55	-0.77	-0.72	**-5.34**
4948	2,4,7,9,10,16,20,23,27,28,34,36,39,41,40,42,49,53,54	-0.23	-0.12	-0.51	-0.12	0.47	-1.59	-0.87	0.88	-0.23	1.53	-1.81	0.05	-0.55	0.23	-1.55	-0.77	-0.72	**-5.92**
4949	2,4,7,9,10,16,20,23,27,28,34,36,39,41,43,47,46,48,51	1.03	0.14	0.72	1.44	-0.88	-0.73	0.32	0.18	-0.47	1.46	-0.38	1.01	0.31	0.23	-1.55	-0.77	-0.72	**1.32**
4950	2,4,7,9,10,16,20,23,27,28,34,36,39,41,43,47,46,48,52,53,54	0.70	0.14	0.36	1.05	-0.34	-1.59	0.08	0.36	-0.35	1.46	-0.70	0.05	-0.17	0.23	-1.55	-0.77	-0.72	**-1.77**
4951	2,4,7,9,10,16,20,23,27,28,34,36,39,41,43,47,49,53,54	-0.23	0.40	-0.51	-0.05	0.51	-1.59	-0.87	0.88	-0.23	1.56	-1.80	0.05	-0.54	0.23	-1.55	-0.77	-0.72	**-5.23**
4952	2,4,7,9,10,16,20,23,27,28,34,36,39,41,43,50,54	-0.33	-0.12	-0.53	-0.16	0.44	-1.59	-0.64	0.36	0.35	1.61	-2.05	-0.90	-0.59	0.23	-1.55	-0.77	-0.72	**-6.95**
4953	2,4,7,9,10,16,20,23,27,28,34,36,39,44,55	-1.26	-1.41	-0.18	-0.36	0.34	-2.02	-1.83	0.18	0.10	1.58	-2.20	-0.90	-0.65	0.23	-1.55	-0.77	-0.72	**-11.43**
4954	2,4,7,9,10,16,20,23,27,28,34,36,39,45,55	0.44	-0.38	0.66	0.66	-0.15	0.13	-0.64	0.76	1.42	2.39	-1.49	-0.90	0.23	0.23	-1.55	-0.77	-0.72	**0.31**
4955	2,4,7,9,10,16,20,23,27,28,34,38,40,42,46,48,51	-0.27	-0.90	-0.41	1.08	0.41	-0.30	-0.40	0.40	-0.12	-0.54	0.64	1.01	-0.73	0.23	-1.55	-0.77	1.40	**-0.82**
4956	2,4,7,9,10,16,20,23,27,28,34,38,40,42,46,48,52,53,54	-0.59	-0.90	-0.77	0.69	0.95	-1.16	-0.64	0.58	0.00	-0.54	0.32	0.05	-1.21	0.23	-1.55	-0.77	1.40	**-3.90**
4957	2,4,7,9,10,16,20,23,27,28,34,38,40,42,47,50,54	-1.48	-0.64	-1.62	-0.36	1.83	-0.30	-1.35	0.58	0.71	-0.31	-0.97	-0.90	-1.55	0.23	-1.55	-0.77	1.40	**-7.04**
4958	2,4,7,9,10,16,20,23,27,28,34,38,40,42,49,53,54	-1.52	-0.90	-1.64	-0.41	1.80	-1.16	-1.59	1.10	0.13	-0.43	-0.78	0.05	-1.58	0.23	-1.55	-0.77	1.40	**-7.63**
4959	2,4,7,9,10,16,20,23,27,28,34,38,41,44,55	-1.01	-1.67	-0.89	-0.64	1.67	-1.59	-1.59	0.40	0.45	-0.38	-0.49	-0.90	-1.06	0.23	-1.55	-0.77	1.40	**-8.39**
4960	2,4,7,9,10,16,20,23,27,28,34,38,41,45,55	0.69	-0.64	-0.05	0.38	1.18	0.55	-0.40	0.98	1.78	0.43	0.21	-0.90	-0.18	0.23	-1.55	-0.77	1.40	**3.35**
4961	2,4,7,9,10,16,20,23,27,28,34,38,43,47,46,48,51	-0.27	-1.15	-0.41	1.16	0.46	-0.30	-0.40	0.40	-0.12	-0.50	0.65	1.01	-0.72	0.23	-1.55	-0.77	1.40	**-0.91**
4962	2,4,7,9,10,16,20,23,27,28,34,38,43,47,46,48,52,53,54	-0.59	-1.15	-0.77	0.77	0.99	-1.16	-0.64	0.58	0.00	-0.50	0.33	0.05	-1.21	0.23	-1.55	-0.77	1.40	**-3.99**
4963	2,4,7,9,10,16,20,23,27,28,34,38,43,47,49,53,54	-1.52	-0.90	-1.64	-0.33	1.84	-1.16	-1.59	1.10	0.13	-0.40	-0.78	0.05	-1.58	0.23	-1.55	-0.77	1.40	**-7.46**
4964	2,4,7,9,10,16,20,23,27,28,34,38,43,50,54	-1.62	-1.41	-1.66	-0.45	1.78	-1.16	-1.35	0.58	0.71	-0.36	-1.02	-0.90	-1.62	0.23	-1.55	-0.77	1.40	**-9.18**
4965	2,4,7,9,8,14,30,31,34,35,37,40,41,44,55	0.49	-2.19	1.26	-0.46	0.78	-0.73	0.80	-0.61	-3.02	0.14	0.87	0.05	0.64	-0.89	-1.55	-0.77	-0.72	**-5.92**
4966	2,4,7,9,8,14,30,31,34,35,37,40,41,45,55	2.19	-1.15	2.10	0.56	0.29	1.41	1.99	-0.04	-1.69	0.95	1.58	0.05	1.52	-0.89	-1.55	-0.77	-0.72	**5.81**
4967	2,4,7,9,8,14,30,31,34,35,37,40,43,47,46,48,51	1.23	-1.15	1.73	1.34	-0.44	0.55	1.99	-0.61	-3.59	0.02	2.00	1.96	0.98	-0.89	-1.55	-0.77	-0.72	**2.07**
4968	2,4,7,9,8,14,30,31,34,35,37,40,43,47,46,48,52,53,54	0.91	-1.15	1.38	0.95	0.10	-0.30	1.75	-0.44	-3.47	0.02	1.68	1.01	0.49	-0.89	-1.55	-0.77	-0.72	**-1.01**
4969	2,4,7,9,8,14,30,31,34,35,37,40,43,47,49,53,54	-0.02	-0.90	0.51	-0.15	0.95	-0.30	0.80	0.08	-3.34	0.12	0.58	1.01	0.12	-0.89	-1.55	-0.77	-0.72	**-4.48**
4970	2,4,7,9,8,14,30,31,34,35,37,40,43,50,54	-0.12	-1.41	0.49	-0.27	0.89	-0.30	1.04	-0.44	-2.76	0.17	0.34	0.05	0.08	-0.89	-1.55	-0.77	-0.72	**-6.20**
4971	2,4,7,9,8,14,30,31,34,35,37,42,46,48,51	1.10	-1.93	1.70	1.26	-0.48	-0.30	1.99	-0.61	-3.59	-0.01	1.96	1.96	0.90	-0.89	-1.55	-0.77	-0.72	**0.00**
4972	2,4,7,9,8,14,30,31,34,35,37,42,46,48,52,53,54	0.77	-1.93	1.34	0.87	0.06	-1.16	1.75	-0.44	-3.47	-0.01	1.65	1.01	0.42	-0.89	-1.55	-0.77	-0.72	**-3.08**
4973	2,4,7,9,8,14,30,31,34,35,37,42,47,50,54	-0.11	-1.67	0.49	-0.18	0.94	-0.30	1.04	-0.44	-2.76	0.22	0.36	0.05	0.08	-0.89	-1.55	-0.77	-0.72	**-6.22**
4974	2,4,7,9,8,14,30,31,34,35,37,42,49,53,54	-0.15	-1.93	0.47	-0.23	0.91	-1.16	0.80	0.08	-3.34	0.09	0.54	1.01	0.05	-0.89	-1.55	-0.77	-0.72	**-6.81**
4975	2,4,7,9,8,14,30,31,34,36,39,41,40,42,46,48,51	2.43	-1.15	2.83	1.51	-1.10	-0.30	2.71	-0.47	-3.62	1.96	0.90	1.96	1.95	-0.89	-1.55	-0.77	-0.72	**5.66**
4976	2,4,7,9,8,14,30,31,34,36,39,41,40,42,46,48,52,53,54	2.11	-1.15	2.47	1.13	-0.56	-1.16	2.47	-0.29	-3.50	1.96	0.58	1.01	1.46	-0.89	-1.55	-0.77	-0.72	**2.57**
4977	2,4,7,9,8,14,30,31,34,36,39,41,40,42,47,50,54	1.22	-0.90	1.62	0.08	0.32	-0.30	1.75	-0.29	-2.79	2.19	-0.71	0.05	1.13	-0.89	-1.55	-0.77	-0.72	**-0.57**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
4978	2,4,7,9,8,14,30,31,34,36,39,41,40,42,49,53,54	1.18	-1.15	1.60	0.03	0.29	-1.16	1.52	0.23	-3.37	2.06	-0.53	1.01	1.09	-0.89	-1.55	-0.77	-0.72	**-1.15**
4979	2,4,7,9,8,14,30,31,34,36,39,41,43,47,46,48,51	2.44	-0.90	2.83	1.59	-1.06	-0.30	2.71	-0.47	-3.62	1.99	0.90	1.96	1.95	-0.89	-1.55	-0.77	-0.72	**6.09**
4980	2,4,7,9,8,14,30,31,34,36,39,41,43,47,46,48,52,53,54	2.11	-0.90	2.47	1.20	-0.52	-1.16	2.47	-0.29	-3.50	1.99	0.58	1.01	1.47	-0.89	-1.55	-0.77	-0.72	**3.00**
4981	2,4,7,9,8,14,30,31,34,36,39,41,43,47,49,53,54	1.18	-0.64	1.60	0.11	0.33	-1.16	1.52	0.23	-3.37	2.10	-0.52	1.01	1.10	-0.89	-1.55	-0.77	-0.72	**-0.46**
4982	2,4,7,9,8,14,30,31,34,36,39,41,43,50,54	1.08	-1.15	1.58	-0.01	0.27	-1.16	1.75	-0.29	-2.79	2.14	-0.76	0.05	1.05	-0.89	-1.55	-0.77	-0.72	**-2.18**
4983	2,4,7,9,8,14,30,31,34,36,39,44,55	0.15	-2.45	1.93	-0.21	0.16	-1.59	0.56	-0.47	-3.05	2.12	-0.91	0.05	0.99	-0.89	-1.55	-0.77	-0.72	**-6.66**
4984	2,4,7,9,8,14,30,31,34,36,39,45,55	1.85	-1.41	2.77	0.81	-0.33	0.55	1.75	0.11	-1.72	2.93	-0.21	0.05	1.86	-0.89	-1.55	-0.77	-0.72	**5.08**
4985	2,4,7,9,8,14,30,31,34,38,40,42,46,48,51	1.14	-1.93	1.70	1.23	0.24	0.13	1.99	-0.25	-3.27	0.00	1.93	1.96	0.91	-0.89	-1.55	-0.77	1.40	**3.96**
4986	2,4,7,9,8,14,30,31,34,38,40,42,46,48,52,53,54	0.81	-1.93	1.34	0.84	0.77	-0.73	1.75	-0.07	-3.14	0.00	1.61	1.01	0.43	-0.89	-1.55	-0.77	1.40	**0.87**
4987	2,4,7,9,8,14,30,31,34,38,40,42,47,50,54	-0.07	-1.67	0.49	-0.21	1.65	0.13	1.04	-0.07	-2.44	0.23	0.32	0.05	0.09	-0.89	-1.55	-0.77	1.40	**-2.27**
4988	2,4,7,9,8,14,30,31,34,38,40,42,49,53,54	-0.11	-1.93	0.47	-0.26	1.62	-0.73	0.80	0.45	-3.02	0.10	0.50	1.01	0.06	-0.89	-1.55	-0.77	1.40	**-2.85**
4989	2,4,7,9,8,14,30,31,34,38,41,44,55	0.40	-2.71	1.22	-0.49	1.50	-1.16	0.80	-0.25	-2.69	0.15	0.79	0.05	0.58	-0.89	-1.55	-0.77	1.40	**-3.62**
4990	2,4,7,9,8,14,30,31,34,38,41,45,55	2.10	-1.67	2.06	0.53	1.01	0.98	1.99	0.33	-1.37	0.96	1.50	0.05	1.46	-0.89	-1.55	-0.77	1.40	**8.12**
4991	2,4,7,9,8,14,30,31,34,38,43,47,46,48,51	1.14	-2.19	1.70	1.31	0.28	0.13	1.99	-0.25	-3.27	0.03	1.93	1.96	0.92	-0.89	-1.55	-0.77	1.40	**3.87**
4992	2,4,7,9,8,14,30,31,34,38,43,47,46,48,52,53,54	0.82	-2.19	1.34	0.92	0.82	-0.73	1.75	-0.07	-3.14	0.03	1.61	1.01	0.43	-0.89	-1.55	-0.77	1.40	**0.78**
4993	2,4,7,9,8,14,30,31,34,38,43,47,49,53,54	-0.11	-1.93	0.47	-0.18	1.67	-0.73	0.80	0.45	-3.02	0.13	0.51	1.01	0.06	-0.89	-1.55	-0.77	1.40	**-2.69**
4994	2,4,7,9,8,14,30,31,34,38,43,50,54	-0.21	-2.45	0.46	-0.30	1.60	-0.73	1.04	-0.07	-2.44	0.18	0.27	0.05	0.02	-0.89	-1.55	-0.77	1.40	**-4.40**
4995	2,4,7,9,8,14,30,33,37,40,41,44,55	0.42	-2.71	1.23	-0.48	0.42	-0.73	1.04	-0.61	-3.32	0.16	0.82	0.05	0.62	-0.89	-1.55	-0.77	-0.72	**-7.04**
4996	2,4,7,9,8,14,30,33,37,40,41,45,55	2.12	-1.67	2.07	0.54	-0.07	1.41	2.23	-0.04	-1.99	0.97	1.52	0.05	1.50	-0.89	-1.55	-0.77	-0.72	**4.70**
4997	2,4,7,9,8,14,30,33,37,40,43,47,46,48,51	1.17	-1.67	1.70	1.31	-0.80	0.55	2.23	-0.61	-3.89	0.04	1.95	1.96	0.96	-0.89	-1.55	-0.77	-0.72	**0.96**
4998	2,4,7,9,8,14,30,33,37,40,43,47,46,48,52,53,54	0.84	-1.67	1.35	0.93	-0.26	-0.30	1.99	-0.44	-3.77	0.04	1.63	1.01	0.47	-0.89	-1.55	-0.77	-0.72	**-2.13**
4999	2,4,7,9,8,14,30,33,37,40,43,47,49,53,54	-0.09	-1.41	0.48	-0.17	0.59	-0.30	1.04	0.08	-3.64	0.14	0.52	1.01	0.10	-0.89	-1.55	-0.77	-0.72	**-5.59**
5000	2,4,7,9,8,14,30,33,37,40,43,50,54	-0.19	-1.93	0.46	-0.29	0.53	-0.30	1.28	-0.44	-3.06	0.18	0.28	0.05	0.06	-0.89	-1.55	-0.77	-0.72	**-7.31**
5001	2,4,7,9,8,14,30,33,37,42,46,48,51	1.04	-2.45	1.67	1.23	-0.84	-0.30	2.23	-0.61	-3.89	0.00	1.91	1.96	0.88	-0.89	-1.55	-0.77	-0.72	**-1.11**
5002	2,4,7,9,8,14,30,33,37,42,46,48,52,53,54	0.71	-2.45	1.31	0.85	-0.30	-1.16	1.99	-0.44	-3.77	0.00	1.59	1.01	0.40	-0.89	-1.55	-0.77	-0.72	**-4.20**
5003	2,4,7,9,8,14,30,33,37,42,47,50,54	-0.18	-2.19	0.46	-0.20	0.58	-0.30	1.28	-0.44	-3.06	0.24	0.30	0.05	0.06	-0.89	-1.55	-0.77	-0.72	**-7.34**
5004	2,4,7,9,8,14,30,33,37,42,49,53,54	-0.22	-2.45	0.44	-0.25	0.55	-1.16	1.04	0.08	-3.64	0.11	0.49	1.01	0.03	-0.89	-1.55	-0.77	-0.72	**-7.92**
5005	2,4,7,9,8,14,32,46,47,50,54	1.44	-1.41	1.92	-0.48	0.51	0.55	2.95	-1.03	-1.41	0.76	0.76	0.05	1.58	-0.37	-1.55	-0.77	0.98	**4.48**
5006	2,4,7,9,8,14,32,46,49,53,54	1.40	-1.67	1.90	-0.53	0.49	-0.30	2.71	-0.51	-1.99	0.63	0.92	1.01	1.54	-0.37	-1.55	-0.77	0.98	**3.87**
5007	2,4,7,9,8,14,32,48,51	0.90	-2.19	2.65	-1.12	-1.47	0.55	3.43	-1.21	-2.24	0.53	0.41	0.05	2.05	-0.37	-1.55	-0.77	0.98	**0.63**
5008	2,4,7,9,8,14,32,48,52,53,54	0.57	-2.19	2.29	-1.51	-0.93	-0.30	3.19	-1.03	-2.12	0.53	0.09	-0.90	1.57	-0.37	-1.55	-0.77	0.98	**-2.46**
5009	2,5,19,18,19,22,24,29,36,35,37,40,41,44,55	1.10	0.66	2.00	-2.28	-2.36	0.98	-1.11	-0.90	1.64	1.42	-1.52	1.96	2.47	2.30	-0.16	1.14	0.55	**7.89**
5010	2,5,19,18,19,22,24,29,36,35,37,40,41,45,55	2.80	1.70	2.84	-1.26	-2.85	3.12	0.08	-0.32	2.96	2.24	-0.81	1.96	3.34	2.30	-0.16	1.14	0.55	**19.63**
5011	2,5,19,18,19,22,24,29,36,35,37,40,43,47,46,48,51	1.84	1.44	2.47	-0.48	-3.58	2.27	0.08	-0.90	1.06	1.30	-0.39	3.87	2.80	2.30	-0.16	1.14	0.55	**15.63**
5012	2,5,19,18,19,22,24,29,36,35,37,40,43,47,46,48,52,53,54	1.51	1.70	2.12	-0.87	-3.04	1.41	-0.16	-0.72	1.19	1.30	-0.71	2.92	2.32	2.30	-0.16	1.14	0.55	**12.81**
5013	2,5,19,18,19,22,24,29,36,35,37,40,43,47,49,53,54	0.59	1.96	1.25	-1.97	-2.19	1.41	-1.11	-0.20	1.31	1.41	-1.81	2.92	1.95	2.30	-0.16	1.14	0.55	**9.34**
5014	2,5,19,18,19,22,24,29,36,35,37,40,43,50,54	0.49	1.44	1.23	-2.09	-2.25	1.41	-0.87	-0.72	1.89	1.45	-2.05	1.96	1.90	2.30	-0.16	1.14	0.55	**7.62**
5015	2,5,19,18,19,22,24,29,36,35,37,42,46,48,51	1.71	0.66	2.44	-0.56	-3.62	1.41	0.08	-0.90	1.06	1.27	-0.42	3.87	2.73	2.30	-0.16	1.14	0.55	**13.56**
5016	2,5,19,18,19,22,24,29,36,35,37,42,46,48,52,53,54	1.38	0.92	2.08	-0.95	-3.09	0.55	-0.16	-0.72	1.19	1.27	-0.74	2.92	2.24	2.30	-0.16	1.14	0.55	**10.73**
5017	2,5,19,18,19,22,24,29,36,35,37,42,47,50,54	0.50	1.18	1.23	-2.00	-2.21	1.41	-0.87	-0.72	1.89	1.50	-2.03	1.96	1.91	2.30	-0.16	1.14	0.55	**7.59**
5018	2,5,19,18,19,22,24,29,36,35,37,42,49,53,54	0.45	0.92	1.21	-2.05	-2.23	0.55	-1.11	-0.20	1.31	1.37	-1.85	2.92	1.87	2.30	-0.16	1.14	0.55	**7.01**
5019	2,5,19,18,19,22,24,29,36,38,40,42,46,48,51	1.75	0.92	2.44	-0.59	-2.91	1.84	0.08	-0.53	1.39	1.28	-0.46	3.87	2.74	2.30	-0.16	1.14	2.68	**17.77**
5020	2,5,19,18,19,22,24,29,36,38,40,42,46,48,52,53,54	1.42	1.18	2.08	-0.98	-2.37	0.98	-0.16	-0.35	1.51	1.28	-0.78	2.92	2.25	2.30	-0.16	1.14	2.68	**14.95**
5021	2,5,19,18,19,22,24,29,36,38,40,42,47,50,54	0.54	1.44	1.23	-2.03	-1.49	1.84	-0.87	-0.35	2.22	1.51	-2.07	1.96	1.92	2.30	-0.16	1.14	2.68	**11.81**
5022	2,5,19,18,19,22,24,29,36,38,40,42,49,53,54	0.49	1.18	1.21	-2.08	-1.52	0.98	-1.11	0.17	1.63	1.38	-1.89	2.92	1.88	2.30	-0.16	1.14	2.68	**11.22**
5023	2,5,19,18,19,22,24,29,36,38,41,44,55	1.00	0.40	1.96	-2.31	-1.64	0.55	-1.11	-0.53	1.96	1.44	-1.60	1.96	2.41	2.30	-0.16	1.14	2.68	**10.46**
5024	2,5,19,18,19,22,24,29,36,38,41,45,55	2.71	1.44	2.80	-1.29	-2.14	2.70	0.08	0.05	3.28	2.25	-0.89	1.96	3.28	2.30	-0.16	1.14	2.68	**22.20**
5025	2,5,19,18,19,22,24,29,36,38,43,47,46,48,51	1.75	0.66	2.44	-0.52	-2.86	1.84	0.08	-0.53	1.39	1.31	-0.46	3.87	2.74	2.30	-0.16	1.14	2.68	**17.68**
5026	2,5,19,18,19,22,24,29,36,38,43,47,46,48,52,53,54	1.42	0.92	2.08	-0.90	-2.32	0.98	-0.16	-0.35	1.51	1.31	-0.78	2.92	2.26	2.30	-0.16	1.14	2.68	**14.86**
5027	2,5,19,18,19,22,24,29,36,38,43,47,49,53,54	0.49	1.18	1.22	-2.00	-1.47	0.98	-1.11	0.17	1.63	1.42	-1.88	2.92	1.89	2.30	-0.16	1.14	2.68	**11.39**
5028	2,5,19,18,19,22,24,29,36,38,43,50,54	0.40	0.66	1.20	-2.12	-1.54	0.98	-0.87	-0.35	2.22	1.46	-2.12	1.96	1.84	2.30	-0.16	1.14	2.68	**9.67**
5029	2,5,19,18,19,22,24,29,39,41,40,42,46,48,51	1.95	0.66	3.27	-0.94	-4.24	0.55	0.80	-0.75	1.03	2.60	-1.73	3.87	3.22	2.30	-0.16	1.14	0.55	**14.12**
5030	2,5,19,18,19,22,24,29,39,41,40,42,46,48,52,53,54	1.62	0.92	2.91	-1.32	-3.70	-0.30	0.56	-0.57	1.16	2.60	-2.05	2.92	2.73	2.30	-0.16	1.14	0.55	**11.30**
5031	2,5,19,18,19,22,24,29,39,41,40,42,47,50,54	0.74	1.18	2.07	-2.37	-2.82	0.55	-0.16	-0.57	1.86	2.83	-3.34	1.96	2.40	2.30	-0.16	1.14	0.55	**8.16**
5032	2,5,19,18,19,22,24,29,39,41,40,42,49,53,54	0.69	0.92	2.05	-2.42	-2.85	-0.30	-0.40	-0.05	1.28	2.71	-3.16	2.92	2.36	2.30	-0.16	1.14	0.55	**7.57**
5033	2,5,19,18,19,22,24,29,39,41,43,47,46,48,51	1.95	0.92	3.27	-0.86	-4.20	0.55	0.80	-0.75	1.03	2.63	-1.73	3.87	3.22	2.30	-0.16	1.14	0.55	**14.55**
5034	2,5,19,18,19,22,24,29,39,41,43,47,46,48,52,53,54	1.62	1.18	2.91	-1.24	-3.66	-0.30	0.56	-0.57	1.16	2.63	-2.05	2.92	2.74	2.30	-0.16	1.14	0.55	**11.73**
5035	2,5,19,18,19,22,24,29,39,41,43,47,49,53,54	0.70	1.44	2.05	-2.34	-2.81	-0.30	-0.40	-0.05	1.28	2.74	-3.15	2.92	2.36	2.30	-0.16	1.14	0.55	**8.26**
5036	2,5,19,18,19,22,24,29,39,41,43,50,54	0.60	0.92	2.03	-2.46	-2.87	-0.30	-0.16	-0.57	1.86	2.78	-3.39	1.96	2.32	2.30	-0.16	1.14	0.55	**6.54**
5037	2,5,19,18,19,22,24,29,39,44,55	-0.34	-0.38	2.38	-2.65	-2.98	-0.73	-1.35	-0.75	1.61	2.76	-3.55	1.96	2.26	2.30	-0.16	1.14	0.55	**2.07**
5038	2,5,19,18,19,22,24,29,39,45,55	1.36	0.66	3.22	-1.64	-3.47	1.41	-0.16	-0.18	2.93	3.57	-2.84	1.96	3.13	2.30	-0.16	1.14	0.55	**13.80**
5039	2,5,19,18,19,22,25,29,36,35,37,40,41,44,55	0.88	0.40	1.94	-2.71	-2.03	0.98	-0.87	-0.87	1.20	1.49	-1.88	1.96	2.41	2.34	-0.16	1.14	0.55	**6.76**
5040	2,5,19,18,19,22,25,29,36,35,37,40,41,45,55	2.58	1.44	2.78	-1.70	-2.52	3.12	0.32	-0.30	2.52	2.30	-1.18	1.96	3.29	2.34	-0.16	1.14	0.55	**18.50**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
5041	2,5,19,18,19,22,25,29,36,35,37,40,43,47,46,48,51	1.63	1.18	2.42	-0.92	-3.25	2.27	0.32	-0.87	0.63	1.37	-0.75	3.87	2.74	2.34	-0.16	1.14	0.55	**14.50**
5042	2,5,19,18,19,22,25,29,36,35,37,40,43,47,46,48,52,53,54	1.30	1.44	2.06	-1.30	-2.71	1.41	0.08	-0.70	0.75	1.37	-1.07	2.92	2.26	2.34	-0.16	1.14	0.55	**11.68**
5043	2,5,19,18,19,22,25,29,36,35,37,40,43,47,49,53,54	0.37	1.70	1.19	-2.40	-1.86	1.41	-0.87	-0.17	0.87	1.48	-2.18	2.92	1.89	2.34	-0.16	1.14	0.55	**8.21**
5044	2,5,19,18,19,22,25,29,36,35,37,40,43,50,54	0.27	1.18	1.17	-2.52	-1.92	1.41	-0.64	-0.70	1.45	1.52	-2.42	1.96	1.85	2.34	-0.16	1.14	0.55	**6.49**
5045	2,5,19,18,19,22,25,29,36,35,37,42,46,48,51	1.49	0.40	2.38	-1.00	-3.29	1.41	0.32	-0.87	0.63	1.34	-0.79	3.87	2.67	2.34	-0.16	1.14	0.55	**12.43**
5046	2,5,19,18,19,22,25,29,36,35,37,42,46,48,52,53,54	1.17	0.66	2.02	-1.38	-2.75	0.55	0.08	-0.70	0.75	1.34	-1.11	2.92	2.19	2.34	-0.16	1.14	0.55	**9.60**
5047	2,5,19,18,19,22,25,29,36,35,37,42,47,50,54	0.28	0.92	1.18	-2.43	-1.87	1.41	-0.64	-0.70	1.45	1.57	-2.40	1.96	1.85	2.34	-0.16	1.14	0.55	**6.46**
5048	2,5,19,18,19,22,25,29,36,35,37,42,49,53,54	0.24	0.66	1.16	-2.48	-1.90	0.55	-0.87	-0.17	0.87	1.44	-2.21	2.92	1.81	2.34	-0.16	1.14	0.55	**5.88**
5049	2,5,19,18,19,22,25,29,36,38,40,42,46,48,51	1.53	0.66	2.38	-1.03	-2.57	1.84	0.32	-0.50	0.95	1.35	-0.83	3.87	2.68	2.34	-0.16	1.14	2.68	**16.64**
5050	2,5,19,18,19,22,25,29,36,38,40,42,46,48,52,53,54	1.21	0.92	2.02	-1.41	-2.04	0.98	0.08	-0.33	1.07	1.35	-1.15	2.92	2.19	2.34	-0.16	1.14	2.68	**13.82**
5051	2,5,19,18,19,22,25,29,36,38,40,42,47,50,54	0.32	1.18	1.17	-2.46	-1.16	1.84	-0.64	-0.33	1.78	1.58	-2.44	1.96	1.86	2.34	-0.16	1.14	2.68	**10.68**
5052	2,5,19,18,19,22,25,29,36,38,40,42,49,53,54	0.28	0.92	1.16	-2.51	-1.18	0.98	-0.87	0.19	1.20	1.45	-2.25	2.92	1.82	2.34	-0.16	1.14	2.68	**10.09**
5053	2,5,19,18,19,22,25,29,36,38,41,44,55	0.79	0.14	1.91	-2.74	-1.31	0.55	-0.87	-0.50	1.52	1.51	-1.96	1.96	2.35	2.34	-0.16	1.14	2.68	**9.33**
5054	2,5,19,18,19,22,25,29,36,38,41,45,55	2.49	1.18	2.75	-1.73	-1.80	2.70	0.32	0.07	2.85	2.32	-1.26	1.96	3.22	2.34	-0.16	1.14	2.68	**21.06**
5055	2,5,19,18,19,22,25,29,36,38,43,47,46,48,51	1.53	0.40	2.38	-0.95	-2.53	1.84	0.32	-0.50	0.95	1.38	-0.82	3.87	2.68	2.34	-0.16	1.14	2.68	**16.55**
5056	2,5,19,18,19,22,25,29,36,38,43,47,46,48,52,53,54	1.21	0.66	2.02	-1.33	-1.99	0.98	0.08	-0.33	1.07	1.38	-1.14	2.92	2.20	2.34	-0.16	1.14	2.68	**13.72**
5057	2,5,19,18,19,22,25,29,36,38,43,47,49,53,54	0.28	0.92	1.16	-2.43	-1.14	0.98	-0.87	0.19	1.20	1.49	-2.25	2.92	1.83	2.34	-0.16	1.14	2.68	**10.26**
5058	2,5,19,18,19,22,25,29,36,38,43,50,54	0.18	0.40	1.14	-2.55	-1.20	0.98	-0.64	-0.33	1.78	1.53	-2.49	1.96	1.78	2.34	-0.16	1.14	2.68	**8.54**
5059	2,5,19,18,19,22,25,29,39,41,40,42,46,48,51	1.73	0.40	3.21	-1.37	-3.91	0.55	1.04	-0.73	0.60	2.67	-2.10	3.87	3.16	2.34	-0.16	1.14	0.55	**12.99**
5060	2,5,19,18,19,22,25,29,39,41,40,42,46,48,52,53,54	1.41	0.66	2.85	-1.76	-3.37	-0.30	0.80	-0.55	0.72	2.67	-2.42	2.92	2.67	2.34	-0.16	1.14	0.55	**10.17**
5061	2,5,19,18,19,22,25,29,39,41,40,42,47,50,54	0.52	0.92	2.01	-2.81	-2.49	0.55	0.08	-0.55	1.42	2.90	-3.70	1.96	2.34	2.34	-0.16	1.14	0.55	**7.03**
5062	2,5,19,18,19,22,25,29,39,41,40,42,49,53,54	0.48	0.66	1.99	-2.86	-2.52	-0.30	-0.16	-0.03	0.84	2.78	-3.52	2.92	2.30	2.34	-0.16	1.14	0.55	**6.44**
5063	2,5,19,18,19,22,25,29,39,41,43,47,46,48,51	1.74	0.66	3.21	-1.29	-3.86	0.55	1.04	-0.73	0.60	2.70	-2.09	3.87	3.16	2.34	-0.16	1.14	0.55	**13.42**
5064	2,5,19,18,19,22,25,29,39,41,43,47,46,48,52,53,54	1.41	0.92	2.86	-1.68	-3.33	-0.30	0.80	-0.55	0.72	2.70	-2.41	2.92	2.68	2.34	-0.16	1.14	0.55	**10.60**
5065	2,5,19,18,19,22,25,29,39,41,43,47,49,53,54	0.48	1.18	1.99	-2.78	-2.47	-0.30	-0.16	-0.03	0.84	2.81	-3.52	2.92	2.31	2.34	-0.16	1.14	0.55	**7.13**
5066	2,5,19,18,19,22,25,29,39,41,43,50,54	0.38	0.66	1.97	-2.90	-2.54	-0.30	0.08	-0.55	1.42	2.85	-3.76	1.96	2.26	2.34	-0.16	1.14	0.55	**5.41**
5067	2,5,19,18,19,22,25,29,39,44,55	-0.55	-0.64	2.32	-3.09	-2.65	-0.73	-1.11	-0.73	1.17	2.83	-3.91	1.96	2.20	2.34	-0.16	1.14	0.55	**0.94**
5068	2,5,19,18,19,22,25,29,39,45,55	1.15	0.40	3.16	-2.07	-3.14	1.41	0.08	-0.15	2.49	3.64	-3.20	1.96	3.08	2.34	-0.16	1.14	0.55	**12.67**
5069	2,5,19,18,21,27,26,30,32,46,47,50,54	1.94	2.74	1.90	-2.06	-1.70	3.55	1.28	-0.96	3.28	1.38	-0.52	1.96	2.80	1.25	-0.16	3.05	2.26	**21.99**
5070	2,5,19,18,21,27,26,30,32,46,49,53,54	1.89	2.48	1.88	-2.11	-1.73	2.70	1.04	-0.44	2.70	1.25	-0.35	2.92	2.77	1.25	-0.16	3.05	2.26	**21.38**
5071	2,5,19,18,21,27,26,30,32,48,51	1.39	1.70	2.63	-2.70	-3.68	3.55	1.75	-1.13	2.45	1.15	-0.86	1.96	3.28	1.25	-0.16	3.05	2.26	**17.87**
5072	2,5,19,18,21,27,26,30,32,48,52,53,54	1.07	1.96	2.27	-3.09	-3.15	2.70	1.52	-0.96	2.57	1.15	-1.18	1.01	2.79	1.25	-0.16	3.05	2.26	**15.05**
5073	2,5,19,18,21,27,26,31,34,35,37,40,41,44,55	0.11	1.44	1.01	-2.04	-1.44	1.41	-1.35	-0.54	1.67	0.76	-1.32	1.96	1.27	0.52	-0.16	3.05	0.55	**6.92**
5074	2,5,19,18,21,27,26,31,34,35,37,40,41,45,55	1.81	2.48	1.85	-1.02	-1.93	3.55	-0.16	0.04	3.00	1.57	-0.61	1.96	2.15	0.52	-0.16	3.05	0.55	**18.65**
5075	2,5,19,18,21,27,26,31,34,35,37,40,43,47,46,48,51	0.86	2.22	1.48	-0.24	-2.65	2.70	-0.16	-0.54	1.10	0.64	-0.19	3.87	1.61	0.52	-0.16	3.05	0.55	**14.65**
5076	2,5,19,18,21,27,26,31,34,35,37,40,43,47,46,48,52,53,54	0.53	2.48	1.13	-0.63	-2.12	1.84	-0.40	-0.36	1.22	0.64	-0.51	2.92	1.12	0.52	-0.16	3.05	0.55	**11.83**
5077	2,5,19,18,21,27,26,31,34,35,37,40,43,47,49,53,54	-0.40	2.74	0.26	-1.73	-1.26	1.84	-1.35	0.16	1.35	0.74	-1.61	2.92	0.75	0.52	-0.16	3.05	0.55	**8.36**
5078	2,5,19,18,21,27,26,31,34,35,37,40,43,50,54	-0.50	2.22	0.24	-1.85	-1.33	1.84	-1.11	-0.36	1.93	0.78	-1.85	1.96	0.71	0.52	-0.16	3.05	0.55	**6.64**
5079	2,5,19,18,21,27,26,31,34,35,37,42,46,48,51	0.72	1.44	1.44	-0.32	-2.70	1.84	-0.16	-0.54	1.10	0.60	-0.22	3.87	1.53	0.52	-0.16	3.05	0.55	**12.58**
5080	2,5,19,18,21,27,26,31,34,35,37,42,46,48,52,53,54	0.40	1.70	1.09	-0.71	-2.16	0.98	-0.40	-0.36	1.22	0.60	-0.54	2.92	1.05	0.52	-0.16	3.05	0.55	**9.76**
5081	2,5,19,18,21,27,26,31,34,35,37,42,47,50,54	-0.49	1.96	0.24	-1.76	-1.28	1.84	-1.11	-0.36	1.93	0.83	-1.83	1.96	0.71	0.52	-0.16	3.05	0.55	**6.62**
5082	2,5,19,18,21,27,26,31,34,35,37,42,49,53,54	-0.53	1.70	0.22	-1.81	-1.31	0.98	-1.35	0.16	1.35	0.71	-1.65	2.92	0.68	0.52	-0.16	3.05	0.55	**6.03**
5083	2,5,19,18,21,27,26,31,34,36,39,41,40,42,46,48,51	2.06	2.22	2.57	-0.07	-3.32	1.84	0.56	-0.39	1.07	2.58	-1.29	3.87	2.58	0.52	-0.16	3.05	0.55	**18.24**
5084	2,5,19,18,21,27,26,31,34,36,39,41,40,42,46,48,52,53,54	1.73	2.48	2.22	-0.45	-2.78	0.98	0.32	-0.22	1.19	2.58	-1.61	2.92	2.09	0.52	-0.16	3.05	0.55	**15.41**
5085	2,5,19,18,21,27,26,31,34,36,39,41,40,42,47,50,54	0.85	2.74	1.37	-1.50	-1.90	1.84	-0.40	-0.22	1.90	2.81	-2.90	1.96	1.76	0.52	-0.16	3.05	0.55	**12.27**
5086	2,5,19,18,21,27,26,31,34,36,39,41,40,42,49,53,54	0.80	2.48	1.35	-1.55	-1.93	0.98	-0.64	0.30	1.32	2.68	-2.71	2.92	1.72	0.52	-0.16	3.05	0.55	**11.69**
5087	2,5,19,18,21,27,26,31,34,36,39,41,43,47,46,48,51	2.06	2.48	2.57	0.01	-3.27	1.84	0.56	-0.39	1.07	2.61	-1.29	3.87	2.58	0.52	-0.16	3.05	0.55	**18.67**
5088	2,5,19,18,21,27,26,31,34,36,39,41,43,47,46,48,52,53,54	1.73	2.74	2.22	-0.37	-2.73	0.98	0.32	-0.22	1.19	2.61	-1.60	2.92	2.09	0.52	-0.16	3.05	0.55	**15.84**
5089	2,5,19,18,21,27,26,31,34,36,39,41,43,47,49,53,54	0.80	3.00	1.35	-1.47	-1.88	0.98	-0.64	0.30	1.32	2.71	-2.71	2.92	1.72	0.52	-0.16	3.05	0.55	**12.38**
5090	2,5,19,18,21,27,26,31,34,36,39,41,43,50,54	0.70	2.48	1.33	-1.59	-1.95	0.98	-0.40	-0.22	1.90	2.76	-2.95	1.96	1.68	0.52	-0.16	3.05	0.55	**10.66**
5091	2,5,19,18,21,27,26,31,34,36,39,44,55	-0.23	1.18	1.68	-1.78	-2.05	0.55	-1.59	-0.39	1.64	2.73	-3.10	1.96	1.62	0.52	-0.16	3.05	0.55	**6.18**
5092	2,5,19,18,21,27,26,31,34,36,39,45,55	1.47	2.22	2.52	-0.76	-2.55	2.70	-0.40	0.18	2.97	3.54	-2.40	1.96	2.49	0.52	-0.16	3.05	0.55	**17.92**
5093	2,5,19,18,21,27,26,31,34,38,40,42,46,48,51	0.76	1.44	1.44	-0.35	-1.98	2.27	-0.16	-0.17	1.42	0.61	-0.26	3.87	1.54	0.52	-0.16	3.05	2.68	**16.54**
5094	2,5,19,18,21,27,26,31,34,38,40,42,46,48,52,53,54	0.44	1.70	1.09	-0.74	-1.44	1.41	-0.40	0.01	1.55	0.61	-0.58	2.92	1.06	0.52	-0.16	3.05	2.68	**13.71**
5095	2,5,19,18,21,27,26,31,34,38,40,42,47,50,54	-0.45	1.96	0.24	-1.79	-0.56	2.27	-1.11	0.01	2.25	0.85	-1.87	1.96	0.72	0.52	-0.16	3.05	2.68	**10.57**
5096	2,5,19,18,21,27,26,31,34,38,40,42,49,53,54	-0.49	1.70	0.22	-1.84	-0.59	1.41	-1.35	0.53	1.67	0.72	-1.69	2.92	0.68	0.52	-0.16	3.05	2.68	**9.98**
5097	2,5,19,18,21,27,26,31,34,38,41,44,55	0.02	0.92	0.97	-2.07	-0.72	0.98	-1.35	-0.17	2.00	0.77	-1.40	1.96	1.21	0.52	-0.16	3.05	2.68	**9.22**
5098	2,5,19,18,21,27,26,31,34,38,41,45,55	1.72	1.96	1.81	-1.05	-1.21	3.12	-0.16	0.41	3.32	1.58	-0.69	1.96	2.09	0.52	-0.16	3.05	2.68	**20.96**
5099	2,5,19,18,21,27,26,31,34,38,43,47,46,48,51	0.77	1.18	1.44	-0.27	-1.94	2.27	-0.16	-0.17	1.42	0.65	-0.26	3.87	1.54	0.52	-0.16	3.05	2.68	**16.45**
5100	2,5,19,18,21,27,26,31,34,38,43,47,46,48,52,53,54	0.44	1.44	1.09	-0.66	-1.40	1.41	-0.40	0.01	1.55	0.65	-0.58	2.92	1.06	0.52	-0.16	3.05	2.68	**13.62**
5101	2,5,19,18,21,27,26,31,34,38,43,47,49,53,54	-0.49	1.70	0.22	-1.76	-0.55	1.41	-1.35	0.53	1.67	0.75	-1.68	2.92	0.69	0.52	-0.16	3.05	2.68	**10.15**
5102	2,5,19,18,21,27,26,31,34,38,43,50,54	-0.59	1.18	0.20	-1.88	-0.61	1.41	-1.11	0.01	2.25	0.80	-1.92	1.96	0.65	0.52	-0.16	3.05	2.68	**8.43**
5103	2,5,19,18,21,27,26,33,37,40,41,44,55	0.05	0.40	0.97	-2.06	-1.79	1.41	-1.11	-0.54	1.37	0.78	-1.37	1.96	1.25	0.52	-0.16	3.05	0.55	**5.28**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
5104	2,5,19,18,21,27,26,33,37,40,41,45,55	1.75	1.44	1.81	-1.04	-2.29	3.55	0.08	0.04	2.70	1.59	-0.66	1.96	2.13	0.52	-0.16	3.05	0.55	**17.02**
5105	2,5,19,18,21,27,26,33,37,40,43,47,46,48,51	0.79	1.18	1.45	-0.26	-3.01	2.70	0.08	-0.54	0.80	0.65	-0.24	3.87	1.59	0.52	-0.16	3.05	0.55	**13.02**
5106	2,5,19,18,21,27,26,33,37,40,43,47,46,48,52,53,54	0.46	1.44	1.09	-0.65	-2.47	1.84	-0.16	-0.36	0.92	0.65	-0.56	2.92	1.10	0.52	-0.16	3.05	0.55	**10.19**
5107	2,5,19,18,21,27,26,33,37,40,43,47,49,53,54	-0.46	1.70	0.23	-1.75	-1.62	1.84	-1.11	0.16	1.05	0.76	-1.66	2.92	0.73	0.52	-0.16	3.05	0.55	**6.73**
5108	2,5,19,18,21,27,26,33,37,40,43,50,54	-0.56	1.18	0.21	-1.87	-1.69	1.84	-0.87	-0.36	1.63	0.80	-1.90	1.96	0.69	0.52	-0.16	3.05	0.55	**5.01**
5109	2,5,19,18,21,27,26,33,37,42,46,48,51	0.66	0.40	1.41	-0.34	-3.06	1.84	0.08	-0.54	0.80	0.62	-0.28	3.87	1.51	0.52	-0.16	3.05	0.55	**10.95**
5110	2,5,19,18,21,27,26,33,37,42,46,48,52,53,54	0.33	0.66	1.06	-0.73	-2.52	0.98	-0.16	-0.36	0.92	0.62	-0.60	2.92	1.03	0.52	-0.16	3.05	0.55	**8.12**
5111	2,5,19,18,21,27,26,33,37,42,47,50,54	-0.55	0.92	0.21	-1.78	-1.64	1.84	-0.87	-0.36	1.63	0.85	-1.88	1.96	0.69	0.52	-0.16	3.05	0.55	**4.98**
5112	2,5,19,18,21,27,26,33,37,42,49,53,54	-0.60	0.66	0.19	-1.83	-1.67	0.98	-1.11	0.16	1.05	0.72	-1.70	2.92	0.66	0.52	-0.16	3.05	0.55	**4.40**
5113	2,5,19,18,21,28,31,30,32,46,47,50,54	1.86	2.22	1.83	-2.03	-1.50	3.55	1.28	-0.96	2.92	1.62	-0.77	1.96	2.71	1.25	-0.16	1.14	2.26	**19.19**
5114	2,5,19,18,21,28,31,30,32,46,49,53,54	1.82	1.96	1.81	-2.08	-1.52	2.70	1.04	-0.44	2.34	1.49	-0.61	2.92	2.67	1.25	-0.16	1.14	2.26	**18.58**
5115	2,5,19,18,21,28,31,30,32,48,51	1.32	1.18	2.56	-2.67	-3.48	3.55	1.75	-1.13	2.10	1.39	-1.12	1.96	3.18	1.25	-0.16	1.14	2.26	**15.07**
5116	2,5,19,18,21,28,31,30,32,48,52,53,54	0.99	1.44	2.20	-3.06	-2.94	2.70	1.52	-0.96	2.22	1.39	-1.44	1.01	2.70	1.25	-0.16	1.14	2.26	**12.25**
5117	2,5,19,18,21,28,31,33,37,40,41,44,55	-0.03	0.40	0.90	-2.03	-1.59	1.41	-1.11	-0.54	1.02	1.02	-1.63	1.96	1.16	0.52	-0.16	1.14	0.55	**3.00**
5118	2,5,19,18,21,28,31,33,37,40,41,45,55	1.67	1.44	1.74	-1.01	-2.08	3.55	0.08	0.04	2.34	1.83	-0.92	1.96	2.03	0.52	-0.16	1.14	0.55	**14.74**
5119	2,5,19,18,21,28,31,33,37,40,43,47,46,48,51	0.72	1.18	1.38	-0.24	-2.81	2.70	0.08	-0.54	0.44	0.90	-0.50	3.87	1.49	0.52	-0.16	1.14	0.55	**10.74**
5120	2,5,19,18,21,28,31,33,37,40,43,47,46,48,52,53,54	0.39	1.44	1.02	-0.62	-2.27	1.84	-0.16	-0.36	0.57	0.90	-0.82	2.92	1.01	0.52	-0.16	1.14	0.55	**7.91**
5121	2,5,19,18,21,28,31,33,37,40,43,47,49,53,54	-0.54	1.70	0.16	-1.72	-1.42	1.84	-1.11	0.16	0.69	1.00	-1.92	2.92	0.64	0.52	-0.16	1.14	0.55	**4.45**
5122	2,5,19,18,21,28,31,33,37,40,43,50,54	-0.64	1.18	0.14	-1.84	-1.48	1.84	-0.87	-0.36	1.27	1.05	-2.16	1.96	0.59	0.52	-0.16	1.14	0.55	**2.73**
5123	2,5,19,18,21,28,31,33,37,42,46,48,51	0.59	0.40	1.34	-0.32	-2.85	1.84	0.08	-0.54	0.44	0.86	-0.53	3.87	1.42	0.52	-0.16	1.14	0.55	**8.67**
5124	2,5,19,18,21,28,31,33,37,42,46,48,52,53,54	0.26	0.66	0.99	-0.70	-2.31	0.98	-0.16	-0.36	0.57	0.86	-0.85	2.92	0.93	0.52	-0.16	1.14	0.55	**5.84**
5125	2,5,19,18,21,28,31,33,37,42,47,50,54	-0.63	0.92	0.14	-1.75	-1.43	1.84	-0.87	-0.36	1.27	1.10	-2.14	1.96	0.60	0.52	-0.16	1.14	0.55	**2.70**
5126	2,5,19,18,21,28,31,33,37,42,49,53,54	-0.67	0.66	0.12	-1.80	-1.46	0.98	-1.11	0.16	0.69	0.97	-1.96	2.92	0.56	0.52	-0.16	1.14	0.55	**2.12**
5127	2,5,19,18,21,28,34,35,37,40,41,44,55	-0.06	0.40	0.91	-2.01	-1.23	1.41	-1.35	-0.54	1.32	0.98	-1.65	1.96	1.11	0.52	-0.16	1.14	0.55	**3.31**
5128	2,5,19,18,21,28,34,35,37,40,41,45,55	1.65	1.44	1.75	-0.99	-1.72	3.55	-0.16	0.04	2.64	1.79	-0.95	1.96	1.99	0.52	-0.16	1.14	0.55	**15.05**
5129	2,5,19,18,21,28,34,35,37,40,43,47,46,48,51	0.69	1.18	1.39	-0.22	-2.45	2.70	-0.16	-0.54	0.75	0.86	-0.52	3.87	1.45	0.52	-0.16	1.14	0.55	**11.05**
5130	2,5,19,18,21,28,34,35,37,40,43,47,46,48,52,53,54	0.36	1.44	1.03	-0.60	-1.91	1.84	-0.40	-0.36	0.87	0.86	-0.84	2.92	0.96	0.52	-0.16	1.14	0.55	**8.22**
5131	2,5,19,18,21,28,34,35,37,40,43,47,49,53,54	-0.56	1.70	0.16	-1.70	-1.06	1.84	-1.35	0.16	0.99	0.96	-1.95	2.92	0.59	0.52	-0.16	1.14	0.55	**4.76**
5132	2,5,19,18,21,28,34,35,37,40,43,50,54	-0.66	1.18	0.14	-1.82	-1.12	1.84	-1.11	-0.36	1.57	1.00	-2.19	1.96	0.55	0.52	-0.16	1.14	0.55	**3.04**
5133	2,5,19,18,21,28,34,35,37,42,46,48,51	0.56	0.40	1.35	-0.29	-2.49	1.84	-0.16	-0.54	0.75	0.82	-0.56	3.87	1.37	0.52	-0.16	1.14	0.55	**8.97**
5134	2,5,19,18,21,28,34,35,37,42,46,48,52,53,54	0.23	0.66	0.99	-0.68	-1.95	0.98	-0.40	-0.36	0.87	0.82	-0.88	2.92	0.89	0.52	-0.16	1.14	0.55	**6.15**
5135	2,5,19,18,21,28,34,35,37,42,47,50,54	-0.65	0.92	0.14	-1.73	-1.07	1.84	-1.11	-0.36	1.57	1.05	-2.17	1.96	0.55	0.52	-0.16	1.14	0.55	**3.01**
5136	2,5,19,18,21,28,34,35,37,42,49,53,54	-0.70	0.66	0.13	-1.78	-1.10	0.98	-1.35	0.16	0.99	0.93	-1.98	2.92	0.52	0.52	-0.16	1.14	0.55	**2.42**
5137	2,5,19,18,21,28,34,36,39,41,40,42,46,48,51	1.89	1.18	2.48	-0.04	-3.11	1.84	0.56	-0.39	0.72	2.80	-1.63	3.87	2.42	0.52	-0.16	1.14	0.55	**14.63**
5138	2,5,19,18,21,28,34,36,39,41,40,42,46,48,52,53,54	1.56	1.44	2.12	-0.43	-2.57	0.98	0.32	-0.22	0.84	2.80	-1.95	2.92	1.93	0.52	-0.16	1.14	0.55	**11.81**
5139	2,5,19,18,21,28,34,36,39,41,40,42,47,50,54	0.68	1.70	1.27	-1.47	-1.69	1.84	-0.40	-0.22	1.54	3.03	-3.23	1.96	1.60	0.52	-0.16	1.14	0.55	**8.67**
5140	2,5,19,18,21,28,34,36,39,41,40,42,49,53,54	0.64	1.44	1.25	-1.53	-1.72	0.98	-0.64	0.30	0.96	2.90	-3.05	2.92	1.56	0.52	-0.16	1.14	0.55	**8.08**
5141	2,5,19,18,21,28,34,36,39,41,43,47,46,48,51	1.89	1.44	2.48	0.04	-3.07	1.84	0.56	-0.39	0.72	2.83	-1.62	3.87	2.42	0.52	-0.16	1.14	0.55	**15.06**
5142	2,5,19,18,21,28,34,36,39,41,43,47,46,48,52,53,54	1.57	1.70	2.12	-0.35	-2.53	0.98	0.32	-0.22	0.84	2.83	-1.94	2.92	1.94	0.52	-0.16	1.14	0.55	**12.23**
5143	2,5,19,18,21,28,34,36,39,41,43,47,49,53,54	0.64	1.96	1.25	-1.45	-1.68	0.98	-0.64	0.30	0.96	2.93	-3.04	2.92	1.57	0.52	-0.16	1.14	0.55	**8.77**
5144	2,5,19,18,21,28,34,36,39,41,43,50,54	0.54	1.44	1.24	-1.56	-1.74	0.98	-0.40	-0.22	1.54	2.98	-3.29	1.96	1.52	0.52	-0.16	1.14	0.55	**7.05**
5145	2,5,19,18,21,28,34,36,39,44,55	-0.40	0.14	1.58	-1.76	-1.85	0.55	-1.59	-0.39	1.29	2.95	-3.44	1.96	1.46	0.52	-0.16	1.14	0.55	**2.57**
5146	2,5,19,18,21,28,34,36,39,45,55	1.31	1.18	2.43	-0.74	-2.34	2.70	-0.40	0.18	2.61	3.76	-2.73	1.96	2.33	0.52	-0.16	1.14	0.55	**14.31**
5147	2,5,19,18,21,28,34,38,40,42,46,48,51	0.60	0.40	1.35	-0.33	-1.77	2.27	-0.16	-0.17	1.07	0.83	-0.60	3.87	1.38	0.52	-0.16	1.14	2.68	**12.93**
5148	2,5,19,18,21,28,34,38,40,42,46,48,52,53,54	0.27	0.66	0.99	-0.71	-1.24	1.41	-0.40	0.01	1.19	0.83	-0.92	2.92	0.90	0.52	-0.16	1.14	2.68	**10.10**
5149	2,5,19,18,21,28,34,38,40,42,47,50,54	-0.61	0.92	0.14	-1.76	-0.36	2.27	-1.11	0.01	1.90	1.07	-2.21	1.96	0.56	0.52	-0.16	1.14	2.68	**6.96**
5150	2,5,19,18,21,28,34,38,40,42,49,53,54	-0.66	0.66	0.12	-1.81	-0.39	1.41	-1.35	0.53	1.32	0.94	-2.02	2.92	0.53	0.52	-0.16	1.14	2.68	**6.38**
5151	2,5,19,18,21,28,34,38,41,44,55	-0.15	-0.12	0.87	-2.04	-0.51	0.98	-1.35	-0.17	1.64	0.99	-1.73	1.96	1.05	0.52	-0.16	1.14	2.68	**5.61**
5152	2,5,19,18,21,28,34,38,41,45,55	1.55	0.92	1.71	-1.02	-1.00	3.12	-0.16	0.41	2.97	1.80	-1.03	1.96	1.93	0.52	-0.16	1.14	2.68	**17.35**
5153	2,5,19,18,21,28,34,38,43,47,46,48,51	0.60	0.14	1.35	-0.25	-1.73	2.27	-0.16	-0.17	1.07	0.87	-0.59	3.87	1.39	0.52	-0.16	1.14	2.68	**12.84**
5154	2,5,19,18,21,28,34,38,43,47,46,48,52,53,54	0.27	0.40	0.99	-0.63	-1.19	1.41	-0.40	0.01	1.19	0.87	-0.91	2.92	0.90	0.52	-0.16	1.14	2.68	**10.01**
5155	2,5,19,18,21,28,34,38,43,47,49,53,54	-0.66	0.66	0.13	-1.73	-0.34	1.41	-1.35	0.53	1.32	0.97	-2.02	2.92	0.53	0.52	-0.16	1.14	2.68	**6.55**
5156	2,5,19,18,21,28,34,38,43,50,54	-0.76	0.14	0.11	-1.85	-0.41	1.41	-1.11	0.01	1.90	1.01	-2.26	1.96	0.49	0.52	-0.16	1.14	2.68	**4.83**
5157	2,5,19,21,27,26,30,32,46,47,50,54	1.89	2.22	1.89	-2.06	-1.70	3.55	1.28	-0.96	3.28	1.38	-0.53	1.96	2.77	1.25	-0.16	3.05	2.26	**21.37**
5158	2,5,19,21,27,26,30,32,46,49,53,54	1.85	1.96	1.87	-2.11	-1.73	2.70	1.04	-0.44	2.70	1.25	-0.37	2.92	2.74	1.25	-0.16	3.05	2.26	**20.77**
5159	2,5,19,21,27,26,30,32,48,51	1.35	1.44	2.62	-2.70	-3.68	3.55	1.75	-1.13	2.45	1.15	-0.88	1.96	3.25	1.25	-0.16	3.05	2.26	**17.52**
5160	2,5,19,21,27,26,30,32,48,52,53,54	1.02	1.44	2.26	-3.09	-3.15	2.70	1.52	-0.96	2.57	1.15	-1.20	1.01	2.76	1.25	-0.16	3.05	2.26	**14.43**
5161	2,5,19,21,27,26,31,34,35,37,40,41,44,55	0.07	0.92	1.00	-2.04	-1.44	1.41	-1.35	-0.54	1.67	0.76	-1.33	1.96	1.24	0.52	-0.16	3.05	0.55	**6.30**
5162	2,5,19,21,27,26,31,34,35,37,40,41,45,55	1.77	1.96	1.84	-1.02	-1.93	3.55	-0.16	0.04	3.00	1.57	-0.63	1.96	2.12	0.52	-0.16	3.05	0.55	**18.04**
5163	2,5,19,21,27,26,31,34,35,37,40,43,47,46,48,51	0.81	1.96	1.47	-0.24	-2.65	2.70	-0.16	-0.54	1.10	0.64	-0.20	3.87	1.58	0.52	-0.16	3.05	0.55	**14.30**
5164	2,5,19,21,27,26,31,34,35,37,40,43,47,46,48,52,53,54	0.49	1.96	1.11	-0.63	-2.12	1.84	-0.40	-0.36	1.22	0.64	-0.52	2.92	1.09	0.52	-0.16	3.05	0.55	**11.21**
5165	2,5,19,21,27,26,31,34,35,37,40,43,47,49,53,54	-0.44	2.22	0.25	-1.73	-1.26	1.84	-1.35	0.16	1.35	0.74	-1.62	2.92	0.72	0.52	-0.16	3.05	0.55	**7.75**
5166	2,5,19,21,27,26,31,34,35,37,40,43,50,54	-0.54	1.70	0.23	-1.85	-1.33	1.84	-1.11	-0.36	1.93	0.78	-1.87	1.96	0.68	0.52	-0.16	3.05	0.55	**6.03**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
5167	2,5,19,21,27,26,31,34,35,37,42,46,48,51	0.68	1.18	1.43	-0.32	-2.70	1.84	-0.16	-0.54	1.10	0.60	-0.24	3.87	1.50	0.52	-0.16	3.05	0.55	**12.23**
5168	2,5,19,21,27,26,31,34,35,37,42,46,48,52,53,54	0.36	1.18	1.08	-0.71	-2.16	0.98	-0.40	-0.36	1.22	0.60	-0.56	2.92	1.02	0.52	-0.16	3.05	0.55	**9.14**
5169	2,5,19,21,27,26,31,34,35,37,42,47,50,54	-0.53	1.44	0.23	-1.76	-1.28	1.84	-1.11	-0.36	1.93	0.83	-1.84	1.96	0.68	0.52	-0.16	3.05	0.55	**6.00**
5170	2,5,19,21,27,26,31,34,35,37,42,49,53,54	-0.57	1.18	0.21	-1.81	-1.31	0.98	-1.35	0.16	1.35	0.71	-1.66	2.92	0.65	0.52	-0.16	3.05	0.55	**5.42**
5171	2,5,19,21,27,26,31,34,36,39,41,40,42,46,48,51	2.02	1.96	2.56	-0.07	-3.32	1.84	0.56	-0.39	1.07	2.58	-1.31	3.87	2.55	0.52	-0.16	3.05	0.55	**17.88**
5172	2,5,19,21,27,26,31,34,36,39,41,40,42,46,48,52,53,54	1.69	1.96	2.20	-0.45	-2.78	0.98	0.32	-0.22	1.19	2.58	-1.62	2.92	2.06	0.52	-0.16	3.05	0.55	**14.80**
5173	2,5,19,21,27,26,31,34,36,39,41,40,42,47,50,54	0.81	2.22	1.36	-1.50	-1.90	1.84	-0.40	-0.22	1.90	2.81	-2.91	1.96	1.73	0.52	-0.16	3.05	0.55	**11.66**
5174	2,5,19,21,27,26,31,34,36,39,41,40,42,49,53,54	0.76	1.96	1.34	-1.55	-1.93	0.98	-0.64	0.30	1.32	2.68	-2.73	2.92	1.69	0.52	-0.16	3.05	0.55	**11.07**
5175	2,5,19,21,27,26,31,34,36,39,41,43,47,46,48,51	2.02	2.22	2.56	0.01	-3.27	1.84	0.56	-0.39	1.07	2.61	-1.30	3.87	2.55	0.52	-0.16	3.05	0.55	**18.31**
5176	2,5,19,21,27,26,31,34,36,39,41,43,47,46,48,52,53,54	1.69	2.22	2.21	-0.37	-2.73	0.98	0.32	-0.22	1.19	2.61	-1.62	2.92	2.07	0.52	-0.16	3.05	0.55	**15.23**
5177	2,5,19,21,27,26,31,34,36,39,41,43,47,49,53,54	0.76	2.48	1.34	-1.47	-1.88	0.98	-0.64	0.30	1.32	2.71	-2.72	2.92	1.69	0.52	-0.16	3.05	0.55	**11.76**
5178	2,5,19,21,27,26,31,34,36,39,41,43,50,54	0.66	1.96	1.32	-1.59	-1.95	0.98	-0.40	-0.22	1.90	2.76	-2.96	1.96	1.65	0.52	-0.16	3.05	0.55	**10.04**
5179	2,5,19,21,27,26,31,34,36,39,44,55	-0.27	0.66	1.67	-1.78	-2.05	0.55	-1.59	-0.39	1.64	2.73	-3.12	1.96	1.59	0.52	-0.16	3.05	0.55	**5.57**
5180	2,5,19,21,27,26,31,34,36,39,45,55	1.43	1.70	2.51	-0.76	-2.55	2.70	-0.40	0.18	2.97	3.54	-2.41	1.96	2.46	0.52	-0.16	3.05	0.55	**17.30**
5181	2,5,19,21,27,26,31,34,38,40,42,46,48,51	0.72	1.18	1.43	-0.35	-1.98	2.27	-0.16	-0.17	1.42	0.61	-0.28	3.87	1.51	0.52	-0.16	3.05	2.68	**16.18**
5182	2,5,19,21,27,26,31,34,38,40,42,46,48,52,53,54	0.40	1.18	1.08	-0.74	-1.44	1.41	-0.40	0.01	1.55	0.61	-0.60	2.92	1.03	0.52	-0.16	3.05	2.68	**13.10**
5183	2,5,19,21,27,26,31,34,38,40,42,47,50,54	-0.49	1.44	0.23	-1.79	-0.56	2.27	-1.11	0.01	2.25	0.85	-1.88	1.96	0.69	0.52	-0.16	3.05	2.68	**9.96**
5184	2,5,19,21,27,26,31,34,38,40,42,49,53,54	-0.53	1.18	0.21	-1.84	-0.59	1.41	-1.35	0.53	1.67	0.72	-1.70	2.92	0.66	0.52	-0.16	3.05	2.68	**9.37**
5185	2,5,19,21,27,26,31,34,38,41,44,55	-0.02	0.40	0.96	-2.07	-0.72	0.98	-1.35	-0.17	2.00	0.77	-1.41	1.96	1.18	0.52	-0.16	3.05	2.68	**8.61**
5186	2,5,19,21,27,26,31,34,38,41,45,55	1.68	1.44	1.80	-1.05	-1.21	3.12	-0.16	0.41	3.32	1.58	-0.70	1.96	2.06	0.52	-0.16	3.05	2.68	**20.34**
5187	2,5,19,21,27,26,31,34,38,43,47,46,48,51	0.72	0.92	1.43	-0.27	-1.94	2.27	-0.16	-0.17	1.42	0.65	-0.27	3.87	1.52	0.52	-0.16	3.05	2.68	**16.09**
5188	2,5,19,21,27,26,31,34,38,43,47,46,48,52,53,54	0.40	0.92	1.08	-0.66	-1.40	1.41	-0.40	0.01	1.55	0.65	-0.59	2.92	1.03	0.52	-0.16	3.05	2.68	**13.00**
5189	2,5,19,21,27,26,31,34,38,43,47,49,53,54	-0.53	1.18	0.21	-1.76	-0.55	1.41	-1.35	0.53	1.67	0.75	-1.70	2.92	0.66	0.52	-0.16	3.05	2.68	**9.54**
5190	2,5,19,21,27,26,31,34,38,43,50,54	-0.63	0.66	0.19	-1.88	-0.61	1.41	-1.11	0.01	2.25	0.80	-1.94	1.96	0.62	0.52	-0.16	3.05	2.68	**7.82**
5191	2,5,19,21,27,26,33,37,40,41,44,55	0.00	-0.12	0.96	-2.06	-1.79	1.41	-1.11	-0.54	1.37	0.78	-1.39	1.96	1.22	0.52	-0.16	3.05	0.55	**4.67**
5192	2,5,19,21,27,26,33,37,40,41,45,55	1.71	0.92	1.80	-1.04	-2.29	3.55	0.08	0.04	2.70	1.59	-0.68	1.96	2.10	0.52	-0.16	3.05	0.55	**16.41**
5193	2,5,19,21,27,26,33,37,40,43,47,46,48,51	0.75	0.92	1.44	-0.26	-3.01	2.70	0.08	-0.54	0.80	0.65	-0.25	3.87	1.56	0.52	-0.16	3.05	0.55	**12.67**
5194	2,5,19,21,27,26,33,37,40,43,47,46,48,52,53,54	0.42	0.92	1.08	-0.65	-2.47	1.84	-0.16	-0.36	0.92	0.65	-0.57	2.92	1.07	0.52	-0.16	3.05	0.55	**9.58**
5195	2,5,19,21,27,26,33,37,40,43,47,49,53,54	-0.50	1.18	0.22	-1.75	-1.62	1.84	-1.11	0.16	1.05	0.76	-1.68	2.92	0.70	0.52	-0.16	3.05	0.55	**6.11**
5196	2,5,19,21,27,26,33,37,40,43,50,54	-0.60	0.66	0.20	-1.87	-1.69	1.84	-0.87	-0.36	1.63	0.80	-1.92	1.96	0.66	0.52	-0.16	3.05	0.55	**4.40**
5197	2,5,19,21,27,26,33,37,42,46,48,51	0.62	0.14	1.40	-0.34	-3.06	1.84	0.08	-0.54	0.80	0.62	-0.29	3.87	1.48	0.52	-0.16	3.05	0.55	**10.59**
5198	2,5,19,21,27,26,33,37,42,46,48,52,53,54	0.29	0.14	1.05	-0.73	-2.52	0.98	-0.16	-0.36	0.92	0.62	-0.61	2.92	1.00	0.52	-0.16	3.05	0.55	**7.51**
5199	2,5,19,21,27,26,33,37,42,47,50,54	-0.59	0.40	0.20	-1.78	-1.64	1.84	-0.87	-0.36	1.63	0.85	-1.90	1.96	0.66	0.52	-0.16	3.05	0.55	**4.37**
5200	2,5,19,21,27,26,33,37,42,49,53,54	-0.64	0.14	0.18	-1.83	-1.67	0.98	-1.11	0.16	1.05	0.72	-1.71	2.92	0.63	0.52	-0.16	3.05	0.55	**3.78**
5201	2,5,19,21,28,31,30,32,46,47,50,54	1.82	1.70	1.82	-2.03	-1.50	3.55	1.28	-0.96	2.92	1.62	-0.79	1.96	2.68	1.25	-0.16	1.14	2.26	**18.57**
5202	2,5,19,21,28,31,30,32,46,49,53,54	1.78	1.44	1.80	-2.08	-1.52	2.70	1.04	-0.44	2.34	1.49	-0.62	2.92	2.65	1.25	-0.16	1.14	2.26	**17.97**
5203	2,5,19,21,28,31,30,32,48,51	1.28	0.92	2.55	-2.67	-3.48	3.55	1.75	-1.13	2.10	1.39	-1.13	1.96	3.15	1.25	-0.16	1.14	2.26	**14.72**
5204	2,5,19,21,28,31,30,32,48,52,53,54	0.95	0.92	2.19	-3.06	-2.94	2.70	1.52	-0.96	2.22	1.39	-1.45	1.01	2.67	1.25	-0.16	1.14	2.26	**11.63**
5205	2,5,19,21,28,31,33,37,40,41,44,55	-0.07	-0.12	0.89	-2.03	-1.59	1.41	-1.11	-0.54	1.02	1.02	-1.64	1.96	1.13	0.52	-0.16	1.14	0.55	**2.39**
5206	2,5,19,21,28,31,33,37,40,41,45,55	1.63	0.92	1.73	-1.01	-2.08	3.55	0.08	0.04	2.34	1.83	-0.94	1.96	2.00	0.52	-0.16	1.14	0.55	**14.12**
5207	2,5,19,21,28,31,33,37,40,43,47,46,48,51	0.68	0.92	1.37	-0.24	-2.81	2.70	0.08	-0.54	0.44	0.90	-0.51	3.87	1.46	0.52	-0.16	1.14	0.55	**10.38**
5208	2,5,19,21,28,31,33,37,40,43,47,46,48,52,53,54	0.35	0.92	1.01	-0.62	-2.27	1.84	-0.16	-0.36	0.57	0.90	-0.83	2.92	0.98	0.52	-0.16	1.14	0.55	**7.30**
5209	2,5,19,21,28,31,33,37,40,43,47,49,53,54	-0.58	1.18	0.15	-1.72	-1.42	1.84	-1.11	0.16	0.69	1.00	-1.93	2.92	0.61	0.52	-0.16	1.14	0.55	**3.83**
5210	2,5,19,21,28,31,33,37,40,43,50,54	-0.68	0.66	0.13	-1.84	-1.48	1.84	-0.87	-0.36	1.27	1.05	-2.18	1.96	0.56	0.52	-0.16	1.14	0.55	**2.11**
5211	2,5,19,21,28,31,33,37,42,46,48,51	0.54	0.14	1.33	-0.32	-2.85	1.84	0.08	-0.54	0.44	0.86	-0.55	3.87	1.39	0.52	-0.16	1.14	0.55	**8.31**
5212	2,5,19,21,28,31,33,37,42,46,48,52,53,54	0.22	0.14	0.98	-0.70	-2.31	0.98	-0.16	-0.36	0.57	0.86	-0.87	2.92	0.91	0.52	-0.16	1.14	0.55	**5.23**
5213	2,5,19,21,28,31,33,37,42,47,50,54	-0.67	0.40	0.13	-1.75	-1.43	1.84	-0.87	-0.36	1.27	1.10	-2.15	1.96	0.57	0.52	-0.16	1.14	0.55	**2.09**
5214	2,5,19,21,28,31,33,37,42,49,53,54	-0.71	0.14	0.11	-1.80	-1.46	0.98	-1.11	0.16	0.69	0.97	-1.97	2.92	0.53	0.52	-0.16	1.14	0.55	**1.50**
5215	2,5,19,21,28,34,35,37,40,41,44,55	-0.10	-0.12	0.90	-2.01	-1.23	1.41	-1.35	-0.54	1.32	0.98	-1.67	1.96	1.08	0.52	-0.16	1.14	0.55	**2.70**
5216	2,5,19,21,28,34,35,37,40,41,45,55	1.60	0.92	1.74	-0.99	-1.72	3.55	-0.16	0.04	2.64	1.79	-0.96	1.96	1.96	0.52	-0.16	1.14	0.55	**14.43**
5217	2,5,19,21,28,34,35,37,40,43,47,46,48,51	0.65	0.92	1.37	-0.22	-2.45	2.70	-0.16	-0.54	0.75	0.86	-0.54	3.87	1.42	0.52	-0.16	1.14	0.55	**10.69**
5218	2,5,19,21,28,34,35,37,40,43,47,46,48,52,53,54	0.32	0.92	1.02	-0.60	-1.91	1.84	-0.40	-0.36	0.87	0.86	-0.86	2.92	0.94	0.52	-0.16	1.14	0.55	**7.61**
5219	2,5,19,21,28,34,35,37,40,43,47,49,53,54	-0.61	1.18	0.15	-1.70	-1.06	1.84	-1.35	0.16	0.99	0.96	-1.96	2.92	0.56	0.52	-0.16	1.14	0.55	**4.14**
5220	2,5,19,21,28,34,35,37,40,43,50,54	-0.71	0.66	0.13	-1.82	-1.12	1.84	-1.11	-0.36	1.57	1.00	-2.20	1.96	0.52	0.52	-0.16	1.14	0.55	**2.42**
5221	2,5,19,21,28,34,35,37,42,46,48,51	0.52	0.14	1.34	-0.29	-2.49	1.84	-0.16	-0.54	0.75	0.82	-0.57	3.87	1.35	0.52	-0.16	1.14	0.55	**8.62**
5222	2,5,19,21,28,34,35,37,42,46,48,52,53,54	0.19	0.14	0.98	-0.68	-1.95	0.98	-0.40	-0.36	0.87	0.82	-0.89	2.92	0.86	0.52	-0.16	1.14	0.55	**5.53**
5223	2,5,19,21,28,34,35,37,42,47,50,54	-0.69	0.40	0.13	-1.73	-1.07	1.84	-1.11	-0.36	1.57	1.05	-2.18	1.96	0.53	0.52	-0.16	1.14	0.55	**2.39**
5224	2,5,19,21,28,34,35,37,42,49,53,54	-0.74	0.14	0.11	-1.78	-1.10	0.98	-1.35	0.16	0.99	0.93	-2.00	2.92	0.49	0.52	-0.16	1.14	0.55	**1.81**
5225	2,5,19,21,28,34,36,39,41,40,42,46,48,51	1.85	0.92	2.47	-0.04	-3.11	1.84	0.56	-0.39	0.72	2.80	-1.64	3.87	2.39	0.52	-0.16	1.14	0.55	**14.28**
5226	2,5,19,21,28,34,36,39,41,40,42,46,48,52,53,54	1.52	0.92	2.11	-0.43	-2.57	0.98	0.32	-0.22	0.84	2.80	-1.96	2.92	1.90	0.52	-0.16	1.14	0.55	**11.19**
5227	2,5,19,21,28,34,36,39,41,40,42,47,50,54	0.64	1.18	1.26	-1.47	-1.69	1.84	-0.40	-0.22	1.54	3.03	-3.25	1.96	1.57	0.52	-0.16	1.14	0.55	**8.05**
5228	2,5,19,21,28,34,36,39,41,40,42,49,53,54	0.59	0.92	1.24	-1.53	-1.72	0.98	-0.64	0.30	0.96	2.90	-3.06	2.92	1.53	0.52	-0.16	1.14	0.55	**7.47**
5229	2,5,19,21,28,34,36,39,41,43,47,46,48,51	1.85	1.18	2.47	0.04	-3.07	1.84	0.56	-0.39	0.72	2.83	-1.64	3.87	2.39	0.52	-0.16	1.14	0.55	**14.71**

Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygon	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
5230	2,5,19,21,28,34,36,39,41,43,47,46,48,52,53,54	1.52	1.18	2.11	-0.35	-2.53	0.98	0.32	-0.22	0.84	2.83	-1.95	2.92	1.91	0.52	-0.16	1.14	0.55	**11.62**
5231	2,5,19,21,28,34,36,39,41,43,47,49,53,54	0.60	1.44	1.24	-1.45	-1.68	0.98	-0.64	0.30	0.96	2.93	-3.06	2.92	1.54	0.52	-0.16	1.14	0.55	**8.15**
5232	2,5,19,21,28,34,36,39,41,43,50,54	0.50	0.92	1.22	-1.56	-1.74	0.98	-0.40	-0.22	1.54	2.98	-3.30	1.96	1.49	0.52	-0.16	1.14	0.55	**6.44**
5233	2,5,19,21,28,34,36,39,44,55	-0.44	-0.38	1.57	-1.76	-1.85	0.55	-1.59	-0.39	1.29	2.95	-3.45	1.96	1.43	0.52	-0.16	1.14	0.55	**1.96**
5234	2,5,19,21,28,34,36,39,45,55	1.26	0.66	2.41	-0.74	-2.34	2.70	-0.40	0.18	2.61	3.76	-2.75	1.96	2.31	0.52	-0.16	1.14	0.55	**13.70**
5235	2,5,19,21,28,34,38,40,42,46,48,51	0.56	0.14	1.34	-0.33	-1.77	2.27	-0.16	-0.17	1.07	0.83	-0.61	3.87	1.35	0.52	-0.16	1.14	2.68	**12.57**
5236	2,5,19,21,28,34,38,40,42,46,48,52,53,54	0.23	0.14	0.98	-0.71	-1.24	1.41	-0.40	0.01	1.19	0.83	-0.93	2.92	0.87	0.52	-0.16	1.14	2.68	**9.49**
5237	2,5,19,21,28,34,38,40,42,47,50,54	-0.66	0.40	0.13	-1.76	-0.36	2.27	-1.11	0.01	1.90	1.07	-2.22	1.96	0.53	0.52	-0.16	1.14	2.68	**6.35**
5238	2,5,19,21,28,34,38,40,42,49,53,54	-0.70	0.14	0.11	-1.81	-0.39	1.41	-1.35	0.53	1.32	0.94	-2.04	2.92	0.50	0.52	-0.16	1.14	2.68	**5.76**
5239	2,5,19,21,28,34,38,41,44,55	-0.19	-0.64	0.86	-2.04	-0.51	0.98	-1.35	-0.17	1.64	0.99	-1.75	1.96	1.02	0.52	-0.16	1.14	2.68	**5.00**
5240	2,5,19,21,28,34,38,41,45,55	1.51	0.40	1.70	-1.02	-1.00	3.12	-0.16	0.41	2.97	1.80	-1.04	1.96	1.90	0.52	-0.16	1.14	2.68	**16.74**
5241	2,5,19,21,28,34,38,43,47,46,48,51	0.56	-0.12	1.34	-0.25	-1.73	2.27	-0.16	-0.17	1.07	0.87	-0.61	3.87	1.36	0.52	-0.16	1.14	2.68	**12.48**
5242	2,5,19,21,28,34,38,43,47,46,48,52,53,54	0.23	-0.12	0.98	-0.63	-1.19	1.41	-0.40	0.01	1.19	0.87	-0.93	2.92	0.87	0.52	-0.16	1.14	2.68	**9.40**
5243	2,5,19,21,28,34,38,43,47,49,53,54	-0.70	0.14	0.11	-1.73	-0.34	1.41	-1.35	0.53	1.32	0.97	-2.03	2.92	0.50	0.52	-0.16	1.14	2.68	**5.93**
5244	2,5,19,21,28,34,38,43,50,54	-0.80	-0.38	0.10	-1.85	-0.41	1.41	-1.11	0.01	1.90	1.01	-2.27	1.96	0.46	0.52	-0.16	1.14	2.68	**4.21**
5245	2,5,22,24,29,36,35,37,40,41,44,55	0.54	0.14	1.85	-2.28	-2.36	0.55	-1.59	-0.90	1.64	1.42	-1.71	1.96	2.08	2.10	-0.16	1.14	0.55	**4.99**
5246	2,5,22,24,29,36,35,37,40,41,45,55	2.24	1.18	2.69	-1.26	-2.85	2.70	-0.40	-0.32	2.96	2.24	-1.00	1.96	2.96	2.10	-0.16	1.14	0.55	**16.72**
5247	2,5,22,24,29,36,35,37,40,43,47,46,48,51	1.28	1.18	2.32	-0.48	-3.58	1.84	-0.40	-0.90	1.06	1.30	-0.58	3.87	2.42	2.10	-0.16	1.14	0.55	**12.98**
5248	2,5,22,24,29,36,35,37,40,43,47,46,48,52,53,54	0.96	1.18	1.97	-0.87	-3.04	0.98	-0.64	-0.72	1.19	1.30	-0.90	2.92	1.93	2.10	-0.16	1.14	0.55	**9.90**
5249	2,5,22,24,29,36,35,37,40,43,47,49,53,54	0.03	1.44	1.10	-1.97	-2.19	0.98	-1.59	-0.20	1.31	1.41	-2.00	2.92	1.56	2.10	-0.16	1.14	0.55	**6.43**
5250	2,5,22,24,29,36,35,37,40,43,50,54	-0.07	0.92	1.08	-2.09	-2.25	0.98	-1.35	-0.72	1.89	1.45	-2.24	1.96	1.52	2.10	-0.16	1.14	0.55	**4.71**
5251	2,5,22,24,29,36,35,37,42,46,48,51	1.15	0.40	2.29	-0.56	-3.62	0.98	-0.40	-0.90	1.06	1.27	-0.62	3.87	2.35	2.10	-0.16	1.14	0.55	**10.91**
5252	2,5,22,24,29,36,35,37,42,46,48,52,53,54	0.82	0.40	1.93	-0.95	-3.09	0.13	-0.64	-0.72	1.19	1.27	-0.93	2.92	1.86	2.10	-0.16	1.14	0.55	**7.83**
5253	2,5,22,24,29,36,35,37,42,47,50,54	-0.06	0.66	1.08	-2.00	-2.21	0.98	-1.35	-0.72	1.89	1.50	-2.22	1.96	1.52	2.10	-0.16	1.14	0.55	**4.69**
5254	2,5,22,24,29,36,35,37,42,49,53,54	-0.10	0.40	1.06	-2.05	-2.23	0.13	-1.59	-0.20	1.31	1.37	-2.04	2.92	1.49	2.10	-0.16	1.14	0.55	**4.10**
5255	2,5,22,24,29,36,38,40,42,46,48,51	1.19	0.66	2.29	-0.59	-2.91	1.41	-0.40	-0.53	1.39	1.28	-0.66	3.87	2.35	2.10	-0.16	1.14	2.68	**15.12**
5256	2,5,22,24,29,36,38,40,42,46,48,52,53,54	0.86	0.66	1.93	-0.98	-2.37	0.55	-0.64	-0.35	1.51	1.28	-0.98	2.92	1.87	2.10	-0.16	1.14	2.68	**12.04**
5257	2,5,22,24,29,36,38,40,42,47,50,54	-0.02	0.92	1.08	-2.03	-1.49	1.41	-1.35	-0.35	2.22	1.51	-2.26	1.96	1.53	2.10	-0.16	1.14	2.68	**8.90**
5258	2,5,22,24,29,36,38,40,42,49,53,54	-0.06	0.66	1.06	-2.08	-1.52	0.55	-1.59	0.17	1.63	1.38	-2.08	2.92	1.50	2.10	-0.16	1.14	2.68	**8.31**
5259	2,5,22,24,29,36,38,41,44,55	0.45	-0.12	1.81	-2.31	-1.64	0.13	-1.59	-0.53	1.96	1.44	-1.79	1.96	2.02	2.10	-0.16	1.14	2.68	**7.55**
5260	2,5,22,24,29,36,38,41,45,55	2.15	0.92	2.65	-1.29	-2.14	2.27	-0.40	0.05	3.28	2.25	-1.08	1.96	2.90	2.10	-0.16	1.14	2.68	**19.29**
5261	2,5,22,24,29,36,38,43,47,46,48,51	1.19	0.40	2.29	-0.52	-2.86	1.41	-0.40	-0.53	1.39	1.31	-0.65	3.87	2.36	2.10	-0.16	1.14	2.68	**15.03**
5262	2,5,22,24,29,36,38,43,47,46,48,52,53,54	0.87	0.40	1.93	-0.90	-2.32	0.55	-0.64	-0.35	1.51	1.31	-0.97	2.92	1.87	2.10	-0.16	1.14	2.68	**11.95**
5263	2,5,22,24,29,36,38,43,47,49,53,54	-0.06	0.66	1.06	-2.00	-1.47	0.55	-1.59	0.17	1.63	1.42	-2.07	2.92	1.50	2.10	-0.16	1.14	2.68	**8.48**
5264	2,5,22,24,29,36,38,43,50,54	-0.16	0.14	1.04	-2.12	-1.54	0.55	-1.35	-0.35	2.22	1.46	-2.32	1.96	1.46	2.10	-0.16	1.14	2.68	**6.76**
5265	2,5,22,24,29,39,41,40,42,46,48,51	1.39	0.40	3.12	-0.94	-4.24	0.13	0.32	-0.75	1.03	2.60	-1.92	3.87	2.83	2.10	-0.16	1.14	0.55	**11.48**
5266	2,5,22,24,29,39,41,40,42,46,48,52,53,54	1.06	0.40	2.76	-1.32	-3.70	-0.73	0.08	-0.57	1.16	2.60	-2.24	2.92	2.35	2.10	-0.16	1.14	0.55	**8.39**
5267	2,5,22,24,29,39,41,40,42,47,50,54	0.18	0.66	1.91	-2.37	-2.82	0.13	-0.64	-0.57	1.86	2.83	-3.53	1.96	2.01	2.10	-0.16	1.14	0.55	**5.25**
5268	2,5,22,24,29,39,41,40,42,49,53,54	0.14	0.40	1.89	-2.42	-2.85	-0.73	-0.87	-0.05	1.28	2.71	-3.35	2.92	1.98	2.10	-0.16	1.14	0.55	**4.66**
5269	2,5,22,24,29,39,41,43,47,46,48,51	1.39	0.66	3.12	-0.86	-4.20	0.13	0.32	-0.75	1.03	2.63	-1.92	3.87	2.84	2.10	-0.16	1.14	0.55	**11.90**
5270	2,5,22,24,29,39,41,43,47,46,48,52,53,54	1.07	0.66	2.76	-1.24	-3.66	-0.73	0.08	-0.57	1.16	2.63	-2.24	2.92	2.35	2.10	-0.16	1.14	0.55	**8.82**
5271	2,5,22,24,29,39,41,43,47,49,53,54	0.14	0.92	1.90	-2.34	-2.81	-0.73	-0.87	-0.05	1.28	2.74	-3.34	2.92	1.98	2.10	-0.16	1.14	0.55	**5.35**
5272	2,5,22,24,29,39,41,43,50,54	0.04	0.40	1.88	-2.46	-2.87	-0.73	-0.64	-0.57	1.86	2.78	-3.58	1.96	1.94	2.10	-0.16	1.14	0.55	**3.63**
5273	2,5,22,24,29,39,44,55	-0.90	-0.90	2.23	-2.65	-2.98	-1.16	-1.83	-0.75	1.61	2.76	-3.74	1.96	1.87	2.10	-0.16	1.14	0.55	**-0.84**
5274	2,5,22,24,29,39,45,55	0.81	0.14	3.07	-1.64	-3.47	0.98	-0.64	-0.18	2.93	3.57	-3.03	1.96	2.75	2.10	-0.16	1.14	0.55	**10.89**
5275	2,5,22,25,29,36,35,37,40,41,44,55	0.32	-0.12	1.79	-2.71	-2.03	0.55	-1.35	-0.87	1.20	1.49	-2.08	1.96	2.02	2.14	-0.16	1.14	0.55	**3.86**
5276	2,5,22,25,29,36,35,37,40,41,45,55	2.02	0.92	2.63	-1.70	-2.52	2.70	-0.16	-0.30	2.52	2.30	-1.37	1.96	2.90	2.14	-0.16	1.14	0.55	**15.59**
5277	2,5,22,25,29,36,35,37,40,43,47,46,48,51	1.07	0.92	2.27	-0.92	-3.25	1.84	-0.16	-0.87	0.63	1.37	-0.94	3.87	2.36	2.14	-0.16	1.14	0.55	**11.85**
5278	2,5,22,25,29,36,35,37,40,43,47,46,48,52,53,54	0.74	0.92	1.91	-1.30	-2.71	0.98	-0.40	-0.70	0.75	1.37	-1.26	2.92	1.88	2.14	-0.16	1.14	0.55	**8.77**
5279	2,5,22,25,29,36,35,37,40,43,47,49,53,54	-0.19	1.18	1.04	-2.40	-1.86	0.98	-1.35	-0.17	0.87	1.48	-2.37	2.92	1.50	2.14	-0.16	1.14	0.55	**5.30**
5280	2,5,22,25,29,36,35,37,40,43,50,54	-0.29	0.66	1.02	-2.52	-1.92	0.98	-1.11	-0.70	1.45	1.52	-2.61	1.96	1.46	2.14	-0.16	1.14	0.55	**3.58**
5281	2,5,22,25,29,36,35,37,42,46,48,51	0.94	0.14	2.23	-1.00	-3.29	0.98	-0.16	-0.87	0.63	1.34	-0.98	3.87	2.29	2.14	-0.16	1.14	0.55	**9.78**
5282	2,5,22,25,29,36,35,37,42,46,48,52,53,54	0.61	0.14	1.87	-1.38	-2.75	0.13	-0.40	-0.70	0.75	1.34	-1.30	2.92	1.80	2.14	-0.16	1.14	0.55	**6.69**
5283	2,5,22,25,29,36,35,37,42,47,50,54	-0.28	0.40	1.02	-2.43	-1.87	0.98	-1.11	-0.70	1.45	1.57	-2.59	1.96	1.47	2.14	-0.16	1.14	0.55	**3.56**
5284	2,5,22,25,29,36,35,37,42,49,53,54	-0.32	0.14	1.01	-2.48	-1.90	0.13	-1.35	-0.17	0.87	1.44	-2.40	2.92	1.43	2.14	-0.16	1.14	0.55	**2.97**
5285	2,5,22,25,29,36,38,40,42,46,48,51	0.97	0.40	2.23	-1.03	-2.57	1.41	-0.16	-0.50	0.95	1.35	-1.02	3.87	2.29	2.14	-0.16	1.14	2.68	**13.99**
5286	2,5,22,25,29,36,38,40,42,46,48,52,53,54	0.65	0.40	1.87	-1.41	-2.04	0.55	-0.40	-0.33	1.07	1.35	-1.34	2.92	1.81	2.14	-0.16	1.14	2.68	**10.91**
5287	2,5,22,25,29,36,38,40,42,47,50,54	-0.24	0.66	1.02	-2.46	-1.16	1.41	-1.11	-0.33	1.78	1.58	-2.63	1.96	1.47	2.14	-0.16	1.14	2.68	**7.77**
5288	2,5,22,25,29,36,38,40,42,49,53,54	-0.28	0.40	1.00	-2.51	-1.18	0.55	-1.35	0.19	1.20	1.45	-2.44	2.92	1.44	2.14	-0.16	1.14	2.68	**7.18**
5289	2,5,22,25,29,36,38,41,44,55	0.23	-0.38	1.75	-2.74	-1.31	0.13	-1.35	-0.50	1.52	1.51	-2.15	1.96	1.96	2.14	-0.16	1.14	2.68	**6.42**
5290	2,5,22,25,29,36,38,41,45,55	1.93	0.66	2.59	-1.73	-1.80	2.27	-0.16	0.07	2.85	2.32	-1.45	1.96	2.84	2.14	-0.16	1.14	2.68	**18.16**
5291	2,5,22,25,29,36,38,43,47,46,48,51	0.98	0.14	2.23	-0.95	-2.53	1.41	-0.16	-0.50	0.95	1.38	-1.02	3.87	2.30	2.14	-0.16	1.14	2.68	**13.90**
5292	2,5,22,25,29,36,38,43,47,46,48,52,53,54	0.65	0.14	1.87	-1.33	-1.99	0.55	-0.40	-0.33	1.07	1.38	-1.34	2.92	1.81	2.14	-0.16	1.14	2.68	**10.82**

Westar Energy- JEC to East Manhattan
345/230 kV Transmission Line Project
Table F-2: Raw Scores for All Routes

Route	**Segments**	**Total length**	**Heavy angles > 30 degrees**	**Length not along Transmission Line**	**Length not along Roads**	**Length not along Property Lines**	**Roads crossed**	**Streams and rivers crossed**	**Wetland acres in ROW**	**Woodland acres in ROW**	**Cropland acres in ROW**	**Open/Pasture land in ROW**	**Rare species/ Species of concern polygon**	**Visibility rating**	**Residential proximity score**	**Businesses within 300ft**	**Public facilities within 300ft**	**Cultural sites within 1320ft**	**Sum**
5293	2,5,22,25,29,36,38,43,47,49,53,54	-0.28	0.40	1.01	-2.43	-1.14	0.55	-1.35	0.19	1.20	1.49	-2.44	2.92	1.44	2.14	-0.16	1.14	2.68	**7.35**
5294	2,5,22,25,29,36,38,43,50,54	-0.38	-0.12	0.99	-2.55	-1.20	0.55	-1.11	-0.33	1.78	1.53	-2.68	1.96	1.40	2.14	-0.16	1.14	2.68	**5.63**
5295	2,5,22,25,29,39,41,40,42,46,48,51	1.18	0.14	3.06	-1.37	-3.91	0.13	0.56	-0.73	0.60	2.67	-2.29	3.87	2.77	2.14	-0.16	1.14	0.55	**10.34**
5296	2,5,22,25,29,39,41,40,42,46,48,52,53,54	0.85	0.14	2.70	-1.76	-3.37	-0.73	0.32	-0.55	0.72	2.67	-2.61	2.92	2.29	2.14	-0.16	1.14	0.55	**7.26**
5297	2,5,22,25,29,39,41,40,42,47,50,54	-0.03	0.40	1.86	-2.81	-2.49	0.13	-0.40	-0.55	1.42	2.90	-3.90	1.96	1.95	2.14	-0.16	1.14	0.55	**4.12**
5298	2,5,22,25,29,39,41,40,42,49,53,54	-0.08	0.14	1.84	-2.86	-2.52	-0.73	-0.64	-0.03	0.84	2.78	-3.71	2.92	1.92	2.14	-0.16	1.14	0.55	**3.53**
5299	2,5,22,25,29,39,41,43,47,46,48,51	1.18	0.40	3.06	-1.29	-3.86	0.13	0.56	-0.73	0.60	2.70	-2.29	3.87	2.78	2.14	-0.16	1.14	0.55	**10.77**
5300	2,5,22,25,29,39,41,43,47,46,48,52,53,54	0.85	0.40	2.71	-1.68	-3.33	-0.73	0.32	-0.55	0.72	2.70	-2.60	2.92	2.29	2.14	-0.16	1.14	0.55	**7.69**
5301	2,5,22,25,29,39,41,43,47,49,53,54	-0.08	0.66	1.84	-2.78	-2.47	-0.73	-0.64	-0.03	0.84	2.81	-3.71	2.92	1.92	2.14	-0.16	1.14	0.55	**4.22**
5302	2,5,22,25,29,39,41,43,50,54	-0.18	0.14	1.82	-2.90	-2.54	-0.73	-0.40	-0.55	1.42	2.85	-3.95	1.96	1.88	2.14	-0.16	1.14	0.55	**2.50**
5303	2,5,22,25,29,39,44,55	-1.11	-1.15	2.17	-3.09	-2.65	-1.16	-1.59	-0.73	1.17	2.83	-4.10	1.96	1.81	2.14	-0.16	1.14	0.55	**-1.97**
5304	2,5,22,25,29,39,45,55	0.59	-0.12	3.01	-2.07	-3.14	0.98	-0.40	-0.15	2.49	3.64	-3.40	1.96	2.69	2.14	-0.16	1.14	0.55	**9.76**

Max	2.80	3.00	3.27	3.26	2.29	3.55	3.43	2.51	3.32	3.76	2.10	3.87	3.34	2.34	1.23	3.05	2.68
Average	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Min	-1.74	-3.23	-1.67	-3.09	-4.24	-2.02	-2.07	-2.45	-3.98	-1.39	-4.10	-1.85	-1.66	-1.29	-1.55	-0.77	-0.72
St. Dev	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Westar Energy- JEC to East Manhattan
345/230 kV Transmission Line Project
Table F-3: Weighted, Sorted Z-scores for All Routes

Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
1	2842	2,4,3,6,10,15,23,27,28,31,33,37,42,49,53,54	-4.49	-0.38	-11.60	-5.26	2.30	-3.18	-4.77	-1.58	-3.26	-2.33	-0.81	0.11	-11.60	-6.29	-0.33	-1.54	-2.17	**-57.2**
2	1590	1,6,10,15,23,27,28,31,33,37,42,49,53,54	-4.66	-1.41	-11.69	-6.09	1.80	-2.32	-4.77	-1.18	-3.26	-2.36	-0.83	0.11	-11.82	-6.29	2.45	-1.54	-2.17	**-56.0**
3	2754	2,4,3,6,10,13,17,21,28,31,33,37,42,49,53,54	-4.58	-0.38	-12.12	-2.52	2.62	-1.46	-2.62	-4.63	-4.48	-5.74	-0.15	0.11	-11.73	-4.31	-0.33	-1.54	-2.17	**-56.0**
4	2852	2,4,3,6,10,15,23,27,28,34,35,37,42,49,53,54	-4.57	-0.38	-11.56	-5.15	4.09	-3.18	-5.49	-1.58	-2.05	-2.58	-0.84	0.11	-12.00	-6.29	-0.33	-1.54	-2.17	**-55.5**
5	2838	2,4,3,6,10,15,23,27,28,31,33,37,40,43,50,54	-4.39	0.14	-11.46	-5.46	2.20	-1.46	-4.06	-3.66	-0.94	-1.87	-1.02	-1.80	-11.32	-6.29	-0.33	-1.54	-2.17	**-55.4**
6	2828	2,4,3,6,10,15,23,26,33,37,42,49,53,54	-4.59	-0.90	-11.28	-5.40	1.28	-3.18	-4.77	-1.58	-1.85	-4.55	-0.56	0.11	-11.29	-6.29	-0.33	2.28	-2.17	**-55.1**
7	1502	1,6,10,13,17,21,28,31,33,37,42,49,53,54	-4.76	-1.41	-12.20	-3.34	2.12	-0.60	-2.62	-4.23	-4.48	-5.77	-0.16	0.11	-11.95	-4.31	2.45	-1.54	-2.17	**-54.9**
8	2841	2,4,3,6,10,15,23,27,28,31,33,37,42,47,50,54	-4.36	-0.12	-11.45	-5.00	2.45	-1.46	-4.06	-3.66	-0.94	-1.56	-1.00	-1.80	-11.28	-6.29	-0.33	-1.54	-2.17	**-54.6**
9	1600	1,6,10,15,23,27,28,34,35,37,42,49,53,54	-4.75	-1.41	-11.64	-5.98	3.59	-2.32	-5.49	-1.18	-2.05	-2.61	-0.85	0.11	-12.22	-6.29	2.45	-1.54	-2.17	**-54.4**
10	2764	2,4,3,6,10,13,17,21,28,34,35,37,42,49,53,54	-4.67	-0.38	-12.07	-2.41	4.41	-1.46	-3.34	-4.63	-3.28	-6.00	-0.17	0.11	-12.13	-4.31	-0.33	-1.54	-2.17	**-54.4**
11	1586	1,6,10,15,23,27,28,31,33,37,40,43,50,54	-4.57	-0.90	-11.55	-6.28	1.69	-0.60	-4.06	-3.26	-0.94	-1.90	-1.03	-1.80	-11.55	-6.29	2.45	-1.54	-2.17	**-54.3**
12	2750	2,4,3,6,10,13,17,21,28,31,33,37,40,43,50,54	-4.49	0.14	-11.97	-2.71	2.52	0.25	-1.91	-6.71	-2.16	-5.29	-0.35	-1.80	-11.45	-4.31	-0.33	-1.54	-2.17	**-54.3**
13	1576	1,6,10,15,23,26,33,37,42,49,53,54	-4.77	-1.93	-11.37	-6.22	0.77	-2.32	-4.77	-1.18	-1.85	-4.58	-0.57	0.11	-11.52	-6.29	2.45	2.28	-2.17	**-53.9**
14	2848	2,4,3,6,10,15,23,27,28,34,35,37,40,43,50,54	-4.47	0.14	-11.41	-5.35	3.99	-1.46	-4.77	-3.66	0.27	-2.13	-1.04	-1.80	-11.72	-6.29	-0.33	-1.54	-2.17	**-53.8**
15	4698	2,4,7,9,10,15,23,27,28,31,33,37,42,49,53,54	-4.59	-0.38	-11.57	-5.79	2.25	-3.18	-4.06	3.22	-2.92	-2.41	-0.92	0.11	-11.45	-4.97	-3.11	-1.54	-2.17	**-53.5**
16	1589	1,6,10,15,23,27,28,31,33,37,42,47,50,54	-4.53	-1.15	-11.54	-5.83	1.94	-0.60	-4.06	-3.26	-0.94	-1.59	-1.01	-1.80	-11.50	-6.29	2.45	-1.54	-2.17	**-53.4**
17	2753	2,4,3,6,10,13,17,21,28,31,33,37,42,47,50,54	-4.45	-0.12	-11.96	-2.26	2.76	0.25	-1.91	-6.71	-2.16	-4.98	-0.33	-1.80	-11.41	-4.31	-0.33	-1.54	-2.17	**-53.4**
18	2824	2,4,3,6,10,15,23,26,33,37,40,43,50,54	-4.50	-0.38	-11.14	-5.59	1.17	-1.46	-4.06	-3.66	0.48	-4.09	-0.76	-1.80	-11.02	-6.29	-0.33	2.28	-2.17	**-53.3**
19	1512	1,6,10,13,17,21,28,34,35,37,42,49,53,54	-4.84	-1.41	-12.15	-3.23	3.91	-0.60	-3.34	-4.23	-3.28	-6.03	-0.19	0.11	-12.35	-4.31	2.45	-1.54	-2.17	**-53.2**
20	2606	2,4,3,6,10,13,17,18,20,23,27,28,31,33,37,42,49,53,54	-4.27	0.14	-13.01	-1.28	2.45	-3.18	-4.06	-1.87	-2.34	-2.33	-0.57	0.11	-13.62	-5.30	-0.33	-1.54	-2.17	**-53.2**
21	1498	1,6,10,13,17,21,28,31,33,37,40,43,50,54	-4.66	-0.90	-12.06	-3.54	2.01	1.11	-1.91	-6.31	-2.16	-5.31	-0.37	-1.80	-11.68	-4.31	2.45	-1.54	-2.17	**-53.1**
22	2851	2,4,3,6,10,15,23,27,28,34,35,37,42,47,50,54	-4.44	-0.12	-11.40	-4.89	4.24	-1.46	-4.77	-3.66	0.27	-1.82	-1.02	-1.80	-11.68	-6.29	-0.33	-1.54	-2.17	**-52.9**
23	3726	2,4,3,6,9,11,17,21,28,31,33,37,42,49,53,54	-4.53	-0.38	-11.42	-1.00	2.83	-1.46	-1.91	0.33	-3.38	-6.03	-0.05	0.11	-10.87	-10.90	-0.33	-1.54	-2.17	**-52.7**
24	1596	1,6,10,15,23,27,28,34,35,37,40,43,50,54	-4.65	-0.90	-11.50	-6.17	3.48	-0.60	-4.77	-3.26	0.27	-2.15	-1.06	-1.80	-11.95	-6.29	2.45	-1.54	-2.17	**-52.6**
25	2760	2,4,3,6,10,13,17,21,28,34,35,37,40,43,50,54	-4.57	0.14	-11.92	-2.60	4.30	0.25	-2.62	-6.71	-0.95	-5.54	-0.38	-1.80	-11.85	-4.31	-0.33	-1.54	-2.17	**-52.6**
26	2827	2,4,3,6,10,15,23,26,33,37,42,47,50,54	-4.46	-0.64	-11.12	-5.14	1.42	-1.46	-4.06	-3.66	0.48	-3.78	-0.74	-1.80	-10.97	-6.29	-0.33	2.28	-2.17	**-52.4**
27	4610	2,4,7,9,10,13,17,21,28,31,33,37,42,49,53,54	-4.68	-0.38	-12.08	-3.05	2.57	-1.46	-1.91	0.18	-4.14	-5.83	-0.25	0.11	-11.58	-2.99	-3.11	-1.54	-2.17	**-52.3**
28	1501	1,6,10,13,17,21,28,31,33,37,42,47,50,54	-4.63	-1.15	-12.05	-3.09	2.26	1.11	-1.91	-6.31	-2.16	-5.01	-0.34	-1.80	-11.63	-4.31	2.45	-1.54	-2.17	**-52.3**
29	2837	2,4,3,6,10,15,23,27,28,31,33,37,40,43,47,49,53,54	-4.09	0.66	-11.31	-4.86	2.52	-1.46	-4.77	-1.58	-3.26	-2.13	-0.78	0.11	-10.93	-6.29	-0.33	-1.54	-2.17	**-52.2**
30	1572	1,6,10,15,23,26,33,37,40,43,50,54	-4.67	-1.41	-11.23	-6.41	0.67	-0.60	-4.06	-3.26	0.48	-4.12	-0.77	-1.80	-11.24	-6.29	2.45	2.28	-2.17	**-52.2**
31	1354	1,6,10,13,17,18,20,23,27,28,31,33,37,42,49,53,54	-4.45	-0.90	-13.10	-2.11	1.95	-2.32	-4.06	-1.47	-2.34	-2.36	-0.58	0.11	-13.84	-5.30	2.45	-1.54	-2.17	**-52.0**
32	4708	2,4,7,9,10,15,23,27,28,34,35,37,42,49,53,54	-4.67	-0.38	-11.52	-5.68	4.04	-3.18	-4.77	3.22	-1.71	-2.67	-0.94	0.11	-11.86	-4.97	-3.11	-1.54	-2.17	**-51.8**
33	1599	1,6,10,15,23,27,28,34,35,37,42,47,50,54	-4.62	-1.15	-11.49	-5.72	3.73	-0.60	-4.77	-3.26	0.27	-1.85	-1.04	-1.80	-11.90	-6.29	2.45	-1.54	-2.17	**-51.8**
34	2763	2,4,3,6,10,13,17,21,28,34,35,37,42,47,50,54	-4.54	-0.12	-11.91	-2.15	4.55	0.25	-2.62	-6.71	-0.95	-5.23	-0.36	-1.80	-11.81	-4.31	-0.33	-1.54	-2.17	**-51.7**
35	4694	2,4,7,9,10,15,23,27,28,31,33,37,40,43,50,54	-4.49	0.14	-11.43	-5.98	2.14	-1.46	-3.34	1.14	-0.59	-1.95	-1.12	-1.80	-11.18	-4.97	-3.11	-1.54	-2.17	**-51.7**
36	3254	2,4,3,6,9,11,13,15,23,27,28,31,33,37,42,49,53,54	-4.23	0.40	-10.77	-3.34	2.74	-3.18	-4.06	3.38	-2.15	-2.62	-0.64	0.11	-10.42	-12.87	-0.33	-1.54	-2.17	**-51.7**
37	2474	1,6,9,11,17,21,28,31,33,37,42,49,53,54	-4.71	-1.41	-11.51	-1.83	2.33	-0.60	-1.91	0.73	-3.38	-6.06	-0.06	0.11	-11.10	-10.90	2.45	-1.54	-2.17	**-51.6**
38	2740	2,4,3,6,10,13,17,21,27,26,33,37,42,49,53,54	-4.36	-0.38	-11.56	-2.65	1.59	-1.46	-2.62	-4.63	-3.07	-7.21	0.11	0.11	-10.88	-4.31	-0.33	2.28	-2.17	**-51.5**
39	2616	2,4,3,6,10,13,17,18,20,23,27,28,34,35,37,42,49,53,54	-4.36	0.14	-12.96	-1.17	4.24	-3.18	-4.77	-1.87	-1.13	-2.59	-0.59	0.11	-14.02	-5.30	-0.33	-1.54	-2.17	**-51.5**
40	1508	1,6,10,13,17,21,28,34,35,37,40,43,50,54	-4.75	-0.90	-12.01	-3.43	3.80	1.11	-2.62	-6.31	-0.95	-5.57	-0.39	-1.80	-12.08	-4.31	2.45	-1.54	-2.17	**-51.5**
41	2602	2,4,3,6,10,13,17,18,20,23,27,28,31,33,37,40,43,50,54	-4.18	0.66	-12.87	-1.48	2.34	-1.46	-3.34	-3.95	-0.01	-1.87	-0.77	-1.80	-13.35	-5.30	-0.33	-1.54	-2.17	**-51.4**
42	4330	2,4,7,11,17,21,28,31,33,37,42,49,53,54	-4.96	-1.41	-11.63	-1.53	2.78	-1.46	-1.19	5.14	-3.06	-6.12	-0.21	0.11	-11.41	-9.58	-3.11	-1.54	-2.17	**-51.4**
43	4684	2,4,7,9,10,15,23,26,33,37,42,49,53,54	-4.69	-0.90	-11.25	-5.92	1.22	-3.18	-4.06	3.22	-1.50	-4.63	-0.66	0.11	-11.15	-4.97	-3.11	2.28	-2.17	**-51.4**
44	1575	1,6,10,15,23,26,33,37,42,47,50,54	-4.64	-1.67	-11.21	-5.96	0.92	-0.60	-4.06	-3.26	0.48	-3.81	-0.75	-1.80	-11.20	-6.29	2.45	2.28	-2.17	**-51.3**
45	1585	1,6,10,15,23,27,28,31,33,37,40,43,47,49,53,54	-4.27	-0.38	-11.40	-5.69	2.02	-0.60	-4.77	-1.18	-3.26	-2.16	-0.79	0.11	-11.16	-6.29	2.45	-1.54	-2.17	**-51.1**
46	2749	2,4,3,6,10,13,17,21,28,31,33,37,40,43,47,49,53,54	-4.19	0.66	-11.82	-2.12	2.84	0.25	-2.62	-4.63	-4.48	-5.55	-0.11	0.11	-11.06	-4.31	-0.33	-1.54	-2.17	**-51.1**
47	2798	2,4,3,6,10,15,23,26,31,34,35,37,42,49,53,54	-4.40	0.14	-11.03	-5.29	3.07	-3.18	-5.49	-1.58	-0.64	-4.65	-0.50	0.11	-11.11	-6.29	-0.33	2.28	-2.17	**-51.1**
48	2592	2,4,3,6,10,13,17,18,20,23,26,33,37,42,49,53,54	-4.38	-0.38	-12.69	-1.42	1.42	-3.18	-4.06	-1.87	-0.92	-4.55	-0.31	0.11	-13.32	-5.30	-0.33	2.28	-2.17	**-51.0**
49	3736	2,4,3,6,9,11,17,21,28,34,35,37,42,49,53,54	-4.62	-0.38	-11.38	-0.90	4.62	-1.46	-2.62	0.33	-2.17	-6.29	-0.07	0.11	-11.28	-10.90	-0.33	-1.54	-2.17	**-51.0**
50	3722	2,4,3,6,9,11,17,21,28,31,33,37,40,43,50,54	-4.43	0.14	-11.28	-1.20	2.72	0.25	-1.19	-1.75	-1.05	-5.58	-0.25	-1.80	-10.60	-10.90	-0.33	-1.54	-2.17	**-51.0**
51	4697	2,4,7,9,10,15,23,27,28,31,33,37,42,47,50,54	-4.46	-0.12	-11.42	-5.53	2.39	-1.46	-3.34	1.14	-0.59	-1.65	-1.10	-1.80	-11.13	-4.97	-3.11	-1.54	-2.17	**-50.9**
52	4620	2,4,7,9,10,13,17,21,28,34,35,37,42,49,53,54	-4.77	-0.38	-12.03	-2.94	4.36	-1.46	-2.62	0.18	-2.93	-6.08	-0.28	0.11	-11.98	-2.99	-3.11	-1.54	-2.17	**-50.7**
53	1511	1,6,10,13,17,21,28,34,35,37,42,47,50,54	-4.71	-1.15	-12.00	-2.98	4.05	1.11	-2.62	-6.31	-0.95	-5.26	-0.37	-1.80	-12.03	-4.31	2.45	-1.54	-2.17	**-50.6**
54	4606	2,4,7,9,10,13,17,21,28,31,33,37,40,43,50,54	-4.59	0.14	-11.94	-3.24	2.46	0.25	-1.19	-1.91	-1.82	-5.37	-0.46	-1.80	-11.31	-2.99	-3.11	-1.54	-2.17	**-50.6**
55	2002	1,6,9,11,13,15,23,27,28,31,33,37,42,49,53,54	-4.41	-0.64	-10.85	-4.17	2.23	-2.32	-4.06	3.78	-2.15	-2.65	-0.66	0.11	-10.64	-12.87	2.45	-1.54	-2.17	**-50.6**

Westar Energy- JEC to East Manhattan
345/230 kV Transmission Line Project
Table F-3: Weighted, Sorted Z-scores for All Routes

Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
56	2605	2,4,3,6,10,13,17,18,20,23,27,28,31,33,37,42,47,50,54	-4.14	0.40	-12.86	-1.02	2.59	-1.46	-3.34	-3.95	-0.01	-1.57	-0.75	-1.80	-13.30	-5.30	-0.33	-1.54	-2.17	**-50.5**
57	2847	2,4,3,6,10,15,23,27,28,34,35,37,40,43,47,49,53,54	-4.18	0.66	-11.26	-4.76	4.31	-1.46	-5.49	-1.58	-2.05	-2.39	-0.80	0.11	-11.33	-6.29	-0.33	-1.54	-2.17	**-50.5**
58	1488	1,6,10,13,17,21,27,26,33,37,42,49,53,54	-4.54	-1.41	-11.64	-3.48	1.09	-0.60	-2.62	-4.23	-3.07	-7.24	0.10	0.11	-11.11	-4.31	2.45	2.28	-2.17	**-50.4**
59	3858	2,4,7,11,13,15,23,27,28,31,33,37,42,49,53,54	-4.66	-0.64	-10.97	-3.87	2.68	-3.18	-3.34	8.18	-1.84	-2.70	-0.81	0.11	-10.95	-11.56	-3.11	-1.54	-2.17	**-50.4**
60	1364	1,6,10,13,17,18,20,23,27,28,34,35,37,42,49,53,54	-4.54	-0.90	-13.05	-2.00	3.74	-2.32	-4.77	-1.47	-1.13	-2.62	-0.61	0.11	-14.24	-5.30	2.45	-1.54	-2.17	**-50.4**
61	1350	1,6,10,13,17,18,20,23,27,28,31,33,37,40,43,50,54	-4.35	-0.38	-12.96	-2.30	1.84	-0.60	-3.34	-3.55	-0.01	-1.90	-0.79	-1.80	-13.57	-5.30	2.45	-1.54	-2.17	**-50.3**
62	2823	2,4,3,6,10,15,23,26,33,37,40,43,47,49,53,54	-4.20	0.14	-10.98	-5.00	1.50	-1.46	-4.77	-1.58	-1.85	-4.35	-0.52	0.11	-10.63	-6.29	-0.33	2.28	-2.17	**-50.1**
63	3725	2,4,3,6,9,11,17,21,28,31,33,37,42,47,50,54	-4.40	-0.12	-11.27	-0.75	2.97	0.25	-1.19	-1.75	-1.05	-5.27	-0.23	-1.80	-10.55	-10.90	-0.33	-1.54	-2.17	**-50.1**
64	4704	2,4,7,9,10,15,23,27,28,34,35,37,40,43,50,54	-4.58	0.14	-11.38	-5.87	3.93	-1.46	-4.06	1.14	0.61	-2.21	-1.15	-1.80	-11.58	-4.97	-3.11	-1.54	-2.17	**-50.1**
65	3264	2,4,3,6,9,11,13,15,23,27,28,34,35,37,42,49,53,54	-4.32	0.40	-10.72	-3.23	4.52	-3.18	-4.77	3.38	-0.95	-2.87	-0.67	0.11	-10.82	-12.87	-0.33	-1.54	-2.17	**-50.0**
66	3250	2,4,3,6,9,11,13,15,23,27,28,31,33,37,40,43,50,54	-4.13	0.92	-10.62	-3.54	2.63	-1.46	-3.34	1.29	0.17	-2.16	-0.85	-1.80	-10.14	-12.87	-0.33	-1.54	-2.17	**-49.9**
67	1497	1,6,10,13,17,21,28,31,33,37,40,43,47,49,53,54	-4.36	-0.38	-11.91	-2.95	2.34	1.11	-2.62	-4.23	-4.48	-5.58	-0.12	0.11	-11.29	-4.31	2.45	-1.54	-2.17	**-49.9**
68	1546	1,6,10,15,23,26,31,34,35,37,42,49,53,54	-4.57	-0.90	-11.12	-6.11	2.56	-2.32	-5.49	-1.18	-0.64	-4.68	-0.52	0.11	-11.34	-6.29	2.45	2.28	-2.17	**-49.9**
69	1340	1,6,10,13,17,18,20,23,26,33,37,42,49,53,54	-4.56	-1.41	-12.77	-2.24	0.92	-2.32	-4.06	-1.47	-0.92	-4.58	-0.32	0.11	-13.54	-5.30	2.45	2.28	-2.17	**-49.9**
70	2484	1,6,9,11,17,21,28,34,35,37,42,49,53,54	-4.79	-1.41	-11.46	-1.72	4.12	-0.60	-2.62	0.73	-2.17	-6.32	-0.09	0.11	-11.50	-10.90	2.45	-1.54	-2.17	**-49.9**
71	3578	2,4,3,6,9,11,17,18,20,23,27,28,31,33,37,42,49,53,54	-4.22	0.14	-12.32	0.23	2.66	-3.18	-3.34	3.09	-1.23	-2.62	-0.47	0.11	-12.77	-11.89	-0.33	-1.54	-2.17	**-49.8**
72	2470	1,6,9,11,17,21,28,31,33,37,40,43,50,54	-4.61	-0.90	-11.37	-2.02	2.22	1.11	-1.19	-1.35	-1.05	-5.60	-0.27	-1.80	-10.83	-10.90	2.45	-1.54	-2.17	**-49.8**
73	2736	2,4,3,6,10,13,17,21,27,26,33,37,40,43,50,54	-4.27	0.14	-11.41	-2.85	1.49	0.25	-1.91	-6.71	-0.74	-6.75	-0.10	-1.80	-10.61	-4.31	-0.33	2.28	-2.17	**-49.8**
74	2612	2,4,3,6,10,13,17,18,20,23,27,28,34,35,37,40,43,50,54	-4.26	0.66	-12.82	-1.37	4.13	-1.46	-4.06	-3.95	1.19	-2.13	-0.80	-1.80	-13.75	-5.30	-0.33	-1.54	-2.17	**-49.7**
75	4609	2,4,7,9,10,13,17,21,28,31,33,37,42,47,50,54	-4.55	-0.12	-11.93	-2.79	2.71	0.25	-1.19	-1.91	-1.82	-5.06	-0.43	-1.80	-11.26	-2.99	-3.11	-1.54	-2.17	**-49.7**
76	4340	2,4,7,11,17,21,28,34,35,37,42,49,53,54	-5.05	-1.41	-11.58	-1.42	4.56	-1.46	-1.91	5.14	-1.86	-6.37	-0.24	0.11	-11.81	-9.58	-3.11	-1.54	-2.17	**-49.7**
77	4326	2,4,7,11,17,21,28,31,33,37,40,43,50,54	-4.87	-0.90	-11.49	-1.73	2.67	0.25	-0.47	3.05	-0.74	-5.66	-0.42	-1.80	-11.14	-9.58	-3.11	-1.54	-2.17	**-49.6**
78	4680	2,4,7,9,10,15,23,26,33,37,40,43,50,54	-4.60	-0.38	-11.11	-6.12	1.12	-1.46	-3.34	1.14	0.82	-4.17	-0.86	-1.80	-10.88	-4.97	-3.11	2.28	-2.17	**-49.6**
79	3240	2,4,3,6,9,11,13,15,23,26,33,37,42,49,53,54	-4.34	-0.12	-10.44	-3.48	1.71	-3.18	-4.06	3.38	-0.74	-4.84	-0.38	0.11	-10.11	-12.87	-0.33	2.28	-2.17	**-49.6**
80	4462	2,4,7,9,10,13,17,18,20,23,27,28,31,33,37,42,49,53,54	-4.38	0.14	-12.98	-1.81	2.40	-3.18	-3.34	2.94	-2.00	-2.42	-0.67	0.11	-13.48	-3.98	-3.11	-1.54	-2.17	**-49.5**
81	1353	1,6,10,13,17,18,20,23,27,28,31,33,37,42,47,50,54	-4.32	-0.64	-12.94	-1.85	2.09	-0.60	-3.34	-3.55	-0.01	-1.60	-0.76	-1.80	-13.52	-5.30	2.45	-1.54	-2.17	**-49.4**
82	1595	1,6,10,15,23,27,28,34,35,37,40,43,47,49,53,54	-4.35	-0.38	-11.35	-5.58	3.81	-0.60	-5.49	-1.18	-2.05	-2.42	-0.82	0.11	-11.56	-6.29	2.45	-1.54	-2.17	**-49.4**
83	2759	2,4,3,6,10,13,17,21,28,34,35,37,40,43,47,49,53,54	-4.27	0.66	-11.77	-2.01	4.63	0.25	-3.34	-4.63	-3.28	-5.80	-0.14	0.11	-11.46	-4.31	-0.33	-1.54	-2.17	**-49.4**
84	2990	2,4,3,6,10,16,18,21,28,31,33,37,42,49,53,54	-4.56	-0.38	-12.10	-2.72	3.85	-1.46	-3.34	-4.63	-4.48	-5.74	-0.17	0.11	-11.66	1.95	-0.33	-1.54	-2.17	**-49.4**
85	2794	2,4,3,6,10,15,23,26,31,34,35,37,40,43,50,54	-4.30	0.66	-10.89	-5.48	2.96	-1.46	-4.77	-3.66	1.69	-4.19	-0.71	-1.80	-10.84	-6.29	-0.33	2.28	-2.17	**-49.3**
86	2588	2,4,3,6,10,13,17,18,20,23,26,33,37,40,43,50,54	-4.28	0.14	-12.54	-1.61	1.32	-1.46	-3.34	-3.95	1.40	-4.09	-0.51	-1.80	-13.04	-5.30	-0.33	2.28	-2.17	**-49.3**
87	3732	2,4,3,6,9,11,17,21,28,34,35,37,40,43,50,54	-4.52	0.14	-11.23	-1.09	4.51	0.25	-1.91	-1.75	0.15	-5.83	-0.28	-1.80	-11.00	-10.90	-0.33	-1.54	-2.17	**-49.3**
88	4707	2,4,7,9,10,15,23,27,28,34,35,37,42,47,50,54	-4.54	-0.12	-11.37	-5.42	4.18	-1.46	-4.06	1.14	0.61	-1.90	-1.12	-1.80	-11.53	-4.97	-3.11	-1.54	-2.17	**-49.2**
89	3253	2,4,3,6,9,11,13,15,23,27,28,31,33,37,42,47,50,54	-4.10	0.66	-10.61	-3.09	2.88	-1.46	-3.34	1.29	0.17	-1.86	-0.83	-1.80	-10.09	-12.87	-0.33	-1.54	-2.17	**-49.1**
90	1571	1,6,10,15,23,26,33,37,40,43,47,49,53,54	-4.37	-0.90	-11.07	-5.82	0.99	-0.60	-4.77	-1.18	-1.85	-4.38	-0.53	0.11	-10.85	-6.29	2.45	2.28	-2.17	**-49.0**
91	2473	1,6,9,11,17,21,28,31,33,37,42,47,50,54	-4.58	-1.15	-11.36	-1.57	2.47	1.11	-1.19	-1.35	-1.05	-5.30	-0.25	-1.80	-10.78	-10.90	2.45	-1.54	-2.17	**-49.0**
92	2739	2,4,3,6,10,13,17,21,27,26,33,37,42,47,50,54	-4.23	-0.12	-11.40	-2.40	1.74	0.25	-1.91	-6.71	-0.74	-6.44	-0.07	-1.80	-10.56	-4.31	-0.33	2.28	-2.17	**-48.9**
93	4616	2,4,7,9,10,13,17,21,28,34,35,37,40,43,50,54	-4.67	0.14	-11.89	-3.13	4.25	0.25	-1.91	-1.91	-0.61	-5.62	-0.48	-1.80	-11.71	-2.99	-3.11	-1.54	-2.17	**-48.9**
94	2012	1,6,9,11,13,15,23,27,28,34,35,37,42,49,53,54	-4.49	-0.64	-10.80	-4.06	4.02	-2.32	-4.77	3.78	-0.95	-2.90	-0.68	0.11	-11.04	-12.87	2.45	-1.54	-2.17	**-48.9**
95	2615	2,4,3,6,10,13,17,18,20,23,27,28,34,35,37,42,47,50,54	-4.23	0.40	-12.81	-0.91	4.38	-1.46	-4.06	-3.95	1.19	-1.82	-0.78	-1.80	-13.70	-5.30	-0.33	-1.54	-2.17	**-48.9**
96	1998	1,6,9,11,13,15,23,27,28,31,33,37,40,43,50,54	-4.31	-0.12	-10.71	-4.36	2.13	-0.60	-3.34	1.69	0.17	-2.19	-0.86	-1.80	-10.37	-12.87	2.45	-1.54	-2.17	**-48.8**
97	4329	2,4,7,11,17,21,28,31,33,37,42,47,50,54	-4.83	-1.15	-11.48	-1.27	2.92	0.25	-0.47	3.05	-0.74	-5.35	-0.40	-1.80	-11.09	-9.58	-3.11	-1.54	-2.17	**-48.8**
98	4683	2,4,7,9,10,15,23,26,33,37,42,47,50,54	-4.56	-0.64	-11.09	-5.67	1.36	-1.46	-3.34	1.14	0.82	-3.86	-0.84	-1.80	-10.83	-4.97	-3.11	2.28	-2.17	**-48.7**
99	2326	1,6,9,11,17,18,20,23,27,28,31,33,37,42,49,53,54	-4.40	-0.90	-12.41	-0.59	2.16	-2.32	-3.34	3.49	-1.23	-2.65	-0.48	0.11	-12.99	-11.89	2.45	-1.54	-2.17	**-48.7**
100	3868	2,4,7,11,13,15,23,27,28,34,35,37,42,49,53,54	-4.75	-0.64	-10.92	-3.76	4.47	-3.18	-4.06	8.18	-0.63	-2.96	-0.83	0.11	-11.35	-11.56	-3.11	-1.54	-2.17	**-48.7**
101	1484	1,6,10,13,17,21,27,26,33,37,40,43,50,54	-4.44	-0.90	-11.50	-3.67	0.98	1.11	-1.91	-6.31	-0.74	-6.78	-0.11	-1.80	-10.84	-4.31	2.45	2.28	-2.17	**-48.7**
102	3854	2,4,7,11,13,15,23,27,28,31,33,37,40,43,50,54	-4.57	-0.12	-10.83	-4.06	2.57	-1.46	-2.62	6.10	0.49	-2.24	-1.01	-1.80	-10.68	-11.56	-3.11	-1.54	-2.17	**-48.6**
103	1360	1,6,10,13,17,18,20,23,27,28,34,35,37,40,43,50,54	-4.44	-0.38	-12.91	-2.19	3.63	-0.60	-4.06	-3.55	1.19	-2.16	-0.81	-1.80	-13.97	-5.30	2.45	-1.54	-2.17	**-48.6**
104	3078	2,4,3,6,10,16,20,23,27,28,31,33,37,42,49,53,54	-4.50	-0.90	-13.17	-1.48	3.68	-3.18	-4.77	-1.87	-2.34	-2.33	-0.62	0.11	-14.06	0.96	-0.33	-1.54	-2.17	**-48.5**
105	4182	2,4,7,11,17,18,20,23,27,28,31,33,37,42,49,53,54	-4.65	-0.90	-12.53	-0.29	2.60	-3.18	-2.62	7.90	-0.92	-2.71	-0.63	0.11	-13.30	-10.57	-3.11	-1.54	-2.17	**-48.5**
106	4693	2,4,7,9,10,15,23,27,28,31,33,37,40,43,47,49,53,54	-4.19	0.66	-11.28	-5.39	2.47	-1.46	-4.06	3.22	-2.92	-2.22	-0.88	0.11	-10.79	-4.97	-3.11	-1.54	-2.17	**-48.5**
107	2797	2,4,3,6,10,15,23,26,31,34,35,37,42,47,50,54	-4.27	0.40	-10.87	-5.03	3.21	-1.46	-4.77	-3.66	1.69	-3.88	-0.69	-1.80	-10.79	-6.29	-0.33	2.28	-2.17	**-48.4**
108	1988	1,6,9,11,13,15,23,26,33,37,42,49,53,54	-4.51	-1.15	-10.53	-4.30	1.20	-2.32	-4.06	3.78	-0.74	-4.87	-0.40	0.11	-10.34	-12.87	2.45	2.28	-2.17	**-48.4**
109	2591	2,4,3,6,10,13,17,18,20,23,26,33,37,42,47,50,54	-4.25	-0.12	-12.53	-1.16	1.57	-1.46	-3.34	-3.95	1.40	-3.78	-0.49	-1.80	-12.99	-5.30	-0.33	2.28	-2.17	**-48.4**
110	3735	2,4,3,6,9,11,17,21,28,34,35,37,42,47,50,54	-4.49	-0.12	-11.22	-0.64	4.76	0.25	-1.91	-1.75	0.15	-5.52	-0.26	-1.80	-10.95	-10.90	-0.33	-1.54	-2.17	**-48.4**

Table F-3: Weighted, Sorted Z-scores for All Routes

		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
111	942	1,3,7,9,10,15,23,27,28,31,33,37,42,49,53,54	-4.52	-0.38	-11.48	-6.13	2.01	-2.32	-4.06	3.62	-2.92	-2.44	-0.88	0.11	-11.27	-4.97	1.06	-1.54	-2.17	**-48.3**
112	3260	2,4,3,6,9,11,13,15,23,27,28,34,35,37,40,43,50,54	-4.22	0.92	-10.58	-3.43	4.42	-1.46	-4.06	1.29	1.38	-2.42	-0.87	-1.80	-10.54	-12.87	-0.33	-1.54	-2.17	**-48.3**
113	1507	1,6,10,13,17,21,28,34,35,37,40,43,47,49,53,54	-4.45	-0.38	-11.86	-2.84	4.13	1.11	-3.34	-4.23	-3.28	-5.83	-0.15	0.11	-11.69	-4.31	2.45	-1.54	-2.17	**-48.3**
114	3844	2,4,7,11,13,15,23,26,33,37,42,49,53,54	-4.77	-1.15	-10.65	-4.01	1.65	-3.18	-3.34	8.18	-0.42	-4.92	-0.55	0.11	-10.64	-11.56	-3.11	2.28	-2.17	**-48.3**
115	1738	1,6,10,16,18,21,28,31,33,37,42,49,53,54	-4.74	-1.41	-12.19	-3.54	3.35	-0.60	-3.34	-4.23	-4.48	-5.77	-0.18	0.11	-11.88	1.95	2.45	-1.54	-2.17	**-48.2**
116	3712	2,4,3,6,9,11,17,21,27,26,33,37,42,49,53,54	-4.31	-0.38	-10.87	-1.14	1.80	-1.46	-1.91	0.33	-1.96	-7.50	0.21	0.11	-10.03	-10.90	-0.33	2.28	-2.17	**-48.2**
117	2601	2,4,3,6,10,13,17,18,20,23,27,28,31,33,37,40,43,47,49,53,54	-3.88	1.18	-12.71	-0.88	2.67	-1.46	-4.06	-1.87	-2.34	-2.14	-0.53	0.11	-12.96	-5.30	-0.33	-1.54	-2.17	**-48.2**
118	3588	2,4,3,6,9,11,17,18,20,23,27,28,34,35,37,42,49,53,54	-4.31	0.14	-12.27	0.34	4.45	-3.18	-4.06	3.09	-0.03	-2.88	-0.49	0.11	-13.17	-11.89	-0.33	-1.54	-2.17	**-48.2**
119	1542	1,6,10,15,23,26,31,34,35,37,40,43,50,54	-4.48	-0.38	-10.97	-6.31	2.46	-0.60	-4.77	-3.26	1.69	-4.22	-0.72	-1.80	-11.06	-6.29	2.45	2.28	-2.17	**-48.2**
120	1336	1,6,10,13,17,18,20,23,26,33,37,40,43,50,54	-4.46	-0.90	-12.63	-2.43	0.81	-0.60	-3.34	-3.55	1.40	-4.12	-0.53	-1.80	-13.27	-5.30	2.45	2.28	-2.17	**-48.2**
121	2480	1,6,9,11,17,21,28,34,35,37,40,43,50,54	-4.69	-0.90	-11.32	-1.91	4.01	1.11	-1.91	-1.35	0.15	-5.86	-0.29	-1.80	-11.23	-10.90	2.45	-1.54	-2.17	**-48.2**
122	3574	2,4,3,6,9,11,17,18,20,23,27,28,31,33,37,40,43,50,54	-4.12	0.66	-12.18	0.04	2.55	-1.46	-2.62	1.01	1.09	-2.16	-0.67	-1.80	-12.49	-11.89	-0.33	-1.54	-2.17	**-48.1**
123	4619	2,4,7,9,10,13,17,21,28,34,35,37,42,47,50,54	-4.64	-0.12	-11.88	-2.68	4.50	0.25	-1.91	-1.91	-0.61	-5.31	-0.46	-1.80	-11.66	-2.99	-3.11	-1.54	-2.17	**-48.0**
124	4336	2,4,7,11,17,21,28,34,35,37,40,43,50,54	-4.95	-0.90	-11.44	-1.62	4.46	0.25	-1.19	3.05	0.47	-5.91	-0.44	-1.80	-11.54	-9.58	-3.11	-1.54	-2.17	**-48.0**
125	2001	1,6,9,11,13,15,23,27,28,31,33,37,42,47,50,54	-4.28	-0.38	-10.70	-3.91	2.37	-0.60	-3.34	1.69	0.17	-1.88	-0.84	-1.80	-10.32	-12.87	2.45	-1.54	-2.17	**-47.9**
126	4596	2,4,7,9,10,13,17,21,27,26,33,37,42,49,53,54	-4.47	-0.38	-11.52	-3.18	1.54	-1.46	-1.91	0.18	-2.73	-7.29	0.01	0.11	-10.74	-2.99	-3.11	2.28	-2.17	**-47.8**
127	3236	2,4,3,6,9,11,13,15,23,26,33,37,40,43,50,54	-4.24	0.40	-10.30	-3.67	1.60	-1.46	-3.34	1.29	1.59	-4.38	-0.59	-1.80	-9.84	-12.87	-0.33	2.28	-2.17	**-47.8**
128	1487	1,6,10,13,17,21,27,26,33,37,42,47,50,54	-4.41	-1.15	-11.49	-3.22	1.23	1.11	-1.91	-6.31	-0.74	-6.47	-0.09	-1.80	-10.79	-4.31	2.45	2.28	-2.17	**-47.8**
129	4472	2,4,7,9,10,13,17,18,20,23,27,28,34,35,37,42,49,53,54	-4.46	0.14	-12.93	-1.70	4.19	-3.18	-4.06	2.94	-0.79	-2.67	-0.69	0.11	-13.88	-3.98	-3.11	-1.54	-2.17	**-47.8**
130	3857	2,4,7,11,13,15,23,27,28,31,33,37,42,47,50,54	-4.53	-0.38	-10.82	-3.61	2.82	-1.46	-2.62	6.10	0.49	-1.94	-0.99	-1.80	-10.63	-11.56	-3.11	-1.54	-2.17	**-47.8**
131	3721	2,4,3,6,9,11,17,21,28,31,33,37,40,43,47,49,53,54	-4.13	0.66	-11.13	-0.61	3.05	0.25	-1.91	0.33	-3.38	-5.84	-0.01	0.11	-10.21	-10.90	-0.33	-1.54	-2.17	**-47.7**
132	1363	1,6,10,13,17,18,20,23,27,28,34,35,37,42,47,50,54	-4.40	-0.64	-12.89	-1.74	3.88	-0.60	-4.06	-3.55	1.19	-1.85	-0.79	-1.80	-13.92	-5.30	2.45	-1.54	-2.17	**-47.7**
133	3564	2,4,3,6,9,11,17,18,20,23,26,33,37,42,49,53,54	-4.33	-0.38	-12.00	0.10	1.63	-3.18	-3.34	3.09	0.18	-4.84	-0.21	0.11	-12.46	-11.89	-0.33	2.28	-2.17	**-47.7**
134	4458	2,4,7,9,10,13,17,18,20,23,27,28,31,33,37,40,43,50,54	-4.28	0.66	-12.84	-2.00	2.29	-1.46	-2.62	0.85	0.33	-1.96	-0.87	-1.80	-13.20	-3.98	-3.11	-1.54	-2.17	**-47.7**
135	3000	2,4,3,6,10,16,18,21,28,34,35,37,42,49,53,54	-4.65	-0.38	-12.05	-2.61	5.64	-1.46	-4.06	-4.63	-3.28	-6.00	-0.20	0.11	-12.06	1.95	-0.33	-1.54	-2.17	**-47.7**
136	2986	2,4,3,6,10,16,18,21,28,31,33,37,40,43,50,54	-4.46	0.14	-11.96	-2.91	3.74	0.25	-2.62	-6.71	-2.16	-5.29	-0.38	-1.80	-11.38	1.95	-0.33	-1.54	-2.17	**-47.6**
137	2833	2,4,3,6,10,15,23,27,28,31,33,37,40,41,44,55	-2.56	-0.64	-5.32	-6.42	1.67	-2.32	-4.77	-4.37	-1.96	-2.02	-0.49	-1.80	-6.25	-6.29	-0.33	-1.54	-2.17	**-47.6**
138	2710	2,4,3,6,10,13,17,21,27,26,31,34,35,37,42,49,53,54	-4.17	0.66	-11.30	-2.54	3.38	-1.46	-3.34	-4.63	-1.86	-7.31	0.16	0.11	-10.70	-4.31	-0.33	2.28	-2.17	**-47.5**
139	3263	2,4,3,6,9,11,13,15,23,27,28,34,35,37,42,47,50,54	-4.19	0.66	-10.56	-2.98	4.67	-1.46	-4.06	1.29	1.38	-2.11	-0.85	-1.80	-10.50	-12.87	-0.33	-1.54	-2.17	**-47.4**
140	1826	1,6,10,16,20,23,27,28,31,33,37,42,49,53,54	-4.68	-1.93	-13.26	-2.31	3.18	-2.32	-4.77	-1.47	-2.34	-2.36	-0.63	0.11	-14.29	0.96	2.45	-1.54	-2.17	**-47.4**
141	4605	2,4,7,9,10,13,17,21,28,31,33,37,40,43,47,49,53,54	-4.29	0.66	-11.79	-2.65	2.79	0.25	-1.91	0.18	-4.14	-5.63	-0.21	0.11	-10.92	-2.99	-3.11	-1.54	-2.17	**-47.4**
142	4654	2,4,7,9,10,15,23,26,31,34,35,37,42,49,53,54	-4.50	0.14	-11.00	-5.81	3.01	-3.18	-4.77	3.22	-0.30	-4.73	-0.61	0.11	-10.97	-4.97	-3.11	2.28	-2.17	**-47.3**
143	4448	2,4,7,9,10,13,17,18,20,23,26,33,37,42,49,53,54	-4.48	-0.38	-12.65	-1.94	1.37	-3.18	-3.34	2.94	-0.58	-4.63	-0.41	0.11	-13.17	-3.98	-3.11	2.28	-2.17	**-47.3**
144	1545	1,6,10,15,23,26,31,34,35,37,42,47,50,54	-4.44	-0.64	-10.96	-5.85	2.70	-0.60	-4.77	-3.26	1.69	-3.91	-0.70	-1.80	-11.02	-6.29	2.45	2.28	-2.17	**-47.3**
145	1339	1,6,10,13,17,18,20,23,26,33,37,42,47,50,54	-4.43	-1.15	-12.62	-1.98	1.06	-0.60	-3.34	-3.55	1.40	-3.81	-0.51	-1.80	-13.22	-5.30	2.45	2.28	-2.17	**-47.3**
146	2483	1,6,9,11,17,21,28,34,35,37,42,47,50,54	-4.66	-1.15	-11.31	-1.46	4.26	1.11	-1.91	-1.35	0.15	-5.55	-0.27	-1.80	-11.18	-10.90	2.45	-1.54	-2.17	**-47.3**
147	3577	2,4,3,6,9,11,17,18,20,23,27,28,31,33,37,42,47,50,54	-4.09	0.40	-12.16	0.49	2.80	-1.46	-2.62	1.01	1.09	-1.86	-0.65	-1.80	-12.45	-11.89	-0.33	-1.54	-2.17	**-47.2**
148	2008	1,6,9,11,13,15,23,27,28,34,35,37,40,43,50,54	-4.39	-0.12	-10.66	-4.25	3.91	-0.60	-4.06	1.69	1.38	-2.44	-0.89	-1.80	-10.77	-12.87	2.45	-1.54	-2.17	**-47.1**
149	854	1,3,7,9,10,13,17,21,28,31,33,37,42,49,53,54	-4.62	-0.38	-12.00	-3.39	2.33	-0.60	-1.91	0.58	-4.14	-5.86	-0.21	0.11	-11.40	-2.99	1.06	-1.54	-2.17	**-47.1**
150	4339	2,4,7,11,17,21,28,34,35,37,42,47,50,54	-4.92	-1.15	-11.43	-1.16	4.71	0.25	-1.19	3.05	0.47	-5.60	-0.42	-1.80	-11.49	-9.58	-3.11	-1.54	-2.17	**-47.1**
151	2460	1,6,9,11,17,21,27,26,33,37,42,49,53,54	-4.49	-1.41	-10.95	-1.96	1.30	-0.60	-1.91	0.73	-1.96	-7.53	0.20	0.11	-10.26	-10.90	2.45	2.28	-2.17	**-47.1**
152	1349	1,6,10,13,17,18,20,23,27,28,31,33,37,40,43,47,49,53,54	-4.05	0.14	-12.80	-1.71	2.17	-0.60	-4.06	-1.47	-2.34	-2.17	-0.54	0.11	-13.18	-5.30	2.45	-1.54	-2.17	**-47.1**
153	2562	2,4,3,6,10,13,17,18,20,23,26,31,34,35,37,42,49,53,54	-4.18	0.66	-12.43	-1.31	3.21	-3.18	-4.77	-1.87	0.28	-4.65	-0.26	0.11	-13.13	-5.30	-0.33	2.28	-2.17	**-47.0**
154	2336	1,6,9,11,17,18,20,23,27,28,34,35,37,42,49,53,54	-4.48	-0.90	-12.36	-0.48	3.94	-2.32	-4.06	3.49	-0.03	-2.91	-0.51	0.11	-13.39	-11.89	2.45	-1.54	-2.17	**-47.0**
155	3239	2,4,3,6,9,11,13,15,23,26,33,37,42,47,50,54	-4.21	0.14	-10.29	-3.22	1.85	-1.46	-3.34	1.29	1.59	-4.07	-0.57	-1.80	-9.79	-12.87	-0.33	2.28	-2.17	**-47.0**
156	2322	1,6,9,11,17,18,20,23,27,28,31,33,37,40,43,50,54	-4.30	-0.38	-12.27	-0.78	2.05	-0.60	-2.62	1.41	1.09	-2.19	-0.69	-1.80	-12.72	-11.89	2.45	-1.54	-2.17	**-47.0**
157	3864	2,4,7,11,13,15,23,27,28,34,35,37,40,43,50,54	-4.65	-0.12	-10.78	-3.96	4.36	-1.46	-3.34	6.10	1.69	-2.50	-1.04	-1.80	-11.08	-11.56	-3.11	-1.54	-2.17	**-46.9**
158	4316	2,4,7,11,17,21,27,26,33,37,42,49,53,54	-4.75	-1.41	-11.07	-1.67	1.75	-1.46	-1.19	5.14	-1.65	-7.58	0.04	0.11	-10.57	-9.58	-3.11	2.28	-2.17	**-46.9**
159	4461	2,4,7,9,10,13,17,18,20,23,27,28,31,33,37,42,47,50,54	-4.24	0.40	-12.82	-1.55	2.54	-1.46	-2.62	0.85	0.33	-1.65	-0.85	-1.80	-13.16	-3.98	-3.11	-1.54	-2.17	**-46.8**
160	3088	2,4,3,6,10,16,20,23,27,28,34,35,37,42,49,53,54	-4.59	-0.90	-13.13	-1.37	5.47	-3.18	-5.49	-1.87	-1.13	-2.59	-0.64	0.11	-14.46	0.96	-0.33	-1.54	-2.17	**-46.8**
161	4192	2,4,7,11,17,18,20,23,27,28,34,35,37,42,49,53,54	-4.74	-0.90	-12.48	-0.18	4.39	-3.18	-3.34	7.90	0.29	-2.96	-0.66	0.11	-13.70	-10.57	-3.11	-1.54	-2.17	**-46.8**
162	4703	2,4,7,9,10,15,23,27,28,34,35,37,40,43,47,49,53,54	-4.28	0.66	-11.23	-5.28	4.26	-1.46	-4.77	3.22	-1.71	-2.47	-0.90	0.11	-11.19	-4.97	-3.11	-1.54	-2.17	**-46.8**
163	3074	2,4,3,6,10,16,20,23,27,28,31,33,37,40,43,50,54	-4.40	-0.38	-13.03	-1.68	3.57	-1.46	-4.06	-3.95	-0.01	-1.87	-0.82	-1.80	-13.79	0.96	-0.33	-1.54	-2.17	**-46.8**
164	4178	2,4,7,11,17,18,20,23,27,28,31,33,37,40,43,50,54	-4.56	-0.38	-12.39	-0.49	2.50	-1.46	-1.91	5.81	1.41	-2.25	-0.84	-1.80	-13.03	-10.57	-3.11	-1.54	-2.17	**-46.8**
165	2989	2,4,3,6,10,16,18,21,28,31,33,37,42,47,50,54	-4.43	-0.12	-11.94	-2.46	3.99	0.25	-2.62	-6.71	-2.16	-4.98	-0.35	-1.80	-11.33	1.95	-0.33	-1.54	-2.17	**-46.8**

Westar Energy- JEC to East Manhattan
345/230 kV Transmission Line Project
Table F-3: Weighted, Sorted Z-scores for All Routes

Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
166	3249	2,4,3,6,9,11,13,15,23,27,28,31,33,37,40,43,47,49,53,54	-3.83	1.44	-10.47	-2.95	2.96	-1.46	-4.06	3.38	-2.15	-2.42	-0.61	0.11	-9.75	-12.87	-0.33	-1.54	-2.17	**-46.7**
167	1984	1,6,9,11,13,15,23,26,33,37,40,43,50,54	-4.42	-0.64	-10.39	-4.50	1.10	-0.60	-3.34	1.69	1.59	-4.41	-0.60	-1.80	-10.06	-12.87	2.45	2.28	-2.17	**-46.7**
168	2469	1,6,9,11,17,21,28,31,33,37,40,43,47,49,53,54	-4.31	-0.38	-11.22	-1.43	2.55	1.11	-1.91	0.73	-3.38	-5.87	-0.03	0.11	-10.44	-10.90	2.45	-1.54	-2.17	**-46.6**
169	952	1,3,7,9,10,15,23,27,28,34,35,37,42,49,53,54	-4.61	-0.38	-11.44	-6.02	3.80	-2.32	-4.77	3.62	-1.71	-2.70	-0.91	0.11	-11.68	-4.97	1.06	-1.54	-2.17	**-46.6**
170	2735	2,4,3,6,10,13,17,21,27,26,33,37,40,43,47,49,53,54	-3.97	0.66	-11.26	-2.26	1.81	0.25	-2.62	-4.63	-3.07	-7.01	0.15	0.11	-10.22	-4.31	-0.33	2.28	-2.17	**-46.6**
171	2312	1,6,9,11,17,18,20,23,26,33,37,42,49,53,54	-4.50	-1.41	-12.08	-0.73	1.13	-2.32	-3.34	3.49	0.18	-4.87	-0.22	0.11	-12.69	-11.89	2.45	2.28	-2.17	**-46.6**
172	1748	1,6,10,16,18,21,28,34,35,37,42,49,53,54	-4.82	-1.41	-12.14	-3.44	5.14	-0.60	-4.06	-4.23	-3.28	-6.03	-0.21	0.11	-12.28	1.95	2.45	-1.54	-2.17	**-46.6**
173	938	1,3,7,9,10,15,23,27,28,31,33,37,40,43,50,54	-4.42	0.14	-11.34	-6.32	1.91	-0.60	-3.34	1.54	-0.59	-1.98	-1.09	-1.80	-11.00	-4.97	1.06	-1.54	-2.17	**-46.5**
174	2611	2,4,3,6,10,13,17,18,20,23,27,28,34,35,37,40,43,47,49,53,54	-3.96	1.18	-12.67	-0.78	4.46	-1.46	-4.77	-1.87	-1.13	-2.39	-0.56	0.11	-13.36	-5.30	-0.33	-1.54	-2.17	**-46.5**
175	3840	2,4,7,11,13,15,23,26,33,37,40,43,50,54	-4.67	-0.64	-10.51	-4.20	1.55	-1.46	-2.62	6.10	1.90	-4.46	-0.75	-1.80	-10.37	-11.56	-3.11	2.28	-2.17	**-46.5**
176	1734	1,6,10,16,18,21,28,31,33,37,40,43,50,54	-4.64	-0.90	-12.05	-3.74	3.24	1.11	-2.62	-6.31	-2.16	-5.31	-0.39	-1.80	-11.61	1.95	2.45	-1.54	-2.17	**-46.5**
177	3708	2,4,3,6,9,11,17,21,27,26,33,37,40,43,50,54	-4.21	0.14	-10.72	-1.33	1.70	0.25	-1.19	-1.75	0.36	-7.04	0.00	-1.80	-9.76	-10.90	-0.33	2.28	-2.17	**-46.5**
178	1581	1,6,10,15,23,27,28,31,33,37,40,41,44,55	-2.74	-1.67	-5.41	-7.24	1.16	-1.46	-4.77	-3.97	-1.96	-2.05	-0.50	-1.80	-6.47	-6.29	2.45	-1.54	-2.17	**-46.4**
179	2745	2,4,3,6,10,13,17,21,28,31,33,37,40,41,44,55	-2.66	-0.64	-5.83	-3.67	1.99	-0.60	-2.62	-7.42	-3.18	-5.43	0.18	-1.80	-6.38	-4.31	-0.33	-1.54	-2.17	**-46.4**
180	3584	2,4,3,6,9,11,17,18,20,23,27,28,34,35,37,40,43,50,54	-4.21	0.66	-12.13	0.15	4.34	-1.46	-3.34	1.01	2.30	-2.42	-0.70	-1.80	-12.90	-11.89	-0.33	-1.54	-2.17	**-46.4**
181	4325	2,4,7,11,17,21,28,31,33,37,40,43,47,49,53,54	-4.57	-0.38	-11.34	-1.13	3.00	0.25	-1.19	5.14	-3.06	-5.92	-0.18	0.11	-10.75	-9.58	-3.11	-1.54	-2.17	**-46.4**
182	1458	1,6,10,13,17,21,27,26,31,34,35,37,42,49,53,54	-4.34	-0.38	-11.39	-3.37	2.88	-0.60	-3.34	-4.23	-1.86	-7.34	0.15	0.11	-10.93	-4.31	2.45	2.28	-2.17	**-46.4**
183	3064	2,4,3,6,10,16,20,23,26,33,37,42,49,53,54	-4.61	-1.41	-12.85	-1.62	2.65	-3.18	-4.77	-1.87	-0.92	-4.55	-0.36	0.11	-13.76	0.96	-0.33	2.28	-2.17	**-46.4**
184	4168	2,4,7,11,17,18,20,23,26,33,37,42,49,53,54	-4.76	-1.41	-12.20	-0.43	1.58	-3.18	-2.62	7.90	0.50	-4.92	-0.38	0.11	-13.00	-10.57	-3.11	2.28	-2.17	**-46.4**
185	4679	2,4,7,9,10,15,23,26,33,37,40,43,47,49,53,54	-4.30	0.14	-10.95	-5.53	1.44	-1.46	-4.06	3.22	-1.50	-4.43	-0.62	0.11	-10.49	-4.97	-3.11	2.28	-2.17	**-46.4**
186	2011	1,6,9,11,13,15,23,27,28,34,35,37,42,47,50,54	-4.36	-0.38	-10.65	-3.80	4.16	-0.60	-4.06	1.69	1.38	-2.14	-0.86	-1.80	-10.72	-12.87	2.45	-1.54	-2.17	**-46.3**
187	574	1,3,7,11,17,21,28,31,33,37,42,49,53,54	-4.90	-1.41	-11.54	-1.87	2.54	-0.60	-1.19	5.54	-3.06	-6.15	-0.18	0.11	-11.23	-9.58	1.06	-1.54	-2.17	**-46.2**
188	928	1,3,7,9,10,15,23,26,33,37,42,49,53,54	-4.63	-0.90	-11.16	-6.27	0.98	-2.32	-4.06	3.62	-1.50	-4.66	-0.62	0.11	-10.97	-4.97	1.06	2.28	-2.17	**-46.2**
189	2793	2,4,3,6,10,15,23,26,31,34,35,37,40,43,47,49,53,54	-4.00	1.18	-10.73	-4.89	3.29	-1.46	-5.49	-1.58	-0.64	-4.45	-0.47	0.11	-10.45	-6.29	-0.33	2.28	-2.17	**-46.1**
190	4592	2,4,7,9,10,13,17,21,27,26,33,37,40,43,50,54	-4.37	0.14	-11.38	-3.38	1.43	0.25	-1.19	-1.91	-0.40	-6.83	-0.20	-1.80	-10.47	-2.99	-3.11	2.28	-2.17	**-46.1**
191	2325	1,6,9,11,17,18,20,23,27,28,31,33,37,42,47,50,54	-4.27	-0.64	-12.25	-0.33	2.30	-0.60	-2.62	1.41	1.09	-1.89	-0.66	-1.80	-12.67	-11.89	2.45	-1.54	-2.17	**-46.1**
192	2587	2,4,3,6,10,13,17,18,20,23,26,33,37,40,43,47,49,53,54	-3.98	0.66	-12.39	-1.02	1.64	-1.46	-4.06	-1.87	-0.92	-4.35	-0.27	0.11	-12.65	-5.30	-0.33	2.28	-2.17	**-46.1**
193	3867	2,4,7,11,13,15,23,27,28,34,35,37,42,47,50,54	-4.62	-0.38	-10.77	-3.50	4.61	-1.46	-3.34	6.10	1.69	-2.19	-1.02	-1.80	-11.03	-11.56	-3.11	-1.54	-2.17	**-46.1**
194	3731	2,4,3,6,9,11,17,21,28,34,35,37,40,43,47,49,53,54	-4.22	0.66	-11.08	-0.50	4.84	0.25	-2.62	0.33	-2.17	-6.09	-0.04	0.11	-10.61	-10.90	-0.33	-1.54	-2.17	**-46.1**
195	4468	2,4,7,9,10,13,17,18,20,23,27,28,34,35,37,40,43,50,54	-4.36	0.66	-12.79	-1.89	4.08	-1.46	-3.34	0.85	1.54	-2.21	-0.90	-1.80	-13.60	-3.98	-3.11	-1.54	-2.17	**-46.0**
196	3560	2,4,3,6,9,11,17,18,20,23,26,33,37,40,43,50,54	-4.23	0.14	-11.85	-0.10	1.53	-1.46	-2.62	1.01	2.51	-4.38	-0.42	-1.80	-12.19	-11.89	-0.33	2.28	-2.17	**-46.0**
197	2996	2,4,3,6,10,16,18,21,28,34,35,37,40,43,50,54	-4.55	0.14	-11.91	-2.80	5.53	0.25	-3.34	-6.71	-0.95	-5.54	-0.40	-1.80	-11.78	1.95	-0.33	-1.54	-2.17	**-46.0**
198	2843	2,4,3,6,10,15,23,27,28,34,35,37,40,41,44,55	-2.65	-0.64	-5.27	-6.31	3.46	-2.32	-5.49	-4.37	-0.75	-2.27	-0.51	-1.80	-6.65	-6.29	-0.33	-1.54	-2.17	**-45.9**
199	1310	1,6,10,13,17,18,20,23,26,31,34,35,37,42,49,53,54	-4.36	-0.38	-12.52	-2.13	2.71	-2.32	-4.77	-1.47	0.28	-4.68	-0.27	0.11	-13.36	-5.30	2.45	2.28	-2.17	**-45.9**
200	3077	2,4,3,6,10,16,20,23,27,28,31,33,37,42,47,50,54	-4.37	-0.64	-13.02	-1.23	3.82	-1.46	-4.06	-3.95	-0.01	-1.57	-0.80	-1.80	-13.74	0.96	-0.33	-1.54	-2.17	**-45.9**
201	4181	2,4,7,11,17,18,20,23,27,28,31,33,37,42,47,50,54	-4.52	-0.64	-12.37	-0.04	2.75	-1.46	-1.91	5.81	1.41	-1.94	-0.82	-1.80	-12.98	-10.57	-3.11	-1.54	-2.17	**-45.9**
202	1987	1,6,9,11,13,15,23,26,33,37,42,47,50,54	-4.38	-0.90	-10.37	-4.04	1.35	-0.60	-3.34	1.69	1.59	-4.10	-0.58	-1.80	-10.01	-12.87	2.45	2.28	-2.17	**-45.8**
203	2706	2,4,3,6,10,13,17,21,27,26,31,34,35,37,40,43,50,54	-4.07	1.18	-11.16	-2.74	3.28	0.25	-2.62	-6.71	0.46	-6.85	-0.04	-1.80	-10.43	-4.31	-0.33	2.28	-2.17	**-45.8**
204	1836	1,6,10,16,20,23,27,28,34,35,37,42,49,53,54	-4.76	-1.93	-13.21	-2.20	4.97	-2.32	-5.49	-1.47	-1.13	-2.62	-0.65	0.11	-14.69	0.96	2.45	-1.54	-2.17	**-45.7**
205	4615	2,4,7,9,10,13,17,21,28,34,35,37,40,43,47,49,53,54	-4.37	0.66	-11.74	-2.54	4.58	0.25	-2.62	0.18	-2.93	-5.88	-0.24	0.11	-11.32	-2.99	-3.11	-1.54	-2.17	**-45.7**
206	4846	2,4,7,9,10,16,18,21,28,31,33,37,42,49,53,54	-4.66	-0.38	-12.07	-3.25	3.80	-1.46	-2.62	0.18	-4.14	-5.83	-0.27	0.11	-11.51	3.26	-3.11	-1.54	-2.17	**-45.7**
207	941	1,3,7,9,10,15,23,27,28,31,33,37,42,47,50,54	-4.39	-0.12	-11.33	-5.87	2.15	-0.60	-3.34	1.54	-0.59	-1.68	-1.06	-1.80	-10.95	-4.97	1.06	-1.54	-2.17	**-45.7**
208	3843	2,4,7,11,13,15,23,26,33,37,42,47,50,54	-4.64	-0.90	-10.49	-3.75	1.80	-1.46	-2.62	6.10	1.90	-4.15	-0.73	-1.80	-10.32	-11.56	-3.11	2.28	-2.17	**-45.6**
209	1822	1,6,10,16,20,23,27,28,31,33,37,40,43,50,54	-4.58	-1.41	-13.12	-2.50	3.07	-0.60	-4.06	-3.55	-0.01	-1.90	-0.83	-1.80	-14.01	0.96	2.45	-1.54	-2.17	**-45.6**
210	1737	1,6,10,16,18,21,28,31,33,37,42,47,50,54	-4.61	-1.15	-12.03	-3.29	3.49	1.11	-2.62	-6.31	-2.16	-5.01	-0.37	-1.80	-11.56	1.95	2.45	-1.54	-2.17	**-45.6**
211	3711	2,4,3,6,9,11,17,21,27,26,33,37,42,47,50,54	-4.18	-0.12	-10.71	-0.88	1.95	0.25	-1.19	-1.75	0.36	-6.73	0.03	-1.80	-9.71	-10.90	-0.33	2.28	-2.17	**-45.6**
212	4650	2,4,7,9,10,15,23,26,31,34,35,37,40,43,50,54	-4.40	0.66	-10.85	-6.01	2.90	-1.46	-4.06	1.14	2.03	-4.27	-0.81	-1.80	-10.70	-4.97	-3.11	2.28	-2.17	**-45.6**
213	1997	1,6,9,11,13,15,23,27,28,31,33,37,40,43,47,49,53,54	-4.01	0.40	-10.56	-3.77	2.45	-0.60	-4.06	3.78	-2.15	-2.45	-0.62	0.11	-9.98	-12.87	2.45	-1.54	-2.17	**-45.6**
214	4444	2,4,7,9,10,13,17,18,20,23,26,33,37,40,43,50,54	-4.38	0.14	-12.51	-2.14	1.26	-1.46	-2.62	0.85	1.74	-4.17	-0.62	-1.80	-12.90	-3.98	-3.11	2.28	-2.17	**-45.6**
215	3210	2,4,3,6,9,11,13,15,23,26,31,34,35,37,42,49,53,54	-4.14	0.92	-10.19	-3.37	3.50	-3.18	-4.77	3.38	0.47	-4.94	-0.33	0.11	-9.93	-12.87	-0.33	2.28	-2.17	**-45.6**
216	3587	2,4,3,6,9,11,17,18,20,23,27,28,34,35,37,42,47,50,54	-4.18	0.40	-12.12	0.60	4.59	-1.46	-3.34	1.01	2.30	-2.11	-0.68	-1.80	-12.85	-11.89	-0.33	-1.54	-2.17	**-45.6**
217	864	1,3,7,9,10,13,17,21,28,34,35,37,42,49,53,54	-4.70	-0.38	-11.95	-3.28	4.12	-0.60	-2.62	0.58	-2.93	-6.11	-0.24	0.11	-11.80	-2.99	1.06	-1.54	-2.17	**-45.5**
218	2819	2,4,3,6,10,15,23,26,33,37,40,41,44,55	-2.67	-1.15	-5.00	-6.55	0.64	-2.32	-4.77	-4.37	-0.54	-4.24	-0.23	-1.80	-5.94	-6.29	-0.33	2.28	-2.17	**-45.5**
219	1483	1,6,10,13,17,21,27,26,33,37,40,43,47,49,53,54	-4.14	-0.38	-11.35	-3.08	1.31	1.11	-2.62	-4.23	-3.07	-7.04	0.13	0.11	-10.45	-4.31	2.45	2.28	-2.17	**-45.4**
220	3853	2,4,7,11,13,15,23,27,28,31,33,37,40,43,47,49,53,54	-4.27	0.40	-10.68	-3.47	2.90	-1.46	-3.34	8.18	-1.84	-2.51	-0.77	0.11	-10.29	-11.56	-3.11	-1.54	-2.17	**-45.4**

Westar Energy- JEC to East Manhattan
345/230 kV Transmission Line Project
Table F-3: Weighted, Sorted Z-scores for All Routes

Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
221	1359	1,6,10,13,17,18,20,23,27,28,34,35,37,40,43,47,49,53,54	-4.14	0.14	-12.75	-1.60	3.96	-0.60	-4.77	-1.47	-1.13	-2.42	-0.57	0.11	-13.58	-5.30	2.45	-1.54	-2.17	**-45.4**
222	850	1,3,7,9,10,13,17,21,28,31,33,37,40,43,50,54	-4.52	0.14	-11.85	-3.58	2.22	1.11	-1.19	-1.51	-1.82	-5.40	-0.42	-1.80	-11.13	-2.99	1.06	-1.54	-2.17	**-45.4**
223	2456	1,6,9,11,17,21,27,26,33,37,40,43,50,54	-4.39	-0.90	-10.81	-2.16	1.19	1.11	-1.19	-1.35	0.36	-7.07	-0.01	-1.80	-9.98	-10.90	2.45	2.28	-2.17	**-45.3**
224	2558	2,4,3,6,10,13,17,18,20,23,26,31,34,35,37,40,43,50,54	-4.09	1.18	-12.29	-1.50	3.11	-1.46	-4.06	-3.95	2.61	-4.19	-0.46	-1.80	-12.86	-5.30	-0.33	2.28	-2.17	**-45.3**
225	1493	1,6,10,13,17,21,28,31,33,37,40,41,44,55	-2.83	-1.67	-5.92	-4.50	1.48	0.25	-2.62	-7.02	-3.18	-5.46	0.17	-1.80	-6.60	-4.31	2.45	-1.54	-2.17	**-45.3**
226	2332	1,6,9,11,17,18,20,23,27,28,34,35,37,40,43,50,54	-4.39	-0.38	-12.22	-0.68	3.84	-0.60	-3.34	1.41	2.30	-2.45	-0.71	-1.80	-13.12	-11.89	2.45	-1.54	-2.17	**-45.3**
227	1812	1,6,10,16,20,23,26,33,37,42,49,53,54	-4.78	-2.45	-12.94	-2.44	2.15	-2.32	-4.77	-1.47	-0.92	-4.58	-0.37	0.11	-13.98	0.96	2.45	2.28	-2.17	**-45.3**
228	4595	2,4,7,9,10,13,17,21,27,26,33,37,42,47,50,54	-4.33	-0.12	-11.37	-2.92	1.68	0.25	-1.19	-1.91	-0.40	-6.53	-0.17	-1.80	-10.42	-2.99	-3.11	2.28	-2.17	**-45.2**
229	102	1,3,7,11,13,15,23,27,28,31,33,37,42,49,53,54	-4.60	-0.64	-10.89	-4.21	2.44	-2.32	-3.34	8.58	-1.84	-2.73	-0.77	0.11	-10.77	-11.56	1.06	-1.54	-2.17	**-45.2**
230	4471	2,4,7,9,10,13,17,18,20,23,27,28,34,35,37,42,47,50,54	-4.33	0.40	-12.77	-1.44	4.33	-1.46	-3.34	0.85	1.54	-1.90	-0.88	-1.80	-13.56	-3.98	-3.11	-1.54	-2.17	**-45.2**
231	4312	2,4,7,11,17,21,27,26,33,37,40,43,50,54	-4.65	-0.90	-10.93	-1.86	1.64	0.25	-0.47	3.05	0.68	-7.12	-0.16	-1.80	-10.29	-9.58	-3.11	2.28	-2.17	**-45.1**
232	3563	2,4,3,6,9,11,17,18,20,23,26,33,37,42,47,50,54	-4.20	-0.12	-11.84	0.36	1.78	-1.46	-2.62	1.01	2.51	-4.07	-0.39	-1.80	-12.14	-11.89	-0.33	2.28	-2.17	**-45.1**
233	3084	2,4,3,6,10,16,20,23,27,28,34,35,37,40,43,50,54	-4.49	-0.38	-12.98	-1.57	5.36	-1.46	-4.77	-3.95	1.19	-2.13	-0.85	-1.80	-14.19	0.96	-0.33	-1.54	-2.17	**-45.1**
234	4188	2,4,7,11,17,18,20,23,27,28,34,35,37,40,43,50,54	-4.64	-0.38	-12.34	-0.38	4.29	-1.46	-2.62	5.81	2.61	-2.50	-0.86	-1.80	-13.43	-10.57	-3.11	-1.54	-2.17	**-45.1**
235	2999	2,4,3,6,10,16,18,21,28,34,35,37,42,47,50,54	-4.52	-0.12	-11.90	-2.35	5.78	0.25	-3.34	-6.71	-0.95	-5.23	-0.38	-1.80	-11.74	1.95	-0.33	-1.54	-2.17	**-45.1**
236	3259	2,4,3,6,9,11,13,15,23,27,28,34,35,37,40,43,47,49,53,54	-3.92	1.44	-10.42	-2.84	4.74	-1.46	-4.77	3.38	-0.95	-2.68	-0.63	0.11	-10.15	-12.87	-0.33	-1.54	-2.17	**-45.1**
237	1541	1,6,10,15,23,26,31,34,35,37,40,43,47,49,53,54	-4.18	0.14	-10.82	-5.71	2.78	-0.60	-5.49	-1.18	-0.64	-4.48	-0.48	0.11	-10.67	-6.29	2.45	2.28	-2.17	**-45.0**
238	1335	1,6,10,13,17,18,20,23,26,33,37,40,43,47,49,53,54	-4.16	-0.38	-12.48	-1.84	1.14	-0.60	-4.06	-1.47	-0.92	-4.38	-0.29	0.11	-12.88	-5.30	2.45	2.28	-2.17	**-44.9**
239	2479	1,6,9,11,17,21,28,34,35,37,40,43,47,49,53,54	-4.40	-0.38	-11.17	-1.32	4.34	1.11	-2.62	0.73	-2.17	-6.12	-0.05	0.11	-10.84	-10.90	2.45	-1.54	-2.17	**-44.9**
240	2709	2,4,3,6,10,13,17,21,27,26,31,34,35,37,42,47,50,54	-4.04	0.92	-11.15	-2.29	3.53	0.25	-2.62	-6.71	0.46	-6.55	-0.02	-1.80	-10.38	-4.31	-0.33	2.28	-2.17	**-44.9**
241	2976	2,4,3,6,10,16,18,21,27,26,33,37,42,49,53,54	-4.34	-0.38	-11.54	-2.86	2.82	-1.46	-3.34	-4.63	-3.07	-7.21	0.09	0.11	-10.81	1.95	-0.33	2.28	-2.17	**-44.9**
242	3573	2,4,3,6,9,11,17,18,20,23,27,28,31,33,37,40,43,47,49,53,54	-3.82	1.18	-12.02	0.63	2.88	-1.46	-3.34	3.09	-1.23	-2.43	-0.43	0.11	-12.10	-11.89	-0.33	-1.54	-2.17	**-44.9**
243	948	1,3,7,9,10,15,23,27,28,34,35,37,40,43,50,54	-4.51	0.14	-11.29	-6.22	3.69	-0.60	-4.06	1.54	0.61	-2.24	-1.11	-1.80	-11.40	-4.97	1.06	-1.54	-2.17	**-44.9**
244	2308	1,6,9,11,17,18,20,23,26,33,37,40,43,50,54	-4.41	-0.90	-11.94	-0.92	1.02	-0.60	-2.62	1.41	2.51	-4.41	-0.43	-1.80	-12.41	-11.89	2.45	2.28	-2.17	**-44.8**
245	1744	1,6,10,16,18,21,28,34,35,37,40,43,50,54	-4.72	-0.90	-12.00	-3.63	5.03	1.11	-3.34	-6.31	-0.95	-5.57	-0.41	-1.80	-12.01	1.95	2.45	-1.54	-2.17	**-44.8**
246	4934	2,4,7,9,10,16,20,23,27,28,31,33,37,42,49,53,54	-4.60	-0.90	-13.14	-2.01	3.63	-3.18	-4.06	2.94	-2.00	-2.42	-0.72	0.11	-13.92	2.28	-3.11	-1.54	-2.17	**-44.8**
247	1591	1,6,10,15,23,27,28,34,35,37,40,41,44,55	-2.82	-1.67	-5.36	-7.13	2.95	-1.46	-5.49	-3.97	-0.75	-2.30	-0.52	-1.80	-6.87	-6.29	2.45	-1.54	-2.17	**-44.8**
248	1825	1,6,10,16,20,23,27,28,31,33,37,42,47,50,54	-4.55	-1.67	-13.11	-2.05	3.32	-0.60	-4.06	-3.55	-0.01	-1.60	-0.81	-1.80	-13.97	0.96	2.45	-1.54	-2.17	**-44.8**
249	2755	2,4,3,6,10,13,17,21,28,34,35,37,40,41,44,55	-2.74	-0.64	-5.78	-3.56	3.77	-0.60	-3.34	-7.42	-1.97	-5.69	0.15	-1.80	-6.78	-4.31	-0.33	-1.54	-2.17	**-44.8**
250	4335	2,4,7,11,17,21,28,34,35,37,40,43,47,49,53,54	-4.65	-0.38	-11.29	-1.02	4.78	0.25	-1.91	5.14	-1.86	-6.17	-0.20	0.11	-11.15	-9.58	-3.11	-1.54	-2.17	**-44.7**
251	4653	2,4,7,9,10,15,23,26,31,34,35,37,42,47,50,54	-4.37	0.40	-10.84	-5.56	3.15	-1.46	-4.06	1.14	2.03	-3.97	-0.79	-1.80	-10.65	-4.97	-3.11	2.28	-2.17	**-44.7**
252	4447	2,4,7,9,10,13,17,18,20,23,26,33,37,42,47,50,54	-4.35	-0.12	-12.50	-1.69	1.51	-1.46	-2.62	0.85	1.74	-3.87	-0.59	-1.80	-12.85	-3.98	-3.11	2.28	-2.17	**-44.7**
253	1454	1,6,10,13,17,21,27,26,31,34,35,37,40,43,47,50,54	-4.25	0.14	-11.25	-3.56	2.77	1.11	-2.62	-6.31	0.46	-6.88	-0.06	-1.80	-10.65	-4.31	2.45	2.28	-2.17	**-44.7**
254	3060	2,4,3,6,10,16,20,23,26,33,37,40,43,50,54	-4.51	-0.90	-12.71	-1.81	2.55	-1.46	-4.06	-3.95	1.40	-4.09	-0.56	-1.80	-13.48	0.96	-0.33	2.28	-2.17	**-44.6**
255	4164	2,4,7,11,17,18,20,23,26,33,37,40,43,50,54	-4.66	-0.90	-12.06	-0.62	1.47	-1.46	-1.91	5.81	2.82	-4.46	-0.58	-1.80	-12.72	-10.57	-3.11	2.28	-2.17	**-44.6**
256	3235	2,4,3,6,9,11,13,15,23,26,33,37,40,43,47,49,53,54	-3.94	0.92	-10.14	-3.08	1.93	-1.46	-4.06	3.38	-0.74	-4.64	-0.35	0.11	-9.45	-12.87	-0.33	2.28	-2.17	**-44.6**
257	853	1,3,7,9,10,13,17,21,28,31,33,37,42,47,50,54	-4.49	-0.12	-11.84	-3.13	2.47	1.11	-1.19	-1.51	-1.82	-5.09	-0.40	-1.80	-11.08	-2.99	1.06	-1.54	-2.17	**-44.5**
258	584	1,3,7,11,17,21,28,34,35,37,42,49,53,54	-4.98	-1.41	-11.50	-1.76	4.33	-0.60	-1.91	5.54	-1.86	-6.40	-0.20	0.11	-11.63	-9.58	1.06	-1.54	-2.17	**-44.5**
259	4457	2,4,7,9,10,13,17,18,20,23,27,28,31,33,37,40,43,47,49,53,54	-3.98	1.18	-12.68	-1.41	2.62	-1.46	-3.34	2.94	-2.00	-2.22	-0.63	0.11	-12.81	-3.98	-3.11	-1.54	-2.17	**-44.5**
260	2459	1,6,9,11,17,21,27,26,33,37,42,47,50,54	-4.36	-1.15	-10.80	-1.71	1.44	1.11	-1.19	-1.35	0.36	-6.76	0.01	-1.80	-9.94	-10.90	2.45	2.28	-2.17	**-44.5**
261	570	1,3,7,11,17,21,28,31,33,37,40,43,50,54	-4.80	-0.90	-11.40	-2.07	2.43	1.11	-0.47	3.45	-0.74	-5.69	-0.38	-1.80	-10.96	-9.58	1.06	-1.54	-2.17	**-44.4**
262	1958	1,6,9,11,13,15,23,26,31,34,35,37,42,49,53,54	-4.32	-0.12	-10.28	-4.19	2.99	-2.32	-4.77	3.78	0.47	-4.97	-0.35	0.11	-10.15	-12.87	2.45	2.28	-2.17	**-44.4**
263	2561	2,4,3,6,10,13,17,18,20,23,26,31,34,35,37,42,47,50,54	-4.05	0.92	-12.28	-1.05	3.36	-1.46	-4.06	-3.95	2.61	-3.89	-0.44	-1.80	-12.81	-5.30	-0.33	2.28	-2.17	**-44.4**
264	2335	1,6,9,11,17,18,20,23,27,28,34,35,37,42,47,50,54	-4.35	-0.64	-12.20	-0.22	4.09	-0.60	-3.34	1.41	2.30	-2.14	-0.69	-1.80	-13.07	-11.89	2.45	-1.54	-2.17	**-44.4**
265	924	1,3,7,9,10,15,23,26,33,37,40,43,50,54	-4.53	-0.38	-11.02	-6.46	0.88	-0.60	-3.34	1.54	0.82	-4.20	-0.83	-1.80	-10.70	-4.97	1.06	2.28	-2.17	**-44.4**
266	2985	2,4,3,6,10,16,18,21,28,31,33,37,40,43,47,49,53,54	-4.16	0.66	-11.80	-2.32	4.07	0.25	-3.34	-4.63	-4.48	-5.55	-0.13	0.11	-10.99	1.95	-0.33	-1.54	-2.17	**-44.4**
267	1567	1,6,10,15,23,26,33,37,40,41,44,55	-2.84	-2.19	-5.09	-7.37	0.14	-1.46	-4.77	-3.97	-0.54	-4.27	-0.24	-1.80	-6.17	-6.29	2.45	2.28	-2.17	**-44.3**
268	4315	2,4,7,11,17,21,27,26,33,37,42,47,50,54	-4.61	-1.15	-10.92	-1.41	1.89	0.25	-0.47	3.05	0.68	-6.82	-0.14	-1.80	-10.25	-9.58	-3.11	2.28	-2.17	**-44.3**
269	706	1,3,7,9,10,13,17,18,20,23,27,28,31,33,37,42,49,53,54	-4.31	0.14	-12.89	-2.15	2.16	-2.32	-3.34	3.34	-2.00	-2.45	-0.63	0.11	-13.30	-3.98	1.06	-1.54	-2.17	**-44.3**
270	3814	2,4,7,11,13,15,23,26,31,34,35,37,42,49,53,54	-4.57	-0.12	-10.40	-3.90	3.44	-3.18	-4.06	8.18	0.78	-5.02	-0.50	0.11	-10.46	-11.56	-3.11	2.28	-2.17	**-44.2**
271	3087	2,4,3,6,10,16,20,23,27,28,34,35,37,42,47,50,54	-4.45	-0.64	-12.97	-1.12	5.61	-1.46	-4.77	-3.95	1.19	-1.82	-0.82	-1.80	-14.14	0.96	-0.33	-1.54	-2.17	**-44.2**
272	4191	2,4,7,11,17,18,20,23,27,28,34,35,37,42,47,50,54	-4.61	-0.64	-12.32	0.07	4.54	-1.46	-2.62	5.81	2.61	-2.19	-0.84	-1.80	-13.38	-10.57	-3.11	-1.54	-2.17	**-44.2**
273	3682	2,4,3,6,9,11,17,21,27,26,31,34,35,37,42,49,53,54	-4.12	0.66	-10.61	-1.03	3.59	-1.46	-2.62	0.33	-0.76	-7.60	0.26	0.11	-9.85	-10.90	-0.33	2.28	-2.17	**-44.2**
274	2872	2,4,3,6,10,15,23,27,28,34,38,43,50,54	-4.75	-0.90	-11.71	-5.50	7.57	-2.32	-4.77	-2.19	1.56	-2.05	-1.12	-1.80	-12.28	-6.29	-0.33	-1.54	4.21	**-44.2**
275	1306	1,6,10,13,17,18,20,23,26,31,34,35,37,40,43,50,54	-4.26	0.14	-12.38	-2.33	2.60	-0.60	-4.06	-3.55	2.61	-4.22	-0.48	-1.80	-13.08	-5.30	2.45	2.28	-2.17	**-44.2**

Table F-3: Weighted, Sorted Z-scores for All Routes

Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
276	4856	2,4,7,9,10,16,18,21,28,34,35,37,42,49,53,54	-4.75	-0.38	-12.02	-3.14	5.59	-1.46	-3.34	0.18	-2.93	-6.08	-0.30	0.11	-11.91	3.26	-3.11	-1.54	-2.17	**-44.0**
277	951	1,3,7,9,10,15,23,27,28,34,35,37,42,47,50,54	-4.47	-0.12	-11.28	-5.76	3.94	-0.60	-4.06	1.54	0.61	-1.93	-1.09	-1.80	-11.35	-4.97	1.06	-1.54	-2.17	**-44.0**
278	2311	1,6,9,11,17,18,20,23,26,33,37,42,47,50,54	-4.37	-1.15	-11.93	-0.47	1.27	-0.60	-2.62	1.41	2.51	-4.10	-0.41	-1.80	-12.37	-11.89	2.45	2.28	-2.17	**-44.0**
279	1832	1,6,10,16,20,23,27,28,34,35,37,40,43,50,54	-4.66	-1.41	-13.07	-2.39	4.86	-0.60	-4.77	-3.55	1.19	-2.16	-0.86	-1.80	-14.41	0.96	2.45	-1.54	-2.17	**-44.0**
280	1747	1,6,10,16,18,21,28,34,35,37,42,47,50,54	-4.69	-1.15	-11.98	-3.18	5.28	1.11	-3.34	-6.31	-0.95	-5.26	-0.39	-1.80	-11.96	1.95	2.45	-1.54	-2.17	**-44.0**
281	2007	1,6,9,11,13,15,23,27,28,34,35,37,40,43,47,49,53,54	-4.10	0.40	-10.51	-3.66	4.24	-0.60	-4.77	3.78	-0.95	-2.71	-0.64	0.11	-10.38	-12.87	2.45	-1.54	-2.17	**-43.9**
282	4842	2,4,7,9,10,16,18,21,28,31,33,37,40,43,50,54	-4.56	0.14	-11.93	-3.44	3.69	0.25	-1.91	-1.91	-1.82	-5.37	-0.48	-1.80	-11.24	3.26	-3.11	-1.54	-2.17	**-43.9**
283	4689	2,4,7,9,10,15,23,27,28,31,33,37,40,41,44,55	-2.66	-0.64	-5.29	-6.94	1.61	-2.32	-4.06	0.43	-1.61	-2.10	-0.59	-1.80	-6.11	-4.97	-3.11	-1.54	-2.17	**-43.9**
284	4566	2,4,7,9,10,13,17,21,27,26,31,34,35,37,42,49,53,54	-4.27	0.66	-11.27	-3.07	3.33	-1.46	-2.62	0.18	-1.52	-7.40	0.06	0.11	-10.56	-2.99	-3.11	2.28	-2.17	**-43.8**
285	3206	2,4,3,6,9,11,13,15,23,26,31,34,35,37,40,43,50,54	-4.04	1.44	-10.05	-3.56	3.39	-1.46	-4.06	1.29	2.79	-4.48	-0.54	-1.80	-9.66	-12.87	-0.33	2.28	-2.17	**-43.8**
286	1457	1,6,10,13,17,21,27,26,31,34,35,37,42,47,50,54	-4.21	-0.12	-11.24	-3.11	3.02	1.11	-2.62	-6.31	0.46	-6.58	-0.03	-1.80	-10.61	-4.31	2.45	2.28	-2.17	**-43.8**
287	3063	2,4,3,6,10,16,20,23,26,33,37,42,47,50,54	-4.48	-1.15	-12.69	-1.36	2.80	-1.46	-4.06	-3.95	1.40	-3.78	-0.54	-1.80	-13.44	0.96	-0.33	2.28	-2.17	**-43.8**
288	4167	2,4,7,11,17,18,20,23,26,33,37,42,47,50,54	-4.63	-1.15	-12.05	-0.17	1.72	-1.46	-1.91	5.81	2.82	-4.16	-0.56	-1.80	-12.68	-10.57	-3.11	2.28	-2.17	**-43.8**
289	1724	1,6,10,16,18,21,27,26,33,37,42,49,53,54	-4.52	-1.41	-11.63	-3.68	2.32	-0.60	-3.34	-4.23	-3.07	-7.24	0.07	0.11	-11.04	1.95	2.45	2.28	-2.17	**-43.8**
290	2321	1,6,9,11,17,18,20,23,27,28,31,33,37,40,43,47,49,53,54	-4.00	0.14	-12.11	-0.19	2.38	-0.60	-3.34	3.49	-1.23	-2.46	-0.45	0.11	-12.33	-11.89	2.45	-1.54	-2.17	**-43.7**
291	3863	2,4,7,11,13,15,23,27,28,34,35,37,40,43,47,49,53,54	-4.35	0.40	-10.63	-3.36	4.69	-1.46	-4.06	8.18	-0.63	-2.76	-0.80	0.11	-10.69	-11.56	-3.11	-1.54	-2.17	**-43.7**
292	3534	2,4,3,6,9,11,17,18,20,23,26,31,34,35,37,42,49,53,54	-4.13	0.66	-11.74	0.21	3.42	-3.18	-4.06	3.09	1.39	-4.94	-0.16	0.11	-12.28	-11.89	-0.33	2.28	-2.17	**-43.7**
293	860	1,3,7,9,10,13,17,21,28,34,35,37,40,43,50,54	-4.60	0.14	-11.81	-3.47	4.01	1.11	-1.91	-1.51	-0.61	-5.65	-0.44	-1.80	-11.53	-2.99	1.06	-1.54	-2.17	**-43.7**
294	3402	2,4,3,6,9,11,13,16,18,21,28,31,33,37,42,49,53,54	-4.30	0.66	-11.26	-0.80	4.28	-1.46	-2.62	0.33	-3.38	-6.03	0.00	0.11	-10.47	-4.64	-0.33	-1.54	-2.17	**-43.6**
295	1503	1,6,10,13,17,21,28,34,35,37,40,41,44,55	-2.92	-1.67	-5.87	-4.39	3.27	0.25	-3.34	-7.02	-1.97	-5.72	0.14	-1.80	-7.00	-4.31	2.45	-1.54	-2.17	**-43.6**
296	573	1,3,7,11,17,21,28,31,33,37,42,47,50,54	-4.77	-1.15	-11.39	-1.62	2.68	1.11	-0.47	3.45	-0.74	-5.38	-0.36	-1.80	-10.91	-9.58	1.06	-1.54	-2.17	**-43.6**
297	2597	2,4,3,6,10,13,17,18,20,23,27,28,31,33,37,40,41,44,55	-2.35	-0.12	-6.73	-2.44	1.81	-2.32	-4.06	-4.66	-1.03	-2.02	-0.24	-1.80	-8.27	-5.30	-0.33	-1.54	-2.17	**-43.6**
298	3073	2,4,3,6,10,16,20,23,27,28,31,33,37,40,43,47,49,53,54	-4.10	0.14	-12.88	-1.09	3.90	-1.46	-4.77	-1.87	-2.34	-2.14	-0.58	0.11	-13.40	0.96	-0.33	-1.54	-2.17	**-43.6**
299	4177	2,4,7,11,17,18,20,23,27,28,31,33,37,40,43,47,49,53,54	-4.26	0.14	-12.23	0.10	2.82	-1.46	-2.62	7.90	-0.92	-2.51	-0.60	0.11	-12.64	-10.57	-3.11	-1.54	-2.17	**-43.6**
300	927	1,3,7,9,10,15,23,26,33,37,42,47,50,54	-4.50	-0.64	-11.00	-6.01	1.13	-0.60	-3.34	1.54	0.82	-3.89	-0.80	-1.80	-10.65	-4.97	1.06	2.28	-2.17	**-43.5**
301	1808	1,6,10,16,20,23,26,33,37,40,43,50,54	-4.68	-1.93	-12.80	-2.64	2.04	-0.60	-4.06	-3.55	1.40	-4.12	-0.58	-1.80	-13.71	0.96	2.45	2.28	-2.17	**-43.5**
302	112	1,3,7,11,13,15,23,27,28,34,35,37,42,49,53,54	-4.68	-0.64	-10.84	-4.10	4.23	-2.32	-4.06	8.58	-0.63	-2.99	-0.80	0.11	-11.17	-11.56	1.06	-1.54	-2.17	**-43.5**
303	1983	1,6,9,11,13,15,23,26,33,37,40,43,47,49,53,54	-4.12	-0.12	-10.23	-3.90	1.42	-0.60	-4.06	3.78	-0.74	-4.67	-0.36	0.11	-9.67	-12.87	2.45	2.28	-2.17	**-43.5**
304	98	1,3,7,11,13,15,23,27,28,31,33,37,40,43,50,54	-4.50	-0.12	-10.74	-4.41	2.34	-0.60	-2.62	6.50	0.49	-2.27	-0.98	-1.80	-10.50	-11.56	1.06	-1.54	-2.17	**-43.4**
305	4418	2,4,7,9,10,13,17,18,20,23,26,31,34,35,37,42,49,53,54	-4.29	0.66	-12.40	-1.83	3.16	-3.18	-4.06	2.94	0.63	-4.74	-0.36	0.11	-12.99	-3.98	-3.11	2.28	-2.17	**-43.3**
306	426	1,3,7,11,17,18,20,23,27,28,31,33,37,42,49,53,54	-4.59	-0.90	-12.44	-0.64	2.37	-2.32	-2.62	8.30	-0.92	-2.74	-0.60	0.11	-13.12	-10.57	1.06	-1.54	-2.17	**-43.3**
307	937	1,3,7,9,10,15,23,27,28,31,33,37,40,43,47,49,53,54	-4.12	0.66	-11.19	-5.73	2.23	-0.60	-4.06	3.62	-2.92	-2.25	-0.84	0.11	-10.61	-4.97	1.06	-1.54	-2.17	**-43.3**
308	3839	2,4,7,11,13,15,23,26,33,37,40,43,47,49,53,54	-4.37	-0.12	-10.35	-3.61	1.87	-1.46	-3.34	8.18	-0.42	-4.72	-0.51	0.11	-9.98	-11.56	-3.11	2.28	-2.17	**-43.3**
309	1309	1,6,10,13,17,18,20,23,26,31,34,35,37,42,47,50,54	-4.23	-0.12	-12.37	-1.87	2.85	-0.60	-4.06	-3.55	2.61	-3.92	-0.45	-1.80	-13.04	-5.30	2.45	2.28	-2.17	**-43.3**
310	1733	1,6,10,16,18,21,28,31,33,37,40,43,47,49,53,54	-4.34	-0.38	-11.89	-3.15	3.57	1.11	-3.34	-4.23	-4.48	-5.58	-0.15	0.11	-11.22	1.95	2.45	-1.54	-2.17	**-43.3**
311	3707	2,4,3,6,9,11,17,21,27,26,33,37,40,43,47,49,53,54	-3.92	0.66	-10.57	-0.74	2.02	0.25	-1.91	0.33	-1.96	-7.30	0.25	0.11	-9.37	-10.90	-0.33	2.28	-2.17	**-43.3**
312	3583	2,4,3,6,9,11,17,18,20,23,27,28,34,35,37,40,43,47,49,53,54	-3.91	1.18	-11.97	0.74	4.67	-1.46	-4.06	3.09	-0.03	-2.68	-0.46	0.11	-12.50	-11.89	-0.33	-1.54	-2.17	**-43.2**
313	2972	2,4,3,6,10,16,18,21,27,26,33,37,40,43,50,54	-4.24	0.14	-11.40	-3.05	2.72	0.25	-2.62	-6.71	-0.74	-6.75	-0.12	-1.80	-10.54	1.95	-0.33	2.28	-2.17	**-43.1**
314	4944	2,4,7,9,10,16,20,23,27,28,34,35,37,42,49,53,54	-4.69	-0.90	-13.09	-1.90	5.41	-3.18	-4.77	2.94	-0.79	-2.67	-0.74	0.11	-14.32	2.28	-3.11	-1.54	-2.17	**-43.1**
315	3717	2,4,3,6,9,11,17,21,28,31,33,37,40,41,44,55	-2.61	-0.64	-5.14	-2.16	2.19	-0.60	-1.91	-2.46	-2.07	-5.72	0.28	-1.80	-5.53	-10.90	-0.33	-1.54	-2.17	**-43.1**
316	1835	1,6,10,16,20,23,27,28,34,35,37,42,47,50,54	-4.63	-1.67	-13.06	-1.94	5.11	-0.60	-4.77	-3.55	1.19	-1.85	-0.84	-1.80	-14.37	0.96	2.45	-1.54	-2.17	**-43.1**
317	2430	1,6,9,11,17,21,27,26,31,34,35,37,42,49,53,54	-4.29	-0.38	-10.70	-1.85	3.09	-0.60	-2.62	0.73	-0.76	-7.63	0.25	0.11	-10.08	-10.90	2.45	2.28	-2.17	**-43.1**
318	88	1,3,7,11,13,15,23,26,33,37,42,49,53,54	-4.70	-1.15	-10.56	-4.35	1.42	-2.32	-3.34	8.58	-0.42	-4.95	-0.51	0.11	-10.47	-11.56	1.06	2.28	-2.17	**-43.1**
319	4930	2,4,7,9,10,16,20,23,27,28,31,33,37,40,43,50,54	-4.50	-0.38	-13.00	-2.20	3.52	-1.46	-3.34	0.85	0.33	-1.96	-0.92	-1.80	-13.65	2.28	-3.11	-1.54	-2.17	**-43.1**
320	1620	1,6,10,15,23,27,28,34,38,43,50,54	-4.92	-1.93	-11.79	-6.32	7.07	-1.46	-4.77	-1.79	1.56	-2.08	-1.13	-1.80	-12.51	-6.29	2.45	-1.54	4.21	**-43.1**
321	4845	2,4,7,9,10,16,18,21,28,31,33,37,42,47,50,54	-4.53	-0.12	-11.91	-2.99	3.94	0.25	-1.91	-1.91	-1.82	-5.06	-0.45	-1.80	-11.19	3.26	-3.11	-1.54	-2.17	**-43.1**
322	2784	2,4,3,6,10,13,17,21,28,34,38,43,50,54	-4.84	-0.90	-12.22	-2.76	7.89	-0.60	-2.62	-5.24	0.34	-5.47	-0.45	-1.80	-12.41	-4.31	-0.33	-1.54	4.21	**-43.0**
323	3209	2,4,3,6,9,11,13,15,23,26,31,34,35,37,42,47,50,54	-4.01	1.18	-10.03	-3.11	3.64	-1.46	-4.06	1.29	2.79	-4.18	-0.51	-1.80	-9.61	-12.87	-0.33	2.28	-2.17	**-43.0**
324	4286	2,4,7,11,17,21,27,26,31,34,35,37,42,49,53,54	-4.55	-0.38	-10.82	-1.56	3.54	-1.46	-1.91	5.14	-0.44	-7.69	0.10	0.11	-10.39	-9.58	-3.11	2.28	-2.17	**-42.9**
325	4591	2,4,7,9,10,13,17,21,27,26,33,37,40,43,47,49,53,54	-4.07	0.66	-11.23	-2.78	1.76	0.25	-1.91	0.18	-2.73	-7.10	0.04	0.11	-10.08	-2.99	-3.11	2.28	-2.17	**-42.9**
326	863	1,3,7,9,10,13,17,21,28,34,35,37,42,47,50,54	-4.57	-0.12	-11.79	-3.02	4.26	1.11	-1.91	-1.51	-0.61	-5.34	-0.42	-1.80	-11.48	-2.99	1.06	-1.54	-2.17	**-42.8**
327	4467	2,4,7,9,10,13,17,18,20,23,27,28,34,35,37,40,43,47,49,53,54	-4.06	1.18	-12.63	-1.30	4.40	-1.46	-4.06	2.94	-0.79	-2.47	-0.66	0.11	-13.21	-3.98	-3.11	-1.54	-2.17	**-42.8**
328	3490	2,4,3,6,9,11,13,16,20,23,27,28,31,33,37,42,49,53,54	-4.24	0.14	-12.34	0.44	4.11	-3.18	-4.06	3.09	-1.23	-2.62	-0.44	0.11	-12.88	-5.63	-0.33	-1.54	-2.17	**-42.8**
329	580	1,3,7,11,17,21,28,34,35,37,40,43,50,54	-4.88	-0.90	-11.35	-1.96	4.22	1.11	-1.19	3.45	0.47	-5.94	-0.41	-1.80	-11.36	-9.58	1.06	-1.54	-2.17	**-42.8**
330	3559	2,4,3,6,9,11,17,18,20,23,26,33,37,40,43,47,49,53,54	-3.93	0.66	-11.70	0.50	1.85	-1.46	-3.34	3.09	0.18	-4.64	-0.17	0.11	-11.80	-11.89	-0.33	2.28	-2.17	**-42.8**

Table F-3: Weighted, Sorted Z-scores for All Routes

		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
331	2995	2,4,3,6,10,16,18,21,28,34,35,37,40,43,47,49,53,54	-4.25	0.66	-11.75	-2.21	5.86	0.25	-4.06	-4.63	-3.28	-5.80	-0.16	0.11	-11.39	1.95	-0.33	-1.54	-2.17	**-42.7**
332	4601	2,4,7,9,10,13,17,21,28,31,33,37,40,41,44,55	-2.76	-0.64	-5.80	-4.20	1.93	-0.60	-1.91	-2.62	-2.84	-5.52	0.08	-1.80	-6.23	-2.99	-3.11	-1.54	-2.17	**-42.7**
333	4920	2,4,7,9,10,16,20,23,26,33,37,42,49,53,54	-4.71	-1.41	-12.82	-2.15	2.60	-3.18	-4.06	2.94	-0.58	-4.63	-0.46	0.11	-13.61	2.28	-3.11	2.28	-2.17	**-42.7**
334	1954	1,6,9,11,13,15,23,26,31,34,35,37,40,43,50,54	-4.22	0.40	-10.14	-4.39	2.89	-0.60	-4.06	1.69	2.79	-4.51	-0.55	-1.80	-9.88	-12.87	2.45	2.28	-2.17	**-42.7**
335	840	1,3,7,9,10,13,17,21,27,26,33,37,42,49,53,54	-4.40	-0.38	-11.44	-3.52	1.30	-0.60	-1.91	0.58	-2.73	-7.32	0.04	0.11	-10.56	-2.99	1.06	2.28	-2.17	**-42.6**
336	1811	1,6,10,16,20,23,26,33,37,42,47,50,54	-4.65	-2.19	-12.78	-2.18	2.29	-0.60	-4.06	-3.55	1.40	-3.81	-0.55	-1.80	-13.66	0.96	2.45	2.28	-2.17	**-42.6**
337	716	1,3,7,9,10,13,17,18,20,23,27,28,34,35,37,40,43,49,53,54	-4.39	0.14	-12.84	-2.04	3.95	-2.32	-4.06	3.34	-0.79	-2.70	-0.66	0.11	-13.70	-3.98	1.06	-1.54	-2.17	**-42.6**
338	2705	2,4,3,6,10,13,17,21,27,26,31,34,35,37,40,43,47,49,53,54	-3.77	1.70	-11.01	-2.15	3.60	0.25	-3.34	-4.63	-1.86	-7.12	0.20	0.11	-10.04	-4.31	-0.33	2.28	-2.17	**-42.6**
339	2282	1,6,9,11,17,18,20,23,26,31,34,35,37,42,49,53,54	-4.31	-0.38	-11.83	-0.62	2.92	-2.32	-4.06	3.49	1.39	-4.97	-0.17	0.11	-12.51	-11.89	2.45	2.28	-2.17	**-42.6**
340	101	1,3,7,11,13,15,23,27,28,31,33,37,42,47,50,54	-4.46	-0.38	-10.73	-3.95	2.59	-0.60	-2.62	6.50	0.49	-1.97	-0.95	-1.80	-10.45	-11.56	1.06	-1.54	-2.17	**-42.6**
341	702	1,3,7,9,10,13,17,18,20,23,27,28,31,33,37,40,43,50,54	-4.21	0.66	-12.75	-2.34	2.05	-0.60	-2.62	1.25	0.33	-1.99	-0.84	-1.80	-13.02	-3.98	1.06	-1.54	-2.17	**-42.5**
342	2150	1,6,9,11,13,16,18,21,28,31,33,37,42,49,53,54	-4.48	-0.38	-11.35	-1.63	3.78	-0.60	-2.62	0.73	-3.38	-6.06	-0.01	0.11	-10.70	-4.64	2.45	-1.54	-2.17	**-42.5**
343	3810	2,4,7,11,13,15,23,26,31,34,35,37,40,43,50,54	-4.48	0.40	-10.26	-4.09	3.34	-1.46	-3.34	6.10	3.11	-4.56	-0.70	-1.80	-10.19	-11.56	-3.11	2.28	-2.17	**-42.5**
344	3678	2,4,3,6,9,11,17,21,27,26,31,35,37,40,43,50,54	-4.02	1.18	-10.47	-1.22	3.49	0.25	-1.91	-1.75	1.57	-7.14	0.06	-1.80	-9.58	-10.90	-0.33	2.28	-2.17	**-42.5**
345	1345	1,6,10,13,17,18,20,23,27,28,31,33,37,40,41,44,55	-2.52	-1.15	-6.82	-3.26	1.31	-1.46	-4.06	-4.26	-1.03	-2.05	-0.25	-1.80	-8.49	-5.30	2.45	-1.54	-2.17	**-42.4**
346	1821	1,6,10,16,20,23,27,28,31,33,37,40,43,47,49,53,54	-4.28	-0.90	-12.97	-1.91	3.40	-0.60	-4.77	-1.47	-2.34	-2.17	-0.59	0.11	-13.62	0.96	2.45	-1.54	-2.17	**-42.4**
347	3034	2,4,3,6,10,16,20,23,26,31,34,35,37,42,49,53,54	-4.41	-0.38	-12.60	-1.51	4.44	-3.18	-5.49	-1.87	0.28	-4.65	-0.30	0.11	-13.58	0.96	-0.33	2.28	-2.17	**-42.4**
348	4138	2,4,7,11,17,18,20,23,26,31,34,35,37,42,49,53,54	-4.56	-0.38	-11.95	-0.32	3.37	-3.18	-3.34	7.90	1.70	-5.03	-0.32	0.11	-12.82	-10.57	-3.11	2.28	-2.17	**-42.4**
349	4649	2,4,7,9,10,15,23,26,31,34,35,37,40,43,47,49,53,54	-4.10	1.18	-10.70	-5.42	3.23	-1.46	-4.77	3.22	-0.30	-4.54	-0.57	0.11	-10.30	-4.97	-3.11	2.28	-2.17	**-42.4**
350	4443	2,4,7,9,10,13,17,18,20,23,26,33,37,40,43,47,49,53,54	-4.08	0.66	-12.36	-1.55	1.59	-1.46	-3.34	2.94	-0.58	-4.44	-0.37	0.11	-12.51	-3.98	-3.11	2.28	-2.17	**-42.4**
351	4006	2,4,7,11,13,16,18,21,28,31,33,37,42,49,53,54	-4.74	-0.38	-11.47	-1.33	4.23	-1.46	-1.91	5.14	-3.06	-6.12	-0.16	0.11	-11.01	-3.32	-3.11	-1.54	-2.17	**-42.3**
352	2975	2,4,3,6,10,16,18,21,27,26,33,37,42,47,50,54	-4.21	-0.12	-11.39	-2.60	2.97	0.25	-2.62	-6.71	-0.74	-6.44	-0.09	-1.80	-10.49	1.95	-0.33	2.28	-2.17	**-42.3**
353	4852	2,4,7,9,10,16,18,21,28,34,35,37,40,43,50,54	-4.65	0.14	-11.88	-3.33	5.48	0.25	-2.62	-1.91	-0.61	-5.62	-0.50	-1.80	-11.64	3.26	-3.11	-1.54	-2.17	**-42.2**
354	4699	2,4,7,9,10,15,23,27,28,34,35,37,40,41,44,55	-2.75	-0.64	-5.24	-6.83	3.40	-2.32	-4.77	0.43	-0.41	-2.36	-0.61	-1.80	-6.51	-4.97	-3.11	-1.54	-2.17	**-42.2**
355	4933	2,4,7,9,10,16,20,23,27,28,31,33,37,42,47,50,54	-4.47	-0.64	-12.99	-1.75	3.77	-1.46	-3.34	0.85	0.33	-1.65	-0.90	-1.80	-13.60	2.28	-3.11	-1.54	-2.17	**-42.2**
356	849	1,3,7,9,10,13,17,21,28,31,33,37,40,43,47,49,53,54	-4.22	0.66	-11.70	-2.99	2.55	1.11	-1.91	0.58	-4.14	-5.66	-0.18	0.11	-10.74	-2.99	1.06	-1.54	-2.17	**-42.2**
357	898	1,3,7,9,10,15,23,26,31,34,35,37,42,49,53,54	-4.43	0.14	-10.91	-6.16	2.77	-2.32	-4.77	3.62	-0.30	-4.76	-0.57	0.11	-10.79	-4.97	1.06	2.28	-2.17	**-42.2**
358	692	1,3,7,9,10,13,17,18,20,23,26,33,37,42,49,53,54	-4.41	-0.38	-12.57	-2.29	1.13	-2.32	-3.34	3.34	-0.58	-4.66	-0.38	0.11	-12.99	-3.98	1.06	2.28	-2.17	**-42.1**
359	2455	1,6,9,11,17,21,27,26,33,37,40,43,47,49,53,54	-4.09	-0.38	-10.66	-1.57	1.52	1.11	-1.91	0.73	-1.96	-7.33	0.23	0.11	-9.59	-10.90	2.45	2.28	-2.17	**-42.1**
360	2840	2,4,3,6,10,15,23,27,28,31,33,37,42,46,48,52,53,54	-1.70	-0.38	-4.67	0.24	-1.95	-3.18	-1.91	-3.66	-3.76	-2.96	0.29	0.11	-8.25	-6.29	-0.33	-1.54	-2.17	**-42.1**
361	3245	2,4,3,6,9,11,13,15,23,27,28,31,33,37,40,41,44,55	-2.30	0.14	-4.48	-4.50	2.10	-2.32	-4.06	0.58	-0.85	-2.31	-0.31	-1.80	-5.07	-12.87	-0.33	-1.54	-2.17	**-42.1**
362	4562	2,4,7,9,10,13,17,21,27,26,31,34,35,37,40,43,50,54	-4.17	1.18	-11.13	-3.27	3.22	0.25	-1.91	-1.91	0.81	-6.94	-0.14	-1.80	-10.29	-2.99	-3.11	2.28	-2.17	**-42.1**
363	2557	2,4,3,6,10,13,17,18,20,23,26,31,34,35,37,40,43,47,49,53,54	-3.79	1.70	-12.14	-0.91	3.43	-1.46	-4.77	-1.87	0.28	-4.46	-0.22	0.11	-12.47	-5.30	-0.33	2.28	-2.17	**-42.1**
364	2331	1,6,9,11,17,18,20,23,27,28,34,35,37,40,43,47,49,53,54	-4.09	0.14	-12.06	-0.08	4.16	-0.60	-4.06	3.49	-0.03	-2.71	-0.47	0.11	-12.73	-11.89	2.45	-1.54	-2.17	**-42.1**
365	1720	1,6,10,16,18,21,27,26,33,37,40,43,50,54	-4.42	-0.90	-11.49	-3.87	2.21	1.11	-2.62	-6.31	-0.74	-6.78	-0.13	-1.80	-10.77	1.95	2.45	2.28	-2.17	**-42.0**
366	3530	2,4,3,6,9,11,17,18,20,23,26,31,34,35,37,40,43,50,54	-4.03	1.18	-11.60	0.01	3.31	-1.46	-3.34	1.01	3.71	-4.48	-0.36	-1.80	-12.01	-11.89	-0.33	2.28	-2.17	**-42.0**
367	2465	1,6,9,11,17,21,28,31,33,37,40,41,44,55	-2.78	-1.67	-5.23	-2.98	1.69	0.25	-1.91	-2.06	-2.07	-5.75	0.27	-1.80	-5.75	-10.90	2.45	-1.54	-2.17	**-42.0**
368	3412	2,4,3,6,9,11,13,16,18,21,28,34,35,37,42,49,53,54	-4.39	0.66	-11.21	-0.69	6.07	-1.46	-3.34	0.33	-2.17	-6.29	-0.02	0.11	-10.87	-4.64	-0.33	-1.54	-2.17	**-42.0**
369	2731	2,4,3,6,10,13,17,21,27,26,33,37,40,41,44,55	-2.44	-0.64	-5.27	-3.81	0.96	-0.60	-2.62	-7.42	-1.76	-6.90	0.44	-1.80	-5.54	-4.31	-0.33	2.28	-2.17	**-41.9**
370	4311	2,4,7,11,17,21,27,26,33,37,40,43,47,49,53,54	-4.35	-0.38	-10.78	-1.27	1.97	0.25	-1.19	5.14	-1.65	-7.39	0.08	0.11	-9.90	-9.58	-3.11	2.28	-2.17	**-41.9**
371	1532	1,6,10,13,17,21,28,34,38,43,50,54	-5.02	-1.93	-12.31	-3.58	7.39	0.25	-2.62	-4.84	0.34	-5.50	-0.46	-1.80	-12.64	-4.31	2.45	-1.54	4.21	**-41.9**
372	583	1,3,7,11,17,21,28,34,35,37,42,47,50,54	-4.85	-1.15	-11.34	-1.51	4.47	1.11	-1.19	3.45	0.47	-5.63	-0.39	-1.80	-11.31	-9.58	1.06	-1.54	-2.17	**-41.9**
373	3398	2,4,3,6,9,11,13,16,18,21,28,31,33,37,40,43,50,54	-4.21	1.18	-11.12	-1.00	4.18	0.25	-1.91	-1.75	-1.05	-5.58	-0.20	-1.80	-10.20	-4.64	-0.33	-1.54	-2.17	**-41.9**
374	2607	2,4,3,6,10,13,17,18,20,23,27,28,34,35,37,40,41,44,55	-2.43	-0.12	-6.68	-2.33	3.60	-2.32	-4.77	-4.66	0.17	-2.27	-0.26	-1.80	-8.67	-5.30	-0.33	-1.54	-2.17	**-41.9**
375	3083	2,4,3,6,10,16,20,23,27,28,34,35,37,40,43,47,49,53,54	-4.19	0.14	-12.83	-0.98	5.69	-1.46	-5.49	-1.87	-1.13	-2.39	-0.60	0.11	-13.80	0.96	-0.33	-1.54	-2.17	**-41.9**
376	4187	2,4,7,11,17,18,20,23,27,28,34,35,37,40,43,47,49,53,54	-4.34	0.14	-12.18	0.21	4.61	-1.46	-3.34	7.90	0.29	-2.76	-0.62	0.11	-13.04	-10.57	-3.11	-1.54	-2.17	**-41.9**
377	2866	2,4,3,6,10,15,23,27,28,34,38,40,42,49,53,54	-4.45	-0.38	-11.56	-5.31	7.68	-2.32	-5.49	-0.11	-0.76	-2.51	-0.88	0.11	-11.93	-6.29	-0.33	-1.54	4.21	**-41.9**
378	1957	1,6,9,11,13,15,23,26,31,34,35,37,42,47,50,54	-4.19	0.14	-10.12	-3.93	3.14	-0.60	-4.06	1.69	2.79	-4.20	-0.53	-1.80	-9.83	-12.87	2.45	2.28	-2.17	**-41.8**
379	4321	2,4,7,11,17,21,28,31,33,37,40,41,44,55	-3.04	-1.67	-5.35	-2.69	2.14	-0.60	-1.19	2.34	-1.76	-5.81	0.11	-1.80	-6.06	-9.58	-3.11	-1.54	-2.17	**-41.8**
380	108	1,3,7,11,13,15,23,27,28,34,35,37,40,43,50,54	-4.58	-0.12	-10.70	-4.30	4.13	-0.60	-3.34	6.50	1.69	-2.53	-1.00	-1.80	-10.90	-11.56	1.06	-1.54	-2.17	**-41.8**
381	4675	2,4,7,9,10,15,23,26,33,37,40,41,44,55	-2.77	-1.15	-4.97	-7.08	0.59	-2.32	-4.06	0.43	-0.20	-4.32	-0.33	-1.80	-5.80	-4.97	-3.11	2.28	-2.17	**-41.7**
382	560	1,3,7,11,17,21,27,26,33,37,42,49,53,54	-4.68	-1.41	-10.99	-2.01	1.51	-0.60	-1.19	5.54	-1.65	-7.61	0.08	0.11	-10.39	-9.58	1.06	2.28	-2.17	**-41.7**
383	705	1,3,7,9,10,13,17,18,20,23,27,28,31,33,37,42,47,50,54	-4.18	0.40	-12.74	-1.89	2.30	-0.60	-2.62	1.25	0.33	-1.68	-0.82	-1.80	-12.98	-3.98	1.06	-1.54	-2.17	**-41.6**
384	436	1,3,7,11,17,18,20,23,27,28,34,35,37,40,43,49,53,54	-4.67	-0.90	-12.39	-0.53	4.16	-2.32	-3.34	8.30	0.29	-2.99	-0.62	0.11	-13.52	-10.57	1.06	-1.54	-2.17	**-41.6**
385	947	1,3,7,9,10,15,23,27,28,34,35,37,40,43,47,49,53,54	-4.21	0.66	-11.14	-5.62	4.02	-0.60	-4.77	3.62	-1.71	-2.50	-0.87	0.11	-11.01	-4.97	1.06	-1.54	-2.17	**-41.6**

Table F-3: Weighted, Sorted Z-scores for All Routes

		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
386	2238	1,6,9,11,13,16,20,23,27,28,31,33,37,42,49,53,54	-4.42	-0.90	-12.42	-0.39	3.61	-2.32	-4.06	3.49	-1.23	-2.65	-0.46	0.11	-13.10	-5.63	2.45	-1.54	-2.17	**-41.6**
387	3813	2,4,7,11,13,15,23,26,31,34,35,37,42,47,50,54	-4.44	0.14	-10.24	-3.64	3.58	-1.46	-3.34	6.10	3.11	-4.26	-0.68	-1.80	-10.14	-11.56	-3.11	2.28	-2.17	**-41.6**
388	2307	1,6,9,11,17,18,20,23,26,33,37,40,43,47,49,53,54	-4.11	-0.38	-11.79	-0.33	1.35	-0.60	-3.34	3.49	0.18	-4.67	-0.19	0.11	-12.02	-11.89	2.45	2.28	-2.17	**-41.6**
389	3681	2,4,3,6,9,11,17,21,27,26,31,34,35,37,42,47,50,54	-3.99	0.92	-10.46	-0.77	3.73	0.25	-1.91	-1.75	1.57	-6.84	0.08	-1.80	-9.53	-10.90	-0.33	2.28	-2.17	**-41.6**
390	1743	1,6,10,16,18,21,28,34,35,37,40,43,47,49,53,54	-4.43	-0.38	-11.84	-3.04	5.36	1.11	-4.06	-4.23	-3.28	-5.83	-0.17	0.11	-11.62	1.95	2.45	-1.54	-2.17	**-41.6**
391	4414	2,4,7,9,10,13,17,18,20,23,26,31,34,35,37,40,43,50,54	-4.19	1.18	-12.26	-2.03	3.05	-1.46	-3.34	0.85	2.95	-4.28	-0.56	-1.80	-12.72	-3.98	-3.11	2.28	-2.17	**-41.6**
392	422	1,3,7,11,17,18,20,23,27,28,31,33,37,40,43,50,54	-4.49	-0.38	-12.30	-0.83	2.26	-0.60	-1.91	6.21	1.41	-2.28	-0.80	-1.80	-12.85	-10.57	1.06	-1.54	-2.17	**-41.6**
393	2789	2,4,3,6,10,15,23,26,31,34,35,37,40,41,44,55	-2.47	-0.12	-4.74	-6.44	2.43	-2.32	-5.49	-4.37	0.67	-4.34	-0.18	-1.80	-5.76	-6.29	-0.33	2.28	-2.17	**-41.4**
394	4094	2,4,7,11,13,16,20,23,27,28,31,33,37,42,49,53,54	-4.68	-0.90	-12.54	-0.09	4.06	-3.18	-3.34	7.90	-0.92	-2.71	-0.61	0.11	-13.41	-4.31	-3.11	-1.54	-2.17	**-41.4**
395	1453	1,6,10,13,17,21,27,26,31,34,35,37,40,43,47,49,53,54	-3.95	0.66	-11.10	-2.97	3.10	1.11	-3.34	-4.23	-1.86	-7.15	0.19	0.11	-10.26	-4.31	2.45	2.28	-2.17	**-41.4**
396	2583	2,4,3,6,10,13,17,18,20,23,26,33,37,40,41,44,55	-2.45	-0.64	-6.40	-2.57	0.79	-2.32	-4.06	-4.66	0.38	-4.24	0.02	-1.80	-7.97	-5.30	-0.33	2.28	-2.17	**-41.4**
397	3059	2,4,3,6,10,16,20,23,26,33,37,40,43,47,49,53,54	-4.21	-0.38	-12.55	-1.22	2.87	-1.46	-4.77	-1.87	-0.92	-4.35	-0.32	0.11	-13.09	0.96	-0.33	2.28	-2.17	**-41.4**
398	4163	2,4,7,11,17,18,20,23,26,33,37,40,43,47,49,53,54	-4.36	-0.38	-11.91	-0.03	1.80	-1.46	-2.62	7.90	0.50	-4.73	-0.34	0.11	-12.33	-10.57	-3.11	2.28	-2.17	**-41.4**
399	3727	2,4,3,6,9,11,17,21,28,34,35,37,40,41,44,55	-2.69	-0.64	-5.09	-2.05	3.98	-0.60	-2.62	-2.46	-0.87	-5.98	0.25	-1.80	-5.93	-10.90	-0.33	-1.54	-2.17	**-41.4**
400	4940	2,4,7,9,10,16,20,23,27,28,34,35,37,40,43,50,54	-4.59	-0.38	-12.95	-2.09	5.31	-1.46	-4.06	0.85	1.54	-2.21	-0.95	-1.80	-14.05	2.28	-3.11	-1.54	-2.17	**-41.4**
401	4855	2,4,7,9,10,16,18,21,28,34,35,37,42,47,50,54	-4.62	-0.12	-11.86	-2.88	5.73	0.25	-2.62	-1.91	-0.61	-5.31	-0.48	-1.80	-11.59	3.26	-3.11	-1.54	-2.17	**-41.4**
402	2426	1,6,9,11,17,21,27,26,31,34,35,37,40,43,50,54	-4.19	0.14	-10.56	-2.05	2.98	1.11	-1.91	-1.35	1.57	-7.17	0.04	-1.80	-9.80	-10.90	2.45	2.28	-2.17	**-41.3**
403	84	1,3,7,11,13,15,23,26,33,37,40,43,50,54	-4.60	-0.64	-10.42	-4.54	1.31	-0.60	-2.62	6.50	1.90	-4.49	-0.72	-1.80	-10.19	-11.56	1.06	2.28	-2.17	**-41.3**
404	1782	1,6,10,16,20,23,26,31,34,35,37,42,49,53,54	-4.59	-1.41	-12.69	-2.33	3.94	-2.32	-5.49	-1.47	0.28	-4.68	-0.32	0.11	-13.80	0.96	2.45	2.28	-2.17	**-41.3**
405	569	1,3,7,11,17,21,28,31,33,37,40,43,47,49,53,54	-4.50	-0.38	-11.25	-1.48	2.76	1.11	-1.19	5.54	-3.06	-5.95	-0.14	0.11	-10.57	-9.58	1.06	-1.54	-2.17	**-41.2**
406	4565	2,4,7,9,10,13,17,21,27,26,31,34,35,37,42,47,50,54	-4.14	0.92	-11.12	-2.81	3.47	0.25	-1.91	-1.91	0.81	-6.63	-0.12	-1.80	-10.24	-2.99	-3.11	2.28	-2.17	**-41.2**
407	412	1,3,7,11,17,18,20,23,26,33,37,42,49,53,54	-4.69	-1.41	-12.12	-0.77	1.34	-2.32	-2.62	8.30	0.50	-4.95	-0.34	0.11	-12.82	-10.57	1.06	2.28	-2.17	**-41.2**
408	923	1,3,7,9,10,15,23,26,33,37,40,43,47,49,53,54	-4.23	0.14	-10.86	-5.87	1.20	-0.60	-4.06	3.62	-1.50	-4.46	-0.59	0.11	-10.31	-4.97	1.06	2.28	-2.17	**-41.2**
409	4832	2,4,7,9,10,16,18,21,27,26,33,37,42,49,53,54	-4.44	-0.38	-11.51	-3.38	2.77	-1.46	-2.62	0.18	-2.73	-7.29	-0.01	0.11	-10.67	3.26	-3.11	2.28	-2.17	**-41.2**
410	4282	2,4,7,11,17,21,27,26,31,34,35,37,40,43,50,54	-4.45	0.14	-10.68	-1.75	3.43	0.25	-1.19	3.05	1.88	-7.23	-0.11	-1.80	-10.11	-9.58	-3.11	2.28	-2.17	**-41.1**
411	1723	1,6,10,16,18,21,27,26,33,37,42,47,50,54	-4.39	-1.15	-11.47	-3.42	2.46	1.11	-2.62	-6.31	-0.74	-6.47	-0.11	-1.80	-10.72	1.95	2.45	2.28	-2.17	**-41.1**
412	3533	2,4,3,6,9,11,17,18,20,23,26,31,34,35,37,42,47,50,54	-4.00	0.92	-11.59	0.47	3.56	-1.46	-3.34	1.01	3.71	-4.18	-0.34	-1.80	-11.96	-11.89	-0.33	2.28	-2.17	**-41.1**
413	3500	2,4,3,6,9,11,13,16,20,23,27,28,34,35,37,42,49,53,54	-4.33	0.14	-12.29	0.54	5.90	-3.18	-4.77	3.09	-0.03	-2.88	-0.47	0.11	-13.28	-5.63	-0.33	-1.54	-2.17	**-41.1**
414	4611	2,4,7,9,10,13,17,21,28,34,35,37,40,41,44,55	-2.84	-0.64	-5.75	-4.09	3.72	-0.60	-2.62	-2.62	-1.63	-5.77	0.05	-1.80	-6.64	-2.99	-3.11	-1.54	-2.17	**-41.0**
415	3486	2,4,3,6,9,11,13,16,20,23,27,28,31,33,37,40,43,50,54	-4.15	0.66	-12.19	0.24	4.01	-1.46	-3.34	1.01	1.09	-2.16	-0.65	-1.80	-12.61	-5.63	-0.33	-1.54	-2.17	**-41.0**
416	3401	2,4,3,6,9,11,13,16,18,21,28,31,33,37,42,47,50,54	-4.17	0.92	-11.11	-0.54	4.43	0.25	-1.91	-1.75	-1.05	-5.27	-0.18	-1.80	-10.15	-4.64	-0.33	-1.54	-2.17	**-41.0**
417	2871	2,4,3,6,10,15,23,27,28,34,38,43,47,49,53,54	-4.45	-0.38	-11.55	-4.91	7.90	-2.32	-5.49	-0.11	-0.76	-2.32	-0.87	0.11	-11.89	-6.29	-0.33	-1.54	4.21	**-41.0**
418	1588	1,6,10,15,23,27,28,31,33,37,42,46,48,52,53,54	-1.88	-1.41	-4.75	-0.59	-2.46	-2.32	-1.91	-3.26	-3.76	-2.98	0.28	0.11	-8.48	-6.29	2.45	-1.54	-2.17	**-41.0**
419	2752	2,4,3,6,10,13,17,21,28,31,33,37,42,46,48,52,53,54	-1.80	-0.38	-5.18	2.98	-1.64	-1.46	0.25	-6.71	-4.98	-6.37	0.96	0.11	-8.38	-4.31	-0.33	-1.54	-2.17	**-41.0**
420	1993	1,6,9,11,13,15,23,27,28,31,33,37,40,41,44,55	-2.48	-0.90	-4.57	-5.32	1.59	-1.46	-4.06	0.98	-0.85	-2.34	-0.33	-1.80	-5.29	-12.87	2.45	-1.54	-2.17	**-41.0**
421	4916	2,4,7,9,10,16,20,23,26,33,37,40,43,50,54	-4.61	-0.90	-12.68	-2.34	2.49	-1.46	-3.34	0.85	1.74	-4.17	-0.66	-1.80	-13.34	2.28	-3.11	2.28	-2.17	**-40.9**
422	1305	1,6,10,13,17,18,20,23,26,31,34,35,37,40,43,47,49,53,54	-3.96	0.66	-12.23	-1.73	2.93	-0.60	-4.77	-1.47	0.28	-4.49	-0.23	0.11	-12.69	-5.30	2.45	2.28	-2.17	**-40.9**
423	836	1,3,7,9,10,13,17,21,27,26,33,37,40,43,50,54	-4.30	0.14	-11.29	-3.72	1.20	1.11	-1.19	-1.51	-0.40	-6.86	-0.16	-1.80	-10.29	-2.99	1.06	2.28	-2.17	**-40.9**
424	111	1,3,7,11,13,15,23,27,28,34,35,37,42,47,50,54	-4.55	-0.38	-10.68	-3.84	4.37	-0.60	-3.34	6.50	1.69	-2.22	-0.98	-1.80	-10.85	-11.56	1.06	-1.54	-2.17	**-40.9**
425	2946	2,4,3,6,10,16,18,21,27,26,31,34,35,37,42,49,53,54	-4.15	0.66	-11.29	-2.75	4.61	-1.46	-4.06	-4.63	-1.86	-7.31	0.14	0.11	-10.63	1.95	-0.33	2.28	-2.17	**-40.9**
426	712	1,3,7,9,10,13,17,18,20,23,27,28,34,35,37,40,43,50,54	-4.29	0.66	-12.70	-2.24	3.84	-0.60	-3.34	1.25	1.54	-2.24	-0.86	-1.80	-13.42	-3.98	1.06	-1.54	-2.17	**-40.8**
427	2278	1,6,9,11,17,18,20,23,26,31,34,35,37,40,43,50,54	-4.21	0.14	-11.69	-0.81	2.81	-0.60	-3.34	1.41	3.71	-4.51	-0.38	-1.80	-12.23	-11.89	2.45	2.28	-2.17	**-40.8**
428	2160	1,6,9,11,13,16,18,21,28,34,35,37,42,49,53,54	-4.57	-0.38	-11.30	-1.52	5.57	-0.60	-3.34	0.73	-2.17	-6.32	-0.04	0.11	-11.10	-4.64	2.45	-1.54	-2.17	**-40.8**
429	1479	1,6,10,13,17,21,27,26,33,37,40,41,44,55	-2.61	-1.67	-5.36	-4.63	0.45	0.25	-2.62	-7.02	-1.76	-6.93	0.42	-1.80	-5.76	-4.31	2.45	2.28	-2.17	**-40.8**
430	3849	2,4,7,11,13,15,23,27,28,31,33,37,40,41,44,55	-2.74	-0.90	-4.69	-5.02	2.04	-2.32	-3.34	5.39	-0.53	-2.39	-0.48	-1.80	-5.60	-11.56	-3.11	-1.54	-2.17	**-40.8**
431	2146	1,6,9,11,13,16,18,21,28,31,33,37,40,43,50,54	-4.38	0.14	-11.21	-1.82	3.67	1.11	-1.91	-1.35	-1.05	-5.60	-0.22	-1.80	-10.42	-4.64	2.45	-1.54	-2.17	**-40.7**
432	1355	1,6,10,13,17,18,20,23,27,28,34,35,37,40,41,44,55	-2.61	-1.15	-6.77	-3.15	3.10	-1.46	-4.77	-4.26	0.17	-2.30	-0.28	-1.80	-8.90	-5.30	2.45	-1.54	-2.17	**-40.7**
433	1831	1,6,10,16,20,23,27,28,34,35,37,40,43,47,49,53,54	-4.36	-0.90	-12.92	-1.80	5.19	-0.60	-5.49	-1.47	-1.13	-2.42	-0.62	0.11	-14.02	0.96	2.45	-1.54	-2.17	**-40.7**
434	4417	2,4,7,9,10,13,17,18,20,23,26,31,34,35,37,42,47,50,54	-4.15	0.92	-12.25	-1.58	3.30	-1.46	-3.34	0.85	2.95	-3.97	-0.54	-1.80	-12.67	-3.98	-3.11	2.28	-2.17	**-40.7**
435	1614	1,6,10,15,23,27,28,34,38,40,42,49,53,54	-4.63	-1.41	-11.65	-6.13	7.18	-1.46	-5.49	0.29	-0.76	-2.54	-0.89	0.11	-12.15	-6.29	2.45	-1.54	4.21	**-40.7**
436	425	1,3,7,11,17,18,20,23,27,28,31,33,37,42,47,50,54	-4.46	-0.64	-12.28	-0.38	2.51	-0.60	-1.91	6.21	1.41	-1.97	-0.78	-1.80	-12.80	-10.57	1.06	-1.54	-2.17	**-40.7**
437	2778	2,4,3,6,10,13,17,21,28,34,38,40,42,49,53,54	-4.55	-0.38	-12.08	-2.56	8.00	-0.60	-3.34	-3.16	-1.98	-5.93	-0.21	0.11	-12.06	-4.31	-0.33	-1.54	4.21	**-40.7**
438	4841	2,4,7,9,10,16,18,21,28,31,33,37,40,43,47,49,53,54	-4.26	0.66	-11.77	-2.85	4.02	0.25	-2.62	0.18	-4.14	-5.63	-0.24	0.11	-10.85	3.26	-3.11	-1.54	-2.17	**-40.7**
439	3476	2,4,3,6,9,11,13,16,20,23,26,33,37,42,49,53,54	-4.35	-0.38	-12.01	0.30	3.09	-3.18	-4.06	3.09	0.18	-4.84	-0.19	0.11	-12.58	-5.63	-0.33	2.28	-2.17	**-40.7**
440	3030	2,4,3,6,10,16,20,23,26,31,34,35,37,40,43,50,54	-4.31	0.14	-12.46	-1.70	4.34	-1.46	-4.77	-3.95	2.61	-4.19	-0.51	-1.80	-13.30	0.96	-0.33	2.28	-2.17	**-40.6**

Westar Energy- JEC to East Manhattan
345/230 kV Transmission Line Project
Table F-3: Weighted, Sorted Z-scores for All Routes

Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
441	4134	2,4,7,11,17,18,20,23,26,31,34,35,37,40,43,50,54	-4.47	0.14	-11.81	-0.51	3.26	-1.46	-2.62	5.81	4.03	-4.57	-0.53	-1.80	-12.54	-10.57	-3.11	2.28	-2.17	**-40.6**
442	4016	2,4,7,11,13,16,18,21,28,34,35,37,42,49,53,54	-4.82	-0.38	-11.42	-1.22	6.02	-1.46	-2.62	5.14	-1.86	-6.37	-0.19	0.11	-11.41	-3.32	-3.11	-1.54	-2.17	**-40.6**
443	3205	2,4,3,6,9,11,13,15,23,26,31,34,35,37,40,43,47,49,53,54	-3.74	1.96	-9.89	-2.97	3.72	-1.46	-4.77	3.38	0.47	-4.74	-0.30	0.11	-9.27	-12.87	-0.33	2.28	-2.17	**-40.6**
444	4002	2,4,7,11,13,16,18,21,28,31,33,37,40,43,50,54	-4.64	0.14	-11.33	-1.52	4.12	0.25	-1.19	3.05	-0.74	-5.66	-0.37	-1.80	-10.73	-3.32	-3.11	-1.54	-2.17	**-40.6**
445	4943	2,4,7,9,10,16,20,23,27,28,34,35,37,42,47,50,54	-4.56	-0.64	-12.94	-1.64	5.56	-1.46	-4.06	0.85	1.54	-1.90	-0.93	-1.80	-14.00	2.28	-3.11	-1.54	-2.17	**-40.5**
446	859	1,3,7,9,10,13,17,21,28,34,35,37,40,43,47,49,53,54	-4.30	0.66	-11.65	-2.88	4.34	1.11	-2.62	0.58	-2.93	-5.91	-0.20	0.11	-11.14	-2.99	1.06	-1.54	-2.17	**-40.5**
447	4728	2,4,7,9,10,15,23,27,28,34,38,43,50,54	-4.85	-0.90	-11.67	-6.03	7.52	-2.32	-4.06	2.61	1.91	-2.14	-1.22	-1.80	-12.14	-4.97	-3.11	-1.54	4.21	**-40.5**
448	1090	1,3,7,9,10,16,18,21,28,31,33,37,42,49,53,54	-4.59	-0.38	-11.98	-3.59	3.56	-0.60	-2.62	0.58	-4.14	-5.86	-0.24	0.11	-11.33	3.26	1.06	-1.54	-2.17	**-40.5**
449	2429	1,6,9,11,17,21,27,26,31,34,35,37,42,47,50,54	-4.16	-0.12	-10.55	-1.60	3.23	1.11	-1.91	-1.35	1.57	-6.87	0.07	-1.80	-9.76	-10.90	2.45	2.28	-2.17	**-40.5**
450	87	1,3,7,11,13,15,23,26,33,37,42,47,50,54	-4.57	-0.90	-10.41	-4.09	1.56	-0.60	-2.62	6.50	1.90	-4.18	-0.70	-1.80	-10.14	-11.56	1.06	2.28	-2.17	**-40.4**
451	2850	2,4,3,6,10,15,23,27,28,34,35,37,42,46,48,52,53,54	-1.79	-0.38	-4.62	0.35	-0.16	-3.18	-2.62	-3.66	-2.55	-3.21	0.26	0.11	-8.66	-6.29	-0.33	-1.54	-2.17	**-40.4**
452	3255	2,4,3,6,9,11,13,15,23,27,28,34,35,37,40,41,44,55	-2.39	0.14	-4.43	-4.39	3.89	-2.32	-4.77	0.58	0.36	-2.56	-0.34	-1.80	-5.47	-12.87	-0.33	-1.54	-2.17	**-40.4**
453	894	1,3,7,9,10,15,23,26,31,34,35,37,40,43,50,54	-4.33	0.66	-10.77	-6.35	2.67	-0.60	-4.06	1.54	2.03	-4.30	-0.77	-1.80	-10.52	-4.97	1.06	2.28	-2.17	**-40.4**
454	688	1,3,7,9,10,13,17,18,20,23,26,33,37,40,43,50,54	-4.32	0.14	-12.43	-2.48	1.02	-0.60	-2.62	1.25	1.74	-4.20	-0.58	-1.80	-12.72	-3.98	1.06	2.28	-2.17	**-40.4**
455	1537	1,6,10,15,23,26,31,34,35,37,40,41,44,55	-2.65	-1.15	-4.83	-7.27	1.93	-1.46	-5.49	-3.97	0.67	-4.37	-0.19	-1.80	-5.99	-6.29	2.45	2.28	-2.17	**-40.3**
456	1331	1,6,10,13,17,18,20,23,26,33,37,40,41,44,55	-2.63	-1.67	-6.49	-3.39	0.28	-1.46	-4.06	-4.26	0.38	-4.27	0.01	-1.80	-8.19	-5.30	2.45	2.28	-2.17	**-40.3**
457	1807	1,6,10,16,20,23,26,33,37,40,43,47,49,53,54	-4.39	-1.41	-12.64	-2.04	2.37	-0.60	-4.77	-1.47	-0.92	-4.38	-0.33	0.11	-13.32	0.96	2.45	2.28	-2.17	**-40.3**
458	2475	1,6,9,11,17,21,28,34,35,37,40,41,44,55	-2.87	-1.67	-5.18	-2.87	3.48	0.25	-2.62	-2.06	-0.87	-6.01	0.24	-1.80	-6.15	-10.90	2.45	-1.54	-2.17	**-40.3**
459	4285	2,4,7,11,17,21,27,26,31,34,35,37,42,47,50,54	-4.42	-0.12	-10.67	-1.30	3.68	0.25	-1.19	3.05	1.88	-6.92	-0.09	-1.80	-10.07	-9.58	-3.11	2.28	-2.17	**-40.3**
460	3569	2,4,3,6,9,11,17,18,20,23,27,28,31,33,37,40,41,44,55	-2.30	-0.12	-6.04	-0.92	2.02	-2.32	-3.34	0.30	0.07	-2.31	-0.14	-1.80	-7.42	-11.89	-0.33	-1.54	-2.17	**-40.2**
461	97	1,3,7,11,13,15,23,27,28,31,33,37,40,43,47,49,53,54	-4.20	0.40	-10.59	-3.81	2.66	-0.60	-3.34	8.58	-1.84	-2.54	-0.73	0.11	-10.11	-11.56	1.06	-1.54	-2.17	**-40.2**
462	3408	2,4,3,6,9,11,13,16,18,21,28,34,35,37,40,43,50,54	-4.29	1.18	-11.07	-0.89	5.96	0.25	-2.62	-1.75	0.15	-5.83	-0.23	-1.80	-10.60	-4.64	-0.33	-1.54	-2.17	**-40.2**
463	2636	2,4,3,6,10,13,17,18,20,23,27,28,34,38,43,50,54	-4.54	-0.38	-13.11	-1.52	7.72	-2.32	-4.06	-2.48	2.49	-2.06	-0.87	-1.80	-14.30	-5.30	-0.33	-1.54	4.21	**-40.2**
464	3489	2,4,3,6,9,11,13,16,20,23,27,28,31,33,37,42,47,50,54	-4.11	0.40	-12.18	0.69	4.25	-1.46	-3.34	1.01	1.09	-1.86	-0.63	-1.80	-12.56	-5.63	-0.33	-1.54	-2.17	**-40.2**
465	4331	2,4,7,11,17,21,28,34,35,37,40,41,44,55	-3.12	-1.67	-5.30	-2.58	3.93	-0.60	-1.91	2.34	-0.55	-6.06	0.09	-1.80	-6.46	-9.58	-3.11	-1.54	-2.17	**-40.1**
466	4919	2,4,7,9,10,16,20,23,26,33,37,42,47,50,54	-4.58	-1.15	-12.66	-1.89	2.74	-1.46	-3.34	0.85	1.74	-3.87	-0.64	-1.80	-13.29	2.28	-3.11	2.28	-2.17	**-40.1**
467	839	1,3,7,9,10,13,17,21,27,26,33,37,42,47,50,54	-4.27	-0.12	-11.28	-3.26	1.45	1.11	-1.19	-1.51	-0.40	-6.56	-0.14	-1.80	-10.24	-2.99	1.06	2.28	-2.17	**-40.0**
468	2826	2,4,3,6,10,15,23,26,33,37,42,46,48,52,53,54	-1.81	-0.90	-4.34	0.10	-2.98	-3.18	-1.91	-3.66	-2.35	-5.17	0.55	0.11	-7.95	-6.29	-0.33	2.28	-2.17	**-40.0**
469	715	1,3,7,9,10,13,17,18,20,23,27,28,34,35,37,42,47,50,54	-4.26	0.40	-12.69	-1.78	4.09	-0.60	-3.34	1.25	1.54	-1.93	-0.84	-1.80	-13.38	-3.98	1.06	-1.54	-2.17	**-40.0**
470	3231	2,4,3,6,9,11,13,15,23,26,33,37,40,41,44,55	-2.41	-0.38	-4.16	-4.63	1.07	-2.32	-4.06	0.58	0.57	-4.53	-0.06	-1.80	-4.76	-12.87	-0.33	2.28	-2.17	**-40.0**
471	2281	1,6,9,11,17,18,20,23,26,31,34,35,37,42,47,50,54	-4.18	-0.12	-11.68	-0.36	3.06	-0.60	-3.34	1.41	3.71	-4.21	-0.35	-1.80	-12.19	-11.89	2.45	2.28	-2.17	**-40.0**
472	2248	1,6,9,11,13,16,20,23,27,28,34,35,37,42,49,53,54	-4.51	-0.90	-12.38	-0.28	5.40	-2.32	-4.77	3.49	-0.03	-2.91	-0.48	0.11	-13.51	-5.63	2.45	-1.54	-2.17	**-40.0**
473	556	1,3,7,11,17,21,27,26,33,37,40,43,50,54	-4.58	-0.90	-10.84	-2.20	1.40	1.11	-0.47	3.45	0.68	-7.15	-0.13	-1.80	-10.11	-9.58	1.06	2.28	-2.17	**-40.0**
474	2971	2,4,3,6,10,16,18,21,27,26,33,37,40,43,47,49,53,54	-3.95	0.66	-11.24	-2.46	3.04	0.25	-3.34	-4.63	-3.07	-7.01	0.12	0.11	-10.15	1.95	-0.33	2.28	-2.17	**-39.9**
475	432	1,3,7,11,17,18,20,23,27,28,34,35,37,40,43,50,54	-4.57	-0.38	-12.25	-0.72	4.05	-0.60	-2.62	6.21	2.61	-2.53	-0.83	-1.80	-13.25	-10.57	1.06	-1.54	-2.17	**-39.9**
476	2234	1,6,9,11,13,16,20,23,27,28,31,33,37,40,43,50,54	-4.32	-0.38	-12.28	-0.58	3.50	-0.60	-3.34	1.41	1.09	-2.19	-0.66	-1.80	-12.83	-5.63	2.45	-1.54	-2.17	**-39.9**
477	2149	1,6,9,11,13,16,18,21,28,31,33,37,42,47,50,54	-4.35	-0.12	-11.19	-1.37	3.92	1.11	-1.91	-1.35	-1.05	-5.30	-0.20	-1.80	-10.38	-4.64	2.45	-1.54	-2.17	**-39.9**
478	4453	2,4,7,9,10,13,17,18,20,23,27,28,31,33,37,40,41,44,55	-2.45	-0.12	-6.70	-2.96	1.76	-2.32	-3.34	0.15	-0.69	-2.10	-0.34	-1.80	-8.13	-3.98	-3.11	-1.54	-2.17	**-39.8**
479	4929	2,4,7,9,10,16,20,23,27,28,31,33,37,40,43,47,49,53,54	-4.20	0.14	-12.85	-1.61	3.85	-1.46	-4.06	2.94	-2.00	-2.22	-0.68	0.11	-13.26	2.28	-3.11	-1.54	-2.17	**-39.8**
480	1619	1,6,10,15,23,27,28,34,38,43,47,49,53,54	-4.62	-1.41	-11.64	-5.73	7.40	-1.46	-5.49	0.29	-0.76	-2.35	-0.89	0.11	-12.12	-6.29	2.45	-1.54	4.21	**-39.8**
481	2783	2,4,3,6,10,13,17,21,28,34,38,43,47,49,53,54	-4.54	-0.38	-12.06	-2.17	8.22	-0.60	-3.34	-3.16	-1.98	-5.73	-0.21	0.11	-12.02	-4.31	-0.33	-1.54	4.21	**-39.8**
482	1500	1,6,10,13,17,21,28,31,33,37,42,46,48,52,53,54	-1.98	-1.41	-5.27	2.15	-2.14	-0.60	0.25	-6.31	-4.98	-6.40	0.94	0.11	-8.61	-4.31	2.45	-1.54	-2.17	**-39.8**
483	3033	2,4,3,6,10,16,20,23,26,31,34,35,37,42,47,50,54	-4.28	-0.12	-12.44	-1.25	4.59	-1.46	-4.77	-3.95	2.61	-3.89	-0.49	-1.80	-13.26	0.96	-0.33	2.28	-2.17	**-39.8**
484	4137	2,4,7,11,17,18,20,23,26,31,34,35,37,42,47,50,54	-4.43	-0.12	-11.80	-0.06	3.51	-1.46	-2.62	5.81	4.03	-4.26	-0.51	-1.80	-12.50	-10.57	-3.11	2.28	-2.17	**-39.8**
485	4104	2,4,7,11,13,16,20,23,27,28,34,35,37,42,49,53,54	-4.76	-0.90	-12.50	0.02	5.85	-3.18	-4.06	7.90	0.29	-2.96	-0.63	0.11	-13.82	-4.31	-3.11	-1.54	-2.17	**-39.8**
486	2981	2,4,3,6,10,16,18,21,28,31,33,37,40,41,44,55	-2.63	-0.64	-5.82	-3.87	3.21	-0.60	-3.34	-7.42	-3.18	-5.43	0.16	-1.80	-6.31	1.95	-0.33	-1.54	-2.17	**-39.8**
487	1694	1,6,10,16,18,21,27,26,31,34,35,37,42,49,53,54	-4.32	-0.38	-11.38	-3.57	4.11	-0.60	-4.06	-4.23	-1.86	-7.34	0.13	0.11	-10.86	1.95	2.45	2.28	-2.17	**-39.7**
488	2818	2,4,3,6,10,15,23,26,31,34,38,43,50,54	-4.57	-0.38	-11.18	-5.63	6.55	-2.32	-4.77	-2.19	2.98	-4.12	-0.78	-1.80	-11.40	-6.29	-0.33	2.28	4.21	**-39.7**
489	3756	2,4,3,6,9,11,17,21,28,34,38,43,50,54	-4.79	-0.90	-11.53	-1.24	8.10	-0.60	-1.91	-0.28	1.45	-5.76	-0.35	-1.80	-11.56	-10.90	-0.33	-1.54	4.21	**-39.7**
490	4090	2,4,7,11,13,16,20,23,27,28,31,33,37,40,43,50,54	-4.58	-0.38	-12.40	-0.29	3.95	-1.46	-2.62	5.81	1.41	-2.25	-0.81	-1.80	-13.14	-4.31	-3.11	-1.54	-2.17	**-39.7**
491	4005	2,4,7,11,13,16,18,21,28,31,33,37,42,47,50,54	-4.61	-0.12	-11.31	-1.07	4.37	0.25	-1.19	3.05	-0.74	-5.35	-0.35	-1.80	-10.69	-3.32	-3.11	-1.54	-2.17	**-39.7**
492	1178	1,3,7,9,10,16,20,23,27,28,31,33,37,42,49,53,54	-4.53	-0.90	-13.05	-2.35	3.39	-2.32	-4.06	3.34	-2.00	-2.45	-0.68	0.11	-13.74	2.28	1.06	-1.54	-2.17	**-39.6**
493	1526	1,6,10,13,17,21,28,34,38,40,42,49,53,54	-4.73	-1.41	-12.16	-3.39	7.49	0.25	-3.34	-2.76	-1.98	-5.96	-0.23	0.11	-12.28	-4.31	2.45	-1.54	4.21	**-39.6**
494	579	1,3,7,11,17,21,28,34,35,37,40,43,47,49,53,54	-4.58	-0.38	-11.20	-1.37	4.55	1.11	-1.91	5.54	-1.86	-6.20	-0.17	0.11	-10.97	-9.58	1.06	-1.54	-2.17	**-39.6**
495	897	1,3,7,9,10,15,23,26,31,34,35,37,42,47,50,54	-4.30	0.40	-10.75	-5.90	2.92	-0.60	-4.06	1.54	2.03	-4.00	-0.75	-1.80	-10.47	-4.97	1.06	2.28	-2.17	**-39.5**

Westar Energy- JEC to East Manhattan
345/230 kV Transmission Line Project
Table F-3: Weighted, Sorted Z-scores for All Routes

		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
496	691	1,3,7,9,10,13,17,18,20,23,26,33,37,42,47,50,54	-4.28	-0.12	-12.41	-2.03	1.27	-0.60	-2.62	1.25	1.74	-3.90	-0.56	-1.80	-12.67	-3.98	1.06	2.28	-2.17	**-39.5**
497	2224	1,6,9,11,13,16,20,23,26,33,37,42,49,53,54	-4.53	-1.41	-12.10	-0.52	2.58	-2.32	-4.06	3.49	0.18	-4.87	-0.20	0.11	-12.80	-5.63	2.45	2.28	-2.17	**-39.5**
498	1778	1,6,10,16,20,23,26,31,34,35,37,40,43,50,54	-4.49	-0.90	-12.54	-2.53	3.83	-0.60	-4.77	-3.55	2.61	-4.22	-0.52	-1.80	-13.53	0.96	2.45	2.28	-2.17	**-39.5**
499	1953	1,6,9,11,13,15,23,26,31,34,35,37,40,43,47,49,53,54	-3.92	0.92	-9.98	-3.80	3.21	-0.60	-4.77	3.78	0.47	-4.77	-0.31	0.11	-9.49	-12.87	2.45	2.28	-2.17	**-39.5**
500	408	1,3,7,11,17,18,20,23,26,33,37,40,43,50,54	-4.59	-0.90	-11.97	-0.96	1.23	-0.60	-1.91	6.21	2.82	-4.49	-0.54	-1.80	-12.54	-10.57	1.06	2.28	-2.17	**-39.5**
501	4828	2,4,7,9,10,16,18,21,27,26,33,37,40,43,50,54	-4.35	0.14	-11.37	-3.58	2.66	0.25	-1.91	-1.91	-0.40	-6.83	-0.22	-1.80	-10.40	3.26	-3.11	2.28	-2.17	**-39.4**
502	3496	2,4,3,6,9,11,13,16,20,23,27,28,34,35,37,40,43,50,54	-4.23	0.66	-12.15	0.35	5.79	-1.46	-4.06	1.01	2.30	-2.42	-0.68	-1.80	-13.01	-5.63	-0.33	-1.54	-2.17	**-39.4**
503	3411	2,4,3,6,9,11,13,16,18,21,28,34,35,37,42,47,50,54	-4.26	0.92	-11.06	-0.43	6.21	0.25	-2.62	-1.75	0.15	-5.52	-0.21	-1.80	-10.55	-4.64	-0.33	-1.54	-2.17	**-39.3**
504	4640	2,4,7,9,10,13,17,21,28,34,38,43,50,54	-4.95	-0.90	-12.19	-3.28	7.84	-0.60	-1.91	-0.44	0.68	-5.55	-0.55	-1.80	-12.27	-2.99	-3.11	-1.54	4.21	**-39.3**
505	4080	2,4,7,11,13,16,20,23,26,33,37,42,49,53,54	-4.78	-1.41	-12.22	-0.23	3.03	-3.18	-3.34	7.90	0.50	-4.92	-0.35	0.11	-13.11	-4.31	-3.11	2.28	-2.17	**-39.3**
506	701	1,3,7,9,10,13,17,18,20,23,27,28,31,33,37,40,43,47,49,53,54	-3.91	1.18	-12.59	-1.75	2.38	-0.60	-3.34	3.34	-2.00	-2.25	-0.60	0.11	-12.63	-3.98	1.06	-1.54	-2.17	**-39.3**
507	1598	1,6,10,15,23,27,28,34,35,37,42,46,48,52,53,54	-1.97	-1.41	-4.71	-0.48	-0.67	-2.32	-2.62	-3.26	-2.55	-3.24	0.25	0.11	-8.88	-6.29	2.45	-1.54	-2.17	**-39.3**
508	2762	2,4,3,6,10,13,17,21,28,34,35,37,42,46,48,52,53,54	-1.89	-0.38	-5.13	3.09	0.15	-1.46	-0.47	-6.71	-3.78	-6.62	0.93	0.11	-8.78	-4.31	-0.33	-1.54	-2.17	**-39.3**
509	3809	2,4,7,11,13,15,23,26,31,34,35,37,40,43,47,49,53,54	-4.18	0.92	-10.10	-3.50	3.66	-1.46	-4.06	8.18	0.78	-4.83	-0.46	0.11	-9.80	-11.56	-3.11	2.28	-2.17	**-39.3**
510	2003	1,6,9,11,13,15,23,27,28,34,35,37,40,41,44,55	-2.57	-0.90	-4.52	-5.21	3.38	-1.46	-4.77	0.98	0.36	-2.59	-0.35	-1.80	-5.69	-12.87	2.45	-1.54	-2.17	**-39.3**
511	3677	2,4,3,6,9,11,17,21,27,26,31,34,35,37,40,43,47,49,53,54	-3.72	1.70	-10.32	-0.63	3.81	0.25	-2.62	0.33	-0.76	-7.41	0.30	0.11	-9.19	-10.90	-0.33	2.28	-2.17	**-39.3**
512	2865	2,4,3,6,10,15,23,27,28,34,38,40,42,47,50,54	-4.32	-0.12	-11.41	-5.05	7.82	-0.60	-4.77	-2.19	1.56	-1.75	-1.06	-1.80	-11.61	-6.29	-0.33	-1.54	4.21	**-39.2**
513	3388	2,4,3,6,9,11,13,16,18,21,27,26,33,37,42,49,53,54	-4.09	0.66	-10.70	-0.94	3.26	-1.46	-2.62	0.33	-1.96	-7.50	0.26	0.11	-9.63	-4.64	-0.33	2.28	-2.17	**-39.2**
514	2942	2,4,3,6,10,16,18,21,27,26,31,34,35,37,40,43,50,54	-4.05	1.18	-11.15	-2.94	4.51	0.25	-3.34	-6.71	0.46	-6.85	-0.06	-1.80	-10.36	1.95	-0.33	2.28	-2.17	**-39.1**
515	2317	1,6,9,11,17,18,20,23,27,28,31,33,37,40,41,44,55	-2.47	-1.15	-6.13	-1.74	1.52	-1.46	-3.34	0.70	0.07	-2.34	-0.15	-1.80	-7.64	-11.89	2.45	-1.54	-2.17	**-39.1**
516	559	1,3,7,11,17,21,27,26,33,37,42,47,50,54	-4.55	-1.15	-10.83	-1.75	1.65	1.11	-0.47	3.45	0.68	-6.85	-0.10	-1.80	-10.07	-9.58	1.06	2.28	-2.17	**-39.1**
517	3859	2,4,7,11,13,15,23,27,28,34,35,37,40,41,44,55	-2.82	-0.90	-4.64	-4.91	3.83	-2.32	-4.06	5.39	0.67	-2.65	-0.50	-1.80	-6.00	-11.56	-3.11	-1.54	-2.17	**-39.1**
518	2156	1,6,9,11,13,16,18,21,28,34,35,37,40,43,50,54	-4.47	0.14	-11.16	-1.71	5.46	1.11	-2.62	-1.35	0.15	-5.86	-0.24	-1.80	-10.82	-4.64	2.45	-1.54	-2.17	**-39.1**
519	58	1,3,7,11,13,15,23,26,31,34,35,37,42,49,53,54	-4.51	-0.12	-10.31	-4.24	3.20	-2.32	-4.06	8.58	0.78	-5.05	-0.46	0.11	-10.28	-11.56	1.06	2.28	-2.17	**-39.1**
520	1384	1,6,10,13,17,18,20,23,27,28,34,38,43,50,54	-4.71	-1.41	-13.20	-2.34	7.22	-1.46	-4.06	-2.08	2.49	-2.09	-0.88	-1.80	-14.53	-5.30	2.45	-1.54	4.21	**-39.0**
521	435	1,3,7,11,17,18,20,23,27,28,34,35,37,42,47,50,54	-4.54	-0.64	-12.24	-0.27	4.30	-0.60	-2.62	6.21	2.61	-2.22	-0.81	-1.80	-13.20	-10.57	1.06	-1.54	-2.17	**-39.0**
522	4851	2,4,7,9,10,16,18,21,28,34,35,37,40,43,47,49,53,54	-4.35	0.66	-11.72	-2.74	5.81	0.25	-3.34	0.18	-2.93	-5.88	-0.26	0.11	-11.25	3.26	-3.11	-1.54	-2.17	**-39.0**
523	2237	1,6,9,11,13,16,20,23,27,28,31,33,37,42,47,50,54	-4.29	-0.64	-12.27	-0.13	3.75	-0.60	-3.34	1.41	1.09	-1.89	-0.64	-1.80	-12.78	-5.63	2.45	-1.54	-2.17	**-39.0**
524	3069	2,4,3,6,10,16,20,23,27,28,31,33,37,40,41,44,55	-2.57	-1.15	-6.89	-2.64	3.04	-2.32	-4.77	-4.66	-1.03	-2.02	-0.29	-1.80	-8.71	0.96	-0.33	-1.54	-2.17	**-38.9**
525	4173	2,4,7,11,17,18,20,23,27,28,31,33,37,40,41,44,55	-2.73	-1.15	-6.25	-1.45	1.97	-2.32	-2.62	5.10	0.39	-2.39	-0.31	-1.80	-7.95	-10.57	-3.11	-1.54	-2.17	**-38.9**
526	3472	2,4,3,6,9,11,13,16,20,23,26,33,37,40,43,50,54	-4.25	0.14	-11.87	0.11	2.98	-1.46	-3.34	1.01	2.51	-4.38	-0.39	-1.80	-12.30	-5.63	-0.33	2.28	-2.17	**-38.9**
527	4012	2,4,7,11,13,16,18,21,28,34,35,37,40,43,50,54	-4.72	0.14	-11.28	-1.41	5.91	0.25	-1.91	3.05	0.47	-5.91	-0.39	-1.80	-11.13	-3.32	-3.11	-1.54	-2.17	**-38.9**
528	4561	2,4,7,9,10,13,17,21,27,26,31,34,35,37,40,43,47,49,53,54	-3.87	1.70	-10.98	-2.67	3.55	0.25	-2.62	0.18	-1.52	-7.20	0.10	0.11	-9.90	-2.99	-3.11	2.28	-2.17	**-38.9**
529	1574	1,6,10,15,23,26,33,37,42,46,48,52,53,54	-1.99	-1.93	-4.43	-0.72	-3.48	-2.32	-1.91	-3.26	-2.35	-5.20	0.53	0.11	-8.17	-6.29	2.45	2.28	-2.17	**-38.9**
530	1979	1,6,9,11,13,15,23,26,33,37,40,41,44,55	-2.59	-1.41	-4.25	-5.46	0.57	-1.46	-4.06	0.98	0.57	-4.56	-0.07	-1.80	-4.99	-12.87	2.45	2.28	-2.17	**-38.8**
531	4093	2,4,7,11,13,16,20,23,27,28,31,33,37,42,47,50,54	-4.55	-0.64	-12.39	0.17	4.20	-1.46	-2.62	5.81	1.41	-1.94	-0.79	-1.80	-13.09	-4.31	-3.11	-1.54	-2.17	**-38.8**
532	1100	1,3,7,9,10,16,18,21,28,34,35,37,42,49,53,54	-4.68	-0.38	-11.93	-3.48	5.35	-0.60	-3.34	0.58	-2.93	-6.11	-0.26	0.11	-11.73	3.26	1.06	-1.54	-2.17	**-38.8**
533	1719	1,6,10,16,18,21,27,26,33,37,40,43,47,49,53,54	-4.12	-0.38	-11.33	-3.28	2.54	1.11	-3.34	-4.23	-3.07	-7.04	0.11	0.11	-10.37	1.95	2.45	2.28	-2.17	**-38.8**
534	3529	2,4,3,6,9,11,17,18,20,23,26,31,34,35,37,40,43,47,49,53,54	-3.73	1.70	-11.45	0.61	3.64	-1.46	-4.06	3.09	1.39	-4.75	-0.12	0.11	-11.62	-11.89	-0.33	2.28	-2.17	**-38.8**
535	1086	1,3,7,9,10,16,18,21,28,31,33,37,40,43,50,54	-4.50	0.14	-11.84	-3.78	3.45	1.11	-1.91	-1.51	-1.82	-5.40	-0.44	-1.80	-11.06	3.26	1.06	-1.54	-2.17	**-38.7**
536	3284	2,4,3,6,9,11,13,15,23,27,28,34,38,43,50,54	-4.49	-0.12	-10.87	-3.58	8.00	-2.32	-4.06	2.76	2.67	-2.34	-0.94	-1.80	-11.10	-12.87	-0.33	-1.54	4.21	**-38.7**
537	1531	1,6,10,13,17,21,28,34,38,43,47,49,53,54	-4.72	-1.41	-12.15	-2.99	7.71	0.25	-3.34	-2.76	-1.98	-5.76	-0.22	0.11	-12.24	-4.31	2.45	-1.54	4.21	**-38.7**
538	4890	2,4,7,9,10,16,20,23,26,31,34,35,37,42,49,53,54	-4.51	-0.38	-12.57	-2.04	4.39	-3.18	-4.77	2.94	0.63	-4.74	-0.41	0.11	-13.43	2.28	-3.11	2.28	-2.17	**-38.7**
539	933	1,3,7,9,10,15,23,27,28,31,33,37,40,41,44,55	-2.59	-0.64	-5.20	-7.28	1.38	-1.46	-4.06	0.83	-1.61	-2.13	-0.55	-1.80	-5.93	-4.97	1.06	-1.54	-2.17	**-38.7**
540	3397	2,4,3,6,9,11,13,16,18,21,28,31,33,37,40,43,47,49,53,54	-3.91	1.70	-10.96	-0.40	4.50	0.25	-2.62	0.33	-3.38	-5.84	0.04	0.11	-9.81	-4.64	-0.33	-1.54	-2.17	**-38.7**
541	3835	2,4,7,11,13,15,23,26,33,37,40,41,44,55	-2.84	-1.41	-4.37	-5.16	1.02	-2.32	-3.34	5.39	0.88	-4.61	-0.22	-1.80	-5.30	-11.56	-3.11	2.28	-2.17	**-38.6**
542	810	1,3,7,9,10,13,17,21,27,26,31,34,35,37,42,49,53,54	-4.20	0.66	-11.18	-3.41	3.09	-0.60	-2.62	0.58	-1.52	-7.43	0.10	0.11	-10.38	-2.99	1.06	2.28	-2.17	**-38.6**
543	1781	1,6,10,16,20,23,26,31,34,35,37,42,47,50,54	-4.46	-1.15	-12.53	-2.07	4.08	-0.60	-4.77	-3.55	2.61	-3.92	-0.50	-1.80	-13.48	0.96	2.45	2.28	-2.17	**-38.6**
544	1729	1,6,10,16,18,21,28,31,33,37,40,41,44,55	-2.81	-1.67	-5.91	-4.70	2.71	0.25	-3.34	-7.02	-3.18	-5.46	0.14	-1.80	-6.53	1.95	2.45	-1.54	-2.17	**-38.6**
545	3703	2,4,3,6,9,11,17,21,27,26,33,37,40,41,44,55	-2.39	-0.64	-4.58	-2.29	1.17	-0.60	-1.91	-2.46	-0.66	-7.19	0.54	-1.80	-4.68	-10.90	-0.33	2.28	-2.17	**-38.6**
546	1566	1,6,10,15,23,26,31,34,38,43,50,54	-4.75	-1.41	-11.27	-6.46	6.04	-1.46	-4.77	-1.79	2.98	-4.15	-0.79	-1.80	-11.62	-6.29	2.45	2.28	4.21	**-38.6**
547	411	1,3,7,11,17,18,20,23,26,33,37,42,47,50,54	-4.56	-1.15	-11.96	-0.51	1.48	-0.60	-1.91	6.21	2.82	-4.19	-0.52	-1.80	-12.50	-10.57	1.06	2.28	-2.17	**-38.6**
548	2504	1,6,9,11,17,21,28,34,38,43,50,54	-4.97	-1.93	-11.61	-2.07	7.60	0.25	-1.91	0.12	1.45	-5.79	-0.36	-1.80	-11.78	-10.90	2.45	-1.54	4.21	**-38.6**
549	4831	2,4,7,9,10,16,18,21,27,26,33,37,42,47,50,54	-4.31	-0.12	-11.35	-3.12	2.91	0.25	-1.91	-1.91	-0.40	-6.53	-0.20	-1.80	-10.35	3.26	-3.11	2.28	-2.17	**-38.6**
550	3579	2,4,3,6,9,11,17,18,20,23,27,28,34,35,37,40,41,44,55	-2.38	-0.12	-5.99	-0.81	3.81	-2.32	-4.06	0.30	1.28	-2.56	-0.17	-1.80	-7.82	-11.89	-0.33	-1.54	-2.17	**-38.6**

Westar Energy- JEC to East Manhattan
345/230 kV Transmission Line Project
Table F-3: Weighted, Sorted Z-scores for All Routes

Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
551	107	1,3,7,11,13,15,23,27,28,34,35,37,40,43,47,49,53,54	-4.28	0.40	-10.54	-3.71	4.45	-0.60	-4.06	8.58	-0.63	-2.79	-0.76	0.11	-10.51	-11.56	1.06	-1.54	-2.17	**-38.5**
552	3499	2,4,3,6,9,11,13,16,20,23,27,28,34,35,37,42,47,50,54	-4.20	0.40	-12.13	0.80	6.04	-1.46	-4.06	1.01	2.30	-2.11	-0.65	-1.80	-12.96	-5.63	-0.33	-1.54	-2.17	**-38.5**
553	4696	2,4,7,9,10,15,23,27,28,31,33,37,42,46,48,52,53,54	-1.80	-0.38	-4.63	-0.29	-2.01	-3.18	-1.19	1.14	-3.42	-3.04	0.19	0.11	-8.11	-4.97	-3.11	-1.54	-2.17	**-38.4**
554	4360	2,4,7,11,17,21,28,34,38,43,50,54	-5.22	-1.93	-11.73	-1.77	8.04	-0.60	-1.19	4.52	1.76	-5.84	-0.52	-1.80	-12.09	-9.58	-3.11	-1.54	4.21	**-38.4**
555	4413	2,4,7,9,10,13,17,18,20,23,26,31,34,35,37,40,43,47,49,53,54	-3.89	1.70	-12.11	-1.44	3.38	-1.46	-4.06	2.94	0.63	-4.54	-0.32	0.11	-12.33	-3.98	-3.11	2.28	-2.17	**-38.4**
556	421	1,3,7,11,17,18,20,23,27,28,31,33,37,40,43,47,49,53,54	-4.19	0.14	-12.14	-0.24	2.59	-0.60	-2.62	8.30	-0.92	-2.54	-0.56	0.11	-12.46	-10.57	1.06	-1.54	-2.17	**-38.4**
557	2945	2,4,3,6,10,16,18,21,27,26,31,34,35,37,42,47,50,54	-4.02	0.92	-11.13	-2.49	4.76	0.25	-3.34	-6.71	0.46	-6.55	-0.04	-1.80	-10.31	1.95	-0.33	2.28	-2.17	**-38.3**
558	4587	2,4,7,9,10,13,17,21,27,26,33,37,40,41,44,55	-2.54	-0.64	-5.24	-4.34	0.90	-0.60	-1.91	-2.62	-1.42	-6.98	0.34	-1.80	-5.39	-2.99	-3.11	2.28	-2.17	**-38.2**
559	2244	1,6,9,11,13,16,20,23,27,28,34,35,37,40,43,50,54	-4.41	-0.38	-12.23	-0.47	5.29	-0.60	-4.06	1.41	2.30	-2.45	-0.69	-1.80	-13.23	-5.63	2.45	-1.54	-2.17	**-38.2**
560	2159	1,6,9,11,13,16,18,21,28,34,35,37,42,47,50,54	-4.44	-0.12	-11.14	-1.26	5.71	1.11	-2.62	-1.35	0.15	-5.55	-0.22	-1.80	-10.78	-4.64	2.45	-1.54	-2.17	**-38.2**
561	4463	2,4,7,9,10,13,17,18,20,23,27,28,34,35,37,40,41,44,55	-2.53	-0.12	-6.65	-2.85	3.55	-2.32	-4.06	0.15	0.52	-2.36	-0.37	-1.80	-8.53	-3.98	-3.11	-1.54	-2.17	**-38.2**
562	4939	2,4,7,9,10,16,20,23,27,28,34,35,37,40,43,47,49,53,54	-4.29	0.14	-12.80	-1.50	5.63	-1.46	-4.77	2.94	-0.79	-2.47	-0.71	0.11	-13.66	2.28	-3.11	-1.54	-2.17	**-38.2**
563	1510	1,6,10,13,17,21,28,34,35,37,42,46,48,52,53,54	-2.06	-1.41	-5.22	2.26	-0.35	-0.60	-0.47	-6.31	-3.78	-6.65	0.92	0.11	-9.01	-4.31	2.45	-1.54	-2.17	**-38.2**
564	4722	2,4,7,9,10,15,23,27,28,34,38,40,42,49,53,54	-4.56	-0.38	-11.53	-5.83	7.63	-2.32	-4.77	4.69	-0.42	-2.60	-0.98	0.11	-11.78	-4.97	-3.11	-1.54	4.21	**-38.1**
565	662	1,3,7,9,10,13,17,18,20,23,26,31,34,35,37,42,49,53,54	-4.22	0.66	-12.31	-2.18	2.92	-2.32	-4.06	3.34	0.63	-4.77	-0.32	0.11	-12.81	-3.98	1.06	2.28	-2.17	**-38.1**
566	2425	1,6,9,11,17,21,27,26,31,34,35,37,40,43,47,49,53,54	-3.90	0.66	-10.40	-1.46	3.31	1.11	-2.62	0.73	-0.76	-7.44	0.28	0.11	-9.41	-10.90	2.45	2.28	-2.17	**-38.1**
567	3555	2,4,3,6,9,11,17,18,20,23,26,33,37,40,41,44,55	-2.40	-0.64	-5.71	-1.06	1.00	-2.32	-3.34	0.30	1.49	-4.53	0.12	-1.80	-7.11	-11.89	-0.33	2.28	-2.17	**-38.1**
568	1613	1,6,10,15,23,27,28,34,38,40,42,47,50,54	-4.50	-1.15	-11.50	-5.87	7.32	0.25	-4.77	-1.79	1.56	-1.78	-1.08	-1.80	-11.83	-6.29	2.45	-1.54	4.21	**-38.1**
569	83	1,3,7,11,13,15,23,26,33,37,40,43,47,49,53,54	-4.30	-0.12	-10.26	-3.95	1.64	-0.60	-3.34	8.58	-0.42	-4.75	-0.48	0.11	-9.80	-11.56	1.06	2.28	-2.17	**-38.1**
570	2991	2,4,3,6,10,16,18,21,28,34,35,37,40,41,44,55	-2.72	-0.64	-5.77	-3.76	5.00	-0.60	-4.06	-7.42	-1.97	-5.69	0.13	-1.80	-6.71	1.95	-0.33	-1.54	-2.17	**-38.1**
571	2604	2,4,3,6,10,13,17,18,20,23,27,28,31,33,37,42,46,48,52,53,54	-1.49	0.14	-6.07	4.22	-1.81	-3.18	-1.19	-3.95	-2.84	-2.96	0.54	0.11	-10.28	-5.30	-0.33	-1.54	-2.17	**-38.1**
572	2777	2,4,3,6,10,13,17,21,28,34,38,40,42,47,50,54	-4.42	-0.12	-11.92	-2.31	8.14	1.11	-2.62	-5.24	0.34	-5.16	-0.40	-1.80	-11.74	-4.31	-0.33	-1.54	4.21	**-38.1**
573	3475	2,4,3,6,9,11,13,16,20,23,26,33,37,42,47,50,54	-4.22	-0.12	-11.86	0.56	3.23	-1.46	-3.34	1.01	2.51	-4.07	-0.37	-1.80	-12.25	-5.63	-0.33	2.28	-2.17	**-38.0**
574	4100	2,4,7,11,13,16,20,23,27,28,34,35,37,40,43,50,54	-4.66	-0.38	-12.35	-0.18	5.74	-1.46	-3.34	5.81	2.61	-2.50	-0.84	-1.80	-13.54	-4.31	-3.11	-1.54	-2.17	**-38.0**
575	4015	2,4,7,11,13,16,18,21,28,34,35,37,42,47,50,54	-4.69	-0.12	-11.26	-0.96	6.16	0.25	-1.91	3.05	0.47	-5.60	-0.37	-1.80	-11.09	-3.32	-3.11	-1.54	-2.17	**-38.0**
576	2136	1,6,9,11,13,16,18,21,27,26,33,37,42,49,53,54	-4.26	-0.38	-10.79	-1.76	2.75	-0.60	-2.62	0.73	-1.96	-7.53	0.25	0.11	-9.86	-4.64	2.45	2.28	-2.17	**-38.0**
577	1690	1,6,10,16,18,21,27,26,31,34,35,37,40,43,50,54	-4.22	0.14	-11.23	-3.76	4.00	1.11	-3.34	-6.31	0.46	-6.88	-0.08	-1.80	-10.58	1.95	2.45	2.28	-2.17	**-38.0**
578	1188	1,3,7,9,10,16,20,23,27,28,34,35,37,42,49,53,54	-4.62	-0.90	-13.01	-2.24	5.18	-2.32	-4.77	3.34	-0.79	-2.70	-0.71	0.11	-14.14	2.28	1.06	-1.54	-2.17	**-37.9**
579	2701	2,4,3,6,10,13,17,21,27,26,31,34,35,37,40,41,44,55	-2.24	0.40	-5.02	-3.70	2.75	-0.60	-3.34	-7.42	-0.56	-7.00	0.49	-1.80	-5.36	-4.31	-0.33	2.28	-2.17	**-37.9**
580	4281	2,4,7,11,17,21,27,26,31,34,35,37,40,43,47,49,53,54	-4.15	0.66	-10.52	-1.16	3.76	0.25	-1.91	5.14	-0.44	-7.49	0.13	0.11	-9.72	-9.58	-3.11	2.28	-2.17	**-37.9**
581	1174	1,3,7,9,10,16,20,23,27,28,31,33,37,40,43,50,54	-4.44	-0.38	-12.91	-2.55	3.28	-0.60	-3.34	1.25	0.33	-1.99	-0.89	-1.80	-13.47	2.28	1.06	-1.54	-2.17	**-37.9**
582	1089	1,3,7,9,10,16,18,21,28,31,33,37,42,47,50,54	-4.46	-0.12	-11.82	-3.33	3.70	1.11	-1.91	-1.51	-1.82	-5.09	-0.42	-1.80	-11.01	3.26	1.06	-1.54	-2.17	**-37.9**
583	2630	2,4,3,6,10,13,17,18,20,23,27,28,34,38,40,42,49,53,54	-4.24	0.14	-12.97	-1.33	7.83	-2.32	-4.77	-0.40	0.16	-2.52	-0.63	0.11	-13.95	-5.30	-0.33	-1.54	4.21	**-37.8**
584	3992	2,4,7,11,13,16,18,21,27,26,33,37,42,49,53,54	-4.52	-0.38	-10.91	-1.46	3.20	-1.46	-1.91	5.14	-1.65	-7.58	0.09	0.11	-10.17	-3.32	-3.11	2.28	-2.17	**-37.8**
585	3485	2,4,3,6,9,11,13,16,20,23,27,28,31,33,37,40,43,47,49,53,54	-3.85	1.18	-12.04	0.83	4.33	-1.46	-4.06	3.09	-1.23	-2.43	-0.41	0.11	-12.22	-5.63	-0.33	-1.54	-2.17	**-37.8**
586	1817	1,6,10,16,20,23,27,28,31,33,37,40,41,44,55	-2.75	-2.19	-6.98	-3.46	2.54	-1.46	-4.77	-4.26	-1.03	-2.05	-0.30	-1.80	-8.94	0.96	2.45	-1.54	-2.17	**-37.8**
587	2220	1,6,9,11,13,16,20,23,26,33,37,40,43,50,54	-4.43	-0.90	-11.96	-0.72	2.47	-0.60	-3.34	1.41	2.51	-4.41	-0.41	-1.80	-12.53	-5.63	2.45	2.28	-2.17	**-37.8**
588	4645	2,4,7,9,10,15,23,26,31,34,35,37,40,41,44,55	-2.57	-0.12	-4.71	-6.97	2.37	-2.32	-4.77	0.43	1.01	-4.42	-0.28	-1.80	-5.62	-4.97	-3.11	2.28	-2.17	**-37.7**
589	4439	2,4,7,9,10,13,17,18,20,23,26,33,37,40,41,44,55	-2.56	-0.64	-6.37	-3.10	0.73	-2.32	-3.34	0.15	0.72	-4.32	-0.08	-1.80	-7.82	-3.98	-3.11	2.28	-2.17	**-37.7**
590	4915	2,4,7,9,10,16,20,23,26,33,37,40,43,47,49,53,54	-4.31	-0.38	-12.52	-1.75	2.82	-1.46	-4.06	2.94	-0.58	-4.44	-0.42	0.11	-12.95	2.28	-3.11	2.28	-2.17	**-37.7**
591	530	1,3,7,11,17,21,27,26,31,34,35,37,42,49,53,54	-4.48	-0.38	-10.73	-1.90	3.30	-0.60	-1.91	5.54	-0.44	-7.72	0.13	0.11	-10.21	-9.58	1.06	2.28	-2.17	**-37.7**
592	835	1,3,7,9,10,13,17,21,27,26,33,37,40,43,47,49,53,54	-4.00	0.66	-11.14	-3.13	1.52	1.11	-1.91	0.58	-2.73	-7.13	0.08	0.11	-9.90	-2.99	1.06	2.28	-2.17	**-37.7**
593	3724	2,4,3,6,9,11,17,21,28,31,33,37,42,46,48,52,53,54	-1.75	-0.38	-4.49	4.49	-1.43	-1.46	0.96	-1.75	-3.88	-6.66	1.05	0.11	-7.53	-10.90	-0.33	-1.54	-2.17	**-37.6**
594	711	1,3,7,9,10,13,17,18,20,23,27,28,34,35,37,40,43,47,49,53,54	-4.00	1.18	-12.55	-1.64	4.17	-0.60	-4.06	3.34	-0.79	-2.50	-0.62	0.11	-13.03	-3.98	1.06	-1.54	-2.17	**-37.6**
595	2277	1,6,9,11,17,18,20,23,26,31,34,35,37,40,43,47,49,53,54	-3.91	0.66	-11.53	-0.22	3.14	-0.60	-4.06	3.49	1.39	-4.78	-0.13	0.11	-11.84	-11.89	2.45	2.28	-2.17	**-37.6**
596	4076	2,4,7,11,13,16,20,23,26,33,37,40,43,50,54	-4.68	-0.90	-12.08	-0.42	2.92	-1.46	-2.62	5.81	2.82	-4.46	-0.56	-1.80	-12.84	-4.31	-3.11	2.28	-2.17	**-37.6**
597	2032	1,6,9,11,13,15,23,27,28,34,38,43,50,54	-4.67	-1.15	-10.96	-4.40	7.50	-1.46	-4.06	3.16	2.67	-2.37	-0.96	-1.80	-11.32	-12.87	2.45	-1.54	4.21	**-37.6**
598	2145	1,6,9,11,13,16,18,21,28,31,33,37,40,43,47,49,53,54	-4.08	0.66	-11.05	-1.23	4.00	1.11	-2.62	0.73	-3.38	-5.87	0.02	0.11	-10.03	-4.64	2.45	-1.54	-2.17	**-37.5**
599	845	1,3,7,9,10,13,17,21,28,31,33,37,40,41,44,55	-2.69	-0.64	-5.71	-4.54	1.69	0.25	-1.91	-2.22	-2.84	-5.54	0.11	-1.80	-6.05	-2.99	1.06	-1.54	-2.17	**-37.5**
600	1164	1,3,7,9,10,16,20,23,26,33,37,42,49,53,54	-4.64	-1.41	-12.73	-2.49	2.36	-2.32	-4.06	3.34	-0.58	-4.66	-0.42	0.11	-13.44	2.28	1.06	2.28	-2.17	**-37.5**
601	2451	1,6,9,11,17,21,27,26,33,37,40,41,44,55	-2.56	-1.67	-4.67	-3.12	0.66	0.25	-1.91	-2.06	-0.66	-7.22	0.52	-1.80	-4.91	-10.90	2.45	2.28	-2.17	**-37.5**
602	2553	2,4,3,6,10,13,17,18,20,23,26,31,34,35,37,40,41,44,55	-2.26	0.40	-6.15	-2.46	2.58	-2.32	-4.77	-4.66	1.59	-4.34	0.07	-1.80	-7.79	-5.30	-0.33	2.28	-2.17	**-37.4**
603	3029	2,4,3,6,10,16,20,23,26,31,34,35,37,40,43,47,49,53,54	-4.01	0.66	-12.30	-1.11	4.66	-1.46	-5.49	-1.87	0.28	-4.46	-0.27	0.11	-12.91	0.96	-0.33	2.28	-2.17	**-37.4**
604	4133	2,4,7,11,17,18,20,23,26,31,34,35,37,40,43,47,49,53,54	-4.17	0.66	-11.65	0.08	3.59	-1.46	-3.34	7.90	1.70	-4.83	-0.29	0.11	-12.15	-10.57	-3.11	2.28	-2.17	**-37.4**
605	2327	1,6,9,11,17,18,20,23,27,28,34,35,37,40,41,44,55	-2.56	-1.15	-6.08	-1.64	3.31	-1.46	-4.06	0.70	1.28	-2.59	-0.18	-1.80	-8.04	-11.89	2.45	-1.54	-2.17	**-37.4**

Table F-3: Weighted, Sorted Z-scores for All Routes

Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
606	2836	2,4,3,6,10,15,23,27,28,31,33,37,40,43,47,46,48,52,53,54	-1.31	0.40	-4.37	0.63	-1.73	-1.46	-1.91	-3.66	-3.76	-2.76	0.33	0.11	-7.59	-6.29	-0.33	-1.54	-2.17	**-37.4**
607	2812	2,4,3,6,10,15,23,26,31,34,38,40,42,49,53,54	-4.28	0.14	-11.04	-5.44	6.65	-2.32	-5.49	-0.11	0.65	-4.58	-0.54	0.11	-11.04	-6.29	-0.33	2.28	4.21	**-37.4**
608	3384	2,4,3,6,9,11,13,16,18,21,27,26,33,37,40,43,50,54	-3.99	1.18	-10.56	-1.13	3.15	0.25	-1.91	-1.75	0.36	-7.04	0.05	-1.80	-9.36	-4.64	-0.33	2.28	-2.17	**-37.4**
609	3750	2,4,3,6,9,11,17,21,28,34,38,40,42,49,53,54	-4.50	-0.38	-11.38	-1.05	8.21	-0.60	-2.62	1.80	-0.88	-6.22	-0.11	0.11	-11.20	-10.90	-0.33	-1.54	4.21	**-37.4**
610	3888	2,4,7,11,13,15,23,27,28,34,38,43,50,54	-4.92	-1.15	-11.08	-4.11	7.95	-2.32	-3.34	7.57	2.99	-2.43	-1.11	-1.80	-11.63	-11.56	-3.11	-1.54	4.21	**-37.4**
611	2247	1,6,9,11,13,16,20,23,27,28,34,35,37,42,47,50,54	-4.37	-0.64	-12.22	-0.02	5.54	-0.60	-4.06	1.41	2.30	-2.14	-0.67	-1.80	-13.18	-5.63	2.45	-1.54	-2.17	**-37.3**
612	4001	2,4,7,11,13,16,18,21,28,31,33,37,40,43,47,49,53,54	-4.34	0.66	-11.17	-0.93	4.45	0.25	-1.91	5.14	-3.06	-5.92	-0.13	0.11	-10.34	-3.32	-3.11	-1.54	-2.17	**-37.3**
613	54	1,3,7,11,13,15,23,26,31,34,35,37,40,43,50,54	-4.41	0.40	-10.17	-4.43	3.10	-0.60	-3.34	6.50	3.11	-4.59	-0.67	-1.80	-10.01	-11.56	1.06	2.28	-2.17	**-37.3**
614	4307	2,4,7,11,17,21,27,26,33,37,40,41,44,55	-2.82	-1.67	-4.79	-2.82	1.11	-0.60	-1.19	2.34	-0.34	-7.27	0.37	-1.80	-5.22	-9.58	-3.11	2.28	-2.17	**-37.3**
615	4727	2,4,7,9,10,15,23,27,28,34,38,43,47,49,53,54	-4.55	-0.38	-11.52	-5.44	7.84	-2.32	-4.77	4.69	-0.42	-2.40	-0.98	0.11	-11.75	-4.97	-3.11	-1.54	4.21	**-37.3**
616	4608	2,4,7,9,10,13,17,21,28,31,33,37,42,46,48,52,53,54	-1.90	-0.38	-5.15	2.45	-1.69	-1.46	0.96	-1.91	-4.64	-6.45	0.85	0.11	-8.24	-2.99	-3.11	-1.54	-2.17	**-37.3**
617	3079	2,4,3,6,10,16,20,23,27,28,34,35,37,40,41,44,55	-2.66	-1.15	-6.84	-2.53	4.83	-2.32	-5.49	-4.66	0.17	-2.27	-0.31	-1.80	-9.11	0.96	-0.33	-1.54	-2.17	**-37.2**
618	4183	2,4,7,11,17,18,20,23,27,28,34,35,37,40,41,44,55	-2.81	-1.15	-6.20	-1.34	3.76	-2.32	-3.34	5.10	1.59	-2.65	-0.33	-1.80	-8.35	-10.57	-3.11	-1.54	-2.17	**-37.2**
619	382	1,3,7,11,17,18,20,23,26,31,34,35,37,42,49,53,54	-4.50	-0.38	-11.86	-0.66	3.13	-2.32	-3.34	8.30	1.70	-5.06	-0.29	0.11	-12.64	-10.57	1.06	2.28	-2.17	**-37.2**
620	893	1,3,7,9,10,15,23,26,31,34,35,37,40,43,47,49,53,54	-4.03	1.18	-10.61	-5.76	2.99	-0.60	-4.77	3.62	-0.30	-4.57	-0.53	0.11	-10.13	-4.97	1.06	2.28	-2.17	**-37.2**
621	687	1,3,7,9,10,13,17,18,20,23,26,33,37,40,43,47,49,53,54	-4.02	0.66	-12.27	-1.89	1.35	-0.60	-3.34	3.34	-0.58	-4.46	-0.34	0.11	-12.33	-3.98	1.06	2.28	-2.17	**-37.2**
622	4802	2,4,7,9,10,16,18,21,27,26,31,34,35,37,42,49,53,54	-4.25	0.66	-11.26	-3.27	4.56	-1.46	-3.34	0.18	-1.52	-7.40	0.04	0.11	-10.49	3.26	-3.11	2.28	-2.17	**-37.2**
623	4103	2,4,7,11,13,16,20,23,27,28,34,35,37,42,47,50,54	-4.63	-0.64	-12.34	0.28	5.99	-1.46	-3.34	5.81	2.61	-2.19	-0.82	-1.80	-13.49	-4.31	-3.11	-1.54	-2.17	**-37.2**
624	1693	1,6,10,16,18,21,27,26,31,34,35,37,42,47,50,54	-4.19	-0.12	-11.22	-3.31	4.25	1.11	-3.34	-6.31	0.46	-6.58	-0.06	-1.80	-10.54	1.95	2.45	2.28	-2.17	**-37.1**
625	250	1,3,7,11,13,16,18,21,28,31,33,37,42,49,53,54	-4.67	-0.38	-11.38	-1.67	3.99	-0.60	-1.91	5.54	-3.06	-6.15	-0.13	0.11	-10.83	-3.32	1.06	-1.54	-2.17	**-37.1**
626	1096	1,3,7,9,10,16,18,21,28,34,35,37,40,43,50,54	-4.58	0.14	-11.79	-3.67	5.24	1.11	-2.62	-1.51	-0.61	-5.65	-0.47	-1.80	-11.46	3.26	1.06	-1.54	-2.17	**-37.1**
627	943	1,3,7,9,10,15,23,27,28,34,35,37,40,41,44,55	-2.68	-0.64	-5.15	-7.18	3.16	-1.46	-4.77	0.83	-0.41	-2.38	-0.58	-1.80	-6.33	-4.97	1.06	-1.54	-2.17	**-37.0**
628	1177	1,3,7,9,10,16,20,23,27,28,31,33,37,42,47,50,54	-4.40	-0.64	-12.90	-2.09	3.53	-0.60	-3.34	1.25	0.33	-1.68	-0.86	-1.80	-13.42	2.28	1.06	-1.54	-2.17	**-37.0**
629	3407	2,4,3,6,9,11,13,16,18,21,28,34,35,37,40,43,47,49,53,54	-3.99	1.70	-10.92	-0.29	6.29	0.25	-3.34	0.33	-2.17	-6.09	0.01	0.11	-10.21	-4.64	-0.33	-1.54	-2.17	**-37.0**
630	4634	2,4,7,9,10,13,17,21,28,34,38,40,42,49,53,54	-4.65	-0.38	-12.04	-3.09	7.94	-0.60	-2.62	1.65	-1.64	-6.01	-0.32	0.11	-11.91	-2.99	-3.11	-1.54	4.21	**-37.0**
631	2303	1,6,9,11,17,18,20,23,26,33,37,40,41,44,55	-2.58	-1.67	-5.80	-1.88	0.49	-1.46	-3.34	0.70	1.49	-4.56	0.10	-1.80	-7.34	-11.89	2.45	2.28	-2.17	**-37.0**
632	2635	2,4,3,6,10,13,17,18,20,23,27,28,34,38,43,47,49,53,54	-4.24	0.14	-12.96	-0.93	8.05	-2.32	-4.77	-0.40	0.16	-2.32	-0.63	0.11	-13.91	-5.30	-0.33	-1.54	4.21	**-37.0**
633	1739	1,6,10,16,18,21,28,34,35,37,40,41,44,55	-2.90	-1.67	-5.86	-4.59	4.50	0.25	-4.06	-7.02	-1.97	-5.72	0.12	-1.80	-6.93	1.95	2.45	-1.54	-2.17	**-37.0**
634	1352	1,6,10,13,17,18,20,23,27,28,31,33,37,42,46,48,52,53,54	-1.67	-0.90	-6.16	3.39	-2.31	-2.32	-1.19	-3.55	-2.84	-2.99	0.52	0.11	-10.50	-5.30	2.45	-1.54	-2.17	**-37.0**
635	1525	1,6,10,13,17,21,28,34,38,40,42,47,50,54	-4.60	-1.15	-12.01	-3.13	7.64	1.97	-2.62	-4.84	0.34	-5.19	-0.41	-1.80	-11.96	-4.31	2.45	-1.54	4.21	**-37.0**
636	4886	2,4,7,9,10,16,20,23,26,31,34,35,37,40,43,50,54	-4.41	0.14	-12.42	-2.23	4.28	-1.46	-4.06	0.85	2.95	-4.28	-0.61	-1.80	-13.16	2.28	-3.11	2.28	-2.17	**-36.9**
637	2223	1,6,9,11,13,16,20,23,26,33,37,42,47,50,54	-4.40	-1.15	-11.94	-0.27	2.72	-0.60	-3.34	1.41	2.51	-4.10	-0.38	-1.80	-12.48	-5.63	2.45	2.28	-2.17	**-36.9**
638	806	1,3,7,9,10,13,17,21,27,26,31,34,35,37,40,43,50,54	-4.10	1.18	-11.04	-3.61	2.98	1.11	-1.91	-1.51	0.81	-6.97	-0.11	-1.80	-10.11	-2.99	1.06	2.28	-2.17	**-36.9**
639	3608	2,4,3,6,9,11,17,18,20,23,27,28,34,38,43,50,54	-4.48	-0.38	-12.42	0.00	7.93	-2.32	-3.34	2.48	3.59	-2.35	-0.77	-1.80	-13.45	-11.89	-0.33	-1.54	4.21	**-36.9**
640	1449	1,6,10,13,17,21,27,26,31,34,35,37,40,41,44,55	-2.42	-0.64	-5.11	-4.52	2.24	0.25	-3.34	-7.02	-0.56	-7.03	0.48	-1.80	-5.58	-4.31	2.45	2.28	-2.17	**-36.8**
641	3055	2,4,3,6,10,16,20,23,26,33,37,40,41,44,55	-2.68	-1.67	-6.57	-2.77	2.02	-2.32	-4.77	-4.66	0.38	-4.24	-0.03	-1.80	-8.41	0.96	-0.33	2.28	-2.17	**-36.8**
642	4159	2,4,7,11,17,18,20,23,26,33,37,40,41,44,55	-2.83	-1.67	-5.92	-1.58	0.94	-2.32	-2.62	5.10	1.80	-4.61	-0.05	-1.80	-7.65	-10.57	-3.11	2.28	-2.17	**-36.8**
643	555	1,3,7,11,17,21,27,26,33,37,40,43,47,49,53,54	-4.28	-0.38	-10.69	-1.61	1.73	1.11	-1.19	5.54	-1.65	-7.42	0.12	0.11	-9.72	-9.58	1.06	2.28	-2.17	**-36.7**
644	4706	2,4,7,9,10,15,23,27,28,34,35,37,42,46,48,52,53,54	-1.89	-0.38	-4.59	-0.18	-0.22	-3.18	-1.91	1.14	-2.21	-3.29	0.16	0.11	-8.51	-4.97	-3.11	-1.54	-2.17	**-36.7**
645	4079	2,4,7,11,13,16,20,23,26,33,37,42,47,50,54	-4.65	-1.15	-12.06	0.03	3.17	-1.46	-2.62	5.81	2.82	-4.16	-0.53	-1.80	-12.79	-4.31	-3.11	2.28	-2.17	**-36.7**
646	1378	1,6,10,13,17,18,20,23,27,28,34,38,40,42,49,53,54	-4.42	-0.90	-13.06	-2.15	7.32	-1.46	-4.77	0.00	0.16	-2.55	-0.65	0.11	-14.17	-5.30	2.45	-1.54	4.21	**-36.7**
647	431	1,3,7,11,17,18,20,23,27,28,34,35,37,40,43,47,49,53,54	-4.27	0.14	-12.09	-0.13	4.38	-0.60	-3.34	8.30	0.29	-2.79	-0.59	0.11	-12.86	-10.57	1.06	-1.54	-2.17	**-36.7**
648	2233	1,6,9,11,13,16,20,23,27,28,31,33,37,40,43,47,49,53,54	-4.02	0.14	-12.13	0.01	3.83	-0.60	-4.06	3.49	-1.23	-2.46	-0.42	0.11	-12.44	-5.63	2.45	-1.54	-2.17	**-36.7**
649	3446	2,4,3,6,9,11,13,16,20,23,26,31,34,35,37,42,49,53,54	-4.15	0.66	-11.76	0.41	4.87	-3.18	-4.77	3.09	1.39	-4.94	-0.13	0.11	-12.39	-5.63	-0.33	2.28	-2.17	**-36.6**
650	3252	2,4,3,6,9,11,13,15,23,27,28,31,33,37,42,46,48,52,53,54	-1.45	0.40	-3.83	2.15	-1.52	-3.18	-1.19	1.29	-2.65	-3.25	0.46	0.11	-7.07	-12.87	-0.33	-1.54	-2.17	**-36.6**
651	565	1,3,7,11,17,21,28,31,33,37,40,41,44,55	-2.97	-1.67	-5.26	-3.03	1.90	0.25	-1.19	2.74	-1.76	-5.83	0.15	-1.80	-5.88	-9.58	1.06	-1.54	-2.17	**-36.6**
652	919	1,3,7,9,10,15,23,26,33,37,40,41,44,55	-2.70	-1.15	-4.88	-7.42	0.35	-1.46	-4.06	0.83	-0.20	-4.35	-0.29	-1.80	-5.62	-4.97	1.06	2.28	-2.17	**-36.6**
653	3387	2,4,3,6,9,11,13,16,18,21,27,26,33,37,42,47,50,54	-3.96	0.92	-10.55	-0.68	3.40	0.25	-1.91	-1.75	0.36	-6.73	0.08	-1.80	-9.31	-4.64	-0.33	2.28	-2.17	**-36.5**
654	2817	2,4,3,6,10,15,23,26,31,34,38,43,47,49,53,54	-4.27	0.14	-11.02	-5.04	6.87	-2.32	-5.49	-0.11	0.65	-4.38	-0.54	0.11	-11.01	-6.29	-0.33	2.28	4.21	**-36.5**
655	3755	2,4,3,6,9,11,17,21,28,34,38,43,47,49,53,54	-4.49	-0.38	-11.37	-0.65	8.43	-0.60	-2.62	1.80	-0.88	-6.02	-0.11	0.11	-11.17	-10.90	-0.33	-1.54	4.21	**-36.5**
656	2472	1,6,9,11,17,21,28,31,33,37,42,46,48,52,53,54	-1.92	-1.41	-4.57	3.67	-1.93	-0.60	0.96	-1.35	-3.88	-6.69	1.04	0.11	-7.76	-10.90	2.45	-1.54	-2.17	**-36.5**
657	4089	2,4,7,11,13,16,20,23,27,28,31,33,37,40,43,47,49,53,54	-4.28	0.14	-12.25	0.31	4.28	-1.46	-3.34	7.90	-0.92	-2.51	-0.57	0.11	-12.75	-4.31	-3.11	-1.54	-2.17	**-36.5**
658	2738	2,4,3,6,10,13,17,21,27,26,33,37,42,46,48,52,53,54	-1.58	-0.38	-4.62	2.84	-2.66	-1.46	0.25	-6.71	-3.57	-7.83	1.21	0.11	-7.54	-4.31	-0.33	2.28	-2.17	**-36.5**
659	4492	2,4,7,9,10,13,17,18,20,23,27,28,34,38,43,50,54	-4.64	-0.38	-13.08	-2.05	7.67	-2.32	-3.34	2.33	2.83	-2.14	-0.97	-1.80	-14.16	-3.98	-3.11	-1.54	4.21	**-36.5**
660	57	1,3,7,11,13,15,23,26,31,34,35,37,42,47,50,54	-4.37	0.14	-10.15	-3.98	3.35	-0.60	-3.34	6.50	3.11	-4.29	-0.64	-1.80	-9.96	-11.56	1.06	2.28	-2.17	**-36.4**

Westar Energy- JEC to East Manhattan
345/230 kV Transmission Line Project
Table F-3: Weighted, Sorted Z-scores for All Routes

Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
661	2614	2,4,3,6,10,13,17,18,20,23,27,28,34,35,37,42,46,48,52,53,54	-1.58	0.14	-6.02	4.33	-0.02	-3.18	-1.91	-3.95	-1.63	-3.21	0.51	0.11	-10.68	-5.30	-0.33	-1.54	-2.17	**-36.4**
662	658	1,3,7,9,10,13,17,18,20,23,26,31,34,35,37,40,43,50,54	-4.12	1.18	-12.17	-2.37	2.81	-0.60	-3.34	1.25	2.95	-4.31	-0.53	-1.80	-12.54	-3.98	1.06	2.28	-2.17	**-36.4**
663	3020	2,4,3,6,10,16,18,21,28,34,38,43,50,54	-4.82	-0.90	-12.20	-2.96	9.12	-0.60	-3.34	-5.24	0.34	-5.47	-0.47	-1.80	-12.34	1.95	-0.33	-1.54	4.21	**-36.4**
664	3278	2,4,3,6,9,11,13,15,23,27,28,34,38,40,42,49,53,54	-4.20	0.40	-10.73	-3.39	8.11	-2.32	-4.77	4.85	0.35	-2.80	-0.71	0.11	-10.75	-12.87	-0.33	-1.54	4.21	**-36.4**
665	4328	2,4,7,11,17,21,28,31,33,37,42,46,48,52,53,54	-2.18	-1.41	-4.69	3.97	-1.48	-1.46	1.68	3.05	-3.56	-6.74	0.89	0.11	-8.07	-9.58	-3.11	-1.54	-2.17	**-36.3**
666	1301	1,6,10,13,17,18,20,23,26,31,34,35,37,40,41,44,55	-2.43	-0.64	-6.24	-3.28	2.07	-1.46	-4.77	-4.26	1.59	-4.37	0.06	-1.80	-8.01	-5.30	2.45	2.28	-2.17	**-36.3**
667	1777	1,6,10,16,20,23,26,31,34,35,37,40,43,47,49,53,54	-4.19	-0.38	-12.39	-1.93	4.16	-0.60	-5.49	-1.47	0.28	-4.49	-0.28	0.11	-13.14	0.96	2.45	2.28	-2.17	**-36.3**
668	4682	2,4,7,9,10,15,23,26,33,37,42,46,48,52,53,54	-1.91	-0.90	-4.31	-0.43	-3.04	-3.18	-1.19	1.14	-2.00	-5.25	0.45	0.11	-7.81	-4.97	-3.11	2.28	-2.17	**-36.3**
669	1584	1,6,10,15,23,27,28,31,33,37,40,43,47,46,48,52,53,54	-1.48	-0.64	-4.46	-0.19	-2.24	-0.60	-1.91	-3.26	-3.76	-2.79	0.31	0.11	-7.82	-6.29	2.45	-1.54	-2.17	**-36.3**
670	1560	1,6,10,15,23,26,31,34,38,40,42,49,53,54	-4.45	-0.90	-11.12	-6.26	6.15	-1.46	-5.49	0.29	0.65	-4.61	-0.56	0.11	-11.27	-6.29	2.45	2.28	4.21	**-36.3**
671	2132	1,6,9,11,13,16,18,21,27,26,33,37,40,43,50,54	-4.16	0.14	-10.65	-1.95	2.65	1.11	-1.91	-1.35	0.36	-7.07	0.04	-1.80	-9.58	-4.64	2.45	2.28	-2.17	**-36.3**
672	2748	2,4,3,6,10,13,17,21,28,31,33,37,40,43,47,46,48,52,53,54	-1.40	0.40	-4.88	3.38	-1.42	0.25	0.25	-6.71	-4.98	-6.17	0.99	0.11	-7.72	-4.31	-0.33	-1.54	-2.17	**-36.3**
673	338	1,3,7,11,13,16,20,23,27,28,31,33,37,42,49,53,54	-4.61	-0.90	-12.46	-0.43	3.82	-2.32	-3.34	8.30	-0.92	-2.74	-0.57	0.11	-13.23	-4.31	1.06	-1.54	-2.17	**-36.3**
674	2498	1,6,9,11,17,21,28,34,38,40,42,49,53,54	-4.67	-1.41	-11.47	-1.87	7.70	0.25	-2.62	2.20	-0.88	-6.25	-0.13	0.11	-11.43	-10.90	2.45	-1.54	4.21	**-36.2**
675	407	1,3,7,11,17,18,20,23,26,33,37,40,43,47,49,53,54	-4.30	-0.38	-11.82	-0.37	1.56	-0.60	-2.62	8.30	0.50	-4.76	-0.30	0.11	-12.15	-10.57	1.06	2.28	-2.17	**-36.2**
676	2730	2,4,3,6,10,13,17,21,27,26,31,34,38,43,50,54	-4.34	0.14	-11.45	-2.89	6.86	-0.60	-2.62	-5.24	1.76	-6.78	-0.11	-1.80	-10.99	-4.31	-0.33	2.28	4.21	**-36.2**
677	4827	2,4,7,9,10,16,18,21,27,26,33,37,40,43,47,49,53,54	-4.05	0.66	-11.21	-2.98	2.99	0.25	-2.62	0.18	-2.73	-7.10	0.02	0.11	-10.01	3.26	-3.11	2.28	-2.17	**-36.2**
678	1184	1,3,7,9,10,16,20,23,27,28,34,35,37,40,43,50,54	-4.52	-0.38	-12.86	-2.44	5.07	-0.60	-4.06	1.25	1.54	-2.24	-0.91	-1.80	-13.87	2.28	1.06	-1.54	-2.17	**-36.2**
679	1099	1,3,7,9,10,16,18,21,28,34,35,37,42,47,50,54	-4.55	-0.12	-11.78	-3.22	5.49	1.11	-2.62	-1.51	-0.61	-5.34	-0.44	-1.80	-11.41	3.26	1.06	-1.54	-2.17	**-36.2**
680	3495	2,4,3,6,9,11,13,16,20,23,27,28,34,35,37,40,43,47,49,53,54	-3.93	1.18	-11.99	0.94	6.12	-1.46	-4.77	3.09	-0.03	-2.68	-0.43	0.11	-12.62	-5.63	-0.33	-1.54	-2.17	**-36.1**
681	4639	2,4,7,9,10,13,17,21,28,34,38,43,47,49,53,54	-4.65	-0.38	-12.03	-2.69	8.16	-0.60	-2.62	1.65	-1.64	-5.81	-0.31	0.11	-11.88	-2.99	-3.11	-1.54	4.21	**-36.1**
682	1827	1,6,10,16,20,23,27,28,34,35,37,40,41,44,55	-2.84	-2.19	-6.93	-3.35	4.33	-1.46	-5.49	-4.26	0.17	-2.30	-0.33	-1.80	-9.34	0.96	2.45	-1.54	-2.17	**-36.1**
683	3988	2,4,7,11,13,16,18,21,27,26,33,37,40,43,50,54	-4.42	0.14	-10.77	-1.66	3.09	0.25	-1.19	3.05	0.68	-7.12	-0.11	-1.80	-9.89	-3.32	-3.11	2.28	-2.17	**-36.1**
684	4889	2,4,7,9,10,16,20,23,26,31,34,35,37,42,47,50,54	-4.38	-0.12	-12.41	-1.78	4.53	-1.46	-4.06	0.85	2.95	-3.97	-0.59	-1.80	-13.11	2.28	-3.11	2.28	-2.17	**-36.1**
685	4837	2,4,7,9,10,16,18,21,28,31,33,37,40,41,44,55	-2.74	-0.64	-5.79	-4.40	3.16	-0.60	-2.62	-2.62	-2.84	-5.52	0.06	-1.80	-6.16	3.26	-3.11	-1.54	-2.17	**-36.1**
686	4354	2,4,7,11,17,21,28,34,38,40,42,49,53,54	-4.93	-1.41	-11.59	-1.58	8.15	-0.60	-1.91	6.61	-0.56	-6.30	-0.28	0.11	-11.74	-9.58	-3.11	-1.54	4.21	**-36.1**
687	4674	2,4,7,9,10,15,23,26,31,34,38,43,50,54	-4.67	-0.38	-11.15	-6.16	6.49	-2.32	-4.06	2.61	3.32	-4.20	-0.88	-1.80	-11.25	-4.97	-3.11	2.28	4.21	**-36.0**
688	809	1,3,7,9,10,13,17,21,27,26,31,34,35,37,42,47,50,54	-4.07	0.92	-11.03	-3.16	3.23	1.11	-1.91	-1.51	0.81	-6.66	-0.09	-1.80	-10.06	-2.99	1.06	2.28	-2.17	**-36.0**
689	1076	1,3,7,9,10,16,18,21,27,26,33,37,42,49,53,54	-4.37	-0.38	-11.42	-3.72	2.53	-0.60	-2.62	0.58	-2.73	-7.32	0.02	0.11	-10.49	3.26	1.06	2.28	-2.17	**-36.0**
690	2796	2,4,3,6,10,15,23,26,31,34,35,37,42,46,48,52,53,54	-1.61	0.14	-4.09	0.21	-1.19	-3.18	-2.62	-3.66	-1.14	-5.27	0.60	0.11	-7.77	-6.29	-0.33	2.28	-2.17	**-36.0**
691	2590	2,4,3,6,10,13,17,18,20,23,26,33,37,42,46,48,52,53,54	-1.60	-0.38	-5.75	4.08	-2.83	-3.18	-1.19	-3.95	-1.42	-5.17	0.79	0.11	-9.97	-5.30	-0.33	2.28	-2.17	**-36.0**
692	3734	2,4,3,6,9,11,17,21,28,34,35,37,42,46,48,52,53,54	-1.83	-0.38	-4.44	4.60	0.36	-1.46	0.25	-1.75	-2.67	-6.91	1.03	0.11	-7.93	-10.90	-0.33	-1.54	-2.17	**-36.0**
693	3201	2,4,3,6,9,11,13,15,23,26,31,34,35,37,40,41,44,55	-2.21	0.66	-3.91	-4.52	2.86	-2.32	-4.77	0.58	1.77	-4.63	0.00	-1.80	-4.58	-12.87	-0.33	2.28	-2.17	**-36.0**
694	526	1,3,7,11,17,21,27,26,31,34,35,37,40,43,50,54	-4.38	0.14	-10.59	-2.09	3.19	1.11	-1.19	3.45	1.88	-7.26	-0.07	-1.80	-9.93	-9.58	1.06	2.28	-2.17	**-36.0**
695	2941	2,4,3,6,10,16,18,21,27,26,31,34,35,37,40,43,47,49,53,54	-3.75	1.70	-10.99	-2.35	4.83	0.25	-4.06	-4.63	-1.86	-7.12	0.18	0.11	-9.97	1.95	-0.33	2.28	-2.17	**-35.9**
696	2155	1,6,9,11,13,16,18,21,28,34,35,37,40,43,47,49,53,54	-4.17	0.66	-11.00	-1.12	5.79	1.11	-3.34	0.73	-2.17	-6.12	0.00	0.11	-10.43	-4.64	2.45	-1.54	-2.17	**-35.9**
697	855	1,3,7,9,10,13,17,21,28,34,35,37,40,41,44,55	-2.78	-0.64	-5.66	-4.43	3.48	0.25	-2.62	-2.22	-1.63	-5.80	0.09	-1.80	-6.46	-2.99	1.06	-1.54	-2.17	**-35.9**
698	1383	1,6,10,13,17,18,20,23,27,28,34,38,43,47,49,53,54	-4.41	-0.90	-13.05	-1.75	7.54	-1.46	-4.77	0.00	0.16	-2.35	-0.64	0.11	-14.14	-5.30	2.45	-1.54	4.21	**-35.8**
699	2867	2,4,3,6,10,15,23,27,28,34,38,41,44,55	-2.92	-1.15	-5.56	-6.46	7.04	-3.18	-5.49	-2.90	0.54	-2.20	-0.59	-1.80	-7.21	-6.29	-0.33	-1.54	4.21	**-35.8**
700	1160	1,3,7,9,10,16,20,23,26,33,37,40,43,50,54	-4.54	-0.90	-12.59	-2.68	2.25	-0.60	-3.34	1.25	1.74	-4.20	-0.63	-1.80	-13.16	2.28	1.06	2.28	-2.17	**-35.7**
701	2846	2,4,3,6,10,15,23,27,28,34,35,37,40,43,47,46,48,52,53,54	-1.39	0.40	-4.32	0.74	0.05	-1.46	-2.62	-3.66	-2.55	-3.01	0.30	0.11	-7.99	-6.29	-0.33	-1.54	-2.17	**-35.7**
702	2582	2,4,3,6,10,13,17,18,20,23,26,31,34,38,43,50,54	-4.36	0.14	-12.58	-1.65	6.69	-2.32	-4.06	-2.48	3.90	-4.12	-0.53	-1.80	-13.42	-5.30	-0.33	2.28	4.21	**-35.7**
703	2356	1,6,9,11,17,18,20,23,27,28,34,38,43,50,54	-4.66	-1.41	-12.51	-0.83	7.42	-1.46	-3.34	2.88	3.59	-2.38	-0.78	-1.80	-13.68	-11.89	2.45	-1.54	4.21	**-35.7**
704	3471	2,4,3,6,9,11,13,16,20,23,26,33,37,40,43,47,49,53,54	-3.95	0.66	-11.71	0.70	3.30	-1.46	-4.06	3.09	0.18	-4.64	-0.15	0.11	-11.91	-5.63	-0.33	2.28	-2.17	**-35.7**
705	4011	2,4,7,11,13,16,18,21,28,34,35,37,40,43,47,49,53,54	-4.43	0.66	-11.12	-0.82	6.24	0.25	-2.62	5.14	-1.86	-6.17	-0.15	0.11	-10.74	-3.32	-3.11	-1.54	-2.17	**-35.7**
706	1803	1,6,10,16,20,23,26,33,37,40,41,44,55	-2.86	-2.71	-6.66	-3.60	1.51	-1.46	-4.77	-4.26	0.38	-4.27	-0.04	-1.80	-8.63	0.96	2.45	2.28	-2.17	**-35.7**
707	4618	2,4,7,9,10,13,17,21,28,34,35,37,42,46,48,52,53,54	-1.99	-0.38	-5.10	2.56	0.10	-1.46	0.25	-1.91	-3.43	-6.70	0.83	0.11	-8.64	-2.99	-3.11	-1.54	-2.17	**-35.6**
708	93	1,3,7,11,13,15,23,27,28,31,33,37,40,41,44,55	-2.67	-0.90	-4.60	-5.37	1.81	-1.46	-3.34	5.79	-0.53	-2.42	-0.44	-1.80	-5.42	-11.56	1.06	-1.54	-2.17	**-35.6**
709	4721	2,4,7,9,10,15,23,27,28,34,38,40,42,47,50,54	-4.42	-0.12	-11.38	-5.57	7.77	-0.60	-4.06	2.61	1.91	-1.83	-1.16	-1.80	-11.46	-4.97	-3.11	-1.54	4.21	**-35.5**
710	3108	2,4,3,6,10,16,20,23,27,28,34,38,43,50,54	-4.76	-1.41	-13.28	-1.72	8.95	-2.32	-4.77	-2.48	2.49	-2.06	-0.92	-1.80	-14.75	0.96	-0.33	-1.54	4.21	**-35.5**
711	661	1,3,7,9,10,13,17,18,20,23,26,31,34,35,37,42,47,50,54	-4.09	0.92	-12.16	-1.92	3.06	-0.60	-3.34	1.25	2.95	-4.00	-0.51	-1.80	-12.49	-3.98	1.06	2.28	-2.17	**-35.5**
712	4212	2,4,7,11,17,18,20,23,27,28,34,38,43,50,54	-4.92	-1.41	-12.63	-0.53	7.87	-2.32	-2.62	7.28	3.91	-2.43	-0.94	-1.80	-13.99	-10.57	-3.11	-1.54	4.21	**-35.5**
713	1085	1,3,7,9,10,16,18,21,28,31,33,37,40,43,47,49,53,54	-4.20	0.66	-11.68	-3.19	3.78	1.11	-2.62	0.58	-4.14	-5.66	-0.20	0.11	-10.67	3.26	1.06	-1.54	-2.17	**-35.5**
714	2194	1,6,9,11,13,16,20,23,26,31,34,35,37,42,49,53,54	-4.33	-0.38	-11.85	-0.41	4.37	-2.32	-4.77	3.49	1.39	-4.97	-0.15	0.11	-12.62	-5.63	2.45	2.28	-2.17	**-35.5**
715	3283	2,4,3,6,9,11,13,15,23,27,28,34,38,43,47,49,53,54	-4.19	0.40	-10.71	-2.99	8.33	-2.32	-4.77	4.85	0.35	-2.61	-0.70	0.11	-10.71	-12.87	-0.33	-1.54	4.21	**-35.5**

Westar Energy- JEC to East Manhattan
345/230 kV Transmission Line Project
Table F-3: Weighted, Sorted Z-scores for All Routes

Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
716	2000	1,6,9,11,13,15,23,27,28,31,33,37,42,46,48,52,53,54	-1.62	-0.64	-3.92	1.33	-2.03	-2.32	-1.19	1.69	-2.65	-3.27	0.45	0.11	-7.30	-12.87	2.45	-1.54	-2.17	**-35.5**
717	378	1,3,7,11,17,18,20,23,26,31,34,35,37,40,43,50,54	-4.40	0.14	-11.72	-0.85	3.02	-0.60	-2.62	6.21	4.03	-4.60	-0.49	-1.80	-12.36	-10.57	1.06	2.28	-2.17	**-35.4**
718	260	1,3,7,11,13,16,18,21,28,34,35,37,42,49,53,54	-4.75	-0.38	-11.33	-1.56	5.78	-0.60	-2.62	5.54	-1.86	-6.40	-0.15	0.11	-11.23	-3.32	1.06	-1.54	-2.17	**-35.4**
719	4798	2,4,7,9,10,16,18,21,27,26,31,34,35,37,40,43,50,54	-4.15	1.18	-11.11	-3.47	4.45	0.25	-2.62	-1.91	0.81	-6.94	-0.17	-1.80	-10.22	3.26	-3.11	2.28	-2.17	**-35.4**
720	2135	1,6,9,11,13,16,18,21,27,26,33,37,42,47,50,54	-4.13	-0.12	-10.63	-1.50	2.89	1.11	-1.91	-1.35	0.36	-6.76	0.06	-1.80	-9.54	-4.64	2.45	2.28	-2.17	**-35.4**
721	1565	1,6,10,15,23,26,31,34,38,43,47,49,53,54	-4.45	-0.90	-11.11	-5.87	6.37	-1.46	-5.49	0.29	0.65	-4.41	-0.55	0.11	-11.23	-6.29	2.45	2.28	4.21	**-35.4**
722	2503	1,6,9,11,17,21,28,34,38,43,47,49,53,54	-4.67	-1.41	-11.46	-1.47	7.92	0.25	-2.62	2.20	-0.88	-6.05	-0.12	0.11	-11.39	-10.90	2.45	-1.54	4.21	**-35.4**
723	246	1,3,7,11,13,16,18,21,28,31,33,37,40,43,50,54	-4.57	0.14	-11.24	-1.86	3.88	1.11	-1.19	3.45	-0.74	-5.69	-0.33	-1.80	-10.55	-3.32	1.06	-1.54	-2.17	**-35.4**
724	1486	1,6,10,13,17,21,27,26,33,37,42,46,48,52,53,54	-1.76	-1.41	-4.71	2.02	-3.17	-0.60	0.25	-6.31	-3.57	-7.86	1.20	0.11	-7.77	-4.31	2.45	2.28	-2.17	**-35.3**
725	1187	1,3,7,9,10,16,20,23,27,28,34,35,37,42,47,50,54	-4.49	-0.64	-12.85	-1.98	5.32	-0.60	-4.06	1.25	1.54	-1.93	-0.89	-1.80	-13.82	2.28	1.06	-1.54	-2.17	**-35.3**
726	4050	2,4,7,11,13,16,20,23,26,31,34,35,37,42,49,53,54	-4.59	-0.38	-11.97	-0.12	4.82	-3.18	-4.06	7.90	1.70	-5.03	-0.30	0.11	-12.93	-4.31	-3.11	2.28	-2.17	**-35.3**
727	3856	2,4,7,11,13,15,23,27,28,31,33,37,42,46,48,52,53,54	-1.88	-0.64	-4.04	1.63	-1.58	-3.18	-0.47	6.10	-2.34	-3.33	0.30	0.11	-7.61	-11.56	-3.11	-1.54	-2.17	**-35.3**
728	972	1,3,7,9,10,15,23,27,28,34,38,43,50,54	-4.78	-0.90	-11.59	-6.37	7.28	-1.46	-4.06	3.01	1.91	-2.17	-1.18	-1.80	-11.96	-4.97	1.06	-1.54	4.21	**-35.3**
729	2822	2,4,3,6,10,15,23,26,33,37,40,43,47,46,48,52,53,54	-1.41	-0.12	-4.04	0.50	-2.76	-1.46	-1.91	-3.66	-2.35	-4.97	0.58	0.11	-7.29	-6.29	-0.33	2.28	-2.17	**-35.3**
730	2967	2,4,3,6,10,16,18,21,27,26,33,37,40,41,44,55	-2.42	-0.64	-5.26	-4.01	2.19	-0.60	-3.34	-7.42	-1.76	-6.90	0.42	-1.80	-5.47	1.95	-0.33	2.28	-2.17	**-35.3**
731	1362	1,6,10,13,17,18,20,23,27,28,34,35,37,42,46,48,52,53,54	-1.75	-0.90	-6.11	3.50	-0.52	-2.32	-1.91	-3.55	-1.63	-3.24	0.50	0.11	-10.90	-5.30	2.45	-1.54	-2.17	**-35.3**
732	1768	1,6,10,16,18,21,28,34,38,43,50,54	-5.00	-1.93	-12.29	-3.78	8.62	0.25	-3.34	-4.84	0.34	-5.50	-0.48	-1.80	-12.56	1.95	2.45	-1.54	4.21	**-35.2**
733	2026	1,6,9,11,13,15,23,27,28,34,38,40,42,49,53,54	-4.37	-0.64	-10.81	-4.21	7.61	-1.46	-4.77	5.25	0.35	-2.83	-0.72	0.11	-10.97	-12.87	2.45	-1.54	4.21	**-35.2**
734	2629	2,4,3,6,10,13,17,18,20,23,27,28,34,38,40,42,47,50,54	-4.11	0.40	-12.82	-1.07	7.97	-0.60	-4.06	-2.48	2.49	-1.75	-0.82	-1.80	-13.63	-5.30	-0.33	-1.54	4.21	**-35.2**
735	3991	2,4,7,11,13,16,18,21,27,26,33,37,42,47,50,54	-4.39	-0.12	-10.75	-1.21	3.34	0.25	-1.19	3.05	0.68	-6.82	-0.09	-1.80	-9.85	-3.32	-3.11	2.28	-2.17	**-35.2**
736	4925	2,4,7,9,10,16,20,23,27,28,31,33,37,40,41,44,55	-2.68	-1.15	-6.86	-3.16	2.99	-2.32	-4.06	0.15	-0.69	-2.10	-0.39	-1.80	-8.57	2.28	-3.11	-1.54	-2.17	**-35.2**
737	4359	2,4,7,11,17,21,28,34,38,43,47,49,53,54	-4.93	-1.41	-11.58	-1.18	8.37	-0.60	-1.91	6.61	-0.56	-6.10	-0.27	0.11	-11.70	-9.58	-3.11	-1.54	4.21	**-35.2**
738	3358	2,4,3,6,9,11,13,16,18,21,27,26,31,34,35,37,42,49,53,54	-3.89	1.70	-10.45	-0.83	5.04	-1.46	-3.34	0.33	-0.76	-7.60	0.31	0.11	-9.45	-4.64	-0.33	2.28	-2.17	**-35.1**
739	1496	1,6,10,13,17,21,28,31,33,37,40,43,47,46,48,52,53,54	-1.58	-0.64	-4.97	2.55	-1.92	1.11	0.25	-6.31	-4.98	-6.20	0.98	0.11	-7.94	-4.31	2.45	-1.54	-2.17	**-35.1**
740	1478	1,6,10,13,17,21,27,26,31,34,38,43,50,54	-4.52	-0.90	-11.54	-3.72	6.36	0.25	-2.62	-4.84	1.76	-6.81	-0.13	-1.80	-11.21	-4.31	2.45	2.28	4.21	**-35.1**
741	529	1,3,7,11,17,21,27,26,31,34,35,37,42,47,50,54	-4.35	-0.12	-10.58	-1.64	3.44	1.11	-1.19	3.45	1.88	-6.95	-0.05	-1.80	-9.89	-9.58	1.06	2.28	-2.17	**-35.1**
742	3882	2,4,7,11,13,15,23,27,28,34,38,40,42,49,53,54	-4.63	-0.64	-10.93	-3.91	8.06	-2.32	-4.06	9.65	0.66	-2.89	-0.87	0.11	-11.28	-11.56	-3.11	-1.54	4.21	**-35.0**
743	2243	1,6,9,11,13,16,20,23,27,28,34,35,37,40,43,47,49,53,54	-4.11	0.14	-12.08	0.12	5.62	-0.60	-4.77	3.49	-0.03	-2.71	-0.45	0.11	-12.84	-5.63	2.45	-1.54	-2.17	**-35.0**
744	3262	2,4,3,6,9,11,13,15,23,27,28,34,35,37,42,46,48,52,53,54	-1.53	0.40	-3.78	2.26	0.27	-3.18	-1.91	1.29	-1.45	-3.50	0.44	0.11	-7.47	-12.87	-0.33	-1.54	-2.17	**-35.0**
745	575	1,3,7,11,17,21,28,34,35,37,40,41,44,55	-3.06	-1.67	-5.21	-2.92	3.69	0.25	-1.91	2.74	-0.55	-6.09	0.12	-1.80	-6.28	-9.58	1.06	-1.54	-2.17	**-34.9**
746	3442	2,4,3,6,9,11,13,16,20,23,26,31,34,35,37,40,43,50,54	-4.06	1.18	-11.62	0.22	4.77	-1.46	-4.06	1.01	3.71	-4.48	-0.34	-1.80	-12.12	-5.63	-0.33	2.28	-2.17	**-34.9**
747	1163	1,3,7,9,10,16,20,23,26,33,37,42,47,50,54	-4.51	-1.15	-12.57	-2.23	2.50	-0.60	-3.34	1.25	1.74	-3.90	-0.61	-1.80	-13.11	2.28	1.06	2.28	-2.17	**-34.9**
748	1544	1,6,10,15,23,26,31,34,35,37,42,46,48,52,53,54	-1.79	-0.90	-4.18	-0.61	-1.70	-2.32	-2.62	-3.26	-1.14	-5.30	0.59	0.11	-7.99	-6.29	2.45	2.28	-2.17	**-34.8**
749	1338	1,6,10,13,17,18,20,23,26,33,37,42,46,48,52,53,54	-1.77	-1.41	-5.84	3.26	-3.34	-2.32	-1.19	-3.55	-1.42	-5.20	0.78	0.11	-10.20	-5.30	2.45	2.28	-2.17	**-34.8**
750	2482	1,6,9,11,17,21,28,34,35,37,42,46,48,52,53,54	-2.01	-1.41	-4.53	3.78	-0.14	-0.60	0.25	-1.35	-2.67	-6.94	1.02	0.11	-8.16	-10.90	2.45	-1.54	-2.17	**-34.8**
751	1949	1,6,9,11,13,15,23,26,31,34,35,37,40,41,44,55	-2.39	-0.38	-3.99	-5.35	2.36	-1.46	-4.77	0.98	1.77	-4.66	-0.02	-1.80	-4.81	-12.87	2.45	2.28	-2.17	**-34.8**
752	4099	2,4,7,11,13,16,20,23,27,28,34,35,37,40,43,47,49,53,54	-4.36	0.14	-12.20	0.42	6.07	-1.46	-4.06	7.90	0.29	-2.76	-0.60	0.11	-13.15	-4.31	-3.11	-1.54	-2.17	**-34.8**
753	2811	2,4,3,6,10,15,23,26,31,34,38,40,42,47,50,54	-4.15	0.40	-10.88	-5.18	6.80	-0.60	-4.77	-2.19	2.98	-3.81	-0.73	-1.80	-10.72	-6.29	-0.33	2.28	4.21	**-34.8**
754	1689	1,6,10,16,18,21,27,26,31,34,35,37,40,43,47,49,53,54	-3.93	0.66	-11.08	-3.17	4.33	1.11	-4.06	-4.23	-1.86	-7.15	0.16	0.11	-10.19	1.95	2.45	2.28	-2.17	**-34.8**
755	3576	2,4,3,6,9,11,17,18,20,23,27,28,31,33,37,42,46,48,52,53,54	-1.44	0.14	-5.38	5.73	-1.60	-3.18	-0.47	1.01	-1.73	-3.25	0.64	0.11	-9.43	-11.89	-0.33	-1.54	-2.17	**-34.8**
756	3749	2,4,3,6,9,11,17,21,28,34,38,40,42,47,50,54	-4.37	-0.12	-11.23	-0.79	8.35	1.11	-1.91	-0.28	1.45	-5.45	-0.30	-1.80	-10.88	-10.90	-0.33	-1.54	4.21	**-34.8**
757	1615	1,6,10,15,23,27,28,34,38,41,44,55	-3.10	-2.19	-5.65	-7.28	6.54	-2.32	-5.49	-2.50	0.54	-2.23	-0.60	-1.80	-7.43	-6.29	2.45	-1.54	4.21	**-34.7**
758	2779	2,4,3,6,10,13,17,21,28,34,38,41,44,55	-3.02	-1.15	-6.08	-3.72	7.36	-1.46	-3.34	-5.95	-0.68	-5.61	0.08	-1.80	-7.34	-4.31	-0.33	-1.54	4.21	**-34.7**
759	697	1,3,7,9,10,13,17,18,20,23,27,28,31,33,37,40,41,44,55	-2.38	-0.12	-6.61	-3.30	1.52	-1.46	-3.34	0.54	-0.69	-2.13	-0.31	-1.80	-7.95	-3.98	1.06	-1.54	-2.17	**-34.7**
760	1173	1,3,7,9,10,16,20,23,27,28,31,33,37,40,43,47,49,53,54	-4.14	0.14	-12.76	-1.95	3.61	-0.60	-4.06	3.34	-2.00	-2.25	-0.65	0.11	-13.08	2.28	1.06	-1.54	-2.17	**-34.7**
761	4338	2,4,7,11,17,21,28,34,35,37,42,46,48,52,53,54	-2.27	-1.41	-4.65	4.08	0.31	-1.46	0.96	3.05	-2.35	-6.99	0.86	0.11	-8.47	-9.58	-3.11	-1.54	-2.17	**-34.6**
762	3805	2,4,7,11,13,15,23,26,31,34,35,37,40,41,44,55	-2.65	-0.38	-4.11	-5.05	2.81	-2.32	-4.06	5.39	2.09	-4.71	-0.17	-1.80	-5.11	-11.56	-3.11	2.28	-2.17	**-34.6**
763	3673	2,4,3,6,9,11,17,21,27,26,31,34,35,37,40,41,44,55	-2.19	0.40	-4.33	-2.18	2.96	-0.60	-2.62	-2.46	0.55	-7.29	0.59	-1.80	-4.50	-10.90	-0.33	2.28	-2.17	**-34.6**
764	1594	1,6,10,15,23,27,28,34,35,37,40,43,47,46,48,52,53,54	-1.57	-0.64	-4.41	-0.08	-0.45	-0.60	-2.62	-3.26	-2.55	-3.04	0.29	0.11	-8.22	-6.29	2.45	-1.54	-2.17	**-34.6**
765	2758	2,4,3,6,10,13,17,21,28,34,35,37,40,43,47,46,48,52,53,54	-1.49	0.40	-4.83	3.49	0.37	0.25	-0.47	-6.71	-3.78	-6.42	0.97	0.11	-8.12	-4.31	-0.33	-1.54	-2.17	**-34.6**
766	1330	1,6,10,13,17,18,20,23,26,31,34,38,43,50,54	-4.54	-0.90	-12.67	-2.48	6.19	-1.46	-4.06	-2.08	3.90	-4.15	-0.55	-1.80	-13.64	-5.30	2.45	2.28	4.21	**-34.6**
767	381	1,3,7,11,17,18,20,23,26,31,34,35,37,42,47,50,54	-4.37	-0.12	-11.71	-0.40	3.27	-0.60	-2.62	6.21	4.03	-4.29	-0.47	-1.80	-12.32	-10.57	1.06	2.28	-2.17	**-34.6**
768	348	1,3,7,11,13,16,20,23,27,28,34,35,37,42,49,53,54	-4.69	-0.90	-12.41	-0.32	5.61	-2.32	-4.06	8.30	0.29	-2.99	-0.60	0.11	-13.64	-4.31	1.06	-1.54	-2.17	**-34.6**
769	4801	2,4,7,9,10,16,18,21,27,26,31,34,35,37,42,47,50,54	-4.12	0.92	-11.10	-3.01	4.70	0.25	-2.62	-1.91	0.81	-6.63	-0.14	-1.80	-10.17	3.26	-3.11	2.28	-2.17	**-34.6**
770	2219	1,6,9,11,13,16,20,23,26,33,37,40,43,47,49,53,54	-4.13	-0.38	-11.80	-0.13	2.80	-0.60	-4.06	3.49	0.18	-4.67	-0.16	0.11	-12.14	-5.63	2.45	2.28	-2.17	**-34.6**

Westar Energy- JEC to East Manhattan
345/230 kV Transmission Line Project
Table F-3: Weighted, Sorted Z-scores for All Routes

		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
771	3602	2,4,3,6,9,11,17,18,20,23,27,28,34,38,40,42,49,53,54	-4.19	0.14	-12.28	0.19	8.04	-2.32	-4.06	4.56	1.27	-2.81	-0.53	0.11	-13.10	-11.89	-0.33	-1.54	4.21	**-34.5**
772	3238	2,4,3,6,9,11,13,15,23,26,33,37,42,46,48,52,53,54	-1.55	-0.12	-3.50	2.02	-2.55	-3.18	-1.19	1.29	-1.24	-5.46	0.72	0.11	-6.77	-12.87	-0.33	2.28	-2.17	**-34.5**
773	334	1,3,7,11,13,16,20,23,27,28,31,33,37,40,43,50,54	-4.51	-0.38	-12.31	-0.63	3.71	-0.60	-2.62	6.21	1.41	-2.28	-0.78	-1.80	-12.96	-4.31	1.06	-1.54	-2.17	**-34.5**
774	249	1,3,7,11,13,16,18,21,28,31,33,37,42,47,50,54	-4.54	-0.12	-11.23	-1.41	4.13	1.11	-1.19	3.45	-0.74	-5.38	-0.31	-1.80	-10.51	-3.32	1.06	-1.54	-2.17	**-34.5**
775	4847	2,4,7,9,10,16,18,21,28,34,35,37,40,41,44,55	-2.82	-0.64	-5.74	-4.29	4.95	-0.60	-3.34	-2.62	-1.63	-5.77	0.03	-1.80	-6.56	3.26	-3.11	-1.54	-2.17	**-34.4**
776	1856	1,6,10,16,20,23,27,28,34,38,43,50,54	-4.94	-2.45	-13.36	-2.54	8.45	-1.46	-4.77	-2.08	2.49	-2.09	-0.93	-1.80	-14.97	0.96	2.45	-1.54	4.21	**-34.4**
777	4460	2,4,7,9,10,13,17,18,20,23,27,28,31,33,37,42,46,48,52,53,54	-1.59	0.14	-6.04	3.69	-1.86	-3.18	-0.47	0.85	-2.49	-3.04	0.43	0.11	-10.13	-3.98	-3.11	-1.54	-2.17	**-34.4**
778	4633	2,4,7,9,10,13,17,21,28,34,38,40,42,47,50,54	-4.52	-0.12	-11.89	-2.83	8.09	1.11	-1.91	-0.44	0.68	-5.24	-0.50	-1.80	-11.59	-2.99	-3.11	-1.54	4.21	**-34.4**
779	4075	2,4,7,11,13,16,20,23,26,33,37,40,43,47,49,53,54	-4.39	-0.38	-11.92	0.17	3.25	-1.46	-3.34	7.90	0.50	-4.73	-0.31	0.11	-12.45	-4.31	-3.11	2.28	-2.17	**-34.4**
780	2031	1,6,9,11,13,15,23,27,28,34,38,43,47,49,53,54	-4.37	-0.64	-10.80	-3.81	7.83	-1.46	-4.77	5.25	0.35	-2.64	-0.72	0.11	-10.93	-12.87	2.45	-1.54	4.21	**-34.4**
781	2988	2,4,3,6,10,16,18,21,28,31,33,37,42,46,48,52,53,54	-1.78	-0.38	-5.16	2.78	-0.41	-1.46	-0.47	-6.71	-4.98	-6.37	0.93	0.11	-8.31	1.95	-0.33	-1.54	-2.17	**-34.3**
782	3230	2,4,3,6,9,11,13,15,23,26,31,34,38,43,50,54	-4.32	0.40	-10.34	-3.72	6.98	-2.32	-4.06	2.76	4.09	-4.41	-0.61	-1.80	-10.21	-12.87	-0.33	2.28	4.21	**-34.3**
783	1072	1,3,7,9,10,16,18,21,27,26,33,37,40,43,50,54	-4.28	0.14	-11.28	-3.92	2.43	1.11	-1.91	-1.51	-0.40	-6.86	-0.18	-1.80	-10.22	3.26	1.06	2.28	-2.17	**-34.2**
784	4557	2,4,7,9,10,13,17,21,27,26,31,34,35,37,40,41,44,55	-2.34	0.40	-4.99	-4.23	2.69	-0.60	-2.62	-2.62	-0.21	-7.08	0.39	-1.80	-5.21	-2.99	-3.11	2.28	-2.17	**-34.2**
785	3383	2,4,3,6,9,11,13,16,18,21,27,26,33,37,40,43,47,49,53,54	-3.69	1.70	-10.41	-0.54	3.48	0.25	-2.62	0.33	-1.96	-7.30	0.30	0.11	-8.97	-4.64	-0.33	2.28	-2.17	**-34.2**
786	3887	2,4,7,11,13,15,23,27,28,34,38,43,47,49,53,54	-4.63	-0.64	-10.92	-3.52	8.28	-2.32	-4.06	9.65	0.66	-2.69	-0.87	0.11	-11.24	-11.56	-3.11	-1.54	4.21	**-34.2**
787	1570	1,6,10,15,23,26,33,37,40,43,47,46,48,52,53,54	-1.59	-1.15	-4.13	-0.33	-3.26	-0.60	-1.91	-3.26	-2.35	-5.00	0.57	0.11	-7.51	-6.29	2.45	2.28	-2.17	**-34.2**
788	1715	1,6,10,16,18,21,27,26,33,37,40,41,44,55	-2.59	-1.67	-5.35	-4.83	1.68	0.25	-3.34	-7.02	-1.76	-6.93	0.40	-1.80	-5.69	1.95	2.45	2.28	-2.17	**-34.1**
789	884	1,3,7,9,10,13,17,21,28,34,38,43,50,54	-4.88	-0.90	-12.10	-3.63	7.60	0.25	-1.91	-0.04	0.68	-5.58	-0.52	-1.80	-12.09	-2.99	1.06	-1.54	4.21	**-34.1**
790	324	1,3,7,11,13,16,20,23,26,33,37,42,49,53,54	-4.71	-1.41	-12.13	-0.57	2.79	-2.32	-3.34	8.30	0.50	-4.95	-0.32	0.11	-12.93	-4.31	1.06	2.28	-2.17	**-34.1**
791	4486	2,4,7,9,10,13,17,18,20,23,27,28,34,38,40,42,49,53,54	-4.34	0.14	-12.94	-1.85	7.77	-2.32	-4.06	4.41	0.50	-2.60	-0.73	0.11	-13.81	-3.98	-3.11	-1.54	4.21	**-34.1**
792	3525	2,4,3,6,9,11,17,18,20,23,26,31,34,35,37,40,41,44,55	-2.21	0.40	-5.46	-0.95	2.78	-2.32	-4.06	0.30	2.69	-4.63	0.17	-1.80	-6.93	-11.89	-0.33	2.28	-2.17	**-34.1**
793	53	1,3,7,11,13,15,23,26,31,34,35,37,40,43,47,49,53,54	-4.11	0.92	-10.01	-3.84	3.42	-0.60	-4.06	8.58	0.78	-4.86	-0.42	0.11	-9.62	-11.56	1.06	2.28	-2.17	**-34.1**
794	1377	1,6,10,13,17,18,20,23,27,28,34,38,40,42,47,50,54	-4.29	-0.64	-12.90	-1.89	7.47	0.25	-4.06	-2.08	2.49	-1.78	-0.83	-1.80	-13.85	-5.30	2.45	-1.54	4.21	**-34.1**
795	3014	2,4,3,6,10,16,18,21,28,34,38,40,42,49,53,54	-4.53	-0.38	-12.06	-2.76	9.23	-0.60	-4.06	-3.16	-1.98	-5.93	-0.23	0.11	-11.99	1.95	-0.33	-1.54	4.21	**-34.0**
796	3445	2,4,3,6,9,11,13,16,20,23,26,31,34,35,37,42,47,50,54	-4.02	0.92	-11.60	0.67	5.02	-1.46	-4.06	1.01	3.71	-4.18	-0.32	-1.80	-12.07	-5.63	-0.33	2.28	-2.17	**-34.0**
797	3393	2,4,3,6,9,11,13,16,18,21,28,31,33,37,40,41,44,55	-2.38	0.40	-4.98	-1.96	3.65	-0.60	-2.62	-2.46	-2.07	-5.72	0.33	-1.80	-5.12	-4.64	-0.33	-1.54	-2.17	**-34.0**
798	2106	1,6,9,11,13,16,18,21,27,26,31,34,35,37,42,49,53,54	-4.07	0.66	-10.54	-1.65	4.54	-0.60	-3.34	0.73	-0.76	-7.63	0.30	0.11	-9.68	-4.64	2.45	2.28	-2.17	**-34.0**
799	103	1,3,7,11,13,15,23,27,28,34,35,37,40,41,44,55	-2.75	-0.90	-4.55	-5.26	3.60	-1.46	-4.06	5.79	0.67	-2.67	-0.47	-1.80	-5.82	-11.56	1.06	-1.54	-2.17	**-33.9**
800	2724	2,4,3,6,10,13,17,21,27,26,31,34,38,40,42,49,53,54	-4.05	0.66	-11.31	-2.70	6.97	-0.60	-3.34	-3.16	-0.57	-7.24	0.12	0.11	-10.63	-4.31	-0.33	2.28	4.21	**-33.9**
801	1095	1,3,7,9,10,16,18,21,28,34,35,37,40,43,47,49,53,54	-4.28	0.66	-11.63	-3.08	5.57	1.11	-3.34	0.58	-2.93	-5.91	-0.22	0.11	-11.07	3.26	1.06	-1.54	-2.17	**-33.8**
802	2010	1,6,9,11,13,15,23,27,28,34,35,37,42,46,48,52,53,54	-1.71	-0.64	-3.87	1.44	-0.24	-2.32	-1.91	1.69	-1.45	-3.53	0.42	0.11	-7.70	-12.87	2.45	-1.54	-2.17	**-33.8**
803	3962	2,4,7,11,13,16,18,21,27,26,31,34,35,37,42,49,53,54	-4.32	0.66	-10.66	-1.35	4.99	-1.46	-2.62	5.14	-0.44	-7.69	0.15	0.11	-9.99	-3.32	-3.11	2.28	-2.17	**-33.8**
804	2190	1,6,9,11,13,16,20,23,26,31,34,35,37,40,43,50,54	-4.23	0.14	-11.71	-0.61	4.26	-0.60	-4.06	1.41	3.71	-4.51	-0.35	-1.80	-12.35	-5.63	2.45	2.28	-2.17	**-33.8**
805	3277	2,4,3,6,9,11,13,15,23,27,28,34,38,40,42,47,50,54	-4.07	0.66	-10.57	-3.13	8.25	-0.60	-4.06	2.76	2.67	-2.04	-0.89	-1.80	-10.42	-12.87	-0.33	-1.54	4.21	**-33.8**
806	4409	2,4,7,9,10,13,17,18,20,23,26,31,34,35,37,40,41,44,55	-2.36	0.40	-6.12	-2.99	2.52	-2.32	-4.06	0.15	1.93	-4.42	-0.03	-1.80	-7.64	-3.98	-3.11	2.28	-2.17	**-33.7**
807	4885	2,4,7,9,10,16,20,23,26,31,34,35,37,40,43,47,49,53,54	-4.11	0.66	-12.27	-1.64	4.61	-1.46	-4.77	2.94	0.63	-4.54	-0.37	0.11	-12.77	2.28	-3.11	2.28	-2.17	**-33.7**
808	417	1,3,7,11,17,18,20,23,27,28,31,33,37,40,41,44,55	-2.66	-1.15	-6.16	-1.79	1.73	-1.46	-2.62	5.50	0.39	-2.42	-0.27	-1.80	-7.77	-10.57	1.06	-1.54	-2.17	**-33.7**
809	4692	2,4,7,9,10,15,23,27,28,31,33,37,40,43,47,46,48,52,53,54	-1.41	0.40	-4.34	0.11	-1.79	-1.46	-1.19	1.14	-3.42	-2.84	0.22	0.11	-7.45	-4.97	-3.11	-1.54	-2.17	**-33.7**
810	4668	2,4,7,9,10,15,23,26,31,34,38,40,42,49,53,54	-4.38	0.14	-11.00	-5.97	6.60	-2.32	-4.77	4.69	1.00	-4.66	-0.65	0.11	-10.90	-4.97	-3.11	2.28	4.21	**-33.7**
811	256	1,3,7,11,13,16,18,21,28,34,35,37,40,43,50,54	-4.66	0.14	-11.19	-1.75	5.67	1.11	-1.91	3.45	0.47	-5.94	-0.36	-1.80	-10.96	-3.32	1.06	-1.54	-2.17	**-33.7**
812	805	1,3,7,9,10,13,17,21,27,26,31,34,35,37,40,43,47,49,53,54	-3.80	1.70	-10.89	-3.02	3.31	1.11	-2.62	0.58	-1.52	-7.23	0.13	0.11	-9.72	-2.99	1.06	2.28	-2.17	**-33.7**
813	1559	1,6,10,15,23,26,31,34,38,40,42,47,50,54	-4.32	-0.64	-10.97	-6.01	6.29	0.25	-4.77	-1.79	2.98	-3.84	-0.74	-1.80	-10.94	-6.29	2.45	2.28	4.21	**-33.7**
814	3607	2,4,3,6,9,11,17,18,20,23,27,28,34,38,43,47,49,53,54	-4.18	0.14	-12.27	0.59	8.26	-2.32	-4.06	4.56	1.27	-2.61	-0.53	0.11	-13.06	-11.89	-0.33	-1.54	4.21	**-33.6**
815	337	1,3,7,11,13,16,20,23,27,28,31,33,37,42,47,50,54	-4.48	-0.64	-12.30	-0.17	3.96	-0.60	-2.62	6.21	1.41	-1.97	-0.76	-1.80	-12.91	-4.31	1.06	-1.54	-2.17	**-33.6**
816	2324	1,6,9,11,17,18,20,23,27,28,31,33,37,42,46,48,52,53,54	-1.61	-0.90	-5.47	4.91	-2.10	-2.32	-0.47	1.41	-1.73	-3.28	0.62	0.11	-9.65	-11.89	2.45	-1.54	-2.17	**-33.6**
817	2497	1,6,9,11,17,21,28,34,38,40,42,47,50,54	-4.54	-1.15	-11.32	-1.61	7.85	1.97	-1.91	0.12	1.45	-5.48	-0.31	-1.80	-11.11	-10.90	2.45	-1.54	4.21	**-33.6**
818	3866	2,4,7,11,13,15,23,27,28,34,35,37,42,46,48,52,53,54	-1.97	-0.64	-3.99	1.74	0.21	-3.18	-1.19	6.10	-1.13	-3.58	0.27	0.11	-8.01	-11.56	-3.11	-1.54	-2.17	**-33.6**
819	4046	2,4,7,11,13,16,20,23,26,31,34,35,37,40,43,50,54	-4.49	0.14	-11.83	-0.31	4.71	-1.46	-3.34	5.81	4.03	-4.57	-0.50	-1.80	-12.66	-4.31	-3.11	2.28	-2.17	**-33.6**
820	1527	1,6,10,13,17,21,28,34,38,41,44,55	-3.19	-2.19	-6.16	-4.54	6.86	-0.60	-3.34	-5.55	-0.68	-5.64	0.06	-1.80	-7.56	-4.31	2.45	-1.54	4.21	**-33.5**
821	4935	2,4,7,9,10,16,20,23,27,28,34,35,37,40,41,44,55	-2.76	-1.15	-6.81	-3.05	4.78	-2.32	-4.77	0.15	0.52	-2.36	-0.41	-1.80	-8.97	2.28	-3.11	-1.54	-2.17	**-33.5**
822	1134	1,3,7,9,10,16,20,23,26,31,34,35,37,42,49,53,54	-4.44	-0.38	-12.48	-2.38	4.15	-2.32	-4.77	3.34	0.63	-4.77	-0.37	0.11	-13.25	2.28	1.06	2.28	-2.17	**-33.5**
823	2421	1,6,9,11,17,21,27,26,31,34,35,37,40,41,44,55	-2.37	-0.64	-4.42	-3.01	2.45	0.25	-2.62	-2.06	0.55	-7.32	0.58	-1.80	-4.73	-10.90	2.45	2.28	-2.17	**-33.5**
824	79	1,3,7,11,13,15,23,26,33,37,40,41,44,55	-2.78	-1.41	-4.28	-5.50	0.78	-1.46	-3.34	5.79	0.88	-4.64	-0.18	-1.80	-5.12	-11.56	1.06	2.28	-2.17	**-33.5**
825	1506	1,6,10,13,17,21,28,34,35,37,40,43,47,46,48,52,53,54	-1.66	-0.64	-4.92	2.66	-0.13	1.11	-0.47	-6.31	-3.78	-6.45	0.95	0.11	-8.34	-4.31	2.45	-1.54	-2.17	**-33.4**

Westar Energy- JEC to East Manhattan
345/230 kV Transmission Line Project
Table F-3: Weighted, Sorted Z-scores for All Routes

		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
826	3076	2,4,3,6,10,16,20,23,27,28,31,33,37,42,46,48,52,53,54	-1.72	-0.90	-6.24	4.01	-0.58	-3.18	-1.91	-3.95	-2.84	-2.96	0.49	0.11	-10.72	0.96	-0.33	-1.54	-2.17	**-33.4**
827	4180	2,4,7,11,17,18,20,23,27,28,31,33,37,42,46,48,52,53,54	-1.87	-0.90	-5.59	5.20	-1.65	-3.18	0.25	5.81	-1.42	-3.33	0.47	0.11	-9.96	-10.57	-3.11	-1.54	-2.17	**-33.4**
828	4353	2,4,7,11,17,21,28,34,38,40,42,47,50,54	-4.80	-1.15	-11.44	-1.32	8.29	1.11	-1.19	4.52	1.76	-5.53	-0.46	-1.80	-11.42	-9.58	-3.11	-1.54	4.21	**-33.4**
829	3354	2,4,3,6,9,11,13,16,18,21,27,26,31,34,35,37,40,43,50,54	-3.79	2.22	-10.31	-1.02	4.94	0.25	-2.62	-1.75	1.57	-7.14	0.11	-1.80	-9.18	-4.64	-0.33	2.28	-2.17	**-33.4**
830	2600	2,4,3,6,10,13,17,18,20,23,27,28,31,33,37,40,43,47,46,48,52,53,54	-1.09	0.92	-5.78	4.61	-1.59	-1.46	-1.19	-3.95	-2.84	-2.76	0.57	0.11	-9.61	-5.30	-0.33	-1.54	-2.17	**-33.4**
831	2576	2,4,3,6,10,13,17,18,20,23,26,31,34,38,40,42,49,53,54	-4.07	0.66	-12.44	-1.46	6.80	-2.32	-4.77	-0.40	1.58	-4.58	-0.30	0.11	-13.06	-5.30	-0.33	2.28	4.21	**-33.4**
832	1075	1,3,7,9,10,16,18,21,27,26,33,37,42,47,50,54	-4.24	-0.12	-11.27	-3.47	2.67	1.11	-1.91	-1.51	-0.40	-6.56	-0.16	-1.80	-10.17	3.26	1.06	2.28	-2.17	**-33.4**
833	2350	1,6,9,11,17,18,20,23,27,28,34,38,40,42,49,53,54	-4.37	-0.90	-12.37	-0.63	7.53	-1.46	-4.06	4.96	1.27	-2.84	-0.55	0.11	-13.32	-11.89	2.45	-1.54	4.21	**-33.4**
834	1986	1,6,9,11,13,15,23,26,33,37,42,46,48,52,53,54	-1.73	-1.15	-3.59	1.20	-3.05	-2.32	-1.19	1.69	-1.24	-5.49	0.71	0.11	-6.99	-12.87	2.45	2.28	-2.17	**-33.4**
835	4277	2,4,7,11,17,21,27,26,31,34,35,37,40,41,44,55	-2.62	-0.64	-4.54	-2.71	2.90	-0.60	-1.91	2.34	0.86	-7.37	0.42	-1.80	-5.04	-9.58	-3.11	2.28	-2.17	**-33.3**
836	4491	2,4,7,9,10,13,17,18,20,23,27,28,34,38,43,47,49,53,54	-4.34	0.14	-12.93	-1.46	7.99	-2.32	-4.06	4.41	0.50	-2.40	-0.73	0.11	-13.77	-3.98	-3.11	-1.54	4.21	**-33.3**
837	940	1,3,7,9,10,15,23,27,28,31,33,37,42,46,48,52,53,54	-1.74	-0.38	-4.55	-0.63	-2.25	-2.32	-1.19	1.54	-3.42	-3.07	0.22	0.11	-7.93	-4.97	1.06	-1.54	-2.17	**-33.2**
838	604	1,3,7,11,17,21,28,34,38,43,50,54	-5.16	-1.93	-11.65	-2.11	7.81	0.25	-1.19	4.92	1.76	-5.87	-0.48	-1.80	-11.91	-9.58	1.06	-1.54	4.21	**-33.2**
839	3102	2,4,3,6,10,16,20,23,27,28,34,38,40,42,49,53,54	-4.47	-0.90	-13.13	-1.53	9.06	-2.32	-5.49	-0.40	0.16	-2.52	-0.68	0.11	-14.39	0.96	-0.33	-1.54	4.21	**-33.2**
840	4206	2,4,7,11,17,18,20,23,27,28,34,38,40,42,49,53,54	-4.62	-0.90	-12.49	-0.34	7.98	-2.32	-3.34	9.37	1.58	-2.89	-0.70	0.11	-13.63	-10.57	-3.11	-1.54	4.21	**-33.2**
841	3842	2,4,7,11,13,15,23,26,33,37,42,46,48,52,53,54	-1.99	-1.15	-3.71	1.49	-2.60	-3.18	-0.47	6.10	-0.92	-5.54	0.56	0.11	-7.30	-11.56	-3.11	2.28	-2.17	**-33.2**
842	657	1,3,7,9,10,13,17,18,20,23,26,31,34,35,37,40,43,47,49,53,54	-3.82	1.70	-12.02	-1.78	3.14	-0.60	-4.06	3.34	0.63	-4.57	-0.29	0.11	-12.15	-3.98	1.06	2.28	-2.17	**-33.2**
843	3019	2,4,3,6,10,16,18,21,28,34,38,43,47,49,53,54	-4.52	-0.38	-12.05	-2.37	9.45	-0.60	-4.06	-3.16	-1.98	-5.73	-0.23	0.11	-11.95	1.95	-0.33	-1.54	4.21	**-33.2**
844	1736	1,6,10,16,18,21,28,31,33,37,42,46,48,52,53,54	-1.95	-1.41	-5.25	1.95	-0.91	-0.60	-0.47	-6.31	-4.98	-6.40	0.92	0.11	-8.54	1.95	2.45	-1.54	-2.17	**-33.2**
845	3481	2,4,3,6,9,11,13,16,20,23,27,28,31,33,37,40,41,44,55	-2.32	-0.12	-6.05	-0.72	3.48	-2.32	-4.06	0.30	0.07	-2.31	-0.12	-1.80	-7.53	-5.63	-0.33	-1.54	-2.17	**-33.2**
846	3710	2,4,3,6,9,11,17,21,27,26,33,37,42,46,48,52,53,54	-1.53	-0.38	-3.93	4.36	-2.45	-1.46	0.96	-1.75	-2.46	-8.12	1.31	0.11	-6.69	-10.90	-0.33	2.28	-2.17	**-33.2**
847	1978	1,6,9,11,13,15,23,26,31,34,38,43,50,54	-4.49	-0.64	-10.43	-4.54	6.47	-1.46	-4.06	3.16	4.09	-4.44	-0.62	-1.80	-10.44	-12.87	2.45	2.28	4.21	**-33.1**
848	3586	2,4,3,6,9,11,17,18,20,23,27,28,34,35,37,42,46,48,52,53,54	-1.52	0.14	-5.33	5.84	0.19	-3.18	-1.19	1.01	-0.52	-3.50	0.61	0.11	-9.83	-11.89	-0.33	-1.54	-2.17	**-33.1**
849	4911	2,4,7,9,10,16,20,23,26,33,37,40,41,44,55	-2.78	-1.67	-6.54	-3.30	1.96	-2.32	-4.06	0.15	0.72	-4.32	-0.13	-1.80	-8.27	2.28	-3.11	2.28	-2.17	**-33.1**
850	2131	1,6,9,11,13,16,18,21,27,26,33,37,40,43,47,49,53,54	-3.86	0.66	-10.49	-1.36	2.97	1.11	-2.62	0.73	-1.96	-7.33	0.28	0.11	-9.19	-4.64	2.45	2.28	-2.17	**-33.0**
851	831	1,3,7,9,10,13,17,21,27,26,33,37,40,41,44,55	-2.47	-0.64	-5.15	-4.68	0.67	0.25	-1.91	-2.22	-1.42	-7.01	0.37	-1.80	-5.21	-2.99	1.06	2.28	-2.17	**-33.0**
852	2729	2,4,3,6,10,13,17,21,27,26,31,34,38,43,47,49,53,54	-4.04	0.66	-11.30	-2.30	7.19	-0.60	-3.34	-3.16	-0.57	-7.05	0.13	0.11	-10.60	-4.31	-0.33	2.28	4.21	**-33.0**
853	707	1,3,7,9,10,13,17,18,20,23,27,28,34,35,37,40,41,44,55	-2.47	-0.12	-6.56	-3.19	3.31	-1.46	-4.06	0.54	0.52	-2.39	-0.33	-1.80	-8.35	-3.98	1.06	-1.54	-2.17	**-33.0**
854	1183	1,3,7,9,10,16,20,23,27,28,34,35,37,40,43,47,49,53,54	-4.22	0.14	-12.71	-1.84	5.40	-0.60	-4.77	3.34	-0.79	-2.50	-0.67	0.11	-13.48	2.28	1.06	-1.54	-2.17	**-33.0**
855	2273	1,6,9,11,17,18,20,23,26,31,34,35,37,40,41,44,55	-2.38	-0.64	-5.55	-1.77	2.28	-1.46	-4.06	0.70	2.69	-4.66	0.16	-1.80	-7.16	-11.89	2.45	2.28	-2.17	**-33.0**
856	966	1,3,7,9,10,15,23,27,28,34,38,40,42,49,53,54	-4.49	-0.38	-11.44	-6.17	7.39	-1.46	-4.77	5.09	-0.42	-2.63	-0.95	0.11	-11.60	-4.97	1.06	-1.54	4.21	**-33.0**
857	3720	2,4,3,6,9,11,17,21,28,31,33,37,40,43,47,46,48,52,53,54	-1.35	0.40	-4.19	4.89	-1.21	0.25	0.96	-1.75	-3.88	-6.46	1.09	0.11	-6.87	-10.90	-0.33	-1.54	-2.17	**-32.9**
858	3834	2,4,7,11,13,15,23,26,31,34,38,43,50,54	-4.75	-0.64	-10.55	-4.24	6.92	-2.32	-3.34	7.57	4.40	-4.49	-0.77	-1.80	-10.75	-11.56	-3.11	2.28	4.21	**-32.9**
859	1762	1,6,10,16,18,21,28,34,38,40,42,49,53,54	-4.70	-1.41	-12.15	-3.59	8.72	0.25	-4.06	-2.76	-1.98	-5.96	-0.25	0.11	-12.21	1.95	2.45	-1.54	4.21	**-32.9**
860	3702	2,4,3,6,9,11,17,21,27,26,31,34,38,43,50,54	-4.29	0.14	-10.76	-1.38	7.07	-0.60	-1.91	-0.28	2.86	-7.07	-0.01	-1.80	-10.14	-10.90	-0.33	2.28	4.21	**-32.9**
861	2193	1,6,9,11,13,16,20,23,26,31,34,35,37,42,47,50,54	-4.20	-0.12	-11.69	-0.16	4.51	-0.60	-4.06	1.41	3.71	-4.21	-0.33	-1.80	-12.30	-5.63	2.45	2.28	-2.17	**-32.9**
862	2141	1,6,9,11,13,16,18,21,28,31,33,37,40,41,44,55	-2.55	-0.64	-5.07	-2.78	3.14	0.25	-2.62	-2.06	-2.07	-5.75	0.32	-1.80	-5.35	-4.64	2.45	-1.54	-2.17	**-32.9**
863	3987	2,4,7,11,13,16,18,21,27,26,33,37,40,43,47,49,53,54	-4.12	0.66	-10.61	-1.07	3.42	0.25	-1.91	5.14	-1.65	-7.39	0.13	0.11	-9.50	-3.32	-3.11	2.28	-2.17	**-32.9**
864	344	1,3,7,11,13,16,20,23,27,28,34,35,37,40,43,50,54	-4.60	-0.38	-12.27	-0.52	5.50	-0.60	-3.34	6.21	2.61	-2.53	-0.80	-1.80	-13.36	-4.31	1.06	-1.54	-2.17	**-32.8**
865	259	1,3,7,11,13,16,18,21,28,34,35,37,42,47,50,54	-4.62	-0.12	-11.18	-1.30	5.92	1.11	-1.91	3.45	0.47	-5.63	-0.34	-1.80	-10.91	-3.32	1.06	-1.54	-2.17	**-32.8**
866	4673	2,4,7,9,10,15,23,26,31,34,38,43,47,49,53,54	-4.37	0.14	-10.99	-5.57	6.82	-2.32	-4.77	4.69	1.00	-4.47	-0.64	0.11	-10.86	-4.97	-3.11	2.28	4.21	**-32.8**
867	3025	2,4,3,6,10,16,20,23,26,31,34,35,37,40,41,44,55	-2.48	-0.64	-6.31	-2.66	3.81	-2.32	-5.49	-4.66	1.59	-4.34	0.02	-1.80	-8.23	0.96	-0.33	2.28	-2.17	**-32.8**
868	4129	2,4,7,11,17,18,20,23,26,31,34,35,37,40,41,44,55	-2.64	-0.64	-5.67	-1.47	2.73	-2.32	-3.34	5.10	3.01	-4.71	0.01	-1.80	-7.47	-10.57	-3.11	2.28	-2.17	**-32.8**
869	4594	2,4,7,9,10,13,17,21,27,26,33,37,42,46,48,52,53,54	-1.68	-0.38	-4.59	2.32	-2.72	-1.46	0.96	-1.91	-3.23	-7.92	1.11	0.11	-7.40	-2.99	-3.11	2.28	-2.17	**-32.8**
870	1472	1,6,10,13,17,21,27,26,31,34,38,40,42,49,53,54	-4.23	-0.38	-11.40	-3.52	6.47	0.25	-3.34	-2.76	-0.57	-7.27	0.11	0.11	-10.86	-4.31	2.45	2.28	4.21	**-32.8**
871	525	1,3,7,11,17,21,27,26,31,34,35,37,40,43,47,49,53,54	-4.08	0.66	-10.44	-1.50	3.52	1.11	-1.91	5.54	-0.44	-7.52	0.17	0.11	-9.54	-9.58	1.06	2.28	-2.17	**-32.7**
872	4470	2,4,7,9,10,13,17,18,20,23,27,28,34,35,37,42,46,48,52,53,54	-1.68	0.14	-5.99	3.80	-0.07	-3.18	-1.19	0.85	-1.29	-3.29	0.41	0.11	-10.53	-3.98	-3.11	-1.54	-2.17	**-32.7**
873	4049	2,4,7,11,13,16,20,23,26,31,34,35,37,42,47,50,54	-4.46	-0.12	-11.81	0.14	4.96	-1.46	-3.34	5.81	4.03	-4.26	-0.48	-1.80	-12.61	-4.31	-3.11	2.28	-2.17	**-32.7**
874	3997	2,4,7,11,13,16,18,21,28,31,33,37,40,41,44,55	-2.81	-0.64	-5.19	-2.48	3.59	-0.60	-1.91	2.34	-1.76	-5.81	0.16	-1.80	-5.66	-3.32	-3.11	-1.54	-2.17	**-32.7**
875	4876	2,4,7,9,10,16,18,21,28,34,38,43,50,54	-4.92	-0.90	-12.17	-3.49	9.07	-0.60	-2.62	-0.44	0.68	-5.55	-0.57	-1.80	-12.20	3.26	-3.11	-1.54	4.21	**-32.7**
876	3562	2,4,3,6,9,11,17,18,20,23,26,33,37,42,46,48,52,53,54	-1.54	-0.38	-5.06	5.60	-2.63	-3.18	-0.47	1.01	-0.32	-5.46	0.89	0.11	-9.12	-11.89	-0.33	2.28	-2.17	**-32.7**
877	2998	2,4,3,6,10,16,18,21,28,34,35,37,42,46,48,52,53,54	-1.86	-0.38	-5.11	2.89	1.38	-1.46	-1.19	-6.71	-3.78	-6.62	0.91	0.11	-8.71	1.95	-0.33	-1.54	-2.17	**-32.6**
878	236	1,3,7,11,13,16,18,21,27,26,33,37,42,49,53,54	-4.45	-0.38	-10.82	-1.81	2.96	-0.60	-1.91	5.54	-1.65	-7.61	0.13	0.11	-9.99	-3.32	1.06	2.28	-2.17	**-32.6**
879	2025	1,6,9,11,13,15,23,27,28,34,38,40,42,47,50,54	-4.24	-0.38	-10.66	-3.95	7.75	0.25	-4.06	3.16	2.67	-2.07	-0.90	-1.80	-10.65	-12.87	2.45	-1.54	4.21	**-32.6**
880	4604	2,4,7,9,10,13,17,21,28,31,33,37,40,43,47,46,48,52,53,54	-1.50	0.40	-4.85	2.85	-1.47	0.25	0.96	-1.91	-4.64	-6.25	0.89	0.11	-7.58	-2.99	-3.11	-1.54	-2.17	**-32.6**

Table F-3: Weighted, Sorted Z-scores for All Routes

Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
881	889	1,3,7,9,10,15,23,26,31,34,35,37,40,41,44,55	-2.50	-0.12	-4.62	-7.31	2.14	-1.46	-4.77	0.83	1.01	-4.45	-0.24	-1.80	-5.44	-4.97	1.06	2.28	-2.17	**-32.5**
882	683	1,3,7,9,10,13,17,18,20,23,26,33,37,40,41,44,55	-2.49	-0.64	-6.28	-3.44	0.49	-1.46	-3.34	0.54	0.72	-4.35	-0.05	-1.80	-7.64	-3.98	1.06	2.28	-2.17	**-32.5**
883	1159	1,3,7,9,10,16,20,23,26,33,37,40,43,47,49,53,54	-4.24	-0.38	-12.43	-2.09	2.58	-0.60	-4.06	3.34	-0.58	-4.46	-0.39	0.11	-12.77	2.28	1.06	2.28	-2.17	**-32.5**
884	3357	2,4,3,6,9,11,13,16,18,21,27,26,31,34,35,37,42,47,50,54	-3.76	1.96	-10.29	-0.57	5.19	0.25	-2.62	-1.75	1.57	-6.84	0.13	-1.80	-9.13	-4.64	-0.33	2.28	-2.17	**-32.5**
885	4586	2,4,7,9,10,13,17,21,27,26,31,34,38,43,50,54	-4.45	0.14	-11.42	-3.42	6.81	-0.60	-1.91	-0.44	2.10	-6.87	-0.22	-1.80	-10.84	-2.99	-3.11	2.28	4.21	**-32.5**
886	2581	2,4,3,6,10,13,17,18,20,23,26,31,34,38,43,47,49,53,54	-4.06	0.66	-12.43	-1.06	7.02	-2.32	-4.77	-0.40	1.58	-4.39	-0.29	0.11	-13.03	-5.30	-0.33	2.28	4.21	**-32.5**
887	2355	1,6,9,11,17,18,20,23,27,28,34,38,43,47,49,53,54	-4.36	-0.90	-12.35	-0.24	7.75	-1.46	-4.06	4.96	1.27	-2.64	-0.54	0.11	-13.29	-11.89	2.45	-1.54	4.21	**-32.5**
888	2708	2,4,3,6,10,13,17,21,27,26,31,34,35,37,42,46,48,52,53,54	-1.38	0.66	-4.37	2.95	-0.87	-1.46	-0.47	-6.71	-2.36	-7.94	1.27	0.11	-7.36	-4.31	-0.33	2.28	-2.17	**-32.5**
889	3881	2,4,7,11,13,15,23,27,28,34,38,40,42,47,50,54	-4.50	-0.38	-10.78	-3.66	8.20	-0.60	-3.34	7.57	2.99	-2.12	-1.05	-1.80	-10.96	-11.56	-3.11	-1.54	4.21	**-32.4**
890	2861	2,4,3,6,10,15,23,27,28,34,36,39,44,55	-3.67	-0.90	0.12	-5.03	0.37	-4.03	-6.21	-3.80	-0.87	9.57	-2.30	-1.80	-3.53	-6.29	-0.33	-1.54	-2.17	**-32.4**
891	3554	2,4,3,6,9,11,17,18,20,23,26,31,34,38,43,50,54	-4.31	0.14	-11.89	-0.14	6.90	-2.32	-3.34	2.48	5.01	-4.41	-0.43	-1.80	-12.57	-11.89	-0.33	2.28	4.21	**-32.4**
892	320	1,3,7,11,13,16,20,23,26,33,37,40,43,50,54	-4.62	-0.90	-11.99	-0.76	2.69	-0.60	-2.62	6.21	2.82	-4.49	-0.52	-1.80	-12.66	-4.31	1.06	2.28	-2.17	**-32.4**
893	3403	2,4,3,6,9,11,13,16,18,21,28,34,35,37,40,41,44,55	-2.46	0.40	-4.93	-1.85	5.43	-0.60	-3.34	-2.46	-0.87	-5.98	0.30	-1.80	-5.53	-4.64	-0.33	-1.54	-2.17	**-32.4**
894	3107	2,4,3,6,10,16,20,23,27,28,34,38,43,47,49,53,54	-4.46	-0.90	-13.12	-1.13	9.28	-2.32	-5.49	-0.40	0.16	-2.32	-0.68	0.11	-14.36	0.96	-0.33	-1.54	4.21	**-32.3**
895	4211	2,4,7,11,17,18,20,23,27,28,34,38,43,47,49,53,54	-4.62	-0.90	-12.47	0.06	8.20	-2.32	-3.34	9.37	1.58	-2.69	-0.69	0.11	-13.60	-10.57	-3.11	-1.54	4.21	**-32.3**
896	1824	1,6,10,16,20,23,27,28,31,33,37,42,46,48,52,53,54	-1.89	-1.93	-6.32	3.19	-1.08	-2.32	-1.91	-3.55	-2.84	-2.99	0.48	0.11	-10.94	0.96	2.45	-1.54	-2.17	**-32.3**
897	4652	2,4,7,9,10,15,23,26,31,34,35,37,42,46,48,52,53,54	-1.71	0.14	-4.06	-0.32	-1.25	-3.18	-1.91	1.14	-0.80	-5.36	0.50	0.11	-7.63	-4.97	-3.11	2.28	-2.17	**-32.3**
898	4446	2,4,7,9,10,13,17,18,20,23,26,33,37,42,46,48,52,53,54	-1.70	-0.38	-5.72	3.55	-2.89	-3.18	-0.47	0.85	-1.08	-5.26	0.69	0.11	-9.83	-3.98	-3.11	2.28	-2.17	**-32.3**
899	2102	1,6,9,11,13,16,18,21,27,26,31,34,35,37,40,43,50,54	-3.97	1.18	-10.40	-1.84	4.43	1.11	-2.62	-1.35	1.57	-7.17	0.09	-1.80	-9.40	-4.64	2.45	2.28	-2.17	**-32.3**
900	1348	1,6,10,13,17,18,20,23,27,28,31,33,37,40,43,47,46,48,52,53,54	-1.27	-0.12	-5.86	3.79	-2.09	-0.60	-1.19	-3.55	-2.84	-2.79	0.56	0.11	-9.84	-5.30	2.45	-1.54	-2.17	**-32.3**
901	1324	1,6,10,13,17,18,20,23,26,31,34,38,40,42,49,53,54	-4.24	-0.38	-12.53	-2.28	6.30	-1.46	-4.77	0.00	1.58	-4.61	-0.31	0.11	-13.29	-5.30	2.45	2.28	4.21	**-32.2**
902	377	1,3,7,11,17,18,20,23,26,31,34,35,37,40,43,47,49,53,54	-4.10	0.66	-11.57	-0.26	3.35	-0.60	-3.34	8.30	1.70	-4.86	-0.25	0.11	-11.97	-10.57	1.06	2.28	-2.17	**-32.2**
903	4797	2,4,7,9,10,16,18,21,27,26,31,34,35,37,40,43,47,49,53,54	-3.85	1.70	-10.96	-2.88	4.78	0.25	-3.34	0.18	-1.52	-7.20	0.08	0.11	-9.83	3.26	-3.11	2.28	-2.17	**-32.2**
904	132	1,3,7,11,13,15,23,27,28,34,38,43,50,54	-4.86	-1.15	-10.99	-4.45	7.71	-1.46	-3.34	7.97	2.99	-2.46	-1.07	-1.80	-11.45	-11.56	1.06	-1.54	4.21	**-32.2**
905	245	1,3,7,11,13,16,18,21,28,31,33,37,40,43,47,49,53,54	-4.27	0.66	-11.08	-1.27	4.21	1.11	-1.91	5.54	-3.06	-5.95	-0.09	0.11	-10.16	-3.32	1.06	-1.54	-2.17	**-32.2**
906	4723	2,4,7,9,10,15,23,27,28,34,38,41,44,55	-3.02	-1.15	-5.53	-6.99	6.99	-3.18	-4.77	1.90	0.89	-2.28	-0.69	-1.80	-7.06	-4.97	-3.11	-1.54	4.21	**-32.1**
907	551	1,3,7,11,17,21,27,26,33,37,40,41,44,55	-2.75	-1.67	-4.70	-3.16	0.87	0.25	-1.19	2.74	-0.34	-7.30	0.41	-1.80	-5.04	-9.58	1.06	2.28	-2.17	**-32.1**
908	971	1,3,7,9,10,15,23,27,28,34,38,43,47,49,53,54	-4.48	-0.38	-11.43	-5.78	7.61	-1.46	-4.77	5.09	-0.42	-2.43	-0.94	0.11	-11.57	-4.97	1.06	-1.54	4.21	**-32.1**
909	3958	2,4,7,11,13,16,18,21,27,26,31,34,35,37,40,43,50,54	-4.22	1.18	-10.52	-1.55	4.88	0.25	-1.91	3.05	1.88	-7.23	-0.06	-1.80	-9.71	-3.32	-3.11	2.28	-2.17	**-32.1**
910	852	1,3,7,9,10,13,17,21,28,31,33,37,42,46,48,52,53,54	-1.83	-0.38	-5.06	2.11	-1.93	-0.60	0.96	-1.51	-4.64	-6.48	0.89	0.11	-8.06	-2.99	1.06	-1.54	-2.17	**-32.1**
911	1850	1,6,10,16,20,23,27,28,34,38,40,42,49,53,54	-4.64	-1.93	-13.22	-2.35	8.55	-1.46	-5.49	0.00	0.16	-2.55	-0.69	0.11	-14.62	0.96	2.45	-1.54	4.21	**-32.0**
912	427	1,3,7,11,17,18,20,23,27,28,34,35,37,40,41,44,55	-2.75	-1.15	-6.11	-1.68	3.52	-1.46	-3.34	5.50	1.59	-2.68	-0.29	-1.80	-8.17	-10.57	1.06	-1.54	-2.17	**-32.0**
913	1767	1,6,10,16,18,21,28,34,38,43,47,49,53,54	-4.70	-1.41	-12.13	-3.19	8.94	0.25	-4.06	-2.76	-1.98	-5.76	-0.24	0.11	-12.17	1.95	2.45	-1.54	4.21	**-32.0**
914	4702	2,4,7,9,10,15,23,27,28,34,35,37,40,43,47,46,48,52,53,54	-1.49	0.40	-4.29	0.22	0.00	-1.46	-1.91	1.14	-2.21	-3.09	0.20	0.11	-7.85	-4.97	-3.11	-1.54	-2.17	**-32.0**
915	2229	1,6,9,11,13,16,20,23,27,28,31,33,37,40,41,44,55	-2.49	-1.15	-6.14	-1.54	2.97	-1.46	-4.06	0.70	0.07	-2.34	-0.13	-1.80	-7.76	-5.63	2.45	-1.54	-2.17	**-32.0**
916	2458	1,6,9,11,17,21,27,26,33,37,42,46,48,52,53,54	-1.71	-1.41	-4.02	3.53	-2.96	-0.60	0.96	-1.35	-2.46	-8.15	1.30	0.11	-6.92	-10.90	2.45	2.28	-2.17	**-32.0**
917	4438	2,4,7,9,10,13,17,18,20,23,26,31,34,38,43,50,54	-4.46	0.14	-12.55	-2.18	6.64	-2.32	-3.34	2.33	4.24	-4.21	-0.64	-1.80	-13.27	-3.98	-3.11	2.28	4.21	**-32.0**
918	1046	1,3,7,9,10,16,18,21,27,26,31,34,35,37,42,49,53,54	-4.18	0.66	-11.17	-3.61	4.32	-0.60	-3.34	0.58	-1.52	-7.43	0.07	0.11	-10.31	3.26	1.06	2.28	-2.17	**-32.0**
919	2560	2,4,3,6,10,13,17,18,20,23,26,31,34,35,37,42,46,48,52,53,54	-1.40	0.66	-5.50	4.19	-1.04	-3.18	-1.91	-3.95	-0.22	-5.28	0.85	0.11	-9.79	-5.30	-0.33	2.28	-2.17	**-32.0**
920	347	1,3,7,11,13,16,20,23,27,28,34,35,37,42,47,50,54	-4.56	-0.64	-12.25	-0.07	5.75	-0.60	-3.34	6.21	2.61	-2.22	-0.78	-1.80	-13.31	-4.31	1.06	-1.54	-2.17	**-32.0**
921	2334	1,6,9,11,17,18,20,23,27,28,34,35,37,42,46,48,52,53,54	-1.70	-0.90	-5.42	5.02	-0.31	-2.32	-1.19	1.41	-0.52	-3.53	0.60	0.11	-10.05	-11.89	2.45	-1.54	-2.17	**-32.0**
922	3248	2,4,3,6,9,11,13,15,23,27,28,31,33,37,40,43,47,46,48,52,53,54	-1.05	1.18	-3.53	2.55	-1.30	-1.46	-1.19	1.29	-2.65	-3.05	0.50	0.11	-6.41	-12.87	-0.33	-1.54	-2.17	**-31.9**
923	3224	2,4,3,6,9,11,13,15,23,26,31,34,38,40,42,49,53,54	-4.02	0.92	-10.20	-3.52	7.08	-2.32	-4.77	4.85	1.76	-4.87	-0.37	0.11	-9.86	-12.87	-0.33	2.28	4.21	**-31.9**
924	3601	2,4,3,6,9,11,17,18,23,27,28,34,38,40,42,47,50,54	-4.06	0.40	-12.13	0.45	8.18	-0.60	-3.34	2.48	3.59	-2.04	-0.72	-1.80	-12.78	-11.89	-0.33	-1.54	4.21	**-31.9**
925	1477	1,6,10,13,17,21,27,26,31,34,38,43,47,49,53,54	-4.22	-0.38	-11.39	-3.12	6.69	0.25	-3.34	-2.76	-0.57	-7.08	0.11	0.11	-10.82	-4.31	2.45	2.28	4.21	**-31.9**
926	4085	2,4,7,11,13,16,20,23,27,28,31,33,37,40,41,44,55	-2.75	-1.15	-6.26	-1.25	3.42	-2.32	-3.34	5.10	0.39	-2.39	-0.28	-1.80	-8.07	-4.31	-3.11	-1.54	-2.17	**-31.8**
927	4314	2,4,7,11,17,21,27,26,33,37,42,46,48,52,53,54	-1.96	-1.41	-4.14	3.83	-2.51	-1.46	1.68	3.05	-2.15	-8.21	1.15	0.11	-7.23	-9.58	-3.11	2.28	-2.17	**-31.8**
928	4964	2,4,7,9,10,16,20,23,27,28,34,38,43,50,54	-4.86	-1.41	-13.24	-2.25	8.89	-2.32	-4.06	2.33	2.83	-2.14	-1.02	-1.80	-14.60	2.28	-3.11	-1.54	4.21	**-31.8**
929	878	1,3,7,9,10,13,17,21,28,34,38,40,42,49,53,54	-4.58	-0.38	-11.96	-3.43	7.71	0.25	-2.62	2.05	-1.64	-6.04	-0.28	0.11	-11.73	-2.99	1.06	-1.54	4.21	**-31.8**
930	2631	2,4,3,6,10,13,17,18,20,23,27,28,34,38,41,44,55	-2.71	-0.64	-6.97	-2.48	7.19	-3.18	-4.77	-3.19	1.47	-2.20	-0.34	-1.80	-9.23	-5.30	-0.33	-1.54	4.21	**-31.8**
931	2468	1,6,9,11,17,21,28,31,33,37,40,43,47,46,48,52,53,54	-1.53	-0.64	-4.28	4.07	-1.71	1.11	0.96	-1.35	-3.88	-6.49	1.08	0.11	-7.09	-10.90	2.45	-1.54	-2.17	**-31.8**
932	2734	2,4,3,6,10,13,17,21,27,26,33,37,40,43,47,46,48,52,53,54	-1.18	0.40	-4.32	3.24	-2.44	0.25	0.25	-6.71	-3.57	-7.64	1.25	0.11	-6.88	-4.31	-0.33	2.28	-2.17	**-31.8**
933	3086	2,4,3,6,10,16,20,23,27,28,34,35,37,42,46,48,52,53,54	-1.80	-0.90	-6.19	4.12	1.21	-3.18	-2.62	-3.95	-1.63	-3.21	0.46	0.11	-11.12	0.96	-0.33	-1.54	-2.17	**-31.8**
934	4190	2,4,7,11,17,18,20,23,27,28,34,35,37,42,46,48,52,53,54	-1.96	-0.90	-5.54	5.31	0.14	-3.18	-0.47	5.81	-0.21	-3.58	0.45	0.11	-10.36	-10.57	-3.11	-1.54	-2.17	**-31.8**
935	2450	1,6,9,11,17,21,27,26,31,34,38,43,50,54	-4.47	-0.90	-10.85	-2.20	6.57	0.25	-1.91	0.12	2.86	-7.10	-0.03	-1.80	-10.36	-10.90	2.45	2.28	4.21	**-31.8**

Table F-3: Weighted, Sorted Z-scores for All Routes

Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
936	1130	1,3,7,9,10,16,20,23,26,31,34,35,37,40,43,50,54	-4.34	0.14	-12.34	-2.57	4.04	-0.60	-4.06	1.25	2.95	-4.31	-0.58	-1.80	-12.98	2.28	1.06	2.28	-2.17	**-31.7**
937	2610	2,4,3,6,10,13,17,18,20,23,27,28,34,35,37,40,43,47,46,48,52,53,54	-1.18	0.92	-5.73	4.72	0.20	-1.46	-1.91	-3.95	-1.63	-3.01	0.55	0.11	-10.01	-5.30	-0.33	-1.54	-2.17	**-31.7**
938	3441	2,4,3,6,9,11,13,16,20,23,26,31,34,35,37,40,43,47,49,53,54	-3.76	1.70	-11.46	0.81	5.09	-1.46	-4.77	3.09	1.39	-4.75	-0.10	0.11	-11.73	-5.63	-0.33	2.28	-2.17	**-31.7**
939	1773	1,6,10,16,20,23,26,31,34,35,37,40,41,44,55	-2.66	-1.67	-6.40	-3.49	3.30	-1.46	-5.49	-4.26	1.59	-4.37	0.01	-1.80	-8.45	0.96	2.45	2.28	-2.17	**-31.6**
940	4324	2,4,7,11,17,21,28,31,33,37,40,43,47,46,48,52,53,54	-1.78	-0.64	-4.40	4.36	-1.26	0.25	1.68	3.05	-3.56	-6.54	0.93	0.11	-7.40	-9.58	-3.11	-1.54	-2.17	**-31.6**
941	403	1,3,7,11,17,18,20,23,26,33,37,40,41,44,55	-2.77	-1.67	-5.83	-1.92	0.70	-1.46	-2.62	5.50	1.80	-4.64	-0.01	-1.80	-7.47	-10.57	1.06	2.28	-2.17	**-31.6**
942	4678	2,4,7,9,10,15,23,26,33,37,40,43,47,46,48,52,53,54	-1.51	-0.12	-4.01	-0.03	-2.82	-1.46	-1.19	1.14	-2.00	-5.06	0.48	0.11	-7.14	-4.97	-3.11	2.28	-2.17	**-31.6**
943	4823	2,4,7,9,10,16,18,21,27,26,33,37,40,41,44,55	-2.52	-0.64	-5.23	-4.54	2.13	-0.60	-2.62	-2.62	-1.42	-6.98	0.31	-1.80	-5.32	3.26	-3.11	2.28	-2.17	**-31.6**
944	4306	2,4,7,11,17,21,27,26,31,34,38,43,50,54	-4.72	-0.90	-10.97	-1.90	7.02	-0.60	-1.19	4.52	3.18	-7.16	-0.18	-1.80	-10.67	-9.58	-3.11	2.28	4.21	**-31.6**
945	950	1,3,7,9,10,15,23,27,28,34,35,37,42,46,48,52,53,54	-1.82	-0.38	-4.50	-0.52	-0.46	-2.32	-1.91	1.54	-2.21	-3.32	0.20	0.11	-8.33	-4.97	1.06	-1.54	-2.17	**-31.5**
946	323	1,3,7,11,13,16,20,23,26,33,37,42,47,50,54	-4.58	-1.15	-11.98	-0.31	2.94	-0.60	-2.62	6.21	2.82	-4.19	-0.50	-1.80	-12.61	-4.31	1.06	2.28	-2.17	**-31.5**
947	2310	1,6,9,11,17,18,20,23,26,33,37,42,46,48,52,53,54	-1.72	-1.41	-5.15	4.77	-3.13	-2.32	-0.47	1.41	-0.32	-5.49	0.88	0.11	-9.35	-11.89	2.45	2.28	-2.17	**-31.5**
948	4485	2,4,7,9,10,13,17,18,20,23,27,28,34,38,40,42,47,50,54	-4.21	0.40	-12.78	-1.59	7.91	-0.60	-3.34	2.33	2.83	-1.83	-0.92	-1.80	-13.49	-3.98	-3.11	-1.54	4.21	**-31.5**
949	1746	1,6,10,16,18,21,28,34,35,37,42,46,48,52,53,54	-2.04	-1.41	-5.20	2.06	0.88	-0.60	-1.19	-6.31	-3.78	-6.65	0.90	0.11	-8.94	1.95	2.45	-1.54	-2.17	**-31.5**
950	3491	2,4,3,6,9,11,13,16,20,23,27,28,34,35,37,40,41,44,55	-2.40	-0.12	-6.00	-0.61	5.26	-2.32	-4.77	0.30	1.28	-2.56	-0.14	-1.80	-7.93	-5.63	-0.33	-1.54	-2.17	**-31.5**
951	3013	2,4,3,6,10,16,18,21,28,34,38,40,42,47,50,54	-4.40	-0.12	-11.90	-2.51	9.37	1.11	-3.34	-5.24	0.34	-5.16	-0.42	-1.80	-11.66	1.95	-0.33	-1.54	4.21	**-31.4**
952	2105	1,6,9,11,13,16,18,21,27,26,31,34,35,37,42,47,50,54	-3.94	0.92	-10.38	-1.39	4.68	1.11	-2.62	-1.35	1.57	-6.87	0.12	-1.80	-9.35	-4.64	2.45	2.28	-2.17	**-31.4**
953	1329	1,6,10,13,17,18,20,23,26,31,34,38,43,47,49,53,54	-4.24	-0.38	-12.52	-1.89	6.52	-1.46	-4.77	0.00	1.58	-4.41	-0.30	0.11	-13.25	-5.30	2.45	2.28	4.21	**-31.4**
954	2813	2,4,3,6,10,15,23,26,31,34,38,41,44,55	-2.74	-0.64	-5.04	-6.59	6.02	-3.18	-5.49	-2.90	1.96	-4.27	-0.25	-1.80	-6.32	-6.29	-0.33	2.28	4.21	**-31.4**
955	3751	2,4,3,6,9,11,17,21,28,34,38,41,44,55	-2.96	-1.15	-5.39	-2.20	7.57	-1.46	-2.62	-0.99	0.43	-5.91	0.18	-1.80	-6.48	-10.90	-0.33	-1.54	4.21	**-31.4**
956	1456	1,6,10,13,17,21,27,26,31,34,35,37,42,46,48,52,53,54	-1.56	-0.38	-4.45	2.13	-1.38	-0.60	-0.47	-6.31	-2.36	-7.97	1.25	0.11	-7.59	-4.31	2.45	2.28	-2.17	**-31.3**
957	3062	2,4,3,6,10,16,20,23,26,33,37,42,46,48,52,53,54	-1.82	-1.41	-5.91	3.88	-1.60	-3.18	-1.91	-3.95	-1.42	-5.17	0.75	0.11	-10.42	0.96	-0.33	2.28	-2.17	**-31.3**
958	4166	2,4,7,11,17,18,20,23,26,33,37,42,46,48,52,53,54	-1.98	-1.41	-5.27	5.07	-2.68	-3.18	0.25	5.81	0.00	-5.55	0.73	0.11	-9.66	-10.57	-3.11	2.28	-2.17	**-31.3**
959	333	1,3,7,11,13,16,20,23,27,28,31,33,37,40,43,47,49,53,54	-4.21	0.14	-12.16	-0.04	4.04	-0.60	-3.34	8.30	-0.92	-2.54	-0.54	0.11	-12.57	-4.31	1.06	-1.54	-2.17	**-31.3**
960	2792	2,4,3,6,10,15,23,26,31,34,35,37,40,43,47,46,48,52,53,54	-1.22	0.92	-3.79	0.61	-0.97	-1.46	-2.62	-3.66	-1.14	-5.08	0.64	0.11	-7.11	-6.29	-0.33	2.28	-2.17	**-31.3**
961	2937	2,4,3,6,10,16,18,21,27,26,31,34,35,37,40,41,44,55	-2.22	0.40	-5.01	-3.90	3.98	-0.60	-4.06	-7.42	-0.56	-7.00	0.47	-1.80	-5.28	1.95	-0.33	2.28	-2.17	**-31.3**
962	736	1,3,7,9,10,13,17,18,20,23,27,28,34,38,43,50,54	-4.57	-0.38	-12.99	-2.39	7.43	-1.46	-3.34	2.72	2.83	-2.17	-0.94	-1.80	-13.98	-3.98	1.06	-1.54	4.21	**-31.3**
963	2723	2,4,3,6,10,13,17,21,27,26,31,34,38,40,42,47,50,54	-3.92	0.92	-11.16	-2.44	7.11	1.11	-2.62	-5.24	1.76	-6.48	-0.06	-1.80	-10.31	-4.31	-0.33	2.28	4.21	**-31.3**
964	2586	2,4,3,6,10,13,17,18,20,23,26,33,37,40,43,47,46,48,52,53,54	-1.20	0.40	-5.45	4.48	-2.61	-1.46	-1.19	-3.95	-1.42	-4.98	0.83	0.11	-9.31	-5.30	-0.33	2.28	-2.17	**-31.3**
965	1609	1,6,10,15,23,27,28,34,36,39,44,55	-3.84	-1.93	0.03	-5.85	-0.14	-3.18	-6.21	-3.40	-0.87	9.54	-2.31	-1.80	-3.76	-6.29	2.45	-1.54	-2.17	**-31.3**
966	3730	2,4,3,6,9,11,17,21,28,34,35,37,40,43,47,46,48,52,53,54	-1.44	0.40	-4.14	5.00	0.58	0.25	0.25	-1.75	-2.67	-6.71	1.07	0.11	-7.27	-10.90	-0.33	-1.54	-2.17	**-31.3**
967	2302	1,6,9,11,17,18,20,23,26,31,34,38,43,50,54	-4.48	-0.90	-11.98	-0.96	6.40	-1.46	-3.34	2.88	5.01	-4.44	-0.45	-1.80	-12.79	-11.89	2.45	2.28	4.21	**-31.3**
968	2773	2,4,3,6,10,13,17,21,28,34,36,39,44,55	-3.76	-0.90	-0.39	-2.29	0.69	-2.32	-4.06	-6.85	-2.09	6.16	-1.63	-1.80	-3.66	-4.31	-0.33	-1.54	-2.17	**-31.3**
969	2151	1,6,9,11,13,16,18,21,28,34,35,37,40,41,44,55	-2.64	-0.64	-5.02	-2.67	4.93	0.25	-3.34	-2.06	-0.87	-6.01	0.29	-1.80	-5.75	-4.64	2.45	-1.54	-2.17	**-31.2**
970	2839	2,4,3,6,10,15,23,27,28,31,33,37,42,46,48,51	-0.73	-0.38	-1.82	2.17	-4.64	-1.46	-1.19	-4.37	-4.25	-2.96	0.61	2.02	-3.89	-6.29	-0.33	-1.54	-2.17	**-31.2**
971	3961	2,4,7,11,13,16,18,21,27,26,31,34,35,37,42,47,50,54	-4.19	0.92	-10.50	-1.10	5.13	0.25	-1.91	3.05	1.88	-6.92	-0.04	-1.80	-9.66	-3.32	-3.11	2.28	-2.17	**-31.2**
972	1855	1,6,10,16,20,23,27,28,34,38,43,47,49,53,54	-4.64	-1.93	-13.21	-1.95	8.77	-1.46	-5.49	0.00	0.16	-2.35	-0.69	0.11	-14.58	0.96	2.45	-1.54	4.21	**-31.2**
973	572	1,3,7,11,17,21,28,31,33,37,42,46,48,52,53,54	-2.11	-1.41	-4.61	3.62	-1.72	-0.60	1.68	3.45	-3.56	-6.77	0.93	0.11	-7.89	-9.58	1.06	-1.54	-2.17	**-31.1**
974	926	1,3,7,9,10,15,23,26,33,37,42,46,48,52,53,54	-1.84	-0.90	-4.22	-0.77	-3.27	-2.32	-1.19	1.54	-2.00	-5.28	0.48	0.11	-7.63	-4.97	1.06	2.28	-2.17	**-31.1**
975	4667	2,4,7,9,10,15,23,26,31,34,38,40,42,47,50,54	-4.25	0.40	-10.85	-5.71	6.74	-0.60	-4.06	2.61	3.32	-3.90	-0.83	-1.80	-10.58	-4.97	-3.11	2.28	4.21	**-31.1**
976	3054	2,4,3,6,10,16,20,23,26,31,34,38,43,50,54	-4.59	-0.90	-12.75	-1.86	7.92	-2.32	-4.77	-2.48	3.90	-4.12	-0.58	-1.80	-13.86	0.96	-0.33	2.28	4.21	**-31.1**
977	4158	2,4,7,11,17,18,20,23,26,31,34,38,43,50,54	-4.74	-0.90	-12.10	-0.67	6.85	-2.32	-2.62	7.28	5.32	-4.50	-0.60	-1.80	-13.10	-10.57	-3.11	2.28	4.21	**-31.1**
978	3467	2,4,3,6,9,11,13,16,20,23,26,33,37,40,41,44,55	-2.42	-0.64	-5.73	-0.85	2.45	-2.32	-4.06	0.30	1.49	-4.53	0.14	-1.80	-7.23	-5.63	-0.33	2.28	-2.17	**-31.0**
979	3229	2,4,3,6,9,11,13,15,23,26,31,34,38,43,47,49,53,54	-4.02	0.92	-10.18	-3.12	7.30	-2.32	-4.77	4.85	1.76	-4.67	-0.37	0.11	-9.82	-12.87	-0.33	2.28	4.21	**-31.0**
980	1071	1,3,7,9,10,16,18,21,27,26,33,37,40,43,47,49,53,54	-3.98	0.66	-11.12	-3.33	2.75	1.11	-2.62	0.58	-2.73	-7.13	0.06	0.11	-9.83	3.26	1.06	2.28	-2.17	**-31.0**
981	4007	2,4,7,11,13,16,18,21,28,34,35,37,40,41,44,55	-2.90	-0.64	-5.14	-2.37	5.38	-0.60	-2.62	2.34	-0.55	-6.06	0.14	-1.80	-6.06	-3.32	-3.11	-1.54	-2.17	**-31.0**
982	4635	2,4,7,9,10,13,17,21,28,34,38,41,44,55	-3.12	-1.15	-6.04	-4.24	7.31	-1.46	-2.62	-1.15	-0.34	-5.70	-0.02	-1.80	-7.19	-2.99	-3.11	-1.54	4.21	**-31.0**
983	883	1,3,7,9,10,13,17,21,28,34,38,43,47,49,53,54	-4.58	-0.38	-11.94	-3.03	7.93	0.25	-2.62	2.05	-1.64	-5.84	-0.27	0.11	-11.70	-2.99	1.06	-1.54	4.21	**-30.9**
984	232	1,3,7,11,13,16,18,21,27,26,33,37,40,43,50,54	-4.35	0.14	-10.68	-2.00	2.86	1.11	-1.19	3.45	0.68	-7.15	-0.08	-1.80	-9.71	-3.32	1.06	2.28	-2.17	**-30.9**
985	4614	2,4,7,9,10,13,17,21,28,34,35,37,40,43,47,46,48,52,53,54	-1.59	0.40	-4.80	2.96	0.32	0.25	0.25	-1.91	-3.43	-6.51	0.87	0.11	-7.98	-2.99	-3.11	-1.54	-2.17	**-30.9**
986	1133	1,3,7,9,10,16,20,23,26,31,34,35,37,42,47,50,54	-4.31	-0.12	-12.32	-2.12	4.29	-0.60	-4.06	1.25	2.95	-4.00	-0.55	-1.80	-12.93	2.28	1.06	2.28	-2.17	**-30.9**
987	1081	1,3,7,9,10,16,18,21,28,31,33,37,40,41,44,55	-2.67	-0.64	-5.70	-4.74	2.92	0.25	-2.62	-2.22	-2.84	-5.54	0.09	-1.80	-5.98	3.26	1.06	-1.54	-2.17	**-30.9**
988	598	1,3,7,11,17,21,28,34,38,40,42,49,53,54	-4.86	-1.41	-11.50	-1.92	7.91	0.25	-1.91	7.01	-0.56	-6.33	-0.24	0.11	-11.56	-9.58	1.06	-1.54	4.21	**-30.9**
989	918	1,3,7,9,10,15,23,26,31,34,38,43,50,54	-4.61	-0.38	-11.06	-6.50	6.25	-1.46	-4.06	3.01	3.32	-4.23	-0.85	-1.80	-11.07	-4.97	1.06	2.28	4.21	**-30.8**
990	1308	1,6,10,13,17,18,20,23,26,31,34,35,37,42,46,48,52,53,54	-1.58	-0.38	-5.58	3.37	-1.55	-2.32	-1.91	-3.55	-0.22	-5.31	0.83	0.11	-10.02	-5.30	2.45	2.28	-2.17	**-30.8**

Table F-3: Weighted, Sorted Z-scores for All Routes

Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
991	1996	1,6,9,11,13,15,23,27,28,31,33,37,40,43,47,46,48,52,53,54	-1.23	0.14	-3.62	1.73	-1.81	-0.60	-1.19	1.69	-2.65	-3.08	0.48	0.11	-6.63	-12.87	2.45	-1.54	-2.17	**-30.8**
992	1972	1,6,9,11,13,15,23,26,31,34,38,40,42,49,53,54	-4.20	-0.12	-10.29	-4.35	6.58	-1.46	-4.77	5.25	1.76	-4.90	-0.38	0.11	-10.08	-12.87	2.45	2.28	4.21	**-30.8**
993	2575	2,4,3,6,10,13,17,18,20,23,26,31,34,38,40,42,47,50,54	-3.93	0.92	-12.29	-1.20	6.94	-0.60	-4.06	-2.48	3.90	-3.82	-0.48	-1.80	-12.74	-5.30	-0.33	2.28	4.21	**-30.8**
994	2349	1,6,9,11,17,18,20,23,27,28,34,38,40,42,47,50,54	-4.23	-0.64	-12.21	-0.38	7.67	0.25	-3.34	2.88	3.59	-2.07	-0.73	-1.80	-13.00	-11.89	2.45	-1.54	4.21	**-30.8**
995	1379	1,6,10,13,17,18,20,23,27,28,34,38,41,44,55	-2.88	-1.67	-7.06	-3.30	6.69	-2.32	-4.77	-2.79	1.47	-2.23	-0.35	-1.80	-9.45	-5.30	2.45	-1.54	4.21	**-30.7**
996	3432	2,4,3,6,9,11,13,16,18,21,28,34,38,43,50,54	-4.57	0.14	-11.36	-1.04	9.55	-0.60	-2.62	-0.28	1.45	-5.76	-0.30	-1.80	-11.16	-4.64	-0.33	-1.54	4.21	**-30.6**
997	1482	1,6,10,13,17,21,27,26,33,37,40,43,47,46,48,52,53,54	-1.36	-0.64	-4.41	2.42	-2.95	1.11	0.25	-6.31	-3.57	-7.67	1.24	0.11	-7.10	-4.31	2.45	2.28	-2.17	**-30.6**
998	1834	1,6,10,16,20,23,27,28,34,35,37,42,46,48,52,53,54	-1.98	-1.93	-6.28	3.30	0.71	-2.32	-2.62	-3.55	-1.63	-3.24	0.45	0.11	-11.34	0.96	2.45	-1.54	-2.17	**-30.6**
999	4844	2,4,7,9,10,16,18,21,28,31,33,37,42,46,48,52,53,54	-1.88	-0.38	-5.13	2.25	-0.46	-1.46	0.25	-1.91	-4.64	-6.45	0.83	0.11	-8.17	3.26	-3.11	-1.54	-2.17	**-30.6**
1000	3852	2,4,7,11,13,15,23,27,28,31,33,37,40,43,47,46,48,52,53,54	-1.48	0.14	-3.74	2.02	-1.36	-1.46	-0.47	6.10	-2.34	-3.13	0.33	0.11	-6.94	-11.56	-3.11	-1.54	-2.17	**-30.6**
1001	3828	2,4,7,11,13,15,23,26,31,34,38,40,42,49,53,54	-4.46	-0.12	-10.41	-4.05	7.03	-2.32	-4.06	9.65	2.08	-4.95	-0.54	0.11	-10.39	-11.56	-3.11	2.28	4.21	**-30.6**
1002	1358	1,6,10,13,17,18,20,23,27,28,34,35,37,40,43,47,46,48,52,53,54	-1.35	-0.12	-5.82	3.90	-0.30	-0.60	-1.91	-3.55	-1.63	-3.04	0.53	0.11	-10.24	-5.30	2.45	-1.54	-2.17	**-30.6**
1003	3101	2,4,3,6,10,16,20,23,27,28,34,38,40,42,47,50,54	-4.34	-0.64	-12.98	-1.27	9.20	-0.60	-4.77	-2.48	2.49	-1.75	-0.86	-1.80	-14.07	0.96	-0.33	-1.54	4.21	**-30.6**
1004	4205	2,4,7,11,17,18,20,23,27,28,34,38,40,42,47,50,54	-4.49	-0.64	-12.33	-0.08	8.12	-0.60	-2.62	7.28	3.91	-2.12	-0.88	-1.80	-13.31	-10.57	-3.11	-1.54	4.21	**-30.6**
1005	3696	2,4,3,6,9,11,17,21,27,26,31,34,38,40,42,49,53,54	-4.00	0.66	-10.62	-1.18	7.18	-0.60	-2.62	1.80	0.54	-7.53	0.22	0.11	-9.78	-10.90	-0.33	2.28	4.21	**-30.6**
1006	2189	1,6,9,11,13,16,20,23,26,31,34,35,37,40,43,47,49,53,54	-3.93	0.66	-11.55	-0.02	4.59	-0.60	-4.77	3.49	1.39	-4.78	-0.11	0.11	-11.95	-5.63	2.45	2.28	-2.17	**-30.5**
1007	3208	2,4,3,6,9,11,13,15,23,26,31,34,35,37,42,46,48,52,53,54	-1.36	0.92	-3.25	2.13	-0.76	-3.18	-1.91	1.29	-0.03	-5.57	0.77	0.11	-6.59	-12.87	-0.33	2.28	-2.17	**-30.5**
1008	255	1,3,7,11,13,16,18,21,28,34,35,37,40,43,47,49,53,54	-4.36	0.66	-11.04	-1.16	6.00	1.11	-2.62	5.54	-1.86	-6.20	-0.12	0.11	-10.56	-3.32	1.06	-1.54	-2.17	**-30.5**
1009	862	1,3,7,9,10,13,17,21,28,34,35,37,42,46,48,52,53,54	-1.92	-0.38	-5.01	2.22	-0.14	-0.60	0.25	-1.51	-3.43	-6.73	0.86	0.11	-8.46	-2.99	1.06	-1.54	-2.17	**-30.4**
1010	4045	2,4,7,11,13,16,20,23,26,31,34,35,37,40,43,47,49,53,54	-4.19	0.66	-11.67	0.28	5.04	-1.46	-4.06	7.90	1.70	-4.83	-0.26	0.11	-12.26	-4.31	-3.11	2.28	-2.17	**-30.4**
1011	2239	1,6,9,11,13,16,20,23,27,28,34,35,37,40,41,44,55	-2.58	-1.15	-6.09	-1.43	4.76	-1.46	-4.77	0.70	1.28	-2.59	-0.16	-1.80	-8.16	-5.63	2.45	-1.54	-2.17	**-30.4**
1012	4870	2,4,7,9,10,16,18,21,28,34,38,40,42,49,53,54	-4.63	-0.38	-12.03	-3.29	9.17	-0.60	-3.34	1.65	-1.64	-6.01	-0.34	0.11	-11.84	3.26	-3.11	-1.54	4.21	**-30.3**
1013	965	1,3,7,9,10,15,23,27,28,34,38,40,42,47,50,54	-4.36	-0.12	-11.29	-5.92	7.53	0.25	-4.06	3.01	1.91	-1.86	-1.13	-1.80	-11.28	-4.97	1.06	-1.54	4.21	**-30.3**
1014	3279	2,4,3,6,9,11,13,15,23,27,28,34,38,41,44,55	-2.66	-0.38	-4.73	-4.54	7.47	-3.18	-4.77	2.05	1.65	-2.49	-0.42	-1.80	-6.02	-12.87	-0.33	-1.54	4.21	**-30.3**
1015	456	1,3,7,11,17,18,20,23,27,28,34,38,43,50,54	-4.85	-1.41	-12.54	-0.87	7.64	-1.46	-2.62	7.68	3.91	-2.46	-0.90	-1.80	-13.81	-10.57	1.06	-1.54	4.21	**-30.3**
1016	1761	1,6,10,16,18,21,28,34,38,40,42,47,50,54	-4.57	-1.15	-11.99	-3.33	8.87	1.97	-3.34	-4.84	0.34	-5.19	-0.43	-1.80	-11.89	1.95	2.45	-1.54	4.21	**-30.3**
1017	3258	2,4,3,6,9,11,13,15,23,27,28,34,35,37,40,43,47,46,48,52,53,54	-1.14	1.18	-3.48	2.66	0.49	-1.46	-1.91	1.29	-1.45	-3.30	0.47	0.11	-6.81	-12.87	-0.33	-1.54	-2.17	**-30.3**
1018	1042	1,3,7,9,10,16,18,21,27,26,31,34,35,37,40,43,50,54	-4.08	1.18	-11.03	-3.81	4.21	1.11	-2.62	-1.51	0.81	-6.97	-0.13	-1.80	-10.04	3.26	1.06	2.28	-2.17	**-30.2**
1019	1561	1,6,10,15,23,26,31,34,38,41,44,55	-2.92	-1.67	-5.12	-7.42	5.51	-2.32	-5.49	-2.50	1.96	-4.30	-0.27	-1.80	-6.54	-6.29	2.45	2.28	4.21	**-30.2**
1020	2499	1,6,9,11,17,21,28,34,38,41,44,55	-3.14	-2.19	-5.47	-3.03	7.07	-0.60	-2.62	-0.59	0.43	-5.93	0.16	-1.80	-6.71	-10.90	2.45	-1.54	4.21	**-30.2**
1021	1810	1,6,10,16,20,23,26,33,37,42,46,48,52,53,54	-2.00	-2.45	-6.00	3.06	-2.11	-2.32	-1.91	-3.55	-1.42	-5.20	0.73	0.11	-10.64	0.96	2.45	2.28	-2.17	**-30.2**
1022	3353	2,4,3,6,9,11,13,16,18,21,27,26,31,34,35,37,40,43,47,49,53,54	-3.49	2.74	-10.15	-0.43	5.26	0.25	-3.34	0.33	-0.76	-7.41	0.35	0.11	-8.79	-4.64	-0.33	2.28	-2.17	**-30.2**
1023	4580	2,4,7,9,10,13,17,21,27,26,31,34,38,40,42,49,53,54	-4.15	0.66	-11.28	-3.23	6.92	-0.60	-2.62	1.65	-0.23	-7.33	0.02	0.11	-10.49	-2.99	-3.11	2.28	4.21	**-30.2**
1024	4095	2,4,7,11,13,16,20,23,27,28,34,35,37,40,41,44,55	-2.84	-1.15	-6.21	-1.14	5.21	-2.32	-4.06	5.10	1.59	-2.65	-0.31	-1.80	-8.47	-4.31	-3.11	-1.54	-2.17	**-30.2**
1025	1540	1,6,10,15,23,26,31,34,35,37,40,43,47,46,48,52,53,54	-1.39	-0.12	-3.88	-0.22	-1.48	-0.60	-2.62	-3.26	-1.14	-5.11	0.62	0.11	-7.33	-6.29	2.45	2.28	-2.17	**-30.1**
1026	1685	1,6,10,16,18,21,27,26,31,34,35,37,40,41,44,55	-2.40	-0.64	-5.09	-4.72	3.47	0.25	-4.06	-7.02	-0.56	-7.03	0.46	-1.80	-5.51	1.95	2.45	2.28	-2.17	**-30.1**
1027	1471	1,6,10,13,17,21,27,26,31,34,38,40,42,47,50,54	-4.10	-0.12	-11.25	-3.26	6.61	1.97	-2.62	-4.84	1.76	-6.51	-0.07	-1.80	-10.54	-4.31	2.45	2.28	4.21	**-30.1**
1028	1334	1,6,10,13,17,18,20,23,26,33,37,40,43,47,46,48,52,53,54	-1.38	-0.64	-5.54	3.65	-3.12	-0.60	-1.19	-3.55	-1.42	-5.01	0.82	0.11	-9.53	-5.30	2.45	2.28	-2.17	**-30.1**
1029	2478	1,6,9,11,17,21,28,34,35,37,40,43,47,46,48,52,53,54	-1.61	-0.64	-4.23	4.18	0.08	1.11	0.25	-1.35	-2.67	-6.74	1.05	0.11	-7.49	-10.90	2.45	-1.54	-2.17	**-30.1**
1030	294	1,3,7,11,13,16,20,23,26,31,34,35,37,42,49,53,54	-4.52	-0.38	-11.88	-0.46	4.58	-2.32	-4.06	8.30	1.70	-5.06	-0.26	0.11	-12.75	-4.31	1.06	2.28	-2.17	**-30.1**
1031	1521	1,6,10,13,17,21,28,34,36,39,44,55	-3.94	-1.93	-0.48	-3.11	0.18	-1.46	-4.06	-6.45	-2.09	6.13	-1.64	-1.80	-3.89	-4.31	2.45	-1.54	-2.17	**-30.1**
1032	100	1,3,7,11,13,15,23,27,28,31,33,37,42,46,48,52,53,54	-1.81	-0.64	-3.95	1.29	-1.81	-2.32	-0.47	6.50	-2.34	-3.36	0.33	0.11	-7.43	-11.56	1.06	-1.54	-2.17	**-30.1**
1033	1587	1,6,10,15,23,27,28,31,33,37,42,46,48,51	-0.90	-1.41	-1.91	1.34	-5.14	-0.60	-1.19	-3.97	-4.25	-2.98	0.60	2.02	-4.12	-6.29	2.45	-1.54	-2.17	**-30.1**
1034	3572	2,4,3,6,9,11,17,18,20,23,27,28,31,33,37,40,43,47,46,48,52,53,54	-1.04	0.92	-5.09	6.13	-1.38	-1.46	-0.47	1.01	-1.73	-3.05	0.67	0.11	-8.76	-11.89	-0.33	-1.54	-2.17	**-30.1**
1035	2751	2,4,3,6,10,13,17,21,28,31,33,37,42,46,48,51	-0.82	-0.38	-2.33	4.91	-4.32	0.25	0.96	-7.42	-5.47	-6.37	1.27	2.02	-4.02	-4.31	-0.33	-1.54	-2.17	**-30.1**
1036	3548	2,4,3,6,9,11,17,18,20,23,26,31,34,38,40,42,49,53,54	-4.01	0.66	-11.75	0.05	7.01	-2.32	-4.06	4.56	2.68	-4.87	-0.20	0.11	-12.21	-11.89	-0.33	2.28	4.21	**-30.1**
1037	4355	2,4,7,11,17,21,28,34,38,41,44,55	-3.40	-2.19	-5.59	-2.73	7.51	-1.46	-1.91	3.81	0.74	-5.99	0.01	-1.80	-7.02	-9.58	-3.11	-1.54	4.21	**-30.0**
1038	235	1,3,7,11,13,16,18,21,27,26,33,37,42,47,50,54	-4.32	-0.12	-10.67	-1.55	3.11	1.11	-1.19	3.45	0.68	-6.85	-0.05	-1.80	-9.67	-3.32	1.06	2.28	-2.17	**-30.0**
1039	1169	1,3,7,9,10,16,20,23,27,28,31,33,37,40,41,44,55	-2.61	-1.15	-6.77	-3.51	2.75	-1.46	-4.06	0.54	-0.69	-2.13	-0.35	-1.80	-8.39	2.28	1.06	-1.54	-2.17	**-30.0**
1040	603	1,3,7,11,17,21,28,34,38,43,47,49,53,54	-4.86	-1.41	-11.49	-1.52	8.13	0.25	-1.91	7.01	-0.56	-6.13	-0.24	0.11	-11.52	-9.58	1.06	-1.54	4.21	**-30.0**
1041	4334	2,4,7,11,17,21,28,34,35,37,40,43,47,46,48,52,53,54	-1.87	-0.64	-4.35	4.47	0.53	0.25	0.96	3.05	-2.35	-6.80	0.90	0.11	-7.80	-9.58	-3.11	-1.54	-2.17	**-29.9**
1042	1802	1,6,10,16,20,23,26,31,34,38,43,50,54	-4.76	-1.93	-12.84	-2.68	7.42	-1.46	-4.77	-2.08	3.90	-4.15	-0.59	-1.80	-14.08	0.96	2.45	2.28	4.21	**-29.9**
1043	2215	1,6,9,11,13,16,20,23,26,33,37,40,41,44,55	-2.60	-1.67	-5.82	-1.68	1.94	-1.46	-4.06	0.70	1.49	-4.56	0.13	-1.80	-7.45	-5.63	2.45	2.28	-2.17	**-29.9**
1044	1977	1,6,9,11,13,15,23,26,31,34,38,43,47,49,53,54	-4.19	-0.12	-10.27	-3.95	6.80	-1.46	-4.77	5.25	1.76	-4.70	-0.38	0.11	-10.05	-12.87	2.45	2.28	4.21	**-29.9**
1045	126	1,3,7,11,13,15,23,27,28,34,38,40,42,49,53,54	-4.56	-0.64	-10.85	-4.26	7.82	-1.46	-4.06	10.05	0.66	-2.92	-0.84	0.11	-11.10	-11.56	1.06	-1.54	4.21	**-29.9**

Westar Energy- JEC to East Manhattan
345/230 kV Transmission Line Project
Table F-3: Weighted, Sorted Z-scores for All Routes

Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
1046	2974	2,4,3,6,10,16,18,21,27,26,33,37,42,46,48,52,53,54	-1.56	-0.38	-4.60	2.64	-1.43	-1.46	-0.47	-6.71	-3.57	-7.83	1.19	0.11	-7.47	1.95	-0.33	2.28	-2.17	**-29.8**
1047	3234	2,4,3,6,9,11,13,15,23,26,33,37,40,43,47,46,48,52,53,54	-1.16	0.66	-3.21	2.42	-2.33	-1.46	-1.19	1.29	-1.24	-5.26	0.76	0.11	-6.10	-12.87	-0.33	2.28	-2.17	**-29.8**
1048	3520	2,4,3,6,9,11,13,16,20,23,27,28,34,38,43,50,54	-4.50	-0.38	-12.44	0.20	9.38	-2.32	-4.06	2.48	3.59	-2.35	-0.75	-1.80	-13.56	-5.63	-0.33	-1.54	4.21	**-29.8**
1049	4932	2,4,7,9,10,16,20,23,27,28,31,33,37,42,46,48,52,53,54	-1.82	-0.90	-6.20	3.49	-0.63	-3.18	-1.19	0.85	-2.49	-3.04	0.39	0.11	-10.58	2.28	-3.11	-1.54	-2.17	**-29.7**
1050	4071	2,4,7,11,13,16,20,23,26,33,37,40,41,44,55	-2.86	-1.67	-5.94	-1.38	2.39	-2.32	-3.34	5.10	1.80	-4.61	-0.02	-1.80	-7.76	-4.31	-3.11	2.28	-2.17	**-29.7**
1051	3833	2,4,7,11,13,15,23,26,31,34,38,43,47,49,53,54	-4.45	-0.12	-10.39	-3.65	7.25	-2.32	-4.06	9.65	2.08	-4.76	-0.53	0.11	-10.36	-11.56	-3.11	2.28	4.21	**-29.7**
1052	3701	2,4,3,6,9,11,17,21,27,26,31,34,38,43,47,49,53,54	-3.99	0.66	-10.61	-0.79	7.40	-0.60	-2.62	1.80	0.54	-7.34	0.23	0.11	-9.75	-10.90	-0.33	2.28	4.21	**-29.7**
1053	4456	2,4,7,9,10,13,17,18,20,23,27,28,31,33,37,40,43,47,46,48,52,53,54	-1.19	0.92	-5.74	4.09	-1.64	-1.46	-0.47	0.85	-2.49	-2.84	0.47	0.11	-9.47	-3.98	-3.11	-1.54	-2.17	**-29.7**
1054	4432	2,4,7,9,10,13,17,18,20,23,26,31,34,38,40,42,49,53,54	-4.17	0.66	-12.41	-1.99	6.74	-2.32	-4.06	4.41	1.92	-4.66	-0.40	0.11	-12.92	-3.98	-3.11	2.28	4.21	**-29.7**
1055	1323	1,6,10,13,17,18,20,23,26,31,34,38,40,42,47,50,54	-4.11	-0.12	-12.38	-2.03	6.44	0.25	-4.06	-2.08	3.90	-3.85	-0.49	-1.80	-12.97	-5.30	2.45	2.28	4.21	**-29.6**
1056	343	1,3,7,11,13,16,20,23,27,28,34,35,37,40,43,47,49,53,54	-4.30	0.14	-12.11	0.07	5.83	-0.60	-4.06	8.30	0.29	-2.79	-0.56	0.11	-12.97	-4.31	1.06	-1.54	-2.17	**-29.6**
1057	2984	2,4,3,6,10,16,18,21,28,31,33,37,40,43,47,46,48,52,53,54	-1.38	0.40	-4.86	3.18	-0.19	0.25	-0.47	-6.71	-4.98	-6.17	0.97	0.11	-7.65	1.95	-0.33	-1.54	-2.17	**-29.6**
1058	2966	2,4,3,6,10,16,18,21,27,26,31,34,38,43,50,54	-4.32	0.14	-11.44	-3.09	8.09	-0.60	-3.34	-5.24	1.76	-6.78	-0.14	-1.80	-10.92	1.95	-0.33	2.28	4.21	**-29.6**
1059	3379	2,4,3,6,9,11,13,16,18,21,27,26,33,37,40,41,44,55	-2.16	0.40	-4.42	-2.09	2.62	-0.60	-2.62	-2.46	-0.66	-7.19	0.59	-1.80	-4.28	-4.64	-0.33	2.28	-2.17	**-29.5**
1060	2849	2,4,3,6,10,15,23,27,28,34,35,37,42,46,48,51	-0.81	-0.38	-1.77	2.28	-2.85	-1.46	-1.91	-4.37	-3.04	-3.21	0.58	2.02	-4.29	-6.29	-0.33	-1.54	-2.17	**-29.5**
1061	2180	1,6,9,11,13,16,18,21,28,34,38,43,50,54	-4.74	-0.90	-11.45	-1.86	9.05	0.25	-2.62	0.12	1.45	-5.79	-0.31	-1.80	-11.38	-4.64	2.45	-1.54	4.21	**-29.5**
1062	4958	2,4,7,9,10,16,20,23,27,28,34,38,40,42,49,53,54	-4.57	-0.90	-13.10	-2.05	9.00	-2.32	-4.77	4.41	0.50	-2.60	-0.78	0.11	-14.25	2.28	-3.11	-1.54	4.21	**-29.5**
1063	4875	2,4,7,9,10,16,18,21,28,34,38,43,47,49,53,54	-4.62	-0.38	-12.01	-2.89	9.39	-0.60	-3.34	1.65	-1.64	-5.81	-0.33	0.11	-11.81	3.26	-3.11	-1.54	4.21	**-29.5**
1064	582	1,3,7,11,17,21,28,34,35,37,42,46,48,52,53,54	-2.20	-1.41	-4.56	3.73	0.07	-0.60	0.96	3.45	-2.35	-7.02	0.90	0.11	-8.29	-9.58	1.06	-1.54	-2.17	**-29.4**
1065	49	1,3,7,11,13,15,23,26,31,34,35,37,40,41,44,55	-2.58	-0.38	-4.03	-5.39	2.57	-1.46	-4.06	5.79	2.09	-4.74	-0.13	-1.80	-4.94	-11.56	1.06	2.28	-2.17	**-29.4**
1066	1849	1,6,10,16,20,23,27,28,34,38,40,42,47,50,54	-4.51	-1.67	-13.07	-2.09	8.70	0.25	-4.77	-2.08	2.49	-1.78	-0.88	-1.80	-14.30	0.96	2.45	-1.54	4.21	**-29.4**
1067	2444	1,6,9,11,17,21,27,26,31,34,38,40,42,49,53,54	-4.17	-0.38	-10.71	-2.01	6.68	0.25	-2.62	2.20	0.54	-7.56	0.21	0.11	-10.01	-10.90	2.45	2.28	4.21	**-29.4**
1068	1045	1,3,7,9,10,16,18,21,27,26,31,34,35,37,42,47,50,54	-4.05	0.92	-11.01	-3.36	4.46	1.11	-2.62	-1.51	0.81	-6.66	-0.11	-1.80	-9.99	3.26	1.06	2.28	-2.17	**-29.4**
1069	1956	1,6,9,11,13,15,23,26,31,34,35,37,42,46,48,52,53,54	-1.53	-0.12	-3.34	1.31	-1.26	-2.32	-1.91	1.69	-0.03	-5.59	0.76	0.11	-6.81	-12.87	2.45	2.28	-2.17	**-29.4**
1070	4036	2,4,7,11,13,16,18,21,28,34,38,43,50,54	-5.00	-0.90	-11.57	-1.57	9.50	-0.60	-1.91	4.52	1.76	-5.84	-0.47	-1.80	-11.69	-3.32	-3.11	-1.54	4.21	**-29.3**
1071	3223	2,4,3,6,9,11,13,15,23,26,31,34,38,40,42,47,50,54	-3.89	1.18	-10.04	-3.26	7.23	-0.60	-4.06	2.76	4.09	-4.10	-0.55	-1.80	-9.54	-12.87	-0.33	2.28	4.21	**-29.3**
1072	4585	2,4,7,9,10,13,17,21,27,26,31,34,38,43,47,49,53,54	-4.15	0.66	-11.27	-2.83	7.14	-0.60	-2.62	1.65	-0.23	-7.13	0.03	0.11	-10.45	-2.99	-3.11	2.28	4.21	**-29.3**
1073	4300	2,4,7,11,17,21,27,26,31,34,38,40,42,49,53,54	-4.43	-0.38	-10.83	-1.71	7.12	-0.60	-1.91	6.61	0.85	-7.62	0.06	0.11	-10.32	-9.58	-3.11	2.28	4.21	**-29.2**
1074	2027	1,6,9,11,13,15,23,27,28,34,38,41,44,55	-2.84	-1.41	-4.81	-5.36	6.97	-2.32	-4.77	2.45	1.65	-2.52	-0.43	-1.80	-6.25	-12.87	2.45	-1.54	4.21	**-29.2**
1075	1091	1,3,7,9,10,16,18,21,28,34,35,37,40,41,44,55	-2.75	-0.64	-5.65	-4.63	4.71	0.25	-3.34	-2.22	-1.63	-5.80	0.07	-1.80	-6.38	3.26	1.06	-1.54	-2.17	**-29.2**
1076	704	1,3,7,9,10,13,17,18,20,23,27,28,31,33,37,42,46,48,52,53,54	-1.52	0.14	-5.95	3.35	-2.10	-2.32	-0.47	1.25	-2.49	-3.07	0.47	0.11	-9.95	-3.98	1.06	-1.54	-2.17	**-29.2**
1077	877	1,3,7,9,10,13,17,21,28,34,38,40,42,47,50,54	-4.45	-0.12	-11.80	-3.17	7.85	1.97	-1.91	-0.04	0.68	-5.27	-0.46	-1.80	-11.41	-2.99	1.06	-1.54	4.21	**-29.2**
1078	3553	2,4,3,6,9,11,17,18,20,23,26,31,34,38,43,47,49,53,54	-4.01	0.66	-11.74	0.45	7.23	-2.32	-4.06	4.56	2.68	-4.68	-0.19	0.11	-12.18	-11.89	-0.33	2.28	4.21	**-29.2**
1079	3812	2,4,7,11,13,15,23,26,31,34,35,37,42,46,48,52,53,54	-1.79	-0.12	-3.46	1.60	-0.82	-3.18	-1.19	6.10	0.28	-5.65	0.61	0.11	-7.12	-11.56	-3.11	2.28	-2.17	**-29.2**
1080	319	1,3,7,11,13,16,20,23,26,33,37,40,43,47,49,53,54	-4.32	-0.38	-11.83	-0.17	3.01	-0.60	-3.34	8.30	0.50	-4.76	-0.28	0.11	-12.27	-4.31	1.06	2.28	-2.17	**-29.2**
1081	3680	2,4,3,6,9,11,17,21,27,26,31,34,35,37,42,46,48,52,53,54	-1.33	0.66	-3.67	4.47	-0.67	-1.46	0.25	-1.75	-1.25	-8.23	1.37	0.11	-6.51	-10.90	-0.33	2.28	-2.17	**-29.2**
1082	2006	1,6,9,11,13,15,23,27,28,34,35,37,40,43,47,46,48,52,53,54	-1.31	0.14	-3.57	1.84	-0.02	-0.60	-1.91	1.69	-1.45	-3.33	0.46	0.11	-7.03	-12.87	2.45	-1.54	-2.17	**-29.1**
1083	2825	2,4,3,6,10,15,23,26,33,37,42,46,48,51	-0.83	-0.90	-1.49	2.03	-5.67	-1.46	-1.19	-4.37	-2.83	-5.17	0.87	2.02	-3.59	-6.29	-0.33	2.28	-2.17	**-29.1**
1084	4881	2,4,7,9,10,16,20,23,26,31,34,35,37,40,41,44,55	-2.58	-0.64	-6.28	-3.19	3.75	-2.32	-4.77	0.15	1.93	-4.42	-0.08	-1.80	-8.08	2.28	-3.11	2.28	-2.17	**-29.1**
1085	2101	1,6,9,11,13,16,18,21,27,26,31,34,35,37,40,43,47,49,53,54	-3.67	1.70	-10.24	-1.25	4.76	1.11	-3.34	0.73	-0.76	-7.44	0.33	0.11	-9.01	-4.64	2.45	2.28	-2.17	**-29.0**
1086	801	1,3,7,9,10,13,17,21,27,26,31,34,35,37,40,41,44,55	-2.28	0.40	-4.90	-4.57	2.45	0.25	-2.62	-2.22	-0.21	-7.11	0.42	-1.80	-5.03	-2.99	1.06	2.28	-2.17	**-29.0**
1087	3883	2,4,7,11,13,15,23,27,28,34,38,41,44,55	-3.10	-1.41	-4.93	-5.07	7.42	-3.18	-4.06	6.86	1.97	-2.57	-0.58	-1.80	-6.56	-11.56	-3.11	-1.54	4.21	**-29.0**
1088	131	1,3,7,11,13,15,23,27,28,34,38,43,47,49,53,54	-4.56	-0.64	-10.83	-3.86	8.04	-1.46	-4.06	10.05	0.66	-2.72	-0.83	0.11	-11.06	-11.56	1.06	-1.54	4.21	**-29.0**
1089	730	1,3,7,9,10,13,17,18,20,23,27,28,34,38,40,42,49,53,54	-4.27	0.14	-12.85	-2.19	7.53	-1.46	-4.06	4.81	0.50	-2.63	-0.70	0.11	-13.63	-3.98	1.06	-1.54	4.21	**-28.9**
1090	2320	1,6,9,11,17,18,20,23,27,28,31,33,37,40,43,47,46,48,52,53,54	-1.22	-0.12	-5.17	5.30	-1.88	-0.60	-0.47	1.41	-1.73	-3.08	0.66	0.11	-8.99	-11.89	2.45	-1.54	-2.17	**-28.9**
1091	1499	1,6,10,13,17,21,28,31,33,37,42,46,48,51	-1.00	-1.41	-2.42	4.09	-4.83	1.11	0.96	-7.02	-5.47	-6.40	1.26	2.02	-4.24	-4.31	2.45	-1.54	-2.17	**-28.9**
1092	2296	1,6,9,11,17,18,20,23,26,31,34,38,40,42,49,53,54	-4.19	-0.38	-11.84	-0.77	6.50	-1.46	-4.06	4.96	2.68	-4.90	-0.21	0.11	-12.44	-11.89	2.45	2.28	4.21	**-28.9**
1093	4854	2,4,7,9,10,16,18,21,28,34,35,37,42,46,48,52,53,54	-1.96	-0.38	-5.08	2.36	1.33	-1.46	-0.47	-1.91	-3.43	-6.70	0.81	0.11	-8.57	3.26	-3.11	-1.54	-2.17	**-28.9**
1094	3862	2,4,7,11,13,15,23,27,28,34,35,37,40,43,47,46,48,52,53,54	-1.57	0.14	-3.69	2.13	0.43	-1.46	-1.19	6.10	-1.13	-3.38	0.31	0.11	-7.34	-11.56	-3.11	-1.54	-2.17	**-28.9**
1095	3957	2,4,7,11,13,16,18,21,27,26,31,34,35,37,40,43,47,49,53,54	-3.93	1.70	-10.36	-0.96	5.21	0.25	-2.62	5.14	-0.44	-7.49	0.18	0.11	-9.32	-3.32	-3.11	2.28	-2.17	**-28.9**
1096	4437	2,4,7,9,10,13,17,18,20,23,26,31,34,38,43,47,49,53,54	-4.16	0.66	-12.40	-1.59	6.96	-2.32	-4.06	4.41	1.92	-4.47	-0.39	0.11	-12.88	-3.98	-3.11	2.28	4.21	**-28.8**
1097	4564	2,4,7,9,10,13,17,21,27,26,31,34,35,37,42,46,48,52,53,54	-1.49	0.66	-4.33	2.43	-0.93	-1.46	0.25	-1.91	-2.02	-8.02	1.16	0.11	-7.22	-2.99	-3.11	2.28	-2.17	**-28.8**
1098	3072	2,4,3,6,10,16,20,23,27,28,31,33,37,40,43,47,46,48,52,53,54	-1.32	-0.12	-5.94	4.41	-0.36	-1.46	-1.91	-3.95	-2.84	-2.76	0.53	0.11	-10.06	0.96	-0.33	-1.54	-2.17	**-28.7**
1099	4176	2,4,7,11,17,18,20,23,27,28,31,33,37,40,43,47,46,48,52,53,54	-1.47	-0.12	-5.29	5.60	-1.43	-1.46	0.25	5.81	-1.42	-3.13	0.51	0.11	-9.30	-10.57	-3.11	-1.54	-2.17	**-28.7**
1100	3048	2,4,3,6,10,16,20,23,26,31,34,38,40,42,49,53,54	-4.29	-0.38	-12.61	-1.66	8.03	-2.32	-5.49	-0.40	1.58	-4.58	-0.34	0.11	-13.51	0.96	-0.33	2.28	4.21	**-28.7**

Westar Energy- JEC to East Manhattan
345/230 kV Transmission Line Project
Table F-3: Weighted, Sorted Z-scores for All Routes

Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
1101	4152	2,4,7,11,17,18,20,23,26,31,34,38,40,42,49,53,54	-4.45	-0.38	-11.96	-0.47	6.95	-2.32	-3.34	9.37	3.00	-4.96	-0.36	0.11	-12.75	-10.57	-3.11	2.28	4.21	**-28.7**
1102	4717	2,4,7,9,10,15,23,27,28,34,36,39,44,55	-3.77	-0.90	0.15	-5.56	0.31	-4.03	-5.49	1.00	-0.53	9.49	-2.40	-1.80	-3.39	-4.97	-3.11	-1.54	-2.17	**-28.7**
1103	1722	1,6,10,16,18,21,27,26,33,37,42,46,48,52,53,54	-1.73	-1.41	-4.69	1.82	-1.94	-0.60	-0.47	-6.31	-3.57	-7.86	1.18	0.11	-7.70	1.95	2.45	2.28	-2.17	**-28.7**
1104	1982	1,6,9,11,13,15,23,26,33,37,40,43,47,46,48,52,53,54	-1.33	-0.38	-3.29	1.59	-2.83	-0.60	-1.19	1.69	-1.24	-5.29	0.74	0.11	-6.33	-12.87	2.45	2.28	-2.17	**-28.7**
1105	3532	2,4,3,6,9,11,17,18,20,23,26,31,34,35,37,42,46,48,52,53,54	-1.35	0.66	-4.81	5.71	-0.84	-3.18	-1.19	1.01	0.89	-5.57	0.95	0.11	-8.94	-11.89	-0.33	2.28	-2.17	**-28.6**
1106	2268	1,6,9,11,13,16,20,23,27,28,34,38,43,50,54	-4.68	-1.41	-12.53	-0.63	8.88	-1.46	-4.06	2.88	3.59	-2.38	-0.76	-1.80	-13.79	-5.63	2.45	-1.54	4.21	**-28.6**
1107	206	1,3,7,11,13,16,18,21,27,26,31,34,35,37,42,49,53,54	-4.25	0.66	-10.57	-1.70	4.75	-0.60	-2.62	5.54	-0.44	-7.72	0.18	0.11	-9.81	-3.32	1.06	2.28	-2.17	**-28.6**
1108	4963	2,4,7,9,10,16,20,23,27,28,34,38,43,47,49,53,54	-4.56	-0.90	-13.09	-1.66	9.22	-2.32	-4.77	4.41	0.50	-2.40	-0.78	0.11	-14.21	2.28	-3.11	-1.54	4.21	**-28.6**
1109	3400	2,4,3,6,9,11,13,16,18,21,28,31,33,37,42,46,48,52,53,54	-1.52	0.66	-4.32	4.70	0.03	-1.46	0.25	-1.75	-3.88	-6.66	1.10	0.11	-7.13	-4.64	-0.33	-1.54	-2.17	**-28.6**
1110	2449	1,6,9,11,17,21,27,26,31,34,38,43,47,49,53,54	-4.17	-0.38	-10.70	-1.61	6.89	0.25	-2.62	2.20	0.54	-7.37	0.21	0.11	-9.97	-10.90	2.45	2.28	4.21	**-28.6**
1111	653	1,3,7,9,10,13,17,18,20,23,26,31,34,35,37,40,41,44,55	-2.29	0.40	-6.03	-3.33	2.28	-1.46	-4.06	0.54	1.93	-4.45	0.01	-1.80	-7.46	-3.98	1.06	2.28	-2.17	**-28.5**
1112	1129	1,3,7,9,10,16,20,23,26,31,34,35,37,40,43,47,49,53,54	-4.05	0.66	-12.18	-1.98	4.37	-0.60	-4.77	3.34	0.63	-4.57	-0.33	0.11	-12.59	2.28	1.06	2.28	-2.17	**-28.5**
1113	936	1,3,7,9,10,15,23,27,28,31,33,37,40,43,47,46,48,52,53,54	-1.34	0.40	-4.25	-0.24	-2.03	-0.60	-1.19	1.54	-3.42	-2.87	0.26	0.11	-7.27	-4.97	1.06	-1.54	-2.17	**-28.5**
1114	912	1,3,7,9,10,15,23,26,31,34,38,40,42,49,53,54	-4.31	0.14	-10.92	-6.31	6.36	-1.46	-4.77	5.09	1.00	-4.69	-0.61	0.11	-10.72	-4.97	1.06	2.28	4.21	**-28.5**
1115	3603	2,4,3,6,9,11,17,18,20,23,27,28,34,38,41,44,55	-2.65	-0.64	-6.28	-0.96	7.40	-3.18	-4.06	1.77	2.57	-2.49	-0.24	-1.80	-8.38	-11.89	-0.33	-1.54	4.21	**-28.5**
1116	3838	2,4,7,11,13,15,23,26,33,37,40,43,47,46,48,52,53,54	-1.59	-0.38	-3.41	1.89	-2.38	-1.46	-0.47	6.10	-0.92	-5.35	0.59	0.11	-6.64	-11.56	-3.11	2.28	-2.17	**-28.5**
1117	1732	1,6,10,16,18,21,28,31,33,37,40,43,47,46,48,52,53,54	-1.56	-0.64	-4.95	2.35	-0.69	1.11	-0.47	-6.31	-4.98	-6.20	0.96	0.11	-7.87	1.95	2.45	-1.54	-2.17	**-28.5**
1118	3706	2,4,3,6,9,11,17,21,27,26,33,37,40,43,47,46,48,52,53,54	-1.13	0.40	-3.63	4.76	-2.23	0.25	0.96	-1.75	-2.46	-7.93	1.35	0.11	-6.03	-10.90	-0.33	2.28	-2.17	**-28.5**
1119	4124	2,4,7,11,13,16,20,23,27,28,34,38,43,50,54	-4.94	-1.41	-12.65	-0.33	9.33	-2.32	-3.34	7.28	3.91	-2.43	-0.91	-1.80	-14.10	-4.31	-3.11	-1.54	4.21	**-28.5**
1120	110	1,3,7,11,13,15,23,27,28,34,35,37,42,46,48,52,53,54	-1.90	-0.64	-3.90	1.40	-0.03	-2.32	-1.19	6.50	-1.13	-3.61	0.31	0.11	-7.83	-11.56	1.06	-1.54	-2.17	**-28.4**
1121	1714	1,6,10,16,18,21,27,26,31,34,38,43,50,54	-4.50	-0.90	-11.53	-3.92	7.59	0.25	-3.34	-4.84	1.76	-6.81	-0.15	-1.80	-11.14	1.95	2.45	2.28	4.21	**-28.4**
1122	2127	1,6,9,11,13,16,18,21,27,26,33,37,40,41,44,55	-2.34	-0.64	-4.51	-2.91	2.12	0.25	-2.62	-2.06	-0.66	-7.22	0.57	-1.80	-4.51	-4.64	2.45	2.28	-2.17	**-28.4**
1123	1597	1,6,10,15,23,27,28,34,35,37,42,46,48,51	-0.99	-1.41	-1.86	1.45	-3.35	-0.60	-1.91	-3.97	-3.04	-3.24	0.57	2.02	-4.52	-6.29	2.45	-1.54	-2.17	**-28.4**
1124	3582	2,4,3,6,9,11,17,18,20,23,27,28,34,35,37,40,43,47,46,48,52,53,54	-1.13	0.92	-5.04	6.24	0.41	-1.46	-1.19	1.01	-0.52	-3.30	0.65	0.11	-9.16	-11.89	-0.33	-1.54	-2.17	**-28.4**
1125	2761	2,4,3,6,10,13,17,21,28,34,35,37,42,46,48,51	-0.91	-0.38	-2.28	5.02	-2.53	0.25	0.25	-7.42	-4.27	-6.62	1.25	2.02	-4.42	-4.31	-0.33	-1.54	-2.17	**-28.4**
1126	2625	2,4,3,6,10,13,17,18,20,23,27,28,34,36,39,44,55	-3.45	-0.38	-1.29	-1.05	0.51	-4.03	-5.49	-4.09	0.05	9.57	-2.05	-1.80	-5.56	-5.30	-0.33	-1.54	-2.17	**-28.4**
1127	290	1,3,7,11,13,16,20,23,26,31,34,35,37,40,43,50,54	-4.42	0.14	-11.74	-0.65	4.47	-0.60	-3.34	6.21	4.03	-4.60	-0.47	-1.80	-12.48	-4.31	1.06	2.28	-2.17	**-28.4**
1128	4305	2,4,7,11,17,21,27,26,31,34,38,43,47,49,53,54	-4.43	-0.38	-10.82	-1.31	7.34	-0.60	-1.91	6.61	0.85	-7.42	0.06	0.11	-10.28	-9.58	-3.11	2.28	4.21	**-28.4**
1129	1179	1,3,7,9,10,16,20,23,27,28,34,35,37,40,41,44,55	-2.69	-1.15	-6.72	-3.40	4.54	-1.46	-4.77	0.54	0.52	-2.39	-0.38	-1.80	-8.79	2.28	1.06	-1.54	-2.17	**-28.3**
1130	3426	2,4,3,6,9,11,13,16,18,21,28,34,38,40,42,49,53,54	-4.27	0.66	-11.22	-0.85	9.66	-0.60	-3.34	1.80	-0.88	-6.22	-0.06	0.11	-10.80	-4.64	-0.33	-1.54	4.21	**-28.3**
1131	4416	2,4,7,9,10,13,17,18,20,23,26,31,34,35,37,42,46,48,52,53,54	-1.50	0.66	-5.46	3.66	-1.10	-3.18	-1.19	0.85	0.13	-5.36	0.74	0.11	-9.65	-3.98	-3.11	2.28	-2.17	**-28.3**
1132	424	1,3,7,11,17,18,20,23,27,28,31,33,37,42,46,48,52,53,54	-1.80	-0.90	-5.50	4.86	-1.89	-2.32	0.25	6.21	-1.42	-3.36	0.51	0.11	-9.78	-10.57	1.06	-1.54	-2.17	**-28.3**
1133	597	1,3,7,11,17,21,28,34,38,40,42,47,50,54	-4.73	-1.15	-11.35	-1.66	8.06	1.97	-1.19	4.92	1.76	-5.56	-0.43	-1.80	-11.24	-9.58	1.06	-1.54	4.21	**-28.2**
1134	3983	2,4,7,11,13,16,18,21,27,26,33,37,40,41,44,55	-2.59	-0.64	-4.63	-2.62	2.56	-0.60	-1.91	2.34	-0.34	-7.27	0.42	-1.80	-4.82	-3.32	-3.11	2.28	-2.17	**-28.2**
1135	1971	1,6,9,11,13,15,23,26,31,34,38,40,42,47,50,54	-4.07	0.14	-10.13	-4.09	6.72	0.25	-4.06	3.16	4.09	-4.13	-0.57	-1.80	-9.76	-12.87	2.45	2.28	4.21	**-28.2**
1136	4487	2,4,7,9,10,13,17,18,20,23,27,28,34,38,41,44,55	-2.81	-0.64	-6.94	-3.01	7.14	-3.18	-4.06	1.62	1.81	-2.29	-0.44	-1.80	-9.09	-3.98	-3.11	-1.54	4.21	**-28.1**
1137	521	1,3,7,11,17,21,27,26,31,34,35,37,40,41,44,55	-2.55	-0.64	-4.45	-3.05	2.66	0.25	-1.91	2.74	0.86	-7.40	0.46	-1.80	-4.86	-9.58	1.06	2.28	-2.17	**-28.1**
1138	4590	2,4,7,9,10,13,17,21,27,26,33,37,40,43,47,46,48,52,53,54	-1.28	0.40	-4.29	2.71	-2.50	0.25	0.96	-1.91	-3.23	-7.72	1.15	0.11	-6.74	-2.99	-3.11	2.28	-2.17	**-28.1**
1139	4942	2,4,7,9,10,16,20,23,27,28,34,35,37,42,46,48,52,53,54	-1.90	-0.90	-6.16	3.60	1.16	-3.18	-1.91	0.85	-1.29	-3.29	0.36	0.11	-10.98	2.28	-3.11	-1.54	-2.17	**-28.1**
1140	735	1,3,7,9,10,13,17,18,20,23,27,28,34,38,43,47,49,53,54	-4.27	0.14	-12.84	-1.80	7.75	-1.46	-4.06	4.81	0.50	-2.43	-0.69	0.11	-13.59	-3.98	1.06	-1.54	4.21	**-28.1**
1141	2301	1,6,9,11,17,18,20,23,26,31,34,38,43,47,49,53,54	-4.18	-0.38	-11.83	-0.37	6.72	-1.46	-4.06	4.96	2.68	-4.71	-0.21	0.11	-12.40	-11.89	2.45	2.28	4.21	**-28.1**
1142	3015	2,4,3,6,10,16,18,21,28,34,38,41,44,55	-2.99	-1.15	-6.06	-3.92	8.59	-1.46	-4.06	-5.95	-0.68	-5.61	0.06	-1.80	-7.26	1.95	-0.33	-1.54	4.21	**-28.0**
1143	2428	1,6,9,11,17,21,27,26,31,34,35,37,42,46,48,52,53,54	-1.51	-0.38	-3.76	3.64	-1.17	-0.60	0.25	-1.35	-1.25	-8.26	1.35	0.11	-6.73	-10.90	2.45	2.28	-2.17	**-28.0**
1144	4466	2,4,7,9,10,13,17,18,20,23,27,28,34,35,37,40,43,47,46,48,52,53,54	-1.28	0.92	-5.70	4.20	0.15	-1.46	-1.19	0.85	-1.29	-3.10	0.45	0.11	-9.87	-3.98	-3.11	-1.54	-2.17	**-28.0**
1145	450	1,3,7,11,17,18,20,23,27,28,34,38,40,42,49,53,54	-4.55	-0.90	-12.40	-0.68	7.74	-1.46	-3.34	9.77	1.58	-2.92	-0.66	0.11	-13.45	-10.57	1.06	-1.54	4.21	**-28.0**
1146	86	1,3,7,11,13,15,23,26,33,37,42,46,48,52,53,54	-1.92	-1.15	-3.62	1.15	-2.84	-2.32	-0.47	6.50	-0.92	-5.57	0.59	0.11	-7.12	-11.56	1.06	2.28	-2.17	**-28.0**
1147	3827	2,4,7,11,13,15,23,26,31,34,38,40,42,47,50,54	-4.32	0.14	-10.25	-3.79	7.17	-0.60	-3.34	7.57	4.40	-4.19	-0.72	-1.80	-10.07	-11.56	-3.11	2.28	4.21	**-28.0**
1148	1573	1,6,10,15,23,26,33,37,42,46,48,51	-1.01	-1.93	-1.58	1.21	-6.17	-0.60	-1.19	-3.97	-2.83	-5.20	0.85	2.02	-3.81	-6.29	2.45	2.28	-2.17	**-28.0**
1149	2807	2,4,3,6,10,15,23,26,31,34,36,39,44,55	-3.49	-0.38	0.65	-5.16	-0.66	-4.03	-6.21	-3.80	0.55	7.50	-1.96	-1.80	-2.65	-6.29	-0.33	2.28	-2.17	**-28.0**
1150	3695	2,4,3,6,9,11,17,21,27,26,31,34,38,40,42,47,50,54	-3.87	0.92	-10.47	-0.92	7.32	1.11	-1.91	-0.28	2.86	-6.77	0.04	-1.80	-9.46	-10.90	-0.33	2.28	4.21	**-28.0**
1151	3558	2,4,3,6,9,11,17,18,20,23,26,33,37,40,43,47,46,48,52,53,54	-1.15	0.40	-4.76	5.99	-2.41	-1.46	-0.47	1.01	-0.32	-5.27	0.93	0.11	-8.46	-11.89	-0.33	2.28	-2.17	**-28.0**
1152	3745	2,4,3,6,9,11,17,21,28,34,36,39,44,55	-3.71	-0.90	0.30	-0.77	0.89	-2.32	-3.34	-1.89	-0.99	5.87	-1.53	-1.80	-2.81	-10.90	-0.33	-1.54	-2.17	**-27.9**
1153	2994	2,4,3,6,10,16,18,21,28,34,35,37,40,43,47,46,48,52,53,54	-1.47	0.40	-4.82	3.28	1.60	0.25	-1.19	-6.71	-3.78	-6.42	0.95	0.11	-8.05	1.95	-0.33	-1.54	-2.17	**-27.9**
1154	1155	1,3,7,9,10,16,20,23,26,33,37,40,41,44,55	-2.71	-1.67	-6.45	-3.64	1.72	-1.46	-4.06	0.54	0.72	-4.35	-0.10	-1.80	-8.09	2.28	1.06	2.28	-2.17	**-27.9**
1155	3053	2,4,3,6,10,16,20,23,26,31,34,38,43,47,49,53,54	-4.29	-0.38	-12.59	-1.26	8.25	-2.32	-5.49	-0.40	1.58	-4.39	-0.34	0.11	-13.47	0.96	-0.33	2.28	4.21	**-27.9**

Table F-3: Weighted, Sorted Z-scores for All Routes

		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
1156	4157	2,4,7,11,17,18,20,23,26,31,34,38,43,47,49,53,54	-4.44	-0.38	-11.95	-0.07	7.17	-2.32	-3.34	9.37	3.00	-4.76	-0.36	0.11	-12.71	-10.57	-3.11	2.28	4.21	**-27.9**
1157	2725	2,4,3,6,10,13,17,21,27,26,31,34,38,41,44,55	-2.52	-0.12	-5.31	-3.85	6.33	-1.46	-3.34	-5.95	0.74	-6.93	0.41	-1.80	-5.91	-4.31	-0.33	2.28	4.21	**-27.9**
1158	4284	2,4,7,11,17,21,27,26,31,34,35,37,42,46,48,52,53,54	-1.77	-0.38	-3.88	3.94	-0.72	-1.46	0.96	3.05	-0.94	-8.31	1.20	0.11	-7.04	-9.58	-3.11	2.28	-2.17	**-27.8**
1159	2704	2,4,3,6,10,13,17,21,27,26,31,34,35,37,40,43,47,46,48,52,53,54	-0.99	1.44	-4.07	3.35	-0.65	0.25	-0.47	-6.71	-2.36	-7.74	1.30	0.11	-6.70	-4.31	-0.33	2.28	-2.17	**-27.8**
1160	78	1,3,7,11,13,15,23,26,31,34,38,43,50,54	-4.68	-0.64	-10.46	-4.58	6.68	-1.46	-3.34	7.97	4.40	-4.52	-0.74	-1.80	-10.57	-11.56	1.06	2.28	4.21	**-27.7**
1161	4869	2,4,7,9,10,16,18,21,28,34,38,40,42,47,50,54	-4.50	-0.12	-11.87	-3.03	9.32	1.11	-2.62	-0.44	0.68	-5.24	-0.52	-1.80	-11.52	3.26	-3.11	-1.54	4.21	**-27.7**
1162	3488	2,4,3,6,9,11,13,16,20,23,27,28,31,33,37,42,46,48,52,53,54	-1.46	0.14	-5.40	5.93	-0.15	-3.18	-1.19	1.01	-1.73	-3.25	0.66	0.11	-9.54	-5.63	-0.33	-1.54	-2.17	**-27.7**
1163	231	1,3,7,11,13,16,18,21,27,26,33,37,40,43,47,49,53,54	-4.05	0.66	-10.52	-1.41	3.18	1.11	-1.91	5.54	-1.65	-7.42	0.17	0.11	-9.32	-3.32	1.06	2.28	-2.17	**-27.7**
1164	4669	2,4,7,9,10,15,23,26,31,34,38,41,44,55	-2.85	-0.64	-5.01	-7.12	5.96	-3.18	-4.77	1.90	2.30	-4.35	-0.35	-1.80	-6.18	-4.97	-3.11	2.28	4.21	**-27.7**
1165	917	1,3,7,9,10,15,23,26,31,34,38,43,47,49,53,54	-4.31	0.14	-10.90	-5.91	6.58	-1.46	-4.77	5.09	1.00	-4.50	-0.60	0.11	-10.68	-4.97	1.06	2.28	4.21	**-27.6**
1166	4918	2,4,7,9,10,16,20,23,26,33,37,42,46,48,52,53,54	-1.92	-1.41	-5.88	3.35	-1.66	-3.18	-1.19	0.85	-1.08	-5.26	0.64	0.11	-10.27	2.28	-3.11	2.28	-2.17	**-27.6**
1167	1820	1,6,10,16,20,23,27,28,31,33,37,40,43,47,46,48,52,53,54	-1.50	-1.15	-6.03	3.59	-0.86	-0.60	-1.91	-3.55	-2.84	-2.79	0.51	0.11	-10.28	0.96	2.45	-1.54	-2.17	**-27.6**
1168	1796	1,6,10,16,20,23,26,31,34,38,40,42,49,53,54	-4.47	-1.41	-12.70	-2.49	7.53	-1.46	-5.49	0.00	1.58	-4.61	-0.36	0.11	-13.73	0.96	2.45	2.28	4.21	**-27.6**
1169	373	1,3,7,11,17,18,20,23,26,31,34,35,37,40,41,44,55	-2.57	-0.64	-5.58	-1.81	2.49	-1.46	-3.34	5.50	3.01	-4.74	0.04	-1.80	-7.29	-10.57	1.06	2.28	-2.17	**-27.6**
1170	838	1,3,7,9,10,13,17,21,27,26,33,37,42,46,48,52,53,54	-1.61	-0.38	-4.50	1.98	-2.96	-0.60	0.96	-1.51	-3.23	-7.95	1.15	0.11	-7.22	-2.99	1.06	2.28	-2.17	**-27.6**
1171	4648	2,4,7,9,10,15,23,26,31,34,35,37,40,43,47,46,48,52,53,54	-1.32	0.92	-3.76	0.08	-1.03	-1.46	-1.91	1.14	-0.80	-5.16	0.54	0.11	-6.96	-4.97	-3.11	2.28	-2.17	**-27.6**
1172	4793	2,4,7,9,10,16,18,21,27,26,31,34,35,37,40,41,44,55	-2.32	0.40	-4.97	-4.43	3.92	-0.60	-3.34	-2.62	-0.21	-7.08	0.37	-1.80	-5.14	3.26	-3.11	2.28	-2.17	**-27.6**
1173	4579	2,4,7,9,10,13,17,21,27,26,31,34,38,40,42,47,50,54	-4.02	0.92	-11.13	-2.97	7.06	1.11	-1.91	-0.44	2.10	-6.56	-0.16	-1.80	-10.17	-2.99	-3.11	2.28	4.21	**-27.6**
1174	4442	2,4,7,9,10,13,17,18,20,23,26,33,37,40,43,47,46,48,52,53,54	-1.30	0.40	-5.42	3.95	-2.67	-1.46	-0.47	0.85	-1.08	-5.06	0.73	0.11	-9.17	-3.98	-3.11	2.28	-2.17	**-27.6**
1175	4629	2,4,7,9,10,13,17,21,28,34,36,39,44,55	-3.86	-0.90	-0.36	-2.81	0.63	-2.32	-3.34	-2.04	-1.75	6.07	-1.73	-1.80	-3.52	-2.99	-3.11	-1.54	-2.17	**-27.6**
1176	714	1,3,7,9,10,13,17,18,20,23,27,28,34,35,37,42,46,48,52,53,54	-1.61	0.14	-5.90	3.46	-0.31	-2.32	-1.19	1.25	-1.29	-3.32	0.44	0.11	-10.35	-3.98	1.06	-1.54	-2.17	**-27.5**
1177	293	1,3,7,11,13,16,20,23,26,31,34,35,37,42,47,50,54	-4.39	-0.12	-11.72	-0.20	4.72	-0.60	-3.34	6.21	4.03	-4.29	-0.45	-1.80	-12.43	-4.31	1.06	2.28	-2.17	**-27.5**
1178	2280	1,6,9,11,17,18,20,23,26,31,34,35,37,42,46,48,52,53,54	-1.52	-0.38	-4.89	4.88	-1.34	-2.32	-1.19	1.41	0.89	-5.60	0.93	0.11	-9.16	-11.89	2.45	2.28	-2.17	**-27.5**
1179	241	1,3,7,11,13,16,18,21,28,31,33,37,40,41,44,55	-2.74	-0.64	-5.10	-2.82	3.35	0.25	-1.91	2.74	-1.76	-5.83	0.20	-1.80	-5.48	-3.32	1.06	-1.54	-2.17	**-27.5**
1180	4695	2,4,7,9,10,15,23,27,28,31,33,37,42,46,48,51	-0.83	-0.38	-1.79	1.64	-4.69	-1.46	-0.47	0.43	-3.91	-3.04	0.51	2.02	-3.75	-4.97	-3.11	-1.54	-2.17	**-27.5**
1181	1120	1,3,7,9,10,16,18,21,28,34,38,43,50,54	-4.85	-0.90	-12.08	-3.83	8.83	0.25	-2.62	-0.04	0.68	-5.58	-0.54	-1.80	-12.02	3.26	1.06	-1.54	4.21	**-27.5**
1182	3547	2,4,3,6,9,11,17,18,20,23,26,31,34,38,40,42,47,50,54	-3.88	0.92	-11.60	0.31	7.15	-0.60	-3.34	2.48	5.01	-4.11	-0.38	-1.80	-11.89	-11.89	-0.33	2.28	4.21	**-27.5**
1183	3514	2,4,3,6,9,11,13,16,20,23,27,28,34,38,40,42,49,53,54	-4.21	0.14	-12.30	0.39	9.49	-2.32	-4.77	4.56	1.27	-2.81	-0.51	0.11	-13.21	-5.63	-0.33	-1.54	4.21	**-27.4**
1184	3431	2,4,3,6,9,11,13,16,18,21,28,34,38,43,47,49,53,54	-4.27	0.66	-11.21	-0.45	9.88	-0.60	-3.34	1.80	-0.88	-6.02	-0.06	0.11	-10.77	-4.64	-0.33	-1.54	4.21	**-27.4**
1185	2148	1,6,9,11,13,16,18,21,28,31,33,37,42,46,48,52,53,54	-1.70	-0.38	-4.41	3.87	-0.48	-0.60	0.25	-1.35	-3.88	-6.69	1.09	0.11	-7.35	-4.64	2.45	-1.54	-2.17	**-27.4**
1186	4910	2,4,7,9,10,16,20,23,26,31,34,38,43,50,54	-4.69	-0.90	-12.72	-2.38	7.87	-2.32	-4.06	2.33	4.24	-4.21	-0.68	-1.80	-13.72	2.28	-3.11	2.28	4.21	**-27.4**
1187	848	1,3,7,9,10,13,17,21,28,31,33,37,40,43,47,46,48,52,53,54	-1.44	0.40	-4.76	2.51	-1.71	1.11	0.96	-1.51	-4.64	-6.28	0.93	0.11	-7.40	-2.99	1.06	-1.54	-2.17	**-27.4**
1188	2577	2,4,3,6,10,13,17,18,20,23,26,31,34,38,41,44,55	-2.53	-0.12	-6.44	-2.61	6.16	-3.18	-4.77	-3.19	2.88	-4.27	-0.01	-1.80	-8.34	-5.30	-0.33	2.28	4.21	**-27.4**
1189	2351	1,6,9,11,17,18,20,23,27,28,34,38,41,44,55	-2.83	-1.67	-6.37	-1.79	6.89	-2.32	-4.06	2.17	2.57	-2.52	-0.26	-1.80	-8.60	-11.89	2.45	-1.54	4.21	**-27.3**
1190	830	1,3,7,9,10,13,17,21,27,26,31,34,38,43,50,54	-4.38	0.14	-11.33	-3.76	6.57	0.25	-1.91	-0.04	2.10	-6.90	-0.18	-1.80	-10.66	-2.99	1.06	2.28	4.21	**-27.3**
1191	3032	2,4,3,6,10,16,20,23,26,31,34,35,37,42,46,48,52,53,54	-1.63	-0.38	-5.66	3.99	0.18	-3.18	-2.62	-3.95	-0.22	-5.28	0.80	0.11	-10.23	0.96	-0.33	2.28	-2.17	**-27.3**
1192	4136	2,4,7,11,17,18,20,23,26,31,34,35,37,42,46,48,52,53,54	-1.78	-0.38	-5.01	5.18	-0.89	-3.18	-0.47	5.81	1.21	-5.65	0.78	0.11	-9.47	-10.57	-3.11	2.28	-2.17	**-27.3**
1193	2454	1,6,9,11,17,21,27,26,33,37,40,43,47,46,48,52,53,54	-1.31	-0.64	-3.72	3.93	-2.74	1.11	0.96	-1.35	-2.46	-7.96	1.34	0.11	-6.25	-10.90	2.45	2.28	-2.17	**-27.3**
1194	2556	2,4,3,6,10,13,17,18,20,23,26,31,34,35,37,40,43,47,46,48,52,53,54	-1.00	1.44	-5.20	4.59	-0.83	-1.46	-1.91	-3.95	-0.22	-5.08	0.88	0.11	-9.13	-5.30	-0.33	2.28	-2.17	**-27.3**
1195	2330	1,6,9,11,17,18,20,23,27,28,34,35,37,40,43,47,46,48,52,53,54	-1.30	-0.12	-5.12	5.41	-0.09	-0.60	-1.19	1.41	-0.52	-3.33	0.63	0.11	-9.39	-11.89	2.45	-1.54	-2.17	**-27.3**
1196	1509	1,6,10,13,17,21,28,34,35,37,42,46,48,51	-1.08	-1.41	-2.37	4.20	-3.04	1.11	0.25	-7.02	-4.27	-6.65	1.24	2.02	-4.64	-4.31	2.45	-1.54	-2.17	**-27.3**
1197	1373	1,6,10,13,17,18,20,23,27,28,34,36,39,44,55	-3.63	-1.41	-1.38	-1.87	0.01	-3.18	-5.49	-3.69	0.05	9.54	-2.06	-1.80	-5.78	-5.30	2.45	-1.54	-2.17	**-27.3**
1198	125	1,3,7,11,13,15,23,27,28,34,38,40,42,47,50,54	-4.43	-0.38	-10.69	-4.00	7.96	0.25	-3.34	7.97	2.99	-2.15	-1.02	-1.80	-10.78	-11.56	1.06	-1.54	4.21	**-27.2**
1199	4004	2,4,7,11,13,16,18,21,28,31,33,37,42,46,48,52,53,54	-1.95	-0.38	-4.53	4.17	-0.03	-1.46	0.96	3.05	-3.56	-6.74	0.94	0.11	-7.66	-3.32	-3.11	-1.54	-2.17	**-27.2**
1200	2960	2,4,3,6,10,16,18,21,27,26,31,34,38,40,42,49,53,54	-4.03	0.66	-11.30	-2.90	8.20	-0.60	-4.06	-3.16	-0.57	-7.24	0.10	0.11	-10.56	1.95	-0.33	2.28	4.21	**-27.2**
1201	2603	2,4,3,6,10,13,17,18,20,23,27,28,31,33,37,42,46,48,51	-0.51	0.14	-3.22	6.15	-4.49	-1.46	-0.47	-4.66	-3.33	-2.96	0.86	2.02	-5.91	-5.30	-0.33	-1.54	-2.17	**-27.2**
1202	2174	1,6,9,11,13,16,18,21,28,34,38,40,42,49,53,54	-4.45	-0.38	-11.31	-1.67	9.15	0.25	-3.34	2.20	-0.88	-6.25	-0.08	0.11	-11.03	-4.64	2.45	-1.54	4.21	**-27.2**
1203	3103	2,4,3,6,10,16,20,23,27,28,34,38,41,44,55	-2.93	-1.67	-7.14	-2.68	8.42	-3.18	-5.49	-3.19	1.47	-2.20	-0.39	-1.80	-9.67	0.96	-0.33	-1.54	4.21	**-27.2**
1204	4207	2,4,7,11,17,18,20,23,27,28,34,38,41,44,55	-3.09	-1.67	-6.49	-1.49	7.34	-3.18	-3.34	6.57	2.89	-2.58	-0.41	-1.80	-8.91	-10.57	-3.11	-1.54	4.21	**-27.2**
1205	4310	2,4,7,11,17,21,27,26,33,37,40,43,47,46,48,52,53,54	-1.56	-0.64	-3.84	4.23	-2.29	0.25	1.68	3.05	-2.15	-8.01	1.18	0.11	-6.56	-9.58	-3.11	2.28	-2.17	**-27.1**
1206	455	1,3,7,11,17,18,20,23,27,28,34,38,43,47,49,53,54	-4.55	-0.90	-12.39	-0.28	7.96	-1.46	-3.34	9.77	1.58	-2.72	-0.66	0.11	-13.42	-10.57	1.06	-1.54	4.21	**-27.1**
1207	896	1,3,7,9,10,15,23,26,31,34,35,37,42,46,48,52,53,54	-1.65	0.14	-3.97	-0.66	-1.48	-2.32	-1.91	1.54	-0.80	-5.39	0.53	0.11	-7.45	-4.97	1.06	2.28	-2.17	**-27.1**
1208	690	1,3,7,9,10,13,17,18,20,23,26,33,37,42,46,48,52,53,54	-1.63	-0.38	-5.63	3.21	-3.13	-2.32	-0.47	1.25	-1.08	-5.29	0.73	0.11	-9.65	-3.98	1.06	2.28	-2.17	**-27.1**
1209	3082	2,4,3,6,10,16,20,23,27,28,34,35,37,40,43,47,46,48,52,53,54	-1.40	-0.12	-5.89	4.52	1.43	-1.46	-2.62	-3.95	-1.63	-3.01	0.50	0.11	-10.46	0.96	-0.33	-1.54	-2.17	**-27.1**
1210	4186	2,4,7,11,17,18,20,23,27,28,34,35,37,40,43,47,46,48,52,53,54	-1.56	-0.12	-5.24	5.71	0.36	-1.46	-0.47	5.81	-0.21	-3.39	0.48	0.11	-9.70	-10.57	-3.11	-1.54	-2.17	**-27.1**

Westar Energy- JEC to East Manhattan
345/230 kV Transmission Line Project
Table F-3: Weighted, Sorted Z-scores for All Routes

Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
1211	4431	2,4,7,9,10,13,17,18,20,23,26,31,34,38,40,42,47,50,54	-4.04	0.92	-12.26	-1.73	6.89	-0.60	-3.34	2.33	4.24	-3.90	-0.58	-1.80	-12.60	-3.98	-3.11	2.28	4.21	**-27.1**
1212	3148	2,4,3,6,8,14,30,33,37,42,49,53,54	-0.56	-1.93	3.51	-0.73	2.80	-2.32	2.40	-4.47	-14.92	0.73	0.59	2.02	0.11	-10.24	-0.33	-1.54	-2.17	**-27.1**
1213	3437	2,4,3,6,9,11,13,16,20,23,26,31,34,35,37,40,41,44,55	-2.23	0.40	-5.48	-0.74	4.24	-2.32	-4.77	0.30	2.69	-4.63	0.19	-1.80	-7.05	-5.63	-0.33	2.28	-2.17	**-27.0**
1214	1041	1,3,7,9,10,16,18,21,27,26,31,34,35,37,40,43,47,49,53,54	-3.78	1.70	-10.87	-3.22	4.54	1.11	-3.34	0.58	-1.52	-7.23	0.11	0.11	-9.65	3.26	1.06	2.28	-2.17	**-27.0**
1215	4030	2,4,7,11,13,16,18,21,28,34,38,40,42,49,53,54	-4.70	-0.38	-11.43	-1.37	9.60	-0.60	-2.62	6.61	-0.56	-6.30	-0.23	0.11	-11.34	-3.32	-3.11	-1.54	4.21	**-27.0**
1216	3273	2,4,3,6,9,11,13,15,23,27,28,34,36,39,44,55	-3.41	-0.12	0.96	-3.11	0.80	-4.03	-5.49	1.16	0.24	9.28	-2.12	-1.80	-2.35	-12.87	-0.33	-1.54	-2.17	**-26.9**
1217	967	1,3,7,9,10,15,23,27,28,34,38,41,44,55	-2.95	-1.15	-5.44	-7.33	6.75	-2.32	-4.77	2.30	0.89	-2.31	-0.65	-1.80	-6.88	-4.97	1.06	-1.54	4.21	**-26.9**
1218	3410	2,4,3,6,9,11,13,16,18,21,28,34,35,37,42,46,48,52,53,54	-1.61	0.66	-4.27	4.81	1.81	-1.46	-0.47	-1.75	-2.67	-6.91	1.08	0.11	-7.53	-4.64	-0.33	-1.54	-2.17	**-26.9**
1219	1763	1,6,10,16,18,21,28,34,38,41,44,55	-3.17	-2.19	-6.15	-4.74	8.09	-0.60	-4.06	-5.55	-0.68	-5.64	0.04	-1.80	-7.49	1.95	2.45	-1.54	4.21	**-26.9**
1220	202	1,3,7,11,13,16,18,21,27,26,31,34,35,37,40,43,50,54	-4.16	1.18	-10.43	-1.89	4.65	1.11	-1.91	3.45	1.88	-7.26	-0.02	-1.80	-9.53	-3.32	1.06	2.28	-2.17	**-26.9**
1221	4957	2,4,7,9,10,16,20,23,27,28,34,38,40,42,47,50,54	-4.44	-0.64	-12.95	-1.80	9.14	-0.60	-4.06	2.33	2.83	-1.83	-0.97	-1.80	-13.93	2.28	-3.11	-1.54	4.21	**-26.9**
1222	946	1,3,7,9,10,15,23,27,28,34,35,37,40,43,47,46,48,52,53,54	-1.42	0.40	-4.20	-0.13	-0.24	-0.60	-1.91	1.54	-2.21	-3.12	0.24	0.11	-7.67	-4.97	1.06	-1.54	-2.17	**-26.8**
1223	682	1,3,7,9,10,13,17,18,20,23,26,31,34,38,43,50,54	-4.39	0.14	-12.46	-2.52	6.40	-1.46	-3.34	2.72	4.24	-4.24	-0.60	-1.80	-13.09	-3.98	1.06	2.28	4.21	**-26.8**
1224	1555	1,6,10,15,23,26,31,34,36,39,44,55	-3.67	-1.41	0.56	-5.99	-1.16	-3.18	-6.21	-3.40	0.55	7.47	-1.97	-1.80	-2.87	-6.29	2.45	2.28	-2.17	**-26.8**
1225	2443	1,6,9,11,17,21,27,26,31,34,38,40,42,47,50,54	-4.04	-0.12	-10.56	-1.75	6.82	1.97	-1.91	0.12	2.86	-6.80	0.03	-1.80	-9.69	-10.90	2.45	2.28	4.21	**-26.8**
1226	2306	1,6,9,11,17,18,20,23,26,33,37,40,43,47,46,48,52,53,54	-1.32	-0.64	-4.85	5.17	-2.91	-0.60	-0.47	1.41	-0.32	-5.30	0.92	0.11	-8.68	-11.89	2.45	2.28	-2.17	**-26.8**
1227	2493	1,6,9,11,17,21,28,34,36,39,44,55	-3.89	-1.93	0.21	-1.60	0.39	-1.46	-3.34	-1.49	-0.99	5.84	-1.54	-1.80	-3.04	-10.90	2.45	-1.54	-2.17	**-26.8**
1228	1742	1,6,10,16,18,21,28,34,35,37,40,43,47,46,48,52,53,54	-1.64	-0.64	-4.90	2.46	1.10	1.11	-1.19	-6.31	-3.78	-6.45	0.93	0.11	-8.27	1.95	2.45	-1.54	-2.17	**-26.8**
1229	2864	2,4,3,6,10,15,23,27,28,34,38,40,42,46,48,52,53,54	-1.67	-0.38	-4.63	0.19	3.42	-2.32	-2.62	-2.19	-1.26	-3.14	0.22	0.11	-8.58	-6.29	-0.33	-1.54	4.21	**-26.8**
1230	3723	2,4,3,6,9,11,17,21,28,31,33,37,42,46,48,51	-0.77	-0.38	-1.64	6.43	-4.11	0.25	1.68	-2.46	-4.37	-6.66	1.37	2.02	-3.17	-10.90	-0.33	-1.54	-2.17	**-26.7**
1231	1801	1,6,10,16,20,23,26,31,34,38,43,47,49,53,54	-4.46	-1.41	-12.68	-2.09	7.75	-1.46	-5.49	0.00	1.58	-4.41	-0.35	0.11	-13.69	0.96	2.45	2.28	4.21	**-26.7**
1232	1473	1,6,10,13,17,21,27,26,31,34,38,41,44,55	-2.69	-1.15	-5.40	-4.68	5.83	-0.60	-3.34	-5.55	0.74	-6.96	0.40	-1.80	-6.14	-4.31	2.45	2.28	4.21	**-26.7**
1233	329	1,3,7,11,13,16,20,23,27,28,31,33,37,40,41,44,55	-2.68	-1.15	-6.17	-1.59	3.18	-1.46	-3.34	5.50	0.39	-2.42	-0.25	-1.80	-7.89	-4.31	1.06	-1.54	-2.17	**-26.6**
1234	558	1,3,7,11,17,21,27,26,33,37,42,46,48,52,53,54	-1.89	-1.41	-4.05	3.49	-2.75	-0.60	1.68	3.45	-2.15	-8.24	1.18	0.11	-7.05	-9.58	1.06	2.28	-2.17	**-26.6**
1235	1452	1,6,10,13,17,21,27,26,31,34,35,37,40,43,47,46,48,52,53,54	-1.16	0.40	-4.16	2.53	-1.16	1.11	-0.47	-6.31	-2.36	-7.77	1.29	0.11	-6.92	-4.31	2.45	2.28	-2.17	**-26.6**
1236	1208	1,3,7,9,10,16,20,23,27,28,34,38,43,50,54	-4.79	-1.41	-13.16	-2.59	8.66	-1.46	-4.06	2.72	2.83	-2.17	-0.98	-1.80	-14.42	2.28	1.06	-1.54	4.21	**-26.6**
1237	4299	2,4,7,11,17,21,27,26,31,34,38,40,42,47,50,54	-4.30	-0.12	-10.68	-1.45	7.27	1.11	-1.19	4.52	3.18	-6.85	-0.13	-1.80	-10.00	-9.58	-3.11	2.28	4.21	**-26.6**
1238	3058	2,4,3,6,10,16,20,23,26,33,37,40,43,47,46,48,52,53,54	-1.43	-0.64	-5.62	4.28	-1.38	-1.46	-1.91	-3.95	-1.42	-4.98	0.78	0.11	-9.75	0.96	-0.33	2.28	-2.17	**-26.6**
1239	4162	2,4,7,11,17,18,20,23,26,33,37,40,43,47,46,48,52,53,54	-1.58	-0.64	-4.97	5.47	-2.46	-1.46	0.25	5.81	0.00	-5.35	0.77	0.11	-8.99	-10.57	-3.11	2.28	-2.17	**-26.6**
1240	4349	2,4,7,11,17,21,28,34,36,39,44,55	-4.14	-1.93	0.09	-1.30	0.84	-2.32	-2.62	2.91	-0.67	5.78	-1.70	-1.80	-3.35	-9.58	-3.11	-1.54	-2.17	**-26.6**
1241	434	1,3,7,11,17,18,20,23,27,28,34,35,37,42,46,48,52,53,54	-1.89	-0.90	-5.45	4.97	-0.10	-2.32	-0.47	6.21	-0.21	-3.61	0.48	0.11	-10.18	-10.57	1.06	-1.54	-2.17	**-26.6**
1242	3519	2,4,3,6,9,11,13,16,20,23,27,28,34,38,43,47,49,53,54	-4.21	0.14	-12.28	0.79	9.71	-2.32	-4.77	4.56	1.27	-2.61	-0.50	0.11	-13.17	-5.63	-0.33	-1.54	4.21	**-26.6**
1243	2236	1,6,9,11,13,16,20,23,27,28,31,33,37,42,46,48,52,53,54	-1.64	-0.90	-5.49	5.11	-0.65	-2.32	-1.19	1.41	-1.73	-3.28	0.65	0.11	-9.76	-5.63	2.45	-1.54	-2.17	**-26.6**
1244	2835	2,4,3,6,10,15,23,27,28,31,33,37,40,43,47,46,48,51	-0.33	0.40	-1.52	2.57	-4.42	0.25	-1.19	-4.37	-4.25	-2.76	0.65	2.02	-3.23	-6.29	-0.33	-1.54	-2.17	**-26.5**
1245	568	1,3,7,11,17,21,28,31,33,37,40,43,47,46,48,52,53,54	-1.72	-0.64	-4.31	4.02	-1.50	1.11	1.68	3.45	-3.56	-6.57	0.96	0.11	-7.22	-9.58	1.06	-1.54	-2.17	**-26.4**
1246	922	1,3,7,9,10,15,23,26,33,37,40,43,47,46,48,52,53,54	-1.45	-0.12	-3.92	-0.37	-3.05	-0.60	-1.19	1.54	-2.00	-5.09	0.52	0.11	-6.96	-4.97	1.06	2.28	-2.17	**-26.4**
1247	1067	1,3,7,9,10,16,18,21,27,26,33,37,40,41,44,55	-2.45	-0.64	-5.14	-4.88	1.90	0.25	-2.62	-2.22	-1.42	-7.01	0.35	-1.80	-5.14	3.26	1.06	2.28	-2.17	**-26.4**
1248	550	1,3,7,11,17,21,27,26,31,34,38,43,50,54	-4.66	-0.90	-10.88	-2.25	6.78	0.25	-1.19	4.92	3.18	-7.19	-0.14	-1.80	-10.49	-9.58	1.06	2.28	4.21	**-26.4**
1249	4092	2,4,7,11,13,16,20,23,27,28,31,33,37,42,46,48,52,53,54	-1.89	-0.90	-5.61	5.41	-0.20	-3.18	-0.47	5.81	-1.42	-3.33	0.49	0.11	-10.07	-4.31	-3.11	-1.54	-2.17	**-26.4**
1250	2965	2,4,3,6,10,16,18,21,27,26,31,34,38,43,47,49,53,54	-4.02	0.66	-11.28	-2.50	8.42	-0.60	-4.06	-3.16	-0.57	-7.05	0.11	0.11	-10.53	1.95	-0.33	2.28	4.21	**-26.4**
1251	4607	2,4,7,9,10,13,17,21,28,31,33,37,42,46,48,51	-0.92	-0.38	-2.30	4.38	-4.38	0.25	1.68	-2.62	-5.13	-6.45	1.17	2.02	-3.88	-2.99	-3.11	-1.54	-2.17	**-26.4**
1252	729	1,3,7,9,10,13,17,18,20,23,27,28,34,38,40,42,47,50,54	-4.14	0.40	-12.70	-1.94	7.68	0.25	-3.34	2.72	2.83	-1.86	-0.88	-1.80	-13.31	-3.98	1.06	-1.54	4.21	**-26.3**
1253	2295	1,6,9,11,17,18,20,23,26,31,34,38,40,42,47,50,54	-4.06	-0.12	-11.69	-0.51	6.65	0.25	-3.34	2.88	5.01	-4.14	-0.39	-1.80	-12.12	-11.89	2.45	2.28	4.21	**-26.3**
1254	2262	1,6,9,11,13,16,20,23,27,28,34,38,40,42,49,53,54	-4.39	-0.90	-12.38	-0.43	8.98	-1.46	-4.77	4.96	1.27	-2.84	-0.52	0.11	-13.43	-5.63	2.45	-1.54	4.21	**-26.3**
1255	2179	1,6,9,11,13,16,18,21,28,34,38,43,47,49,53,54	-4.44	-0.38	-11.30	-1.27	9.37	0.25	-3.34	2.20	-0.88	-6.05	-0.07	0.11	-10.99	-4.64	2.45	-1.54	4.21	**-26.3**
1256	1325	1,6,10,13,17,18,20,23,26,31,34,38,41,44,55	-2.71	-1.15	-6.53	-3.44	5.66	-2.32	-4.77	-2.79	2.88	-4.30	-0.02	-1.80	-8.57	-5.30	2.45	2.28	4.21	**-26.2**
1257	1780	1,6,10,16,20,23,26,31,34,35,37,42,46,48,52,53,54	-1.80	-1.41	-5.75	3.17	-0.32	-2.32	-2.62	-3.55	-0.22	-5.31	0.79	0.11	-10.46	0.96	2.45	2.28	-2.17	**-26.2**
1258	2870	2,4,3,6,10,15,23,27,28,34,38,43,47,46,48,52,53,54	-1.67	-0.64	-4.61	0.59	3.64	-2.32	-2.62	-2.19	-1.26	-2.94	0.23	0.11	-8.55	-6.29	-0.33	-1.54	4.21	**-26.2**
1259	410	1,3,7,11,17,18,20,23,26,33,37,42,46,48,52,53,54	-1.91	-1.41	-5.18	4.73	-2.92	-2.32	0.25	6.21	0.00	-5.58	0.76	0.11	-9.48	-10.57	1.06	2.28	-2.17	**-26.1**
1260	1304	1,6,10,13,17,18,20,23,26,31,34,35,37,40,43,47,46,48,52,53,54	-1.18	0.40	-5.29	3.76	-1.33	-0.60	-1.91	-3.55	-0.22	-5.11	0.87	0.11	-9.35	-5.30	2.45	2.28	-2.17	**-26.1**
1261	3047	2,4,3,6,10,16,20,23,26,31,34,38,40,42,47,50,54	-4.16	-0.12	-12.45	-1.40	8.17	-0.60	-4.77	-2.48	3.90	-3.82	-0.53	-1.80	-13.19	0.96	-0.33	2.28	4.21	**-26.1**
1262	4151	2,4,7,11,17,18,20,23,26,31,34,38,40,42,47,50,54	-4.32	-0.12	-11.81	-0.21	7.10	-0.60	-2.62	7.28	5.32	-4.19	-0.55	-1.80	-12.43	-10.57	-3.11	2.28	4.21	**-26.1**
1263	4118	2,4,7,11,13,16,20,23,27,28,34,38,40,42,49,53,54	-4.64	-0.90	-12.50	-0.14	9.43	-2.32	-4.06	9.37	1.58	-2.89	-0.67	0.11	-13.74	-4.31	-3.11	-1.54	4.21	**-26.1**
1264	4830	2,4,7,9,10,16,18,21,27,26,33,37,42,46,48,52,53,54	-1.66	-0.38	-4.57	2.12	-1.49	-1.46	0.25	-1.91	-3.23	-7.92	1.09	0.11	-7.33	3.26	-3.11	2.28	-2.17	**-26.1**
1265	4035	2,4,7,11,13,16,18,21,28,34,38,43,47,49,53,54	-4.70	-0.38	-11.42	-0.98	9.82	-0.60	-2.62	6.61	-0.56	-6.10	-0.22	0.11	-11.30	-3.32	-3.11	-1.54	4.21	**-26.1**

Table F-3: Weighted, Sorted Z-scores for All Routes

Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
1266	1708	1,6,10,16,18,21,27,26,31,34,38,40,42,49,53,54	-4.20	-0.38	-11.39	-3.72	7.70	0.25	-4.06	-2.76	-0.57	-7.27	0.09	0.11	-10.79	1.95	2.45	2.28	4.21	**-26.1**
1267	1351	1,6,10,13,17,18,20,23,27,28,31,33,37,42,46,48,51	-0.69	-0.90	-3.31	5.33	-5.00	-0.60	-0.47	-4.26	-3.33	-2.99	0.84	2.02	-6.14	-5.30	2.45	-1.54	-2.17	**-26.1**
1268	3498	2,4,3,6,9,11,13,16,20,23,27,34,35,37,42,46,48,52,53,54	-1.55	0.14	-5.35	6.04	1.64	-3.18	-1.91	1.01	-0.52	-3.50	0.63	0.11	-9.94	-5.63	-0.33	-1.54	-2.17	**-26.0**
1269	1851	1,6,10,16,20,23,27,28,34,38,41,44,55	-3.11	-2.71	-7.22	-3.50	7.92	-2.32	-5.49	-2.79	1.47	-2.23	-0.40	-1.80	-9.90	0.96	2.45	-1.54	4.21	**-26.0**
1270	205	1,3,7,11,13,16,18,21,27,26,31,34,35,37,42,47,50,54	-4.12	0.92	-10.41	-1.44	4.90	1.11	-1.91	3.45	1.88	-6.95	0.00	-1.80	-9.48	-3.32	1.06	2.28	-2.17	**-26.0**
1271	1830	1,6,10,16,20,23,27,28,34,35,37,40,43,47,46,48,52,53,54	-1.58	-1.15	-5.98	3.70	0.93	-0.60	-2.62	-3.55	-1.63	-3.04	0.49	0.11	-10.68	0.96	2.45	-1.54	-2.17	**-25.9**
1272	1896	1,6,8,14,30,33,37,42,49,53,54	-0.73	-2.97	3.42	-1.56	2.30	-1.46	2.40	-4.07	-14.92	0.70	0.58	2.02	-0.11	-10.24	2.45	-1.54	-2.17	**-25.9**
1273	2185	1,6,9,11,13,16,20,23,26,31,34,35,37,40,41,44,55	-2.40	-0.64	-5.56	-1.57	3.73	-1.46	-4.77	0.70	2.69	-4.66	0.18	-1.80	-7.27	-5.63	2.45	2.28	-2.17	**-25.9**
1274	4840	2,4,7,9,10,16,18,21,28,31,33,37,40,43,47,46,48,52,53,54	-1.48	0.40	-4.83	2.65	-0.24	0.25	0.25	-1.91	-4.64	-6.25	0.87	0.11	-7.51	3.26	-3.11	-1.54	-2.17	**-25.9**
1275	911	1,3,7,9,10,15,23,26,31,34,38,40,42,47,50,54	-4.18	0.40	-10.76	-6.05	6.50	0.25	-4.06	3.01	3.32	-3.93	-0.79	-1.80	-10.40	-4.97	1.06	2.28	4.21	**-25.9**
1276	3225	2,4,3,6,9,11,13,15,23,26,31,34,38,41,44,55	-2.49	0.14	-4.20	-4.68	6.45	-3.18	-4.77	2.05	3.07	-4.56	-0.08	-1.80	-5.14	-12.87	-0.33	2.28	4.21	**-25.9**
1277	402	1,3,7,11,17,18,20,23,26,31,34,38,43,50,54	-4.67	-0.90	-12.01	-1.01	6.61	-1.46	-2.62	7.68	5.32	-4.53	-0.56	-1.80	-12.92	-10.57	1.06	2.28	4.21	**-25.9**
1278	4822	2,4,7,9,10,16,18,21,27,26,31,34,38,43,50,54	-4.42	0.14	-11.41	-3.62	8.04	-0.60	-2.62	-0.44	2.10	-6.87	-0.24	-1.80	-10.77	3.26	-3.11	2.28	4.21	**-25.9**
1279	251	1,3,7,11,13,16,18,21,28,34,35,37,40,41,44,55	-2.83	-0.64	-5.05	-2.71	5.14	0.25	-2.62	2.74	-0.55	-6.09	0.17	-1.80	-5.88	-3.32	1.06	-1.54	-2.17	**-25.8**
1280	4705	2,4,7,9,10,15,23,27,28,34,35,37,42,46,48,51	-0.91	-0.38	-1.74	1.75	-2.91	-1.46	-1.19	0.43	-2.70	-3.29	0.48	2.02	-4.15	-4.97	-3.11	-1.54	-2.17	**-25.8**
1281	2944	2,4,3,6,10,16,18,21,27,26,31,34,35,37,42,46,48,52,53,54	-1.36	0.66	-4.35	2.75	0.36	-1.46	-1.19	-6.71	-2.36	-7.94	1.24	0.11	-7.29	1.95	-0.33	2.28	-2.17	**-25.8**
1282	3204	2,4,3,6,9,11,13,15,23,26,31,34,35,37,40,43,47,46,48,52,53,54	-0.96	1.70	-2.95	2.53	-0.54	-1.46	-1.91	1.29	-0.03	-5.37	0.81	0.11	-5.92	-12.87	-0.33	2.28	-2.17	**-25.8**
1283	2021	1,6,9,11,13,15,23,27,28,34,36,39,44,55	-3.59	-1.15	0.87	-3.93	0.29	-3.18	-5.49	1.56	0.24	9.25	-2.14	-1.80	-2.58	-12.87	2.45	-1.54	-2.17	**-25.8**
1284	879	1,3,7,9,10,13,17,21,28,34,38,41,44,55	-3.05	-1.15	-5.96	-4.59	7.07	-0.60	-2.62	-0.75	-0.34	-5.73	0.01	-1.80	-7.01	-2.99	1.06	-1.54	4.21	**-25.8**
1285	2158	1,6,9,11,13,16,18,21,28,34,35,37,42,46,48,52,53,54	-1.78	-0.38	-4.36	3.98	1.31	-0.60	-0.47	-1.35	-2.67	-6.94	1.07	0.11	-7.76	-4.64	2.45	-1.54	-2.17	**-25.8**
1286	3251	2,4,3,6,9,11,13,15,23,27,28,31,33,37,42,46,48,51	-0.47	0.40	-0.98	4.09	-4.21	-1.46	-0.47	0.58	-3.14	-3.25	0.78	2.02	-2.71	-12.87	-0.33	-1.54	-2.17	**-25.7**
1287	4041	2,4,7,11,13,16,20,23,26,31,34,35,37,40,41,44,55	-2.66	-0.64	-5.68	-1.27	4.18	-2.32	-4.06	5.10	3.01	-4.71	0.03	-1.80	-7.58	-4.31	-3.11	2.28	-2.17	**-25.7**
1288	3425	2,4,3,6,9,11,13,16,18,21,28,34,38,40,42,47,50,54	-4.14	0.92	-11.07	-0.59	9.80	1.11	-2.62	-0.28	1.45	-5.45	-0.25	-1.80	-10.48	-4.64	-0.33	-1.54	4.21	**-25.7**
1289	858	1,3,7,9,10,13,17,21,28,34,35,37,40,43,47,46,48,52,53,54	-1.52	0.40	-4.71	2.62	0.08	1.11	0.25	-1.51	-3.43	-6.54	0.90	0.11	-7.80	-2.99	1.06	-1.54	-2.17	**-25.7**
1290	1612	1,6,10,15,23,27,28,34,38,40,42,46,48,52,53,54	-1.85	-1.41	-4.71	-0.63	2.92	-1.46	-2.62	-1.79	-1.26	-3.17	0.21	0.11	-8.81	-6.29	2.45	-1.54	4.21	**-25.6**
1291	2776	2,4,3,6,10,13,17,21,28,34,38,40,42,46,48,52,53,54	-1.77	-0.38	-5.14	2.93	3.74	-0.60	-0.47	-5.24	-2.48	-6.55	0.89	0.11	-8.71	-4.31	-0.33	-1.54	4.21	**-25.6**
1292	2471	1,6,9,11,17,21,28,31,33,37,42,46,48,51	-0.95	-1.41	-1.73	5.60	-4.62	1.11	1.68	-2.06	-4.37	-6.69	1.36	2.02	-3.39	-10.90	2.45	-1.54	-2.17	**-25.6**
1293	3877	2,4,7,11,13,15,23,27,28,34,36,39,44,55	-3.84	-1.15	0.75	-3.64	0.74	-4.03	-4.77	5.96	0.55	9.20	-2.29	-1.80	-2.89	-11.56	-3.11	-1.54	-2.17	**-25.6**
1294	3474	2,4,3,6,9,11,13,16,20,23,26,33,37,42,46,48,52,53,54	-1.57	-0.38	-5.07	5.80	-1.17	-3.18	-1.19	1.01	-0.32	-5.46	0.92	0.11	-9.23	-5.63	-0.33	2.28	-2.17	**-25.6**
1295	2737	2,4,3,6,10,13,17,21,27,26,33,37,42,46,48,51	-0.60	-0.38	-1.77	4.78	-5.35	0.25	0.96	-7.42	-4.06	-7.83	1.53	2.02	-3.18	-4.31	-0.33	2.28	-2.17	**-25.6**
1296	4014	2,4,7,11,13,16,18,21,28,34,35,37,42,46,48,52,53,54	-2.04	-0.38	-4.48	4.28	1.76	-1.46	0.25	3.05	-2.35	-6.99	0.91	0.11	-8.07	-3.32	-3.11	-1.54	-2.17	**-25.6**
1297	3349	2,4,3,6,9,11,13,16,18,21,27,26,31,34,35,37,40,41,44,55	-1.96	1.44	-4.17	-1.98	4.41	-0.60	-3.34	-2.46	0.55	-7.29	0.64	-1.80	-4.10	-4.64	-0.33	2.28	-2.17	**-25.5**
1298	2613	2,4,3,6,10,13,17,18,20,23,27,28,34,37,42,46,48,51	-0.60	0.14	-3.17	6.26	-2.70	-1.46	-1.19	-4.66	-2.12	-3.21	0.83	2.02	-6.31	-5.30	-0.33	-1.54	-2.17	**-25.5**
1299	1806	1,6,10,16,20,23,26,33,37,40,43,47,46,48,52,53,54	-1.60	-1.67	-5.70	3.45	-1.89	-0.60	-1.91	-3.55	-1.42	-5.01	0.77	0.11	-9.98	0.96	2.45	2.28	-2.17	**-25.5**
1300	2267	1,6,9,11,13,16,20,23,27,28,34,38,43,47,49,53,54	-4.38	-0.90	-12.37	-0.03	9.20	-1.46	-4.77	4.96	1.27	-2.64	-0.52	0.11	-13.40	-5.63	2.45	-1.54	4.21	**-25.4**
1301	4327	2,4,7,11,17,21,28,31,33,37,42,46,48,51	-1.20	-1.41	-1.85	5.90	-4.17	0.25	2.40	2.34	-4.05	-6.74	1.21	2.02	-3.70	-9.58	-3.11	-1.54	-2.17	**-25.4**
1302	1088	1,3,7,9,10,16,18,21,28,31,33,37,42,46,48,52,53,54	-1.81	-0.38	-5.04	1.91	-0.70	-0.60	0.25	-1.51	-4.64	-6.48	0.87	0.11	-7.99	3.26	1.06	-1.54	-2.17	**-25.4**
1303	96	1,3,7,11,13,15,23,27,28,31,33,37,40,43,47,46,48,52,53,54	-1.41	0.14	-3.65	1.68	-1.59	-0.60	-0.47	6.50	-2.34	-3.16	0.37	0.11	-6.76	-11.56	1.06	-1.54	-2.17	**-25.4**
1304	72	1,3,7,11,13,15,23,26,31,34,38,40,42,49,53,54	-4.39	-0.12	-10.32	-4.39	6.79	-1.46	-4.06	10.05	2.08	-4.98	-0.50	0.11	-10.21	-11.56	1.06	2.28	4.21	**-25.4**
1305	4681	2,4,7,9,10,15,23,26,33,37,42,46,48,51	-0.93	-0.90	-1.46	1.51	-5.72	-1.46	-0.47	0.43	-2.49	-5.25	0.76	2.02	-3.44	-4.97	-3.11	2.28	-2.17	**-25.4**
1306	449	1,3,7,11,17,18,20,23,27,28,34,38,40,42,47,50,54	-4.42	-0.64	-12.24	-0.42	7.89	0.25	-2.62	7.68	3.91	-2.15	-0.85	-1.80	-13.13	-10.57	1.06	-1.54	4.21	**-25.4**
1307	1583	1,6,10,15,23,27,28,31,33,37,40,43,47,46,48,51	-0.50	-0.64	-1.61	1.74	-4.92	1.11	-1.19	-3.97	-4.25	-2.79	0.63	2.02	-3.45	-6.29	2.45	-1.54	-2.17	**-25.4**
1308	2747	2,4,3,6,10,13,17,21,28,31,33,37,40,43,47,46,48,51	-0.42	0.40	-2.03	5.31	-4.10	1.97	0.96	-7.42	-5.47	-6.17	1.31	2.02	-3.36	-4.31	-0.33	-1.54	-2.17	**-25.4**
1309	3466	2,4,3,6,9,11,13,16,20,23,26,31,34,38,43,50,54	-4.33	0.14	-11.91	0.06	8.35	-2.32	-4.06	2.48	5.01	-4.41	-0.41	-1.80	-12.68	-5.63	-0.33	2.28	4.21	**-25.3**
1310	3144	2,4,3,6,8,14,30,33,37,40,43,50,54	-0.46	-1.41	3.65	-0.93	2.69	-0.60	3.11	-6.55	-12.59	1.19	0.38	0.11	0.39	-10.24	-0.33	-1.54	-2.17	**-25.3**
1311	4123	2,4,7,11,13,16,20,23,27,28,34,38,43,47,49,53,54	-4.64	-0.90	-12.49	0.26	9.65	-2.32	-4.06	9.37	1.58	-2.69	-0.67	0.11	-13.71	-4.31	-3.11	-1.54	4.21	**-25.2**
1312	1713	1,6,10,16,18,21,27,26,31,34,38,43,47,49,53,54	-4.20	-0.38	-11.37	-3.33	7.92	0.25	-4.06	-2.76	-0.57	-7.08	0.09	0.11	-10.75	1.95	2.45	2.28	4.21	**-25.2**
1313	289	1,3,7,11,13,16,20,23,26,31,34,35,37,40,43,47,49,53,54	-4.12	0.66	-11.58	-0.06	4.80	-0.60	-4.06	8.30	1.70	-4.86	-0.23	0.11	-12.09	-4.31	1.06	2.28	-2.17	**-25.2**
1314	1114	1,3,7,9,10,16,18,21,28,34,38,40,42,49,53,54	-4.56	-0.38	-11.94	-3.63	8.94	0.25	-3.34	2.05	-1.64	-6.04	-0.30	0.11	-11.66	3.26	1.06	-1.54	4.21	**-25.1**
1315	2970	2,4,3,6,10,16,18,21,27,26,33,37,40,43,47,46,48,52,53,54	-1.16	0.40	-4.31	3.04	-1.21	0.25	-0.47	-6.71	-3.57	-7.64	1.23	0.11	-6.81	1.95	-0.33	2.28	-2.17	**-25.1**
1316	2795	2,4,3,6,10,15,23,26,31,34,35,37,42,46,48,51	-0.63	0.14	-1.24	2.14	-3.88	-1.46	-1.91	-4.37	-1.63	-5.27	0.92	2.02	-3.41	-6.29	-0.33	2.28	-2.17	**-25.1**
1317	2589	2,4,3,6,10,13,17,18,20,23,26,33,37,42,46,48,51	-0.62	-0.38	-2.90	6.01	-5.52	-1.46	-0.47	-4.66	-1.91	-5.17	1.11	2.02	-5.61	-5.30	-0.33	2.28	-2.17	**-25.1**
1318	3733	2,4,3,6,9,11,17,21,28,34,35,37,42,46,48,51	-0.85	-0.38	-1.59	6.54	-2.32	0.25	0.96	-2.46	-3.16	-6.91	1.35	2.02	-3.57	-10.90	-0.33	-1.54	-2.17	**-25.1**
1319	3597	2,4,3,6,9,11,17,18,20,23,27,28,34,36,39,44,55	-3.40	-0.38	-0.60	0.47	0.72	-4.03	-4.77	0.87	1.16	9.28	-1.95	-1.80	-4.71	-11.89	-0.33	-1.54	-2.17	**-25.1**
1320	4928	2,4,7,9,10,16,20,23,27,28,31,33,37,40,43,47,46,48,52,53,54	-1.42	-0.12	-5.91	3.89	-0.41	-1.46	-1.19	0.85	-2.49	-2.84	0.42	0.11	-9.91	2.28	-3.11	-1.54	-2.17	**-25.0**

Table F-3: Weighted, Sorted Z-scores for All Routes

		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
1321	1618	1,6,10,15,23,27,28,34,38,43,47,46,48,52,53,54	-1.84	-1.67	-4.70	-0.23	3.14	-1.46	-2.62	-1.79	-1.26	-2.97	0.22	0.11	-8.77	-6.29	2.45	-1.54	4.21	**-25.0**
1322	4904	2,4,7,9,10,16,20,23,26,31,34,38,40,42,49,53,54	-4.39	-0.38	-12.58	-2.19	7.97	-2.32	-4.77	4.41	1.92	-4.66	-0.45	0.11	-13.36	2.28	-3.11	2.28	4.21	**-25.0**
1323	2782	2,4,3,6,10,13,17,21,28,34,38,43,47,46,48,52,53,54	-1.76	-0.64	-5.12	3.33	3.96	-0.60	-0.47	-5.24	-2.48	-6.35	0.90	0.11	-8.68	-4.31	-0.33	-1.54	4.21	**-25.0**
1324	824	1,3,7,9,10,13,17,21,27,26,31,34,38,40,42,49,53,54	-4.08	0.66	-11.19	-3.57	6.68	0.25	-2.62	2.05	-0.23	-7.36	0.06	0.11	-10.31	-2.99	1.06	2.28	4.21	**-25.0**
1325	1795	1,6,10,16,20,23,26,31,34,38,40,42,47,50,54	-4.34	-1.15	-12.54	-2.23	7.67	0.25	-4.77	-2.08	3.90	-3.85	-0.54	-1.80	-13.41	0.96	2.45	2.28	4.21	**-25.0**
1326	339	1,3,7,11,13,16,20,23,27,28,34,35,37,40,41,44,55	-2.77	-1.15	-6.12	-1.48	4.97	-1.46	-4.06	5.50	1.59	-2.68	-0.27	-1.80	-8.29	-4.31	1.06	-1.54	-2.17	**-25.0**
1327	2246	1,6,9,11,13,16,20,23,27,28,34,35,37,42,46,48,52,53,54	-1.72	-0.90	-5.44	5.22	1.14	-2.32	-1.91	1.41	-0.52	-3.53	0.62	0.11	-10.16	-5.63	2.45	-1.54	-2.17	**-24.9**
1328	2845	2,4,3,6,10,15,23,27,28,34,35,37,40,43,47,46,48,51	-0.41	0.40	-1.47	2.68	-2.63	0.25	-1.91	-4.37	-3.04	-3.01	0.62	2.02	-3.63	-6.29	-0.33	-1.54	-2.17	**-24.8**
1329	3513	2,4,3,6,9,11,13,16,20,23,27,28,34,38,40,42,47,50,54	-4.08	0.40	-12.14	0.65	9.63	-0.60	-4.06	2.48	3.59	-2.04	-0.69	-1.80	-12.89	-5.63	-0.33	-1.54	4.21	**-24.8**
1330	599	1,3,7,11,17,21,28,34,38,41,44,55	-3.33	-2.19	-5.51	-3.07	7.28	-0.60	-1.91	4.21	0.74	-6.02	0.05	-1.80	-6.84	-9.58	1.06	-1.54	4.21	**-24.8**
1331	1973	1,6,9,11,13,15,23,26,31,34,38,41,44,55	-2.66	-0.90	-4.29	-5.50	5.94	-2.32	-4.77	2.45	3.07	-4.59	-0.09	-1.80	-5.36	-12.87	2.45	2.28	4.21	**-24.7**
1332	578	1,3,7,11,17,21,28,34,35,37,40,43,47,46,48,52,53,54	-1.80	-0.64	-4.26	4.13	0.29	1.11	0.96	3.45	-2.35	-6.83	0.94	0.11	-7.62	-9.58	1.06	-1.54	-2.17	**-24.7**
1333	4102	2,4,7,11,13,16,20,23,27,28,34,35,37,42,46,48,52,53,54	-1.98	-0.90	-5.56	5.52	1.59	-3.18	-1.19	5.81	-0.21	-3.58	0.47	0.11	-10.47	-4.31	-3.11	-1.54	-2.17	**-24.7**
1334	4617	2,4,7,9,10,13,17,21,28,34,35,37,42,46,48,51	-1.01	-0.38	-2.25	4.49	-2.59	0.25	0.96	-2.62	-3.92	-6.70	1.15	2.02	-4.28	-2.99	-3.11	-1.54	-2.17	**-24.7**
1335	4481	2,4,7,9,10,13,17,18,20,23,27,28,34,36,39,44,55	-3.56	-0.38	-1.26	-1.58	0.46	-4.03	-4.77	0.72	0.40	9.48	-2.15	-1.80	-5.41	-3.98	-3.11	-1.54	-2.17	**-24.7**
1336	1692	1,6,10,16,18,21,27,26,31,34,35,37,42,46,48,52,53,54	-1.54	-0.38	-4.44	1.93	-0.15	-0.60	-1.19	-6.31	-2.36	-7.97	1.23	0.11	-7.51	1.95	2.45	2.28	-2.17	**-24.7**
1337	1952	1,6,9,11,13,15,23,26,31,34,35,37,40,43,47,46,48,52,53,54	-1.14	0.66	-3.04	1.70	-1.04	-0.60	-1.91	1.69	-0.03	-5.40	0.80	0.11	-6.15	-12.87	2.45	2.28	-2.17	**-24.7**
1338	2959	2,4,3,6,10,16,18,21,27,26,31,34,38,40,42,47,50,54	-3.90	0.92	-11.14	-2.64	8.34	1.11	-3.34	-5.24	1.76	-6.48	-0.08	-1.80	-10.24	1.95	-0.33	2.28	4.21	**-24.6**
1339	3009	2,4,3,6,10,16,18,21,28,34,36,39,44,55	-3.74	-0.90	-0.38	-2.49	1.91	-2.32	-4.77	-6.85	-2.09	6.16	-1.65	-1.80	-3.59	1.95	-0.33	-1.54	-2.17	**-24.6**
1340	1999	1,6,9,11,13,15,23,27,28,31,33,37,42,46,48,51	-0.64	-0.64	-1.07	3.26	-4.71	-0.60	-0.47	0.98	-3.14	-3.27	0.77	2.02	-2.93	-12.87	2.45	-1.54	-2.17	**-24.6**
1341	3829	2,4,7,11,13,15,23,26,31,34,38,41,44,55	-2.92	-0.90	-4.41	-5.20	6.39	-3.18	-4.06	6.86	3.38	-4.64	-0.25	-1.80	-5.67	-11.56	-3.11	2.28	4.21	**-24.6**
1342	2173	1,6,9,11,13,16,18,21,28,34,38,40,42,47,50,54	-4.32	-0.12	-11.15	-1.41	9.30	1.97	-2.62	0.12	1.45	-5.48	-0.26	-1.80	-10.71	-4.64	2.45	-1.54	4.21	**-24.6**
1343	1176	1,3,7,9,10,16,20,23,27,28,31,33,37,42,46,48,52,53,54	-1.75	-0.90	-6.12	3.15	-0.87	-2.32	-1.19	1.25	-2.49	-3.07	0.42	0.11	-10.40	2.28	1.06	-1.54	-2.17	**-24.5**
1344	3697	2,4,3,6,9,11,17,21,27,26,31,34,38,41,44,55	-2.46	-0.12	-4.62	-2.34	6.54	-1.46	-2.62	-0.99	1.84	-7.22	0.51	-1.80	-5.06	-10.90	-0.33	2.28	4.21	**-24.5**
1345	315	1,3,7,11,13,16,20,23,26,33,37,40,41,44,55	-2.79	-1.67	-5.85	-1.72	2.16	-1.46	-3.34	5.50	1.80	-4.64	0.01	-1.80	-7.58	-4.31	1.06	2.28	-2.17	**-24.5**
1346	77	1,3,7,11,13,15,23,26,31,34,38,43,47,49,53,54	-4.38	-0.12	-10.30	-3.99	7.01	-1.46	-4.06	10.05	2.08	-4.79	-0.50	0.11	-10.18	-11.56	1.06	2.28	4.21	**-24.5**
1347	1524	1,6,10,13,17,21,28,34,38,40,42,46,48,52,53,54	-1.94	-1.41	-5.23	2.11	3.24	0.25	-0.47	-4.84	-2.48	-6.58	0.88	0.11	-8.94	-4.31	2.45	-1.54	4.21	**-24.5**
1348	700	1,3,7,9,10,13,17,18,20,23,27,28,31,33,37,40,43,47,46,48,52,53,54	-1.13	0.92	-5.66	3.75	-1.88	-0.60	-0.47	1.25	-2.49	-2.87	0.51	0.11	-9.29	-3.98	1.06	-1.54	-2.17	**-24.5**
1349	676	1,3,7,9,10,13,17,18,20,23,26,31,34,38,40,42,49,53,54	-4.10	0.66	-12.32	-2.33	6.51	-1.46	-4.06	4.81	1.92	-4.69	-0.36	0.11	-12.74	-3.98	1.06	2.28	4.21	**-24.5**
1350	3808	2,4,7,11,13,15,23,26,31,34,35,37,40,43,47,46,48,52,53,54	-1.39	0.66	-3.16	2.00	-0.60	-1.46	-1.19	6.10	0.28	-5.45	0.64	0.11	-6.46	-11.56	-3.11	2.28	-2.17	**-24.5**
1351	3676	2,4,3,6,9,11,17,21,27,26,31,34,35,37,40,43,47,46,48,52,53,54	-0.94	1.44	-3.38	4.87	-0.45	0.25	0.25	-1.75	-1.25	-8.03	1.40	0.11	-5.85	-10.90	-0.33	2.28	-2.17	**-24.4**
1352	2222	1,6,9,11,13,16,20,23,26,33,37,42,46,48,52,53,54	-1.74	-1.41	-5.16	4.97	-1.68	-2.32	-1.19	1.41	-0.32	-5.49	0.90	0.11	-9.46	-5.63	2.45	2.28	-2.17	**-24.4**
1353	1485	1,6,10,13,17,21,27,26,33,37,42,46,48,51	-0.78	-1.41	-1.86	3.95	-5.85	1.11	0.96	-7.02	-4.06	-7.86	1.52	2.02	-3.40	-4.31	2.45	2.28	-2.17	**-24.4**
1354	3147	2,4,3,6,8,14,30,33,37,42,47,50,54	-0.42	-1.67	3.67	-0.47	2.94	-0.60	3.11	-6.55	-12.59	1.49	0.41	0.11	0.43	-10.24	-0.33	-1.54	-2.17	**-24.4**
1355	2719	2,4,3,6,10,13,17,21,27,26,31,34,36,39,44,55	-3.26	0.14	0.37	-2.42	-0.34	-2.32	-4.06	-6.85	-0.68	4.84	-1.29	-1.80	-2.24	-4.31	-0.33	2.28	-2.17	**-24.4**
1356	3855	2,4,7,11,13,15,23,27,28,31,33,37,42,46,48,51	-0.90	-0.64	-1.19	3.56	-4.26	-1.46	0.25	5.39	-2.83	-3.33	0.62	2.02	-3.24	-11.56	-3.11	-1.54	-2.17	**-24.4**
1357	2097	1,6,9,11,13,16,18,21,27,26,31,34,35,37,40,41,44,55	-2.14	0.40	-4.25	-2.80	3.90	0.25	-3.34	-2.06	0.55	-7.32	0.63	-1.80	-4.33	-4.64	2.45	2.28	-2.17	**-24.4**
1358	2821	2,4,3,6,10,15,23,26,33,37,40,43,47,46,48,51	-0.43	-0.12	-1.20	2.43	-5.45	0.25	-1.19	-4.37	-2.83	-4.97	0.90	2.02	-2.92	-6.29	-0.33	2.28	-2.17	**-24.4**
1359	1361	1,6,10,13,17,18,20,23,27,28,34,35,37,42,46,48,51	-0.77	-0.90	-3.26	5.43	-3.21	-0.60	-1.19	-4.26	-2.12	-3.24	0.82	2.02	-6.54	-5.30	2.45	-1.54	-2.17	**-24.4**
1360	4029	2,4,7,11,13,16,18,21,28,34,38,40,42,47,50,54	-4.57	-0.12	-11.27	-1.11	9.75	1.11	-1.91	4.52	1.76	-5.53	-0.41	-1.80	-11.02	-3.32	-3.11	-1.54	4.21	**-24.4**
1361	4871	2,4,7,9,10,16,18,21,28,34,38,41,44,55	-3.09	-1.15	-6.03	-4.44	8.54	-1.46	-3.34	-1.15	-0.34	-5.70	-0.05	-1.80	-7.12	3.26	-3.11	-1.54	4.21	**-24.3**
1362	1202	1,3,7,9,10,16,20,23,27,28,34,38,40,42,49,53,54	-4.50	-0.90	-13.01	-2.40	8.76	-1.46	-4.77	4.81	0.50	-2.63	-0.75	0.11	-14.07	2.28	1.06	-1.54	4.21	**-24.3**
1363	1119	1,3,7,9,10,16,18,21,28,34,38,43,47,49,53,54	-4.56	-0.38	-11.93	-3.24	9.15	0.25	-3.34	2.05	-1.64	-5.84	-0.30	0.11	-11.63	3.26	1.06	-1.54	4.21	**-24.3**
1364	4078	2,4,7,11,13,16,20,23,26,33,37,42,46,48,52,53,54	-2.00	-1.41	-5.28	5.27	-1.23	-3.18	-0.47	5.81	0.00	-5.55	0.75	0.11	-9.77	-4.31	-3.11	2.28	-2.17	**-24.3**
1365	4663	2,4,7,9,10,15,23,26,31,34,36,39,44,55	-3.59	-0.38	0.68	-5.69	-0.71	-4.03	-5.49	1.00	0.89	7.42	-2.06	-1.80	-2.51	-4.97	-3.11	2.28	-2.17	**-24.2**
1366	1495	1,6,10,13,17,21,28,31,33,37,40,43,47,46,48,51	-0.60	-0.64	-2.12	4.49	-4.61	2.82	0.96	-7.02	-5.47	-6.20	1.30	2.02	-3.58	-4.31	2.45	-1.54	-2.17	**-24.2**
1367	4850	2,4,7,9,10,16,18,21,28,34,35,37,40,43,47,46,48,52,53,54	-1.57	0.40	-4.78	2.76	1.55	0.25	-0.47	-1.91	-3.43	-6.51	0.84	0.11	-7.91	3.26	-3.11	-1.54	-2.17	**-24.2**
1368	3953	2,4,7,11,13,16,18,21,27,26,31,34,35,37,40,41,44,55	-2.40	0.40	-4.37	-2.51	4.35	-0.60	-2.62	2.34	0.86	-7.37	0.47	-1.80	-4.64	-3.32	-3.11	2.28	-2.17	**-24.2**
1369	2214	1,6,9,11,13,16,20,23,26,31,34,38,43,50,54	-4.51	-0.90	-12.00	-0.76	7.85	-1.46	-4.06	2.88	5.01	-4.44	-0.42	-1.80	-12.90	-5.63	2.45	2.28	4.21	**-24.2**
1370	1892	1,6,8,14,30,33,37,40,43,50,54	-0.63	-2.45	3.56	-1.75	2.19	0.25	3.11	-6.15	-12.59	1.16	0.37	0.11	0.16	-10.24	2.45	-1.54	-2.17	**-24.2**
1371	4909	2,4,7,9,10,16,20,23,26,31,34,38,43,47,49,53,54	-4.39	-0.38	-12.56	-1.79	8.19	-2.32	-4.77	4.41	1.92	-4.47	-0.44	0.11	-13.33	2.28	-3.11	2.28	4.21	**-24.2**
1372	4581	2,4,7,9,10,13,17,21,27,26,31,34,38,41,44,55	-2.62	-0.12	-5.28	-4.38	6.28	-1.46	-2.62	-1.15	1.08	-7.01	0.31	-1.80	-5.77	-2.99	-3.11	2.28	4.21	**-24.1**
1373	280	1,3,7,11,13,16,18,21,28,34,38,43,50,54	-4.93	-0.90	-11.48	-1.91	9.26	0.25	-1.91	4.92	1.76	-5.87	-0.43	-1.80	-11.51	-3.32	1.06	-1.54	4.21	**-24.1**
1374	829	1,3,7,9,10,13,17,21,27,26,31,34,38,43,47,49,53,54	-4.08	0.66	-11.18	-3.17	6.90	0.25	-2.62	2.05	-0.23	-7.16	0.06	0.11	-10.27	-2.99	1.06	2.28	4.21	**-24.1**
1375	3386	2,4,3,6,9,11,13,16,18,21,27,26,33,37,42,46,48,52,53,54	-1.30	0.66	-3.76	4.56	-1.00	-1.46	0.25	-1.75	-2.46	-8.12	1.36	0.11	-6.29	-4.64	-0.33	2.28	-2.17	**-24.1**

Table F-3: Weighted, Sorted Z-scores for All Routes

		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
1376	4560	2,4,7,9,10,13,17,21,27,26,31,34,35,37,40,43,47,46,48,52,53,54	-1.09	1.44	-4.04	2.82	-0.71	0.25	0.25	-1.91	-2.02	-7.82	1.20	0.11	-6.55	-2.99	-3.11	2.28	-2.17	**-24.1**
1377	3261	2,4,3,6,9,11,13,15,23,27,28,34,35,37,42,46,48,51	-0.55	0.40	-0.93	4.20	-2.42	-1.46	-1.19	0.58	-1.94	-3.50	0.76	2.02	-3.11	-12.87	-0.33	-1.54	-2.17	**-24.1**
1378	544	1,3,7,11,17,21,27,26,31,34,38,40,42,49,53,54	-4.36	-0.38	-10.74	-2.05	6.89	0.25	-1.91	7.01	0.85	-7.65	0.09	0.11	-10.14	-9.58	1.06	2.28	4.21	**-24.0**
1379	3549	2,4,3,6,9,11,17,18,20,23,26,31,34,38,41,44,55	-2.48	-0.12	-5.75	-1.10	6.37	-3.18	-4.06	1.77	3.99	-4.56	0.09	-1.80	-7.49	-11.89	-0.33	2.28	4.21	**-24.0**
1380	4070	2,4,7,11,13,16,20,23,26,31,34,38,43,50,54	-4.76	-0.90	-12.12	-0.46	8.30	-2.32	-3.34	7.28	5.32	-4.50	-0.58	-1.80	-13.21	-4.31	-3.11	2.28	4.21	**-24.0**
1381	56	1,3,7,11,13,15,23,26,31,34,35,37,42,46,48,52,53,54	-1.72	-0.12	-3.37	1.26	-1.05	-2.32	-1.19	6.50	0.28	-5.68	0.64	0.11	-6.94	-11.56	1.06	2.28	-2.17	**-24.0**
1382	1718	1,6,10,16,18,21,27,26,33,37,40,43,47,46,48,52,53,54	-1.34	-0.64	-4.39	2.22	-1.72	1.11	-0.47	-6.31	-3.57	-7.67	1.22	0.11	-7.03	1.95	2.45	2.28	-2.17	**-24.0**
1383	1543	1,6,10,15,23,26,31,34,35,37,42,46,48,51	-0.81	-0.90	-1.33	1.32	-4.38	-0.60	-1.91	-3.97	-1.63	-5.30	0.91	2.02	-3.63	-6.29	2.45	2.28	-2.17	**-24.0**
1384	3528	2,4,3,6,9,11,17,18,20,23,26,31,34,35,37,40,43,47,46,48,52,53,54	-0.95	1.44	-4.51	6.10	-0.62	-1.46	-1.19	1.01	0.89	-5.37	0.98	0.11	-8.28	-11.89	-0.33	2.28	-2.17	**-23.9**
1385	1337	1,6,10,13,17,18,20,23,26,33,37,42,46,48,51	-0.79	-1.41	-2.99	5.19	-6.02	-0.60	-0.47	-4.26	-1.91	-5.20	1.10	2.02	-5.83	-5.30	2.45	2.28	-2.17	**-23.9**
1386	2571	2,4,3,6,10,13,17,18,20,23,26,31,34,36,39,44,55	-3.28	0.14	-0.76	-1.18	-0.51	-4.03	-5.49	-4.09	1.47	7.50	-1.71	-1.80	-4.67	-5.30	-0.33	2.28	-2.17	**-23.9**
1387	2481	1,6,9,11,17,21,28,34,35,37,42,46,48,51	-1.03	-1.41	-1.68	5.71	-2.83	1.11	0.96	-2.06	-3.16	-6.94	1.33	2.02	-3.79	-10.90	2.45	-1.54	-2.17	**-23.9**
1388	2345	1,6,9,11,17,18,20,23,27,28,34,36,39,44,55	-3.58	-1.41	-0.68	-0.36	0.22	-3.18	-4.77	1.27	1.16	9.25	-1.96	-1.80	-4.93	-11.89	2.45	-1.54	-2.17	**-23.9**
1389	1125	1,3,7,9,10,16,20,23,26,31,34,35,37,40,41,44,55	-2.52	-0.64	-6.19	-3.53	3.51	-1.46	-4.77	0.54	1.93	-4.45	-0.04	-1.80	-7.91	2.28	1.06	2.28	-2.17	**-23.9**
1390	1530	1,6,10,13,17,21,28,34,38,43,47,46,48,52,53,54	-1.94	-1.67	-5.21	2.51	3.46	0.25	-0.47	-4.84	-2.48	-6.38	0.88	0.11	-8.90	-4.31	2.45	-1.54	4.21	**-23.9**
1391	3575	2,4,3,6,9,11,17,18,20,23,27,28,31,33,37,42,46,48,51	-0.46	0.14	-2.53	7.66	-4.28	-1.46	0.25	0.30	-2.22	-3.25	0.95	2.02	-5.06	-11.89	-0.33	-1.54	-2.17	**-23.9**
1392	5004	2,4,7,9,8,14,30,33,37,42,49,53,54	-0.66	-2.45	3.54	-1.26	2.75	-2.32	3.11	0.34	-14.58	0.64	0.49	2.02	0.26	-8.92	-3.11	-1.54	-2.17	**-23.9**
1393	3396	2,4,3,6,9,11,13,16,18,21,28,31,33,37,40,43,47,46,48,52,53,54	-1.12	1.44	-4.03	5.09	0.25	0.25	0.25	-1.75	-3.88	-6.46	1.14	0.11	-6.47	-4.64	-0.33	-1.54	-2.17	**-23.9**
1394	3378	2,4,3,6,9,11,13,16,18,21,27,26,31,34,38,43,50,54	-4.07	1.18	-10.60	-1.17	8.52	-0.60	-2.62	-0.28	2.86	-7.07	0.03	-1.80	-9.73	-4.64	-0.33	2.28	4.21	**-23.8**
1395	127	1,3,7,11,13,15,23,27,28,34,38,41,44,55	-3.03	-1.41	-4.85	-5.41	7.18	-2.32	-4.06	7.26	1.97	-2.60	-0.55	-1.80	-6.38	-11.56	1.06	-1.54	4.21	**-23.8**
1396	4337	2,4,7,11,17,21,28,34,35,37,42,46,48,51	-1.29	-1.41	-1.80	6.01	-2.38	0.25	1.68	2.34	-2.84	-6.99	1.18	2.02	-4.10	-9.58	-3.11	-1.54	-2.17	**-23.7**
1397	3097	2,4,3,6,10,16,20,23,27,28,34,36,39,44,55	-3.68	-1.41	-1.45	-1.25	1.74	-4.03	-6.21	-4.09	0.05	9.57	-2.10	-1.80	-6.00	0.96	-0.33	-1.54	-2.17	**-23.7**
1398	4201	2,4,7,11,17,18,20,23,27,28,34,36,39,44,55	-3.83	-1.41	-0.80	-0.06	0.67	-4.03	-4.06	5.68	1.47	9.19	-2.11	-1.80	-5.24	-10.57	-3.11	-1.54	-2.17	**-23.7**
1399	1098	1,3,7,9,10,16,18,21,28,34,35,37,42,46,48,52,53,54	-1.90	-0.38	-4.99	2.02	1.09	-0.60	-0.47	-1.51	-3.43	-6.73	0.84	0.11	-8.39	3.26	1.06	-1.54	-2.17	**-23.7**
1400	106	1,3,7,11,13,15,23,27,28,34,35,37,40,43,47,46,48,52,53,54	-1.50	0.14	-3.60	1.79	0.19	-0.60	-1.19	6.50	-1.13	-3.41	0.34	0.11	-7.16	-11.56	1.06	-1.54	-2.17	**-23.7**
1401	1593	1,6,10,15,23,27,28,34,35,37,40,43,47,46,48,51	-0.59	-0.64	-1.56	1.85	-3.14	1.11	-1.91	-3.97	-3.04	-3.04	0.61	2.02	-3.85	-6.29	2.45	-1.54	-2.17	**-23.7**
1402	2261	1,6,9,11,13,16,20,23,27,28,34,38,40,42,47,50,54	-4.26	-0.64	-12.23	-0.17	9.13	0.25	-4.06	2.88	3.59	-2.07	-0.71	-1.80	-13.11	-5.63	2.45	-1.54	4.21	**-23.7**
1403	2757	2,4,3,6,10,13,17,21,28,34,35,37,40,43,47,46,48,51	-0.51	0.40	-1.98	5.42	-2.31	1.97	0.25	-7.42	-4.27	-6.42	1.29	2.02	-3.76	-4.31	-0.33	-1.54	-2.17	**-23.7**
1404	201	1,3,7,11,13,16,18,21,27,26,31,34,35,37,40,43,47,49,53,54	-3.86	1.70	-10.27	-1.30	4.97	1.11	-2.62	5.54	-0.44	-7.52	0.22	0.11	-9.14	-3.32	1.06	2.28	-2.17	**-23.7**
1405	4433	2,4,7,9,10,13,17,18,20,23,26,31,34,38,41,44,55	-2.63	-0.12	-6.41	-3.14	6.11	-3.18	-4.06	1.62	3.22	-4.35	-0.11	-1.80	-8.20	-3.98	-3.11	2.28	4.21	**-23.6**
1406	3237	2,4,3,6,9,11,13,15,23,26,33,37,42,46,48,51	-0.57	-0.12	-0.65	3.95	-5.24	-1.46	-0.47	0.58	-1.73	-5.46	1.04	2.02	-2.40	-12.87	-0.33	2.28	-2.17	**-23.6**
1407	4888	2,4,7,9,10,16,20,23,26,31,34,35,37,42,46,48,52,53,54	-1.73	-0.38	-5.63	3.46	0.13	-3.18	-1.91	0.85	0.13	-5.36	0.70	0.11	-10.09	2.28	-3.11	2.28	-2.17	**-23.6**
1408	681	1,3,7,9,10,13,17,18,20,23,26,31,34,38,43,47,49,53,54	-4.09	0.66	-12.31	-1.93	6.73	-1.46	-4.06	4.81	1.92	-4.50	-0.36	0.11	-12.70	-3.98	1.06	2.28	4.21	**-23.6**
1409	808	1,3,7,9,10,13,17,21,27,26,31,34,35,37,42,46,48,52,53,54	-1.42	0.66	-4.25	2.08	-1.17	-0.60	0.25	-1.51	-2.02	-8.05	1.20	0.11	-7.04	-2.99	1.06	2.28	-2.17	**-23.6**
1410	3118	2,4,3,6,8,14,30,31,34,35,37,42,49,53,54	-0.36	-1.41	3.76	-0.62	4.59	-2.32	1.68	-4.47	-13.71	0.62	0.64	2.02	0.29	-10.24	-0.33	-1.54	-2.17	**-23.6**
1411	4412	2,4,7,9,10,13,17,18,20,23,26,31,34,35,37,40,43,47,46,48,52,53,54	-1.10	1.44	-5.17	4.06	-0.88	-1.46	-1.19	0.85	0.13	-5.16	0.78	0.11	-8.98	-3.98	-3.11	2.28	-2.17	**-23.6**
1412	420	1,3,7,11,17,18,20,23,27,28,31,33,37,40,43,47,46,48,52,53,54	-1.41	-0.12	-5.21	5.26	-1.67	-0.60	0.25	6.21	-1.42	-3.16	0.54	0.11	-9.12	-10.57	1.06	-1.54	-2.17	**-23.5**
1413	396	1,3,7,11,17,18,20,23,26,31,34,38,40,42,49,53,54	-4.38	-0.38	-11.87	-0.81	6.72	-1.46	-3.34	9.77	3.00	-4.98	-0.33	0.11	-12.57	-10.57	1.06	2.28	4.21	**-23.5**
1414	4816	2,4,7,9,10,16,18,21,27,26,31,34,38,40,42,49,53,54	-4.13	0.66	-11.27	-3.43	8.15	-0.60	-3.34	1.65	-0.23	-7.33	0.00	0.11	-10.42	3.26	-3.11	2.28	4.21	**-23.5**
1415	961	1,3,7,9,10,15,23,27,28,34,36,39,44,55	-3.70	-0.90	0.24	-5.90	0.08	-3.18	-5.49	1.40	-0.53	9.46	-2.36	-1.80	-3.21	-4.97	1.06	-1.54	-2.17	**-23.5**
1416	4117	2,4,7,11,13,16,20,23,27,28,34,38,40,42,47,50,54	-4.51	-0.64	-12.35	0.12	9.58	-0.60	-3.34	7.28	3.91	-2.12	-0.86	-1.80	-13.42	-4.31	-3.11	-1.54	4.21	**-23.5**
1417	4459	2,4,7,9,10,13,17,18,20,23,27,28,31,33,37,42,46,48,51	-0.61	0.14	-3.19	5.62	-4.55	-1.46	0.25	0.15	-2.98	-3.04	0.75	2.02	-5.77	-3.98	-3.11	-1.54	-2.17	**-23.5**
1418	1707	1,6,10,16,18,21,27,26,31,34,38,40,42,47,50,54	-4.07	-0.12	-11.23	-3.46	7.84	1.97	-3.34	-4.84	1.76	-6.51	-0.10	-1.80	-10.47	1.95	2.45	2.28	4.21	**-23.5**
1419	1757	1,6,10,16,18,21,28,34,36,39,44,55	-3.92	-1.93	-0.46	-3.31	1.41	-1.46	-4.77	-6.45	-2.09	6.13	-1.66	-1.80	-3.82	1.95	2.45	-1.54	-2.17	**-23.5**
1420	4959	2,4,7,9,10,16,20,23,27,28,34,38,41,44,55	-3.03	-1.67	-7.10	-3.21	8.36	-3.18	-4.77	1.62	1.81	-2.29	-0.49	-1.80	-9.53	2.28	-3.11	-1.54	4.21	**-23.4**
1421	1207	1,3,7,9,10,16,20,23,27,28,34,38,43,47,49,53,54	-4.49	-0.90	-13.00	-2.00	8.98	-1.46	-4.77	4.81	0.50	-2.43	-0.74	0.11	-14.03	2.28	1.06	-1.54	4.21	**-23.4**
1422	2987	2,4,3,6,10,16,18,21,28,31,33,37,42,46,48,51	-0.80	-0.38	-2.31	4.71	-3.09	0.25	0.25	-7.42	-5.47	-6.37	1.25	2.02	-3.95	1.95	-0.33	-1.54	-2.17	**-23.4**
1423	2445	1,6,9,11,17,21,27,26,31,34,38,41,44,55	-2.64	-1.15	-4.71	-3.16	6.04	-0.60	-2.62	-0.59	1.84	-7.25	0.50	-1.80	-5.29	-10.90	2.45	2.28	4.21	**-23.4**
1424	4938	2,4,7,9,10,16,20,23,27,28,34,35,37,40,43,47,46,48,52,53,54	-1.51	-0.12	-5.86	3.99	1.38	-1.46	-1.91	0.85	-1.29	-3.10	0.40	0.11	-10.31	2.28	-3.11	-1.54	-2.17	**-23.4**
1425	2424	1,6,9,11,17,21,27,26,31,34,35,37,40,43,47,46,48,52,53,54	-1.11	0.40	-3.47	4.04	-0.95	1.11	0.25	-1.35	-1.25	-8.06	1.39	0.11	-6.07	-10.90	2.45	2.28	-2.17	**-23.3**
1426	1895	1,6,8,14,30,33,37,42,47,50,54	-0.60	-2.71	3.58	-1.30	2.44	0.25	3.11	-6.15	-12.59	1.46	0.39	0.11	0.21	-10.24	2.45	-1.54	-2.17	**-23.3**
1427	1467	1,6,10,13,17,21,27,26,31,34,36,39,44,55	-3.44	-0.90	0.28	-3.24	-0.85	-1.46	-4.06	-6.45	-0.68	4.81	-1.31	-1.80	-2.46	-4.31	2.45	2.28	-2.17	**-23.3**
1428	82	1,3,7,11,13,15,23,26,33,37,40,43,47,46,48,52,53,54	-1.52	-0.38	-3.33	1.55	-2.62	-0.60	-0.47	6.50	-0.92	-5.38	0.63	0.11	-6.46	-11.56	1.06	2.28	-2.17	**-23.3**
1429	368	1,3,7,11,13,16,20,23,27,28,34,38,43,50,54	-4.87	-1.41	-12.56	-0.67	9.09	-1.46	-3.34	7.68	3.91	-2.46	-0.88	-1.80	-13.92	-4.31	1.06	-1.54	4.21	**-23.3**
1430	1569	1,6,10,15,23,26,33,37,40,43,47,46,48,51	-0.61	-1.15	-1.28	1.61	-5.95	1.11	-1.19	-3.97	-2.83	-5.00	0.89	2.02	-3.15	-6.29	2.45	2.28	-2.17	**-23.3**

Table F-3: Weighted, Sorted Z-scores for All Routes

		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
1431	4301	2,4,7,11,17,21,27,26,31,34,38,41,44,55	-2.90	-1.15	-4.83	-2.86	6.49	-1.46	-1.91	3.81	2.16	-7.30	0.35	-1.80	-5.59	-9.58	-3.11	2.28	4.21	**-23.2**
1432	549	1,3,7,11,17,21,27,26,31,34,38,43,47,49,53,54	-4.36	-0.38	-10.73	-1.65	7.11	0.25	-1.91	7.01	0.85	-7.45	0.10	0.11	-10.10	-9.58	1.06	2.28	4.21	**-23.2**
1433	4280	2,4,7,11,17,21,27,26,31,34,35,37,40,43,47,46,48,52,53,54	-1.37	0.40	-3.59	4.34	-0.50	0.25	0.96	3.05	-0.94	-8.11	1.24	0.11	-6.38	-9.58	-3.11	2.28	-2.17	**-23.1**
1434	4720	2,4,7,9,10,15,23,27,28,34,38,40,42,46,48,52,53,54	-1.77	-0.38	-4.59	-0.33	3.37	-2.32	-1.91	2.61	-0.92	-3.22	0.12	0.11	-8.44	-4.97	-3.11	-1.54	4.21	**-23.1**
1435	660	1,3,7,9,10,13,17,18,20,23,26,31,34,35,37,42,46,48,52,53,54	-1.43	0.66	-5.38	3.32	-1.34	-2.32	-1.19	1.25	0.13	-5.39	0.78	0.11	-9.47	-3.98	1.06	2.28	-2.17	**-23.1**
1436	227	1,3,7,11,13,16,18,21,27,26,33,37,40,41,44,55	-2.52	-0.64	-4.54	-2.96	2.33	0.25	-1.91	2.74	-0.34	-7.30	0.46	-1.80	-4.64	-3.32	1.06	2.28	-2.17	**-23.0**
1437	3484	2,4,3,6,9,11,13,16,20,23,27,28,31,33,37,40,43,47,46,48,52,53,54	-1.06	0.92	-5.10	6.33	0.07	-1.46	-1.19	1.01	-1.73	-3.05	0.70	0.11	-8.87	-5.63	-0.33	-1.54	-2.17	**-23.0**
1438	3460	2,4,3,6,9,11,13,16,20,23,26,31,34,38,40,42,49,53,54	-4.04	0.66	-11.77	0.26	8.46	-2.32	-4.77	4.56	2.68	-4.87	-0.17	0.11	-12.32	-5.63	-0.33	2.28	4.21	**-23.0**
1439	2134	1,6,9,11,13,16,18,21,27,26,33,37,42,46,48,52,53,54	-1.48	-0.38	-3.85	3.74	-1.51	-0.60	0.25	-1.35	-2.46	-8.15	1.35	0.11	-6.51	-4.64	2.45	2.28	-2.17	**-22.9**
1440	2009	1,6,9,11,13,15,23,27,28,34,35,37,42,46,48,51	-0.73	-0.64	-1.02	3.37	-2.92	-0.60	-1.19	0.98	-1.94	-3.53	0.74	2.02	-3.33	-12.87	2.45	-1.54	-2.17	**-22.9**
1441	4914	2,4,7,9,10,16,20,23,26,33,37,40,43,47,46,48,52,53,54	-1.53	-0.64	-5.58	3.75	-1.44	-1.46	-1.19	0.85	-1.08	-5.06	0.68	0.11	-9.61	2.28	-3.11	2.28	-2.17	**-22.9**
1442	731	1,3,7,9,10,13,17,18,20,23,27,28,34,38,41,44,55	-2.74	-0.64	-6.85	-3.35	6.90	-2.32	-4.06	2.02	1.81	-2.32	-0.41	-1.80	-8.91	-3.98	1.06	-1.54	4.21	**-22.9**
1443	2297	1,6,9,11,17,18,20,23,26,31,34,38,41,44,55	-2.66	-1.15	-5.84	-1.92	5.87	-2.32	-4.06	2.17	3.99	-4.59	0.08	-1.80	-7.72	-11.89	2.45	2.28	4.21	**-22.9**
1444	834	1,3,7,9,10,13,17,21,27,26,33,37,40,43,47,46,48,52,53,54	-1.22	0.40	-4.20	2.37	-2.74	1.11	0.96	-1.51	-3.23	-7.75	1.18	0.11	-6.56	-2.99	1.06	2.28	-2.17	**-22.9**
1445	1186	1,3,7,9,10,16,20,23,27,28,34,35,37,42,46,48,52,53,54	-1.83	-0.90	-6.07	3.26	0.92	-2.32	-1.91	1.25	-1.29	-3.32	0.40	0.11	-10.80	2.28	1.06	-1.54	-2.17	**-22.9**
1446	710	1,3,7,9,10,13,17,18,20,23,27,28,34,35,37,40,43,47,46,48,52,53,54	-1.21	0.92	-5.61	3.85	-0.09	-0.60	-1.19	1.25	-1.29	-3.12	0.48	0.11	-9.69	-3.98	1.06	-1.54	-2.17	**-22.8**
1447	2276	1,6,9,11,17,18,20,23,26,31,34,35,37,40,43,47,46,48,52,53,54	-1.13	0.40	-4.60	5.28	-1.12	-0.60	-1.19	1.41	0.89	-5.40	0.97	0.11	-8.50	-11.89	2.45	2.28	-2.17	**-22.8**
1448	4691	2,4,7,9,10,15,23,27,28,31,33,37,40,43,47,46,48,51	-0.43	0.40	-1.49	2.04	-4.48	0.25	-0.47	0.43	-3.91	-2.84	0.54	2.02	-3.08	-4.97	-3.11	-1.54	-2.17	**-22.8**
1449	1319	1,6,10,13,17,18,20,23,26,31,34,36,39,44,55	-3.45	-0.90	-0.85	-2.01	-1.02	-3.18	-5.49	-3.69	1.47	7.47	-1.73	-1.80	-4.89	-5.30	2.45	2.28	-2.17	**-22.8**
1450	71	1,3,7,11,13,15,23,26,31,34,38,40,42,47,50,54	-4.26	0.14	-10.16	-4.13	6.93	0.25	-3.34	7.97	4.40	-4.22	-0.68	-1.80	-9.89	-11.56	1.06	2.28	4.21	**-22.8**
1451	2628	2,4,3,6,10,13,17,18,20,23,27,28,34,38,40,42,46,48,52,53,54	-1.46	0.14	-6.03	4.17	3.57	-2.32	-1.91	-2.48	-0.34	-3.14	0.47	0.11	-10.61	-5.30	-0.33	-1.54	4.21	**-22.8**
1452	3990	2,4,7,11,13,16,18,21,27,26,33,37,42,46,48,52,53,54	-1.73	-0.38	-3.97	4.03	-1.06	-1.46	0.96	3.05	-2.15	-8.21	1.20	0.11	-6.82	-3.32	-3.11	2.28	-2.17	**-22.8**
1453	2323	1,6,9,11,17,18,20,23,27,28,31,33,37,42,46,48,51	-0.64	-0.90	-2.62	6.84	-4.79	-0.60	0.25	0.70	-2.22	-3.28	0.94	2.02	-5.29	-11.89	2.45	-1.54	-2.17	**-22.7**
1454	3865	2,4,7,11,13,15,23,27,28,34,35,37,42,46,48,51	-0.99	-0.64	-1.14	3.67	-2.47	-1.46	-0.47	5.39	-1.62	-3.58	0.59	2.02	-3.64	-11.56	-3.11	-1.54	-2.17	**-22.7**
1455	2144	1,6,9,11,13,16,18,21,28,31,33,37,40,43,47,46,48,52,53,54	-1.30	0.40	-4.11	4.27	-0.26	1.11	0.25	-1.35	-3.88	-6.49	1.13	0.11	-6.69	-4.64	2.45	-1.54	-2.17	**-22.7**
1456	3049	2,4,3,6,10,16,20,23,26,31,34,38,41,44,55	-2.76	-1.15	-6.61	-2.81	7.39	-3.18	-5.49	-3.19	2.88	-4.27	-0.05	-1.80	-8.79	0.96	-0.33	2.28	4.21	**-22.7**
1457	4153	2,4,7,11,17,18,20,23,26,31,34,38,41,44,55	-2.91	-1.15	-5.96	-1.63	6.32	-3.18	-3.34	6.57	4.30	-4.64	-0.07	-1.80	-8.03	-10.57	-3.11	2.28	4.21	**-22.7**
1458	2126	1,6,9,11,13,16,18,21,27,26,31,34,38,43,50,54	-4.24	0.14	-10.69	-2.00	8.02	0.25	-2.62	0.12	2.86	-7.10	0.02	-1.80	-9.96	-4.64	2.45	2.28	4.21	**-22.7**
1459	401	1,3,7,11,17,18,20,23,26,31,34,38,43,47,49,53,54	-4.37	-0.38	-11.86	-0.42	6.94	-1.46	-3.34	9.77	3.00	-4.79	-0.32	0.11	-12.53	-10.57	1.06	2.28	4.21	**-22.7**
1460	4821	2,4,7,9,10,16,18,21,27,26,31,34,38,43,47,49,53,54	-4.12	0.66	-11.25	-3.03	8.36	-0.60	-3.34	1.65	-0.23	-7.13	0.00	0.11	-10.38	3.26	-3.11	2.28	4.21	**-22.6**
1461	528	1,3,7,11,17,21,27,26,31,34,35,37,42,46,48,52,53,54	-1.70	-0.38	-3.79	3.60	-0.96	-0.60	0.96	3.45	-0.94	-8.34	1.24	0.11	-6.86	-9.58	1.06	2.28	-2.17	**-22.6**
1462	3028	2,4,3,6,10,16,20,23,26,31,34,35,37,40,43,47,46,48,52,53,54	-1.23	0.40	-5.36	4.39	0.40	-1.46	-2.62	-3.95	-0.22	-5.08	0.84	0.11	-9.57	0.96	-0.33	2.28	-2.17	**-22.6**
1463	4132	2,4,7,11,17,18,20,23,26,31,34,35,37,40,43,47,46,48,52,53,54	-1.38	0.40	-4.72	5.58	-0.67	-1.46	-0.47	5.81	1.21	-5.45	0.82	0.11	-8.81	-10.57	-3.11	2.28	-2.17	**-22.6**
1464	1845	1,6,10,16,20,23,27,28,34,36,39,44,55	-3.86	-2.45	-1.54	-2.07	1.24	-3.18	-6.21	-3.69	0.05	9.54	-2.11	-1.80	-6.22	0.96	2.45	-1.54	-2.17	**-22.6**
1465	2860	2,4,3,6,10,15,23,27,28,34,36,39,41,43,50,54	-0.87	0.40	-2.68	-4.07	0.90	-3.18	-2.62	-3.09	0.15	9.72	-2.14	-1.80	-2.97	-6.29	-0.33	-1.54	-2.17	**-22.6**
1466	1505	1,6,10,13,17,21,28,34,35,37,40,43,47,46,48,51	-0.69	-0.64	-2.07	4.59	-2.82	2.82	0.25	-7.02	-4.27	-6.45	1.27	2.02	-3.98	-4.31	2.45	-1.54	-2.17	**-22.6**
1467	3075	2,4,3,6,10,16,20,23,27,28,31,33,37,42,46,48,51	-0.74	-0.90	-3.39	5.95	-3.26	-1.46	-1.19	-4.66	-3.33	-2.96	0.81	2.02	-6.36	0.96	-0.33	-1.54	-2.17	**-22.5**
1468	4179	2,4,7,11,17,18,20,23,27,28,31,33,37,42,46,48,51	-0.89	-0.90	-2.74	7.14	-4.34	-1.46	0.96	5.10	-1.90	-3.33	0.79	2.02	-5.60	-10.57	-3.11	-1.54	-2.17	**-22.5**
1469	1113	1,3,7,9,10,16,18,21,28,34,38,40,42,47,50,54	-4.43	-0.12	-11.78	-3.37	9.08	1.97	-2.62	-0.04	0.68	-5.27	-0.48	-1.80	-11.34	3.26	1.06	-1.54	4.21	**-22.5**
1470	4000	2,4,7,11,13,16,18,21,28,31,33,37,40,43,47,46,48,52,53,54	-1.56	0.40	-4.23	4.57	0.19	0.25	0.96	3.05	-3.56	-6.54	0.98	0.11	-7.00	-3.32	-3.11	-1.54	-2.17	**-22.5**
1471	3982	2,4,7,11,13,16,18,21,27,26,31,34,38,43,50,54	-4.50	0.14	-10.81	-1.70	8.47	-0.60	-1.91	4.52	3.18	-7.16	-0.13	-1.80	-10.27	-3.32	-3.11	2.28	4.21	**-22.5**
1472	2599	2,4,3,6,10,13,17,18,20,23,27,28,31,33,37,40,43,47,46,48,51	-0.11	0.92	-2.93	6.55	-4.27	0.25	-0.47	-4.66	-3.33	-2.76	0.89	2.02	-5.25	-5.30	-0.33	-1.54	-2.17	**-22.5**
1473	1985	1,6,9,11,13,15,23,26,33,37,42,46,48,51	-0.75	-1.15	-0.74	3.13	-5.74	-0.60	-0.47	0.98	-1.73	-5.49	1.03	2.02	-2.63	-12.87	2.45	2.28	-2.17	**-22.5**
1474	3219	2,4,3,6,9,11,13,15,23,26,31,34,36,39,44,55	-3.24	0.40	1.49	-3.24	-0.23	-4.03	-5.49	1.16	1.65	7.21	-1.79	-1.80	-1.47	-12.87	-0.33	2.28	-2.17	**-22.5**
1475	913	1,3,7,9,10,15,23,26,31,34,38,41,44,55	-2.78	-0.64	-4.92	-7.46	5.72	-2.32	-4.77	2.30	2.30	-4.38	-0.32	-1.80	-6.00	-4.97	1.06	2.28	4.21	**-22.5**
1476	4726	2,4,7,9,10,15,23,27,28,34,38,43,47,46,48,52,53,54	-1.77	-0.64	-4.58	0.06	3.59	-2.32	-1.91	2.61	-0.92	-3.02	0.13	0.11	-8.41	-4.97	-3.11	-1.54	4.21	**-22.5**
1477	1866	1,6,8,14,30,31,34,35,37,42,49,53,54	-0.54	-2.45	3.67	-1.45	4.09	-1.46	1.68	-4.07	-13.71	0.59	0.63	2.02	0.07	-10.24	2.45	-1.54	-2.17	**-22.4**
1478	1162	1,3,7,9,10,16,20,23,26,33,37,42,46,48,52,53,54	-1.86	-1.41	-5.79	3.01	-1.90	-2.32	-1.19	1.25	-1.08	-5.29	0.68	0.11	-10.09	2.28	1.06	2.28	-2.17	**-22.4**
1479	4903	2,4,7,9,10,16,20,23,26,31,34,38,40,42,47,50,54	-4.26	-0.12	-12.42	-1.93	8.12	-0.60	-4.06	2.33	4.24	-3.90	-0.63	-1.80	-13.04	2.28	-3.11	2.28	4.21	**-22.4**
1480	892	1,3,7,9,10,15,23,26,31,34,35,37,40,43,47,46,48,52,53,54	-1.25	0.92	-3.67	-0.26	-1.26	-0.60	-1.91	1.54	-0.80	-5.19	0.57	0.11	-6.78	-4.97	1.06	2.28	-2.17	**-22.4**
1481	1037	1,3,7,9,10,16,18,21,27,26,31,34,35,37,40,41,44,55	-2.25	0.40	-4.89	-4.77	3.68	0.25	-3.34	-2.22	-0.21	-7.11	0.40	-1.80	-4.96	3.26	1.06	2.28	-2.17	**-22.4**
1482	823	1,3,7,9,10,13,17,21,27,26,31,34,38,40,42,47,50,54	-3.95	0.92	-11.04	-3.31	6.82	1.97	-1.91	-0.04	2.10	-6.59	-0.13	-1.80	-9.99	-2.99	1.06	2.28	4.21	**-22.4**
1483	686	1,3,7,9,10,13,17,18,20,23,26,33,37,40,43,47,46,48,52,53,54	-1.23	0.40	-5.33	3.61	-2.91	-0.60	-0.47	1.25	-1.08	-5.09	0.77	0.11	-8.99	-3.98	1.06	2.28	-2.17	**-22.4**
1484	873	1,3,7,9,10,13,17,21,28,34,36,39,44,55	-3.80	-0.90	-0.27	-3.15	0.39	-1.46	-3.34	-1.64	-1.75	6.04	-1.70	-1.80	-3.34	-2.99	1.06	-1.54	-2.17	**-22.4**
1485	2810	2,4,3,6,10,15,23,26,31,34,38,40,42,46,48,52,53,54	-1.50	0.14	-4.10	0.06	2.39	-2.32	-2.62	-2.19	0.15	-5.20	0.56	0.11	-7.70	-6.29	-0.33	2.28	4.21	**-22.3**

Table F-3: Weighted, Sorted Z-scores for All Routes

		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
1486	3748	2,4,3,6,9,11,17,21,28,34,38,40,42,46,48,52,53,54	-1.71	-0.38	-4.45	4.45	3.95	-0.60	0.25	-0.28	-1.38	-6.84	0.99	0.11	-7.86	-10.90	-0.33	-1.54	4.21	**-22.3**
1487	939	1,3,7,9,10,15,23,27,28,31,33,37,42,46,48,51	-0.76	-0.38	-1.70	1.30	-4.93	-0.60	-0.47	0.83	-3.91	-3.07	0.54	2.02	-3.57	-4.97	1.06	-1.54	-2.17	**-22.3**
1488	3841	2,4,7,11,13,15,23,26,33,37,42,46,48,51	-1.01	-1.15	-0.86	3.43	-5.29	-1.46	0.25	5.39	-1.41	-5.54	0.87	2.02	-2.94	-11.56	-3.11	2.28	-2.17	**-22.3**
1489	3427	2,4,3,6,9,11,13,16,18,21,28,34,38,41,44,55	-2.74	-0.12	-5.22	-2.00	9.02	-1.46	-3.34	-0.99	0.43	-5.91	0.23	-1.80	-6.08	-4.64	-0.33	-1.54	4.21	**-22.3**
1490	1735	1,6,10,16,18,21,28,31,33,37,42,46,48,51	-0.97	-1.41	-2.40	3.89	-3.60	1.11	0.25	-7.02	-5.47	-6.40	1.24	2.02	-4.17	1.95	2.45	-1.54	-2.17	**-22.3**
1491	3709	2,4,3,6,9,11,17,21,27,26,33,37,42,46,48,51	-0.55	-0.38	-1.08	6.29	-5.14	0.25	1.68	-2.46	-2.95	-8.12	1.63	2.02	-2.33	-10.90	-0.33	2.28	-2.17	**-22.3**
1492	3585	2,4,3,6,9,11,17,18,20,23,27,28,34,35,37,42,46,48,51	-0.55	0.14	-2.48	7.77	-2.50	-1.46	-0.47	0.30	-1.01	-3.50	0.93	2.02	-5.46	-11.89	-0.33	-1.54	-2.17	**-22.2**
1493	3406	2,4,3,6,9,11,13,16,18,21,28,34,35,37,40,43,47,46,48,52,53,54	-1.21	1.44	-3.98	5.20	2.03	0.25	-0.47	-1.75	-2.67	-6.71	1.12	0.11	-6.87	-4.64	-0.33	-1.54	-2.17	**-22.2**
1494	1154	1,3,7,9,10,16,20,23,26,31,34,38,43,50,54	-4.62	-0.90	-12.63	-2.72	7.63	-1.46	-4.06	2.72	4.24	-4.24	-0.65	-1.80	-13.54	2.28	1.06	2.28	4.21	**-22.2**
1495	2634	2,4,3,6,10,13,17,18,20,23,27,28,34,38,43,47,46,48,52,53,54	-1.45	-0.12	-6.02	4.57	3.79	-2.32	-1.91	-2.48	-0.34	-2.94	0.48	0.11	-10.57	-5.30	-0.33	-1.54	4.21	**-22.2**
1496	380	1,3,7,11,17,18,20,23,26,31,34,35,37,42,46,48,52,53,54	-1.71	-0.38	-4.92	4.84	-1.13	-2.32	-0.47	6.21	1.21	-5.68	0.82	0.11	-9.29	-10.57	1.06	2.28	-2.17	**-22.1**
1497	3465	2,4,3,6,9,11,13,16,20,23,26,31,34,38,43,47,49,53,54	-4.03	0.66	-11.75	0.65	8.68	-2.32	-4.77	4.56	2.68	-4.68	-0.17	0.11	-12.29	-5.63	-0.33	2.28	4.21	**-22.1**
1498	5000	2,4,7,9,8,14,30,33,37,40,43,50,54	-0.56	-1.93	3.68	-1.45	2.64	-0.60	3.83	-1.74	-12.25	1.10	0.28	0.11	0.53	-8.92	-3.11	-1.54	-2.17	**-22.1**
1499	4800	2,4,7,9,10,16,18,21,27,26,31,34,35,37,42,46,48,52,53,54	-1.46	0.66	-4.32	2.23	0.30	-1.46	-0.47	-1.91	-2.02	-8.02	1.14	0.11	-7.15	3.26	-3.11	2.28	-2.17	**-22.1**
1500	3143	2,4,3,6,8,14,30,33,37,40,43,47,49,53,54	-0.16	-0.90	3.81	-0.33	3.02	-0.60	2.40	-4.47	-14.92	0.92	0.63	2.02	0.78	-10.24	-0.33	-1.54	-2.17	**-22.1**
1501	248	1,3,7,11,13,16,18,21,28,31,33,37,42,46,48,52,53,54	-1.89	-0.38	-4.44	3.83	-0.27	-0.60	0.96	3.45	-3.56	-6.77	0.98	0.11	-7.48	-3.32	1.06	-1.54	-2.17	**-22.0**
1502	3719	2,4,3,6,9,11,17,21,28,31,33,37,40,43,47,46,48,51	-0.37	0.40	-1.34	6.82	-3.89	1.97	1.68	-2.46	-4.37	-6.46	1.41	2.02	-2.50	-10.90	-0.33	-1.54	-2.17	**-22.0**
1503	451	1,3,7,11,17,18,20,23,27,28,34,38,41,44,55	-3.02	-1.67	-6.40	-1.83	7.11	-2.32	-3.34	6.97	2.89	-2.61	-0.37	-1.80	-8.73	-10.57	1.06	-1.54	4.21	**-22.0**
1504	554	1,3,7,11,17,21,27,26,33,37,40,43,47,46,48,52,53,54	-1.50	-0.64	-3.75	3.89	-2.53	1.11	1.68	3.45	-2.15	-8.04	1.22	0.11	-6.38	-9.58	1.06	2.28	-2.17	**-21.9**
1505	4632	2,4,7,9,10,13,17,21,28,34,38,40,42,46,48,52,53,54	-1.87	-0.38	-5.11	2.41	3.69	-0.60	0.25	-0.44	-2.14	-6.63	0.79	0.11	-8.57	-2.99	-3.11	-1.54	4.21	**-21.9**
1506	430	1,3,7,11,17,18,20,23,27,28,34,35,37,40,43,47,46,48,52,53,54	-1.49	-0.12	-5.16	5.37	0.12	-0.60	-0.47	6.21	-0.21	-3.41	0.52	0.11	-9.52	-10.57	1.06	-1.54	-2.17	**-21.9**
1507	4593	2,4,7,9,10,13,17,21,27,26,33,37,42,46,48,51	-0.70	-0.38	-1.74	4.25	-5.40	0.25	1.68	-2.62	-3.71	-7.92	1.43	2.02	-3.04	-2.99	-3.11	2.28	-2.17	**-21.9**
1508	675	1,3,7,9,10,13,17,18,20,23,26,31,34,38,40,42,47,50,54	-3.97	0.92	-12.17	-2.07	6.65	0.25	-3.34	2.72	4.24	-3.93	-0.55	-1.80	-12.42	-3.98	1.06	2.28	4.21	**-21.9**
1509	2232	1,6,9,11,13,16,20,23,27,28,31,33,37,40,43,47,46,48,52,53,54	-1.24	-0.12	-5.19	5.51	-0.43	-0.60	-1.19	1.41	-1.73	-3.08	0.68	0.11	-9.10	-5.63	2.45	-1.54	-2.17	**-21.9**
1510	2208	1,6,9,11,13,16,20,23,26,31,34,38,40,42,49,53,54	-4.21	-0.38	-11.86	-0.57	7.96	-1.46	-4.77	4.96	2.68	-4.90	-0.19	0.11	-12.55	-5.63	2.45	2.28	4.21	**-21.9**
1511	3114	2,4,3,6,8,14,30,31,34,35,37,40,43,50,54	-0.26	-0.90	3.90	-0.82	4.48	-0.60	2.40	-6.55	-11.39	1.08	0.44	0.11	0.57	-10.24	-0.33	-1.54	-2.17	**-21.8**
1512	4469	2,4,7,9,10,13,17,18,20,23,27,28,34,35,37,42,46,48,51	-0.70	0.14	-3.14	5.73	-2.76	-1.46	-0.47	0.15	-1.78	-3.29	0.73	2.02	-6.17	-3.98	-3.11	-1.54	-2.17	**-21.8**
1513	274	1,3,7,11,13,16,18,21,28,34,38,40,42,49,53,54	-4.64	-0.38	-11.34	-1.71	9.37	0.25	-2.62	7.01	-0.56	-6.33	-0.19	0.11	-11.16	-3.32	1.06	-1.54	4.21	**-21.8**
1514	3561	2,4,3,6,9,11,17,18,20,23,26,33,37,42,46,48,51	-0.57	-0.38	-2.21	7.53	-5.31	-1.46	0.25	0.30	-0.81	-5.46	1.21	2.02	-4.76	-11.89	-0.33	2.28	-2.17	**-21.8**
1515	2997	2,4,3,6,10,16,18,21,28,34,35,37,42,46,48,51	-0.88	-0.38	-2.26	4.82	-1.30	0.25	-0.47	-7.42	-4.27	-6.62	1.23	2.02	-4.35	1.95	-0.33	-1.54	-2.17	**-21.7**
1516	2816	2,4,3,6,10,15,23,26,31,34,38,43,47,46,48,52,53,54	-1.49	-0.12	-4.08	0.46	2.61	-2.32	-2.62	-2.19	0.15	-5.01	0.57	0.11	-7.66	-6.29	-0.33	2.28	4.21	**-21.7**
1517	3754	2,4,3,6,9,11,17,21,28,34,38,43,47,46,48,52,53,54	-1.71	-0.64	-4.43	4.85	4.17	-0.60	0.25	-0.28	-1.38	-6.64	1.00	0.11	-7.83	-10.90	-0.33	-1.54	4.21	**-21.7**
1518	1201	1,3,7,9,10,16,20,23,27,28,34,38,40,42,47,50,54	-4.37	-0.64	-12.86	-2.14	8.91	0.25	-4.06	2.72	2.83	-1.86	-0.93	-1.80	-13.75	2.28	1.06	-1.54	4.21	**-21.7**
1519	4088	2,4,7,11,13,16,20,23,27,28,31,33,37,40,43,47,46,48,52,53,54	-1.50	-0.12	-5.31	5.80	0.02	-1.46	-0.47	5.81	-1.42	-3.13	0.53	0.11	-9.41	-4.31	-3.11	-1.54	-2.17	**-21.7**
1520	4064	2,4,7,11,13,16,20,23,26,31,34,38,40,42,49,53,54	-4.47	-0.38	-11.98	-0.27	8.41	-2.32	-4.06	9.37	3.00	-4.96	-0.34	0.11	-12.86	-4.31	-3.11	2.28	4.21	**-21.7**
1521	4603	2,4,7,9,10,13,17,21,28,31,33,37,40,43,47,46,48,51	-0.52	0.40	-2.00	4.78	-4.16	1.97	1.68	-2.62	-5.13	-6.25	1.21	2.02	-3.21	-2.99	-3.11	-1.54	-2.17	**-21.7**
1522	1376	1,6,10,13,17,18,20,23,27,28,34,38,40,42,46,48,52,53,54	-1.63	-0.90	-6.12	3.35	3.07	-1.46	-1.91	-2.08	-0.34	-3.17	0.46	0.11	-10.83	-5.30	2.45	-1.54	4.21	**-21.6**
1523	3444	2,4,3,6,9,11,13,16,20,23,26,31,34,35,37,42,46,48,52,53,54	-1.37	0.66	-4.82	5.91	0.62	-3.18	-1.91	1.01	0.89	-5.57	0.97	0.11	-9.05	-5.63	-0.33	2.28	-2.17	**-21.6**
1524	2707	2,4,3,6,10,13,17,21,27,26,31,34,35,37,42,46,48,51	-0.41	0.66	-1.52	4.89	-3.56	0.25	0.25	-7.42	-2.85	-7.94	1.59	2.02	-3.00	-4.31	-0.33	2.28	-2.17	**-21.6**
1525	1797	1,6,10,16,20,23,26,31,34,38,41,44,55	-2.93	-2.19	-6.70	-3.64	6.89	-2.32	-5.49	-2.79	2.88	-4.30	-0.07	-1.80	-9.01	0.96	2.45	2.28	4.21	**-21.6**
1526	3372	2,4,3,6,9,11,13,16,18,21,27,26,31,34,38,40,42,49,53,54	-3.77	1.70	-10.46	-0.98	8.63	-0.60	-3.34	1.80	0.54	-7.53	0.27	0.11	-9.38	-4.64	-0.33	2.28	4.21	**-21.5**
1527	1776	1,6,10,16,20,23,26,31,34,35,37,40,43,47,46,48,52,53,54	-1.41	-0.64	-5.45	3.56	-0.10	-0.60	-2.62	-3.55	-0.22	-5.11	0.82	0.11	-9.79	0.96	2.45	2.28	-2.17	**-21.5**
1528	1608	1,6,10,15,23,27,28,34,36,39,41,43,50,54	-1.04	-0.64	-2.77	-4.89	0.39	-2.32	-2.62	-2.69	0.15	9.69	-2.16	-1.80	-3.19	-6.29	2.45	-1.54	-2.17	**-21.4**
1529	543	1,3,7,11,17,21,27,26,31,34,38,40,42,47,50,54	-4.23	-0.12	-10.59	-1.79	7.03	1.97	-1.19	4.92	3.18	-6.88	-0.09	-1.80	-9.82	-9.58	1.06	2.28	4.21	**-21.4**
1530	406	1,3,7,11,17,18,20,23,26,33,37,40,43,47,46,48,52,53,54	-1.51	-0.64	-4.88	5.13	-2.70	-0.60	0.25	6.21	0.00	-5.38	0.80	0.11	-8.81	-10.57	1.06	2.28	-2.17	**-21.4**
1531	2772	2,4,3,6,10,13,17,21,28,34,36,39,41,43,50,54	-0.96	0.40	-3.19	-1.33	1.22	-1.46	-0.47	-6.14	-1.07	6.30	-1.48	-1.80	-3.10	-4.31	-0.33	-1.54	-2.17	**-21.4**
1532	593	1,3,7,11,17,21,28,34,36,39,44,55	-4.08	-1.93	0.18	-1.64	0.60	-1.46	-2.62	3.31	-0.67	5.75	-1.66	-1.80	-3.17	-9.58	1.06	-1.54	-2.17	**-21.4**
1533	3515	2,4,3,6,9,11,13,16,20,23,27,28,34,38,41,44,55	-2.68	-0.64	-6.30	-0.76	8.85	-3.18	-4.77	1.77	2.57	-2.49	-0.22	-1.80	-8.49	-5.63	-0.33	-1.54	4.21	**-21.4**
1534	4826	2,4,7,9,10,16,18,21,27,26,33,37,40,43,47,46,48,52,53,54	-1.26	0.40	-4.27	2.51	-1.27	0.25	0.25	-1.91	-3.23	-7.72	1.13	0.11	-6.66	3.26	-3.11	2.28	-2.17	**-21.4**
1535	1823	1,6,10,16,20,23,27,28,31,33,37,42,46,48,51	-0.91	-1.93	-3.48	5.12	-3.77	-0.60	-1.19	-4.26	-3.33	-2.99	0.79	2.02	-6.58	0.96	2.45	-1.54	-2.17	**-21.4**
1536	4651	2,4,7,9,10,15,23,26,31,34,35,37,42,46,48,51	-0.74	0.14	-1.21	1.62	-3.93	-1.46	-1.19	0.43	-1.28	-5.36	0.82	2.02	-3.26	-4.97	-3.11	2.28	-2.17	**-21.4**
1537	4445	2,4,7,9,10,13,17,18,20,23,26,33,37,42,46,48,51	-0.72	-0.38	-2.87	5.49	-5.58	-1.46	0.25	0.15	-1.57	-5.26	1.01	2.02	-5.47	-3.98	-3.11	2.28	-2.17	**-21.4**
1538	1347	1,6,10,13,17,18,20,23,27,28,31,33,37,40,43,47,46,48,51	-0.29	-0.12	-3.02	5.72	-4.78	1.11	-0.47	-4.26	-3.33	-2.79	0.88	2.02	-5.47	-5.30	2.45	-1.54	-2.17	**-21.4**
1539	1967	1,6,9,11,13,15,23,26,31,34,36,39,44,55	-3.41	-0.64	1.40	-4.07	-0.73	-3.18	-5.49	1.56	1.65	7.18	-1.80	-1.80	-1.69	-12.87	2.45	2.28	-2.17	**-21.3**
1540	3494	2,4,3,6,9,11,13,16,20,23,27,28,34,35,37,40,43,47,46,48,52,53,54	-1.15	0.92	-5.05	6.44	1.86	-1.46	-1.91	1.01	-0.52	-3.30	0.67	0.11	-9.27	-5.63	-0.33	-1.54	-2.17	**-21.3**

Table F-3: Weighted, Sorted Z-scores for All Routes

Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
1541	4638	2,4,7,9,10,13,17,21,28,34,38,43,47,46,48,52,53,54	-1.86	-0.64	-5.09	2.81	3.90	-0.60	0.25	-0.44	-2.14	-6.44	0.79	0.11	-8.53	-2.99	-3.11	-1.54	4.21	**-21.3**
1542	3276	2,4,3,6,9,11,13,15,23,27,28,34,38,40,42,46,48,52,53,54	-1.41	0.40	-3.79	2.11	3.85	-2.32	-1.91	2.76	-0.15	-3.43	0.40	0.11	-7.40	-12.87	-0.33	-1.54	4.21	**-21.3**
1543	5003	2,4,7,9,8,14,30,33,37,42,47,50,54	-0.53	-2.19	3.70	-1.00	2.89	-0.60	3.83	-1.74	-12.25	1.41	0.30	0.11	0.58	-8.92	-3.11	-1.54	-2.17	**-21.3**
1544	2961	2,4,3,6,10,16,18,21,27,26,31,34,38,41,44,55	-2.49	-0.12	-5.30	-4.05	7.56	-1.46	-4.06	-5.95	0.74	-6.93	0.39	-1.80	-5.84	1.95	-0.33	2.28	4.21	**-21.2**
1545	1558	1,6,10,15,23,26,31,34,38,40,42,46,48,52,53,54	-1.67	-0.90	-4.19	-0.77	1.89	-1.46	-2.62	-1.79	0.15	-5.23	0.55	0.11	-7.92	-6.29	2.45	2.28	4.21	**-21.2**
1546	336	1,3,7,11,13,16,20,23,27,28,31,33,37,42,46,48,52,53,54	-1.82	-0.90	-5.52	5.06	-0.44	-2.32	-0.47	6.21	-1.42	-3.36	0.53	0.11	-9.89	-4.31	1.06	-1.54	-2.17	**-21.2**
1547	2496	1,6,9,11,17,21,28,34,38,40,42,46,48,52,53,54	-1.89	-1.41	-4.54	3.63	3.44	0.25	0.25	0.12	-1.38	-6.87	0.98	0.11	-8.09	-10.90	2.45	-1.54	4.21	**-21.2**
1548	851	1,3,7,9,10,13,17,21,28,31,33,37,42,46,48,51	-0.85	-0.38	-2.21	4.04	-4.61	1.11	1.68	-2.22	-5.13	-6.48	1.21	2.02	-3.70	-2.99	1.06	-1.54	-2.17	**-21.2**
1549	3823	2,4,7,11,13,15,23,26,31,34,36,39,44,55	-3.67	-0.64	1.28	-3.77	-0.28	-4.03	-4.77	5.96	1.97	7.13	-1.95	-1.80	-2.00	-11.56	-3.11	2.28	-2.17	**-21.1**
1550	2175	1,6,9,11,13,16,18,21,28,34,38,41,44,55	-2.91	-1.15	-5.31	-2.82	8.52	-0.60	-3.34	-0.59	0.43	-5.93	0.21	-1.80	-6.31	-4.64	2.45	-1.54	4.21	**-21.1**
1551	4701	2,4,7,9,10,15,23,27,28,34,35,37,40,43,47,46,48,51	-0.51	0.40	-1.44	2.15	-2.69	0.25	-1.19	0.43	-2.70	-3.09	0.52	2.02	-3.48	-4.97	-3.11	-1.54	-2.17	**-21.1**
1552	2457	1,6,9,11,17,21,27,26,33,37,42,46,48,51	-0.73	-1.41	-1.17	5.47	-5.64	1.11	1.68	-2.06	-2.95	-8.15	1.62	2.02	-2.55	-10.90	2.45	2.28	-2.17	**-21.1**
1553	3691	2,4,3,6,9,11,17,21,27,26,31,34,36,39,44,55	-3.21	0.14	1.06	-0.91	-0.13	-2.32	-3.34	-1.89	0.43	4.55	-1.19	-1.80	-1.39	-10.90	-0.33	2.28	-2.17	**-21.1**
1554	2940	2,4,3,6,10,16,18,21,27,26,31,34,35,37,40,43,47,46,48,52,53,54	-0.97	1.44	-4.05	3.15	0.58	0.25	-1.19	-6.71	-2.36	-7.74	1.28	0.11	-6.63	1.95	-0.33	2.28	-2.17	**-21.1**
1555	2559	2,4,3,6,10,13,17,18,20,23,26,31,34,35,37,42,46,48,51	-0.42	0.66	-2.65	6.12	-3.73	-1.46	-1.19	-4.66	-0.71	-5.28	1.17	2.02	-5.43	-5.30	-0.33	2.28	-2.17	**-21.1**
1556	2333	1,6,9,11,17,18,20,23,27,28,34,35,37,42,46,48,51	-0.72	-0.90	-2.57	6.95	-3.00	-0.60	-0.47	0.70	-1.01	-3.53	0.92	2.02	-5.69	-11.89	2.45	-1.54	-2.17	**-21.1**
1557	2154	1,6,9,11,13,16,18,21,28,34,35,37,40,43,47,46,48,52,53,54	-1.39	0.40	-4.07	4.38	1.53	1.11	-0.47	-1.35	-2.67	-6.74	1.10	0.11	-7.09	-4.64	2.45	-1.54	-2.17	**-21.1**
1558	3247	2,4,3,6,9,11,13,15,23,27,28,31,33,37,40,43,47,46,48,51	-0.07	1.18	-0.68	4.49	-3.99	0.25	-0.47	0.58	-3.14	-3.05	0.82	2.02	-2.04	-12.87	-0.33	-1.54	-2.17	**-21.0**
1559	1382	1,6,10,13,17,18,20,23,27,28,34,38,43,47,46,48,52,53,54	-1.63	-1.15	-6.11	3.75	3.29	-1.46	-1.91	-2.08	-0.34	-2.97	0.46	0.11	-10.80	-5.30	2.45	-1.54	4.21	**-21.0**
1560	4352	2,4,7,11,17,21,28,34,38,40,42,46,48,52,53,54	-2.15	-1.41	-4.66	3.92	3.89	-0.60	0.96	4.52	-1.06	-6.92	0.83	0.11	-8.40	-9.58	-3.11	-1.54	4.21	**-21.0**
1561	2213	1,6,9,11,13,16,20,23,26,31,34,38,43,47,49,53,54	-4.21	-0.38	-11.84	-0.17	8.18	-1.46	-4.77	4.96	2.68	-4.71	-0.18	0.11	-12.51	-5.63	2.45	2.28	4.21	**-21.0**
1562	1891	1,6,8,14,30,33,37,40,43,47,49,53,54	-0.33	-1.93	3.72	-1.16	2.52	0.25	2.40	-4.07	-14.92	0.89	0.61	2.02	0.55	-10.24	2.45	-1.54	-2.17	**-21.0**
1563	3117	2,4,3,6,8,14,30,31,34,35,37,42,47,50,54	-0.23	-1.15	3.92	-0.36	4.73	-0.60	2.40	-6.55	-11.39	1.39	0.46	0.11	0.61	-10.24	-0.33	-1.54	-2.17	**-21.0**
1564	4031	2,4,7,11,13,16,18,21,28,34,38,41,44,55	-3.17	-1.15	-5.43	-2.53	8.97	-1.46	-2.62	3.81	0.74	-5.99	0.06	-1.80	-6.62	-3.32	-3.11	-1.54	4.21	**-20.9**
1565	4313	2,4,7,11,17,21,27,26,33,37,42,46,48,51	-0.98	-1.41	-1.29	5.76	-5.20	0.25	2.40	2.34	-2.64	-8.21	1.47	2.02	-2.86	-9.58	-3.11	2.28	-2.17	**-20.9**
1566	395	1,3,7,11,17,18,20,23,26,31,34,38,40,42,47,50,54	-4.25	-0.12	-11.72	-0.56	6.86	0.25	-2.62	7.68	5.32	-4.22	-0.51	-1.80	-12.25	-10.57	1.06	2.28	4.21	**-20.9**
1567	362	1,3,7,11,13,16,20,23,27,28,34,38,40,42,49,53,54	-4.58	-0.90	-12.42	-0.48	9.20	-1.46	-4.06	9.77	1.58	-2.92	-0.64	0.11	-13.56	-4.31	1.06	-1.54	4.21	**-20.9**
1568	1074	1,3,7,9,10,16,18,21,27,26,33,37,42,46,48,52,53,54	-1.59	-0.38	-4.48	1.77	-1.73	-0.60	0.25	-1.51	-3.23	-7.95	1.13	0.11	-7.15	3.26	1.06	2.28	-2.17	**-20.9**
1569	279	1,3,7,11,13,16,18,21,28,34,38,43,47,49,53,54	-4.63	-0.38	-11.33	-1.32	9.59	0.25	-2.62	7.01	-0.56	-6.13	-0.19	0.11	-11.12	-3.32	1.06	-1.54	4.21	**-20.9**
1570	4815	2,4,7,9,10,16,18,21,27,26,31,34,38,40,42,47,50,54	-4.00	0.92	-11.11	-3.17	8.29	1.11	-2.62	-0.44	2.10	-6.56	-0.18	-1.80	-10.10	3.26	-3.11	2.28	4.21	**-20.9**
1571	2467	1,6,9,11,17,21,28,31,33,37,40,43,47,46,48,51	-0.55	-0.64	-1.43	6.00	-4.40	2.82	1.68	-2.06	-4.37	-6.49	1.40	2.02	-2.73	-10.90	2.45	-1.54	-2.17	**-20.9**
1572	4865	2,4,7,9,10,16,18,21,28,34,36,39,44,55	-3.84	-0.90	-0.34	-3.01	1.86	-2.32	-4.06	-2.04	-1.75	6.07	-1.75	-1.80	-3.45	3.26	-3.11	-1.54	-2.17	**-20.9**
1573	3470	2,4,3,6,9,11,13,16,20,23,26,33,37,40,43,47,46,48,52,53,54	-1.17	0.40	-4.78	6.20	-0.95	-1.46	-1.19	1.01	-0.32	-5.27	0.95	0.11	-8.57	-5.63	-0.33	2.28	-2.17	**-20.9**
1574	2733	2,4,3,6,10,13,17,21,27,26,33,37,40,43,47,46,48,51	-0.21	0.40	-1.47	5.17	-5.13	1.97	0.96	-7.42	-4.06	-7.64	1.57	2.02	-2.51	-4.31	-0.33	2.28	-2.17	**-20.9**
1575	3085	2,4,3,6,10,16,20,23,27,28,34,35,37,42,46,48,51	-0.82	-0.90	-3.34	6.06	-1.47	-1.46	-1.91	-4.66	-2.12	-3.21	0.78	2.02	-6.76	0.96	-0.33	-1.54	-2.17	**-20.9**
1576	4189	2,4,7,11,17,18,20,23,27,28,34,35,37,42,46,48,51	-0.98	-0.90	-2.69	7.25	-2.55	-1.46	0.25	5.10	-0.70	-3.58	0.76	2.02	-6.00	-10.57	-3.11	-1.54	-2.17	**-20.9**
1577	4010	2,4,7,11,13,16,18,21,28,34,35,37,40,43,47,46,48,52,53,54	-1.64	0.40	-4.19	4.68	1.98	0.25	0.25	3.05	-2.35	-6.80	0.95	0.11	-7.40	-3.32	-3.11	-1.54	-2.17	**-20.9**
1578	2609	2,4,3,6,10,13,17,18,20,23,27,28,34,35,37,40,43,47,46,48,51	-0.20	0.92	-2.88	6.66	-2.48	0.25	-1.19	-4.66	-2.12	-3.01	0.87	2.02	-5.65	-5.30	-0.33	-1.54	-2.17	**-20.8**
1579	4069	2,4,7,11,13,16,20,23,26,31,34,38,43,47,49,53,54	-4.46	-0.38	-11.96	0.13	8.63	-2.32	-4.06	9.37	3.00	-4.76	-0.33	0.11	-12.82	-4.31	-3.11	2.28	4.21	**-20.8**
1580	2856	2,4,3,6,10,15,23,27,28,34,36,39,41,40,42,49,53,54	-0.57	0.40	-2.54	-3.88	1.00	-3.18	-3.34	-1.01	-2.17	9.26	-1.91	0.11	-2.61	-6.29	-0.33	-1.54	-2.17	**-20.8**
1581	4575	2,4,7,9,10,13,17,21,27,26,31,34,36,39,44,55	-3.36	0.14	0.40	-2.95	-0.40	-2.32	-3.34	-2.04	-0.33	4.76	-1.40	-1.80	-2.10	-2.99	-3.11	2.28	-2.17	**-20.7**
1582	4323	2,4,7,11,17,21,28,31,33,37,40,43,47,46,48,51	-0.80	-0.64	-1.55	6.30	-3.95	1.97	2.40	2.34	-4.05	-6.54	1.25	2.02	-3.04	-9.58	-3.11	-1.54	-2.17	**-20.7**
1583	1084	1,3,7,9,10,16,18,21,28,31,33,37,40,43,47,46,48,52,53,54	-1.41	0.40	-4.74	2.31	-0.48	1.11	0.25	-1.51	-4.64	-6.28	0.90	0.11	-7.33	3.26	1.06	-1.54	-2.17	**-20.7**
1584	3282	2,4,3,6,9,11,13,15,23,27,28,34,38,43,47,46,48,52,53,54	-1.41	0.14	-3.77	2.51	4.07	-2.32	-1.91	2.76	-0.15	-3.23	0.40	0.11	-7.37	-12.87	-0.33	-1.54	4.21	**-20.7**
1585	4677	2,4,7,9,10,15,23,26,33,37,40,43,47,46,48,51	-0.53	-0.12	-1.16	1.90	-5.50	0.25	-0.47	0.43	-2.49	-5.06	0.80	2.02	-2.78	-4.97	-3.11	2.28	-2.17	**-20.7**
1586	1862	1,6,8,14,30,31,34,35,37,40,43,50,54	-0.44	-1.93	3.82	-1.64	3.98	0.25	2.40	-6.15	-11.39	1.05	0.43	0.11	0.34	-10.24	2.45	-1.54	-2.17	**-20.7**
1587	1066	1,3,7,9,10,16,18,21,27,26,31,34,38,43,50,54	-4.35	0.14	-11.32	-3.96	7.80	0.25	-2.62	-0.04	2.10	-6.90	-0.20	-1.80	-10.59	3.26	1.06	2.28	4.21	**-20.7**
1588	949	1,3,7,9,10,15,23,27,28,34,35,37,42,46,48,51	-0.84	-0.38	-1.65	1.41	-3.14	-0.60	-1.19	0.83	-2.70	-3.32	0.52	2.02	-3.97	-4.97	1.06	-1.54	-2.17	**-20.6**
1589	2309	1,6,9,11,17,18,20,23,26,33,37,42,46,48,51	-0.74	-1.41	-2.30	6.71	-5.82	-0.60	0.25	0.70	-0.81	-5.49	1.20	2.02	-4.98	-11.89	2.45	2.28	-2.17	**-20.6**
1590	3543	2,4,3,6,9,11,17,18,20,23,26,31,34,36,39,44,55	-3.23	0.14	-0.07	0.33	-0.30	-4.03	-4.77	0.87	2.57	7.21	-1.61	-1.80	-3.82	-11.89	-0.33	2.28	-2.17	**-20.6**
1591	3377	2,4,3,6,9,11,13,16,18,21,27,26,31,34,38,43,47,49,53,54	-3.77	1.70	-10.44	-0.58	8.85	-0.60	-3.34	1.80	0.54	-7.34	0.28	0.11	-9.34	-4.64	-0.33	2.28	4.21	**-20.6**
1592	1745	1,6,10,16,18,21,28,34,35,37,42,46,48,51	-1.06	-1.41	-2.35	4.00	-1.81	1.11	-0.47	-7.02	-4.27	-6.65	1.21	2.02	-4.57	1.95	2.45	-1.54	-2.17	**-20.6**
1593	1564	1,6,10,15,23,26,31,34,38,43,47,46,48,52,53,54	-1.67	-1.15	-4.17	-0.37	2.11	-1.46	-2.62	-1.79	0.15	-5.04	0.55	0.11	-7.89	-6.29	2.45	2.28	4.21	**-20.6**
1594	2502	1,6,9,11,17,21,28,34,38,43,47,46,48,52,53,54	-1.89	-1.67	-4.52	4.02	3.66	0.25	0.25	0.12	-1.38	-6.67	0.98	0.11	-8.05	-10.90	2.45	-1.54	4.21	**-20.6**
1595	285	1,3,7,11,13,16,20,23,26,31,34,35,37,40,41,44,55	-2.59	-0.64	-5.60	-1.61	3.94	-1.46	-4.06	5.50	3.01	-4.74	0.07	-1.80	-7.40	-4.31	1.06	2.28	-2.17	**-20.5**

Table F-3: Weighted, Sorted Z-scores for All Routes

		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
Rank	**Route**	**Segments**	**Total length**	**Heavy angles > 30 degrees**	**Length not along Transmission Line**	**Length not along Roads**	**Length not along Property Lines**	**Roads crossed**	**Streams and rivers crossed**	**Wetland acres in ROW**	**Woodland acres in ROW**	**Cropland acres in ROW**	**Open/Pasture land in ROW**	**Rare species/ Species of concern polygons crossed**	**Visibility rating**	**Residential proximity score**	**Businesses within 300ft**	**Public facilities within 300ft**	**Cultural sites within 1320ft**	**Sum**
1596	2192	1,6,9,11,13,16,20,23,26,31,34,35,37,42,46,48,52,53,54	-1.55	-0.38	-4.91	5.08	0.11	-2.32	-1.91	1.41	0.89	-5.60	0.96	0.11	-9.28	-5.63	2.45	2.28	-2.17	**-20.4**
1597	1455	1,6,10,13,17,21,27,26,31,34,35,37,42,46,48,51	-0.58	-0.38	-1.60	4.06	-4.06	1.11	0.25	-7.02	-2.85	-7.97	1.57	2.02	-3.22	-4.31	2.45	2.28	-2.17	**-20.4**
1598	3061	2,4,3,6,10,16,20,23,26,33,37,42,46,48,51	-0.84	-1.41	-3.06	5.81	-4.29	-1.46	-1.19	-4.66	-1.91	-5.17	1.07	2.02	-6.05	0.96	-0.33	2.28	-2.17	**-20.4**
1599	4165	2,4,7,11,17,18,20,23,26,33,37,42,46,48,51	-1.00	-1.41	-2.42	7.00	-5.37	-1.46	0.96	5.10	-0.49	-5.55	1.05	2.02	-5.29	-10.57	-3.11	2.28	-2.17	**-20.4**
1600	121	1,3,7,11,13,15,23,27,28,34,36,39,44,55	-3.78	-1.15	0.84	-3.98	0.51	-3.18	-4.77	6.36	0.55	9.17	-2.25	-1.80	-2.71	-11.56	1.06	-1.54	-2.17	**-20.4**
1601	2791	2,4,3,6,10,15,23,26,31,34,35,37,40,43,47,46,48,51	-0.24	0.92	-0.94	2.54	-3.66	0.25	-1.91	-4.37	-1.63	-5.08	0.96	2.02	-2.74	-6.29	-0.33	2.28	-2.17	**-20.4**
1602	3459	2,4,3,6,9,11,13,16,20,23,26,31,34,38,40,42,47,50,54	-3.90	0.92	-11.61	0.52	8.60	-0.60	-4.06	2.48	5.01	-4.11	-0.36	-1.80	-12.00	-5.63	-0.33	2.28	4.21	**-20.4**
1603	4974	2,4,7,9,8,14,30,31,34,35,37,42,49,53,54	-0.46	-1.93	3.79	-1.15	4.53	-2.32	2.40	0.34	-13.37	0.54	0.54	2.02	0.44	-8.92	-3.11	-1.54	-2.17	**-20.4**
1604	2585	2,4,3,6,10,13,17,18,20,23,26,33,37,40,43,47,46,48,51	-0.22	0.40	-2.60	6.41	-5.30	0.25	-0.47	-4.66	-1.91	-4.98	1.15	2.02	-4.94	-5.30	-0.33	2.28	-2.17	**-20.4**
1605	258	1,3,7,11,13,16,18,21,28,34,35,37,42,46,48,52,53,54	-1.97	-0.38	-4.39	3.94	1.52	-0.60	0.25	3.45	-2.35	-7.02	0.95	0.11	-7.89	-3.32	1.06	-1.54	-2.17	**-20.4**
1606	4358	2,4,7,11,17,21,28,34,38,43,47,46,48,52,53,54	-2.14	-1.67	-4.64	4.32	4.11	-0.60	0.96	4.52	-1.06	-6.73	0.83	0.11	-8.36	-9.58	-3.11	-1.54	4.21	**-20.4**
1607	3729	2,4,3,6,9,11,17,21,28,34,35,37,40,43,47,46,48,51	-0.46	0.40	-1.29	6.93	-2.11	1.97	0.96	-2.46	-3.16	-6.71	1.39	2.02	-2.91	-10.90	-0.33	-1.54	-2.17	**-20.4**
1608	2120	1,6,9,11,13,16,18,21,27,26,31,34,38,40,42,49,53,54	-3.95	0.66	-10.55	-1.80	8.13	0.25	-3.34	2.20	0.54	-7.56	0.26	0.11	-9.60	-4.64	2.45	2.28	4.21	**-20.4**
1609	1520	1,6,10,13,17,21,28,34,36,39,41,43,50,54	-1.14	-0.64	-3.28	-2.15	0.71	-0.60	-0.47	-5.74	-1.07	6.27	-1.49	-1.80	-3.32	-4.31	2.45	-1.54	-2.17	**-20.3**
1610	2263	1,6,9,11,13,16,20,23,27,28,34,38,41,44,55	-2.85	-1.67	-6.38	-1.59	8.35	-2.32	-4.77	2.17	2.57	-2.52	-0.23	-1.80	-8.71	-5.63	2.45	-1.54	4.21	**-20.3**
1611	4048	2,4,7,11,13,16,20,23,26,31,34,35,37,42,46,48,52,53,54	-1.80	-0.38	-5.03	5.38	0.56	-3.18	-1.19	5.81	1.21	-5.65	0.81	0.11	-9.59	-4.31	-3.11	2.28	-2.17	**-20.2**
1612	4427	2,4,7,9,10,13,17,18,20,23,26,31,34,36,39,44,55	-3.38	0.14	-0.73	-1.71	-0.57	-4.03	-4.77	0.72	1.81	7.42	-1.82	-1.80	-4.53	-3.98	-3.11	2.28	-2.17	**-20.2**
1613	571	1,3,7,11,17,21,28,31,33,37,42,46,48,51	-1.13	-1.41	-1.76	5.56	-4.41	1.11	2.40	2.74	-4.05	-6.77	1.24	2.02	-3.52	-9.58	1.06	-1.54	-2.17	**-20.2**
1614	925	1,3,7,9,10,15,23,26,33,37,42,46,48,51	-0.86	-0.90	-1.37	1.17	-5.96	-0.60	-0.47	0.83	-2.49	-5.28	0.80	2.02	-3.26	-4.97	1.06	2.28	-2.17	**-20.2**
1615	2242	1,6,9,11,13,16,20,23,27,28,34,35,37,40,43,47,46,48,52,53,54	-1.32	-0.12	-5.14	5.62	1.36	-0.60	-1.91	1.41	-0.52	-3.33	0.66	0.11	-9.50	-5.63	2.45	-1.54	-2.17	**-20.2**
1616	2024	1,6,9,11,13,15,23,27,28,34,38,40,42,46,48,52,53,54	-1.59	-0.64	-3.88	1.29	3.35	-1.46	-1.91	3.16	-0.15	-3.46	0.38	0.11	-7.63	-12.87	2.45	-1.54	4.21	**-20.2**
1617	3976	2,4,7,11,13,16,18,21,27,26,31,34,38,40,42,49,53,54	-4.20	0.66	-10.67	-1.51	8.58	-0.60	-2.62	6.61	0.85	-7.62	0.11	0.11	-9.91	-3.32	-3.11	2.28	4.21	**-20.2**
1618	4119	2,4,7,11,13,16,20,23,27,28,34,38,41,44,55	-3.11	-1.67	-6.50	-1.29	8.80	-3.18	-4.06	6.57	2.89	-2.58	-0.38	-1.80	-9.02	-4.31	-3.11	-1.54	4.21	**-20.1**
1619	3356	2,4,3,6,9,11,13,16,18,21,27,26,31,34,35,37,42,46,48,52,53,54	-1.11	1.70	-3.51	4.67	0.79	-1.46	-0.47	-1.75	-1.25	-8.23	1.42	0.11	-6.11	-4.64	-0.33	2.28	-2.17	**-20.1**
1620	1709	1,6,10,16,18,21,27,26,31,34,38,41,44,55	-2.67	-1.15	-5.39	-4.88	7.06	-0.60	-4.06	-5.55	0.74	-6.96	0.38	-1.80	-6.07	1.95	2.45	2.28	4.21	**-20.1**
1621	367	1,3,7,11,13,16,20,23,27,28,34,38,43,47,49,53,54	-4.57	-0.90	-12.40	-0.08	9.42	-1.46	-4.06	9.77	1.58	-2.72	-0.63	0.11	-13.53	-4.31	1.06	-1.54	4.21	**-20.0**
1622	4953	2,4,7,9,10,16,20,23,27,28,34,36,39,44,55	-3.78	-1.41	-1.42	-1.78	1.69	-4.03	-5.49	0.72	0.40	9.48	-2.20	-1.80	-5.86	2.28	-3.11	-1.54	-2.17	**-20.0**
1623	4098	2,4,7,11,13,16,20,23,27,28,34,35,37,40,43,47,46,48,52,53,54	-1.58	-0.12	-5.26	5.91	1.81	-1.46	-1.19	5.81	-0.21	-3.39	0.51	0.11	-9.81	-4.31	-3.11	-1.54	-2.17	**-20.0**
1624	2439	1,6,9,11,17,21,27,26,31,34,36,39,44,55	-3.39	-0.90	0.97	-1.73	-0.64	-1.46	-3.34	-1.49	0.43	4.52	-1.21	-1.80	-1.61	-10.90	2.45	2.28	-2.17	**-20.0**
1625	4613	2,4,7,9,10,13,17,21,28,34,35,37,40,43,47,46,48,51	-0.61	0.40	-1.95	4.89	-2.37	1.97	0.96	-2.62	-3.92	-6.51	1.18	2.02	-3.61	-2.99	-3.11	-1.54	-2.17	**-20.0**
1626	1688	1,6,10,16,18,21,27,26,31,34,35,37,40,43,47,46,48,52,53,54	-1.14	0.40	-4.14	2.33	0.07	1.11	-1.19	-6.31	-2.36	-7.77	1.27	0.11	-6.85	1.95	2.45	2.28	-2.17	**-20.0**
1627	3880	2,4,7,11,13,15,23,27,28,34,38,40,42,46,48,52,53,54	-1.85	-0.64	-4.00	1.58	3.80	-2.32	-1.19	7.57	0.16	-3.51	0.23	0.11	-7.94	-11.56	-3.11	-1.54	4.21	**-20.0**
1628	1307	1,6,10,13,17,18,20,23,26,31,34,35,37,42,46,48,51	-0.60	-0.38	-2.73	5.30	-4.24	-0.60	-1.19	-4.26	-0.71	-5.31	1.15	2.02	-5.65	-5.30	2.45	2.28	-2.17	**-19.9**
1629	1995	1,6,9,11,13,15,23,27,28,31,33,37,40,43,47,46,48,51	-0.25	0.14	-0.77	3.66	-4.49	1.11	-0.47	0.98	-3.14	-3.08	0.80	2.02	-2.27	-12.87	2.45	-1.54	-2.17	**-19.9**
1630	1172	1,3,7,9,10,16,20,23,27,28,31,33,37,40,43,47,46,48,52,53,54	-1.35	-0.12	-5.82	3.54	-0.65	-0.60	-1.19	1.25	-2.49	-2.87	0.46	0.11	-9.73	2.28	1.06	-1.54	-2.17	**-19.8**
1631	1148	1,3,7,9,10,16,20,23,26,31,34,38,40,42,49,53,54	-4.32	-0.38	-12.49	-2.53	7.74	-1.46	-4.77	4.81	1.92	-4.69	-0.41	0.11	-13.18	2.28	1.06	2.28	4.21	**-19.8**
1632	1865	1,6,8,14,30,31,34,35,37,42,47,50,54	-0.40	-2.19	3.83	-1.19	4.23	0.25	2.40	-6.15	-11.39	1.36	0.45	0.11	0.39	-10.24	2.45	-1.54	-2.17	**-19.8**
1633	4295	2,4,7,11,17,21,27,26,31,34,36,39,44,55	-3.64	-0.90	0.85	-1.43	-0.19	-2.32	-2.62	2.91	0.74	4.47	-1.36	-1.80	-1.92	-9.58	-3.11	2.28	-2.17	**-19.8**
1634	2218	1,6,9,11,13,16,20,23,26,33,37,40,43,47,46,48,52,53,54	-1.34	-0.64	-4.86	5.37	-1.46	-0.60	-1.19	1.41	-0.32	-5.30	0.94	0.11	-8.79	-5.63	2.45	2.28	-2.17	**-19.7**
1635	1481	1,6,10,13,17,21,27,26,33,37,40,43,47,46,48,51	-0.38	-0.64	-1.56	4.35	-5.63	2.82	0.96	-7.02	-4.06	-7.67	1.56	2.02	-2.74	-4.31	2.45	2.28	-2.17	**-19.7**
1636	1833	1,6,10,16,20,23,27,28,34,35,37,42,46,48,51	-1.00	-1.93	-3.43	5.23	-1.98	-0.60	-1.91	-4.26	-2.12	-3.24	0.77	2.02	-6.98	0.96	2.45	-1.54	-2.17	**-19.7**
1637	4843	2,4,7,9,10,16,18,21,28,31,33,37,42,46,48,51	-0.90	-0.38	-2.28	4.18	-3.15	0.25	0.96	-2.62	-5.13	-6.45	1.15	2.02	-3.81	3.26	-3.11	-1.54	-2.17	**-19.7**
1638	3851	2,4,7,11,13,15,23,27,28,31,33,37,40,43,47,46,48,51	-0.50	0.14	-0.89	3.96	-4.04	0.25	0.25	5.39	-2.83	-3.13	0.65	2.02	-2.58	-11.56	-3.11	-1.54	-2.17	**-19.7**
1639	1357	1,6,10,13,17,18,20,23,27,28,34,35,37,40,43,47,46,48,51	-0.38	-0.12	-2.97	5.83	-2.99	1.11	-1.19	-4.26	-2.12	-3.04	0.85	2.02	-5.87	-5.30	2.45	-1.54	-2.17	**-19.7**
1640	1604	1,6,10,15,23,27,28,34,36,39,41,40,42,49,53,54	-0.75	-0.64	-2.62	-4.70	0.50	-2.32	-3.34	-0.61	-2.17	9.23	-1.92	0.11	-2.84	-6.29	2.45	-1.54	-2.17	**-19.6**
1641	2768	2,4,3,6,10,13,17,21,28,34,36,39,41,40,42,49,53,54	-0.67	0.40	-3.05	-1.13	1.32	-1.46	-1.19	-4.05	-3.40	5.84	-1.24	0.11	-2.74	-4.31	-0.33	-1.54	-2.17	**-19.6**
1642	3207	2,4,3,6,9,11,13,15,23,26,31,34,35,37,42,46,48,51	-0.38	0.92	-0.40	4.06	-3.45	-1.46	-1.19	0.58	-0.52	-5.57	1.09	2.02	-2.22	-12.87	-0.33	2.28	-2.17	**-19.6**
1643	4074	2,4,7,11,13,16,20,23,26,33,37,40,43,47,46,48,52,53,54	-1.60	-0.64	-4.98	5.67	-1.01	-1.46	-0.47	5.81	0.00	-5.35	0.79	0.11	-9.10	-4.31	-3.11	2.28	-2.17	**-19.6**
1644	2030	1,6,9,11,13,15,23,27,28,34,38,43,47,46,48,52,53,54	-1.58	-0.90	-3.86	1.68	3.57	-1.46	-1.91	3.16	-0.15	-3.26	0.39	0.11	-7.59	-12.87	2.45	-1.54	4.21	**-19.5**
1645	346	1,3,7,11,13,16,20,23,27,28,34,35,37,42,46,48,52,53,54	-1.91	-0.90	-5.47	5.17	1.35	-2.32	-1.19	6.21	-0.21	-3.61	0.51	0.11	-10.29	-4.31	1.06	-1.54	-2.17	**-19.5**
1646	861	1,3,7,9,10,13,17,21,28,34,35,37,42,46,48,51	-0.94	-0.38	-2.16	4.15	-2.83	1.11	0.96	-2.22	-3.92	-6.73	1.18	2.02	-4.10	-2.99	1.06	-1.54	-2.17	**-19.5**
1647	725	1,3,7,9,10,13,17,18,20,23,27,28,34,36,39,44,55	-3.49	-0.38	-1.17	-1.92	0.22	-3.18	-4.77	1.12	0.40	9.45	-2.12	-1.80	-5.23	-3.98	1.06	-1.54	-2.17	**-19.5**
1648	2291	1,6,9,11,17,18,20,23,26,31,34,36,39,44,55	-3.40	-0.90	-0.16	-0.49	-0.81	-3.18	-4.77	1.27	2.57	7.18	-1.63	-1.80	-4.04	-11.89	2.45	2.28	-2.17	**-19.5**
1649	2125	1,6,9,11,13,16,18,21,27,26,31,34,38,43,47,49,53,54	-3.94	0.66	-10.53	-1.41	8.35	0.25	-3.34	2.20	0.54	-7.37	0.26	0.11	-9.57	-4.64	2.45	2.28	4.21	**-19.5**
1650	3600	2,4,3,6,9,11,17,18,20,23,27,28,34,38,40,42,46,48,52,53,54	-1.41	0.14	-5.34	5.69	3.78	-2.32	-1.19	2.48	0.77	-3.43	0.57	0.11	-9.76	-11.89	-0.33	-1.54	4.21	**-19.4**

Table F-3: Weighted, Sorted Z-scores for All Routes

		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
1651	3382	2,4,3,6,9,11,13,16,18,21,27,26,33,37,40,43,47,46,48,52,53,54	-0.90	1.44	-3.47	4.96	-0.78	0.25	0.25	-1.75	-2.46	-7.93	1.40	0.11	-5.63	-4.64	-0.33	2.28	-2.17	**-19.4**
1652	73	1,3,7,11,13,15,23,26,31,34,38,41,44,55	-2.85	-0.90	-4.32	-5.54	6.15	-2.32	-4.06	7.26	3.38	-4.67	-0.21	-1.80	-5.49	-11.56	1.06	2.28	4.21	**-19.4**
1653	2859	2,4,3,6,10,15,23,27,28,34,36,39,41,43,47,49,53,54	-0.57	0.92	-2.52	-3.48	1.22	-3.18	-3.34	-1.01	-2.17	9.45	-1.90	0.11	-2.58	-6.29	-0.33	-1.54	-2.17	**-19.4**
1654	3886	2,4,7,11,13,15,23,27,28,34,38,43,47,46,48,52,53,54	-1.84	-0.90	-3.98	1.98	4.02	-2.32	-1.19	7.57	0.16	-3.31	0.24	0.11	-7.90	-11.56	-3.11	-1.54	4.21	**-19.4**
1655	3257	2,4,3,6,9,11,13,15,23,27,28,34,35,37,40,43,47,46,48,51	-0.16	1.18	-0.63	4.59	-2.20	0.25	-1.19	0.58	-1.94	-3.30	0.79	2.02	-2.45	-12.87	-0.33	-1.54	-2.17	**-19.4**
1656	1809	1,6,10,16,20,23,26,33,37,42,46,48,51	-1.02	-2.45	-3.15	4.99	-4.79	-0.60	-1.19	-4.26	-1.91	-5.20	1.05	2.02	-6.28	0.96	2.45	2.28	-2.17	**-19.3**
1657	3043	2,4,3,6,10,16,20,23,26,31,34,36,39,44,55	-3.50	-0.90	-0.92	-1.38	0.72	-4.03	-6.21	-4.09	1.47	7.50	-1.76	-1.80	-5.11	0.96	-0.33	2.28	-2.17	**-19.3**
1658	4147	2,4,7,11,17,18,20,23,26,31,34,36,39,44,55	-3.66	-0.90	-0.28	-0.20	-0.36	-4.03	-4.06	5.68	2.89	7.13	-1.78	-1.80	-4.35	-10.57	-3.11	2.28	-2.17	**-19.3**
1659	3981	2,4,7,11,13,16,18,21,27,26,31,34,38,43,47,49,53,54	-4.20	0.66	-10.65	-1.11	8.80	-0.60	-2.62	6.61	0.85	-7.42	0.11	0.11	-9.88	-3.32	-3.11	2.28	4.21	**-19.3**
1660	52	1,3,7,11,13,15,23,26,31,34,35,37,40,43,47,46,48,52,53,54	-1.32	0.66	-3.07	1.66	-0.83	-0.60	-1.19	6.50	0.28	-5.48	0.68	0.11	-6.28	-11.56	1.06	2.28	-2.17	**-19.3**
1661	1539	1,6,10,15,23,26,31,34,35,37,40,43,47,46,48,51	-0.41	-0.12	-1.03	1.72	-4.16	1.11	-1.91	-3.97	-1.63	-5.11	0.94	2.02	-2.97	-6.29	2.45	2.28	-2.17	**-19.2**
1662	2207	1,6,9,11,13,16,20,23,26,31,34,38,40,42,47,50,54	-4.08	-0.12	-11.70	-0.31	8.10	0.25	-4.06	2.88	5.01	-4.14	-0.37	-1.80	-12.23	-5.63	2.45	2.28	4.21	**-19.2**
1663	1333	1,6,10,13,17,18,20,23,26,33,37,40,43,47,46,48,51	-0.40	-0.64	-2.69	5.59	-5.80	1.11	-0.47	-4.26	-1.91	-5.01	1.14	2.02	-5.17	-5.30	2.45	2.28	-2.17	**-19.2**
1664	2477	1,6,9,11,17,21,28,34,35,37,40,43,47,46,48,51	-0.63	-0.64	-1.38	6.11	-2.61	2.82	0.96	-2.06	-3.16	-6.74	1.37	2.02	-3.13	-10.90	2.45	-1.54	-2.17	**-19.2**
1665	99	1,3,7,11,13,15,23,27,28,31,33,37,42,46,48,51	-0.83	-0.64	-1.10	3.22	-4.50	-0.60	0.25	5.79	-2.83	-3.36	0.65	2.02	-3.06	-11.56	1.06	-1.54	-2.17	**-19.2**
1666	273	1,3,7,11,13,16,18,21,28,34,38,40,42,47,50,54	-4.51	-0.12	-11.19	-1.46	9.51	1.97	-1.91	4.92	1.76	-5.56	-0.38	-1.80	-10.84	-3.32	1.06	-1.54	4.21	**-19.2**
1667	3571	2,4,3,6,9,11,17,18,20,23,27,28,31,33,37,40,43,47,46,48,51	-0.06	0.92	-2.24	8.06	-4.06	0.25	0.25	0.30	-2.22	-3.05	0.99	2.02	-4.40	-11.89	-0.33	-1.54	-2.17	**-19.2**
1668	1115	1,3,7,9,10,16,18,21,28,34,38,41,44,55	-3.03	-1.15	-5.94	-4.79	8.30	-0.60	-3.34	-0.75	-0.34	-5.73	-0.01	-1.80	-6.94	3.26	1.06	-1.54	4.21	**-19.1**
1669	322	1,3,7,11,13,16,20,23,26,33,37,42,46,48,52,53,54	-1.93	-1.41	-5.19	4.93	-1.46	-2.32	-0.47	6.21	0.00	-5.58	0.79	0.11	-9.59	-4.31	1.06	2.28	-2.17	**-19.1**
1670	4484	2,4,7,9,10,13,17,18,20,23,27,28,34,38,40,42,46,48,52,53,54	-1.56	0.14	-6.00	3.65	3.51	-2.32	-1.19	2.33	0.01	-3.22	0.37	0.11	-10.46	-3.98	-3.11	-1.54	4.21	**-19.1**
1671	907	1,3,7,9,10,15,23,26,31,34,36,39,44,55	-3.52	-0.38	0.77	-6.03	-0.95	-3.18	-5.49	1.40	0.89	7.39	-2.03	-1.80	-2.33	-4.97	1.06	2.28	-2.17	**-19.1**
1672	4063	2,4,7,11,13,16,20,23,26,31,34,38,40,42,47,50,54	-4.34	-0.12	-11.82	-0.01	8.55	-0.60	-3.34	7.28	5.32	-4.19	-0.52	-1.80	-12.54	-4.31	-3.11	2.28	4.21	**-19.1**
1673	4333	2,4,7,11,17,21,28,34,35,37,40,43,47,46,48,51	-0.89	-0.64	-1.50	6.41	-2.16	1.97	1.68	2.34	-2.84	-6.80	1.22	2.02	-3.44	-9.58	-3.11	-1.54	-2.17	**-19.0**
1674	1094	1,3,7,9,10,16,18,21,28,34,35,37,40,43,47,46,48,52,53,54	-1.50	0.40	-4.70	2.42	1.31	1.11	-0.47	-1.51	-3.43	-6.54	0.88	0.11	-7.73	3.26	1.06	-1.54	-2.17	**-19.0**
1675	197	1,3,7,11,13,16,18,21,27,26,31,34,35,37,40,41,44,55	-2.33	0.40	-4.29	-2.85	4.12	0.25	-2.62	2.74	0.86	-7.40	0.51	-1.80	-4.46	-3.32	1.06	2.28	-2.17	**-19.0**
1676	4905	2,4,7,9,10,16,20,23,26,31,34,38,41,44,55	-2.86	-1.15	-6.58	-3.34	7.34	-3.18	-4.77	1.62	3.22	-4.35	-0.16	-1.80	-8.64	2.28	-3.11	2.28	4.21	**-19.0**
1677	3012	2,4,3,6,10,16,18,21,28,34,38,40,42,46,48,52,53,54	-1.74	-0.38	-5.12	2.73	4.97	-0.60	-1.19	-5.24	-2.48	-6.55	0.87	0.11	-8.64	1.95	-0.33	-1.54	4.21	**-19.0**
1678	1153	1,3,7,9,10,16,20,23,26,31,34,38,43,47,49,53,54	-4.32	-0.38	-12.47	-2.13	7.96	-1.46	-4.77	4.81	1.92	-4.50	-0.41	0.11	-13.15	2.28	1.06	2.28	4.21	**-19.0**
1679	825	1,3,7,9,10,13,17,21,27,26,31,34,38,41,44,55	-2.55	-0.12	-5.19	-4.72	6.04	-0.60	-2.62	-0.75	1.08	-7.04	0.35	-1.80	-5.59	-2.99	1.06	2.28	4.21	**-19.0**
1680	2104	1,6,9,11,13,16,18,21,27,26,31,34,35,37,42,46,48,52,53,54	-1.28	0.66	-3.60	3.85	0.28	-0.60	-0.47	-1.35	-1.25	-8.26	1.40	0.11	-6.33	-4.64	2.45	2.28	-2.17	**-18.9**
1681	2973	2,4,3,6,10,16,18,21,27,26,33,37,42,46,48,51	-0.58	-0.38	-1.75	4.58	-4.12	0.25	0.25	-7.42	-4.06	-7.83	1.51	2.02	-3.11	1.95	-0.33	2.28	-2.17	**-18.9**
1682	3233	2,4,3,6,9,11,13,15,23,26,33,37,40,43,47,46,48,51	-0.18	0.66	-0.36	4.35	-5.02	0.25	-0.47	0.58	-1.73	-5.26	1.08	2.02	-1.74	-12.87	-0.33	2.28	-2.17	**-18.9**
1683	4884	2,4,7,9,10,16,20,23,26,31,34,35,37,40,43,47,46,48,52,53,54	-1.33	0.40	-5.33	3.86	0.35	-1.46	-1.91	0.85	0.13	-5.16	0.73	0.11	-9.43	2.28	-3.11	2.28	-2.17	**-18.9**
1684	4999	2,4,7,9,8,14,30,33,37,40,43,47,49,53,54	-0.26	-1.41	3.84	-0.86	2.97	-0.60	3.11	0.34	-14.58	0.84	0.52	2.02	0.92	-8.92	-3.11	-1.54	-2.17	**-18.9**
1685	3371	2,4,3,6,9,11,13,16,18,21,27,26,31,34,38,40,42,47,50,54	-3.64	1.96	-10.30	-0.72	8.77	1.11	-2.62	-0.28	2.86	-6.77	0.09	-1.80	-9.06	-4.64	-0.33	2.28	4.21	**-18.9**
1686	804	1,3,7,9,10,13,17,21,27,26,31,34,35,37,40,43,47,46,48,52,53,54	-1.02	1.44	-3.95	2.48	-0.95	1.11	0.25	-1.51	-2.02	-7.85	1.24	0.11	-6.37	-2.99	1.06	2.28	-2.17	**-18.9**
1687	4716	2,4,7,9,10,15,23,27,28,34,36,39,41,43,50,54	-0.97	0.40	-2.65	-4.60	0.84	-3.18	-1.91	1.71	0.49	9.63	-2.25	-1.80	-2.83	-4.97	-3.11	-1.54	-2.17	**-18.9**
1688	3421	2,4,3,6,9,11,13,16,18,21,28,34,36,39,44,55	-3.48	0.14	0.46	-0.57	2.35	-2.32	-4.06	-1.89	-0.99	5.87	-1.48	-1.80	-2.41	-4.64	-0.33	-1.54	-2.17	**-18.9**
1689	4931	2,4,7,9,10,16,20,23,27,28,31,33,37,42,46,48,51	-0.84	-0.90	-3.36	5.42	-3.32	-1.46	-0.47	0.15	-2.98	-3.04	0.71	2.02	-6.21	2.28	-3.11	-1.54	-2.17	**-18.8**
1690	3606	2,4,3,6,9,11,17,18,20,23,27,28,34,38,43,47,46,48,52,53,54	-1.40	-0.12	-5.33	6.09	4.00	-2.32	-1.19	2.48	0.77	-3.23	0.58	0.11	-9.72	-11.89	-0.33	-1.54	4.21	**-18.8**
1691	2722	2,4,3,6,10,13,17,21,27,26,31,34,38,40,42,46,48,52,53,54	-1.27	0.66	-4.38	2.80	2.71	-0.60	-0.47	-5.24	-1.07	-7.87	1.23	0.11	-7.29	-4.31	-0.33	2.28	4.21	**-18.8**
1692	314	1,3,7,11,13,16,20,23,26,31,34,38,43,50,54	-4.69	-0.90	-12.03	-0.81	8.06	-1.46	-3.34	7.68	5.32	-4.53	-0.54	-1.80	-13.03	-4.31	1.06	2.28	4.21	**-18.8**
1693	4455	2,4,7,9,10,13,17,18,20,23,27,28,31,33,37,40,43,47,46,48,51	-0.22	0.92	-2.90	6.02	-4.33	0.25	0.25	0.15	-2.98	-2.84	0.79	2.02	-5.11	-3.98	-3.11	-1.54	-2.17	**-18.8**
1694	3960	2,4,7,11,13,16,18,21,27,26,31,34,35,37,42,46,48,52,53,54	-1.54	0.66	-3.72	4.14	0.73	-1.46	0.25	3.05	-0.94	-8.31	1.25	0.11	-6.64	-3.32	-3.11	2.28	-2.17	**-18.7**
1695	2983	2,4,3,6,10,16,18,21,28,31,33,37,40,43,47,46,48,51	-0.40	0.40	-2.02	5.11	-2.87	1.97	0.25	-7.42	-5.47	-6.17	1.29	2.02	-3.28	1.95	-0.33	-1.54	-2.17	**-18.7**
1696	1248	1,3,7,9,8,14,30,33,37,42,49,53,54	-0.59	-2.45	3.63	-1.60	2.51	-1.46	3.11	0.74	-14.58	0.61	0.52	2.02	0.44	-8.92	1.06	-1.54	-2.17	**-18.7**
1697	4970	2,4,7,9,8,14,30,31,34,35,37,40,43,50,54	-0.36	-1.41	3.94	-1.34	4.43	-0.60	3.11	-1.74	-11.04	1.00	0.34	0.11	0.71	-8.92	-3.11	-1.54	-2.17	**-18.6**
1698	4666	2,4,7,9,10,15,23,26,31,34,38,40,42,46,48,52,53,54	-1.60	0.14	-4.07	-0.47	2.34	-2.32	-1.91	2.61	0.50	-5.29	0.46	0.11	-7.56	-4.97	-3.11	2.28	4.21	**-18.6**
1699	3113	2,4,3,6,8,14,30,31,34,35,37,40,43,47,49,53,54	0.04	-0.38	4.06	-0.22	4.81	-0.60	1.68	-4.47	-13.71	0.82	0.68	2.02	0.96	-10.24	-0.33	-1.54	-2.17	**-18.6**
1700	2624	2,4,3,6,10,13,17,18,20,23,27,28,34,36,39,41,43,50,54	-0.65	0.92	-4.08	-0.09	1.04	-3.18	-1.91	-3.38	1.07	9.71	-1.90	-1.80	-4.99	-5.30	-0.33	-1.54	-2.17	**-18.6**
1701	581	1,3,7,11,17,21,28,34,35,37,42,46,48,51	-1.22	-1.41	-1.71	5.67	-2.62	1.11	1.68	2.74	-2.84	-7.02	1.22	2.02	-3.92	-9.58	1.06	-1.54	-2.17	**-18.5**
1702	445	1,3,7,11,17,18,20,23,27,28,34,36,39,44,55	-3.77	-1.41	-0.72	-0.40	0.43	-3.18	-4.06	6.08	1.47	9.16	-2.08	-1.80	-5.06	-10.57	1.06	-1.54	-2.17	**-18.5**
1703	1516	1,6,10,13,17,21,28,34,36,39,41,40,42,49,53,54	-0.85	-0.64	-3.14	-1.96	0.82	-0.60	-1.19	-3.65	-3.40	5.81	-1.25	0.11	-2.97	-4.31	2.45	-1.54	-2.17	**-18.5**
1704	1955	1,6,9,11,13,15,23,26,31,34,35,37,42,46,48,51	-0.55	-0.12	-0.49	3.24	-3.95	-0.60	-1.19	0.98	-0.52	-5.59	1.08	2.02	-2.45	-12.87	2.45	2.28	-2.17	**-18.5**
1705	677	1,3,7,9,10,13,17,18,20,23,26,31,34,38,41,44,55	-2.56	-0.12	-6.32	-3.48	5.87	-2.32	-4.06	2.02	3.22	-4.38	-0.07	-1.80	-8.02	-3.98	1.06	2.28	4.21	**-18.5**

Table F-3: Weighted, Sorted Z-scores for All Routes

Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
1706	4490	2,4,7,9,10,13,17,18,20,23,27,28,34,38,43,47,46,48,52,53,54	-1.55	-0.12	-5.99	4.04	3.73	-2.32	-1.19	2.33	0.01	-3.02	0.37	0.11	-10.43	-3.98	-3.11	-1.54	4.21	**-18.4**
1707	1132	1,3,7,9,10,16,20,23,26,31,34,35,37,42,46,48,52,53,54	-1.66	-0.38	-5.54	3.12	-0.11	-2.32	-1.91	1.25	0.13	-5.39	0.73	0.11	-9.91	2.28	1.06	2.28	-2.17	**-18.4**
1708	656	1,3,7,9,10,13,17,18,20,23,26,31,34,35,37,40,43,47,46,48,52,53,54	-1.04	1.44	-5.08	3.72	-1.12	-0.60	-1.19	1.25	0.13	-5.19	0.82	0.11	-8.80	-3.98	1.06	2.28	-2.17	**-18.4**
1709	3018	2,4,3,6,10,16,18,21,28,34,38,43,47,46,48,52,53,54	-1.74	-0.64	-5.11	3.13	5.19	-0.60	-1.19	-5.24	-2.48	-6.35	0.87	0.11	-8.61	1.95	-0.33	-1.54	4.21	**-18.4**
1710	1060	1,3,7,9,10,16,18,21,27,26,31,34,38,40,42,49,53,54	-4.06	0.66	-11.18	-3.77	7.91	0.25	-3.34	2.05	-0.23	-7.36	0.03	0.11	-10.24	3.26	1.06	2.28	4.21	**-18.3**
1711	2574	2,4,3,6,10,13,17,18,20,23,26,31,34,38,40,42,46,48,52,53,54	-1.28	0.66	-5.51	4.04	2.54	-2.32	-1.91	-2.48	1.08	-5.21	0.81	0.11	-9.72	-5.30	-0.33	2.28	4.21	**-18.3**
1712	361	1,3,7,11,13,16,20,23,27,28,34,38,40,42,47,50,54	-4.44	-0.64	-12.26	-0.22	9.34	0.25	-3.34	7.68	3.91	-2.15	-0.82	-1.80	-13.24	-4.31	1.06	-1.54	4.21	**-18.3**
1713	2348	1,6,9,11,17,18,20,23,27,28,34,38,40,42,46,48,52,53,54	-1.58	-0.90	-5.43	4.86	3.27	-1.46	-1.19	2.88	0.77	-3.46	0.56	0.11	-9.98	-11.89	2.45	-1.54	4.21	**-18.3**
1714	703	1,3,7,9,10,13,17,18,20,23,27,28,31,33,37,42,46,48,51	-0.54	0.14	-3.10	5.28	-4.79	-0.60	0.25	0.54	-2.98	-3.07	0.79	2.02	-5.59	-3.98	1.06	-1.54	-2.17	**-18.3**
1715	3811	2,4,7,11,13,15,23,26,31,34,35,37,42,46,48,51	-0.81	-0.12	-0.61	3.54	-3.50	-1.46	-0.47	5.39	-0.21	-5.65	0.93	2.02	-2.76	-11.56	-3.11	2.28	-2.17	**-18.3**
1716	1203	1,3,7,9,10,16,20,23,27,28,34,38,41,44,55	-2.97	-1.67	-7.02	-3.55	8.13	-2.32	-4.77	2.02	1.81	-2.32	-0.46	-1.80	-9.35	2.28	1.06	-1.54	4.21	**-18.3**
1717	3679	2,4,3,6,9,11,17,21,27,26,31,34,35,37,42,46,48,51	-0.35	0.66	-0.83	6.40	-3.35	0.25	0.96	-2.46	-1.74	-8.23	1.68	2.02	-2.15	-10.90	-0.33	2.28	-2.17	**-18.3**
1718	2130	1,6,9,11,13,16,18,21,27,26,33,37,40,43,47,46,48,52,53,54	-1.08	0.40	-3.56	4.14	-1.29	1.11	0.25	-1.35	-2.46	-7.96	1.39	0.11	-5.85	-4.64	2.45	2.28	-2.17	**-18.2**
1719	1607	1,6,10,15,23,27,28,34,36,39,41,43,47,49,53,54	-0.74	-0.12	-2.61	-4.30	0.72	-2.32	-3.34	-0.61	-2.17	9.42	-1.91	0.11	-2.80	-6.29	2.45	-1.54	-2.17	**-18.2**
1720	2005	1,6,9,11,13,15,23,27,28,34,35,37,40,43,47,46,48,51	-0.33	0.14	-0.72	3.77	-2.70	1.11	-1.19	0.98	-1.94	-3.33	0.78	2.02	-2.67	-12.87	2.45	-1.54	-2.17	**-18.2**
1721	2771	2,4,3,6,10,13,17,21,28,34,36,39,41,43,47,49,53,54	-0.66	0.92	-3.03	-0.73	1.54	-1.46	-1.19	-4.05	-3.40	6.04	-1.24	0.11	-2.71	-4.31	-0.33	-1.54	-2.17	**-18.2**
1722	2728	2,4,3,6,10,13,17,21,27,26,31,34,38,43,47,46,48,52,53,54	-1.26	0.40	-4.36	3.20	2.93	-0.60	-0.47	-5.24	-1.07	-7.67	1.23	0.11	-7.25	-4.31	-0.33	2.28	4.21	**-18.2**
1723	1182	1,3,7,9,10,16,20,23,27,28,34,35,37,40,43,47,46,48,52,53,54	-1.44	-0.12	-5.77	3.65	1.14	-0.60	-1.91	1.25	-1.29	-3.12	0.43	0.11	-10.13	2.28	1.06	-1.54	-2.17	**-18.2**
1724	1791	1,6,10,16,20,23,26,31,34,36,39,44,55	-3.68	-1.93	-1.01	-2.21	0.21	-3.18	-6.21	-3.69	1.47	7.47	-1.77	-1.80	-5.34	0.96	2.45	2.28	-2.17	**-18.2**
1725	2855	2,4,3,6,10,15,23,27,28,34,36,39,41,40,42,47,50,54	-0.44	0.66	-2.38	-3.62	1.15	-1.46	-2.62	-3.09	0.15	10.02	-2.09	-1.80	-2.29	-6.29	-0.33	-1.54	-2.17	**-18.1**
1726	2806	2,4,3,6,10,15,23,26,31,34,36,39,41,43,50,54	-0.69	0.92	-2.15	-4.20	-0.13	-3.18	-2.62	-3.09	1.56	7.65	-1.81	-1.80	-2.08	-6.29	-0.33	2.28	-2.17	**-18.1**
1727	3100	2,4,3,6,10,16,20,23,27,28,34,38,40,42,46,48,52,53,54	-1.68	-0.90	-6.20	3.97	4.80	-2.32	-2.62	-2.48	-0.34	-3.14	0.42	0.11	-11.05	0.96	-0.33	-1.54	4.21	**-18.1**
1728	4204	2,4,7,11,17,18,20,23,27,28,34,38,40,42,46,48,52,53,54	-1.84	-0.90	-5.55	5.16	3.72	-2.32	-0.47	7.28	1.08	-3.51	0.41	0.11	-10.29	-10.57	-3.11	-1.54	4.21	**-18.1**
1729	3744	2,4,3,6,9,11,17,21,28,34,36,39,41,43,50,54	-0.91	0.40	-2.50	0.19	1.42	-1.46	0.25	-1.18	0.03	6.01	-1.38	-1.80	-2.25	-10.90	-0.33	-1.54	-2.17	**-18.1**
1730	3986	2,4,7,11,13,16,18,21,27,26,33,37,40,43,47,46,48,52,53,54	-1.34	0.40	-3.68	4.43	-0.84	0.25	0.96	3.05	-2.15	-8.01	1.23	0.11	-6.16	-3.32	-3.11	2.28	-2.17	**-18.0**
1731	2319	1,6,9,11,17,18,20,23,27,28,31,33,37,40,43,47,46,48,51	-0.24	-0.12	-2.32	7.24	-4.57	1.11	0.25	0.70	-2.22	-3.08	0.98	2.02	-4.62	-11.89	2.45	-1.54	-2.17	**-18.0**
1732	4853	2,4,7,9,10,16,18,21,28,34,35,37,42,46,48,51	-0.99	-0.38	-2.23	4.29	-1.36	0.25	0.25	-2.62	-3.92	-6.70	1.13	2.02	-4.21	3.26	-3.11	-1.54	-2.17	**-18.0**
1733	3861	2,4,7,11,13,15,23,27,28,34,35,37,40,43,47,46,48,51	-0.59	0.14	-0.84	4.07	-2.26	0.25	-0.47	5.39	-1.62	-3.38	0.63	2.02	-2.98	-11.56	-3.11	-1.54	-2.17	**-18.0**
1734	545	1,3,7,11,17,21,27,26,31,34,38,41,44,55	-2.83	-1.15	-4.74	-3.20	6.25	-0.60	-1.91	4.21	2.16	-7.33	0.38	-1.80	-5.42	-9.58	1.06	2.28	4.21	**-18.0**
1735	4672	2,4,7,9,10,15,23,26,31,34,38,43,47,46,48,52,53,54	-1.59	-0.12	-4.05	-0.07	2.56	-2.32	-1.91	2.61	0.50	-5.09	0.46	0.11	-7.52	-4.97	-3.11	2.28	4.21	**-18.0**
1736	3509	2,4,3,6,9,11,13,16,20,23,27,28,34,36,39,44,55	-3.42	-0.38	-0.61	0.67	2.18	-4.03	-5.49	0.87	1.16	9.28	-1.93	-1.80	-4.82	-5.63	-0.33	-1.54	-2.17	**-18.0**
1737	524	1,3,7,11,17,21,27,26,31,34,35,37,40,43,47,46,48,52,53,54	-1.30	0.40	-3.50	4.00	-0.74	1.11	0.96	3.45	-0.94	-8.14	1.27	0.11	-6.20	-9.58	1.06	2.28	-2.17	**-17.9**
1738	964	1,3,7,9,10,15,23,27,28,34,38,40,42,46,48,52,53,54	-1.70	-0.38	-4.51	-0.68	3.13	-1.46	-1.91	3.01	-0.92	-3.25	0.16	0.11	-8.26	-4.97	1.06	-1.54	4.21	**-17.9**
1739	4563	2,4,7,9,10,13,17,21,27,26,31,34,35,37,42,46,48,51	-0.51	0.66	-1.49	4.36	-3.62	0.25	0.96	-2.62	-2.51	-8.02	1.48	2.02	-2.85	-2.99	-3.11	2.28	-2.17	**-17.9**
1740	3071	2,4,3,6,10,16,20,23,27,28,31,33,37,40,43,47,46,48,51	-0.34	-0.12	-3.09	6.35	-3.04	0.25	-1.19	-4.66	-3.33	-2.76	0.84	2.02	-5.69	0.96	-0.33	-1.54	-2.17	**-17.8**
1741	4175	2,4,7,11,17,18,20,23,27,28,31,33,37,40,43,47,46,48,51	-0.50	-0.12	-2.44	7.53	-4.12	0.25	0.96	5.10	-1.90	-3.13	0.83	2.02	-4.93	-10.57	-3.11	-1.54	-2.17	**-17.8**
1742	1760	1,6,10,16,18,21,28,34,38,40,42,46,48,52,53,54	-1.92	-1.41	-5.21	1.91	4.47	0.25	-1.19	-4.84	-2.48	-6.58	0.86	0.11	-8.87	1.95	2.45	-1.54	4.21	**-17.8**
1743	1721	1,6,10,16,18,21,27,26,33,37,42,46,48,51	-0.76	-1.41	-1.84	3.75	-4.62	1.11	0.25	-7.02	-4.06	-7.86	1.50	2.02	-3.33	1.95	2.45	2.28	-2.17	**-17.8**
1744	2955	2,4,3,6,10,16,18,21,27,26,31,34,36,39,44,55	-3.24	0.14	0.39	-2.62	0.89	-2.32	-4.77	-6.85	-0.68	4.84	-1.32	-1.80	-2.17	1.95	-0.33	2.28	-2.17	**-17.8**
1745	1981	1,6,9,11,13,15,23,26,33,37,40,43,47,46,48,51	-0.35	-0.38	-0.45	3.53	-5.52	1.11	-0.47	0.98	-1.73	-5.29	1.06	2.02	-1.96	-12.87	2.45	2.28	-2.17	**-17.8**
1746	4973	2,4,7,9,8,14,30,31,34,35,37,42,47,50,54	-0.33	-1.67	3.95	-0.89	4.68	-0.60	3.11	-1.74	-11.04	1.31	0.36	0.11	0.76	-8.92	-3.11	-1.54	-2.17	**-17.8**
1747	3531	2,4,3,6,9,11,17,18,20,23,26,31,34,35,37,42,46,48,51	-0.37	0.66	-1.96	7.64	-3.52	-1.46	-0.47	0.30	0.40	-5.57	1.26	2.02	-4.58	-11.89	-0.33	2.28	-2.17	**-17.8**
1748	2119	1,6,9,11,13,16,18,21,27,26,31,34,38,40,42,47,50,54	-3.82	0.92	-10.39	-1.55	8.27	1.97	-2.62	0.12	2.86	-6.80	0.08	-1.80	-9.28	-4.64	2.45	2.28	4.21	**-17.7**
1749	1158	1,3,7,9,10,16,20,23,26,33,37,40,43,47,46,48,52,53,54	-1.46	-0.64	-5.50	3.41	-1.68	-0.60	-1.19	1.25	-1.08	-5.09	0.72	0.11	-9.43	2.28	1.06	2.28	-2.17	**-17.7**
1750	2169	1,6,9,11,13,16,18,21,28,34,36,39,44,55	-3.66	-0.90	0.37	-1.39	1.84	-1.46	-4.06	-1.49	-0.99	5.84	-1.49	-1.80	-2.63	-4.64	2.45	-1.54	-2.17	**-17.7**
1751	4628	2,4,7,9,10,13,17,21,28,34,36,39,41,43,50,54	-1.06	0.40	-3.16	-1.85	1.16	-1.46	0.25	-1.33	-0.73	6.22	-1.58	-1.80	-2.95	-2.99	-3.11	-1.54	-2.17	**-17.7**
1752	2580	2,4,3,6,10,13,17,18,20,23,26,31,34,38,43,47,46,48,52,53,54	-1.28	0.40	-5.49	4.44	2.76	-2.32	-1.91	-2.48	1.08	-5.01	0.81	0.11	-9.68	-5.30	-0.33	2.28	4.21	**-17.7**
1753	2354	1,6,9,11,17,18,20,23,27,28,34,38,43,47,46,48,52,53,54	-1.58	-1.15	-5.42	5.26	3.49	-1.46	-1.19	2.88	0.77	-3.26	0.56	0.11	-9.94	-11.89	2.45	-1.54	4.21	**-17.7**
1754	1470	1,6,10,13,17,21,27,26,31,34,38,40,42,46,48,52,53,54	-1.44	-0.38	-4.46	1.98	2.21	0.25	-0.47	-4.84	-1.07	-7.90	1.21	0.11	-7.51	-4.31	2.45	2.28	4.21	**-17.7**
1755	3399	2,4,3,6,9,11,13,16,18,21,28,31,33,37,42,46,48,51	-0.54	0.66	-1.47	6.63	-2.66	0.25	0.96	-2.46	-4.37	-6.66	1.42	2.02	-2.77	-4.64	-0.33	-1.54	-2.17	**-17.7**
1756	935	1,3,7,9,10,15,23,27,28,31,33,37,40,43,47,46,48,51	-0.36	0.40	-1.40	1.70	-4.71	1.11	-0.47	0.83	-3.91	-2.87	0.58	2.02	-2.90	-4.97	1.06	-1.54	-2.17	**-17.6**
1757	3837	2,4,7,11,13,15,23,26,33,37,40,43,47,46,48,51	-0.61	-0.38	-0.57	3.82	-5.07	0.25	0.25	5.39	-1.41	-5.35	0.91	2.02	-2.27	-11.56	-3.11	2.28	-2.17	**-17.6**
1758	1731	1,6,10,16,18,21,28,31,33,37,40,43,47,46,48,51	-0.58	-0.64	-2.10	4.28	-3.38	2.82	0.25	-7.02	-5.47	-6.20	1.28	2.02	-3.51	1.95	2.45	-1.54	-2.17	**-17.6**
1759	234	1,3,7,11,13,16,18,21,27,26,33,37,42,46,48,52,53,54	-1.67	-0.38	-3.88	3.69	-1.29	-0.60	0.96	3.45	-2.15	-8.24	1.23	0.11	-6.64	-3.32	1.06	2.28	-2.17	**-17.6**
1760	3705	2,4,3,6,9,11,17,21,27,26,33,37,40,43,47,46,48,51	-0.15	0.40	-0.78	6.69	-4.92	1.97	1.68	-2.46	-2.95	-7.93	1.67	2.02	-1.66	-10.90	-0.33	2.28	-2.17	**-17.6**

Table F-3: Weighted, Sorted Z-scores for All Routes

Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
1761	3975	2,4,7,11,13,16,18,21,27,26,31,34,38,40,42,47,50,54	-4.07	0.92	-10.51	-1.25	8.72	1.11	-1.91	4.52	3.18	-6.85	-0.08	-1.80	-9.59	-3.32	-3.11	2.28	4.21	**-17.5**
1762	109	1,3,7,11,13,15,23,27,28,34,35,37,42,46,48,51	-0.92	-0.64	-1.05	3.33	-2.71	-0.60	-0.47	5.79	-1.62	-3.61	0.63	2.02	-3.46	-11.56	1.06	-1.54	-2.17	**-17.5**
1763	4025	2,4,7,11,13,16,18,21,28,34,36,39,44,55	-3.92	-0.90	0.25	-1.10	2.29	-2.32	-3.34	2.91	-0.67	5.78	-1.65	-1.80	-2.94	-3.32	-3.11	-1.54	-2.17	**-17.5**
1764	397	1,3,7,11,17,18,20,23,26,31,34,38,41,44,55	-2.84	-1.15	-5.87	-1.97	6.08	-2.32	-3.34	6.97	4.30	-4.67	-0.04	-1.80	-7.85	-10.57	1.06	2.28	4.21	**-17.5**
1765	3106	2,4,3,6,10,16,20,23,27,28,34,38,43,47,46,48,52,53,54	-1.68	-1.15	-6.18	4.37	5.02	-2.32	-2.62	-2.48	-0.34	-2.94	0.43	0.11	-11.01	0.96	-0.33	-1.54	4.21	**-17.5**
1766	4210	2,4,7,11,17,18,20,23,27,28,34,38,43,47,46,48,52,53,54	-1.83	-1.15	-5.54	5.56	3.94	-2.32	-0.47	7.28	1.08	-3.31	0.41	0.11	-10.25	-10.57	-3.11	-1.54	4.21	**-17.5**
1767	3581	2,4,3,6,9,11,17,18,20,23,27,28,34,35,37,40,43,47,46,48,51	-0.15	0.92	-2.19	8.17	-2.28	0.25	-0.47	0.30	-1.01	-3.30	0.97	2.02	-4.80	-11.89	-0.33	-1.54	-2.17	**-17.5**
1768	4817	2,4,7,9,10,16,18,21,27,26,31,34,38,41,44,55	-2.59	-0.12	-5.27	-4.58	7.51	-1.46	-3.34	-1.15	1.08	-7.01	0.29	-1.80	-5.70	3.26	-3.11	2.28	4.21	**-17.5**
1769	1861	1,6,8,14,30,31,34,35,37,40,43,47,49,53,54	-0.14	-1.41	3.97	-1.05	4.31	0.25	1.68	-4.07	-13.71	0.79	0.67	2.02	0.73	-10.24	2.45	-1.54	-2.17	**-17.5**
1770	1065	1,3,7,9,10,16,18,21,27,26,31,34,38,43,47,49,53,54	-4.05	0.66	-11.16	-3.37	8.13	0.25	-3.34	2.05	-0.23	-7.16	0.04	0.11	-10.20	3.26	1.06	2.28	4.21	**-17.5**
1771	3139	2,4,3,6,8,14,30,33,37,40,41,44,55	1.37	-2.19	9.79	-1.89	2.16	-1.46	2.40	-7.26	-13.61	1.04	0.92	0.11	5.46	-10.24	-0.33	-1.54	-2.17	**-17.4**
1772	376	1,3,7,11,17,18,20,23,26,31,34,35,37,40,43,47,46,48,52,53,54	-1.32	0.40	-4.63	5.23	-0.91	-0.60	-0.47	6.21	1.21	-5.48	0.85	0.11	-8.63	-10.57	1.06	2.28	-2.17	**-17.4**
1773	1372	1,6,10,13,17,18,20,23,27,28,34,36,39,41,43,50,54	-0.83	-0.12	-4.17	-0.91	0.54	-2.32	-1.91	-2.98	1.07	9.68	-1.91	-1.80	-5.21	-5.30	2.45	-1.54	-2.17	**-17.4**
1774	4796	2,4,7,9,10,16,18,21,27,26,31,34,35,37,40,43,47,46,48,52,53,54	-1.07	1.44	-4.02	2.62	0.52	0.25	-0.47	-1.91	-2.02	-7.82	1.18	0.11	-6.48	3.26	-3.11	2.28	-2.17	**-17.4**
1775	4415	2,4,7,9,10,13,17,18,20,23,26,31,34,35,37,42,46,48,51	-0.52	0.66	-2.62	5.60	-3.79	-1.46	-0.47	0.15	-0.36	-5.36	1.06	2.02	-5.28	-3.98	-3.11	2.28	-2.17	**-17.4**
1776	423	1,3,7,11,17,18,20,23,27,28,31,33,37,42,46,48,51	-0.82	-0.90	-2.65	6.80	-4.58	-0.60	0.96	5.50	-1.90	-3.36	0.83	2.02	-5.42	-10.57	1.06	-1.54	-2.17	**-17.4**
1777	244	1,3,7,11,13,16,18,21,28,31,33,37,40,43,47,46,48,52,53,54	-1.49	0.40	-4.15	4.23	-0.05	1.11	0.96	3.45	-3.56	-6.57	1.01	0.11	-6.82	-3.32	1.06	-1.54	-2.17	**-17.3**
1778	226	1,3,7,11,13,16,18,21,27,26,31,34,38,43,50,54	-4.43	0.14	-10.72	-2.04	8.23	0.25	-1.91	4.92	3.18	-7.19	-0.09	-1.80	-10.09	-3.32	1.06	2.28	4.21	**-17.3**
1779	970	1,3,7,9,10,15,23,27,28,34,38,43,47,46,48,52,53,54	-1.70	-0.64	-4.49	-0.28	3.35	-1.46	-1.91	3.01	-0.92	-3.05	0.16	0.11	-8.23	-4.97	1.06	-1.54	4.21	**-17.3**
1780	1766	1,6,10,16,18,21,28,34,38,43,47,46,48,52,53,54	-1.91	-1.67	-5.20	2.31	4.69	0.25	-1.19	-4.84	-2.48	-6.38	0.86	0.11	-8.83	1.95	2.45	-1.54	4.21	**-17.2**
1781	1147	1,3,7,9,10,16,20,23,26,31,34,38,40,42,47,50,54	-4.19	-0.12	-12.33	-2.27	7.88	0.25	-4.06	2.72	4.24	-3.93	-0.59	-1.80	-12.86	2.28	1.06	2.28	4.21	**-17.2**
1782	1322	1,6,10,13,17,18,20,23,26,31,34,38,40,42,46,48,52,53,54	-1.46	-0.38	-5.59	3.21	2.04	-1.46	-1.91	-2.08	1.08	-5.24	0.79	0.11	-9.94	-5.30	2.45	2.28	4.21	**-17.2**
1783	4589	2,4,7,9,10,13,17,21,27,26,33,37,40,43,47,46,48,51	-0.31	0.40	-1.44	4.65	-5.18	1.97	1.68	-2.62	-3.71	-7.72	1.47	2.02	-2.37	-2.99	-3.11	2.28	-2.17	**-17.2**
1784	4941	2,4,7,9,10,16,20,23,27,28,34,35,37,42,46,48,51	-0.92	-0.90	-3.31	5.53	-1.53	-1.46	-1.19	0.15	-1.78	-3.29	0.68	2.02	-6.61	2.28	-3.11	-1.54	-2.17	**-17.2**
1785	2427	1,6,9,11,17,21,27,26,31,34,35,37,42,46,48,51	-0.53	-0.38	-0.91	5.58	-3.86	1.11	0.96	-2.06	-1.74	-8.26	1.67	2.02	-2.37	-10.90	2.45	2.28	-2.17	**-17.1**
1786	4465	2,4,7,9,10,13,17,18,20,23,27,28,34,35,37,40,43,47,46,48,51	-0.30	0.92	-2.85	6.13	-2.54	0.25	-0.47	0.15	-1.78	-3.10	0.76	2.02	-5.51	-3.98	-3.11	-1.54	-2.17	**-17.1**
1787	3272	2,4,3,6,9,11,13,15,23,27,28,34,36,39,41,43,50,54	-0.61	1.18	-1.84	-2.15	1.33	-3.18	-1.91	1.87	1.26	9.43	-1.97	-1.80	-1.79	-12.87	-0.33	-1.54	-2.17	**-17.1**
1788	85	1,3,7,11,13,15,23,26,33,37,42,46,48,51	-0.94	-1.15	-0.77	3.08	-5.53	-0.60	0.25	5.79	-1.41	-5.57	0.91	2.02	-2.76	-11.56	1.06	2.28	-2.17	**-17.1**
1789	1519	1,6,10,13,17,21,28,34,36,39,41,43,47,49,53,54	-0.84	-0.12	-3.12	-1.56	1.04	-0.60	-1.19	-3.65	-3.40	6.01	-1.25	0.11	-2.93	-4.31	2.45	-1.54	-2.17	**-17.1**
1790	1476	1,6,10,13,17,21,27,26,31,34,38,43,47,46,48,52,53,54	-1.44	-0.64	-4.45	2.37	2.43	0.25	-0.47	-4.84	-1.07	-7.70	1.22	0.11	-7.48	-4.31	2.45	2.28	4.21	**-17.1**
1791	3557	2,4,3,6,9,11,17,18,20,23,26,33,37,40,43,47,46,48,51	-0.17	0.40	-1.91	7.93	-5.09	0.25	0.25	0.30	-0.81	-5.27	1.25	2.02	-4.09	-11.89	-0.33	2.28	-2.17	**-17.1**
1792	4712	2,4,7,9,10,15,23,27,28,34,36,39,41,40,42,49,53,54	-0.67	0.40	-2.50	-4.40	0.95	-3.18	-2.62	3.80	-1.83	9.17	-2.01	0.11	-2.47	-4.97	-3.11	-1.54	-2.17	**-17.1**
1793	2993	2,4,3,6,10,16,18,21,28,34,35,37,40,43,47,46,48,51	-0.49	0.40	-1.97	5.22	-1.08	1.97	-0.47	-7.42	-4.27	-6.42	1.26	2.02	-3.69	1.95	-0.33	-1.54	-2.17	**-17.0**
1794	1603	1,6,10,15,23,27,28,34,36,39,41,40,42,47,50,54	-0.62	-0.38	-2.47	-4.44	0.64	-0.60	-2.62	-2.69	0.15	9.99	-2.10	-1.80	-2.52	-6.29	2.45	-1.54	-2.17	**-17.0**
1795	2767	2,4,3,6,10,13,17,21,28,34,36,39,41,40,42,47,50,54	-0.54	0.66	-2.89	-0.87	1.46	0.25	-0.47	-6.14	-1.07	6.61	-1.42	-1.80	-2.42	-4.31	-0.33	-1.54	-2.17	**-17.0**
1796	1554	1,6,10,15,23,26,31,34,36,39,41,43,50,54	-0.87	-0.12	-2.24	-5.03	-0.63	-2.32	-2.62	-2.69	1.56	7.62	-1.82	-1.80	-2.31	-6.29	2.45	2.28	-2.17	**-17.0**
1797	1848	1,6,10,16,20,23,27,28,34,38,40,42,46,48,52,53,54	-1.86	-1.93	-6.29	3.15	4.30	-1.46	-2.62	-2.08	-0.34	-3.17	0.41	0.11	-11.27	0.96	2.45	-1.54	4.21	**-17.0**
1798	2492	1,6,9,11,17,21,28,34,36,39,41,43,50,54	-1.09	-0.64	-2.59	-0.64	0.92	-0.60	0.25	-0.78	0.03	5.98	-1.39	-1.80	-2.47	-10.90	2.45	-1.54	-2.17	**-17.0**
1799	3461	2,4,3,6,9,11,13,16,20,23,26,31,34,38,41,44,55	-2.50	-0.12	-5.77	-0.90	7.82	-3.18	-4.77	1.77	3.99	-4.56	0.12	-1.80	-7.60	-5.63	-0.33	2.28	4.21	**-17.0**
1800	1244	1,3,7,9,8,14,30,33,37,40,43,50,54	-0.49	-1.93	3.77	-1.79	2.40	0.25	3.83	-1.34	-12.25	1.07	0.32	0.11	0.71	-8.92	1.06	-1.54	-2.17	**-16.9**
1801	4283	2,4,7,11,17,21,27,26,31,34,35,37,42,46,48,51	-0.79	-0.38	-1.03	5.87	-3.41	0.25	1.68	2.34	-1.43	-8.31	1.52	2.02	-2.68	-9.58	-3.11	2.28	-2.17	**-16.9**
1802	1044	1,3,7,9,10,16,18,21,27,26,31,34,35,37,42,46,48,52,53,54	-1.40	0.66	-4.23	1.88	0.06	-0.60	-0.47	-1.51	-2.02	-8.05	1.18	0.11	-6.97	3.26	1.06	2.28	-2.17	**-16.9**
1803	3440	2,4,3,6,9,11,13,16,20,23,26,31,34,35,37,40,43,47,46,48,52,53,54	-0.97	1.44	-4.52	6.31	0.84	-1.46	-1.91	1.01	0.89	-5.37	1.01	0.11	-8.39	-5.63	-0.33	2.28	-2.17	**-16.9**
1804	2703	2,4,3,6,10,13,17,21,27,26,31,34,35,37,40,43,47,46,48,51	-0.01	1.44	-1.22	5.28	-3.34	1.97	0.25	-7.42	-2.85	-7.74	1.62	2.02	-2.33	-4.31	-0.33	2.28	-2.17	**-16.9**
1805	2257	1,6,9,11,13,16,20,23,27,28,34,36,39,44,55	-3.60	-1.41	-0.70	-0.15	1.67	-3.18	-5.49	1.27	1.16	9.25	-1.94	-1.80	-5.04	-5.63	2.45	-1.54	-2.17	**-16.9**
1806	3222	2,4,3,6,9,11,13,15,23,26,31,34,38,40,42,46,48,52,53,54	-1.24	0.92	-3.26	1.98	2.83	-2.32	-1.91	2.76	1.26	-5.49	0.73	0.11	-6.52	-12.87	-0.33	2.28	4.21	**-16.9**
1807	3487	2,4,3,6,9,11,13,16,20,23,27,28,31,33,37,42,46,48,51	-0.48	0.14	-2.55	7.87	-2.83	-1.46	-0.47	0.30	-2.22	-3.25	0.98	2.02	-5.17	-5.63	-0.33	-1.54	-2.17	**-16.8**
1808	4348	2,4,7,11,17,21,28,34,36,39,41,43,50,54	-1.34	-0.64	-2.71	-0.34	1.37	-1.46	0.96	3.62	0.35	5.93	-1.54	-1.80	-2.78	-9.58	-3.11	-1.54	-2.17	**-16.8**
1809	2620	2,4,3,6,10,13,17,18,20,23,27,28,34,36,39,41,40,42,49,53,54	-0.36	0.92	-3.94	0.10	1.15	-3.18	-2.62	-1.29	-1.25	9.25	-1.66	0.11	-4.64	-5.30	-0.33	-1.54	-2.17	**-16.7**
1810	876	1,3,7,9,10,13,17,21,28,34,38,40,42,46,48,52,53,54	-1.80	-0.38	-5.02	2.07	3.45	0.25	0.25	-0.04	-2.14	-6.66	0.82	0.11	-8.39	-2.99	1.06	-1.54	4.21	**-16.7**
1811	4917	2,4,7,9,10,16,20,23,26,33,37,42,46,48,51	-0.94	-1.41	-3.03	5.29	-4.35	-1.46	-0.47	0.15	-1.57	-5.26	0.96	2.02	-5.91	2.28	-3.11	2.28	-2.17	**-16.7**
1812	1819	1,6,10,16,20,23,27,28,31,33,37,40,43,47,46,48,51	-0.52	-1.15	-3.18	5.52	-3.55	1.11	-1.19	-4.26	-3.33	-2.79	0.83	2.02	-5.92	0.96	2.45	-1.54	-2.17	**-16.7**
1813	837	1,3,7,9,10,13,17,21,27,26,33,37,42,46,48,51	-0.64	-0.38	-1.65	3.91	-5.64	1.11	1.68	-2.22	-3.71	-7.95	1.47	2.02	-2.86	-2.99	1.06	2.28	-2.17	**-16.7**
1814	4647	2,4,7,9,10,15,23,26,31,34,35,37,40,43,47,46,48,51	-0.34	0.92	-0.91	2.01	-3.71	0.25	-1.19	0.43	-1.28	-5.16	0.85	2.02	-2.60	-4.97	-3.11	2.28	-2.17	**-16.7**
1815	4113	2,4,7,11,13,16,20,23,27,28,34,36,39,44,55	-3.86	-1.41	-0.82	0.14	2.12	-4.03	-4.77	5.68	1.47	9.19	-2.09	-1.80	-5.35	-4.31	-3.11	-1.54	-2.17	**-16.7**

Table F-3: Weighted, Sorted Z-scores for All Routes

		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
1816	4441	2,4,7,9,10,13,17,18,20,23,26,33,37,40,43,47,46,48,51	-0.32	0.40	-2.57	5.88	-5.36	0.25	0.25	0.15	-1.57	-5.06	1.05	2.02	-4.80	-3.98	-3.11	2.28	-2.17	**-16.7**
1817	1703	1,6,10,16,18,21,27,26,31,34,36,39,44,55	-3.42	-0.90	0.30	-3.45	0.38	-1.46	-4.77	-6.45	-0.68	4.81	-1.33	-1.80	-2.39	1.95	2.45	2.28	-2.17	**-16.6**
1818	713	1,3,7,9,10,13,17,18,20,23,27,28,34,35,37,42,46,48,51	-0.63	0.14	-3.05	5.39	-3.00	-0.60	-0.47	0.54	-1.78	-3.32	0.76	2.02	-5.99	-3.98	1.06	-1.54	-2.17	**-16.6**
1819	2279	1,6,9,11,17,18,20,23,26,31,34,35,37,42,46,48,51	-0.55	-0.38	-2.04	6.81	-4.03	-0.60	-0.47	0.70	0.40	-5.60	1.25	2.02	-4.80	-11.89	2.45	2.28	-2.17	**-16.6**
1820	1328	1,6,10,13,17,18,20,23,26,31,34,38,43,47,46,48,52,53,54	-1.45	-0.64	-5.58	3.61	2.26	-1.46	-1.91	-2.08	1.08	-5.04	0.80	0.11	-9.91	-5.30	2.45	2.28	4.21	**-16.6**
1821	2147	1,6,9,11,13,16,18,21,28,31,33,37,42,46,48,51	-0.72	-0.38	-1.56	5.81	-3.16	1.11	0.96	-2.06	-4.37	-6.69	1.41	2.02	-2.99	-4.64	2.45	-1.54	-2.17	**-16.5**
1822	332	1,3,7,11,13,16,20,23,27,28,31,33,37,40,43,47,46,48,52,53,54	-1.43	-0.12	-5.22	5.46	-0.22	-0.60	-0.47	6.21	-1.42	-3.16	0.57	0.11	-9.23	-4.31	1.06	-1.54	-2.17	**-16.5**
1823	308	1,3,7,11,13,16,20,23,26,31,34,38,40,42,49,53,54	-4.40	-0.38	-11.89	-0.61	8.17	-1.46	-4.06	9.77	3.00	-4.98	-0.30	0.11	-12.68	-4.31	1.06	2.28	4.21	**-16.5**
1824	847	1,3,7,9,10,13,17,21,28,31,33,37,40,43,47,46,48,51	-0.46	0.40	-1.91	4.44	-4.39	2.82	1.68	-2.22	-5.13	-6.28	1.25	2.02	-3.03	-2.99	1.06	-1.54	-2.17	**-16.5**
1825	3031	2,4,3,6,10,16,20,23,26,31,34,35,37,42,46,48,51	-0.65	-0.38	-2.81	5.92	-2.50	-1.46	-1.91	-4.66	-0.71	-5.28	1.12	2.02	-5.87	0.96	-0.33	2.28	-2.17	**-16.4**
1826	4135	2,4,7,11,17,18,20,23,26,31,34,35,37,42,46,48,51	-0.80	-0.38	-2.16	7.11	-3.58	-1.46	0.25	5.10	0.72	-5.65	1.10	2.02	-5.11	-10.57	-3.11	2.28	-2.17	**-16.4**
1827	2453	1,6,9,11,17,21,27,26,33,37,40,43,47,46,48,51	-0.33	-0.64	-0.87	5.87	-5.43	2.82	1.68	-2.06	-2.95	-7.96	1.66	2.02	-1.89	-10.90	2.45	2.28	-2.17	**-16.4**
1828	2555	2,4,3,6,10,13,17,18,20,23,26,31,34,35,37,40,43,47,46,48,51	-0.02	1.44	-2.35	6.52	-3.51	0.25	-1.19	-4.66	-0.71	-5.08	1.20	2.02	-4.76	-5.30	-0.33	2.28	-2.17	**-16.4**
1829	1854	1,6,10,16,20,23,27,28,34,38,43,47,46,48,52,53,54	-1.85	-2.19	-6.27	3.55	4.51	-1.46	-2.62	-2.08	-0.34	-2.97	0.42	0.11	-11.24	0.96	2.45	-1.54	4.21	**-16.4**
1830	2329	1,6,9,11,17,18,20,23,27,28,34,35,37,40,43,47,46,48,51	-0.32	-0.12	-2.28	7.35	-2.78	1.11	-0.47	0.70	-1.01	-3.33	0.95	2.02	-5.02	-11.89	2.45	-1.54	-2.17	**-16.4**
1831	4003	2,4,7,11,13,16,18,21,28,31,33,37,42,46,48,51	-0.98	-0.38	-1.68	6.10	-2.72	0.25	1.68	2.34	-4.05	-6.74	1.26	2.02	-3.30	-3.32	-3.11	-1.54	-2.17	**-16.3**
1832	1887	1,6,8,14,30,33,37,40,41,44,55	1.19	-3.23	9.70	-2.71	1.66	-0.60	2.40	-6.86	-13.61	1.01	0.90	0.11	5.24	-10.24	2.45	-1.54	-2.17	**-16.3**
1833	2802	2,4,3,6,10,15,23,26,31,34,36,39,41,40,42,49,53,54	-0.40	0.92	-2.01	-4.01	-0.02	-3.18	-3.34	-1.01	-0.76	7.19	-1.57	0.11	-1.73	-6.29	-0.33	2.28	-2.17	**-16.3**
1834	3740	2,4,3,6,9,11,17,21,28,34,36,39,41,40,42,49,53,54	-0.62	0.40	-2.36	0.38	1.53	-1.46	-0.47	0.90	-2.29	5.55	-1.14	0.11	-1.89	-10.90	-0.33	-1.54	-2.17	**-16.3**
1835	3228	2,4,3,6,9,11,13,15,23,26,31,34,38,43,47,46,48,52,53,54	-1.23	0.66	-3.25	2.37	3.05	-2.32	-1.91	2.76	1.26	-5.30	0.74	0.11	-6.48	-12.87	-0.33	2.28	4.21	**-16.2**
1836	4309	2,4,7,11,17,21,27,26,33,37,40,43,47,46,48,51	-0.59	-0.64	-0.99	6.16	-4.98	1.97	2.40	2.34	-2.64	-8.01	1.50	2.02	-2.20	-9.58	-3.11	2.28	-2.17	**-16.2**
1837	1070	1,3,7,9,10,16,18,21,27,26,33,37,40,43,47,46,48,52,53,54	-1.19	0.40	-4.19	2.17	-1.51	1.11	0.25	-1.51	-3.23	-7.75	1.16	0.11	-6.48	3.26	1.06	2.28	-2.17	**-16.2**
1838	895	1,3,7,9,10,15,23,26,31,34,35,37,42,46,48,51	-0.67	0.14	-1.12	1.28	-4.17	-0.60	-1.19	0.83	-1.28	-5.39	0.85	2.02	-3.08	-4.97	1.06	2.28	-2.17	**-16.2**
1839	689	1,3,7,9,10,13,17,18,20,23,26,33,37,42,46,48,51	-0.65	-0.38	-2.78	5.15	-5.81	-0.60	0.25	0.54	-1.57	-5.29	1.05	2.02	-5.29	-3.98	1.06	2.28	-2.17	**-16.2**
1840	3081	2,4,3,6,10,16,20,23,27,28,34,35,37,40,43,47,46,48,51	-0.43	-0.12	-3.04	6.46	-1.25	0.25	-1.91	-4.66	-2.12	-3.01	0.82	2.02	-6.09	0.96	-0.33	-1.54	-2.17	**-16.2**
1841	4185	2,4,7,11,17,18,20,23,27,28,34,35,37,40,43,47,46,48,51	-0.58	-0.12	-2.40	7.64	-2.33	0.25	0.25	5.10	-0.70	-3.39	0.80	2.02	-5.33	-10.57	-3.11	-1.54	-2.17	**-16.2**
1842	882	1,3,7,9,10,13,17,21,28,34,38,43,47,46,48,52,53,54	-1.79	-0.64	-5.00	2.46	3.67	0.25	0.25	-0.04	-2.14	-6.46	0.83	0.11	-8.35	-2.99	1.06	-1.54	4.21	**-16.1**
1843	1247	1,3,7,9,8,14,30,33,37,42,47,50,54	-0.46	-2.19	3.79	-1.34	2.65	0.25	3.83	-1.34	-12.25	1.38	0.34	0.11	0.76	-8.92	1.06	-1.54	-2.17	**-16.1**
1844	3409	2,4,3,6,9,11,13,16,18,21,28,34,35,37,42,46,48,51	-0.63	0.66	-1.42	6.74	-0.87	0.25	0.25	-2.46	-3.16	-6.91	1.40	2.02	-3.17	-4.64	-0.33	-1.54	-2.17	**-16.0**
1845	2020	1,6,9,11,13,15,23,27,28,34,36,39,41,43,50,54	-0.79	0.14	-1.93	-2.97	0.82	-2.32	-1.91	2.27	1.26	9.40	-1.98	-1.80	-2.01	-12.87	2.45	-1.54	-2.17	**-16.0**
1846	67	1,3,7,11,13,15,23,26,31,34,36,39,44,55	-3.60	-0.64	1.37	-4.11	-0.52	-3.18	-4.77	6.36	1.97	7.10	-1.92	-1.80	-1.82	-11.56	1.06	2.28	-2.17	**-16.0**
1847	945	1,3,7,9,10,15,23,27,28,34,35,37,40,43,47,46,48,51	-0.45	0.40	-1.35	1.81	-2.92	1.11	-1.19	0.83	-2.70	-3.12	0.55	2.02	-3.30	-4.97	1.06	-1.54	-2.17	**-15.9**
1848	2305	1,6,9,11,17,18,20,23,26,33,37,40,43,47,46,48,51	-0.34	-0.64	-2.00	7.10	-5.60	1.11	0.25	0.70	-0.81	-5.30	1.24	2.02	-4.32	-11.89	2.45	2.28	-2.17	**-15.9**
1849	4624	2,4,7,9,10,13,17,21,28,34,36,39,41,40,42,49,53,54	-0.77	0.40	-3.02	-1.66	1.27	-1.46	-0.47	0.75	-3.05	5.76	-1.34	0.11	-2.60	-2.99	-3.11	-1.54	-2.17	**-15.9**
1850	1741	1,6,10,16,18,21,28,34,35,37,40,43,47,46,48,51	-0.66	-0.64	-2.05	4.39	-1.59	2.82	-0.47	-7.02	-4.27	-6.45	1.25	2.02	-3.91	1.95	2.45	-1.54	-2.17	**-15.9**
1851	2863	2,4,3,6,10,15,23,27,28,34,38,40,42,46,48,51	-0.69	-0.38	-1.78	2.13	0.74	-0.60	-1.91	-2.90	-1.75	-3.14	0.54	2.02	-4.22	-6.29	-0.33	-1.54	4.21	**-15.9**
1852	1515	1,6,10,13,17,21,28,34,36,39,41,40,42,47,50,54	-0.71	-0.38	-2.98	-1.70	0.96	1.11	-0.47	-5.74	-1.07	6.58	-1.44	-1.80	-2.65	-4.31	2.45	-1.54	-2.17	**-15.9**
1853	2209	1,6,9,11,13,16,20,23,26,31,34,38,41,44,55	-2.68	-1.15	-5.86	-1.72	7.32	-2.32	-4.77	2.17	3.99	-4.59	0.10	-1.80	-7.83	-5.63	2.45	2.28	4.21	**-15.8**
1854	596	1,3,7,11,17,21,28,34,38,40,42,46,48,52,53,54	-2.08	-1.41	-4.57	3.58	3.66	0.25	0.96	4.92	-1.06	-6.95	0.86	0.11	-8.22	-9.58	1.06	-1.54	4.21	**-15.8**
1855	3876	2,4,7,11,13,15,23,27,28,34,36,39,41,43,50,54	-1.04	0.14	-2.05	-2.68	1.27	-3.18	-1.19	6.67	1.57	9.34	-2.14	-1.80	-2.32	-11.56	-3.11	-1.54	-2.17	**-15.8**
1856	275	1,3,7,11,13,16,18,21,28,34,38,41,44,55	-3.10	-1.15	-5.34	-2.87	8.73	-0.60	-2.62	4.21	0.74	-6.02	0.10	-1.80	-6.44	-3.32	1.06	-1.54	4.21	**-15.8**
1857	557	1,3,7,11,17,21,27,26,33,37,42,46,48,51	-0.91	-1.41	-1.20	5.42	-5.43	1.11	2.40	2.74	-2.64	-8.24	1.50	2.02	-2.68	-9.58	1.06	2.28	-2.17	**-15.7**
1858	2188	1,6,9,11,13,16,20,23,26,31,34,35,37,40,43,47,46,48,52,53,54	-1.15	0.40	-4.61	5.48	0.33	-0.60	-1.91	1.41	0.89	-5.40	0.99	0.11	-8.61	-5.63	2.45	2.28	-2.17	**-15.7**
1859	1451	1,6,10,13,17,21,27,26,31,34,35,37,40,43,47,46,48,51	-0.19	0.40	-1.31	4.46	-3.84	2.82	0.25	-7.02	-2.85	-7.77	1.61	2.02	-2.56	-4.31	2.45	2.28	-2.17	**-15.7**
1860	3057	2,4,3,6,10,16,20,23,26,33,37,40,43,47,46,48,51	-0.45	-0.64	-2.77	6.21	-4.07	0.25	-1.19	-4.66	-1.91	-4.98	1.10	2.02	-5.39	0.96	-0.33	2.28	-2.17	**-15.7**
1861	4161	2,4,7,11,17,18,20,23,26,33,37,40,43,47,46,48,51	-0.60	-0.64	-2.12	7.40	-5.15	0.25	0.96	5.10	-0.49	-5.35	1.08	2.02	-4.63	-10.57	-3.11	2.28	-2.17	**-15.7**
1862	1059	1,3,7,9,10,16,18,21,27,26,31,34,38,40,42,47,50,54	-3.93	0.92	-11.02	-3.51	8.05	1.97	-2.62	-0.04	2.10	-6.59	-0.15	-1.80	-9.92	3.26	1.06	2.28	4.21	**-15.7**
1863	1970	1,6,9,11,13,15,23,26,31,34,38,40,42,46,48,52,53,54	-1.41	-0.12	-3.35	1.15	2.32	-1.46	-1.91	3.16	1.26	-5.52	0.72	0.11	-6.74	-12.87	2.45	2.28	4.21	**-15.7**
1864	1109	1,3,7,9,10,16,18,21,28,34,36,39,44,55	-3.77	-0.90	-0.26	-3.36	1.62	-1.46	-4.06	-1.64	-1.75	6.04	-1.72	-1.80	-3.27	3.26	1.06	-1.54	-2.17	**-15.7**
1865	433	1,3,7,11,17,18,20,23,27,28,34,35,37,42,46,48,51	-0.91	-0.90	-2.60	6.90	-2.79	-0.60	0.25	5.50	-0.70	-3.61	0.80	2.02	-5.82	-10.57	1.06	-1.54	-2.17	**-15.7**
1866	254	1,3,7,11,13,16,18,21,28,34,35,37,40,43,47,46,48,52,53,54	-1.57	0.40	-4.10	4.33	1.74	1.11	0.25	3.45	-2.35	-6.83	0.99	0.11	-7.22	-3.32	1.06	-1.54	-2.17	**-15.7**
1867	2235	1,6,9,11,13,16,20,23,27,28,31,33,37,42,46,48,51	-0.66	-0.90	-2.64	7.04	-3.34	-0.60	-0.47	0.70	-2.22	-3.28	0.96	2.02	-5.40	-5.63	2.45	-1.54	-2.17	**-15.7**
1868	4715	2,4,7,9,10,15,23,27,28,34,36,39,41,43,47,49,53,54	-0.67	0.92	-2.49	-4.00	1.17	-3.18	-2.62	3.80	-1.83	9.37	-2.00	0.11	-2.43	-4.97	-3.11	-1.54	-2.17	**-15.7**
1869	4065	2,4,7,11,13,16,20,23,26,31,34,38,41,44,55	-2.93	-1.15	-5.98	-1.42	7.77	-3.18	-4.06	6.57	4.30	-4.64	-0.05	-1.80	-8.14	-4.31	-3.11	2.28	4.21	**-15.6**
1870	1368	1,6,10,13,17,18,20,23,27,28,34,36,39,41,40,42,49,53,54	-0.54	-0.12	-4.03	-0.72	0.65	-2.32	-2.62	-0.89	-1.25	9.22	-1.67	0.11	-4.86	-5.30	2.45	-1.54	-2.17	**-15.6**

Table F-3: Weighted, Sorted Z-scores for All Routes

Weights			3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
Rank	**Route**	**Segments**	**Total length**	**Heavy angles > 30 degrees**	**Length not along Transmission Line**	**Length not along Roads**	**Length not along Property Lines**	**Roads crossed**	**Streams and rivers crossed**	**Wetland acres in ROW**	**Woodland acres in ROW**	**Cropland acres in ROW**	**Open/Pasture land in ROW**	**Rare species/ Species of concern polygons crossed**	**Visibility rating**	**Residential proximity score**	**Businesses within 300ft**	**Public facilities within 300ft**	**Cultural sites within 1320ft**	**Sum**
1871	313	1,3,7,11,13,16,20,23,26,31,34,38,43,47,49,53,54	-4.39	-0.38	-11.87	-0.21	8.39	-1.46	-4.06	9.77	3.00	-4.79	-0.30	0.11	-12.64	-4.31	1.06	2.28	4.21	**-15.6**
1872	4899	2,4,7,9,10,16,20,23,26,31,34,36,39,44,55	-3.61	-0.90	-0.89	-1.91	0.66	-4.03	-5.49	0.72	1.81	7.42	-1.86	-1.80	-4.97	2.28	-3.11	2.28	-2.17	**-15.6**
1873	4044	2,4,7,11,13,16,20,23,26,31,34,35,37,40,43,47,46,48,52,53,54	-1.41	0.40	-4.73	5.78	0.78	-1.46	-1.19	5.81	1.21	-5.45	0.84	0.11	-8.92	-4.31	-3.11	2.28	-2.17	**-15.5**
1874	819	1,3,7,9,10,13,17,21,27,26,31,34,36,39,44,55	-3.30	0.14	0.49	-3.29	-0.63	-1.46	-3.34	-1.64	-0.33	4.73	-1.36	-1.80	-1.92	-2.99	1.06	2.28	-2.17	**-15.5**
1875	3826	2,4,7,11,13,15,23,26,31,34,38,40,42,46,48,52,53,54	-1.67	-0.12	-3.47	1.45	2.77	-2.32	-1.19	7.57	1.58	-5.58	0.57	0.11	-7.05	-11.56	-3.11	2.28	4.21	**-15.5**
1876	567	1,3,7,11,17,21,28,31,33,37,40,43,47,46,48,51	-0.74	-0.64	-1.46	5.96	-4.19	2.82	2.40	2.74	-4.05	-6.57	1.28	2.02	-2.86	-9.58	1.06	-1.54	-2.17	**-15.5**
1877	3694	2,4,3,6,9,11,17,21,27,26,31,34,38,40,42,46,48,52,53,54	-1.21	0.66	-3.68	4.32	2.92	-0.60	0.25	-0.28	0.04	-8.16	1.33	0.11	-6.44	-10.90	-0.33	2.28	4.21	**-15.5**
1878	921	1,3,7,9,10,15,23,26,33,37,40,43,47,46,48,51	-0.47	-0.12	-1.08	1.56	-5.74	1.11	-0.47	0.83	-2.49	-5.09	0.84	2.02	-2.60	-4.97	1.06	2.28	-2.17	**-15.5**
1879	4091	2,4,7,11,13,16,20,23,27,28,31,33,37,42,46,48,51	-0.91	-0.90	-2.76	7.34	-2.89	-1.46	0.25	5.10	-1.90	-3.33	0.81	2.02	-5.71	-4.31	-3.11	-1.54	-2.17	**-15.5**
1880	3373	2,4,3,6,9,11,13,16,18,21,27,26,31,34,38,41,44,55	-2.24	0.92	-4.46	-2.13	7.99	-1.46	-3.34	-0.99	1.84	-7.22	0.56	-1.80	-4.66	-4.64	-0.33	2.28	4.21	**-15.5**
1881	4969	2,4,7,9,8,14,30,31,34,35,37,40,43,47,49,53,54	-0.06	-0.90	4.09	-0.75	4.75	-0.60	2.40	0.34	-13.37	0.74	0.58	2.02	1.10	-8.92	-3.11	-1.54	-2.17	**-15.4**
1882	3352	2,4,3,6,9,11,13,16,18,21,27,26,31,34,35,37,40,43,47,46,48,52,53,54	-0.71	2.48	-3.21	5.07	1.01	0.25	-0.47	-1.75	-1.25	-8.03	1.45	0.11	-5.44	-4.64	-0.33	2.28	-2.17	**-15.4**
1883	2623	2,4,3,6,10,13,17,18,20,23,27,28,34,36,39,41,43,47,49,53,54	-0.35	1.44	-3.93	0.50	1.37	-3.18	-2.62	-1.29	-1.25	9.45	-1.65	0.11	-4.60	-5.30	-0.33	-1.54	-2.17	**-15.3**
1884	1779	1,6,10,16,20,23,26,31,34,35,37,42,46,48,51	-0.82	-1.41	-2.90	5.10	-3.01	-0.60	-1.91	-4.26	-0.71	-5.31	1.10	2.02	-6.09	0.96	2.45	2.28	-2.17	**-15.3**
1885	3268	2,4,3,6,9,11,13,15,23,27,28,34,36,39,41,40,42,49,53,54	-0.32	1.18	-1.70	-1.96	1.44	-3.18	-2.62	3.95	-1.07	8.97	-1.73	0.11	-1.43	-12.87	-0.33	-1.54	-2.17	**-15.3**
1886	2869	2,4,3,6,10,15,23,27,28,34,38,43,47,46,48,51	-0.69	-0.64	-1.76	2.52	0.96	-0.60	-1.91	-2.90	-1.75	-2.94	0.55	2.02	-4.18	-6.29	-0.33	-1.54	4.21	**-15.3**
1887	4868	2,4,7,9,10,16,18,21,28,34,38,40,42,46,48,52,53,54	-1.85	-0.38	-5.09	2.21	4.91	-0.60	-0.47	-0.44	-2.14	-6.63	0.77	0.11	-8.50	3.26	-3.11	-1.54	4.21	**-15.3**
1888	3596	2,4,3,6,9,11,17,18,20,23,27,28,34,36,39,41,43,50,54	-0.60	0.92	-3.39	1.43	1.25	-3.18	-1.19	1.58	2.18	9.42	-1.80	-1.80	-4.14	-11.89	-0.33	-1.54	-2.17	**-15.2**
1889	409	1,3,7,11,17,18,20,23,26,33,37,42,46,48,51	-0.93	-1.41	-2.33	6.66	-5.60	-0.60	0.96	5.50	-0.49	-5.58	1.08	2.02	-5.11	-10.57	1.06	2.28	-2.17	**-15.2**
1890	1303	1,6,10,13,17,18,20,23,26,31,34,35,37,40,43,47,46,48,51	-0.20	0.40	-2.44	5.70	-4.02	1.11	-1.19	-4.26	-0.71	-5.11	1.19	2.02	-4.99	-5.30	2.45	2.28	-2.17	**-15.2**
1891	4829	2,4,7,9,10,16,18,21,27,26,33,37,42,46,48,51	-0.68	-0.38	-1.72	4.05	-4.17	0.25	0.96	-2.62	-3.71	-7.92	1.41	2.02	-2.96	3.26	-3.11	2.28	-2.17	**-15.2**
1892	1218	1,3,7,9,8,14,30,31,34,35,37,42,49,53,54	-0.39	-1.93	3.88	-1.49	4.30	-1.46	2.40	0.74	-13.37	0.51	0.58	2.02	0.62	-8.92	1.06	-1.54	-2.17	**-15.2**
1893	602	1,3,7,11,17,21,28,34,38,43,47,46,48,52,53,54	-2.07	-1.67	-4.55	3.98	3.88	0.25	0.96	4.92	-1.06	-6.76	0.87	0.11	-8.18	-9.58	1.06	-1.54	4.21	**-15.2**
1894	1550	1,6,10,15,23,26,31,34,36,39,41,40,42,49,53,54	-0.57	-0.12	-2.10	-4.83	-0.53	-2.32	-3.34	-0.61	-0.76	7.16	-1.58	0.11	-1.95	-6.29	2.45	2.28	-2.17	**-15.2**
1895	2488	1,6,9,11,17,21,28,34,36,39,41,40,42,49,53,54	-0.79	-0.64	-2.44	-0.44	1.03	-0.60	-0.47	1.30	-2.29	5.52	-1.16	0.11	-2.12	-10.90	2.45	-1.54	-2.17	**-15.2**
1896	3497	2,4,3,6,9,11,13,16,20,23,27,28,34,35,37,42,46,48,51	-0.57	0.14	-2.50	7.98	-1.04	-1.46	-1.19	0.30	-1.01	-3.50	0.95	2.02	-5.57	-5.63	-0.33	-1.54	-2.17	**-15.1**
1897	4578	2,4,7,9,10,13,17,21,27,26,31,34,38,40,42,46,48,52,53,54	-1.37	0.66	-4.34	2.27	2.66	-0.60	0.25	-0.44	-0.72	-7.95	1.12	0.11	-7.15	-2.99	-3.11	2.28	4.21	**-15.1**
1898	1976	1,6,9,11,13,15,23,26,31,34,38,43,47,46,48,52,53,54	-1.41	-0.38	-3.33	1.55	2.54	-1.46	-1.91	3.16	1.26	-5.33	0.72	0.11	-6.70	-12.87	2.45	2.28	4.21	**-15.1**
1899	292	1,3,7,11,13,16,20,23,26,31,34,35,37,42,46,48,52,53,54	-1.73	-0.38	-4.94	5.04	0.32	-2.32	-1.19	6.21	1.21	-5.68	0.84	0.11	-9.41	-4.31	1.06	2.28	-2.17	**-15.1**
1900	671	1,3,7,9,10,13,17,18,20,23,26,31,34,36,39,44,55	-3.31	0.14	-0.64	-2.05	-0.81	-3.18	-4.77	1.12	1.81	7.39	-1.78	-1.80	-4.35	-3.98	1.06	2.28	-2.17	**-15.0**
1901	1829	1,6,10,16,20,23,27,28,34,35,37,40,43,47,46,48,51	-0.60	-1.15	-3.13	5.63	-1.76	1.11	-1.91	-4.26	-2.12	-3.04	0.81	2.02	-6.32	0.96	2.45	-1.54	-2.17	**-15.0**
1902	4839	2,4,7,9,10,16,18,21,28,31,33,37,40,43,47,46,48,51	-0.50	0.40	-1.98	4.58	-2.93	1.97	0.96	-2.62	-5.13	-6.25	1.19	2.02	-3.14	3.26	-3.11	-1.54	-2.17	**-15.0**
1903	3546	2,4,3,6,9,11,17,18,20,23,26,31,34,38,40,42,46,48,52,53,54	-1.23	0.66	-4.81	5.55	2.75	-2.32	-1.19	2.48	2.18	-5.50	0.91	0.11	-8.87	-11.89	-0.33	2.28	4.21	**-15.0**
1904	220	1,3,7,11,13,16,18,21,27,26,31,34,38,40,42,49,53,54	-4.14	0.66	-10.58	-1.85	8.34	0.25	-2.62	7.01	0.85	-7.65	0.14	0.11	-9.73	-3.32	1.06	2.28	4.21	**-15.0**
1905	4344	2,4,7,11,17,21,28,34,36,39,41,40,42,49,53,54	-1.05	-0.64	-2.56	-0.14	1.48	-1.46	0.25	5.71	-1.98	5.47	-1.31	0.11	-2.43	-9.58	-3.11	-1.54	-2.17	**-15.0**
1906	2943	2,4,3,6,10,16,18,21,27,26,31,34,35,37,42,46,48,51	-0.38	0.66	-1.50	4.69	-2.33	0.25	-0.47	-7.42	-2.85	-7.94	1.56	2.02	-2.93	1.95	-0.33	2.28	-2.17	**-14.9**
1907	2805	2,4,3,6,10,15,23,26,31,34,36,39,41,43,47,49,53,54	-0.39	1.44	-1.99	-3.61	0.20	-3.18	-3.34	-1.01	-0.76	7.39	-1.57	0.11	-1.69	-6.29	-0.33	2.28	-2.17	**-14.9**
1908	3832	2,4,7,11,13,15,23,26,31,34,38,43,47,46,48,52,53,54	-1.67	-0.38	-3.45	1.85	2.99	-2.32	-1.19	7.57	1.58	-5.38	0.57	0.11	-7.01	-11.56	-3.11	2.28	4.21	**-14.9**
1909	3203	2,4,3,6,9,11,13,15,23,26,31,34,35,37,40,43,47,46,48,51	0.02	1.70	-0.10	4.46	-3.23	0.25	-1.19	0.58	-0.52	-5.37	1.13	2.02	-1.56	-12.87	-0.33	2.28	-2.17	**-14.9**
1910	3743	2,4,3,6,9,11,17,21,28,34,36,39,41,43,47,49,53,54	-0.61	0.92	-2.34	0.78	1.75	-1.46	-0.47	0.90	-2.29	5.75	-1.14	0.11	-1.86	-10.90	-0.33	-1.54	-2.17	**-14.9**
1911	363	1,3,7,11,13,16,20,23,27,28,34,38,41,44,55	-3.04	-1.67	-6.42	-1.63	8.56	-2.32	-4.06	6.97	2.89	-2.61	-0.35	-1.80	-8.84	-4.31	1.06	-1.54	4.21	**-14.9**
1912	3700	2,4,3,6,9,11,17,21,27,26,31,34,38,43,47,46,48,52,53,54	-1.21	0.40	-3.67	4.71	3.14	-0.60	0.25	-0.28	0.04	-7.96	1.33	0.11	-6.40	-10.90	-0.33	2.28	4.21	**-14.9**
1913	2157	1,6,9,11,13,16,18,21,28,34,35,37,42,46,48,51	-0.80	-0.38	-1.51	5.91	-1.38	1.11	0.25	-2.06	-3.16	-6.94	1.38	2.02	-3.39	-4.64	2.45	-1.54	-2.17	**-14.9**
1914	4480	2,4,7,9,10,13,17,18,20,23,27,28,34,36,39,41,43,50,54	-0.75	0.92	-4.05	-0.62	0.99	-3.18	-1.19	1.43	1.42	9.63	-2.00	-1.80	-4.85	-3.98	-3.11	-1.54	-2.17	**-14.9**
1915	1197	1,3,7,9,10,16,20,23,27,28,34,36,39,44,55	-3.71	-1.41	-1.33	-2.12	1.45	-3.18	-5.49	1.12	0.40	9.45	-2.16	-1.80	-5.68	2.28	1.06	-1.54	-2.17	**-14.8**
1916	342	1,3,7,11,13,16,20,23,27,28,34,35,37,40,43,47,46,48,52,53,54	-1.51	-0.12	-5.17	5.57	1.57	-0.60	-1.19	6.21	-0.21	-3.41	0.54	0.11	-9.63	-4.31	1.06	-1.54	-2.17	**-14.8**
1917	857	1,3,7,9,10,13,17,21,28,34,35,37,40,43,47,46,48,51	-0.54	0.40	-1.86	4.55	-2.61	2.82	0.96	-2.22	-3.92	-6.54	1.22	2.02	-3.43	-2.99	1.06	-1.54	-2.17	**-14.8**
1918	124	1,3,7,11,13,15,23,27,28,34,38,40,42,46,48,52,53,54	-1.78	-0.64	-3.91	1.24	3.56	-1.46	-1.19	7.97	0.16	-3.54	0.27	0.11	-7.76	-11.56	1.06	-1.54	4.21	**-14.8**
1919	3008	2,4,3,6,10,16,18,21,28,34,36,39,41,43,50,54	-0.94	0.40	-3.17	-1.53	2.44	-1.46	-1.19	-6.14	-1.07	6.30	-1.50	-1.80	-3.03	1.95	-0.33	-1.54	-2.17	**-14.8**
1920	1611	1,6,10,15,23,27,28,34,38,40,42,46,48,51	-0.87	-1.41	-1.87	1.30	0.23	0.25	-1.91	-2.50	-1.75	-3.17	0.53	2.02	-4.45	-6.29	2.45	-1.54	4.21	**-14.7**
1921	2775	2,4,3,6,10,13,17,21,28,34,38,40,42,46,48,51	-0.79	-0.38	-2.29	4.87	1.05	1.11	0.25	-5.95	-2.97	-6.55	1.21	2.02	-4.35	-4.31	-0.33	-1.54	4.21	**-14.7**
1922	3473	2,4,3,6,9,11,13,16,20,23,26,33,37,42,46,48,51	-0.59	-0.38	-2.22	7.73	-3.86	-1.46	-0.47	0.30	-0.81	-5.46	1.24	2.02	-4.87	-5.63	-0.33	2.28	-2.17	**-14.7**
1923	4013	2,4,7,11,13,16,18,21,28,34,35,37,42,46,48,51	-1.06	-0.38	-1.63	6.21	-0.93	0.25	0.96	2.34	-2.84	-6.99	1.23	2.02	-3.70	-3.32	-3.11	-1.54	-2.17	**-14.7**
1924	4874	2,4,7,9,10,16,18,21,28,34,38,43,47,46,48,52,53,54	-1.84	-0.64	-5.08	2.60	5.13	-0.60	-0.47	-0.44	-2.14	-6.44	0.77	0.11	-8.46	3.26	-3.11	-1.54	4.21	**-14.7**
1925	2718	2,4,3,6,10,13,17,21,27,26,31,34,36,39,41,43,50,54	-0.46	1.44	-2.43	-1.46	0.19	-1.46	-0.47	-6.14	0.34	4.99	-1.14	-1.80	-1.67	-4.31	-0.33	2.28	-2.17	**-14.6**

Table F-3: Weighted, Sorted Z-scores for All Routes

		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
1926	4430	2,4,7,9,10,13,17,18,20,23,26,31,34,38,40,42,46,48,52,53,54	-1.38	0.66	-5.47	3.51	2.49	-2.32	-1.19	2.33	1.42	-5.29	0.71	0.11	-9.58	-3.98	-3.11	2.28	4.21	**-14.6**
1927	539	1,3,7,11,17,21,27,26,31,34,36,39,44,55	-3.58	-0.90	0.94	-1.77	-0.43	-1.46	-2.62	3.31	0.74	4.44	-1.32	-1.80	-1.74	-9.58	1.06	2.28	-2.17	**-14.6**
1928	1805	1,6,10,16,20,23,26,33,37,40,43,47,46,48,51	-0.62	-1.67	-2.85	5.39	-4.57	1.11	-1.19	-4.26	-1.91	-5.01	1.09	2.02	-5.61	0.96	2.45	2.28	-2.17	**-14.6**
1929	1087	1,3,7,9,10,16,18,21,28,31,33,37,42,46,48,51	-0.83	-0.38	-2.19	3.84	-3.38	1.11	0.96	-2.22	-5.13	-6.48	1.19	2.02	-3.63	3.26	1.06	-1.54	-2.17	**-14.5**
1930	4627	2,4,7,9,10,13,17,21,28,34,36,39,41,43,47,49,53,54	-0.76	0.92	-3.00	-1.26	1.49	-1.46	-0.47	0.75	-3.05	5.96	-1.34	0.11	-2.56	-2.99	-3.11	-1.54	-2.17	**-14.5**
1931	95	1,3,7,11,13,15,23,27,28,31,33,37,40,43,47,46,48,51	-0.44	0.14	-0.80	3.62	-4.28	1.11	0.25	5.79	-2.83	-3.16	0.69	2.02	-2.40	-11.56	1.06	-1.54	-2.17	**-14.5**
1932	4584	2,4,7,9,10,13,17,21,27,26,31,34,38,43,47,46,48,52,53,54	-1.36	0.40	-4.33	2.67	2.88	-0.60	0.25	-0.44	-0.72	-7.75	1.13	0.11	-7.11	-2.99	-3.11	2.28	4.21	**-14.5**
1933	4711	2,4,7,9,10,15,23,27,28,34,36,39,41,40,42,47,50,54	-0.54	0.66	-2.35	-4.14	1.09	-1.46	-1.91	1.71	0.49	9.94	-2.19	-1.80	-2.15	-4.97	-3.11	-1.54	-2.17	**-14.4**
1934	4662	2,4,7,9,10,15,23,26,31,34,36,39,41,43,50,54	-0.79	0.92	-2.12	-4.73	-0.18	-3.18	-1.91	1.71	1.91	7.57	-1.91	-1.80	-1.94	-4.97	-3.11	2.28	-2.17	**-14.4**
1935	4956	2,4,7,9,10,16,20,23,27,28,34,38,40,42,46,48,52,53,54	-1.78	-0.90	-6.17	3.44	4.74	-2.32	-1.91	2.33	0.01	-3.22	0.32	0.11	-10.91	2.28	-3.11	-1.54	4.21	**-14.4**
1936	3552	2,4,3,6,9,11,17,18,20,23,26,31,34,38,43,47,46,48,52,53,54	-1.22	0.40	-4.80	5.95	2.97	-2.32	-1.19	2.48	2.18	-5.30	0.91	0.11	-8.83	-11.89	-0.33	2.28	4.21	**-14.4**
1937	318	1,3,7,11,13,16,20,23,26,33,37,40,43,47,46,48,52,53,54	-1.53	-0.64	-4.90	5.33	-1.25	-0.60	-0.47	6.21	0.00	-5.38	0.83	0.11	-8.92	-4.31	1.06	2.28	-2.17	**-14.4**
1938	2442	1,6,9,11,17,21,27,26,31,34,38,40,42,46,48,52,53,54	-1.39	-0.38	-3.77	3.49	2.42	0.25	0.25	0.12	0.04	-8.19	1.31	0.11	-6.66	-10.90	2.45	2.28	4.21	**-14.4**
1939	2121	1,6,9,11,13,16,18,21,27,26,31,34,38,41,44,55	-2.41	-0.12	-4.55	-2.96	7.49	-0.60	-3.34	-0.59	1.84	-7.25	0.55	-1.80	-4.88	-4.64	2.45	2.28	4.21	**-14.3**
1940	4995	2,4,7,9,8,14,30,33,37,40,41,44,55	1.27	-2.71	9.82	-2.41	2.11	-1.46	3.11	-2.45	-13.27	0.96	0.82	0.11	5.60	-8.92	-3.11	-1.54	-2.17	**-14.3**
1941	2100	1,6,9,11,13,16,18,21,27,26,31,34,35,37,40,43,47,46,48,52,53,54	-0.88	1.44	-3.30	4.24	0.50	1.11	-0.47	-1.35	-1.25	-8.06	1.44	0.11	-5.67	-4.64	2.45	2.28	-2.17	**-14.2**
1942	2969	2,4,3,6,10,16,18,21,27,26,33,37,40,43,47,46,48,51	-0.18	0.40	-1.46	4.97	-3.90	1.97	0.25	-7.42	-4.06	-7.64	1.55	2.02	-2.44	1.95	-0.33	2.28	-2.17	**-14.2**
1943	1371	1,6,10,13,17,18,20,23,27,28,34,36,39,41,43,47,49,53,54	-0.53	0.40	-4.02	-0.32	0.87	-2.32	-2.62	-0.89	-1.25	9.42	-1.67	0.11	-4.82	-5.30	2.45	-1.54	-2.17	**-14.2**
1944	4298	2,4,7,11,17,21,27,26,31,34,38,40,42,46,48,52,53,54	-1.65	-0.38	-3.89	3.79	2.87	-0.60	0.96	4.52	0.35	-8.24	1.16	0.11	-6.97	-9.58	-3.11	2.28	4.21	**-14.2**
1945	130	1,3,7,11,13,15,23,27,28,34,38,43,47,46,48,52,53,54	-1.77	-0.90	-3.89	1.64	3.78	-1.46	-1.19	7.97	0.16	-3.34	0.27	0.11	-7.72	-11.56	1.06	-1.54	4.21	**-14.2**
1946	2016	1,6,9,11,13,15,23,27,28,34,36,39,41,40,42,49,53,54	-0.49	0.14	-1.79	-2.78	0.93	-2.32	-2.62	4.35	-1.07	8.94	-1.75	0.11	-1.66	-12.87	2.45	-1.54	-2.17	**-14.1**
1947	4927	2,4,7,9,10,16,20,23,27,28,31,33,37,40,43,47,46,48,51	-0.44	-0.12	-3.06	5.82	-3.10	0.25	-0.47	0.15	-2.98	-2.84	0.74	2.02	-5.55	2.28	-3.11	-1.54	-2.17	**-14.1**
1948	1617	1,6,10,15,23,27,28,34,38,43,47,46,48,51	-0.86	-1.67	-1.85	1.70	0.45	0.25	-1.91	-2.50	-1.75	-2.97	0.54	2.02	-4.41	-6.29	2.45	-1.54	4.21	**-14.1**
1949	2619	2,4,3,6,10,13,17,18,20,23,27,28,34,36,39,41,40,42,47,50,54	-0.23	1.18	-3.79	0.36	1.29	-1.46	-1.91	-3.38	1.07	10.02	-1.84	-1.80	-4.31	-5.30	-0.33	-1.54	-2.17	**-14.1**
1950	3977	2,4,7,11,13,16,18,21,27,26,31,34,38,41,44,55	-2.67	-0.12	-4.67	-2.66	7.94	-1.46	-2.62	3.81	2.16	-7.30	0.40	-1.80	-5.19	-3.32	-3.11	2.28	4.21	**-14.1**
1951	2781	2,4,3,6,10,13,17,21,28,34,38,43,47,46,48,51	-0.78	-0.64	-2.27	5.27	1.27	1.11	0.25	-5.95	-2.97	-6.35	1.22	2.02	-4.31	-4.31	-0.33	-1.54	4.21	**-14.1**
1952	2570	2,4,3,6,10,13,17,18,20,23,26,31,34,36,39,41,43,50,54	-0.48	1.44	-3.56	-0.22	0.02	-3.18	-1.91	-3.38	2.49	7.65	-1.56	-1.80	-4.10	-5.30	-0.33	2.28	-2.17	**-14.1**
1953	2344	1,6,9,11,17,18,20,23,27,28,34,36,39,41,43,50,54	-0.78	-0.12	-3.48	0.60	0.75	-2.32	-1.19	1.98	2.18	9.39	-1.81	-1.80	-4.36	-11.89	2.45	-1.54	-2.17	**-14.1**
1954	391	1,3,7,11,17,18,20,23,26,31,34,36,39,44,55	-3.59	-0.90	-0.19	-0.54	-0.60	-3.18	-4.06	6.08	2.89	7.10	-1.74	-1.80	-4.17	-10.57	1.06	2.28	-2.17	**-14.1**
1955	225	1,3,7,11,13,16,18,21,27,26,31,34,38,43,47,49,53,54	-4.13	0.66	-10.56	-1.45	8.56	0.25	-2.62	7.01	0.85	-7.45	0.15	0.11	-9.70	-3.32	1.06	2.28	4.21	**-14.1**
1956	4811	2,4,7,9,10,16,18,21,27,26,31,34,36,39,44,55	-3.34	0.14	0.42	-3.15	0.83	-2.32	-4.06	-2.04	-0.33	4.76	-1.42	-1.80	-2.03	3.26	-3.11	2.28	-2.17	**-14.1**
1957	3956	2,4,7,11,13,16,18,21,27,26,31,34,35,37,40,43,47,46,48,52,53,54	-1.14	1.44	-3.42	4.54	0.95	0.25	0.25	3.05	-0.94	-8.11	1.29	0.11	-5.98	-3.32	-3.11	2.28	-2.17	**-14.0**
1958	2245	1,6,9,11,13,16,20,23,27,28,34,35,37,42,46,48,51	-0.74	-0.90	-2.59	7.15	-1.55	-0.60	-1.19	0.70	-1.01	-3.53	0.94	2.02	-5.80	-5.63	2.45	-1.54	-2.17	**-14.0**
1959	4436	2,4,7,9,10,13,17,18,20,23,26,31,34,38,43,47,46,48,52,53,54	-1.38	0.40	-5.46	3.91	2.71	-2.32	-1.19	2.33	1.42	-5.09	0.71	0.11	-9.54	-3.98	-3.11	2.28	4.21	**-14.0**
1960	3109	2,4,3,6,8,14,30,31,34,35,37,40,41,44,55	1.57	-1.67	10.05	-1.78	3.95	-1.46	1.68	-7.26	-12.41	0.93	0.97	0.11	5.64	-10.24	-0.33	-1.54	-2.17	**-14.0**
1961	3872	2,4,7,11,13,15,23,27,28,34,36,39,41,40,42,49,53,54	-0.75	0.14	-1.91	-2.48	1.38	-3.18	-1.91	8.75	-0.75	8.88	-1.90	0.11	-1.97	-11.56	-3.11	-1.54	-2.17	**-13.9**
1962	3096	2,4,3,6,10,16,20,23,27,28,34,36,39,41,43,50,54	-0.88	-0.12	-4.25	-0.29	2.27	-3.18	-2.62	-3.38	1.07	9.71	-1.94	-1.80	-5.43	0.96	-0.33	-1.54	-2.17	**-13.9**
1963	4200	2,4,7,11,17,18,20,23,27,28,34,36,39,41,43,50,54	-1.03	-0.12	-3.60	0.90	1.20	-3.18	-0.47	6.39	2.49	9.34	-1.96	-1.80	-4.67	-10.57	-3.11	-1.54	-2.17	**-13.9**
1964	3271	2,4,3,6,9,11,13,15,23,27,28,34,36,39,41,43,47,49,53,54	-0.31	1.70	-1.68	-1.56	1.66	-3.18	-2.62	3.95	-1.07	9.16	-1.73	0.11	-1.40	-12.87	-0.33	-1.54	-2.17	**-13.9**
1965	728	1,3,7,9,10,13,17,18,20,23,27,28,34,38,40,42,46,48,52,53,54	-1.49	0.14	-5.91	3.30	3.28	-1.46	-1.19	2.72	0.01	-3.25	0.41	0.11	-10.28	-3.98	1.06	-1.54	4.21	**-13.9**
1966	307	1,3,7,11,13,16,20,23,26,31,34,38,40,42,47,50,54	-4.27	-0.12	-11.73	-0.35	8.31	0.25	-3.34	7.68	5.32	-4.22	-0.49	-1.80	-12.36	-4.31	1.06	2.28	4.21	**-13.9**
1967	2294	1,6,9,11,17,18,20,23,26,31,34,38,40,42,46,48,52,53,54	-1.41	-0.38	-4.90	4.73	2.25	-1.46	-1.19	2.88	2.18	-5.53	0.89	0.11	-9.09	-11.89	2.45	2.28	4.21	**-13.9**
1968	577	1,3,7,11,17,21,28,34,35,37,40,43,47,46,48,51	-0.82	-0.64	-1.41	6.07	-2.40	2.82	1.68	2.74	-2.84	-6.83	1.26	2.02	-3.26	-9.58	1.06	-1.54	-2.17	**-13.8**
1969	4101	2,4,7,11,13,16,20,23,27,28,34,35,37,42,46,48,51	-1.00	-0.90	-2.71	7.45	-1.10	-1.46	-0.47	5.10	-0.70	-3.58	0.79	2.02	-6.11	-4.31	-3.11	-1.54	-2.17	**-13.8**
1970	1149	1,3,7,9,10,16,20,23,26,31,34,38,41,44,55	-2.79	-1.15	-6.49	-3.68	7.10	-2.32	-4.77	2.02	3.22	-4.38	-0.12	-1.80	-8.46	2.28	1.06	2.28	4.21	**-13.8**
1971	4962	2,4,7,9,10,16,20,23,27,28,34,38,43,47,46,48,52,53,54	-1.78	-1.15	-6.15	3.84	4.96	-2.32	-1.91	2.33	0.01	-3.02	0.33	0.11	-10.87	2.28	-3.11	-1.54	4.21	**-13.8**
1972	1691	1,6,10,16,18,21,27,26,31,34,35,37,42,46,48,51	-0.56	-0.38	-1.59	3.86	-2.83	1.11	-0.47	-7.02	-2.85	-7.97	1.55	2.02	-3.15	1.95	2.45	2.28	-2.17	**-13.8**
1973	1553	1,6,10,15,23,26,31,34,36,39,41,43,47,49,53,54	-0.57	0.40	-2.08	-4.44	-0.31	-2.32	-3.34	-0.61	-0.76	7.36	-1.58	0.11	-1.92	-6.29	2.45	2.28	-2.17	**-13.8**
1974	1951	1,6,9,11,13,15,23,26,31,34,35,37,40,43,47,46,48,51	-0.16	0.66	-0.19	3.64	-3.73	1.11	-1.19	0.98	-0.52	-5.40	1.11	2.02	-1.78	-12.87	2.45	2.28	-2.17	**-13.8**
1975	2491	1,6,9,11,17,21,28,34,36,39,41,43,47,49,53,54	-0.79	-0.12	-2.43	-0.04	1.25	-0.60	-0.47	1.30	-2.29	5.72	-1.15	0.11	-2.08	-10.90	2.45	-1.54	-2.17	**-13.8**
1976	2448	1,6,9,11,17,21,27,26,31,34,38,43,47,46,48,52,53,54	-1.39	-0.64	-3.76	3.89	2.64	0.25	0.25	0.12	0.04	-7.99	1.32	0.11	-6.63	-10.90	2.45	2.28	4.21	**-13.7**
1977	1128	1,3,7,9,10,16,20,23,26,31,34,35,37,40,43,47,46,48,52,53,54	-1.26	0.40	-5.24	3.52	0.11	-0.60	-1.91	1.25	0.13	-5.19	0.77	0.11	-9.25	2.28	1.06	2.28	-2.17	**-13.7**
1978	1243	1,3,7,9,8,14,30,33,37,40,43,47,49,53,54	-0.19	-1.41	3.93	-1.20	2.73	0.25	3.11	0.74	-14.58	0.81	0.56	2.02	1.10	-8.92	1.06	-1.54	-2.17	**-13.7**
1979	2801	2,4,3,6,10,15,23,26,31,34,36,39,41,40,42,47,50,54	-0.27	1.18	-1.85	-3.75	0.12	-1.46	-2.62	-3.09	1.56	7.96	-1.75	-1.80	-1.41	-6.29	-0.33	2.28	-2.17	**-13.7**
1980	960	1,3,7,9,10,15,23,27,28,34,36,39,41,43,50,54	-0.90	0.40	-2.56	-4.94	0.61	-2.32	-1.91	2.11	0.49	9.60	-2.21	-1.80	-2.65	-4.97	1.06	-1.54	-2.17	**-13.7**

Table F-3: Weighted, Sorted Z-scores for All Routes

		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
1981	3739	2,4,3,6,9,11,17,21,28,34,36,39,41,40,42,47,50,54	-0.49	0.66	-2.20	0.64	1.67	0.25	0.25	-1.18	0.03	6.32	-1.32	-1.80	-1.57	-10.90	-0.33	-1.54	-2.17	**-13.7**
1982	3046	2,4,3,6,10,16,20,23,26,31,34,38,40,42,46,48,52,53,54	-1.51	-0.38	-5.67	3.84	3.77	-2.32	-2.62	-2.48	1.08	-5.21	0.76	0.11	-10.16	0.96	-0.33	2.28	4.21	**-13.7**
1983	4150	2,4,7,11,17,18,20,23,26,31,34,38,40,42,46,48,52,53,54	-1.66	-0.38	-5.02	5.03	2.70	-2.32	-0.47	7.28	2.50	-5.58	0.74	0.11	-9.40	-10.57	-3.11	2.28	4.21	**-13.7**
1984	1175	1,3,7,9,10,16,20,23,27,28,31,33,37,42,46,48,51	-0.77	-0.90	-3.27	5.08	-3.56	-0.60	-0.47	0.54	-2.98	-3.07	0.74	2.02	-6.03	2.28	1.06	-1.54	-2.17	**-13.6**
1985	1756	1,6,10,16,18,21,28,34,36,39,41,43,50,54	-1.12	-0.64	-3.26	-2.35	1.94	-0.60	-1.19	-5.74	-1.07	6.27	-1.51	-1.80	-3.25	1.95	2.45	-1.54	-2.17	**-13.6**
1986	1523	1,6,10,13,17,21,28,34,38,40,42,46,48,51	-0.96	-1.41	-2.38	4.04	0.55	1.97	0.25	-5.55	-2.97	-6.58	1.20	2.02	-4.57	-4.31	2.45	-1.54	4.21	**-13.6**
1987	699	1,3,7,9,10,13,17,18,20,23,27,28,31,33,37,40,43,47,46,48,51	-0.15	0.92	-2.81	5.68	-4.57	1.11	0.25	0.54	-2.98	-2.87	0.83	2.02	-4.93	-3.98	1.06	-1.54	-2.17	**-13.6**
1988	3807	2,4,7,11,13,15,23,26,31,34,35,37,40,43,47,46,48,51	-0.41	0.66	-0.31	3.93	-3.28	0.25	-0.47	5.39	-0.21	-5.45	0.96	2.02	-2.09	-11.56	-3.11	2.28	-2.17	**-13.6**
1989	4347	2,4,7,11,17,21,28,34,36,39,41,43,47,49,53,54	-1.04	-0.12	-2.55	0.25	1.70	-1.46	0.25	5.71	-1.98	5.67	-1.30	0.11	-2.39	-9.58	-3.11	-1.54	-2.17	**-13.6**
1990	204	1,3,7,11,13,16,18,21,27,26,31,34,35,37,42,46,48,52,53,54	-1.47	0.66	-3.63	3.80	0.49	-0.60	0.25	3.45	-0.94	-8.34	1.29	0.11	-6.46	-3.32	1.06	2.28	-2.17	**-13.6**
1991	4304	2,4,7,11,17,21,27,26,31,34,38,43,47,46,48,52,53,54	-1.64	-0.64	-3.88	4.19	3.09	-0.60	0.96	4.52	0.35	-8.04	1.17	0.11	-6.94	-9.58	-3.11	2.28	4.21	**-13.6**
1992	3675	2,4,3,6,9,11,17,21,27,26,31,34,35,37,40,43,47,46,48,51	0.04	1.44	-0.53	6.80	-3.13	1.97	0.96	-2.46	-1.74	-8.03	1.72	2.02	-1.48	-10.90	-0.33	2.28	-2.17	**-13.6**
1993	2221	1,6,9,11,13,16,20,23,26,33,37,42,46,48,51	-0.76	-1.41	-2.31	6.91	-4.36	-0.60	-0.47	0.70	-0.81	-5.49	1.22	2.02	-5.09	-5.63	2.45	2.28	-2.17	**-13.5**
1994	3455	2,4,3,6,9,11,13,16,20,23,26,31,34,36,39,44,55	-3.25	0.14	-0.08	0.53	1.15	-4.03	-5.49	0.87	2.57	7.21	-1.59	-1.80	-3.93	-5.63	-0.33	2.28	-2.17	**-13.5**
1995	1466	1,6,10,13,17,21,27,26,31,34,36,39,41,43,50,54	-0.64	0.40	-2.51	-2.28	-0.32	-0.60	-0.47	-5.74	0.34	4.96	-1.15	-1.80	-1.90	-4.31	2.45	2.28	-2.17	**-13.5**
1996	1214	1,3,7,9,8,14,30,31,34,35,37,40,43,50,54	-0.29	-1.41	4.02	-1.68	4.19	0.25	3.11	-1.34	-11.04	0.97	0.37	0.11	0.89	-8.92	1.06	-1.54	-2.17	**-13.4**
1997	910	1,3,7,9,10,15,23,26,31,34,38,40,42,46,48,52,53,54	-1.53	0.14	-3.98	-0.81	2.10	-1.46	-1.91	3.01	0.50	-5.32	0.49	0.11	-7.38	-4.97	1.06	2.28	4.21	**-13.4**
1998	3592	2,4,3,6,9,11,17,18,20,23,27,28,34,36,39,41,40,42,49,53,54	-0.31	0.92	-3.25	1.62	1.36	-3.18	-1.91	3.66	-0.15	8.96	-1.56	0.11	-3.78	-11.89	-0.33	-1.54	-2.17	**-13.4**
1999	4077	2,4,7,11,13,16,20,23,26,33,37,42,46,48,51	-1.02	-1.41	-2.43	7.20	-3.91	-1.46	0.25	5.10	-0.49	-5.55	1.07	2.02	-5.40	-4.31	-3.11	2.28	-2.17	**-13.4**
2000	4849	2,4,7,9,10,16,18,21,28,34,35,37,40,43,47,46,48,51	-0.59	0.40	-1.93	4.69	-1.14	1.97	0.25	-2.62	-3.92	-6.51	1.16	2.02	-3.54	3.26	-3.11	-1.54	-2.17	**-13.3**
2001	4623	2,4,7,9,10,13,17,21,28,34,36,39,41,40,42,47,50,54	-0.64	0.66	-2.86	-1.40	1.41	0.25	0.25	-1.33	-0.73	6.53	-1.53	-1.80	-2.28	-2.99	-3.11	-1.54	-2.17	**-13.3**
2002	734	1,3,7,9,10,13,17,18,20,23,27,28,34,38,43,47,46,48,52,53,54	-1.48	-0.12	-5.90	3.70	3.50	-1.46	-1.19	2.72	0.01	-3.05	0.41	0.11	-10.25	-3.98	1.06	-1.54	4.21	**-13.3**
2003	2300	1,6,9,11,17,18,20,23,26,31,34,38,43,47,46,48,52,53,54	-1.40	-0.64	-4.89	5.13	2.47	-1.46	-1.19	2.88	2.18	-5.33	0.90	0.11	-9.06	-11.89	2.45	2.28	4.21	**-13.2**
2004	3424	2,4,3,6,9,11,13,16,18,21,28,34,38,40,42,46,48,52,53,54	-1.49	0.66	-4.28	4.65	5.40	-0.60	-0.47	-0.28	-1.38	-6.84	1.04	0.11	-7.46	-4.64	-0.33	-1.54	4.21	**-13.2**
2005	3385	2,4,3,6,9,11,13,16,18,21,27,26,33,37,42,46,48,51	-0.32	0.66	-0.91	6.49	-3.69	0.25	0.96	-2.46	-2.95	-8.12	1.68	2.02	-1.93	-4.64	-0.33	2.28	-2.17	**-13.2**
2006	4559	2,4,7,9,10,13,17,21,27,26,31,34,35,37,40,43,47,46,48,51	-0.11	1.44	-1.19	4.76	-3.40	1.97	0.96	-2.62	-2.51	-7.82	1.52	2.02	-2.19	-2.99	-3.11	2.28	-2.17	**-13.2**
2007	55	1,3,7,11,13,15,23,26,31,34,35,37,42,46,48,51	-0.74	-0.12	-0.52	3.19	-3.74	-0.60	-0.47	5.79	-0.21	-5.68	0.96	2.02	-2.58	-11.56	1.06	2.28	-2.17	**-13.1**
2008	1717	1,6,10,16,18,21,27,26,33,37,40,43,47,46,48,51	-0.36	-0.64	-1.54	4.15	-4.40	2.82	0.25	-7.02	-4.06	-7.67	1.53	2.02	-2.67	1.95	2.45	2.28	-2.17	**-13.1**
2009	3052	2,4,3,6,10,16,20,23,26,31,34,38,43,47,46,48,52,53,54	-1.50	-0.64	-5.65	4.23	3.99	-2.32	-2.62	-2.48	1.08	-5.01	0.76	0.11	-10.13	0.96	-0.33	2.28	4.21	**-13.1**
2010	4156	2,4,7,11,17,18,20,23,26,31,34,38,43,47,46,48,52,53,54	-1.66	-0.64	-5.01	5.42	2.92	-2.32	-0.47	7.28	2.50	-5.38	0.75	0.11	-9.37	-10.57	-3.11	2.28	4.21	**-13.0**
2011	3527	2,4,3,6,9,11,17,18,20,23,26,31,34,35,37,40,43,47,46,48,51	0.03	1.44	-1.66	8.04	-3.30	0.25	-0.47	0.30	0.40	-5.37	1.30	2.02	-3.91	-11.89	-0.33	2.28	-2.17	**-13.0**
2012	4476	2,4,7,9,10,13,17,18,20,23,27,28,34,36,39,41,40,42,49,53,54	-0.46	0.92	-3.91	-0.42	1.10	-3.18	-1.91	3.51	-0.91	9.17	-1.76	0.11	-4.49	-3.98	-3.11	-1.54	-2.17	**-13.0**
2013	1367	1,6,10,13,17,18,20,23,27,28,34,36,39,41,40,42,47,50,54	-0.41	0.14	-3.88	-0.46	0.79	-0.60	-1.91	-2.98	1.07	9.99	-1.86	-1.80	-4.54	-5.30	2.45	-1.54	-2.17	**-13.0**
2014	1529	1,6,10,13,17,21,28,34,38,43,47,46,48,51	-0.96	-1.67	-2.36	4.44	0.77	1.97	0.25	-5.55	-2.97	-6.38	1.20	2.02	-4.54	-4.31	2.45	-1.54	4.21	**-13.0**
2015	1318	1,6,10,13,17,18,20,23,26,31,34,36,39,41,43,50,54	-0.65	0.40	-3.64	-1.05	-0.49	-2.32	-1.91	-2.98	2.49	7.62	-1.57	-1.80	-4.33	-5.30	2.45	2.28	-2.17	**-13.0**
2016	3395	2,4,3,6,9,11,13,16,18,21,28,31,33,37,40,43,47,46,48,51	-0.15	1.44	-1.18	7.03	-2.44	1.97	0.96	-2.46	-4.37	-6.46	1.46	2.02	-2.10	-4.64	-0.33	-1.54	-2.17	**-13.0**
2017	3004	2,4,3,6,10,16,18,21,28,34,36,39,41,40,42,49,53,54	-0.65	0.40	-3.03	-1.33	2.55	-1.46	-1.91	-4.05	-3.40	5.84	-1.26	0.11	-2.67	1.95	-0.33	-1.54	-2.17	**-13.0**
2018	448	1,3,7,11,17,18,20,23,27,28,34,38,40,42,46,48,52,53,54	-1.77	-0.90	-5.46	4.82	3.49	-1.46	-0.47	7.68	1.08	-3.54	0.44	0.11	-10.11	-10.57	1.06	-1.54	4.21	**-12.9**
2019	230	1,3,7,11,13,16,18,21,27,26,33,37,40,43,47,46,48,52,53,54	-1.27	0.40	-3.59	4.09	-1.07	1.11	0.96	3.45	-2.15	-8.04	1.27	0.11	-5.98	-3.32	1.06	2.28	-2.17	**-12.9**
2020	1097	1,3,7,9,10,16,18,21,28,34,35,37,42,46,48,51	-0.92	-0.38	-2.14	3.95	-1.60	1.11	0.25	-2.22	-3.92	-6.73	1.16	2.02	-4.03	3.26	1.06	-1.54	-2.17	**-12.8**
2021	105	1,3,7,11,13,15,23,27,28,34,35,37,40,43,47,46,48,51	-0.52	0.14	-0.75	3.73	-2.49	1.11	-0.47	5.79	-1.62	-3.41	0.66	2.02	-2.80	-11.56	1.06	-1.54	-2.17	**-12.8**
2022	1857	1,6,8,14,30,31,34,35,37,40,41,44,55	1.39	-2.71	9.96	-2.60	3.45	-0.60	1.68	-6.86	-12.41	0.90	0.96	0.11	5.42	-10.24	2.45	-1.54	-2.17	**-12.8**
2023	916	1,3,7,9,10,15,23,26,31,34,38,43,47,46,48,52,53,54	-1.52	-0.12	-3.96	-0.41	2.32	-1.46	-1.91	3.01	0.50	-5.12	0.50	0.11	-7.34	-4.97	1.06	2.28	4.21	**-12.8**
2024	2714	2,4,3,6,10,13,17,21,27,26,31,34,36,39,41,40,42,49,53,54	-0.17	1.44	-2.28	-1.27	0.29	-1.46	-1.19	-4.05	-1.98	4.53	-0.90	0.11	-1.32	-4.31	-0.33	2.28	-2.17	**-12.8**
2025	1844	1,6,10,16,20,23,27,28,34,36,39,41,43,50,54	-1.06	-1.15	-4.34	-1.11	1.77	-2.32	-2.62	-2.98	1.07	9.68	-1.96	-1.80	-5.66	0.96	2.45	-1.54	-2.17	**-12.8**
2026	2019	1,6,9,11,13,15,23,27,28,34,36,39,41,43,47,49,53,54	-0.49	0.66	-1.77	-2.38	1.15	-2.32	-2.62	4.35	-1.07	9.13	-1.74	0.11	-1.62	-12.87	2.45	-1.54	-2.17	**-12.7**
2027	4887	2,4,7,9,10,16,20,23,26,31,34,35,37,42,46,48,51	-0.75	-0.38	-2.78	5.40	-2.56	-1.46	-1.19	0.15	-0.36	-5.36	1.02	2.02	-5.73	2.28	-3.11	2.28	-2.17	**-12.7**
2028	807	1,3,7,9,10,13,17,21,27,26,31,34,35,37,42,46,48,51	-0.44	0.66	-1.40	4.02	-3.85	1.11	0.96	-2.22	-2.51	-8.05	1.52	2.02	-2.67	-2.99	1.06	2.28	-2.17	**-12.7**
2029	3267	2,4,3,6,9,11,13,15,23,27,28,34,36,39,41,40,42,47,50,54	-0.19	1.44	-1.54	-1.70	1.58	-1.46	-1.91	1.87	1.26	9.73	-1.92	-1.80	-1.11	-12.87	-0.33	-1.54	-2.17	**-12.7**
2030	4411	2,4,7,9,10,13,17,18,20,23,26,31,34,35,37,40,43,47,46,48,51	-0.13	1.44	-2.32	5.99	-3.57	0.25	-0.47	0.15	-0.36	-5.16	1.10	2.02	-4.62	-3.98	-3.11	2.28	-2.17	**-12.7**
2031	419	1,3,7,11,17,18,20,23,27,28,31,33,37,40,43,47,46,48,51	-0.43	-0.12	-2.36	7.19	-4.36	1.11	0.96	5.50	-1.90	-3.16	0.86	2.02	-4.75	-10.57	1.06	-1.54	-2.17	**-12.7**
2032	3218	2,4,3,6,9,11,13,15,23,26,31,34,36,39,41,43,50,54	-0.43	1.70	-1.31	-2.28	0.30	-3.18	-1.91	1.87	2.67	7.36	-1.64	-1.80	-0.90	-12.87	-0.33	2.28	-2.17	**-12.6**
2033	3430	2,4,3,6,9,11,13,16,18,21,28,34,38,43,47,46,48,52,53,54	-1.48	0.40	-4.27	5.05	5.62	-0.60	-0.47	-0.28	-1.38	-6.64	1.05	0.11	-7.42	-4.64	-0.33	-1.54	4.21	**-12.6**
2034	4658	2,4,7,9,10,15,23,26,31,34,36,39,41,40,42,49,53,54	-0.50	0.92	-1.98	-4.54	-0.08	-3.18	-2.62	3.80	-0.42	7.11	-1.67	0.11	-1.58	-4.97	-3.11	2.28	-2.17	**-12.6**
2035	1217	1,3,7,9,8,14,30,31,34,35,37,42,47,50,54	-0.26	-1.67	4.04	-1.23	4.44	0.25	3.11	-1.34	-11.04	1.28	0.39	0.11	0.94	-8.92	1.06	-1.54	-2.17	**-12.6**

Table F-3: Weighted, Sorted Z-scores for All Routes

Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
2036	1549	1,6,10,15,23,26,31,34,36,39,41,40,42,47,50,54	-0.44	0.14	-1.94	-4.58	-0.38	-0.60	-2.62	-2.69	1.56	7.93	-1.77	-1.80	-1.63	-6.29	2.45	2.28	-2.17	**-12.6**
2037	3875	2,4,7,11,13,15,23,27,28,34,36,39,41,43,47,49,53,54	-0.74	0.66	-1.89	-2.09	1.60	-3.18	-1.91	8.75	-0.75	9.08	-1.89	0.11	-1.93	-11.56	-3.11	-1.54	-2.17	**-12.6**
2038	2487	1,6,9,11,17,21,28,34,36,39,41,40,42,47,50,54	-0.66	-0.38	-2.29	-0.18	1.17	1.11	0.25	-0.78	0.03	6.29	-1.34	-1.80	-1.79	-10.90	2.45	-1.54	-2.17	**-12.5**
2039	872	1,3,7,9,10,13,17,21,28,34,36,39,41,43,50,54	-1.00	0.40	-3.07	-2.19	0.92	-0.60	0.25	-0.93	-0.73	6.19	-1.54	-1.80	-2.77	-2.99	1.06	-1.54	-2.17	**-12.5**
2040	1794	1,6,10,16,20,23,26,31,34,38,40,42,46,48,52,53,54	-1.68	-1.41	-5.76	3.01	3.27	-1.46	-2.62	-2.08	1.08	-5.24	0.75	0.11	-10.39	0.96	2.45	2.28	4.21	**-12.5**
2041	4937	2,4,7,9,10,16,20,23,27,28,34,35,37,40,43,47,46,48,51	-0.53	-0.12	-3.01	5.93	-1.31	0.25	-1.19	0.15	-1.78	-3.10	0.72	2.02	-5.95	2.28	-3.11	-1.54	-2.17	**-12.5**
2042	2423	1,6,9,11,17,21,27,26,31,34,35,37,40,43,47,46,48,51	-0.13	0.40	-0.62	5.98	-3.64	2.82	0.96	-2.06	-1.74	-8.06	1.71	2.02	-1.71	-10.90	2.45	2.28	-2.17	**-12.4**
2043	2203	1,6,9,11,13,16,20,23,26,31,34,36,39,44,55	-3.42	-0.90	-0.17	-0.29	0.64	-3.18	-5.49	1.27	2.57	7.18	-1.60	-1.80	-4.16	-5.63	2.45	2.28	-2.17	**-12.4**
2044	81	1,3,7,11,13,15,23,26,33,37,40,43,47,46,48,51	-0.54	-0.38	-0.48	3.48	-5.31	1.11	0.25	5.79	-1.41	-5.38	0.95	2.02	-2.09	-11.56	1.06	2.28	-2.17	**-12.4**
2045	3512	2,4,3,6,9,11,13,16,20,23,27,28,34,38,40,42,46,48,52,53,54	-1.43	0.14	-5.36	5.89	5.23	-2.32	-1.91	2.48	0.77	-3.43	0.59	0.11	-9.87	-5.63	-0.33	-1.54	4.21	**-12.4**
2046	219	1,3,7,11,13,16,18,21,27,26,31,34,38,40,42,47,50,54	-4.01	0.92	-10.42	-1.59	8.48	1.97	-1.91	4.92	3.18	-6.88	-0.04	-1.80	-9.41	-3.32	1.06	2.28	4.21	**-12.4**
2047	4343	2,4,7,11,17,21,28,34,36,39,41,40,42,47,50,54	-0.92	-0.38	-2.41	0.11	1.62	0.25	0.96	3.62	0.35	6.24	-1.49	-1.80	-2.10	-9.58	-3.11	-1.54	-2.17	**-12.3**
2048	269	1,3,7,11,13,16,18,21,28,34,36,39,44,55	-3.85	-0.90	0.34	-1.44	2.05	-1.46	-3.34	3.31	-0.67	5.75	-1.61	-1.80	-2.76	-3.32	1.06	-1.54	-2.17	**-12.3**
2049	454	1,3,7,11,17,18,20,23,27,28,34,38,43,47,46,48,52,53,54	-1.76	-1.15	-5.45	5.22	3.71	-1.46	-0.47	7.68	1.08	-3.34	0.45	0.11	-10.07	-10.57	1.06	-1.54	4.21	**-12.3**
2050	1061	1,3,7,9,10,16,18,21,27,26,31,34,38,41,44,55	-2.53	-0.12	-5.18	-4.92	7.27	-0.60	-3.34	-0.75	1.08	-7.04	0.33	-1.80	-5.52	3.26	1.06	2.28	4.21	**-12.3**
2051	2566	2,4,3,6,10,13,17,18,20,23,26,31,34,36,39,41,40,42,49,53,54	-0.18	1.44	-3.41	-0.03	0.12	-3.18	-2.62	-1.29	0.16	7.19	-1.32	0.11	-3.75	-5.30	-0.33	2.28	-2.17	**-12.3**
2052	2340	1,6,9,11,17,18,20,23,27,28,34,36,39,41,40,42,49,53,54	-0.48	-0.12	-3.34	0.80	0.86	-2.32	-1.91	4.06	-0.15	8.93	-1.57	0.11	-4.01	-11.89	2.45	-1.54	-2.17	**-12.3**
2053	3138	2,4,3,6,8,14,30,31,34,38,43,50,54	-0.53	-1.93	3.61	-0.97	8.07	-1.46	2.40	-5.08	-10.09	1.15	0.37	0.11	0.01	-10.24	-0.33	-1.54	4.21	**-12.3**
2054	4279	2,4,7,11,17,21,27,26,31,34,35,37,40,43,47,46,48,51	-0.39	0.40	-0.74	6.27	-3.19	1.97	1.68	2.34	-1.43	-8.11	1.56	2.02	-2.02	-9.58	-3.11	2.28	-2.17	**-12.2**
2055	4059	2,4,7,11,13,16,20,23,26,31,34,36,39,44,55	-3.68	-0.90	-0.29	0.01	1.09	-4.03	-4.77	5.68	2.89	7.13	-1.75	-1.80	-4.47	-4.31	-3.11	2.28	-2.17	**-12.2**
2056	1040	1,3,7,9,10,16,18,21,27,26,31,34,35,37,40,43,47,46,48,52,53,54	-1.00	1.44	-3.93	2.28	0.28	1.11	-0.47	-1.51	-2.02	-7.85	1.22	0.11	-6.30	3.26	1.06	2.28	-2.17	**-12.2**
2057	4719	2,4,7,9,10,15,23,27,28,34,38,40,42,46,48,51	-0.79	-0.38	-1.75	1.60	0.68	-0.60	-1.19	1.90	-1.41	-3.22	0.44	2.02	-4.08	-4.97	-3.11	-1.54	4.21	**-12.2**
2058	659	1,3,7,9,10,13,17,18,20,23,26,31,34,35,37,42,46,48,51	-0.45	0.66	-2.53	5.26	-4.02	-0.60	-0.47	0.54	-0.36	-5.39	1.10	2.02	-5.10	-3.98	1.06	2.28	-2.17	**-12.2**
2059	2958	2,4,3,6,10,16,18,21,27,26,31,34,38,40,42,46,48,52,53,54	-1.24	0.66	-4.36	2.60	3.94	-0.60	-1.19	-5.24	-1.07	-7.87	1.21	0.11	-7.22	1.95	-0.33	2.28	4.21	**-12.2**
2060	3483	2,4,3,6,9,11,13,16,20,23,27,28,31,33,37,40,43,47,46,48,51	-0.08	0.92	-2.25	8.26	-2.61	0.25	-0.47	0.30	-2.22	-3.05	1.01	2.02	-4.51	-5.63	-0.33	-1.54	-2.17	**-12.1**
2061	2172	1,6,9,11,13,16,18,21,28,34,38,40,42,46,48,52,53,54	-1.66	-0.38	-4.37	3.83	4.90	0.25	-0.47	0.12	-1.38	-6.87	1.03	0.11	-7.68	-4.64	2.45	-1.54	4.21	**-12.1**
2062	3092	2,4,3,6,10,16,20,23,27,28,34,36,39,41,40,42,49,53,54	-0.59	-0.12	-4.11	-0.10	2.38	-3.18	-3.34	-1.29	-1.25	9.25	-1.71	0.11	-5.08	0.96	-0.33	-1.54	-2.17	**-12.1**
2063	4196	2,4,7,11,17,18,20,23,27,28,34,36,39,41,40,42,49,53,54	-0.74	-0.12	-3.46	1.09	1.30	-3.18	-1.19	8.47	0.17	8.88	-1.73	0.11	-4.32	-10.57	-3.11	-1.54	-2.17	**-12.1**
2064	2133	1,6,9,11,13,16,18,21,27,26,33,37,42,46,48,51	-0.50	-0.38	-1.00	5.67	-4.19	1.11	0.96	-2.06	-2.95	-8.15	1.67	2.02	-2.15	-4.64	2.45	2.28	-2.17	**-12.0**
2065	3367	2,4,3,6,9,11,13,16,18,21,27,26,31,34,36,39,44,55	-2.98	1.18	1.23	-0.70	1.32	-2.32	-4.06	-1.89	0.43	4.55	-1.14	-1.80	-0.99	-4.64	-0.33	2.28	-2.17	**-12.0**
2066	3595	2,4,3,6,9,11,17,18,20,23,27,28,34,36,39,41,43,47,49,53,54	-0.30	1.44	-3.24	2.02	1.58	-3.18	-1.91	3.66	-0.15	9.16	-1.56	0.11	-3.75	-11.89	-0.33	-1.54	-2.17	**-12.0**
2067	4913	2,4,7,9,10,16,20,23,26,33,37,40,43,47,46,48,51	-0.55	-0.64	-2.73	5.68	-4.13	0.25	-0.47	0.15	-1.57	-5.06	1.00	2.02	-5.24	2.28	-3.11	2.28	-2.17	**-12.0**
2068	3146	2,4,3,6,8,14,30,33,37,42,46,48,52,53,54	2.23	-1.93	10.45	4.77	-1.46	-2.32	5.26	-6.55	-15.42	0.10	1.69	2.02	3.46	-10.24	-0.33	-1.54	4.21	**-12.0**
2069	833	1,3,7,9,10,13,17,21,27,26,33,37,40,43,47,46,48,51	-0.24	0.40	-1.35	4.31	-5.42	2.82	1.68	-2.22	-3.71	-7.75	1.50	2.02	-2.19	-2.99	1.06	2.28	-2.17	**-12.0**
2070	1185	1,3,7,9,10,16,20,23,27,28,34,35,37,42,46,48,51	-0.86	-0.90	-3.22	5.19	-1.77	-0.60	-1.19	0.54	-1.78	-3.32	0.72	2.02	-6.43	2.28	1.06	-1.54	-2.17	**-12.0**
2071	709	1,3,7,9,10,13,17,18,20,23,27,28,34,35,37,40,43,47,46,48,51	-0.23	0.92	-2.76	5.79	-2.78	1.11	-0.47	0.54	-1.78	-3.12	0.80	2.02	-5.33	-3.98	1.06	-1.54	-2.17	**-11.9**
2072	1800	1,6,10,16,20,23,26,31,34,38,43,47,46,48,52,53,54	-1.68	-1.67	-5.74	3.41	3.49	-1.46	-2.62	-2.08	1.08	-5.04	0.75	0.11	-10.35	0.96	2.45	2.28	4.21	**-11.9**
2073	2275	1,6,9,11,17,18,20,23,26,31,34,35,37,40,43,47,46,48,51	-0.15	0.40	-1.75	7.21	-3.81	1.11	-0.47	0.70	0.40	-5.40	1.29	2.02	-4.14	-11.89	2.45	2.28	-2.17	**-11.9**
2074	4028	2,4,7,11,13,16,18,21,28,34,38,40,42,46,48,52,53,54	-1.92	-0.38	-4.49	4.13	5.35	-0.60	0.25	4.52	-1.06	-6.92	0.87	0.11	-7.99	-3.32	-3.11	-1.54	4.21	**-11.9**
2075	2627	2,4,3,6,10,13,17,18,20,23,27,28,34,38,40,42,46,48,51	-0.48	0.14	-3.18	6.11	0.88	-0.60	-1.19	-3.19	-0.83	-3.14	0.79	2.02	-6.24	-5.30	-0.33	-1.54	4.21	**-11.9**
2076	956	1,3,7,9,10,15,23,27,28,34,36,39,41,40,42,49,53,54	-0.61	0.40	-2.42	-4.74	0.71	-2.32	-2.62	4.20	-1.83	9.14	-1.97	0.11	-2.29	-4.97	1.06	-1.54	-2.17	**-11.9**
2077	3989	2,4,7,11,13,16,18,21,27,26,33,37,42,46,48,51	-0.76	-0.38	-1.12	5.97	-3.74	0.25	1.68	2.34	-2.64	-8.21	1.52	2.02	-2.46	-3.32	-3.11	2.28	-2.17	**-11.9**
2078	2143	1,6,9,11,13,16,18,21,28,31,33,37,40,43,47,46,48,51	-0.32	0.40	-1.27	6.20	-2.95	2.82	0.96	-2.06	-4.37	-6.49	1.45	2.02	-2.33	-4.64	2.45	-1.54	-2.17	**-11.8**
2079	1752	1,6,10,16,18,21,28,34,36,39,41,40,42,49,53,54	-0.82	-0.64	-3.12	-2.16	2.05	-0.60	-1.91	-3.65	-3.40	5.81	-1.28	0.11	-2.90	1.95	2.45	-1.54	-2.17	**-11.8**
2080	3518	2,4,3,6,9,11,13,16,20,23,27,28,34,38,43,47,46,48,52,53,54	-1.42	-0.12	-5.34	6.29	5.45	-2.32	-1.91	2.48	0.77	-3.23	0.60	0.11	-9.83	-5.63	-0.33	-1.54	4.21	**-11.8**
2081	527	1,3,7,11,17,21,27,26,31,34,35,37,42,46,48,51	-0.72	-0.38	-0.95	5.53	-3.64	1.11	1.68	2.74	-1.43	-8.34	1.56	2.02	-2.50	-9.58	1.06	2.28	-2.17	**-11.7**
2082	3027	2,4,3,6,10,16,20,23,26,31,34,35,37,40,43,47,46,48,51	-0.25	0.40	-2.51	6.32	-2.28	0.25	-1.91	-4.66	-0.71	-5.08	1.15	2.02	-5.21	0.96	-0.33	2.28	-2.17	**-11.7**
2083	4131	2,4,7,11,17,18,20,23,26,31,34,35,37,40,43,47,46,48,51	-0.41	0.40	-1.87	7.51	-3.36	0.25	0.25	5.10	0.72	-5.45	1.14	2.02	-4.45	-10.57	-3.11	2.28	-2.17	**-11.7**
2084	1462	1,6,10,13,17,21,27,26,31,34,36,39,41,40,42,49,53,54	-0.35	0.40	-2.37	-2.09	-0.21	-0.60	-1.19	-3.65	-1.98	4.50	-0.92	0.11	-1.54	-4.31	2.45	2.28	-2.17	**-11.7**
2085	4479	2,4,7,9,10,13,17,18,20,23,27,28,34,36,39,41,43,47,49,53,54	-0.46	1.44	-3.90	-0.02	1.32	-3.18	-1.91	3.51	-0.91	9.37	-1.76	0.11	-4.46	-3.98	-3.11	-1.54	-2.17	**-11.6**
2086	3999	2,4,7,11,13,16,18,21,28,31,33,37,40,43,47,46,48,51	-0.58	0.40	-1.39	6.50	-2.50	1.97	1.68	2.34	-4.05	-6.54	1.30	2.02	-2.64	-3.32	-3.11	-1.54	-2.17	**-11.6**
2087	592	1,3,7,11,17,21,28,34,36,39,41,43,50,54	-1.28	-0.64	-2.62	-0.68	1.13	-0.60	0.96	4.02	0.35	5.90	-1.51	-1.80	-2.60	-9.58	1.06	-1.54	-2.17	**-11.6**
2088	4725	2,4,7,9,10,15,23,27,28,34,38,43,47,46,48,51	-0.79	-0.64	-1.73	2.00	0.90	-0.60	-1.19	1.90	-1.41	-3.02	0.45	2.02	-4.04	-4.97	-3.11	-1.54	4.21	**-11.6**
2089	3007	2,4,3,6,10,16,18,21,28,34,36,39,41,43,47,49,53,54	-0.64	0.92	-3.02	-0.94	2.77	-1.46	-1.91	-4.05	-3.40	6.04	-1.26	0.11	-2.64	1.95	-0.33	-1.54	-2.17	**-11.6**
2090	2964	2,4,3,6,10,16,18,21,27,26,31,34,38,43,47,46,48,52,53,54	-1.24	0.40	-4.35	3.00	4.16	-0.60	-1.19	-5.24	-1.07	-7.67	1.21	0.11	-7.18	1.95	-0.33	2.28	4.21	**-11.5**

Table F-3: Weighted, Sorted Z-scores for All Routes

Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
2091	1161	1,3,7,9,10,16,20,23,26,33,37,42,46,48,51	-0.88	-1.41	-2.94	4.94	-4.58	-0.60	-0.47	0.54	-1.57	-5.29	1.00	2.02	-5.73	2.28	1.06	2.28	-2.17	**-11.5**
2092	2015	1,6,9,11,13,15,23,27,28,34,36,39,41,40,42,47,50,54	-0.36	0.40	-1.63	-2.52	1.07	-0.60	-1.91	2.27	1.26	9.70	-1.93	-1.80	-1.33	-12.87	2.45	-1.54	-2.17	**-11.5**
2093	1966	1,6,9,11,13,15,23,26,31,34,36,39,41,43,50,54	-0.61	0.66	-1.40	-3.11	-0.20	-2.32	-1.91	2.27	2.67	7.33	-1.65	-1.80	-1.12	-12.87	2.45	2.28	-2.17	**-11.5**
2094	891	1,3,7,9,10,15,23,26,31,34,35,37,40,43,47,46,48,51	-0.27	0.92	-0.82	1.67	-3.95	1.11	-1.19	0.83	-1.28	-5.19	0.89	2.02	-2.42	-4.97	1.06	2.28	-2.17	**-11.5**
2095	2178	1,6,9,11,13,16,18,21,28,34,38,43,47,46,48,52,53,54	-1.66	-0.64	-4.36	4.23	5.12	0.25	-0.47	0.12	-1.38	-6.67	1.03	0.11	-7.65	-4.64	2.45	-1.54	4.21	**-11.5**
2096	357	1,3,7,11,13,16,20,23,27,28,34,36,39,44,55	-3.79	-1.41	-0.73	-0.20	1.88	-3.18	-4.77	6.08	1.47	9.16	-2.05	-1.80	-5.17	-4.31	1.06	-1.54	-2.17	**-11.5**
2097	685	1,3,7,9,10,13,17,18,20,23,26,33,37,40,43,47,46,48,51	-0.25	0.40	-2.48	5.54	-5.59	1.11	0.25	0.54	-1.57	-5.09	1.08	2.02	-4.62	-3.98	1.06	2.28	-2.17	**-11.5**
2098	2809	2,4,3,6,10,15,23,26,31,34,38,40,42,46,48,51	-0.52	0.14	-1.25	1.99	-0.29	-0.60	-1.91	-2.90	-0.33	-5.20	0.88	2.02	-3.33	-6.29	-0.33	2.28	4.21	**-11.4**
2099	3747	2,4,3,6,9,11,17,21,28,34,38,40,42,46,48,51	-0.74	-0.38	-1.60	6.38	1.26	1.11	0.96	-0.99	-1.86	-6.84	1.31	2.02	-3.50	-10.90	-0.33	-1.54	4.21	**-11.4**
2100	2717	2,4,3,6,10,13,17,21,27,26,31,34,36,39,41,43,47,49,53,54	-0.16	1.96	-2.27	-0.87	0.51	-1.46	-1.19	-4.05	-1.98	4.72	-0.90	0.11	-1.28	-4.31	-0.33	2.28	-2.17	**-11.4**
2101	3871	2,4,7,11,13,15,23,27,28,34,36,39,41,40,42,47,50,54	-0.62	0.40	-1.75	-2.23	1.52	-1.46	-1.19	6.67	1.57	9.65	-2.08	-1.80	-1.64	-11.56	-3.11	-1.54	-2.17	**-11.3**
2102	3822	2,4,7,11,13,15,23,26,31,34,36,39,41,43,50,54	-0.87	0.66	-1.52	-2.81	0.25	-3.18	-1.19	6.67	2.99	7.28	-1.80	-1.80	-1.43	-11.56	-3.11	2.28	-2.17	**-11.3**
2103	4034	2,4,7,11,13,16,18,21,28,34,38,43,47,46,48,52,53,54	-1.92	-0.64	-4.48	4.52	5.57	-0.60	0.25	4.52	-1.06	-6.73	0.88	0.11	-7.96	-3.32	-3.11	-1.54	4.21	**-11.3**
2104	3405	2,4,3,6,9,11,13,16,18,21,28,34,35,37,40,43,47,46,48,51	-0.23	1.44	-1.13	7.14	-0.65	1.97	0.25	-2.46	-3.16	-6.71	1.43	2.02	-2.50	-4.64	-0.33	-1.54	-2.17	**-11.3**
2105	3690	2,4,3,6,9,11,17,21,27,26,31,34,36,39,41,43,50,54	-0.41	1.44	-1.73	0.05	0.40	-1.46	0.25	-1.18	1.45	4.70	-1.04	-1.80	-0.82	-10.90	-0.33	2.28	-2.17	**-11.3**
2106	2633	2,4,3,6,10,13,17,18,20,23,27,28,34,38,43,47,46,48,51	-0.47	-0.12	-3.17	6.50	1.10	-0.60	-1.19	-3.19	-0.83	-2.94	0.80	2.02	-6.21	-5.30	-0.33	-1.54	4.21	**-11.3**
2107	2260	1,6,9,11,13,16,20,23,27,28,34,38,40,42,46,48,52,53,54	-1.60	-0.90	-5.45	5.07	4.73	-1.46	-1.91	2.88	0.77	-3.46	0.58	0.11	-10.09	-5.63	2.45	-1.54	4.21	**-11.2**
2108	379	1,3,7,11,17,18,20,23,26,31,34,35,37,42,46,48,51	-0.73	-0.38	-2.08	6.77	-3.82	-0.60	0.25	5.50	0.72	-5.68	1.14	2.02	-4.93	-10.57	1.06	2.28	-2.17	**-11.2**
2109	4799	2,4,7,9,10,16,18,21,27,26,31,34,35,37,42,46,48,51	-0.48	0.66	-1.47	4.16	-2.39	0.25	0.25	-2.62	-2.51	-8.02	1.46	2.02	-2.78	3.26	-3.11	2.28	2.28	**-11.2**
2110	4661	2,4,7,9,10,15,23,26,31,34,36,39,41,43,47,49,53,54	-0.49	1.44	-1.96	-4.14	0.14	-3.18	-2.62	3.80	-0.42	7.30	-1.67	0.11	-1.55	-4.97	-3.11	2.28	-2.17	**-11.2**
2111	1314	1,6,10,13,17,18,20,23,26,31,34,36,39,41,40,42,49,53,54	-0.36	0.40	-3.50	-0.85	-0.38	-2.32	-2.62	-0.89	0.16	7.16	-1.34	0.11	-3.97	-5.30	2.45	2.28	-2.17	**-11.2**
2112	247	1,3,7,11,13,16,18,21,28,31,33,37,42,46,48,51	-0.91	-0.38	-1.59	5.76	-2.95	1.11	1.68	2.74	-4.05	-6.77	1.29	2.02	-3.12	-3.32	1.06	-1.54	-2.17	**-11.1**
2113	1886	1,6,8,14,30,31,34,38,43,50,54	-0.71	-2.97	3.52	-1.79	7.57	-0.60	2.40	-4.68	-10.09	1.12	0.35	0.11	-0.21	-10.24	2.45	-1.54	4.21	**-11.1**
2114	4864	2,4,7,9,10,16,18,21,28,34,36,39,41,43,50,54	-1.04	0.40	-3.14	-2.05	2.39	-1.46	-0.47	-1.33	-0.73	6.22	-1.60	-1.80	-2.88	3.26	-3.11	-1.54	-2.17	**-11.1**
2115	4116	2,4,7,11,13,16,20,23,27,28,34,38,40,42,46,48,52,53,54	-1.86	-0.90	-5.57	5.36	5.18	-2.32	-1.19	7.28	1.08	-3.51	0.43	0.11	-10.40	-4.31	-3.11	-1.54	4.21	**-11.0**
2116	553	1,3,7,11,17,21,27,26,33,37,40,43,47,46,48,51	-0.52	-0.64	-0.90	5.82	-5.21	2.82	2.40	2.74	-2.64	-8.04	1.54	2.02	-2.02	-9.58	1.06	2.28	-2.17	**-11.0**
2117	4631	2,4,7,9,10,13,17,21,28,34,38,40,42,46,48,51	-0.89	-0.38	-2.26	4.34	1.00	1.11	0.96	-1.15	-2.63	-6.63	1.11	2.02	-4.21	-2.99	-3.11	-1.54	4.21	**-11.0**
2118	1706	1,6,10,16,18,21,27,26,31,34,38,40,42,46,48,52,53,54	-1.42	-0.38	-4.45	1.78	3.44	0.25	-1.19	-4.84	-1.07	-7.90	1.19	0.11	-7.44	1.95	2.45	2.28	4.21	**-11.0**
2119	429	1,3,7,11,17,18,20,23,27,28,34,35,37,40,43,47,46,48,51	-0.51	-0.12	-2.31	7.30	-2.57	1.11	0.25	5.50	-0.70	-3.41	0.84	2.02	-5.15	-10.57	1.06	-1.54	-2.17	**-11.0**
2120	2231	1,6,9,11,13,16,20,23,27,28,31,33,37,40,43,47,46,48,51	-0.26	-0.12	-2.34	7.44	-3.12	1.11	-0.47	0.70	-2.22	-3.08	1.00	2.02	-4.73	-5.63	2.45	-1.54	-2.17	**-11.0**
2121	1840	1,6,10,16,20,23,27,28,34,36,39,41,40,42,49,53,54	-0.76	-1.15	-4.19	-0.92	1.88	-2.32	-3.34	-0.89	-1.25	9.22	-1.72	0.11	-5.30	0.96	2.45	-1.54	-2.17	**-11.0**
2122	2115	1,6,9,11,13,16,18,21,27,26,31,34,36,39,44,55	-3.16	0.14	1.14	-1.53	0.82	-1.46	-4.06	-1.49	0.43	4.52	-1.16	-1.80	-1.21	-4.64	2.45	2.28	-2.17	**-10.9**
2123	4574	2,4,7,9,10,13,17,21,27,26,31,34,36,39,41,43,50,54	-0.56	1.44	-2.39	-1.99	0.13	-1.46	0.25	-1.33	0.69	4.90	-1.24	-1.80	-1.53	-2.99	-3.11	2.28	-2.17	**-10.9**
2124	2569	2,4,3,6,10,13,17,18,20,23,26,31,34,36,39,41,43,47,49,53,54	-0.18	1.96	-3.40	0.37	0.34	-3.18	-2.62	-1.29	0.16	7.38	-1.32	0.11	-3.71	-5.30	-0.33	2.28	-2.17	**-10.9**
2125	2343	1,6,9,11,17,18,20,23,27,28,34,36,39,41,43,47,49,53,54	-0.48	0.40	-3.33	1.19	1.08	-2.32	-1.91	4.06	-0.15	9.13	-1.57	0.11	-3.97	-11.89	2.45	-1.54	-2.17	**-10.9**
2126	1894	1,6,8,14,30,33,37,42,46,48,52,53,54	2.05	-2.97	10.36	3.94	-1.96	-1.46	5.26	-6.15	-15.42	0.07	1.68	2.02	3.23	-10.24	2.45	-1.54	-2.17	**-10.8**
2127	3214	2,4,3,6,9,11,13,15,23,26,31,34,36,39,41,40,42,49,53,54	-0.14	1.70	-1.17	-2.09	0.41	-3.18	-2.62	3.95	0.35	6.90	-1.40	0.11	-0.55	-12.87	-0.33	2.28	-2.17	**-10.8**
2128	2815	2,4,3,6,10,15,23,26,31,34,38,43,47,46,48,51	-0.51	-0.12	-1.24	2.39	-0.07	-0.60	-1.91	-2.90	-0.33	-5.01	0.88	2.02	-3.30	-6.29	-0.33	2.28	4.21	**-10.8**
2129	3591	2,4,3,6,9,11,17,18,20,23,27,28,34,36,39,41,40,42,47,50,54	-0.18	1.18	-3.10	1.88	1.50	-1.46	-1.19	1.58	2.18	9.73	-1.74	-1.80	-3.46	-11.89	-0.33	-1.54	-2.17	**-10.8**
2130	3753	2,4,3,6,9,11,17,21,28,34,38,43,47,46,48,51	-0.73	-0.64	-1.58	6.78	1.48	1.11	0.96	-0.99	-1.86	-6.64	1.31	2.02	-3.46	-10.90	-0.33	-1.54	4.21	**-10.8**
2131	3542	2,4,3,6,9,11,17,18,20,23,26,31,34,36,39,41,43,50,54	-0.43	1.44	-2.86	1.29	0.23	-3.18	-1.19	1.58	3.59	7.36	-1.46	-1.80	-3.25	-11.89	-0.33	2.28	-2.17	**-10.8**
2132	4087	2,4,7,11,13,16,20,23,27,28,31,33,37,40,43,47,46,48,51	-0.52	-0.12	-2.46	7.74	-2.67	0.25	0.25	5.10	-1.90	-3.13	0.85	2.02	-5.04	-4.31	-3.11	-1.54	-2.17	**-10.8**
2133	4965	2,4,7,9,8,14,30,31,34,35,37,40,41,44,55	1.47	-2.19	10.08	-2.30	3.90	-1.46	2.40	-2.45	-12.06	0.85	0.87	0.11	5.79	-8.92	-3.11	-1.54	-2.17	**-10.8**
2134	1375	1,6,10,13,17,18,20,23,27,28,34,38,40,42,46,48,51	-0.65	-0.90	-3.27	5.28	0.38	0.25	-1.19	-2.79	-0.83	-3.17	0.78	2.02	-6.47	-5.30	2.45	-1.54	4.21	**-10.7**
2135	3971	2,4,7,11,13,16,18,21,27,26,31,34,36,39,44,55	-3.42	0.14	1.02	-1.23	1.26	-2.32	-3.34	2.91	0.74	4.47	-1.31	-1.80	-1.52	-3.32	-3.11	2.28	-2.17	**-10.7**
2136	868	1,3,7,9,10,13,17,21,28,34,36,39,41,40,42,49,53,54	-0.70	0.40	-2.93	-2.00	1.03	-0.60	-0.47	1.15	-3.05	5.73	-1.31	0.11	-2.42	-2.99	1.06	-1.54	-2.17	**-10.7**
2137	3095	2,4,3,6,10,16,20,23,27,28,34,36,39,41,43,47,49,53,54	-0.58	0.40	-4.09	0.30	2.60	-3.18	-3.34	-1.29	-1.25	9.45	-1.70	0.11	-5.04	0.96	-0.33	-1.54	-2.17	**-10.7**
2138	4199	2,4,7,11,17,18,20,23,27,28,34,36,39,41,43,47,49,53,54	-0.74	0.40	-3.45	1.49	1.52	-3.18	-1.19	8.47	0.17	9.08	-1.72	0.11	-4.28	-10.57	-3.11	-1.54	-2.17	**-10.7**
2139	3443	2,4,3,6,9,11,13,16,20,23,26,31,34,35,37,42,46,48,51	-0.39	0.66	-1.97	7.84	-2.07	-1.46	-1.19	0.30	0.40	-5.57	1.29	2.02	-4.69	-5.63	-0.33	2.28	-2.17	**-10.7**
2140	2266	1,6,9,11,13,16,20,23,27,28,34,38,43,47,46,48,52,53,54	-1.60	-1.15	-5.43	5.46	4.95	-1.46	-1.91	2.88	0.77	-3.26	0.59	0.11	-10.06	-5.63	2.45	-1.54	4.21	**-10.6**
2141	1775	1,6,10,16,20,23,26,31,34,35,37,40,43,47,46,48,51	-0.43	-0.64	-2.60	5.50	-2.79	1.11	-1.91	-4.26	-0.71	-5.11	1.14	2.02	-5.43	0.96	2.45	2.28	-2.17	**-10.6**
2142	120	1,3,7,11,13,15,23,27,28,34,36,39,41,43,50,54	-0.98	0.14	-1.96	-3.02	1.04	-2.32	-1.19	7.07	1.57	9.31	-2.10	-1.80	-2.14	-11.56	1.06	-1.54	-2.17	**-10.6**
2143	405	1,3,7,11,17,18,20,23,26,33,37,40,43,47,46,48,51	-0.53	-0.64	-2.03	7.06	-5.38	1.11	0.96	5.50	-0.49	-5.38	1.12	2.02	-4.45	-10.57	1.06	2.28	-2.17	**-10.5**
2144	4825	2,4,7,9,10,16,18,21,27,26,33,37,40,43,47,46,48,51	-0.28	0.40	-1.42	4.45	-3.96	1.97	0.96	-2.62	-3.71	-7.72	1.45	2.02	-2.30	3.26	-3.11	2.28	-2.17	**-10.5**
2145	959	1,3,7,9,10,15,23,27,28,34,36,39,41,43,47,49,53,54	-0.60	0.92	-2.40	-4.35	0.93	-2.32	-2.62	4.20	-1.83	9.34	-1.97	0.11	-2.25	-4.97	1.06	-1.54	-2.17	**-10.5**

		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
2146	309	1,3,7,11,13,16,20,23,26,31,34,38,41,44,55	-2.87	-1.15	-5.89	-1.76	7.53	-2.32	-4.06	6.97	4.30	-4.67	-0.01	-1.80	-7.96	-4.31	1.06	2.28	4.21	**-10.4**
2147	4122	2,4,7,11,13,16,20,23,27,28,34,38,43,47,46,48,52,53,54	-1.85	-1.15	-5.55	5.76	5.39	-2.32	-1.19	7.28	1.08	-3.31	0.43	0.11	-10.37	-4.31	-3.11	-1.54	4.21	**-10.4**
2148	3493	2,4,3,6,9,11,13,16,20,23,27,28,34,35,37,40,43,47,46,48,51	-0.17	0.92	-2.20	8.37	-0.82	0.25	-1.19	0.30	-1.01	-3.30	0.99	2.02	-4.91	-5.63	-0.33	-1.54	-2.17	**-10.4**
2149	1755	1,6,10,16,18,21,28,34,36,39,41,43,47,49,53,54	-0.82	-0.12	-3.11	-1.76	2.27	-0.60	-1.91	-3.65	-3.40	6.01	-1.27	0.11	-2.86	1.95	2.45	-1.54	-2.17	**-10.4**
2150	4475	2,4,7,9,10,13,17,18,20,23,27,28,34,36,39,41,40,42,47,50,54	-0.33	1.18	-3.76	-0.16	1.24	-1.46	-1.19	1.43	1.42	9.94	-1.94	-1.80	-4.17	-3.98	-3.11	-1.54	-2.17	**-10.4**
2151	4637	2,4,7,9,10,13,17,21,28,34,38,43,47,46,48,51	-0.88	-0.64	-2.24	4.74	1.22	1.11	0.96	-1.15	-2.63	-6.44	1.11	2.02	-4.17	-2.99	-3.11	-1.54	4.21	**-10.4**
2152	1712	1,6,10,16,18,21,27,26,31,34,38,43,47,46,48,52,53,54	-1.41	-0.64	-4.43	2.17	3.66	0.25	-1.19	-4.84	-1.07	-7.70	1.20	0.11	-7.41	1.95	2.45	2.28	4.21	**-10.4**
2153	3275	2,4,3,6,9,11,13,15,23,27,28,34,38,40,42,46,48,51	-0.44	0.40	-0.94	4.04	1.17	-0.60	-1.19	2.05	-0.64	-3.43	0.72	2.02	-3.04	-12.87	-0.33	-1.54	4.21	**-10.4**
2154	4426	2,4,7,9,10,13,17,18,20,23,26,31,34,36,39,41,43,50,54	-0.58	1.44	-3.52	-0.75	-0.04	-3.18	-1.19	1.43	2.83	7.56	-1.66	-1.80	-3.96	-3.98	-3.11	2.28	-2.17	**-10.4**
2155	1143	1,3,7,9,10,16,20,23,26,31,34,36,39,44,55	-3.54	-0.90	-0.80	-2.25	0.42	-3.18	-5.49	1.12	1.81	7.39	-1.83	-1.80	-4.79	2.28	1.06	2.28	-2.17	**-10.4**
2156	288	1,3,7,11,13,16,20,23,26,31,34,35,37,40,43,47,46,48,52,53,54	-1.34	0.40	-4.64	5.44	0.54	-0.60	-1.19	6.21	1.21	-5.48	0.88	0.11	-8.74	-4.31	1.06	2.28	-2.17	**-10.4**
2157	3003	2,4,3,6,10,16,18,21,28,34,36,39,41,40,42,47,50,54	-0.52	0.66	-2.88	-1.08	2.69	0.25	-1.19	-6.14	-1.07	6.61	-1.45	-1.80	-2.35	1.95	-0.33	-1.54	-2.17	**-10.3**
2158	70	1,3,7,11,13,15,23,26,31,34,38,40,42,46,48,52,53,54	-1.60	-0.12	-3.38	1.11	2.53	-1.46	-1.19	7.97	1.58	-5.61	0.60	0.11	-6.87	-11.56	1.06	2.28	4.21	**-10.3**
2159	1557	1,6,10,15,23,26,31,34,38,40,42,46,48,51	-0.69	-0.90	-1.34	1.17	-0.80	0.25	-1.91	-2.50	-0.33	-5.23	0.87	2.02	-3.56	-6.29	2.45	2.28	4.21	**-10.3**
2160	335	1,3,7,11,13,16,20,23,27,28,31,33,37,42,46,48,51	-0.85	-0.90	-2.67	7.00	-3.12	-0.60	0.25	5.50	-1.90	-3.36	0.85	2.02	-5.53	-4.31	1.06	-1.54	-2.17	**-10.3**
2161	2495	1,6,9,11,17,21,28,34,38,40,42,46,48,51	-0.91	-1.41	-1.69	5.56	0.76	1.97	0.96	-0.59	-1.86	-6.87	1.30	2.02	-3.72	-10.90	2.45	-1.54	4.21	**-10.3**
2162	1465	1,6,10,13,17,21,27,26,31,34,36,39,41,43,47,49,53,54	-0.34	0.92	-2.36	-1.69	0.01	-0.60	-1.19	-3.65	-1.98	4.69	-0.91	0.11	-1.51	-4.31	2.45	2.28	-2.17	**-10.3**
2163	1213	1,3,7,9,8,14,30,31,34,35,37,40,43,47,49,53,54	0.01	-0.90	4.18	-1.09	4.52	0.25	2.40	0.74	-13.37	0.71	0.61	2.02	1.28	-8.92	1.06	-1.54	-2.17	**-10.2**
2164	2939	2,4,3,6,10,16,18,21,27,26,31,34,35,37,40,43,47,46,48,51	0.01	1.44	-1.20	5.08	-2.11	1.97	-0.47	-7.42	-2.85	-7.74	1.60	2.02	-2.26	1.95	-0.33	2.28	-2.17	**-10.2**
2165	4952	2,4,7,9,10,16,20,23,27,28,34,36,39,41,43,50,54	-0.98	-0.12	-4.22	-0.82	2.22	-3.18	-1.91	1.43	1.42	9.63	-2.05	-1.80	-5.29	2.28	-3.11	-1.54	-2.17	**-10.2**
2166	2713	2,4,3,6,10,13,17,21,27,26,31,34,36,39,41,40,42,47,50,54	-0.04	1.70	-2.13	-1.01	0.44	0.25	-0.47	-6.14	0.34	5.29	-1.09	-1.80	-1.00	-4.31	-0.33	2.28	-2.17	**-10.2**
2167	2153	1,6,9,11,13,16,18,21,28,34,35,37,40,43,47,46,48,51	-0.41	0.40	-1.22	6.31	-1.16	2.82	0.25	-2.06	-3.16	-6.74	1.42	2.02	-2.73	-4.64	2.45	-1.54	-2.17	**-10.2**
2168	2438	1,6,9,11,17,21,27,26,31,34,36,39,41,43,50,54	-0.59	0.40	-1.82	-0.77	-0.11	-0.60	0.25	-0.78	1.45	4.67	-1.06	-1.80	-1.05	-10.90	2.45	2.28	-2.17	**-10.2**
2169	1381	1,6,10,13,17,18,20,23,27,28,34,38,43,47,46,48,51	-0.65	-1.15	-3.26	5.68	0.60	0.25	-1.19	-2.79	-0.83	-2.97	0.78	2.02	-6.43	-5.30	2.45	-1.54	4.21	**-10.1**
2170	4351	2,4,7,11,17,21,28,34,38,40,42,46,48,51	-1.17	-1.41	-1.81	5.86	1.21	1.11	1.68	3.81	-1.55	-6.92	1.14	2.02	-4.03	-9.58	-3.11	-1.54	4.21	**-10.1**
2171	1112	1,3,7,9,10,16,18,21,28,34,38,40,42,46,48,52,53,54	-1.78	-0.38	-5.00	1.87	4.68	0.25	-0.47	-0.04	-2.14	-6.66	0.80	0.11	-8.32	3.26	1.06	-1.54	4.21	**-10.1**
2172	1073	1,3,7,9,10,16,18,21,27,26,33,37,42,46,48,51	-0.61	-0.38	-1.63	3.71	-4.41	1.11	0.96	-2.22	-3.71	-7.95	1.44	2.02	-2.78	3.26	1.06	2.28	-2.17	**-10.0**
2173	4657	2,4,7,9,10,15,23,26,31,34,36,39,41,40,42,47,50,54	-0.37	1.18	-1.82	-4.28	0.06	-1.46	-1.91	1.71	1.91	7.87	-1.86	-1.80	-1.26	-4.97	-3.11	2.28	-2.17	**-10.0**
2174	3469	2,4,3,6,9,11,13,16,20,23,26,33,37,42,46,48,51	-0.19	0.40	-1.93	8.13	-3.64	0.25	-0.47	0.30	-0.81	-5.27	1.27	2.02	-4.20	-5.63	-0.33	2.28	-2.17	**-10.0**
2175	4009	2,4,7,11,13,16,18,21,28,34,35,37,40,43,47,46,48,51	-0.66	0.40	-1.34	6.61	-0.71	1.97	0.96	2.34	-2.84	-6.80	1.27	2.02	-3.04	-3.32	-3.11	-1.54	-2.17	**-10.0**
2176	4294	2,4,7,11,17,21,27,26,31,34,36,39,41,43,50,54	-0.84	0.40	-1.94	-0.47	0.34	-1.46	0.96	3.62	1.76	4.61	-1.21	-1.80	-1.36	-9.58	-3.11	2.28	-2.17	**-10.0**
2177	4902	2,4,7,9,10,16,20,23,26,31,34,38,40,42,46,48,52,53,54	-1.61	-0.38	-5.64	3.31	3.72	-2.32	-1.91	2.33	1.42	-5.29	0.66	0.11	-10.02	2.28	-3.11	2.28	4.21	**-10.0**
2178	822	1,3,7,9,10,13,17,21,27,26,31,34,38,40,42,46,48,52,53,54	-1.30	0.66	-4.26	1.93	2.42	0.25	0.25	-0.04	-0.72	-7.98	1.16	0.11	-6.97	-2.99	1.06	2.28	4.21	**-9.9**
2179	3132	2,4,3,6,8,14,30,31,34,38,40,42,49,53,54	-0.24	-1.41	3.75	-0.78	8.18	-1.46	1.68	-2.99	-12.42	0.69	0.60	2.02	0.36	-10.24	-0.33	-1.54	4.21	**-9.9**
2180	1083	1,3,7,9,10,16,18,21,28,31,33,37,40,43,47,46,48,51	-0.43	0.40	-1.90	4.24	-3.17	2.82	0.96	-2.22	-5.13	-6.28	1.22	2.02	-2.96	3.26	1.06	-1.54	-2.17	**-9.8**
2181	3281	2,4,3,6,9,11,13,15,23,27,28,34,38,43,47,46,48,51	-0.43	0.14	-0.92	4.44	1.39	-0.60	-1.19	2.05	-0.64	-3.23	0.72	2.02	-3.00	-12.87	-0.33	-1.54	4.21	**-9.8**
2182	588	1,3,7,11,17,21,28,34,36,39,41,40,42,49,53,54	-0.98	-0.64	-2.48	-0.49	1.24	-0.60	0.25	6.11	-1.98	5.44	-1.27	0.11	-2.25	-9.58	1.06	-1.54	-2.17	**-9.8**
2183	1317	1,6,10,13,17,18,20,23,26,31,34,36,39,41,43,47,49,53,54	-0.36	0.92	-3.49	-0.46	-0.16	-2.32	-2.62	-0.89	0.16	7.36	-1.33	0.11	-3.94	-5.30	2.45	2.28	-2.17	**-9.8**
2184	76	1,3,7,11,13,15,23,26,31,34,38,43,47,46,48,52,53,54	-1.60	-0.38	-3.37	1.51	2.75	-1.46	-1.19	7.97	1.58	-5.41	0.61	0.11	-6.83	-11.56	1.06	2.28	4.21	**-9.7**
2185	1962	1,6,9,11,13,15,23,26,31,34,36,39,41,40,42,49,53,54	-0.32	0.66	-1.26	-2.92	-0.10	-2.32	-2.62	4.35	0.35	6.87	-1.41	0.11	-0.77	-12.87	2.45	2.28	-2.17	**-9.7**
2186	1563	1,6,10,15,23,26,31,34,38,43,47,46,48,51	-0.69	-1.15	-1.32	1.56	-0.58	0.25	-1.91	-2.50	-0.33	-5.04	0.87	2.02	-3.52	-6.29	2.45	2.28	4.21	**-9.7**
2187	2565	2,4,3,6,10,13,17,18,20,23,26,31,34,36,39,41,40,42,47,50,54	-0.05	1.70	-3.26	0.23	0.27	-1.46	-1.91	-3.38	2.49	7.95	-1.51	-1.80	-3.43	-5.30	-0.33	2.28	-2.17	**-9.7**
2188	2339	1,6,9,11,17,18,20,23,27,28,34,36,39,41,40,42,47,50,54	-0.35	0.14	-3.18	1.05	1.00	-0.60	-1.19	1.98	2.18	9.70	-1.76	-1.80	-3.69	-11.89	2.45	-1.54	-2.17	**-9.7**
2189	2501	1,6,9,11,17,21,28,34,38,43,47,46,48,51	-0.91	-1.67	-1.67	5.96	0.98	1.97	0.96	-0.59	-1.86	-6.67	1.30	2.02	-3.69	-10.90	2.45	-1.54	4.21	**-9.7**
2190	724	1,3,7,9,10,13,17,18,20,23,27,28,34,36,39,41,43,50,54	-0.69	0.92	-3.96	-0.96	0.75	-2.32	-1.19	1.83	1.42	9.60	-1.96	-1.80	-4.67	-3.98	1.06	-1.54	-2.17	**-9.7**
2191	2290	1,6,9,11,17,18,20,23,26,31,34,36,39,41,43,50,54	-0.60	0.40	-2.95	0.47	-0.28	-2.32	-1.19	1.98	3.59	7.33	-1.48	-1.80	-3.48	-11.89	2.45	2.28	-2.17	**-9.6**
2192	1843	1,6,10,16,20,23,27,28,34,36,39,41,43,47,49,53,54	-0.76	-0.64	-4.18	-0.52	2.10	-2.32	-3.34	-0.89	-1.25	9.42	-1.72	0.11	-5.27	0.96	2.45	-1.54	-2.17	**-9.6**
2193	2191	1,6,9,11,13,16,20,23,26,31,34,35,37,42,46,48,51	-0.57	-0.38	-2.06	7.02	-2.57	-0.60	-1.19	0.70	0.40	-5.60	1.28	2.02	-4.91	-5.63	2.45	2.28	-2.17	**-9.5**
2194	3818	2,4,7,11,13,15,23,26,31,34,36,39,41,40,42,49,53,54	-0.57	0.66	-1.38	-2.62	0.35	-3.18	-1.91	8.75	0.66	6.82	-1.56	0.11	-1.08	-11.56	-3.11	2.28	-2.17	**-9.5**
2195	2544	2,4,3,6,10,12,14,30,33,37,42,49,53,54	-0.13	-1.93	-2.83	5.16	5.41	-0.60	0.96	-2.47	-6.20	2.66	0.11	0.11	-3.67	-2.01	-0.33	-1.54	-2.17	**-9.5**
2196	3091	2,4,3,6,10,16,20,23,27,28,34,36,39,41,40,42,47,50,54	-0.46	0.14	-3.95	0.16	2.52	-1.46	-2.62	-3.38	1.07	10.02	-1.89	-1.80	-4.76	0.96	-0.33	-1.54	-2.17	**-9.5**
2197	4195	2,4,7,11,17,18,20,23,27,28,34,36,39,41,40,42,47,50,54	-0.61	0.14	-3.30	1.35	1.45	-1.46	-0.47	6.39	2.49	9.65	-1.91	-1.80	-4.00	-10.57	-3.11	-1.54	-2.17	**-9.5**
2198	257	1,3,7,11,13,16,18,21,28,34,35,37,42,46,48,51	-0.99	-0.38	-1.54	5.87	-1.16	1.11	0.96	2.74	-2.84	-7.02	1.27	2.02	-3.52	-3.32	1.06	-1.54	-2.17	**-9.5**
2199	4357	2,4,7,11,17,21,28,34,38,43,47,46,48,51	-1.16	-1.67	-1.79	6.25	1.43	1.11	1.68	3.81	-1.55	-6.73	1.15	2.02	-4.00	-9.58	-3.11	-1.54	4.21	**-9.5**
2200	3686	2,4,3,6,9,11,17,21,27,26,31,34,36,39,41,40,42,49,53,54	-0.12	1.44	-1.59	0.25	0.50	-1.46	-0.47	0.90	-0.88	4.24	-0.81	0.11	-0.47	-10.90	-0.33	2.28	-2.17	**-9.5**

Table F-3: Weighted, Sorted Z-scores for All Routes

Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
2201	1118	1,3,7,9,10,16,18,21,28,34,38,43,47,46,48,52,53,54	-1.77	-0.64	-4.99	2.26	4.90	0.25	-0.47	-0.04	-2.14	-6.46	0.81	0.11	-8.28	3.26	1.06	-1.54	4.21	**-9.5**
2202	3042	2,4,3,6,10,16,20,23,26,31,34,36,39,41,43,50,54	-0.70	0.40	-3.72	-0.42	1.25	-3.18	-2.62	-3.38	2.49	7.65	-1.61	-1.80	-4.55	0.96	-0.33	2.28	-2.17	**-9.5**
2203	4146	2,4,7,11,17,18,20,23,26,31,34,36,39,41,43,50,54	-0.86	0.40	-3.07	0.76	0.17	-3.18	-0.47	6.39	3.91	7.27	-1.63	-1.80	-3.79	-10.57	-3.11	2.28	-2.17	**-9.5**
2204	3217	2,4,3,6,9,11,13,15,23,26,31,34,36,39,41,43,47,49,53,54	-0.14	2.22	-1.16	-1.69	0.63	-3.18	-2.62	3.95	0.35	7.10	-1.39	0.11	-0.51	-12.87	-0.33	2.28	-2.17	**-9.4**
2205	674	1,3,7,9,10,13,17,18,20,23,26,31,34,38,40,42,46,48,52,53,54	-1.31	0.66	-5.39	3.17	2.25	-1.46	-1.19	2.72	1.42	-5.32	0.74	0.11	-9.40	-3.98	1.06	2.28	4.21	**-9.4**
2206	4047	2,4,7,11,13,16,20,23,26,31,34,35,37,42,46,48,51	-0.82	-0.38	-2.18	7.31	-2.13	-1.46	-0.47	5.10	0.72	-5.65	1.12	2.02	-5.22	-4.31	-3.11	2.28	-2.17	**-9.4**
2207	4908	2,4,7,9,10,16,20,23,26,31,34,38,43,47,46,48,52,53,54	-1.60	-0.64	-5.62	3.71	3.94	-2.32	-1.91	2.33	1.42	-5.09	0.66	0.11	-9.98	2.28	-3.11	2.28	4.21	**-9.3**
2208	871	1,3,7,9,10,13,17,21,28,34,36,39,41,43,47,49,53,54	-0.70	0.92	-2.91	-1.60	1.25	-0.60	-0.47	1.15	-3.05	5.93	-1.30	0.11	-2.38	-2.99	1.06	-1.54	-2.17	**-9.3**
2209	828	1,3,7,9,10,13,17,21,27,26,31,34,38,43,47,46,48,52,53,54	-1.29	0.40	-4.24	2.33	2.64	0.25	0.25	-0.04	-0.72	-7.78	1.17	0.11	-6.93	-2.99	1.06	2.28	4.21	**-9.3**
2210	2241	1,6,9,11,13,16,20,23,27,28,34,35,37,40,43,47,46,48,51	-0.35	-0.12	-2.29	7.55	-1.33	1.11	-1.19	0.70	-1.01	-3.33	0.98	2.02	-5.13	-5.63	2.45	-1.54	-2.17	**-9.3**
2211	2023	1,6,9,11,13,15,23,27,28,34,38,40,42,46,48,51	-0.61	-0.64	-1.03	3.22	0.66	0.25	-1.19	2.45	-0.64	-3.46	0.70	2.02	-3.26	-12.87	2.45	-1.54	4.21	**-9.3**
2212	4860	2,4,7,9,10,16,18,21,28,34,36,39,41,40,42,49,53,54	-0.75	0.40	-3.00	-1.86	2.50	-1.46	-1.19	0.75	-3.05	5.76	-1.36	0.11	-2.53	3.26	-3.11	-1.54	-2.17	**-9.2**
2213	955	1,3,7,9,10,15,23,27,28,34,36,39,41,40,42,47,50,54	-0.48	0.66	-2.26	-4.49	0.85	-0.60	-1.91	2.11	0.49	9.91	-2.16	-1.80	-1.97	-4.97	1.06	-1.54	-2.17	**-9.2**
2214	906	1,3,7,9,10,15,23,26,31,34,36,39,41,43,50,54	-0.72	0.92	-2.03	-5.07	-0.42	-2.32	-1.91	2.11	1.91	7.54	-1.87	-1.80	-1.76	-4.97	1.06	2.28	-2.17	**-9.2**
2215	1200	1,3,7,9,10,16,20,23,27,28,34,38,40,42,46,48,52,53,54	-1.72	-0.90	-6.08	3.10	4.51	-1.46	-1.91	2.72	0.01	-3.25	0.36	0.11	-10.73	2.28	1.06	-1.54	4.21	**-9.2**
2216	1751	1,6,10,16,18,21,28,34,36,39,41,40,42,47,50,54	-0.69	-0.38	-2.96	-1.90	2.19	1.11	-1.19	-5.74	-1.07	6.58	-1.46	-1.80	-2.58	1.95	2.45	-1.54	-2.17	**-9.2**
2217	3355	2,4,3,6,9,11,13,16,18,21,27,26,31,34,35,37,42,46,48,51	-0.13	1.70	-0.66	6.60	-1.90	0.25	0.25	-2.46	-1.74	-8.23	1.73	2.02	-1.74	-4.64	-0.33	2.28	-2.17	**-9.2**
2218	4097	2,4,7,11,13,16,20,23,27,28,34,35,37,40,43,47,46,48,51	-0.60	-0.12	-2.41	7.85	-0.88	0.25	-0.47	5.10	-0.70	-3.39	0.82	2.02	-5.44	-4.31	-3.11	-1.54	-2.17	**-9.1**
2219	4570	2,4,7,9,10,13,17,21,27,26,31,34,36,39,41,40,42,49,53,54	-0.27	1.44	-2.25	-1.79	0.24	-1.46	-0.47	0.75	-1.64	4.44	-1.01	0.11	-1.18	-2.99	-3.11	2.28	-2.17	**-9.1**
2220	1687	1,6,10,16,18,21,27,26,31,34,35,37,40,43,47,46,48,51	-0.16	0.40	-1.29	4.26	-2.62	2.82	-0.47	-7.02	-2.85	-7.77	1.59	2.02	-2.49	1.95	2.45	2.28	-2.17	**-9.1**
2221	3879	2,4,7,11,13,15,23,27,28,34,38,40,42,46,48,51	-0.87	-0.64	-1.15	3.52	1.11	-0.60	-0.47	6.86	-0.33	-3.51	0.55	2.02	-3.57	-11.56	-3.11	-1.54	4.21	**-9.1**
2222	1239	1,3,7,9,8,14,30,33,37,40,41,44,55	1.34	-2.71	9.91	-2.75	1.87	-0.60	3.11	-2.05	-13.27	0.93	0.85	0.11	5.78	-8.92	1.06	-1.54	-2.17	**-9.1**
2223	4994	2,4,7,9,8,14,30,31,34,38,43,50,54	-0.64	-2.45	3.64	-1.50	8.01	-1.46	3.11	-0.27	-9.75	1.07	0.27	0.11	0.15	-8.92	-3.11	-1.54	4.21	**-9.1**
2224	1461	1,6,10,13,17,21,27,26,31,34,36,39,41,40,42,47,50,54	-0.21	0.66	-2.22	-1.83	-0.07	1.11	-0.47	-5.74	0.34	5.26	-1.10	-1.80	-1.22	-4.31	2.45	2.28	-2.17	**-9.0**
2225	3137	2,4,3,6,8,14,30,31,34,38,43,47,49,53,54	-0.24	-1.41	3.77	-0.38	8.40	-1.46	1.68	-2.99	-12.42	0.89	0.61	2.02	0.40	-10.24	-0.33	-1.54	4.21	**-9.0**
2226	3420	2,4,3,6,9,11,13,16,18,21,28,34,36,39,41,43,50,54	-0.68	1.44	-2.33	0.39	2.88	-1.46	-0.47	-1.18	0.03	6.01	-1.33	-1.80	-1.84	-4.64	-0.33	-1.54	-2.17	**-9.0**
2227	542	1,3,7,11,17,21,27,26,31,34,38,40,42,46,48,52,53,54	-1.58	-0.38	-3.80	3.45	2.63	0.25	0.96	4.92	0.35	-8.27	1.20	0.11	-6.79	-9.58	1.06	2.28	4.21	**-9.0**
2228	3538	2,4,3,6,9,11,17,18,20,23,26,31,34,36,39,41,40,42,49,53,54	-0.13	1.44	-2.72	1.49	0.33	-3.18	-1.91	3.66	1.27	6.90	-1.23	0.11	-2.90	-11.89	-0.33	2.28	-2.17	**-9.0**
2229	1171	1,3,7,9,10,16,20,23,27,28,31,33,37,40,43,47,46,48,51	-0.37	-0.12	-2.97	5.48	-3.34	1.11	-0.47	0.54	-2.98	-2.87	0.78	2.02	-5.37	2.28	1.06	-1.54	-2.17	**-8.9**
2230	221	1,3,7,11,13,16,18,21,27,26,31,34,38,41,44,55	-2.60	-0.12	-4.58	-3.00	7.70	-0.60	-2.62	4.21	2.16	-7.33	0.43	-1.80	-5.01	-3.32	1.06	2.28	4.21	**-8.9**
2231	1055	1,3,7,9,10,16,18,21,27,26,31,34,36,39,44,55	-3.27	0.14	0.51	-3.49	0.60	-1.46	-4.06	-1.64	-0.33	4.73	-1.38	-1.80	-1.85	3.26	1.06	2.28	-2.17	**-8.9**
2232	200	1,3,7,11,13,16,18,21,27,26,31,34,35,37,40,43,47,46,48,52,53,54	-1.07	1.44	-3.33	4.20	0.71	1.11	0.25	3.45	-0.94	-8.14	1.32	0.11	-5.80	-3.32	1.06	2.28	-2.17	**-8.9**
2233	2217	1,6,9,11,13,16,20,23,26,33,37,40,43,47,46,48,51	-0.37	-0.64	-2.02	7.31	-4.14	1.11	-0.47	0.70	-0.81	-5.30	1.26	2.02	-4.43	-5.63	2.45	2.28	-2.17	**-8.8**
2234	680	1,3,7,9,10,13,17,18,20,23,26,31,34,38,43,47,46,48,52,53,54	-1.31	0.40	-5.37	3.57	2.47	-1.46	-1.19	2.72	1.42	-5.12	0.75	0.11	-9.36	-3.98	1.06	2.28	4.21	**-8.8**
2235	5002	2,4,7,9,8,14,30,33,37,42,46,48,52,53,54	2.13	-2.45	10.48	4.24	-1.51	-2.32	5.98	-1.74	-15.07	0.02	1.59	2.02	3.60	-8.92	-3.11	-1.54	-2.17	**-8.8**
2236	1880	1,6,8,14,30,31,34,38,40,42,49,53,54	-0.42	-2.45	3.67	-1.60	7.67	-0.60	1.68	-2.60	-12.42	0.66	0.59	2.02	0.14	-10.24	2.45	-1.54	4.21	**-8.8**
2237	116	1,3,7,11,13,15,23,27,28,34,36,39,41,40,42,49,53,54	-0.68	0.14	-1.82	-2.83	1.14	-2.32	-1.91	9.15	-0.75	8.85	-1.86	0.11	-1.79	-11.56	1.06	-1.54	-2.17	**-8.8**
2238	444	1,3,7,11,17,18,20,23,27,28,34,36,39,41,43,50,54	-0.97	-0.12	-3.51	0.56	0.96	-2.32	-0.47	6.78	2.49	9.31	-1.93	-1.80	-4.49	-10.57	1.06	-1.54	-2.17	**-8.7**
2239	4073	2,4,7,11,13,16,20,23,26,33,37,40,43,47,46,48,51	-0.62	-0.64	-2.14	7.60	-3.69	0.25	0.25	5.10	-0.49	-5.35	1.11	2.02	-4.74	-4.31	-3.11	2.28	-2.17	**-8.7**
2240	2029	1,6,9,11,13,15,23,27,28,34,38,43,47,46,48,51	-0.61	-0.90	-1.01	3.62	0.88	0.25	-1.19	2.45	-0.64	-3.26	0.71	2.02	-3.23	-12.87	2.45	-1.54	4.21	**-8.7**
2241	345	1,3,7,11,13,16,20,23,27,28,34,35,37,42,46,48,51	-0.93	-0.90	-2.62	7.11	-1.34	-0.60	-0.47	5.50	-0.70	-3.61	0.82	2.02	-5.93	-4.31	1.06	-1.54	-2.17	**-8.6**
2242	1206	1,3,7,9,10,16,20,23,27,28,34,38,43,47,46,48,52,53,54	-1.71	-1.15	-6.06	3.50	4.73	-1.46	-1.91	2.72	0.01	-3.05	0.36	0.11	-10.69	2.28	1.06	-1.54	4.21	**-8.6**
2243	4422	2,4,7,9,10,13,17,18,20,23,26,31,34,36,39,41,40,42,49,53,54	-0.29	1.44	-3.38	-0.56	0.07	-3.18	-1.91	3.51	0.51	7.11	-1.43	0.11	-3.61	-3.98	-3.11	2.28	-2.17	**-8.6**
2244	3599	2,4,3,6,9,11,17,18,20,23,27,28,34,38,40,42,46,48,51	-0.43	0.14	-2.49	7.62	1.09	-0.60	-0.47	1.77	0.28	-3.43	0.89	2.02	-5.39	-11.89	-0.33	-1.54	4.21	**-8.5**
2245	1313	1,6,10,13,17,18,20,23,26,31,34,36,39,41,40,42,47,50,54	-0.23	0.66	-3.35	-0.60	-0.24	-0.60	-1.91	-2.98	2.49	7.92	-1.52	-1.80	-3.65	-5.30	2.45	2.28	-2.17	**-8.5**
2246	3116	2,4,3,6,8,14,30,31,34,35,37,42,46,48,52,53,54	2.42	-1.41	10.70	4.88	0.33	-2.32	4.55	-6.55	-14.21	0.00	1.75	2.02	3.64	-10.24	-0.33	-1.54	-2.17	**-8.5**
2247	3381	2,4,3,6,9,11,13,16,18,21,27,26,33,37,40,43,47,46,48,51	0.07	1.44	-0.62	6.89	-3.47	1.97	0.96	-2.46	-2.95	-7.93	1.72	2.02	-1.26	-4.64	-0.33	2.28	-2.17	**-8.5**
2248	394	1,3,7,11,17,18,20,26,31,34,38,40,42,46,48,52,53,54	-1.59	-0.38	-4.93	4.68	2.46	-1.46	-0.47	7.68	2.50	-5.61	0.78	0.11	-9.22	-10.57	1.06	2.28	4.21	**-8.5**
2249	3885	2,4,7,11,13,15,23,27,28,34,38,43,47,46,48,51	-0.86	-0.90	-1.13	3.91	1.33	-0.60	-0.47	6.86	-0.33	-3.31	0.56	2.02	-3.54	-11.56	-3.11	-1.54	4.21	**-8.5**
2250	4814	2,4,7,9,10,16,18,21,27,26,31,34,38,40,42,46,48,52,53,54	-1.35	0.66	-4.33	2.07	3.89	-0.60	-0.47	-0.44	-0.72	-7.95	1.10	0.11	-7.08	3.26	-3.11	2.28	4.21	**-8.5**
2251	4948	2,4,7,9,10,16,20,23,27,28,34,36,39,41,40,42,49,53,54	-0.69	-0.12	-4.07	-0.62	2.33	-3.18	-2.62	3.51	-0.91	9.17	-1.81	0.11	-4.94	2.28	-3.11	-1.54	-2.17	**-8.4**
2252	51	1,3,7,11,13,15,23,26,31,34,35,37,40,43,47,46,48,51	-0.35	0.66	-0.22	3.59	-3.52	1.11	-0.47	5.79	-0.21	-5.48	1.00	2.02	-1.91	-11.56	1.06	2.28	-2.17	**-8.4**
2253	591	1,3,7,11,17,21,28,34,36,39,41,43,47,49,53,54	-0.98	-0.12	-2.46	-0.09	1.46	-0.60	0.25	6.11	-1.98	5.64	-1.27	0.11	-2.21	-9.58	1.06	-1.54	-2.17	**-8.4**
2254	548	1,3,7,11,17,21,27,26,31,34,38,43,47,46,48,52,53,54	-1.57	-0.64	-3.79	3.84	2.85	0.25	0.96	4.92	0.35	-8.07	1.20	0.11	-6.76	-9.58	1.06	2.28	4.21	**-8.4**
2255	1292	1,6,10,12,14,30,33,37,42,49,53,54	-0.31	-2.97	-2.92	4.34	4.91	0.25	0.96	-2.07	-6.20	2.63	0.10	0.11	-3.90	-2.01	2.45	-1.54	-2.17	**-8.3**

Table F-3: Weighted, Sorted Z-scores for All Routes

Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
2256	1839	1,6,10,16,20,23,27,28,34,36,39,41,40,42,47,50,54	-0.63	-0.90	-4.04	-0.66	2.02	-0.60	-2.62	-2.98	1.07	9.99	-1.90	-1.80	-4.98	0.96	2.45	-1.54	-2.17	**-8.3**
2257	2434	1,6,9,11,17,21,27,26,31,34,36,39,41,40,42,49,53,54	-0.29	0.40	-1.68	-0.58	0.00	-0.60	-0.47	1.30	-0.88	4.21	-0.82	0.11	-0.69	-10.90	2.45	2.28	-2.17	**-8.3**
2258	1790	1,6,10,16,20,23,26,31,34,36,39,41,43,50,54	-0.88	-0.64	-3.81	-1.25	0.74	-2.32	-2.62	-2.98	2.49	7.62	-1.62	-1.80	-4.77	0.96	2.45	2.28	-2.17	**-8.3**
2259	1965	1,6,9,11,13,15,23,26,31,34,36,39,41,43,47,49,53,54	-0.31	1.18	-1.24	-2.52	0.12	-2.32	-2.62	4.35	0.35	7.07	-1.41	0.11	-0.73	-12.87	2.45	2.28	-2.17	**-8.3**
2260	3213	2,4,3,6,9,11,13,15,23,26,31,34,36,39,41,40,42,47,50,54	-0.01	1.96	-1.01	-1.83	0.55	-1.46	-1.91	1.87	2.67	7.67	-1.58	-1.80	-0.22	-12.87	-0.33	2.28	-2.17	**-8.2**
2261	3508	2,4,3,6,9,11,13,16,20,23,27,28,34,36,39,41,43,50,54	-0.62	0.92	-3.41	1.63	2.71	-3.18	-1.91	1.58	2.18	9.42	-1.77	-1.80	-4.25	-5.63	-0.33	-1.54	-2.17	**-8.2**
2262	321	1,3,7,11,13,16,20,23,26,33,37,42,46,48,51	-0.95	-1.41	-2.34	6.86	-4.15	-0.60	0.25	5.50	-0.49	-5.58	1.11	2.02	-5.22	-4.31	1.06	2.28	-2.17	**-8.2**
2263	4483	2,4,7,9,10,13,17,18,20,23,27,28,34,38,40,42,46,48,51	-0.58	0.14	-3.15	5.58	0.83	-0.60	-0.47	1.62	-0.48	-3.22	0.69	2.02	-6.10	-3.98	-3.11	-1.54	4.21	**-8.2**
2264	4290	2,4,7,11,17,21,27,26,31,34,36,39,41,40,42,49,53,54	-0.55	0.40	-1.80	-0.28	0.45	-1.46	0.25	5.71	-0.56	4.15	-0.97	0.11	-1.00	-9.58	-3.11	2.28	-2.17	**-8.1**
2265	1093	1,3,7,9,10,16,18,21,28,34,35,37,40,43,47,46,48,51	-0.52	0.40	-1.85	4.35	-1.38	2.82	0.25	-2.22	-3.92	-6.54	1.20	2.02	-3.36	3.26	1.06	-1.54	-2.17	**-8.1**
2266	3821	2,4,7,11,13,15,23,26,31,34,36,39,41,43,47,49,53,54	-0.57	1.18	-1.36	-2.22	0.57	-3.18	-1.91	8.75	0.66	7.01	-1.56	0.11	-1.04	-11.56	-3.11	2.28	-2.17	**-8.1**
2267	867	1,3,7,9,10,13,17,21,28,34,36,39,41,40,42,47,50,54	-0.57	0.66	-2.77	-1.74	1.17	1.11	0.25	-0.93	-0.73	6.50	-1.49	-1.80	-2.10	-2.99	1.06	-1.54	-2.17	**-8.1**
2268	3011	2,4,3,6,10,16,18,21,28,34,38,40,42,46,48,51	-0.77	-0.38	-2.27	4.67	2.28	1.11	-0.47	-5.95	-2.97	-6.55	1.19	2.02	-4.28	1.95	-0.33	-1.54	4.21	**-8.1**
2269	3689	2,4,3,6,9,11,17,21,27,26,31,34,36,39,41,43,47,49,53,54	-0.11	1.96	-1.58	0.65	0.72	-1.46	-0.47	0.90	-0.88	4.43	-0.80	0.11	-0.43	-10.90	-0.33	2.28	-2.17	**-8.1**
2270	2676	2,4,3,6,10,13,17,19,22,25,29,36,35,37,42,49,53,54	-0.31	0.66	-2.70	-5.92	0.42	-1.46	-0.47	-5.97	-3.76	-2.90	-0.23	0.11	2.74	15.78	-0.33	-1.54	-2.17	**-8.1**
2271	2103	1,6,9,11,13,16,18,21,27,26,31,34,35,37,42,46,48,51	-0.30	0.66	-0.75	5.78	-2.40	1.11	0.25	-2.06	-1.74	-8.26	1.72	2.02	-1.97	-4.64	2.45	2.28	-2.17	**-8.0**
2272	4883	2,4,7,9,10,16,20,23,26,31,34,35,37,40,43,47,46,48,51	-0.35	0.40	-2.48	5.79	-2.34	0.25	-1.19	0.15	-0.36	-5.16	1.05	2.02	-5.06	2.28	-3.11	2.28	-2.17	**-8.0**
2273	803	1,3,7,9,10,13,17,21,27,26,31,34,35,37,40,43,47,46,48,51	-0.04	1.44	-1.10	4.42	-3.63	2.82	0.96	-2.22	-2.51	-7.85	1.56	2.02	-2.01	-2.99	1.06	2.28	-2.17	**-8.0**
2274	2954	2,4,3,6,10,16,18,21,27,26,31,34,36,39,41,43,50,54	-0.44	1.44	-2.41	-1.66	1.42	-1.46	-1.19	-6.14	0.34	4.99	-1.16	-1.80	-1.60	1.95	-0.33	2.28	-2.17	**-8.0**
2275	3605	2,4,3,6,9,11,17,18,20,23,27,28,34,38,43,47,46,48,51	-0.42	-0.12	-2.48	8.02	1.31	-0.60	-0.47	1.77	0.28	-3.23	0.89	2.02	-5.36	-11.89	-0.33	-1.54	4.21	**-7.9**
2276	3458	2,4,3,6,9,11,13,16,20,23,26,31,34,38,40,42,46,48,52,53,54	-1.25	0.66	-4.83	5.76	4.20	-2.32	-1.91	2.48	2.18	-5.50	0.93	0.11	-8.98	-5.63	-0.33	2.28	4.21	**-7.9**
2277	2721	2,4,3,6,10,13,17,21,27,26,31,34,38,40,42,46,48,51	-0.29	0.66	-1.53	4.73	0.03	1.11	0.25	-5.95	-1.56	-7.87	1.55	2.02	-2.93	-4.31	-0.33	2.28	4.21	**-7.9**
2278	1885	1,6,8,14,30,31,34,38,43,47,49,53,54	-0.41	-2.45	3.68	-1.20	7.89	-0.60	1.68	-2.60	-12.42	0.86	0.60	2.02	0.18	-10.24	2.45	-1.54	4.21	**-7.9**
2279	2168	1,6,9,11,13,16,18,21,28,34,36,39,41,43,50,54	-0.86	0.40	-2.42	-0.43	2.37	-0.60	-0.47	-0.78	0.03	5.98	-1.34	-1.80	-2.07	-4.64	2.45	-1.54	-2.17	**-7.9**
2280	400	1,3,7,11,17,18,20,23,26,31,34,38,43,47,46,48,52,53,54	-1.59	-0.64	-4.92	5.08	2.68	-1.46	-0.47	7.68	2.50	-5.41	0.78	0.11	-9.19	-10.57	1.06	2.28	4.21	**-7.9**
2281	4863	2,4,7,9,10,16,18,21,28,34,36,39,41,43,47,49,53,54	-0.74	0.92	-2.99	-1.46	2.72	-1.46	-1.19	0.75	-3.05	5.96	-1.36	0.11	-2.49	3.26	-3.11	-1.54	-2.17	**-7.9**
2282	3959	2,4,7,11,13,16,18,21,27,26,31,34,35,37,42,46,48,51	-0.56	0.66	-0.87	6.08	-1.95	0.25	0.96	2.34	-1.43	-8.31	1.57	2.02	-2.28	-3.32	-3.11	2.28	-2.17	**-7.8**
2283	720	1,3,7,9,10,13,17,18,20,23,27,28,34,36,39,41,40,42,49,53,54	-0.39	0.92	-3.82	-0.76	0.86	-2.32	-1.91	3.91	-0.91	9.14	-1.73	0.11	-4.31	-3.98	1.06	-1.54	-2.17	**-7.8**
2284	4820	2,4,7,9,10,16,18,21,27,26,31,34,38,43,47,46,48,52,53,54	-1.34	0.40	-4.31	2.47	4.11	-0.60	-0.47	-0.44	-0.72	-7.75	1.11	0.11	-7.04	3.26	-3.11	2.28	4.21	**-7.8**
2285	2286	1,6,9,11,17,18,20,23,26,31,34,36,39,41,40,42,49,53,54	-0.31	0.40	-2.81	0.66	-0.17	-2.32	-1.91	4.06	1.27	6.87	-1.24	0.11	-3.12	-11.89	2.45	2.28	-2.17	**-7.8**
2286	2540	2,4,3,6,10,12,14,30,33,37,40,43,50,54	-0.04	-1.41	-2.69	4.97	5.31	1.11	1.68	-4.56	-3.87	3.12	-0.09	-1.80	-3.40	-2.01	-0.33	-1.54	-2.17	**-7.7**
2287	4665	2,4,7,9,10,15,23,26,31,34,38,40,42,46,48,51	-0.62	0.14	-1.22	1.46	-0.35	-0.60	-1.19	1.90	0.01	-5.29	0.78	2.02	-3.19	-4.97	-3.11	2.28	4.21	**-7.7**
2288	4024	2,4,7,11,13,16,18,21,28,34,36,39,41,43,50,54	-1.12	0.40	-2.54	-0.14	2.82	-1.46	0.25	3.62	0.35	5.93	-1.49	-1.80	-2.38	-3.32	-3.11	-1.54	-2.17	**-7.7**
2289	4573	2,4,7,9,10,13,17,21,27,26,31,34,36,39,41,43,47,49,53,54	-0.26	1.96	-2.24	-1.40	0.46	-1.46	-0.47	0.75	-1.64	4.64	-1.00	0.11	-1.14	-2.99	-3.11	2.28	-2.17	**-7.7**
2290	3038	2,4,3,6,10,16,20,23,26,31,34,36,39,41,40,42,49,53,54	-0.41	0.40	-3.58	-0.23	1.35	-3.18	-3.34	-1.29	0.16	7.19	-1.37	0.11	-4.19	0.96	-0.33	2.28	-2.17	**-7.6**
2291	4142	2,4,7,11,17,18,20,23,26,31,34,36,39,41,40,42,49,53,54	-0.57	0.40	-2.93	0.96	0.28	-3.18	-1.19	8.47	1.58	6.82	-1.39	0.11	-3.43	-10.57	-3.11	2.28	-2.17	**-7.6**
2292	3541	2,4,3,6,9,11,17,18,20,23,26,31,34,36,39,41,43,47,49,53,54	-0.13	1.96	-2.71	1.88	0.55	-3.18	-1.91	3.66	1.27	7.09	-1.22	0.11	-2.86	-11.89	-0.33	2.28	-2.17	**-7.6**
2293	4489	2,4,7,9,10,13,17,18,20,23,27,28,34,38,43,47,46,48,51	-0.57	-0.12	-3.14	5.98	1.05	-0.60	-0.47	1.62	-0.48	-3.02	0.69	2.02	-6.06	-3.98	-3.11	-1.54	4.21	**-7.5**
2294	1131	1,3,7,9,10,16,20,23,26,31,34,35,37,42,46,48,51	-0.68	-0.38	-2.69	5.05	-2.79	-0.60	-1.19	0.54	-0.36	-5.39	1.05	2.02	-5.55	2.28	1.06	2.28	-2.17	**-7.5**
2295	655	1,3,7,9,10,13,17,18,20,23,26,31,34,35,37,40,43,47,46,48,51	-0.06	1.44	-2.23	5.65	-3.80	1.11	-0.47	0.54	-0.36	-5.19	1.14	2.02	-4.44	-3.98	1.06	2.28	-2.17	**-7.5**
2296	3017	2,4,3,6,10,16,18,21,28,34,38,43,47,46,48,51	-0.76	-0.64	-2.26	5.06	2.50	1.11	-0.47	-5.95	-2.97	-6.35	1.19	2.02	-4.24	1.95	-0.33	-1.54	4.21	**-7.5**
2297	2573	2,4,3,6,10,13,17,18,20,23,26,31,34,38,40,42,46,48,51	-0.30	0.66	-2.66	5.97	-0.14	-0.60	-1.19	-3.19	0.59	-5.21	1.13	2.02	-5.36	-5.30	-0.33	2.28	4.21	**-7.4**
2298	2347	1,6,9,11,17,18,20,23,27,28,34,38,40,42,46,48,51	-0.60	-0.90	-2.58	6.80	0.59	0.25	-0.47	2.17	0.28	-3.46	0.88	2.02	-5.62	-11.89	2.45	-1.54	4.21	**-7.4**
2299	902	1,3,7,9,10,15,23,26,31,34,36,39,41,40,42,49,53,54	-0.43	0.92	-1.89	-4.88	-0.32	-2.32	-2.62	4.20	-0.42	7.08	-1.64	0.11	-1.40	-4.97	1.06	2.28	-2.17	**-7.4**
2300	119	1,3,7,11,13,15,23,27,28,34,36,39,41,43,47,49,53,54	-0.68	0.66	-1.80	-2.43	1.36	-2.32	-1.91	9.15	-0.75	9.05	-1.86	0.11	-1.75	-11.56	1.06	-1.54	-2.17	**-7.4**
2301	1864	1,6,8,14,30,31,34,35,37,42,46,48,52,53,54	2.25	-2.45	10.61	4.05	-0.17	-1.46	4.55	-6.15	-14.21	-0.03	1.73	2.02	3.41	-10.24	2.45	-1.54	-2.17	**-7.4**
2302	2129	1,6,9,11,13,16,18,21,27,26,33,37,40,43,47,46,48,51	-0.10	0.40	-0.71	6.07	-3.97	2.82	0.96	-2.06	-2.95	-7.96	1.70	2.02	-1.49	-4.64	2.45	2.28	-2.17	**-7.3**
2303	3464	2,4,3,6,9,11,13,16,20,23,26,31,34,38,43,47,46,48,52,53,54	-1.25	0.40	-4.82	6.15	4.42	-2.32	-1.91	2.48	2.18	-5.30	0.94	0.11	-8.94	-5.63	-0.33	2.28	4.21	**-7.3**
2304	2727	2,4,3,6,10,13,17,21,27,26,31,34,38,43,47,46,48,51	-0.28	0.40	-1.51	5.13	0.25	1.11	0.25	-5.95	-1.56	-7.67	1.55	2.02	-2.89	-4.31	-0.33	2.28	4.21	**-7.3**
2305	3131	2,4,3,6,8,14,30,31,34,38,40,42,47,50,54	-0.11	-1.15	3.91	-0.52	8.32	0.25	2.40	-5.08	-10.09	1.46	0.42	0.11	0.69	-10.24	-0.33	-1.54	4.21	**-7.3**
2306	3142	2,4,3,6,8,14,30,33,37,40,43,47,46,48,52,53,54	2.63	-1.15	10.75	5.16	-1.24	-0.60	5.26	-6.55	-15.42	0.30	1.73	2.02	4.12	-10.24	-0.33	-1.54	-2.17	**-7.3**
2307	1181	1,3,7,9,10,16,20,23,27,28,34,35,37,40,43,47,46,48,51	-0.46	-0.12	-2.92	5.59	-1.55	1.11	-1.19	0.54	-1.78	-3.12	0.75	2.02	-5.77	2.28	1.06	-1.54	-2.17	**-7.3**
2308	3099	2,4,3,6,10,16,20,23,27,28,34,38,40,42,46,48,51	-0.70	-0.90	-3.35	5.90	2.11	-0.60	-1.91	-3.19	-0.83	-3.14	0.74	2.02	-6.69	0.96	-0.33	-1.54	4.21	**-7.2**
2309	4203	2,4,7,11,17,18,20,23,27,28,34,38,40,42,46,48,51	-0.86	-0.90	-2.70	7.09	1.04	-0.60	0.25	6.57	0.60	-3.51	0.72	2.02	-5.93	-10.57	-3.11	-1.54	4.21	**-7.2**
2310	3416	2,4,3,6,9,11,13,16,18,21,28,34,36,39,41,40,42,49,53,54	-0.39	1.44	-2.19	0.59	2.98	-1.46	-1.19	0.90	-2.29	5.55	-1.09	0.11	-1.49	-4.64	-0.33	-1.54	-2.17	**-7.2**

Table F-3: Weighted, Sorted Z-scores for All Routes

Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
2311	4425	2,4,7,9,10,13,17,18,20,23,26,31,34,36,39,41,43,47,49,53,54	-0.28	1.96	-3.37	-0.16	0.29	-3.18	-1.91	3.51	0.51	7.30	-1.42	0.11	-3.57	-3.98	-3.11	2.28	-2.17	**-7.2**
2312	587	1,3,7,11,17,21,28,34,36,39,41,40,42,47,50,54	-0.85	-0.38	-2.32	-0.23	1.38	1.11	0.96	4.02	0.35	6.21	-1.45	-1.80	-1.92	-9.58	1.06	-1.54	-2.17	**-7.2**
2313	3985	2,4,7,11,13,16,18,21,27,26,33,37,40,43,47,46,48,51	-0.36	0.40	-0.83	6.37	-3.52	1.97	1.68	2.34	-2.64	-8.01	1.55	2.02	-1.80	-3.32	-3.11	2.28	-2.17	**-7.2**
2314	4671	2,4,7,9,10,15,23,26,31,34,38,43,47,46,48,51	-0.61	-0.12	-1.20	1.86	-0.13	-0.60	-1.19	1.90	0.01	-5.09	0.78	2.02	-3.16	-4.97	-3.11	2.28	4.21	**-7.1**
2315	1961	1,6,9,11,13,15,23,26,31,34,36,39,41,40,42,47,50,54	-0.19	0.92	-1.10	-2.66	0.05	-0.60	-1.91	2.27	2.67	7.64	-1.60	-1.80	-0.45	-12.87	2.45	2.28	-2.17	**-7.1**
2316	2256	1,6,9,11,13,16,20,23,27,28,34,36,39,41,43,50,54	-0.80	-0.12	-3.50	0.80	2.20	-2.32	-1.91	1.98	2.18	9.39	-1.79	-1.80	-4.48	-5.63	2.45	-1.54	-2.17	**-7.0**
2317	523	1,3,7,11,17,21,27,26,31,34,35,37,40,43,47,46,48,51	-0.32	0.40	-0.65	5.93	-3.42	2.82	1.68	2.74	-1.43	-8.14	1.59	2.02	-1.84	-9.58	1.06	2.28	-2.17	**-7.0**
2318	303	1,3,7,11,13,16,20,23,26,31,34,36,39,44,55	-3.61	-0.90	-0.20	-0.33	0.86	-3.18	-4.77	6.08	2.89	7.10	-1.72	-1.80	-4.29	-4.31	1.06	2.28	-2.17	**-7.0**
2319	4951	2,4,7,9,10,16,20,23,27,28,34,36,39,41,43,47,49,53,54	-0.68	0.40	-4.06	-0.23	2.55	-3.18	-2.62	3.51	-0.91	9.37	-1.80	0.11	-4.90	2.28	-3.11	-1.54	-2.17	**-7.0**
2320	963	1,3,7,9,10,15,23,27,28,34,38,40,42,46,48,51	-0.72	-0.38	-1.66	1.26	0.44	0.25	-1.19	2.30	-1.41	-3.25	0.48	2.02	-3.90	-4.97	1.06	-1.54	4.21	**-7.0**
2321	1759	1,6,10,16,18,21,28,34,38,40,42,46,48,51	-0.94	-1.41	-2.36	3.84	1.78	1.97	-0.47	-5.55	-2.97	-6.58	1.17	2.02	-4.50	1.95	2.45	-1.54	4.21	**-6.9**
2322	2437	1,6,9,11,17,21,27,26,31,34,36,39,41,43,47,49,53,54	-0.29	0.92	-1.67	-0.18	0.22	-0.60	-0.47	1.30	-0.88	4.40	-0.81	0.11	-0.66	-10.90	2.45	2.28	-2.17	**-6.9**
2323	1424	1,6,10,13,17,19,22,25,29,36,35,37,42,49,53,54	-0.49	-0.38	-2.79	-6.75	-0.08	-0.60	-0.47	-5.57	-3.76	-2.93	-0.24	0.11	2.52	15.78	2.45	-1.54	-2.17	**-6.9**
2324	440	1,3,7,11,17,18,20,23,27,28,34,36,39,41,40,42,49,53,54	-0.67	-0.12	-3.37	0.75	1.07	-2.32	-1.19	8.87	0.17	8.85	-1.69	0.11	-4.14	-10.57	1.06	-1.54	-2.17	**-6.9**
2325	3817	2,4,7,11,13,15,23,26,31,34,36,39,41,40,42,47,50,54	-0.44	0.92	-1.22	-2.36	0.50	-1.46	-1.19	6.67	2.99	7.58	-1.75	-1.80	-0.76	-11.56	-3.11	2.28	-2.17	**-6.9**
2326	2543	2,4,3,6,10,12,14,30,33,37,42,47,50,54	0.00	-1.67	-2.67	5.42	5.55	1.11	1.68	-4.56	-3.87	3.42	-0.07	-1.80	-3.35	-2.01	-0.33	-1.54	-2.17	**-6.9**
2327	3685	2,4,3,6,9,11,17,21,27,26,31,34,36,39,41,40,42,47,50,54	0.01	1.70	-1.44	0.51	0.65	0.25	0.25	-1.18	1.45	5.00	-0.99	-1.80	-0.15	-10.90	-0.33	2.28	-2.17	**-6.9**
2328	4112	2,4,7,11,13,16,20,23,27,28,34,36,39,41,43,50,54	-1.06	-0.12	-3.62	1.10	2.65	-3.18	-1.19	6.39	2.49	9.34	-1.94	-1.80	-4.78	-4.31	-3.11	-1.54	-2.17	**-6.8**
2329	1157	1,3,7,9,10,16,20,23,26,33,37,40,43,47,46,48,51	-0.48	-0.64	-2.65	5.34	-4.36	1.11	-0.47	0.54	-1.57	-5.09	1.04	2.02	-5.06	2.28	1.06	2.28	-2.17	**-6.8**
2330	1702	1,6,10,16,18,21,27,26,31,34,36,39,41,43,50,54	-0.62	0.40	-2.50	-2.49	0.91	-0.60	-1.19	-5.74	0.34	4.96	-1.18	-1.80	-1.83	1.95	2.45	2.28	-2.17	**-6.8**
2331	2579	2,4,3,6,10,13,17,18,20,23,26,31,34,38,43,47,46,48,51	-0.30	0.40	-2.64	6.37	0.08	-0.60	-1.19	-3.19	0.59	-5.01	1.13	2.02	-5.32	-5.30	-0.33	2.28	4.21	**-6.8**
2332	2353	1,6,9,11,17,18,20,23,27,28,34,38,43,47,46,48,51	-0.60	-1.15	-2.57	7.19	0.81	0.25	-0.47	2.17	0.28	-3.26	0.88	2.02	-5.58	-11.89	2.45	-1.54	4.21	**-6.8**
2333	2206	1,6,9,11,13,16,20,23,26,31,34,38,40,42,46,48,52,53,54	-1.43	-0.38	-4.92	4.93	3.70	-1.46	-1.91	2.88	2.18	-5.53	0.92	0.11	-9.21	-5.63	2.45	2.28	4.21	**-6.8**
2334	1469	1,6,10,13,17,21,27,26,31,34,38,40,42,46,48,51	-0.46	-0.38	-1.61	3.91	-0.48	1.97	0.25	-5.55	-1.56	-7.90	1.53	2.02	-3.15	-4.31	2.45	2.28	4.21	**-6.8**
2335	4293	2,4,7,11,17,21,27,26,31,34,36,39,41,43,47,49,53,54	-0.54	0.92	-1.79	0.12	0.67	-1.46	0.25	5.71	-0.56	4.35	-0.97	0.11	-0.97	-9.58	-3.11	2.28	-2.17	**-6.7**
2336	4988	2,4,7,9,8,14,30,31,34,38,40,42,49,53,54	-0.34	-1.93	3.79	-1.30	8.12	-1.46	2.40	1.81	-12.08	0.61	0.50	2.02	0.51	-8.92	-3.11	-1.54	4.21	**-6.7**
2337	272	1,3,7,11,13,16,18,21,28,34,38,40,42,46,48,52,53,54	-1.85	-0.38	-4.40	3.78	5.11	0.25	0.25	4.92	-1.06	-6.95	0.91	0.11	-7.81	-3.32	1.06	-1.54	4.21	**-6.7**
2338	233	1,3,7,11,13,16,18,21,27,26,33,37,42,46,48,51	-0.69	-0.38	-1.03	5.63	-3.98	1.11	1.68	2.74	-2.64	-8.24	1.55	2.02	-2.28	-3.32	1.06	2.28	-2.17	**-6.7**
2339	4859	2,4,7,9,10,16,18,21,28,34,36,39,41,40,42,47,50,54	-0.62	0.66	-2.84	-1.60	2.64	0.25	-0.47	-1.33	-0.73	6.53	-1.55	-1.80	-2.21	3.26	-3.11	-1.54	-2.17	**-6.6**
2340	3105	2,4,3,6,10,16,20,23,27,28,34,38,43,47,46,48,51	-0.70	-1.15	-3.33	6.30	2.33	-0.60	-1.91	-3.19	-0.83	-2.94	0.75	2.02	-6.65	0.96	-0.33	-1.54	4.21	**-6.6**
2341	4209	2,4,7,11,17,18,20,23,27,28,34,38,43,47,46,48,51	-0.85	-1.15	-2.69	7.49	1.26	-0.60	0.25	6.57	0.60	-3.31	0.73	2.02	-5.89	-10.57	-3.11	-1.54	4.21	**-6.6**
2342	1288	1,6,10,12,14,30,33,37,40,43,50,54	-0.21	-2.45	-2.78	4.15	4.80	1.97	1.68	-4.16	-3.87	3.09	-0.11	-1.80	-3.63	-2.01	2.45	-1.54	-2.17	**-6.6**
2343	4062	2,4,7,11,13,16,20,23,26,31,34,38,40,42,46,48,52,53,54	-1.68	-0.38	-5.04	5.23	4.15	-2.32	-1.19	7.28	2.50	-5.58	0.77	0.11	-9.52	-4.31	-3.11	2.28	4.21	**-6.6**
2344	375	1,3,7,11,17,18,20,23,26,31,34,35,37,40,43,47,46,48,51	-0.34	0.40	-1.78	7.17	-3.60	1.11	0.25	5.50	0.72	-5.48	1.17	2.02	-4.27	-10.57	1.06	2.28	-2.17	**-6.5**
2345	4795	2,4,7,9,10,16,18,21,27,26,31,34,35,37,40,43,47,46,48,51	-0.09	1.44	-1.17	4.56	-2.17	1.97	0.25	-2.62	-2.51	-7.82	1.50	2.02	-2.12	3.26	-3.11	2.28	-2.17	**-6.5**
2346	1786	1,6,10,16,20,23,26,31,34,36,39,41,40,42,49,53,54	-0.59	-0.64	-3.67	-1.05	0.85	-2.32	-3.34	-0.89	0.16	7.16	-1.39	0.11	-4.42	0.96	2.45	2.28	-2.17	**-6.5**
2347	4569	2,4,7,9,10,13,17,21,27,26,31,34,36,39,41,40,42,47,50,54	-0.14	1.70	-2.10	-1.54	0.38	0.25	0.25	-1.33	0.69	5.21	-1.19	-1.80	-0.86	-2.99	-3.11	2.28	-2.17	**-6.5**
2348	723	1,3,7,9,10,13,17,18,20,23,27,28,34,36,39,41,43,47,49,53,54	-0.39	1.44	-3.81	-0.37	1.08	-2.32	-1.91	3.91	-0.91	9.34	-1.72	0.11	-4.28	-3.98	1.06	-1.54	-2.17	**-6.4**
2349	243	1,3,7,11,13,16,18,21,28,31,33,37,40,43,47,46,48,51	-0.51	0.40	-1.30	6.16	-2.73	2.82	1.68	2.74	-4.05	-6.57	1.33	2.02	-2.46	-3.32	1.06	-1.54	-2.17	**-6.4**
2350	2289	1,6,9,11,17,18,20,23,26,31,34,36,39,41,43,47,49,53,54	-0.30	0.92	-2.80	1.06	0.05	-2.32	-1.91	4.06	1.27	7.07	-1.23	0.11	-3.09	-11.89	2.45	2.28	-2.17	**-6.4**
2351	3370	2,4,3,6,9,11,13,16,18,21,27,26,31,34,38,40,42,46,48,52,53,54	-0.99	1.70	-3.52	4.52	4.37	-0.60	-0.47	-0.28	0.04	-8.16	1.38	0.11	-6.04	-4.64	-0.33	2.28	4.21	**-6.4**
2352	969	1,3,7,9,10,15,23,27,28,34,38,43,47,46,48,51	-0.72	-0.64	-1.64	1.65	0.66	0.25	-1.19	2.30	-1.41	-3.05	0.48	2.02	-3.86	-4.97	1.06	-1.54	4.21	**-6.4**
2353	3537	2,4,3,6,9,11,17,18,20,23,26,31,34,36,39,41,40,42,47,50,54	0.00	1.70	-2.57	1.74	0.48	-1.46	-1.19	1.58	3.59	7.66	-1.41	-1.80	-2.58	-11.89	-0.33	2.28	-2.17	**-6.4**
2354	3504	2,4,3,6,9,11,13,16,20,23,27,28,34,36,39,41,40,42,49,53,54	-0.33	0.92	-3.27	1.82	2.81	-3.18	-2.62	3.66	-0.15	8.96	-1.54	0.11	-3.90	-5.63	-0.33	-1.54	-2.17	**-6.4**
2355	1765	1,6,10,16,18,21,28,34,38,43,47,46,48,51	-0.94	-1.67	-2.35	4.24	2.00	1.97	-0.47	-5.55	-2.97	-6.38	1.18	2.02	-4.47	1.95	2.45	-1.54	4.21	**-6.3**
2356	2672	2,4,3,6,10,13,17,19,22,25,29,36,35,37,40,43,50,54	-0.21	1.18	-2.56	-6.12	0.32	0.25	0.25	-8.05	-1.44	-2.44	-0.43	-1.80	3.01	15.78	-0.33	-1.54	-2.17	**-6.3**
2357	1321	1,6,10,13,17,18,20,23,26,31,34,38,40,42,46,48,51	-0.48	-0.38	-2.74	5.15	-0.65	0.25	-1.19	-2.79	0.59	-5.24	1.11	2.02	-5.58	-5.30	2.45	2.28	4.21	**-6.3**
2358	3041	2,4,3,6,10,16,20,23,26,31,34,36,39,41,43,47,49,53,54	-0.40	0.92	-3.56	0.17	1.57	-3.18	-3.34	-1.29	0.16	7.38	-1.37	0.11	-4.16	0.96	-0.33	2.28	-2.17	**-6.2**
2359	4145	2,4,7,11,17,18,20,23,26,31,34,36,39,41,43,47,49,53,54	-0.56	0.92	-2.92	1.36	0.50	-3.18	-1.19	8.47	1.58	7.01	-1.38	0.11	-3.40	-10.57	-3.11	2.28	-2.17	**-6.2**
2360	2212	1,6,9,11,13,16,20,23,26,31,34,38,43,47,46,48,52,53,54	-1.42	-0.64	-4.90	5.33	3.92	-1.46	-1.91	2.88	2.18	-5.33	0.92	0.11	-9.17	-5.63	2.45	2.28	4.21	**-6.2**
2361	1475	1,6,10,13,17,21,27,26,31,34,38,43,47,46,48,51	-0.46	-0.64	-1.60	4.31	-0.26	1.97	0.25	-5.55	-1.56	-7.70	1.54	2.02	-3.11	-4.31	2.45	2.28	4.21	**-6.2**
2362	1879	1,6,8,14,30,31,34,38,40,42,47,50,54	-0.29	-2.19	3.82	-1.34	7.81	1.11	2.40	-4.68	-10.09	1.43	0.41	0.11	0.46	-10.24	2.45	-1.54	4.21	**-6.2**
2363	1890	1,6,8,14,30,33,37,40,43,47,46,48,52,53,54	2.45	-2.19	10.66	4.34	-1.74	0.25	5.26	-6.15	-15.42	0.27	1.72	2.02	3.90	-10.24	2.45	-1.54	-2.17	**-6.1**
2364	115	1,3,7,11,13,15,23,27,28,34,36,39,41,40,42,47,50,54	-0.55	0.40	-1.66	-2.57	1.29	-0.60	-1.19	7.07	1.57	9.62	-2.05	-1.80	-1.46	-11.56	1.06	-1.54	-2.17	**-6.1**
2365	2950	2,4,3,6,10,16,18,21,27,26,31,34,36,39,41,40,42,49,53,54	-0.15	1.44	-2.27	-1.47	1.52	-1.46	-1.91	-4.05	-1.98	4.53	-0.93	0.11	-1.25	1.95	-0.33	2.28	-2.17	**-6.1**

Table F-3: Weighted, Sorted Z-scores for All Routes

Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
2366	66	1,3,7,11,13,15,23,26,31,34,36,39,41,43,50,54	-0.80	0.66	-1.43	-3.15	0.01	-2.32	-1.19	7.07	2.99	7.25	-1.76	-1.80	-1.25	-11.56	1.06	2.28	-2.17	**-6.1**
2367	278	1,3,7,11,13,16,18,21,28,34,38,43,47,46,48,52,53,54	-1.85	-0.64	-4.39	4.18	5.33	0.25	0.25	4.92	-1.06	-6.76	0.92	0.11	-7.78	-3.32	1.06	-1.54	4.21	**-6.1**
2368	1847	1,6,10,16,20,23,27,28,34,38,40,42,46,48,51	-0.88	-1.93	-3.44	5.08	1.61	0.25	-1.91	-2.79	-0.83	-3.17	0.73	2.02	-6.91	0.96	2.45	-1.54	4.21	**-6.1**
2369	2164	1,6,9,11,13,16,18,21,28,34,36,39,41,40,42,49,53,54	-0.57	0.40	-2.28	-0.24	2.48	-0.60	-1.19	1.30	-2.29	5.52	-1.11	0.11	-1.71	-4.64	2.45	-1.54	-2.17	**-6.1**
2370	1043	1,3,7,9,10,16,18,21,27,26,31,34,35,37,42,46,48,51	-0.42	0.66	-1.38	3.82	-2.62	1.11	0.25	-2.22	-2.51	-8.05	1.50	2.02	-2.60	3.26	1.06	2.28	-2.17	**-6.0**
2371	905	1,3,7,9,10,15,23,26,31,34,36,39,41,43,47,49,53,54	-0.42	1.44	-1.87	-4.48	-0.10	-2.32	-2.62	4.20	-0.42	7.27	-1.63	0.11	-1.37	-4.97	1.06	2.28	-2.17	**-6.0**
2372	2514	2,4,3,6,10,12,14,30,31,34,35,37,42,49,53,54	0.06	-1.41	-2.58	5.27	7.20	-0.60	0.25	-2.47	-4.99	2.56	0.17	0.11	-3.49	-2.01	-0.33	-1.54	-2.17	**-6.0**
2373	4068	2,4,7,11,13,16,20,23,26,31,34,38,43,47,46,48,52,53,54	-1.68	-0.64	-5.02	5.63	4.37	-2.32	-1.19	7.28	2.50	-5.38	0.77	0.11	-9.48	-4.31	-3.11	2.28	4.21	**-6.0**
2374	3439	2,4,3,6,9,11,13,16,20,23,26,31,34,35,37,40,43,47,46,48,51	0.01	1.44	-1.67	8.24	-1.85	0.25	-1.19	0.30	0.40	-5.37	1.33	2.02	-4.02	-5.63	-0.33	2.28	-2.17	**-6.0**
2375	4421	2,4,7,9,10,13,17,18,20,23,26,31,34,36,39,41,40,42,47,50,54	-0.15	1.70	-3.23	-0.30	0.21	-1.46	-1.19	1.43	2.83	7.87	-1.61	-1.80	-3.29	-3.98	-3.11	2.28	-2.17	**-6.0**
2376	3221	2,4,3,6,9,11,13,15,23,26,31,34,38,40,42,46,48,51	-0.26	0.92	-0.41	3.91	0.14	-0.60	-1.19	2.05	0.77	-5.49	1.05	2.02	-2.15	-12.87	-0.33	2.28	4.21	**-6.0**
2377	4020	2,4,7,11,13,16,18,21,28,34,36,39,41,40,42,49,53,54	-0.82	0.40	-2.40	0.06	2.93	-1.46	-0.47	5.71	-1.98	5.47	-1.26	0.11	-2.02	-3.32	-3.11	-1.54	-2.17	**-5.9**
2378	1108	1,3,7,9,10,16,18,21,28,34,36,39,41,43,50,54	-0.97	0.40	-3.05	-2.40	2.15	-0.60	-0.47	-0.93	-0.73	6.19	-1.57	-1.80	-2.70	3.26	1.06	-1.54	-2.17	**-5.9**
2379	360	1,3,7,11,13,16,20,23,27,28,34,38,40,42,46,48,52,53,54	-1.79	-0.90	-5.48	5.02	4.94	-1.46	-1.19	7.68	1.08	-3.54	0.47	0.11	-10.22	-4.31	1.06	-1.54	4.21	**-5.9**
2380	4993	2,4,7,9,8,14,30,31,34,38,43,47,49,53,54	-0.34	-1.93	3.80	-0.90	8.34	-1.46	2.40	1.81	-12.08	0.81	0.51	2.02	0.54	-8.92	-3.11	-1.54	4.21	**-5.8**
2381	875	1,3,7,9,10,13,17,21,28,34,38,40,42,46,48,51	-0.82	-0.38	-2.17	4.00	0.76	1.97	0.96	-0.75	-2.63	-6.66	1.14	2.02	-4.03	-2.99	1.06	-1.54	4.21	**-5.8**
2382	3419	2,4,3,6,9,11,13,16,18,21,28,34,36,39,41,43,47,49,53,54	-0.38	1.96	-2.18	0.98	3.20	-1.46	-1.19	0.90	-2.29	5.75	-1.09	0.11	-1.45	-4.64	-0.33	-1.54	-2.17	**-5.8**
2383	3376	2,4,3,6,9,11,13,16,18,21,27,26,31,34,38,43,47,46,48,52,53,54	-0.98	1.44	-3.51	4.92	4.59	-0.60	-0.47	-0.28	0.04	-7.96	1.38	0.11	-6.00	-4.64	-0.33	2.28	4.21	**-5.8**
2384	4400	2,4,7,9,10,12,14,30,33,37,42,49,53,54	-0.24	-1.93	-2.80	4.64	5.36	-0.60	1.68	2.33	-5.86	2.58	0.01	0.11	-3.53	-0.69	-3.11	-1.54	-2.17	**-5.8**
2385	4947	2,4,7,9,10,16,20,23,27,28,34,36,39,41,40,42,47,50,54	-0.56	0.14	-3.92	-0.37	2.47	-1.46	-1.91	1.43	1.42	9.94	-1.99	-1.80	-4.61	2.28	-3.11	-1.54	-2.17	**-5.8**
2386	4898	2,4,7,9,10,16,20,23,26,31,34,36,39,41,43,50,54	-0.81	0.40	-3.69	-0.95	1.19	-3.18	-1.91	1.43	2.83	7.56	-1.71	-1.80	-4.40	2.28	-3.11	2.28	-2.17	**-5.8**
2387	1291	1,6,10,12,14,30,33,37,42,47,50,54	-0.18	-2.71	-2.76	4.60	5.05	1.97	1.68	-4.16	-3.87	3.40	-0.08	-1.80	-3.58	-2.01	2.45	-1.54	-2.17	**-5.7**
2388	2433	1,6,9,11,17,21,27,26,31,34,36,39,41,40,42,47,50,54	-0.16	0.66	-1.53	-0.32	0.14	1.11	0.25	-0.78	1.45	4.97	-1.00	-1.80	-0.37	-10.90	2.45	2.28	-2.17	**-5.7**
2389	818	1,3,7,9,10,13,17,21,27,26,31,34,36,39,41,43,50,54	-0.50	1.44	-2.31	-2.33	-0.10	-0.60	0.25	-0.93	0.69	4.87	-1.21	-1.80	-1.35	-2.99	1.06	2.28	-2.17	**-5.7**
2390	2854	2,4,3,6,10,15,23,27,28,34,36,39,41,40,42,46,48,52,53,54	2.21	0.40	4.40	1.62	-3.25	-3.18	-0.47	-3.09	-2.67	8.63	-0.80	0.11	0.73	-6.29	-0.33	-1.54	-2.17	**-5.7**
2391	1327	1,6,10,13,17,18,20,23,26,31,34,38,43,47,46,48,51	-0.47	-0.64	-2.73	5.54	-0.43	0.25	-1.19	-2.79	0.59	-5.04	1.12	2.02	-5.54	-5.30	2.45	2.28	4.21	**-5.7**
2392	331	1,3,7,11,13,16,20,23,27,28,31,33,37,40,43,47,46,48,51	-0.45	-0.12	-2.37	7.40	-2.90	1.11	0.25	5.50	-1.90	-3.16	0.89	2.02	-4.86	-4.31	1.06	-1.54	-2.17	**-5.6**
2393	1209	1,3,7,9,8,14,30,31,34,35,37,40,41,44,55	1.53	-2.19	10.17	-2.64	3.66	-0.60	2.40	-2.05	-12.06	0.82	0.91	0.11	5.97	-8.92	1.06	-1.54	-2.17	**-5.6**
2394	4289	2,4,7,11,17,21,27,26,31,34,36,39,41,40,42,47,50,54	-0.42	0.66	-1.65	-0.02	0.59	0.25	0.96	3.62	1.76	4.92	-1.15	-1.80	-0.68	-9.58	-3.11	2.28	-2.17	**-5.5**
2395	215	1,3,7,11,13,16,18,21,27,26,31,34,36,39,44,55	-3.35	0.14	1.11	-1.57	1.03	-1.46	-3.34	3.31	0.74	4.44	-1.27	-1.80	-1.34	-3.32	1.06	2.28	-2.17	**-5.5**
2396	443	1,3,7,11,17,18,20,23,27,28,34,36,39,41,43,47,49,53,54	-0.67	0.40	-3.36	1.15	1.29	-2.32	-1.19	8.87	0.17	9.05	-1.68	0.11	-4.10	-10.57	1.06	-1.54	-2.17	**-5.5**
2397	1853	1,6,10,16,20,23,27,28,34,38,43,47,46,48,51	-0.88	-2.19	-3.42	5.48	1.83	0.25	-1.91	-2.79	-0.83	-2.97	0.73	2.02	-6.87	0.96	2.45	-1.54	4.21	**-5.5**
2398	2675	2,4,3,6,10,13,17,19,22,25,29,36,35,37,42,47,50,54	-0.18	0.92	-2.55	-5.66	0.56	0.25	0.25	-8.05	-1.44	-2.13	-0.41	-1.80	3.06	15.78	-0.33	-1.54	-2.17	**-5.4**
2399	3227	2,4,3,6,9,11,13,15,23,26,31,34,38,43,47,46,48,51	-0.25	0.66	-0.40	4.31	0.36	-0.60	-1.19	2.05	0.77	-5.30	1.06	2.02	-2.12	-12.87	-0.33	2.28	4.21	**-5.3**
2400	2695	2,4,3,6,10,13,17,19,22,25,29,39,44,55	-2.69	-0.64	6.60	-8.95	-3.30	-4.03	-1.19	-8.19	-2.58	5.41	-1.93	-1.80	6.20	15.78	-0.33	-1.54	-2.17	**-5.3**
2401	1069	1,3,7,9,10,16,18,21,27,26,33,37,40,43,47,46,48,51	-0.22	0.40	-1.34	4.11	-4.19	2.82	0.96	-2.22	-3.71	-7.75	1.48	2.02	-2.12	3.26	1.06	2.28	-2.17	**-5.3**
2402	4972	2,4,7,9,8,14,30,31,34,35,37,42,46,48,52,53,54	2.32	-1.93	10.73	4.35	0.28	-2.32	5.26	-1.74	-13.87	-0.08	1.65	2.02	3.78	-8.92	-3.11	-1.54	-2.17	**-5.3**
2403	2118	1,6,9,11,13,16,18,21,27,26,31,34,38,40,42,46,48,52,53,54	-1.16	0.66	-3.61	3.69	3.87	0.25	-0.47	0.12	0.04	-8.19	1.36	0.11	-6.26	-4.64	2.45	2.28	4.21	**-5.3**
2404	366	1,3,7,11,13,16,20,23,27,28,34,38,43,47,46,48,52,53,54	-1.79	-1.15	-5.46	5.42	5.16	-1.46	-1.19	7.68	1.08	-3.34	0.47	0.11	-10.19	-4.31	1.06	-1.54	4.21	**-5.2**
2405	719	1,3,7,9,10,13,17,18,20,23,27,28,34,36,39,41,40,42,47,50,54	-0.26	1.18	-3.67	-0.51	1.00	-0.60	-1.19	1.83	1.42	9.91	-1.91	-1.80	-3.99	-3.98	1.06	-1.54	-2.17	**-5.2**
2406	881	1,3,7,9,10,13,17,21,28,34,38,43,47,46,48,51	-0.82	-0.64	-2.15	4.40	0.98	1.97	0.96	-0.75	-2.63	-6.46	1.15	2.02	-3.99	-2.99	1.06	-1.54	4.21	**-5.2**
2407	2285	1,6,9,11,17,18,20,23,26,31,34,36,39,41,40,42,47,50,54	-0.18	0.66	-2.66	0.92	-0.03	-0.60	-1.19	1.98	3.59	7.63	-1.42	-1.80	-2.80	-11.89	2.45	2.28	-2.17	**-5.2**
2408	2252	1,6,9,11,13,16,20,23,27,28,34,36,39,41,40,42,49,53,54	-0.51	-0.12	-3.36	1.00	2.31	-2.32	-2.62	4.06	-0.15	8.93	-1.55	0.11	-4.12	-5.63	2.45	-1.54	-2.17	**-5.2**
2409	670	1,3,7,9,10,13,17,18,20,23,26,31,34,36,39,41,43,50,54	-0.51	1.44	-3.44	-1.09	-0.28	-2.32	-1.19	1.83	2.83	7.53	-1.63	-1.80	-3.78	-3.98	1.06	2.28	-2.17	**-5.2**
2410	1420	1,6,10,13,17,19,22,25,29,36,35,37,40,43,50,54	-0.39	0.14	-2.65	-6.94	-0.19	1.11	0.25	-7.65	-1.44	-2.47	-0.45	-1.80	2.79	15.78	2.45	-1.54	-2.17	**-5.2**
2411	1789	1,6,10,16,20,23,26,31,34,36,39,41,43,47,49,53,54	-0.58	-0.12	-3.65	-0.66	1.07	-2.32	-3.34	-0.89	0.16	7.36	-1.38	0.11	-4.38	0.96	2.45	2.28	-2.17	**-5.1**
2412	2646	2,4,3,6,10,13,17,19,22,24,29,36,35,37,42,49,53,54	0.33	0.92	-2.24	-3.76	-1.24	-1.46	-1.19	-6.06	-2.01	-3.32	0.14	0.11	3.27	15.45	-0.33	-1.54	-2.17	**-5.1**
2413	3974	2,4,7,11,13,16,18,21,27,26,31,34,38,40,42,46,48,52,53,54	-1.42	0.66	-3.73	3.99	4.32	-0.60	0.25	4.52	0.35	-8.24	1.21	0.11	-6.57	-3.32	-3.11	2.28	4.21	**-5.1**
2414	3037	2,4,3,6,10,16,20,23,26,31,34,36,39,41,40,42,47,50,54	-0.28	0.66	-3.42	0.03	1.50	-1.46	-2.62	-3.38	2.49	7.95	-1.55	-1.80	-3.87	0.96	-0.33	2.28	-2.17	**-5.0**
2415	4141	2,4,7,11,17,18,20,23,26,31,34,36,39,41,40,42,47,50,54	-0.43	0.66	-2.78	1.22	0.42	-1.46	-0.47	6.39	3.91	7.58	-1.57	-1.80	-3.11	-10.57	-3.11	2.28	-2.17	**-5.0**
2416	4108	2,4,7,11,13,16,20,23,27,28,34,36,39,41,40,42,49,53,54	-0.76	-0.12	-3.48	1.30	2.76	-3.18	-1.91	8.47	0.17	8.88	-1.70	0.11	-4.43	-4.31	-3.11	-1.54	-2.17	**-5.0**
2417	1196	1,3,7,9,10,16,20,23,27,28,34,36,39,41,43,50,54	-0.91	-0.12	-4.13	-1.16	1.98	-2.32	-1.91	1.83	1.42	9.60	-2.01	-1.80	-5.11	2.28	1.06	-1.54	-2.17	**-5.0**
2418	1698	1,6,10,16,18,21,27,26,31,34,36,39,41,40,42,49,53,54	-0.32	0.40	-2.36	-2.29	1.02	-0.60	-1.91	-3.65	-1.98	4.50	-0.94	0.11	-1.47	1.95	2.45	2.28	-2.17	**-5.0**
2419	3507	2,4,3,6,9,11,13,16,20,23,27,28,34,36,39,41,43,47,49,53,54	-0.32	1.44	-3.25	2.22	3.03	-3.18	-2.62	3.66	-0.15	9.16	-1.53	0.11	-3.86	-5.63	-0.33	-1.54	-2.17	**-5.0**
2420	595	1,3,7,11,17,21,28,34,38,40,42,46,48,51	-1.10	-1.41	-1.72	5.51	0.97	1.97	1.68	4.21	-1.55	-6.95	1.18	2.02	-3.85	-9.58	1.06	-1.54	4.21	**-4.9**

Westar Energy- JEC to East Manhattan
345/230 kV Transmission Line Project
Table F-3: Weighted, Sorted Z-scores for All Routes

Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
2421	1262	1,6,10,12,14,30,31,34,35,37,42,49,53,54	-0.11	-2.45	-2.67	4.45	6.70	0.25	0.25	-2.07	-4.99	2.53	0.15	0.11	-3.72	-2.01	2.45	-1.54	-2.17	**-4.9**
2422	2187	1,6,9,11,13,16,20,23,26,31,34,35,37,40,43,47,46,48,51	-0.17	0.40	-1.76	7.42	-2.35	1.11	-1.19	0.70	0.40	-5.40	1.31	2.02	-4.25	-5.63	2.45	2.28	-2.17	**-4.8**
2423	1969	1,6,9,11,13,15,23,26,31,34,38,40,42,46,48,51	-0.44	-0.12	-0.50	3.09	-0.36	0.25	-1.19	2.45	0.77	-5.52	1.04	2.02	-2.38	-12.87	2.45	2.28	4.21	**-4.8**
2424	901	1,3,7,9,10,15,23,26,31,34,36,39,41,40,42,47,50,54	-0.30	1.18	-1.73	-4.62	-0.17	-0.60	-1.91	2.11	1.91	7.84	-1.82	-1.80	-1.08	-4.97	1.06	2.28	-2.17	**-4.8**
2425	253	1,3,7,11,13,16,18,21,28,34,35,37,40,43,47,46,48,51	-0.59	0.40	-1.25	6.27	-0.94	2.82	0.96	2.74	-2.84	-6.83	1.31	2.02	-2.86	-3.32	1.06	-1.54	-2.17	**-4.8**
2426	538	1,3,7,11,17,21,27,26,31,34,36,39,41,43,50,54	-0.78	0.40	-1.85	-0.81	0.10	-0.60	0.96	4.02	1.76	4.58	-1.17	-1.80	-1.18	-9.58	1.06	2.28	-2.17	**-4.8**
2427	1146	1,3,7,9,10,16,20,23,26,31,34,38,40,42,46,48,52,53,54	-1.54	-0.38	-5.55	2.97	3.48	-1.46	-1.91	2.72	1.42	-5.32	0.69	0.11	-9.84	2.28	1.06	2.28	4.21	**-4.8**
2428	2953	2,4,3,6,10,16,18,21,27,26,31,34,36,39,41,43,47,49,53,54	-0.14	1.96	-2.25	-1.07	1.74	-1.46	-1.91	-4.05	-1.98	4.72	-0.92	0.11	-1.21	1.95	-0.33	2.28	-2.17	**-4.7**
2429	3648	2,4,3,6,9,11,17,19,22,25,29,36,35,37,42,49,53,54	-0.26	0.66	-2.01	-4.41	0.63	-1.46	0.25	-1.01	-2.66	-3.19	-0.13	0.11	3.59	9.19	-0.33	-1.54	-2.17	**-4.7**
2430	2832	2,4,3,6,10,15,23,27,28,31,30,32,48,52,53,54	0.50	0.40	5.06	-11.55	-5.10	0.25	3.11	-6.05	2.85	0.20	-0.29	-3.71	7.61	0.96	-0.33	-1.54	2.94	**-4.7**
2431	2167	1,6,9,11,13,16,18,21,28,34,36,39,41,43,47,49,53,54	-0.56	0.92	-2.27	0.16	2.70	-0.60	-1.19	1.30	-2.29	5.72	-1.10	0.11	-1.68	-4.64	2.45	-1.54	-2.17	**-4.7**
2432	2124	1,6,9,11,13,16,18,21,27,26,31,34,38,43,47,46,48,52,53,54	-1.16	0.40	-3.60	4.09	4.09	0.25	-0.47	0.12	0.04	-7.99	1.37	0.11	-6.23	-4.64	2.45	2.28	4.21	**-4.7**
2433	4043	2,4,7,11,13,16,20,23,26,31,34,35,37,40,43,47,46,48,51	-0.43	0.40	-1.88	7.71	-1.91	0.25	-0.47	5.10	0.72	-5.45	1.16	2.02	-4.56	-4.31	-3.11	2.28	-2.17	**-4.6**
2434	3825	2,4,7,11,13,15,23,26,31,34,38,40,42,46,48,51	-0.69	-0.12	-0.62	3.38	0.08	-0.60	-0.47	6.86	1.09	-5.58	0.89	2.02	-2.69	-11.56	-3.11	2.28	4.21	**-4.6**
2435	3693	2,4,3,6,9,11,17,21,27,26,31,34,38,40,42,46,48,51	-0.24	0.66	-0.84	6.25	0.23	1.11	0.96	-0.99	-0.45	-8.16	1.64	2.02	-2.07	-10.90	-0.33	2.28	4.21	**-4.6**
2436	3415	2,4,3,6,9,11,13,16,18,21,28,34,36,39,41,40,42,47,50,54	-0.26	1.70	-2.04	0.84	3.13	0.25	-0.47	-1.18	0.03	6.32	-1.27	-1.80	-1.17	-4.64	-0.33	-1.54	-2.17	**-4.6**
2437	2858	2,4,3,6,10,15,23,27,28,34,36,39,41,43,47,46,48,52,53,54	2.22	0.66	4.42	2.02	-3.03	-3.18	-0.47	-3.09	-2.67	8.83	-0.80	0.11	0.77	-6.29	-0.33	-1.54	-2.17	**-4.6**
2438	1602	1,6,10,15,23,27,28,34,36,39,41,40,42,46,48,52,53,54	2.03	-0.64	4.31	0.80	-3.76	-2.32	-0.47	-2.69	-2.67	8.60	-0.82	0.11	0.50	-6.29	2.45	-1.54	-2.17	**-4.6**
2439	2766	2,4,3,6,10,13,17,21,28,34,36,39,41,40,42,46,48,52,53,54	2.11	0.40	3.89	4.37	-2.94	-1.46	1.68	-6.14	-3.90	5.22	-0.14	0.11	0.60	-4.31	-0.33	-1.54	-2.17	**-4.5**
2440	2539	2,4,3,6,10,12,14,30,33,37,40,43,47,49,53,54	0.26	-0.90	-2.53	5.56	5.63	1.11	0.96	-2.47	-6.20	2.86	0.15	0.11	-3.01	-2.01	-0.33	-1.54	-2.17	**-4.5**
2441	4023	2,4,7,11,13,16,18,21,28,34,36,39,41,43,47,49,53,54	-0.82	0.92	-2.39	0.46	3.15	-1.46	-0.47	5.71	-1.98	5.67	-1.25	0.11	-1.99	-3.32	-3.11	-1.54	-2.17	**-4.5**
2442	3980	2,4,7,11,13,16,18,21,27,26,31,34,38,43,47,46,48,52,53,54	-1.41	0.40	-3.71	4.39	4.54	-0.60	0.25	4.52	0.35	-8.04	1.22	0.11	-6.54	-3.32	-3.11	2.28	4.21	**-4.5**
2443	3351	2,4,3,6,9,11,13,16,18,21,27,26,31,34,35,37,40,43,47,46,48,51	0.27	2.48	-0.37	7.00	-1.68	1.97	0.25	-2.46	-1.74	-8.03	1.77	2.02	-1.08	-4.64	-0.33	2.28	-2.17	**-4.5**
2444	4867	2,4,7,9,10,16,18,21,28,34,38,40,42,46,48,51	-0.87	-0.38	-2.24	4.14	2.23	1.11	0.25	-1.15	-2.63	-6.63	1.09	2.02	-4.14	3.26	-3.11	-1.54	4.21	**-4.4**
2445	4532	2,4,7,9,10,13,17,19,22,25,29,36,35,37,42,49,53,54	-0.41	0.66	-2.67	-6.45	0.37	-1.46	0.25	-1.16	-3.42	-2.98	-0.33	0.11	2.88	17.10	-3.11	-1.54	-2.17	**-4.3**
2446	1423	1,6,10,13,17,19,22,25,29,36,35,37,42,47,50,54	-0.36	-0.12	-2.63	-6.49	0.06	1.11	0.25	-7.65	-1.44	-2.16	-0.43	-1.80	2.84	15.78	2.45	-1.54	-2.17	**-4.3**
2447	62	1,3,7,11,13,15,23,26,31,34,36,39,41,40,42,49,53,54	-0.51	0.66	-1.29	-2.96	0.12	-2.32	-1.91	9.15	0.66	6.79	-1.53	0.11	-0.90	-11.56	1.06	2.28	-2.17	**-4.3**
2448	439	1,3,7,11,17,18,20,23,27,28,34,36,39,41,40,42,47,50,54	-0.54	0.14	-3.22	1.01	1.21	-0.60	-0.47	6.78	2.49	9.62	-1.87	-1.80	-3.82	-10.57	1.06	-1.54	-2.17	**-4.3**
2449	601	1,3,7,11,17,21,28,34,38,43,47,46,48,51	-1.10	-1.67	-1.70	5.91	1.19	1.97	1.68	4.21	-1.55	-6.76	1.19	2.02	-3.82	-9.58	1.06	-1.54	4.21	**-4.3**
2450	390	1,3,7,11,17,18,20,23,26,31,34,36,39,41,43,50,54	-0.79	0.40	-2.98	0.42	-0.07	-2.32	-0.47	6.78	3.91	7.24	-1.59	-1.80	-3.61	-10.57	1.06	2.28	-2.17	**-4.3**
2451	3192	2,4,3,6,9,11,13,12,14,30,33,37,42,49,53,54	0.12	-1.41	-1.99	7.08	5.84	-0.60	1.68	2.49	-5.09	2.37	0.29	0.11	-2.49	-8.59	-0.33	-1.54	-2.17	**-4.3**
2452	4810	2,4,7,9,10,16,18,21,27,26,31,34,36,39,41,43,50,54	-0.54	1.44	-2.38	-2.19	1.36	-1.46	-0.47	-1.33	0.69	4.90	-1.27	-1.80	-1.46	3.26	-3.11	2.28	-2.17	**-4.2**
2453	2510	2,4,3,6,10,12,14,30,31,34,35,37,40,43,50,54	0.16	-0.90	-2.44	5.08	7.09	1.11	0.96	-4.56	-2.67	3.01	-0.04	-1.80	-3.22	-2.01	-0.33	-1.54	-2.17	**-4.2**
2454	4577	2,4,7,9,10,13,17,21,27,26,31,34,38,40,42,46,48,51	-0.39	0.66	-1.49	4.21	-0.03	1.11	0.96	-1.15	-1.21	-7.95	1.44	2.02	-2.78	-2.99	-3.11	2.28	4.21	**-4.2**
2455	1975	1,6,9,11,13,15,23,26,31,34,38,43,47,46,48,51	-0.43	-0.38	-0.49	3.48	-0.14	0.25	-1.19	2.45	0.77	-5.33	1.04	2.02	-2.34	-12.87	2.45	2.28	4.21	**-4.2**
2456	1443	1,6,10,13,17,19,22,25,29,39,44,55	-2.86	-1.67	6.52	-9.77	-3.81	-3.18	-1.19	-7.79	-2.58	5.38	-1.94	-1.80	5.97	15.78	2.45	-1.54	-2.17	**-4.2**
2457	291	1,3,7,11,13,16,20,23,26,31,34,35,37,42,46,48,51	-0.76	-0.38	-2.09	6.97	-2.36	-0.60	-0.47	5.50	0.72	-5.68	1.16	2.02	-5.04	-4.31	1.06	2.28	-2.17	**-4.2**
2458	1152	1,3,7,9,10,16,20,23,26,31,34,38,43,47,46,48,52,53,54	-1.54	-0.64	-5.53	3.37	3.70	-1.46	-1.91	2.72	1.42	-5.12	0.70	0.11	-9.80	2.28	1.06	2.28	4.21	**-4.2**
2459	4987	2,4,7,9,8,14,30,31,34,38,40,42,47,50,54	-0.21	-1.67	3.94	-1.04	8.26	0.25	3.11	-0.27	-9.75	1.38	0.32	0.11	0.83	-8.92	-3.11	-1.54	4.21	**-4.1**
2460	3545	2,4,3,6,9,11,17,18,20,23,26,31,34,38,40,42,46,48,51	-0.25	0.66	-1.97	7.49	0.06	-0.60	-0.47	1.77	1.69	-5.50	1.23	2.02	-4.51	-11.89	-0.33	2.28	4.21	**-4.1**
2461	4998	2,4,7,9,8,14,30,33,37,40,43,47,46,48,52,53,54	2.52	-1.67	10.78	4.64	-1.29	-0.60	5.98	-1.74	-15.07	0.22	1.63	2.02	4.26	-8.92	-3.11	-1.54	-2.17	**-4.1**
2462	1104	1,3,7,9,10,16,18,21,28,34,36,39,41,40,42,49,53,54	-0.68	0.40	-2.91	-2.20	2.26	-0.60	-1.19	1.15	-3.05	5.73	-1.33	0.11	-2.35	3.26	1.06	-1.54	-2.17	**-4.1**
2463	4396	2,4,7,9,10,12,14,30,33,37,40,43,50,54	-0.14	-1.41	-2.66	4.44	5.25	1.11	2.40	0.25	-3.53	3.04	-0.19	-1.80	-3.26	-0.69	-3.11	-1.54	-2.17	**-4.0**
2464	3831	2,4,7,11,13,15,23,26,31,34,38,43,47,46,48,51	-0.69	-0.38	-0.60	3.78	0.30	-0.60	-0.47	6.86	1.09	-5.38	0.89	2.02	-2.65	-11.56	-3.11	2.28	4.21	**-4.0**
2465	3699	2,4,3,6,9,11,17,21,27,26,31,34,38,43,47,46,48,51	-0.23	0.40	-0.82	6.65	0.45	1.11	0.96	-0.99	-0.45	-7.96	1.65	2.02	-2.04	-10.90	-0.33	2.28	4.21	**-4.0**
2466	1394	1,6,10,13,17,19,22,24,29,36,35,37,42,49,53,54	0.16	-0.12	-2.32	-4.58	-1.75	-0.60	-1.19	-5.66	-2.01	-3.35	0.12	0.11	3.04	15.45	2.45	-1.54	-2.17	**-4.0**
2467	4894	2,4,7,9,10,16,20,23,26,31,34,36,39,41,40,42,49,53,54	-0.51	0.40	-3.55	-0.76	1.30	-3.18	-2.62	3.51	0.51	7.11	-1.47	0.11	-4.05	2.28	-3.11	2.28	-2.17	**-3.9**
2468	341	1,3,7,11,13,16,20,23,27,28,34,35,37,40,43,47,46,48,51	-0.53	-0.12	-2.32	7.51	-1.12	1.11	-0.47	5.50	-0.70	-3.41	0.86	2.02	-5.26	-4.31	1.06	-1.54	-2.17	**-3.9**
2469	814	1,3,7,9,10,13,17,21,27,26,31,34,36,39,41,40,42,49,53,54	-0.20	1.44	-2.16	-2.14	0.00	-0.60	-0.47	1.15	-1.64	4.41	-0.97	0.11	-1.00	-2.99	1.06	2.28	-2.17	**-3.9**
2470	1785	1,6,10,16,20,23,26,31,34,36,39,41,40,42,47,50,54	-0.46	-0.38	-3.51	-0.80	0.99	-0.60	-2.62	-2.98	2.49	7.92	-1.57	-1.80	-4.10	0.96	2.45	2.28	-2.17	**-3.9**
2471	123	1,3,7,11,13,15,23,27,28,34,38,40,42,46,48,51	-0.80	-0.64	-1.06	3.18	0.87	0.25	-0.47	7.26	-0.33	-3.54	0.59	2.02	-3.39	-11.56	1.06	-1.54	4.21	**-3.9**
2472	3133	2,4,3,6,8,14,30,31,34,38,41,44,55	1.29	-2.19	9.75	-1.93	7.54	-2.32	1.68	-5.79	-11.11	1.01	0.90	0.11	5.09	-10.24	-0.33	-1.54	4.21	**-3.9**
2473	1238	1,3,7,9,8,14,30,31,34,38,43,50,54	-0.57	-2.45	3.73	-1.84	7.78	-0.60	3.11	0.13	-9.75	1.04	0.30	0.11	0.33	-8.92	1.06	-1.54	4.21	**-3.9**
2474	2255	1,6,9,11,13,16,20,23,27,28,34,36,39,41,43,47,49,53,54	-0.50	0.40	-3.34	1.40	2.53	-2.32	-2.62	4.06	-0.15	9.13	-1.55	0.11	-4.08	-5.63	2.45	-1.54	-2.17	**-3.8**
2475	3112	2,4,3,6,8,14,30,31,34,35,37,40,43,47,46,48,52,53,54	2.82	-0.64	11.00	5.27	0.55	-0.60	4.55	-6.55	-14.21	0.20	1.78	2.02	4.30	-10.24	-0.33	-1.54	-2.17	**-3.8**

Table F-3: Weighted, Sorted Z-scores for All Routes

		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
2476	4873	2,4,7,9,10,16,18,21,28,34,38,43,47,46,48,51	-0.86	-0.64	-2.23	4.54	2.45	1.11	0.25	-1.15	-2.63	-6.44	1.09	2.02	-4.10	3.26	-3.11	-1.54	4.21	**-3.8**
2477	3503	2,4,3,6,9,11,13,16,20,23,27,28,34,36,39,41,40,42,47,50,54	-0.20	1.18	-3.11	2.08	2.95	-1.46	-1.91	1.58	2.18	9.73	-1.72	-1.80	-3.58	-5.63	-0.33	-1.54	-2.17	**-3.7**
2478	3454	2,4,3,6,9,11,13,16,20,23,26,31,34,36,39,41,43,50,54	-0.45	1.44	-2.88	1.49	1.68	-3.18	-1.91	1.58	3.59	7.36	-1.44	-1.80	-3.36	-5.63	-0.33	2.28	-2.17	**-3.7**
2479	4429	2,4,7,9,10,13,17,18,20,23,26,31,34,38,40,42,46,48,51	-0.40	0.66	-2.62	5.44	-0.20	-0.60	-0.47	1.62	0.93	-5.29	1.02	2.02	-5.21	-3.98	-3.11	2.28	4.21	**-3.7**
2480	4111	2,4,7,11,13,16,20,23,27,28,34,36,39,41,43,47,49,53,54	-0.76	0.40	-3.46	1.69	2.98	-3.18	-1.91	8.47	0.17	9.08	-1.70	0.11	-4.39	-4.31	-3.11	-1.54	-2.17	**-3.6**
2481	1246	1,3,7,9,8,14,30,33,37,42,46,48,52,53,54	2.20	-2.45	10.57	3.90	-1.75	-1.46	5.98	-1.34	-15.07	-0.01	1.63	2.02	3.78	-8.92	1.06	-1.54	-2.17	**-3.6**
2482	1701	1,6,10,16,18,21,27,26,31,34,36,39,41,43,47,49,53,54	-0.32	0.92	-2.34	-1.89	1.24	-0.60	-1.91	-3.65	-1.98	4.69	-0.93	0.11	-1.44	1.95	2.45	2.28	-2.17	**-3.6**
2483	2396	1,6,9,11,17,19,22,25,29,36,35,37,42,49,53,54	-0.44	-0.38	-2.10	-5.23	0.13	-0.60	0.25	-0.61	-2.66	-3.22	-0.14	0.11	3.37	9.19	2.45	-1.54	-2.17	**-3.6**
2484	4583	2,4,7,9,10,13,17,21,27,26,31,34,38,43,47,46,48,51	-0.38	0.40	-1.48	4.60	0.19	1.11	0.96	-1.15	-1.21	-7.75	1.45	2.02	-2.75	-2.99	-3.11	2.28	4.21	**-3.6**
2485	1580	1,6,10,15,23,27,28,31,30,32,48,52,53,54	0.32	-0.64	4.97	-12.38	-5.60	1.11	3.11	-5.65	2.85	0.17	-0.31	-3.71	7.39	0.96	2.45	-1.54	2.94	**-3.6**
2486	2744	2,4,3,6,10,13,17,21,28,31,30,32,48,52,53,54	0.40	0.40	4.54	-8.81	-4.78	1.97	5.26	-9.09	1.62	-3.22	0.37	-3.71	7.48	2.94	-0.33	-1.54	2.94	**-3.6**
2487	2949	2,4,3,6,10,16,18,21,27,26,31,34,36,39,41,40,42,47,50,54	-0.02	1.70	-2.11	-1.21	1.67	0.25	-1.19	-6.14	0.34	5.29	-1.11	-1.80	-0.93	1.95	-0.33	2.28	-2.17	**-3.5**
2488	4955	2,4,7,9,10,16,20,23,27,28,34,38,40,42,46,48,51	-0.81	-0.90	-3.32	5.38	2.06	-0.60	-1.19	1.62	-0.48	-3.22	0.64	2.02	-6.54	2.28	-3.11	-1.54	4.21	**-3.5**
2489	3551	2,4,3,6,9,11,17,18,20,23,26,31,34,38,43,47,46,48,51	-0.25	0.40	-1.95	7.88	0.28	-0.60	-0.47	1.77	1.69	-5.30	1.23	2.02	-4.47	-11.89	-0.33	2.28	4.21	**-3.5**
2490	317	1,3,7,11,13,16,20,23,26,33,37,40,43,47,46,48,51	-0.55	-0.64	-2.05	7.26	-3.93	1.11	0.25	5.50	-0.49	-5.38	1.14	2.02	-4.56	-4.31	1.06	2.28	-2.17	**-3.5**
2491	2441	1,6,9,11,17,21,27,26,31,34,38,40,42,46,48,51	-0.41	-0.38	-0.92	5.42	-0.27	1.97	0.96	-0.59	-0.45	-8.19	1.63	2.02	-2.30	-10.90	2.45	2.28	4.21	**-3.5**
2492	2163	1,6,9,11,13,16,18,21,28,34,36,39,41,40,42,47,50,54	-0.44	0.66	-2.13	0.02	2.62	1.11	-0.47	-0.78	0.03	6.29	-1.29	-1.80	-1.39	-4.64	2.45	-1.54	-2.17	**-3.5**
2493	1606	1,6,10,15,23,27,28,34,36,39,41,43,47,46,48,52,53,54	2.04	-0.38	4.33	1.20	-3.54	-2.32	-0.47	-2.69	-2.67	8.80	-0.81	0.11	0.54	-6.29	2.45	-1.54	-2.17	**-3.4**
2494	4252	2,4,7,11,17,19,22,25,29,36,35,37,42,49,53,54	-0.69	-0.38	-2.22	-4.94	0.58	-1.46	0.96	3.80	-2.34	-3.27	-0.29	0.11	3.06	10.51	-3.11	-1.54	-2.17	**-3.4**
2495	2770	2,4,3,6,10,13,17,21,28,34,36,39,41,43,47,46,48,52,53,54	2.12	0.66	3.91	4.76	-2.72	-1.46	1.68	-6.14	-3.90	5.42	-0.13	0.11	0.64	-4.31	-0.33	-1.54	-2.17	**-3.4**
2496	1514	1,6,10,13,17,21,28,34,36,39,41,40,42,46,48,52,53,54	1.94	-0.64	3.80	3.54	-3.44	-0.60	1.68	-5.74	-3.90	5.19	-0.15	0.11	0.38	-4.31	2.45	-1.54	-2.17	**-3.4**
2497	666	1,3,7,9,10,13,17,18,20,23,26,31,34,36,39,41,40,42,49,53,54	-0.22	1.44	-3.29	-0.90	-0.17	-2.32	-1.91	3.91	0.51	7.08	-1.39	0.11	-3.43	-3.98	1.06	2.28	-2.17	**-3.4**
2498	1287	1,6,10,12,14,30,33,37,40,43,47,49,53,54	0.09	-1.93	-2.62	4.74	5.13	1.97	0.96	-2.07	-6.20	2.83	0.14	0.11	-3.23	-2.01	2.45	-1.54	-2.17	**-3.4**
2499	2513	2,4,3,6,10,12,14,30,31,34,35,37,42,47,50,54	0.19	-1.15	-2.42	5.53	7.34	1.11	0.96	-4.56	-2.67	3.32	-0.02	-1.80	-3.17	-2.01	-0.33	-1.54	-2.17	**-3.4**
2500	2642	2,4,3,6,10,13,17,19,22,24,29,36,35,37,40,43,50,54	0.43	1.44	-2.09	-3.95	-1.35	0.25	-0.47	-8.14	0.32	-2.86	-0.07	-1.80	3.54	15.45	-0.33	-1.54	-2.17	**-3.3**
2501	2099	1,6,9,11,13,16,18,21,27,26,31,34,35,37,40,43,47,46,48,51	0.09	1.44	-0.45	6.18	-2.18	2.82	0.25	-2.06	-1.74	-8.06	1.76	2.02	-1.30	-4.64	2.45	2.28	-2.17	**-3.3**
2502	4297	2,4,7,11,17,21,27,26,31,34,38,40,42,46,48,51	-0.67	-0.38	-1.04	5.72	0.18	1.11	1.68	3.81	-0.14	-8.24	1.48	2.02	-2.61	-9.58	-3.11	2.28	4.21	**-3.3**
2503	4019	2,4,7,11,13,16,18,21,28,34,36,39,41,40,42,47,50,54	-0.69	0.66	-2.25	0.32	3.07	0.25	0.25	3.62	0.35	6.24	-1.44	-1.80	-1.70	-3.32	-3.11	-1.54	-2.17	**-3.3**
2504	129	1,3,7,11,13,15,23,27,28,34,38,43,47,46,48,51	-0.79	-0.90	-1.04	3.57	1.09	0.25	-0.47	7.26	-0.33	-3.34	0.59	2.02	-3.36	-11.56	1.06	-1.54	4.21	**-3.3**
2505	1058	1,3,7,9,10,16,18,21,27,26,31,34,38,40,42,46,48,52,53,54	-1.28	0.66	-4.24	1.73	3.65	0.25	-0.47	-0.04	-0.72	-7.98	1.14	0.11	-6.90	3.26	1.06	2.28	4.21	**-3.3**
2506	1192	1,3,7,9,10,16,20,23,27,28,34,36,39,41,40,42,49,53,54	-0.62	-0.12	-3.99	-0.96	2.09	-2.32	-2.62	3.91	-0.91	9.14	-1.77	0.11	-4.76	2.28	1.06	-1.54	-2.17	**-3.2**
2507	4399	2,4,7,9,10,12,14,30,33,37,42,47,50,54	-0.11	-1.67	-2.64	4.89	5.50	1.11	2.40	0.25	-3.53	3.34	-0.17	-1.80	-3.21	-0.69	-3.11	-1.54	-2.17	**-3.2**
2508	2834	2,4,3,6,10,15,23,27,28,31,33,37,40,41,45,55	2.54	0.40	1.40	-1.32	-0.79	1.97	-1.19	-2.07	3.34	2.84	0.22	-1.80	1.64	-6.29	-0.33	-1.54	-2.17	**-3.2**
2509	3955	2,4,7,11,13,16,18,21,27,26,31,34,35,37,40,43,47,46,48,51	-0.16	1.44	-0.57	6.47	-1.73	1.97	0.96	2.34	-1.43	-8.11	1.61	2.02	-1.61	-3.32	-3.11	2.28	-2.17	**-3.1**
2510	1940	1,6,9,11,13,12,14,30,33,37,42,49,53,54	-0.05	-2.45	-2.08	6.26	5.34	0.25	1.68	2.88	-5.09	2.34	0.27	0.11	-2.72	-8.59	2.45	-1.54	-2.17	**-3.1**
2511	1258	1,6,10,12,14,30,31,34,35,37,40,43,50,54	-0.02	-1.93	-2.52	4.26	6.59	1.97	0.96	-4.16	-2.67	2.99	-0.05	-1.80	-3.44	-2.01	2.45	-1.54	-2.17	**-3.1**
2512	2671	2,4,3,6,10,13,17,19,22,25,29,36,35,37,40,43,47,49,53,54	0.08	1.70	-2.40	-5.53	0.64	0.25	-0.47	-5.97	-3.76	-2.70	-0.19	0.11	3.41	15.78	-0.33	-1.54	-2.17	**-3.1**
2513	4435	2,4,7,9,10,13,17,18,20,23,26,31,34,38,43,47,46,48,51	-0.40	0.40	-2.61	5.84	0.02	-0.60	-0.47	1.62	0.93	-5.09	1.03	2.02	-5.18	-3.98	-3.11	2.28	4.21	**-3.1**
2514	3644	2,4,3,6,9,11,17,19,22,25,29,36,35,37,40,43,50,54	-0.16	1.18	-1.87	-4.60	0.52	0.25	0.96	-3.09	-0.33	-2.73	-0.34	-1.80	3.87	9.19	-0.33	-1.54	-2.17	**-3.0**
2515	727	1,3,7,9,10,13,17,18,20,23,27,28,34,38,40,42,46,48,51	-0.51	0.14	-3.06	5.24	0.59	0.25	-0.47	2.02	-0.48	-3.25	0.72	2.02	-5.92	-3.98	1.06	-1.54	4.21	**-3.0**
2516	2293	1,6,9,11,17,18,20,23,26,31,34,38,40,42,46,48,51	-0.43	-0.38	-2.05	6.66	-0.44	0.25	-0.47	2.17	1.69	-5.53	1.21	2.02	-4.73	-11.89	2.45	2.28	4.21	**-3.0**
2517	534	1,3,7,11,17,21,27,26,31,34,36,39,41,40,42,49,53,54	-0.48	0.40	-1.71	-0.62	0.21	-0.60	0.25	6.11	-0.56	4.12	-0.93	0.11	-0.82	-9.58	1.06	2.28	-2.17	**-3.0**
2518	3796	2,4,7,11,13,12,14,30,33,37,42,49,53,54	-0.31	-2.45	-2.20	6.56	5.79	-0.60	2.40	7.29	-4.78	2.29	0.12	0.11	-3.03	-7.27	-3.11	-1.54	-2.17	**-2.9**
2519	65	1,3,7,11,13,15,23,26,31,34,36,39,41,43,47,49,53,54	-0.50	1.18	-1.27	-2.56	0.34	-2.32	-1.91	9.15	0.66	6.98	-1.52	0.11	-0.86	-11.56	1.06	2.28	-2.17	**-2.9**
2520	4961	2,4,7,9,10,16,20,23,27,28,34,38,43,47,46,48,51	-0.80	-1.15	-3.30	5.78	2.28	-0.60	-1.19	1.62	-0.48	-3.02	0.65	2.02	-6.51	2.28	-3.11	-1.54	4.21	**-2.9**
2521	2447	1,6,9,11,17,21,27,26,31,34,38,43,47,46,48,51	-0.41	-0.64	-0.91	5.82	-0.05	1.97	0.96	-0.59	-0.45	-7.99	1.64	2.02	-2.26	-10.90	2.45	2.28	4.21	**-2.8**
2522	1127	1,3,7,9,10,16,20,23,26,31,34,35,37,40,43,47,46,48,51	-0.28	0.40	-2.39	5.45	-2.57	1.11	-1.19	0.54	-0.36	-5.19	1.09	2.02	-4.88	2.28	1.06	2.28	-2.17	**-2.8**
2523	3045	2,4,3,6,10,16,20,23,26,31,34,38,40,42,46,48,51	-0.53	-0.38	-2.82	5.77	1.09	-0.60	-1.91	-3.19	0.59	-5.21	1.08	2.02	-5.80	0.96	-0.33	2.28	4.21	**-2.8**
2524	4149	2,4,7,11,17,18,20,23,26,31,34,38,40,42,46,48,51	-0.68	-0.38	-2.17	6.96	0.01	-0.60	0.25	6.57	2.01	-5.58	1.06	2.02	-5.04	-10.57	-3.11	2.28	4.21	**-2.8**
2525	1881	1,6,8,14,30,31,34,38,41,44,55	1.12	-3.23	9.66	-2.75	7.04	-1.46	1.68	-5.39	-11.11	0.98	0.88	0.11	4.86	-10.24	2.45	-1.54	4.21	**-2.7**
2526	1107	1,3,7,9,10,16,18,21,28,34,36,39,41,43,47,49,53,54	-0.67	0.92	-2.90	-1.80	2.48	-0.60	-1.19	1.15	-3.05	5.93	-1.32	0.11	-2.31	3.26	1.06	-1.54	-2.17	**-2.7**
2527	1860	1,6,8,14,30,31,34,35,37,40,43,47,46,48,52,53,54	2.65	-1.67	10.91	4.45	0.05	0.25	4.55	-6.15	-14.21	0.17	1.77	2.02	4.08	-10.24	2.45	-1.54	-2.17	**-2.7**
2528	203	1,3,7,11,13,16,18,21,27,26,31,34,35,37,42,46,48,51	-0.49	0.66	-0.78	5.74	-2.19	1.11	0.96	2.74	-1.43	-8.34	1.61	2.02	-2.10	-3.32	1.06	2.28	-2.17	**-2.7**
2529	4303	2,4,7,11,17,21,27,26,31,34,38,43,47,46,48,51	-0.66	-0.64	-1.03	6.12	0.40	1.11	1.68	3.81	-0.14	-8.04	1.49	2.02	-2.57	-9.58	-3.11	2.28	4.21	**-2.7**
2530	1064	1,3,7,9,10,16,18,21,27,26,31,34,38,43,47,46,48,52,53,54	-1.27	0.40	-4.23	2.13	3.87	0.25	-0.47	-0.04	-0.72	-7.78	1.14	0.11	-6.86	3.26	1.06	2.28	4.21	**-2.6**

Table F-3: Weighted, Sorted Z-scores for All Routes

		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
2531	4528	2,4,7,9,10,13,17,19,22,25,29,36,35,37,40,43,50,54	-0.32	1.18	-2.53	-6.64	0.26	0.25	0.96	-3.25	-1.09	-2.52	-0.54	-1.80	3.16	17.10	-3.11	-1.54	-2.17	**-2.6**
2532	2251	1,6,9,11,13,16,20,23,27,28,34,36,39,41,40,42,47,50,54	-0.37	0.14	-3.20	1.26	2.45	-0.60	-1.91	1.98	2.18	9.70	-1.73	-1.80	-3.80	-5.63	2.45	-1.54	-2.17	**-2.6**
2533	2202	1,6,9,11,13,16,20,23,26,31,34,36,39,41,43,50,54	-0.62	0.40	-2.97	0.67	1.17	-2.32	-1.91	1.98	3.59	7.33	-1.45	-1.80	-3.59	-5.63	2.45	2.28	-2.17	**-2.6**
2534	4897	2,4,7,9,10,16,20,23,26,31,34,36,39,41,43,47,49,53,54	-0.51	0.92	-3.53	-0.36	1.52	-3.18	-2.62	3.51	0.51	7.30	-1.47	0.11	-4.01	2.28	-3.11	2.28	-2.17	**-2.5**
2535	909	1,3,7,9,10,15,23,26,31,34,38,40,42,46,48,51	-0.55	0.14	-1.13	1.12	-0.58	0.25	-1.19	2.30	0.01	-5.32	0.81	2.02	-3.01	-4.97	1.06	2.28	4.21	**-2.5**
2536	268	1,3,7,11,13,16,18,21,28,34,36,39,41,43,50,54	-1.05	0.40	-2.45	-0.48	2.58	-0.60	0.25	4.02	0.35	5.90	-1.46	-1.80	-2.20	-3.32	1.06	-1.54	-2.17	**-2.5**
2537	3188	2,4,3,6,9,11,13,12,14,30,33,37,40,43,50,54	0.22	-0.90	-1.85	6.89	5.74	1.11	2.40	0.40	-2.77	2.83	0.08	-1.80	-2.22	-8.59	-0.33	-1.54	-2.17	**-2.5**
2538	817	1,3,7,9,10,13,17,21,27,26,31,34,36,39,41,43,47,49,53,54	-0.20	1.96	-2.15	-1.74	0.22	-0.60	-0.47	1.15	-1.64	4.61	-0.97	0.11	-0.96	-2.99	1.06	2.28	-2.17	**-2.5**
2539	2645	2,4,3,6,10,13,17,19,22,24,29,36,35,37,42,47,50,54	0.46	1.18	-2.08	-3.50	-1.10	0.25	-0.47	-8.14	0.32	-2.55	-0.05	-1.80	3.59	15.45	-0.33	-1.54	-2.17	**-2.5**
2540	386	1,3,7,11,17,18,20,23,26,31,34,36,39,41,40,42,49,53,54	-0.50	0.40	-2.84	0.62	0.04	-2.32	-1.19	8.87	1.58	6.79	-1.35	0.11	-3.25	-10.57	1.06	2.28	-2.17	**-2.4**
2541	4806	2,4,7,9,10,16,18,21,27,26,31,34,36,39,41,43,47,49,53,54	-0.25	1.44	-2.24	-2.00	1.47	-1.46	-1.19	0.75	-1.64	4.44	-1.03	0.11	-1.11	3.26	-3.11	2.28	-2.17	**-2.4**
2542	1492	1,6,10,13,17,21,28,31,30,32,48,52,53,54	0.22	-0.64	4.46	-9.63	-5.28	2.82	5.26	-8.69	1.62	-3.25	0.36	-3.71	7.26	2.94	2.45	-1.54	2.94	**-2.4**
2543	4107	2,4,7,11,13,16,20,23,27,28,34,36,39,41,40,42,47,50,54	-0.63	0.14	-3.32	1.55	2.90	-1.46	-1.19	6.39	2.49	9.65	-1.88	-1.80	-4.11	-4.31	-3.11	-1.54	-2.17	**-2.4**
2544	4058	2,4,7,11,13,16,20,23,26,31,34,36,39,41,43,50,54	-0.88	0.40	-3.09	0.97	1.62	-3.18	-1.19	6.39	3.91	7.27	-1.60	-1.80	-3.90	-4.31	-3.11	2.28	-2.17	**-2.4**
2545	1697	1,6,10,16,18,21,27,26,31,34,36,39,41,40,42,47,50,54	-0.19	0.66	-2.20	-2.03	1.16	1.11	-1.19	-5.74	0.34	5.26	-1.12	-1.80	-1.15	1.95	2.45	2.28	-2.17	**-2.4**
2546	2665	2,4,3,6,10,13,17,19,22,24,29,39,44,55	-2.04	-0.38	7.07	-6.78	-4.97	-4.03	-1.91	-8.28	-0.82	4.99	-1.56	-1.80	6.72	15.45	-0.33	-1.54	-2.17	**-2.4**
2547	733	1,3,7,9,10,13,17,18,20,23,27,28,34,38,43,47,46,48,51	-0.51	-0.12	-3.05	5.63	0.81	0.25	-0.47	2.02	-0.48	-3.05	0.73	2.02	-5.88	-3.98	1.06	-1.54	4.21	**-2.4**
2548	2299	1,6,9,11,17,18,20,23,26,31,34,38,43,47,46,48,51	-0.42	-0.64	-2.04	7.06	-0.22	0.25	-0.47	2.17	1.69	-5.33	1.22	2.02	-4.69	-11.89	2.45	2.28	4.21	**-2.3**
2549	3423	2,4,3,6,9,11,13,16,18,21,28,34,38,40,42,46,48,51	-0.51	0.66	-1.43	6.59	2.71	1.11	0.25	-0.99	-1.86	-6.84	1.36	2.02	-3.10	-4.64	-0.33	-1.54	4.21	**-2.3**
2550	4370	2,4,7,9,10,12,14,30,31,34,35,37,42,49,53,54	-0.04	-1.41	-2.55	4.75	7.15	-0.60	0.96	2.33	-4.65	2.47	0.07	0.11	-3.35	-0.69	-3.11	-1.54	-2.17	**-2.3**
2551	1518	1,6,10,13,17,21,28,34,36,39,41,43,47,46,48,52,53,54	1.94	-0.38	3.82	3.94	-3.22	-0.60	1.68	-5.74	-3.90	5.39	-0.14	0.11	0.41	-4.31	2.45	-1.54	-2.17	**-2.3**
2552	1261	1,6,10,12,14,30,31,34,35,37,42,47,50,54	0.02	-2.19	-2.51	4.71	6.84	1.97	0.96	-4.16	-2.67	3.29	-0.03	-1.80	-3.40	-2.01	2.45	-1.54	-2.17	**-2.2**
2553	3366	2,4,3,6,9,11,13,16,18,21,27,26,31,34,36,39,41,43,50,54	-0.18	2.48	-1.57	0.26	1.85	-1.46	-0.47	-1.18	1.45	4.70	-0.99	-1.80	-0.42	-4.64	-0.33	2.28	-2.17	**-2.2**
2554	1390	1,6,10,13,17,19,22,24,29,36,35,37,40,43,50,54	0.25	0.40	-2.18	-4.77	-1.85	1.11	-0.47	-7.74	0.32	-2.89	-0.08	-1.80	3.32	15.45	2.45	-1.54	-2.17	**-2.2**
2555	3051	2,4,3,6,10,16,20,23,26,31,34,38,43,47,46,48,51	-0.52	-0.64	-2.81	6.17	1.30	-0.60	-1.91	-3.19	0.59	-5.01	1.08	2.02	-5.76	0.96	-0.33	2.28	4.21	**-2.2**
2556	4155	2,4,7,11,17,18,20,23,26,31,34,38,43,47,46,48,51	-0.68	-0.64	-2.16	7.36	0.23	-0.60	0.25	6.57	2.01	-5.38	1.07	2.02	-5.00	-10.57	-3.11	2.28	4.21	**-2.2**
2557	3647	2,4,3,6,9,11,17,19,22,25,29,36,35,37,42,47,50,54	-0.13	0.92	-1.86	-4.15	0.77	0.25	0.96	-3.09	-0.33	-2.42	-0.31	-1.80	3.91	9.19	-0.33	-1.54	-2.17	**-2.1**
2558	2788	2,4,3,6,10,15,23,26,30,32,48,52,53,54	0.39	0.40	5.38	-11.69	-6.12	0.25	3.11	-6.05	4.26	-2.02	-0.04	-3.71	7.92	0.96	-0.33	2.28	2.94	**-2.1**
2559	447	1,3,7,11,17,18,20,23,27,28,34,38,40,42,46,48,51	-0.79	-0.90	-2.61	6.75	0.80	0.25	0.25	6.97	0.60	-3.54	0.76	2.02	-5.75	-10.57	1.06	-1.54	4.21	**-2.0**
2560	1582	1,6,10,15,23,27,28,31,33,37,40,41,45,55	2.36	-0.64	1.31	-2.15	-1.29	2.82	-1.19	-1.67	3.34	2.81	0.21	-1.80	1.41	-6.29	2.45	-1.54	-2.17	**-2.0**
2561	3667	2,4,3,6,9,11,17,19,22,25,29,39,44,55	-2.63	-0.64	7.30	-7.43	-3.10	-4.03	-0.47	-3.23	-1.47	5.12	-1.83	-1.80	7.05	9.19	-0.33	-1.54	-2.17	**-2.0**
2562	2746	2,4,3,6,10,13,17,21,28,31,33,37,40,41,45,55	2.44	0.40	0.89	1.42	-0.47	3.68	0.96	-5.11	2.12	-0.57	0.89	-1.80	1.51	-4.31	-0.33	-1.54	-2.17	**-2.0**
2563	669	1,3,7,9,10,13,17,18,20,23,26,31,34,36,39,41,43,47,49,53,54	-0.21	1.96	-3.28	-0.50	0.05	-2.32	-1.91	3.91	0.51	7.27	-1.39	0.11	-3.39	-3.98	1.06	2.28	-2.17	**-2.0**
2564	4710	2,4,7,9,10,15,23,27,28,34,36,39,41,40,42,46,48,52,53,54	2.11	0.40	4.43	1.10	-3.31	-3.18	0.25	1.71	-2.33	8.55	-0.90	0.11	0.87	-4.97	-3.11	-1.54	-2.17	**-2.0**
2565	229	1,3,7,11,13,16,18,21,27,26,33,37,40,43,47,46,48,51	-0.29	0.40	-0.74	6.02	-3.76	2.82	1.68	2.74	-2.64	-8.04	1.59	2.02	-1.62	-3.32	1.06	2.28	-2.17	**-2.0**
2566	1419	1,6,10,13,17,19,22,25,29,36,35,37,40,43,47,49,53,54	-0.09	0.66	-2.49	-6.35	0.14	1.11	-0.47	-5.57	-3.76	-2.73	-0.21	0.11	3.18	15.78	2.45	-1.54	-2.17	**-2.0**
2567	915	1,3,7,9,10,15,23,26,31,34,38,43,47,46,48,51	-0.54	-0.12	-1.12	1.52	-0.36	0.25	-1.19	2.30	0.01	-5.12	0.82	2.02	-2.98	-4.97	1.06	2.28	4.21	**-1.9**
2568	2912	2,4,3,6,10,16,18,19,22,25,29,36,35,37,42,49,53,54	-0.29	0.14	-2.69	-6.12	1.65	-1.46	-1.19	-5.97	-3.76	-2.90	-0.25	0.11	2.81	22.04	-0.33	-1.54	-2.17	**-1.9**
2569	3450	2,4,3,6,9,11,13,16,20,23,26,31,34,36,39,41,40,42,49,53,54	-0.15	1.44	-2.74	1.69	1.78	-3.18	-2.62	3.66	1.27	6.90	-1.20	0.11	-3.01	-5.63	-0.33	2.28	-2.17	**-1.9**
2570	2392	1,6,9,11,17,19,22,25,29,36,35,37,40,43,50,54	-0.34	0.14	-1.96	-5.43	0.02	1.11	0.96	-2.69	-0.33	-2.76	-0.35	-1.80	3.64	9.19	2.45	-1.54	-2.17	**-1.8**
2571	1195	1,3,7,9,10,16,20,23,27,28,34,36,39,41,43,47,49,53,54	-0.61	0.40	-3.97	-0.57	2.31	-2.32	-2.62	3.91	-0.91	9.34	-1.77	0.11	-4.72	2.28	1.06	-1.54	-2.17	**-1.8**
2572	3618	2,4,3,6,9,11,17,19,22,24,29,36,35,37,42,49,53,54	0.38	0.92	-1.55	-2.24	-1.03	-1.46	-0.47	-1.10	-0.90	-3.61	0.24	0.11	4.12	8.86	-0.33	-1.54	-2.17	**-1.8**
2573	4531	2,4,7,9,10,13,17,19,22,25,29,36,35,37,42,47,50,54	-0.28	0.92	-2.51	-6.19	0.51	0.25	0.96	-3.25	-1.09	-2.22	-0.51	-1.80	3.21	17.10	-3.11	-1.54	-2.17	**-1.7**
2574	3429	2,4,3,6,9,11,13,16,18,21,28,34,38,43,47,46,48,51	-0.50	0.40	-1.42	6.98	2.93	1.11	0.25	-0.99	-1.86	-6.64	1.36	2.02	-3.06	-4.64	-0.33	-1.54	4.21	**-1.7**
2575	61	1,3,7,11,13,15,23,26,31,34,36,39,41,40,42,47,50,54	-0.37	0.92	-1.13	-2.70	0.26	-0.60	-1.19	7.07	2.99	7.55	-1.71	-1.80	-0.58	-11.56	1.06	2.28	-2.17	**-1.7**
2576	2618	2,4,3,6,10,13,17,18,20,23,27,28,34,36,39,41,40,42,46,48,52,53,54	2.42	0.92	3.00	5.60	-3.11	-3.18	0.25	-3.38	-1.75	8.63	-0.56	0.11	-1.29	-5.30	-0.33	-1.54	-2.17	**-1.7**
2577	4248	2,4,7,11,17,19,22,25,29,36,35,37,40,43,50,54	-0.60	0.14	-2.08	-5.13	0.47	0.25	1.68	1.71	-0.02	-2.81	-0.50	-1.80	3.33	10.51	-3.11	-1.54	-2.17	**-1.7**
2578	356	1,3,7,11,13,16,20,23,27,28,34,36,39,41,43,50,54	-0.99	-0.12	-3.53	0.76	2.41	-2.32	-1.19	6.78	2.49	9.31	-1.90	-1.80	-4.61	-4.31	1.06	-1.54	-2.17	**-1.6**
2579	3191	2,4,3,6,9,11,13,12,14,30,33,37,42,47,50,54	0.25	-1.15	-1.84	7.34	5.99	1.11	2.40	0.40	-2.77	3.13	0.10	-1.80	-2.17	-8.59	-0.33	-1.54	-2.17	**-1.6**
2580	1793	1,6,10,16,20,23,26,31,34,38,40,42,46,48,51	-0.71	-1.41	-2.91	4.95	0.58	0.25	-1.91	-2.79	0.59	-5.24	1.06	2.02	-6.02	0.96	2.45	2.28	4.21	**-1.6**
2581	4551	2,4,7,9,10,13,17,19,22,25,29,39,44,55	-2.79	-0.64	6.64	-9.47	-3.36	-4.03	-0.47	-3.38	-2.23	5.33	-2.03	-1.80	6.34	17.10	-3.11	-1.54	-2.17	**-1.6**
2582	537	1,3,7,11,17,21,27,26,31,34,36,39,41,43,47,49,53,54	-0.48	0.92	-1.70	-0.22	0.43	-0.60	0.25	6.11	-0.56	4.32	-0.93	0.11	-0.79	-9.58	1.06	2.28	-2.17	**-1.6**
2583	1232	1,3,7,9,8,14,30,31,34,38,40,42,49,53,54	-0.27	-1.93	3.87	-1.64	7.88	-0.60	2.40	2.21	-12.08	0.58	0.54	2.02	0.69	-8.92	1.06	-1.54	4.21	**-1.5**
2584	2844	2,4,3,6,10,15,23,27,28,34,35,37,40,41,45,55	2.46	0.40	1.45	-1.21	1.00	1.97	-1.91	-2.07	4.55	2.59	0.20	-1.80	1.23	-6.29	-0.33	-1.54	-2.17	**-1.5**
2585	3511	2,4,3,6,9,11,13,16,20,23,27,28,34,38,40,42,46,48,51	-0.45	0.14	-2.51	7.82	2.54	-0.60	-1.19	1.77	0.28	-3.43	0.91	2.02	-5.50	-5.63	-0.33	-1.54	4.21	**-1.5**

Westar Energy- JEC to East Manhattan
345/230 kV Transmission Line Project
Table F-3: Weighted, Sorted Z-scores for All Routes

		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
2586	1103	1,3,7,9,10,16,18,21,28,34,36,39,41,40,42,47,50,54	-0.55	0.66	-2.76	-1.94	2.40	1.11	-0.47	-0.93	-0.73	6.50	-1.51	-1.80	-2.03	3.26	1.06	-1.54	-2.17	**-1.4**
2587	453	1,3,7,11,17,18,20,23,27,28,34,38,43,47,46,48,51	-0.79	-1.15	-2.60	7.15	1.02	0.25	0.25	6.97	0.60	-3.34	0.77	2.02	-5.71	-10.57	1.06	-1.54	4.21	**-1.4**
2588	306	1,3,7,11,13,16,20,23,26,31,34,38,40,42,46,48,52,53,54	-1.62	-0.38	-4.95	4.89	3.91	-1.46	-1.19	7.68	2.50	-5.61	0.80	0.11	-9.34	-4.31	1.06	2.28	4.21	**-1.4**
2589	4502	2,4,7,9,10,13,17,19,22,24,29,36,35,37,42,49,53,54	0.23	0.92	-2.20	-4.28	-1.30	-1.46	-0.47	-1.25	-1.66	-3.40	0.03	0.11	3.41	16.77	-3.11	-1.54	-2.17	**-1.4**
2590	1936	1,6,9,11,13,12,14,30,33,37,40,43,50,54	0.04	-1.93	-1.94	6.06	5.23	1.97	2.40	0.80	-2.77	2.80	0.07	-1.80	-2.44	-8.59	2.45	-1.54	-2.17	**-1.4**
2591	1393	1,6,10,13,17,19,22,24,29,36,35,37,42,47,50,54	0.29	0.14	-2.17	-4.32	-1.60	1.11	-0.47	-7.74	0.32	-2.58	-0.06	-1.80	3.36	15.45	2.45	-1.54	-2.17	**-1.3**
2592	4893	2,4,7,9,10,16,20,23,26,31,34,36,39,41,40,42,47,50,54	-0.38	0.66	-3.39	-0.50	1.44	-1.46	-1.91	1.43	2.83	7.87	-1.66	-1.80	-3.73	2.28	-3.11	2.28	-2.17	**-1.3**
2593	1039	1,3,7,9,10,16,18,21,27,26,31,34,35,37,40,43,47,46,48,51	-0.02	1.44	-1.08	4.21	-2.40	2.82	0.25	-2.22	-2.51	-7.85	1.53	2.02	-1.94	3.26	1.06	2.28	-2.17	**-1.3**
2594	813	1,3,7,9,10,13,17,21,27,26,31,34,36,39,41,40,42,47,50,54	-0.07	1.70	-2.01	-1.88	0.15	1.11	0.25	-0.93	0.69	5.18	-1.15	-1.80	-0.68	-2.99	1.06	2.28	-2.17	**-1.3**
2595	2957	2,4,3,6,10,16,18,21,27,26,31,34,38,40,42,46,48,51	-0.27	0.66	-1.51	4.53	1.26	1.11	-0.47	-5.95	-1.56	-7.87	1.52	2.02	-2.86	1.95	-0.33	2.28	4.21	**-1.3**
2596	2800	2,4,3,6,10,15,23,26,31,34,36,39,41,40,42,46,48,52,53,54	2.39	0.92	4.93	1.49	-4.28	-3.18	-0.47	-3.09	-1.26	6.57	-0.47	0.11	1.62	-6.29	-0.33	2.28	-2.17	**-1.2**
2597	1413	1,6,10,13,17,19,22,24,29,39,44,55	-2.22	-1.41	6.98	-7.60	-5.47	-3.18	-1.91	-7.88	-0.82	4.96	-1.57	-1.80	6.50	15.45	2.45	-1.54	-2.17	**-1.2**
2598	3738	2,4,3,6,9,11,17,21,28,34,36,39,41,40,42,46,48,52,53,54	2.17	0.40	4.58	5.88	-2.73	-1.46	2.40	-1.18	-2.79	4.93	-0.04	0.11	1.45	-10.90	-0.33	-1.54	-2.17	**-1.2**
2599	2171	1,6,9,11,13,16,18,21,28,34,38,40,42,46,48,51	-0.69	-0.38	-1.52	5.76	2.21	1.97	0.25	-0.59	-1.86	-6.87	1.35	2.02	-3.32	-4.64	2.45	-1.54	4.21	**-1.2**
2600	3792	2,4,7,11,13,12,14,30,33,37,40,43,50,54	-0.21	-1.93	-2.06	6.36	5.68	1.11	3.11	5.21	-2.45	2.75	-0.08	-1.80	-2.75	-7.27	-3.11	-1.54	-2.17	**-1.2**
2601	3145	2,4,3,6,8,14,30,33,37,42,46,48,51	3.21	-1.93	13.30	6.70	-4.14	-0.60	5.98	-7.26	-15.91	0.10	2.01	3.93	7.82	-10.24	-0.33	-1.54	-2.17	**-1.1**
2602	2114	1,6,9,11,13,16,18,21,27,26,31,34,36,39,41,43,50,54	-0.36	1.44	-1.66	-0.57	1.35	-0.60	-0.47	-0.78	1.45	4.67	-1.01	-1.80	-0.65	-4.64	2.45	2.28	-2.17	**-1.1**
2603	389	1,3,7,11,17,18,20,23,26,31,34,36,39,41,43,47,49,53,54	-0.49	0.92	-2.83	1.01	0.26	-2.32	-1.19	8.87	1.58	6.98	-1.35	0.11	-3.22	-10.57	1.06	2.28	-2.17	**-1.1**
2604	2820	2,4,3,6,10,15,23,26,33,37,40,41,45,55	2.43	-0.12	1.72	-1.46	-1.82	1.97	-1.19	-2.07	4.75	0.63	0.48	-1.80	1.94	-6.29	-0.33	2.28	-2.17	**-1.0**
2605	4809	2,4,7,9,10,16,18,21,27,26,31,34,36,39,41,43,47,49,53,54	-0.24	1.96	-2.22	-1.60	1.69	-1.46	-1.19	0.75	-1.64	4.64	-1.02	0.11	-1.07	3.26	-3.11	2.28	-2.17	**-1.0**
2606	2509	2,4,3,6,10,12,14,30,31,34,35,37,40,43,47,49,53,54	0.46	-0.38	-2.28	5.67	7.42	1.11	0.25	-2.47	-4.99	2.75	0.20	0.11	-2.83	-2.01	-0.33	-1.54	-2.17	**-1.0**
2607	1799	1,6,10,16,20,23,26,31,34,38,43,47,46,48,51	-0.70	-1.67	-2.89	5.34	0.80	0.25	-1.91	-2.79	0.59	-5.04	1.07	2.02	-5.99	0.96	2.45	2.28	4.21	**-1.0**
2608	4027	2,4,7,11,13,16,18,21,28,34,38,40,42,46,48,51	-0.94	-0.38	-1.64	6.06	2.66	1.11	0.96	3.81	-1.55	-6.92	1.19	2.02	-3.63	-3.32	-3.11	-1.54	4.21	**-1.0**
2609	4688	2,4,7,9,10,15,23,27,28,31,30,32,48,52,53,54	0.39	0.40	5.09	-12.08	-5.15	0.25	3.83	-1.24	3.19	0.11	-0.40	-3.71	7.76	2.28	-3.11	-1.54	2.94	**-1.0**
2610	2395	1,6,9,11,17,19,22,25,29,36,35,37,42,47,50,54	-0.31	-0.12	-1.94	-4.97	0.27	1.11	0.96	-2.69	-0.33	-2.45	-0.33	-1.80	3.69	9.19	2.45	-1.54	-2.17	**-1.0**
2611	1536	1,6,10,15,23,26,30,32,48,52,53,54	0.21	-0.64	5.29	-12.51	-6.63	1.11	3.11	-5.65	4.26	-2.05	-0.05	-3.71	7.69	0.96	2.45	2.28	2.94	**-0.9**
2612	3970	2,4,7,11,13,16,18,21,27,26,31,34,36,39,41,43,50,54	-0.62	1.44	-1.78	-0.27	1.79	-1.46	0.25	3.62	1.76	4.61	-1.16	-1.80	-0.95	-3.32	-3.11	2.28	-2.17	**-0.9**
2613	2415	1,6,9,11,17,19,22,25,29,39,44,55	-2.81	-1.67	7.21	-8.25	-3.60	-3.18	-0.47	-2.83	-1.47	5.09	-1.84	-1.80	6.83	9.19	2.45	-1.54	-2.17	**-0.9**
2614	1494	1,6,10,13,17,21,28,31,33,37,40,41,45,55	2.27	-0.64	0.80	0.60	-0.98	4.54	0.96	-4.72	2.12	-0.60	0.87	-1.80	1.28	-4.31	2.45	-1.54	-2.17	**-0.9**
2615	3517	2,4,3,6,9,11,13,16,20,23,27,28,34,38,43,47,46,48,51	-0.44	-0.12	-2.50	8.22	2.76	-0.60	-1.19	1.77	0.28	-3.23	0.92	2.02	-5.47	-5.63	-0.33	-1.54	4.21	**-0.9**
2616	4714	2,4,7,9,10,15,23,27,28,34,36,39,41,43,47,46,48,52,53,54	2.12	0.66	4.45	1.49	-3.09	-3.18	0.25	1.71	-2.33	8.75	-0.90	0.11	0.91	-4.97	-3.11	-1.54	-2.17	**-0.8**
2617	4622	2,4,7,9,10,13,17,21,28,34,36,39,41,40,42,46,48,52,53,54	2.01	0.40	3.92	3.84	-2.99	-1.46	2.40	-1.33	-3.55	5.14	-0.24	0.11	0.74	-2.99	-3.11	-1.54	-2.17	**-0.8**
2618	4395	2,4,7,9,10,12,14,30,33,37,40,43,47,49,53,54	0.16	-0.90	-2.50	5.03	5.58	1.11	1.68	2.33	-5.86	2.77	0.05	0.11	-2.87	-0.69	-3.11	-1.54	-2.17	**-0.8**
2619	4251	2,4,7,11,17,19,22,25,29,36,35,37,42,47,50,54	-0.56	-0.12	-2.06	-4.68	0.72	0.25	1.68	1.71	-0.02	-2.51	-0.48	-1.80	3.38	10.51	-3.11	-1.54	-2.17	**-0.8**
2620	312	1,3,7,11,13,16,20,23,26,31,34,38,43,47,46,48,52,53,54	-1.61	-0.64	-4.94	5.28	4.13	-1.46	-1.19	7.68	2.50	-5.41	0.81	0.11	-9.30	-4.31	1.06	2.28	4.21	**-0.8**
2621	1660	1,6,10,16,18,19,22,25,29,36,35,37,42,49,53,54	-0.47	-0.90	-2.77	-6.95	1.15	-0.60	-1.19	-5.57	-3.76	-2.93	-0.26	0.11	2.59	22.04	2.45	-1.54	-2.17	**-0.8**
2622	665	1,3,7,9,10,13,17,18,20,23,26,31,34,36,39,41,42,47,50,54	-0.09	1.70	-3.14	-0.64	-0.03	-0.60	-1.19	1.83	2.83	7.84	-1.57	-1.80	-3.11	-3.98	1.06	2.28	-2.17	**-0.8**
2623	3162	2,4,3,6,9,11,13,12,14,30,31,34,35,37,42,49,53,54	0.32	-0.90	-1.74	7.19	7.63	-0.60	0.96	2.49	-3.89	2.27	0.34	0.11	-2.31	-8.59	-0.33	-1.54	-2.17	**-0.8**
2624	2198	1,6,9,11,13,16,20,23,26,31,34,36,39,41,40,42,49,53,54	-0.33	0.40	-2.83	0.86	1.28	-2.32	-2.62	4.06	1.27	6.87	-1.21	0.11	-3.23	-5.63	2.45	2.28	-2.17	**-0.8**
2625	264	1,3,7,11,13,16,18,21,28,34,36,39,41,40,42,49,53,54	-0.75	0.40	-2.31	-0.28	2.69	-0.60	-0.47	6.11	-1.98	5.44	-1.22	0.11	-1.84	-3.32	1.06	-1.54	-2.17	**-0.7**
2626	4989	2,4,7,9,8,14,30,31,34,38,41,44,55	1.19	-2.71	9.78	-2.46	7.48	-2.32	2.40	-0.98	-10.77	0.92	0.79	0.11	5.23	-8.92	-3.11	-1.54	4.21	**-0.7**
2627	4271	2,4,7,11,17,19,22,25,29,39,44,55	-3.07	-1.67	7.09	-7.96	-3.15	-4.03	0.25	1.58	-1.16	5.04	-1.99	-1.80	6.52	10.51	-3.11	-1.54	-2.17	**-0.7**
2628	2596	2,4,3,6,10,13,17,18,20,23,27,28,31,30,32,48,52,53,54	0.71	0.92	3.65	-7.57	-4.95	0.25	3.83	-6.33	3.77	0.19	-0.05	-3.71	5.59	1.95	-0.33	-1.54	2.94	**-0.7**
2629	1237	1,3,7,9,8,14,30,31,34,38,43,47,49,53,54	-0.27	-1.93	3.89	-1.25	8.10	-0.60	2.40	2.21	-12.08	0.78	0.54	2.02	0.72	-8.92	1.06	-1.54	4.21	**-0.7**
2630	2963	2,4,3,6,10,16,18,21,27,26,31,34,38,43,47,46,48,51	-0.26	0.40	-1.50	4.93	1.48	1.11	-0.47	-5.95	-1.56	-7.67	1.53	2.02	-2.82	1.95	-0.33	2.28	4.21	**-0.6**
2631	2366	1,6,9,11,17,19,22,24,29,36,35,37,42,49,53,54	0.21	-0.12	-1.63	-3.07	-1.54	-0.60	-0.47	-0.70	-0.90	-3.64	0.22	0.11	3.89	8.86	2.45	-1.54	-2.17	**-0.6**
2632	4968	2,4,7,9,8,14,30,31,34,35,37,40,43,47,46,48,52,53,54	2.72	-1.15	11.03	4.75	0.50	-0.60	5.26	-1.74	-13.87	0.11	1.68	2.02	4.44	-8.92	-3.11	-1.54	-2.17	**-0.6**
2633	2177	1,6,9,11,13,16,18,21,28,34,38,43,47,46,48,51	-0.68	-0.64	-1.51	6.16	2.43	1.97	0.25	-0.59	-1.86	-6.67	1.35	2.02	-3.28	-4.64	2.45	-1.54	4.21	**-0.6**
2634	644	1,3,7,9,10,12,14,30,33,37,42,49,53,54	-0.17	-1.93	-2.71	4.30	5.12	0.25	1.68	2.73	-5.86	2.55	0.05	0.11	-3.35	-0.69	1.06	-1.54	-2.17	**-0.6**
2635	1191	1,3,7,9,10,16,20,23,27,28,34,36,39,41,40,42,47,50,54	-0.49	0.14	-3.83	-0.71	2.23	-0.60	-1.91	1.83	1.42	9.91	-1.96	-1.80	-4.43	2.28	1.06	-1.54	-2.17	**-0.6**
2636	4054	2,4,7,11,13,16,20,23,26,31,34,36,39,41,40,42,49,53,54	-0.59	0.40	-2.95	1.16	1.73	-3.18	-1.91	8.47	1.58	6.82	-1.37	0.11	-3.54	-4.31	-3.11	2.28	-2.17	**-0.6**
2637	1142	1,3,7,9,10,16,20,23,26,31,34,36,39,41,43,50,54	-0.74	0.40	-3.60	-1.29	0.95	-2.32	-1.91	1.83	2.83	7.53	-1.67	-1.80	-4.22	2.28	1.06	2.28	-2.17	**-0.6**
2638	2622	2,4,3,6,10,13,17,18,20,23,27,28,34,36,39,41,43,47,46,48,52,53,54	2.43	1.18	3.01	6.00	-2.89	-3.18	0.25	-3.38	-1.75	8.83	-0.55	0.11	-1.26	-5.30	-0.33	-1.54	-2.17	**-0.5**
2639	4366	2,4,7,9,10,12,14,30,31,34,35,37,40,43,50,54	0.06	-0.90	-2.40	4.55	7.04	1.11	1.68	0.25	-2.32	2.93	-0.14	-1.80	-3.08	-0.69	-3.11	-1.54	-2.17	**-0.5**
2640	1366	1,6,10,13,17,18,20,23,27,28,34,36,39,41,40,42,46,48,52,53,54	2.25	-0.12	2.91	4.78	-3.61	-2.32	0.25	-2.98	-1.75	8.60	-0.57	0.11	-1.52	-5.30	2.45	-1.54	-2.17	**-0.5**

Table F-3: Weighted, Sorted Z-scores for All Routes

Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
2641	1939	1,6,9,11,13,12,14,30,33,37,42,47,50,54	0.08	-2.19	-1.92	6.52	5.48	1.97	2.40	0.80	-2.77	3.11	0.09	-1.80	-2.40	-8.59	2.45	-1.54	-2.17	**-0.5**
2642	3453	2,4,3,6,9,11,13,16,20,23,26,31,34,36,39,41,43,47,49,53,54	-0.15	1.96	-2.73	2.09	2.00	-3.18	-2.62	3.66	1.27	7.09	-1.20	0.11	-2.97	-5.63	-0.33	2.28	-2.17	**-0.5**
2643	3127	2,4,3,6,8,14,30,31,34,36,39,44,55	0.55	-1.93	15.44	-0.50	0.86	-3.18	0.96	-6.69	-12.53	12.78	-0.81	0.11	8.76	-10.24	-0.33	-1.54	-2.17	**-0.5**
2644	4222	2,4,7,11,17,19,22,24,29,36,35,37,42,49,53,54	-0.05	-0.12	-1.75	-2.77	-1.09	-1.46	0.25	3.70	-0.59	-3.69	0.07	0.11	3.58	10.18	-3.11	-1.54	-2.17	**-0.4**
2645	4033	2,4,7,11,13,16,18,21,28,34,38,43,47,46,48,51	-0.94	-0.64	-1.63	6.46	2.88	1.11	0.96	3.81	-1.55	-6.73	1.20	2.02	-3.59	-3.32	-3.11	-1.54	4.21	**-0.4**
2646	3362	2,4,3,6,9,11,13,16,18,21,27,26,31,34,36,39,41,40,42,49,53,54	0.11	2.48	-1.43	0.45	1.96	-1.46	-1.19	0.90	-0.88	4.24	-0.76	0.11	-0.07	-4.64	-0.33	2.28	-2.17	**-0.4**
2647	1592	1,6,10,15,23,27,28,34,35,37,40,41,45,55	2.28	-0.64	1.36	-2.04	0.50	2.82	-1.91	-1.67	4.55	2.56	0.18	-1.80	1.01	-6.29	2.45	-1.54	-2.17	**-0.3**
2648	2259	1,6,9,11,13,16,20,23,27,28,34,38,40,42,46,48,51	-0.62	-0.90	-2.60	7.00	2.04	0.25	-1.19	2.17	0.28	-3.46	0.90	2.02	-5.73	-5.63	2.45	-1.54	4.21	**-0.3**
2649	533	1,3,7,11,17,21,27,26,31,34,36,39,41,40,42,47,50,54	-0.35	0.66	-1.56	-0.36	0.35	1.11	0.96	4.02	1.76	4.89	-1.12	-1.80	-0.50	-9.58	1.06	2.28	-2.17	**-0.3**
2650	2756	2,4,3,6,10,13,17,21,28,34,35,37,40,41,45,55	2.36	0.40	0.94	1.53	1.32	3.68	0.25	-5.11	3.32	-0.82	0.86	-1.80	1.11	-4.31	-0.33	-1.54	-2.17	**-0.3**
2651	3795	2,4,7,11,13,12,14,30,33,37,42,47,50,54	-0.18	-2.19	-2.04	6.81	5.93	1.11	3.11	5.21	-2.45	3.05	-0.06	-1.80	-2.71	-7.27	-3.11	-1.54	-2.17	**-0.3**
2652	3716	2,4,3,6,9,11,17,21,28,31,30,32,48,52,53,54	0.45	0.40	5.23	-7.29	-4.57	1.97	5.98	-4.14	2.73	-3.51	0.47	-3.71	8.34	-3.65	-0.33	-1.54	2.94	**-0.2**
2653	3266	2,4,3,6,9,11,13,15,23,27,28,34,36,39,41,40,42,46,48,52,53,54	2.47	1.18	5.24	3.54	-2.82	-3.18	0.25	1.87	-1.57	8.34	-0.63	0.11	1.91	-12.87	-0.33	-1.54	-2.17	**-0.2**
2654	2908	2,4,3,6,10,16,18,19,22,25,29,36,35,37,40,43,50,54	-0.19	0.66	-2.54	-6.32	1.54	0.25	-0.47	-8.05	-1.44	-2.44	-0.45	-1.80	3.09	22.04	-0.33	-1.54	-2.17	**-0.2**
2655	4115	2,4,7,11,13,16,20,23,27,28,34,38,40,42,46,48,51	-0.88	-0.90	-2.72	7.30	2.49	-0.60	-0.47	6.57	0.60	-3.51	0.75	2.02	-6.04	-4.31	-3.11	-1.54	4.21	**-0.1**
2656	2641	2,4,3,6,10,13,17,19,22,24,29,36,35,37,40,43,47,49,53,54	0.73	1.96	-1.94	-3.36	-1.02	0.25	-1.19	-6.06	-2.01	-3.12	0.17	0.11	3.93	15.45	-0.33	-1.54	-2.17	**-0.1**
2657	1705	1,6,10,16,18,21,27,26,31,34,38,40,42,46,48,51	-0.44	-0.38	-1.60	3.71	0.75	1.97	-0.47	-5.55	-1.56	-7.90	1.51	2.02	-3.08	1.95	2.45	2.28	4.21	**-0.1**
2658	1216	1,3,7,9,8,14,30,31,34,35,37,42,46,48,52,53,54	2.39	-1.93	10.82	4.01	0.04	-1.46	5.26	-1.34	-13.87	-0.11	1.68	2.02	3.96	-8.92	1.06	-1.54	-2.17	**-0.1**
2659	2804	2,4,3,6,10,15,23,26,31,34,36,39,41,43,47,46,48,52,53,54	2.39	1.18	4.94	1.89	-4.06	-3.18	-0.47	-3.09	-1.26	6.76	-0.46	0.11	1.65	-6.29	-0.33	2.28	-2.17	**-0.1**
2660	1548	1,6,10,15,23,26,31,34,36,39,41,40,42,46,48,52,53,54	2.21	-0.12	4.84	0.66	-4.78	-2.32	-0.47	-2.69	-1.26	6.54	-0.48	0.11	1.39	-6.29	2.45	2.28	-2.17	**-0.1**
2661	3742	2,4,3,6,9,11,17,21,28,34,36,39,41,43,47,46,48,52,53,54	2.17	0.66	4.60	6.28	-2.51	-1.46	2.40	-1.18	-2.79	5.13	-0.03	0.11	1.49	-10.90	-0.33	-1.54	-2.17	**-0.1**
2662	2486	1,6,9,11,17,21,28,34,36,39,41,40,42,46,48,52,53,54	1.99	-0.64	4.49	5.06	-3.23	-0.60	2.40	-0.78	-2.79	4.90	-0.05	0.11	1.23	-10.90	2.45	-1.54	-2.17	**-0.1**
2663	3614	2,4,3,6,9,11,17,19,22,24,29,36,35,37,40,43,50,54	0.48	1.44	-1.40	-2.44	-1.14	0.25	0.25	-3.18	1.42	-3.15	0.03	-1.80	4.39	8.86	-0.33	-1.54	-2.17	**0.0**
2664	1893	1,6,8,14,30,33,37,42,46,48,51	3.03	-2.97	13.21	5.88	-4.65	0.25	5.98	-6.86	-15.91	0.07	2.00	3.93	7.60	-10.24	2.45	-1.54	-2.17	**0.1**
2665	218	1,3,7,11,13,16,18,21,27,26,31,34,38,40,42,46,48,52,53,54	-1.35	0.66	-3.64	3.65	4.08	0.25	0.25	4.92	0.35	-8.27	1.25	0.11	-6.39	-3.32	1.06	2.28	4.21	**0.1**
2666	1568	1,6,10,15,23,26,33,37,40,41,45,55	2.26	-1.15	1.64	-2.28	-2.32	2.82	-1.19	-1.67	4.75	0.60	0.47	-1.80	1.72	-6.29	2.45	2.28	-2.17	**0.1**
2667	1257	1,6,10,12,14,30,31,34,35,37,40,43,47,49,53,54	0.28	-1.41	-2.37	4.85	6.92	1.97	0.25	-2.07	-4.99	2.72	0.19	0.11	-3.05	-2.01	2.45	-1.54	-2.17	**0.1**
2668	4342	2,4,7,11,17,21,28,34,36,39,41,40,42,46,48,52,53,54	1.73	-0.64	4.37	5.35	-2.78	-1.46	3.11	3.62	-2.47	4.85	-0.20	0.11	0.92	-9.58	-3.11	-1.54	-2.17	**0.1**
2669	2535	2,4,3,6,10,12,14,30,33,37,40,41,44,55	1.79	-2.19	3.45	4.01	4.78	0.25	0.96	-5.27	-4.89	2.97	0.44	-1.80	1.67	-2.01	-0.33	-1.54	-2.17	**0.1**
2670	4600	2,4,7,9,10,13,17,21,28,31,30,32,48,52,53,54	0.30	0.40	4.58	-9.34	-4.83	1.97	5.98	-4.29	1.97	-3.30	0.27	-3.71	7.63	4.25	-3.11	-1.54	2.94	**0.2**
2671	385	1,3,7,11,17,18,20,23,26,31,34,36,39,41,40,42,47,50,54	-0.37	0.66	-2.69	0.87	0.18	-0.60	-0.47	6.78	3.91	7.55	-1.54	-1.80	-2.93	-10.57	1.06	2.28	-2.17	**0.2**
2672	352	1,3,7,11,13,16,20,23,27,28,34,36,39,41,40,42,49,53,54	-0.69	-0.12	-3.39	0.95	2.52	-2.32	-1.91	8.87	0.17	8.85	-1.67	0.11	-4.25	-4.31	1.06	-1.54	-2.17	**0.2**
2673	4805	2,4,7,9,10,16,18,21,27,26,31,34,36,39,41,40,42,47,50,54	-0.12	1.70	-2.08	-1.74	1.61	0.25	-0.47	-1.33	0.69	5.21	-1.21	-1.80	-0.78	3.26	-3.11	2.28	-2.17	**0.2**
2674	3643	2,4,3,6,9,11,17,19,22,25,29,36,35,37,40,43,47,49,53,54	0.14	1.70	-1.71	-4.01	0.85	0.25	0.25	-1.01	-2.66	-2.99	-0.09	0.11	4.26	9.19	-0.33	-1.54	-2.17	**0.2**
2675	2265	1,6,9,11,13,16,20,23,27,28,34,38,43,47,46,48,51	-0.62	-1.15	-2.58	7.40	2.26	0.25	-1.19	2.17	0.28	-3.26	0.90	2.02	-5.69	-5.63	2.45	-1.54	4.21	**0.3**
2676	4626	2,4,7,9,10,13,17,21,28,34,36,39,41,43,47,46,48,52,53,54	2.02	0.66	3.94	4.24	-2.77	-1.46	2.40	-1.33	-3.55	5.33	-0.23	0.11	0.78	-2.99	-3.11	-1.54	-2.17	**0.3**
2677	4369	2,4,7,9,10,12,14,30,31,34,35,37,42,47,50,54	0.09	-1.15	-2.39	5.00	7.29	1.11	1.68	0.25	-2.32	3.24	-0.12	-1.80	-3.03	-0.69	-3.11	-1.54	-2.17	**0.3**
2678	4498	2,4,7,9,10,13,17,19,22,24,29,36,35,37,40,43,50,54	0.33	1.44	-2.06	-4.48	-1.40	0.25	0.25	-3.34	0.66	-2.94	-0.17	-1.80	3.68	16.77	-3.11	-1.54	-2.17	**0.4**
2679	1910	1,6,9,11,13,12,14,30,31,34,35,37,42,49,53,54	0.14	-1.93	-1.83	6.37	7.13	0.25	0.96	2.88	-3.89	2.24	0.33	0.11	-2.54	-8.59	2.45	-1.54	-2.17	**0.4**
2680	1344	1,6,10,13,17,18,20,23,27,28,31,30,32,48,52,53,54	0.53	-0.12	3.56	-8.40	-5.45	1.11	3.83	-5.93	3.77	0.16	-0.06	-3.71	5.37	1.95	2.45	-1.54	2.94	**0.5**
2681	4121	2,4,7,11,13,16,20,23,27,28,34,38,43,47,46,48,51	-0.88	-1.15	-2.70	7.69	2.71	-0.60	-0.47	6.57	0.60	-3.31	0.75	2.02	-6.00	-4.31	-3.11	-1.54	4.21	**0.5**
2682	1711	1,6,10,16,18,21,27,26,31,34,38,43,47,46,48,51	-0.44	-0.64	-1.58	4.11	0.97	1.97	-0.47	-5.55	-1.56	-7.70	1.52	2.02	-3.04	1.95	2.45	2.28	4.21	**0.5**
2683	287	1,3,7,11,13,16,20,23,26,31,34,35,37,40,43,47,46,48,51	-0.36	0.40	-1.79	7.37	-2.14	1.11	-0.47	5.50	0.72	-5.48	1.20	2.02	-4.38	-4.31	1.06	2.28	-2.17	**0.5**
2684	4690	2,4,7,9,10,15,23,27,28,31,33,37,40,41,45,55	2.44	0.40	1.43	-1.85	-0.84	1.97	-0.47	2.74	3.68	2.76	0.12	-1.80	1.78	-4.97	-3.11	-1.54	-2.17	**0.6**
2685	3766	2,4,7,11,13,12,14,30,31,34,35,37,42,49,53,54	-0.11	-1.93	-1.95	6.66	7.58	-0.60	1.68	7.29	-3.57	2.18	0.18	0.11	-2.85	-7.27	-3.11	-1.54	-2.17	**0.6**
2686	69	1,3,7,11,13,15,23,26,31,34,38,40,42,46,48,51	-0.62	-0.12	-0.53	3.04	-0.15	0.25	-0.47	7.26	1.09	-5.61	0.92	2.02	-2.51	-11.56	1.06	2.28	4.21	**0.6**
2687	1370	1,6,10,13,17,18,20,23,27,28,34,36,39,41,43,47,46,48,52,53,54	2.25	0.14	2.92	5.18	-3.39	-2.32	0.25	-2.98	-1.75	8.80	-0.56	0.11	-1.48	-5.30	2.45	-1.54	-2.17	**0.6**
2688	4527	2,4,7,9,10,13,17,19,22,25,29,36,35,37,40,43,47,49,53,54	-0.02	1.70	-2.37	-6.05	0.59	0.25	0.25	-1.16	-3.42	-2.79	-0.29	0.11	3.55	17.10	-3.11	-1.54	-2.17	**0.6**
2689	2201	1,6,9,11,13,16,20,23,26,31,34,36,39,41,43,47,49,53,54	-0.32	0.92	-2.81	1.26	1.50	-2.32	-2.62	4.06	1.27	7.07	-1.21	0.11	-3.20	-5.63	2.45	2.28	-2.17	**0.6**
2690	1875	1,6,8,14,30,31,34,36,39,44,55	0.37	-2.97	15.35	-1.32	0.36	-2.32	0.96	-6.29	-12.53	12.75	-0.83	0.11	8.53	-10.24	2.45	-1.54	-2.17	**0.7**
2691	2911	2,4,3,6,10,16,18,19,22,25,29,36,35,37,42,47,50,54	-0.16	0.40	-2.53	-5.87	1.79	0.25	-0.47	-8.05	-1.44	-2.13	-0.43	-1.80	3.13	22.04	-0.33	-1.54	-2.17	**0.7**
2692	267	1,3,7,11,13,16,18,21,28,34,36,39,41,43,47,49,53,54	-0.75	0.92	-2.30	0.11	2.91	-0.60	-0.47	6.11	-1.98	5.64	-1.22	0.11	-1.81	-3.32	1.06	-1.54	-2.17	**0.7**
2693	3187	2,4,3,6,9,11,13,12,14,30,33,37,40,43,47,49,53,54	0.52	-0.38	-1.69	7.48	6.06	1.11	1.68	2.49	-5.09	2.57	0.32	0.11	-1.83	-8.59	-0.33	-1.54	-2.17	**0.7**
2694	3449	2,4,3,6,9,11,13,16,20,23,26,31,34,36,39,41,40,42,47,50,54	-0.02	1.70	-2.58	1.95	1.93	-1.46	-1.91	1.58	3.59	7.66	-1.38	-1.80	-2.69	-5.63	-0.33	2.28	-2.17	**0.7**
2695	224	1,3,7,11,13,16,18,21,27,26,31,34,38,43,47,46,48,52,53,54	-1.35	0.40	-3.63	4.05	4.30	0.25	0.25	4.92	0.35	-8.07	1.25	0.11	-6.36	-3.32	1.06	2.28	4.21	**0.7**

Table F-3: Weighted, Sorted Z-scores for All Routes

		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
2696	2110	1,6,9,11,13,16,18,21,27,26,31,34,36,39,41,40,42,49,53,54	-0.07	1.44	-1.52	-0.37	1.45	-0.60	-1.19	1.30	-0.88	4.21	-0.77	0.11	-0.29	-4.64	2.45	2.28	-2.17	**0.7**
2697	3244	2,4,3,6,9,11,13,15,23,27,28,31,30,32,48,52,53,54	0.75	1.18	5.89	-9.63	-4.66	0.25	3.83	-1.09	3.95	-0.09	-0.12	-3.71	8.80	-5.63	-0.33	-1.54	2.94	**0.8**
2698	2931	2,4,3,6,10,16,18,19,22,25,29,39,44,55	-2.66	-1.15	6.62	-9.15	-2.07	-4.03	-1.91	-8.19	-2.58	5.41	-1.95	-1.80	6.27	22.04	-0.33	-1.54	-2.17	**0.8**
2699	1504	1,6,10,13,17,21,28,34,35,37,40,41,45,55	2.18	-0.64	0.85	0.71	0.81	4.54	0.25	-4.72	3.32	-0.85	0.85	-1.80	0.88	-4.31	2.45	-1.54	-2.17	**0.8**
2700	1111	1,3,7,9,10,16,18,21,28,34,38,40,42,46,48,51	-0.80	-0.38	-2.15	3.80	1.99	1.97	0.25	-0.75	-2.63	-6.66	1.12	2.02	-3.96	3.26	1.06	-1.54	4.21	**0.8**
2701	4057	2,4,7,11,13,16,20,23,26,31,34,36,39,41,43,47,49,53,54	-0.58	0.92	-2.93	1.56	1.95	-3.18	-1.91	8.47	1.58	7.01	-1.36	0.11	-3.51	-4.31	-3.11	2.28	-2.17	**0.8**
2702	3617	2,4,3,6,9,11,17,19,22,24,29,36,35,37,42,47,50,54	0.51	1.18	-1.39	-1.98	-0.89	0.25	0.25	-3.18	1.42	-2.84	0.05	-1.80	4.44	8.86	-0.33	-1.54	-2.17	**0.8**
2703	776	1,3,7,9,10,13,17,19,22,25,29,36,35,37,42,49,53,54	-0.35	0.66	-2.58	-6.79	0.13	-0.60	0.25	-0.76	-3.42	-3.01	-0.30	0.11	3.06	17.10	1.06	-1.54	-2.17	**0.8**
2704	2598	2,4,3,6,10,13,17,18,20,23,27,28,31,33,37,40,41,45,55	2.75	0.92	-0.01	2.66	-0.64	1.97	-0.47	-2.35	4.26	2.84	0.47	-1.80	-0.39	-5.30	-0.33	-1.54	-2.17	**0.9**
2705	2464	1,6,9,11,17,21,28,31,30,32,48,52,53,54	0.28	-0.64	5.15	-8.12	-5.07	2.82	5.98	-3.74	2.73	-3.54	0.46	-3.71	8.11	-3.65	2.45	-1.54	2.94	**0.9**
2706	3270	2,4,3,6,9,11,13,15,23,27,28,34,36,39,41,43,47,46,48,52,53,54	2.47	1.44	5.26	3.94	-2.60	-3.18	0.25	1.87	-1.57	8.54	-0.63	0.11	1.95	-12.87	-0.33	-1.54	-2.17	**0.9**
2707	2014	1,6,9,11,13,15,23,27,28,34,36,39,41,40,42,46,48,52,53,54	2.29	0.14	5.15	2.72	-3.33	-2.32	0.25	2.27	-1.57	8.31	-0.64	0.11	1.69	-12.87	2.45	-1.54	-2.17	**0.9**
2708	3966	2,4,7,11,13,16,18,21,27,26,31,34,36,39,41,40,42,49,53,54	-0.32	1.44	-1.64	-0.08	1.90	-1.46	-0.47	5.71	-0.56	4.15	-0.92	0.11	-0.60	-3.32	-3.11	2.28	-2.17	**0.9**
2709	4901	2,4,7,9,10,16,20,23,26,31,34,38,40,42,46,48,51	-0.63	-0.38	-2.79	5.24	1.03	-0.60	-1.19	1.62	0.93	-5.29	0.98	2.02	-5.66	2.28	-3.11	2.28	4.21	**0.9**
2710	1054	1,3,7,9,10,16,18,21,27,26,31,34,36,39,41,43,50,54	-0.47	1.44	-2.29	-2.53	1.13	-0.60	-0.47	-0.93	0.69	4.87	-1.23	-1.80	-1.28	3.26	1.06	2.28	-2.17	**0.9**
2711	3637	2,4,3,6,9,11,17,19,22,24,29,39,44,55	-1.99	-0.38	7.76	-5.26	-4.76	-4.03	-1.19	-3.32	0.28	4.70	-1.46	-1.80	7.58	8.86	-0.33	-1.54	-2.17	**0.9**
2712	1656	1,6,10,16,18,19,22,25,29,36,35,37,40,43,50,54	-0.37	-0.38	-2.63	-7.14	1.04	1.11	-0.47	-7.65	-1.44	-2.47	-0.47	-1.80	2.86	22.04	2.45	-1.54	-2.17	**1.0**
2713	821	1,3,7,9,10,13,17,21,27,26,31,34,38,40,42,46,48,51	-0.32	0.66	-1.41	3.86	-0.27	1.97	0.96	-0.75	-1.21	-7.98	1.48	2.02	-2.60	-2.99	1.06	2.28	4.21	**1.0**
2714	3158	2,4,3,6,9,11,13,12,14,30,31,34,35,37,40,43,50,54	0.42	-0.38	-1.60	7.00	7.53	1.11	1.68	0.40	-1.56	2.72	0.13	-1.80	-2.04	-8.59	-0.33	-1.54	-2.17	**1.0**
2715	3365	2,4,3,6,9,11,13,16,18,21,27,26,31,34,36,39,41,43,47,49,53,54	0.12	3.00	-1.42	0.85	2.18	-1.46	-1.19	0.90	-0.88	4.43	-0.75	0.11	-0.03	-4.64	-0.33	2.28	-2.17	**1.0**
2716	1389	1,6,10,13,17,19,22,24,29,36,35,37,40,43,47,49,53,54	0.55	0.92	-2.03	-4.18	-1.53	1.11	-1.19	-5.66	-2.01	-3.15	0.16	0.11	3.71	15.45	2.45	-1.54	-2.17	**1.0**
2717	1552	1,6,10,15,23,26,31,34,36,39,41,43,47,46,48,52,53,54	2.22	0.14	4.86	1.06	-4.56	-2.32	-0.47	-2.69	-1.26	6.73	-0.47	0.11	1.43	-6.29	2.45	2.28	-2.17	**1.0**
2718	2882	2,4,3,6,10,16,18,19,22,24,29,36,35,37,42,49,53,54	0.35	0.40	-2.22	-3.96	-0.01	-1.46	-1.91	-6.06	-2.01	-3.32	0.12	0.11	3.34	21.71	-0.33	-1.54	-2.17	**1.0**
2719	2490	1,6,9,11,17,21,28,34,36,39,41,43,47,46,48,52,53,54	2.00	-0.38	4.51	5.45	-3.01	-0.60	2.40	-0.78	-2.79	5.10	-0.05	0.11	1.26	-10.90	2.45	-1.54	-2.17	**1.1**
2720	1231	1,3,7,9,8,14,30,31,34,38,40,42,47,50,54	-0.14	-1.67	4.03	-1.39	8.03	1.11	3.11	0.13	-9.75	1.35	0.36	0.11	1.01	-8.92	1.06	-1.54	4.21	**1.1**
2721	1242	1,3,7,9,8,14,30,33,37,40,43,47,46,48,52,53,54	2.59	-1.67	10.87	4.30	-1.53	0.25	5.98	-1.34	-15.07	0.19	1.66	2.02	4.44	-8.92	1.06	-1.54	-2.17	**1.1**
2722	4320	2,4,7,11,17,21,28,31,30,32,48,52,53,54	0.02	-0.64	5.03	-7.82	-4.62	1.97	6.70	0.67	3.05	-3.59	0.31	-3.71	7.80	-2.33	-3.11	-1.54	2.94	**1.1**
2723	2362	1,6,9,11,17,19,22,24,29,36,35,37,40,43,50,54	0.31	0.40	-1.49	-3.26	-1.64	1.11	0.25	-2.78	1.42	-3.18	0.02	-1.80	4.17	8.86	2.45	-1.54	-2.17	**1.1**
2724	3870	2,4,7,11,13,15,23,27,28,34,36,39,41,40,42,46,48,52,53,54	2.03	0.14	5.03	3.01	-2.88	-3.18	0.96	6.67	-1.25	8.26	-0.80	0.11	1.38	-11.56	-3.11	-1.54	-2.17	**1.1**
2725	640	1,3,7,9,10,12,14,30,33,37,40,43,50,54	-0.07	-1.41	-2.57	4.10	5.01	1.97	2.40	0.65	-3.53	3.01	-0.16	-1.80	-3.08	-0.69	1.06	-1.54	-2.17	**1.2**
2726	75	1,3,7,11,13,15,23,26,31,34,38,43,47,46,48,51	-0.62	-0.38	-0.52	3.44	0.07	0.25	-0.47	7.26	1.09	-5.41	0.93	2.02	-2.47	-11.56	1.06	2.28	4.21	**1.2**
2727	4501	2,4,7,9,10,13,17,19,22,24,29,36,35,37,42,47,50,54	0.36	1.18	-2.05	-4.03	-1.15	0.25	0.25	-3.34	0.66	-2.63	-0.15	-1.80	3.73	16.77	-3.11	-1.54	-2.17	**1.2**
2728	4346	2,4,7,11,17,21,28,34,36,39,41,43,47,46,48,52,53,54	1.74	-0.38	4.39	5.75	-2.56	-1.46	3.11	3.62	-2.47	5.04	-0.20	0.11	0.95	-9.58	-3.11	-1.54	-2.17	**1.2**
2729	1138	1,3,7,9,10,16,20,23,26,31,34,36,39,41,40,42,49,53,54	-0.44	0.40	-3.46	-1.10	1.06	-2.32	-2.62	3.91	0.51	7.08	-1.44	0.11	-3.87	2.28	1.06	2.28	-2.17	**1.3**
2730	1283	1,6,10,12,14,30,33,37,40,41,44,55	1.62	-3.23	3.36	3.19	4.27	1.11	0.96	-4.87	-4.89	2.94	0.43	-1.80	1.45	-2.01	2.45	-1.54	-2.17	**1.3**
2731	4218	2,4,7,11,17,19,22,24,29,36,35,37,40,43,50,54	0.05	0.40	-1.61	-2.96	-1.19	0.25	0.96	1.62	1.74	-3.23	-0.13	-1.80	3.86	10.18	-3.11	-1.54	-2.17	**1.3**
2732	3718	2,4,3,6,9,11,17,21,28,31,33,37,40,41,45,55	2.50	0.40	1.58	2.94	-0.26	3.68	1.68	-0.16	3.22	-0.86	0.99	-1.80	2.36	-10.90	-0.33	-1.54	-2.17	**1.3**
2733	4521	2,4,7,9,10,13,17,19,22,24,29,39,44,55	-2.14	-0.38	7.10	-7.31	-5.02	-4.03	-1.19	-3.47	-0.48	4.91	-1.66	-1.80	6.87	16.77	-3.11	-1.54	-2.17	**1.3**
2734	2391	1,6,9,11,17,19,22,25,29,36,35,37,40,43,47,49,53,54	-0.04	0.66	-1.80	-4.83	0.35	1.11	0.25	-0.61	-2.66	-3.02	-0.11	0.11	4.03	9.19	2.45	-1.54	-2.17	**1.4**
2735	1117	1,3,7,9,10,16,18,21,28,34,38,43,47,46,48,51	-0.79	-0.64	-2.14	4.20	2.21	1.97	0.25	-0.75	-2.63	-6.46	1.13	2.02	-3.92	3.26	1.06	-1.54	4.21	**1.4**
2736	2700	2,4,3,6,10,13,17,21,27,26,30,32,48,52,53,54	0.62	0.92	5.10	-8.94	-5.81	1.97	5.26	-9.09	3.04	-4.68	0.63	-3.71	8.33	2.94	-0.33	2.28	2.94	**1.5**
2737	673	1,3,7,9,10,13,17,18,20,23,26,31,34,38,40,42,46,48,51	-0.34	0.66	-2.54	5.10	-0.44	0.25	-0.47	2.02	0.93	-5.32	1.06	2.02	-5.03	-3.98	1.06	2.28	4.21	**1.5**
2738	2667	2,4,3,6,10,13,17,19,22,25,29,36,35,37,40,41,44,55	1.61	0.40	3.58	-7.08	-0.21	-0.60	-0.47	-8.76	-2.46	-2.59	0.10	-1.80	8.09	15.78	-0.33	-1.54	-2.17	**1.5**
2739	4247	2,4,7,11,17,19,22,25,29,36,35,37,40,43,47,49,53,54	-0.30	0.66	-1.92	-4.54	0.80	0.25	0.96	3.80	-2.34	-3.08	-0.26	0.11	3.72	10.51	-3.11	-1.54	-2.17	**1.6**
2740	4907	2,4,7,9,10,16,20,23,26,31,34,38,43,47,46,48,51	-0.62	-0.64	-2.77	5.64	1.25	-0.60	-1.19	1.62	0.93	-5.09	0.98	2.02	-5.62	2.28	-3.11	2.28	4.21	**1.6**
2741	355	1,3,7,11,13,16,20,23,27,28,34,36,39,41,43,47,49,53,54	-0.69	0.40	-3.37	1.35	2.74	-2.32	-1.91	8.87	0.17	9.05	-1.66	0.11	-4.21	-4.31	1.06	-1.54	-2.17	**1.6**
2742	827	1,3,7,9,10,13,17,21,27,26,31,34,38,43,47,46,48,51	-0.32	0.40	-1.39	4.26	-0.05	1.97	0.96	-0.75	-1.21	-7.78	1.48	2.02	-2.57	-2.99	1.06	2.28	4.21	**1.6**
2743	4644	2,4,7,9,10,15,23,26,30,32,48,52,53,54	0.29	0.40	5.41	-12.21	-6.18	0.25	3.83	-1.24	4.60	-2.10	-0.14	-3.71	8.06	2.28	-3.11	2.28	2.94	**1.6**
2744	3590	2,4,3,6,9,11,17,18,20,23,27,28,34,36,39,41,40,42,46,48,52,53,54	2.48	0.92	3.69	7.12	-2.90	-3.18	0.96	1.58	-0.64	8.34	-0.46	0.11	-0.44	-11.89	-0.33	-1.54	-2.17	**1.6**
2745	1199	1,3,7,9,10,16,20,23,27,28,34,38,40,42,46,48,51	-0.74	-0.90	-3.23	5.04	1.82	0.25	-1.19	2.02	-0.48	-3.25	0.68	2.02	-6.36	2.28	1.06	-1.54	4.21	**1.7**
2746	4602	2,4,7,9,10,13,17,21,28,31,33,37,40,41,45,55	2.34	0.40	0.92	0.89	-0.53	3.68	1.68	-0.31	2.46	-0.65	0.78	-1.80	1.65	-2.99	-3.11	-1.54	-2.17	**1.7**
2747	496	1,3,7,11,17,19,22,25,29,36,35,37,42,49,53,54	-0.63	-0.38	-2.13	-5.28	0.34	-0.60	0.96	4.20	-2.34	-3.30	-0.26	0.11	3.24	10.51	1.06	-1.54	-2.17	**1.8**
2748	4768	2,4,7,9,10,16,18,19,22,25,29,36,35,37,42,49,53,54	-0.39	0.14	-2.65	-6.65	1.60	-1.46	-0.47	-1.16	-3.42	-2.98	-0.35	0.11	2.96	23.35	-3.11	-1.54	-2.17	**1.8**
2749	1659	1,6,10,16,18,19,22,25,29,36,35,37,42,47,50,54	-0.34	-0.64	-2.62	-6.69	1.29	1.11	-0.47	-7.65	-1.44	-2.16	-0.45	-1.80	2.91	22.04	2.45	-1.54	-2.17	**1.8**
2750	1935	1,6,9,11,13,12,14,30,33,37,40,43,47,49,53,54	0.34	-1.41	-1.78	6.66	5.56	1.97	1.68	2.88	-5.09	2.54	0.31	0.11	-2.05	-8.59	2.45	-1.54	-2.17	**1.8**

Table F-3: Weighted, Sorted Z-scores for All Routes

Weights			3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
2751	3161	2,4,3,6,9,11,13,12,14,30,31,34,35,37,42,47,50,54	0.45	-0.64	-1.58	7.45	7.77	1.11	1.68	0.40	-1.56	3.03	0.16	-1.80	-1.99	-8.59	-0.33	-1.54	-2.17	**1.8**
2752	2197	1,6,9,11,13,16,20,23,26,31,34,36,39,41,40,42,47,50,54	-0.20	0.66	-2.67	1.12	1.42	-0.60	-1.91	1.98	3.59	7.63	-1.40	-1.80	-2.91	-5.63	2.45	2.28	-2.17	**1.9**
2753	541	1,3,7,11,17,21,27,26,31,34,38,40,42,46,48,51	-0.60	-0.38	-0.95	5.38	-0.06	1.97	1.68	4.21	-0.14	-8.27	1.52	2.02	-2.43	-9.58	1.06	2.28	4.21	**1.9**
2754	1992	1,6,9,11,13,15,23,27,28,31,30,32,48,52,53,54	0.58	0.14	5.81	-10.46	-5.17	1.11	3.83	-0.69	3.95	-0.12	-0.14	-3.71	8.57	-5.63	2.45	-1.54	2.94	**1.9**
2755	263	1,3,7,11,13,16,18,21,28,34,36,39,41,40,42,47,50,54	-0.62	0.66	-2.16	-0.03	2.83	1.11	0.25	4.02	0.35	6.21	-1.40	-1.80	-1.52	-3.32	1.06	-1.54	-2.17	**1.9**
2756	1679	1,6,10,16,18,19,22,25,29,39,44,55	-2.84	-2.19	6.53	-9.97	-2.58	-3.18	-1.91	-7.79	-2.58	5.38	-1.96	-1.80	6.05	22.04	2.45	-1.54	-2.17	**1.9**
2757	2552	2,4,3,6,10,13,17,18,20,23,26,30,32,48,52,53,54	0.60	0.92	3.97	-7.71	-5.98	0.25	3.83	-6.33	5.18	-2.02	0.21	-3.71	5.90	1.95	-0.33	2.28	2.94	**2.0**
2758	2365	1,6,9,11,17,19,22,24,29,36,35,37,42,47,50,54	0.34	0.14	-1.48	-2.81	-1.39	1.11	0.25	-2.78	1.42	-2.87	0.04	-1.80	4.21	8.86	2.45	-1.54	-2.17	**2.0**
2759	1346	1,6,10,13,17,18,20,23,27,28,31,33,37,40,41,45,55	2.58	-0.12	-0.09	1.83	-1.15	2.82	-0.47	-1.95	4.26	2.81	0.45	-1.80	-0.61	-5.30	2.45	-1.54	-2.17	**2.0**
2760	643	1,3,7,9,10,12,14,30,33,37,42,47,50,54	-0.04	-1.67	-2.55	4.55	5.26	1.97	2.40	0.65	-3.53	3.31	-0.14	-1.80	-3.03	-0.69	1.06	-1.54	-2.17	**2.0**
2761	3791	2,4,7,11,13,12,14,30,33,37,40,43,47,49,53,54	0.09	-1.41	-1.90	6.95	6.01	1.11	2.40	7.29	-4.78	2.48	0.16	0.11	-2.36	-7.27	-3.11	-1.54	-2.17	**2.0**
2762	4474	2,4,7,9,10,13,17,18,20,23,27,28,34,36,39,41,40,42,46,48,52,53,54	2.32	0.92	3.03	5.08	-3.16	-3.18	0.96	1.43	-1.41	8.55	-0.66	0.11	-1.15	-3.98	-3.11	-1.54	-2.17	**2.0**
2763	4053	2,4,7,11,13,16,20,23,26,31,34,36,39,41,40,42,47,50,54	-0.46	0.66	-2.79	1.42	1.87	-1.46	-1.19	6.39	3.91	7.58	-1.55	-1.80	-3.22	-4.31	-3.11	2.28	-2.17	**2.0**
2764	199	1,3,7,11,13,16,18,21,27,26,31,34,35,37,40,43,47,46,48,51	-0.09	1.44	-0.49	6.13	-1.97	2.82	0.96	2.74	-1.43	-8.14	1.64	2.02	-1.43	-3.32	1.06	2.28	-2.17	**2.0**
2765	2018	1,6,9,11,13,15,23,27,28,34,36,39,41,43,47,46,48,52,53,54	2.30	0.40	5.17	3.12	-3.11	-2.32	0.25	2.27	-1.57	8.51	-0.64	0.11	1.72	-12.87	2.45	-1.54	-2.17	**2.1**
2766	2385	1,6,9,11,17,19,22,24,29,39,44,55	-2.17	-1.41	7.67	-6.09	-5.26	-3.18	-1.19	-2.92	0.28	4.67	-1.48	-1.80	7.35	8.86	2.45	-1.54	-2.17	**2.1**
2767	679	1,3,7,9,10,13,17,18,20,23,26,31,34,38,43,47,46,48,51	-0.33	0.40	-2.52	5.50	-0.22	0.25	-0.47	2.02	0.93	-5.12	1.07	2.02	-5.00	-3.98	1.06	2.28	4.21	**2.1**
2768	5001	2,4,7,9,8,14,30,33,37,42,46,48,51	3.11	-2.45	13.33	6.17	-4.20	-0.60	6.70	-2.45	-15.56	0.02	1.91	3.93	7.96	-8.92	-3.11	-1.54	-2.17	**2.1**
2769	3848	2,4,7,11,13,15,23,27,28,31,30,32,48,52,53,54	0.32	0.14	5.69	-10.16	-4.72	0.25	4.55	3.71	4.27	-0.18	-0.29	-3.71	8.26	-4.31	-3.11	-1.54	2.94	**2.1**
2770	3002	2,4,3,6,10,16,18,21,28,34,36,39,41,40,42,46,48,52,53,54	2.14	0.40	3.91	4.16	-1.71	-1.46	0.96	-6.14	-3.90	5.22	-0.16	0.11	0.67	1.95	-0.33	-1.54	-2.17	**2.1**
2771	1906	1,6,9,11,13,12,14,30,31,34,35,37,40,43,50,54	0.24	-1.41	-1.69	6.17	7.02	1.97	1.68	0.80	-1.56	2.69	0.12	-1.80	-2.26	-8.59	2.45	-1.54	-2.17	**2.1**
2772	2113	1,6,9,11,13,16,18,21,27,26,31,34,36,39,41,43,47,49,53,54	-0.06	1.96	-1.50	0.02	1.67	-0.60	-1.19	1.30	-0.88	4.40	-0.76	0.11	-0.25	-4.64	2.45	2.28	-2.17	**2.1**
2773	4221	2,4,7,11,17,19,22,24,29,36,35,37,42,47,50,54	0.08	0.14	-1.60	-2.51	-0.95	0.25	0.96	1.62	1.74	-2.92	-0.11	-1.80	3.90	10.18	-3.11	-1.54	-2.17	**2.2**
2774	1630	1,6,10,16,18,19,22,24,29,36,35,37,42,49,53,54	0.18	-0.64	-2.31	-4.78	-0.52	-0.60	-1.91	-5.66	-2.01	-3.35	0.10	0.11	3.11	21.71	2.45	-1.54	-2.17	**2.2**
2775	3361	2,4,3,6,9,11,13,16,18,21,27,26,31,34,36,39,41,40,42,47,50,54	0.24	2.74	-1.27	0.71	2.10	0.25	-0.47	-1.18	1.45	5.00	-0.94	-1.80	0.25	-4.64	-0.33	2.28	-2.17	**2.2**
2776	4700	2,4,7,9,10,15,23,27,28,34,35,37,40,41,45,55	2.35	0.40	1.48	-1.74	0.94	1.97	-1.19	2.74	4.89	2.51	0.09	-1.80	1.38	-4.97	-3.11	-1.54	-2.17	**2.2**
2777	3874	2,4,7,11,13,15,23,27,28,34,36,39,41,43,47,46,48,52,53,54	2.04	0.40	5.05	3.41	-2.66	-3.18	0.96	6.67	-1.25	8.46	-0.79	0.11	1.41	-11.56	-3.11	-1.54	-2.17	**2.3**
2778	40	1,3,7,11,13,12,14,30,33,37,42,49,53,54	-0.24	-2.45	-2.11	6.21	5.55	0.25	2.40	7.69	-4.78	2.26	0.16	0.11	-2.85	-7.27	1.06	-1.54	-2.17	**2.3**
2779	2712	2,4,3,6,10,13,17,21,27,26,31,34,36,39,41,40,42,46,48,52,53,54	2.61	1.44	4.65	4.23	-3.96	-1.46	1.68	-6.14	-2.48	3.90	0.20	0.11	2.02	-4.31	-0.33	2.28	-2.17	**2.3**
2780	4241	2,4,7,11,17,19,22,24,29,39,44,55	-2.42	-1.41	7.55	-5.79	-4.81	-4.03	-0.47	1.48	0.60	4.62	-1.63	-1.80	7.04	10.18	-3.11	-1.54	-2.17	**2.3**
2781	1205	1,3,7,9,10,16,20,23,27,28,34,38,43,47,46,48,51	-0.73	-1.15	-3.21	5.43	2.04	0.25	-1.19	2.02	-0.48	-3.05	0.68	2.02	-6.33	2.28	1.06	-1.54	4.21	**2.3**
2782	3762	2,4,7,11,13,12,14,30,31,34,35,37,40,43,50,54	-0.02	-1.41	-1.81	6.47	7.47	1.11	2.40	5.21	-1.25	2.64	-0.03	-1.80	-2.57	-7.27	-3.11	-1.54	-2.17	**2.3**
2783	3246	2,4,3,6,9,11,13,15,23,27,28,31,33,37,40,41,45,55	2.80	1.18	2.24	0.60	-0.36	1.97	-0.47	2.89	4.45	2.55	0.39	-1.80	2.82	-12.87	-0.33	-1.54	-2.17	**2.3**
2784	3969	2,4,7,11,13,16,18,21,27,26,31,34,36,39,41,43,47,49,53,54	-0.32	1.96	-1.62	0.32	2.12	-1.46	-0.47	5.71	-0.56	4.35	-0.92	0.11	-0.56	-3.32	-3.11	2.28	-2.17	**2.3**
2785	3115	2,4,3,6,8,14,30,31,34,35,37,42,46,48,51	3.40	-1.41	13.55	6.81	-2.36	-0.60	5.26	-7.26	-14.70	0.00	2.07	3.93	8.00	-10.24	-0.33	-1.54	-2.17	**2.4**
2786	393	1,3,7,11,17,18,20,23,26,31,34,38,40,42,46,48,51	-0.62	-0.38	-2.09	6.62	-0.23	0.25	0.25	6.97	2.01	-5.61	1.10	2.02	-4.86	-10.57	1.06	2.28	4.21	**2.4**
2787	4813	2,4,7,9,10,16,18,21,27,26,31,34,38,40,42,46,48,51	-0.37	0.66	-1.48	4.01	1.20	1.11	0.25	-1.15	-1.21	-7.95	1.42	2.02	-2.71	3.26	-3.11	2.28	4.21	**2.4**
2788	2466	1,6,9,11,17,21,28,31,33,37,40,41,45,55	2.32	-0.64	1.49	2.11	-0.77	4.54	1.68	0.24	3.22	-0.89	0.97	-1.80	2.13	-10.90	2.45	-1.54	-2.17	**2.5**
2789	4656	2,4,7,9,10,15,23,26,31,34,36,39,41,40,42,46,48,52,53,54	2.29	0.92	4.96	0.96	-4.34	-3.18	0.25	1.71	-0.92	6.48	-0.57	0.11	1.76	-4.97	-3.11	2.28	-2.17	**2.5**
2790	2732	2,4,3,6,10,13,17,21,27,26,33,37,40,41,45,55	2.66	0.40	1.45	1.29	-1.50	3.68	0.96	-5.11	3.53	-2.04	1.14	-1.80	2.35	-4.31	-0.33	2.28	-2.17	**2.5**
2791	2608	2,4,3,6,10,13,17,18,20,23,27,28,34,35,37,40,41,45,55	2.67	0.92	0.04	2.77	1.15	1.97	-1.19	-2.35	5.47	2.59	0.44	-1.80	-0.79	-5.30	-0.33	-1.54	-2.17	**2.5**
2792	547	1,3,7,11,17,21,27,26,31,34,38,43,47,46,48,51	-0.59	-0.64	-0.94	5.78	0.16	1.97	1.68	4.21	-0.14	-8.07	1.52	2.02	-2.39	-9.58	1.06	2.28	4.21	**2.5**
2793	1448	1,6,10,13,17,21,27,26,30,32,48,52,53,54	0.44	-0.12	5.01	-9.77	-6.31	2.82	5.26	-8.69	3.04	-4.71	0.61	-3.71	8.10	2.94	2.45	2.28	2.94	**2.6**
2794	772	1,3,7,9,10,13,17,19,22,25,29,36,35,37,40,43,50,54	-0.25	1.18	-2.44	-6.99	0.02	1.11	0.96	-2.85	-1.09	-2.55	-0.50	-1.80	3.34	17.10	1.06	-1.54	-2.17	**2.6**
2795	3568	2,4,3,6,9,11,17,18,20,23,27,28,31,30,32,48,52,53,54	0.76	0.92	4.34	-6.06	-4.74	0.25	4.55	-1.37	4.88	-0.10	0.05	-3.71	6.44	-4.64	-0.33	-1.54	2.94	**2.6**
2796	4322	2,4,7,11,17,21,28,31,33,37,40,41,45,55	2.06	-0.64	1.37	2.41	-0.32	3.68	2.40	4.65	3.54	-0.94	0.82	-1.80	1.82	-9.58	-3.11	-1.54	-2.17	**2.6**
2797	1141	1,3,7,9,10,16,20,23,26,31,34,36,39,41,43,47,49,53,54	-0.44	0.92	-3.44	-0.70	1.28	-2.32	-2.62	3.91	0.51	7.27	-1.43	0.11	-3.83	2.28	1.06	2.28	-2.17	**2.7**
2798	4676	2,4,7,9,10,15,23,26,33,37,40,41,45,55	2.33	-0.12	1.76	-1.98	-1.87	1.97	-0.47	2.74	5.10	0.54	0.38	-1.80	2.08	-4.97	-3.11	2.28	-2.17	**2.7**
2799	4365	2,4,7,9,10,12,14,30,31,34,35,37,40,43,47,49,53,54	0.36	-0.38	-2.25	5.14	7.37	1.11	0.96	2.33	-4.65	2.67	0.10	0.11	-2.69	-0.69	-3.11	-1.54	-2.17	**2.7**
2800	1415	1,6,10,13,17,19,22,25,29,36,35,37,40,41,44,55	1.44	-0.64	3.49	-7.90	-0.72	0.25	-0.47	-8.36	-2.46	-2.62	0.09	-1.80	7.87	15.78	2.45	-1.54	-2.17	**2.7**
2801	4983	2,4,7,9,8,14,30,31,34,36,39,44,55	0.45	-2.45	15.47	-1.03	0.81	-3.18	1.68	-1.88	-12.18	12.69	-0.91	0.11	8.90	-8.92	-3.11	-1.54	-2.17	**2.7**
2802	1050	1,3,7,9,10,16,18,21,27,26,31,34,36,39,41,40,42,49,53,54	-0.18	1.44	-2.15	-2.34	1.23	-0.60	-1.19	1.15	-1.64	4.41	-0.99	0.11	-0.93	3.26	1.06	2.28	-2.17	**2.8**
2803	2564	2,4,3,6,10,13,17,18,20,23,26,31,34,36,39,41,40,42,46,48,52,53,54	2.60	1.44	3.52	5.47	-4.13	-3.18	0.25	-3.38	-0.34	6.56	-0.22	0.11	-0.41	-5.30	-0.33	2.28	-2.17	**2.8**
2804	3594	2,4,3,6,9,11,17,18,20,23,27,28,34,36,39,41,43,47,46,48,52,53,54	2.48	1.18	3.70	7.52	-2.68	-3.18	0.96	1.58	-0.64	8.54	-0.45	0.11	-0.41	-11.89	-0.33	-1.54	-2.17	**2.8**
2805	351	1,3,7,11,13,16,20,23,27,28,34,36,39,41,40,42,47,50,54	-0.56	0.14	-3.23	1.21	2.66	-0.60	-1.19	6.78	2.49	9.62	-1.85	-1.80	-3.93	-4.31	1.06	-1.54	-2.17	**2.8**

		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
2806	2338	1,6,9,11,17,18,20,23,27,28,34,36,39,41,40,42,46,48,52,53,54	2.30	-0.12	3.60	6.29	-3.40	-2.32	0.96	1.98	-0.64	8.31	-0.47	0.11	-0.67	-11.89	2.45	-1.54	-2.17	**2.8**
2807	2878	2,4,3,6,10,16,18,19,22,24,29,36,35,37,40,43,50,54	0.45	0.92	-2.08	-4.15	-0.12	0.25	-1.19	-8.14	0.32	-2.86	-0.09	-1.80	3.61	21.71	-0.33	-1.54	-2.17	**2.8**
2808	302	1,3,7,11,13,16,20,23,26,31,34,36,39,41,43,50,54	-0.81	0.40	-3.00	0.63	1.39	-2.32	-1.19	6.78	3.91	7.24	-1.57	-1.80	-3.72	-4.31	1.06	2.28	-2.17	**2.8**
2809	614	1,3,7,9,10,12,14,30,31,34,35,37,42,49,53,54	0.03	-1.41	-2.46	4.40	6.91	0.25	0.96	2.73	-4.65	2.44	0.10	0.11	-3.17	-0.69	1.06	-1.54	-2.17	**2.9**
2810	2790	2,4,3,6,10,15,23,26,31,34,35,37,40,41,45,55	2.63	0.92	1.98	-1.35	-0.03	1.97	-1.91	-2.07	5.96	0.52	0.53	-1.80	2.12	-6.29	-0.33	2.28	-2.17	**3.0**
2811	3457	2,4,3,6,9,11,13,16,20,23,26,31,34,38,40,42,46,48,51	-0.27	0.66	-1.98	7.69	1.52	-0.60	-1.19	1.77	1.69	-5.50	1.25	2.02	-4.62	-5.63	-0.33	2.28	4.21	**3.0**
2812	3090	2,4,3,6,10,16,20,23,27,28,34,36,39,41,40,42,46,48,53,54	2.20	-0.12	2.83	5.40	-1.88	-3.18	-0.47	-3.38	-1.75	8.63	-0.60	0.11	-1.74	0.96	-0.33	-1.54	-2.17	**3.0**
2813	4194	2,4,7,11,17,18,20,23,27,28,34,36,39,41,40,42,46,48,52,53,54	2.04	-0.12	3.48	6.59	-2.95	-3.18	1.68	6.39	-0.33	8.26	-0.62	0.11	-0.98	-10.57	-3.11	-1.54	-2.17	**3.0**
2814	2584	2,4,3,6,10,13,17,18,20,23,26,33,37,40,41,45,55	2.65	0.40	0.32	2.52	-1.67	1.97	-0.47	-2.35	5.68	0.62	0.73	-1.80	-0.08	-5.30	-0.33	2.28	-2.17	**3.0**
2815	1909	1,6,9,11,13,12,14,30,31,34,35,37,42,47,50,54	0.27	-1.67	-1.67	6.63	7.27	1.97	1.68	0.80	-1.56	3.00	0.14	-1.80	-2.21	-8.59	2.45	-1.54	-2.17	**3.0**
2816	3728	2,4,3,6,9,11,17,21,28,34,35,37,40,41,45,55	2.41	0.40	1.63	3.04	1.53	3.68	0.96	-0.16	4.43	-1.11	0.96	-1.80	1.96	-10.90	-0.33	-1.54	-2.17	**3.0**
2817	4452	2,4,7,9,10,13,17,18,20,23,27,28,31,30,32,48,52,53,54	0.61	0.92	3.68	-8.10	-5.00	0.25	4.55	-1.53	4.11	0.11	-0.15	-3.71	5.73	3.26	-3.11	-1.54	2.94	**3.0**
2818	399	1,3,7,11,17,18,20,23,26,31,34,38,43,47,46,48,51	-0.61	-0.64	-2.07	7.02	-0.01	0.25	0.25	6.97	2.01	-5.41	1.10	2.02	-4.82	-10.57	1.06	2.28	4.21	**3.0**
2819	2907	2,4,3,6,10,16,18,19,22,25,29,36,35,37,40,47,49,53,54	0.11	1.18	-2.39	-5.73	1.87	0.25	-1.19	-5.97	-3.76	-2.70	-0.21	0.11	3.48	22.04	-0.33	-1.54	-2.17	**3.0**
2820	4819	2,4,7,9,10,16,18,21,27,26,31,34,38,43,47,46,48,51	-0.36	0.40	-1.46	4.40	1.42	1.11	0.25	-1.15	-1.21	-7.75	1.43	2.02	-2.68	3.26	-3.11	2.28	4.21	**3.1**
2821	1300	1,6,10,13,17,18,20,23,26,30,32,48,52,53,54	0.43	-0.12	3.88	-8.53	-6.48	1.11	3.83	-5.93	5.18	-2.05	0.20	-3.71	5.67	1.95	2.45	2.28	2.94	**3.1**
2822	2980	2,4,3,6,10,16,18,21,28,31,30,32,48,52,53,54	0.42	0.40	4.56	-9.01	-3.55	1.97	4.55	-9.09	1.62	-3.22	0.35	-3.71	7.55	9.19	-0.33	-1.54	2.94	**3.1**
2823	4478	2,4,7,9,10,13,17,18,20,23,27,28,34,36,39,41,43,47,46,48,52,53,54	2.33	1.18	3.04	5.47	-2.94	-3.18	0.96	1.43	-1.41	8.75	-0.65	0.11	-1.11	-3.98	-3.11	-1.54	-2.17	**3.2**
2824	3765	2,4,7,11,13,12,14,30,31,34,35,37,42,47,50,54	0.02	-1.67	-1.79	6.92	7.72	1.11	2.40	5.21	-1.25	2.95	-0.01	-1.80	-2.52	-7.27	-3.11	-1.54	-2.17	**3.2**
2825	3613	2,4,3,6,9,11,17,19,22,24,29,36,35,37,40,43,47,49,53,54	0.78	1.96	-1.25	-1.84	-0.81	0.25	-0.47	-1.10	-0.90	-3.41	0.27	0.11	4.78	8.86	-0.33	-1.54	-2.17	**3.2**
2826	954	1,3,7,9,10,15,23,27,28,34,36,39,41,40,42,46,48,52,53,54	2.18	0.40	4.52	0.75	-3.55	-2.32	0.25	2.11	-2.33	8.52	-0.87	0.11	1.05	-4.97	1.06	-1.54	-2.17	**3.2**
2827	3006	2,4,3,6,10,16,18,21,28,34,36,39,41,43,47,46,48,52,53,54	2.14	0.66	3.92	4.56	-1.49	-1.46	0.96	-6.14	-3.90	5.42	-0.15	0.11	0.71	1.95	-0.33	-1.54	-2.17	**3.3**
2828	1750	1,6,10,16,18,21,28,34,36,39,41,40,42,46,48,52,53,54	1.96	-0.64	3.82	3.34	-2.21	-0.60	0.96	-5.74	-3.90	5.19	-0.17	0.11	0.45	1.95	2.45	-1.54	-2.17	**3.3**
2829	2109	1,6,9,11,13,16,18,21,27,26,31,34,36,39,41,40,42,47,50,54	0.06	1.70	-1.36	-0.12	1.59	1.11	-0.47	-0.78	1.45	4.97	-0.95	-1.80	0.03	-4.64	2.45	2.28	-2.17	**3.4**
2830	4612	2,4,7,9,10,13,17,21,28,34,35,37,40,41,45,55	2.26	0.40	0.97	1.00	1.26	3.68	0.96	-0.31	3.67	-0.91	0.76	-1.80	1.25	-2.99	-3.11	-1.54	-2.17	**3.4**
2831	2716	2,4,3,6,10,13,17,21,27,26,31,34,36,39,41,43,47,46,48,52,53,54	2.62	1.70	4.67	4.63	-3.74	-1.46	1.68	-6.14	-2.48	4.10	0.20	0.11	2.06	-4.31	-0.33	2.28	-2.17	**3.4**
2832	1460	1,6,10,13,17,21,27,26,31,34,36,39,41,40,42,46,48,52,53,54	2.44	0.40	4.57	3.41	-4.47	-0.60	1.68	-5.74	-2.48	3.87	0.19	0.11	1.80	-4.31	2.45	2.28	-2.17	**3.4**
2833	3200	2,4,3,6,9,11,13,15,23,26,30,32,48,52,53,54	0.65	1.18	6.22	-9.77	-5.69	0.25	3.83	-1.09	5.37	-2.31	0.13	-3.71	9.10	-5.63	-0.33	2.28	2.94	**3.4**
2834	775	1,3,7,9,10,13,17,19,22,25,29,36,35,37,42,47,50,54	-0.21	0.92	-2.43	-6.53	0.27	1.11	0.96	-2.85	-1.09	-2.25	-0.48	-1.80	3.38	17.10	1.06	-1.54	-2.17	**3.5**
2835	1994	1,6,9,11,13,15,23,27,28,31,33,37,40,41,45,55	2.62	0.14	2.15	-0.23	-0.86	2.82	-0.47	3.29	4.45	2.52	0.38	-1.80	2.59	-12.87	2.45	-1.54	-2.17	**3.5**
2836	2686	2,4,3,6,10,13,17,19,22,25,29,36,38,43,50,54	-0.49	0.40	-2.85	-6.27	3.90	-0.60	0.25	-6.58	-0.14	-2.37	-0.51	-1.80	2.46	15.78	-0.33	-1.54	4.21	**3.5**
2837	492	1,3,7,11,17,19,22,25,29,36,35,37,40,43,50,54	-0.53	0.14	-1.99	-5.47	0.23	1.11	1.68	2.11	-0.02	-2.84	-0.46	-1.80	3.51	10.51	1.06	-1.54	-2.17	**3.5**
2838	4764	2,4,7,9,10,16,18,19,22,25,29,36,35,37,40,43,50,54	-0.29	0.66	-2.51	-6.84	1.49	0.25	0.25	-3.25	-1.09	-2.52	-0.56	-1.80	3.23	23.35	-3.11	-1.54	-2.17	**3.5**
2839	1863	1,6,8,14,30,31,34,35,37,42,46,48,51	3.23	-2.45	13.46	5.99	-2.86	0.25	5.26	-6.86	-14.70	-0.03	2.05	3.93	7.78	-10.24	2.45	-1.54	-2.17	**3.5**
2840	3965	2,4,7,11,13,16,18,21,27,26,31,34,36,39,41,40,42,47,50,54	-0.19	1.70	-1.48	0.18	2.04	0.25	0.25	3.62	1.76	4.92	-1.10	-1.80	-0.28	-3.32	-3.11	2.28	-2.17	**3.5**
2841	795	1,3,7,9,10,13,17,19,22,25,29,39,44,55	-2.72	-0.64	6.72	-9.81	-3.60	-3.18	-0.47	-2.98	-2.23	5.30	-1.99	-1.80	6.52	17.10	1.06	-1.54	-2.17	**3.6**
2842	4497	2,4,7,9,10,13,17,19,22,24,29,36,35,37,40,43,47,49,53,54	0.63	1.96	-1.91	-3.89	-1.08	0.25	-0.47	-1.25	-1.66	-3.20	0.07	0.11	4.07	16.77	-3.11	-1.54	-2.17	**3.6**
2843	3463	2,4,3,6,9,11,13,16,20,23,26,31,34,38,43,47,46,48,51	-0.27	0.40	-1.97	8.09	1.74	-0.60	-1.19	1.77	1.69	-5.30	1.25	2.02	-4.58	-5.63	-0.33	2.28	4.21	**3.6**
2844	4660	2,4,7,9,10,15,23,26,31,34,36,39,41,43,47,46,48,52,53,54	2.29	1.18	4.98	1.36	-4.12	-3.18	0.25	1.71	-0.92	6.68	-0.56	0.11	1.79	-4.97	-3.11	2.28	-2.17	**3.6**
2845	2505	2,4,3,6,10,12,14,30,31,34,35,37,40,41,44,55	1.99	-1.67	3.71	4.12	6.56	0.25	0.25	-5.27	-3.69	2.87	0.50	-1.80	1.86	-2.01	-0.33	-1.54	-2.17	**3.6**
2846	3141	2,4,3,6,8,14,30,33,37,40,43,47,46,48,51	3.60	-1.15	13.59	7.10	-3.92	1.11	5.98	-7.26	-15.91	0.30	2.05	3.93	8.48	-10.24	-0.33	-1.54	-2.17	**3.6**
2847	1480	1,6,10,13,17,21,27,26,33,37,40,41,45,55	2.49	-0.64	1.36	0.46	-2.00	4.54	0.96	-4.72	3.53	-2.07	1.13	-1.80	2.12	-4.31	2.45	2.28	-2.17	**3.6**
2848	2881	2,4,3,6,10,16,18,19,22,24,29,36,35,37,42,47,50,54	0.48	0.66	-2.06	-3.70	0.13	0.25	-1.19	-8.14	0.32	-2.55	-0.07	-1.80	3.66	21.71	-0.33	-1.54	-2.17	**3.7**
2849	3850	2,4,7,11,13,15,23,27,28,31,33,37,40,41,45,55	2.36	0.14	2.03	0.07	-0.41	1.97	0.25	7.69	4.76	2.47	0.23	-1.80	2.28	-11.56	-3.11	-1.54	-2.17	**3.7**
2850	1356	1,6,10,13,17,18,20,23,27,28,34,35,37,40,41,45,55	2.49	-0.12	-0.05	1.94	0.64	2.82	-1.19	-1.95	5.47	2.56	0.43	-1.80	-1.01	-5.30	2.45	-1.54	-2.17	**3.7**
2851	2901	2,4,3,6,10,16,18,19,22,24,29,39,44,55	-2.02	-0.90	7.09	-6.98	-3.74	-4.03	-2.62	-8.28	-0.82	4.99	-1.58	-1.80	6.79	21.71	-0.33	-1.54	-2.17	**3.8**
2852	2316	1,6,9,11,17,18,20,23,27,28,31,30,32,48,52,53,54	0.58	-0.12	4.25	-6.88	-5.24	1.11	4.55	-0.98	4.88	-0.13	0.04	-3.71	6.22	-4.64	2.45	-1.54	2.94	**3.8**
2853	746	1,3,7,9,10,13,17,19,22,24,29,36,35,37,40,43,47,49,53,54	0.30	0.92	-2.12	-4.63	-1.53	-0.60	-0.47	-0.85	-1.66	-3.43	0.07	0.11	3.59	16.77	1.06	-1.54	-2.17	**3.8**
2854	3324	2,4,3,6,9,11,13,16,18,19,22,25,29,36,35,37,42,49,53,54	-0.03	1.18	-1.85	-4.21	2.08	-1.46	-0.47	-1.01	-2.66	-3.19	-0.08	0.11	3.99	15.45	-0.33	-1.54	-2.17	**3.8**
2855	4391	2,4,7,9,10,12,14,30,33,37,40,41,44,55	1.69	-2.19	3.48	3.48	4.72	0.25	1.68	-0.46	-4.55	2.89	0.34	-1.80	1.82	-0.69	-3.11	-1.54	-2.17	**3.8**
2856	1137	1,3,7,9,10,16,20,23,26,31,34,36,39,41,40,42,47,50,54	-0.31	0.66	-3.30	-0.84	1.20	-0.60	-1.91	1.83	2.83	7.84	-1.62	-1.80	-3.55	2.28	1.06	2.28	-2.17	**3.9**
2857	2568	2,4,3,6,10,13,17,18,20,23,26,31,34,36,39,41,43,47,46,48,52,53,54	2.60	1.70	3.54	5.87	-3.91	-3.18	0.25	-3.38	-0.34	6.76	-0.21	0.11	-0.37	-5.30	-0.33	2.28	-2.17	**3.9**
2858	1312	1,6,10,13,17,18,20,23,26,31,34,36,39,41,40,42,46,48,52,53,54	2.42	0.40	3.44	4.64	-4.64	-2.32	0.25	-2.98	-0.34	6.53	-0.23	0.11	-0.63	-5.30	2.45	2.28	-2.17	**3.9**
2859	2342	1,6,9,11,17,18,20,23,27,28,34,36,39,41,43,47,46,48,52,53,54	2.31	0.14	3.61	6.69	-3.18	-2.32	0.96	1.98	-0.64	8.51	-0.47	0.11	-0.63	-11.89	2.45	-1.54	-2.17	**3.9**
2860	1626	1,6,10,16,18,19,22,24,29,36,35,37,40,43,50,54	0.28	-0.12	-2.17	-4.98	-0.62	1.11	-1.19	-7.74	0.32	-2.89	-0.10	-1.80	3.39	21.71	2.45	-1.54	-2.17	**3.9**

Table F-3: Weighted, Sorted Z-scores for All Routes

		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
2861	3068	2,4,3,6,10,16,20,23,27,28,31,30,32,48,52,53,54	0.48	-0.12	3.48	-7.77	-3.72	0.25	3.11	-6.33	3.77	0.19	-0.10	-3.71	5.15	8.20	-0.33	-1.54	2.94	**4.0**
2862	4172	2,4,7,11,17,18,20,23,27,28,31,30,32,48,52,53,54	0.33	-0.12	4.13	-6.58	-4.80	0.25	5.26	3.43	5.19	-0.18	-0.11	-3.71	5.91	-3.32	-3.11	-1.54	2.94	**4.0**
2863	3256	2,4,3,6,9,11,13,15,23,27,28,34,35,37,40,41,45,55	2.71	1.18	2.29	0.71	1.43	1.97	-1.19	2.89	5.65	2.30	0.37	-1.80	2.42	-12.87	-0.33	-1.54	-2.17	**4.0**
2864	36	1,3,7,11,13,12,14,30,33,37,40,43,50,54	-0.15	-1.93	-1.97	6.02	5.44	1.97	3.11	5.61	-2.45	2.72	-0.05	-1.80	-2.57	-7.27	1.06	-1.54	-2.17	**4.0**
2865	1538	1,6,10,15,23,26,31,34,35,37,40,41,45,55	2.45	-0.12	1.89	-2.17	-0.53	2.82	-1.91	-1.67	5.96	0.49	0.52	-1.80	1.90	-6.29	2.45	2.28	-2.17	**4.1**
2866	2205	1,6,9,11,13,16,20,23,26,31,34,38,40,42,46,48,51	-0.45	-0.38	-2.07	6.86	1.01	0.25	-1.19	2.17	1.69	-5.53	1.24	2.02	-4.84	-5.63	2.45	2.28	4.21	**4.1**
2867	3094	2,4,3,6,10,16,20,23,27,28,34,36,39,41,43,47,46,48,52,53,54	2.20	0.14	2.85	5.80	-1.66	-3.18	-0.47	-3.38	-1.75	8.83	-0.60	0.11	-1.70	0.96	-0.33	-1.54	-2.17	**4.1**
2868	4198	2,4,7,11,17,18,20,23,27,28,34,36,39,41,43,47,46,48,52,53,54	2.05	0.14	3.49	6.99	-2.73	-3.18	1.68	6.39	-0.33	8.46	-0.62	0.11	-0.94	-10.57	-3.11	-1.54	-2.17	**4.1**
2869	1838	1,6,10,16,20,23,27,28,34,36,39,41,40,42,46,48,52,53,54	2.02	-1.15	2.74	4.58	-2.38	-2.32	-0.47	-2.98	-1.75	8.60	-0.62	0.11	-1.96	0.96	2.45	-1.54	-2.17	**4.1**
2870	1332	1,6,10,13,17,18,20,23,26,33,37,40,41,45,55	2.47	-0.64	0.23	1.70	-2.17	2.82	-0.47	-1.95	5.68	0.59	0.71	-1.80	-0.31	-5.30	2.45	2.28	-2.17	**4.1**
2871	2476	1,6,9,11,17,21,28,34,35,37,40,41,45,55	2.24	-0.64	1.54	2.22	1.02	4.54	0.96	0.24	4.43	-1.14	0.95	-1.80	1.73	-10.90	2.45	-1.54	-2.17	**4.1**
2872	1053	1,3,7,9,10,16,18,21,27,26,31,34,36,39,41,43,47,49,53,54	-0.17	1.96	-2.13	-1.94	1.45	-0.60	-1.19	1.15	-1.64	4.61	-0.99	0.11	-0.89	3.26	1.06	2.28	-2.17	**4.2**
2873	1655	1,6,10,16,18,19,22,25,29,36,35,37,40,43,47,49,53,54	-0.07	0.14	-2.48	-6.55	1.37	1.11	-1.19	-5.57	-3.76	-2.73	-0.23	0.11	3.25	22.04	2.45	-1.54	-2.17	**4.2**
2874	271	1,3,7,11,13,16,18,21,28,34,38,40,42,46,48,51	-0.87	-0.38	-1.55	5.72	2.42	1.97	0.96	4.21	-1.55	-6.95	1.23	2.02	-3.45	-3.32	1.06	-1.54	4.21	**4.2**
2875	3570	2,4,3,6,9,11,17,18,20,23,27,28,31,33,37,40,41,45,55	2.81	0.92	0.68	4.17	-0.43	1.97	0.25	2.60	5.37	2.55	0.57	-1.80	0.46	-11.89	-0.33	-1.54	-2.17	**4.2**
2876	3157	2,4,3,6,9,11,13,12,14,30,31,34,35,37,40,43,47,49,53,54	0.72	0.14	-1.44	7.59	7.85	1.11	0.96	2.49	-3.89	2.46	0.38	0.11	-1.65	-8.59	-0.33	-1.54	-2.17	**4.2**
2877	932	1,3,7,9,10,15,23,27,28,31,30,32,48,52,53,54	0.46	0.40	5.18	-12.42	-5.39	1.11	3.83	-0.84	3.19	0.08	-0.36	-3.71	7.94	2.28	1.06	-1.54	2.94	**4.2**
2878	1728	1,6,10,16,18,21,28,31,30,32,48,52,53,54	0.25	-0.64	4.47	-9.83	-4.05	2.82	4.55	-8.69	1.62	-3.25	0.34	-3.71	7.33	9.19	2.45	-1.54	2.94	**4.2**
2879	3212	2,4,3,6,9,11,13,15,23,26,31,34,36,39,41,40,42,46,48,52,53,54	2.64	1.70	5.77	3.41	-3.85	-3.18	0.25	1.87	-0.15	6.28	-0.29	0.11	2.80	-12.87	-0.33	2.28	-2.17	**4.2**
2880	4061	2,4,7,11,13,16,20,23,26,31,34,38,40,42,46,48,51	-0.71	-0.38	-2.19	7.16	1.46	-0.60	-0.47	6.57	2.01	-5.58	1.08	2.02	-5.15	-4.31	-3.11	2.28	4.21	**4.3**
2881	214	1,3,7,11,13,16,18,21,27,26,31,34,36,39,41,43,50,54	-0.55	1.44	-1.69	-0.61	1.56	-0.60	0.25	4.02	1.76	4.58	-1.12	-1.80	-0.78	-3.32	1.06	2.28	-2.17	**4.3**
2882	4332	2,4,7,11,17,21,28,34,35,37,40,41,45,55	1.98	-0.64	1.42	2.52	1.47	3.68	1.68	4.65	4.74	-1.20	0.80	-1.80	1.42	-9.58	-3.11	-1.54	-2.17	**4.3**
2883	2361	1,6,9,11,17,19,22,24,29,36,35,37,40,43,47,49,53,54	0.60	0.92	-1.34	-2.67	-1.32	1.11	-0.47	-0.70	-0.90	-3.44	0.26	0.11	4.56	8.86	2.45	-1.54	-2.17	**4.3**
2884	958	1,3,7,9,10,15,23,27,28,34,36,39,41,43,47,46,48,52,53,54	2.18	0.66	4.54	1.15	-3.33	-2.32	0.25	2.11	-2.33	8.72	-0.86	0.11	1.09	-4.97	1.06	-1.54	-2.17	**4.3**
2885	866	1,3,7,9,10,13,17,21,28,34,36,39,41,40,42,46,48,52,53,54	2.08	0.40	4.01	3.50	-3.23	-0.60	2.40	-0.93	-3.55	5.11	-0.20	0.11	0.92	-2.99	1.06	-1.54	-2.17	**4.4**
2886	639	1,3,7,9,10,12,14,30,33,37,40,43,47,49,53,54	0.23	-0.90	-2.41	4.69	5.34	1.97	1.68	2.73	-5.86	2.74	0.08	0.11	-2.69	-0.69	1.06	-1.54	-2.17	**4.4**
2887	1754	1,6,10,16,18,21,28,34,36,39,41,43,47,46,48,52,53,54	1.97	-0.38	3.83	3.74	-1.99	-0.60	0.96	-5.74	-3.90	5.39	-0.17	0.11	0.48	1.95	2.45	-1.54	-2.17	**4.4**
2888	495	1,3,7,11,17,19,22,25,29,36,35,37,42,47,50,54	-0.49	-0.12	-1.98	-5.02	0.48	1.11	1.68	2.11	-0.02	-2.54	-0.44	-1.80	3.56	10.51	1.06	-1.54	-2.17	**4.4**
2889	4767	2,4,7,9,10,16,18,19,22,25,29,36,35,37,42,47,50,54	-0.26	0.40	-2.50	-6.39	1.74	0.25	0.25	-3.25	-1.09	-2.22	-0.53	-1.80	3.28	23.35	-3.11	-1.54	-2.17	**4.4**
2890	3232	2,4,3,6,9,11,13,15,23,26,33,37,40,41,45,55	2.69	0.66	2.56	0.46	-1.39	1.97	-0.47	2.89	5.86	0.33	0.65	-1.80	3.12	-12.87	-0.33	2.28	-2.17	**4.4**
2891	3369	2,4,3,6,9,11,13,16,18,21,27,26,31,34,38,40,42,46,48,51	-0.01	1.70	-0.67	6.45	1.69	1.11	0.25	-0.99	-0.45	-8.16	1.69	2.02	-1.67	-4.64	-0.33	2.28	4.21	**4.5**
2892	2694	2,4,3,6,10,13,17,19,22,25,29,39,41,43,50,54	0.11	0.66	3.81	-7.99	-2.77	-3.18	2.40	-7.48	-1.56	5.56	-1.77	-1.80	6.77	15.78	-0.33	-1.54	-2.17	**4.5**
2893	1233	1,3,7,9,8,14,30,31,34,38,41,44,55	1.26	-2.71	9.87	-2.80	7.25	-1.46	2.40	-0.58	-10.77	0.89	0.83	0.11	5.41	-8.92	1.06	-1.54	4.21	**4.5**
2894	515	1,3,7,11,17,19,22,25,29,39,44,55	-3.00	-1.67	7.18	-8.30	-3.39	-3.18	0.25	1.97	-1.16	5.01	-1.96	-1.80	6.70	10.51	1.06	-1.54	-2.17	**4.5**
2895	2637	2,4,3,6,10,13,17,19,22,24,29,36,35,37,40,41,44,55	2.26	0.66	4.05	-4.91	-1.88	-0.60	-1.19	-8.85	-0.70	-3.01	0.46	-1.80	8.61	15.45	-0.33	-1.54	-2.17	**4.5**
2896	4787	2,4,7,9,10,16,18,19,22,25,29,39,44,55	-2.76	-1.15	6.65	-9.67	-2.13	-4.03	-1.19	-3.38	-2.23	5.33	-2.05	-1.80	6.41	23.35	-3.11	-1.54	-2.17	**4.5**
2897	4217	2,4,7,11,17,19,22,24,29,36,35,37,40,43,47,49,53,54	0.35	0.92	-1.46	-2.37	-0.87	0.25	0.25	3.70	-0.59	-3.49	0.11	0.11	4.25	10.18	-3.11	-1.54	-2.17	**4.5**
2898	1464	1,6,10,13,17,21,27,26,31,34,36,39,41,43,47,46,48,52,53,54	2.44	0.66	4.58	3.80	-4.25	-0.60	1.68	-5.74	-2.48	4.07	0.19	0.11	1.84	-4.31	2.45	2.28	-2.17	**4.5**
2899	1948	1,6,9,11,13,15,23,26,30,32,48,52,53,54	0.47	0.14	6.13	-10.59	-6.20	1.11	3.83	-0.69	5.37	-2.34	0.12	-3.71	8.88	-5.63	2.45	2.28	2.94	**4.6**
2900	4454	2,4,7,9,10,13,17,18,20,23,27,28,31,33,37,40,41,45,55	2.65	0.92	0.02	2.13	-0.70	1.97	0.25	2.45	4.60	2.76	0.36	-1.80	-0.24	-3.98	-3.11	-1.54	-2.17	**4.6**
2901	1212	1,3,7,9,8,14,30,31,34,35,37,40,43,47,46,48,52,53,54	2.79	-1.15	11.12	4.41	0.26	0.25	5.26	-1.34	-13.87	0.08	1.72	2.02	4.62	-8.92	1.06	-1.54	-2.17	**4.6**
2902	298	1,3,7,11,13,16,20,23,26,31,34,36,39,41,40,42,49,53,54	-0.52	0.40	-2.86	0.82	1.49	-2.32	-1.91	8.87	1.58	6.79	-1.33	0.11	-3.36	-4.31	1.06	2.28	-2.17	**4.6**
2903	2982	2,4,3,6,10,16,18,21,28,31,33,37,40,41,45,55	2.47	0.40	0.90	1.22	0.76	3.68	0.25	-5.11	2.12	-0.57	0.86	-1.80	1.58	1.95	-0.33	-1.54	-2.17	**4.7**
2904	1434	1,6,10,13,17,19,22,25,29,36,38,43,50,54	-0.66	-0.64	-2.94	-7.09	3.40	0.25	0.25	-6.18	-0.14	-2.40	-0.52	-1.80	2.23	15.78	2.45	-1.54	4.21	**4.7**
2905	610	1,3,7,9,10,12,14,30,31,34,35,37,40,43,50,54	0.13	-0.90	-2.32	4.21	6.80	1.97	1.68	0.65	-2.32	2.90	-0.10	-1.80	-2.90	-0.69	1.06	-1.54	-2.17	**4.7**
2906	2211	1,6,9,11,13,16,20,23,26,31,34,38,43,47,46,48,51	-0.44	-0.64	-2.06	7.26	1.23	0.25	-1.19	2.17	1.69	-5.33	1.24	2.02	-4.81	-5.63	2.45	2.28	4.21	**4.7**
2907	466	1,3,7,11,17,19,22,24,29,36,35,37,42,49,53,54	0.02	-0.12	-1.67	-3.11	-1.33	-0.60	0.25	4.10	-0.59	-3.72	0.11	0.11	3.76	10.18	1.06	-1.54	-2.17	**4.7**
2908	3804	2,4,7,11,13,15,23,26,30,32,48,52,53,54	0.21	0.14	6.01	-10.30	-5.75	0.25	4.55	3.71	5.68	-2.39	-0.03	-3.71	8.57	-4.31	-3.11	2.28	2.94	**4.7**
2909	4738	2,4,7,9,10,16,18,19,22,24,29,36,35,37,42,49,53,54	0.25	0.40	-2.19	-4.49	-0.07	-1.46	-1.19	-1.25	-1.66	-3.40	0.01	0.11	3.48	23.02	-3.11	-1.54	-2.17	**4.7**
2910	1253	1,6,10,12,14,30,31,34,35,37,40,41,44,55	1.81	-2.71	3.62	3.30	6.06	1.11	0.25	-4.87	-3.69	2.84	0.48	-1.80	1.63	-2.01	2.45	-1.54	-2.17	**4.8**
2911	1889	1,6,8,14,30,33,37,40,43,47,46,48,51	3.43	-2.19	13.51	6.27	-4.43	1.97	5.98	-6.86	-15.91	0.27	2.04	3.93	8.26	-10.24	2.45	-1.54	-2.17	**4.8**
2912	3672	2,4,3,6,9,11,17,21,27,26,30,32,48,52,53,54	0.67	0.92	5.79	-7.43	-5.60	1.97	5.98	-4.14	4.14	-4.97	0.73	-3.71	9.18	-3.65	-0.33	2.28	2.94	**4.8**
2913	1629	1,6,10,16,18,19,22,24,29,36,35,37,42,47,50,54	0.31	-0.38	-2.15	-4.52	-0.37	1.11	-1.19	-7.74	0.32	-2.58	-0.08	-1.80	3.43	21.71	2.45	-1.54	-2.17	**4.8**
2914	277	1,3,7,11,13,16,18,21,28,34,38,43,47,46,48,51	-0.87	-0.64	-1.54	6.11	2.64	1.97	0.96	4.21	-1.55	-6.76	1.24	2.02	-3.41	-3.32	1.06	-1.54	4.21	**4.8**
2915	3639	2,4,3,6,9,11,17,19,22,25,29,36,35,37,40,41,44,55	1.67	0.40	4.27	-5.56	-0.01	-0.60	0.25	-3.80	-1.35	-2.88	0.20	-1.80	8.94	9.19	-0.33	-1.54	-2.17	**4.9**

		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
Rank	**Route**	**Segments**	**Total length**	**Heavy angles > 30 degrees**	**Length not along Transmission Line**	**Length not along Roads**	**Length not along Property Lines**	**Roads crossed**	**Streams and rivers crossed**	**Wetland acres in ROW**	**Woodland acres in ROW**	**Cropland acres in ROW**	**Open/Pasture land in ROW**	**Rare species/ Species of concern polygons crossed**	**Visibility rating**	**Residential proximity score**	**Businesses within 300ft**	**Public facilities within 300ft**	**Cultural sites within 1320ft**	**Sum**
2916	39	1,3,7,11,13,12,14,30,33,37,42,47,50,54	-0.11	-2.19	-1.96	6.47	5.69	1.97	3.11	5.61	-2.45	3.02	-0.03	-1.80	-2.53	-7.27	1.06	-1.54	-2.17	**4.9**
2917	1649	1,6,10,16,18,19,22,24,29,39,44,55	-2.19	-1.93	7.00	-7.80	-4.24	-3.18	-2.62	-7.88	-0.82	4.96	-1.60	-1.80	6.57	21.71	2.45	-1.54	-2.17	**4.9**
2918	4067	2,4,7,11,13,16,20,23,26,31,34,38,43,47,46,48,51	-0.70	-0.64	-2.18	7.56	1.68	-0.60	-0.47	6.57	2.01	-5.38	1.09	2.02	-5.12	-4.31	-3.11	2.28	4.21	**4.9**
2919	2072	1,6,9,11,13,16,18,19,22,25,29,36,35,37,42,49,53,54	-0.21	0.14	-1.94	-5.03	1.58	-0.60	-0.47	-0.61	-2.66	-3.22	-0.09	0.11	3.77	15.45	2.45	-1.54	-2.17	**5.0**
2920	359	1,3,7,11,13,16,20,23,27,28,34,38,40,42,46,48,51	-0.81	-0.90	-2.63	6.95	2.25	0.25	-0.47	6.97	0.60	-3.54	0.78	2.02	-5.86	-4.31	1.06	-1.54	4.21	**5.0**
2921	1316	1,6,10,13,17,18,20,23,26,31,34,36,39,41,43,47,46,48,52,53,54	2.43	0.66	3.45	5.04	-4.42	-2.32	0.25	-2.98	-0.34	6.73	-0.23	0.11	-0.59	-5.30	2.45	2.28	-2.17	**5.1**
2922	3375	2,4,3,6,9,11,13,16,18,21,27,26,31,34,38,43,47,46,48,51	0.00	1.44	-0.66	6.85	1.91	1.11	0.25	-0.99	-0.45	-7.96	1.70	2.02	-1.64	-4.64	-0.33	2.28	4.21	**5.1**
2923	1816	1,6,10,16,20,23,27,28,31,30,32,48,52,53,54	0.31	-1.15	3.40	-8.60	-4.22	1.11	3.11	-5.93	3.77	0.16	-0.11	-3.71	4.92	8.20	2.45	-1.54	2.94	**5.1**
2924	2004	1,6,9,11,13,15,23,27,28,34,35,37,40,41,45,55	2.54	0.14	2.20	-0.12	0.93	2.82	-1.19	3.29	5.65	2.27	0.35	-1.80	2.19	-12.87	2.45	-1.54	-2.17	**5.1**
2925	3928	2,4,7,11,13,16,18,19,22,25,29,36,35,37,42,49,53,54	-0.47	0.14	-2.06	-4.73	2.03	-1.46	0.25	3.80	-2.34	-3.27	-0.24	0.11	3.46	16.77	-3.11	-1.54	-2.17	**5.2**
2926	3130	2,4,3,6,8,14,30,31,34,38,40,42,46,48,52,53,54	2.54	-1.41	10.69	4.72	3.92	-1.46	4.55	-5.08	-12.92	0.07	1.71	2.02	3.71	-10.24	-0.33	-1.54	4.21	**5.2**
2927	4556	2,4,7,9,10,13,17,21,27,26,30,32,48,52,53,54	0.52	0.92	5.13	-9.47	-5.86	1.97	5.98	-4.29	3.38	-4.77	0.53	-3.71	8.47	4.25	-3.11	2.28	2.94	**5.2**
2928	2853	2,4,3,6,10,15,23,27,28,34,36,39,41,40,42,46,48,51	3.19	0.40	7.25	3.56	-5.94	-1.46	0.25	-3.80	-3.16	8.63	-0.48	2.02	5.09	-6.29	-0.33	-1.54	-2.17	**5.2**
2929	1842	1,6,10,16,20,23,27,28,34,36,39,41,43,47,46,48,51	2.03	-0.90	2.76	4.98	-2.16	-2.32	-0.47	-2.98	-1.75	8.80	-0.61	0.11	-1.92	0.96	2.45	-1.54	-2.17	**5.3**
2930	4523	2,4,7,9,10,13,17,19,22,25,29,36,35,37,40,41,44,55	1.51	0.40	3.61	-7.60	-0.27	-0.60	0.25	-3.96	-2.11	-2.67	0.00	-1.80	8.23	17.10	-3.11	-1.54	-2.17	**5.3**
2931	3524	2,4,3,6,9,11,17,18,20,23,26,30,32,48,52,53,54	0.66	0.92	4.66	-6.19	-5.77	0.25	4.55	-1.37	6.29	-2.31	0.31	-3.71	6.75	-4.64	-0.33	2.28	2.94	**5.3**
2932	586	1,3,7,11,17,21,28,34,36,39,41,40,42,46,48,52,53,54	1.80	-0.64	4.46	5.01	-3.02	-0.60	3.11	4.02	-2.47	4.82	-0.17	0.11	1.10	-9.58	1.06	-1.54	-2.17	**5.3**
2933	2534	2,4,3,6,10,12,14,30,31,34,38,43,50,54	-0.11	-1.93	-2.73	4.93	10.68	0.25	0.96	-3.09	-1.37	3.09	-0.11	-1.80	-3.78	-2.01	-0.33	-1.54	4.21	**5.3**
2934	2318	1,6,9,11,17,18,20,23,27,28,31,33,37,40,41,45,55	2.63	-0.12	0.60	3.35	-0.94	2.82	0.25	3.00	5.37	2.52	0.55	-1.80	0.24	-11.89	2.45	-1.54	-2.17	**5.3**
2935	1905	1,6,9,11,13,12,14,30,31,34,35,37,40,43,47,49,53,54	0.54	-0.90	-1.53	6.77	7.35	1.97	0.96	2.88	-3.89	2.43	0.36	0.11	-1.87	-8.59	2.45	-1.54	-2.17	**5.3**
2936	3860	2,4,7,11,13,15,23,27,28,34,35,37,40,41,45,55	2.28	0.14	2.08	0.18	1.38	1.97	-0.47	7.69	5.97	2.22	0.20	-1.80	1.88	-11.56	-3.11	-1.54	-2.17	**5.3**
2937	844	1,3,7,9,10,13,17,21,28,31,30,32,48,52,53,54	0.37	0.40	4.66	-9.68	-5.07	2.82	5.98	-3.89	1.97	-3.33	0.31	-3.71	7.81	4.25	1.06	-1.54	2.94	**5.3**
2938	3183	2,4,3,6,9,11,13,12,14,30,33,37,40,41,44,55	2.05	-1.67	4.29	5.93	5.21	0.25	1.68	-0.31	-3.79	2.68	0.61	-1.80	2.86	-8.59	-0.33	-1.54	-2.17	**5.3**
2939	1049	1,3,7,9,10,16,18,21,27,26,31,34,36,39,41,40,42,47,50,54	-0.05	1.70	-1.99	-2.08	1.37	1.11	-0.47	-0.93	0.69	5.18	-1.18	-1.80	-0.60	3.26	1.06	2.28	-2.17	**5.4**
2940	3216	2,4,3,6,9,11,13,15,23,26,31,34,36,39,41,43,47,46,48,52,53,54	2.65	1.96	5.78	3.80	-3.63	-3.18	0.25	1.87	-0.15	6.47	-0.29	0.11	2.83	-12.87	-0.33	2.28	-2.17	**5.4**
2941	1960	1,6,9,11,13,15,23,26,31,34,36,39,41,40,42,46,48,52,53,54	2.47	0.66	5.68	2.58	-4.35	-2.32	0.25	2.27	-0.15	6.25	-0.31	0.11	2.57	-12.87	2.45	2.28	-2.17	**5.4**
2942	870	1,3,7,9,10,13,17,21,28,34,36,39,41,43,47,46,48,52,53,54	2.09	0.66	4.03	3.89	-3.01	-0.60	2.40	-0.93	-3.55	5.31	-0.20	0.11	0.96	-2.99	1.06	-1.54	-2.17	**5.5**
2943	3070	2,4,3,6,10,16,20,23,27,28,31,33,37,40,41,45,55	2.53	-0.12	-0.17	2.46	0.59	1.97	-1.19	-2.35	4.26	2.84	0.42	-1.80	-0.83	0.96	-0.33	-1.54	-2.17	**5.5**
2944	4174	2,4,7,11,17,18,20,23,27,28,31,33,37,40,41,45,55	2.37	-0.12	0.48	3.65	-0.49	1.97	0.96	7.41	5.68	2.47	0.40	-1.80	-0.07	-10.57	-3.11	-1.54	-2.17	**5.5**
2945	613	1,3,7,9,10,12,14,30,31,34,35,37,42,47,50,54	0.16	-1.15	-2.30	4.66	7.05	1.97	1.68	0.65	-2.32	3.21	-0.08	-1.80	-2.85	-0.69	1.06	-1.54	-2.17	**5.5**
2946	3761	2,4,7,11,13,12,14,30,31,34,35,37,40,43,47,49,53,54	0.28	-0.90	-1.65	7.06	7.80	1.11	1.68	7.29	-3.57	2.38	0.21	0.11	-2.18	-7.27	-3.11	-1.54	-2.17	**5.5**
2947	742	1,3,7,9,10,13,17,19,22,24,29,36,35,37,40,43,50,54	0.40	1.44	-1.97	-4.82	-1.64	1.11	0.25	-2.94	0.66	-2.97	-0.13	-1.80	3.86	16.77	1.06	-1.54	-2.17	**5.6**
2948	3320	2,4,3,6,9,11,13,16,18,19,22,25,29,36,35,37,40,43,50,54	0.06	1.70	-1.71	-4.40	1.98	0.25	0.25	-3.09	-0.33	-2.73	-0.28	-1.80	4.27	15.45	-0.33	-1.54	-2.17	**5.6**
2949	3816	2,4,7,11,13,15,23,26,31,34,36,39,41,40,42,46,48,52,53,54	2.21	0.66	5.56	2.88	-3.90	-3.18	0.96	6.67	0.16	6.19	-0.46	0.11	2.26	-11.56	-3.11	2.28	-2.17	**5.6**
2950	1980	1,6,9,11,13,15,23,26,33,37,40,41,45,55	2.52	-0.38	2.47	-0.36	-1.89	2.82	-0.47	3.29	5.86	0.31	0.64	-1.80	2.90	-12.87	2.45	2.28	-2.17	**5.6**
2951	2542	2,4,3,6,10,12,14,30,33,37,42,46,48,52,53,54	2.65	-1.93	4.11	10.66	1.15	-0.60	3.83	-4.56	-6.70	2.03	1.22	0.11	-0.33	-2.01	-0.33	-1.54	-2.17	**5.6**
2952	4971	2,4,7,9,8,14,30,31,34,35,37,42,46,48,51	3.30	-1.93	13.58	6.28	-2.41	-0.60	5.98	-2.45	-14.36	-0.08	1.96	3.93	8.14	-8.92	-3.11	-1.54	-2.17	**5.6**
2953	3684	2,4,3,6,9,11,17,21,27,26,31,34,36,39,41,40,42,46,48,52,53,54	2.67	1.44	5.34	5.75	-3.75	-1.46	2.40	-1.18	-1.37	3.61	0.30	0.11	2.87	-10.90	-0.33	2.28	-2.17	**5.6**
2954	2117	1,6,9,11,13,16,18,21,27,26,31,34,38,40,42,46,48,51	-0.19	0.66	-0.76	5.63	1.18	1.97	0.25	-0.59	-0.45	-8.19	1.68	2.02	-1.90	-4.64	2.45	2.28	4.21	**5.6**
2955	1442	1,6,10,13,17,19,22,25,29,39,41,43,50,54	-0.06	-0.38	3.72	-8.81	-3.28	-2.32	2.40	-7.08	-1.56	5.53	-1.79	-1.80	6.54	15.78	2.45	-1.54	-2.17	**5.6**
2956	1385	1,6,10,13,17,19,22,24,29,36,35,37,40,41,44,55	2.08	-0.38	3.96	-5.73	-2.38	0.25	-1.19	-8.45	-0.70	-3.04	0.45	-1.80	8.39	15.45	2.45	-1.54	-2.17	**5.6**
2957	365	1,3,7,11,13,16,20,23,27,28,34,38,43,47,46,48,51	-0.81	-1.15	-2.62	7.35	2.47	0.25	-0.47	6.97	0.60	-3.34	0.79	2.02	-5.82	-4.31	1.06	-1.54	4.21	**5.7**
2958	4408	2,4,7,9,10,13,17,18,20,23,26,30,32,48,52,53,54	0.50	0.92	4.00	-8.23	-6.03	0.25	4.55	-1.53	5.53	-2.11	0.11	-3.71	6.04	3.26	-3.11	2.28	2.94	**5.7**
2959	934	1,3,7,9,10,15,23,27,28,31,33,37,40,41,45,55	2.51	0.40	1.52	-2.19	-1.08	2.82	-0.47	3.14	3.68	2.73	0.15	-1.80	1.96	-4.97	1.06	-1.54	-2.17	**5.7**
2960	10	1,3,7,11,13,12,14,30,31,34,35,37,42,49,53,54	-0.05	-1.93	-1.86	6.32	7.34	0.25	1.68	7.69	-3.57	2.15	0.21	0.11	-2.67	-7.27	1.06	-1.54	-2.17	**5.8**
2961	3136	2,4,3,6,8,14,30,31,34,38,43,47,46,48,52,53,54	2.55	-1.67	10.71	5.12	4.14	-1.46	4.55	-5.08	-12.92	0.27	1.71	2.02	3.74	-10.24	-0.33	-1.54	4.21	**5.8**
2962	3836	2,4,7,11,13,15,23,26,33,37,40,41,45,55	2.26	-0.38	2.36	-0.07	-1.44	1.97	0.25	7.69	6.18	0.25	0.49	-1.80	2.59	-11.56	-3.11	2.28	-2.17	**5.8**
2963	1730	1,6,10,16,18,21,28,31,33,37,40,41,45,55	2.29	-0.64	0.82	0.40	0.25	4.54	0.25	-4.72	2.12	-0.60	0.85	-1.80	1.35	1.95	2.45	-1.54	-2.17	**5.8**
2964	3704	2,4,3,6,9,11,17,21,27,26,33,37,40,41,45,55	2.72	0.40	2.14	2.80	-1.29	3.68	1.68	-0.16	4.64	-2.33	1.24	-1.80	3.20	-10.90	-0.33	2.28	-2.17	**5.8**
2965	771	1,3,7,9,10,13,17,19,22,25,29,36,35,37,40,43,47,49,53,54	0.05	1.70	-2.28	-6.39	0.35	1.11	0.25	-0.76	-3.42	-2.81	-0.26	0.11	3.73	17.10	1.06	-1.54	-2.17	**5.8**
2966	3973	2,4,7,11,13,16,18,21,27,26,31,34,38,40,42,46,48,51	-0.44	0.66	-0.88	5.92	1.63	1.11	0.96	3.81	-0.14	-8.24	1.53	2.02	-2.21	-3.32	-3.11	2.28	4.21	**5.8**
2967	4858	2,4,7,9,10,16,18,21,28,34,36,39,41,40,42,46,48,52,53,54	2.04	0.40	3.94	3.64	-1.76	-1.46	1.68	-1.33	-3.55	5.14	-0.26	0.11	0.81	3.26	-3.11	-1.54	-2.17	**5.8**
2968	2680	2,4,3,6,10,13,17,19,22,25,29,36,38,40,42,49,53,54	-0.19	0.92	-2.71	-6.08	4.01	-0.60	-0.47	-4.50	-2.47	-2.83	-0.27	0.11	2.81	15.78	-0.33	-1.54	4.21	**5.9**
2969	3580	2,4,3,6,9,11,17,18,20,23,27,28,34,35,37,40,41,45,55	2.72	0.92	0.73	4.28	1.35	1.97	-0.47	2.60	6.57	2.30	0.54	-1.80	0.06	-11.89	-0.33	-1.54	-2.17	**5.9**
2970	2420	1,6,9,11,17,21,27,26,30,32,48,52,53,54	0.49	-0.12	5.71	-8.25	-6.10	2.82	5.98	-3.74	4.14	-5.00	0.71	-3.71	8.95	-3.65	2.45	2.28	2.94	**5.9**

Table F-3: Weighted, Sorted Z-scores for All Routes

Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
2971	4568	2,4,7,9,10,13,17,21,27,26,31,34,36,39,41,40,42,46,48,52,53,54	2.51	1.44	4.69	3.70	-4.02	-1.46	2.40	-1.33	-2.14	3.82	0.10	0.11	2.17	-2.99	-3.11	2.28	-2.17	**6.0**
2972	2877	2,4,3,6,10,16,18,19,22,24,29,36,35,37,40,43,47,49,53,54	0.75	1.44	-1.92	-3.56	0.21	0.25	-1.91	-6.06	-2.01	-3.12	0.15	0.11	4.00	21.71	-0.33	-1.54	-2.17	**6.0**
2973	2387	1,6,9,11,17,19,22,25,29,36,35,37,40,41,44,55	1.49	-0.64	4.18	-6.39	-0.51	0.25	0.25	-3.40	-1.35	-2.91	0.18	-1.80	8.72	9.19	2.45	-1.54	-2.17	**6.0**
2974	301	1,3,7,11,13,16,20,23,26,31,34,36,39,41,43,47,49,53,54	-0.51	0.92	-2.85	1.22	1.71	-2.32	-1.91	8.87	1.58	6.98	-1.33	0.11	-3.33	-4.31	1.06	2.28	-2.17	**6.0**
2975	3536	2,4,3,6,9,11,17,18,20,23,26,31,34,36,39,41,40,42,46,48,52,53,54	2.65	1.44	4.21	6.98	-3.93	-3.18	0.96	1.58	0.77	6.27	-0.12	0.11	0.44	-11.89	-0.33	2.28	-2.17	**6.1**
2976	4276	2,4,7,11,17,21,27,26,30,32,48,52,53,54	0.24	-0.12	5.59	-7.96	-5.65	1.97	6.70	0.67	4.46	-5.06	0.56	-3.71	8.64	-2.33	-3.11	2.28	2.94	**6.1**
2977	210	1,3,7,11,13,16,18,21,27,26,31,34,36,39,41,40,42,49,53,54	-0.25	1.44	-1.55	-0.42	1.66	-0.60	-0.47	6.11	-0.56	4.12	-0.88	0.11	-0.42	-3.32	1.06	2.28	-2.17	**6.1**
2978	1145	1,3,7,9,10,16,20,23,26,31,34,38,40,42,46,48,51	-0.56	-0.38	-2.70	4.90	0.79	0.25	-1.19	2.02	0.93	-5.32	1.01	2.02	-5.48	2.28	1.06	2.28	4.21	**6.1**
2979	4588	2,4,7,9,10,13,17,21,27,26,33,37,40,41,45,55	2.56	0.40	1.48	0.76	-1.55	3.68	1.68	-0.31	3.87	-2.12	1.04	-1.80	2.49	-2.99	-3.11	2.28	-2.17	**6.2**
2980	2831	2,4,3,6,10,15,23,27,28,31,30,32,48,51	1.47	0.40	7.90	-9.62	-7.78	1.97	3.83	-6.76	2.36	0.20	0.02	-1.80	11.98	0.96	-0.33	-1.54	2.94	**6.2**
2981	4243	2,4,7,11,17,19,22,25,29,36,35,37,40,41,44,55	1.23	-0.64	4.06	-6.09	-0.06	-0.60	0.96	1.00	-1.03	-2.96	0.03	-1.80	8.41	10.51	-3.11	-1.54	-2.17	**6.2**
2982	2123	1,6,9,11,13,16,18,21,27,26,31,34,38,43,47,46,48,51	-0.18	0.40	-0.75	6.02	1.40	1.97	0.25	-0.59	-0.45	-7.99	1.69	2.02	-1.86	-4.64	2.45	2.28	4.21	**6.2**
2983	4464	2,4,7,9,10,13,17,18,20,23,27,28,34,35,37,40,41,45,55	2.57	0.92	0.07	2.24	1.09	1.97	-0.47	2.45	5.81	2.50	0.34	-1.80	-0.64	-3.98	-3.11	-1.54	-2.17	**6.2**
2984	564	1,3,7,11,17,21,28,31,30,32,48,52,53,54	0.09	-0.64	5.11	-8.16	-4.86	2.82	6.70	1.07	3.05	-3.62	0.34	-3.71	7.98	-2.33	1.06	-1.54	2.94	**6.3**
2985	1878	1,6,8,14,30,31,34,38,40,42,46,48,52,53,54	2.37	-2.45	10.60	3.90	3.41	-0.60	4.55	-4.68	-12.92	0.04	1.69	2.02	3.48	-10.24	2.45	-1.54	4.21	**6.3**
2986	3556	2,4,3,6,9,11,17,18,20,23,26,33,37,40,41,45,55	2.70	0.40	1.01	4.04	-1.46	1.97	0.25	2.60	6.78	0.33	0.82	-1.80	0.77	-11.89	-0.33	2.28	-2.17	**6.3**
2987	2690	2,4,3,6,10,13,17,19,22,25,29,39,41,40,42,49,53,54	0.41	0.66	3.95	-7.79	-2.67	-3.18	1.68	-5.39	-3.88	5.10	-1.54	0.11	7.12	15.78	-0.33	-1.54	-2.17	**6.3**
2988	114	1,3,7,11,13,15,23,27,28,34,36,39,41,40,42,46,48,52,53,54	2.10	0.14	5.12	2.67	-3.11	-2.32	0.96	7.07	-1.25	8.23	-0.76	0.11	1.56	-11.56	1.06	-1.54	-2.17	**6.3**
2989	2992	2,4,3,6,10,16,18,21,28,34,35,37,40,41,45,55	2.38	0.40	0.95	1.33	2.55	3.68	-0.47	-5.11	3.32	-0.82	0.84	-1.80	1.18	1.95	-0.33	-1.54	-2.17	**6.3**
2990	2857	2,4,3,6,10,15,23,27,28,34,36,39,41,43,47,46,48,51	3.19	0.66	7.27	3.95	-5.72	-1.46	0.25	-3.80	-3.16	8.83	-0.48	2.02	5.13	-6.29	-0.33	-1.54	-2.17	**6.3**
2991	1601	1,6,10,15,23,27,28,34,36,39,41,40,42,46,48,51	3.01	-0.64	7.16	2.73	-6.44	-0.60	0.25	-3.40	-3.16	8.60	-0.50	2.02	4.87	-6.29	2.45	-1.54	-2.17	**6.3**
2992	2765	2,4,3,6,10,13,17,21,28,34,36,39,41,40,42,46,48,51	3.09	0.40	6.74	6.30	-5.62	0.25	2.40	-6.85	-4.39	5.22	0.18	2.02	4.96	-4.31	-0.33	-1.54	-2.17	**6.4**
2993	2272	1,6,9,11,17,18,20,23,26,30,32,48,52,53,54	0.48	-0.12	4.58	-7.02	-6.27	1.11	4.55	-0.98	6.29	-2.34	0.29	-3.71	6.52	-4.64	2.45	2.28	2.94	**6.4**
2994	745	1,3,7,9,10,13,17,19,22,24,29,36,35,37,42,47,50,54	0.43	1.18	-1.96	-4.37	-1.39	1.11	0.25	-2.94	0.66	-2.66	-0.11	-1.80	3.91	16.77	1.06	-1.54	-2.17	**6.4**
2995	3979	2,4,7,11,13,16,18,21,27,26,31,34,38,43,47,46,48,51	-0.44	0.40	-0.87	6.32	1.85	1.11	0.96	3.81	-0.14	-8.04	1.54	2.02	-2.17	-3.32	-3.11	2.28	4.21	**6.4**
2996	3323	2,4,3,6,9,11,13,16,18,19,22,25,29,36,35,37,42,47,50,54	0.10	1.44	-1.69	-3.95	2.23	0.25	0.25	-3.09	-0.33	-2.42	-0.26	-1.80	4.32	15.45	-0.33	-1.54	-2.17	**6.4**
2997	590	1,3,7,11,17,21,28,34,36,39,41,43,47,46,48,52,53,54	1.81	-0.38	4.48	5.41	-2.80	-0.60	3.11	4.02	-2.47	5.01	-0.16	0.11	1.13	-9.58	1.06	-1.54	-2.17	**6.4**
2998	1282	1,6,10,12,14,30,31,34,38,43,50,54	-0.29	-2.97	-2.82	4.10	10.18	1.11	0.96	-2.69	-1.37	3.06	-0.12	-1.80	-4.00	-2.01	2.45	-1.54	4.21	**6.5**
2999	2656	2,4,3,6,10,13,17,19,22,24,29,36,38,43,50,54	0.16	0.66	-2.39	-4.10	2.24	-0.60	-0.47	-6.67	1.61	-2.79	-0.14	-1.80	2.98	15.45	-0.33	-1.54	4.21	**6.5**
3000	2702	2,4,3,6,10,13,17,21,27,26,31,34,35,37,40,41,45,55	2.86	1.44	1.70	1.40	0.29	3.68	0.25	-5.11	4.74	-2.14	1.20	-1.80	2.53	-4.31	-0.33	2.28	-2.17	**6.5**
3001	1931	1,6,9,11,13,12,14,30,33,37,40,41,44,55	1.87	-2.71	4.20	5.11	4.70	1.11	1.68	0.09	-3.79	2.65	0.60	-1.80	2.63	-8.59	2.45	-1.54	-2.17	**6.5**
3002	4420	2,4,7,9,10,13,17,18,20,23,26,31,34,36,39,41,40,42,46,48,52,53,54	2.50	1.44	3.56	4.94	-4.19	-3.18	0.96	1.43	0.01	6.48	-0.32	0.11	-0.26	-3.98	-3.11	2.28	-2.17	**6.5**
3003	462	1,3,7,11,17,19,22,24,29,36,35,37,40,43,50,54	0.12	0.40	-1.52	-3.30	-1.43	1.11	0.96	2.02	1.74	-3.26	-0.10	-1.80	4.04	10.18	1.06	-1.54	-2.17	**6.5**
3004	4734	2,4,7,9,10,16,18,19,22,24,29,36,35,37,40,43,50,54	0.35	0.92	-2.05	-4.68	-0.17	0.25	-0.47	-3.34	0.66	-2.94	-0.19	-1.80	3.75	23.02	-3.11	-1.54	-2.17	**6.5**
3005	1964	1,6,9,11,13,15,23,26,31,34,36,39,41,43,47,46,48,52,53,54	2.47	0.92	5.69	2.98	-4.13	-2.32	0.25	2.27	-0.15	6.44	-0.30	0.11	2.61	-12.87	2.45	2.28	-2.17	**6.5**
3006	765	1,3,7,9,10,13,17,19,22,24,29,39,44,55	-2.07	-0.38	7.19	-7.65	-5.26	-3.18	-1.19	-3.07	-0.48	4.88	-1.63	-1.80	7.05	16.77	1.06	-1.54	-2.17	**6.5**
3007	3343	2,4,3,6,9,11,13,16,18,19,22,25,29,39,44,55	-2.41	-0.12	7.46	-7.23	-1.64	-4.03	-1.19	-3.23	-1.47	5.12	-1.78	-1.80	7.45	15.45	-0.33	-1.54	-2.17	**6.5**
3008	3024	2,4,3,6,10,16,20,23,26,30,32,48,52,53,54	0.38	-0.12	3.81	-7.91	-4.75	0.25	3.11	-6.33	5.18	-2.02	0.16	-3.71	5.45	8.20	-0.33	2.28	2.94	**6.6**
3009	4128	2,4,7,11,17,18,20,23,26,30,32,48,52,53,54	0.22	-0.12	4.46	-6.72	-5.82	0.25	5.26	3.43	6.61	-2.40	0.14	-3.71	6.21	-3.32	-3.11	2.28	2.94	**6.6**
3010	1818	1,6,10,16,20,23,27,28,31,33,37,40,41,45,55	2.35	-1.15	-0.26	1.63	0.08	2.82	-1.19	-1.95	4.26	2.81	0.41	-1.80	-1.05	0.96	2.45	-1.54	-2.17	**6.7**
3011	3787	2,4,7,11,13,12,14,30,33,37,40,41,44,55	1.62	-2.71	4.08	5.40	5.15	0.25	2.40	4.50	-3.47	2.60	0.45	-1.80	2.32	-7.27	-3.11	-1.54	-2.17	**6.7**
3012	4646	2,4,7,9,10,15,23,26,31,34,35,37,40,41,45,55	2.53	0.92	2.01	-1.87	-0.08	1.97	-1.19	2.74	6.30	0.44	0.43	-1.80	2.26	-4.97	-3.11	2.28	-2.17	**6.7**
3013	4946	2,4,7,9,10,16,20,23,27,28,34,36,39,41,40,42,46,48,52,53,54	2.10	-0.12	2.86	4.87	-1.93	-3.18	0.25	1.43	-1.41	8.55	-0.71	0.11	-1.59	2.28	-3.11	-1.54	-2.17	**6.7**
3014	4440	2,4,7,9,10,13,17,18,20,23,26,33,37,40,41,45,55	2.55	0.40	0.35	2.00	-1.72	1.97	0.25	2.45	6.02	0.54	0.62	-1.80	0.06	-3.98	-3.11	2.28	-2.17	**6.7**
3015	2068	1,6,9,11,13,16,18,19,22,25,29,36,35,37,40,43,50,54	-0.11	0.66	-1.79	-5.22	1.47	1.11	0.25	-2.69	-0.33	-2.76	-0.30	-1.80	4.04	15.45	2.45	-1.54	-2.17	**6.7**
3016	3820	2,4,7,11,13,15,23,26,31,34,36,39,41,43,47,46,48,52,53,54	2.22	0.92	5.57	3.28	-3.68	-3.18	0.96	6.67	0.16	6.39	-0.45	0.11	2.30	-11.56	-3.11	2.28	-2.17	**6.7**
3017	1290	1,6,10,12,14,30,33,37,42,46,48,52,53,54	2.47	-2.97	4.02	9.84	0.65	0.25	3.83	-4.16	-6.70	2.01	1.20	0.11	-0.56	-2.01	2.45	-1.54	-2.17	**6.7**
3018	2685	2,4,3,6,10,13,17,19,22,25,29,36,38,43,47,49,53,54	-0.19	0.92	-2.70	-5.68	4.23	-0.60	-0.47	-4.50	-2.47	-2.63	-0.26	0.11	2.85	15.78	-0.33	-1.54	4.21	**6.7**
3019	3688	2,4,3,6,9,11,17,21,27,26,31,34,36,39,41,43,47,46,48,52,53,54	2.67	1.70	5.36	6.14	-3.53	-1.46	2.40	-1.18	-1.37	3.81	0.30	0.11	2.91	-10.90	-0.33	2.28	-2.17	**6.7**
3020	2432	1,6,9,11,17,21,27,26,31,34,36,39,41,40,42,46,48,52,53,54	2.49	0.40	5.26	4.92	-4.26	-0.60	2.40	-0.78	-1.37	3.58	0.28	0.11	2.65	-10.90	2.45	2.28	-2.17	**6.7**
3021	491	1,3,7,11,17,19,22,25,29,36,35,37,40,43,47,49,53,54	-0.23	0.66	-1.83	-4.88	0.56	1.11	0.96	4.20	-2.34	-3.11	-0.22	0.11	3.90	10.51	1.06	-1.54	-2.17	**6.7**
3022	1151	1,3,7,9,10,16,20,23,26,31,34,38,43,47,46,48,51	-0.56	-0.64	-2.69	5.30	1.01	0.25	-1.19	2.02	0.93	-5.12	1.02	2.02	-5.44	2.28	1.06	2.28	4.21	**6.7**
3023	4763	2,4,7,9,10,16,18,19,22,25,29,36,35,37,40,43,47,49,53,54	0.01	1.18	-2.36	-6.25	1.82	0.25	-0.47	-1.16	-3.42	-2.79	-0.32	0.11	3.62	23.35	-3.11	-1.54	-2.17	**6.8**
3024	3294	2,4,3,6,9,11,13,16,18,19,22,24,29,36,35,37,42,49,53,54	0.61	1.44	-1.38	-2.04	0.42	-1.46	-1.19	-1.10	-0.90	-3.61	0.29	0.11	4.52	15.12	-0.33	-1.54	-2.17	**6.8**
3025	4997	2,4,7,9,8,14,30,33,37,40,43,47,46,48,51	3.50	-1.67	13.63	6.57	-3.98	1.11	6.70	-2.45	-15.56	0.22	1.95	3.93	8.63	-8.92	-3.11	-1.54	-2.17	**6.8**

Table F-3: Weighted, Sorted Z-scores for All Routes

Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
Weights			3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
3026	4836	2,4,7,9,10,16,18,21,28,31,30,32,48,52,53,54	0.32	0.40	4.59	-9.54	-3.60	1.97	5.26	-4.29	1.97	-3.30	0.25	-3.71	7.70	10.51	-3.11	-1.54	2.94	**6.8**
3027	888	1,3,7,9,10,15,23,26,30,32,48,52,53,54	0.36	0.40	5.50	-12.56	-6.42	1.11	3.83	-0.84	4.60	-2.13	-0.10	-3.71	8.24	2.28	1.06	2.28	2.94	**6.8**
3028	3658	2,4,3,6,9,11,17,19,22,25,29,36,38,43,50,54	-0.44	0.40	-2.16	-4.75	4.11	-0.60	0.96	-1.62	0.96	-2.66	-0.41	-1.80	3.31	9.19	-0.33	-1.54	4.21	**6.8**
3029	846	1,3,7,9,10,13,17,21,28,31,33,37,40,41,45,55	2.41	0.40	1.01	0.55	-0.76	4.54	1.68	0.09	2.46	-0.68	0.82	-1.80	1.83	-2.99	1.06	-1.54	-2.17	**6.9**
3030	3924	2,4,7,11,13,16,18,19,22,25,29,36,35,37,40,43,50,54	-0.37	0.66	-1.91	-4.93	1.92	0.25	0.96	1.71	-0.02	-2.81	-0.45	-1.80	3.73	16.77	-3.11	-1.54	-2.17	**6.9**
3031	1884	1,6,8,14,30,31,34,38,43,47,46,48,52,53,54	2.37	-2.71	10.62	4.30	3.63	-0.60	4.55	-4.68	-12.92	0.24	1.70	2.02	3.52	-10.24	2.45	-1.54	4.21	**6.9**
3032	4288	2,4,7,11,17,21,27,26,31,34,36,39,41,40,42,46,48,52,53,54	2.23	0.40	5.14	5.22	-3.81	-1.46	3.11	3.62	-1.06	3.53	0.13	0.11	2.34	-9.58	-3.11	2.28	-2.17	**6.9**
3033	2452	1,6,9,11,17,21,27,26,33,37,40,41,45,55	2.54	-0.64	2.05	1.98	-1.79	4.54	1.68	0.24	4.64	-2.36	1.23	-1.80	2.97	-10.90	2.45	2.28	-2.17	**6.9**
3034	4862	2,4,7,9,10,16,18,21,28,34,36,39,41,43,47,46,48,52,53,54	2.04	0.66	3.95	4.04	-1.54	-1.46	1.68	-1.33	-3.55	5.33	-0.26	0.11	0.85	3.26	-3.11	-1.54	-2.17	**7.0**
3035	1012	1,3,7,9,10,16,18,19,22,25,29,36,35,37,42,49,53,54	-0.32	0.14	-2.57	-6.99	1.36	-0.60	-0.47	-0.76	-3.42	-3.01	-0.32	0.11	3.13	23.35	1.06	-1.54	-2.17	**7.0**
3036	2554	2,4,3,6,10,13,17,18,20,23,26,31,34,35,37,40,41,45,55	2.84	1.44	0.57	2.63	0.12	1.97	-1.19	-2.35	6.88	0.52	0.78	-1.80	0.10	-5.30	-0.33	2.28	-2.17	**7.0**
3037	1428	1,6,10,13,17,19,22,25,29,36,38,40,42,49,53,54	-0.37	-0.12	-2.80	-6.90	3.51	0.25	-0.47	-4.10	-2.47	-2.86	-0.28	0.11	2.59	15.78	2.45	-1.54	4.21	**7.0**
3038	2328	1,6,9,11,17,18,20,23,27,28,34,35,37,40,41,45,55	2.54	-0.12	0.64	3.46	0.85	2.82	-0.47	3.00	6.57	2.27	0.53	-1.80	-0.16	-11.89	2.45	-1.54	-2.17	**7.0**
3039	2674	2,4,3,6,10,13,17,19,22,25,29,36,35,37,42,49,52,53,54	2.47	0.66	4.24	-0.42	-3.84	-1.46	2.40	-8.05	-4.26	-3.52	0.88	0.11	6.08	15.78	-0.33	-1.54	-2.17	**7.0**
3040	3111	2,4,3,6,8,14,30,31,34,35,37,40,43,47,46,48,51	3.80	-0.64	13.85	7.21	-2.14	1.11	5.26	-7.26	-14.70	0.20	2.10	3.93	8.66	-10.24	-0.33	-1.54	-2.17	**7.1**
3041	4572	2,4,7,9,10,13,17,21,27,26,31,34,36,39,41,43,47,46,48,52,53,54	2.52	1.70	4.70	4.10	-3.80	-1.46	2.40	-1.33	-2.14	4.02	0.10	0.11	2.20	-2.99	-3.11	2.28	-2.17	**7.1**
3042	4308	2,4,7,11,17,21,27,26,33,37,40,41,45,55	2.28	-0.64	1.93	2.27	-1.35	3.68	2.40	4.65	4.95	-2.41	1.08	-1.80	2.66	-9.58	-3.11	2.28	-2.17	**7.1**
3043	1625	1,6,10,16,18,19,22,24,29,36,35,37,40,43,47,49,53,54	0.58	0.40	-2.01	-4.38	-0.30	1.11	-1.91	-5.66	-2.01	-3.15	0.14	0.11	3.78	21.71	2.45	-1.54	-2.17	**7.1**
3044	3080	2,4,3,6,10,16,20,23,27,28,34,35,37,40,41,45,55	2.44	-0.12	-0.12	2.57	2.38	1.97	-1.91	-2.35	5.47	2.59	0.39	-1.80	-1.23	0.96	-0.33	-1.54	-2.17	**7.2**
3045	4184	2,4,7,11,17,18,20,23,27,28,34,35,37,40,41,45,55	2.29	-0.12	0.53	3.76	1.30	1.97	0.25	7.41	6.89	2.21	0.38	-1.80	-0.47	-10.57	-3.11	-1.54	-2.17	**7.2**
3046	35	1,3,7,11,13,12,14,30,33,37,40,43,47,49,53,54	0.15	-1.41	-1.81	6.61	5.77	1.97	2.40	7.69	-4.78	2.45	0.19	0.11	-2.18	-7.27	1.06	-1.54	-2.17	**7.2**
3047	4542	2,4,7,9,10,13,17,19,22,25,29,36,38,43,50,54	-0.59	0.40	-2.82	-6.80	3.85	-0.60	0.96	-1.78	0.20	-2.45	-0.61	-1.80	2.60	17.10	-3.11	-1.54	4.21	**7.2**
3048	718	1,3,7,9,10,13,17,18,20,23,27,28,34,36,39,41,40,42,46,48,52,53,54	2.39	0.92	3.12	4.73	-3.40	-2.32	0.96	1.83	-1.41	8.52	-0.62	0.11	-0.97	-3.98	1.06	-1.54	-2.17	**7.2**
3049	3540	2,4,3,6,9,11,17,18,20,23,26,31,34,36,39,41,43,47,46,48,52,53,54	2.66	1.70	4.23	7.38	-3.71	-3.18	0.96	1.58	0.77	6.47	-0.12	0.11	0.48	-11.89	-0.33	2.28	-2.17	**7.2**
3050	297	1,3,7,11,13,16,20,23,26,31,34,36,39,41,40,42,47,50,54	-0.39	0.66	-2.70	1.08	1.64	-0.60	-1.19	6.78	3.91	7.55	-1.51	-1.80	-3.04	-4.31	1.06	2.28	-2.17	**7.2**
3051	2284	1,6,9,11,17,18,20,23,26,31,34,36,39,41,40,42,46,48,52,53,54	2.48	0.40	4.13	6.16	-4.43	-2.32	0.96	1.98	0.77	6.24	-0.13	0.11	0.22	-11.89	2.45	2.28	-2.17	**7.2**
3052	1245	1,3,7,9,8,14,30,33,37,42,46,48,51	3.17	-2.45	13.42	5.83	-4.44	0.25	6.70	-2.05	-15.56	-0.01	1.95	3.93	8.14	-8.92	1.06	-1.54	-2.17	**7.3**
3053	92	1,3,7,11,13,15,23,27,28,31,30,32,48,52,53,54	0.39	0.14	5.77	-10.50	-4.96	1.11	4.55	4.11	4.27	-0.21	-0.25	-3.71	8.44	-4.31	1.06	-1.54	2.94	**7.3**
3054	4361	2,4,7,9,10,12,14,30,31,34,35,37,40,41,44,55	1.89	-1.67	3.74	3.59	6.51	0.25	0.96	-0.46	-3.34	2.78	0.39	-1.80	2.00	-0.69	-3.11	-1.54	-2.17	**7.3**
3055	1579	1,6,10,15,23,27,28,31,30,32,48,51	1.30	-0.64	7.82	-10.44	-8.29	2.82	3.83	-6.36	2.36	0.17	0.01	-1.80	11.75	0.96	2.45	-1.54	2.94	**7.3**
3056	2743	2,4,3,6,10,13,17,21,28,31,30,32,48,51	1.38	0.40	7.39	-6.88	-7.46	3.68	5.98	-9.80	1.13	-3.22	0.69	-1.80	11.85	2.94	-0.33	-1.54	2.94	**7.3**
3057	465	1,3,7,11,17,19,22,24,29,36,35,37,42,47,50,54	0.15	0.14	-1.51	-2.85	-1.18	1.11	0.96	2.02	1.74	-2.95	-0.08	-1.80	4.08	10.18	1.06	-1.54	-2.17	**7.4**
3058	4737	2,4,7,9,10,16,18,19,22,24,29,36,35,37,42,47,50,54	0.38	0.66	-2.03	-4.23	0.08	0.25	-0.47	-3.34	0.66	-2.63	-0.17	-1.80	3.80	23.02	-3.11	-1.54	-2.17	**7.4**
3059	944	1,3,7,9,10,15,23,27,28,34,35,37,40,41,45,55	2.42	0.40	1.57	-2.08	0.71	2.82	-1.19	3.14	4.89	2.48	0.13	-1.80	1.56	-4.97	1.06	-1.54	-2.17	**7.4**
3060	3036	2,4,3,6,10,16,20,23,26,31,34,36,39,41,40,42,46,48,52,53,54	2.37	0.40	3.36	5.27	-2.90	-3.18	-0.47	-3.38	-0.34	6.56	-0.27	0.11	-0.85	0.96	-0.33	2.28	-2.17	**7.4**
3061	4140	2,4,7,11,17,18,20,23,26,31,34,36,39,41,40,42,46,48,52,53,54	2.22	0.40	4.01	6.46	-3.98	-3.18	1.68	6.39	1.09	6.19	-0.29	0.11	-0.09	-10.57	-3.11	2.28	-2.17	**7.4**
3062	2304	1,6,9,11,17,18,20,23,26,33,37,40,41,45,55	2.52	-0.64	0.92	3.21	-1.97	2.82	0.25	3.00	6.78	0.30	0.81	-1.80	0.54	-11.89	2.45	2.28	-2.17	**7.4**
3063	118	1,3,7,11,13,15,23,27,28,34,36,39,41,43,47,46,48,52,53,54	2.11	0.40	5.14	3.07	-2.89	-2.32	0.96	7.07	-1.25	8.43	-0.75	0.11	1.59	-11.56	1.06	-1.54	-2.17	**7.4**
3064	1438	1,6,10,13,17,19,22,25,29,39,41,40,42,49,53,54	0.23	-0.38	3.86	-8.62	-3.17	-2.32	1.68	-4.99	-3.88	5.07	-1.55	0.11	6.90	15.78	2.45	-1.54	-2.17	**7.5**
3065	2664	2,4,3,6,10,13,17,19,22,24,29,39,41,43,50,54	0.76	0.92	4.27	-5.82	-4.44	-3.18	1.68	-7.57	0.20	5.14	-1.41	-1.80	7.29	15.45	-0.33	-1.54	-2.17	**7.5**
3066	1740	1,6,10,16,18,21,28,34,35,37,40,41,45,55	2.21	-0.64	0.87	0.50	2.04	4.54	-0.47	-4.72	3.32	-0.85	0.83	-1.80	0.95	1.95	2.45	-1.54	-2.17	**7.5**
3067	485	1,3,7,11,17,19,22,24,29,39,44,55	-2.35	-1.41	7.64	-6.13	-5.05	-3.18	-0.47	1.88	0.60	4.59	-1.59	-1.80	7.22	10.18	1.06	-1.54	-2.17	**7.5**
3068	4757	2,4,7,9,10,16,18,19,22,24,29,39,44,55	-2.12	-0.90	7.12	-7.51	-3.79	-4.03	-1.91	-3.47	-0.48	4.91	-1.68	-1.80	6.94	23.02	-3.11	-1.54	-2.17	**7.5**
3069	1605	1,6,10,15,23,27,28,34,36,39,41,43,47,46,48,51	3.02	-0.38	7.18	3.13	-6.22	-0.60	0.25	-3.40	-3.16	8.80	-0.49	2.02	4.90	-6.29	2.45	-1.54	-2.17	**7.5**
3070	2769	2,4,3,6,10,13,17,21,28,34,36,39,41,43,47,46,48,51	3.10	0.66	6.75	6.70	-5.40	0.25	2.40	-6.85	-4.39	5.42	0.19	2.02	5.00	-4.31	-0.33	-1.54	-2.17	**7.5**
3071	1513	1,6,10,13,17,21,28,34,36,39,41,40,42,46,48,51	2.92	-0.64	6.65	5.47	-6.13	1.11	2.40	-6.45	-4.39	5.19	0.17	2.02	4.74	-4.31	2.45	-1.54	-2.17	**7.5**
3072	6	1,3,7,11,13,12,14,30,31,34,35,37,40,43,50,54	0.05	-1.41	-1.72	6.13	7.23	1.97	2.40	5.61	-1.25	2.61	0.01	-1.80	-2.39	-7.27	1.06	-1.54	-2.17	**7.5**
3073	213	1,3,7,11,13,16,18,21,27,26,31,36,39,41,43,47,49,53,54	-0.25	1.96	-1.54	-0.02	1.88	-0.60	-0.47	6.11	-0.56	4.32	-0.88	0.11	-0.38	-3.32	1.06	2.28	-2.17	**7.5**
3074	2071	1,6,9,11,13,16,18,19,22,25,29,36,35,37,42,47,50,54	-0.08	0.40	-1.78	-4.77	1.72	1.11	0.25	-2.69	-0.33	-2.45	-0.28	-1.80	4.09	15.45	2.45	-1.54	-2.17	**7.6**
3075	1404	1,6,10,13,17,19,22,24,29,36,38,43,50,54	-0.02	-0.38	-2.48	-4.93	1.73	0.25	-0.47	-6.27	1.61	-2.82	-0.15	-1.80	2.76	15.45	2.45	-1.54	4.21	**7.6**
3076	4424	2,4,7,9,10,13,17,18,20,23,26,31,34,36,39,41,43,47,46,48,52,53,54	2.50	1.70	3.57	5.34	-3.97	-3.18	0.96	1.43	0.01	6.68	-0.32	0.11	-0.23	-3.98	-3.11	2.28	-2.17	**7.6**
3077	1450	1,6,10,13,17,21,27,26,31,34,35,37,40,41,45,55	2.68	0.40	1.61	0.57	-0.21	4.54	0.25	-4.72	4.74	-2.17	1.18	-1.80	2.30	-4.31	2.45	2.28	-2.17	**7.6**
3078	3056	2,4,3,6,10,16,20,23,26,33,37,40,41,45,55	2.42	-0.64	0.15	2.32	-0.44	1.97	-1.19	-2.35	5.68	0.62	0.68	-1.80	-0.53	0.96	-0.33	2.28	-2.17	**7.6**
3079	4160	2,4,7,11,17,18,20,23,26,33,37,40,41,45,55	2.27	-0.64	0.80	3.51	-1.52	1.97	0.96	7.41	7.10	0.25	0.66	-1.80	0.23	-10.57	-3.11	2.28	-2.17	**7.6**
3080	1057	1,3,7,9,10,16,18,21,27,26,31,34,38,40,42,46,48,51	-0.30	0.66	-1.39	3.66	0.96	1.97	0.25	-0.75	-1.21	-7.98	1.46	2.02	-2.53	3.26	1.06	2.28	4.21	**7.6**

Westar Energy- JEC to East Manhattan
345/230 kV Transmission Line Project
Table F-3: Weighted, Sorted Z-scores for All Routes

		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
3081	2528	2,4,3,6,10,12,14,30,31,34,38,40,42,49,53,54	0.18	-1.41	-2.59	5.12	10.79	0.25	0.25	-1.00	-3.70	2.63	0.13	0.11	-3.42	-2.01	-0.33	-1.54	4.21	**7.7**
3082	900	1,3,7,9,10,15,23,26,31,34,36,39,41,40,42,46,48,52,53,54	2.35	0.92	5.05	0.62	-4.57	-2.32	0.25	2.11	-0.92	6.45	-0.53	0.11	1.94	-4.97	1.06	2.28	-2.17	**7.7**
3083	4924	2,4,7,9,10,16,20,23,27,28,31,30,32,48,52,53,54	0.38	-0.12	3.52	-8.30	-3.77	0.25	3.83	-1.53	4.11	0.11	-0.20	-3.71	5.29	9.52	-3.11	-1.54	2.94	**7.7**
3084	2091	1,6,9,11,13,16,18,19,22,25,29,39,44,55	-2.58	-1.15	7.37	-8.05	-2.15	-3.18	-1.19	-2.83	-1.47	5.09	-1.79	-1.80	7.23	15.45	2.45	-1.54	-2.17	**7.7**
3085	2903	2,4,3,6,10,16,18,19,22,25,29,36,35,37,40,41,44,55	1.64	-0.12	3.60	-7.28	1.01	-0.60	-1.19	-8.76	-2.46	-2.59	0.08	-1.80	8.16	22.04	-0.33	-1.54	-2.17	**7.7**
3086	2693	2,4,3,6,10,13,17,19,22,25,29,39,41,43,47,49,53,54	0.41	1.18	3.96	-7.39	-2.45	-3.18	1.68	-5.39	-3.88	5.30	-1.53	0.11	7.16	15.78	-0.33	-1.54	-2.17	**7.7**
3087	1772	1,6,10,16,20,23,26,30,32,48,52,53,54	0.20	-1.15	3.72	-8.73	-5.25	1.11	3.11	-5.93	5.18	-2.05	0.15	-3.71	5.23	8.20	2.45	2.28	2.94	**7.7**
3088	3927	2,4,7,11,13,16,18,19,22,25,29,36,35,37,42,47,50,54	-0.34	0.40	-1.90	-4.47	2.17	0.25	0.96	1.71	-0.02	-2.51	-0.43	-1.80	3.78	16.77	-3.11	-1.54	-2.17	**7.8**
3089	3666	2,4,3,6,9,11,17,19,22,25,29,39,41,43,50,54	0.17	0.66	4.50	-6.47	-2.57	-3.18	3.11	-2.52	-0.45	5.27	-1.68	-1.80	7.62	9.19	-0.33	-1.54	-2.17	**7.8**
3090	4950	2,4,7,9,10,16,20,23,27,28,34,36,39,41,43,47,46,48,52,53,54	2.10	0.14	2.88	5.27	-1.71	-3.18	0.25	1.43	-1.41	8.75	-0.70	0.11	-1.56	2.28	-3.11	-1.54	-2.17	**7.8**
3091	3609	2,4,3,6,9,11,17,19,22,24,29,36,35,37,40,41,44,55	2.31	0.66	4.74	-3.40	-1.67	-0.60	-0.47	-3.89	0.40	-3.30	0.56	-1.80	9.47	8.86	-0.33	-1.54	-2.17	**7.8**
3092	566	1,3,7,11,17,21,28,31,33,37,40,41,45,55	2.13	-0.64	1.46	2.07	-0.56	4.54	2.40	5.05	3.54	-0.97	0.86	-1.80	2.00	-9.58	1.06	-1.54	-2.17	**7.8**
3093	3414	2,4,3,6,9,11,13,16,18,21,28,34,36,39,41,40,42,46,48,52,53,54	2.39	1.44	4.75	6.08	-1.27	-1.46	1.68	-1.18	-2.79	4.93	0.01	0.11	1.85	-4.64	-0.33	-1.54	-2.17	**7.9**
3094	920	1,3,7,9,10,15,23,26,33,37,40,41,45,55	2.40	-0.12	1.84	-2.33	-2.11	2.82	-0.47	3.14	5.10	0.51	0.41	-1.80	2.26	-4.97	1.06	2.28	-2.17	**7.9**
3095	1433	1,6,10,13,17,19,22,25,29,36,38,43,47,49,53,54	-0.36	-0.12	-2.79	-6.50	3.72	0.25	-0.47	-4.10	-2.47	-2.66	-0.28	0.11	2.62	15.78	2.45	-1.54	4.21	**7.9**
3096	609	1,3,7,9,10,12,14,30,31,34,35,37,40,43,47,49,53,54	0.43	-0.38	-2.16	4.80	7.13	1.97	0.96	2.73	-4.65	2.64	0.14	0.11	-2.51	-0.69	1.06	-1.54	-2.17	**7.9**
3097	2436	1,6,9,11,17,21,27,26,31,34,36,39,41,43,47,46,48,52,53,54	2.50	0.66	5.27	5.32	-4.04	-0.60	2.40	-0.78	-1.37	3.78	0.29	0.11	2.69	-10.90	2.45	2.28	-2.17	**7.9**
3098	3947	2,4,7,11,13,16,18,19,22,25,29,39,44,55	-2.84	-1.15	7.25	-7.75	-1.70	-4.03	-0.47	1.58	-1.16	5.04	-1.94	-1.80	6.92	16.77	-3.11	-1.54	-2.17	**7.9**
3099	1227	1,3,7,9,8,14,30,31,34,36,39,44,55	0.51	-2.45	15.56	-1.37	0.57	-2.32	1.68	-1.48	-12.18	12.66	-0.88	0.11	9.08	-8.92	1.06	-1.54	-2.17	**7.9**
3100	2042	1,6,9,11,13,16,18,19,22,24,29,36,35,37,42,49,53,54	0.43	0.40	-1.47	-2.86	-0.08	-0.60	-1.19	-0.70	-0.90	-3.64	0.27	0.11	4.29	15.12	2.45	-1.54	-2.17	**7.9**
3101	5214	2,5,19,21,28,31,33,37,42,49,53,54	-2.13	0.14	0.87	-9.01	-7.30	1.97	-3.34	0.64	2.77	5.81	-1.97	5.84	4.81	5.24	-0.33	2.28	1.66	**7.9**
3102	2406	1,6,9,11,17,19,22,25,29,36,38,43,50,54	-0.61	-0.64	-2.25	-5.58	3.61	0.25	0.96	-1.22	0.96	-2.69	-0.42	-1.80	3.08	9.19	2.45	-1.54	4.21	**8.0**
3103	4292	2,4,7,11,17,21,27,26,31,34,36,39,41,43,47,46,48,52,53,54	2.24	0.66	5.15	5.62	-3.59	-1.46	3.11	3.62	-1.06	3.73	0.14	0.11	2.38	-9.58	-3.11	2.28	-2.17	**8.1**
3104	2936	2,4,3,6,10,16,18,21,27,26,30,32,48,52,53,54	0.64	0.92	5.12	-9.14	-4.58	1.97	4.55	-9.09	3.04	-4.68	0.61	-3.71	8.40	9.19	-0.33	2.28	2.94	**8.1**
3105	3898	2,4,7,11,13,16,18,19,22,24,29,36,35,37,42,49,53,54	0.18	0.40	-1.59	-2.57	0.36	-1.46	-0.47	3.70	-0.59	-3.69	0.12	0.11	3.98	16.44	-3.11	-1.54	-2.17	**8.1**
3106	1302	1,6,10,13,17,18,20,23,26,31,34,35,37,40,41,45,55	2.67	0.40	0.48	1.81	-0.38	2.82	-1.19	-1.95	6.88	0.49	0.76	-1.80	-0.13	-5.30	2.45	2.28	-2.17	**8.1**
3107	1422	1,6,10,13,17,19,22,25,29,36,35,37,42,46,48,52,53,54	2.29	-0.38	4.15	-1.25	-4.34	-0.60	2.40	-7.65	-4.26	-3.55	0.86	0.11	5.86	15.78	2.45	-1.54	-2.17	**8.2**
3108	4262	2,4,7,11,17,19,22,25,29,36,38,43,50,54	-0.87	-0.64	-2.37	-5.28	4.06	-0.60	1.68	3.18	1.28	-2.74	-0.57	-1.80	2.77	10.51	-3.11	-1.54	4.21	**8.2**
3109	438	1,3,7,11,17,18,20,23,27,28,34,36,39,41,40,42,46,48,52,53,54	2.11	-0.12	3.57	6.25	-3.19	-2.32	1.68	6.78	-0.33	8.23	-0.59	0.11	-0.80	-10.57	1.06	-1.54	-2.17	**8.2**
3110	4550	2,4,7,9,10,13,17,19,22,25,29,39,41,43,50,54	0.01	0.66	3.84	-8.51	-2.83	-3.18	3.11	-2.67	-1.21	5.48	-1.88	-1.80	6.91	17.10	-3.11	-1.54	-2.17	**8.2**
3111	696	1,3,7,9,10,13,17,18,20,23,27,28,31,30,32,48,52,53,54	0.68	0.92	3.77	-8.44	-5.24	1.11	4.55	-1.13	4.11	0.08	-0.11	-3.71	5.91	3.26	1.06	-1.54	2.94	**8.2**
3112	4493	2,4,7,9,10,13,17,19,22,24,29,36,35,37,40,41,44,55	2.16	0.66	4.08	-5.44	-1.93	-0.60	-0.47	-4.05	-0.36	-3.09	0.36	-1.80	8.76	16.77	-3.11	-1.54	-2.17	**8.2**
3113	1859	1,6,8,14,30,31,34,35,37,40,43,47,46,48,51	3.62	-1.67	13.76	6.38	-2.64	1.97	5.26	-6.86	-14.70	0.17	2.09	3.93	8.44	-10.24	2.45	-1.54	-2.17	**8.2**
3114	1063	1,3,7,9,10,16,18,21,27,26,31,34,38,43,47,46,48,51	-0.29	0.40	-1.38	4.06	1.18	1.97	0.25	-0.75	-1.21	-7.78	1.46	2.02	-2.50	3.26	1.06	2.28	4.21	**8.3**
3115	1828	1,6,10,16,20,23,27,28,34,35,37,40,41,45,55	2.27	-1.15	-0.21	1.74	1.87	2.82	-1.91	-1.95	5.47	2.56	0.38	-1.80	-1.45	0.96	2.45	-1.54	-2.17	**8.3**
3116	4986	2,4,7,9,8,14,30,31,34,38,40,42,46,48,52,53,54	2.44	-1.93	10.72	4.20	3.86	-1.46	5.26	-0.27	-12.57	-0.01	1.61	2.02	3.85	-8.92	-3.11	-1.54	4.21	**8.3**
3117	4838	2,4,7,9,10,16,18,21,28,31,33,37,40,41,45,55	2.37	0.40	0.94	0.69	0.70	3.68	0.96	-0.31	2.46	-0.65	0.76	-1.80	1.72	3.26	-3.11	-1.54	-2.17	**8.4**
3118	722	1,3,7,9,10,13,17,18,20,23,27,28,34,36,39,41,43,47,46,48,52,53,54	2.40	1.18	3.13	5.13	-3.18	-2.32	0.96	1.83	-1.41	8.72	-0.62	0.11	-0.93	-3.98	1.06	-1.54	-2.17	**8.4**
3119	9	1,3,7,11,13,12,14,30,31,34,35,37,42,47,50,54	0.08	-1.67	-1.70	6.58	7.48	1.97	2.40	5.61	-1.25	2.92	0.03	-1.80	-2.34	-7.27	1.06	-1.54	-2.17	**8.4**
3120	2288	1,6,9,11,17,18,20,23,26,31,34,36,39,41,43,47,46,48,52,53,54	2.48	0.66	4.14	6.56	-4.21	-2.32	0.96	1.98	0.77	6.44	-0.13	0.11	0.26	-11.89	2.45	2.28	-2.17	**8.4**
3121	3202	2,4,3,6,9,11,13,15,23,26,31,34,35,37,40,41,45,55	2.89	1.70	2.82	0.57	0.40	1.97	-1.19	2.89	7.07	0.23	0.70	-1.80	3.30	-12.87	-0.33	2.28	-2.17	**8.5**
3122	2679	2,4,3,6,10,13,17,19,22,25,29,36,38,40,42,47,50,54	-0.06	1.18	-2.56	-5.82	4.15	1.11	0.25	-6.58	-0.14	-2.06	-0.45	-1.80	3.13	15.78	-0.33	-1.54	4.21	**8.5**
3123	1491	1,6,10,13,17,21,28,31,30,32,48,51	1.20	-0.64	7.30	-7.70	-7.97	4.54	5.98	-9.40	1.13	-3.25	0.68	-1.80	11.62	2.94	2.45	-1.54	2.94	**8.5**
3124	3290	2,4,3,6,9,11,13,16,18,19,22,24,29,36,35,37,40,43,50,54	0.71	1.96	-1.24	-2.23	0.31	0.25	-0.47	-3.18	1.42	-3.15	0.08	-1.80	4.79	15.12	-0.33	-1.54	-2.17	**8.5**
3125	2533	2,4,3,6,10,12,14,30,31,34,38,43,47,49,53,54	0.19	-1.41	-2.57	5.52	11.01	0.25	0.25	-1.00	-3.70	2.82	0.13	0.11	-3.39	-2.01	-0.33	-1.54	4.21	**8.5**
3126	3040	2,4,3,6,10,16,20,23,26,31,34,36,39,41,43,47,46,48,52,53,54	2.38	0.66	3.37	5.67	-2.68	-3.18	-0.47	-3.38	-0.34	6.76	-0.26	0.11	-0.81	0.96	-0.33	2.28	-2.17	**8.6**
3127	4144	2,4,7,11,17,18,20,23,26,31,34,36,39,41,43,47,46,48,52,53,54	2.22	0.66	4.02	6.85	-3.76	-3.18	1.68	6.39	1.09	6.39	-0.28	0.11	-0.05	-10.57	-3.11	2.28	-2.17	**8.6**
3128	856	1,3,7,9,10,13,17,21,28,34,35,37,40,41,45,55	2.33	0.40	1.06	0.66	1.02	4.54	0.96	0.09	3.67	-0.94	0.79	-1.80	1.43	-2.99	1.06	-1.54	-2.17	**8.6**
3129	1784	1,6,10,16,20,23,26,31,34,36,39,41,40,42,46,48,52,53,54	2.20	-0.64	3.27	4.44	-3.41	-2.32	-0.47	-2.98	-0.34	6.53	-0.28	0.11	-1.07	0.96	2.45	2.28	-2.17	**8.6**
3130	1412	1,6,10,13,17,19,22,24,29,39,41,43,50,54	0.58	-0.12	4.18	-6.64	-4.94	-2.32	1.68	-7.17	0.20	5.11	-1.42	-1.80	7.07	15.45	2.45	-1.54	-2.17	**8.6**
3131	2868	2,4,3,6,10,15,23,27,28,34,38,41,45,55	2.18	-0.12	1.16	-1.37	4.59	1.11	-1.91	-0.60	5.84	2.66	0.12	-1.80	0.68	-6.29	-0.33	-1.54	4.21	**8.6**
3132	1517	1,6,10,13,17,21,28,34,36,39,41,43,47,46,48,51	2.92	-0.38	6.67	5.87	-5.91	1.11	2.40	-6.45	-4.39	5.39	0.17	2.02	4.78	-4.31	2.45	-1.54	-2.17	**8.6**
3133	3502	2,4,3,6,9,11,13,16,20,23,27,28,34,36,39,41,40,42,46,48,52,53,54	2.45	0.92	3.67	7.32	-1.45	-3.18	0.25	1.58	-0.64	8.34	-0.43	0.11	-0.55	-5.63	-0.33	-1.54	-2.17	**8.7**
3134	1008	1,3,7,9,10,16,18,19,22,25,29,36,35,37,40,43,50,54	-0.23	0.66	-2.42	-7.19	1.25	1.11	0.25	-2.85	-1.09	-2.55	-0.52	-1.80	3.41	23.35	1.06	-1.54	-2.17	**8.7**
3135	209	1,3,7,11,13,16,18,21,27,26,31,34,36,39,41,40,42,47,50,54	-0.12	1.70	-1.39	-0.16	1.81	1.11	0.25	4.02	1.76	4.89	-1.07	-1.80	-0.10	-3.32	1.06	2.28	-2.17	**8.7**

Table F-3: Weighted, Sorted Z-scores for All Routes

		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
3136	741	1,3,7,9,10,13,17,19,22,24,29,36,35,37,40,43,47,49,53,54	0.70	1.96	-1.82	-4.23	-1.31	1.11	-0.47	-0.85	-1.66	-3.23	0.11	0.11	4.25	16.77	1.06	-1.54	-2.17	**8.8**
3137	1804	1,6,10,16,20,23,26,33,37,40,41,45,55	2.25	-1.67	0.07	1.50	-0.94	2.82	-1.19	-1.95	5.68	0.59	0.66	-1.80	-0.75	0.96	2.45	2.28	-2.17	**8.8**
3138	3319	2,4,3,6,9,11,13,16,18,19,22,25,29,36,35,37,40,43,47,49,53,54	0.36	2.22	-1.55	-3.81	2.30	0.25	-0.47	-1.01	-2.66	-2.99	-0.04	0.11	4.66	15.45	-0.33	-1.54	-2.17	**8.8**
3139	904	1,3,7,9,10,15,23,26,31,34,36,39,41,43,47,46,48,52,53,54	2.36	1.18	5.06	1.02	-4.35	-2.32	0.25	2.11	-0.92	6.65	-0.53	0.11	1.97	-4.97	1.06	2.28	-2.17	**8.8**
3140	1276	1,6,10,12,14,30,31,34,38,40,42,49,53,54	0.00	-2.45	-2.68	4.30	10.28	1.11	0.25	-0.60	-3.70	2.60	0.11	0.11	-3.65	-2.01	2.45	-1.54	4.21	**8.8**
3141	2650	2,4,3,6,10,13,17,19,22,24,29,36,38,40,42,49,53,54	0.45	1.18	-2.25	-3.91	2.35	-0.60	-1.19	-4.59	-0.71	-3.25	0.10	0.11	3.34	15.45	-0.33	-1.54	4.21	**8.8**
3142	1651	1,6,10,16,18,19,22,25,29,36,35,37,40,41,44,55	1.46	-1.15	3.51	-8.10	0.51	0.25	-1.19	-8.36	-2.46	-2.62	0.07	-1.80	7.94	22.04	2.45	-1.54	-2.17	**8.8**
3143	2787	2,4,3,6,10,15,23,26,30,32,48,51	1.37	0.40	8.23	-9.75	-8.81	1.97	3.83	-6.76	3.77	-2.02	0.28	-1.80	12.28	0.96	-0.33	2.28	2.94	**8.8**
3144	3153	2,4,3,6,9,11,13,12,14,30,31,34,35,37,40,41,44,55	2.24	-1.15	4.54	6.04	7.00	0.25	0.96	-0.31	-2.58	2.58	0.67	-1.80	3.04	-8.59	-0.33	-1.54	-2.17	**8.8**
3145	3392	2,4,3,6,9,11,13,16,18,21,28,31,30,32,48,52,53,54	0.68	1.44	5.40	-7.09	-3.12	1.97	5.26	-4.14	2.73	-3.51	0.52	-3.71	8.74	2.61	-0.33	-1.54	2.94	**8.8**
3146	1441	1,6,10,13,17,19,22,25,29,39,41,43,47,49,53,54	0.24	0.14	3.87	-8.22	-2.95	-2.32	1.68	-4.99	-3.88	5.27	-1.55	0.11	6.93	15.78	2.45	-1.54	-2.17	**8.8**
3147	94	1,3,7,11,13,15,23,27,28,31,33,37,40,41,45,55	2.43	0.14	2.12	-0.27	-0.65	2.82	0.25	8.09	4.76	2.44	0.26	-1.80	2.46	-11.56	1.06	-1.54	-2.17	**8.8**
3148	4709	2,4,7,9,10,15,23,27,28,34,36,39,41,40,42,46,48,51	3.09	0.40	7.28	3.03	-5.99	-1.46	0.96	1.00	-2.82	8.55	-0.59	2.02	5.24	-4.97	-3.11	-1.54	-2.17	**8.9**
3149	2689	2,4,3,6,10,13,17,19,22,25,29,39,41,40,42,47,50,54	0.54	0.92	4.10	-7.53	-2.52	-1.46	2.40	-7.48	-1.56	5.86	-1.72	-1.80	7.44	15.78	-0.33	-1.54	-2.17	**8.9**
3150	2948	2,4,3,6,10,16,18,21,27,26,31,34,36,39,41,40,42,46,48,52,53,54	2.64	1.44	4.67	4.03	-2.73	-1.46	0.96	-6.14	-2.48	3.90	0.18	0.11	2.09	1.95	-0.33	2.28	-2.17	**8.9**
3151	5126	2,5,19,18,21,28,31,33,37,42,49,53,54	-2.01	0.66	0.96	-9.01	-7.30	1.97	-3.34	0.64	2.77	5.81	-1.96	5.84	5.07	5.24	-0.33	2.28	1.66	**8.9**
3152	2414	1,6,9,11,17,19,22,25,29,39,41,43,50,54	-0.01	-0.38	4.41	-7.29	-3.07	-2.32	3.11	-2.12	-0.45	5.24	-1.69	-1.80	7.39	9.19	2.45	-1.54	-2.17	**9.0**
3153	4992	2,4,7,9,8,14,30,31,34,38,43,47,46,48,52,53,54	2.45	-2.19	10.74	4.59	4.08	-1.46	5.26	-0.27	-12.57	0.18	1.61	2.02	3.89	-8.92	-3.11	-1.54	4.21	**9.0**
3154	2357	1,6,9,11,17,19,22,24,29,36,35,37,40,41,44,55	2.13	-0.38	4.65	-4.22	-2.17	0.25	-0.47	-3.49	0.40	-3.33	0.55	-1.80	9.24	8.86	2.45	-1.54	-2.17	**9.0**
3155	3418	2,4,3,6,9,11,13,16,18,21,28,34,36,39,41,43,47,46,48,52,53,54	2.40	1.70	4.76	6.48	-1.06	-1.46	1.68	-1.18	-2.79	5.13	0.02	0.11	1.89	-4.64	-0.33	-1.54	-2.17	**9.0**
3156	2162	1,6,9,11,13,16,18,21,28,34,36,39,41,40,42,46,48,52,53,54	2.22	0.40	4.66	5.26	-1.78	-0.60	1.68	-0.78	-2.79	4.90	0.00	0.11	1.63	-4.64	2.45	-1.54	-2.17	**9.0**
3157	3152	2,4,3,6,8,14,32,48,52,53,54	1.82	-1.67	18.29	-7.02	-4.60	-0.60	8.85	-8.93	-8.81	3.25	0.19	-1.80	13.97	-4.97	-0.33	-1.54	2.94	**9.0**
3158	635	1,3,7,9,10,12,14,30,33,37,40,41,44,55	1.76	-2.19	3.57	3.14	4.48	1.11	1.68	-0.06	-4.55	2.86	0.37	-1.80	2.00	-0.69	1.06	-1.54	-2.17	**9.0**
3159	4390	2,4,7,9,10,12,14,30,31,34,38,43,50,54	-0.22	-1.93	-2.70	4.40	10.63	0.25	1.68	1.72	-1.03	3.00	-0.21	-1.80	-3.63	-0.69	-3.11	-1.54	4.21	**9.0**
3160	2512	2,4,3,6,10,12,14,30,31,34,35,37,42,46,48,52,53,54	2.85	-1.41	4.36	10.77	2.94	-0.60	3.11	-4.56	-5.49	1.93	1.27	0.11	-0.15	-2.01	-0.33	-1.54	-2.17	**9.1**
3161	2968	2,4,3,6,10,16,18,21,27,26,33,37,40,41,45,55	2.69	0.40	1.46	1.08	-0.27	3.68	0.25	-5.11	3.53	-2.04	1.12	-1.80	2.42	1.95	-0.33	2.28	-2.17	**9.1**
3162	4270	2,4,7,11,17,19,22,25,29,39,41,43,50,54	-0.27	-0.38	4.29	-7.00	-2.62	-3.18	3.83	2.28	-0.14	5.19	-1.84	-1.80	7.08	10.51	-3.11	-1.54	-2.17	**9.1**
3163	416	1,3,7,11,17,18,20,23,27,28,31,30,32,48,52,53,54	0.40	-0.12	4.22	-6.93	-5.03	1.11	5.26	3.83	5.19	-0.21	-0.08	-3.71	6.09	-3.32	1.06	-1.54	2.94	**9.2**
3164	4213	2,4,7,11,17,19,22,24,29,36,35,37,40,41,44,55	1.88	-0.38	4.53	-3.92	-1.72	-0.60	0.25	0.91	0.72	-3.38	0.40	-1.80	8.93	10.18	-3.11	-1.54	-2.17	**9.2**
3165	3652	2,4,3,6,9,11,17,19,22,25,29,36,38,40,42,49,53,54	-0.14	0.92	-2.02	-4.56	4.22	-0.60	0.25	0.46	-1.36	-3.12	-0.17	0.11	3.66	9.19	-0.33	-1.54	4.21	**9.2**
3166	4018	2,4,7,11,13,16,18,21,28,34,36,39,41,40,42,46,48,52,53,54	1.96	0.40	4.54	5.56	-1.33	-1.46	2.40	3.62	-2.47	4.85	-0.15	0.11	1.32	-3.32	-3.11	-1.54	-2.17	**9.2**
3167	4926	2,4,7,9,10,16,20,23,27,28,31,33,37,40,41,45,55	2.43	-0.12	-0.14	1.93	0.53	1.97	-0.47	2.45	4.60	2.76	0.32	-1.80	-0.69	2.28	-3.11	-1.54	-2.17	**9.2**
3168	2617	2,4,3,6,10,13,17,18,20,23,27,28,34,36,39,41,40,42,46,48,51	3.40	0.92	5.84	7.54	-5.79	-1.46	0.96	-4.09	-2.24	8.63	-0.24	2.02	3.07	-5.30	-0.33	-1.54	-2.17	**9.2**
3169	1684	1,6,10,16,18,21,27,26,30,32,48,52,53,54	0.46	-0.12	5.03	-9.97	-5.08	2.82	4.55	-8.69	3.04	-4.71	0.59	-3.71	8.17	9.19	2.45	2.28	2.94	**9.2**
3170	2660	2,4,3,6,10,13,17,19,22,24,29,39,41,40,42,49,53,54	1.05	0.92	4.41	-5.63	-4.33	-3.18	0.96	-5.49	-2.13	4.68	-1.17	0.11	7.65	15.45	-0.33	-1.54	-2.17	**9.3**
3171	4398	2,4,7,9,10,12,14,30,33,37,42,46,48,52,53,54	2.55	-1.93	4.14	10.13	1.10	-0.60	4.55	0.25	-6.36	1.95	1.11	0.11	-0.19	-0.69	-3.11	-1.54	-2.17	**9.3**
3172	442	1,3,7,11,17,18,20,23,27,28,34,36,39,41,43,47,46,48,52,53,54	2.12	0.14	3.58	6.65	-2.97	-2.32	1.68	6.78	-0.33	8.43	-0.58	0.11	-0.76	-10.57	1.06	-1.54	-2.17	**9.3**
3173	3126	2,4,3,6,8,14,30,31,34,36,39,41,43,50,54	3.35	-0.64	12.64	0.46	1.39	-2.32	4.55	-5.98	-11.51	12.92	-0.66	0.11	9.32	-10.24	-0.33	-1.54	-2.17	**9.4**
3174	3293	2,4,3,6,9,11,13,16,18,19,22,24,29,36,35,37,42,47,50,54	0.74	1.70	-1.23	-1.78	0.56	0.25	-0.47	-3.18	1.42	-2.84	0.10	-1.80	4.84	15.12	-0.33	-1.54	-2.17	**9.4**
3175	305	1,3,7,11,13,16,20,23,26,31,34,38,40,42,46,48,51	-0.64	-0.38	-2.10	6.82	1.22	0.25	-0.47	6.97	2.01	-5.61	1.12	2.02	-4.97	-4.31	1.06	2.28	4.21	**9.5**
3176	3313	2,4,3,6,9,11,13,16,18,19,22,24,29,39,44,55	-1.76	0.14	7.92	-5.06	-3.31	-4.03	-1.91	-3.32	0.28	4.70	-1.41	-1.80	7.98	15.12	-0.33	-1.54	-2.17	**9.5**
3177	576	1,3,7,11,17,21,28,34,35,37,40,41,45,55	2.05	-0.64	1.51	2.18	1.23	4.54	1.68	5.05	4.74	-1.23	0.83	-1.80	1.60	-9.58	1.06	-1.54	-2.17	**9.5**
3178	4536	2,4,7,9,10,13,17,19,22,25,29,36,38,40,42,49,53,54	-0.30	0.92	-2.68	-6.60	3.95	-0.60	0.25	0.31	-2.13	-2.91	-0.37	0.11	2.96	17.10	-3.11	-1.54	4.21	**9.6**
3179	1950	1,6,9,11,13,15,23,26,31,34,35,37,40,41,45,55	2.71	0.66	2.73	-0.25	-0.10	2.82	-1.19	3.29	7.07	0.20	0.69	-1.80	3.08	-12.87	2.45	2.28	-2.17	**9.6**
3180	1011	1,3,7,9,10,16,18,19,22,25,29,36,35,37,42,47,50,54	-0.19	0.40	-2.41	-6.73	1.50	1.11	0.25	-2.85	-1.09	-2.25	-0.50	-1.80	3.46	23.35	1.06	-1.54	-2.17	**9.6**
3181	5224	2,5,19,21,28,34,35,37,42,49,53,54	-2.22	0.14	0.91	-8.90	-5.52	1.97	-4.06	0.64	3.97	5.56	-2.00	5.84	4.41	5.24	-0.33	2.28	1.66	**9.6**
3182	1427	1,6,10,13,17,19,22,25,29,36,38,40,42,47,50,54	-0.24	0.14	-2.64	-6.64	3.65	1.97	0.25	-6.18	-0.14	-2.09	-0.47	-1.80	2.91	15.78	2.45	-1.54	4.21	**9.6**
3183	3662	2,4,3,6,9,11,17,19,22,25,29,39,41,40,42,49,53,54	0.46	0.66	4.64	-6.28	-2.46	-3.18	2.40	-0.44	-2.78	4.81	-1.44	0.11	7.97	9.19	-0.33	-1.54	-2.17	**9.6**
3184	2922	2,4,3,6,10,16,18,19,22,25,29,36,38,43,50,54	-0.47	-0.12	-2.84	-6.47	5.13	-0.60	-0.47	-6.58	-0.14	-2.37	-0.53	-1.80	2.53	22.04	-0.33	-1.54	4.21	**9.7**
3185	2799	2,4,3,6,10,15,23,26,31,34,36,39,41,40,42,46,48,51	3.36	0.92	7.78	3.42	-6.97	-1.46	0.25	-3.80	-1.75	6.57	-0.15	2.02	5.98	-6.29	-0.33	2.28	-2.17	**9.7**
3186	2038	1,6,9,11,13,16,18,19,22,24,29,36,35,37,40,43,50,54	0.53	0.92	-1.33	-3.06	-0.19	1.11	-0.47	-2.78	1.42	-3.18	0.07	-1.80	4.57	15.12	2.45	-1.54	-2.17	**9.7**
3187	1281	1,6,10,12,14,30,31,34,38,43,47,49,53,54	0.01	-2.45	-2.66	4.69	10.50	1.11	0.25	-0.60	-3.70	2.79	0.12	0.11	-3.61	-2.01	2.45	-1.54	4.21	**9.7**
3188	3737	2,4,3,6,9,11,17,21,28,34,36,39,41,40,42,46,48,51	3.15	0.40	7.43	7.81	-5.41	0.25	3.11	-1.89	-3.28	4.93	0.28	2.02	5.82	-10.90	-0.33	-1.54	-2.17	**9.7**
3189	5210	2,5,19,21,28,31,33,37,40,43,50,54	-2.03	0.66	1.01	-9.21	-7.41	3.68	-2.62	-1.44	5.09	6.27	-2.18	3.93	5.08	5.24	-0.33	2.28	1.66	**9.7**
3190	2655	2,4,3,6,10,13,17,19,22,24,29,36,38,43,47,49,53,54	0.46	1.18	-2.23	-3.51	2.56	-0.60	-1.19	-4.59	-0.71	-3.05	0.10	0.11	3.37	15.45	-0.33	-1.54	4.21	**9.7**

Table F-3: Weighted, Sorted Z-scores for All Routes

		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
3191	1788	1,6,10,16,20,23,26,31,34,36,39,41,43,47,46,48,52,53,54	2.20	-0.38	3.29	4.84	-3.19	-2.32	-0.47	-2.98	-0.34	6.73	-0.28	0.11	-1.04	0.96	2.45	2.28	-2.17	**9.7**
3192	1031	1,3,7,9,10,16,18,19,22,25,29,39,44,55	-2.70	-1.15	6.74	-10.01	-2.37	-3.18	-1.19	-2.98	-2.23	5.30	-2.01	-1.80	6.59	23.35	1.06	-1.54	-2.17	**9.7**
3193	461	1,3,7,11,17,19,22,24,29,36,35,37,40,43,47,49,53,54	0.42	0.92	-1.37	-2.71	-1.11	1.11	0.25	4.10	-0.59	-3.52	0.14	0.11	4.43	10.18	1.06	-1.54	-2.17	**9.7**
3194	3480	2,4,3,6,9,11,13,16,20,23,27,28,31,30,32,48,52,53,54	0.74	0.92	4.32	-5.85	-3.29	0.25	3.83	-1.37	4.88	-0.10	0.08	-3.71	6.33	1.62	-0.33	-1.54	2.94	**9.7**
3195	4733	2,4,7,9,10,16,18,19,22,24,29,36,35,37,40,43,47,49,53,54	0.65	1.44	-1.89	-4.09	0.15	0.25	-1.19	-1.25	-1.66	-3.20	0.05	0.11	4.14	23.02	-3.11	-1.54	-2.17	**9.7**
3196	1616	1,6,10,15,23,27,28,34,38,41,45,55	2.01	-1.15	1.07	-2.19	4.08	1.97	-1.91	-0.20	5.84	2.63	0.10	-1.80	0.45	-6.29	2.45	-1.54	4.21	**9.7**
3197	2780	2,4,3,6,10,13,17,21,28,34,38,41,45,55	2.09	-0.12	0.65	1.38	4.90	2.82	0.25	-3.64	4.62	-0.75	0.78	-1.80	0.55	-4.31	-0.33	-1.54	4.21	**9.7**
3198	698	1,3,7,9,10,13,17,18,20,23,27,28,31,33,37,40,41,45,55	2.72	0.92	0.11	1.79	-0.93	2.82	0.25	2.85	4.60	2.73	0.40	-1.80	-0.06	-3.98	1.06	-1.54	-2.17	**9.8**
3199	3806	2,4,7,11,13,15,23,26,31,34,35,37,40,41,45,55	2.45	0.66	2.61	0.04	0.35	1.97	-0.47	7.69	7.38	0.15	0.54	-1.80	2.77	-11.56	-3.11	2.28	-2.17	**9.8**
3200	3628	2,4,3,6,9,11,17,19,22,24,29,36,38,43,50,54	0.21	0.66	-1.70	-2.59	2.45	-0.60	0.25	-1.71	2.72	-3.08	-0.04	-1.80	3.83	8.86	-0.33	-1.54	4.21	**9.8**
3201	3674	2,4,3,6,9,11,17,21,27,26,31,34,35,37,40,41,45,55	2.91	1.44	2.39	2.91	0.50	3.68	0.96	-0.16	5.84	-2.43	1.30	-1.80	3.38	-10.90	-0.33	2.28	-2.17	**9.8**
3202	3506	2,4,3,6,9,11,13,16,20,23,27,28,34,36,39,41,43,47,46,48,52,53,54	2.46	1.18	3.68	7.72	-1.23	-3.18	0.25	1.58	-0.64	8.54	-0.43	0.11	-0.52	-5.63	-0.33	-1.54	-2.17	**9.9**
3203	2250	1,6,9,11,13,16,20,23,27,28,34,36,39,41,40,42,46,48,52,53,54	2.28	-0.12	3.58	6.50	-1.95	-2.32	0.25	1.98	-0.64	8.31	-0.45	0.11	-0.78	-5.63	2.45	-1.54	-2.17	**9.9**
3204	3894	2,4,7,11,13,16,18,19,22,24,29,36,35,37,40,43,50,54	0.28	0.92	-1.45	-2.76	0.26	0.25	0.25	1.62	1.74	-3.23	-0.08	-1.80	4.26	16.44	-3.11	-1.54	-2.17	**9.9**
3205	4687	2,4,7,9,10,15,23,27,28,31,30,32,48,51	1.37	0.40	7.94	-10.15	-7.84	1.97	4.55	-1.95	2.70	0.11	-0.08	-1.80	12.12	2.28	-3.11	-1.54	2.94	**9.9**
3206	2067	1,6,9,11,13,16,18,19,22,25,29,36,35,37,40,43,47,49,53,54	0.19	1.18	-1.64	-4.63	1.80	1.11	-0.47	-0.61	-2.66	-3.02	-0.06	0.11	4.43	15.45	2.45	-1.54	-2.17	**9.9**
3207	48	1,3,7,11,13,15,23,26,30,32,48,52,53,54	0.28	0.14	6.10	-10.64	-5.98	1.11	4.55	4.11	5.68	-2.42	0.01	-3.71	8.75	-4.31	1.06	2.28	2.94	**9.9**
3208	982	1,3,7,9,10,16,18,19,22,24,29,36,35,37,42,49,53,54	0.32	0.40	-2.10	-4.83	-0.30	-0.60	-1.19	-0.85	-1.66	-3.43	0.05	0.11	3.66	23.02	1.06	-1.54	-2.17	**9.9**
3209	1398	1,6,10,13,17,19,22,24,29,36,38,40,42,49,53,54	0.27	0.14	-2.33	-4.73	1.84	0.25	-1.19	-4.19	-0.71	-3.28	0.08	0.11	3.11	15.45	2.45	-1.54	4.21	**10.0**
3210	1535	1,6,10,15,23,26,30,32,48,51	1.19	-0.64	8.14	-10.58	-9.31	2.82	3.83	-6.36	3.77	-2.05	0.27	-1.80	12.06	0.96	2.45	2.28	2.94	**10.0**
3211	2644	2,4,3,6,10,13,17,19,22,24,29,36,35,37,42,46,48,52,53,54	3.12	0.92	4.70	1.74	-5.50	-1.46	1.68	-8.14	-2.51	-3.94	1.24	0.11	6.61	15.45	-0.33	-1.54	-2.17	**10.0**
3212	1901	1,6,9,11,13,12,14,30,31,34,35,37,40,41,44,55	2.07	-2.19	4.46	5.21	6.49	1.11	0.96	0.09	-2.58	2.55	0.65	-1.80	2.81	-8.59	2.45	-1.54	-2.17	**10.0**
3213	2140	1,6,9,11,13,16,18,21,28,31,30,32,48,52,53,54	0.50	0.40	5.31	-7.92	-3.62	2.82	5.26	-3.74	2.73	-3.54	0.51	-3.71	8.51	2.61	2.45	-1.54	2.94	**10.0**
3214	4546	2,4,7,9,10,13,17,19,22,25,29,39,41,40,42,49,53,54	0.31	0.66	3.98	-8.32	-2.72	-3.18	2.40	-0.59	-3.54	5.02	-1.64	0.11	7.26	17.10	-3.11	-1.54	-2.17	**10.0**
3215	4848	2,4,7,9,10,16,18,21,28,34,35,37,40,41,45,55	2.28	0.40	0.99	0.80	2.49	3.68	0.25	-0.31	3.67	-0.91	0.74	-1.80	1.32	3.26	-3.11	-1.54	-2.17	**10.0**
3216	4106	2,4,7,11,13,16,20,23,27,28,34,36,39,41,40,42,46,48,52,53,54	2.02	-0.12	3.46	6.79	-1.50	-3.18	0.96	6.39	-0.33	8.26	-0.60	0.11	-1.09	-4.31	-3.11	-1.54	-2.17	**10.0**
3217	3657	2,4,3,6,9,11,17,19,22,25,29,36,38,43,47,49,53,54	-0.14	0.92	-2.01	-4.16	4.44	-0.60	0.25	0.46	-1.36	-2.92	-0.17	0.11	3.70	9.19	-0.33	-1.54	4.21	**10.1**
3218	4713	2,4,7,9,10,15,23,27,28,34,36,39,41,43,47,46,48,51	3.09	0.66	7.30	3.43	-5.78	-1.46	0.96	1.00	-2.82	8.75	-0.58	2.02	5.27	-4.97	-3.11	-1.54	-2.17	**10.1**
3219	4621	2,4,7,9,10,13,17,21,28,34,36,39,41,40,42,46,48,51	2.99	0.40	6.77	5.77	-5.68	0.25	3.11	-2.04	-4.04	5.14	0.08	2.02	5.11	-2.99	-3.11	-1.54	-2.17	**10.1**
3220	1437	1,6,10,13,17,19,22,25,29,39,41,40,42,47,50,54	0.36	-0.12	4.02	-8.36	-3.03	-0.60	2.40	-7.08	-1.56	5.84	-1.73	-1.80	7.22	15.78	2.45	-1.54	-2.17	**10.1**
3221	2952	2,4,3,6,10,16,18,21,27,26,31,34,36,39,41,43,47,46,48,52,53,54	2.64	1.70	4.68	4.43	-2.51	-1.46	0.96	-6.14	-2.48	4.10	0.18	0.11	2.13	1.95	-0.33	2.28	-2.17	**10.1**
3222	1696	1,6,10,16,18,21,27,26,31,34,36,39,41,40,42,46,48,52,53,54	2.46	0.40	4.58	3.21	-3.24	-0.60	0.96	-5.74	-2.48	3.87	0.16	0.11	1.87	1.95	2.45	2.28	-2.17	**10.1**
3223	311	1,3,7,11,13,16,20,23,26,31,34,38,43,47,46,48,51	-0.63	-0.64	-2.09	7.22	1.44	0.25	-0.47	6.97	2.01	-5.41	1.13	2.02	-4.94	-4.31	1.06	2.28	4.21	**10.1**
3224	3923	2,4,7,11,13,16,18,19,22,25,29,36,35,37,40,43,47,49,53,54	-0.07	1.18	-1.76	-4.33	2.25	0.25	0.25	3.80	-2.34	-3.08	-0.21	0.11	4.12	16.77	-3.11	-1.54	-2.17	**10.1**
3225	2166	1,6,9,11,13,16,18,21,28,34,36,39,41,43,47,46,48,52,53,54	2.22	0.66	4.67	5.66	-1.56	-0.60	1.68	-0.78	-2.79	5.10	0.00	0.11	1.67	-4.64	2.45	-1.54	-2.17	**10.1**
3226	1900	1,6,8,14,32,48,52,53,54	1.64	-2.71	18.20	-7.85	-5.10	0.25	8.85	-8.53	-8.81	3.22	0.18	-1.80	13.74	-4.97	2.45	-1.54	2.94	**10.2**
3227	3757	2,4,7,11,13,12,14,30,31,34,35,37,40,41,44,55	1.81	-2.19	4.34	5.51	6.94	0.25	1.68	4.50	-2.27	2.49	0.50	-1.80	2.50	-7.27	-3.11	-1.54	-2.17	**10.2**
3228	3996	2,4,7,11,13,16,18,21,28,31,30,32,48,52,53,54	0.25	0.40	5.19	-7.62	-3.17	1.97	5.98	0.67	3.05	-3.59	0.36	-3.71	8.20	3.92	-3.11	-1.54	2.94	**10.2**
3229	4512	2,4,7,9,10,13,17,19,22,24,29,36,38,43,50,54	0.06	0.66	-2.36	-4.63	2.18	-0.60	0.25	-1.87	1.95	-2.87	-0.24	-1.80	3.13	16.77	-3.11	-1.54	4.21	**10.2**
3230	4558	2,4,7,9,10,13,17,21,27,26,31,34,35,37,40,41,45,55	2.76	1.44	1.73	0.87	0.23	3.68	0.96	-0.31	5.08	-2.22	1.09	-1.80	2.67	-2.99	-3.11	2.28	-2.17	**10.2**
3231	1260	1,6,10,12,14,30,31,34,35,37,42,46,48,52,53,54	2.67	-2.45	4.27	9.95	2.44	0.25	3.11	-4.16	-5.49	1.90	1.26	0.11	-0.38	-2.01	2.45	-1.54	-2.17	**10.2**
3232	2595	2,4,3,6,10,13,17,18,20,23,27,28,31,30,32,48,51	1.69	0.92	6.50	-5.64	-7.64	1.97	4.55	-7.04	3.28	0.19	0.27	-1.80	9.95	1.95	-0.33	-1.54	2.94	**10.2**
3233	1716	1,6,10,16,18,21,27,26,33,37,40,41,45,55	2.51	-0.64	1.38	0.26	-0.77	4.54	0.25	-4.72	3.53	-2.07	1.11	-1.80	2.19	1.95	2.45	2.28	-2.17	**10.3**
3234	2527	2,4,3,6,10,12,14,30,31,34,38,40,42,47,50,54	0.31	-1.15	-2.43	5.38	10.93	1.97	0.96	-3.09	-1.37	3.39	-0.06	-1.80	-3.10	-2.01	-0.33	-1.54	4.21	**10.3**
3235	2538	2,4,3,6,10,12,14,30,33,37,40,43,47,46,48,52,53,54	3.05	-1.15	4.41	11.06	1.37	1.11	3.83	-4.56	-6.70	2.23	1.25	0.11	0.33	-2.01	-0.33	-1.54	-2.17	**10.3**
3236	4967	2,4,7,9,8,14,30,31,34,35,37,40,43,47,46,48,51	3.70	-1.15	13.88	6.68	-2.19	1.11	5.98	-2.45	-14.36	0.11	2.00	3.93	8.81	-8.92	-3.11	-1.54	-2.17	**10.3**
3237	3526	2,4,3,6,9,11,17,18,20,23,26,31,34,35,37,40,41,45,55	2.90	1.44	1.26	4.15	0.33	1.97	-0.47	2.60	7.99	0.23	0.88	-1.80	0.95	-11.89	-0.33	2.28	-2.17	**10.3**
3238	4880	2,4,7,9,10,16,20,23,26,30,32,48,52,53,54	0.28	-0.12	3.84	-8.43	-4.80	0.25	3.83	-1.53	5.53	-2.11	0.06	-3.71	5.60	9.52	-3.11	2.28	2.94	**10.3**
3239	2400	1,6,9,11,17,19,22,25,29,36,38,40,42,49,53,54	-0.32	-0.12	-2.11	-5.38	3.71	0.25	0.25	0.86	-1.36	-3.15	-0.18	0.11	3.44	9.19	2.45	-1.54	4.21	**10.3**
3240	4022	2,4,7,11,13,16,18,21,28,34,36,39,41,43,47,46,48,52,53,54	1.97	0.66	4.55	5.95	-1.11	-1.46	2.40	3.62	-2.47	5.04	-0.15	0.11	1.36	-3.32	-3.11	-1.54	-2.17	**10.3**
3241	3646	2,4,3,6,9,11,17,19,22,25,29,36,35,37,42,46,48,52,53,54	2.52	0.66	4.93	1.09	-3.63	-1.46	3.11	-3.09	-3.15	-3.81	0.97	0.11	6.94	9.19	-0.33	-1.54	-2.17	**10.3**
3242	172	1,3,7,11,13,16,18,19,22,25,29,36,35,37,42,49,53,54	-0.40	0.14	-1.97	-5.07	1.79	-0.60	0.25	4.20	-2.34	-3.30	-0.21	0.11	3.64	16.77	1.06	-1.54	-2.17	**10.3**
3243	800	1,3,7,9,10,13,17,21,27,26,30,32,48,52,53,54	0.59	0.92	5.22	-9.81	-6.10	2.82	5.98	-3.89	3.38	-4.80	0.56	-3.71	8.65	4.25	1.06	2.28	2.94	**10.4**
3244	2621	2,4,3,6,10,13,17,18,20,23,27,28,34,36,39,41,43,47,46,48,51	3.41	1.18	5.86	7.93	-5.57	-1.46	0.96	-4.09	-2.24	8.83	-0.23	2.02	3.11	-5.30	-0.33	-1.54	-2.17	**10.4**
3245	1365	1,6,10,13,17,18,20,23,27,28,34,36,39,41,40,42,46,48,51	3.23	-0.12	5.76	6.71	-6.30	-0.60	0.96	-3.69	-2.24	8.60	-0.25	2.02	2.85	-5.30	2.45	-1.54	-2.17	**10.4**

Table F-3: Weighted, Sorted Z-scores for All Routes

Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
3246	3394	2,4,3,6,9,11,13,16,18,21,28,31,33,37,40,41,45,55	2.72	1.44	1.74	3.14	1.19	3.68	0.96	-0.16	3.22	-0.86	1.04	-1.80	2.76	-4.64	-0.33	-1.54	-2.17	**10.4**
3247	1408	1,6,10,13,17,19,22,24,29,39,41,40,42,49,53,54	0.88	-0.12	4.33	-6.45	-4.83	-2.32	0.96	-5.09	-2.13	4.65	-1.19	0.11	7.42	15.45	2.45	-1.54	-2.17	**10.4**
3248	4541	2,4,7,9,10,13,17,19,22,25,29,36,38,43,47,49,53,54	-0.29	0.92	-2.67	-6.21	4.17	-0.60	0.25	0.31	-2.13	-2.71	-0.37	0.11	2.99	17.10	-3.11	-1.54	4.21	**10.4**
3249	767	1,3,7,9,10,13,17,19,22,25,29,36,35,37,40,41,44,55	1.58	0.40	3.70	-7.94	-0.51	0.25	0.25	-3.56	-2.11	-2.70	0.03	-1.80	8.41	17.10	1.06	-1.54	-2.17	**10.4**
3250	1874	1,6,8,14,30,31,34,36,39,41,43,50,54	3.17	-1.67	12.55	-0.36	0.89	-1.46	4.55	-5.58	-11.51	12.89	-0.67	0.11	9.10	-10.24	2.45	-1.54	-2.17	**10.5**
3251	4256	2,4,7,11,17,19,22,25,29,36,38,40,42,49,53,54	-0.57	-0.12	-2.23	-5.09	4.16	-0.60	0.96	5.27	-1.05	-3.20	-0.34	0.11	3.13	10.51	-3.11	-1.54	4.21	**10.5**
3252	104	1,3,7,11,13,15,23,27,28,34,35,37,40,41,45,55	2.35	0.14	2.17	-0.16	1.14	2.82	-0.47	8.09	5.97	2.19	0.24	-1.80	2.06	-11.56	1.06	-1.54	-2.17	**10.5**
3253	2041	1,6,9,11,13,16,18,19,22,24,29,36,35,37,42,47,50,54	0.57	0.66	-1.31	-2.61	0.06	1.11	-0.47	-2.78	1.42	-2.87	0.09	-1.80	4.62	15.12	2.45	-1.54	-2.17	**10.5**
3254	5213	2,5,19,21,28,31,33,37,42,47,50,54	-2.00	0.40	1.02	-8.76	-7.16	3.68	-2.62	-1.44	5.09	6.58	-2.15	3.93	5.13	5.24	-0.33	2.28	1.66	**10.5**
3255	3182	2,4,3,6,9,11,13,12,14,30,31,34,38,43,50,54	0.14	-1.41	-1.89	6.85	11.11	0.25	1.68	1.87	-0.27	2.80	0.06	-1.80	-2.59	-8.59	-0.33	-1.54	4.21	**10.5**
3256	5136	2,5,19,18,21,28,34,35,37,42,49,53,54	-2.09	0.66	1.00	-8.90	-5.52	1.97	-4.06	0.64	3.97	5.56	-1.98	5.84	4.67	5.24	-0.33	2.28	1.66	**10.6**
3257	2930	2,4,3,6,10,16,18,19,22,25,29,39,41,43,50,54	0.14	0.14	3.82	-8.19	-1.54	-3.18	1.68	-7.48	-1.56	5.56	-1.80	-1.80	6.84	22.04	-0.33	-1.54	-2.17	**10.6**
3258	2061	1,6,9,11,13,16,18,19,22,24,29,39,44,55	-1.94	-0.90	7.84	-5.89	-3.81	-3.18	-1.91	-2.92	0.28	4.67	-1.43	-1.80	7.75	15.12	2.45	-1.54	-2.17	**10.6**
3259	2873	2,4,3,6,10,16,18,19,22,24,29,36,35,37,40,41,44,55	2.28	0.14	4.06	-5.11	-0.65	-0.60	-1.91	-8.85	-0.70	-3.01	0.44	-1.80	8.69	21.71	-0.33	-1.54	-2.17	**10.6**
3260	3715	2,4,3,6,9,11,17,21,28,31,30,32,48,51	1.43	0.40	8.08	-5.36	-7.26	3.68	6.70	-4.85	2.24	-3.51	0.79	-1.80	12.70	-3.65	-0.33	-1.54	2.94	**10.7**
3261	2663	2,4,3,6,10,13,17,19,22,24,29,39,41,43,47,49,53,54	1.06	1.44	4.43	-5.23	-4.11	-3.18	0.96	-5.49	-2.13	4.88	-1.17	0.11	7.68	15.45	-0.33	-1.54	-2.17	**10.7**
3262	5122	2,5,19,18,21,28,31,33,37,40,43,50,54	-1.91	1.18	1.10	-9.21	-7.41	3.68	-2.62	-1.44	5.09	6.27	-2.16	3.93	5.34	5.24	-0.33	2.28	1.66	**10.7**
3263	3265	2,4,3,6,9,11,13,15,23,27,28,34,36,39,41,40,42,46,48,51	3.45	1.18	8.09	5.47	-5.51	-1.46	0.96	1.16	-2.06	8.34	-0.31	2.02	6.28	-12.87	-0.33	-1.54	-2.17	**10.7**
3264	4410	2,4,7,9,10,13,17,18,20,23,26,31,34,35,37,40,41,45,55	2.74	1.44	0.60	2.11	0.06	1.97	-0.47	2.45	7.23	0.44	0.68	-1.80	0.24	-3.98	-3.11	2.28	-2.17	**10.7**
3265	418	1,3,7,11,17,18,20,23,27,28,31,33,37,40,41,45,55	2.44	-0.12	0.56	3.30	-0.73	2.82	0.96	7.81	5.68	2.44	0.44	-1.80	0.11	-10.57	1.06	-1.54	-2.17	**10.7**
3266	5	1,3,7,11,13,12,14,30,31,34,35,37,40,43,47,49,53,54	0.35	-0.90	-1.56	6.72	7.56	1.97	1.68	7.69	-3.57	2.35	0.25	0.11	-2.00	-7.27	1.06	-1.54	-2.17	**10.7**
3267	4530	2,4,7,9,10,13,17,19,22,25,29,36,35,37,42,46,48,52,53,54	2.37	0.66	4.27	-0.95	-3.89	-1.46	3.11	-3.25	-3.92	-3.61	0.77	0.11	6.23	17.10	-3.11	-1.54	-2.17	**10.7**
3268	3897	2,4,7,11,13,16,18,19,22,24,29,36,35,37,42,47,50,54	0.31	0.66	-1.43	-2.31	0.51	0.25	0.25	1.62	1.74	-2.92	-0.06	-1.80	4.31	16.44	-3.11	-1.54	-2.17	**10.7**
3269	60	1,3,7,11,13,15,23,26,31,34,36,39,41,40,42,46,48,52,53,54	2.28	0.66	5.65	2.54	-4.14	-2.32	0.96	7.07	0.16	6.16	-0.42	0.11	2.44	-11.56	1.06	2.28	-2.17	**10.8**
3270	2410	1,6,9,11,17,19,22,25,29,39,41,40,42,49,53,54	0.28	-0.38	4.55	-7.10	-2.96	-2.32	2.40	-0.04	-2.78	4.78	-1.45	0.11	7.75	9.19	2.45	-1.54	-2.17	**10.8**
3271	3636	2,4,3,6,9,11,17,19,22,24,29,39,41,43,50,54	0.81	0.92	4.96	-4.30	-4.23	-3.18	2.40	-2.61	1.30	4.85	-1.31	-1.80	8.14	8.86	-0.33	-1.54	-2.17	**10.8**
3272	1215	1,3,7,9,8,14,30,31,34,35,37,42,46,48,51	3.37	-1.93	13.67	5.94	-2.65	0.25	5.98	-2.05	-14.36	-0.11	2.00	3.93	8.32	-8.92	1.06	-1.54	-2.17	**10.8**
3273	1670	1,6,10,16,18,19,22,25,29,36,38,43,50,54	-0.64	-1.15	-2.92	-7.29	4.63	0.25	-0.47	-6.18	-0.14	-2.40	-0.54	-1.80	2.30	22.04	2.45	-1.54	4.21	**10.8**
3274	2803	2,4,3,6,10,15,23,26,31,34,36,39,41,43,47,46,48,51	3.37	1.18	7.79	3.82	-6.75	-1.46	0.25	-3.80	-1.75	6.76	-0.14	2.02	6.02	-6.29	-0.33	2.28	-2.17	**10.8**
3275	1547	1,6,10,15,23,26,31,34,36,39,41,40,42,46,48,51	3.19	-0.12	7.69	2.60	-7.47	-0.60	0.25	-3.40	-1.75	6.54	-0.16	2.02	5.75	-6.29	2.45	2.28	-2.17	**10.8**
3276	3190	2,4,3,6,9,11,13,12,14,30,33,37,42,46,48,52,53,54	2.91	-1.41	4.95	12.58	1.59	-0.60	4.55	0.40	-5.59	1.74	1.39	0.11	0.85	-8.59	-0.33	-1.54	-2.17	**10.8**
3277	3741	2,4,3,6,9,11,17,21,28,34,36,39,41,43,47,46,48,51	3.15	0.66	7.45	8.21	-5.19	0.25	3.11	-1.89	-3.28	5.13	0.29	2.02	5.85	-10.90	-0.33	-1.54	-2.17	**10.8**
3278	2485	1,6,9,11,17,21,28,34,36,39,41,40,42,46,48,51	2.97	-0.64	7.34	6.99	-5.92	1.11	3.11	-1.49	-3.28	4.90	0.27	2.02	5.59	-10.90	2.45	-1.54	-2.17	**10.8**
3279	1403	1,6,10,13,17,19,22,24,29,36,38,43,47,49,53,54	0.28	0.14	-2.32	-4.34	2.06	0.25	-1.19	-4.19	-0.71	-3.08	0.09	0.11	3.15	15.45	2.45	-1.54	4.21	**10.8**
3280	3917	2,4,7,11,13,16,18,19,22,24,29,39,44,55	-2.20	-0.90	7.72	-5.59	-3.36	-4.03	-1.19	1.48	0.60	4.62	-1.58	-1.80	7.44	16.44	-3.11	-1.54	-2.17	**10.8**
3281	2228	1,6,9,11,13,16,20,23,27,28,31,30,32,48,52,53,54	0.56	-0.12	4.23	-6.68	-3.79	1.11	3.83	-0.98	4.88	-0.13	0.06	-3.71	6.11	1.62	2.45	-1.54	2.94	**10.8**
3282	652	1,3,7,9,10,13,17,18,20,23,26,30,32,48,52,53,54	0.57	0.92	4.09	-8.58	-6.27	1.11	4.55	-1.13	5.53	-2.13	0.14	-3.71	6.22	3.26	1.06	2.28	2.94	**10.9**
3283	1528	1,6,10,13,17,21,28,34,38,41,45,55	1.91	-1.15	0.56	0.55	4.40	3.68	0.25	-3.24	4.62	-0.78	0.77	-1.80	0.32	-4.31	2.45	-1.54	4.21	**10.9**
3284	4936	2,4,7,9,10,16,20,23,27,28,34,35,37,40,41,45,55	2.34	-0.12	-0.09	2.04	2.32	1.97	-1.19	2.45	5.81	2.50	0.29	-1.80	-1.09	2.28	-3.11	-1.54	-2.17	**10.9**
3285	2376	1,6,9,11,17,19,22,24,29,36,38,43,50,54	0.03	-0.38	-1.78	-3.41	1.94	0.25	0.25	-1.31	2.72	-3.11	-0.06	-1.80	3.61	8.86	2.45	-1.54	4.21	**10.9**
3286	2422	1,6,9,11,17,21,27,26,31,34,35,37,40,41,45,55	2.74	0.40	2.30	2.09	-0.01	4.54	0.96	0.24	5.84	-2.46	1.28	-1.80	3.16	-10.90	2.45	2.28	-2.17	**10.9**
3287	4266	2,4,7,11,17,19,22,25,29,39,41,40,42,49,53,54	0.03	-0.38	4.43	-6.80	-2.51	-3.18	3.11	4.37	-2.46	4.73	-1.60	0.11	7.44	10.51	-3.11	-1.54	-2.17	**11.0**
3288	80	1,3,7,11,13,15,23,26,33,37,40,41,45,55	2.33	-0.38	2.44	-0.41	-1.68	2.82	0.25	8.09	6.18	0.22	0.52	-1.80	2.77	-11.56	1.06	2.28	-2.17	**11.0**
3289	2254	1,6,9,11,13,16,20,23,27,28,34,36,39,41,43,47,46,48,52,53,54	2.28	0.14	3.60	6.89	-1.73	-2.32	0.25	1.98	-0.64	8.51	-0.44	0.11	-0.74	-5.63	2.45	-1.54	-2.17	**11.0**
3290	217	1,3,7,11,13,16,18,21,27,26,31,34,38,40,42,46,48,51	-0.37	0.66	-0.79	5.58	1.39	1.97	0.96	4.21	-0.14	-8.27	1.57	2.02	-2.03	-3.32	1.06	2.28	4.21	**11.0**
3291	4341	2,4,7,11,17,21,28,34,36,39,41,40,42,46,48,51	2.71	-0.64	7.22	7.29	-5.47	0.25	3.83	2.91	-2.96	4.85	0.12	2.02	5.28	-9.58	-3.11	-1.54	-2.17	**11.0**
3292	1102	1,3,7,9,10,16,18,21,28,34,36,39,41,40,42,46,48,52,53,54	2.10	0.40	4.03	3.30	-2.00	-0.60	1.68	-0.93	-3.55	5.11	-0.22	0.11	0.99	3.26	1.06	-1.54	-2.17	**11.0**
3293	3665	2,4,3,6,9,11,17,19,22,25,29,39,41,43,47,49,53,54	0.47	1.18	4.65	-5.88	-2.24	-3.18	2.40	-0.44	-2.78	5.01	-1.43	0.11	8.01	9.19	-0.33	-1.54	-2.17	**11.0**
3294	4084	2,4,7,11,13,16,20,23,27,28,31,30,32,48,52,53,54	0.31	-0.12	4.12	-6.38	-3.34	0.25	4.55	3.43	5.19	-0.18	-0.09	-3.71	5.80	2.94	-3.11	-1.54	2.94	**11.0**
3295	4599	2,4,7,9,10,13,17,21,28,31,30,32,48,51	1.28	0.40	7.42	-7.40	-7.52	3.68	6.70	-5.00	1.48	-3.30	0.59	-1.80	11.99	4.25	-3.11	-1.54	2.94	**11.1**
3296	1392	1,6,10,13,17,19,22,24,29,36,35,37,42,46,48,52,53,54	2.94	-0.12	4.61	0.92	-6.00	-0.60	1.68	-7.74	-2.51	-3.97	1.23	0.11	6.38	15.45	2.45	-1.54	-2.17	**11.1**
3297	4232	2,4,7,11,17,19,22,24,29,36,38,43,50,54	-0.22	-0.38	-1.90	-3.12	2.39	-0.60	0.96	3.09	3.03	-3.16	-0.21	-1.80	3.30	10.18	-3.11	-1.54	4.21	**11.1**
3298	4278	2,4,7,11,17,21,27,26,31,34,35,37,40,41,45,55	2.48	0.40	2.18	2.38	0.44	3.68	1.68	4.65	6.16	-2.51	1.13	-1.80	2.85	-9.58	-3.11	2.28	-2.17	**11.1**
3299	4892	2,4,7,9,10,16,20,23,26,31,34,36,39,41,40,42,46,48,52,53,54	2.27	0.40	3.39	4.74	-2.96	-3.18	0.25	1.43	0.01	6.48	-0.37	0.11	-0.71	2.28	-3.11	2.28	-2.17	**11.1**
3300	4520	2,4,7,9,10,13,17,19,22,24,29,39,41,43,50,54	0.66	0.92	4.30	-6.35	-4.49	-3.18	2.40	-2.76	0.54	5.06	-1.51	-1.80	7.43	16.77	-3.11	-1.54	-2.17	**11.2**

Table F-3: Weighted, Sorted Z-scores for All Routes

		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
3301	812	1,3,7,9,10,13,17,21,27,26,31,34,36,39,41,40,42,46,48,52,53,54	2.58	1.44	4.77	3.36	-4.26	-0.60	2.40	-0.93	-2.14	3.79	0.13	0.11	2.35	-2.99	1.06	2.28	-2.17	**11.2**
3302	3122	2,4,3,6,8,14,30,31,34,36,39,41,40,42,49,53,54	3.64	-0.64	12.78	0.66	1.50	-2.32	3.83	-3.89	-13.83	12.46	-0.42	2.02	9.68	-10.24	-0.33	-1.54	-2.17	**11.2**
3303	4110	2,4,7,11,13,16,20,23,27,28,34,36,39,41,43,47,46,48,52,53,54	2.03	0.14	3.48	7.19	-1.28	-3.18	0.96	6.39	-0.33	8.46	-0.59	0.11	-1.05	-4.31	-3.11	-1.54	-2.17	**11.2**
3304	2405	1,6,9,11,17,19,22,25,29,36,38,43,47,49,53,54	-0.31	-0.12	-2.09	-4.99	3.93	0.25	0.25	0.86	-1.36	-2.95	-0.18	0.11	3.48	9.19	2.45	-1.54	4.21	**11.2**
3305	4625	2,4,7,9,10,13,17,21,28,34,36,39,41,43,47,46,48,51	3.00	0.66	6.79	6.17	-5.46	0.25	3.11	-2.04	-4.04	5.33	0.09	2.02	5.14	-2.99	-3.11	-1.54	-2.17	**11.2**
3306	1700	1,6,10,16,18,21,27,26,31,34,36,39,41,43,47,46,48,52,53,54	2.47	0.66	4.60	3.60	-3.02	-0.60	0.96	-5.74	-2.48	4.07	0.17	0.11	1.91	1.95	2.45	2.28	-2.17	**11.2**
3307	3482	2,4,3,6,9,11,13,16,20,23,27,28,31,33,37,40,41,45,55	2.78	0.92	0.67	4.38	1.02	1.97	-0.47	2.60	5.37	2.55	0.59	-1.80	0.35	-5.63	-0.33	-1.54	-2.17	**11.3**
3308	520	1,3,7,11,17,21,27,26,30,32,48,52,53,54	0.31	-0.12	5.67	-8.30	-5.89	2.82	6.70	1.07	4.46	-5.09	0.60	-3.71	8.82	-2.33	1.06	2.28	2.94	**11.3**
3309	4912	2,4,7,9,10,16,20,23,26,33,37,40,41,45,55	2.32	-0.64	0.19	1.80	-0.50	1.97	-0.47	2.45	6.02	0.54	0.58	-1.80	-0.38	2.28	-3.11	2.28	-2.17	**11.3**
3310	5220	2,5,19,21,28,34,35,37,40,43,50,54	-2.12	0.66	1.06	-9.10	-5.62	3.68	-3.34	-1.44	6.30	6.02	-2.20	3.93	4.68	5.24	-0.33	2.28	1.66	**11.4**
3311	1343	1,6,10,13,17,18,20,23,27,28,31,30,32,48,51	1.51	-0.12	6.41	-6.46	-8.14	2.82	4.55	-6.64	3.28	0.16	0.26	-1.80	9.73	1.95	2.45	-1.54	2.94	**11.4**
3312	4384	2,4,7,9,10,12,14,30,31,34,38,40,42,49,53,54	0.08	-1.41	-2.56	4.59	10.73	0.25	0.96	3.80	-3.36	2.54	0.03	0.11	-3.28	-0.69	-3.11	-1.54	4.21	**11.4**
3313	832	1,3,7,9,10,13,17,21,27,26,33,37,40,41,45,55	2.63	0.40	1.57	0.42	-1.79	4.54	1.68	0.09	3.87	-2.15	1.08	-1.80	2.67	-2.99	1.06	2.28	-2.17	**11.4**
3314	4261	2,4,7,11,17,19,22,25,29,36,38,43,47,49,53,54	-0.57	-0.12	-2.21	-4.69	4.38	-0.60	0.96	5.27	-1.05	-3.00	-0.33	0.11	3.17	10.51	-3.11	-1.54	4.21	**11.4**
3315	487	1,3,7,11,17,19,22,25,29,36,35,37,40,41,44,55	1.30	-0.64	4.15	-6.43	-0.30	0.25	0.96	1.40	-1.03	-2.99	0.07	-1.80	8.59	10.51	1.06	-1.54	-2.17	**11.4**
3316	4759	2,4,7,9,10,16,18,19,22,25,29,36,35,37,40,41,44,55	1.53	-0.12	3.63	-7.80	0.96	-0.60	-0.47	-3.96	-2.11	-2.67	-0.02	-1.80	8.30	23.35	-3.11	-1.54	-2.17	**11.4**
3317	1275	1,6,10,12,14,30,31,34,38,40,42,47,50,54	0.13	-2.19	-2.52	4.55	10.43	2.82	0.96	-2.69	-1.37	3.36	-0.07	-1.80	-3.33	-2.01	2.45	-1.54	4.21	**11.4**
3318	4549	2,4,7,9,10,13,17,19,22,25,29,39,41,43,47,49,53,54	0.31	1.18	3.99	-7.92	-2.50	-3.18	2.40	-0.59	-3.54	5.21	-1.64	0.11	7.30	17.10	-3.11	-1.54	-2.17	**11.4**
3319	1286	1,6,10,12,14,30,33,37,40,43,47,46,48,52,53,54	2.87	-2.19	4.32	10.24	0.87	1.97	3.83	-4.16	-6.70	2.20	1.24	0.11	0.11	-2.01	2.45	-1.54	-2.17	**11.4**
3320	2649	2,4,3,6,10,13,17,19,22,24,29,36,38,40,42,47,50,54	0.58	1.44	-2.09	-3.65	2.49	1.11	-0.47	-6.67	1.61	-2.48	-0.09	-1.80	3.66	15.45	-0.33	-1.54	4.21	**11.4**
3321	708	1,3,7,9,10,13,17,18,20,23,27,28,34,35,37,40,41,45,55	2.64	0.92	0.16	1.90	0.85	2.82	-0.47	2.85	5.81	2.47	0.38	-1.80	-0.46	-3.98	1.06	-1.54	-2.17	**11.4**
3322	2274	1,6,9,11,17,18,20,23,26,31,34,35,37,40,41,45,55	2.72	0.40	1.17	3.32	-0.18	2.82	-0.47	3.00	7.99	0.20	0.86	-1.80	0.73	-11.89	2.45	2.28	-2.17	**11.4**
3323	2394	1,6,9,11,17,19,22,25,29,36,35,37,42,46,48,52,53,54	2.35	-0.38	4.84	0.27	-4.13	-0.60	3.11	-2.69	-3.15	-3.84	0.96	0.11	6.71	9.19	2.45	-1.54	-2.17	**11.5**
3324	1369	1,6,10,13,17,18,20,23,27,28,34,36,39,41,43,47,46,48,51	3.23	0.14	5.77	7.11	-6.08	-0.60	0.96	-3.69	-2.24	8.80	-0.25	2.02	2.88	-5.30	2.45	-1.54	-2.17	**11.5**
3325	2142	1,6,9,11,13,16,18,21,28,31,33,37,40,41,45,55	2.55	0.40	1.65	2.31	0.69	4.54	0.96	0.24	3.22	-0.89	1.02	-1.80	2.54	-4.64	2.45	-1.54	-2.17	**11.5**
3326	5125	2,5,19,18,21,28,31,33,37,42,47,50,54	-1.88	0.92	1.11	-8.76	-7.16	3.68	-2.62	-1.44	5.09	6.58	-2.14	3.93	5.39	5.24	-0.33	2.28	1.66	**11.5**
3327	223	1,3,7,11,13,16,18,21,27,26,31,34,38,43,47,46,48,51	-0.37	0.40	-0.78	5.98	1.61	1.97	0.96	4.21	-0.14	-8.07	1.57	2.02	-1.99	-3.32	1.06	2.28	4.21	**11.6**
3328	3026	2,4,3,6,10,16,20,23,26,31,34,35,37,40,41,45,55	2.62	0.40	0.41	2.43	1.35	1.97	-1.91	-2.35	6.88	0.52	0.73	-1.80	-0.34	0.96	-0.33	2.28	-2.17	**11.6**
3329	4130	2,4,7,11,17,18,20,23,26,31,34,35,37,40,41,45,55	2.46	0.40	1.05	3.62	0.27	1.97	0.25	7.41	8.30	0.15	0.71	-1.80	0.42	-10.57	-3.11	2.28	-2.17	**11.6**
3330	4250	2,4,7,11,17,19,22,25,29,36,35,37,42,46,48,52,53,54	2.09	-0.38	4.72	0.56	-3.68	-1.46	3.83	1.71	-2.84	-3.90	0.81	0.11	6.40	10.51	-3.11	-1.54	-2.17	**11.7**
3331	664	1,3,7,9,10,13,17,18,20,23,26,31,34,36,39,41,40,42,46,48,52,53,54	2.57	1.44	3.64	4.60	-4.43	-2.32	0.96	1.83	0.01	6.45	-0.29	0.11	-0.08	-3.98	1.06	2.28	-2.17	**11.7**
3332	3243	2,4,3,6,9,11,13,15,23,27,28,31,30,32,48,51	1.73	1.18	8.74	-7.70	-7.35	1.97	4.55	-1.80	3.46	-0.09	0.20	-1.80	13.16	-5.63	-0.33	-1.54	2.94	**11.7**
3333	1930	1,6,9,11,13,12,14,30,31,34,38,43,50,54	-0.03	-2.45	-1.98	6.02	10.61	1.11	1.68	2.27	-0.27	2.77	0.05	-1.80	-2.82	-8.59	2.45	-1.54	4.21	**11.7**
3334	978	1,3,7,9,10,16,18,19,22,24,29,36,35,37,40,43,50,54	0.42	0.92	-1.96	-5.02	-0.41	1.11	-0.47	-2.94	0.66	-2.97	-0.16	-1.80	3.93	23.02	1.06	-1.54	-2.17	**11.7**
3335	2670	2,4,3,6,10,13,17,19,22,25,29,36,35,37,40,43,47,46,48,52,53,54	2.87	1.44	4.53	-0.03	-3.62	0.25	2.40	-8.05	-4.26	-3.33	0.91	0.11	6.75	15.78	-0.33	-1.54	-2.17	**11.7**
3336	3998	2,4,7,11,13,16,18,21,28,31,33,37,40,41,45,55	2.29	0.40	1.54	2.61	1.13	3.68	1.68	4.65	3.54	-0.94	0.87	-1.80	2.23	-3.32	-3.11	-1.54	-2.17	**11.7**
3337	3289	2,4,3,6,9,11,13,16,18,19,22,24,29,36,35,37,40,43,47,49,53,54	1.01	2.48	-1.08	-1.64	0.64	0.25	-1.19	-1.10	-0.90	-3.41	0.32	0.11	5.18	15.12	-0.33	-1.54	-2.17	**11.7**
3338	1678	1,6,10,16,18,19,22,25,29,39,41,43,50,54	-0.04	-0.90	3.74	-9.01	-2.05	-2.32	1.68	-7.08	-1.56	5.53	-1.81	-1.80	6.61	22.04	2.45	-1.54	-2.17	**11.8**
3339	1621	1,6,10,16,18,19,22,24,29,36,35,37,40,41,44,55	2.10	-0.90	3.97	-5.94	-1.15	0.25	-1.91	-8.45	-0.70	-3.04	0.43	-1.80	8.46	21.71	2.45	-1.54	-2.17	**11.8**
3340	3651	2,4,3,6,9,11,17,19,22,25,29,36,38,40,42,47,50,54	-0.01	1.18	-1.86	-4.30	4.36	1.11	0.96	-1.62	0.96	-2.35	-0.35	-1.80	3.98	9.19	-0.33	-1.54	4.21	**11.8**
3341	372	1,3,7,11,17,18,20,23,26,30,32,48,52,53,54	0.29	-0.12	4.54	-7.06	-6.06	1.11	5.26	3.83	6.61	-2.42	0.18	-3.71	6.39	-3.32	1.06	2.28	2.94	**11.8**
3342	2463	1,6,9,11,17,21,28,31,30,32,48,51	1.25	-0.64	8.00	-6.19	-7.76	4.54	6.70	-4.45	2.24	-3.54	0.78	-1.80	12.48	-3.65	2.45	-1.54	2.94	**11.8**
3343	1411	1,6,10,13,17,19,22,24,29,39,41,43,47,49,53,54	0.88	0.40	4.34	-6.05	-4.61	-2.32	0.96	-5.09	-2.13	4.85	-1.18	0.11	7.46	15.45	2.45	-1.54	-2.17	**11.8**
3344	4792	2,4,7,9,10,16,18,21,27,26,30,32,48,52,53,54	0.54	0.92	5.15	-9.67	-4.63	1.97	5.26	-4.29	3.38	-4.77	0.50	-3.71	8.54	10.51	-3.11	2.28	2.94	**11.8**
3345	3269	2,4,3,6,9,11,13,15,23,27,28,34,36,39,41,43,47,46,48,51	3.45	1.44	8.10	5.87	-5.29	-1.46	0.96	1.16	-2.06	8.54	-0.31	2.02	6.31	-12.87	-0.33	-1.54	-2.17	**11.8**
3346	2013	1,6,9,11,13,15,23,27,28,34,36,39,41,40,42,46,48,51	3.27	0.14	8.00	4.65	-6.01	-0.60	0.96	1.56	-2.06	8.31	-0.33	2.02	6.05	-12.87	2.45	-1.54	-2.17	**11.8**
3347	31	1,3,7,11,13,12,14,30,33,37,40,41,44,55	1.68	-2.71	4.17	5.06	4.91	1.11	2.40	4.90	-3.47	2.57	0.48	-1.80	2.50	-7.27	1.06	-1.54	-2.17	**11.9**
3348	890	1,3,7,9,10,15,23,26,31,34,35,37,40,41,45,55	2.60	0.92	2.10	-2.22	-0.32	2.82	-1.19	3.14	6.30	0.41	0.46	-1.80	2.44	-4.97	1.06	2.28	-2.17	**11.9**
3349	3786	2,4,7,11,13,12,14,30,31,34,38,43,50,54	-0.29	-2.45	-2.10	6.32	11.06	0.25	2.40	6.68	0.05	2.71	-0.10	-1.80	-3.13	-7.27	-3.11	-1.54	4.21	**11.9**
3350	1190	1,3,7,9,10,16,20,23,27,28,34,36,39,41,40,42,46,48,52,53,54	2.16	-0.12	2.95	4.53	-2.17	-2.32	0.25	1.83	-1.41	8.52	-0.67	0.11	-1.41	2.28	1.06	-1.54	-2.17	**11.9**
3351	684	1,3,7,9,10,13,17,18,20,23,26,33,37,40,41,45,55	2.62	0.40	0.44	1.65	-1.96	2.82	0.25	2.85	6.02	0.51	0.66	-1.80	0.24	-3.98	1.06	2.28	-2.17	**11.9**
3352	2681	2,4,3,6,10,13,17,19,22,25,29,36,38,41,44,55	1.34	0.14	3.29	-7.23	3.37	-1.46	-0.47	-7.29	-1.16	-2.52	0.02	-1.80	7.53	15.78	-0.33	-1.54	4.21	**11.9**
3353	2659	2,4,3,6,10,13,17,19,22,24,29,39,41,40,42,47,50,54	1.18	1.18	4.57	-5.37	-4.19	-1.46	1.68	-7.57	0.20	5.45	-1.36	-1.80	7.97	15.45	-0.33	-1.54	-2.17	**11.9**
3354	64	1,3,7,11,13,15,23,26,31,34,36,39,41,43,47,46,48,52,53,54	2.28	0.92	5.66	2.94	-3.92	-2.32	0.96	7.07	0.16	6.36	-0.42	0.11	2.48	-11.56	1.06	2.28	-2.17	**11.9**
3355	2384	1,6,9,11,17,19,22,24,29,39,41,43,50,54	0.64	-0.12	4.88	-5.13	-4.73	-2.32	2.40	-2.21	1.30	4.82	-1.32	-1.80	7.92	8.86	2.45	-1.54	-2.17	**11.9**

Table F-3: Weighted, Sorted Z-scores for All Routes

		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
3356	1551	1,6,10,15,23,26,31,34,36,39,41,43,47,46,48,51	3.19	0.14	7.71	3.00	-7.25	-0.60	0.25	-3.40	-1.75	6.73	-0.16	2.02	5.79	-6.29	2.45	2.28	-2.17	**11.9**
3357	1007	1,3,7,9,10,16,18,19,22,25,29,36,35,37,40,43,47,49,53,54	0.07	1.18	-2.27	-6.59	1.58	1.11	-0.47	-0.76	-3.42	-2.81	-0.28	0.11	3.80	23.35	1.06	-1.54	-2.17	**11.9**
3358	1938	1,6,9,11,13,12,14,30,33,37,42,46,48,52,53,54	2.73	-2.45	4.86	11.76	1.08	0.25	4.55	0.80	-5.59	1.72	1.38	0.11	0.63	-8.59	2.45	-1.54	-2.17	**12.0**
3359	2489	1,6,9,11,17,21,28,34,36,39,41,43,47,46,48,51	2.97	-0.38	7.36	7.39	-5.70	1.11	3.11	-1.49	-3.28	5.10	0.27	2.02	5.63	-10.90	2.45	-1.54	-2.17	**12.0**
3360	2916	2,4,3,6,10,16,18,19,22,25,29,36,38,40,42,49,53,54	-0.17	0.40	-2.70	-6.28	5.24	-0.60	-1.19	-4.50	-2.47	-2.83	-0.29	0.11	2.88	22.04	-0.33	-1.54	4.21	**12.0**
3361	1241	1,3,7,9,8,14,30,33,37,40,43,47,46,48,51	3.57	-1.67	13.71	6.23	-4.22	1.97	6.70	-2.05	-15.56	0.19	1.98	3.93	8.81	-8.92	1.06	-1.54	-2.17	**12.0**
3362	4319	2,4,7,11,17,21,28,31,30,32,48,51	1.00	-0.64	7.88	-5.89	-7.31	3.68	7.41	-0.04	2.56	-3.59	0.62	-1.80	12.17	-2.33	-3.11	-1.54	2.94	**12.0**
3363	1080	1,3,7,9,10,16,18,21,28,31,30,32,48,52,53,54	0.39	0.40	4.68	-9.88	-3.84	2.82	5.26	-3.89	1.97	-3.33	0.28	-3.71	7.88	10.51	1.06	-1.54	2.94	**12.0**
3364	2862	2,4,3,6,10,15,23,27,28,34,36,39,45,55	1.43	0.14	6.84	0.06	-2.09	0.25	-2.62	-1.50	4.43	14.43	-1.59	-1.80	4.35	-6.29	-0.33	-1.54	-2.17	**12.0**
3365	3869	2,4,7,11,13,15,23,27,28,34,36,39,41,40,42,46,48,51	3.01	0.14	7.88	4.95	-5.56	-1.46	1.68	5.96	-1.74	8.26	-0.48	2.02	5.74	-11.56	-3.11	-1.54	-2.17	**12.0**
3366	3404	2,4,3,6,9,11,13,16,18,21,28,34,35,37,40,41,45,55	2.64	1.44	1.79	3.25	2.98	3.68	0.25	-0.16	4.43	-1.11	1.01	-1.80	2.36	-4.64	-0.33	-1.54	-2.17	**12.1**
3367	168	1,3,7,11,13,16,18,19,22,25,29,36,35,37,40,43,50,54	-0.30	0.66	-1.83	-5.27	1.68	1.11	0.96	2.11	-0.02	-2.84	-0.41	-1.80	3.91	16.77	1.06	-1.54	-2.17	**12.1**
3368	4240	2,4,7,11,17,19,22,24,29,39,41,43,50,54	0.38	-0.12	4.76	-4.83	-4.28	-3.18	3.11	2.19	1.62	4.77	-1.48	-1.80	7.61	10.18	-3.11	-1.54	-2.17	**12.1**
3369	532	1,3,7,11,17,21,27,26,31,34,36,39,41,40,42,46,48,52,53,54	2.30	0.40	5.22	4.88	-4.05	-0.60	3.11	4.02	-1.06	3.50	0.17	0.11	2.52	-9.58	1.06	2.28	-2.17	**12.1**
3370	3622	2,4,3,6,9,11,17,19,22,24,29,36,38,40,42,49,53,54	0.50	1.18	-1.55	-2.39	2.55	-0.60	-0.47	0.37	0.39	-3.54	0.19	0.11	4.19	8.86	-0.33	-1.54	4.21	**12.1**
3371	3794	2,4,7,11,13,12,14,30,33,37,42,46,48,52,53,54	2.47	-2.45	4.74	12.05	1.53	-0.60	5.26	5.21	-5.28	1.66	1.22	0.11	0.32	-7.27	-3.11	-1.54	-2.17	**12.1**
3372	4345	2,4,7,11,17,21,28,34,36,39,41,43,47,46,48,51	2.72	-0.38	7.24	7.68	-5.25	0.25	3.83	2.91	-2.96	5.04	0.12	2.02	5.32	-9.58	-3.11	-1.54	-2.17	**12.1**
3373	1106	1,3,7,9,10,16,18,21,28,34,36,39,41,43,47,46,48,52,53,54	2.11	0.66	4.04	3.69	-1.78	-0.60	1.68	-0.93	-3.55	5.31	-0.22	0.11	1.03	3.26	1.06	-1.54	-2.17	**12.2**
3374	2413	1,6,9,11,17,19,22,25,29,39,41,43,47,49,53,54	0.29	0.14	4.57	-6.70	-2.74	-2.32	2.40	-0.04	-2.78	4.98	-1.45	0.11	7.78	9.19	2.45	-1.54	-2.17	**12.2**
3375	4535	2,4,7,9,10,13,17,19,22,25,29,36,38,40,42,47,50,54	-0.16	1.18	-2.52	-6.34	4.10	1.11	0.96	-1.78	0.20	-2.15	-0.55	-1.80	3.28	17.10	-3.11	-1.54	4.21	**12.2**
3376	5008	2,4,7,9,8,14,32,48,52,53,54	1.72	-2.19	18.32	-7.55	-4.65	-0.60	9.56	-4.13	-8.47	3.17	0.09	-1.80	14.11	-3.65	-3.11	-1.54	2.94	**12.2**
3377	5223	2,5,19,21,28,34,35,37,42,47,50,54	-2.08	0.40	1.07	-8.65	-5.37	3.68	-3.34	-1.44	6.30	6.32	-2.18	3.93	4.73	5.24	-0.33	2.28	1.66	**12.2**
3378	4389	2,4,7,9,10,12,14,30,31,34,38,43,47,49,53,54	0.08	-1.41	-2.54	4.99	10.95	0.25	0.96	3.80	-3.36	2.74	0.03	0.11	-3.24	-0.69	-3.11	-1.54	4.21	**12.2**
3379	3661	2,4,3,6,9,11,17,19,22,25,29,39,41,40,42,47,50,54	0.59	0.92	4.80	-6.02	-2.32	-1.46	3.11	-2.52	-0.45	5.57	-1.62	-1.80	8.29	9.19	-0.33	-1.54	-2.17	**12.2**
3380	4896	2,4,7,9,10,16,20,23,26,31,34,36,39,41,43,47,46,48,52,53,54	2.28	0.66	3.41	5.14	-2.74	-3.18	0.25	1.43	0.01	6.68	-0.36	0.11	-0.67	2.28	-3.11	2.28	-2.17	**12.3**
3381	4724	2,4,7,9,10,15,23,27,28,34,38,41,45,55	2.08	-0.12	1.19	-1.89	4.53	1.11	-1.19	4.21	6.18	2.58	0.02	-1.80	0.82	-4.97	-3.11	-1.54	4.21	**12.3**
3382	816	1,3,7,9,10,13,17,21,27,26,31,34,36,39,41,43,47,46,48,52,53,54	2.59	1.70	4.79	3.76	-4.04	-0.60	2.40	-0.93	-2.14	3.99	0.14	0.11	2.38	-2.99	1.06	2.28	-2.17	**12.3**
3383	1870	1,6,8,14,30,31,34,36,39,41,40,42,49,53,54	3.46	-1.67	12.69	-0.17	1.00	-1.46	3.83	-3.49	-13.83	12.43	-0.44	2.02	9.45	-10.24	2.45	-1.54	-2.17	**12.3**
3384	552	1,3,7,11,17,21,27,26,33,37,40,41,45,55	2.35	-0.64	2.02	1.93	-1.58	4.54	2.40	5.05	4.95	-2.44	1.11	-1.80	2.84	-9.58	1.06	2.28	-2.17	**12.3**
3385	3436	2,4,3,6,9,11,13,16,20,23,26,30,32,48,52,53,54	0.63	0.92	4.65	-5.99	-4.32	0.25	3.83	-1.37	6.29	-2.31	0.33	-3.71	6.63	1.62	-0.33	2.28	2.94	**12.3**
3386	2699	2,4,3,6,10,13,17,21,27,26,30,32,48,51	1.60	0.92	7.95	-7.01	-8.49	3.68	5.98	-9.80	2.55	-4.68	0.95	-1.80	12.69	2.94	-0.33	2.28	2.94	**12.3**
3387	5132	2,5,19,18,21,28,34,35,37,40,43,50,54	-1.99	1.18	1.15	-9.10	-5.62	3.68	-3.34	-1.44	6.30	6.02	-2.19	3.93	4.94	5.24	-0.33	2.28	1.66	**12.4**
3388	4269	2,4,7,11,17,19,22,25,29,39,41,43,47,49,53,54	0.03	0.14	4.45	-6.41	-2.29	-3.18	3.11	4.37	-2.46	4.92	-1.60	0.11	7.47	10.51	-3.11	-1.54	-2.17	**12.4**
3389	428	1,3,7,11,17,18,20,23,27,28,34,35,37,40,41,45,55	2.36	-0.12	0.61	3.41	1.06	2.82	0.25	7.81	6.89	2.18	0.41	-1.80	-0.29	-10.57	1.06	-1.54	-2.17	**12.4**
3390	2230	1,6,9,11,13,16,20,23,27,28,31,33,37,40,41,45,55	2.61	-0.12	0.58	3.55	0.51	2.82	-0.47	3.00	5.37	2.52	0.58	-1.80	0.13	-5.63	2.45	-1.54	-2.17	**12.4**
3391	5200	2,5,19,21,27,26,33,37,42,49,53,54	-1.91	0.14	1.42	-9.15	-8.33	1.97	-3.34	0.64	4.18	4.34	-1.71	5.84	5.65	5.24	-0.33	6.10	1.66	**12.4**
3392	786	1,3,7,9,10,13,17,19,22,25,29,36,38,43,50,54	-0.52	0.40	-2.73	-7.14	3.61	0.25	0.96	-1.38	0.20	-2.48	-0.57	-1.80	2.78	17.10	1.06	-1.54	4.21	**12.4**
3393	2926	2,4,3,6,10,16,18,19,22,25,29,39,41,40,42,49,53,54	0.43	0.14	3.97	-7.99	-1.44	-3.18	0.96	-5.39	-3.88	5.10	-1.56	0.11	7.19	22.04	-0.33	-1.54	-2.17	**12.5**
3394	605	1,3,7,9,10,12,14,30,31,34,35,37,40,41,44,55	1.95	-1.67	3.83	3.25	6.27	1.11	0.96	-0.06	-3.34	2.76	0.43	-1.80	2.18	-0.69	1.06	-1.54	-2.17	**12.5**
3395	4506	2,4,7,9,10,13,17,19,22,24,29,36,38,40,42,49,53,54	0.35	1.18	-2.21	-4.44	2.29	-0.60	-0.47	0.22	-0.37	-3.33	-0.01	0.11	3.48	16.77	-3.11	-1.54	4.21	**12.5**
3396	4643	2,4,7,9,10,15,23,26,30,32,48,51	1.27	0.40	8.26	-10.28	-8.86	1.97	4.55	-1.95	4.12	-2.10	0.18	-1.80	12.42	2.28	-3.11	2.28	2.94	**12.5**
3397	3589	2,4,3,6,9,11,17,18,20,23,27,28,34,36,39,41,40,42,46,48,51	3.45	0.92	6.54	9.05	-5.58	-1.46	1.68	0.87	-1.13	8.34	-0.14	2.02	3.92	-11.89	-0.33	-1.54	-2.17	**12.5**
3398	4982	2,4,7,9,8,14,30,31,34,36,39,41,43,50,54	3.25	-1.15	12.67	-0.07	1.34	-2.32	5.26	-1.17	-11.16	12.84	-0.76	0.11	9.47	-8.92	-3.11	-1.54	-2.17	**12.6**
3399	981	1,3,7,9,10,16,18,19,22,24,29,36,35,37,42,47,50,54	0.45	0.66	-1.94	-4.57	-0.16	1.11	-0.47	-2.94	0.66	-2.66	-0.13	-1.80	3.98	23.02	1.06	-1.54	-2.17	**12.6**
3400	1397	1,6,10,13,17,19,22,24,29,36,38,40,42,47,50,54	0.40	0.40	-2.18	-4.48	1.98	1.97	-0.47	-6.27	1.61	-2.51	-0.10	-1.80	3.43	15.45	2.45	-1.54	4.21	**12.6**
3401	3125	2,4,3,6,8,14,30,31,34,36,39,41,43,47,49,53,54	3.65	-0.12	12.80	1.05	1.72	-2.32	3.83	-3.89	-13.83	12.66	-0.42	2.02	9.71	-10.24	-0.33	-1.54	-2.17	**12.6**
3402	4086	2,4,7,11,13,16,20,23,27,28,31,33,37,40,41,45,55	2.35	-0.12	0.46	3.85	0.96	1.97	0.25	7.41	5.68	2.47	0.42	-1.80	-0.18	-4.31	-3.11	-1.54	-2.17	**12.6**
3403	3632	2,4,3,6,9,11,17,19,22,24,29,39,41,40,42,49,53,54	1.11	0.92	5.11	-4.11	-4.12	-3.18	1.68	-0.53	-1.02	4.39	-1.07	0.11	8.50	8.86	-0.33	-1.54	-2.17	**12.6**
3404	2892	2,4,3,6,10,16,18,19,22,24,29,36,38,43,50,54	0.18	0.14	-2.37	-4.30	3.47	-0.60	-1.19	-6.67	1.61	-2.79	-0.16	-1.80	3.05	21.71	-0.33	-1.54	4.21	**12.6**
3405	2632	2,4,3,6,10,13,17,18,20,23,27,28,34,38,41,45,55	2.40	0.40	-0.25	2.61	4.73	1.11	-1.19	-0.88	6.76	2.66	0.36	-1.80	-1.34	-5.30	-0.33	-1.54	4.21	**12.6**
3406	384	1,3,7,11,17,18,20,23,26,31,34,36,39,41,40,42,46,48,52,53,54	2.29	0.40	4.09	6.11	-4.22	-2.32	1.68	6.78	1.09	6.16	-0.25	0.11	0.09	-10.57	1.06	2.28	-2.17	**12.6**
3407	4545	2,4,7,9,10,13,17,19,22,25,29,39,41,40,42,47,50,54	0.44	0.92	4.14	-8.06	-2.58	-1.46	3.11	-2.67	-1.21	5.78	-1.82	-1.80	7.58	17.10	-3.11	-1.54	-2.17	**12.6**
3408	4804	2,4,7,9,10,16,18,21,27,26,31,34,36,39,41,40,42,46,48,52,53,54	2.54	1.44	4.70	3.50	-2.79	-1.46	1.68	-1.33	-2.14	3.82	0.08	0.11	2.24	3.26	-3.11	2.28	-2.17	**12.6**
3409	1001	1,3,7,9,10,16,18,19,22,24,29,39,44,55	-2.05	-0.90	7.21	-7.85	-4.03	-3.18	-1.91	-3.07	-0.48	4.88	-1.65	-1.80	7.12	23.02	1.06	-1.54	-2.17	**12.7**
3410	1774	1,6,10,16,20,23,26,31,34,35,37,40,41,45,55	2.44	-0.64	0.32	1.61	0.84	2.82	-1.91	-1.95	6.88	0.49	0.72	-1.80	-0.57	0.96	2.45	2.28	-2.17	**12.8**

		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
3411	4368	2,4,7,9,10,12,14,30,31,34,35,37,42,46,48,52,53,54	2.74	-1.41	4.39	10.24	2.89	-0.60	3.83	0.25	-5.15	1.85	1.17	0.11	-0.01	-0.69	-3.11	-1.54	-2.17	**12.8**
3412	668	1,3,7,9,10,13,17,18,20,23,26,31,34,36,39,41,43,47,46,48,52,53,54	2.57	1.70	3.66	5.00	-4.21	-2.32	0.96	1.83	0.01	6.65	-0.28	0.11	-0.05	-3.98	1.06	2.28	-2.17	**12.8**
3413	1991	1,6,9,11,13,15,23,27,28,31,30,32,48,51	1.55	0.14	8.65	-8.52	-7.86	2.82	4.55	-1.40	3.46	-0.12	0.18	-1.80	12.93	-5.63	2.45	-1.54	2.94	**12.8**
3414	404	1,3,7,11,17,18,20,23,26,33,37,40,41,45,55	2.34	-0.64	0.89	3.17	-1.75	2.82	0.96	7.81	7.10	0.22	0.70	-1.80	0.41	-10.57	1.06	2.28	-2.17	**12.8**
3415	4824	2,4,7,9,10,16,18,21,27,26,33,37,40,41,45,55	2.58	0.40	1.50	0.56	-0.32	3.68	0.96	-0.31	3.87	-2.12	1.02	-1.80	2.56	3.26	-3.11	2.28	-2.17	**12.8**
3416	2551	2,4,3,6,10,13,17,18,20,23,26,30,32,48,51	1.58	0.92	6.82	-5.77	-8.66	1.97	4.55	-7.04	4.69	-2.02	0.53	-1.80	10.26	1.95	-0.33	2.28	2.94	**12.9**
3417	1418	1,6,10,13,17,19,22,25,29,36,35,37,40,43,47,46,48,52,53,54	2.69	0.40	4.45	-0.85	-4.12	1.11	2.40	-7.65	-4.26	-3.36	0.90	0.11	6.52	15.78	2.45	-1.54	-2.17	**12.9**
3418	1168	1,3,7,9,10,16,20,23,27,28,31,30,32,48,52,53,54	0.45	-0.12	3.60	-8.64	-4.01	1.11	3.83	-1.13	4.11	0.08	-0.16	-3.71	5.47	9.52	1.06	-1.54	2.94	**12.9**
3419	2921	2,4,3,6,10,16,18,19,22,25,29,36,38,43,47,49,53,54	-0.17	0.40	-2.68	-5.88	5.46	-0.60	-1.19	-4.50	-2.47	-2.63	-0.28	0.11	2.92	22.04	-0.33	-1.54	4.21	**12.9**
3420	2037	1,6,9,11,13,16,18,19,22,24,29,36,35,37,40,43,47,49,53,54	0.83	1.44	-1.17	-2.47	0.14	1.11	-1.19	-0.70	-0.90	-3.44	0.31	0.11	4.96	15.12	2.45	-1.54	-2.17	**12.9**
3421	3176	2,4,3,6,9,11,13,12,14,30,31,34,38,40,42,49,53,54	0.44	-0.90	-1.75	7.04	11.22	0.25	0.96	3.96	-2.59	2.34	0.30	0.11	-2.24	-8.59	-0.33	-1.54	4.21	**12.9**
3422	5209	2,5,19,21,28,31,33,37,40,43,47,49,53,54	-1.73	1.18	1.16	-8.62	-7.08	3.68	-3.34	0.64	2.77	6.01	-1.93	5.84	5.47	5.24	-0.33	2.28	1.66	**12.9**
3423	3492	2,4,3,6,9,11,13,16,20,23,27,28,34,35,37,40,41,45,55	2.70	0.92	0.72	4.49	2.81	1.97	-1.19	2.60	6.57	2.30	0.56	-1.80	-0.05	-5.63	-0.33	-1.54	-2.17	**12.9**
3424	2399	1,6,9,11,17,19,22,25,29,36,38,40,42,47,50,54	-0.19	0.14	-1.95	-5.13	3.86	1.97	0.96	-1.22	0.96	-2.38	-0.37	-1.80	3.76	9.19	2.45	-1.54	4.21	**12.9**
3425	4473	2,4,7,9,10,13,17,18,20,23,27,28,34,36,39,41,40,42,46,48,51	3.30	0.92	5.88	7.01	-5.85	-1.46	1.68	0.72	-1.90	8.55	-0.34	2.02	3.21	-3.98	-3.11	-1.54	-2.17	**12.9**
3426	171	1,3,7,11,13,16,18,19,22,25,29,36,35,37,42,47,50,54	-0.27	0.40	-1.81	-4.82	1.93	1.11	0.96	2.11	-0.02	-2.54	-0.39	-1.80	3.96	16.77	1.06	-1.54	-2.17	**13.0**
3427	2017	1,6,9,11,13,15,23,27,28,34,36,39,41,43,47,46,48,51	3.28	0.40	8.02	5.05	-5.79	-0.60	0.96	1.56	-2.06	8.51	-0.32	2.02	6.09	-12.87	2.45	-1.54	-2.17	**13.0**
3428	4516	2,4,7,9,10,13,17,19,22,24,29,39,41,40,42,49,53,54	0.95	0.92	4.45	-6.15	-4.39	-3.18	1.68	-0.68	-1.78	4.60	-1.27	0.11	7.79	16.77	-3.11	-1.54	-2.17	**13.0**
3429	3847	2,4,7,11,13,15,23,27,28,31,30,32,48,51	1.30	0.14	8.53	-8.23	-7.41	1.97	5.26	3.01	3.78	-0.18	0.03	-1.80	12.63	-4.31	-3.11	-1.54	2.94	**13.0**
3430	3627	2,4,3,6,9,11,17,19,22,24,29,36,38,43,47,49,53,54	0.51	1.18	-1.54	-2.00	2.77	-0.60	-0.47	0.37	0.39	-3.34	0.20	0.11	4.22	8.86	-0.33	-1.54	4.21	**13.0**
3431	1194	1,3,7,9,10,16,20,23,27,28,34,36,39,41,43,47,46,48,52,53,54	2.17	0.14	2.97	4.93	-1.95	-2.32	0.25	1.83	-1.41	8.72	-0.66	0.11	-1.38	2.28	1.06	-1.54	-2.17	**13.0**
3432	3001	2,4,3,6,10,16,18,21,28,34,36,39,41,40,42,46,48,51	3.12	0.40	6.76	6.10	-4.39	0.25	1.68	-6.85	-4.39	5.22	0.16	2.02	5.03	1.95	-0.33	-1.54	-2.17	**13.0**
3433	1429	1,6,10,13,17,19,22,25,29,36,38,41,44,55	1.16	-0.90	3.20	-8.05	2.87	-0.60	-0.47	-6.89	-1.16	-2.55	0.01	-1.80	7.31	15.78	2.45	-1.54	4.21	**13.0**
3434	1407	1,6,10,13,17,19,22,24,29,39,41,40,42,47,50,54	1.01	0.14	4.48	-6.19	-4.69	-0.60	1.68	-7.17	0.20	5.42	-1.37	-1.80	7.74	15.45	2.45	-1.54	-2.17	**13.0**
3435	2814	2,4,3,6,10,15,23,26,31,34,38,41,45,55	2.36	0.40	1.68	-1.50	3.56	1.11	-1.91	-0.60	7.25	0.59	0.45	-1.80	1.56	-6.29	-0.33	2.28	4.21	**13.1**
3436	191	1,3,7,11,13,16,18,19,22,25,29,39,44,55	-2.77	-1.15	7.34	-8.10	-1.93	-3.18	-0.47	1.97	-1.16	5.01	-1.91	-1.80	7.10	16.77	1.06	-1.54	-2.17	**13.1**
3437	3752	2,4,3,6,9,11,17,21,28,34,38,41,45,55	2.14	-0.12	1.34	2.89	5.11	2.82	0.96	1.31	5.72	-1.04	0.88	-1.80	1.40	-10.90	-0.33	-1.54	4.21	**13.1**
3438	3893	2,4,7,11,13,16,18,19,22,24,29,36,35,37,40,43,47,49,53,54	0.57	1.44	-1.29	-2.17	0.58	0.25	-0.47	3.70	-0.59	-3.49	0.16	0.11	4.65	16.44	-3.11	-1.54	-2.17	**13.1**
3439	4255	2,4,7,11,17,19,22,25,29,36,38,40,42,47,50,54	-0.44	0.14	-2.07	-4.83	4.31	1.11	1.68	3.18	1.28	-2.44	-0.52	-1.80	3.45	10.51	-3.11	-1.54	4.21	**13.1**
3440	1664	1,6,10,16,18,19,22,25,29,36,38,40,42,49,53,54	-0.35	-0.64	-2.78	-7.10	4.73	0.25	-1.19	-4.10	-2.47	-2.86	-0.30	0.11	2.66	22.04	2.45	-1.54	4.21	**13.1**
3441	2938	2,4,3,6,10,16,18,21,27,26,31,34,35,37,40,41,45,55	2.88	1.44	1.72	1.19	1.52	3.68	-0.47	-5.11	4.74	-2.14	1.18	-1.80	2.60	1.95	-0.33	2.28	-2.17	**13.1**
3442	2910	2,4,3,6,10,16,18,19,22,25,29,36,35,37,42,46,48,52,53,54	2.49	0.14	4.25	-0.63	-2.61	-1.46	1.68	-8.05	-4.26	-3.52	0.85	0.11	6.15	22.04	-0.33	-1.54	-2.17	**13.2**
3443	1610	1,6,10,15,23,27,28,34,36,39,45,55	1.26	-0.90	6.75	-0.76	-2.59	1.11	-2.62	-1.10	4.43	14.40	-1.60	-1.80	4.12	-6.29	2.45	-1.54	-2.17	**13.2**
3444	3873	2,4,7,11,13,15,23,27,28,34,36,39,41,43,47,46,48,51	3.02	0.40	7.90	5.35	-5.34	-1.46	1.68	5.96	-1.74	8.46	-0.47	2.02	5.78	-11.56	-3.11	-1.54	-2.17	**13.2**
3445	2774	2,4,3,6,10,13,17,21,28,34,36,39,45,55	1.34	0.14	6.33	2.81	-1.77	1.97	-0.47	-4.54	3.20	11.02	-0.92	-1.80	4.22	-4.31	-0.33	-1.54	-2.17	**13.2**
3446	3448	2,4,3,6,9,11,13,16,20,23,26,31,34,36,39,41,40,42,46,48,52,53,54	2.63	1.44	4.20	7.19	-2.47	-3.18	0.25	1.58	0.77	6.27	-0.10	0.11	0.33	-5.63	-0.33	2.28	-2.17	**13.2**
3447	2711	2,4,3,6,10,13,17,21,27,26,31,34,36,39,41,40,42,46,48,51	3.59	1.44	7.50	6.16	-6.65	0.25	2.40	-6.85	-2.97	3.90	0.52	2.02	6.39	-4.31	-0.33	2.28	-2.17	**13.2**
3448	2152	1,6,9,11,13,16,18,21,28,34,35,37,40,41,45,55	2.46	0.40	1.70	2.42	2.47	4.54	0.25	0.24	4.43	-1.14	1.00	-1.80	2.13	-4.64	2.45	-1.54	-2.17	**13.2**
3449	5135	2,5,19,18,21,28,34,35,37,42,47,50,54	-1.96	0.92	1.16	-8.65	-5.37	3.68	-3.34	-1.44	6.30	6.32	-2.17	3.93	4.99	5.24	-0.33	2.28	1.66	**13.2**
3450	536	1,3,7,11,17,21,27,26,31,34,36,39,41,43,47,46,48,52,53,54	2.31	0.66	5.24	5.28	-3.83	-0.60	3.11	4.02	-1.06	3.70	0.17	0.11	2.56	-9.58	1.06	2.28	-2.17	**13.3**
3451	2370	1,6,9,11,17,19,22,24,29,36,38,40,42,49,53,54	0.33	0.14	-1.64	-3.22	2.05	0.25	-0.47	0.77	0.39	-3.57	0.18	0.11	3.96	8.86	2.45	-1.54	4.21	**13.3**
3452	3616	2,4,3,6,9,11,17,19,22,24,29,36,35,37,42,46,48,52,53,54	3.17	0.92	5.39	3.26	-5.29	-1.46	2.40	-3.18	-1.40	-4.23	1.34	0.11	7.46	8.86	-0.33	-1.54	-2.17	**13.3**
3453	142	1,3,7,11,13,16,18,19,22,24,29,36,35,37,42,49,53,54	0.25	0.40	-1.50	-2.91	0.13	-0.60	-0.47	4.10	-0.59	-3.72	0.16	0.11	4.16	16.44	1.06	-1.54	-2.17	**13.3**
3454	2830	2,4,3,6,10,15,23,27,28,31,30,32,46,49,53,54	2.98	0.92	1.92	-6.65	1.99	0.25	1.68	-3.96	3.35	0.82	0.53	0.11	7.40	0.96	-0.33	-1.54	2.94	**13.4**
3455	506	1,3,7,11,17,19,22,25,29,36,38,43,50,54	-0.80	-0.64	-2.28	-5.62	3.82	0.25	1.68	3.58	1.28	-2.77	-0.54	-1.80	2.95	10.51	1.06	-1.54	4.21	**13.4**
3456	4778	2,4,7,9,10,16,18,19,22,25,29,36,38,43,50,54	-0.57	-0.12	-2.80	-7.00	5.08	-0.60	0.25	-1.78	0.20	-2.45	-0.63	-1.80	2.67	23.35	-3.11	-1.54	4.21	**13.4**
3457	4655	2,4,7,9,10,15,23,26,31,34,36,39,41,40,42,46,48,51	3.26	0.92	7.81	2.89	-7.02	-1.46	0.96	1.00	-1.40	6.48	-0.25	2.02	6.12	-4.97	-3.11	2.28	-2.17	**13.4**
3458	3468	2,4,3,6,9,11,13,16,20,23,26,33,37,40,41,45,55	2.68	0.40	0.99	4.24	-0.01	1.97	-0.47	2.60	6.78	0.33	0.85	-1.80	0.66	-5.63	-0.33	2.28	-2.17	**13.4**
3459	2409	1,6,9,11,17,19,22,25,29,39,41,40,42,47,50,54	0.42	-0.12	4.71	-6.84	-2.82	-0.60	3.11	-2.12	-0.45	5.55	-1.64	-1.80	8.07	9.19	2.45	-1.54	-2.17	**13.4**
3460	4008	2,4,7,11,13,16,18,21,28,34,35,37,40,41,45,55	2.21	0.40	1.58	2.72	2.92	3.68	0.96	4.65	4.74	-1.20	0.85	-1.80	1.82	-3.32	-3.11	-1.54	-2.17	**13.4**
3461	794	1,3,7,9,10,13,17,19,22,25,29,39,41,43,50,54	0.08	0.66	3.93	-8.85	-3.07	-2.32	3.11	-2.27	-1.21	5.45	-1.84	-1.80	7.09	17.10	1.06	-1.54	-2.17	**13.4**
3462	4511	2,4,7,9,10,13,17,19,22,24,29,36,38,43,47,49,53,54	0.35	1.18	-2.20	-4.04	2.51	-0.60	-0.47	0.22	-0.37	-3.13	0.00	0.11	3.52	16.77	-3.11	-1.54	4.21	**13.4**
3463	737	1,3,7,9,10,13,17,19,22,24,29,36,35,37,40,41,44,55	2.23	0.66	4.17	-5.78	-2.17	0.25	-0.47	-3.65	-0.36	-3.12	0.40	-1.80	8.94	16.77	1.06	-1.54	-2.17	**13.4**
3464	5112	2,5,19,18,21,27,26,33,37,42,49,53,54	-1.79	0.66	1.51	-9.15	-8.33	1.97	-3.34	0.64	4.18	4.34	-1.70	5.84	5.91	5.24	-0.33	6.10	1.66	**13.4**
3465	3315	2,4,3,6,9,11,13,16,18,19,22,25,29,36,35,37,40,41,44,55	1.89	0.92	4.44	-5.36	1.45	-0.60	-0.47	-3.80	-1.35	-2.88	0.25	-1.80	9.34	15.45	-0.33	-1.54	-2.17	**13.4**

Table F-3: Weighted, Sorted Z-scores for All Routes

		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
3466	4636	2,4,7,9,10,13,17,21,28,34,38,41,45,55	1.98	-0.12	0.68	0.85	4.85	2.82	0.96	1.16	4.96	-0.84	0.68	-1.80	0.69	-2.99	-3.11	-1.54	4.21	**13.5**
3467	4226	2,4,7,11,17,19,22,24,29,36,38,40,42,49,53,54	0.07	0.14	-1.76	-2.92	2.50	-0.60	0.25	5.17	0.71	-3.62	0.03	0.11	3.65	10.18	-3.11	-1.54	4.21	**13.5**
3468	2184	1,6,9,11,13,16,20,23,26,30,32,48,52,53,54	0.46	-0.12	4.56	-6.81	-4.82	1.11	3.83	-0.98	6.29	-2.34	0.32	-3.71	6.41	1.62	2.45	2.28	2.94	**13.5**
3469	1447	1,6,10,13,17,21,27,26,30,32,48,51	1.42	-0.12	7.86	-7.83	-9.00	4.54	5.98	-9.40	2.55	-4.71	0.93	-1.80	12.47	2.94	2.45	2.28	2.94	**13.5**
3470	3567	2,4,3,6,9,11,17,18,20,23,27,28,31,30,32,48,51	1.74	0.92	7.19	-4.12	-7.43	1.97	5.26	-2.08	4.39	-0.10	0.37	-1.80	10.81	-4.64	-0.33	-1.54	2.94	**13.5**
3471	1230	1,3,7,9,8,14,30,31,34,38,40,42,46,48,52,53,54	2.51	-1.93	10.81	3.85	3.63	-0.60	5.26	0.13	-12.57	-0.04	1.64	2.02	4.03	-8.92	1.06	-1.54	4.21	**13.5**
3472	1082	1,3,7,9,10,16,18,21,28,31,33,37,40,41,45,55	2.43	0.40	1.02	0.35	0.47	4.54	0.96	0.09	2.46	-0.68	0.80	-1.80	1.90	3.26	1.06	-1.54	-2.17	**13.6**
3473	4265	2,4,7,11,17,19,22,25,29,39,41,40,42,47,50,54	0.16	-0.12	4.59	-6.55	-2.37	-1.46	3.83	2.28	-0.14	5.49	-1.79	-1.80	7.76	10.51	-3.11	-1.54	-2.17	**13.6**
3474	1674	1,6,10,16,18,19,22,25,29,39,41,40,42,49,53,54	0.26	-0.90	3.88	-8.82	-1.94	-2.32	0.96	-4.99	-3.88	5.07	-1.57	0.11	6.97	22.04	2.45	-1.54	-2.17	**13.6**
3475	2900	2,4,3,6,10,16,18,19,22,24,29,39,41,43,50,54	0.78	0.40	4.29	-6.02	-3.21	-3.18	0.96	-7.57	0.20	5.14	-1.43	-1.80	7.36	21.71	-0.33	-1.54	-2.17	**13.6**
3476	4040	2,4,7,11,13,16,20,23,26,30,32,48,52,53,54	0.20	-0.12	4.44	-6.52	-4.37	0.25	4.55	3.43	6.61	-2.40	0.17	-3.71	6.10	2.94	-3.11	2.28	2.94	**13.7**
3477	2563	2,4,3,6,10,13,17,18,20,23,26,31,34,36,39,41,40,42,46,48,51	3.58	1.44	6.37	7.40	-6.82	-1.46	0.96	-4.09	-0.83	6.56	0.10	2.02	3.96	-5.30	-0.33	2.28	-2.17	**13.7**
3478	4500	2,4,7,9,10,13,17,19,22,24,29,36,35,37,42,46,48,52,53,54	3.01	0.92	4.73	1.21	-5.55	-1.46	2.40	-3.34	-2.16	-4.02	1.14	0.11	6.75	16.77	-3.11	-1.54	-2.17	**13.7**
3479	3593	2,4,3,6,9,11,17,18,20,23,27,28,34,36,39,41,43,47,46,48,51	3.46	1.18	6.55	9.45	-5.36	-1.46	1.68	0.87	-1.13	8.54	-0.13	2.02	3.96	-11.89	-0.33	-1.54	-2.17	**13.7**
3480	2337	1,6,9,11,17,18,20,23,27,28,34,36,39,41,40,42,46,48,51	3.28	-0.12	6.45	8.23	-6.09	-0.60	1.68	1.27	-1.13	8.31	-0.15	2.02	3.70	-11.89	2.45	-1.54	-2.17	**13.7**
3481	2529	2,4,3,6,10,12,14,30,31,34,38,41,44,55	1.71	-2.19	3.41	3.97	10.15	-0.60	0.25	-3.80	-2.39	2.94	0.42	-1.80	1.30	-2.01	-0.33	-1.54	4.21	**13.7**
3482	1873	1,6,8,14,30,31,34,36,39,41,43,47,49,53,54	3.47	-1.15	12.71	0.23	1.22	-1.46	3.83	-3.49	-13.83	12.63	-0.43	2.02	9.49	-10.24	2.45	-1.54	-2.17	**13.7**
3483	2380	1,6,9,11,17,19,22,24,29,39,41,40,42,49,53,54	0.93	-0.12	5.02	-4.93	-4.63	-2.32	1.68	-0.13	-1.02	4.36	-1.09	0.11	8.27	8.86	2.45	-1.54	-2.17	**13.7**
3484	1640	1,6,10,16,18,19,22,24,29,36,38,43,50,54	0.00	-0.90	-2.46	-5.13	2.96	0.25	-1.19	-6.27	1.61	-2.82	-0.17	-1.80	2.83	21.71	2.45	-1.54	4.21	**13.8**
3485	1380	1,6,10,13,17,18,20,23,27,28,34,38,41,45,55	2.22	-0.64	-0.34	1.79	4.23	1.97	-1.19	-0.48	6.76	2.63	0.35	-1.80	-1.57	-5.30	2.45	-1.54	4.21	**13.8**
3486	388	1,3,7,11,17,18,20,23,26,31,34,36,39,41,43,47,46,48,52,53,54	2.29	0.66	4.11	6.51	-4.00	-2.32	1.68	6.78	1.09	6.36	-0.24	0.11	0.13	-10.57	1.06	2.28	-2.17	**13.8**
3487	3181	2,4,3,6,9,11,13,12,14,30,31,34,38,43,47,49,53,54	0.44	-0.90	-1.73	7.44	11.44	0.25	0.96	3.96	-2.59	2.53	0.31	0.11	-2.20	-8.59	-0.33	-1.54	4.21	**13.8**
3488	4808	2,4,7,9,10,16,18,21,27,26,31,34,36,39,41,43,47,46,48,52,53,54	2.54	1.70	4.72	3.90	-2.57	-1.46	1.68	-1.33	-2.14	4.02	0.08	0.11	2.27	3.26	-3.11	2.28	-2.17	**13.8**
3489	2508	2,4,3,6,10,12,14,30,31,34,35,37,40,43,47,46,48,52,53,54	3.24	-0.64	4.66	11.17	3.16	1.11	3.11	-4.56	-5.49	2.13	1.31	0.11	0.51	-2.01	-0.33	-1.54	-2.17	**13.8**
3490	3121	2,4,3,6,8,14,30,31,34,36,39,41,40,42,47,50,54	3.77	-0.38	12.94	0.91	1.64	-0.60	4.55	-5.98	-11.51	13.23	-0.61	0.11	10.00	-10.24	-0.33	-1.54	-2.17	**13.8**
3491	2929	2,4,3,6,10,16,18,19,22,25,29,39,41,43,47,49,53,54	0.44	0.66	3.98	-7.60	-1.22	-3.18	0.96	-5.39	-3.88	5.30	-1.55	0.11	7.23	22.04	-0.33	-1.54	-2.17	**13.8**
3492	3348	2,4,3,6,9,11,13,16,18,21,27,26,30,32,48,52,53,54	0.90	1.96	5.96	-7.23	-4.14	1.97	5.26	-4.14	4.14	-4.97	0.78	-3.71	9.58	2.61	-0.33	2.28	2.94	**13.8**
3493	3089	2,4,3,6,10,16,20,23,27,28,34,36,39,41,40,42,46,48,51	3.18	-0.12	5.68	7.34	-4.56	-1.46	0.25	-4.09	-2.24	8.63	-0.29	2.02	2.63	0.96	-0.33	-1.54	-2.17	**13.9**
3494	4193	2,4,7,11,17,18,20,23,27,28,34,36,39,41,40,42,46,48,51	3.02	-0.12	6.33	8.52	-5.64	-1.46	2.40	5.68	-0.82	8.26	-0.30	2.02	3.39	-10.57	-3.11	-1.54	-2.17	**13.9**
3495	5121	2,5,19,18,21,28,31,33,37,40,43,47,49,53,54	-1.61	1.70	1.25	-8.62	-7.08	3.68	-3.34	0.64	2.77	6.01	-1.92	5.84	5.73	5.24	-0.33	2.28	1.66	**13.9**
3496	4451	2,4,7,9,10,13,17,18,20,23,27,28,31,30,32,48,51	1.59	0.92	6.53	-6.17	-7.69	1.97	5.26	-2.24	3.62	0.11	0.17	-1.80	10.10	3.26	-3.11	-1.54	2.94	**13.9**
3497	4236	2,4,7,11,17,19,22,24,29,39,41,40,42,49,53,54	0.67	-0.12	4.90	-4.64	-4.18	-3.18	2.40	4.28	-0.71	4.31	-1.24	0.11	7.96	10.18	-3.11	-1.54	-2.17	**13.9**
3498	4383	2,4,7,9,10,12,14,30,31,34,38,40,42,47,50,54	0.21	-1.15	-2.40	4.85	10.88	1.97	1.68	1.72	-1.03	3.31	-0.16	-1.80	-2.96	-0.69	-3.11	-1.54	4.21	**14.0**
3499	1299	1,6,10,13,17,18,20,23,26,30,32,48,51	1.41	-0.12	6.73	-6.60	-9.17	2.82	4.55	-6.64	4.69	-2.05	0.51	-1.80	10.04	1.95	2.45	2.28	2.94	**14.0**
3500	3635	2,4,3,6,9,11,17,19,22,24,29,39,41,43,47,49,53,54	1.11	1.44	5.12	-3.71	-3.90	-3.18	1.68	-0.53	-1.02	4.59	-1.07	0.11	8.53	8.86	-0.33	-1.54	-2.17	**14.0**
3501	4394	2,4,7,9,10,12,14,30,33,37,40,43,47,46,48,52,53,54	2.95	-1.15	4.44	10.53	1.32	1.11	4.55	0.25	-6.36	2.15	1.15	0.11	0.48	-0.69	-3.11	-1.54	-2.17	**14.0**
3502	2979	2,4,3,6,10,16,18,21,28,31,30,32,48,51	1.40	0.40	7.41	-7.08	-6.24	3.68	5.26	-9.80	1.13	-3.22	0.67	-1.80	11.92	9.19	-0.33	-1.54	2.94	**14.0**
3503	1669	1,6,10,16,18,19,22,25,29,36,38,43,47,49,53,54	-0.34	-0.64	-2.77	-6.70	4.95	0.25	-1.19	-4.10	-2.47	-2.66	-0.30	0.11	2.69	22.04	2.45	-1.54	4.21	**14.0**
3504	1924	1,6,9,11,13,12,14,30,31,34,38,40,42,49,53,54	0.26	-1.93	-1.84	6.21	10.72	1.11	0.96	4.36	-2.59	2.31	0.29	0.11	-2.46	-8.59	2.45	-1.54	4.21	**14.0**
3505	2240	1,6,9,11,13,16,20,23,27,28,34,35,37,40,41,45,55	2.52	-0.12	0.63	3.66	2.30	2.82	-1.19	3.00	6.57	2.27	0.55	-1.80	-0.27	-5.63	2.45	-1.54	-2.17	**14.1**
3506	4477	2,4,7,9,10,13,17,18,20,23,27,28,34,36,39,41,43,47,46,48,51	3.31	1.18	5.89	7.41	-5.63	-1.46	1.68	0.72	-1.90	8.75	-0.33	2.02	3.25	-3.98	-3.11	-1.54	-2.17	**14.1**
3507	3280	2,4,3,6,9,11,13,15,23,27,28,34,38,41,45,55	2.44	0.66	2.00	0.55	5.02	1.11	-1.19	4.36	6.95	2.37	0.29	-1.80	1.86	-12.87	-0.33	-1.54	4.21	**14.1**
3508	953	1,3,7,9,10,15,23,27,28,34,36,39,41,40,42,46,48,51	3.16	0.40	7.37	2.69	-6.23	-0.60	0.96	1.40	-2.82	8.52	-0.55	2.02	5.42	-4.97	1.06	-1.54	-2.17	**14.1**
3509	3005	2,4,3,6,10,16,18,21,28,34,36,39,41,43,47,46,48,51	3.12	0.66	6.77	6.50	-4.17	0.25	1.68	-6.85	-4.39	5.42	0.17	2.02	5.07	1.95	-0.33	-1.54	-2.17	**14.1**
3510	2375	1,6,9,11,17,19,22,24,29,36,38,43,47,49,53,54	0.33	0.14	-1.63	-2.82	2.27	0.25	-0.47	0.77	0.39	-3.37	0.19	0.11	4.00	8.86	2.45	-1.54	4.21	**14.2**
3511	1749	1,6,10,16,18,21,28,34,36,39,41,40,42,46,48,51	2.94	-0.64	6.67	5.27	-4.90	1.11	1.68	-6.45	-4.39	5.19	0.15	2.02	4.81	1.95	2.45	-1.54	-2.17	**14.2**
3512	1236	1,3,7,9,8,14,30,31,34,38,43,47,46,48,52,53,54	2.52	-2.19	10.83	4.25	3.85	-0.60	5.26	0.13	-12.57	0.16	1.65	2.02	4.07	-8.92	1.06	-1.54	4.21	**14.2**
3513	5196	2,5,19,21,27,26,33,37,40,43,50,54	-1.81	0.66	1.57	-9.34	-8.44	3.68	-2.62	-1.44	6.51	4.80	-1.92	3.93	5.93	5.24	-0.33	6.10	1.66	**14.2**
3514	1562	1,6,10,15,23,26,31,34,38,41,45,55	2.18	-0.64	1.60	-2.32	3.05	1.97	-1.91	-0.20	7.25	0.56	0.44	-1.80	1.34	-6.29	2.45	2.28	4.21	**14.2**
3515	2500	1,6,9,11,17,21,28,34,38,41,45,55	1.96	-1.15	1.25	2.07	4.61	3.68	0.96	1.71	5.72	-1.07	0.87	-1.80	1.18	-10.90	2.45	-1.54	4.21	**14.2**
3516	3780	2,4,7,11,13,12,14,30,31,34,38,40,42,49,53,54	0.00	-1.93	-1.96	6.51	11.16	0.25	1.68	8.76	-2.28	2.25	0.14	0.11	-2.77	-7.27	-3.11	-1.54	4.21	**14.2**
3517	634	1,3,7,9,10,12,14,30,31,34,38,43,50,54	-0.15	-1.93	-2.61	4.06	10.39	1.11	1.68	2.12	-1.03	2.97	-0.18	-1.80	-3.45	-0.69	1.06	-1.54	4.21	**14.2**
3518	4096	2,4,7,11,13,16,20,23,27,28,34,35,37,40,41,45,55	2.27	-0.12	0.51	3.96	2.75	1.97	-0.47	7.41	6.89	2.21	0.40	-1.80	-0.58	-4.31	-3.11	-1.54	-2.17	**14.3**
3519	1686	1,6,10,16,18,21,27,26,31,34,35,37,40,41,45,55	2.71	0.40	1.63	0.37	1.02	4.54	-0.47	-4.72	4.74	-2.17	1.16	-1.80	2.38	1.95	2.45	2.28	-2.17	**14.3**
3520	1658	1,6,10,16,18,19,22,25,29,36,35,37,42,46,48,52,53,54	2.32	-0.90	4.16	-1.45	-3.11	-0.60	1.68	-7.65	-4.26	-3.55	0.84	0.11	5.93	22.04	2.45	-1.54	-2.17	**14.3**

Table F-3: Weighted, Sorted Z-scores for All Routes

Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
3521	1522	1,6,10,13,17,21,28,34,36,39,45,55	1.16	-0.90	6.24	1.98	-2.28	2.82	-0.47	-4.14	3.20	10.99	-0.94	-1.80	4.00	-4.31	2.45	-1.54	-2.17	**14.3**
3522	3160	2,4,3,6,9,11,13,12,14,30,31,34,35,37,42,46,48,52,53,54	3.10	-0.90	5.20	12.69	3.37	-0.60	3.83	0.40	-4.38	1.64	1.44	0.11	1.03	-8.59	-0.33	-1.54	-2.17	**14.3**
3523	3452	2,4,3,6,9,11,13,16,20,23,26,31,34,36,39,41,43,47,46,48,52,53,54	2.64	1.70	4.21	7.58	-2.25	-3.18	0.25	1.58	0.77	6.47	-0.09	0.11	0.37	-5.63	-0.33	2.28	-2.17	**14.3**
3524	2715	2,4,3,6,10,13,17,21,27,26,31,34,36,39,41,43,47,46,48,51	3.60	1.70	7.52	6.56	-6.43	0.25	2.40	-6.85	-2.97	4.10	0.52	2.02	6.42	-4.31	-0.33	2.28	-2.17	**14.3**
3525	2196	1,6,9,11,13,16,20,23,26,31,34,36,39,41,40,42,46,48,52,53,54	2.45	0.40	4.11	6.36	-2.98	-2.32	0.25	1.98	0.77	6.24	-0.11	0.11	0.11	-5.63	2.45	2.28	-2.17	**14.3**
3526	1459	1,6,10,13,17,21,27,26,31,34,36,39,41,40,42,46,48,51	3.42	0.40	7.41	5.34	-7.15	1.11	2.40	-6.45	-2.97	3.87	0.50	2.02	6.16	-4.31	2.45	2.28	-2.17	**14.3**
3527	3199	2,4,3,6,9,11,13,15,23,26,30,32,48,51	1.62	1.18	9.07	-7.83	-8.38	1.97	4.55	-1.80	4.88	-2.31	0.45	-1.80	13.46	-5.63	-0.33	2.28	2.94	**14.3**
3528	514	1,3,7,11,17,19,22,25,29,39,41,43,50,54	-0.20	-0.38	4.38	-7.34	-2.86	-2.32	3.83	2.68	-0.14	5.16	-1.80	-1.80	7.26	10.51	1.06	-1.54	-2.17	**14.3**
3529	4231	2,4,7,11,17,19,22,24,29,36,38,43,47,49,53,54	0.07	0.14	-1.75	-2.52	2.72	-0.60	0.25	5.17	0.71	-3.42	0.04	0.11	3.69	10.18	-3.11	-1.54	4.21	**14.3**
3530	4786	2,4,7,9,10,16,18,19,22,25,29,39,41,43,50,54	0.04	0.14	3.86	-8.71	-1.60	-3.18	2.40	-2.67	-1.21	5.48	-1.90	-1.80	6.98	23.35	-3.11	-1.54	-2.17	**14.3**
3531	457	1,3,7,11,17,19,22,24,29,36,35,37,40,41,44,55	1.95	-0.38	4.62	-4.26	-1.96	0.25	0.25	1.31	0.72	-3.41	0.43	-1.80	9.11	10.18	1.06	-1.54	-2.17	**14.4**
3532	4729	2,4,7,9,10,16,18,19,22,24,29,36,35,37,40,41,44,55	2.18	0.14	4.09	-5.64	-0.70	-0.60	-1.19	-4.05	-0.36	-3.09	0.34	-1.80	8.83	23.02	-3.11	-1.54	-2.17	**14.4**
3533	4978	2,4,7,9,8,14,30,31,34,36,39,41,40,42,49,53,54	3.54	-1.15	12.81	0.13	1.45	-2.32	4.55	0.91	-13.49	12.38	-0.53	2.02	9.82	-8.92	-3.11	-1.54	-2.17	**14.4**
3534	4519	2,4,7,9,10,13,17,19,22,24,29,39,41,43,47,49,53,54	0.96	1.44	4.46	-5.76	-4.17	-3.18	1.68	-0.68	-1.78	4.80	-1.27	0.11	7.82	16.77	-3.11	-1.54	-2.17	**14.4**
3535	262	1,3,7,11,13,16,18,21,28,34,36,39,41,40,42,46,48,52,53,54	2.03	0.40	4.63	5.21	-1.57	-0.60	2.40	4.02	-2.47	4.82	-0.12	0.11	1.50	-3.32	1.06	-1.54	-2.17	**14.4**
3536	4356	2,4,7,11,17,21,28,34,38,41,45,55	1.71	-1.15	1.13	2.36	5.06	2.82	1.68	6.12	6.04	-1.13	0.72	-1.80	0.87	-9.58	-3.11	-1.54	4.21	**14.4**
3537	1170	1,3,7,9,10,16,20,23,27,28,31,33,37,40,41,45,55	2.50	-0.12	-0.05	1.59	0.29	2.82	-0.47	2.85	4.60	2.73	0.35	-1.80	-0.51	2.28	1.06	-1.54	-2.17	**14.4**
3538	2364	1,6,9,11,17,19,22,24,29,36,35,37,42,46,48,52,53,54	2.99	-0.12	5.30	2.43	-5.79	-0.60	2.40	-2.78	-1.40	-4.26	1.33	0.11	7.24	8.86	2.45	-1.54	-2.17	**14.4**
3539	642	1,3,7,9,10,12,14,30,33,37,42,46,48,52,53,54	2.62	-1.93	4.23	9.79	0.86	0.25	4.55	0.65	-6.36	1.92	1.15	0.11	-0.01	-0.69	1.06	-1.54	-2.17	**14.5**
3540	1578	1,6,10,15,23,27,28,31,30,32,46,49,53,54	2.80	-0.12	1.83	-7.48	1.48	1.11	1.68	-3.56	3.35	0.79	0.52	0.11	7.18	0.96	2.45	-1.54	2.94	**14.5**
3541	2742	2,4,3,6,10,13,17,21,28,31,30,32,46,49,53,54	2.88	0.92	1.41	-3.91	2.30	1.97	3.83	-7.01	2.12	-2.59	1.20	0.11	7.28	2.94	-0.33	-1.54	2.94	**14.5**
3542	4052	2,4,7,11,13,16,20,23,26,31,34,36,39,41,40,42,46,48,52,53,54	2.20	0.40	3.99	6.66	-2.53	-3.18	0.96	6.39	1.09	6.19	-0.26	0.11	-0.20	-4.31	-3.11	2.28	-2.17	**14.5**
3543	4659	2,4,7,9,10,15,23,26,31,34,36,39,41,43,47,46,48,51	3.27	1.18	7.83	3.29	-6.80	-1.46	0.96	1.00	-1.40	6.68	-0.24	2.02	6.16	-4.97	-3.11	2.28	-2.17	**14.5**
3544	2216	1,6,9,11,13,16,20,23,26,33,37,40,41,45,55	2.50	-0.64	0.90	3.42	-0.51	2.82	-0.47	3.00	6.78	0.30	0.83	-1.80	0.43	-5.63	2.45	2.28	-2.17	**14.5**
3545	5219	2,5,19,21,28,34,35,37,40,43,47,49,53,54	-1.82	1.18	1.21	-8.51	-5.30	3.68	-4.06	0.64	3.97	5.76	-1.96	5.84	5.07	5.24	-0.33	2.28	1.66	**14.6**
3546	2063	1,6,9,11,13,16,18,19,22,25,29,36,35,37,40,41,44,55	1.72	-0.12	4.35	-6.18	0.94	0.25	-0.47	-3.40	-1.35	-2.91	0.24	-1.80	9.12	15.45	2.45	-1.54	-2.17	**14.6**
3547	2915	2,4,3,6,10,16,18,19,22,25,29,36,38,40,42,47,50,54	-0.04	0.66	-2.54	-6.02	5.38	1.11	-0.47	-6.58	-0.14	-2.06	-0.47	-1.80	3.20	22.04	-0.33	-1.54	4.21	**14.6**
3548	4220	2,4,7,11,17,19,22,24,29,36,35,37,42,46,48,52,53,54	2.73	-0.12	5.18	2.73	-5.35	-1.46	3.11	1.62	-1.08	-4.31	1.17	0.11	6.93	10.18	-3.11	-1.54	-2.17	**14.6**
3549	3360	2,4,3,6,9,11,13,16,18,21,27,26,31,34,36,39,41,40,42,46,48,52,53,54	2.89	2.48	5.51	5.95	-2.30	-1.46	1.68	-1.18	-1.37	3.61	0.35	0.11	3.28	-4.64	-0.33	2.28	-2.17	**14.7**
3550	2315	1,6,9,11,17,18,20,23,27,28,31,30,32,48,51	1.56	-0.12	7.10	-4.95	-7.93	2.82	5.26	-1.69	4.39	-0.13	0.36	-1.80	10.58	-4.64	2.45	-1.54	2.94	**14.7**
3551	2640	2,4,3,6,10,13,17,19,22,24,29,36,35,37,40,43,47,46,48,52,53,54	3.51	1.70	5.00	2.14	-5.28	0.25	1.68	-8.14	-2.51	-3.74	1.28	0.11	7.27	15.45	-0.33	-1.54	-2.17	**14.7**
3552	4072	2,4,7,11,13,16,20,23,26,33,37,40,41,45,55	2.25	-0.64	0.78	3.71	-0.06	1.97	0.25	7.41	7.10	0.25	0.68	-1.80	0.12	-4.31	-3.11	2.28	-2.17	**14.7**
3553	1648	1,6,10,16,18,19,22,24,29,39,41,43,50,54	0.61	-0.64	4.20	-6.84	-3.71	-2.32	0.96	-7.17	0.20	5.11	-1.44	-1.80	7.14	21.71	2.45	-1.54	-2.17	**14.7**
3554	3621	2,4,3,6,9,11,17,19,22,24,29,36,38,40,42,47,50,54	0.63	1.44	-1.40	-2.14	2.70	1.11	0.25	-1.71	2.72	-2.77	0.01	-1.80	4.51	8.86	-0.33	-1.54	4.21	**14.8**
3555	780	1,3,7,9,10,13,17,19,22,25,29,36,38,40,42,49,53,54	-0.23	0.92	-2.59	-6.94	3.72	0.25	0.25	0.71	-2.13	-2.94	-0.34	0.11	3.13	17.10	1.06	-1.54	4.21	**14.8**
3556	3919	2,4,7,11,13,16,18,19,22,25,29,36,35,37,40,41,44,55	1.46	-0.12	4.23	-5.89	1.39	-0.60	0.25	1.00	-1.03	-2.96	0.08	-1.80	8.81	16.77	-3.11	-1.54	-2.17	**14.8**
3557	2567	2,4,3,6,10,13,17,18,20,23,26,31,34,36,39,41,43,47,46,48,51	3.58	1.70	6.39	7.80	-6.60	-1.46	0.96	-4.09	-0.83	6.76	0.10	2.02	3.99	-5.30	-0.33	2.28	-2.17	**14.8**
3558	1311	1,6,10,13,17,18,20,23,26,31,34,36,39,41,40,42,46,48,51	3.40	0.40	6.28	6.58	-7.32	-0.60	0.96	-3.69	-0.83	6.53	0.09	2.02	3.73	-5.30	2.45	2.28	-2.17	**14.8**
3559	2341	1,6,9,11,17,18,20,23,27,28,34,36,39,41,43,47,46,48,51	3.28	0.14	6.46	8.62	-5.87	-0.60	1.68	1.27	-1.13	8.51	-0.15	2.02	3.73	-11.89	2.45	-1.54	-2.17	**14.8**
3560	1277	1,6,10,12,14,30,31,34,38,41,44,55	1.54	-3.23	3.32	3.14	9.65	0.25	0.25	-3.40	-2.39	2.91	0.41	-1.80	1.07	-2.01	2.45	-1.54	4.21	**14.8**
3561	2651	2,4,3,6,10,13,17,19,22,24,29,36,38,41,44,55	1.98	0.40	3.75	-5.06	1.71	-1.46	-1.19	-7.38	0.59	-2.94	0.39	-1.80	8.06	15.45	-0.33	-1.54	4.21	**14.8**
3562	3067	2,4,3,6,10,16,20,23,27,28,31,30,32,48,51	1.46	-0.12	6.33	-5.84	-6.41	1.97	3.83	-7.04	3.28	0.19	0.22	-1.80	9.51	8.20	-0.33	-1.54	2.94	**14.9**
3563	4171	2,4,7,11,17,18,20,23,27,28,31,30,32,48,51	1.31	-0.12	6.98	-4.65	-7.48	1.97	5.98	2.72	4.70	-0.18	0.21	-1.80	10.27	-3.32	-3.11	-1.54	2.94	**14.9**
3564	3380	2,4,3,6,9,11,13,16,18,21,27,26,33,37,40,41,45,55	2.94	1.44	2.30	3.00	0.16	3.68	0.96	-0.16	4.64	-2.33	1.29	-1.80	3.60	-4.64	-0.33	2.28	-2.17	**14.9**
3565	1929	1,6,9,11,13,12,14,30,31,34,38,43,47,49,53,54	0.27	-1.93	-1.82	6.61	10.94	1.11	0.96	4.36	-2.59	2.50	0.29	0.11	-2.43	-8.59	2.45	-1.54	4.21	**14.9**
3566	977	1,3,7,9,10,16,18,19,22,24,29,36,35,37,40,43,47,49,53,54	0.72	1.44	-1.80	-4.43	-0.08	1.11	-1.19	-0.85	-1.66	-3.23	0.09	0.11	4.32	23.02	1.06	-1.54	-2.17	**14.9**
3567	1256	1,6,10,12,14,30,31,34,35,37,40,43,47,46,48,52,53,54	3.07	-1.67	4.57	10.35	2.66	1.97	3.11	-4.16	-5.49	2.10	1.29	0.11	0.29	-2.01	2.45	-1.54	-2.17	**14.9**
3568	1869	1,6,8,14,30,31,34,36,39,41,40,42,47,50,54	3.59	-1.41	12.85	0.09	1.14	0.25	4.55	-5.58	-11.51	13.20	-0.62	0.11	9.77	-10.24	2.45	-1.54	-2.17	**14.9**
3569	2886	2,4,3,6,10,16,18,19,22,24,29,36,38,40,42,49,53,54	0.47	0.66	-2.23	-4.11	3.58	-0.60	-1.91	-4.59	-0.71	-3.25	0.08	0.11	3.41	21.71	-0.33	-1.54	4.21	**15.0**
3570	50	1,3,7,11,13,15,23,26,31,34,35,37,40,41,45,55	2.52	0.66	2.70	-0.30	0.11	2.82	-0.47	8.09	7.38	0.12	0.57	-1.80	2.95	-11.56	1.06	2.28	-2.17	**15.0**
3571	1677	1,6,10,16,18,19,22,25,29,39,41,43,47,49,53,54	0.26	-0.38	3.89	-8.42	-1.72	-2.32	0.96	-4.99	-3.88	5.27	-1.57	0.11	7.00	22.04	2.45	-1.54	-2.17	**15.0**
3572	2096	1,6,9,11,13,16,18,21,27,26,30,32,48,52,53,54	0.72	0.92	5.87	-8.05	-4.65	2.82	5.26	-3.74	4.14	-5.00	0.76	-3.71	9.35	2.61	2.45	2.28	2.94	**15.0**
3573	3093	2,4,3,6,10,16,20,23,27,28,34,36,39,41,43,47,46,48,51	3.18	0.14	5.70	7.73	-4.34	-1.46	0.25	-4.09	-2.24	8.83	-0.28	2.02	2.66	0.96	-0.33	-1.54	-2.17	**15.0**
3574	4197	2,4,7,11,17,18,20,23,27,28,34,36,39,41,43,47,46,48,51	3.03	0.14	6.34	8.92	-5.42	-1.46	2.40	5.68	-0.82	8.46	-0.30	2.02	3.42	-10.57	-3.11	-1.54	-2.17	**15.0**
3575	1837	1,6,10,16,20,23,27,28,34,36,39,41,40,42,46,48,51	3.00	-1.15	5.59	6.51	-5.07	-0.60	0.25	-3.69	-2.24	8.60	-0.30	2.02	2.40	0.96	2.45	-1.54	-2.17	**15.0**

Westar Energy- JEC to East Manhattan
345/230 kV Transmission Line Project
Table F-3: Weighted, Sorted Z-scores for All Routes

		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
3576	5199	2,5,19,21,27,26,33,37,42,47,50,54	-1.78	0.40	1.58	-8.89	-8.19	3.68	-2.62	-1.44	6.51	5.11	-1.90	3.93	5.97	5.24	-0.33	6.10	1.66	**15.0**
3577	3642	2,4,3,6,9,11,17,19,22,25,29,36,35,37,40,43,47,46,48,52,53,54	2.92	1.44	5.22	1.49	-3.41	0.25	3.11	-3.09	-3.15	-3.62	1.01	0.11	7.60	9.19	-0.33	-1.54	-2.17	**15.0**
3578	138	1,3,7,11,13,16,18,19,22,24,29,36,35,37,40,43,50,54	0.34	0.92	-1.36	-3.10	0.02	1.11	0.25	2.02	1.74	-3.26	-0.05	-1.80	4.44	16.44	1.06	-1.54	-2.17	**15.1**
3579	2925	2,4,3,6,10,16,18,19,22,25,29,39,41,40,42,47,50,54	0.56	0.40	4.12	-7.73	-1.29	-1.46	1.68	-7.48	-1.56	5.86	-1.74	-1.80	7.51	22.04	-0.33	-1.54	-2.17	**15.1**
3580	3785	2,4,7,11,13,12,14,30,31,34,38,43,47,49,53,54	0.01	-1.93	-1.94	6.91	11.38	0.25	1.68	8.76	-2.28	2.45	0.14	0.11	-2.74	-7.27	-3.11	-1.54	4.21	**15.1**
3581	931	1,3,7,9,10,15,23,27,28,31,30,32,48,51	1.44	0.40	8.02	-10.49	-8.07	2.82	4.55	-1.55	2.70	0.08	-0.04	-1.80	12.30	2.28	1.06	-1.54	2.94	**15.1**
3582	2383	1,6,9,11,17,19,22,24,29,39,41,43,47,49,53,54	0.93	0.40	5.03	-4.54	-4.41	-2.32	1.68	-0.13	-1.02	4.56	-1.08	0.11	8.31	8.86	2.45	-1.54	-2.17	**15.1**
3583	4505	2,4,7,9,10,13,17,19,22,24,29,36,38,40,42,47,50,54	0.48	1.44	-2.06	-4.18	2.43	1.11	0.25	-1.87	1.95	-2.56	-0.19	-1.80	3.80	16.77	-3.11	-1.54	4.21	**15.1**
3584	1727	1,6,10,16,18,21,28,31,30,32,48,51	1.22	-0.64	7.32	-7.90	-6.74	4.54	5.26	-9.40	1.13	-3.25	0.66	-1.80	11.69	9.19	2.45	-1.54	2.94	**15.1**
3585	3211	2,4,3,6,9,11,13,15,23,26,31,34,36,39,41,40,42,46,48,51	3.62	1.70	8.62	5.34	-6.54	-1.46	0.96	1.16	-0.64	6.28	0.02	2.02	7.16	-12.87	-0.33	2.28	-2.17	**15.1**
3586	5108	2,5,19,18,21,27,26,33,37,40,43,50,54	-1.69	1.18	1.66	-9.34	-8.44	3.68	-2.62	-1.44	6.51	4.80	-1.90	3.93	6.18	5.24	-0.33	6.10	1.66	**15.2**
3587	3952	2,4,7,11,13,16,18,21,27,26,30,32,48,52,53,54	0.46	0.92	5.75	-7.75	-4.20	1.97	5.98	0.67	4.46	-5.06	0.61	-3.71	9.04	3.92	-3.11	2.28	2.94	**15.2**
3588	3653	2,4,3,6,9,11,17,19,22,25,29,36,38,41,44,55	1.39	0.14	3.98	-5.71	3.58	-1.46	0.25	-2.33	-0.06	-2.81	0.12	-1.80	8.38	9.19	-0.33	-1.54	4.21	**15.2**
3589	3631	2,4,3,6,9,11,17,19,22,24,29,39,41,40,42,47,50,54	1.24	1.18	5.26	-3.85	-3.98	-1.46	2.40	-2.61	1.30	5.16	-1.26	-1.80	8.82	8.86	-0.33	-1.54	-2.17	**15.2**
3590	790	1,3,7,9,10,13,17,19,22,25,29,39,41,40,42,49,53,54	0.38	0.66	4.07	-8.66	-2.96	-2.32	2.40	-0.19	-3.54	4.99	-1.60	0.11	7.44	17.10	1.06	-1.54	-2.17	**15.2**
3591	2028	1,6,9,11,13,15,23,27,28,34,38,41,45,55	2.26	-0.38	1.91	-0.27	4.51	1.97	-1.19	4.76	6.95	2.34	0.28	-1.80	1.64	-12.87	2.45	-1.54	4.21	**15.2**
3592	1092	1,3,7,9,10,16,18,21,28,34,35,37,40,41,45,55	2.35	0.40	1.07	0.46	2.25	4.54	0.25	0.09	3.67	-0.94	0.77	-1.80	1.50	3.26	1.06	-1.54	-2.17	**15.2**
3593	350	1,3,7,11,13,16,20,23,27,28,34,36,39,41,40,42,46,48,52,53,54	2.09	-0.12	3.55	6.45	-1.74	-2.32	0.96	6.78	-0.33	8.23	-0.56	0.11	-0.91	-4.31	1.06	-1.54	-2.17	**15.2**
3594	957	1,3,7,9,10,15,23,27,28,34,36,39,41,43,47,46,48,51	3.16	0.66	7.39	3.09	-6.01	-0.60	0.96	1.40	-2.82	8.72	-0.54	2.02	5.45	-4.97	1.06	-1.54	-2.17	**15.2**
3595	865	1,3,7,9,10,13,17,21,28,34,36,39,41,40,42,46,48,51	3.06	0.40	6.86	5.43	-5.91	1.11	3.11	-1.64	-4.04	5.11	0.12	2.02	5.29	-2.99	1.06	-1.54	-2.17	**15.3**
3596	1753	1,6,10,16,18,21,28,34,36,39,41,43,47,46,48,51	2.95	-0.38	6.68	5.67	-4.68	1.11	1.68	-6.45	-4.39	5.39	0.15	2.02	4.85	1.95	2.45	-1.54	-2.17	**15.3**
3597	167	1,3,7,11,13,16,18,19,22,25,29,36,35,37,40,43,47,49,53,54	0.00	1.18	-1.67	-4.68	2.01	1.11	0.25	4.20	-2.34	-3.11	-0.17	0.11	4.30	16.77	1.06	-1.54	-2.17	**15.3**
3598	4239	2,4,7,11,17,19,22,24,29,39,41,43,47,49,53,54	0.68	0.40	4.91	-4.24	-3.96	-3.18	2.40	4.28	-0.71	4.51	-1.23	0.11	8.00	10.18	-3.11	-1.54	-2.17	**15.3**
3599	4882	2,4,7,9,10,16,20,23,26,31,34,35,37,40,41,45,55	2.52	0.40	0.44	1.90	1.29	1.97	-1.19	2.45	7.23	0.44	0.63	-1.80	-0.20	2.28	-3.11	2.28	-2.17	**15.3**
3600	1	1,3,7,11,13,12,14,30,31,34,35,37,40,41,44,55	1.88	-2.19	4.42	5.17	6.70	1.11	1.68	4.90	-2.27	2.46	0.54	-1.80	2.68	-7.27	1.06	-1.54	-2.17	**15.4**
3601	240	1,3,7,11,13,16,18,21,28,31,30,32,48,52,53,54	0.31	0.40	5.28	-7.96	-3.41	2.82	5.98	1.07	3.05	-3.62	0.39	-3.71	8.38	3.92	1.06	-1.54	2.94	**15.4**
3602	756	1,3,7,9,10,13,17,19,22,24,29,36,38,43,50,54	0.12	0.66	-2.27	-4.97	1.95	0.25	0.25	-1.47	1.95	-2.90	-0.21	-1.80	3.31	16.77	1.06	-1.54	4.21	**15.4**
3603	802	1,3,7,9,10,13,17,21,27,26,31,34,35,37,40,41,45,55	2.83	1.44	1.82	0.53	0.00	4.54	0.96	0.09	5.08	-2.25	1.13	-1.80	2.85	-2.99	1.06	2.28	-2.17	**15.4**
3604	3334	2,4,3,6,9,11,13,16,18,19,22,25,29,36,38,43,50,54	-0.21	0.92	-2.00	-4.55	5.56	-0.60	0.25	-1.62	0.96	-2.66	-0.36	-1.80	3.71	15.45	-0.33	-1.54	4.21	**15.4**
3605	3884	2,4,7,11,13,15,23,27,28,34,38,41,45,55	2.01	-0.38	1.79	0.03	4.96	1.11	-0.47	9.16	7.26	2.29	0.13	-1.80	1.33	-11.56	-3.11	-1.54	4.21	**15.4**
3606	2896	2,4,3,6,10,16,18,19,22,24,29,39,41,40,42,49,53,54	1.08	0.40	4.43	-5.83	-3.10	-3.18	0.25	-5.49	-2.13	4.68	-1.19	0.11	7.72	21.71	-0.33	-1.54	-2.17	**15.4**
3607	4526	2,4,7,9,10,13,17,19,22,25,29,36,35,37,40,43,47,46,48,52,53,54	2.77	1.44	4.56	-0.55	-3.67	0.25	3.11	-3.25	-3.92	-3.41	0.81	0.11	6.89	17.10	-3.11	-1.54	-2.17	**15.4**
3608	1908	1,6,9,11,13,12,14,30,31,34,35,37,42,46,48,52,53,54	2.93	-1.93	5.11	11.87	2.87	0.25	3.83	0.80	-4.38	1.61	1.43	0.11	0.81	-8.59	2.45	-1.54	-2.17	**15.4**
3609	2200	1,6,9,11,13,16,20,23,26,31,34,36,39,41,43,47,46,48,52,53,54	2.46	0.66	4.12	6.76	-2.76	-2.32	0.25	1.98	0.77	6.44	-0.11	0.11	0.14	-5.63	2.45	2.28	-2.17	**15.4**
3610	1463	1,6,10,13,17,21,27,26,31,34,36,39,41,43,47,46,48,51	3.42	0.66	7.43	5.74	-6.93	1.11	2.40	-6.45	-2.97	4.07	0.51	2.02	6.20	-4.31	2.45	2.28	-2.17	**15.4**
3611	1947	1,6,9,11,13,15,23,26,30,32,48,51	1.45	0.14	8.98	-8.66	-8.88	2.82	4.55	-1.40	4.88	-2.34	0.44	-1.80	13.24	-5.63	2.45	2.28	2.94	**15.5**
3612	1211	1,3,7,9,8,14,30,31,34,35,37,40,43,47,46,48,51	3.77	-1.15	13.97	6.34	-2.43	1.97	5.98	-2.05	-14.36	0.08	2.04	3.93	8.99	-8.92	1.06	-1.54	-2.17	**15.5**
3613	3175	2,4,3,6,9,11,13,12,14,30,31,34,38,40,42,47,50,54	0.57	-0.64	-1.59	7.30	11.36	1.97	1.68	1.87	-0.27	3.10	0.12	-1.80	-1.92	-8.59	-0.33	-1.54	4.21	**15.5**
3614	1124	1,3,7,9,10,16,20,23,26,30,32,48,52,53,54	0.34	-0.12	3.93	-8.78	-5.04	1.11	3.83	-1.13	5.53	-2.13	0.09	-3.71	5.78	9.52	1.06	2.28	2.94	**15.5**
3615	266	1,3,7,11,13,16,18,21,28,34,36,39,41,43,47,46,48,52,53,54	2.03	0.66	4.64	5.61	-1.35	-0.60	2.40	4.02	-2.47	5.01	-0.11	0.11	1.53	-3.32	1.06	-1.54	-2.17	**15.5**
3616	3186	2,4,3,6,9,11,13,12,14,30,33,37,40,43,47,46,48,52,53,54	3.30	-0.64	5.24	12.98	1.81	1.11	4.55	0.40	-5.59	1.94	1.43	0.11	1.51	-8.59	-0.33	-1.54	-2.17	**15.5**
3617	5131	2,5,19,18,21,28,34,35,37,40,43,47,49,53,54	-1.69	1.70	1.30	-8.51	-5.30	3.68	-4.06	0.64	3.97	5.76	-1.95	5.84	5.33	5.24	-0.33	2.28	1.66	**15.6**
3618	4537	2,4,7,9,10,13,17,19,22,25,29,36,38,41,44,55	1.24	0.14	3.32	-7.76	3.32	-1.46	0.25	-2.48	-0.82	-2.60	-0.08	-1.80	7.68	17.10	-3.11	-1.54	4.21	**15.6**
3619	4515	2,4,7,9,10,13,17,19,22,24,29,39,41,40,42,47,50,54	1.08	1.18	4.60	-5.90	-4.24	-1.46	2.40	-2.76	0.54	5.36	-1.46	-1.80	8.11	16.77	-3.11	-1.54	-2.17	**15.6**
3620	785	1,3,7,9,10,13,17,19,22,25,29,36,38,43,47,49,53,54	-0.22	0.92	-2.58	-6.55	3.94	0.25	0.25	0.71	-2.13	-2.74	-0.33	0.11	3.17	17.10	1.06	-1.54	4.21	**15.6**
3621	3764	2,4,7,11,13,12,14,30,31,34,35,37,42,46,48,52,53,54	2.67	-1.93	4.99	12.16	3.32	-0.60	4.55	5.21	-4.07	1.56	1.28	0.11	0.50	-7.27	-3.11	-1.54	-2.17	**15.6**
3622	4056	2,4,7,11,13,16,20,23,26,31,34,36,39,41,43,47,46,48,52,53,54	2.20	0.66	4.00	7.06	-2.31	-3.18	0.96	6.39	1.09	6.39	-0.26	0.11	-0.17	-4.31	-3.11	2.28	-2.17	**15.6**
3623	1490	1,6,10,13,17,21,28,31,30,32,46,49,53,54	2.70	-0.12	1.32	-4.74	1.80	2.82	3.83	-6.61	2.12	-2.62	1.19	0.11	7.05	2.94	2.45	-1.54	2.94	**15.6**
3624	3803	2,4,7,11,13,15,23,26,30,32,48,51	1.19	0.14	8.86	-8.36	-8.43	1.97	5.26	3.01	5.19	-2.39	0.29	-1.80	12.93	-4.31	-3.11	2.28	2.94	**15.6**
3625	3671	2,4,3,6,9,11,17,21,27,26,30,32,48,51	1.65	0.92	8.64	-5.50	-8.28	3.68	6.70	-4.85	3.66	-4.97	1.05	-1.80	13.54	-3.65	-0.33	2.28	2.94	**15.7**
3626	500	1,3,7,11,17,19,22,25,29,36,38,40,42,49,53,54	-0.51	-0.12	-2.14	-5.43	3.93	0.25	0.96	5.67	-1.05	-3.23	-0.30	0.11	3.31	10.51	1.06	-1.54	4.21	**15.7**
3627	4772	2,4,7,9,10,16,18,19,22,25,29,36,38,40,42,49,53,54	-0.27	0.40	-2.66	-6.80	5.18	-0.60	-0.47	0.31	-2.13	-2.91	-0.39	0.11	3.03	23.35	-3.11	-1.54	4.21	**15.7**
3628	4718	2,4,7,9,10,15,23,27,28,34,36,39,45,55	1.33	0.14	6.87	-0.46	-2.14	0.25	-1.91	3.31	4.77	14.35	-1.69	-1.80	4.49	-4.97	-3.11	-1.54	-2.17	**15.7**
3629	1663	1,6,10,16,18,19,22,25,29,36,38,40,42,47,50,54	-0.22	-0.38	-2.63	-6.84	4.88	1.97	-0.47	-6.18	-0.14	-2.09	-0.49	-1.80	2.98	22.04	2.45	-1.54	4.21	**15.7**
3630	4981	2,4,7,9,8,14,30,31,34,36,39,41,43,47,49,53,54	3.54	-0.64	12.83	0.53	1.66	-2.32	4.55	0.91	-13.49	12.58	-0.52	2.02	9.86	-8.92	-3.11	-1.54	-2.17	**15.8**

Weights			3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
3631	3364	2,4,3,6,9,11,13,16,18,21,27,26,31,34,36,39,41,43,47,46,48,52,53,54	2.90	2.74	5.52	6.35	-2.08	-1.46	1.68	-1.18	-1.37	3.81	0.35	0.11	3.31	-4.64	-0.33	2.28	-2.17	**15.8**
3632	2108	1,6,9,11,13,16,18,21,27,26,31,34,36,39,41,40,42,46,48,52,53,54	2.72	1.44	5.42	5.12	-2.81	-0.60	1.68	-0.78	-1.37	3.58	0.33	0.11	3.05	-4.64	2.45	2.28	-2.17	**15.8**
3633	1388	1,6,10,13,17,19,22,24,29,36,35,37,40,43,47,46,48,52,53,54	3.34	0.66	4.91	1.31	-5.78	1.11	1.68	-7.74	-2.51	-3.77	1.26	0.11	7.05	15.45	2.45	-1.54	-2.17	**15.8**
3634	2891	2,4,3,6,10,16,18,19,22,24,29,36,38,43,47,49,53,54	0.48	0.66	-2.22	-3.71	3.79	-0.60	-1.91	-4.59	-0.71	-3.05	0.08	0.11	3.44	21.71	-0.33	-1.54	4.21	**15.8**
3635	654	1,3,7,9,10,13,17,18,20,23,26,31,34,35,37,40,41,45,55	2.81	1.44	0.69	1.76	-0.17	2.82	-0.47	2.85	7.23	0.41	0.71	-1.80	0.42	-3.98	1.06	2.28	-2.17	**15.9**
3636	2369	1,6,9,11,17,19,22,24,29,36,38,40,42,47,50,54	0.46	0.40	-1.49	-2.96	2.19	1.97	0.25	-1.31	2.72	-2.80	0.00	-1.80	4.28	8.86	2.45	-1.54	4.21	**15.9**
3637	774	1,3,7,9,10,13,17,19,22,25,29,36,35,37,42,46,48,52,53,54	2.44	0.66	4.36	-1.29	-4.13	-0.60	3.11	-2.85	-3.92	-3.64	0.81	0.11	6.41	17.10	1.06	-1.54	-2.17	**15.9**
3638	141	1,3,7,11,13,16,18,19,22,24,29,36,35,37,42,47,50,54	0.38	0.66	-1.35	-2.65	0.27	1.11	0.25	2.02	1.74	-2.95	-0.03	-1.80	4.49	16.44	1.06	-1.54	-2.17	**15.9**
3639	3604	2,4,3,6,9,11,17,18,20,23,27,28,34,38,41,45,55	2.45	0.40	0.44	4.13	4.94	1.11	-0.47	4.07	7.87	2.37	0.46	-1.80	-0.49	-11.89	-0.33	-1.54	4.21	**15.9**
3640	1315	1,6,10,13,17,18,20,23,26,31,34,36,39,41,43,47,46,48,51	3.41	0.66	6.30	6.98	-7.10	-0.60	0.96	-3.69	-0.83	6.73	0.09	2.02	3.77	-5.30	2.45	2.28	-2.17	**16.0**
3641	2829	2,4,3,6,10,15,23,27,28,31,30,32,46,47,50,54	3.11	1.18	2.08	-6.40	2.13	1.97	2.40	-6.05	5.67	1.59	0.37	-1.80	7.72	0.96	-0.33	-1.54	2.94	**16.0**
3642	2786	2,4,3,6,10,15,23,26,30,32,46,49,53,54	2.87	0.92	2.24	-6.79	0.96	0.25	1.68	-3.96	4.76	-1.40	0.79	0.11	7.71	0.96	-0.33	2.28	2.94	**16.0**
3643	1399	1,6,10,13,17,19,22,24,29,36,38,41,44,55	1.81	-0.64	3.67	-5.89	1.20	-0.60	-1.19	-6.98	0.59	-2.97	0.37	-1.80	7.83	15.45	2.45	-1.54	4.21	**16.0**
3644	1815	1,6,10,16,20,23,27,28,31,30,32,48,51	1.29	-1.15	6.25	-6.66	-6.91	2.82	3.83	-6.64	3.28	0.16	0.21	-1.80	9.29	8.20	2.45	-1.54	2.94	**16.0**
3645	3964	2,4,7,11,13,16,18,21,27,26,31,34,36,39,41,40,42,46,48,52,53,54	2.46	1.44	5.30	5.42	-2.36	-1.46	2.40	3.62	-1.06	3.53	0.18	0.11	2.74	-3.32	-3.11	2.28	-2.17	**16.0**
3646	2128	1,6,9,11,13,16,18,21,27,26,33,37,40,41,45,55	2.77	0.40	2.21	2.18	-0.34	4.54	0.96	0.24	4.64	-2.36	1.28	-1.80	3.38	-4.64	2.45	2.28	-2.17	**16.0**
3647	161	1,3,7,11,13,16,18,19,22,24,29,39,44,55	-2.13	-0.90	7.80	-5.93	-3.60	-3.18	-1.19	1.88	0.60	4.59	-1.54	-1.80	7.62	16.44	1.06	-1.54	-2.17	**16.0**
3648	2626	2,4,3,6,10,13,17,18,20,23,27,28,34,36,39,45,55	1.65	0.66	5.43	4.05	-1.94	0.25	-1.91	-1.78	5.35	14.43	-1.34	-1.80	2.33	-5.30	-0.33	-1.54	-2.17	**16.0**
3649	5111	2,5,19,18,21,27,26,33,37,42,47,50,54	-1.66	0.92	1.67	-8.89	-8.19	3.68	-2.62	-1.44	6.51	5.11	-1.88	3.93	6.23	5.24	-0.33	6.10	1.66	**16.0**
3650	3129	2,4,3,6,8,14,30,31,34,38,40,42,46,48,51	3.52	-1.41	13.54	6.66	1.23	0.25	5.26	-5.79	-13.41	0.07	2.03	3.93	8.07	-10.24	-0.33	-1.54	4.21	**16.1**
3651	4555	2,4,7,9,10,13,17,21,27,26,30,32,48,51	1.50	0.92	7.98	-7.54	-8.55	3.68	6.70	-5.00	2.89	-4.77	0.84	-1.80	12.83	4.25	-3.11	2.28	2.94	**16.1**
3652	4225	2,4,7,11,17,19,22,24,29,36,38,40,42,47,50,54	0.20	0.40	-1.61	-2.66	2.64	1.11	0.96	3.09	3.03	-2.85	-0.15	-1.80	3.97	10.18	-3.11	-1.54	4.21	**16.1**
3653	1180	1,3,7,9,10,16,20,23,27,28,34,35,37,40,41,45,55	2.41	-0.12	0.00	1.70	2.08	2.82	-1.19	2.85	5.81	2.47	0.33	-1.80	-0.91	2.28	1.06	-1.54	-2.17	**16.1**
3654	1634	1,6,10,16,18,19,22,24,29,36,38,40,42,49,53,54	0.30	-0.38	-2.32	-4.93	3.07	0.25	-1.91	-4.19	-0.71	-3.28	0.06	0.11	3.18	21.71	2.45	-1.54	4.21	**16.1**
3655	2880	2,4,3,6,10,16,18,19,22,24,29,36,35,37,42,46,48,52,53,54	3.14	0.40	4.72	1.54	-4.27	-1.46	0.96	-8.14	-2.51	-3.94	1.22	0.11	6.68	21.71	-0.33	-1.54	-2.17	**16.1**
3656	1841	1,6,10,16,20,23,27,28,34,36,39,41,43,47,46,48,51	3.01	-0.90	5.61	6.91	-4.85	-0.60	0.25	-3.69	-2.24	8.80	-0.29	2.02	2.44	0.96	2.45	-1.54	-2.17	**16.1**
3657	510	1,3,7,11,17,19,22,25,29,39,41,40,42,49,53,54	0.10	-0.38	4.52	-7.15	-2.75	-2.32	3.11	4.77	-2.46	4.70	-1.57	0.11	7.62	10.51	1.06	-1.54	-2.17	**16.2**
3658	4782	2,4,7,9,10,16,18,19,22,25,29,39,41,40,42,49,53,54	0.33	0.14	4.00	-8.52	-1.49	-3.18	1.68	-0.59	-3.54	5.02	-1.66	0.11	7.33	23.35	-3.11	-1.54	-2.17	**16.2**
3659	3523	2,4,3,6,9,11,17,18,20,23,26,30,32,48,51	1.63	0.92	7.51	-4.26	-8.45	1.97	5.26	-2.08	5.80	-2.31	0.63	-1.80	11.11	-4.64	-0.33	2.28	2.94	**16.2**
3660	2390	1,6,9,11,17,19,22,25,29,36,35,37,40,43,47,46,48,52,53,54	2.74	0.40	5.14	0.66	-3.91	1.11	3.11	-2.69	-3.15	-3.65	1.00	0.11	7.37	9.19	2.45	-1.54	-2.17	**16.2**
3661	585	1,3,7,11,17,21,28,34,36,39,41,40,42,46,48,51	2.78	-0.64	7.31	6.95	-5.71	1.11	3.83	3.31	-2.96	4.82	0.15	2.02	5.46	-9.58	1.06	-1.54	-2.17	**16.2**
3662	1673	1,6,10,16,18,19,22,25,29,39,41,40,42,47,50,54	0.39	-0.64	4.03	-8.56	-1.80	-0.60	1.68	-7.08	-1.56	5.84	-1.76	-1.80	7.29	22.04	2.45	-1.54	-2.17	**16.2**
3663	3984	2,4,7,11,13,16,18,21,27,26,33,37,40,41,45,55	2.51	0.40	2.09	2.48	0.11	3.68	1.68	4.65	4.95	-2.41	1.13	-1.80	3.07	-3.32	-3.11	2.28	-2.17	**16.2**
3664	328	1,3,7,11,13,16,20,23,27,28,31,30,32,48,52,53,54	0.37	-0.12	4.20	-6.72	-3.58	1.11	4.55	3.83	5.19	-0.21	-0.05	-3.71	5.98	2.94	1.06	-1.54	2.94	**16.2**
3665	843	1,3,7,9,10,13,17,21,28,31,30,32,48,51	1.35	0.40	7.51	-7.74	-7.76	4.54	6.70	-4.60	1.48	-3.33	0.62	-1.80	12.17	4.25	1.06	-1.54	2.94	**16.2**
3666	3215	2,4,3,6,9,11,13,15,23,26,31,34,36,39,41,43,47,46,48,51	3.63	1.96	8.63	5.74	-6.32	-1.46	0.96	1.16	-0.64	6.47	0.03	2.02	7.20	-12.87	-0.33	2.28	-2.17	**16.3**
3667	1959	1,6,9,11,13,15,23,26,31,34,36,39,41,40,42,46,48,51	3.45	0.66	8.53	4.52	-7.04	-0.60	0.96	1.56	-0.64	6.25	0.01	2.02	6.94	-12.87	2.45	2.28	-2.17	**16.3**
3668	476	1,3,7,11,17,19,22,24,29,36,38,43,50,54	-0.16	-0.38	-1.82	-3.46	2.15	0.25	0.96	3.49	3.03	-3.19	-0.17	-1.80	3.48	10.18	1.06	-1.54	4.21	**16.3**
3669	4748	2,4,7,9,10,16,18,19,22,24,29,36,38,43,50,54	0.08	0.14	-2.34	-4.83	3.41	-0.60	-0.47	-1.87	1.95	-2.87	-0.26	-1.80	3.20	23.02	-3.11	-1.54	4.21	**16.3**
3670	4488	2,4,7,9,10,13,17,18,20,23,27,28,34,38,41,45,55	2.29	0.40	-0.22	2.09	4.68	1.11	-0.47	3.92	7.10	2.58	0.26	-1.80	-1.20	-3.98	-3.11	-1.54	4.21	**16.3**
3671	522	1,3,7,11,17,21,27,26,31,34,35,37,40,41,45,55	2.55	0.40	2.27	2.04	0.21	4.54	1.68	5.05	6.16	-2.54	1.17	-1.80	3.03	-9.58	1.06	2.28	-2.17	**16.3**
3672	1136	1,3,7,9,10,16,20,23,26,31,34,36,39,41,40,42,46,48,52,53,54	2.34	0.40	3.48	4.40	-3.20	-2.32	0.25	1.83	0.01	6.45	-0.33	0.11	-0.53	2.28	1.06	2.28	-2.17	**16.3**
3673	2401	1,6,9,11,17,19,22,25,29,36,38,41,44,55	1.22	-0.90	3.89	-6.54	3.08	-0.60	0.25	-1.93	-0.06	-2.84	0.11	-1.80	8.16	9.19	2.45	-1.54	4.21	**16.3**
3674	2379	1,6,9,11,17,19,22,24,29,39,41,40,42,47,50,54	1.06	0.14	5.17	-4.68	-4.48	-0.60	2.40	-2.21	1.30	5.13	-1.27	-1.80	8.59	8.86	2.45	-1.54	-2.17	**16.3**
3675	764	1,3,7,9,10,13,17,19,22,24,29,39,41,43,50,54	0.73	0.92	4.39	-6.69	-4.73	-2.32	2.40	-2.37	0.54	5.03	-1.48	-1.80	7.61	16.77	1.06	-1.54	-2.17	**16.4**
3676	4246	2,4,7,11,17,19,22,25,29,36,35,37,40,43,47,46,48,52,53,54	2.49	0.40	5.02	0.96	-3.46	0.25	3.83	1.71	-2.84	-3.70	0.85	0.11	7.07	10.51	-3.11	-1.54	-2.17	**16.4**
3677	3342	2,4,3,6,9,11,13,16,18,19,22,25,29,39,41,43,50,54	0.39	1.18	4.66	-6.27	-1.11	-3.18	2.40	-2.52	-0.45	5.27	-1.63	-1.80	8.02	15.45	-0.33	-1.54	-2.17	**16.4**
3678	354	1,3,7,11,13,16,20,23,27,28,34,36,39,41,43,47,46,48,52,53,54	2.10	0.14	3.56	6.85	-1.52	-2.32	0.96	6.78	-0.33	8.43	-0.56	0.11	-0.87	-4.31	1.06	-1.54	-2.17	**16.4**
3679	3285	2,4,3,6,9,11,13,16,18,19,22,24,29,36,35,37,40,41,44,55	2.54	1.18	4.90	-3.19	-0.22	-0.60	-1.19	-3.89	0.40	-3.30	0.61	-1.80	9.87	15.12	-0.33	-1.54	-2.17	**16.4**
3680	869	1,3,7,9,10,13,17,21,28,34,36,39,41,43,47,46,48,51	3.07	0.66	6.87	5.83	-5.69	1.11	3.11	-1.64	-4.04	5.31	0.12	2.02	5.32	-2.99	1.06	-1.54	-2.17	**16.4**
3681	3016	2,4,3,6,10,16,18,21,28,34,38,41,45,55	2.11	-0.12	0.66	1.18	6.13	2.82	-0.47	-3.64	4.62	-0.75	0.76	-1.80	0.62	1.95	-0.33	-1.54	4.21	**16.4**
3682	5170	2,5,19,21,27,26,31,34,35,37,42,49,53,54	-1.72	1.18	1.68	-9.04	-6.54	1.97	-4.06	0.64	5.39	4.24	-1.66	5.84	5.83	5.24	-0.33	6.10	1.66	**16.4**
3683	2808	2,4,3,6,10,15,23,26,31,34,36,39,45,55	1.61	0.66	7.37	-0.07	-3.12	0.25	-2.62	-1.50	5.84	12.36	-1.25	-1.80	5.24	-6.29	-0.33	2.28	-2.17	**16.5**
3684	3815	2,4,7,11,13,15,23,26,31,34,36,39,41,40,42,46,48,51	3.19	0.66	8.41	4.81	-6.59	-1.46	1.68	5.96	-0.33	6.19	-0.14	2.02	6.63	-11.56	-3.11	2.28	-2.17	**16.5**
3685	3746	2,4,3,6,9,11,17,21,28,34,36,39,45,55	1.39	0.14	7.02	4.32	-1.56	1.97	0.25	0.42	4.31	10.73	-0.82	-1.80	5.07	-10.90	-0.33	-1.54	-2.17	**16.5**

Table F-3: Weighted, Sorted Z-scores for All Routes

		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
3686	2541	2,4,3,6,10,12,14,30,33,37,42,46,48,51	3.63	-1.93	6.96	12.60	-1.53	1.11	4.55	-5.27	-7.19	2.03	1.54	2.02	4.03	-2.01	-0.33	-1.54	-2.17	**16.5**
3687	3683	2,4,3,6,9,11,17,21,27,26,31,34,36,39,41,40,42,46,48,51	3.65	1.44	8.19	7.68	-6.44	0.25	3.11	-1.89	-1.86	3.61	0.62	2.02	7.24	-10.90	-0.33	2.28	-2.17	**16.5**
3688	1156	1,3,7,9,10,16,20,23,26,33,37,40,41,45,55	2.39	-0.64	0.27	1.45	-0.73	2.82	-0.47	2.85	6.02	0.51	0.61	-1.80	-0.20	2.28	1.06	2.28	-2.17	**16.5**
3689	2082	1,6,9,11,13,16,18,19,22,25,29,36,38,43,50,54	-0.39	-0.12	-2.09	-5.38	5.06	0.25	0.25	-1.22	0.96	-2.69	-0.37	-1.80	3.49	15.45	2.45	-1.54	4.21	**16.5**
3690	4257	2,4,7,11,17,19,22,25,29,36,38,41,44,55	0.96	-0.90	3.77	-6.24	3.53	-1.46	0.96	2.47	0.26	-2.89	-0.04	-1.80	7.85	10.51	-3.11	-1.54	4.21	**16.5**
3691	4235	2,4,7,11,17,19,22,24,29,39,41,40,42,47,50,54	0.80	0.14	5.05	-4.38	-4.03	-1.46	3.11	2.19	1.62	5.07	-1.42	-1.80	8.28	10.18	-3.11	-1.54	-2.17	**16.5**
3692	1644	1,6,10,16,18,19,22,24,29,39,41,40,42,49,53,54	0.90	-0.64	4.34	-6.65	-3.60	-2.32	0.25	-5.09	-2.13	4.65	-1.21	0.11	7.49	21.71	2.45	-1.54	-2.17	**16.5**
3693	4407	2,4,7,9,10,13,17,18,20,23,26,30,32,48,51	1.48	0.92	6.85	-6.30	-8.72	1.97	5.26	-2.24	5.04	-2.11	0.43	-1.80	10.40	3.26	-3.11	2.28	2.94	**16.6**
3694	628	1,3,7,9,10,12,14,30,31,34,38,40,42,49,53,54	0.15	-1.41	-2.47	4.25	10.50	1.11	0.96	4.20	-3.36	2.51	0.06	0.11	-3.10	-0.69	1.06	-1.54	4.21	**16.6**
3695	2726	2,4,3,6,10,13,17,21,27,26,31,34,38,41,45,55	2.59	0.92	1.41	1.24	3.88	2.82	0.25	-3.64	6.03	-2.07	1.12	-1.80	1.97	-4.31	-0.33	2.28	4.21	**16.6**
3696	505	1,3,7,11,17,19,22,25,29,36,38,43,47,49,53,54	-0.50	-0.12	-2.13	-5.03	4.14	0.25	0.96	5.67	-1.05	-3.03	-0.29	0.11	3.34	10.51	1.06	-1.54	4.21	**16.6**
3697	4777	2,4,7,9,10,16,18,19,22,25,29,36,38,43,47,49,53,54	-0.27	0.40	-2.65	-6.41	5.40	-0.60	-0.47	0.31	-2.13	-2.71	-0.39	0.11	3.06	23.35	-3.11	-1.54	4.21	**16.6**
3698	1003	1,3,7,9,10,16,18,19,22,25,29,36,35,37,40,41,44,55	1.60	-0.12	3.72	-8.15	0.72	0.25	-0.47	-3.56	-2.11	-2.70	0.01	-1.80	8.48	23.35	1.06	-1.54	-2.17	**16.6**
3699	793	1,3,7,9,10,13,17,19,22,25,29,39,41,43,47,49,53,54	0.38	1.18	4.08	-8.26	-2.74	-2.32	2.40	-0.19	-3.54	5.18	-1.60	0.11	7.48	17.10	1.06	-1.54	-2.17	**16.6**
3700	1923	1,6,9,11,13,12,14,30,31,34,38,40,42,47,50,54	0.39	-1.67	-1.68	6.47	10.86	2.82	1.68	2.27	-0.27	3.07	0.10	-1.80	-2.14	-8.59	2.45	-1.54	4.21	**16.6**
3701	1934	1,6,9,11,13,12,14,30,33,37,40,43,47,46,48,52,53,54	3.13	-1.67	5.16	12.15	1.30	1.97	4.55	0.80	-5.59	1.91	1.41	0.11	1.29	-8.59	2.45	-1.54	-2.17	**16.7**
3702	3135	2,4,3,6,8,14,30,31,34,38,43,47,46,48,51	3.53	-1.67	13.55	7.05	1.45	0.25	5.26	-5.79	-13.41	0.27	2.03	3.93	8.11	-10.24	-0.33	-1.54	4.21	**16.7**
3703	4857	2,4,7,9,10,16,18,21,28,34,36,39,41,40,42,46,48,51	3.01	0.40	6.79	5.57	-4.45	0.25	2.40	-2.04	-4.04	5.14	0.06	2.02	5.18	3.26	-3.11	-1.54	-2.17	**16.7**
3704	3938	2,4,7,11,13,16,18,19,22,25,29,36,38,43,50,54	-0.64	-0.12	-2.21	-5.08	5.51	-0.60	0.96	3.18	1.28	-2.74	-0.52	-1.80	3.18	16.77	-3.11	-1.54	4.21	**16.7**
3705	4670	2,4,7,9,10,15,23,26,31,34,38,41,45,55	2.26	0.40	1.72	-2.03	3.50	1.11	-1.19	4.21	7.60	0.51	0.35	-1.80	1.71	-4.97	-3.11	2.28	4.21	**16.8**
3706	2899	2,4,3,6,10,16,18,19,22,24,29,39,41,43,47,49,53,54	1.08	0.92	4.44	-5.43	-2.88	-3.18	0.25	-5.49	-2.13	4.88	-1.19	0.11	7.75	21.71	-0.33	-1.54	-2.17	**16.8**
3707	2419	1,6,9,11,17,21,27,26,30,32,48,51	1.47	-0.12	8.55	-6.32	-8.79	4.54	6.70	-4.45	3.66	-5.00	1.03	-1.80	13.32	-3.65	2.45	2.28	2.94	**16.8**
3708	3779	2,4,7,11,13,12,14,30,31,34,38,40,42,47,50,54	0.13	-1.67	-1.80	6.77	11.31	1.97	2.40	6.68	0.05	3.02	-0.05	-1.80	-2.45	-7.27	-3.11	-1.54	4.21	**16.8**
3709	374	1,3,7,11,17,18,20,23,26,31,34,35,37,40,41,45,55	2.53	0.40	1.14	3.28	0.04	2.82	0.25	7.81	8.30	0.12	0.75	-1.80	0.60	-10.57	1.06	2.28	-2.17	**16.8**
3710	3790	2,4,7,11,13,12,14,30,33,37,40,43,47,46,48,52,53,54	2.87	-1.67	5.04	12.45	1.75	1.11	5.26	5.21	-5.28	1.86	1.26	0.11	0.98	-7.27	-3.11	-1.54	-2.17	**16.8**
3711	4794	2,4,7,9,10,16,18,21,27,26,31,34,35,37,40,41,45,55	2.78	1.44	1.75	0.67	1.46	3.68	0.25	-0.31	5.08	-2.22	1.07	-1.80	2.74	3.26	-3.11	2.28	-2.17	**16.8**
3712	494	1,3,7,11,17,19,22,25,29,36,35,37,42,46,48,52,53,54	2.16	-0.38	4.81	0.22	-3.92	-0.60	3.83	2.11	-2.84	-3.93	0.85	0.11	6.58	10.51	1.06	-1.54	-2.17	**16.9**
3713	4766	2,4,7,9,10,16,18,19,22,25,29,36,35,37,42,46,48,52,53,54	2.39	0.14	4.28	-1.15	-2.66	-1.46	2.40	-3.25	-3.92	-3.61	0.75	0.11	6.30	23.35	-3.11	-1.54	-2.17	**16.9**
3714	4630	2,4,7,9,10,13,17,21,28,34,36,39,45,55	1.24	0.14	6.36	2.28	-1.83	1.97	0.25	0.26	3.55	10.93	-1.03	-1.80	4.36	-2.99	-3.11	-1.54	-2.17	**16.9**
3715	4567	2,4,7,9,10,13,17,21,27,26,31,34,36,39,41,40,42,46,48,51	3.49	1.44	7.53	5.64	-6.70	0.25	3.11	-2.04	-2.63	3.82	0.42	2.02	6.53	-2.99	-3.11	2.28	-2.17	**16.9**
3716	242	1,3,7,11,13,16,18,21,28,31,33,37,40,41,45,55	2.36	0.40	1.62	2.27	0.90	4.54	1.68	5.05	3.54	-0.97	0.91	-1.80	2.41	-3.32	1.06	-1.54	-2.17	**16.9**
3717	2112	1,6,9,11,13,16,18,21,27,26,31,34,36,39,41,43,47,46,48,52,53,54	2.72	1.70	5.43	5.52	-2.59	-0.60	1.68	-0.78	-1.37	3.78	0.34	0.11	3.09	-4.64	2.45	2.28	-2.17	**16.9**
3718	1639	1,6,10,16,18,19,22,24,29,36,38,43,47,49,53,54	0.30	-0.38	-2.30	-4.54	3.29	0.25	-1.91	-4.19	-0.71	-3.08	0.07	0.11	3.22	21.71	2.45	-1.54	4.21	**17.0**
3719	4977	2,4,7,9,8,14,30,31,34,36,39,41,40,42,47,50,54	3.67	-0.90	12.97	0.39	1.59	-0.60	5.26	-1.17	-11.16	13.15	-0.71	0.11	10.14	-8.92	-3.11	-1.54	-2.17	**17.0**
3720	3535	2,4,3,6,9,11,17,18,20,23,26,31,34,36,39,41,40,42,46,48,51	3.63	1.44	7.06	8.92	-6.61	-1.46	1.68	0.87	0.28	6.27	0.20	2.02	4.81	-11.89	-0.33	2.28	-2.17	**17.0**
3721	4275	2,4,7,11,17,21,27,26,30,32,48,51	1.22	-0.12	8.43	-6.02	-8.34	3.68	7.41	-0.04	3.97	-5.06	0.88	-1.80	13.01	-2.33	-3.11	2.28	2.94	**17.0**
3722	1036	1,3,7,9,10,16,18,21,27,26,30,32,48,51	0.61	0.92	5.24	-10.01	-4.87	2.82	5.26	-3.89	3.38	-4.80	0.54	-3.71	8.72	10.51	1.06	2.28	2.94	**17.0**
3723	4686	2,4,7,9,10,15,23,27,28,31,30,32,46,49,53,54	2.87	0.92	1.95	-7.18	1.93	0.25	2.40	0.84	3.69	0.74	0.43	0.11	7.55	2.28	-3.11	-1.54	2.94	**17.1**
3724	30	1,3,7,11,13,12,14,30,31,34,38,43,50,54	-0.22	-2.45	-2.01	5.98	10.82	1.11	2.40	7.08	0.05	2.68	-0.07	-1.80	-2.95	-7.27	1.06	-1.54	4.21	**17.1**
3725	2578	2,4,3,6,10,13,17,18,20,23,26,31,34,38,41,45,55	2.57	0.92	0.28	2.48	3.71	1.11	-1.19	-0.88	8.18	0.59	0.70	-1.80	-0.46	-5.30	-0.33	2.28	4.21	**17.1**
3726	2352	1,6,9,11,17,18,20,23,27,28,34,38,41,45,55	2.27	-0.64	0.35	3.31	4.44	1.97	-0.47	4.47	7.87	2.34	0.45	-1.80	-0.72	-11.89	2.45	-1.54	4.21	**17.1**
3727	2523	2,4,3,6,10,12,14,30,31,34,36,39,44,55	0.97	-1.93	9.10	5.40	3.48	-1.46	-0.47	-4.69	-3.81	14.71	-1.29	-1.80	4.97	-2.01	-0.33	-1.54	-2.17	**17.1**
3728	1577	1,6,10,15,23,27,28,31,30,32,46,47,50,54	2.93	0.14	1.99	-7.22	1.62	2.82	2.40	-5.65	5.67	1.56	0.36	-1.80	7.50	0.96	2.45	-1.54	2.94	**17.1**
3729	1534	1,6,10,15,23,26,30,32,46,49,53,54	2.69	-0.12	2.16	-7.61	0.45	1.11	1.68	-3.56	4.76	-1.43	0.78	0.11	7.48	0.96	2.45	2.28	2.94	**17.1**
3730	2741	2,4,3,6,10,13,17,21,28,31,30,32,46,47,50,54	3.01	1.18	1.56	-3.65	2.45	3.68	4.55	-9.09	4.45	-1.83	1.04	-1.80	7.60	2.94	-0.33	-1.54	2.94	**17.1**
3731	3968	2,4,7,11,13,16,18,21,27,26,31,34,36,39,41,43,47,46,48,52,53,54	2.47	1.70	5.31	5.82	-2.14	-1.46	2.40	3.62	-1.06	3.73	0.19	0.11	2.78	-3.32	-3.11	2.28	-2.17	**17.1**
3732	1374	1,6,10,13,17,18,20,23,27,28,34,36,39,45,55	1.47	-0.38	5.35	3.22	-2.45	1.11	-1.91	-1.38	5.35	14.40	-1.36	-1.80	2.10	-5.30	2.45	-1.54	-2.17	**17.2**
3733	563	1,3,7,11,17,21,28,31,30,32,48,51	1.07	-0.64	7.96	-6.23	-7.55	4.54	7.41	0.36	2.56	-3.62	0.66	-1.80	12.35	-2.33	1.06	-1.54	2.94	**17.2**
3734	1877	1,6,8,14,30,31,34,38,40,42,46,48,51	3.35	-2.45	13.45	5.83	0.73	1.11	5.26	-5.39	-13.41	0.04	2.01	3.93	7.85	-10.24	2.45	-1.54	4.21	**17.2**
3735	113	1,3,7,11,13,15,23,27,28,34,36,39,41,40,42,46,48,51	3.08	0.14	7.97	4.61	-5.80	-0.60	1.68	6.36	-1.74	8.23	-0.44	2.02	5.92	-11.56	1.06	-1.54	-2.17	**17.2**
3736	1628	1,6,10,16,18,19,22,24,29,36,35,37,42,46,48,52,53,54	2.96	-0.64	4.63	0.72	-4.77	-0.60	0.96	-7.74	-2.51	-3.97	1.21	0.11	6.46	21.71	2.45	-1.54	-2.17	**17.2**
3737	3104	2,4,3,6,10,16,20,23,27,28,34,38,41,45,55	2.17	-0.64	-0.41	2.41	5.96	1.11	-1.91	-0.88	6.76	2.66	0.32	-1.80	-1.79	0.96	-0.33	-1.54	4.21	**17.3**
3738	4208	2,4,7,11,17,18,20,23,27,28,34,38,41,45,55	2.01	-0.64	0.23	3.60	4.89	1.11	0.25	8.88	8.18	2.29	0.30	-1.80	-1.03	-10.57	-3.11	-1.54	4.21	**17.3**
3739	484	1,3,7,11,17,19,22,24,29,39,41,43,50,54	0.45	-0.12	4.84	-5.17	-4.52	-2.32	3.11	2.59	1.62	4.74	-1.44	-1.80	7.79	10.18	1.06	-1.54	-2.17	**17.3**
3740	4756	2,4,7,9,10,16,18,19,22,24,29,39,41,43,50,54	0.68	0.40	4.32	-6.55	-3.26	-3.18	1.68	-2.76	0.54	5.06	-1.53	-1.80	7.50	23.02	-3.11	-1.54	-2.17	**17.3**

Westar Energy- JEC to East Manhattan
345/230 kV Transmission Line Project
Table F-3: Weighted, Sorted Z-scores for All Routes

Weights			3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
3741	2271	1,6,9,11,17,18,20,23,26,30,32,48,51	1.46	-0.12	7.42	-5.08	-8.96	2.82	5.26	-1.69	5.80	-2.34	0.61	-1.80	10.89	-4.64	2.45	2.28	2.94	**17.3**
3742	38	1,3,7,11,13,12,14,30,33,37,42,46,48,52,53,54	2.54	-2.45	4.83	11.71	1.29	0.25	5.26	5.61	-5.28	1.63	1.26	0.11	0.50	-7.27	1.06	-1.54	-2.17	**17.3**
3743	589	1,3,7,11,17,21,28,34,36,39,41,43,47,46,48,51	2.79	-0.38	7.33	7.34	-5.49	1.11	3.83	3.31	-2.96	5.01	0.16	2.02	5.50	-9.58	1.06	-1.54	-2.17	**17.3**
3744	779	1,3,7,9,10,13,17,19,22,25,29,36,38,40,42,47,50,54	-0.10	1.18	-2.44	-6.69	3.86	1.97	0.96	-1.38	0.20	-2.17	-0.52	-1.80	3.46	17.10	1.06	-1.54	4.21	**17.4**
3745	2594	2,4,3,6,10,13,17,18,20,23,27,28,31,30,32,46,49,53,54	3.19	1.44	0.51	-2.67	2.13	0.25	2.40	-4.25	4.27	0.82	0.78	0.11	5.38	1.95	-0.33	-1.54	2.94	**17.4**
3746	5195	2,5,19,21,27,26,33,37,40,43,47,49,53,54	-1.51	1.18	1.72	-8.75	-8.11	3.68	-3.34	0.64	4.18	4.54	-1.68	5.84	6.32	5.24	-0.33	6.10	1.66	**17.4**
3747	3438	2,4,3,6,9,11,13,16,20,23,26,31,34,35,37,40,41,45,55	2.87	1.44	1.25	4.35	1.78	1.97	-1.19	2.60	7.99	0.23	0.90	-1.80	0.84	-5.63	-0.33	2.28	-2.17	**17.4**
3748	4419	2,4,7,9,10,13,17,18,20,23,26,31,34,36,39,41,40,42,46,48,51	3.48	1.44	6.40	6.87	-6.88	-1.46	1.68	0.72	-0.48	6.48	0.00	2.02	4.10	-3.98	-3.11	2.28	-2.17	**17.4**
3749	4385	2,4,7,9,10,12,14,30,31,34,38,41,44,55	1.61	-2.19	3.44	3.44	10.10	-0.60	0.96	1.01	-2.05	2.86	0.32	-1.80	1.44	-0.69	-3.11	-1.54	4.21	**17.4**
3750	1252	1,3,7,9,8,14,32,48,52,53,54	1.79	-2.19	18.41	-7.89	-4.89	0.25	9.56	-3.73	-8.47	3.14	0.13	-1.80	14.29	-3.65	1.06	-1.54	2.94	**17.4**
3751	1963	1,6,9,11,13,15,23,26,31,34,36,39,41,43,47,46,48,51	3.45	0.92	8.54	4.91	-6.82	-0.60	0.96	1.56	-0.64	6.44	0.02	2.02	6.97	-12.87	2.45	2.28	-2.17	**17.4**
3752	5082	2,5,19,18,21,27,26,31,34,35,37,42,49,53,54	-1.59	1.70	1.77	-9.04	-6.54	1.97	-4.06	0.64	5.39	4.24	-1.65	5.84	6.09	5.24	-0.33	6.10	1.66	**17.4**
3753	633	1,3,7,9,10,12,14,30,31,34,38,43,47,49,53,54	0.15	-1.41	-2.45	4.65	10.72	1.11	0.96	4.20	-3.36	2.71	0.07	0.11	-3.06	-0.69	1.06	-1.54	4.21	**17.4**
3754	1140	1,3,7,9,10,16,20,23,26,31,34,36,39,41,43,47,46,48,52,53,54	2.35	0.66	3.49	4.80	-2.98	-2.32	0.25	1.83	0.01	6.65	-0.33	0.11	-0.49	2.28	1.06	2.28	-2.17	**17.5**
3755	4364	2,4,7,9,10,12,14,30,31,34,35,37,40,43,47,46,48,52,53,54	3.14	-0.64	4.69	10.64	3.11	1.11	3.83	0.25	-5.15	2.05	1.21	0.11	0.66	-0.69	-3.11	-1.54	-2.17	**17.5**
3756	3274	2,4,3,6,9,11,13,15,23,27,28,34,36,39,45,55	1.69	0.92	7.68	1.98	-1.66	0.25	-1.91	3.46	5.53	14.14	-1.42	-1.80	5.53	-12.87	-0.33	-1.54	-2.17	**17.5**
3757	968	1,3,7,9,10,15,23,27,28,34,38,41,45,55	2.15	-0.12	1.28	-2.23	4.29	1.97	-1.19	4.61	6.18	2.55	0.05	-1.80	1.00	-4.97	1.06	-1.54	4.21	**17.5**
3758	3023	2,4,3,6,10,16,20,23,26,30,32,48,51	1.36	-0.12	6.66	-5.97	-7.43	1.97	3.83	-7.04	4.69	-2.02	0.48	-1.80	9.82	8.20	-0.33	2.28	2.94	**17.5**
3759	4127	2,4,7,11,17,18,20,23,26,30,32,48,51	1.20	-0.12	7.30	-4.79	-8.51	1.97	5.98	2.72	6.12	-2.40	0.46	-1.80	10.58	-3.32	-3.11	2.28	2.94	**17.5**
3760	2090	1,6,9,11,13,16,18,19,22,25,29,39,41,43,50,54	0.22	0.14	4.57	-7.09	-1.62	-2.32	2.40	-2.12	-0.45	5.24	-1.64	-1.80	7.79	15.45	2.45	-1.54	-2.17	**17.5**
3761	2033	1,6,9,11,13,16,18,19,22,24,29,36,35,37,40,41,44,55	2.36	0.14	4.81	-4.02	-0.72	0.25	-1.19	-3.49	0.40	-3.33	0.60	-1.80	9.64	15.12	2.45	-1.54	-2.17	**17.5**
3762	5205	2,5,19,21,28,31,33,37,40,41,44,55	-0.20	-0.12	7.15	-10.17	-7.94	2.82	-3.34	-2.15	4.07	6.12	-1.64	3.93	10.16	5.24	-0.33	2.28	1.66	**17.5**
3763	1764	1,6,10,16,18,21,28,34,38,41,45,55	1.93	-1.15	0.57	0.35	5.63	3.68	-0.47	-3.24	4.62	-0.78	0.75	-1.80	0.39	1.95	2.45	-1.54	4.21	**17.5**
3764	513	1,3,7,11,17,19,22,25,29,39,41,43,47,49,53,54	0.10	0.14	4.53	-6.75	-2.53	-2.32	3.11	4.77	-2.46	4.89	-1.56	0.11	7.65	10.51	1.06	-1.54	-2.17	**17.6**
3765	4785	2,4,7,9,10,16,18,19,22,25,29,39,41,43,47,49,53,54	0.34	0.66	4.01	-8.12	-1.27	-3.18	1.68	-0.59	-3.54	5.21	-1.66	0.11	7.37	23.35	-3.11	-1.54	-2.17	**17.6**
3766	2885	2,4,3,6,10,16,18,19,22,24,29,36,38,40,42,47,50,54	0.60	0.92	-2.07	-3.85	3.72	1.11	-1.19	-6.67	1.61	-2.48	-0.11	-1.80	3.73	21.71	-0.33	-1.54	4.21	**17.6**
3767	4945	2,4,7,9,10,16,20,23,27,28,34,36,39,41,40,42,46,48,51	3.08	-0.12	5.71	6.81	-4.62	-1.46	0.96	0.72	-1.90	8.55	-0.39	2.02	2.77	2.28	-3.11	-1.54	-2.17	**17.6**
3768	1556	1,6,10,15,23,26,31,34,36,39,45,55	1.43	-0.38	7.28	-0.89	-3.62	1.11	-2.62	-1.10	5.84	12.33	-1.27	-1.80	5.01	-6.29	2.45	2.28	-2.17	**17.6**
3769	3819	2,4,7,11,13,15,23,26,31,34,36,39,41,43,47,46,48,51	3.19	0.92	8.42	5.21	-6.37	-1.46	1.68	5.96	-0.33	6.39	-0.14	2.02	6.66	-11.56	-3.11	2.28	-2.17	**17.6**
3770	2494	1,6,9,11,17,21,28,34,36,39,45,55	1.21	-0.90	6.93	3.50	-2.07	2.82	0.25	0.82	4.31	10.70	-0.84	-1.80	4.85	-10.90	2.45	-1.54	-2.17	**17.6**
3771	1289	1,6,10,12,14,30,33,37,42,46,48,51	3.45	-2.97	6.87	11.77	-2.04	1.97	4.55	-4.87	-7.19	2.01	1.52	2.02	3.81	-2.01	2.45	-1.54	-2.17	**17.6**
3772	3687	2,4,3,6,9,11,17,21,27,26,31,34,36,39,41,43,47,46,48,51	3.65	1.70	8.21	8.08	-6.22	0.25	3.11	-1.89	-1.86	3.81	0.62	2.02	7.27	-10.90	-0.33	2.28	-2.17	**17.6**
3773	2431	1,6,9,11,17,21,27,26,31,34,36,39,41,40,42,46,48,51	3.47	0.40	8.11	6.86	-6.94	1.11	3.11	-1.49	-1.86	3.58	0.60	2.02	7.01	-10.90	2.45	2.28	-2.17	**17.6**
3774	1474	1,6,10,13,17,21,27,26,31,34,38,41,45,55	2.41	-0.12	1.32	0.42	3.37	3.68	0.25	-3.24	6.03	-2.10	1.11	-1.80	1.75	-4.31	2.45	2.28	4.21	**17.7**
3775	3946	2,4,7,11,13,16,18,19,22,25,29,39,41,43,50,54	-0.04	0.14	4.45	-6.80	-1.17	-3.18	3.11	2.28	-0.14	5.19	-1.79	-1.80	7.48	16.77	-3.11	-1.54	-2.17	**17.7**
3776	4835	2,4,7,9,10,16,18,21,28,31,30,32,48,51	1.30	0.40	7.44	-7.60	-6.29	3.68	5.98	-5.00	1.48	-3.30	0.57	-1.80	12.06	10.51	-3.11	-1.54	2.94	**17.7**
3777	750	1,3,7,9,10,13,17,19,22,24,29,36,38,40,42,49,53,54	0.42	1.18	-2.13	-4.78	2.05	0.25	-0.47	0.62	-0.37	-3.36	0.03	0.11	3.66	16.77	1.06	-1.54	4.21	**17.7**
3778	3889	2,4,7,11,13,16,18,19,22,24,29,36,35,37,40,41,44,55	2.10	0.14	4.69	-3.72	-0.27	-0.60	-0.47	0.91	0.72	-3.38	0.45	-1.80	9.33	16.44	-3.11	-1.54	-2.17	**17.7**
3779	887	1,3,7,9,10,15,23,26,30,32,48,51	1.34	0.40	8.35	-10.62	-9.10	2.82	4.55	-1.55	4.12	-2.13	0.21	-1.80	12.60	2.28	1.06	2.28	2.94	**17.7**
3780	3328	2,4,3,6,9,11,13,16,18,19,22,25,29,36,38,40,42,49,53,54	0.08	1.44	-1.86	-4.36	5.67	-0.60	-0.47	0.46	-1.36	-3.12	-0.12	0.11	4.07	15.45	-0.33	-1.54	4.21	**17.7**
3781	1226	1,3,7,9,8,14,30,31,34,36,39,41,43,50,54	3.31	-1.15	12.76	-0.41	1.10	-1.46	5.26	-0.77	-11.16	12.81	-0.73	0.11	9.65	-8.92	1.06	-1.54	-2.17	**17.7**
3782	330	1,3,7,11,13,16,20,23,27,28,31,33,37,40,41,45,55	2.42	-0.12	0.55	3.51	0.73	2.82	0.25	7.81	5.68	2.44	0.46	-1.80	0.00	-4.31	1.06	-1.54	-2.17	**17.8**
3783	1883	1,6,8,14,30,31,34,38,43,47,46,48,51	3.35	-2.71	13.47	6.23	0.95	1.11	5.26	-5.39	-13.41	0.24	2.02	3.93	7.88	-10.24	2.45	-1.54	4.21	**17.8**
3784	4350	2,4,7,11,17,21,28,34,36,39,45,55	0.96	-0.90	6.81	3.80	-1.62	1.97	0.96	5.22	4.62	10.64	-0.99	-1.80	4.54	-9.58	-3.11	-1.54	-2.17	**17.8**
3785	3714	2,4,3,6,9,11,17,21,28,31,30,32,46,49,53,54	2.93	0.92	2.10	-2.40	2.51	1.97	4.55	-2.05	3.23	-2.88	1.30	0.11	8.13	-3.65	-0.33	-1.54	2.94	**17.8**
3786	4287	2,4,7,11,17,21,27,26,31,34,36,39,41,40,42,46,48,51	3.21	0.40	7.99	7.15	-6.50	0.25	3.83	2.91	-1.55	3.53	0.45	2.02	6.70	-9.58	-3.11	2.28	-2.17	**17.8**
3787	789	1,3,7,9,10,13,17,19,22,25,29,39,41,40,42,47,50,54	0.51	0.92	4.22	-8.40	-2.82	-0.60	3.11	-2.27	-1.21	5.75	-1.79	-1.80	7.76	17.10	1.06	-1.54	-2.17	**17.8**
3788	1048	1,3,7,9,10,16,18,21,27,26,31,36,39,41,40,42,46,48,52,53,54	2.60	1.44	4.79	3.16	-3.03	-0.60	1.68	-0.93	-2.14	3.79	0.11	0.11	2.42	3.26	1.06	2.28	-2.17	**17.8**
3789	2906	2,4,3,6,10,16,18,19,22,25,29,36,35,37,40,43,47,46,48,52,53,54	2.89	0.92	4.55	-0.23	-2.39	0.25	1.68	-8.05	-4.26	-3.33	0.89	0.11	6.82	22.04	-0.33	-1.54	-2.17	**17.9**
3790	4861	2,4,7,9,10,16,18,21,28,34,36,39,41,43,47,46,48,51	3.02	0.66	6.80	5.97	-4.23	0.25	2.40	-2.04	-4.04	5.33	0.06	2.02	5.21	3.26	-3.11	-1.54	-2.17	**17.9**
3791	2673	2,4,3,6,10,13,17,19,22,25,29,36,35,37,42,46,48,51	3.45	0.66	7.09	1.51	-6.52	0.25	3.11	-8.76	-4.75	-3.52	1.19	2.02	10.45	15.78	-0.33	-1.54	-2.17	**17.9**
3792	1647	1,6,10,16,18,19,22,24,29,39,41,43,47,49,53,54	0.90	-0.12	4.36	-6.25	-3.38	-2.32	0.25	-5.09	-2.13	4.85	-1.20	0.11	7.53	21.71	2.45	-1.54	-2.17	**17.9**
3793	612	1,3,7,9,10,12,14,30,31,34,35,37,42,46,48,52,53,54	2.81	-1.41	4.48	9.90	2.65	0.25	3.83	0.65	-5.15	1.82	1.21	0.11	0.17	-0.69	1.06	-1.54	-2.17	**18.0**
3794	3612	2,4,3,6,9,11,17,19,22,24,29,36,35,37,40,43,47,46,48,52,53,54	3.56	1.70	5.69	3.65	-5.07	0.25	2.40	-3.18	-1.40	-4.03	1.38	0.11	8.12	8.86	-0.33	-1.54	-2.17	**18.0**
3795	4571	2,4,7,9,10,13,17,21,27,26,31,34,36,39,41,43,47,46,48,51	3.50	1.70	7.55	6.03	-6.48	0.25	3.11	-2.04	-2.63	4.02	0.42	2.02	6.57	-2.99	-3.11	2.28	-2.17	**18.0**

Weights			3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
3796	2917	2,4,3,6,10,16,18,19,22,25,29,36,38,41,44,55	1.36	-0.38	3.30	-7.43	4.60	-1.46	-1.19	-7.29	-1.16	-2.52	0.00	-1.80	7.60	22.04	-0.33	-1.54	4.21	**18.0**
3797	2895	2,4,3,6,10,16,18,19,22,24,29,39,41,40,42,47,50,54	1.21	0.66	4.59	-5.57	-2.96	-1.46	0.96	-7.57	0.20	5.45	-1.38	-1.80	8.04	21.71	-0.33	-1.54	-2.17	**18.0**
3798	1068	1,3,7,9,10,16,18,21,27,26,33,37,40,41,45,55	2.65	0.40	1.58	0.22	-0.56	4.54	0.96	0.09	3.87	-2.15	1.06	-1.80	2.74	3.26	1.06	2.28	-2.17	**18.0**
3799	717	1,3,7,9,10,13,17,18,20,23,27,28,34,36,39,41,40,42,46,48,51	3.37	0.92	5.96	6.67	-6.09	-0.60	1.68	1.12	-1.90	8.52	-0.30	2.02	3.39	-3.98	1.06	-1.54	-2.17	**18.1**
3800	3539	2,4,3,6,9,11,17,18,20,23,26,31,34,36,39,41,43,47,46,48,51	3.64	1.70	7.08	9.31	-6.39	-1.46	1.68	0.87	0.28	6.47	0.20	2.02	4.84	-11.89	-0.33	2.28	-2.17	**18.1**
3801	2283	1,6,9,11,17,18,20,23,26,31,34,36,39,41,40,42,46,48,51	3.45	0.40	6.98	8.09	-7.12	-0.60	1.68	1.27	0.28	6.24	0.18	2.02	4.58	-11.89	2.45	2.28	-2.17	**18.1**
3802	5166	2,5,19,21,27,26,31,34,35,37,40,43,50,54	-1.62	1.70	1.82	-9.23	-6.65	3.68	-3.34	-1.44	7.71	4.70	-1.87	3.93	6.11	5.24	-0.33	6.10	1.66	**18.2**
3803	3623	2,4,3,6,9,11,17,19,22,24,29,36,38,41,44,55	2.04	0.40	4.45	-3.55	1.92	-1.46	-0.47	-2.42	1.70	-3.23	0.49	-1.80	8.91	8.86	-0.33	-1.54	4.21	**18.2**
3804	760	1,3,7,9,10,13,17,19,22,24,29,39,41,40,42,49,53,54	1.02	0.92	4.53	-6.49	-4.62	-2.32	1.68	-0.28	-1.78	4.57	-1.24	0.11	7.97	16.77	1.06	-1.54	-2.17	**18.2**
3805	3338	2,4,3,6,9,11,13,16,18,19,22,25,29,41,40,42,49,53,54	0.69	1.18	4.80	-6.07	-1.01	-3.18	1.68	-0.44	-2.78	4.81	-1.39	0.11	8.37	15.45	-0.33	-1.54	-2.17	**18.2**
3806	91	1,3,7,11,13,15,23,27,28,31,30,32,48,51	1.37	0.14	8.62	-8.57	-7.64	2.82	5.26	3.40	3.78	-0.21	0.07	-1.80	12.80	-4.31	1.06	-1.54	2.94	**18.2**
3807	1326	1,6,10,13,17,18,20,23,26,31,34,38,41,45,55	2.39	-0.12	0.19	1.66	3.20	1.97	-1.19	-0.48	8.18	0.56	0.69	-1.80	-0.68	-5.30	2.45	2.28	4.21	**18.2**
3808	4598	2,4,7,9,10,13,17,21,28,31,30,32,46,49,53,54	2.78	0.92	1.44	-4.44	2.25	1.97	4.55	-2.21	2.47	-2.68	1.10	0.11	7.42	4.25	-3.11	-1.54	2.94	**18.2**
3809	1271	1,6,10,12,14,30,31,34,36,39,44,55	0.79	-2.97	9.01	4.57	2.97	-0.60	-0.47	-4.29	-3.81	14.68	-1.30	-1.80	4.75	-2.01	2.45	-1.54	-2.17	**18.2**
3810	137	1,3,7,11,13,16,18,19,22,24,29,36,35,37,40,43,47,49,53,54	0.64	1.44	-1.20	-2.51	0.35	1.11	-0.47	4.10	-0.59	-3.52	0.19	0.11	4.83	16.44	1.06	-1.54	-2.17	**18.3**
3811	1489	1,6,10,13,17,21,28,31,30,32,46,47,50,54	2.83	0.14	1.48	-4.48	1.94	4.54	4.55	-8.69	4.45	-1.86	1.02	-1.80	7.37	2.94	2.45	-1.54	2.94	**18.3**
3812	499	1,3,7,11,17,19,22,25,29,36,38,40,42,47,50,54	-0.38	0.14	-1.98	-5.17	4.07	1.97	1.68	3.58	1.28	-2.47	-0.48	-1.80	3.63	10.51	1.06	-1.54	4.21	**18.3**
3813	4771	2,4,7,9,10,16,18,19,22,25,29,36,38,40,42,47,50,54	-0.14	0.66	-2.51	-6.55	5.33	1.11	0.25	-1.78	0.20	-2.15	-0.58	-1.80	3.35	23.35	-3.11	-1.54	4.21	**18.3**
3814	3035	2,4,3,6,10,16,20,23,26,31,34,36,39,41,40,42,46,48,51	3.35	0.40	6.21	7.20	-5.59	-1.46	0.25	-4.09	-0.83	6.56	0.05	2.02	3.51	0.96	-0.33	2.28	-2.17	**18.3**
3815	4139	2,4,7,11,17,18,20,23,26,31,34,36,39,41,40,42,46,48,51	3.20	0.40	6.86	8.39	-6.67	-1.46	2.40	5.68	0.60	6.19	0.03	2.02	4.27	-10.57	-3.11	2.28	-2.17	**18.3**
3816	117	1,3,7,11,13,15,23,27,28,34,36,39,41,43,47,46,48,51	3.09	0.40	7.98	5.00	-5.58	-0.60	1.68	6.36	-1.74	8.43	-0.44	2.02	5.96	-11.56	1.06	-1.54	-2.17	**18.3**
3817	3304	2,4,3,6,9,11,13,16,18,19,22,24,29,36,38,43,50,54	0.44	1.18	-1.53	-2.39	3.90	-0.60	-0.47	-1.71	2.72	-3.08	0.01	-1.80	4.24	15.12	-0.33	-1.54	4.21	**18.4**
3818	5107	2,5,19,18,21,27,26,33,37,40,43,47,49,53,54	-1.39	1.70	1.81	-8.75	-8.11	3.68	-3.34	0.64	4.18	4.54	-1.66	5.84	6.57	5.24	-0.33	6.10	1.66	**18.4**
3819	4496	2,4,7,9,10,13,17,19,22,24,29,36,35,37,40,43,47,46,48,52,53,54	3.41	1.70	5.03	1.61	-5.33	0.25	2.40	-3.34	-2.16	-3.83	1.18	0.11	7.42	16.77	-3.11	-1.54	-2.17	**18.4**
3820	1852	1,6,10,16,20,23,27,28,34,38,41,45,55	1.99	-1.67	-0.50	1.59	5.46	1.97	-1.91	-0.48	6.76	2.63	0.30	-1.80	-2.01	0.96	2.45	-1.54	4.21	**18.4**
3821	1342	1,6,10,13,17,18,20,23,27,28,31,30,32,46,49,53,54	3.01	0.40	0.42	-3.50	1.63	1.11	2.40	-3.85	4.27	0.79	0.77	0.11	5.16	1.95	2.45	-1.54	2.94	**18.5**
3822	2186	1,6,9,11,13,16,20,23,26,31,34,35,37,40,41,45,55	2.70	0.40	1.16	3.53	1.28	2.82	-1.19	3.00	7.99	0.20	0.89	-1.80	0.61	-5.63	2.45	2.28	-2.17	**18.5**
3823	4423	2,4,7,9,10,13,17,18,20,23,26,31,34,36,39,41,43,47,46,48,51	3.48	1.70	6.42	7.27	-6.66	-1.46	1.68	0.72	-0.48	6.68	0.00	2.02	4.14	-3.98	-3.11	2.28	-2.17	**18.5**
3824	3226	2,4,3,6,9,11,13,15,23,26,31,34,38,41,45,55	2.61	1.18	2.52	0.42	3.99	1.11	-1.19	4.36	8.36	0.30	0.63	-1.80	2.75	-12.87	-0.33	2.28	4.21	**18.5**
3825	5117	2,5,19,18,21,28,31,33,37,40,41,44,55	-0.08	0.40	7.24	-10.17	-7.94	2.82	-3.34	-2.15	4.07	6.12	-1.63	3.93	10.42	5.24	-0.33	2.28	1.66	**18.5**
3826	1022	1,3,7,9,10,16,18,19,22,25,29,36,38,43,50,54	-0.50	-0.12	-2.72	-7.34	4.84	0.25	0.25	-1.38	0.20	-2.48	-0.59	-1.80	2.85	23.35	1.06	-1.54	4.21	**18.6**
3827	4507	2,4,7,9,10,13,17,19,22,24,29,36,38,41,44,55	1.88	0.40	3.79	-5.59	1.65	-1.46	-0.47	-2.58	0.93	-3.02	0.28	-1.80	8.20	16.77	-3.11	-1.54	4.21	**18.6**
3828	899	1,3,7,9,10,15,23,26,31,34,36,39,41,40,42,46,48,51	3.33	0.92	7.90	2.55	-7.26	-0.60	0.96	1.40	-1.40	6.45	-0.21	2.02	6.30	-4.97	1.06	2.28	-2.17	**18.6**
3829	4923	2,4,7,9,10,16,20,23,27,28,31,30,32,48,51	1.36	-0.12	6.37	-6.37	-6.46	1.97	4.55	-2.24	3.62	0.11	0.12	-1.80	9.66	9.52	-3.11	-1.54	2.94	**18.6**
3830	252	1,3,7,11,13,16,18,21,28,34,35,37,40,41,45,55	2.27	0.40	1.67	2.38	2.69	4.54	0.96	5.05	4.74	-1.23	0.88	-1.80	2.00	-3.32	1.06	-1.54	-2.17	**18.6**
3831	755	1,3,7,9,10,13,17,19,22,24,29,36,38,43,47,49,53,54	0.42	1.18	-2.11	-4.38	2.27	0.25	-0.47	0.62	-0.37	-3.16	0.04	0.11	3.70	16.77	1.06	-1.54	4.21	**18.6**
3832	3333	2,4,3,6,9,11,13,16,18,19,22,25,29,36,38,43,47,49,53,54	0.09	1.44	-1.84	-3.96	5.89	-0.60	-0.47	0.46	-1.36	-2.92	-0.11	0.11	4.10	15.45	-0.33	-1.54	4.21	**18.6**
3833	2785	2,4,3,6,10,15,23,26,30,32,46,47,50,54	3.00	1.18	2.40	-6.53	1.10	1.97	2.40	-6.05	7.08	-0.63	0.63	-1.80	8.03	0.96	-0.33	2.28	2.94	**18.6**
3834	2022	1,6,9,11,13,15,23,27,28,34,36,39,45,55	1.52	-0.12	7.59	1.16	-2.16	1.11	-1.91	3.86	5.53	14.11	-1.43	-1.80	5.31	-12.87	2.45	-1.54	-2.17	**18.6**
3835	1771	1,6,10,16,20,23,26,30,32,48,51	1.18	-1.15	6.57	-6.80	-7.94	2.82	3.83	-6.64	4.69	-2.05	0.47	-1.80	9.59	8.20	2.45	2.28	2.94	**18.6**
3836	880	1,3,7,9,10,13,17,21,28,34,38,41,45,55	2.05	-0.12	0.77	0.51	4.61	3.68	0.96	1.56	4.96	-0.87	0.72	-1.80	0.87	-2.99	1.06	-1.54	4.21	**18.6**
3837	470	1,3,7,11,17,19,22,24,29,36,38,40,42,49,53,54	0.14	0.14	-1.67	-3.26	2.26	0.25	0.25	5.57	0.71	-3.65	0.07	0.11	3.83	10.18	1.06	-1.54	4.21	**18.7**
3838	4742	2,4,7,9,10,16,18,19,22,24,29,36,38,40,42,49,53,54	0.37	0.66	-2.20	-4.64	3.52	-0.60	-1.19	0.22	-0.37	-3.33	-0.03	0.11	3.55	23.02	-3.11	-1.54	4.21	**18.7**
3839	1633	1,6,10,16,18,19,22,24,29,36,38,40,42,47,50,54	0.43	-0.12	-2.16	-4.68	3.21	1.97	-1.19	-6.27	1.61	-2.51	-0.12	-1.80	3.50	21.71	2.45	-1.54	4.21	**18.7**
3840	4042	2,4,7,11,13,16,20,23,26,31,34,35,37,40,41,45,55	2.44	0.40	1.04	3.82	1.72	1.97	-0.47	7.41	8.30	0.15	0.74	-1.80	0.30	-4.31	-3.11	2.28	-2.17	**18.7**
3841	4949	2,4,7,9,10,16,20,23,27,28,34,36,39,41,43,47,46,48,51	3.08	0.14	5.73	7.21	-4.40	-1.46	0.96	0.72	-1.90	8.75	-0.38	2.02	2.81	2.28	-3.11	-1.54	-2.17	**18.7**
3842	3413	2,4,3,6,9,11,13,16,18,21,28,34,36,39,41,40,42,46,48,51	3.37	1.44	7.59	8.02	-3.96	0.25	2.40	-1.89	-3.28	4.93	0.33	2.02	6.22	-4.64	-0.33	-1.54	-2.17	**18.8**
3843	2435	1,6,9,11,17,21,27,26,31,34,36,39,41,43,47,46,48,51	3.47	0.66	8.12	7.25	-6.73	1.11	3.11	-1.49	-1.86	3.78	0.61	2.02	7.05	-10.90	2.45	2.28	-2.17	**18.8**
3844	509	1,3,7,11,17,19,22,25,29,39,41,40,42,47,50,54	0.23	-0.12	4.68	-6.89	-2.61	-0.60	3.83	2.68	-0.14	5.46	-1.75	-1.80	7.94	10.51	1.06	-1.54	-2.17	**18.8**
3845	4781	2,4,7,9,10,16,18,19,22,25,29,39,41,40,42,47,50,54	0.46	0.40	4.15	-8.26	-1.35	-1.46	2.40	-2.67	-1.21	5.78	-1.84	-1.80	7.66	23.35	-3.11	-1.54	-2.17	**18.8**
3846	3878	2,4,7,11,13,15,23,27,28,34,36,39,45,55	1.26	-0.12	7.47	1.46	-1.71	0.25	-1.19	8.27	5.85	14.06	-1.58	-1.80	5.00	-11.56	-3.11	-1.54	-2.17	**18.8**
3847	3242	2,4,3,6,9,11,13,15,23,27,28,31,30,32,46,49,53,54	3.23	1.70	2.76	-4.74	2.42	0.25	2.40	0.99	4.45	0.53	0.70	0.11	8.59	-5.63	-0.33	-1.54	2.94	**18.8**
3848	284	1,3,7,11,13,16,20,23,26,30,32,48,52,53,54	0.27	-0.12	4.53	-6.86	-4.61	1.11	4.55	3.83	6.61	-2.42	0.20	-3.71	6.28	2.94	1.06	2.28	2.94	**18.9**
3849	2076	1,6,9,11,13,16,18,19,22,25,29,36,38,40,42,49,53,54	-0.09	0.40	-1.94	-5.18	5.17	0.25	-0.47	0.86	-1.36	-3.15	-0.13	0.11	3.84	15.45	2.45	-1.54	4.21	**18.9**
3850	744	1,3,7,9,10,13,17,19,22,24,29,36,35,37,42,46,48,52,53,54	3.08	0.92	4.82	0.87	-5.79	-0.60	2.40	-2.94	-2.16	-4.05	1.17	0.11	6.93	16.77	1.06	-1.54	-2.17	**18.9**

		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
3851	3350	2,4,3,6,9,11,13,16,18,21,27,26,31,34,35,37,40,41,45,55	3.14	2.48	2.55	3.11	1.95	3.68	0.25	-0.16	5.84	-2.43	1.35	-1.80	3.78	-4.64	-0.33	2.28	-2.17	**18.9**
3852	3322	2,4,3,6,9,11,13,16,18,19,22,25,29,36,35,37,42,46,48,52,53,54	2.75	1.18	5.09	1.29	-2.17	-1.46	2.40	-3.09	-3.15	-3.81	1.03	0.11	7.34	15.45	-0.33	-1.54	-2.17	**18.9**
3853	3177	2,4,3,6,9,11,13,12,14,30,31,34,38,41,44,55	1.97	-1.67	4.25	5.89	10.58	-0.60	0.96	1.16	-1.29	2.65	0.59	-1.80	2.48	-8.59	-0.33	-1.54	4.21	**18.9**
3854	2462	1,6,9,11,17,21,28,31,30,32,46,49,53,54	2.76	-0.12	2.01	-3.22	2.01	2.82	4.55	-1.65	3.23	-2.91	1.28	0.11	7.90	-3.65	2.45	-1.54	2.94	**19.0**
3855	4291	2,4,7,11,17,21,27,26,31,34,36,39,41,43,47,46,48,51	3.22	0.66	8.00	7.55	-6.28	0.25	3.83	2.91	-1.55	3.73	0.46	2.02	6.74	-9.58	-3.11	2.28	-2.17	**19.0**
3856	1052	1,3,7,9,10,16,18,21,27,26,31,34,36,39,41,43,47,46,48,52,53,54	2.61	1.70	4.80	3.56	-2.81	-0.60	1.68	-0.93	-2.14	3.99	0.12	0.11	2.45	3.26	1.06	2.28	-2.17	**19.0**
3857	1654	1,6,10,16,18,19,22,25,29,36,35,37,40,43,47,46,48,52,53,54	2.71	-0.12	4.46	-1.05	-2.89	1.11	1.68	-7.65	-4.26	-3.36	0.88	0.11	6.59	22.04	2.45	-1.54	-2.17	**19.0**
3858	3156	2,4,3,6,9,11,13,12,14,30,31,34,35,37,40,43,47,46,48,52,53,54	3.50	-0.12	5.50	13.09	3.59	1.11	3.83	0.40	-4.38	1.84	1.48	0.11	1.70	-8.59	-0.33	-1.54	-2.17	**19.0**
3859	2935	2,4,3,6,10,16,18,21,27,26,30,32,48,51	1.62	0.92	7.97	-7.21	-7.26	3.68	5.26	-9.80	2.55	-4.68	0.93	-1.80	12.76	9.19	-0.33	2.28	2.94	**19.0**
3860	5169	2,5,19,21,27,26,31,34,35,37,42,47,50,54	-1.58	1.44	1.83	-8.78	-6.40	3.68	-3.34	-1.44	7.71	5.01	-1.84	3.93	6.15	5.24	-0.33	6.10	1.66	**19.0**
3861	1421	1,6,10,13,17,19,22,25,29,36,35,37,42,46,48,51	3.27	-0.38	7.00	0.68	-7.03	1.11	3.11	-8.36	-4.75	-3.55	1.18	2.02	10.22	15.78	2.45	-1.54	-2.17	**19.0**
3862	3932	2,4,7,11,13,16,18,19,22,25,29,36,38,40,42,49,53,54	-0.35	0.40	-2.06	-4.89	5.61	-0.60	0.25	5.27	-1.05	-3.20	-0.28	0.11	3.53	16.77	-3.11	-1.54	4.21	**19.1**
3863	437	1,3,7,11,17,18,20,23,27,28,34,36,39,41,40,42,46,48,51	3.09	-0.12	6.42	8.18	-5.88	-0.60	2.40	6.08	-0.82	8.23	-0.27	2.02	3.57	-10.57	1.06	-1.54	-2.17	**19.1**
3864	695	1,3,7,9,10,13,17,18,20,23,27,28,31,30,32,48,51	1.65	0.92	6.62	-6.51	-7.93	2.82	5.26	-1.84	3.62	0.08	0.21	-1.80	10.28	3.26	1.06	-1.54	2.94	**19.1**
3865	480	1,3,7,11,17,19,22,24,29,39,41,40,42,49,53,54	0.74	-0.12	4.99	-4.98	-4.41	-2.32	2.40	4.68	-0.71	4.28	-1.20	0.11	8.14	10.18	1.06	-1.54	-2.17	**19.1**
3866	4752	2,4,7,9,10,16,18,19,22,24,29,39,41,40,42,49,53,54	0.97	0.40	4.46	-6.35	-3.16	-3.18	0.96	-0.68	-1.78	4.60	-1.30	0.11	7.86	23.02	-3.11	-1.54	-2.17	**19.1**
3867	2360	1,6,9,11,17,19,22,24,29,36,35,37,40,43,47,46,48,52,53,54	3.39	0.66	5.60	2.83	-5.57	1.11	2.40	-2.78	-1.40	-4.06	1.36	0.11	7.90	8.86	2.45	-1.54	-2.17	**19.1**
3868	4318	2,4,7,11,17,21,28,31,30,32,46,49,53,54	2.50	-0.12	1.89	-2.92	2.46	1.97	5.26	2.75	3.54	-2.97	1.13	0.11	7.59	-2.33	-3.11	-1.54	2.94	**19.1**
3869	1665	1,6,10,16,18,19,22,25,29,36,38,41,44,55	1.19	-1.41	3.22	-8.25	4.10	-0.60	-1.19	-6.89	-1.16	-2.55	-0.01	-1.80	7.38	22.04	2.45	-1.54	4.21	**19.2**
3870	1643	1,6,10,16,18,19,22,24,29,39,41,40,42,47,50,54	1.03	-0.38	4.50	-6.39	-3.46	-0.60	0.96	-7.17	0.20	5.42	-1.39	-1.80	7.81	21.71	2.45	-1.54	-2.17	**19.2**
3871	627	1,3,7,9,10,12,14,30,31,34,38,40,42,47,50,54	0.28	-1.15	-2.31	4.51	10.64	2.82	1.68	2.12	-1.03	3.28	-0.12	-1.80	-2.78	-0.69	1.06	-1.54	4.21	**19.2**
3872	5078	2,5,19,18,21,27,26,31,34,35,37,40,43,50,54	-1.49	2.22	1.91	-9.23	-6.65	3.68	-3.34	-1.44	7.71	4.70	-1.85	3.93	6.36	5.24	-0.33	6.10	1.66	**19.2**
3873	638	1,3,7,9,10,12,14,30,33,37,40,43,47,46,48,52,53,54	3.01	-1.15	4.52	10.19	1.08	1.97	4.55	0.65	-6.36	2.12	1.19	0.11	0.66	-0.69	1.06	-1.54	-2.17	**19.2**
3874	5215	2,5,19,21,28,34,35,37,40,41,44,55	-0.29	-0.12	7.20	-10.06	-6.15	2.82	-4.06	-2.15	5.28	5.87	-1.67	3.93	9.76	5.24	-0.33	2.28	1.66	**19.2**
3875	4985	2,4,7,9,8,14,30,31,34,38,40,42,46,48,51	3.42	-1.93	13.57	6.13	1.18	0.25	5.98	-0.98	-13.06	-0.01	1.93	3.93	8.21	-8.92	-3.11	-1.54	4.21	**19.2**
3876	721	1,3,7,9,10,13,17,18,20,23,27,28,34,36,39,41,43,47,46,48,51	3.38	1.18	5.98	7.07	-5.87	-0.60	1.68	1.12	-1.90	8.72	-0.30	2.02	3.43	-3.98	1.06	-1.54	-2.17	**19.3**
3877	2287	1,6,9,11,17,18,20,23,26,31,34,36,39,41,43,47,46,48,51	3.46	0.66	6.99	8.49	-6.90	-0.60	1.68	1.27	0.28	6.44	0.19	2.02	4.62	-11.89	2.45	2.28	-2.17	**19.3**
3878	2371	1,6,9,11,17,19,22,24,29,36,38,41,44,55	1.86	-0.64	4.36	-4.37	1.41	-0.60	-0.47	-2.02	1.70	-3.26	0.47	-1.80	8.68	8.86	2.45	-1.54	4.21	**19.3**
3879	4216	2,4,7,11,17,19,22,24,29,36,35,37,40,43,47,46,48,52,53,54	3.13	0.66	5.48	3.13	-5.13	0.25	3.11	1.62	-1.08	-4.12	1.21	0.11	7.59	10.18	-3.11	-1.54	-2.17	**19.3**
3880	2086	1,6,9,11,13,16,18,19,22,25,29,39,41,40,42,49,53,54	0.51	0.14	4.72	-6.90	-1.51	-2.32	1.68	-0.04	-2.78	4.78	-1.40	0.11	8.15	15.45	2.45	-1.54	-2.17	**19.3**
3881	3312	2,4,3,6,9,11,13,16,18,19,22,24,29,39,41,43,50,54	1.04	1.44	5.13	-4.10	-2.78	-3.18	1.68	-2.61	1.30	4.85	-1.26	-1.80	8.54	15.12	-0.33	-1.54	-2.17	**19.3**
3882	3598	2,4,3,6,9,11,17,18,20,23,27,28,34,36,39,45,55	1.70	0.66	6.13	5.56	-1.73	0.25	-1.19	3.18	6.45	14.14	-1.24	-1.80	3.18	-11.89	-0.33	-1.54	-2.17	**19.4**
3883	24	1,3,7,11,13,12,14,30,31,34,38,40,42,49,53,54	0.07	-1.93	-1.87	6.17	10.93	1.11	1.68	9.16	-2.28	2.22	0.17	0.11	-2.59	-7.27	1.06	-1.54	4.21	**19.4**
3884	340	1,3,7,11,13,16,20,23,27,28,34,35,37,40,41,45,55	2.33	-0.12	0.60	3.62	2.51	2.82	-0.47	7.81	6.89	2.18	0.44	-1.80	-0.40	-4.31	1.06	-1.54	-2.17	**19.4**
3885	3039	2,4,3,6,10,16,20,23,26,31,34,36,39,41,43,47,46,48,51	3.36	0.66	6.22	7.60	-5.37	-1.46	0.25	-4.09	-0.83	6.76	0.06	2.02	3.55	0.96	-0.33	2.28	-2.17	**19.5**
3886	4143	2,4,7,11,17,18,20,23,26,31,34,36,39,41,43,47,46,48,51	3.20	0.66	6.87	8.79	-6.45	-1.46	2.40	5.68	0.60	6.39	0.04	2.02	4.31	-10.57	-3.11	2.28	-2.17	**19.5**
3887	1783	1,6,10,16,20,23,26,31,34,36,39,41,40,42,46,48,51	3.18	-0.64	6.12	6.38	-6.09	-0.60	0.25	-3.69	-0.83	6.53	0.04	2.02	3.29	0.96	2.45	2.28	-2.17	**19.5**
3888	2052	1,6,9,11,13,16,18,19,22,24,29,36,38,43,50,54	0.26	0.14	-1.62	-3.21	3.40	0.25	-0.47	-1.31	2.72	-3.11	0.00	-1.80	4.01	15.12	2.45	-1.54	4.21	**19.5**
3889	4227	2,4,7,11,17,19,22,24,29,36,38,41,44,55	1.60	-0.64	4.24	-4.08	1.86	-1.46	0.25	2.38	2.01	-3.31	0.32	-1.80	8.37	10.18	-3.11	-1.54	4.21	**19.5**
3890	2698	2,4,3,6,10,13,17,21,27,26,30,32,46,49,53,54	3.10	1.44	1.97	-4.05	1.28	1.97	3.83	-7.01	3.54	-4.06	1.45	0.11	8.12	2.94	-0.33	2.28	2.94	**19.5**
3891	3942	2,4,7,11,13,16,18,19,22,25,29,39,41,40,42,49,53,54	0.25	0.14	4.60	-6.60	-1.06	-3.18	2.40	4.37	-2.46	4.73	-1.55	0.11	7.84	16.77	-3.11	-1.54	-2.17	**19.5**
3892	475	1,3,7,11,17,19,22,24,29,36,38,43,47,49,53,54	0.14	0.14	-1.66	-2.87	2.48	0.25	0.25	5.57	0.71	-3.45	0.07	0.11	3.87	10.18	1.06	-1.54	4.21	**19.5**
3893	1030	1,3,7,9,10,16,18,19,22,25,29,39,41,43,50,54	0.10	0.14	3.94	-9.06	-1.84	-2.32	2.40	-2.27	-1.21	5.45	-1.86	-1.80	7.16	23.35	1.06	-1.54	-2.17	**19.5**
3894	4747	2,4,7,9,10,16,18,19,22,24,29,36,38,43,47,49,53,54	0.38	0.66	-2.18	-4.24	3.74	-0.60	-1.19	0.22	-0.37	-3.13	-0.02	0.11	3.59	23.02	-3.11	-1.54	4.21	**19.5**
3895	973	1,3,7,9,10,16,18,19,22,24,29,36,35,37,40,41,44,55	2.25	0.14	4.18	-5.98	-0.94	0.25	-1.19	-3.65	-0.36	-3.12	0.38	-1.80	9.01	23.02	1.06	-1.54	-2.17	**19.5**
3896	1222	1,3,7,9,8,14,30,31,34,36,39,41,40,42,49,53,54	3.61	-1.15	12.90	-0.21	1.21	-1.46	4.55	1.31	-13.49	12.35	-0.49	2.02	10.00	-8.92	1.06	-1.54	-2.17	**19.6**
3897	763	1,3,7,9,10,13,17,19,22,24,29,39,41,43,47,49,53,54	1.03	1.44	4.55	-6.10	-4.40	-2.32	1.68	-0.28	-1.78	4.77	-1.23	0.11	8.00	16.77	1.06	-1.54	-2.17	**19.6**
3898	3341	2,4,3,6,9,11,13,16,18,19,22,25,29,39,41,43,47,49,53,54	0.69	1.70	4.82	-5.68	-0.79	-3.18	1.68	-0.44	-2.78	5.01	-1.38	0.11	8.41	15.45	-0.33	-1.54	-2.17	**19.6**
3899	600	1,3,7,11,17,21,28,34,38,41,45,55	1.77	-1.15	1.22	2.02	4.82	3.68	1.68	6.52	6.04	-1.16	0.75	-1.80	1.05	-9.58	1.06	-1.54	4.21	**19.6**
3900	3501	2,4,3,6,9,11,13,16,20,23,27,28,34,36,39,41,40,42,46,48,51	3.43	0.92	6.52	9.25	-4.13	-1.46	0.96	0.87	-1.13	8.34	-0.11	2.02	3.81	-5.63	-0.33	-1.54	-2.17	**19.6**
3901	1974	1,6,9,11,13,15,23,26,31,34,38,41,45,55	2.44	0.14	2.44	-0.41	3.49	1.97	-1.19	4.76	8.36	0.27	0.61	-1.80	2.52	-12.87	2.45	2.28	4.21	**19.7**
3902	3908	2,4,7,11,13,16,18,19,22,24,29,36,38,43,50,54	0.00	0.14	-1.74	-2.91	3.84	-0.60	0.25	3.09	3.03	-3.16	-0.16	-1.80	3.70	16.44	-3.11	-1.54	4.21	**19.7**
3903	296	1,3,7,11,13,16,20,23,26,31,34,36,39,41,40,42,46,48,52,53,54	2.27	0.40	4.08	6.32	-2.76	-2.32	0.96	6.78	1.09	6.16	-0.23	0.11	-0.02	-4.31	1.06	2.28	-2.17	**19.7**
3904	903	1,3,7,9,10,15,23,26,31,34,36,39,41,43,47,46,48,51	3.34	1.18	7.91	2.95	-7.04	-0.60	0.96	1.40	-1.40	6.65	-0.21	2.02	6.34	-4.97	1.06	2.28	-2.17	**19.7**
3905	4685	2,4,7,9,10,15,23,27,28,31,30,32,46,47,50,54	3.00	1.18	2.11	-6.92	2.07	1.97	3.11	-1.24	6.01	1.50	0.27	-1.80	7.87	2.28	-3.11	-1.54	2.94	**19.7**

Table F-3: Weighted, Sorted Z-scores for All Routes

Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
3906	4642	2,4,7,9,10,15,23,26,30,32,46,49,53,54	2.77	0.92	2.28	-7.32	0.90	0.25	2.40	0.84	5.10	-1.48	0.69	0.11	7.85	2.28	-3.11	2.28	2.94	**19.7**
3907	4482	2,4,7,9,10,13,17,18,20,23,27,28,34,36,39,45,55	1.55	0.66	5.47	3.52	-2.00	0.25	-1.19	3.02	5.69	14.35	-1.44	-1.80	2.47	-3.98	-3.11	-1.54	-2.17	**19.7**
3908	3391	2,4,3,6,9,11,13,16,18,21,28,31,30,32,48,51	1.66	1.44	8.25	-5.16	-5.80	3.68	5.98	-4.85	2.24	-3.51	0.84	-1.80	13.10	2.61	-0.33	-1.54	2.94	**19.7**
3909	2081	1,6,9,11,13,16,18,19,22,25,29,36,38,43,47,49,53,54	-0.09	0.40	-1.93	-4.78	5.39	0.25	-0.47	0.86	-1.36	-2.95	-0.13	0.11	3.88	15.45	2.45	-1.54	4.21	**19.7**
3910	1533	1,6,10,15,23,26,30,32,46,47,50,54	2.82	0.14	2.31	-7.36	0.60	2.82	2.40	-5.65	7.08	-0.66	0.61	-1.80	7.81	0.96	2.45	2.28	2.94	**19.8**
3911	464	1,3,7,11,17,19,22,24,29,36,35,37,42,46,48,52,53,54	2.80	-0.12	5.27	2.39	-5.58	-0.60	3.11	2.02	-1.08	-4.34	1.21	0.11	7.11	10.18	1.06	-1.54	-2.17	**19.8**
3912	3010	2,4,3,6,10,16,18,21,28,34,36,39,45,55	1.36	0.14	6.35	2.61	-0.54	1.97	-1.19	-4.54	3.20	11.02	-0.94	-1.80	4.29	1.95	-0.33	-1.54	-2.17	**19.8**
3913	4736	2,4,7,9,10,16,18,19,22,24,29,36,35,37,42,46,48,52,53,54	3.04	0.40	4.75	1.01	-4.32	-1.46	1.68	-3.34	-2.16	-4.02	1.12	0.11	6.82	23.02	-3.11	-1.54	-2.17	**19.8**
3914	2947	2,4,3,6,10,16,18,21,27,26,31,34,36,39,41,40,42,46,48,51	3.62	1.44	7.52	5.96	-5.42	0.25	1.68	-6.85	-2.97	3.90	0.50	2.02	6.46	1.95	-0.33	2.28	-2.17	**19.8**
3915	4991	2,4,7,9,8,14,30,31,34,38,43,47,46,48,51	3.43	-2.19	13.59	6.53	1.40	0.25	5.98	-0.98	-13.06	0.18	1.93	3.93	8.25	-8.92	-3.11	-1.54	4.21	**19.9**
3916	3830	2,4,7,11,13,15,23,26,31,34,38,41,45,55	2.18	0.14	2.32	-0.11	3.93	1.11	-0.47	9.16	8.68	0.22	0.46	-1.80	2.21	-11.56	-3.11	2.28	4.21	**19.9**
3917	3698	2,4,3,6,9,11,17,21,27,26,31,34,38,41,45,55	2.64	0.92	2.10	2.76	4.08	2.82	0.96	1.31	7.14	-2.36	1.22	-1.80	2.82	-10.90	-0.33	2.28	4.21	**19.9**
3918	3417	2,4,3,6,9,11,13,16,18,21,28,34,36,39,41,43,47,46,48,51	3.38	1.70	7.61	8.41	-3.74	0.25	2.40	-1.89	-3.28	5.13	0.34	2.02	6.25	-4.64	-0.33	-1.54	-2.17	**19.9**
3919	2161	1,6,9,11,13,16,18,21,28,34,36,39,41,40,42,46,48,51	3.20	0.40	7.51	7.19	-4.47	1.11	2.40	-1.49	-3.28	4.90	0.32	2.02	5.99	-4.64	2.45	-1.54	-2.17	**19.9**
3920	316	1,3,7,11,13,16,20,23,26,33,37,40,41,45,55	2.31	-0.64	0.87	3.37	-0.30	2.82	0.25	7.81	7.10	0.22	0.72	-1.80	0.30	-4.31	1.06	2.28	-2.17	**19.9**
3921	3151	2,4,3,6,8,14,32,48,51	2.80	-1.67	21.14	-5.09	-7.29	1.11	9.56	-9.64	-9.30	3.25	0.51	0.11	18.33	-4.97	-0.33	-1.54	2.94	**19.9**
3922	3937	2,4,7,11,13,16,18,19,22,25,29,36,38,43,47,49,53,54	-0.34	0.40	-2.05	-4.49	5.83	-0.60	0.25	5.27	-1.05	-3.00	-0.28	0.11	3.57	16.77	-3.11	-1.54	4.21	**19.9**
3923	163	1,3,7,11,13,16,18,19,22,25,29,36,35,37,40,41,44,55	1.53	-0.12	4.32	-6.23	1.15	0.25	0.25	1.40	-1.03	-2.99	0.12	-1.80	8.99	16.77	1.06	-1.54	-2.17	**20.0**
3924	1990	1,6,9,11,13,15,23,27,28,31,30,32,46,49,53,54	3.06	0.66	2.67	-5.56	1.91	1.11	2.40	1.39	4.45	0.50	0.69	0.11	8.36	-5.63	2.45	-1.54	2.94	**20.0**
3925	2511	2,4,3,6,10,12,14,30,31,34,35,37,42,46,48,51	3.82	-1.41	7.21	12.70	0.26	1.11	3.83	-5.27	-5.98	1.93	1.59	2.02	4.21	-2.01	-0.33	-1.54	-2.17	**20.0**
3926	2720	2,4,3,6,10,13,17,21,27,26,31,34,36,39,45,55	1.84	1.18	7.09	2.67	-2.80	1.97	-0.47	-4.54	4.62	9.70	-0.59	-1.80	5.64	-4.31	-0.33	2.28	-2.17	**20.0**
3927	2593	2,4,3,6,10,13,17,18,20,23,27,28,31,30,32,46,47,50,54	3.32	1.70	0.67	-2.42	2.28	1.97	3.11	-6.33	6.59	1.58	0.62	-1.80	5.70	1.95	-0.33	-1.54	2.94	**20.0**
3928	2550	2,4,3,6,10,13,17,18,20,23,26,30,32,46,49,53,54	3.08	1.44	0.84	-2.81	1.11	0.25	2.40	-4.25	5.68	-1.40	1.04	0.11	5.69	1.95	-0.33	2.28	2.94	**20.0**
3929	2098	1,6,9,11,13,16,18,21,27,26,31,34,35,37,40,41,45,55	2.96	1.44	2.47	2.29	1.45	4.54	0.25	0.24	5.84	-2.46	1.33	-1.80	3.56	-4.64	2.45	2.28	-2.17	**20.0**
3930	2070	1,6,9,11,13,16,18,19,22,25,29,36,35,37,42,46,48,52,53,54	2.57	0.14	5.00	0.47	-2.68	-0.60	2.40	-2.69	-3.15	-3.84	1.01	0.11	7.11	15.45	2.45	-1.54	-2.17	**20.0**
3931	5081	2,5,19,18,21,27,26,31,34,35,37,42,47,50,54	-1.46	1.96	1.92	-8.78	-6.40	3.68	-3.34	-1.44	7.71	5.01	-1.83	3.93	6.41	5.24	-0.33	6.10	1.66	**20.0**
3932	1925	1,6,9,11,13,12,14,30,31,34,38,41,44,55	1.79	-2.71	4.16	5.06	10.08	0.25	0.96	1.56	-1.29	2.62	0.58	-1.80	2.26	-8.59	2.45	-1.54	4.21	**20.1**
3933	415	1,3,7,11,17,18,20,23,27,28,31,30,32,48,51	1.38	-0.12	7.07	-4.99	-7.72	2.82	5.98	3.12	4.70	-0.21	0.24	-1.80	10.45	-3.32	1.06	-1.54	2.94	**20.1**
3934	4017	2,4,7,11,13,16,18,21,28,34,36,39,41,40,42,46,48,51	2.94	0.40	7.39	7.49	-4.02	0.25	3.11	2.91	-2.96	4.85	0.17	2.02	5.68	-3.32	-3.11	-1.54	-2.17	**20.1**
3935	4872	2,4,7,9,10,16,18,21,28,34,38,41,45,55	2.01	-0.12	0.69	0.65	6.08	2.82	0.25	1.16	4.96	-0.84	0.66	-1.80	0.76	3.26	-3.11	-1.54	4.21	**20.1**
3936	1904	1,6,9,11,13,12,14,30,31,34,35,37,40,43,47,46,48,52,53,54	3.32	-1.15	5.41	12.26	3.09	1.97	3.83	0.80	-4.38	1.81	1.47	0.11	1.47	-8.59	2.45	-1.54	-2.17	**20.1**
3937	1683	1,6,10,16,18,21,27,26,30,32,48,51	1.44	-0.12	7.88	-8.04	-7.77	4.54	5.26	-9.40	2.55	-4.71	0.91	-1.80	12.54	9.19	2.45	2.28	2.94	**20.1**
3938	3846	2,4,7,11,13,15,23,27,28,31,30,32,46,49,53,54	2.80	0.66	2.55	-5.26	2.36	0.25	3.11	5.80	4.77	0.45	0.54	0.11	8.05	-4.31	-3.11	-1.54	2.94	**20.2**
3939	4664	2,4,7,9,10,15,23,26,31,34,36,39,45,55	1.51	0.66	7.40	-0.60	-3.17	0.25	-1.91	3.31	6.18	12.28	-1.36	-1.80	5.38	-4.97	-3.11	2.28	-2.17	**20.2**
3940	4397	2,4,7,9,10,12,14,30,33,37,42,46,48,51	3.53	-1.93	6.99	12.07	-1.59	1.11	5.26	-0.46	-6.84	1.95	1.43	2.02	4.18	-0.69	-3.11	-1.54	-2.17	**20.2**
3941	441	1,3,7,11,17,18,20,23,27,28,34,36,39,41,43,47,46,48,51	3.10	0.14	6.43	8.58	-5.66	-0.60	2.40	6.08	-0.82	8.43	-0.26	2.02	3.60	-10.57	1.06	-1.54	-2.17	**20.2**
3942	3954	2,4,7,11,13,16,18,21,27,26,31,34,36,41,45,55	2.71	1.44	2.35	2.59	1.90	3.68	0.96	4.65	6.16	-2.51	1.18	-1.80	3.25	-3.32	-3.11	2.28	-2.17	**20.2**
3943	5127	2,5,19,18,21,28,34,35,37,40,41,44,55	-0.17	0.40	7.29	-10.06	-6.15	2.82	-4.06	-2.15	5.28	5.87	-1.65	3.93	10.02	5.24	-0.33	2.28	1.66	**20.2**
3944	3926	2,4,7,11,13,16,18,19,22,25,29,36,35,37,42,46,48,52,53,54	2.32	0.14	4.88	0.77	-2.23	-1.46	3.11	1.71	-2.84	-3.90	0.86	0.11	6.80	16.77	-3.11	-1.54	-2.17	**20.2**
3945	3781	2,4,7,11,13,12,14,30,31,34,38,41,44,55	1.54	-2.71	4.04	5.36	10.53	-0.60	1.68	5.97	-0.97	2.57	0.43	-1.80	1.95	-7.27	-3.11	-1.54	4.21	**20.2**
3946	4582	2,4,7,9,10,13,17,21,27,26,31,34,38,41,45,55	2.49	0.92	1.44	0.72	3.82	2.82	0.96	1.16	6.37	-2.15	1.02	-1.80	2.11	-2.99	-3.11	2.28	4.21	**20.3**
3947	29	1,3,7,11,13,12,14,30,31,34,38,43,47,49,53,54	0.08	-1.93	-1.85	6.57	11.15	1.11	1.68	9.16	-2.28	2.42	0.18	0.11	-2.56	-7.27	1.06	-1.54	4.21	**20.3**
3948	749	1,3,7,9,10,13,17,19,22,24,29,36,38,40,42,47,50,54	0.55	1.44	-1.97	-4.52	2.20	1.97	0.25	-1.47	1.95	-2.59	-0.15	-1.80	3.98	16.77	1.06	-1.54	4.21	**20.3**
3949	3760	2,4,7,11,13,12,14,30,31,34,35,37,40,43,47,46,48,52,53,54	3.07	-1.15	5.29	12.56	3.54	1.11	4.55	5.21	-4.07	1.76	1.32	0.11	1.16	-7.27	-3.11	-1.54	-2.17	**20.3**
3950	3327	2,4,3,6,9,11,13,16,18,19,22,25,29,36,38,40,42,47,50,54	0.22	1.70	-1.70	-4.10	5.81	1.11	0.25	-1.62	0.96	-2.35	-0.30	-1.80	4.39	15.45	-0.33	-1.54	4.21	**20.3**
3951	196	1,3,7,11,13,16,18,21,27,26,30,32,48,52,53,54	0.53	0.92	5.84	-8.09	-4.44	2.82	5.98	1.07	4.46	-5.09	0.65	-3.71	9.22	3.92	1.06	2.28	2.94	**20.4**
3952	3550	2,4,3,6,9,11,17,18,20,23,26,31,34,38,41,45,55	2.62	0.92	0.97	3.99	3.91	1.11	-0.47	4.07	9.28	0.30	0.80	-1.80	0.39	-11.89	-0.33	2.28	4.21	**20.4**
3953	3713	2,4,3,6,9,11,17,21,28,31,30,32,46,47,50,54	3.06	1.18	2.25	-2.14	2.65	3.68	5.26	-4.14	5.55	-2.12	1.14	-1.80	8.45	-3.65	-0.33	-1.54	2.94	**20.5**
3954	2060	1,6,9,11,13,16,18,19,22,24,29,39,41,43,50,54	0.86	0.40	5.04	-4.93	-3.28	-2.32	1.68	-2.21	1.30	4.82	-1.27	-1.80	8.32	15.12	2.45	-1.54	-2.17	**20.5**
3955	2572	2,4,3,6,10,13,17,18,20,23,26,31,34,36,39,45,55	1.82	1.18	5.96	3.91	-2.97	0.25	-1.91	-1.78	6.76	12.36	-1.01	-1.80	3.21	-5.30	-0.33	2.28	-2.17	**20.5**
3956	2346	1,6,9,11,17,18,20,23,27,28,34,36,39,45,55	1.52	-0.38	6.04	4.74	-2.24	1.11	-1.19	3.58	6.45	14.11	-1.26	-1.80	2.95	-11.89	2.45	-1.54	-2.17	**20.5**
3957	483	1,3,7,11,17,19,22,24,29,39,41,43,47,49,53,54	0.75	0.40	5.00	-4.58	-4.19	-2.32	2.40	4.68	-0.71	4.48	-1.20	0.11	8.18	10.18	1.06	-1.54	-2.17	**20.5**
3958	4755	2,4,7,9,10,16,18,19,22,24,29,39,41,43,47,49,53,54	0.98	0.92	4.48	-5.96	-2.94	-3.18	0.96	-0.68	-1.78	4.80	-1.29	0.11	7.90	23.02	-3.11	-1.54	-2.17	**20.5**
3959	1126	1,3,7,9,10,16,20,23,26,31,34,35,37,40,41,45,55	2.59	0.40	0.53	1.56	1.06	2.82	-1.19	2.85	7.23	0.41	0.66	-1.80	-0.02	2.28	1.06	2.28	-2.17	**20.5**
3960	1787	1,6,10,16,20,23,26,31,34,36,39,41,43,47,46,48,51	3.18	-0.38	6.14	6.77	-5.87	-0.60	0.25	-3.69	-0.83	6.73	0.04	2.02	3.33	0.96	2.45	2.28	-2.17	**20.6**

Table F-3: Weighted, Sorted Z-scores for All Routes

Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
3961	128	1,3,7,11,13,15,23,27,28,34,38,41,45,55	2.07	-0.38	1.88	-0.32	4.73	1.97	-0.47	9.56	7.26	2.26	0.16	-1.80	1.51	-11.56	1.06	-1.54	4.21	**20.6**
3962	3479	2,4,3,6,9,11,13,16,20,23,27,28,31,30,32,48,51	1.72	0.92	7.17	-3.92	-5.97	1.97	4.55	-2.08	4.39	-0.10	0.39	-1.80	10.69	1.62	-0.33	-1.54	2.94	**20.6**
3963	770	1,3,7,9,10,13,17,19,22,25,29,36,35,37,40,43,47,46,48,52,53,54	2.84	1.44	4.65	-0.90	-3.91	1.11	3.11	-2.85	-3.92	-3.44	0.85	0.11	7.07	17.10	1.06	-1.54	-2.17	**20.6**
3964	1446	1,6,10,13,17,21,27,26,30,32,46,49,53,54	2.92	0.40	1.88	-4.87	0.77	2.82	3.83	-6.61	3.54	-4.09	1.44	0.11	7.89	2.94	2.45	2.28	2.94	**20.6**
3965	3916	2,4,7,11,13,16,18,19,22,24,29,39,41,43,50,54	0.61	0.40	4.92	-4.63	-2.83	-3.18	2.40	2.19	1.62	4.77	-1.42	-1.80	8.01	16.44	-3.11	-1.54	-2.17	**20.7**
3966	3098	2,4,3,6,10,16,20,23,27,28,34,36,39,45,55	1.42	-0.38	5.27	3.84	-0.71	0.25	-2.62	-1.78	5.35	14.43	-1.39	-1.80	1.88	0.96	-0.33	-1.54	-2.17	**20.7**
3967	4202	2,4,7,11,17,18,20,23,27,28,34,36,39,45,55	1.27	-0.38	5.92	5.03	-1.79	0.25	-0.47	7.98	6.77	14.06	-1.41	-1.80	2.64	-10.57	-3.11	-1.54	-2.17	**20.7**
3968	3566	2,4,3,6,9,11,17,18,20,23,27,28,31,30,32,46,49,53,54	3.24	1.44	1.20	-1.16	2.34	0.25	3.11	0.71	5.37	0.53	0.88	0.11	6.23	-4.64	-0.33	-1.54	2.94	**20.7**
3969	3298	2,4,3,6,9,11,13,16,18,19,22,24,29,36,38,40,42,49,53,54	0.73	1.70	-1.39	-2.19	4.01	-0.60	-1.19	0.37	0.39	-3.54	0.25	0.11	4.59	15.12	-0.33	-1.54	4.21	**20.7**
3970	2089	1,6,9,11,13,16,18,19,22,25,29,39,41,43,47,49,53,54	0.52	0.66	4.73	-6.50	-1.29	-2.32	1.68	-0.04	-2.78	4.98	-1.40	0.11	8.19	15.45	2.45	-1.54	-2.17	**20.7**
3971	3505	2,4,3,6,9,11,13,16,20,23,27,28,34,36,39,41,43,47,46,48,51	3.44	1.18	6.53	9.65	-3.91	-1.46	0.96	0.87	-1.13	8.54	-0.11	2.02	3.85	-5.63	-0.33	-1.54	-2.17	**20.8**
3972	2249	1,6,9,11,13,16,20,23,27,28,34,36,39,41,40,42,46,48,51	3.26	-0.12	6.43	8.43	-4.64	-0.60	0.96	1.27	-1.13	8.31	-0.13	2.02	3.59	-5.63	2.45	-1.54	-2.17	**20.8**
3973	4434	2,4,7,9,10,13,17,18,20,23,26,31,34,38,41,45,55	2.47	0.92	0.31	1.95	3.65	1.11	-0.47	3.92	8.52	0.51	0.60	-1.80	-0.32	-3.98	-3.11	2.28	4.21	**20.8**
3974	781	1,3,7,9,10,13,17,19,22,25,29,36,38,41,44,55	1.31	0.14	3.41	-8.10	3.08	-0.60	0.25	-2.09	-0.82	-2.63	-0.04	-1.80	7.86	17.10	1.06	-1.54	4.21	**20.8**
3975	759	1,3,7,9,10,13,17,19,22,24,29,39,41,40,42,47,50,54	1.15	1.18	4.69	-6.24	-4.48	-0.60	2.40	-2.37	0.54	5.33	-1.42	-1.80	8.29	16.77	1.06	-1.54	-2.17	**20.8**
3976	3337	2,4,3,6,9,11,13,16,18,19,22,25,29,39,41,40,42,47,50,54	0.82	1.44	4.96	-5.82	-0.86	-1.46	2.40	-2.52	-0.45	5.57	-1.57	-1.80	8.69	15.45	-0.33	-1.54	-2.17	**20.8**
3977	2876	2,4,3,6,10,16,18,19,22,24,29,36,35,37,40,43,47,46,48,52,53,54	3.53	1.18	5.01	1.94	-4.05	0.25	0.96	-8.14	-2.51	-3.74	1.26	0.11	7.34	21.71	-0.33	-1.54	-2.17	**20.8**
3978	4379	2,4,7,9,10,12,14,30,31,34,36,39,44,55	0.87	-1.93	9.13	4.87	3.42	-1.46	0.25	0.11	-3.46	14.63	-1.39	-1.80	5.11	-0.69	-3.11	-1.54	-2.17	**20.8**
3979	8	1,3,7,11,13,12,14,30,31,34,35,37,42,46,48,52,53,54	2.74	-1.93	5.08	11.82	3.08	0.25	4.55	5.61	-4.07	1.53	1.32	0.11	0.68	-7.27	1.06	-1.54	-2.17	**20.8**
3980	300	1,3,7,11,13,16,20,23,26,31,34,36,39,41,43,47,46,48,52,53,54	2.27	0.66	4.09	6.72	-2.55	-2.32	0.96	6.78	1.09	6.36	-0.22	0.11	0.01	-4.31	1.06	2.28	-2.17	**20.8**
3981	47	1,3,7,11,13,15,23,26,30,32,48,51	1.26	0.14	8.95	-8.70	-8.67	2.82	5.26	3.40	5.19	-2.42	0.32	-1.80	13.11	-4.31	1.06	2.28	2.94	**20.8**
3982	4597	2,4,7,9,10,13,17,21,28,31,30,32,46,47,50,54	2.91	1.18	1.60	-4.18	2.39	3.68	5.26	-4.29	4.79	-1.91	0.94	-1.80	7.74	4.25	-3.11	-1.54	2.94	**20.8**
3983	2643	2,4,3,6,10,13,17,19,22,24,29,36,35,37,42,46,48,51	4.09	0.92	7.55	3.67	-8.19	0.25	2.40	-8.85	-3.00	-3.94	1.56	2.02	10.97	15.45	-0.33	-1.54	-2.17	**20.9**
3984	2139	1,6,9,11,13,16,18,21,28,31,30,32,48,51	1.48	0.40	8.16	-5.98	-6.31	4.54	5.98	-4.45	2.24	-3.54	0.83	-1.80	12.88	2.61	2.45	-1.54	2.94	**20.9**
3985	1016	1,3,7,9,10,16,18,19,22,25,29,36,38,40,42,49,53,54	-0.20	0.40	-2.58	-7.15	4.95	0.25	-0.47	0.71	-2.13	-2.94	-0.36	0.11	3.21	23.35	1.06	-1.54	4.21	**20.9**
3986	962	1,3,7,9,10,15,23,27,28,34,36,39,45,55	1.40	0.14	6.96	-0.80	-2.38	1.11	-1.91	3.71	4.77	14.32	-1.66	-1.80	4.67	-4.97	1.06	-1.54	-2.17	**20.9**
3987	3945	2,4,7,11,13,16,18,19,22,25,29,39,41,43,47,49,53,54	0.26	0.66	4.61	-6.20	-0.84	-3.18	2.40	4.37	-2.46	4.92	-1.55	0.11	7.88	16.77	-3.11	-1.54	-2.17	**20.9**
3988	5244	2,5,19,21,28,34,38,43,50,54	-2.39	-0.38	0.76	-9.25	-2.04	2.82	-3.34	0.03	7.59	6.09	-2.27	3.93	4.13	5.24	-0.33	2.28	8.05	**20.9**
3989	2678	2,4,3,6,10,13,17,19,22,25,29,36,38,40,42,46,48,52,53,54	2.59	0.92	4.23	-0.58	-0.25	-0.60	2.40	-6.58	-2.97	-3.45	0.83	0.11	6.15	15.78	-0.33	-1.54	4.21	**20.9**
3990	4105	2,4,7,11,13,16,20,23,27,28,34,36,39,41,40,42,46,48,51	3.00	-0.12	6.31	8.73	-4.19	-1.46	1.68	5.68	-0.82	8.26	-0.28	2.02	3.28	-4.31	-3.11	-1.54	-2.17	**20.9**
3991	1758	1,6,10,16,18,21,28,34,36,39,45,55	1.18	-0.90	6.26	1.78	-1.05	2.82	-1.19	-4.14	3.20	10.99	-0.96	-1.80	4.07	1.95	2.45	-1.54	-2.17	**21.0**
3992	1225	1,3,7,9,8,14,30,31,34,36,39,41,43,47,49,53,54	3.61	-0.64	12.92	0.18	1.43	-1.46	4.55	1.31	-13.49	12.55	-0.48	2.02	10.04	-8.92	1.06	-1.54	-2.17	**21.0**
3993	2951	2,4,3,6,10,16,18,21,27,26,31,34,36,39,41,43,47,46,48,51	3.62	1.70	7.53	6.36	-5.20	0.25	1.68	-6.85	-2.97	4.10	0.50	2.02	6.49	1.95	-0.33	2.28	-2.17	**21.0**
3994	1695	1,6,10,16,18,21,27,26,31,34,36,39,41,40,42,46,48,51	3.44	0.40	7.43	5.14	-5.92	1.11	1.68	-6.45	-2.97	3.87	0.48	2.02	6.23	1.95	2.45	2.28	-2.17	**21.0**
3995	4960	2,4,7,9,10,16,20,23,27,28,34,38,41,45,55	2.07	-0.64	-0.38	1.89	5.91	1.11	-1.19	3.92	7.10	2.58	0.21	-1.80	-1.64	2.28	-3.11	-1.54	4.21	**21.0**
3996	2887	2,4,3,6,10,16,18,19,22,24,29,36,38,41,44,55	2.01	-0.12	3.77	-5.26	2.94	-1.46	-1.91	-7.38	0.59	-2.94	0.37	-1.80	8.13	21.71	-0.33	-1.54	4.21	**21.0**
3997	2446	1,6,9,11,17,21,27,26,31,34,38,41,45,55	2.46	-0.12	2.01	1.93	3.58	3.68	0.96	1.71	7.14	-2.39	1.21	-1.80	2.60	-10.90	2.45	2.28	4.21	**21.0**
3998	2165	1,6,9,11,13,16,18,21,28,34,36,39,41,43,47,46,48,51	3.20	0.66	7.52	7.59	-4.25	1.11	2.40	-1.49	-3.28	5.10	0.32	2.02	6.03	-4.64	2.45	-1.54	-2.17	**21.0**
3999	1899	1,6,8,14,32,48,51	2.62	-2.71	21.05	-5.91	-7.79	1.97	9.56	-9.24	-9.30	3.22	0.50	0.11	18.11	-4.97	2.45	-1.54	2.94	**21.1**
4000	3995	2,4,7,11,13,16,18,21,28,31,30,32,48,51	1.22	0.40	8.04	-5.69	-5.86	3.68	6.70	-0.04	2.56	-3.59	0.67	-1.80	12.57	3.92	-3.11	-1.54	2.94	**21.1**
4001	4450	2,4,7,9,10,13,17,18,20,23,27,28,31,30,32,46,49,53,54	3.09	1.44	0.54	-3.20	2.08	0.25	3.11	0.56	4.61	0.74	0.68	0.11	5.53	3.26	-3.11	-1.54	2.94	**21.1**
4002	1259	1,6,10,12,14,30,31,34,35,37,42,46,48,51	3.65	-2.45	7.12	11.88	-0.25	1.97	3.83	-4.87	-5.98	1.90	1.58	2.02	3.99	-2.01	2.45	-1.54	-2.17	**21.1**
4003	1468	1,6,10,13,17,21,27,26,31,34,36,39,45,55	1.66	0.14	7.00	1.85	-3.30	2.82	-0.47	-4.14	4.62	9.67	-0.60	-1.80	5.42	-4.31	2.45	2.28	-2.17	**21.1**
4004	1341	1,6,10,13,17,18,20,23,27,28,31,30,32,46,47,50,54	3.14	0.66	0.58	-3.24	1.77	2.82	3.11	-5.93	6.59	1.55	0.60	-1.80	5.48	1.95	2.45	-1.54	2.94	**21.1**
4005	1298	1,6,10,13,17,18,20,23,26,30,32,46,49,53,54	2.91	0.40	0.75	-3.63	0.60	1.11	2.40	-3.85	5.68	-1.43	1.02	0.11	5.46	1.95	2.45	2.28	2.94	**21.1**
4006	3308	2,4,3,6,9,11,13,16,18,19,22,24,29,39,41,40,42,49,53,54	1.33	1.44	5.27	-3.91	-2.67	-3.18	0.96	-0.53	-1.02	4.39	-1.02	0.11	8.90	15.12	-0.33	-1.54	-2.17	**21.2**
4007	2978	2,4,3,6,10,16,18,21,28,31,30,32,46,49,53,54	2.90	0.92	1.42	-4.11	3.53	1.97	3.11	-7.01	2.12	-2.59	1.18	0.11	7.35	9.19	-0.33	-1.54	2.94	**21.2**
4008	2537	2,4,3,6,10,12,14,30,33,37,40,43,47,46,48,51	4.02	-1.15	7.25	12.99	-1.31	2.82	4.55	-5.27	-7.19	2.23	1.57	2.02	4.70	-2.01	-0.33	-1.54	-2.17	**21.2**
4009	208	1,3,7,11,13,16,18,21,27,26,31,34,36,39,41,40,42,46,48,52,53,54	2.53	1.44	5.39	5.08	-2.59	-0.60	2.40	4.02	-1.06	3.50	0.22	0.11	2.92	-3.32	1.06	2.28	-2.17	**21.2**
4010	4879	2,4,7,9,10,16,20,23,26,30,32,48,51	1.25	-0.12	6.69	-6.50	-7.49	1.97	4.55	-2.24	5.04	-2.11	0.38	-1.80	9.96	9.52	-3.11	2.28	2.94	**21.2**
4011	4302	2,4,7,11,17,21,27,26,31,34,38,41,45,55	2.21	-0.12	1.89	2.23	4.03	2.82	1.68	6.12	7.45	-2.44	1.05	-1.80	2.29	-9.58	-3.11	2.28	4.21	**21.2**
4012	4021	2,4,7,11,13,16,18,21,28,34,36,39,41,43,47,46,48,51	2.94	0.66	7.40	7.89	-3.80	0.25	3.11	2.91	-2.96	5.04	0.17	2.02	5.72	-3.32	-3.11	-1.54	-2.17	**21.2**
4013	3645	2,4,3,6,9,11,17,19,22,25,29,36,35,37,42,46,48,51	3.50	0.66	7.78	3.02	-6.31	0.25	3.83	-3.80	-3.64	-3.81	1.29	2.02	11.30	9.19	-0.33	-1.54	-2.17	**21.2**
4014	799	1,3,7,9,10,13,17,21,27,26,30,32,48,51	1.56	0.92	8.07	-7.88	-8.78	4.54	6.70	-4.60	2.89	-4.80	0.88	-1.80	13.01	4.25	1.06	2.28	2.94	**21.2**
4015	469	1,3,7,11,17,19,22,24,29,36,38,40,42,47,50,54	0.27	0.40	-1.52	-3.01	2.40	1.97	0.96	3.49	3.03	-2.88	-0.12	-1.80	4.15	10.18	1.06	-1.54	4.21	**21.3**

Table F-3: Weighted, Sorted Z-scores for All Routes

		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
4016	4741	2,4,7,9,10,16,18,19,22,24,29,36,38,40,42,47,50,54	0.50	0.92	-2.04	-4.38	3.66	1.11	-0.47	-1.87	1.95	-2.56	-0.21	-1.80	3.87	23.02	-3.11	-1.54	4.21	**21.3**
4017	1026	1,3,7,9,10,16,18,19,22,25,29,39,41,40,42,49,53,54	0.40	0.14	4.08	-8.86	-1.73	-2.32	1.68	-0.19	-3.54	4.99	-1.63	0.11	7.51	23.35	1.06	-1.54	-2.17	**21.4**
4018	5165	2,5,19,21,27,26,31,34,35,37,40,43,47,49,53,54	-1.32	2.22	1.97	-8.64	-6.32	3.68	-4.06	0.64	5.39	4.44	-1.62	5.84	6.50	5.24	-0.33	6.10	1.66	**21.4**
4019	2688	2,4,3,6,10,13,17,19,22,25,29,39,41,40,42,46,48,52,53,54	3.19	0.66	10.89	-2.29	-6.92	-3.18	4.55	-7.48	-4.38	4.47	-0.43	0.11	10.46	15.78	-0.33	-1.54	-2.17	**21.4**
4020	228	1,3,7,11,13,16,18,21,27,26,33,37,40,41,45,55	2.58	0.40	2.18	2.13	-0.13	4.54	1.68	5.05	4.95	-2.44	1.16	-1.80	3.25	-3.32	1.06	2.28	-2.17	**21.4**
4021	3241	2,4,3,6,9,11,13,15,23,27,28,31,30,32,46,47,50,54	3.36	1.96	2.91	-4.48	2.56	1.97	3.11	-1.09	6.78	1.30	0.54	-1.80	8.91	-5.63	-0.33	-1.54	2.94	**21.5**
4022	3198	2,4,3,6,9,11,13,15,23,26,30,32,46,49,53,54	3.13	1.70	3.08	-4.87	1.39	0.25	2.40	0.99	5.87	-1.69	0.96	0.11	8.89	-5.63	-0.33	2.28	2.94	**21.5**
4023	2075	1,6,9,11,13,16,18,19,22,25,29,36,38,40,42,47,50,54	0.04	0.66	-1.79	-4.92	5.31	1.97	0.25	-1.22	0.96	-2.38	-0.32	-1.80	4.16	15.45	2.45	-1.54	4.21	**21.5**
4024	992	1,3,7,9,10,16,18,19,22,24,29,36,38,43,50,54	0.15	0.14	-2.25	-5.17	3.18	0.25	-0.47	-1.47	1.95	-2.90	-0.23	-1.80	3.38	23.02	1.06	-1.54	4.21	**21.5**
4025	732	1,3,7,9,10,13,17,18,20,23,27,28,34,38,41,45,55	2.36	0.40	-0.13	1.75	4.44	1.97	-0.47	4.32	7.10	2.55	0.30	-1.80	-1.02	-3.98	1.06	-1.54	4.21	**21.5**
4026	2298	1,6,9,11,17,18,20,23,26,31,34,38,41,45,55	2.45	-0.12	0.88	3.17	3.41	1.97	-0.47	4.47	9.28	0.27	0.79	-1.80	0.17	-11.89	2.45	2.28	4.21	**21.5**
4027	2684	2,4,3,6,10,13,17,19,22,25,29,36,38,43,47,46,48,52,53,54	2.59	0.66	4.24	-0.18	-0.03	-0.60	2.40	-6.58	-2.97	-3.26	0.84	0.11	6.19	15.78	-0.33	-1.54	4.21	**21.5**
4028	490	1,3,7,11,17,19,22,25,29,36,35,37,40,43,47,46,48,52,53,54	2.56	0.40	5.10	0.62	-3.70	1.11	3.83	2.11	-2.84	-3.73	0.88	0.11	7.24	10.51	1.06	-1.54	-2.17	**21.6**
4029	4762	2,4,7,9,10,16,18,19,22,25,29,36,35,37,40,43,47,46,48,52,53,54	2.79	0.92	4.58	-0.76	-2.44	0.25	2.40	-3.25	-3.92	-3.41	0.79	0.11	6.96	23.35	-3.11	-1.54	-2.17	**21.6**
4030	3303	2,4,3,6,9,11,13,16,18,19,22,24,29,36,38,43,47,49,53,54	0.73	1.70	-1.38	-1.79	4.23	-0.60	-1.19	0.37	0.39	-3.34	0.25	0.11	4.63	15.12	-0.33	-1.54	4.21	**21.6**
4031	2461	1,6,9,11,17,21,28,31,30,32,46,47,50,54	2.89	0.14	2.17	-2.96	2.15	4.54	5.26	-3.74	5.55	-2.15	1.12	-1.80	8.22	-3.65	2.45	-1.54	2.94	**21.6**
4032	4529	2,4,7,9,10,13,17,19,22,25,29,36,35,37,42,46,48,51	3.35	0.66	7.12	0.98	-6.58	0.25	3.83	-3.96	-4.41	-3.61	1.09	2.02	10.59	17.10	-3.11	-1.54	-2.17	**21.6**
4033	1320	1,6,10,13,17,18,20,23,26,31,34,36,39,45,55	1.65	0.14	5.87	3.09	-3.47	1.11	-1.91	-1.38	6.76	12.33	-1.02	-1.80	2.99	-5.30	2.45	2.28	-2.17	**21.6**
4034	59	1,3,7,11,13,15,23,26,31,34,36,39,41,40,42,46,48,51	3.26	0.66	8.50	4.47	-6.83	-0.60	1.68	6.36	-0.33	6.16	-0.10	2.02	6.81	-11.56	1.06	2.28	-2.17	**21.7**
4035	3931	2,4,7,11,13,16,18,19,22,25,29,36,38,40,42,47,50,54	-0.22	0.66	-1.91	-4.63	5.76	1.11	0.96	3.18	1.28	-2.44	-0.47	-1.80	3.85	16.77	-3.11	-1.54	4.21	**21.7**
4036	3189	2,4,3,6,9,11,13,12,14,30,33,37,42,46,48,51	3.88	-1.41	7.80	14.51	-1.10	1.11	5.26	-0.31	-6.08	1.74	1.71	2.02	5.21	-8.59	-0.33	-1.54	-2.17	**21.7**
4037	3050	2,4,3,6,10,16,20,23,26,31,34,38,41,45,55	2.34	-0.12	0.11	2.28	4.94	1.11	-1.91	-0.88	8.18	0.59	0.65	-1.80	-0.90	0.96	-0.33	2.28	4.21	**21.7**
4038	4154	2,4,7,11,17,18,20,23,26,31,34,38,41,45,55	2.19	-0.12	0.76	3.47	3.86	1.11	0.25	8.88	9.60	0.22	0.63	-1.80	-0.14	-10.57	-3.11	2.28	4.21	**21.7**
4039	501	1,3,7,11,17,19,22,25,29,36,38,41,44,55	1.03	-0.90	3.86	-6.58	3.29	-0.60	0.96	2.87	0.26	-2.92	-0.01	-1.80	8.03	10.51	1.06	-1.54	4.21	**21.7**
4040	479	1,3,7,11,17,19,22,24,29,39,41,40,42,47,50,54	0.87	0.14	5.14	-4.72	-4.27	-0.60	3.11	2.59	1.62	5.04	-1.39	-1.80	8.46	10.18	1.06	-1.54	-2.17	**21.7**
4041	4773	2,4,7,9,10,16,18,19,22,25,29,36,38,41,44,55	1.26	-0.38	3.34	-7.96	4.55	-1.46	-0.47	-2.48	-0.82	-2.60	-0.10	-1.80	7.75	23.35	-3.11	-1.54	4.21	**21.7**
4042	4751	2,4,7,9,10,16,18,19,22,24,29,39,41,40,42,47,50,54	1.11	0.66	4.62	-6.10	-3.01	-1.46	1.68	-2.76	0.54	5.36	-1.48	-1.80	8.18	23.02	-3.11	-1.54	-2.17	**21.7**
4043	2227	1,6,9,11,13,16,20,23,27,28,31,30,32,48,51	1.54	-0.12	7.08	-4.75	-6.48	2.82	4.55	-1.69	4.39	-0.13	0.38	-1.80	10.47	1.62	2.45	-1.54	2.94	**21.7**
4044	651	1,3,7,9,10,13,17,18,20,23,26,30,32,48,51	1.55	0.92	6.94	-6.64	-8.96	2.82	5.26	-1.84	5.04	-2.13	0.46	-1.80	10.58	3.26	1.06	2.28	2.94	**21.8**
4045	1021	1,3,7,9,10,16,18,19,22,25,29,36,38,43,47,49,53,54	-0.20	0.40	-2.56	-6.75	5.17	0.25	-0.47	0.71	-2.13	-2.74	-0.35	0.11	3.24	23.35	1.06	-1.54	4.21	**21.8**
4046	4317	2,4,7,11,17,21,28,31,30,32,46,47,50,54	2.63	0.14	2.05	-2.67	2.60	3.68	5.98	0.67	5.87	-2.20	0.97	-1.80	7.91	-2.33	-3.11	-1.54	2.94	**21.8**
4047	1846	1,6,10,16,20,23,27,28,34,36,39,45,55	1.25	-1.41	5.18	3.02	-1.22	1.11	-2.62	-1.38	5.35	14.40	-1.40	-1.80	1.66	0.96	2.45	-1.54	-2.17	**21.8**
4048	2314	1,6,9,11,17,18,20,23,27,28,31,30,32,46,49,53,54	3.06	0.40	1.12	-1.98	1.84	1.11	3.11	1.11	5.37	0.50	0.86	0.11	6.01	-4.64	2.45	-1.54	2.94	**21.8**
4049	2046	1,6,9,11,13,16,18,19,22,24,29,36,38,40,42,49,53,54	0.55	0.66	-1.48	-3.02	3.50	0.25	-1.19	0.77	0.39	-3.57	0.23	0.11	4.37	15.12	2.45	-1.54	4.21	**21.8**
4050	3292	2,4,3,6,9,11,13,16,18,19,22,24,29,36,35,37,42,46,48,52,53,54	3.39	1.44	5.56	3.46	-3.84	-1.46	1.68	-3.18	-1.40	-4.23	1.39	0.11	7.86	15.12	-0.33	-1.54	-2.17	**21.9**
4051	2253	1,6,9,11,13,16,20,23,27,28,34,36,39,41,43,47,46,48,51	3.26	0.14	6.45	8.83	-4.42	-0.60	0.96	1.27	-1.13	8.51	-0.12	2.02	3.62	-5.63	2.45	-1.54	-2.17	**21.9**
4052	1101	1,3,7,9,10,16,18,21,28,34,36,39,41,40,42,46,48,51	3.08	0.40	6.88	5.23	-4.68	1.11	2.40	-1.64	-4.04	5.11	0.09	2.02	5.36	3.26	1.06	-1.54	-2.17	**21.9**
4053	182	1,3,7,11,13,16,18,19,22,25,29,36,38,43,50,54	-0.57	-0.12	-2.12	-5.42	5.27	0.25	0.96	3.58	1.28	-2.77	-0.49	-1.80	3.36	16.77	1.06	-1.54	4.21	**21.9**
4054	5156	2,5,19,18,21,28,34,38,43,50,54	-2.27	0.14	0.85	-9.25	-2.04	2.82	-3.34	0.03	7.59	6.09	-2.26	3.93	4.38	5.24	-0.33	2.28	8.05	**21.9**
4055	4083	2,4,7,11,13,16,20,23,27,28,31,30,32,48,51	1.29	-0.12	6.96	-4.45	-6.03	1.97	5.26	2.72	4.70	-0.18	0.23	-1.80	10.16	2.94	-3.11	-1.54	2.94	**21.9**
4056	2085	1,6,9,11,13,16,18,19,22,25,29,39,41,40,42,47,50,54	0.64	0.40	4.87	-6.64	-1.37	-0.60	2.40	-2.12	-0.45	5.55	-1.58	-1.80	8.47	15.45	2.45	-1.54	-2.17	**21.9**
4057	3220	2,4,3,6,9,11,13,15,23,26,31,34,36,39,45,55	1.87	1.44	8.21	1.85	-2.69	0.25	-1.91	3.46	6.95	12.07	-1.08	-1.80	6.42	-12.87	-0.33	2.28	-2.17	**21.9**
4058	914	1,3,7,9,10,15,23,26,31,34,38,41,45,55	2.32	0.40	1.80	-2.37	3.27	1.97	-1.19	4.61	7.60	0.48	0.39	-1.80	1.89	-4.97	1.06	2.28	4.21	**22.0**
4059	1624	1,6,10,16,18,19,22,24,29,36,35,37,40,43,47,46,48,52,53,54	3.36	0.14	4.93	1.11	-4.55	1.11	0.96	-7.74	-2.51	-3.77	1.24	0.11	7.12	21.71	2.45	-1.54	-2.17	**22.0**
4060	1391	1,6,10,13,17,19,22,24,29,36,35,37,42,46,48,51	3.92	-0.12	7.46	2.85	-8.69	1.11	2.40	-8.45	-3.00	-3.97	1.55	2.02	10.75	15.45	2.45	-1.54	-2.17	**22.0**
4061	3066	2,4,3,6,10,16,20,23,27,28,31,30,32,46,49,53,54	2.96	0.40	0.35	-2.88	3.36	0.25	1.68	-4.25	4.27	0.82	0.73	0.11	4.94	8.20	-0.33	-1.54	2.94	**22.0**
4062	23	1,3,7,11,13,12,14,30,31,34,38,40,42,47,50,54	0.20	-1.67	-1.71	6.43	11.07	2.82	2.40	7.08	0.05	2.99	-0.01	-1.80	-2.27	-7.27	1.06	-1.54	4.21	**22.0**
4063	4170	2,4,7,11,17,18,20,23,27,28,31,30,32,46,49,53,54	2.81	0.40	1.00	-1.69	2.29	0.25	3.83	5.51	5.69	0.45	0.71	0.11	5.70	-3.32	-3.11	-1.54	2.94	**22.0**
4064	5191	2,5,19,21,27,26,33,37,40,41,44,55	0.01	-0.12	7.71	-10.30	-8.97	2.82	-3.34	-2.15	5.49	4.66	-1.39	3.93	11.00	5.24	-0.33	6.10	1.66	**22.0**
4065	3902	2,4,7,11,13,16,18,19,22,24,29,36,38,40,42,49,53,54	0.30	0.66	-1.60	-2.72	3.95	-0.60	-0.47	5.17	0.71	-3.62	0.08	0.11	4.06	16.44	-3.11	-1.54	4.21	**22.0**
4066	34	1,3,7,11,13,12,14,30,33,37,40,43,47,46,48,52,53,54	2.94	-1.67	5.12	12.11	1.51	1.97	5.26	5.61	-5.28	1.83	1.30	0.11	1.16	-7.27	1.06	-1.54	-2.17	**22.0**
4067	4891	2,4,7,9,10,16,20,23,26,31,34,36,39,41,40,42,46,48,51	3.25	0.40	6.24	6.67	-5.65	-1.46	0.96	0.72	-0.48	6.48	-0.05	2.02	3.66	2.28	-3.11	2.28	-2.17	**22.0**
4068	1038	1,3,7,9,10,16,18,21,27,26,31,34,35,37,40,41,45,55	2.85	1.44	1.84	0.33	1.23	4.54	0.25	0.09	5.08	-2.25	1.11	-1.80	2.92	3.26	1.06	2.28	-2.17	**22.0**
4069	1010	1,3,7,9,10,16,18,19,22,25,29,36,35,37,42,46,48,52,53,54	2.46	0.14	4.37	-1.49	-2.90	-0.60	2.40	-2.85	-3.92	-3.64	0.79	0.11	6.48	23.35	1.06	-1.54	-2.17	**22.1**
4070	874	1,3,7,9,10,13,17,21,28,34,36,39,45,55	1.31	0.14	6.45	1.94	-2.06	2.82	0.25	0.66	3.55	10.90	-0.99	-1.80	4.54	-2.99	1.06	-1.54	-2.17	**22.1**

		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
4071	1426	1,6,10,13,17,19,22,25,29,36,38,40,42,46,48,52,53,54	2.41	-0.12	4.14	-1.40	-0.75	0.25	2.40	-6.18	-2.97	-3.48	0.82	0.11	5.93	15.78	2.45	-1.54	4.21	**22.1**
4072	811	1,3,7,9,10,13,17,21,27,26,31,34,36,39,41,40,42,46,48,51	3.56	1.44	7.62	5.30	-6.94	1.11	3.11	-1.64	-2.63	3.79	0.45	2.02	6.71	-2.99	1.06	2.28	-2.17	**22.1**
4073	4109	2,4,7,11,13,16,20,23,27,28,34,36,39,41,43,47,46,48,51	3.01	0.14	6.33	9.12	-3.97	-1.46	1.68	5.68	-0.82	8.46	-0.27	2.02	3.31	-4.31	-3.11	-1.54	-2.17	**22.1**
4074	1699	1,6,10,16,18,21,27,26,31,34,36,39,41,43,47,46,48,51	3.45	0.66	7.44	5.54	-5.70	1.11	1.68	-6.45	-2.97	4.07	0.49	2.02	6.27	1.95	2.45	2.28	-2.17	**22.1**
4075	1635	1,6,10,16,18,19,22,24,29,36,38,41,44,55	1.83	-1.15	3.68	-6.09	2.43	-0.60	-1.91	-6.98	0.59	-2.97	0.35	-1.80	7.90	21.71	2.45	-1.54	4.21	**22.1**
4076	2697	2,4,3,6,10,13,17,21,27,26,30,32,46,47,50,54	3.23	1.70	2.12	-3.79	1.42	3.68	4.55	-9.09	5.86	-3.29	1.29	-1.80	8.44	2.94	-0.33	2.28	2.94	**22.1**
4077	3941	2,4,7,11,13,16,18,19,22,25,29,39,41,40,42,47,50,54	0.39	0.40	4.75	-6.34	-0.92	-1.46	3.11	2.28	-0.14	5.49	-1.74	-1.80	8.16	16.77	-3.11	-1.54	-2.17	**22.1**
4078	3428	2,4,3,6,9,11,13,16,18,21,28,34,38,41,45,55	2.36	0.92	1.50	3.09	6.56	2.82	0.25	1.31	5.72	-1.04	0.93	-1.80	1.80	-4.64	-0.33	-1.54	4.21	**22.1**
4079	1221	1,3,7,9,8,14,30,31,34,36,39,41,40,42,47,50,54	3.74	-0.90	13.06	0.05	1.35	0.25	5.26	-0.77	-11.16	13.12	-0.67	0.11	10.32	-8.92	1.06	-1.54	-2.17	**22.2**
4080	519	1,3,7,11,17,21,27,26,30,32,48,51	1.28	-0.12	8.52	-6.36	-8.58	4.54	7.41	0.36	3.97	-5.09	0.92	-1.80	13.19	-2.33	1.06	2.28	2.94	**22.2**
4081	930	1,3,7,9,10,15,23,27,28,31,30,32,46,49,53,54	2.94	0.92	2.04	-7.52	1.69	1.11	2.40	1.24	3.69	0.71	0.47	0.11	7.73	2.28	1.06	-1.54	2.94	**22.3**
4082	2056	1,6,9,11,13,16,18,19,22,24,29,39,41,40,42,49,53,54	1.16	0.40	5.18	-4.73	-3.17	-2.32	0.96	-0.13	-1.02	4.36	-1.04	0.11	8.67	15.12	2.45	-1.54	-2.17	**22.3**
4083	1726	1,6,10,16,18,21,28,31,30,32,46,49,53,54	2.73	-0.12	1.34	-4.94	3.03	2.82	3.11	-6.61	2.12	-2.62	1.16	0.11	7.12	9.19	2.45	-1.54	2.94	**22.3**
4084	1285	1,6,10,12,14,30,33,37,40,43,47,46,48,51	3.85	-2.19	7.17	12.17	-1.82	3.68	4.55	-4.87	-7.19	2.20	1.56	2.02	4.47	-2.01	2.45	-1.54	-2.17	**22.3**
4085	4641	2,4,7,9,10,15,23,26,30,32,46,47,50,54	2.90	1.18	2.43	-7.06	1.05	1.97	3.11	-1.24	7.43	-0.71	0.53	-1.80	8.17	2.28	-3.11	2.28	2.94	**22.3**
4086	212	1,3,7,11,13,16,18,21,27,26,31,34,36,39,41,43,47,46,48,52,53,54	2.53	1.70	5.40	5.48	-2.37	-0.60	2.40	4.02	-1.06	3.70	0.22	0.11	2.96	-3.32	1.06	2.28	-2.17	**22.3**
4087	3171	2,4,3,6,9,11,13,12,14,30,31,34,36,39,44,55	1.22	-1.41	9.94	7.32	3.91	-1.46	0.25	0.26	-2.70	14.42	-1.12	-1.80	6.15	-8.59	-0.33	-1.54	-2.17	**22.3**
4088	2393	1,6,9,11,17,19,22,25,29,36,35,37,42,46,48,51	3.33	-0.38	7.69	2.20	-6.82	1.11	3.83	-3.40	-3.64	-3.84	1.28	2.02	11.07	9.19	2.45	-1.54	-2.17	**22.4**
4089	5077	2,5,19,18,21,27,26,31,34,35,37,40,43,47,49,53,54	-1.19	2.74	2.06	-8.64	-6.32	3.68	-4.06	0.64	5.39	4.44	-1.61	5.84	6.75	5.24	-0.33	6.10	1.66	**22.4**
4090	452	1,3,7,11,17,18,20,23,27,28,34,38,41,45,55	2.08	-0.64	0.32	3.26	4.65	1.97	0.25	9.28	8.18	2.26	0.33	-1.80	-0.85	-10.57	1.06	-1.54	4.21	**22.5**
4091	3912	2,4,7,11,13,16,18,19,22,24,29,39,41,40,42,49,53,54	0.90	0.40	5.06	-4.44	-2.72	-3.18	1.68	4.28	-0.71	4.31	-1.19	0.11	8.36	16.44	-3.11	-1.54	-2.17	**22.5**
4092	1000	1,3,7,9,10,16,18,19,22,24,29,39,41,43,50,54	0.75	0.40	4.41	-6.89	-3.50	-2.32	1.68	-2.37	0.54	5.03	-1.50	-1.80	7.68	23.02	1.06	-1.54	-2.17	**22.5**
4093	2692	2,4,3,6,10,13,17,19,22,25,29,39,41,43,47,46,48,52,53,54	3.20	0.92	10.90	-1.90	-6.70	-3.18	4.55	-7.48	-4.38	4.67	-0.43	0.11	10.50	15.78	-0.33	-1.54	-2.17	**22.5**
4094	1436	1,6,10,13,17,19,22,25,29,39,41,40,42,46,48,52,53,54	3.02	-0.38	10.80	-3.12	-7.43	-2.32	4.55	-7.08	-4.38	4.45	-0.45	0.11	10.24	15.78	2.45	-1.54	-2.17	**22.5**
4095	3311	2,4,3,6,9,11,13,16,18,19,22,24,29,39,41,43,47,49,53,54	1.34	1.96	5.28	-3.51	-2.45	-3.18	0.96	-0.53	-1.02	4.59	-1.02	0.11	8.93	15.12	-0.33	-1.54	-2.17	**22.5**
4096	4249	2,4,7,11,17,19,22,25,29,36,35,37,42,46,48,51	3.07	-0.38	7.57	2.50	-6.37	0.25	4.55	1.00	-3.33	-3.90	1.13	2.02	10.77	10.51	-3.11	-1.54	-2.17	**22.6**
4097	663	1,3,7,9,10,13,17,18,20,23,26,31,34,36,39,41,40,42,46,48,51	3.55	1.44	6.49	6.53	-7.11	-0.60	1.68	1.12	-0.48	6.45	0.03	2.02	4.28	-3.98	1.06	2.28	-2.17	**22.6**
4098	629	1,3,7,9,10,12,14,30,31,34,38,41,44,55	1.68	-2.19	3.53	3.10	9.86	0.25	0.96	1.41	-2.05	2.83	0.35	-1.80	1.62	-0.69	1.06	-1.54	4.21	**22.6**
4099	1989	1,6,9,11,13,15,23,27,28,31,30,32,46,47,50,54	3.19	0.92	2.83	-5.30	2.06	2.82	3.11	-0.69	6.78	1.27	0.53	-1.80	8.68	-5.63	2.45	-1.54	2.94	**22.6**
4100	1946	1,6,9,11,13,15,23,26,30,32,46,49,53,54	2.95	0.66	2.99	-5.69	0.89	1.11	2.40	1.39	5.87	-1.72	0.95	0.11	8.67	-5.63	2.45	2.28	2.94	**22.6**
4101	2669	2,4,3,6,10,13,17,19,22,25,29,36,35,37,40,43,47,46,48,51	3.85	1.44	7.38	1.91	-6.30	1.97	3.11	-8.76	-4.75	-3.33	1.23	2.02	11.11	15.78	-0.33	-1.54	-2.17	**22.6**
4102	2549	2,4,3,6,10,13,17,18,20,23,26,30,32,46,47,50,54	3.21	1.70	0.99	-2.55	1.25	1.97	3.11	-6.33	8.01	-0.63	0.87	-1.80	6.01	1.95	-0.33	2.28	2.94	**22.6**
4103	1432	1,6,10,13,17,19,22,25,29,36,38,43,47,46,48,52,53,54	2.42	-0.38	4.15	-1.00	-0.53	0.25	2.40	-6.18	-2.97	-3.29	0.83	0.11	5.97	15.78	2.45	-1.54	4.21	**22.7**
4104	608	1,3,7,9,10,12,14,30,31,34,35,37,40,43,47,46,48,52,53,54	3.21	-0.64	4.78	10.30	2.87	1.97	3.83	0.65	-5.15	2.02	1.24	0.11	0.84	-0.69	1.06	-1.54	-2.17	**22.7**
4105	371	1,3,7,11,17,18,20,23,26,30,32,48,51	1.27	-0.12	7.39	-5.13	-8.75	2.82	5.98	3.12	6.12	-2.42	0.50	-1.80	10.76	-3.32	1.06	2.28	2.94	**22.7**
4106	2051	1,6,9,11,13,16,18,19,22,24,29,36,38,43,47,49,53,54	0.56	0.66	-1.47	-2.62	3.72	0.25	-1.19	0.77	0.39	-3.37	0.24	0.11	4.40	15.12	2.45	-1.54	4.21	**22.7**
4107	4791	2,4,7,9,10,16,18,21,27,26,30,32,48,51	1.52	0.92	8.00	-7.74	-7.32	3.68	5.98	-5.00	2.89	-4.77	0.82	-1.80	12.90	10.51	-3.11	2.28	2.94	**22.7**
4108	2526	2,4,3,6,10,12,14,30,31,34,38,40,42,46,48,52,53,54	2.96	-1.41	4.35	10.62	6.53	0.25	3.11	-3.09	-4.20	2.00	1.23	0.11	-0.08	-2.01	-0.33	-1.54	4.21	**22.7**
4109	1029	1,3,7,9,10,16,18,19,22,25,29,39,41,43,47,49,53,54	0.40	0.66	4.10	-8.46	-1.51	-2.32	1.68	-0.19	-3.54	5.18	-1.62	0.11	7.55	23.35	1.06	-1.54	-2.17	**22.7**
4110	1189	1,3,7,9,10,16,20,23,27,28,34,36,39,41,40,42,46,48,51	3.14	-0.12	5.80	6.47	-4.86	-0.60	0.96	1.12	-1.90	8.52	-0.35	2.02	2.95	2.28	1.06	-1.54	-2.17	**22.8**
4111	63	1,3,7,11,13,15,23,26,31,34,36,39,41,43,47,46,48,51	3.26	0.92	8.51	4.87	-6.61	-0.60	1.68	6.36	-0.33	6.36	-0.10	2.02	6.84	-11.56	1.06	2.28	-2.17	**22.8**
4112	3845	2,4,7,11,13,15,23,27,28,31,30,32,46,47,50,54	2.93	0.92	2.71	-5.00	2.50	1.97	3.83	3.71	7.09	1.21	0.38	-1.80	8.37	-4.31	-3.11	-1.54	2.94	**22.8**
4113	3802	2,4,7,11,13,15,23,26,30,32,46,49,53,54	2.69	0.66	2.88	-5.40	1.33	0.25	3.11	5.80	6.18	-1.77	0.80	0.11	8.36	-4.31	-3.11	2.28	2.94	**22.8**
4114	3670	2,4,3,6,9,11,17,21,27,26,30,32,46,49,53,54	3.15	1.44	2.66	-2.53	1.48	1.97	4.55	-2.05	4.64	-4.35	1.55	0.11	8.97	-3.65	-0.33	2.28	2.94	**22.8**
4115	1937	1,6,9,11,13,12,14,30,33,37,42,46,48,51	3.71	-2.45	7.71	13.69	-1.60	1.97	5.26	0.09	-6.08	1.72	1.69	2.02	4.99	-8.59	2.45	-1.54	-2.17	**22.8**
4116	1798	1,6,10,16,20,23,26,31,34,38,41,45,55	2.17	-1.15	0.03	1.45	4.43	1.97	-1.91	-0.48	8.18	0.56	0.64	-1.80	-1.13	0.96	2.45	2.28	4.21	**22.9**
4117	190	1,3,7,11,13,16,18,19,22,25,29,39,41,43,50,54	0.03	0.14	4.54	-7.14	-1.40	-2.32	3.11	2.68	-0.14	5.16	-1.75	-1.80	7.66	16.77	1.06	-1.54	-2.17	**22.9**
4118	3907	2,4,7,11,13,16,18,19,22,24,29,36,38,43,47,49,53,54	0.30	0.66	-1.59	-2.32	4.17	-0.60	-0.47	5.17	0.71	-3.42	0.09	0.11	4.09	16.44	-3.11	-1.54	4.21	**22.9**
4119	1079	1,3,7,9,10,16,18,21,28,31,30,32,48,51	1.37	0.40	7.53	-7.95	-6.53	4.54	5.98	-4.60	1.48	-3.33	0.60	-1.80	12.24	10.51	1.06	-1.54	2.94	**22.9**
4120	133	1,3,7,11,13,16,18,19,22,24,29,36,35,37,40,41,44,55	2.17	0.14	4.78	-4.06	-0.51	0.25	-0.47	1.31	0.72	-3.41	0.49	-1.80	9.51	16.44	1.06	-1.54	-2.17	**22.9**
4121	2040	1,6,9,11,13,16,18,19,22,24,29,36,35,37,42,46,48,52,53,54	3.22	0.40	5.47	2.63	-4.34	-0.60	1.68	-2.78	-1.40	-4.26	1.38	0.11	7.64	15.12	2.45	-1.54	-2.17	**23.0**
4122	5212	2,5,19,21,28,31,33,37,42,46,48,52,53,54	0.65	0.14	7.80	-3.52	-11.56	1.97	-0.47	-1.44	2.27	5.19	-0.87	5.84	8.15	5.24	-0.33	2.28	1.66	**23.0**
4123	594	1,3,7,11,17,21,28,34,36,39,45,55	1.03	-0.90	6.90	3.45	-1.86	2.82	0.96	5.62	4.62	10.61	-0.95	-1.80	4.72	-9.58	1.06	-1.54	-2.17	**23.0**
4124	3516	2,4,3,6,9,11,13,16,20,23,27,28,34,38,41,45,55	2.43	0.40	0.42	4.33	6.39	1.11	-1.19	4.07	7.87	2.37	0.49	-1.80	-0.61	-5.63	-0.33	-1.54	4.21	**23.0**
4125	531	1,3,7,11,17,21,27,26,31,34,36,39,41,40,42,46,48,51	3.28	0.40	8.07	6.81	-6.73	1.11	3.83	3.31	-1.55	3.50	0.49	2.02	6.88	-9.58	1.06	2.28	-2.17	**23.0**

Table F-3: Weighted, Sorted Z-scores for All Routes

		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
4126	5103	2,5,19,18,21,27,26,33,37,40,41,44,55	0.14	0.40	7.80	-10.30	-8.97	2.82	-3.34	-2.15	5.49	4.66	-1.37	3.93	11.26	5.24	-0.33	6.10	1.66	**23.0**
4127	3793	2,4,7,11,13,12,14,30,33,37,42,46,48,51	3.45	-2.45	7.59	13.99	-1.16	1.11	5.98	4.50	-5.77	1.66	1.54	2.02	4.68	-7.27	-3.11	-1.54	-2.17	**23.0**
4128	1105	1,3,7,9,10,16,18,21,28,34,36,39,41,43,47,46,48,51	3.09	0.66	6.89	5.63	-4.47	1.11	2.40	-1.64	-4.04	5.31	0.10	2.02	5.39	3.26	1.06	-1.54	-2.17	**23.0**
4129	1968	1,6,9,11,13,15,23,26,31,34,36,39,45,55	1.69	0.40	8.12	1.02	-3.19	1.11	-1.91	3.86	6.95	12.04	-1.09	-1.80	6.19	-12.87	2.45	2.28	-2.17	**23.1**
4130	5007	2,4,7,9,8,14,32,48,51	2.70	-2.19	21.17	-5.62	-7.34	1.11	10.28	-4.84	-8.96	3.17	0.41	0.11	18.48	-3.65	-3.11	-1.54	2.94	**23.1**
4131	1814	1,6,10,16,20,23,27,28,31,30,32,46,49,53,54	2.79	-0.64	0.26	-3.70	2.86	1.11	1.68	-3.85	4.27	0.79	0.72	0.11	4.71	8.20	2.45	-1.54	2.94	**23.2**
4132	4895	2,4,7,9,10,16,20,23,26,31,34,36,39,41,43,47,46,48,51	3.26	0.66	6.25	7.07	-5.43	-1.46	0.96	0.72	-0.48	6.68	-0.05	2.02	3.69	2.28	-3.11	2.28	-2.17	**23.2**
4133	3896	2,4,7,11,13,16,18,19,22,24,29,36,35,37,42,46,48,52,53,54	2.96	0.40	5.35	2.93	-3.89	-1.46	2.40	1.62	-1.08	-4.31	1.23	0.11	7.33	16.44	-3.11	-1.54	-2.17	**23.2**
4134	815	1,3,7,9,10,13,17,21,27,26,31,34,36,39,41,43,47,46,48,51	3.57	1.70	7.64	5.69	-6.72	1.11	3.11	-1.64	-2.63	3.99	0.46	2.02	6.75	-2.99	1.06	2.28	-2.17	**23.2**
4135	4554	2,4,7,9,10,13,17,21,27,26,30,32,46,49,53,54	3.00	1.44	2.00	-4.57	1.22	1.97	4.55	-2.21	3.88	-4.14	1.35	0.11	8.26	4.25	-3.11	2.28	2.94	**23.2**
4136	2962	2,4,3,6,10,16,18,21,27,26,31,34,38,41,45,55	2.61	0.92	1.42	1.04	5.11	2.82	-0.47	-3.64	6.03	-2.07	1.10	-1.80	2.04	1.95	-0.33	2.28	4.21	**23.2**
4137	3435	2,4,3,6,9,11,13,16,20,23,26,30,32,48,51	1.61	0.92	7.50	-4.06	-7.00	1.97	4.55	-2.08	5.80	-2.31	0.65	-1.80	11.00	1.62	-0.33	2.28	2.94	**23.2**
4138	5238	2,5,19,21,28,34,38,40,42,49,53,54	-2.10	0.14	0.91	-9.06	-1.93	2.82	-4.06	2.11	5.27	5.63	-2.04	5.84	4.48	5.24	-0.33	2.28	8.05	**23.3**
4139	1445	1,6,10,13,17,21,27,26,30,32,46,47,50,54	3.05	0.66	2.04	-4.61	0.91	4.54	4.55	-8.69	5.86	-3.32	1.28	-1.80	8.21	2.94	2.45	2.28	2.94	**23.3**
4140	3824	2,4,7,11,13,15,23,26,31,34,36,39,45,55	1.43	0.40	8.00	1.32	-2.74	0.25	-1.19	8.27	7.26	11.99	-1.25	-1.80	5.88	-11.56	-3.11	2.28	-2.17	**23.3**
4141	2176	1,6,9,11,13,16,18,21,28,34,38,41,45,55	2.19	-0.12	1.41	2.27	6.06	3.68	0.25	1.71	5.72	-1.07	0.92	-1.80	1.58	-4.64	2.45	-1.54	4.21	**23.3**
4142	3692	2,4,3,6,9,11,17,21,27,26,31,34,36,39,45,55	1.89	1.18	7.78	4.19	-2.59	1.97	0.25	0.42	5.72	9.41	-0.49	-1.80	6.49	-10.90	-0.33	2.28	-2.17	**23.3**
4143	3297	2,4,3,6,9,11,13,16,18,19,22,24,29,36,38,40,42,47,50,54	0.86	1.96	-1.24	-1.93	4.15	1.11	-0.47	-1.71	2.72	-2.77	0.06	-1.80	4.91	15.12	-0.33	-1.54	4.21	**23.3**
4144	3565	2,4,3,6,9,11,17,18,20,23,27,28,31,30,32,46,47,50,54	3.37	1.70	1.36	-0.90	2.48	1.97	3.83	-1.37	7.70	1.29	0.72	-1.80	6.55	-4.64	-0.33	-1.54	2.94	**23.3**
4145	3522	2,4,3,6,9,11,17,18,20,23,26,30,32,46,49,53,54	3.13	1.44	1.53	-1.29	1.31	0.25	3.11	0.71	6.79	-1.69	1.13	0.11	6.54	-4.64	-0.33	2.28	2.94	**23.3**
4146	2532	2,4,3,6,10,12,14,30,31,34,38,43,47,46,48,52,53,54	2.97	-1.67	4.37	11.02	6.75	0.25	3.11	-3.09	-4.20	2.20	1.24	0.11	-0.04	-2.01	-0.33	-1.54	4.21	**23.3**
4147	842	1,3,7,9,10,13,17,21,28,31,30,32,46,49,53,54	2.85	0.92	1.53	-4.78	2.01	2.82	4.55	-1.81	2.47	-2.71	1.13	0.11	7.60	4.25	1.06	-1.54	2.94	**23.4**
4148	1919	1,6,9,11,13,12,14,30,31,34,36,39,44,55	1.05	-2.45	9.85	6.49	3.40	-0.60	0.25	0.66	-2.70	14.39	-1.13	-1.80	5.93	-8.59	2.45	-1.54	-2.17	**23.5**
4149	4032	2,4,7,11,13,16,18,21,28,34,38,41,45,55	1.93	-0.12	1.29	2.57	6.51	2.82	0.96	6.12	6.04	-1.13	0.77	-1.80	1.27	-3.32	-3.11	-1.54	4.21	**23.5**
4150	1015	1,3,7,9,10,16,18,19,22,25,29,36,38,40,42,47,50,54	-0.07	0.66	-2.42	-6.89	5.09	1.97	0.25	-1.38	0.20	-2.17	-0.54	-1.80	3.53	23.35	1.06	-1.54	4.21	**23.5**
4151	383	1,3,7,11,17,18,20,23,26,31,34,36,39,41,40,42,46,48,51	3.27	0.40	6.94	8.05	-6.90	-0.60	2.40	6.08	0.60	6.16	0.07	2.02	4.45	-10.57	1.06	2.28	-2.17	**23.5**
4152	4866	2,4,7,9,10,16,18,21,28,34,36,39,45,55	1.26	0.14	6.38	2.08	-0.60	1.97	-0.47	0.26	3.55	10.93	-1.05	-1.80	4.43	3.26	-3.11	-1.54	-2.17	**23.5**
4153	4803	2,4,7,9,10,16,18,21,27,26,31,34,36,39,41,40,42,46,48,51	3.51	1.44	7.55	5.44	-5.47	0.25	2.40	-2.04	-2.63	3.82	0.39	2.02	6.60	3.26	-3.11	2.28	-2.17	**23.5**
4154	740	1,3,7,9,10,13,17,19,22,24,29,36,35,37,40,43,47,46,48,52,53,54	3.48	1.70	5.12	1.27	-5.57	1.11	2.40	-2.94	-2.16	-3.86	1.21	0.11	7.60	16.77	1.06	-1.54	-2.17	**23.6**
4155	3318	2,4,3,6,9,11,13,16,18,19,22,25,29,36,35,37,40,43,47,46,48,52,53,54	3.15	1.96	5.39	1.69	-1.96	0.25	2.40	-3.09	-3.15	-3.62	1.06	0.11	8.00	15.45	-0.33	-1.54	-2.17	**23.6**
4156	1440	1,6,10,13,17,19,22,25,29,39,41,43,47,46,48,52,53,54	3.02	-0.12	10.81	-2.72	-7.21	-2.32	4.55	-7.08	-4.38	4.64	-0.44	0.11	10.27	15.78	2.45	-1.54	-2.17	**23.7**
4157	3775	2,4,7,11,13,12,14,30,31,34,36,39,44,55	0.79	-2.45	9.73	6.79	3.85	-1.46	0.96	5.07	-2.39	14.34	-1.28	-1.80	5.62	-7.27	-3.11	-1.54	-2.17	**23.7**
4158	4367	2,4,7,9,10,12,14,30,31,34,35,37,42,46,48,51	3.72	-1.41	7.24	12.18	0.20	1.11	4.55	-0.46	-5.64	1.85	1.49	2.02	4.36	-0.69	-3.11	-1.54	-2.17	**23.7**
4159	4576	2,4,7,9,10,13,17,21,27,26,31,34,36,39,45,55	1.74	1.18	7.12	2.15	-2.85	1.97	0.25	0.26	4.96	9.62	-0.69	-1.80	5.79	-2.99	-3.11	2.28	-2.17	**23.7**
4160	2059	1,6,9,11,13,16,18,19,22,24,29,39,41,43,47,49,53,54	1.16	0.92	5.19	-4.33	-2.95	-2.32	0.96	-0.13	-1.02	4.56	-1.03	0.11	8.71	15.12	2.45	-1.54	-2.17	**23.7**
4161	667	1,3,7,9,10,13,17,18,20,23,26,31,34,36,39,41,43,47,46,48,51	3.55	1.70	6.51	6.93	-6.89	-0.60	1.68	1.12	-0.48	6.65	0.04	2.02	4.32	-3.98	1.06	2.28	-2.17	**23.7**
4162	4449	2,4,7,9,10,13,17,18,20,23,27,28,31,30,32,46,47,50,54	3.22	1.70	0.70	-2.94	2.22	1.97	3.83	-1.53	6.94	1.50	0.52	-1.80	5.85	3.26	-3.11	-1.54	2.94	**23.7**
4163	4406	2,4,7,9,10,13,17,18,20,23,26,30,32,46,49,53,54	2.98	1.44	0.87	-3.34	1.05	0.25	3.11	0.56	6.03	-1.48	0.93	0.11	5.83	3.26	-3.11	2.28	2.94	**23.7**
4164	751	1,3,7,9,10,13,17,19,22,24,29,36,38,41,44,55	1.95	0.40	3.87	-5.93	1.42	-0.60	-0.47	-2.18	0.93	-3.05	0.32	-1.80	8.38	16.77	1.06	-1.54	4.21	**23.7**
4165	1417	1,6,10,13,17,19,22,25,29,36,35,37,40,43,47,46,48,51	3.67	0.40	7.29	1.08	-6.81	2.82	3.11	-8.36	-4.75	-3.36	1.22	2.02	10.89	15.78	2.45	-1.54	-2.17	**23.8**
4166	1167	1,3,7,9,10,16,20,23,27,28,31,30,32,48,51	1.43	-0.12	6.45	-6.71	-6.70	2.82	4.55	-1.84	3.62	0.08	0.16	-1.80	9.83	9.52	1.06	-1.54	2.94	**23.8**
4167	3329	2,4,3,6,9,11,13,16,18,19,22,25,29,36,38,41,44,55	1.62	0.66	4.14	-5.51	5.03	-1.46	-0.47	-2.33	-0.06	-2.81	0.17	-1.80	8.79	15.45	-0.33	-1.54	4.21	**23.8**
4168	3307	2,4,3,6,9,11,13,16,18,19,22,24,29,39,41,40,42,47,50,54	1.46	1.70	5.42	-3.65	-2.53	-1.46	1.68	-2.61	1.30	5.16	-1.21	-1.80	9.22	15.12	-0.33	-1.54	-2.17	**23.8**
4169	1297	1,6,10,13,17,18,20,23,26,30,32,46,47,50,54	3.04	0.66	0.90	-3.37	0.74	2.82	3.11	-5.93	8.01	-0.66	0.86	-1.80	5.78	1.95	2.45	2.28	2.94	**23.8**
4170	2977	2,4,3,6,10,16,18,21,28,31,30,32,46,47,50,54	3.03	1.18	1.58	-3.85	3.68	3.68	3.83	-9.09	4.45	-1.83	1.02	-1.80	7.67	9.19	-0.33	-1.54	2.94	**23.8**
4171	3544	2,4,3,6,9,11,17,18,20,23,26,31,34,36,39,45,55	1.88	1.18	6.65	5.43	-2.76	0.25	-1.19	3.18	7.87	12.07	-0.91	-1.80	4.06	-11.89	-0.33	2.28	-2.17	**23.8**
4172	986	1,3,7,9,10,16,18,19,22,24,29,36,38,40,42,49,53,54	0.44	0.66	-2.11	-4.98	3.28	0.25	-1.19	0.62	-0.37	-3.36	0.01	0.11	3.73	23.02	1.06	-1.54	4.21	**23.9**
4173	1274	1,6,10,12,14,30,31,34,38,40,42,46,48,52,53,54	2.79	-2.45	4.26	9.79	6.03	1.11	3.11	-2.69	-4.20	1.97	1.22	0.11	-0.30	-2.01	2.45	-1.54	4.21	**23.9**
4174	3915	2,4,7,11,13,16,18,19,22,24,29,39,41,43,47,49,53,54	0.90	0.92	5.07	-4.04	-2.50	-3.18	1.68	4.28	-0.71	4.51	-1.18	0.11	8.40	16.44	-3.11	-1.54	-2.17	**23.9**
4175	2648	2,4,3,6,10,13,17,19,22,24,29,36,38,40,42,46,48,52,53,54	3.23	1.18	4.69	1.59	-1.91	-0.60	1.68	-6.67	-1.21	-3.87	1.20	0.11	6.68	15.45	-0.33	-1.54	4.21	**23.9**
4176	286	1,3,7,11,13,16,20,23,26,31,34,35,37,40,41,45,55	2.51	0.40	1.13	3.48	1.49	2.82	-0.47	7.81	8.30	0.12	0.77	-1.80	0.48	-4.31	1.06	2.28	-2.17	**23.9**
4177	1193	1,3,7,9,10,16,20,23,27,28,34,36,39,41,43,47,46,48,51	3.15	0.14	5.82	6.86	-4.64	-0.60	0.96	1.12	-1.90	8.72	-0.35	2.02	2.99	2.28	1.06	-1.54	-2.17	**23.9**
4178	2418	1,6,9,11,17,21,27,26,30,32,46,49,53,54	2.97	0.40	2.57	-3.36	0.98	2.82	4.55	-1.65	4.64	-4.38	1.54	0.11	8.74	-3.65	2.45	2.28	2.94	**24.0**
4179	1025	1,3,7,9,10,16,18,19,22,25,29,39,41,40,42,47,50,54	0.53	0.40	4.24	-8.60	-1.59	-0.60	2.40	-2.27	-1.21	5.75	-1.81	-1.80	7.83	23.35	1.06	-1.54	-2.17	**24.0**
4180	5124	2,5,19,18,21,28,31,33,37,42,46,48,52,53,54	0.78	0.66	7.89	-3.52	-11.56	1.97	-0.47	-1.44	2.27	5.19	-0.85	5.84	8.41	5.24	-0.33	2.28	1.66	**24.0**

Table F-3: Weighted, Sorted Z-scores for All Routes

Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
4181	122	1,3,7,11,13,15,23,27,28,34,36,39,45,55	1.33	-0.12	7.56	1.11	-1.95	1.11	-1.19	8.67	5.85	14.03	-1.55	-1.80	5.18	-11.56	1.06	-1.54	-2.17	**24.0**
4182	2909	2,4,3,6,10,16,18,19,22,25,29,36,35,37,42,46,48,51	3.47	0.14	7.10	1.31	-5.29	0.25	2.40	-8.76	-4.75	-3.52	1.17	2.02	10.52	22.04	-0.33	-1.54	-2.17	**24.0**
4183	3447	2,4,3,6,9,11,13,16,20,23,26,31,34,36,39,41,40,42,46,48,51	3.61	1.44	7.05	9.12	-5.16	-1.46	0.96	0.87	0.28	6.27	0.22	2.02	4.70	-5.63	-0.33	2.28	-2.17	**24.1**
4184	3197	2,4,3,6,9,11,13,15,23,26,30,32,46,47,50,54	3.26	1.96	3.24	-4.61	1.53	1.97	3.11	-1.09	8.19	-0.92	0.80	-1.80	9.21	-5.63	-0.33	2.28	2.94	**24.1**
4185	5243	2,5,19,21,28,34,38,43,47,49,53,54	-2.09	0.14	0.92	-8.66	-1.71	2.82	-4.06	2.11	5.27	5.83	-2.03	5.84	4.52	5.24	-0.33	2.28	8.05	**24.1**
4186	2264	1,6,9,11,13,16,20,23,27,28,34,38,41,45,55	2.25	-0.64	0.34	3.51	5.89	1.97	-1.19	4.47	7.87	2.34	0.47	-1.80	-0.83	-5.63	2.45	-1.54	4.21	**24.1**
4187	535	1,3,7,11,17,21,27,26,31,34,36,39,41,43,47,46,48,51	3.29	0.66	8.09	7.21	-6.51	1.11	3.83	3.31	-1.55	3.70	0.49	2.02	6.92	-9.58	1.06	2.28	-2.17	**24.2**
4188	4274	2,4,7,11,17,21,27,26,30,32,46,49,53,54	2.72	0.40	2.45	-3.06	1.43	1.97	5.26	2.75	4.96	-4.43	1.39	0.11	8.43	-2.33	-3.11	2.28	2.94	**24.2**
4189	4428	2,4,7,9,10,13,17,18,20,23,26,31,34,36,39,45,55	1.72	1.18	5.99	3.38	-3.03	0.25	-1.19	3.02	7.11	12.28	-1.11	-1.80	3.36	-3.98	-3.11	2.28	-2.17	**24.2**
4190	3615	2,4,3,6,9,11,17,19,22,24,29,36,35,37,42,46,48,51	4.15	0.92	8.24	5.19	-7.98	0.25	3.11	-3.89	-1.89	-4.23	1.66	2.02	11.82	8.86	-0.33	-1.54	-2.17	**24.2**
4191	3650	2,4,3,6,9,11,17,19,22,25,29,36,38,40,42,46,48,52,53,54	2.64	0.92	4.92	0.94	-0.04	-0.60	3.11	-1.62	-1.86	-3.74	0.93	0.11	7.01	9.19	-0.33	-1.54	4.21	**24.2**
4192	176	1,3,7,11,13,16,18,19,22,25,29,36,38,40,42,49,53,54	-0.28	0.40	-1.98	-5.23	5.38	0.25	0.25	5.67	-1.05	-3.23	-0.25	0.11	3.71	16.77	1.06	-1.54	4.21	**24.3**
4193	5150	2,5,19,18,21,28,34,38,40,42,49,53,54	-1.97	0.66	1.00	-9.06	-1.93	2.82	-4.06	2.11	5.27	5.63	-2.02	5.84	4.74	5.24	-0.33	2.28	8.05	**24.3**
4194	996	1,3,7,9,10,16,18,19,22,24,29,39,41,40,42,49,53,54	1.04	0.40	4.55	-6.70	-3.39	-2.32	0.96	-0.28	-1.78	4.57	-1.26	0.11	8.04	23.02	1.06	-1.54	-2.17	**24.3**
4195	4120	2,4,7,11,13,16,20,23,27,28,34,38,41,45,55	1.99	-0.64	0.22	3.80	6.34	1.11	-0.47	8.88	8.18	2.29	0.32	-1.80	-1.14	-4.31	-3.11	-1.54	4.21	**24.3**
4196	562	1,3,7,11,17,21,28,31,30,32,46,49,53,54	2.57	-0.12	1.98	-3.27	2.22	2.82	5.26	3.15	3.54	-3.00	1.17	0.11	7.77	-2.33	1.06	-1.54	2.94	**24.3**
4197	2658	2,4,3,6,10,13,17,19,22,24,29,39,41,40,42,46,48,52,53,54	3.84	0.92	11.35	-0.13	-8.59	-3.18	3.83	-7.57	-2.63	4.06	-0.07	0.11	10.99	15.45	-0.33	-1.54	-2.17	**24.3**
4198	1710	1,6,10,16,18,21,27,26,31,34,38,41,45,55	2.43	-0.12	1.34	0.22	4.60	3.68	-0.47	-3.24	6.03	-2.10	1.09	-1.80	1.82	1.95	2.45	2.28	4.21	**24.4**
4199	2183	1,6,9,11,13,16,20,23,26,30,32,48,51	1.44	-0.12	7.41	-4.88	-7.51	2.82	4.55	-1.69	5.80	-2.34	0.64	-1.80	10.77	1.62	2.45	2.28	2.94	**24.4**
4200	4954	2,4,7,9,10,16,20,23,27,28,34,36,39,45,55	1.32	-0.38	5.30	3.32	-0.77	0.25	-1.91	3.02	5.69	14.35	-1.49	-1.80	2.03	2.28	-3.11	-1.54	-2.17	**24.4**
4201	1229	1,3,7,9,8,14,30,31,34,38,40,42,46,48,51	3.49	-1.93	13.66	5.79	0.94	1.11	5.98	-0.58	-13.06	-0.04	1.96	3.93	8.39	-8.92	1.06	-1.54	4.21	**24.4**
4202	2440	1,6,9,11,17,21,27,26,31,34,36,39,45,55	1.71	0.14	7.70	3.36	-3.09	2.82	0.25	0.82	5.72	9.38	-0.50	-1.80	6.27	-10.90	2.45	2.28	-2.17	**24.4**
4203	2045	1,6,9,11,13,16,18,19,22,24,29,36,38,40,42,47,50,54	0.68	0.92	-1.32	-2.76	3.65	1.97	-0.47	-1.31	2.72	-2.80	0.05	-1.80	4.69	15.12	2.45	-1.54	4.21	**24.4**
4204	2313	1,6,9,11,17,18,20,23,27,28,31,30,32,46,47,50,54	3.20	0.66	1.27	-1.73	1.98	2.82	3.83	-0.98	7.70	1.26	0.70	-1.80	6.33	-4.64	2.45	-1.54	2.94	**24.5**
4205	2270	1,6,9,11,17,18,20,23,26,30,32,46,49,53,54	2.96	0.40	1.44	-2.12	0.81	1.11	3.11	1.11	6.79	-1.72	1.12	0.11	6.31	-4.64	2.45	2.28	2.94	**24.5**
4206	1280	1,6,10,12,14,30,31,34,38,43,47,46,48,52,53,54	2.79	-2.71	4.28	10.19	6.25	1.11	3.11	-2.69	-4.20	2.17	1.22	0.11	-0.27	-2.01	2.45	-1.54	4.21	**24.5**
4207	2654	2,4,3,6,10,13,17,19,22,24,29,36,38,43,47,46,48,52,53,54	3.24	0.92	4.71	1.99	-1.69	-0.60	1.68	-6.67	-1.21	-3.67	1.21	0.11	6.72	15.45	-0.33	-1.54	4.21	**24.5**
4208	460	1,3,7,11,17,19,22,24,29,36,35,37,40,43,47,46,48,52,53,54	3.20	0.66	5.57	2.79	-5.36	1.11	3.11	2.02	-1.08	-4.15	1.25	0.11	7.77	10.18	1.06	-1.54	-2.17	**24.5**
4209	4732	2,4,7,9,10,16,18,19,22,24,29,36,35,37,40,43,47,46,48,52,53,54	3.43	1.18	5.05	1.41	-4.10	0.25	1.68	-3.34	-2.16	-3.83	1.15	0.11	7.49	23.02	-3.11	-1.54	-2.17	**24.5**
4210	4039	2,4,7,11,13,16,20,23,26,30,32,48,51	1.18	-0.12	7.29	-4.58	-7.06	1.97	5.26	2.72	6.12	-2.40	0.49	-1.80	10.46	2.94	-3.11	2.28	2.94	**24.6**
4211	4499	2,4,7,9,10,13,17,19,22,24,29,36,35,37,42,46,48,51	3.99	0.92	7.58	3.15	-8.24	0.25	3.11	-4.05	-2.65	-4.02	1.46	2.02	11.12	16.77	-3.11	-1.54	-2.17	**24.6**
4212	4296	2,4,7,11,17,21,27,26,31,34,36,39,45,55	1.46	0.14	7.58	3.66	-2.65	1.97	0.96	5.22	6.04	9.33	-0.65	-1.80	5.96	-9.58	-3.11	2.28	-2.17	**24.6**
4213	4534	2,4,7,9,10,13,17,19,22,25,29,36,38,40,42,46,48,52,53,54	2.49	0.92	4.26	-1.10	-0.30	-0.60	3.11	-1.78	-2.62	-3.54	0.73	0.11	6.30	17.10	-3.11	-1.54	4.21	**24.6**
4214	3901	2,4,7,11,13,16,18,19,22,24,29,36,38,40,42,47,50,54	0.43	0.92	-1.44	-2.46	4.09	1.11	0.25	3.09	3.03	-2.85	-0.10	-1.80	4.38	16.44	-3.11	-1.54	4.21	**24.6**
4215	3065	2,4,3,6,10,16,20,23,27,28,31,30,32,46,47,50,54	3.09	0.66	0.51	-2.62	3.50	1.97	2.40	-6.33	6.59	1.58	0.57	-1.80	5.26	8.20	-0.33	-1.54	2.94	**24.7**
4216	3022	2,4,3,6,10,16,20,23,26,30,32,46,49,53,54	2.86	0.40	0.67	-3.01	2.33	0.25	1.68	-4.25	5.68	-1.40	0.99	0.11	5.24	8.20	-0.33	2.28	2.94	**24.7**
4217	387	1,3,7,11,17,18,20,23,26,31,34,36,39,41,43,47,46,48,51	3.27	0.66	6.96	8.45	-6.68	-0.60	2.40	6.08	0.60	6.36	0.07	2.02	4.49	-10.57	1.06	2.28	-2.17	**24.7**
4218	4169	2,4,7,11,17,18,20,23,27,28,31,30,32,46,47,50,54	2.94	0.66	1.15	-1.43	2.43	1.97	4.55	3.43	8.01	1.21	0.55	-1.80	6.02	-3.32	-3.11	-1.54	2.94	**24.7**
4219	4126	2,4,7,11,17,18,20,23,26,30,32,46,49,53,54	2.70	0.40	1.32	-1.82	1.26	0.25	3.83	5.51	7.10	-1.77	0.97	0.11	6.00	-3.32	-3.11	2.28	2.94	**24.7**
4220	5222	2,5,19,21,28,34,35,37,42,46,48,52,53,54	0.57	0.14	7.85	-3.41	-9.77	1.97	-1.19	-1.44	3.47	4.93	-0.89	5.84	7.75	5.24	-0.33	2.28	1.66	**24.7**
4221	4807	2,4,7,9,10,16,18,21,27,26,31,34,36,39,41,43,47,46,48,51	3.52	1.70	7.56	5.83	-5.26	0.25	2.40	-2.04	-2.63	4.02	0.40	2.02	6.64	3.26	-3.11	2.28	-2.17	**24.7**
4222	2507	2,4,3,6,10,12,14,30,31,34,35,37,40,43,47,46,48,51	4.22	-0.64	7.51	13.10	0.48	2.82	3.83	-5.27	-5.98	2.13	1.63	2.02	4.88	-2.01	-0.33	-1.54	-2.17	**24.7**
4223	471	1,3,7,11,17,19,22,24,29,36,38,41,44,55	1.67	-0.64	4.33	-4.42	1.62	-0.60	0.25	2.78	2.01	-3.34	0.36	-1.80	8.55	10.18	1.06	-1.54	4.21	**24.7**
4224	4743	2,4,7,9,10,16,18,19,22,24,29,36,38,41,44,55	1.91	-0.12	3.80	-5.79	2.88	-1.46	-1.19	-2.58	0.93	-3.02	0.26	-1.80	8.27	23.02	-3.11	-1.54	4.21	**24.7**
4225	3660	2,4,3,6,9,11,17,19,22,25,29,39,41,40,42,46,48,52,53,54	3.24	0.66	11.58	-0.78	-6.72	-3.18	5.26	-2.52	-3.27	4.18	-0.34	0.11	11.31	9.19	-0.33	-1.54	-2.17	**24.7**
4226	186	1,3,7,11,13,16,18,19,22,25,29,39,41,40,42,49,53,54	0.32	0.14	4.68	-6.94	-1.30	-2.32	2.40	4.77	-2.46	4.70	-1.52	0.11	8.02	16.77	1.06	-1.54	-2.17	**24.7**
4227	991	1,3,7,9,10,16,18,19,22,24,29,36,38,43,47,49,53,54	0.45	0.66	-2.10	-4.58	3.50	0.25	-1.19	0.62	-0.37	-3.16	0.01	0.11	3.77	23.02	1.06	-1.54	4.21	**24.7**
4228	2066	1,6,9,11,13,16,18,19,22,25,29,36,35,37,40,43,47,46,48,52,53,54	2.97	0.92	5.30	0.87	-2.46	1.11	2.40	-2.69	-3.15	-3.65	1.05	0.11	7.78	15.45	2.45	-1.54	-2.17	**24.7**
4229	3347	2,4,3,6,9,11,13,16,18,21,27,26,30,32,48,51	1.88	1.96	8.81	-5.29	-6.83	3.68	5.98	-4.85	3.66	-4.97	1.10	-1.80	13.94	2.61	-0.33	2.28	2.94	**24.7**
4230	3656	2,4,3,6,9,11,17,19,22,25,29,36,38,43,47,46,48,52,53,54	2.65	0.66	4.93	1.34	0.18	-0.60	3.11	-1.62	-1.86	-3.55	0.94	0.11	7.04	9.19	-0.33	-1.54	4.21	**24.9**
4231	4834	2,4,7,9,10,16,18,21,28,31,30,32,46,49,53,54	2.80	0.92	1.46	-4.64	3.48	1.97	3.83	-2.21	2.47	-2.68	1.07	0.11	7.49	10.51	-3.11	-1.54	2.94	**24.9**
4232	152	1,3,7,11,13,16,18,19,22,24,29,36,38,43,50,54	0.07	0.14	-1.65	-3.25	3.61	0.25	0.25	3.49	3.03	-3.19	-0.12	-1.80	3.88	16.44	1.06	-1.54	4.21	**24.9**
4233	929	1,3,7,9,10,15,23,27,28,31,30,32,46,47,50,54	3.07	1.18	2.20	-7.26	1.84	2.82	3.11	-0.84	6.01	1.47	0.31	-1.80	8.05	2.28	1.06	-1.54	2.94	**24.9**
4234	886	1,3,7,9,10,15,23,26,30,32,46,49,53,54	2.84	0.92	2.36	-7.66	0.67	1.11	2.40	1.24	5.10	-1.51	0.72	0.11	8.03	2.28	1.06	2.28	2.94	**24.9**
4235	4393	2,4,7,9,10,12,14,30,33,37,40,43,47,46,48,51	3.92	-1.15	7.29	12.47	-1.37	2.82	5.26	-0.46	-6.84	2.15	1.47	2.02	4.84	-0.69	-3.11	-1.54	-2.17	**24.9**

Table F-3: Weighted, Sorted Z-scores for All Routes

		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
4236	2077	1,6,9,11,13,16,18,19,22,25,29,36,38,41,44,55	1.44	-0.38	4.05	-6.34	4.53	-0.60	-0.47	-1.93	-0.06	-2.84	0.16	-1.80	8.56	15.45	2.45	-1.54	4.21	**24.9**
4237	2055	1,6,9,11,13,16,18,19,22,24,29,39,41,40,42,47,50,54	1.29	0.66	5.34	-4.47	-3.03	-0.60	1.68	-2.21	1.30	5.13	-1.22	-1.80	8.99	15.12	2.45	-1.54	-2.17	**24.9**
4238	3922	2,4,7,11,13,16,18,19,22,25,29,36,35,37,40,43,47,46,48,52,53,54	2.71	0.92	5.18	1.16	-2.01	0.25	3.11	1.71	-2.84	-3.70	0.90	0.11	7.47	16.77	-3.11	-1.54	-2.17	**24.9**
4239	726	1,3,7,9,10,13,17,18,20,23,27,28,34,36,39,45,55	1.62	0.66	5.55	3.18	-2.24	1.11	-1.19	3.42	5.69	14.32	-1.41	-1.80	2.65	-3.98	1.06	-1.54	-2.17	**24.9**
4240	1725	1,6,10,16,18,21,28,31,30,32,46,47,50,54	2.86	0.14	1.49	-4.68	3.17	4.54	3.83	-8.69	4.45	-1.86	1.00	-1.80	7.44	9.19	2.45	-1.54	2.94	**24.9**
4241	2292	1,6,9,11,17,18,20,23,26,31,34,36,39,45,55	1.70	0.14	6.57	4.60	-3.27	1.11	-1.19	3.58	7.87	12.04	-0.92	-1.80	3.84	-11.89	2.45	2.28	-2.17	**24.9**
4242	980	1,3,7,9,10,16,18,19,22,24,29,36,35,37,42,46,48,52,53,54	3.11	0.40	4.84	0.67	-4.56	-0.60	1.68	-2.94	-2.16	-4.05	1.15	0.11	7.00	23.02	1.06	-1.54	-2.17	**25.0**
4243	1396	1,6,10,13,17,19,22,24,29,36,38,40,42,46,48,52,53,54	3.06	0.14	4.60	0.76	-2.42	0.25	1.68	-6.27	-1.21	-3.90	1.19	0.11	6.46	15.45	2.45	-1.54	4.21	**25.0**
4244	1235	1,3,7,9,8,14,30,31,34,38,43,47,46,48,51	3.49	-2.19	13.67	6.19	1.16	1.11	5.98	-0.58	-13.06	0.16	1.97	3.93	8.43	-8.92	1.06	-1.54	4.21	**25.0**
4245	74	1,3,7,11,13,15,23,26,31,34,38,41,45,55	2.25	0.14	2.40	-0.45	3.70	1.97	-0.47	9.56	8.68	0.19	0.50	-1.80	2.39	-11.56	1.06	2.28	4.21	**25.1**
4246	4544	2,4,7,9,10,13,17,19,22,25,29,39,41,40,42,46,48,52,53,54	3.09	0.66	10.92	-2.82	-6.98	-3.18	5.26	-2.67	-4.04	4.39	-0.54	0.11	10.61	17.10	-3.11	-1.54	-2.17	**25.1**
4247	3933	2,4,7,11,13,16,18,19,22,25,29,36,38,41,44,55	1.19	-0.38	3.94	-6.04	4.98	-1.46	0.25	2.47	0.26	-2.89	0.01	-1.80	8.25	16.77	-3.11	-1.54	4.21	**25.1**
4248	3911	2,4,7,11,13,16,18,19,22,24,29,39,41,40,42,47,50,54	1.03	0.66	5.22	-4.18	-2.58	-1.46	2.40	2.19	1.62	5.07	-1.37	-1.80	8.68	16.44	-3.11	-1.54	-2.17	**25.1**
4249	181	1,3,7,11,13,16,18,19,22,25,29,36,38,43,47,49,53,54	-0.27	0.40	-1.96	-4.83	5.60	0.25	0.25	5.67	-1.05	-3.03	-0.24	0.11	3.75	16.77	1.06	-1.54	4.21	**25.1**
4250	3044	2,4,3,6,10,16,20,23,26,31,34,36,39,45,55	1.60	0.14	5.80	3.71	-1.74	0.25	-2.62	-1.78	6.76	12.36	-1.05	-1.80	2.77	0.96	-0.33	2.28	-2.17	**25.1**
4251	4148	2,4,7,11,17,18,20,23,26,31,34,36,39,45,55	1.44	0.14	6.45	4.90	-2.82	0.25	-0.47	7.98	8.18	11.99	-1.07	-1.80	3.53	-10.57	-3.11	2.28	-2.17	**25.1**
4252	5155	2,5,19,18,21,28,34,38,43,47,49,53,54	-1.97	0.66	1.01	-8.66	-1.71	2.82	-4.06	2.11	5.27	5.83	-2.02	5.84	4.77	5.24	-0.33	2.28	8.05	**25.1**
4253	1657	1,6,10,16,18,19,22,25,29,36,35,37,42,46,48,51	3.30	-0.90	7.01	0.48	-5.80	1.11	2.40	-8.36	-4.75	-3.55	1.16	2.02	10.29	22.04	2.45	-1.54	-2.17	**25.2**
4254	3159	2,4,3,6,9,11,13,12,14,30,31,34,35,37,42,46,48,51	4.08	-0.90	8.05	14.62	0.69	1.11	4.55	-0.31	-4.87	1.64	1.76	2.02	5.40	-8.59	-0.33	-1.54	-2.17	**25.2**
4255	3451	2,4,3,6,9,11,13,16,20,23,26,31,34,36,39,41,43,47,46,48,51	3.61	1.70	7.06	9.52	-4.94	-1.46	0.96	0.87	0.28	6.47	0.23	2.02	4.73	-5.63	-0.33	2.28	-2.17	**25.2**
4256	2195	1,6,9,11,13,16,20,23,26,31,34,36,39,41,40,42,46,48,51	3.43	0.40	6.96	8.30	-5.66	-0.60	0.96	1.27	0.28	6.24	0.21	2.02	4.47	-5.63	2.45	2.28	-2.17	**25.2**
4257	1945	1,6,9,11,13,15,23,26,30,32,46,47,50,54	3.08	0.92	3.15	-5.44	1.03	2.82	3.11	-0.69	8.19	-0.95	0.79	-1.80	8.99	-5.63	2.45	2.28	2.94	**25.2**
4258	4540	2,4,7,9,10,13,17,19,22,25,29,36,38,43,47,46,48,52,53,54	2.49	0.66	4.27	-0.71	-0.08	-0.60	3.11	-1.78	-2.62	-3.34	0.74	0.11	6.33	17.10	-3.11	-1.54	4.21	**25.2**
4259	261	1,3,7,11,13,16,18,21,28,34,36,39,41,40,42,46,48,51	3.01	0.40	7.48	7.15	-4.25	1.11	3.11	3.31	-2.96	4.82	0.20	2.02	5.86	-3.32	1.06	-1.54	-2.17	**25.3**
4260	1116	1,3,7,9,10,16,18,21,28,34,38,41,45,55	2.08	-0.12	0.78	0.31	5.84	3.68	0.25	1.56	4.96	-0.87	0.70	-1.80	0.94	3.26	1.06	-1.54	4.21	**25.3**
4261	2363	1,6,9,11,17,19,22,24,29,36,35,37,42,46,48,51	3.97	-0.12	8.15	4.37	-8.48	1.11	3.11	-3.49	-1.89	-4.26	1.64	2.02	11.60	8.86	2.45	-1.54	-2.17	**25.3**
4262	90	1,3,7,11,13,15,23,27,28,31,30,32,46,49,53,54	2.87	0.66	2.64	-5.60	2.12	1.11	3.11	6.20	4.77	0.42	0.58	0.11	8.23	-4.31	1.06	-1.54	2.94	**25.4**
4263	908	1,3,7,9,10,15,23,26,31,34,36,39,45,55	1.58	0.66	7.49	-0.94	-3.41	1.11	-1.91	3.71	6.18	12.25	-1.32	-1.80	5.56	-4.97	1.06	2.28	-2.17	**25.4**
4264	2398	1,6,9,11,17,19,22,25,29,36,38,40,42,46,48,52,53,54	2.47	-0.12	4.83	0.11	-0.54	0.25	3.11	-1.22	-1.86	-3.77	0.92	0.11	6.78	9.19	2.45	-1.54	4.21	**25.4**
4265	641	1,3,7,9,10,12,14,30,33,37,42,46,48,51	3.59	-1.93	7.08	11.73	-1.82	1.97	5.26	-0.06	-6.84	1.92	1.47	2.02	4.36	-0.69	1.06	-1.54	-2.17	**25.4**
4266	4051	2,4,7,11,13,16,20,23,26,31,34,36,39,41,40,42,46,48,51	3.18	0.40	6.84	8.59	-5.21	-1.46	1.68	5.68	0.60	6.19	0.06	2.02	4.16	-4.31	-3.11	2.28	-2.17	**25.4**
4267	198	1,3,7,11,13,16,18,21,27,26,31,34,35,37,40,41,45,55	2.77	1.44	2.44	2.24	1.66	4.54	0.96	5.05	6.16	-2.54	1.22	-1.80	3.43	-3.32	1.06	2.28	-2.17	**25.4**
4268	170	1,3,7,11,13,16,18,19,22,25,29,36,35,37,42,46,48,52,53,54	2.39	0.14	4.97	0.42	-2.47	-0.60	3.11	2.11	-2.84	-3.93	0.90	0.11	6.98	16.77	1.06	-1.54	-2.17	**25.4**
4269	4906	2,4,7,9,10,16,20,23,26,31,34,38,41,45,55	2.24	-0.12	0.15	1.75	4.88	1.11	-1.19	3.92	8.52	0.51	0.55	-1.80	-0.76	2.28	-3.11	2.28	4.21	**25.4**
4270	3801	2,4,7,11,13,15,23,26,30,32,46,47,50,54	2.82	0.92	3.03	-5.14	1.48	1.97	3.83	3.71	8.51	-1.00	0.63	-1.80	8.68	-4.31	-3.11	2.28	2.94	**25.4**
4271	25	1,3,7,11,13,12,14,30,31,34,38,41,44,55	1.61	-2.71	4.13	5.02	10.29	0.25	1.68	6.37	-0.97	2.54	0.46	-1.80	2.13	-7.27	1.06	-1.54	4.21	**25.4**
4272	3669	2,4,3,6,9,11,17,21,27,26,30,32,46,47,50,54	3.28	1.70	2.81	-2.27	1.63	3.68	5.26	-4.14	6.97	-3.58	1.39	-1.80	9.29	-3.65	-0.33	2.28	2.94	**25.5**
4273	826	1,3,7,9,10,13,17,21,27,26,31,34,38,41,45,55	2.55	0.92	1.53	0.37	3.58	3.68	0.96	1.56	6.37	-2.18	1.05	-1.80	2.29	-2.99	1.06	2.28	4.21	**25.5**
4274	2662	2,4,3,6,10,13,17,19,22,24,29,39,41,43,47,46,48,52,53,54	3.84	1.18	11.37	0.27	-8.37	-3.18	3.83	-7.57	-2.63	4.25	-0.06	0.11	11.02	15.45	-0.33	-1.54	-2.17	**25.5**
4275	1406	1,6,10,13,17,19,22,24,29,39,41,40,42,46,48,52,53,54	3.66	-0.12	11.26	-0.95	-9.09	-2.32	3.83	-7.17	-2.63	4.03	-0.08	0.11	10.76	15.45	2.45	-1.54	-2.17	**25.5**
4276	4219	2,4,7,11,17,19,22,24,29,36,35,37,42,46,48,51	3.71	-0.12	8.03	4.66	-8.03	0.25	3.83	0.91	-1.57	-4.31	1.49	2.02	11.29	10.18	-3.11	-1.54	-2.17	**25.5**
4277	4	1,3,7,11,13,12,14,30,31,34,35,37,40,43,47,46,48,52,53,54	3.13	-1.15	5.38	12.22	3.30	1.97	4.55	5.61	-4.07	1.73	1.35	0.11	1.34	-7.27	1.06	-1.54	-2.17	**25.5**
4278	3422	2,4,3,6,9,11,13,16,18,21,28,34,36,39,45,55	1.62	1.18	7.18	4.53	-0.11	1.97	-0.47	0.42	4.31	10.73	-0.77	-1.80	5.47	-4.64	-0.33	-1.54	-2.17	**25.6**
4279	3359	2,4,3,6,9,11,13,16,18,21,27,26,31,34,36,39,41,43,47,46,48,51	3.87	2.48	8.36	7.88	-4.99	0.25	2.40	-1.89	-1.86	3.61	0.67	2.02	7.64	-4.64	-0.33	2.28	-2.17	**25.6**
4280	2639	2,4,3,6,10,13,17,19,22,24,29,36,35,37,40,43,47,46,48,51	4.49	1.70	7.85	4.07	-7.97	1.97	2.40	-8.85	-3.00	-3.74	1.60	2.02	11.64	15.45	-0.33	-1.54	-2.17	**25.6**
4281	4254	2,4,7,11,17,19,22,25,29,36,38,40,42,46,48,52,53,54	2.21	-0.12	4.71	0.41	-0.10	-0.60	3.83	3.18	-1.55	-3.83	0.77	0.11	6.47	10.51	-3.11	-1.54	4.21	**25.6**
4282	1402	1,6,10,13,17,19,22,24,29,36,38,43,47,46,48,52,53,54	3.06	-0.12	4.62	1.16	-2.20	0.25	1.68	-6.27	-1.21	-3.70	1.19	0.11	6.49	15.45	2.45	-1.54	4.21	**25.6**
4283	5134	2,5,19,18,21,28,34,35,37,42,46,48,52,53,54	0.69	0.66	7.94	-3.41	-9.77	1.97	-1.19	-1.44	3.47	4.93	-0.88	5.84	8.01	5.24	-0.33	2.28	1.66	**25.7**
4284	999	1,3,7,9,10,16,18,19,22,24,29,39,41,43,47,49,53,54	1.05	0.92	4.56	-6.30	-3.17	-2.32	0.96	-0.28	-1.78	4.77	-1.25	0.11	8.07	23.02	1.06	-1.54	-2.17	**25.7**
4285	4922	2,4,7,9,10,16,20,23,27,28,31,30,32,46,49,53,54	2.86	0.40	0.38	-3.40	3.31	0.25	2.40	0.56	4.61	0.74	0.63	0.11	5.08	9.52	-3.11	-1.54	2.94	**25.7**
4286	1813	1,6,10,16,20,23,27,28,31,30,32,46,47,50,54	2.92	-0.38	0.42	-3.44	3.00	2.82	2.40	-5.93	6.59	1.55	0.56	-1.80	5.04	8.20	2.45	-1.54	2.94	**25.8**
4287	1770	1,6,10,16,20,23,26,30,32,46,49,53,54	2.68	-0.64	0.59	-3.83	1.83	1.11	1.68	-3.85	5.68	-1.43	0.97	0.11	5.02	8.20	2.45	2.28	2.94	**25.8**
4288	1255	1,6,10,12,14,30,31,34,35,37,40,43,47,46,48,51	4.04	-1.67	7.42	12.28	-0.03	3.68	3.83	-4.87	-5.98	2.10	1.61	2.02	4.65	-2.01	2.45	-1.54	-2.17	**25.8**
4289	3664	2,4,3,6,9,11,17,19,22,25,29,39,41,43,47,46,48,52,53,54	3.25	0.92	11.59	-0.38	-6.50	-3.18	5.26	-2.52	-3.27	4.38	-0.33	0.11	11.35	9.19	-0.33	-1.54	-2.17	**25.8**
4290	2408	1,6,9,11,17,19,22,25,29,39,41,40,42,46,48,52,53,54	3.07	-0.38	11.49	-1.60	-7.22	-2.32	5.26	-2.12	-3.27	4.15	-0.35	0.11	11.09	9.19	2.45	-1.54	-2.17	**25.8**

Table F-3: Weighted, Sorted Z-scores for All Routes

Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
4291	4553	2,4,7,9,10,13,17,21,27,26,30,32,46,47,50,54	3.13	1.70	2.15	-4.32	1.36	3.68	5.26	-4.29	6.21	-3.38	1.19	-1.80	8.58	4.25	-3.11	2.28	2.94	**25.8**
4292	160	1,3,7,11,13,16,18,19,22,24,29,39,41,43,50,54	0.67	0.40	5.01	-4.97	-3.07	-2.32	2.40	2.59	1.62	4.74	-1.39	-1.80	8.19	16.44	1.06	-1.54	-2.17	**25.9**
4293	5237	2,5,19,21,28,34,38,40,42,47,50,54	-1.97	0.40	1.06	-8.80	-1.79	4.54	-3.34	0.03	7.59	6.40	-2.22	3.93	4.80	5.24	-0.33	2.28	8.05	**25.9**
4294	446	1,3,7,11,17,18,20,23,27,28,34,36,39,45,55	1.34	-0.38	6.01	4.69	-2.03	1.11	-0.47	8.38	6.77	14.03	-1.37	-1.80	2.82	-10.57	1.06	-1.54	-2.17	**25.9**
4295	2095	1,6,9,11,13,16,18,21,27,26,30,32,48,51	1.70	0.92	8.72	-6.12	-7.33	4.54	5.98	-4.45	3.66	-5.00	1.08	-1.80	13.72	2.61	2.45	2.28	2.94	**25.9**
4296	3641	2,4,3,6,9,11,17,19,22,25,29,36,35,37,40,43,47,46,48,51	3.90	1.44	8.07	3.42	-6.09	1.97	3.83	-3.80	-3.64	-3.62	1.33	2.02	11.96	9.19	-0.33	-1.54	-2.17	**25.9**
4297	3521	2,4,3,6,9,11,17,18,20,23,26,30,32,46,47,50,54	3.27	1.70	1.68	-1.04	1.46	1.97	3.83	-1.37	9.11	-0.92	0.97	-1.80	6.86	-4.64	-0.33	2.28	2.94	**26.0**
4298	678	1,3,7,9,10,13,17,18,20,23,26,31,34,38,41,45,55	2.54	0.92	0.40	1.61	3.41	1.97	-0.47	4.32	8.52	0.48	0.63	-1.80	-0.14	-3.98	1.06	2.28	4.21	**26.0**
4299	2404	1,6,9,11,17,19,22,25,29,36,38,43,47,46,48,52,53,54	2.47	-0.38	4.84	0.51	-0.32	0.25	3.11	-1.22	-1.86	-3.58	0.93	0.11	6.82	9.19	2.45	-1.54	4.21	**26.0**
4300	623	1,3,7,9,10,12,14,30,31,34,36,39,44,55	0.93	-1.93	9.22	4.53	3.18	-0.60	0.25	0.51	-3.46	14.60	-1.35	-1.80	5.29	-0.69	1.06	-1.54	-2.17	**26.0**
4301	5161	2,5,19,21,27,26,31,34,35,37,40,41,44,55	0.21	0.92	7.96	-10.19	-7.18	2.82	-4.06	-2.15	6.69	4.55	-1.33	3.93	11.18	5.24	-0.33	6.10	1.66	**26.0**
4302	4264	2,4,7,11,17,19,22,25,29,39,41,40,42,46,48,52,53,54	2.81	-0.38	11.37	-1.31	-6.77	-3.18	5.98	2.28	-2.96	4.10	-0.50	0.11	10.78	10.51	-3.11	-1.54	-2.17	**26.0**
4303	841	1,3,7,9,10,13,17,21,28,31,30,32,46,47,50,54	2.98	1.18	1.68	-4.52	2.15	4.54	5.26	-3.89	4.79	-1.94	0.97	-1.80	7.92	4.25	1.06	-1.54	2.94	**26.0**
4304	3951	2,4,7,11,13,16,18,21,27,26,30,32,48,51	1.44	0.92	8.60	-5.82	-6.89	3.68	6.70	-0.04	3.97	-5.06	0.93	-1.80	13.41	3.92	-3.11	2.28	2.94	**26.1**
4305	189	1,3,7,11,13,16,18,19,22,25,29,39,41,43,47,49,53,54	0.33	0.66	4.70	-6.55	-1.08	-2.32	2.40	4.77	-2.46	4.89	-1.51	0.11	8.06	16.77	1.06	-1.54	-2.17	**26.1**
4306	349	1,3,7,11,13,16,20,23,27,28,34,36,39,41,40,42,46,48,51	3.07	-0.12	6.40	8.39	-4.42	-0.60	1.68	6.08	-0.82	8.23	-0.24	2.02	3.46	-4.31	1.06	-1.54	-2.17	**26.1**
4307	2934	2,4,3,6,10,16,18,21,27,26,30,32,46,49,53,54	3.12	1.44	1.98	-4.25	2.51	1.97	3.11	-7.01	3.54	-4.06	1.43	0.11	8.19	9.19	-0.33	2.28	2.94	**26.2**
4308	1204	1,3,7,9,10,16,20,23,27,28,34,38,41,45,55	2.14	-0.64	-0.29	1.54	5.67	1.97	-1.19	4.32	7.10	2.55	0.25	-1.80	-1.46	2.28	1.06	-1.54	4.21	**26.2**
4309	4260	2,4,7,11,17,19,22,25,29,36,38,43,47,46,48,52,53,54	2.21	-0.38	4.72	0.81	0.12	-0.60	3.83	3.18	-1.55	-3.63	0.77	0.11	6.51	10.51	-3.11	-1.54	4.21	**26.2**
4310	4548	2,4,7,9,10,13,17,19,22,25,29,39,41,43,47,46,48,52,53,54	3.10	0.92	10.93	-2.42	-6.76	-3.18	5.26	-2.67	-4.04	4.59	-0.53	0.11	10.64	17.10	-3.11	-1.54	-2.17	**26.2**
4311	3120	2,4,3,6,8,14,30,31,34,36,39,41,40,42,46,48,52,53,54	6.42	-0.64	19.72	6.15	-2.76	-2.32	6.70	-5.98	-14.33	11.84	0.68	2.02	13.02	-10.24	-0.33	-1.54	-2.17	**26.3**
4312	239	1,3,7,11,13,16,18,21,28,31,30,32,48,51	1.29	0.40	8.13	-6.03	-6.10	4.54	6.70	0.36	2.56	-3.62	0.71	-1.80	12.75	3.92	1.06	-1.54	2.94	**26.3**
4313	694	1,3,7,9,10,13,17,18,20,23,27,28,31,30,32,46,49,53,54	3.16	1.44	0.63	-3.54	1.84	1.11	3.11	0.95	4.61	0.71	0.71	0.11	5.71	3.26	1.06	-1.54	2.94	**26.3**
4314	1792	1,6,10,16,20,23,26,31,34,36,39,45,55	1.42	-0.90	5.71	2.89	-2.24	1.11	-2.62	-1.38	6.76	12.33	-1.07	-1.80	2.55	0.96	2.45	2.28	-2.17	**26.3**
4315	4525	2,4,7,9,10,13,17,19,22,25,29,36,35,37,40,43,47,46,48,51	3.75	1.44	7.41	1.38	-6.36	1.97	3.83	-3.96	-4.41	-3.41	1.13	2.02	11.26	17.10	-3.11	-1.54	-2.17	**26.3**
4316	1907	1,6,9,11,13,12,14,30,31,34,35,37,42,46,48,51	3.90	-1.93	7.96	13.80	0.18	1.97	4.55	0.09	-4.87	1.61	1.75	2.02	5.17	-8.59	2.45	-1.54	-2.17	**26.3**
4317	2199	1,6,9,11,13,16,20,23,26,31,34,36,39,41,43,47,46,48,51	3.44	0.66	6.97	8.69	-5.44	-0.60	0.96	1.27	0.28	6.44	0.21	2.02	4.51	-5.63	2.45	2.28	-2.17	**26.3**
4318	4405	2,4,7,9,10,13,17,18,20,23,26,30,32,46,47,50,54	3.11	1.70	1.02	-3.08	1.19	1.97	3.83	-1.53	8.35	-0.71	0.77	-1.80	6.15	3.26	-3.11	2.28	2.94	**26.3**
4319	1123	1,3,7,9,10,16,20,23,26,30,32,48,51	1.32	-0.12	6.78	-6.84	-7.73	2.82	4.55	-1.84	5.04	-2.13	0.41	-1.80	10.14	9.52	1.06	2.28	2.94	**26.4**
4320	546	1,3,7,11,17,21,27,26,31,34,38,41,45,55	2.27	-0.12	1.98	1.89	3.79	3.68	1.68	6.52	7.45	-2.47	1.09	-1.80	2.47	-9.58	1.06	2.28	4.21	**26.4**
4321	265	1,3,7,11,13,16,18,21,28,34,36,39,41,43,47,46,48,51	3.01	0.66	7.49	7.55	-4.03	1.11	3.11	3.31	-2.96	5.01	0.21	2.02	5.90	-3.32	1.06	-1.54	-2.17	**26.4**
4322	3185	2,4,3,6,9,11,13,12,14,30,33,37,40,43,47,46,48,51	4.28	-0.64	8.09	14.91	-0.88	2.82	5.26	-0.31	-6.08	1.94	1.74	2.02	5.88	-8.59	-0.33	-1.54	-2.17	**26.4**
4323	3510	2,4,3,6,9,11,13,16,20,23,27,28,34,36,39,45,55	1.68	0.66	6.11	5.76	-0.28	0.25	-1.91	3.18	6.45	14.14	-1.22	-1.80	3.07	-5.63	-0.33	-1.54	-2.17	**26.4**
4324	4382	2,4,7,9,10,12,14,30,31,34,38,40,42,46,48,52,53,54	2.86	-1.41	4.38	10.09	6.48	0.25	3.83	1.72	-3.86	1.92	1.13	0.11	0.06	-0.69	-3.11	-1.54	4.21	**26.4**
4325	985	1,3,7,9,10,16,18,19,22,24,29,36,38,40,42,47,50,54	0.57	0.92	-1.95	-4.72	3.43	1.97	-0.47	-1.47	1.95	-2.59	-0.17	-1.80	4.05	23.02	1.06	-1.54	4.21	**26.5**
4326	3763	2,4,7,11,13,12,14,30,31,34,35,37,42,46,48,51	3.65	-1.93	7.84	14.10	0.63	1.11	5.26	4.50	-4.56	1.56	1.60	2.02	4.86	-7.27	-3.11	-1.54	-2.17	**26.5**
4327	4055	2,4,7,11,13,16,20,23,26,31,34,36,39,41,43,47,46,48,51	3.18	0.66	6.85	8.99	-4.99	-1.46	1.68	5.68	0.60	6.39	0.06	2.02	4.20	-4.31	-3.11	2.28	-2.17	**26.5**
4328	3288	2,4,3,6,9,11,13,16,18,19,22,24,29,36,35,37,40,43,47,46,48,52,53,54	3.79	2.22	5.85	3.86	-3.62	0.25	1.68	-3.18	-1.40	-4.03	1.43	0.11	8.53	15.12	-0.33	-1.54	-2.17	**26.6**
4329	2548	2,4,3,6,10,12,14,32,48,52,53,54	2.24	-1.67	11.95	-1.13	-1.99	1.11	7.41	-6.94	-0.09	5.19	-0.28	-3.71	10.18	3.26	-0.33	-1.54	2.94	**26.6**
4330	2417	1,6,9,11,17,21,27,26,30,32,46,47,50,54	3.10	0.66	2.73	-3.10	1.12	4.54	5.26	-3.74	6.97	-3.61	1.38	-1.80	9.06	-3.65	2.45	2.28	2.94	**26.6**
4331	1410	1,6,10,13,17,19,22,24,29,39,41,43,47,46,48,52,53,54	3.67	0.14	11.28	-0.55	-8.87	-2.32	3.83	-7.17	-2.63	4.22	-0.08	0.11	10.80	15.45	2.45	-1.54	-2.17	**26.6**
4332	2956	2,4,3,6,10,16,18,21,27,26,31,34,36,39,45,55	1.86	1.18	7.11	2.47	-1.57	1.97	-1.19	-4.54	4.62	9.70	-0.61	-1.80	5.71	1.95	-0.33	2.28	-2.17	**26.6**
4333	2170	1,6,9,11,13,16,18,21,28,34,36,39,45,55	1.44	0.14	7.10	3.70	-0.61	2.82	-0.47	0.82	4.31	10.70	-0.79	-1.80	5.25	-4.64	2.45	-1.54	-2.17	**26.7**
4334	3363	2,4,3,6,9,11,13,16,18,21,27,26,31,34,36,39,41,43,47,46,48,51	3.88	2.74	8.37	8.28	-4.77	0.25	2.40	-1.89	-1.86	3.81	0.67	2.02	7.68	-4.64	-0.33	2.28	-2.17	**26.7**
4335	2107	1,6,9,11,13,16,18,21,27,26,31,34,36,39,41,40,42,46,48,51	3.70	1.44	8.27	7.06	-5.49	1.11	2.40	-1.49	-1.86	3.58	0.65	2.02	7.42	-4.64	2.45	2.28	-2.17	**26.7**
4336	1387	1,6,10,13,17,19,22,24,29,36,35,37,40,43,47,46,48,51	4.32	0.66	7.76	3.25	-8.47	2.82	2.40	-8.45	-3.00	-3.77	1.58	2.02	11.41	15.45	2.45	-1.54	-2.17	**26.7**
4337	3299	2,4,3,6,9,11,13,16,18,19,22,24,29,36,38,41,44,55	2.26	0.92	4.61	-3.35	3.37	-1.46	-1.19	-2.42	1.70	-3.23	0.54	-1.80	9.31	15.12	-0.33	-1.54	4.21	**26.7**
4338	1006	1,3,7,9,10,16,18,19,22,25,29,36,35,37,40,43,47,46,48,52,53,54	2.86	0.92	4.67	-1.10	-2.68	1.11	2.40	-2.85	-3.92	-3.44	0.82	0.11	7.14	23.35	1.06	-1.54	-2.17	**26.8**
4339	4273	2,4,7,11,17,21,27,26,30,32,46,47,50,54	2.85	0.66	2.61	-2.80	1.57	3.68	5.98	0.67	7.28	-3.67	1.23	-1.80	8.75	-2.33	-3.11	2.28	2.94	**26.8**
4340	773	1,3,7,9,10,13,17,19,22,25,29,36,35,37,42,46,48,51	3.42	0.66	7.21	0.64	-6.81	1.11	3.83	-3.56	-4.41	-3.64	1.13	2.02	10.77	17.10	1.06	-1.54	-2.17	**26.8**
4341	175	1,3,7,11,13,16,18,19,22,25,29,36,38,40,42,47,50,54	-0.15	0.66	-1.82	-4.97	5.52	1.97	0.96	3.58	1.28	-2.47	-0.43	-1.80	4.03	16.77	1.06	-1.54	4.21	**26.9**
4342	5149	2,5,19,18,21,28,34,38,40,42,47,50,54	-1.84	0.92	1.15	-8.80	-1.79	4.54	-3.34	0.03	7.59	6.40	-2.21	3.93	5.06	5.24	-0.33	2.28	8.05	**26.9**
4343	4026	2,4,7,11,13,16,18,21,28,34,36,39,45,55	1.18	0.14	6.98	4.00	-0.17	1.97	0.25	5.22	4.62	10.64	-0.94	-1.80	4.94	-3.32	-3.11	-1.54	-2.17	**26.9**
4344	3390	2,4,3,6,9,11,13,16,18,21,28,31,30,32,46,49,53,54	3.16	1.96	2.26	-2.19	3.96	1.97	3.83	-2.05	3.23	-2.88	1.35	0.11	8.53	2.61	-0.33	-1.54	2.94	**26.9**
4345	3963	2,4,7,11,13,16,18,21,27,26,31,34,36,39,41,40,42,46,48,51	3.44	1.44	8.15	7.35	-5.04	0.25	3.11	2.91	-1.55	3.53	0.50	2.02	7.11	-3.32	-3.11	2.28	-2.17	**26.9**

		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
4346	398	1,3,7,11,17,18,20,23,26,31,34,38,41,45,55	2.26	-0.12	0.85	3.13	3.62	1.97	0.25	9.28	9.60	0.19	0.67	-1.80	0.04	-10.57	1.06	2.28	4.21	**26.9**
4347	1017	1,3,7,9,10,16,18,19,22,25,29,36,38,41,44,55	1.33	-0.38	3.42	-8.30	4.31	-0.60	-0.47	-2.09	-0.82	-2.63	-0.07	-1.80	7.93	23.35	1.06	-1.54	4.21	**26.9**
4348	995	1,3,7,9,10,16,18,19,22,24,29,39,41,40,42,47,50,54	1.17	0.66	4.71	-6.44	-3.25	-0.60	1.68	-2.37	0.54	5.33	-1.44	-1.80	8.36	23.02	1.06	-1.54	-2.17	**26.9**
4349	4818	2,4,7,9,10,16,18,21,27,26,31,34,38,41,45,55	2.51	0.92	1.46	0.51	5.05	2.82	0.25	1.16	6.37	-2.15	1.00	-1.80	2.19	3.26	-3.11	2.28	4.21	**26.9**
4350	2522	2,4,3,6,10,12,14,30,31,34,36,39,41,43,50,54	3.77	-0.64	6.30	6.36	4.01	-0.60	3.11	-3.98	-2.79	14.86	-1.14	-1.80	5.54	-2.01	-0.33	-1.54	-2.17	**26.9**
4351	3140	2,4,3,6,8,14,30,33,37,40,41,45,55	6.47	-1.15	16.51	3.21	-0.29	2.82	5.98	-4.95	-8.32	5.90	1.62	0.11	13.35	-10.24	-0.33	-1.54	-2.17	**27.0**
4352	561	1,3,7,11,17,21,28,31,30,32,46,47,50,54	2.70	0.14	2.14	-3.01	2.36	4.54	5.98	1.07	5.87	-2.23	1.01	-1.80	8.09	-2.33	1.06	-1.54	2.94	**27.0**
4353	2412	1,6,9,11,17,19,22,25,29,39,41,43,47,46,48,52,53,54	3.07	-0.12	11.50	-1.20	-7.00	-2.32	5.26	-2.12	-3.27	4.35	-0.34	0.11	11.13	9.19	2.45	-1.54	-2.17	**27.0**
4354	2879	2,4,3,6,10,16,18,19,22,24,29,36,35,37,42,46,48,51	4.12	0.40	7.57	3.47	-6.96	0.25	1.68	-8.85	-3.00	-3.94	1.54	2.02	11.04	21.71	-0.33	-1.54	-2.17	**27.0**
4355	5073	2,5,19,18,21,27,26,31,34,35,37,40,41,44,55	0.34	1.44	8.05	-10.19	-7.18	2.82	-4.06	-2.15	6.69	4.55	-1.32	3.93	11.44	5.24	-0.33	6.10	1.66	**27.0**
4356	4388	2,4,7,9,10,12,14,30,31,34,38,43,47,46,48,52,53,54	2.87	-1.67	4.40	10.49	6.69	0.25	3.83	1.72	-3.86	2.12	1.13	0.11	0.10	-0.69	-3.11	-1.54	4.21	**27.1**
4357	2914	2,4,3,6,10,16,18,19,22,25,29,36,38,40,42,46,48,52,53,54	2.61	0.40	4.24	-0.78	0.98	-0.60	1.68	-6.58	-2.97	-3.45	0.81	0.11	6.23	22.04	-0.33	-1.54	4.21	**27.1**
4358	2389	1,6,9,11,17,19,22,25,29,36,35,37,40,43,47,46,48,51	3.72	0.40	7.99	2.60	-6.60	2.82	3.83	-3.40	-3.64	-3.65	1.32	2.02	11.74	9.19	2.45	-1.54	-2.17	**27.1**
4359	3150	2,4,3,6,8,14,32,46,49,53,54	4.30	-1.15	15.15	-2.12	2.48	-0.60	7.41	-6.85	-8.31	3.88	1.02	2.02	13.76	-4.97	-0.33	-1.54	2.94	**27.1**
4360	2269	1,6,9,11,17,18,20,23,26,30,32,46,47,50,54	3.09	0.66	1.60	-1.86	0.95	2.82	3.83	-0.98	9.11	-0.95	0.96	-1.80	6.63	-4.64	2.45	2.28	2.94	**27.1**
4361	327	1,3,7,11,13,16,20,23,27,28,31,30,32,48,51	1.35	-0.12	7.05	-4.79	-6.27	2.82	5.26	3.12	4.70	-0.21	0.27	-1.80	10.34	2.94	1.06	-1.54	2.94	**27.1**
4362	4268	2,4,7,11,17,19,22,25,29,39,41,43,47,46,48,52,53,54	2.82	-0.12	11.38	-0.91	-6.55	-3.18	5.98	2.28	-2.96	4.30	-0.49	0.11	10.82	10.51	-3.11	-1.54	-2.17	**27.2**
4363	3620	2,4,3,6,9,11,17,19,22,24,29,36,38,40,42,46,48,52,53,54	3.29	1.18	5.38	3.10	-1.70	-0.60	2.40	-1.71	-0.11	-4.16	1.30	0.11	7.53	8.86	-0.33	-1.54	4.21	**27.2**
4364	414	1,3,7,11,17,18,20,23,27,28,31,30,32,46,49,53,54	2.88	0.40	1.08	-2.03	2.05	1.11	3.83	5.91	5.69	0.42	0.75	0.11	5.88	-3.32	1.06	-1.54	2.94	**27.2**
4365	146	1,3,7,11,13,16,18,19,22,24,29,36,38,40,42,49,53,54	0.36	0.66	-1.51	-3.06	3.71	0.25	-0.47	5.57	0.71	-3.65	0.12	0.11	4.24	16.44	1.06	-1.54	4.21	**27.2**
4366	1135	1,3,7,9,10,16,20,23,26,31,34,36,39,41,40,42,46,48,51	3.32	0.40	6.33	6.33	-5.88	-0.60	0.96	1.12	-0.48	6.45	-0.02	2.02	3.84	2.28	1.06	2.28	-2.17	**27.2**
4367	4245	2,4,7,11,17,19,22,25,29,36,35,37,40,43,47,46,48,51	3.47	0.40	7.87	2.89	-6.15	1.97	4.55	1.00	-3.33	-3.70	1.16	2.02	11.43	10.51	-3.11	-1.54	-2.17	**27.3**
4368	353	1,3,7,11,13,16,20,23,27,28,34,36,39,41,43,47,46,48,51	3.07	0.14	6.41	8.78	-4.20	-0.60	1.68	6.08	-0.82	8.43	-0.24	2.02	3.49	-4.31	1.06	-1.54	-2.17	**27.3**
4369	3021	2,4,3,6,10,16,20,23,26,30,32,46,47,50,54	2.99	0.66	0.83	-2.75	2.48	1.97	2.40	-6.33	8.01	-0.63	0.83	-1.80	5.56	8.20	-0.33	2.28	2.94	**27.3**
4370	4125	2,4,7,11,17,18,20,23,26,30,32,46,47,50,54	2.83	0.66	1.48	-1.56	1.40	1.97	4.55	3.43	9.43	-1.01	0.81	-1.80	6.32	-3.32	-3.11	2.28	2.94	**27.3**
4371	1682	1,6,10,16,18,21,27,26,30,32,46,49,53,54	2.94	0.40	1.90	-5.07	2.00	2.82	3.11	-6.61	3.54	-4.09	1.42	0.11	7.96	9.19	2.45	2.28	2.94	**27.3**
4372	185	1,3,7,11,13,16,18,19,22,25,29,39,41,40,42,47,50,54	0.45	0.40	4.84	-6.68	-1.16	-0.60	3.11	2.68	-0.14	5.46	-1.70	-1.80	8.34	16.77	1.06	-1.54	-2.17	**27.3**
4373	3124	2,4,3,6,8,14,30,31,34,36,39,41,43,47,46,48,52,53,54	6.43	-0.38	19.73	6.55	-2.54	-2.32	6.70	-5.98	-14.33	12.04	0.69	2.02	13.06	-10.24	-0.33	-1.54	-2.17	**27.4**
4374	1868	1,6,8,14,30,31,34,36,39,41,40,42,46,48,52,53,54	6.25	-1.67	19.63	5.33	-3.26	-1.46	6.70	-5.58	-14.33	11.81	0.67	2.02	12.80	-10.24	2.45	-1.54	-2.17	**27.4**
4375	3462	2,4,3,6,9,11,13,16,20,23,26,31,34,38,41,45,55	2.60	0.92	0.95	4.20	5.37	1.11	-1.19	4.07	9.28	0.30	0.82	-1.80	0.28	-5.63	-0.33	2.28	4.21	**27.5**
4376	5198	2,5,19,21,27,26,33,37,42,46,48,52,53,54	0.87	0.14	8.36	-3.65	-12.59	1.97	-0.47	-1.44	3.68	3.72	-0.61	5.84	9.00	5.24	-0.33	6.10	1.66	**27.5**
4377	4833	2,4,7,9,10,16,18,21,28,31,30,32,46,47,50,54	2.93	1.18	1.61	-4.38	3.62	3.68	4.55	-4.29	4.79	-1.91	0.91	-1.80	7.81	10.51	-3.11	-1.54	2.94	**27.5**
4378	885	1,3,7,9,10,15,23,26,30,32,46,47,50,54	2.97	1.18	2.52	-7.40	0.81	2.82	3.11	-0.84	7.43	-0.74	0.56	-1.80	8.35	2.28	1.06	2.28	2.94	**27.5**
4379	2924	2,4,3,6,10,16,18,19,22,25,29,39,41,40,42,46,48,52,53,54	3.21	0.14	10.90	-2.49	-5.69	-3.18	3.83	-7.48	-4.38	4.47	-0.45	0.11	10.53	22.04	-0.33	-1.54	-2.17	**27.5**
4380	1933	1,6,9,11,13,12,14,30,33,37,40,43,47,46,48,51	4.11	-1.67	8.00	14.09	-1.38	3.68	5.26	0.09	-6.08	1.91	1.73	2.02	5.65	-8.59	2.45	-1.54	-2.17	**27.5**
4381	2258	1,6,9,11,13,16,20,23,27,28,34,36,39,45,55	1.50	-0.38	6.02	4.94	-0.79	1.11	-1.91	3.58	6.45	14.11	-1.23	-1.80	2.84	-5.63	2.45	-1.54	-2.17	**27.6**
4382	4504	2,4,7,9,10,13,17,19,22,24,29,36,38,40,42,46,48,52,53,54	3.13	1.18	4.72	1.06	-1.97	-0.60	2.40	-1.87	-0.87	-3.95	1.10	0.11	6.82	16.77	-3.11	-1.54	4.21	**27.6**
4383	3630	2,4,3,6,9,11,17,19,22,24,29,39,41,40,42,46,48,52,53,54	3.89	0.92	12.04	1.39	-8.38	-3.18	4.55	-2.61	-1.52	3.77	0.03	0.11	11.84	8.86	-0.33	-1.54	-2.17	**27.7**
4384	156	1,3,7,11,13,16,18,19,22,24,29,39,41,40,42,49,53,54	0.97	0.40	5.15	-4.78	-2.96	-2.32	1.68	4.68	-0.71	4.28	-1.15	0.11	8.54	16.44	1.06	-1.54	-2.17	**27.7**
4385	2920	2,4,3,6,10,16,18,19,22,25,29,36,38,43,47,46,48,52,53,54	2.62	0.14	4.26	-0.38	1.20	-0.60	1.68	-6.58	-2.97	-3.26	0.82	0.11	6.26	22.04	-0.33	-1.54	4.21	**27.7**
4386	2036	1,6,9,11,13,16,18,19,22,24,29,36,35,37,40,43,47,46,48,52,53,54	3.62	1.18	5.77	3.03	-4.12	1.11	1.68	-2.78	-1.40	-4.06	1.41	0.11	8.30	15.12	2.45	-1.54	-2.17	**27.7**
4387	5208	2,5,19,21,28,31,33,37,40,43,47,46,48,52,53,54	1.05	0.92	8.10	-3.12	-11.34	3.68	-0.47	-1.44	2.27	5.38	-0.83	5.84	8.82	5.24	-0.33	2.28	1.66	**27.7**
4388	1296	1,6,10,12,14,32,48,52,53,54	2.07	-2.71	11.86	-1.95	-2.49	1.97	7.41	-6.54	-0.09	5.16	-0.30	-3.71	9.96	3.26	2.45	-1.54	2.94	**27.7**
4389	5190	2,5,19,21,27,26,31,34,38,43,50,54	-1.89	0.66	1.53	-9.39	-3.06	2.82	-3.34	0.03	9.01	4.77	-1.94	3.93	5.55	5.24	-0.33	6.10	8.05	**27.7**
4390	3789	2,4,7,11,13,12,14,30,33,37,40,43,47,46,48,51	3.85	-1.67	7.88	14.38	-0.94	2.82	5.98	4.50	-5.77	1.86	1.58	2.02	5.34	-7.27	-3.11	-1.54	-2.17	**27.7**
4391	4114	2,4,7,11,13,16,20,23,27,28,34,36,39,45,55	1.25	-0.38	5.90	5.24	-0.34	0.25	-1.19	7.98	6.77	14.06	-1.38	-1.80	2.53	-4.31	-3.11	-1.54	-2.17	**27.8**
4392	493	1,3,7,11,17,19,22,25,29,36,35,37,42,46,48,51	3.14	-0.38	7.66	2.15	-6.61	1.11	4.55	1.40	-3.33	-3.93	1.16	2.02	10.94	10.51	1.06	-1.54	-2.17	**27.8**
4393	4765	2,4,7,9,10,16,18,19,22,25,29,36,35,37,42,46,48,51	3.37	0.14	7.13	0.78	-5.35	0.25	3.11	-3.96	-4.41	-3.61	1.07	2.02	10.66	23.35	-3.11	-1.54	-2.17	**27.8**
4394	3478	2,4,3,6,9,11,13,16,20,23,27,28,31,30,32,46,49,53,54	3.22	1.44	1.19	-0.96	3.79	0.25	2.40	0.71	5.37	0.53	0.90	0.11	6.12	1.62	-0.33	-1.54	2.94	**27.8**
4395	1704	1,6,10,16,18,21,27,26,31,34,36,39,45,55	1.69	0.14	7.02	1.65	-2.07	2.82	-1.19	-4.14	4.62	9.67	-0.62	-1.80	5.49	1.95	2.45	2.28	-2.17	**27.8**
4396	3626	2,4,3,6,9,11,17,19,22,24,29,36,38,43,47,46,48,52,53,54	3.29	0.92	5.40	3.50	-1.48	-0.60	2.40	-1.71	-0.11	-3.96	1.30	0.11	7.57	8.86	-0.33	-1.54	4.21	**27.8**
4397	2111	1,6,9,11,13,16,18,21,27,26,31,34,36,39,41,43,47,46,48,51	3.70	1.70	8.28	7.46	-5.27	1.11	2.40	-1.49	-1.86	3.78	0.66	2.02	7.45	-4.64	2.45	2.28	-2.17	**27.8**
4398	2047	1,6,9,11,13,16,18,19,22,24,29,36,38,41,44,55	2.09	-0.12	4.52	-4.17	2.87	-0.60	-1.19	-2.02	1.70	-3.26	0.52	-1.80	9.09	15.12	2.45	-1.54	4.21	**27.9**
4399	3892	2,4,7,11,13,16,18,19,22,24,29,36,35,37,40,43,47,46,48,52,53,54	3.36	1.18	5.65	3.33	-3.67	0.25	2.40	1.62	-1.08	-4.12	1.26	0.11	7.99	16.44	-3.11	-1.54	-2.17	**27.9**
4400	1035	1,3,7,9,10,16,18,21,27,26,30,32,48,51	1.59	0.92	8.09	-8.08	-7.55	4.54	5.98	-4.60	2.89	-4.80	0.86	-1.80	13.08	10.51	1.06	2.28	2.94	**27.9**

Westar Energy- JEC to East Manhattan
345/230 kV Transmission Line Project
Table F-3: Weighted, Sorted Z-scores for All Routes

		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
4401	3174	2,4,3,6,9,11,13,12,14,30,31,34,38,40,42,46,48,52,53,54	3.22	-0.90	5.19	12.54	6.96	0.25	3.83	1.87	-3.09	1.71	1.40	0.11	1.10	-8.59	-0.33	-1.54	4.21	**28.0**
4402	89	1,3,7,11,13,15,23,27,28,31,30,32,46,47,50,54	3.00	0.92	2.79	-5.35	2.27	2.82	3.83	4.11	7.09	1.18	0.41	-1.80	8.55	-4.31	1.06	-1.54	2.94	**28.0**
4403	46	1,3,7,11,13,15,23,26,30,32,46,49,53,54	2.76	0.66	2.96	-5.74	1.10	1.11	3.11	6.20	6.18	-1.80	0.83	0.11	8.54	-4.31	1.06	2.28	2.94	**28.0**
4404	2138	1,6,9,11,13,16,18,21,28,31,30,32,46,49,53,54	2.98	0.92	2.17	-3.02	3.46	2.82	3.83	-1.65	3.23	-2.91	1.33	0.11	8.30	2.61	2.45	-1.54	2.94	**28.0**
4405	3967	2,4,7,11,13,16,18,21,27,26,31,34,36,39,41,43,47,46,48,51	3.44	1.70	8.16	7.75	-4.82	0.25	3.11	2.91	-1.55	3.73	0.51	2.02	7.14	-3.32	-3.11	2.28	-2.17	**28.0**
4406	4514	2,4,7,9,10,13,17,19,22,24,29,39,41,40,42,46,48,52,53,54	3.74	0.92	11.38	-0.66	-8.64	-3.18	4.55	-2.76	-2.28	3.97	-0.17	0.11	11.13	16.77	-3.11	-1.54	-2.17	**28.1**
4407	3903	2,4,7,11,13,16,18,19,22,24,29,36,38,41,44,55	1.83	-0.12	4.40	-3.87	3.31	-1.46	-0.47	2.38	2.01	-3.31	0.37	-1.80	8.78	16.44	-3.11	-1.54	4.21	**28.1**
4408	1270	1,6,10,12,14,30,31,34,36,39,41,43,50,54	3.59	-1.67	6.21	5.53	3.50	0.25	3.11	-3.58	-2.79	14.83	-1.15	-1.80	5.31	-2.01	2.45	-1.54	-2.17	**28.1**
4409	151	1,3,7,11,13,16,18,19,22,24,29,36,38,43,47,49,53,54	0.37	0.66	-1.50	-2.66	3.93	0.25	-0.47	5.57	0.71	-3.45	0.12	0.11	4.27	16.44	1.06	-1.54	4.21	**28.1**
4410	1888	1,6,8,14,30,33,37,40,41,45,55	6.30	-2.19	16.43	2.38	-0.80	3.68	5.98	-4.55	-8.32	5.87	1.61	0.11	13.12	-10.24	2.45	-1.54	-2.17	**28.1**
4411	1627	1,6,10,16,18,19,22,24,29,36,35,37,42,46,48,51	3.94	-0.64	7.48	2.65	-7.46	1.11	1.68	-8.45	-3.00	-3.97	1.53	2.02	10.82	21.71	2.45	-1.54	-2.17	**28.1**
4412	1662	1,6,10,16,18,19,22,25,29,36,38,40,42,46,48,52,53,54	2.44	-0.64	4.15	-1.60	0.48	0.25	1.68	-6.18	-2.97	-3.48	0.80	0.11	6.00	22.04	2.45	-1.54	4.21	**28.2**
4413	4510	2,4,7,9,10,13,17,19,22,24,29,36,38,43,47,46,48,52,53,54	3.14	0.92	4.74	1.46	-1.75	-0.60	2.40	-1.87	-0.87	-3.76	1.10	0.11	6.86	16.77	-3.11	-1.54	4.21	**28.2**
4414	1898	1,6,8,14,32,46,49,53,54	4.12	-2.19	15.06	-2.95	1.98	0.25	7.41	-6.45	-8.31	3.85	1.01	2.02	13.54	-4.97	2.45	-1.54	2.94	**28.2**
4415	3994	2,4,7,11,13,16,18,21,28,31,30,32,46,49,53,54	2.73	0.92	2.05	-2.72	3.91	1.97	4.55	2.75	3.54	-2.97	1.18	0.11	7.99	3.92	-3.11	-1.54	2.94	**28.2**
4416	37	1,3,7,11,13,12,14,30,33,37,42,46,48,51	3.52	-2.45	7.68	13.65	-1.39	1.97	5.98	4.90	-5.77	1.63	1.58	2.02	4.86	-7.27	1.06	-1.54	-2.17	**28.2**
4417	1251	1,3,7,9,8,14,32,48,51	2.77	-2.19	21.26	-5.96	-7.58	1.97	10.28	-4.44	-8.96	3.14	0.45	0.11	18.66	-3.65	1.06	-1.54	2.94	**28.3**
4418	2368	1,6,9,11,17,19,22,24,29,36,38,40,42,46,48,52,53,54	3.11	0.14	5.30	2.28	-2.21	0.25	2.40	-1.31	-0.11	-4.19	1.29	0.11	7.31	8.86	2.45	-1.54	4.21	**28.3**
4419	1139	1,3,7,9,10,16,20,23,26,31,34,36,39,41,43,47,46,48,51	3.32	0.66	6.34	6.73	-5.66	-0.60	0.96	1.12	-0.48	6.65	-0.01	2.02	3.87	2.28	1.06	2.28	-2.17	**28.4**
4420	4921	2,4,7,9,10,16,20,23,27,28,31,30,32,46,47,50,54	2.99	0.66	0.54	-3.14	3.45	1.97	3.11	-1.53	6.94	1.50	0.47	-1.80	5.40	9.52	-3.11	-1.54	2.94	**28.4**
4421	4878	2,4,7,9,10,16,20,23,26,30,32,46,49,53,54	2.76	0.40	0.71	-3.54	2.28	0.25	2.40	0.56	6.03	-1.48	0.89	0.11	5.39	9.52	-3.11	2.28	2.94	**28.4**
4422	140	1,3,7,11,13,16,18,19,22,24,29,36,35,37,42,46,48,52,53,54	3.03	0.40	5.44	2.59	-4.13	-0.60	2.40	2.02	-1.08	-4.34	1.26	0.11	7.51	16.44	1.06	-1.54	-2.17	**28.4**
4423	4363	2,4,7,9,10,12,14,30,31,34,35,37,40,43,47,46,48,51	4.12	-0.64	7.54	12.58	0.42	2.82	4.55	-0.46	-5.64	2.05	1.52	2.02	5.02	-0.69	-3.11	-1.54	-2.17	**28.4**
4424	798	1,3,7,9,10,13,17,21,27,26,30,32,46,49,53,54	3.07	1.44	2.09	-4.92	0.98	2.82	4.55	-1.81	3.88	-4.17	1.39	0.11	8.44	4.25	1.06	2.28	2.94	**28.4**
4425	1769	1,6,10,16,20,23,26,30,32,46,47,50,54	2.81	-0.38	0.74	-3.58	1.97	2.82	2.40	-5.93	8.01	-0.66	0.81	-1.80	5.34	8.20	2.45	2.28	2.94	**28.4**
4426	68	1,3,7,11,13,15,23,26,31,34,36,39,45,55	1.50	0.40	8.09	0.98	-2.98	1.11	-1.19	8.67	7.26	11.96	-1.21	-1.80	6.06	-11.56	1.06	2.28	-2.17	**28.5**
4427	5110	2,5,19,18,21,27,26,33,37,42,46,48,52,53,54	1.00	0.66	8.45	-3.65	-12.59	1.97	-0.47	-1.44	3.68	3.72	-0.60	5.84	9.25	5.24	-0.33	6.10	1.66	**28.5**
4428	1872	1,6,8,14,30,31,34,36,39,41,43,47,46,48,52,53,54	6.25	-1.41	19.65	5.73	-3.04	-1.46	6.70	-5.58	-14.33	12.01	0.67	2.02	12.83	-10.24	2.45	-1.54	-2.17	**28.5**
4429	4224	2,4,7,11,17,19,22,24,29,36,38,40,42,46,48,52,53,54	2.85	0.14	5.18	2.58	-1.76	-0.60	3.11	3.09	0.21	-4.24	1.13	0.11	7.00	10.18	-3.11	-1.54	4.21	**28.5**
4430	3180	2,4,3,6,9,11,13,12,14,30,31,34,38,43,47,46,48,52,53,54	3.23	-1.15	5.20	12.93	7.18	0.25	3.83	1.87	-3.09	1.91	1.41	0.11	1.14	-8.59	-0.33	-1.54	4.21	**28.6**
4431	2210	1,6,9,11,13,16,20,23,26,31,34,38,41,45,55	2.43	-0.12	0.86	3.37	4.86	1.97	-1.19	4.47	9.28	0.27	0.81	-1.80	0.06	-5.63	2.45	2.28	4.21	**28.6**
4432	2928	2,4,3,6,10,16,18,19,22,25,29,39,41,43,47,46,48,52,53,54	3.22	0.40	10.92	-2.10	-5.48	-3.18	3.83	-7.48	-4.38	4.67	-0.45	0.11	10.57	22.04	-0.33	-1.54	-2.17	**28.7**
4433	1672	1,6,10,16,18,19,22,25,29,39,41,40,42,46,48,52,53,54	3.04	-0.90	10.81	-3.32	-6.20	-2.32	3.83	-7.08	-4.38	4.45	-0.47	0.11	10.31	22.04	2.45	-1.54	-2.17	**28.7**
4434	276	1,3,7,11,13,16,18,21,28,34,38,41,45,55	2.00	-0.12	1.38	2.23	6.27	3.68	0.96	6.52	6.04	-1.16	0.80	-1.80	1.45	-3.32	1.06	-1.54	4.21	**28.7**
4435	5120	2,5,19,18,21,28,31,33,37,40,43,47,46,48,52,53,54	1.17	1.44	8.19	-3.12	-11.34	3.68	-0.47	-1.44	2.27	5.38	-0.82	5.84	9.07	5.24	-0.33	2.28	1.66	**28.7**
4436	1110	1,3,7,9,10,16,18,21,28,34,36,39,45,55	1.33	0.14	6.47	1.74	-0.83	2.82	-0.47	0.66	3.55	10.90	-1.01	-1.80	4.61	3.26	1.06	-1.54	-2.17	**28.7**
4437	1047	1,3,7,9,10,16,18,21,27,26,31,34,36,39,41,40,42,46,48,51	3.58	1.44	7.64	5.09	-5.71	1.11	2.40	-1.64	-2.63	3.79	0.43	2.02	6.78	3.26	1.06	2.28	-2.17	**28.7**
4438	5102	2,5,19,18,21,27,26,31,34,38,43,50,54	-1.77	1.18	1.62	-9.39	-3.06	2.82	-3.34	0.03	9.01	4.77	-1.92	3.93	5.81	5.24	-0.33	6.10	8.05	**28.7**
4439	2905	2,4,3,6,10,16,18,19,22,25,29,36,35,37,40,43,47,46,48,51	3.87	0.92	7.40	1.71	-5.07	1.97	2.40	-8.76	-4.75	-3.33	1.21	2.02	11.18	22.04	-0.33	-1.54	-2.17	**28.8**
4440	2518	2,4,3,6,10,12,14,30,31,34,36,39,41,40,42,49,53,54	4.06	-0.64	6.44	6.55	4.11	-0.60	2.40	-1.90	-5.11	14.40	-0.90	0.11	5.89	-2.01	-0.33	-1.54	-2.17	**28.8**
4441	4066	2,4,7,11,13,16,20,23,26,31,34,38,41,45,55	2.17	-0.12	0.74	3.67	5.31	1.11	-0.47	8.88	9.60	0.22	0.66	-1.80	-0.25	-4.31	-3.11	2.28	4.21	**28.8**
4442	2933	2,4,3,6,10,16,18,21,27,26,30,32,46,47,50,54	3.25	1.70	2.14	-3.99	2.65	3.68	3.83	-9.09	5.86	-3.29	1.27	-1.80	8.51	9.19	-0.33	2.28	2.94	**28.8**
4443	3634	2,4,3,6,9,11,17,19,22,24,29,39,41,43,47,46,48,52,53,54	3.89	1.18	12.06	1.78	-8.16	-3.18	4.55	-2.61	-1.52	3.96	0.04	0.11	11.88	8.86	-0.33	-1.54	-2.17	**28.8**
4444	2378	1,6,9,11,17,19,22,24,29,39,41,40,42,46,48,52,53,54	3.71	-0.12	11.96	0.56	-8.88	-2.32	4.55	-2.21	-1.52	3.74	0.02	0.11	11.62	8.86	2.45	-1.54	-2.17	**28.8**
4445	1668	1,6,10,16,18,19,22,25,29,36,38,43,47,46,48,52,53,54	2.44	-0.90	4.17	-1.20	0.70	0.25	1.68	-6.18	-2.97	-3.29	0.81	0.11	6.04	22.04	2.45	-1.54	4.21	**28.8**
4446	4900	2,4,7,9,10,16,20,23,26,31,34,36,39,45,55	1.50	0.14	5.83	3.18	-1.80	0.25	-1.91	3.02	7.11	12.28	-1.16	-1.80	2.91	2.28	-3.11	2.28	-2.17	**28.8**
4447	19	1,3,7,11,13,12,14,30,31,34,36,39,44,55	0.86	-2.45	9.82	6.45	3.61	-0.60	0.96	5.47	-2.39	14.31	-1.24	-1.80	5.80	-7.27	1.06	-1.54	-2.17	**28.9**
4448	611	1,3,7,9,10,12,14,30,31,34,35,37,42,46,48,51	3.79	-1.41	7.33	11.84	-0.04	1.97	4.55	-0.06	-5.64	1.82	1.52	2.02	4.54	-0.69	1.06	-1.54	-2.17	**28.9**
4449	820	1,3,7,9,10,13,17,21,27,26,31,34,36,39,45,55	1.81	1.18	7.21	1.80	-3.09	2.82	0.25	0.66	4.96	9.59	-0.65	-1.80	5.97	-2.99	1.06	2.28	-2.17	**28.9**
4450	3611	2,4,3,6,9,11,17,19,22,24,29,36,35,37,40,43,47,46,48,51	4.54	1.70	8.54	5.59	-7.76	1.97	3.11	-3.89	-1.89	-4.03	1.69	2.02	12.49	8.86	-0.33	-1.54	-2.17	**28.9**
4451	2226	1,6,9,11,13,16,20,23,27,28,31,30,32,46,49,53,54	3.04	0.40	1.10	-1.78	3.29	1.11	2.40	1.11	5.37	0.50	0.89	0.11	5.90	1.62	2.45	-1.54	2.94	**28.9**
4452	693	1,3,7,9,10,13,17,18,20,23,27,28,31,30,32,46,47,50,54	3.29	1.70	0.79	-3.28	1.98	2.82	3.83	-1.13	6.94	1.47	0.55	-1.80	6.03	3.26	1.06	-1.54	2.94	**28.9**
4453	650	1,3,7,9,10,13,17,18,20,23,26,30,32,46,49,53,54	3.05	1.44	0.96	-3.68	0.81	1.11	3.11	0.95	6.03	-1.51	0.97	0.11	6.01	3.26	1.06	2.28	2.94	**28.9**
4454	2374	1,6,9,11,17,19,22,24,29,36,38,43,47,46,48,52,53,54	3.12	-0.12	5.31	2.68	-1.99	0.25	2.40	-1.31	-0.11	-3.99	1.29	0.11	7.34	8.86	2.45	-1.54	4.21	**29.0**
4455	3374	2,4,3,6,9,11,13,16,18,21,27,26,31,34,38,41,45,55	2.87	1.96	2.26	2.96	5.54	2.82	0.25	1.31	7.14	-2.36	1.27	-1.80	3.22	-4.64	-0.33	2.28	4.21	**29.0**

Westar Energy- JEC to East Manhattan
345/230 kV Transmission Line Project
Table F-3: Weighted, Sorted Z-scores for All Routes

Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
4456	4234	2,4,7,11,17,19,22,24,29,39,41,40,42,46,48,52,53,54	3.46	-0.12	11.84	0.86	-8.43	-3.18	5.26	2.19	-1.20	3.68	-0.13	0.11	11.31	10.18	-3.11	-1.54	-2.17	**29.0**
4457	159	1,3,7,11,13,16,18,19,22,24,29,39,41,43,47,49,53,54	0.97	0.92	5.16	-4.38	-2.74	-2.32	1.68	4.68	-0.71	4.48	-1.15	0.11	8.58	16.44	1.06	-1.54	-2.17	**29.1**
4458	4082	2,4,7,11,13,16,20,23,27,28,31,30,32,46,49,53,54	2.79	0.40	0.98	-1.48	3.74	0.25	3.11	5.51	5.69	0.45	0.74	0.11	5.59	2.94	-3.11	-1.54	2.94	**29.1**
4459	1922	1,6,9,11,13,12,14,30,31,34,38,40,42,46,48,52,53,54	3.04	-1.93	5.10	11.71	6.46	1.11	3.83	2.27	-3.09	1.68	1.39	0.11	0.88	-8.59	2.45	-1.54	4.21	**29.1**
4460	4230	2,4,7,11,17,19,22,24,29,36,38,43,47,46,48,52,53,54	2.86	-0.12	5.19	2.97	-1.54	-0.60	3.11	3.09	0.21	-4.05	1.14	0.11	7.03	10.18	-3.11	-1.54	4.21	**29.2**
4461	4518	2,4,7,9,10,13,17,19,22,24,29,39,41,43,47,46,48,52,53,54	3.74	1.18	11.40	-0.26	-8.42	-3.18	4.55	-2.76	-2.28	4.17	-0.17	0.11	11.17	16.77	-3.11	-1.54	-2.17	**29.2**
4462	4495	2,4,7,9,10,13,17,19,22,24,29,36,35,37,40,43,47,46,48,51	4.39	1.70	7.88	3.54	-8.02	1.97	3.11	-4.05	-2.65	-3.83	1.49	2.02	11.78	16.77	-3.11	-1.54	-2.17	**29.3**
4463	3778	2,4,7,11,13,12,14,30,31,34,38,40,42,46,48,52,53,54	2.79	-1.93	4.98	12.01	6.91	0.25	4.55	6.68	-2.78	1.63	1.24	0.11	0.57	-7.27	-3.11	-1.54	4.21	**29.3**
4464	5239	2,5,19,21,28,34,38,41,44,55	-0.56	-0.64	6.91	-10.21	-2.57	1.97	-4.06	-0.68	6.57	5.94	-1.75	3.93	9.20	5.24	-0.33	2.28	8.05	**29.3**
4465	518	1,3,7,11,17,21,27,26,30,32,46,49,53,54	2.79	0.40	2.54	-3.40	1.19	2.82	5.26	3.15	4.96	-4.46	1.42	0.11	8.61	-2.33	1.06	2.28	2.94	**29.3**
4466	5218	2,5,19,21,28,34,35,37,40,43,47,46,48,52,53,54	0.97	0.92	8.15	-3.01	-9.55	3.68	-1.19	-1.44	3.47	5.13	-0.86	5.84	8.42	5.24	-0.33	2.28	1.66	**29.4**
4467	672	1,3,7,9,10,13,17,18,20,23,26,31,34,36,39,45,55	1.79	1.18	6.08	3.04	-3.26	1.11	-1.19	3.42	7.11	12.25	-1.07	-1.80	3.54	-3.98	1.06	2.28	-2.17	**29.4**
4468	4976	2,4,7,9,8,14,30,31,34,36,39,41,40,42,46,48,52,53,54	6.32	-1.15	19.75	5.63	-2.81	-2.32	7.41	-1.17	-13.99	11.76	0.58	2.02	13.16	-8.92	-3.11	-1.54	-2.17	**29.4**
4469	364	1,3,7,11,13,16,20,23,27,28,34,38,41,45,55	2.06	-0.64	0.31	3.46	6.10	1.97	-0.47	9.28	8.18	2.26	0.36	-1.80	-0.96	-4.31	1.06	-1.54	4.21	**29.5**
4470	3389	2,4,3,6,9,11,13,16,18,21,28,31,30,32,46,47,50,54	3.29	2.22	2.42	-1.94	4.11	3.68	4.55	-4.14	5.55	-2.12	1.19	-1.80	8.85	2.61	-0.33	-1.54	2.94	**29.5**
4471	1198	1,3,7,9,10,16,20,23,27,28,34,36,39,45,55	1.39	-0.38	5.39	2.98	-1.01	1.11	-1.91	3.42	5.69	14.32	-1.46	-1.80	2.21	2.28	1.06	-1.54	-2.17	**29.6**
4472	1928	1,6,9,11,13,12,14,30,31,34,38,43,47,46,48,52,53,54	3.05	-2.19	5.12	12.11	6.68	1.11	3.83	2.27	-3.09	1.88	1.40	0.11	0.91	-8.59	2.45	-1.54	4.21	**29.7**
4473	3149	2,4,3,6,8,14,32,46,47,50,54	4.43	-0.90	15.31	-1.87	2.62	1.11	8.13	-8.93	-5.99	4.64	0.86	0.11	14.08	-4.97	-0.33	-1.54	2.94	**29.7**
4474	976	1,3,7,9,10,16,18,19,22,24,29,36,35,37,40,43,47,46,48,52,53,54	3.50	1.18	5.13	1.07	-4.34	1.11	1.68	-2.94	-2.16	-3.86	1.19	0.11	7.67	23.02	1.06	-1.54	-2.17	**29.7**
4475	283	1,3,7,11,13,16,20,23,26,30,32,48,51	1.25	-0.12	7.38	-4.92	-7.29	2.82	5.26	3.12	6.12	-2.42	0.52	-1.80	10.64	2.94	1.06	2.28	2.94	**29.8**
4476	743	1,3,7,9,10,13,17,19,22,24,29,36,35,37,42,46,48,51	4.06	0.92	7.67	2.81	-8.48	1.11	3.11	-3.65	-2.65	-4.05	1.49	2.02	11.30	16.77	1.06	-1.54	-2.17	**29.8**
4477	3321	2,4,3,6,9,11,13,16,18,19,22,25,29,36,35,37,42,46,48,51	3.73	1.18	7.94	3.23	-4.86	0.25	3.11	-3.80	-3.64	-3.81	1.34	2.02	11.70	15.45	-0.33	-1.54	-2.17	**29.8**
4478	1676	1,6,10,16,18,19,22,25,29,39,41,43,47,46,48,52,53,54	3.04	-0.64	10.83	-2.92	-5.98	-2.32	3.83	-7.08	-4.38	4.64	-0.46	0.11	10.35	22.04	2.45	-1.54	-2.17	**29.8**
4479	540	1,3,7,11,17,21,27,26,31,34,36,39,45,55	1.53	0.14	7.66	3.32	-2.88	2.82	0.96	5.62	6.04	9.30	-0.62	-1.80	6.14	-9.58	1.06	2.28	-2.17	**29.8**
4480	778	1,3,7,9,10,13,17,19,22,25,29,36,38,40,42,46,48,52,53,54	2.56	0.92	4.35	-1.45	-0.54	0.25	3.11	-1.38	-2.62	-3.57	0.77	0.11	6.48	17.10	1.06	-1.54	4.21	**29.8**
4481	145	1,3,7,11,13,16,18,19,22,24,29,36,38,40,42,47,50,54	0.50	0.92	-1.36	-2.80	3.86	1.97	0.25	3.49	3.03	-2.88	-0.07	-1.80	4.56	16.44	1.06	-1.54	4.21	**29.8**
4482	413	1,3,7,11,17,18,20,23,27,28,31,30,32,46,47,50,54	3.01	0.66	1.24	-1.77	2.19	2.82	4.55	3.83	8.01	1.18	0.59	-1.80	6.20	-3.32	1.06	-1.54	2.94	**29.8**
4483	370	1,3,7,11,17,18,20,23,26,30,32,46,49,53,54	2.77	0.40	1.41	-2.16	1.02	1.11	3.83	5.91	7.10	-1.80	1.01	0.11	6.18	-3.32	1.06	2.28	2.94	**29.8**
4484	1051	1,3,7,9,10,16,18,21,27,26,31,34,36,39,41,43,47,46,48,51	3.59	1.70	7.65	5.49	-5.49	1.11	2.40	-1.64	-2.63	3.99	0.44	2.02	6.82	3.26	1.06	2.28	-2.17	**29.9**
4485	4790	2,4,7,9,10,16,18,21,27,26,30,32,46,49,53,54	3.02	1.44	2.02	-4.77	2.45	1.97	3.83	-2.21	3.88	-4.14	1.33	0.11	8.33	10.51	-3.11	2.28	2.94	**29.9**
4486	987	1,3,7,9,10,16,18,19,22,24,29,36,38,41,44,55	1.97	-0.12	3.89	-6.13	2.65	-0.60	-1.19	-2.18	0.93	-3.05	0.30	-1.80	8.45	23.02	1.06	-1.54	4.21	**29.9**
4487	1653	1,6,10,16,18,19,22,25,29,36,35,37,40,43,47,46,48,51	3.69	-0.12	7.31	0.88	-5.58	2.82	2.40	-8.36	-4.75	-3.36	1.20	2.02	10.96	22.04	2.45	-1.54	-2.17	**29.9**
4488	1266	1,6,10,12,14,30,31,34,36,39,41,40,42,49,53,54	3.88	-1.67	6.35	5.73	3.61	0.25	2.40	-1.50	-5.11	14.37	-0.91	0.11	5.67	-2.01	2.45	-1.54	-2.17	**29.9**
4489	3784	2,4,7,11,13,12,14,30,31,34,38,43,47,46,48,52,53,54	2.79	-2.19	5.00	12.41	7.13	0.25	4.55	6.68	-2.78	1.83	1.24	0.11	0.60	-7.27	-3.11	-1.54	4.21	**29.9**
4490	3155	2,4,3,6,9,11,13,12,14,30,31,34,35,37,40,43,47,46,48,51	4.48	-0.12	8.35	15.02	0.91	2.82	4.55	-0.31	-4.87	1.84	1.80	2.02	6.06	-8.59	-0.33	-1.54	-2.17	**29.9**
4491	1681	1,6,10,16,18,21,27,26,30,32,46,47,50,54	3.07	0.66	2.05	-4.81	2.14	4.54	3.83	-8.69	5.86	-3.32	1.26	-1.80	8.28	9.19	2.45	2.28	2.94	**29.9**
4492	2382	1,6,9,11,17,19,22,24,29,39,41,43,47,46,48,52,53,54	3.72	0.14	11.97	0.96	-8.66	-2.32	4.55	-2.21	-1.52	3.93	0.02	0.11	11.65	8.86	2.45	-1.54	-2.17	**29.9**
4493	2884	2,4,3,6,10,16,18,19,22,24,29,36,38,40,42,46,48,52,53,54	3.26	0.66	4.71	1.39	-0.68	-0.60	0.96	-6.67	-1.21	-3.87	1.18	0.11	6.75	21.71	-0.33	-1.54	4.21	**30.0**
4494	2359	1,6,9,11,17,19,22,24,29,36,35,37,40,43,47,46,48,51	4.37	0.66	8.45	4.76	-8.26	2.82	3.11	-3.49	-1.89	-4.06	1.68	2.02	12.26	8.86	2.45	-1.54	-2.17	**30.0**
4495	1078	1,3,7,9,10,16,18,21,28,31,30,32,46,49,53,54	2.87	0.92	1.54	-4.98	3.24	2.82	3.83	-1.81	2.47	-2.71	1.11	0.11	7.67	10.51	1.06	-1.54	2.94	**30.1**
4496	5184	2,5,19,21,27,26,31,34,38,40,42,49,53,54	-1.60	1.18	1.67	-9.19	-2.96	2.82	-4.06	2.11	6.68	4.31	-1.70	5.84	5.90	5.24	-0.33	6.10	8.05	**30.1**
4497	637	1,3,7,9,10,12,14,30,33,37,40,43,47,46,48,51	3.99	-1.15	7.37	12.12	-1.60	3.68	5.26	-0.06	-6.84	2.12	1.51	2.02	5.02	-0.69	1.06	-1.54	-2.17	**30.1**
4498	2122	1,6,9,11,13,16,18,21,27,26,31,34,38,41,45,55	2.69	0.92	2.17	2.14	5.03	3.68	0.25	1.71	7.14	-2.39	1.26	-1.80	3.00	-4.64	2.45	2.28	4.21	**30.1**
4499	166	1,3,7,11,13,16,18,19,22,25,29,36,35,37,40,43,47,46,48,52,53,54	2.78	0.92	5.27	0.82	-2.25	1.11	3.11	2.11	-2.84	-3.73	0.93	0.11	7.65	16.77	1.06	-1.54	-2.17	**30.1**
4500	4238	2,4,7,11,17,19,22,24,29,39,41,43,47,46,48,52,53,54	3.46	0.14	11.85	1.26	-8.22	-3.18	5.26	2.19	-1.20	3.88	-0.13	0.11	11.34	10.18	-3.11	-1.54	-2.17	**30.1**
4501	2521	2,4,3,6,10,12,14,30,31,34,36,39,41,43,47,49,53,54	4.07	-0.12	6.46	6.95	4.33	-0.60	2.40	-1.90	-5.11	14.59	-0.89	0.11	5.93	-2.01	-0.33	-1.54	-2.17	**30.1**
4502	4996	2,4,7,9,8,14,30,33,37,40,41,45,55	6.37	-1.67	16.55	2.68	-0.35	2.82	6.70	-0.15	-7.98	5.82	1.52	0.11	13.49	-8.92	-3.11	-1.54	-2.17	**30.2**
4503	4215	2,4,7,11,17,19,22,24,29,36,35,37,40,43,47,46,48,51	4.11	0.66	8.33	5.06	-7.81	1.97	3.83	0.91	-1.57	-4.12	1.53	2.02	11.95	10.18	-3.11	-1.54	-2.17	**30.2**
4504	5006	2,4,7,9,8,14,32,46,49,53,54	4.20	-1.67	15.18	-2.65	2.43	-0.60	8.13	-2.04	-7.97	3.79	0.92	2.02	13.90	-3.65	-3.11	-1.54	2.94	**30.3**
4505	788	1,3,7,9,10,13,17,19,22,25,29,39,41,40,42,46,48,52,53,54	3.16	0.66	11.01	-3.16	-7.22	-2.32	5.26	-2.27	-4.04	4.36	-0.50	0.11	10.79	17.10	1.06	-1.54	-2.17	**30.3**
4506	177	1,3,7,11,13,16,18,19,22,25,29,36,38,41,44,55	1.25	-0.38	4.02	-6.38	4.74	-0.60	0.25	2.87	0.26	-2.92	0.04	-1.80	8.43	16.77	1.06	-1.54	4.21	**30.3**
4507	155	1,3,7,11,13,16,18,19,22,24,29,39,41,40,42,47,50,54	1.10	0.66	5.30	-4.52	-2.82	-0.60	2.40	2.59	1.62	5.04	-1.33	-1.80	8.86	16.44	1.06	-1.54	-2.17	**30.3**
4508	3978	2,4,7,11,13,16,18,21,27,26,31,34,38,41,45,55	2.43	0.92	2.05	2.43	5.48	2.82	0.96	6.12	7.45	-2.44	1.10	-1.80	2.69	-3.32	-3.11	2.28	4.21	**30.3**
4509	5151	2,5,19,18,21,28,34,38,41,44,55	-0.44	-0.12	6.99	-10.21	-2.57	1.97	-4.06	-0.68	6.57	5.94	-1.73	3.93	9.46	5.24	-0.33	2.28	8.05	**30.3**
4510	4404	2,4,7,9,10,12,14,32,48,52,53,54	2.14	-1.67	11.98	-1.65	-2.04	1.11	8.13	-2.13	0.25	5.10	-0.39	-3.71	10.32	4.58	-3.11	-1.54	2.94	**30.3**

Westar Energy- JEC to East Manhattan
345/230 kV Transmission Line Project
Table F-3: Weighted, Sorted Z-scores for All Routes

Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
4511	392	1,3,7,11,17,18,20,23,26,31,34,36,39,45,55	1.51	0.14	6.53	4.56	-3.05	1.11	-0.47	8.38	8.18	11.96	-1.04	-1.80	3.71	-10.57	1.06	2.28	-2.17	**30.3**
4512	4812	2,4,7,9,10,16,18,21,27,26,31,34,36,39,45,55	1.76	1.18	7.14	1.94	-1.62	1.97	-0.47	0.26	4.96	9.62	-0.71	-1.80	5.86	3.26	-3.11	2.28	-2.17	**30.3**
4513	5130	2,5,19,18,21,28,34,35,37,40,43,47,46,48,52,53,54	1.09	1.44	8.24	-3.01	-9.55	3.68	-1.19	-1.44	3.47	5.13	-0.84	5.84	8.67	5.24	-0.33	2.28	1.66	**30.4**
4514	3477	2,4,3,6,9,11,13,16,20,23,27,28,31,30,32,46,47,50,54	3.35	1.70	1.34	-0.70	3.94	1.97	3.11	-1.37	7.70	1.29	0.74	-1.80	6.44	1.62	-0.33	-1.54	2.94	**30.4**
4515	3434	2,4,3,6,9,11,13,16,20,23,26,30,32,46,49,53,54	3.11	1.44	1.51	-1.09	2.77	0.25	2.40	0.71	6.79	-1.69	1.16	0.11	6.43	1.62	-0.33	2.28	2.94	**30.4**
4516	784	1,3,7,9,10,13,17,19,22,25,29,36,38,43,47,46,48,52,53,54	2.56	0.66	4.36	-1.05	-0.32	0.25	3.11	-1.38	-2.62	-3.37	0.77	0.11	6.51	17.10	1.06	-1.54	4.21	**30.4**
4517	3110	2,4,3,6,8,14,30,31,34,35,37,40,41,45,55	6.67	-0.64	16.77	3.32	1.50	2.82	5.26	-4.95	-7.11	5.80	1.68	0.11	13.53	-10.24	-0.33	-1.54	-2.17	**30.5**
4518	2894	2,4,3,6,10,16,18,19,22,24,29,39,41,40,42,46,48,52,53,54	3.86	0.40	11.37	-0.33	-7.36	-3.18	3.11	-7.57	-2.63	4.06	-0.09	0.11	11.06	21.71	-0.33	-1.54	-2.17	**30.5**
4519	4980	2,4,7,9,8,14,30,31,34,36,39,41,43,47,46,48,52,53,54	6.33	-0.90	19.77	6.02	-2.59	-2.32	7.41	-1.17	-13.99	11.95	0.58	2.02	13.20	-8.92	-3.11	-1.54	-2.17	**30.6**
4520	295	1,3,7,11,13,16,20,23,26,31,34,36,39,41,40,42,46,48,51	3.24	0.40	6.93	8.25	-5.45	-0.60	1.68	6.08	0.60	6.16	0.09	2.02	4.34	-4.31	1.06	2.28	-2.17	**30.6**
4521	1150	1,3,7,9,10,16,20,23,26,31,34,38,41,45,55	2.31	-0.12	0.23	1.41	4.64	1.97	-1.19	4.32	8.52	0.48	0.59	-1.80	-0.58	2.28	1.06	2.28	4.21	**30.6**
4522	45	1,3,7,11,13,15,23,26,30,32,46,47,50,54	2.89	0.92	3.12	-5.48	1.24	2.82	3.83	4.11	8.51	-1.03	0.67	-1.80	8.86	-4.31	1.06	2.28	2.94	**30.6**
4523	2890	2,4,3,6,10,16,18,19,22,24,29,36,38,43,47,46,48,52,53,54	3.26	0.40	4.72	1.78	-0.46	-0.60	0.96	-6.67	-1.21	-3.67	1.18	0.11	6.79	21.71	-0.33	-1.54	4.21	**30.6**
4524	4378	2,4,7,9,10,12,14,30,31,34,36,39,41,43,50,54	3.67	-0.64	6.33	5.83	3.95	-0.60	3.83	0.82	-2.44	14.77	-1.24	-1.80	5.68	-0.69	-3.11	-1.54	-2.17	**30.6**
4525	2137	1,6,9,11,13,16,18,21,28,31,30,32,46,47,50,54	3.11	1.18	2.33	-2.76	3.60	4.54	4.55	-3.74	5.55	-2.15	1.17	-1.80	8.62	2.61	2.45	-1.54	2.94	**30.7**
4526	463	1,3,7,11,17,19,22,24,29,36,35,37,42,46,48,51	3.78	-0.12	8.12	4.32	-8.27	1.11	3.83	1.31	-1.57	-4.34	1.53	2.02	11.47	10.18	1.06	-1.54	-2.17	**30.7**
4527	4735	2,4,7,9,10,16,18,19,22,24,29,36,35,37,42,46,48,51	4.02	0.40	7.60	2.95	-7.01	0.25	2.40	-4.05	-2.65	-4.02	1.44	2.02	11.19	23.02	-3.11	-1.54	-2.17	**30.7**
4528	498	1,3,7,11,17,19,22,25,29,36,38,40,42,46,48,52,53,54	2.28	-0.12	4.80	0.07	-0.33	0.25	3.83	3.58	-1.55	-3.86	0.80	0.11	6.65	10.51	1.06	-1.54	4.21	**30.8**
4529	4770	2,4,7,9,10,16,18,19,22,25,29,36,38,40,42,46,48,52,53,54	2.51	0.40	4.27	-1.31	0.93	-0.60	2.40	-1.78	-2.62	-3.54	0.71	0.11	6.37	23.35	-3.11	-1.54	4.21	**30.8**
4530	1897	1,6,8,14,32,46,47,50,54	4.26	-1.93	15.22	-2.69	2.12	1.97	8.13	-8.53	-5.99	4.61	0.85	0.11	13.86	-4.97	2.45	-1.54	2.94	**30.8**
4531	3993	2,4,7,11,13,16,18,21,28,31,30,32,46,47,50,54	2.86	1.18	2.21	-2.46	4.05	3.68	5.26	0.67	5.87	-2.20	1.02	-1.80	8.31	3.92	-3.11	-1.54	2.94	**30.9**
4532	3456	2,4,3,6,9,11,13,16,20,23,26,31,34,36,39,45,55	1.85	1.18	6.64	5.63	-1.31	0.25	-1.91	3.18	7.87	12.07	-0.88	-1.80	3.95	-5.63	-0.33	2.28	-2.17	**30.9**
4533	1166	1,3,7,9,10,16,20,23,27,28,31,30,32,46,49,53,54	2.93	0.40	0.47	-3.74	3.07	1.11	2.40	0.95	4.61	0.71	0.67	0.11	5.26	9.52	1.06	-1.54	2.94	**30.9**
4534	2069	1,6,9,11,13,16,18,19,22,25,29,36,35,37,42,46,48,51	3.55	0.14	7.85	2.40	-5.36	1.11	3.11	-3.40	-3.64	-3.84	1.33	2.02	11.48	15.45	2.45	-1.54	-2.17	**30.9**
4535	5189	2,5,19,21,27,26,31,34,38,43,47,49,53,54	-1.59	1.18	1.68	-8.79	-2.74	2.82	-4.06	2.11	6.68	4.51	-1.70	5.84	5.94	5.24	-0.33	6.10	8.05	**30.9**
4536	4877	2,4,7,9,10,16,20,23,26,30,32,46,47,50,54	2.89	0.66	0.86	-3.28	2.42	1.97	3.11	-1.53	8.35	-0.71	0.72	-1.80	5.71	9.52	-3.11	2.28	2.94	**31.0**
4537	797	1,3,7,9,10,13,17,21,27,26,30,32,46,47,50,54	3.20	1.70	2.24	-4.66	1.13	4.54	5.26	-3.89	6.21	-3.41	1.23	-1.80	8.76	4.25	1.06	2.28	2.94	**31.0**
4538	1903	1,6,9,11,13,12,14,30,31,34,35,37,40,43,47,46,48,51	4.30	-1.15	8.26	14.20	0.40	3.68	4.55	0.09	-4.87	1.81	1.79	2.02	5.84	-8.59	2.45	-1.54	-2.17	**31.0**
4539	5096	2,5,19,18,21,27,26,31,34,38,40,42,49,53,54	-1.47	1.70	1.76	-9.19	-2.96	2.82	-4.06	2.11	6.68	4.31	-1.69	5.84	6.16	5.24	-0.33	6.10	8.05	**31.1**
4540	3925	2,4,7,11,13,16,18,19,22,25,29,36,35,37,42,46,48,51	3.30	0.14	7.73	2.70	-4.92	0.25	3.83	1.00	-3.33	-3.90	1.18	2.02	11.17	16.77	-3.11	-1.54	-2.17	**31.1**
4541	1632	1,6,10,16,18,19,22,24,29,36,38,40,42,46,48,52,53,54	3.08	-0.38	4.62	0.56	-1.19	0.25	0.96	-6.27	-1.21	-3.90	1.17	0.11	6.53	21.71	2.45	-1.54	4.21	**31.2**
4542	508	1,3,7,11,17,19,22,25,29,39,41,40,42,46,48,52,53,54	2.88	-0.38	11.46	-1.65	-7.01	-2.32	5.98	2.68	-2.96	4.07	-0.46	0.11	10.96	10.51	1.06	-1.54	-2.17	**31.2**
4543	3759	2,4,7,11,13,12,14,30,31,34,35,37,40,43,47,46,48,51	4.04	-1.15	8.14	14.49	0.85	2.82	5.26	4.50	-4.56	1.76	1.63	2.02	5.53	-7.27	-3.11	-1.54	-2.17	**31.2**
4544	4780	2,4,7,9,10,16,18,19,22,25,29,39,41,40,42,46,48,52,53,54	3.11	0.14	10.93	-3.02	-5.75	-3.18	4.55	-2.67	-4.04	4.39	-0.56	0.11	10.68	23.35	-3.11	-1.54	-2.17	**31.2**
4545	195	1,3,7,11,13,16,18,21,27,26,30,32,48,51	1.51	0.92	8.69	-6.16	-7.12	4.54	6.70	0.36	3.97	-5.09	0.97	-1.80	13.59	3.92	1.06	2.28	2.94	**31.3**
4546	1269	1,6,10,12,14,30,31,34,36,39,41,43,47,49,53,54	3.89	-1.15	6.37	6.12	3.83	0.25	2.40	-1.50	-5.11	14.56	-0.91	0.11	5.70	-2.01	2.45	-1.54	-2.17	**31.3**
4547	2517	2,4,3,6,10,12,14,30,31,34,36,39,41,40,42,47,50,54	4.19	-0.38	6.60	6.81	4.25	1.11	3.11	-3.98	-2.79	15.16	-1.08	-1.80	6.21	-2.01	-0.33	-1.54	-2.17	**31.4**
4548	504	1,3,7,11,17,19,22,25,29,36,38,43,47,46,48,52,53,54	2.28	-0.38	4.81	0.47	-0.11	0.25	3.83	3.58	-1.55	-3.66	0.81	0.11	6.69	10.51	1.06	-1.54	4.21	**31.4**
4549	4776	2,4,7,9,10,16,18,19,22,25,29,36,38,43,47,46,48,52,53,54	2.52	0.14	4.29	-0.91	1.15	-0.60	2.40	-1.78	-2.62	-3.34	0.72	0.11	6.40	23.35	-3.11	-1.54	4.21	**31.4**
4550	792	1,3,7,9,10,13,17,19,22,25,29,39,41,43,47,46,48,52,53,54	3.17	0.92	11.02	-2.76	-7.00	-2.32	5.26	-2.27	-4.04	4.56	-0.50	0.11	10.82	17.10	1.06	-1.54	-2.17	**31.4**
4551	5168	2,5,19,21,27,26,31,34,35,37,42,46,48,52,53,54	1.07	1.18	8.62	-3.54	-10.80	1.97	-1.19	-1.44	4.89	3.62	-0.56	5.84	9.18	5.24	-0.33	6.10	1.66	**31.5**
4552	769	1,3,7,9,10,13,17,19,22,25,29,36,35,37,40,43,47,46,48,51	3.81	1.44	7.50	1.04	-6.59	2.82	3.83	-3.56	-4.41	-3.44	1.16	2.02	11.43	17.10	1.06	-1.54	-2.17	**31.5**
4553	2225	1,6,9,11,13,16,20,23,27,28,31,30,32,46,47,50,54	3.17	0.66	1.26	-1.52	3.43	2.82	3.11	-0.98	7.70	1.26	0.73	-1.80	6.22	1.62	2.45	-1.54	2.94	**31.5**
4554	2182	1,6,9,11,13,16,20,23,26,30,32,46,49,53,54	2.94	0.40	1.42	-1.92	2.26	1.11	2.40	1.11	6.79	-1.72	1.14	0.11	6.20	1.62	2.45	2.28	2.94	**31.5**
4555	649	1,3,7,9,10,13,17,18,20,23,26,30,32,46,47,50,54	3.18	1.70	1.11	-3.42	0.96	2.82	3.83	-1.13	8.35	-0.74	0.81	-1.80	6.33	3.26	1.06	2.28	2.94	**31.5**
4556	1858	1,6,8,14,30,31,34,35,37,40,41,45,55	6.49	-1.67	16.68	2.49	0.99	3.68	5.26	-4.55	-7.11	5.77	1.66	0.11	13.30	-10.24	2.45	-1.54	-2.17	**31.6**
4557	2898	2,4,3,6,10,16,18,19,22,24,29,39,41,43,47,46,48,52,53,54	3.86	0.66	11.38	0.07	-7.14	-3.18	3.11	-7.57	-2.63	4.25	-0.08	0.11	11.09	21.71	-0.33	-1.54	-2.17	**31.6**
4558	1642	1,6,10,16,18,19,22,24,29,39,41,40,42,46,48,52,53,54	3.68	-0.64	11.28	-1.15	-7.86	-2.32	3.11	-7.17	-2.63	4.03	-0.10	0.11	10.83	21.71	2.45	-1.54	-2.17	**31.6**
4559	626	1,3,7,9,10,12,14,30,31,34,38,40,42,46,48,52,53,54	2.93	-1.41	4.47	9.75	6.24	1.11	3.83	2.12	-3.86	1.89	1.17	0.11	0.24	-0.69	1.06	-1.54	4.21	**31.6**
4560	2875	2,4,3,6,10,16,18,19,22,24,29,36,35,37,40,43,47,46,48,51	4.51	1.18	7.86	3.87	-6.74	1.97	1.68	-8.85	-3.00	-3.74	1.58	2.02	11.71	21.71	-0.33	-1.54	-2.17	**31.7**
4561	7	1,3,7,11,13,12,14,30,31,34,35,37,42,46,48,51	3.72	-1.93	7.93	13.75	0.40	1.97	5.26	4.90	-4.56	1.53	1.63	2.02	5.04	-7.27	1.06	-1.54	-2.17	**31.7**
4562	299	1,3,7,11,13,16,20,23,26,31,34,36,39,41,43,47,46,48,51	3.25	0.66	6.94	8.65	-5.23	-0.60	1.68	6.08	0.60	6.36	0.10	2.02	4.38	-4.31	1.06	2.28	-2.17	**31.7**
4563	4081	2,4,7,11,13,16,20,23,27,28,31,30,32,46,47,50,54	2.92	0.66	1.14	-1.23	3.88	1.97	3.83	3.43	8.01	1.21	0.58	-1.80	5.91	2.94	-3.11	-1.54	2.94	**31.7**
4564	4038	2,4,7,11,13,16,20,23,26,30,32,46,49,53,54	2.68	0.40	1.30	-1.62	2.71	0.25	3.11	5.51	7.10	-1.77	0.99	0.11	5.89	2.94	-3.11	2.28	2.94	**31.7**
4565	1638	1,6,10,16,18,19,22,24,29,36,38,43,47,46,48,52,53,54	3.09	-0.64	4.63	0.96	-0.97	0.25	0.96	-6.27	-1.21	-3.70	1.17	0.11	6.56	21.71	2.45	-1.54	4.21	**31.8**

Table F-3: Weighted, Sorted Z-scores for All Routes

		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
4566	3196	2,4,3,6,9,11,13,12,14,32,48,52,53,54	2.50	-1.15	12.78	0.79	-1.56	1.11	8.13	-1.98	1.01	4.90	-0.11	-3.71	11.36	-3.32	-0.33	-1.54	2.94	**31.8**
4567	2677	2,4,3,6,10,13,17,19,22,25,29,36,38,40,42,46,48,51	3.57	0.92	7.08	1.36	-2.94	1.11	3.11	-7.29	-3.46	-3.45	1.15	2.02	10.52	15.78	-0.33	-1.54	4.21	**31.8**
4568	3346	2,4,3,6,9,11,13,16,18,21,27,26,30,32,46,49,53,54	3.38	2.48	2.82	-2.33	2.94	1.97	3.83	-2.05	4.64	-4.35	1.60	0.11	9.37	2.61	-0.33	2.28	2.94	**31.9**
4569	5101	2,5,19,18,21,27,26,31,34,38,43,47,49,53,54	-1.47	1.70	1.77	-8.79	-2.74	2.82	-4.06	2.11	6.68	4.51	-1.68	5.84	6.20	5.24	-0.33	6.10	8.05	**32.0**
4570	517	1,3,7,11,17,21,27,26,30,32,46,47,50,54	2.92	0.66	2.69	-3.14	1.33	4.54	5.98	1.07	7.28	-3.70	1.26	-1.80	8.93	-2.33	1.06	2.28	2.94	**32.0**
4571	2204	1,6,9,11,13,16,20,23,26,31,34,36,39,45,55	1.68	0.14	6.55	4.80	-1.81	1.11	-1.91	3.58	7.87	12.04	-0.90	-1.80	3.73	-5.63	2.45	2.28	-2.17	**32.0**
4572	270	1,3,7,11,13,16,18,21,28,34,36,39,45,55	1.25	0.14	7.06	3.66	-0.40	2.82	0.25	5.62	4.62	10.61	-0.90	-1.80	5.12	-3.32	1.06	-1.54	-2.17	**32.1**
4573	207	1,3,7,11,13,16,18,21,27,26,31,34,36,39,41,40,42,46,48,51	3.51	1.44	8.24	7.01	-5.28	1.11	3.11	3.31	-1.55	3.50	0.54	2.02	7.29	-3.32	1.06	2.28	-2.17	**32.1**
4574	1062	1,3,7,9,10,16,18,21,27,26,31,34,38,41,45,55	2.58	0.92	1.54	0.17	4.81	3.68	0.25	1.56	6.37	-2.18	1.03	-1.80	2.37	3.26	1.06	2.28	4.21	**32.1**
4575	3170	2,4,3,6,9,11,13,12,14,30,31,34,36,39,41,43,50,54	4.02	-0.12	7.14	8.28	4.44	-0.60	3.83	0.97	-1.68	14.57	-0.96	-1.80	6.72	-8.59	-0.33	-1.54	-2.17	**32.2**
4576	5194	2,5,19,21,27,26,33,37,40,43,47,46,48,52,54	1.27	0.92	8.66	-3.25	-12.37	3.68	-0.47	-1.44	3.68	3.92	-0.57	5.84	9.66	5.24	-0.33	6.10	1.66	**32.2**
4577	4060	2,4,7,11,13,16,20,23,26,31,34,36,39,45,55	1.42	0.14	6.43	5.10	-1.36	0.25	-1.19	7.98	8.18	11.99	-1.05	-1.80	3.42	-4.31	-3.11	2.28	-2.17	**32.2**
4578	632	1,3,7,9,10,12,14,30,31,34,38,43,47,46,48,52,53,54	2.94	-1.67	4.49	10.15	6.46	1.11	3.83	2.12	-3.86	2.09	1.17	0.11	0.28	-0.69	1.06	-1.54	4.21	**32.2**
4579	2687	2,4,3,6,10,13,17,19,22,25,29,39,41,40,42,46,48,51	4.17	0.66	13.74	-0.36	-9.61	-1.46	5.26	-8.19	-4.87	4.47	-0.12	2.02	14.83	15.78	-0.33	-1.54	-2.17	**32.3**
4580	512	1,3,7,11,17,19,22,25,29,41,43,47,46,48,52,53,54	2.89	-0.12	11.47	-1.25	-6.79	-2.32	5.98	2.68	-2.96	4.27	-0.46	0.11	11.00	10.51	1.06	-1.54	-2.17	**32.4**
4581	4784	2,4,7,9,10,16,18,19,22,25,29,39,41,43,47,46,48,52,53,54	3.12	0.40	10.95	-2.62	-5.53	-3.18	4.55	-2.67	-4.04	4.59	-0.55	0.11	10.71	23.35	-3.11	-1.54	-2.17	**32.4**
4582	3368	2,4,3,6,9,11,13,16,18,21,27,26,31,34,36,39,45,55	2.12	2.22	7.95	4.39	-1.14	1.97	-0.47	0.42	5.72	9.41	-0.44	-1.80	6.90	-4.64	-0.33	2.28	-2.17	**32.4**
4583	2683	2,4,3,6,10,13,17,19,22,25,29,36,38,43,47,46,48,51	3.57	0.66	7.09	1.75	-2.72	1.11	3.11	-7.29	-3.46	-3.26	1.16	2.02	10.55	15.78	-0.33	-1.54	4.21	**32.4**
4584	489	1,3,7,11,17,19,22,25,29,36,35,37,40,43,47,46,48,51	3.53	0.40	7.95	2.55	-6.39	2.82	4.55	1.40	-3.33	-3.73	1.20	2.02	11.61	10.51	1.06	-1.54	-2.17	**32.5**
4585	4761	2,4,7,9,10,16,18,19,22,25,29,36,35,37,40,43,47,46,48,51	3.77	0.92	7.43	1.18	-5.13	1.97	3.11	-3.96	-4.41	-3.41	1.11	2.02	11.33	23.35	-3.11	-1.54	-2.17	**32.5**
4586	4374	2,4,7,9,10,12,14,30,31,34,36,39,41,40,42,49,53,54	3.96	-0.64	6.47	6.02	4.06	-0.60	3.11	2.90	-4.77	14.31	-1.00	0.11	6.03	-0.69	-3.11	-1.54	-2.17	**32.5**
4587	369	1,3,7,11,17,18,20,23,26,30,32,46,47,50,54	2.90	0.66	1.56	-1.90	1.16	2.82	4.55	3.83	9.43	-1.03	0.84	-1.80	6.50	-3.32	1.06	2.28	2.94	**32.5**
4588	5080	2,5,19,18,21,27,26,31,34,35,37,42,46,48,52,53,54	1.19	1.70	8.71	-3.54	-10.80	1.97	-1.19	-1.44	4.89	3.62	-0.54	5.84	9.43	5.24	-0.33	6.10	1.66	**32.5**
4589	4789	2,4,7,9,10,16,18,21,27,26,30,32,46,47,50,54	3.15	1.70	2.17	-4.52	2.59	3.68	4.55	-4.29	6.21	-3.38	1.17	-1.80	8.65	10.51	-3.11	2.28	2.94	**32.5**
4590	1265	1,6,10,12,14,30,31,34,36,39,41,40,42,47,50,54	4.02	-1.41	6.51	5.99	3.75	1.97	3.11	-3.58	-2.79	15.13	-1.10	-1.80	5.99	-2.01	2.45	-1.54	-2.17	**32.5**
4591	5183	2,5,19,21,27,26,31,34,38,40,42,47,50,54	-1.47	1.44	1.82	-8.93	-2.81	4.54	-3.34	0.03	9.01	5.08	-1.88	3.93	6.22	5.24	-0.33	6.10	8.05	**32.7**
4592	1077	1,3,7,9,10,16,18,21,28,31,30,32,46,47,50,54	3.00	1.18	1.70	-4.72	3.38	4.54	4.55	-3.89	4.79	-1.94	0.95	-1.80	7.99	10.51	1.06	-1.54	2.94	**32.7**
4593	5233	2,5,19,21,28,34,36,39,44,55	-1.31	-0.38	12.59	-8.78	-9.24	1.11	-4.77	-1.58	5.16	17.71	-3.45	3.93	12.87	5.24	-0.33	2.28	1.66	**32.7**
4594	3291	2,4,3,6,9,11,13,16,18,19,22,24,29,36,35,37,42,46,48,51	4.37	1.44	8.41	5.39	-6.52	0.25	2.40	-3.89	-1.89	-4.23	1.71	2.02	12.23	15.12	-0.33	-1.54	-2.17	**32.8**
4595	1646	1,6,10,16,18,19,22,24,29,39,41,43,47,46,48,52,53,54	3.69	-0.38	11.29	-0.76	-7.64	-2.32	3.11	-7.17	-2.63	4.22	-0.10	0.11	10.87	21.71	2.45	-1.54	-2.17	**32.8**
4596	748	1,3,7,9,10,13,17,19,22,24,29,36,38,40,42,46,48,52,53,54	3.20	1.18	4.81	0.72	-2.20	0.25	2.40	-1.47	-0.87	-3.98	1.13	0.11	7.00	16.77	1.06	-1.54	4.21	**32.8**
4597	3326	2,4,3,6,9,11,13,16,18,19,22,25,29,36,38,40,42,46,48,52,53,54	2.87	1.44	5.08	1.14	1.41	-0.60	2.40	-1.62	-1.86	-3.74	0.98	0.11	7.41	15.45	-0.33	-1.54	4.21	**32.8**
4598	1623	1,6,10,16,18,19,22,24,29,36,35,37,40,43,47,46,48,51	4.34	0.14	7.78	3.05	-7.24	2.82	1.68	-8.45	-3.00	-3.77	1.56	2.02	11.48	21.71	2.45	-1.54	-2.17	**32.8**
4599	5005	2,4,7,9,8,14,32,46,47,50,54	4.33	-1.41	15.34	-2.39	2.57	1.11	8.85	-4.13	-5.64	4.56	0.76	0.11	14.22	-3.65	-3.11	-1.54	2.94	**32.9**
4600	33	1,3,7,11,13,12,14,30,33,37,40,43,47,46,48,51	3.92	-1.67	7.97	14.04	-1.17	3.68	5.98	4.90	-5.77	1.83	1.62	2.02	5.52	-7.27	1.06	-1.54	-2.17	**32.9**
4601	358	1,3,7,11,13,16,20,23,27,28,34,36,39,45,55	1.31	-0.38	5.99	4.89	-0.57	1.11	-1.19	8.38	6.77	14.03	-1.35	-1.80	2.71	-4.31	1.06	-1.54	-2.17	**32.9**
4602	1009	1,3,7,9,10,16,18,19,22,25,29,36,35,37,42,46,48,51	3.44	0.14	7.22	0.44	-5.58	1.11	3.11	-3.56	-4.41	-3.64	1.11	2.02	10.84	23.35	1.06	-1.54	-2.17	**32.9**
4603	1944	1,6,9,11,13,12,14,32,48,52,53,54	2.32	-2.19	12.70	-0.03	-2.06	1.97	8.13	-1.58	1.01	4.87	-0.12	-3.71	11.14	-3.32	2.45	-1.54	2.94	**33.0**
4604	1425	1,6,10,13,17,19,22,25,29,36,38,40,42,46,48,51	3.39	-0.12	6.99	0.53	-3.44	1.97	3.11	-6.89	-3.46	-3.48	1.14	2.02	10.29	15.78	2.45	-1.54	4.21	**33.0**
4605	3433	2,4,3,6,9,11,13,16,20,23,26,30,32,46,47,50,54	3.24	1.70	1.67	-0.83	2.91	1.97	3.11	-1.37	9.11	-0.92	1.00	-1.80	6.75	1.62	-0.33	2.28	2.94	**33.0**
4606	2094	1,6,9,11,13,16,18,21,27,26,30,32,46,49,53,54	3.20	1.44	2.73	-3.15	2.43	2.82	3.83	-1.65	4.64	-4.38	1.59	0.11	9.15	2.61	2.45	2.28	2.94	**33.0**
4607	136	1,3,7,11,13,16,18,19,22,24,29,36,35,37,40,43,47,46,48,52,53,54	3.43	1.18	5.73	2.99	-3.91	1.11	2.40	2.02	-1.08	-4.15	1.30	0.11	8.17	16.44	1.06	-1.54	-2.17	**33.1**
4608	3800	2,4,7,11,13,12,14,32,48,52,53,54	2.07	-2.19	12.58	0.27	-1.61	1.11	8.85	2.82	1.33	4.81	-0.28	-3.71	10.83	-2.01	-3.11	-1.54	2.94	**33.1**
4609	5106	2,5,19,18,21,27,26,33,37,40,43,47,46,48,52,54	1.39	1.44	8.75	-3.25	-12.37	3.68	-0.47	-1.44	3.68	3.92	-0.56	5.84	9.92	5.24	-0.33	6.10	1.66	**33.2**
4610	211	1,3,7,11,13,16,18,21,27,26,31,34,36,39,41,43,47,46,48,51	3.51	1.70	8.25	7.41	-5.06	1.11	3.11	3.31	-1.55	3.70	0.54	2.02	7.32	-3.32	1.06	2.28	-2.17	**33.2**
4611	3950	2,4,7,11,13,16,18,21,27,26,30,32,46,49,53,54	2.94	1.44	2.61	-2.86	2.88	1.97	4.55	2.75	4.96	-4.43	1.44	0.11	8.84	3.92	-3.11	2.28	2.94	**33.2**
4612	758	1,3,7,9,10,13,17,19,22,24,29,39,41,40,42,46,48,52,53,54	3.80	0.92	11.47	-1.00	-8.88	-2.32	4.55	-2.37	-2.28	3.94	-0.13	0.11	11.31	16.77	1.06	-1.54	-2.17	**33.2**
4613	147	1,3,7,11,13,16,18,19,22,24,29,36,38,41,44,55	1.90	-0.12	4.49	-4.21	3.08	-0.60	-0.47	2.78	2.01	-3.34	0.41	-1.80	8.96	16.44	1.06	-1.54	4.21	**33.3**
4614	3336	2,4,3,6,9,11,13,16,18,19,22,25,29,39,41,40,42,48,52,53,54	3.47	1.18	11.74	-0.58	-5.26	-3.18	4.55	-2.52	-3.27	4.18	-0.28	0.11	11.72	15.45	-0.33	-1.54	-2.17	**33.3**
4615	1918	1,6,9,11,13,12,14,30,31,34,36,39,41,43,50,54	3.85	-1.15	7.05	7.45	3.93	0.25	3.83	1.37	-1.68	14.54	-0.98	-1.80	6.49	-8.59	2.45	-1.54	-2.17	**33.3**
4616	754	1,3,7,9,10,13,17,19,22,24,29,36,38,43,47,46,48,52,53,54	3.21	0.92	4.83	1.12	-1.99	0.25	2.40	-1.47	-0.87	-3.79	1.14	0.11	7.04	16.77	1.06	-1.54	4.21	**33.4**
4617	2691	2,4,3,6,10,13,17,19,22,25,29,39,41,43,47,46,48,51	4.18	0.92	13.75	0.04	-9.39	-1.46	5.26	-8.19	-4.87	4.67	-0.11	2.02	14.86	15.78	-0.33	-1.54	-2.17	**33.4**
4618	238	1,3,7,11,13,16,18,21,28,31,30,32,46,49,53,54	2.79	0.92	2.14	-3.06	3.67	2.82	4.55	3.15	3.54	-3.00	1.22	0.11	8.17	3.92	1.06	-1.54	2.94	**33.4**
4619	3332	2,4,3,6,9,11,13,16,18,19,22,25,29,36,38,43,47,46,48,52,53,54	2.87	1.18	5.10	1.54	1.63	-0.60	2.40	-1.62	-1.86	-3.55	0.99	0.11	7.44	15.45	-0.33	-1.54	4.21	**33.4**
4620	1435	1,6,10,13,17,19,22,25,29,39,41,40,42,46,48,51	3.99	-0.38	13.65	-1.18	-10.11	-0.60	5.26	-7.79	-4.87	4.45	-0.13	2.02	14.60	15.78	2.45	-1.54	-2.17	**33.4**

Table F-3: Weighted, Sorted Z-scores for All Routes

Weights			3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
4621	3774	2,4,7,11,13,12,14,30,31,34,36,39,41,43,50,54	3.59	-1.15	6.93	7.75	4.38	-0.60	4.55	5.78	-1.37	14.48	-1.13	-1.80	6.18	-7.27	-3.11	-1.54	-2.17	**33.5**
4622	2116	1,6,9,11,13,16,18,21,27,26,31,34,36,39,45,55	1.94	1.18	7.86	3.57	-1.64	2.82	-0.47	0.82	5.72	9.38	-0.45	-1.80	6.67	-4.64	2.45	2.28	-2.17	**33.5**
4623	1165	1,3,7,9,10,16,20,23,27,28,31,30,32,46,47,50,54	3.06	0.66	0.62	-3.49	3.21	2.82	3.11	-1.13	6.94	1.47	0.50	-1.80	5.58	9.52	1.06	-1.54	2.94	**33.6**
4624	1122	1,3,7,9,10,16,20,23,26,30,32,46,49,53,54	2.82	0.40	0.79	-3.88	2.04	1.11	2.40	0.95	6.03	-1.51	0.92	0.11	5.57	9.52	1.06	2.28	2.94	**33.6**
4625	1431	1,6,10,13,17,19,22,25,29,36,38,43,47,46,48,51	3.40	-0.38	7.00	0.93	-3.22	1.97	3.11	-6.89	-3.46	-3.29	1.15	2.02	10.33	15.78	2.45	-1.54	4.21	**33.6**
4626	607	1,3,7,9,10,12,14,30,31,34,35,37,40,43,47,46,48,51	4.19	-0.64	7.63	12.23	0.18	3.68	4.55	-0.06	-5.64	2.02	1.56	2.02	5.20	-0.69	1.06	-1.54	-2.17	**33.6**
4627	2525	2,4,3,6,10,12,14,30,31,34,38,40,42,46,48,51	3.94	-1.41	7.20	12.55	3.84	1.97	3.83	-3.80	-4.69	2.00	1.55	2.02	4.28	-2.01	-0.33	-1.54	4.21	**33.6**
4628	4966	2,4,7,9,8,14,30,31,34,35,37,40,41,45,55	6.57	-1.15	16.80	2.79	1.44	2.82	5.98	-0.15	-6.77	5.71	1.58	0.11	13.67	-8.92	-3.11	-1.54	-2.17	**33.6**
4629	5095	2,5,19,18,21,27,26,31,34,38,40,42,47,50,54	-1.34	1.96	1.91	-8.93	-2.81	4.54	-3.34	0.03	9.01	5.08	-1.87	3.93	6.48	5.24	-0.33	6.10	8.05	**33.7**
4630	3972	2,4,7,11,13,16,18,21,27,26,31,34,36,39,45,55	1.68	1.18	7.74	3.86	-1.19	1.97	0.25	5.22	6.04	9.33	-0.60	-1.80	6.36	-3.32	-3.11	2.28	-2.17	**33.7**
4631	5145	2,5,19,18,21,28,34,36,39,44,55	-1.19	0.14	12.68	-8.78	-9.24	1.11	-4.77	-1.58	5.16	17.71	-3.44	3.93	13.13	5.24	-0.33	2.28	1.66	**33.7**
4632	468	1,3,7,11,17,19,22,24,29,36,38,40,42,46,48,52,53,54	2.92	0.14	5.26	2.23	-2.00	0.25	3.11	3.49	0.21	-4.27	1.17	0.11	7.18	10.18	1.06	-1.54	4.21	**33.7**
4633	4740	2,4,7,9,10,16,18,19,22,24,29,36,38,40,42,46,48,52,53,54	3.16	0.66	4.74	0.86	-0.74	-0.60	1.68	-1.87	-0.87	-3.95	1.08	0.11	6.89	23.02	-3.11	-1.54	4.21	**33.7**
4634	4377	2,4,7,9,10,12,14,30,31,34,36,39,41,43,47,49,53,54	3.97	-0.12	6.49	6.42	4.28	-0.60	3.11	2.90	-4.77	14.51	-1.00	0.11	6.07	-0.69	-3.11	-1.54	-2.17	**33.9**
4635	2039	1,6,9,11,13,16,18,19,22,24,29,36,35,37,42,46,48,51	4.20	0.40	8.32	4.57	-7.03	1.11	2.40	-3.49	-1.89	-4.26	1.70	2.02	12.00	15.12	2.45	-1.54	-2.17	**33.9**
4636	5211	2,5,19,21,28,31,33,37,42,46,48,51	1.63	0.14	10.65	-1.58	-14.25	3.68	0.25	-2.15	1.78	5.19	-0.55	7.74	12.52	5.24	-0.33	2.28	1.66	**33.9**
4637	2074	1,6,9,11,13,16,18,19,22,25,29,36,38,40,42,46,48,52,53,54	2.69	0.40	4.99	0.32	0.91	0.25	2.40	-1.22	-1.86	-3.77	0.97	0.11	7.18	15.45	2.45	-1.54	4.21	**33.9**
4638	3166	2,4,3,6,9,11,13,12,14,30,31,34,36,39,41,40,42,49,53,54	4.32	-0.12	7.28	8.47	4.54	-0.60	3.11	3.06	-4.01	14.11	-0.73	0.11	7.07	-8.59	-0.33	-1.54	-2.17	**34.0**
4639	310	1,3,7,11,13,16,20,23,26,31,34,38,41,45,55	2.24	-0.12	0.83	3.33	5.07	1.97	-0.47	9.28	9.60	0.19	0.69	-1.80	-0.07	-4.31	1.06	2.28	4.21	**34.0**
4640	1144	1,3,7,9,10,16,20,23,26,31,34,36,39,45,55	1.56	0.14	5.92	2.84	-2.03	1.11	-1.91	3.42	7.11	12.25	-1.12	-1.80	3.09	2.28	1.06	2.28	-2.17	**34.0**
4641	3895	2,4,7,11,13,16,18,19,22,24,29,36,35,37,42,46,48,51	3.94	0.40	8.20	4.86	-6.58	0.25	3.11	0.91	-1.57	-4.31	1.54	2.02	11.69	16.44	-3.11	-1.54	-2.17	**34.1**
4642	3930	2,4,7,11,13,16,18,19,22,25,29,36,38,40,42,46,48,52,53,54	2.44	0.40	4.87	0.61	1.36	-0.60	3.11	3.18	-1.55	-3.83	0.82	0.11	6.87	16.77	-3.11	-1.54	4.21	**34.1**
4643	2181	1,6,9,11,13,16,20,23,26,30,32,46,47,50,54	3.07	0.66	1.58	-1.66	2.41	2.82	3.11	-0.98	9.11	-0.95	0.98	-1.80	6.52	1.62	2.45	2.28	2.94	**34.2**
4644	478	1,3,7,11,17,19,22,24,29,39,41,40,42,46,48,52,53,54	3.52	-0.12	11.92	0.52	-8.67	-2.32	5.26	2.59	-1.20	3.65	-0.10	0.11	11.48	10.18	1.06	-1.54	-2.17	**34.2**
4645	4750	2,4,7,9,10,16,18,19,22,24,29,39,41,40,42,46,48,52,53,54	3.76	0.40	11.40	-0.86	-7.41	-3.18	3.83	-2.76	-2.28	3.97	-0.19	0.11	11.20	23.02	-3.11	-1.54	-2.17	**34.2**
4646	5284	2,5,22,25,29,36,35,37,42,49,53,54	-0.96	0.14	8.04	-12.42	-9.50	0.25	-4.06	-0.70	3.49	8.66	-2.40	5.84	12.88	21.38	-0.33	2.28	1.66	**34.2**
4647	2531	2,4,3,6,10,12,14,30,31,34,38,43,47,46,48,51	3.95	-1.67	7.21	12.95	4.06	1.97	3.83	-3.80	-4.69	2.20	1.56	2.02	4.32	-2.01	-0.33	-1.54	4.21	**34.2**
4648	326	1,3,7,11,13,16,20,23,27,28,31,30,32,46,49,53,54	2.85	0.40	1.07	-1.83	3.50	1.11	3.11	5.91	5.69	0.42	0.77	0.11	5.77	2.94	1.06	-1.54	2.94	**34.3**
4649	474	1,3,7,11,17,19,22,24,29,36,38,43,47,46,48,52,53,54	2.93	-0.12	5.28	2.63	-1.78	0.25	3.11	3.49	0.21	-4.08	1.18	0.11	7.21	10.18	1.06	-1.54	4.21	**34.3**
4650	4746	2,4,7,9,10,16,18,19,22,24,29,36,38,43,47,46,48,52,53,54	3.16	0.40	4.75	1.26	-0.52	-0.60	1.68	-1.87	-0.87	-3.76	1.08	0.11	6.93	23.02	-3.11	-1.54	4.21	**34.3**
4651	4037	2,4,7,11,13,16,20,23,26,30,32,46,47,50,54	2.81	0.66	1.46	-1.36	2.85	1.97	3.83	3.43	9.43	-1.01	0.83	-1.80	6.21	2.94	-3.11	2.28	2.94	**34.4**
4652	762	1,3,7,9,10,13,17,19,22,24,29,39,41,43,47,46,48,52,53,54	3.81	1.18	11.49	-0.60	-8.66	-2.32	4.55	-2.37	-2.28	4.14	-0.13	0.11	11.35	16.77	1.06	-1.54	-2.17	**34.4**
4653	3340	2,4,3,6,9,11,13,16,18,19,22,25,29,39,41,43,47,46,48,52,53,54	3.48	1.44	11.76	-0.18	-5.04	-3.18	4.55	-2.52	-3.27	4.38	-0.28	0.11	11.75	15.45	-0.33	-1.54	-2.17	**34.4**
4654	2084	1,6,9,11,13,16,18,19,22,25,29,39,41,40,42,46,48,52,53,54	3.30	0.14	11.65	-1.40	-5.77	-2.32	4.55	-2.12	-3.27	4.15	-0.30	0.11	11.49	15.45	2.45	-1.54	-2.17	**34.4**
4655	739	1,3,7,9,10,13,17,19,22,24,29,36,35,37,40,43,47,46,48,51	4.46	1.70	7.97	3.20	-8.26	2.82	3.11	-3.65	-2.65	-3.86	1.53	2.02	11.96	16.77	1.06	-1.54	-2.17	**34.5**
4656	22	1,3,7,11,13,12,14,30,31,34,38,40,42,46,48,52,53,54	2.86	-1.93	5.07	11.67	6.67	1.11	4.55	7.08	-2.78	1.60	1.28	0.11	0.75	-7.27	1.06	-1.54	4.21	**34.5**
4657	3317	2,4,3,6,9,11,13,16,18,19,22,25,29,36,35,37,40,43,47,46,48,51	4.13	1.96	8.24	3.62	-4.64	1.97	3.11	-3.80	-3.64	-3.62	1.38	2.02	12.36	15.45	-0.33	-1.54	-2.17	**34.5**
4658	3345	2,4,3,6,9,11,13,16,18,21,27,26,30,32,46,47,50,54	3.51	2.74	2.98	-2.07	3.08	3.68	4.55	-4.14	6.97	-3.58	1.44	-1.80	9.69	2.61	-0.33	2.28	2.94	**34.5**
4659	1439	1,6,10,13,17,19,22,25,29,39,41,43,47,46,48,51	4.00	-0.12	13.66	-0.79	-9.90	-0.60	5.26	-7.79	-4.87	4.64	-0.12	2.02	14.64	15.78	2.45	-1.54	-2.17	**34.6**
4660	2080	1,6,9,11,13,16,18,19,22,25,29,36,38,43,47,46,48,52,53,54	2.70	0.14	5.01	0.71	1.13	0.25	2.40	-1.22	-1.86	-3.58	0.98	0.11	7.22	15.45	2.45	-1.54	4.21	**34.6**
4661	3940	2,4,7,11,13,16,18,19,22,25,29,39,41,40,42,46,48,52,53,54	3.04	0.14	11.53	-1.10	-5.32	-3.18	5.26	2.28	-2.96	4.10	-0.45	0.11	11.18	16.77	-3.11	-1.54	-2.17	**34.6**
4662	1220	1,3,7,9,8,14,30,31,34,36,39,41,40,42,46,48,52,53,54	6.39	-1.15	19.84	5.29	-3.05	-1.46	7.41	-0.77	-13.99	11.73	0.61	2.02	13.34	-8.92	1.06	-1.54	-2.17	**34.6**
4663	5123	2,5,19,18,21,28,31,33,37,42,46,48,51	1.76	0.40	10.74	-1.58	-14.25	3.68	0.25	-2.15	1.78	5.19	-0.53	7.74	12.77	5.24	-0.33	2.28	1.66	**34.6**
4664	3936	2,4,7,11,13,16,18,19,22,25,29,36,38,43,47,46,48,52,53,54	2.44	0.14	4.89	1.01	1.58	-0.60	3.11	3.18	-1.55	-3.63	0.82	0.11	6.91	16.77	-3.11	-1.54	4.21	**34.7**
4665	1273	1,6,10,12,14,30,31,34,38,40,42,46,48,51	3.77	-2.45	7.11	11.73	3.34	2.82	3.83	-3.40	-4.69	1.97	1.54	2.02	4.06	-2.01	2.45	-1.54	4.21	**34.8**
4666	2647	2,4,3,6,10,13,17,19,22,24,29,36,38,40,42,46,48,51	4.21	1.18	7.54	3.52	-4.60	1.11	2.40	-7.38	-1.70	-3.87	1.52	2.02	11.04	15.45	-0.33	-1.54	4.21	**34.8**
4667	1034	1,3,7,9,10,16,18,21,27,26,30,32,46,49,53,54	3.09	1.44	2.10	-5.12	2.21	2.82	3.83	-1.81	3.88	-4.17	1.37	0.11	8.51	10.51	1.06	2.28	2.94	**35.1**
4668	4373	2,4,7,9,10,12,14,30,31,34,36,39,41,40,42,47,50,54	4.09	-0.38	6.63	6.28	4.20	1.11	3.83	0.82	-2.44	15.08	-1.18	-1.80	6.36	-0.69	-3.11	-1.54	-2.17	**35.1**
4669	28	1,3,7,11,13,12,14,30,31,34,38,43,47,46,48,52,53,54	2.86	-2.19	5.08	12.07	6.89	1.11	4.55	7.08	-2.78	1.80	1.28	0.11	0.78	-7.27	1.06	-1.54	4.21	**35.1**
4670	1914	1,6,9,11,13,12,14,30,31,34,36,39,41,40,42,49,53,54	4.14	-1.15	7.19	7.65	4.04	0.25	3.11	3.46	-4.01	14.08	-0.74	0.11	6.85	-8.59	2.45	-1.54	-2.17	**35.1**
4671	3649	2,4,3,6,9,11,17,19,22,25,29,36,38,40,42,46,48,51	3.62	0.92	7.77	2.87	-2.73	1.11	3.83	-2.33	-2.35	-3.74	1.25	2.02	11.37	9.19	-0.33	-1.54	4.21	**35.1**
4672	2657	2,4,3,6,10,13,17,19,22,24,29,39,41,40,42,46,48,51	4.82	0.92	14.20	1.81	-11.27	-1.46	4.55	-8.28	-3.12	4.06	0.25	2.02	15.35	15.45	-0.33	-1.54	-2.17	**35.2**
4673	3770	2,4,7,11,13,12,14,30,31,34,36,39,41,40,42,49,53,54	3.88	-1.15	7.07	7.94	4.49	-0.60	3.83	7.86	-3.69	14.02	-0.89	0.11	6.54	-7.27	-3.11	-1.54	-2.17	**35.3**
4674	482	1,3,7,11,17,19,22,24,29,39,41,43,47,46,48,52,53,54	3.53	0.14	11.94	0.92	-8.45	-2.32	5.26	2.59	-1.20	3.85	-0.09	0.11	11.52	10.18	1.06	-1.54	-2.17	**35.3**
4675	4754	2,4,7,9,10,16,18,19,22,24,29,39,41,43,47,46,48,52,53,54	3.76	0.66	11.41	-0.46	-7.19	-3.18	3.83	-2.76	-2.28	4.17	-0.19	0.11	11.24	23.02	-3.11	-1.54	-2.17	**35.3**

Table F-3: Weighted, Sorted Z-scores for All Routes

Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
4676	1240	1,3,7,9,8,14,30,33,37,40,41,45,55	6.44	-1.67	16.63	2.34	-0.59	3.68	6.70	0.25	-7.98	5.79	1.56	0.11	13.67	-8.92	1.06	-1.54	-2.17	**35.4**
4677	3169	2,4,3,6,9,11,13,12,14,30,31,34,36,39,41,43,47,49,53,54	4.32	0.40	7.29	8.87	4.76	-0.60	3.11	3.06	-4.01	14.30	-0.72	0.11	7.11	-8.59	-0.33	-1.54	-2.17	**35.4**
4678	1279	1,6,10,12,14,30,31,34,38,43,47,46,48,51	3.77	-2.71	7.13	12.13	3.56	2.82	3.83	-3.40	-4.69	2.17	1.54	2.02	4.10	-2.01	2.45	-1.54	4.21	**35.4**
4679	2653	2,4,3,6,10,13,17,19,22,24,29,36,38,43,47,46,48,51	4.22	0.92	7.56	3.92	-4.38	1.11	2.40	-7.38	-1.70	-3.67	1.52	2.02	11.08	15.45	-0.33	-1.54	4.21	**35.4**
4680	459	1,3,7,11,17,19,22,24,29,36,35,37,40,43,47,46,48,51	4.18	0.66	8.42	4.72	-8.05	2.82	3.83	1.31	-1.57	-4.15	1.57	2.02	12.13	10.18	1.06	-1.54	-2.17	**35.4**
4681	4731	2,4,7,9,10,16,18,19,22,24,29,36,35,37,40,43,47,46,48,51	4.41	1.18	7.90	3.34	-6.79	1.97	2.40	-4.05	-2.65	-3.83	1.47	2.02	11.85	23.02	-3.11	-1.54	-2.17	**35.4**
4682	1250	1,3,7,9,8,14,32,46,49,53,54	4.27	-1.67	15.27	-2.99	2.19	0.25	8.13	-1.64	-7.97	3.77	0.95	2.02	14.08	-3.65	1.06	-1.54	2.94	**35.5**
4683	222	1,3,7,11,13,16,18,21,27,26,31,34,38,41,45,55	2.50	0.92	2.14	2.09	5.25	3.68	0.96	6.52	7.45	-2.47	1.14	-1.80	2.87	-3.32	1.06	2.28	4.21	**35.5**
4684	648	1,3,7,9,10,12,14,32,48,52,53,54	2.21	-1.67	12.07	-1.99	-2.28	1.97	8.13	-1.74	0.25	5.07	-0.35	-3.71	10.50	4.58	1.06	-1.54	2.94	**35.5**
4685	4533	2,4,7,9,10,13,17,19,22,25,29,36,38,40,42,46,48,51	3.47	0.92	7.11	0.83	-2.99	1.11	3.83	-2.48	-3.11	-3.54	1.05	2.02	10.66	17.10	-3.11	-1.54	4.21	**35.5**
4686	1056	1,3,7,9,10,16,18,21,27,26,31,34,36,39,45,55	1.83	1.18	7.23	1.60	-1.86	2.82	-0.47	0.66	4.96	9.59	-0.68	-1.80	6.04	3.26	1.06	2.28	-2.17	**35.5**
4687	2088	1,6,9,11,13,16,18,19,22,25,29,39,41,43,47,46,48,52,53,54	3.30	0.40	11.67	-1.00	-5.55	-2.32	4.55	-2.12	-3.27	4.35	-0.29	0.11	11.53	15.45	2.45	-1.54	-2.17	**35.5**
4688	5221	2,5,19,21,28,34,35,37,42,46,48,51	1.55	0.14	10.70	-1.47	-12.46	3.68	-0.47	-2.15	2.99	4.93	-0.57	7.74	12.12	5.24	-0.33	2.28	1.66	**35.6**
4689	3659	2,4,3,6,9,11,17,19,22,25,29,39,41,40,42,46,48,51	4.22	0.66	14.43	1.15	-9.40	-1.46	5.98	-3.23	-3.76	4.18	-0.02	2.02	15.68	9.19	-0.33	-1.54	-2.17	**35.6**
4690	2065	1,6,9,11,13,16,18,19,22,25,29,36,35,37,40,43,47,46,48,51	3.95	0.92	8.15	2.80	-5.15	2.82	3.11	-3.40	-3.64	-3.65	1.37	2.02	12.14	15.45	2.45	-1.54	-2.17	**35.6**
4691	2093	1,6,9,11,13,16,18,21,27,26,30,32,46,47,50,54	3.33	1.70	2.89	-2.89	2.58	4.54	4.55	-3.74	6.97	-3.61	1.43	-1.80	9.47	2.61	2.45	2.28	2.94	**35.7**
4692	3944	2,4,7,11,13,16,18,19,22,25,29,39,41,43,47,46,48,52,53,54	3.04	0.40	11.55	-0.71	-5.10	-3.18	5.26	2.28	-2.96	4.30	-0.44	0.11	11.22	16.77	-3.11	-1.54	-2.17	**35.7**
4693	3655	2,4,3,6,9,11,17,19,22,25,29,36,38,43,47,46,48,51	3.63	0.66	7.78	3.27	-2.51	1.11	3.83	-2.33	-2.35	-3.55	1.26	2.02	11.41	9.19	-0.33	-1.54	4.21	**35.8**
4694	3296	2,4,3,6,9,11,13,16,18,19,22,24,29,36,38,40,42,46,48,52,53,54	3.51	1.70	5.55	3.31	-0.25	-0.60	1.68	-1.71	-0.11	-4.16	1.35	0.11	7.93	15.12	-0.33	-1.54	4.21	**35.8**
4695	1224	1,3,7,9,8,14,30,31,34,36,39,41,43,47,46,48,52,53,54	6.40	-0.90	19.85	5.68	-2.83	-1.46	7.41	-0.77	-13.99	11.93	0.62	2.02	13.38	-8.92	1.06	-1.54	-2.17	**35.8**
4696	3921	2,4,7,11,13,16,18,19,22,25,29,36,35,37,40,43,47,46,48,51	3.69	0.92	8.03	3.10	-4.70	1.97	3.83	1.00	-3.33	-3.70	1.22	2.02	11.83	16.77	-3.11	-1.54	-2.17	**35.8**
4697	622	1,3,7,9,10,12,14,30,31,34,36,39,41,43,50,54	3.73	-0.64	6.42	5.49	3.71	0.25	3.83	1.22	-2.44	14.74	-1.20	-1.80	5.86	-0.69	1.06	-1.54	-2.17	**35.8**
4698	3949	2,4,7,11,13,16,18,21,27,26,30,32,46,47,50,54	3.07	1.70	2.77	-2.60	3.02	3.68	5.26	0.67	7.28	-3.67	1.28	-1.80	9.16	3.92	-3.11	2.28	2.94	**35.9**
4699	979	1,3,7,9,10,16,18,19,22,24,29,36,35,37,42,46,48,51	4.08	0.40	7.69	2.60	-7.25	1.11	2.40	-3.65	-2.65	-4.05	1.47	2.02	11.37	23.02	1.06	-1.54	-2.17	**35.9**
4700	1395	1,6,10,13,17,19,22,24,29,36,38,40,42,46,48,51	4.04	0.14	7.45	2.70	-5.10	1.97	2.40	-6.98	-1.70	-3.90	1.51	2.02	10.82	15.45	2.45	-1.54	4.21	**35.9**
4701	1014	1,3,7,9,10,16,18,19,22,25,29,36,38,40,42,46,48,52,53,54	2.58	0.40	4.36	-1.65	0.69	0.25	2.40	-1.38	-2.62	-3.57	0.75	0.11	6.55	23.35	1.06	-1.54	4.21	**36.0**
4702	4543	2,4,7,9,10,13,17,19,22,25,29,39,41,40,42,46,48,51	4.07	0.66	13.77	-0.89	-9.67	-1.46	5.98	-3.38	-4.53	4.39	-0.22	2.02	14.97	17.10	-3.11	-1.54	-2.17	**36.0**
4703	5280	2,5,22,25,29,36,35,37,40,43,50,54	-0.86	0.66	8.18	-12.61	-9.61	1.97	-3.34	-2.78	5.81	9.11	-2.61	3.93	13.15	21.38	-0.33	2.28	1.66	**36.0**
4704	237	1,3,7,11,13,16,18,21,28,31,30,32,46,47,50,54	2.92	1.18	2.30	-2.80	3.81	4.54	5.26	1.07	5.87	-2.23	1.06	-1.80	8.49	3.92	1.06	-1.54	2.94	**36.1**
4705	5185	2,5,19,21,27,26,31,34,38,41,44,55	-0.06	0.40	7.67	-10.35	-3.59	1.97	-4.06	-0.68	7.99	4.62	-1.41	3.93	10.63	5.24	-0.33	6.10	8.05	**36.1**
4706	4539	2,4,7,9,10,13,17,19,22,25,29,36,38,43,47,46,48,51	3.47	0.66	7.12	1.23	-2.77	1.11	3.83	-2.48	-3.11	-3.34	1.06	2.02	10.70	17.10	-3.11	-1.54	4.21	**36.1**
4707	1121	1,3,7,9,10,16,20,23,26,30,32,46,47,50,54	2.95	0.66	0.95	-3.62	2.19	2.82	3.11	-1.13	8.35	-0.74	0.76	-1.80	5.89	9.52	1.06	2.28	2.94	**36.2**
4708	5164	2,5,19,21,27,26,31,34,35,37,40,43,47,46,48,52,53,54	1.47	1.96	8.91	-3.14	-10.58	3.68	-1.19	-1.44	4.89	3.81	-0.52	5.84	9.84	5.24	-0.33	6.10	1.66	**36.2**
4709	3306	2,4,3,6,9,11,13,16,18,19,22,24,29,39,41,40,42,46,48,52,53,54	4.12	1.44	12.21	1.59	-6.93	-3.18	3.83	-2.61	-1.52	3.77	0.08	0.11	12.24	15.12	-0.33	-1.54	-2.17	**36.2**
4710	2397	1,6,9,11,17,19,22,25,29,36,38,40,42,46,48,51	3.44	-0.12	7.68	2.05	-3.23	1.97	3.83	-1.93	-2.35	-3.77	1.24	2.02	11.15	9.19	2.45	-1.54	4.21	**36.3**
4711	169	1,3,7,11,13,16,18,19,22,25,29,36,35,37,42,46,48,51	3.36	0.14	7.82	2.36	-5.15	1.11	3.83	1.40	-3.33	-3.93	1.22	2.02	11.35	16.77	1.06	-1.54	-2.17	**36.3**
4712	5133	2,5,19,18,21,28,34,35,37,42,46,48	1.67	0.40	10.79	-1.47	-12.46	3.68	-0.47	-2.15	2.99	4.93	-0.56	7.74	12.37	5.24	-0.33	2.28	1.66	**36.3**
4713	2661	2,4,3,6,10,13,17,19,22,24,29,39,41,43,47,46,48,51	4.82	1.18	14.22	2.20	-11.06	-1.46	4.55	-8.28	-3.12	4.25	0.26	2.02	15.39	15.45	-0.33	-1.54	-2.17	**36.4**
4714	3302	2,4,3,6,9,11,13,16,18,19,22,24,29,36,38,43,47,46,48,52,53,54	3.52	1.44	5.56	3.70	-0.03	-0.60	1.68	-1.71	-0.11	-3.96	1.36	0.11	7.97	15.12	-0.33	-1.54	4.21	**36.4**
4715	1405	1,6,10,13,17,19,22,24,29,39,41,40,42,46,48,51	4.64	-0.12	14.11	0.98	-11.78	-0.60	4.55	-7.88	-3.12	4.03	0.24	2.02	15.13	15.45	2.45	-1.54	-2.17	**36.4**
4716	3	1,3,7,11,13,12,14,30,31,34,35,37,40,43,47,46,48,51	4.11	-1.15	8.23	14.15	0.62	3.68	5.26	4.90	-4.56	1.73	1.67	2.02	5.71	-7.27	1.06	-1.54	-2.17	**36.4**
4717	1024	1,3,7,9,10,16,18,19,22,25,29,39,41,40,42,46,48,52,53,54	3.18	0.14	11.02	-3.36	-5.99	-2.32	4.55	-2.27	-4.04	4.36	-0.52	0.11	10.86	23.35	1.06	-1.54	-2.17	**36.4**
4718	4253	2,4,7,11,17,19,22,25,29,36,38,40,42,46,48,51	3.19	-0.12	7.56	2.34	-2.78	1.11	4.55	2.47	-2.03	-3.83	1.09	2.02	10.84	10.51	-3.11	-1.54	4.21	**36.5**
4719	1917	1,6,9,11,13,12,14,30,31,34,36,39,41,43,47,49,53,54	4.15	-0.64	7.21	8.04	4.26	0.25	3.11	3.46	-4.01	14.27	-0.74	0.11	6.89	-8.59	2.45	-1.54	-2.17	**36.5**
4720	1401	1,6,10,13,17,19,22,24,29,36,38,43,47,46,48,51	4.04	-0.12	7.47	3.10	-4.88	1.97	2.40	-6.98	-1.70	-3.70	1.51	2.02	10.86	15.45	2.45	-1.54	4.21	**36.5**
4721	1020	1,3,7,9,10,16,18,19,22,25,29,36,38,43,47,46,48,52,53,54	2.58	0.14	4.38	-1.25	0.91	0.25	2.40	-1.38	-2.62	-3.37	0.75	0.11	6.58	23.35	1.06	-1.54	4.21	**36.6**
4722	3165	2,4,3,6,9,11,13,12,14,30,31,34,36,39,41,40,42,47,50,54	4.45	0.14	7.44	8.73	4.69	1.11	3.83	0.97	-1.68	14.87	-0.91	-1.80	7.39	-8.59	-0.33	-1.54	-2.17	**36.6**
4723	3773	2,4,7,11,13,12,14,30,31,34,36,39,41,43,47,49,53,54	3.89	-0.64	7.09	8.34	4.71	-0.60	3.83	7.86	-3.69	14.22	-0.89	0.11	6.58	-7.27	-3.11	-1.54	-2.17	**36.7**
4724	3663	2,4,3,6,9,11,17,19,22,25,29,39,41,43,47,46,48,51	4.23	0.92	14.44	1.55	-9.18	-1.46	5.98	-3.23	-3.76	4.38	-0.01	2.02	15.71	9.19	-0.33	-1.54	-2.17	**36.7**
4725	2407	1,6,9,11,17,19,22,25,29,39,41,40,42,46,48,51	4.05	-0.38	14.34	0.33	-9.91	-0.60	5.98	-2.83	-3.76	4.15	-0.03	2.02	15.45	9.19	2.45	-1.54	-2.17	**36.7**
4726	5283	2,5,22,25,29,36,35,37,42,47,50,54	-0.83	0.40	8.20	-12.16	-9.36	1.97	-3.34	-2.78	5.81	9.42	-2.59	3.93	13.20	21.38	-0.33	2.28	1.66	**36.9**
4727	2403	1,6,9,11,17,19,22,25,29,36,38,43,47,46,48,51	3.45	-0.38	7.69	2.44	-3.01	1.97	3.83	-1.93	-2.35	-3.58	1.24	2.02	11.18	9.19	2.45	-1.54	4.21	**36.9**
4728	2044	1,6,9,11,13,16,18,19,22,24,29,36,38,40,42,46,48,52,53,54	3.34	0.66	5.46	2.48	-0.76	0.25	1.68	-1.31	-0.11	-4.19	1.34	0.11	7.71	15.12	2.45	-1.54	4.21	**36.9**
4729	325	1,3,7,11,13,16,20,23,27,28,31,30,32,46,47,50,54	2.98	0.66	1.22	-1.57	3.64	2.82	3.83	3.83	8.01	1.18	0.61	-1.80	6.09	2.94	1.06	-1.54	2.94	**36.9**
4730	282	1,3,7,11,13,16,20,23,26,30,32,46,49,53,54	2.75	0.40	1.39	-1.96	2.47	1.11	3.11	5.91	7.10	-1.80	1.03	0.11	6.07	2.94	1.06	2.28	2.94	**36.9**

Westar Energy- JEC to East Manhattan
345/230 kV Transmission Line Project
Table F-3: Weighted, Sorted Z-scores for All Routes

Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
4731	4263	2,4,7,11,17,19,22,25,29,39,41,40,42,46,48,51	3.79	-0.38	14.22	0.63	-9.46	-1.46	6.70	1.58	-3.45	4.10	-0.18	2.02	15.14	10.51	-3.11	-1.54	-2.17	**36.9**
4732	5303	2,5,22,25,29,39,44,55	-3.33	-1.15	17.35	-15.44	-13.23	-2.32	-4.77	-2.92	4.67	16.97	-4.10	3.93	16.33	21.38	-0.33	2.28	1.66	**37.0**
4733	4259	2,4,7,11,17,19,22,25,29,36,38,43,47,46,48,51	3.19	-0.38	7.57	2.74	-2.56	1.11	4.55	2.47	-2.03	-3.63	1.09	2.02	10.87	10.51	-3.11	-1.54	4.21	**37.1**
4734	3900	2,4,7,11,13,16,18,19,22,24,29,36,38,40,42,46,48,52,53,54	3.08	0.66	5.34	2.78	-0.31	-0.60	2.40	3.09	0.21	-4.24	1.19	0.11	7.40	16.44	-3.11	-1.54	4.21	**37.1**
4735	5097	2,5,19,18,21,27,26,31,34,38,41,44,55	0.06	0.92	7.76	-10.35	-3.59	1.97	-4.06	-0.68	7.99	4.62	-1.40	3.93	10.88	5.24	-0.33	6.10	8.05	**37.1**
4736	4547	2,4,7,9,10,13,17,19,22,25,29,39,41,43,47,46,48,51	4.08	0.92	13.78	-0.49	-9.45	-1.46	5.98	-3.38	-4.53	4.59	-0.21	2.02	15.01	17.10	-3.11	-1.54	-2.17	**37.1**
4737	3119	2,4,3,6,8,14,30,31,34,36,39,41,40,42,46,48,51	7.40	-0.64	22.57	8.09	-5.44	-0.60	7.41	-6.69	-14.82	11.84	1.00	3.93	17.39	-10.24	-0.33	-1.54	-2.17	**37.1**
4738	5076	2,5,19,18,21,27,26,31,34,35,37,40,43,47,46,48,52,53,54	1.59	2.48	9.00	-3.14	-10.58	3.68	-1.19	-1.44	4.89	3.81	-0.51	5.84	10.10	5.24	-0.33	6.10	1.66	**37.2**
4739	5254	2,5,22,24,29,36,35,37,42,49,53,54	-0.31	0.40	8.51	-10.25	-11.17	0.25	-4.77	-0.79	5.24	8.24	-2.04	5.84	13.40	21.05	-0.33	2.28	1.66	**37.2**
4740	4381	2,4,7,9,10,12,14,30,31,34,38,40,42,46,48,51	3.84	-1.41	7.23	12.02	3.79	1.97	4.55	1.01	-4.34	1.92	1.45	2.02	4.43	-0.69	-3.11	-1.54	4.21	**37.3**
4741	3310	2,4,3,6,9,11,13,16,18,19,22,24,29,39,41,43,47,46,48,52,53,54	4.12	1.70	12.22	1.99	-6.71	-3.18	3.83	-2.61	-1.52	3.96	0.09	0.11	12.28	15.12	-0.33	-1.54	-2.17	**37.4**
4742	2054	1,6,9,11,13,16,18,19,22,24,29,39,41,40,42,46,48,52,53,54	3.94	0.40	12.12	0.77	-7.43	-2.32	3.83	-2.21	-1.52	3.74	0.07	0.11	12.02	15.12	2.45	-1.54	-2.17	**37.4**
4743	304	1,3,7,11,13,16,20,23,26,31,34,36,39,45,55	1.49	0.14	6.52	4.76	-1.60	1.11	-1.19	8.38	8.18	11.96	-1.01	-1.80	3.60	-4.31	1.06	2.28	-2.17	**37.4**
4744	3287	2,4,3,6,9,11,13,16,18,19,22,24,29,36,35,37,40,43,47,46,48,51	4.77	2.22	8.70	5.79	-6.31	1.97	2.40	-3.89	-1.89	-4.03	1.75	2.02	12.89	15.12	-0.33	-1.54	-2.17	**37.5**
4745	2547	2,4,3,6,10,12,14,32,48,51	3.22	-1.67	14.80	0.81	-4.67	2.82	8.13	-7.65	-0.58	5.19	0.04	-1.80	14.55	3.26	-0.33	-1.54	2.94	**37.5**
4746	1409	1,6,10,13,17,19,22,24,29,39,41,43,47,46,48,51	4.64	0.14	14.13	1.38	-11.56	-0.60	4.55	-7.88	-3.12	4.22	0.24	2.02	15.16	15.45	2.45	-1.54	-2.17	**37.5**
4747	2050	1,6,9,11,13,16,18,19,22,24,29,36,38,43,47,46,48,52,53,54	3.34	0.40	5.47	2.88	-0.54	0.25	1.68	-1.31	-0.11	-3.99	1.34	0.11	7.74	15.12	2.45	-1.54	4.21	**37.5**
4748	3910	2,4,7,11,13,16,18,19,22,24,29,39,41,40,42,46,48,52,53,54	3.68	0.40	12.00	1.06	-6.98	-3.18	4.55	2.19	-1.20	3.68	-0.08	0.11	11.71	16.44	-3.11	-1.54	-2.17	**37.6**
4749	1028	1,3,7,9,10,16,18,19,22,25,29,39,41,43,47,46,48,52,53,54	3.19	0.40	11.04	-2.97	-5.77	-2.32	4.55	-2.27	-4.04	4.56	-0.52	0.11	10.89	23.35	1.06	-1.54	-2.17	**37.6**
4750	1005	1,3,7,9,10,16,18,19,22,25,29,36,35,37,40,43,47,46,48,51	3.84	0.92	7.52	0.84	-5.37	2.82	3.11	-3.56	-4.41	-3.44	1.14	2.02	11.51	23.35	1.06	-1.54	-2.17	**37.6**
4751	618	1,3,7,9,10,12,14,30,31,34,36,39,41,40,42,49,53,54	4.03	-0.64	6.56	5.68	3.82	0.25	3.11	3.30	-4.77	14.28	-0.97	0.11	6.21	-0.69	1.06	-1.54	-2.17	**37.7**
4752	1033	1,3,7,9,10,16,18,21,27,26,30,32,46,47,50,54	3.22	1.70	2.26	-4.86	2.36	4.54	4.55	-3.89	6.21	-3.41	1.21	-1.80	8.83	10.51	1.06	2.28	2.94	**37.7**
4753	3906	2,4,7,11,13,16,18,19,22,24,29,36,38,43,47,46,48,52,53,54	3.09	0.40	5.35	3.18	-0.09	-0.60	2.40	3.09	0.21	-4.05	1.19	0.11	7.43	16.44	-3.11	-1.54	4.21	**37.7**
4754	1913	1,6,9,11,13,12,14,30,31,34,36,39,41,40,42,47,50,54	4.27	-0.90	7.35	7.90	4.18	1.97	3.83	1.37	-1.68	14.84	-0.92	-1.80	7.17	-8.59	2.45	-1.54	-2.17	**37.7**
4755	2411	1,6,9,11,17,19,22,25,29,39,41,43,47,46,48,51	4.05	-0.12	14.35	0.73	-9.69	-0.60	5.98	-2.83	-3.76	4.35	-0.02	2.02	15.49	9.19	2.45	-1.54	-2.17	**37.9**
4756	3769	2,4,7,11,13,12,14,30,31,34,36,39,41,40,42,47,50,54	4.02	-0.90	7.23	8.20	4.63	1.11	4.55	5.78	-1.37	14.79	-1.07	-1.80	6.86	-7.27	-3.11	-1.54	-2.17	**37.9**
4757	4387	2,4,7,9,10,12,14,30,31,34,38,43,47,46,48,51	3.85	-1.67	7.25	12.42	4.01	1.97	4.55	1.01	-4.34	2.12	1.45	2.02	4.46	-0.69	-3.11	-1.54	4.21	**38.0**
4758	2913	2,4,3,6,10,16,18,19,22,25,29,36,38,40,42,46,48,51	3.59	0.40	7.09	1.15	-1.71	1.11	2.40	-7.29	-3.46	-3.45	1.13	2.02	10.59	22.04	-0.33	-1.54	4.21	**38.0**
4759	4267	2,4,7,11,17,19,22,25,29,39,41,43,47,46,48,51	3.80	-0.12	14.23	1.03	-9.24	-1.46	6.70	1.58	-3.45	4.30	-0.18	2.02	15.18	10.51	-3.11	-1.54	-2.17	**38.1**
4760	1249	1,3,7,9,8,14,32,46,47,50,54	4.40	-1.41	15.43	-2.73	2.33	1.97	8.85	-3.73	-5.64	4.53	0.79	0.11	14.40	-3.65	1.06	-1.54	2.94	**38.1**
4761	3619	2,4,3,6,9,11,17,19,22,24,29,36,38,40,42,46,48,51	4.26	1.18	8.23	5.04	-4.39	1.11	3.11	-2.42	-0.59	-4.16	1.62	2.02	11.89	8.86	-0.33	-1.54	4.21	**38.1**
4762	3123	2,4,3,6,8,14,30,31,34,36,39,41,43,47,46,48,51	7.41	-0.38	22.58	8.48	-5.22	-0.60	7.41	-6.69	-14.82	12.04	1.00	3.93	17.42	-10.24	-0.33	-1.54	-2.17	**38.3**
4763	1867	1,6,8,14,30,31,34,36,39,41,40,42,46,48,51	7.23	-1.67	22.48	7.26	-5.95	0.25	7.41	-6.29	-14.82	11.81	0.99	3.93	17.16	-10.24	2.45	-1.54	-2.17	**38.3**
4764	5236	2,5,19,21,28,34,38,40,42,46,48,52,53,54	0.69	0.14	7.84	-3.56	-6.19	2.82	-1.19	0.03	4.77	5.01	-0.93	5.84	7.82	5.24	-0.33	2.28	8.05	**38.3**
4765	44	1,3,7,11,13,12,14,32,48,52,53,54	2.13	-2.19	12.66	-0.08	-1.85	1.97	8.85	3.22	1.33	4.78	-0.24	-3.71	11.01	-2.01	1.06	-1.54	2.94	**38.3**
4766	5197	2,5,19,21,27,26,33,37,42,46,48,51	1.85	0.14	11.21	-1.72	-15.28	3.68	0.25	-2.15	3.19	3.72	-0.29	7.74	13.36	5.24	-0.33	6.10	1.66	**38.4**
4767	2923	2,4,3,6,10,16,18,19,22,25,29,39,41,40,42,46,48,51	4.19	0.14	13.75	-0.56	-8.38	-1.46	4.55	-8.19	-4.87	4.47	-0.14	2.02	14.90	22.04	-0.33	-1.54	-2.17	**38.4**
4768	194	1,3,7,11,13,16,18,21,27,26,30,32,46,49,53,54	3.01	1.44	2.70	-3.20	2.64	2.82	4.55	3.15	4.96	-4.46	1.47	0.11	9.02	3.92	1.06	2.28	2.94	**38.4**
4769	4503	2,4,7,9,10,13,17,19,22,24,29,36,38,40,42,46,48,51	4.11	1.18	7.57	2.99	-4.65	1.11	3.11	-2.58	-1.36	-3.95	1.42	2.02	11.19	16.77	-3.11	-1.54	4.21	**38.5**
4770	2058	1,6,9,11,13,16,18,19,22,24,29,39,41,43,47,46,48,52,53,54	3.94	0.66	12.13	1.16	-7.21	-2.32	3.83	-2.21	-1.52	3.93	0.07	0.11	12.05	15.12	2.45	-1.54	-2.17	**38.5**
4771	3629	2,4,3,6,9,11,17,19,22,24,29,39,41,40,42,46,48,51	4.87	0.92	14.89	3.32	-11.07	-1.46	5.26	-3.32	-2.01	3.77	0.35	2.02	16.20	8.86	-0.33	-1.54	-2.17	**38.6**
4772	2919	2,4,3,6,10,16,18,19,22,25,29,36,38,43,47,46,48,51	3.60	0.14	7.11	1.55	-1.49	1.11	2.40	-7.29	-3.46	-3.26	1.14	2.02	10.63	22.04	-0.33	-1.54	4.21	**38.6**
4773	2035	1,6,9,11,13,16,18,19,22,24,29,36,35,37,40,43,47,46,48,51	4.59	1.18	8.61	4.97	-6.81	2.82	2.40	-3.49	-1.89	-4.06	1.73	2.02	12.67	15.12	2.45	-1.54	-2.17	**38.6**
4774	5207	2,5,19,21,28,31,33,37,40,43,47,46,48,51	2.03	0.92	10.95	-1.19	-14.03	5.39	0.25	-2.15	1.78	5.38	-0.51	7.74	13.18	5.24	-0.33	2.28	1.66	**38.6**
4775	1295	1,6,10,12,14,32,48,51	3.04	-2.71	14.71	-0.02	-5.18	3.68	8.13	-7.25	-0.58	5.16	0.02	-1.80	14.32	3.26	2.45	-1.54	2.94	**38.6**
4776	18	1,3,7,11,13,12,14,30,31,34,36,39,41,43,50,54	3.66	-1.15	7.02	7.41	4.14	0.25	4.55	6.18	-1.37	14.45	-1.09	-1.80	6.36	-7.27	1.06	-1.54	-2.17	**38.7**
4777	3914	2,4,7,11,13,16,18,19,22,24,29,39,41,43,47,46,48,52,53,54	3.69	0.66	12.01	1.46	-6.76	-3.18	4.55	2.19	-1.20	3.88	-0.08	0.11	11.74	16.44	-3.11	-1.54	-2.17	**38.7**
4778	3625	2,4,3,6,9,11,17,19,22,24,29,36,38,43,47,46,48,51	4.27	0.92	8.25	5.43	-4.17	1.11	3.11	-2.42	-0.59	-3.96	1.62	2.02	11.93	8.86	-0.33	-1.54	4.21	**38.7**
4779	3891	2,4,7,11,13,16,18,19,22,24,29,36,35,37,40,43,47,46,48,51	4.34	1.18	8.49	5.26	-6.36	1.97	3.11	0.91	-1.57	-4.12	1.58	2.02	12.36	16.44	-3.11	-1.54	-2.17	**38.8**
4780	1210	1,3,7,9,8,14,30,31,34,35,37,40,41,45,55	6.64	-1.15	16.89	2.45	1.20	3.68	5.98	0.25	-6.77	5.68	1.61	0.11	13.85	-8.92	1.06	-1.54	-2.17	**38.8**
4781	3173	2,4,3,6,9,11,13,12,14,30,31,34,38,40,42,46,48,51	4.20	-0.90	8.04	14.47	4.27	1.97	4.55	1.16	-3.58	1.71	1.72	2.02	5.47	-8.59	-0.33	-1.54	4.21	**38.9**
4782	216	1,3,7,11,13,16,18,21,27,26,31,34,36,39,45,55	1.75	1.18	7.83	3.52	-1.43	2.82	0.25	5.62	6.04	9.30	-0.57	-1.80	6.54	-3.32	1.06	2.28	-2.17	**38.9**
4783	984	1,3,7,9,10,16,18,19,22,24,29,36,38,40,42,46,48,52,53,54	3.22	0.66	4.83	0.52	-0.97	0.25	1.68	-1.47	-0.87	-3.98	1.11	0.11	7.07	23.02	1.06	-1.54	4.21	**38.9**
4784	5242	2,5,19,21,28,34,38,43,47,46,48,52,53,54	0.69	-0.12	7.86	-3.16	-5.97	2.82	-1.19	0.03	4.77	5.20	-0.93	5.84	7.86	5.24	-0.33	2.28	8.05	**38.9**
4785	4513	2,4,7,9,10,13,17,19,22,24,29,39,41,40,42,46,48,51	4.71	0.92	14.23	1.28	-11.33	-1.46	5.26	-3.47	-2.77	3.97	0.15	2.02	15.50	16.77	-3.11	-1.54	-2.17	**39.0**

Table F-3: Weighted, Sorted Z-scores for All Routes

		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
4786	5250	2,5,22,24,29,36,35,37,40,43,50,54	-0.21	0.92	8.65	-10.44	-11.27	1.97	-4.06	-2.87	7.57	8.70	-2.24	3.93	13.67	21.05	-0.33	2.28	1.66	**39.0**
4787	621	1,3,7,9,10,12,14,30,31,34,36,39,41,43,47,49,53,54	4.03	-0.12	6.58	6.08	4.04	0.25	3.11	3.30	-4.77	14.48	-0.96	0.11	6.25	-0.69	1.06	-1.54	-2.17	**39.0**
4788	2696	2,4,3,6,10,13,17,19,22,25,29,39,45,55	2.42	0.40	13.33	-3.85	-5.76	0.25	2.40	-5.88	2.72	10.27	-1.22	-1.80	14.08	15.78	-0.33	-1.54	-2.17	**39.1**
4789	1661	1,6,10,16,18,19,22,25,29,36,38,40,42,46,48,51	3.41	-0.64	7.00	0.33	-2.21	1.97	2.40	-6.89	-3.46	-3.48	1.12	2.02	10.37	22.04	2.45	-1.54	4.21	**39.1**
4790	4509	2,4,7,9,10,13,17,19,22,24,29,36,38,43,47,46,48,51	4.12	0.92	7.59	3.39	-4.43	1.11	3.11	-2.58	-1.36	-3.76	1.42	2.02	11.22	16.77	-3.11	-1.54	4.21	**39.1**
4791	5109	2,5,19,18,21,27,26,33,37,42,46,48,51	1.98	0.40	11.30	-1.72	-15.28	3.68	0.25	-2.15	3.19	3.72	-0.28	7.74	13.62	5.24	-0.33	6.10	1.66	**39.1**
4792	5279	2,5,22,25,29,36,35,37,40,43,47,49,53,54	-0.56	1.18	8.34	-12.02	-9.28	1.97	-4.06	-0.70	3.49	8.85	-2.37	5.84	13.54	21.38	-0.33	2.28	1.66	**39.2**
4793	2367	1,6,9,11,17,19,22,24,29,36,38,40,42,46,48,51	4.09	0.14	8.14	4.21	-4.89	1.97	3.11	-2.02	-0.59	-4.19	1.60	2.02	11.67	8.86	2.45	-1.54	4.21	**39.2**
4794	139	1,3,7,11,13,16,18,19,22,24,29,36,35,37,42,46,48,51	4.01	0.40	8.29	4.52	-6.82	1.11	3.11	1.31	-1.57	-4.34	1.58	2.02	11.87	16.44	1.06	-1.54	-2.17	**39.3**
4795	174	1,3,7,11,13,16,18,19,22,25,29,36,38,40,42,46,48,52,53,54	2.50	0.40	4.96	0.27	1.12	0.25	3.11	3.58	-1.55	-3.86	0.86	0.11	7.05	16.77	1.06	-1.54	4.21	**39.3**
4796	5148	2,5,19,18,21,28,34,38,40,42,46,48,52,53,54	0.81	0.66	7.93	-3.56	-6.19	2.82	-1.19	0.03	4.77	5.01	-0.92	5.84	8.08	5.24	-0.33	2.28	8.05	**39.3**
4797	5119	2,5,19,18,21,28,31,33,37,40,43,47,46,48,51	2.15	1.18	11.04	-1.19	-14.03	5.39	0.25	-2.15	1.78	5.38	-0.50	7.74	13.44	5.24	-0.33	2.28	1.66	**39.3**
4798	994	1,3,7,9,10,16,18,19,22,24,29,39,41,40,42,46,48,52,53,54	3.83	0.40	11.49	-1.20	-7.65	-2.32	3.83	-2.37	-2.28	3.94	-0.16	0.11	11.38	23.02	1.06	-1.54	-2.17	**39.4**
4799	1871	1,6,8,14,30,31,34,36,39,41,43,47,46,48,51	7.23	-1.41	22.50	7.66	-5.73	0.25	7.41	-6.29	-14.82	12.01	0.99	3.93	17.20	-10.24	2.45	-1.54	-2.17	**39.4**
4800	4223	2,4,7,11,17,19,22,24,29,36,38,40,42,46,48,51	3.83	0.14	8.02	4.51	-4.45	1.11	3.83	2.38	-0.28	-4.24	1.45	2.02	11.36	10.18	-3.11	-1.54	4.21	**39.4**
4801	3179	2,4,3,6,9,11,13,12,14,30,31,34,38,43,47,46,48,51	4.20	-1.15	8.05	14.87	4.49	1.97	4.55	1.16	-3.58	1.91	1.73	2.02	5.50	-8.59	-0.33	-1.54	4.21	**39.5**
4802	5179	2,5,19,21,27,26,31,34,36,39,44,55	-0.81	0.66	13.35	-8.92	-10.27	1.11	-4.77	-1.58	6.57	16.39	-3.12	3.93	14.30	5.24	-0.33	6.10	1.66	**39.5**
4803	990	1,3,7,9,10,16,18,19,22,24,29,36,38,43,47,46,48,52,53,54	3.23	0.40	4.84	0.92	-0.76	0.25	1.68	-1.47	-0.87	-3.79	1.12	0.11	7.11	23.02	1.06	-1.54	4.21	**39.5**
4804	281	1,3,7,11,13,16,20,23,26,30,32,46,47,50,54	2.88	0.66	1.55	-1.70	2.62	2.82	3.83	3.83	9.43	-1.03	0.87	-1.80	6.39	2.94	1.06	2.28	2.94	**39.6**
4805	2927	2,4,3,6,10,16,18,19,22,25,29,39,41,43,47,46,48,51	4.20	0.40	13.77	-0.16	-8.16	-1.46	4.55	-8.19	-4.87	4.67	-0.13	2.02	14.93	22.04	-0.33	-1.54	-2.17	**39.6**
4806	1671	1,6,10,16,18,19,22,25,29,39,41,40,42,46,48,51	4.02	-0.90	13.66	-1.39	-8.89	-0.60	4.55	-7.79	-4.87	4.45	-0.15	2.02	14.67	22.04	2.45	-1.54	-2.17	**39.6**
4807	3633	2,4,3,6,9,11,17,19,22,24,29,39,41,43,47,46,48,51	4.87	1.18	14.91	3.72	-10.85	-1.46	5.26	-3.32	-2.01	3.96	0.35	2.02	16.24	8.86	-0.33	-1.54	-2.17	**39.7**
4808	2377	1,6,9,11,17,19,22,24,29,39,41,40,42,46,48,51	4.69	-0.12	14.80	2.50	-11.57	-0.60	5.26	-2.92	-2.01	3.74	0.34	2.02	15.98	8.86	2.45	-1.54	-2.17	**39.7**
4809	1667	1,6,10,16,18,19,22,25,29,36,38,43,47,46,48,51	3.42	-0.90	7.02	0.73	-1.99	1.97	2.40	-6.89	-3.46	-3.29	1.12	2.02	10.40	22.04	2.45	-1.54	4.21	**39.7**
4810	184	1,3,7,11,13,16,18,19,22,25,29,39,41,40,42,46,48,52,53,54	3.11	0.14	11.62	-1.44	-5.56	-2.32	5.26	2.68	-2.96	4.07	-0.41	0.11	11.36	16.77	1.06	-1.54	-2.17	**39.8**
4811	5253	2,5,22,24,29,36,35,37,42,47,50,54	-0.18	0.66	8.66	-9.99	-11.03	1.97	-4.06	-2.87	7.57	9.00	-2.22	3.93	13.72	21.05	-0.33	2.28	1.66	**39.8**
4812	2373	1,6,9,11,17,19,22,24,29,36,38,43,47,46,48,51	4.09	-0.12	8.16	4.61	-4.67	1.97	3.11	-2.02	-0.59	-3.99	1.61	2.02	11.71	8.86	2.45	-1.54	4.21	**39.9**
4813	4233	2,4,7,11,17,19,22,24,29,39,41,40,42,46,48,51	4.43	-0.12	14.68	2.79	-11.12	-1.46	5.98	1.48	-1.69	3.68	0.18	2.02	15.67	10.18	-3.11	-1.54	-2.17	**39.9**
4814	5273	2,5,22,24,29,39,44,55	-2.69	-0.90	17.81	-13.27	-14.89	-2.32	-5.49	-3.01	6.43	16.55	-3.74	3.93	16.86	21.05	-0.33	2.28	1.66	**39.9**
4815	180	1,3,7,11,13,16,18,19,22,25,29,36,38,43,47,46,48,52,53,54	2.51	0.14	4.98	0.67	1.34	0.25	3.11	3.58	-1.55	-3.66	0.86	0.11	7.09	16.77	1.06	-1.54	4.21	**39.9**
4816	5154	2,5,19,18,21,28,34,38,43,47,46,48,52,53,54	0.82	0.40	7.95	-3.16	-5.97	2.82	-1.19	0.03	4.77	5.20	-0.91	5.84	8.12	5.24	-0.33	2.28	8.05	**39.9**
4817	1921	1,6,9,11,13,12,14,30,31,34,38,40,42,46,48,51	4.02	-1.93	7.95	13.65	3.77	2.82	4.55	1.56	-3.58	1.68	1.71	2.02	5.24	-8.59	2.45	-1.54	4.21	**40.0**
4818	4229	2,4,7,11,17,19,22,24,29,36,38,43,47,46,48,51	3.84	-0.12	8.04	4.91	-4.23	1.11	3.83	2.38	-0.28	-4.05	1.46	2.02	11.40	10.18	-3.11	-1.54	4.21	**40.0**
4819	4517	2,4,7,9,10,13,17,19,22,24,29,39,41,43,47,46,48,51	4.72	1.18	14.25	1.68	-11.11	-1.46	5.26	-3.47	-2.77	4.17	0.15	2.02	15.53	16.77	-3.11	-1.54	-2.17	**40.1**
4820	3777	2,4,7,11,13,12,14,30,31,34,38,40,42,46,48,51	3.77	-1.93	7.83	13.94	4.22	1.97	5.26	5.97	-3.27	1.63	1.56	2.02	4.93	-7.27	-3.11	-1.54	4.21	**40.2**
4821	1444	1,6,10,13,17,19,22,25,29,39,45,55	2.24	-0.64	13.24	-4.68	-6.26	1.11	2.40	-5.48	2.72	10.24	-1.23	-1.80	13.86	15.78	2.45	-1.54	-2.17	**40.2**
4822	617	1,3,7,9,10,12,14,30,31,34,36,39,41,40,42,47,50,54	4.16	-0.38	6.72	5.94	3.96	1.97	3.83	1.22	-2.44	15.05	-1.15	-1.80	6.53	-0.69	1.06	-1.54	-2.17	**40.3**
4823	5217	2,5,19,21,28,34,35,37,40,43,47,46,48,51	1.94	0.92	11.00	-1.08	-12.24	5.39	-0.47	-2.15	2.99	5.13	-0.54	7.74	12.78	5.24	-0.33	2.28	1.66	**40.3**
4824	4975	2,4,7,9,8,14,30,31,34,36,39,41,40,42,46,48,51	7.30	-1.15	22.60	7.56	-5.50	-0.60	8.13	-1.88	-14.48	11.76	0.90	3.93	17.53	-8.92	-3.11	-1.54	-2.17	**40.3**
4825	14	1,3,7,11,13,12,14,30,31,34,36,39,41,40,42,49,53,54	3.95	-1.15	7.16	7.60	4.25	0.25	3.83	8.26	-3.69	13.99	-0.86	0.11	6.72	-7.27	1.06	-1.54	-2.17	**40.5**
4826	998	1,3,7,9,10,16,18,19,22,24,29,39,41,43,47,46,48,52,53,54	3.83	0.66	11.50	-0.80	-7.43	-2.32	3.83	-2.37	-2.28	4.14	-0.15	0.11	11.42	23.02	1.06	-1.54	-2.17	**40.5**
4827	5091	2,5,19,18,21,27,26,31,34,36,39,44,55	-0.69	1.18	13.44	-8.92	-10.27	1.11	-4.77	-1.58	6.57	16.39	-3.10	3.93	14.55	5.24	-0.33	6.10	1.66	**40.5**
4828	3134	2,4,3,6,8,14,30,31,34,38,41,45,55	6.40	-1.15	16.47	3.17	5.08	1.97	5.26	-3.48	-5.82	5.87	1.60	0.11	12.97	-10.24	-0.33	-1.54	4.21	**40.5**
4829	1927	1,6,9,11,13,12,14,30,31,34,38,43,47,46,48,51	4.03	-2.19	7.96	14.04	3.99	2.82	4.55	1.56	-3.58	1.88	1.71	2.02	5.28	-8.59	2.45	-1.54	4.21	**40.6**
4830	975	1,3,7,9,10,16,18,19,22,24,29,36,35,37,40,43,47,46,48,51	4.48	1.18	7.98	3.00	-7.03	2.82	2.40	-3.65	-2.65	-3.86	1.51	2.02	12.03	23.02	1.06	-1.54	-2.17	**40.6**
4831	1675	1,6,10,16,18,19,22,25,29,39,41,43,47,46,48,51	4.02	-0.64	13.68	-0.99	-8.67	-0.60	4.55	-7.79	-4.87	4.64	-0.14	2.02	14.71	22.04	2.45	-1.54	-2.17	**40.7**
4832	777	1,3,7,9,10,13,17,19,22,25,29,36,38,40,42,46,48,51	3.54	0.92	7.20	0.49	-3.23	1.97	3.83	-2.09	-3.11	-3.57	1.09	2.02	10.84	17.10	1.06	-1.54	4.21	**40.7**
4833	3783	2,4,7,11,13,12,14,30,31,34,38,43,47,46,48,51	3.77	-2.19	7.84	14.34	4.44	1.97	5.26	5.97	-3.27	1.83	1.56	2.02	4.97	-7.27	-3.11	-1.54	4.21	**40.8**
4834	2381	1,6,9,11,17,19,22,24,29,39,41,43,47,46,48,51	4.70	0.14	14.82	2.89	-11.35	-0.60	5.26	-2.92	-2.01	3.93	0.34	2.02	16.01	8.86	2.45	-1.54	-2.17	**40.8**
4835	188	1,3,7,11,13,16,18,19,22,25,29,39,41,43,47,46,48,52,53,54	3.11	0.40	11.64	-1.05	-5.34	-2.32	5.26	2.68	-2.96	4.27	-0.41	0.11	11.40	16.77	1.06	-1.54	-2.17	**40.9**
4836	2883	2,4,3,6,10,16,18,19,22,24,29,36,38,40,42,46,48,51	4.23	0.66	7.56	3.32	-3.37	1.11	1.68	-7.38	-1.70	-3.87	1.50	2.02	11.11	21.71	-0.33	-1.54	4.21	**40.9**
4837	165	1,3,7,11,13,16,18,19,22,25,29,36,35,37,40,43,47,46,48,51	3.76	0.92	8.12	2.76	-4.93	2.82	3.83	1.40	-3.33	-3.73	1.25	2.02	12.01	16.77	1.06	-1.54	-2.17	**41.0**
4838	5129	2,5,19,18,21,28,34,35,37,40,43,47,46,48,51	2.07	1.18	11.09	-1.08	-12.24	5.39	-0.47	-2.15	2.99	5.13	-0.52	7.74	13.04	5.24	-0.33	2.28	1.66	**41.0**
4839	4237	2,4,7,11,17,19,22,24,29,39,41,43,47,46,48,51	4.44	0.14	14.70	3.19	-10.90	-1.46	5.98	1.48	-1.69	3.88	0.19	2.02	15.71	10.18	-3.11	-1.54	-2.17	**41.0**
4840	193	1,3,7,11,13,16,18,21,27,26,30,32,46,47,50,54	3.14	1.70	2.86	-2.94	2.79	4.54	5.26	1.07	7.28	-3.70	1.31	-1.80	9.34	3.92	1.06	2.28	2.94	**41.1**

Table F-3: Weighted, Sorted Z-scores for All Routes

Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
4841	787	1,3,7,9,10,13,17,19,22,25,29,39,41,40,42,46,48,51	4.14	0.66	13.86	-1.23	-9.90	-0.60	5.98	-2.98	-4.53	4.36	-0.18	2.02	15.15	17.10	1.06	-1.54	-2.17	**41.2**
4842	4403	2,4,7,9,10,12,14,32,48,51	3.12	-1.67	14.83	0.28	-4.73	2.82	8.85	-2.84	-0.24	5.10	-0.07	-1.80	14.69	4.58	-3.11	-1.54	2.94	**41.2**
4843	783	1,3,7,9,10,13,17,19,22,25,29,36,38,43,47,46,48,51	3.54	0.66	7.21	0.88	-3.01	1.97	3.83	-2.09	-3.11	-3.37	1.09	2.02	10.88	17.10	1.06	-1.54	4.21	**41.3**
4844	2893	2,4,3,6,10,16,18,19,22,24,29,39,41,40,42,46,48,51	4.84	0.40	14.22	1.60	-10.04	-1.46	3.83	-8.28	-3.12	4.06	0.23	2.02	15.42	21.71	-0.33	-1.54	-2.17	**41.4**
4845	4979	2,4,7,9,8,14,30,31,34,36,39,41,43,47,46,48,51	7.31	-0.90	22.62	7.96	-5.28	-0.60	8.13	-1.88	-14.48	11.95	0.90	3.93	17.56	-8.92	-3.11	-1.54	-2.17	**41.5**
4846	2889	2,4,3,6,10,16,18,19,22,24,29,36,38,43,47,46,48,51	4.24	0.40	7.57	3.72	-3.15	1.11	1.68	-7.38	-1.70	-3.67	1.50	2.02	11.15	21.71	-0.33	-1.54	4.21	**41.5**
4847	497	1,3,7,11,17,19,22,25,29,36,38,40,42,46,48,51	3.26	-0.12	7.65	2.00	-3.02	1.97	4.55	2.87	-2.03	-3.86	1.12	2.02	11.02	10.51	1.06	-1.54	4.21	**41.7**
4848	4769	2,4,7,9,10,16,18,19,22,25,29,36,38,40,42,46,48,51	3.49	0.40	7.12	0.63	-1.76	1.11	3.11	-2.48	-3.11	-3.54	1.03	2.02	10.73	23.35	-3.11	-1.54	4.21	**41.7**
4849	1882	1,6,8,14,30,31,34,38,41,45,55	6.22	-2.19	16.39	2.34	4.58	2.82	5.26	-3.08	-5.82	5.84	1.59	0.11	12.75	-10.24	2.45	-1.54	4.21	**41.7**
4850	17	1,3,7,11,13,12,14,30,31,34,36,39,41,43,47,49,53,54	3.96	-0.64	7.17	8.00	4.47	0.25	3.83	8.26	-3.69	14.19	-0.85	0.11	6.76	-7.27	1.06	-1.54	-2.17	**41.9**
4851	2666	2,4,3,6,10,13,17,19,22,24,29,39,45,55	3.06	0.66	13.79	-1.69	-7.42	0.25	1.68	-5.97	4.47	9.85	-0.86	-1.80	14.61	15.45	-0.33	-1.54	-2.17	**42.0**
4852	1631	1,6,10,16,18,19,22,24,29,36,38,40,42,46,48,51	4.06	-0.38	7.47	2.50	-3.87	1.97	1.68	-6.98	-1.70	-3.90	1.48	2.02	10.89	21.71	2.45	-1.54	4.21	**42.1**
4853	507	1,3,7,11,17,19,22,25,29,39,41,40,42,46,48,51	3.86	-0.38	14.31	0.29	-9.69	-0.60	6.70	1.97	-3.45	4.07	-0.15	2.02	15.32	10.51	1.06	-1.54	-2.17	**42.1**
4854	4779	2,4,7,9,10,16,18,19,22,25,29,39,41,40,42,46,48,51	4.09	0.14	13.78	-1.09	-8.44	-1.46	5.26	-3.38	-4.53	4.39	-0.24	2.02	15.04	23.35	-3.11	-1.54	-2.17	**42.1**
4855	5249	2,5,22,24,29,36,35,37,40,43,47,49,53,54	0.08	1.44	8.80	-9.85	-10.95	1.97	-4.77	-0.79	5.24	8.43	-2.00	5.84	14.06	21.05	-0.33	2.28	1.66	**42.2**
4856	503	1,3,7,11,17,19,22,25,29,36,38,43,47,46,48,51	3.26	-0.38	7.66	2.40	-2.80	1.97	4.55	2.87	-2.03	-3.66	1.13	2.02	11.05	10.51	1.06	-1.54	4.21	**42.3**
4857	4775	2,4,7,9,10,16,18,19,22,25,29,36,38,43,47,46,48,51	3.50	0.14	7.14	1.02	-1.54	1.11	3.11	-2.48	-3.11	-3.34	1.04	2.02	10.77	23.35	-3.11	-1.54	4.21	**42.3**
4858	144	1,3,7,11,13,16,18,19,22,24,29,36,38,40,42,46,48,52,53,54	3.15	0.66	5.43	2.44	-0.54	0.25	2.40	3.49	0.21	-4.27	1.22	0.11	7.58	16.44	1.06	-1.54	4.21	**42.3**
4859	791	1,3,7,9,10,13,17,19,22,25,29,39,41,43,47,46,48,51	4.14	0.92	13.87	-0.83	-9.68	-0.60	5.98	-2.98	-4.53	4.56	-0.18	2.02	15.19	17.10	1.06	-1.54	-2.17	**42.3**
4860	5167	2,5,19,21,27,26,31,34,35,37,42,46,48,51	2.05	1.18	11.46	-1.61	-13.49	3.68	-0.47	-2.15	4.40	3.62	-0.24	7.74	13.54	5.24	-0.33	6.10	1.66	**42.4**
4861	3668	2,4,3,6,9,11,17,19,22,25,29,39,45,55	2.47	0.40	14.02	-2.34	-5.55	0.25	3.11	-0.92	3.82	9.98	-1.12	-1.80	14.93	9.19	-0.33	-1.54	-2.17	**42.4**
4862	2897	2,4,3,6,10,16,18,19,22,24,29,39,41,43,47,46,48,51	4.84	0.66	14.23	2.00	-9.83	-1.46	3.83	-8.28	-3.12	4.25	0.23	2.02	15.46	21.71	-0.33	-1.54	-2.17	**42.5**
4863	1641	1,6,10,16,18,19,22,24,29,39,41,40,42,46,48,51	4.66	-0.64	14.13	0.78	-10.55	-0.60	3.83	-7.88	-3.12	4.03	0.22	2.02	15.20	21.71	2.45	-1.54	-2.17	**42.5**
4864	625	1,3,7,9,10,12,14,30,31,34,38,40,42,46,48,51	3.91	-1.41	7.32	11.68	3.55	2.82	4.55	1.41	-4.34	1.89	1.48	2.02	4.61	-0.69	1.06	-1.54	4.21	**42.5**
4865	5232	2,5,19,21,28,34,36,39,41,43,50,54	1.49	0.92	9.79	-7.82	-8.71	1.97	-1.19	-0.87	6.18	17.86	-3.30	3.93	13.44	5.24	-0.33	2.28	1.66	**42.5**
4866	1637	1,6,10,16,18,19,22,24,29,36,38,43,47,46,48,51	4.06	-0.64	7.48	2.89	-3.65	1.97	1.68	-6.98	-1.70	-3.70	1.49	2.02	10.93	21.71	2.45	-1.54	4.21	**42.7**
4867	3195	2,4,3,6,9,11,13,12,14,32,48,51	3.48	-1.15	15.63	2.73	-4.24	2.82	8.85	-2.69	0.53	4.90	0.21	-1.80	15.73	-3.32	-0.33	-1.54	2.94	**42.7**
4868	154	1,3,7,11,13,16,18,19,22,24,29,39,41,40,42,46,48,52,53,54	3.75	0.40	12.09	0.72	-7.22	-2.32	4.55	2.59	-1.20	3.65	-0.05	0.11	11.89	16.44	1.06	-1.54	-2.17	**42.7**
4869	4552	2,4,7,9,10,13,17,19,22,25,29,39,45,55	2.32	0.40	13.36	-4.38	-5.82	0.25	3.11	-1.08	3.06	10.19	-1.32	-1.80	14.23	17.10	-3.11	-1.54	-2.17	**42.8**
4870	150	1,3,7,11,13,16,18,19,22,24,29,36,38,43,47,46,48,52,53,54	3.15	0.40	5.44	2.83	-0.32	0.25	2.40	3.49	0.21	-4.08	1.23	0.11	7.61	16.44	1.06	-1.54	4.21	**42.9**
4871	5193	2,5,19,21,27,26,33,37,40,43,47,46,48,51	2.25	0.92	11.51	-1.32	-15.06	5.39	0.25	-2.15	3.19	3.92	-0.25	7.74	14.02	5.24	-0.33	6.10	1.66	**43.1**
4872	13	1,3,7,11,13,12,14,30,31,34,36,39,41,40,42,47,50,54	4.08	-0.90	7.32	7.86	4.39	1.97	4.55	6.18	-1.37	14.76	-1.04	-1.80	7.04	-7.27	1.06	-1.54	-2.17	**43.1**
4873	5079	2,5,19,18,21,27,26,31,34,35,37,42,46,48,51	2.17	1.44	11.55	-1.61	-13.49	3.68	-0.47	-2.15	4.40	3.62	-0.22	7.74	13.80	5.24	-0.33	6.10	1.66	**43.1**
4874	631	1,3,7,9,10,12,14,30,31,34,38,43,47,46,48,51	3.91	-1.67	7.33	12.08	3.77	2.82	4.55	1.41	-4.34	2.09	1.49	2.02	4.64	-0.69	1.06	-1.54	4.21	**43.1**
4875	1414	1,6,10,13,17,19,22,24,29,39,45,55	2.88	-0.38	13.70	-2.51	-7.93	1.11	1.68	-5.57	4.47	9.82	-0.87	-1.80	14.38	15.45	2.45	-1.54	-2.17	**43.2**
4876	511	1,3,7,11,17,19,22,25,29,39,41,43,47,46,48,51	3.86	-0.12	14.32	0.68	-9.48	-0.60	6.70	1.97	-3.45	4.27	-0.14	2.02	15.36	10.51	1.06	-1.54	-2.17	**43.3**
4877	4783	2,4,7,9,10,16,18,19,22,25,29,39,41,43,47,46,48,51	4.10	0.40	13.80	-0.69	-8.22	-1.46	5.26	-3.38	-4.53	4.59	-0.23	2.02	15.08	23.35	-3.11	-1.54	-2.17	**43.3**
4878	5144	2,5,19,18,21,28,34,36,39,41,43,50,54	1.61	1.44	9.88	-7.82	-8.71	1.97	-1.19	-0.87	6.18	17.86	-3.29	3.93	13.70	5.24	-0.33	2.28	1.66	**43.5**
4879	2416	1,6,9,11,17,19,22,25,29,39,45,55	2.29	-0.64	13.93	-3.16	-6.06	1.11	3.11	-0.52	3.82	9.95	-1.14	-1.80	14.71	9.19	2.45	-1.54	-2.17	**43.5**
4880	1645	1,6,10,16,18,19,22,24,29,39,41,43,47,46,48,51	4.67	-0.38	14.14	1.18	-10.33	-0.60	3.83	-7.88	-3.12	4.22	0.22	2.02	15.23	21.71	2.45	-1.54	-2.17	**43.7**
4881	747	1,3,7,9,10,13,17,19,22,24,29,36,38,40,42,46,48,51	4.18	1.18	7.66	2.65	-4.89	1.97	3.11	-2.18	-1.36	-3.98	1.45	2.02	11.37	16.77	1.06	-1.54	4.21	**43.7**
4882	3325	2,4,3,6,9,11,13,16,18,19,22,25,29,36,38,40,42,46,48,51	3.85	1.44	7.93	3.07	-1.27	1.11	3.11	-2.33	-2.35	-3.74	1.30	2.02	11.77	15.45	-0.33	-1.54	4.21	**43.7**
4883	4990	2,4,7,9,8,14,30,31,34,38,41,45,55	6.29	-1.67	16.51	2.64	5.03	1.97	5.98	1.32	-5.48	5.78	1.50	0.11	13.11	-8.92	-3.11	-1.54	4.21	**43.7**
4884	4272	2,4,7,11,17,19,22,25,29,39,45,55	2.04	-0.64	13.81	-2.86	-5.61	0.25	3.83	3.88	4.14	9.90	-1.29	-1.80	14.40	10.51	-3.11	-1.54	-2.17	**43.7**
4885	2516	2,4,3,6,10,12,14,30,31,34,36,39,41,40,42,46,48,52,53,54	6.84	-0.64	13.38	12.05	-0.15	-0.60	5.26	-3.98	-5.61	13.77	0.20	0.11	9.23	-2.01	-0.33	-1.54	-2.17	**43.8**
4886	5105	2,5,19,18,21,27,26,33,37,40,43,47,46,48,51	2.37	1.18	11.60	-1.32	-15.06	5.39	0.25	-2.15	3.19	3.92	-0.24	7.74	14.28	5.24	-0.33	6.10	1.66	**43.8**
4887	5275	2,5,22,25,29,36,35,37,40,41,44,55	0.97	-0.12	14.32	-13.57	-10.14	1.11	-4.06	-3.49	4.79	8.97	-2.08	3.93	18.22	21.38	-0.33	2.28	1.66	**43.8**
4888	1943	1,6,9,11,13,12,14,32,48,51	3.30	-2.19	15.55	1.90	-4.75	3.68	8.85	-2.29	0.53	4.87	0.20	-1.80	15.50	-3.32	2.45	-1.54	2.94	**43.9**
4889	158	1,3,7,11,13,16,18,19,22,24,29,39,41,43,47,46,48,52,53,54	3.76	0.66	12.10	1.12	-7.00	-2.32	4.55	2.59	-1.20	3.85	-0.04	0.11	11.92	16.44	1.06	-1.54	-2.17	**43.9**
4890	3128	2,4,3,6,8,14,30,31,34,36,39,45,55	5.65	-0.90	22.16	4.60	-1.59	1.11	4.55	-4.38	-7.23	17.64	-0.11	0.11	16.64	-10.24	-0.33	-1.54	-2.17	**44.0**
4891	135	1,3,7,11,13,16,18,19,22,24,29,36,35,37,40,43,47,46,48,51	4.41	1.18	8.58	4.92	-6.60	2.82	3.11	1.31	-1.57	-4.15	1.62	2.02	12.54	16.44	1.06	-1.54	-2.17	**44.0**
4892	3799	2,4,7,11,13,12,14,32,48,51	3.04	-2.19	15.43	2.20	-4.30	2.82	9.56	2.11	0.84	4.81	0.04	-1.80	15.19	-2.01	-3.11	-1.54	2.94	**44.0**
4893	757	1,3,7,9,10,13,17,19,22,24,29,39,41,40,42,46,48,51	4.78	0.92	14.32	0.94	-11.57	-0.60	5.26	-3.07	-2.77	3.94	0.18	2.02	15.67	16.77	1.06	-1.54	-2.17	**44.1**
4894	3335	2,4,3,6,9,11,13,16,18,19,22,25,29,39,41,40,42,46,48,51	4.45	1.18	14.59	1.36	-7.95	-1.46	5.26	-3.23	-3.76	4.18	0.03	2.02	16.08	15.45	-0.33	-1.54	-2.17	**44.2**
4895	753	1,3,7,9,10,13,17,19,22,24,29,36,38,43,47,46,48,51	4.19	0.92	7.68	3.05	-4.67	1.97	3.11	-2.18	-1.36	-3.79	1.46	2.02	11.40	16.77	1.06	-1.54	4.21	**44.3**

Table F-3: Weighted, Sorted Z-scores for All Routes

		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
4896	3331	2,4,3,6,9,11,13,16,18,19,22,25,29,36,38,43,47,46,48,51	3.85	1.18	7.94	3.47	-1.05	1.11	3.11	-2.33	-2.35	-3.55	1.31	2.02	11.81	15.45	-0.33	-1.54	4.21	**44.3**
4897	5228	2,5,19,21,28,34,36,39,41,40,42,49,53,54	1.78	0.92	9.93	-7.63	-8.60	1.97	-1.91	1.22	3.85	17.40	-3.06	5.84	13.79	5.24	-0.33	2.28	1.66	**44.4**
4898	2536	2,4,3,6,10,12,14,30,33,37,40,41,45,55	6.89	-1.15	10.17	9.10	2.32	4.54	4.55	-2.96	0.40	7.83	1.15	-1.80	9.56	-2.01	-0.33	-1.54	-2.17	**44.5**
4899	467	1,3,7,11,17,19,22,24,29,36,38,40,42,46,48,51	3.90	0.14	8.11	4.17	-4.68	1.97	3.83	2.78	-0.28	-4.27	1.49	2.02	11.54	10.18	1.06	-1.54	4.21	**44.6**
4900	4739	2,4,7,9,10,16,18,19,22,24,29,36,38,40,42,46,48,51	4.13	0.66	7.59	2.79	-3.42	1.11	2.40	-2.58	-1.36	-3.95	1.40	2.02	11.26	23.02	-3.11	-1.54	4.21	**44.6**
4901	2546	2,4,3,6,10,12,14,32,46,49,53,54	4.72	-1.15	8.81	3.77	5.09	1.11	5.98	-4.86	0.41	5.81	0.54	0.11	9.97	3.26	-0.33	-1.54	2.94	**44.6**
4902	2073	1,6,9,11,13,16,18,19,22,25,29,36,38,40,42,46,48,51	3.67	0.40	7.84	2.25	-1.78	1.97	3.11	-1.93	-2.35	-3.77	1.29	2.02	11.55	15.45	2.45	-1.54	4.21	**44.8**
4903	2520	2,4,3,6,10,12,14,30,31,34,36,39,41,43,47,46,48,52,53,54	6.85	-0.38	13.39	12.45	0.07	-0.60	5.26	-3.98	-5.61	13.97	0.21	0.11	9.27	-2.01	-0.33	-1.54	-2.17	**45.0**
4904	1264	1,6,10,12,14,30,31,34,36,39,41,40,42,46,48,52,53,54	6.67	-1.67	13.29	11.23	-0.65	0.25	5.26	-3.58	-5.61	13.74	0.19	0.11	9.01	-2.01	2.45	-1.54	-2.17	**45.0**
4905	3929	2,4,7,11,13,16,18,19,22,25,29,36,38,40,42,46,48,51	3.41	0.40	7.72	2.55	-1.33	1.11	3.83	2.47	-2.03	-3.83	1.14	2.02	11.24	16.77	-3.11	-1.54	4.21	**45.0**
4906	477	1,3,7,11,17,19,22,24,29,39,41,40,42,46,48,51	4.50	-0.12	14.77	2.45	-11.36	-0.60	5.98	1.88	-1.69	3.65	0.22	2.02	15.85	10.18	1.06	-1.54	-2.17	**45.1**
4907	4749	2,4,7,9,10,16,18,19,22,24,29,39,41,40,42,46,48,51	4.74	0.40	14.25	1.08	-10.10	-1.46	4.55	-3.47	-2.77	3.97	0.13	2.02	15.57	23.02	-3.11	-1.54	-2.17	**45.1**
4908	1876	1,6,8,14,30,31,34,36,39,45,55	5.47	-1.93	22.07	3.77	-2.10	1.97	4.55	-3.98	-7.23	17.61	-0.12	0.11	16.42	-10.24	2.45	-1.54	-2.17	**45.1**
4909	5182	2,5,19,21,27,26,31,34,38,40,42,46,48,52,53,54	1.19	1.18	8.61	-3.69	-7.21	2.82	-1.19	0.03	6.18	3.69	-0.60	5.84	9.25	5.24	-0.33	6.10	8.05	**45.1**
4910	2932	2,4,3,6,10,16,18,19,22,25,29,39,45,55	2.44	-0.12	13.34	-4.05	-4.53	0.25	1.68	-5.88	2.72	10.27	-1.24	-1.80	14.15	22.04	-0.33	-1.54	-2.17	**45.2**
4911	473	1,3,7,11,17,19,22,24,29,36,38,43,47,46,48,51	3.91	-0.12	8.13	4.57	-4.46	1.97	3.83	2.78	-0.28	-4.08	1.49	2.02	11.58	10.18	1.06	-1.54	4.21	**45.2**
4912	4745	2,4,7,9,10,16,18,19,22,24,29,36,38,43,47,46,48,51	4.14	0.40	7.60	3.19	-3.20	1.11	2.40	-2.58	-1.36	-3.76	1.40	2.02	11.29	23.02	-3.11	-1.54	4.21	**45.2**
4913	761	1,3,7,9,10,13,17,19,22,24,29,39,41,43,47,46,48,51	4.79	1.18	14.34	1.33	-11.35	-0.60	5.26	-3.07	-2.77	4.14	0.19	2.02	15.71	16.77	1.06	-1.54	-2.17	**45.3**
4914	3339	2,4,3,6,9,11,13,16,18,19,22,25,29,39,41,43,47,46,48,51	4.46	1.44	14.60	1.75	-7.73	-1.46	5.26	-3.23	-3.76	4.38	0.04	2.02	16.12	15.45	-0.33	-1.54	-2.17	**45.3**
4915	2083	1,6,9,11,13,16,18,19,22,25,29,39,41,40,42,46,48,51	4.27	0.14	14.50	0.53	-8.45	-0.60	5.26	-2.83	-3.76	4.15	0.02	2.02	15.86	15.45	2.45	-1.54	-2.17	**45.3**
4916	5140	2,5,19,18,21,28,34,36,39,41,40,42,49,53,54	1.91	1.44	10.02	-7.63	-8.60	1.97	-1.91	1.22	3.85	17.40	-3.05	5.84	14.05	5.24	-0.33	2.28	1.66	**45.4**
4917	3638	2,4,3,6,9,11,17,19,22,24,29,39,45,55	3.11	0.66	14.48	-0.17	-7.22	0.25	2.40	-1.02	5.58	9.56	-0.76	-1.80	15.46	8.86	-0.33	-1.54	-2.17	**45.4**
4918	21	1,3,7,11,13,12,14,30,31,34,38,40,42,46,48,51	3.83	-1.93	7.92	13.60	3.98	2.82	5.26	6.37	-3.27	1.60	1.59	2.02	5.11	-7.27	1.06	-1.54	4.21	**45.4**
4919	2079	1,6,9,11,13,16,18,19,22,25,29,36,38,43,47,46,48,51	3.68	0.14	7.86	2.65	-1.56	1.97	3.11	-1.93	-2.35	-3.58	1.30	2.02	11.58	15.45	2.45	-1.54	4.21	**45.5**
4920	3939	2,4,7,11,13,16,18,19,22,25,29,39,41,40,42,46,48,51	4.02	0.14	14.38	0.83	-8.01	-1.46	5.98	1.58	-3.45	4.10	-0.13	2.02	15.55	16.77	-3.11	-1.54	-2.17	**45.5**
4921	1219	1,3,7,9,8,14,30,31,34,36,39,41,40,42,46,48,51	7.37	-1.15	22.69	7.22	-5.74	0.25	8.13	-1.48	-14.48	11.73	0.93	3.93	17.71	-8.92	1.06	-1.54	-2.17	**45.5**
4922	5048	2,5,19,18,19,22,25,29,36,35,37,42,49,53,54	0.72	0.66	9.25	-12.42	-9.50	1.11	-2.62	-0.70	3.49	8.66	-2.21	5.84	16.33	23.35	-0.33	2.28	1.66	**45.6**
4923	3935	2,4,7,11,13,16,18,19,22,25,29,36,38,43,47,46,48,51	3.42	0.14	7.74	2.94	-1.11	1.11	3.83	2.47	-2.03	-3.63	1.14	2.02	11.27	16.77	-3.11	-1.54	4.21	**45.6**
4924	1284	1,6,10,12,14,30,33,37,40,41,45,55	6.72	-2.19	10.09	8.28	1.81	5.39	4.55	-2.56	0.40	7.80	1.13	-1.80	9.33	-2.01	2.45	-1.54	-2.17	**45.7**
4925	5231	2,5,19,21,28,34,36,39,41,43,47,49,53,54	1.79	1.44	9.95	-7.23	-8.38	1.97	-1.91	1.22	3.85	17.60	-3.06	5.84	13.83	5.24	-0.33	2.28	1.66	**45.7**
4926	4522	2,4,7,9,10,13,17,19,22,24,29,39,45,55	2.96	0.66	13.82	-2.21	-7.48	0.25	2.40	-1.17	4.82	9.77	-0.96	-1.80	14.75	16.77	-3.11	-1.54	-2.17	**45.8**
4927	5188	2,5,19,21,27,26,31,34,38,43,47,46,48,52,53,54	1.19	0.92	8.62	-3.30	-6.99	2.82	-1.19	0.03	6.18	3.89	-0.59	5.84	9.28	5.24	-0.33	6.10	8.05	**45.8**
4928	1294	1,6,10,12,14,32,46,49,53,54	4.55	-2.19	8.72	2.95	4.59	1.97	5.98	-4.46	0.41	5.78	0.53	0.11	9.75	3.26	2.45	-1.54	2.94	**45.8**
4929	5294	2,5,22,25,29,36,38,43,50,54	-1.13	-0.12	7.89	-12.76	-6.02	1.11	-3.34	-1.31	7.11	9.19	-2.68	3.93	12.59	21.38	-0.33	2.28	8.05	**45.8**
4930	2668	2,4,3,6,10,13,17,19,22,25,29,36,35,37,40,41,45,55	6.72	1.44	10.30	-1.98	-2.67	3.68	3.11	-6.45	2.84	2.27	0.81	-1.80	15.97	15.78	-0.33	-1.54	-2.17	**46.0**
4931	27	1,3,7,11,13,12,14,30,31,34,38,43,47,46,48,51	3.84	-2.19	7.93	14.00	4.20	2.82	5.26	6.37	-3.27	1.80	1.60	2.02	5.15	-7.27	1.06	-1.54	4.21	**46.0**
4932	1268	1,6,10,12,14,30,31,34,36,39,41,43,47,46,48,52,53,54	6.67	-1.41	13.31	11.62	-0.43	0.25	5.26	-3.58	-5.61	13.94	0.20	0.11	9.05	-2.01	2.45	-1.54	-2.17	**46.1**
4933	5094	2,5,19,18,21,27,26,31,34,38,40,42,46,48,52,53,54	1.31	1.70	8.70	-3.69	-7.21	2.82	-1.19	0.03	6.18	3.69	-0.58	5.84	9.50	5.24	-0.33	6.10	8.05	**46.1**
4934	481	1,3,7,11,17,19,22,24,29,39,41,43,47,46,48,51	4.51	0.14	14.79	2.85	-11.14	-0.60	5.98	1.88	-1.69	3.85	0.23	2.02	15.88	10.18	1.06	-1.54	-2.17	**46.2**
4935	4753	2,4,7,9,10,16,18,19,22,24,29,39,41,43,47,46,48,51	4.74	0.66	14.26	1.47	-9.88	-1.46	4.55	-3.47	-2.77	4.17	0.13	2.02	15.60	23.02	-3.11	-1.54	-2.17	**46.2**
4936	1680	1,6,10,16,18,19,22,25,29,39,45,55	2.26	-1.15	13.25	-4.88	-5.03	1.11	1.68	-5.48	2.72	10.24	-1.25	-1.80	13.93	22.04	2.45	-1.54	-2.17	**46.4**
4937	647	1,3,7,9,10,12,14,32,48,51	3.19	-1.67	14.92	-0.06	-4.97	3.68	8.85	-2.45	-0.24	5.07	-0.03	-1.80	14.87	4.58	1.06	-1.54	2.94	**46.4**
4938	2087	1,6,9,11,13,16,18,19,22,25,29,39,41,43,47,46,48,51	4.28	0.40	14.52	0.93	-8.23	-0.60	5.26	-2.83	-3.76	4.35	0.03	2.02	15.89	15.45	2.45	-1.54	-2.17	**46.4**
4939	2386	1,6,9,11,17,19,22,24,29,39,45,55	2.94	-0.38	14.39	-0.99	-7.72	1.11	2.40	-0.62	5.58	9.53	-0.77	-1.80	15.23	8.86	2.45	-1.54	-2.17	**46.5**
4940	3943	2,4,7,11,13,16,18,19,22,25,29,39,41,43,47,46,48,51	4.02	0.40	14.40	1.23	-7.79	-1.46	5.98	1.58	-3.45	4.30	-0.12	2.02	15.58	16.77	-3.11	-1.54	-2.17	**46.6**
4941	3295	2,4,3,6,9,11,13,16,18,19,22,24,29,36,38,40,42,46,48,51	4.49	1.70	8.40	5.24	-2.94	1.11	2.40	-2.42	-0.59	-4.16	1.67	2.02	12.30	15.12	-0.33	-1.54	4.21	**46.7**
4942	1223	1,3,7,9,8,14,30,31,34,36,39,41,43,47,46,48,51	7.38	-0.90	22.70	7.62	-5.52	0.25	8.13	-1.48	-14.48	11.93	0.94	3.93	17.74	-8.92	1.06	-1.54	-2.17	**46.7**
4943	4242	2,4,7,11,17,19,22,24,29,39,45,55	2.68	-0.38	14.27	-0.70	-7.27	0.25	3.11	3.79	5.89	9.48	-0.92	-1.80	14.93	10.18	-3.11	-1.54	-2.17	**46.7**
4944	5143	2,5,19,18,21,28,34,36,39,41,43,47,49,53,54	1.91	1.96	10.04	-7.23	-8.38	1.97	-1.91	1.22	3.85	17.60	-3.04	5.84	14.09	5.24	-0.33	2.28	1.66	**46.8**
4945	5100	2,5,19,18,21,27,26,31,34,38,43,47,46,48,52,53,54	1.32	1.44	8.71	-3.30	-6.99	2.82	-1.19	0.03	6.18	3.89	-0.58	5.84	9.54	5.24	-0.33	6.10	8.05	**46.8**
4946	5302	2,5,22,25,29,39,41,43,50,54	-0.53	0.14	14.55	-14.48	-12.70	-1.46	-1.19	-2.21	5.69	17.11	-3.95	3.93	16.90	21.38	-0.33	2.28	1.66	**46.8**
4947	5245	2,5,22,24,29,36,35,37,40,41,44,55	1.61	0.14	14.79	-11.40	-11.80	1.11	-4.77	-3.58	6.55	8.55	-1.71	3.93	18.75	21.05	-0.33	2.28	1.66	**46.8**
4948	1013	1,3,7,9,10,16,18,19,22,25,29,36,38,40,42,46,48,51	3.56	0.40	7.21	0.29	-2.00	1.97	3.11	-2.09	-3.11	-3.57	1.07	2.02	10.91	23.35	1.06	-1.54	4.21	**46.9**
4949	5227	2,5,19,21,28,34,36,39,41,40,42,47,50,54	1.91	1.18	10.09	-7.37	-8.46	3.68	-1.19	-0.87	6.18	18.17	-3.25	3.93	14.12	5.24	-0.33	2.28	1.66	**47.0**
4950	5163	2,5,19,21,27,26,31,34,35,37,40,43,47,46,48,51	2.44	1.96	11.76	-1.21	-13.27	5.39	-0.47	-2.15	4.40	3.81	-0.20	7.74	14.20	5.24	-0.33	6.10	1.66	**47.1**

Westar Energy- JEC to East Manhattan
345/230 kV Transmission Line Project
Table F-3: Weighted, Sorted Z-scores for All Routes

Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
4951	1416	1,6,10,13,17,19,22,25,29,36,35,37,40,41,45,55	6.54	0.40	10.21	-2.81	-3.18	4.54	3.11	-6.05	2.84	2.24	0.79	-1.80	15.75	15.78	2.45	-1.54	-2.17	**47.1**
4952	3305	2,4,3,6,9,11,13,16,18,19,22,24,29,39,41,40,42,46,48,51	5.09	1.44	15.06	3.52	-9.61	-1.46	4.55	-3.32	-2.01	3.77	0.40	2.02	16.61	15.12	-0.33	-1.54	-2.17	**47.1**
4953	4984	2,4,7,9,8,14,30,31,34,36,39,45,55	5.55	-1.41	22.19	4.07	-1.65	1.11	5.26	0.42	-6.89	17.55	-0.21	0.11	16.78	-8.92	-3.11	-1.54	-2.17	**47.1**
4954	3301	2,4,3,6,9,11,13,16,18,19,22,24,29,36,38,43,47,46,48,51	4.50	1.44	8.41	5.64	-2.72	1.11	2.40	-2.42	-0.59	-3.96	1.67	2.02	12.33	15.12	-0.33	-1.54	4.21	**47.3**
4955	2545	2,4,3,6,10,12,14,32,46,47,50,54	4.85	-0.90	8.97	4.03	5.24	2.82	6.70	-6.94	2.73	6.58	0.38	-1.80	10.29	3.26	-0.33	-1.54	2.94	**47.3**
4956	5044	2,5,19,18,19,22,25,29,36,35,37,40,43,50,54	0.81	1.18	9.39	-12.61	-9.61	2.82	-1.91	-2.78	5.81	9.11	-2.42	3.93	16.61	23.35	-0.33	2.28	1.66	**47.3**
4957	1023	1,3,7,9,10,16,18,19,22,25,29,39,41,40,42,46,48,51	4.16	0.14	13.87	-1.43	-8.67	-0.60	5.26	-2.98	-4.53	4.36	-0.20	2.02	15.22	23.35	1.06	-1.54	-2.17	**47.3**
4958	1019	1,3,7,9,10,16,18,19,22,25,29,36,38,43,47,46,48,51	3.56	0.14	7.23	0.68	-1.78	1.97	3.11	-2.09	-3.11	-3.37	1.07	2.02	10.95	23.35	1.06	-1.54	4.21	**47.5**
4959	4372	2,4,7,9,10,12,14,30,31,34,36,39,41,40,42,46,48,52,53,54	6.74	-0.64	13.41	11.52	-0.20	-0.60	5.98	0.82	-5.27	13.69	0.10	0.11	9.38	-0.69	-3.11	-1.54	-2.17	**47.5**
4960	2043	1,6,9,11,13,16,18,19,22,24,29,36,38,40,42,46,48,51	4.32	0.66	8.31	4.41	-3.44	1.97	2.40	-2.02	-0.59	-4.19	1.66	2.02	12.07	15.12	2.45	-1.54	4.21	**47.8**
4961	5075	2,5,19,18,21,27,26,31,34,35,37,40,43,47,46,48,51	2.57	2.22	11.85	-1.21	-13.27	5.39	-0.47	-2.15	4.40	3.81	-0.19	7.74	14.46	5.24	-0.33	6.10	1.66	**47.8**
4962	5139	2,5,19,18,21,28,34,36,39,41,40,42,47,50,54	2.04	1.70	10.18	-7.37	-8.46	3.68	-1.19	-0.87	6.18	18.17	-3.23	3.93	14.37	5.24	-0.33	2.28	1.66	**48.0**
4963	796	1,3,7,9,10,13,17,19,22,25,29,39,45,55	2.38	0.40	13.45	-4.72	-6.05	1.11	3.11	-0.68	3.06	10.16	-1.29	-1.80	14.41	17.10	1.06	-1.54	-2.17	**48.0**
4964	3899	2,4,7,11,13,16,18,19,22,24,29,36,38,40,42,46,48,51	4.06	0.66	8.19	4.71	-2.99	1.11	3.11	2.38	-0.28	-4.24	1.50	2.02	11.76	16.44	-3.11	-1.54	4.21	**48.0**
4965	2506	2,4,3,6,10,12,14,30,31,34,35,37,40,41,45,55	7.09	-0.64	10.43	9.21	4.11	4.54	3.83	-2.96	1.61	7.73	1.20	-1.80	9.74	-2.01	-0.33	-1.54	-2.17	**48.0**
4966	5288	2,5,22,25,29,36,38,40,42,49,53,54	-0.84	0.40	8.03	-12.57	-5.92	1.11	-4.06	0.77	4.78	8.73	-2.44	5.84	12.95	21.38	-0.33	2.28	8.05	**48.2**
4967	5047	2,5,19,18,19,22,25,29,36,35,37,42,47,50,54	0.85	0.92	9.41	-12.16	-9.36	2.82	-1.91	-2.78	5.81	9.42	-2.40	3.93	16.65	23.35	-0.33	2.28	1.66	**48.2**
4968	2902	2,4,3,6,10,16,18,19,22,24,29,39,45,55	3.08	0.14	13.81	-1.89	-6.19	0.25	0.96	-5.97	4.47	9.85	-0.88	-1.80	14.68	21.71	-0.33	-1.54	-2.17	**48.2**
4969	4392	2,4,7,9,10,12,14,30,33,37,40,41,45,55	6.79	-1.15	10.21	8.58	2.26	4.54	5.26	1.84	0.74	7.75	1.05	-1.80	9.70	-0.69	-3.11	-1.54	-2.17	**48.3**
4970	3309	2,4,3,6,9,11,13,16,18,19,22,24,29,39,41,43,47,46,48,51	5.10	1.70	15.07	3.92	-9.39	-1.46	4.55	-3.32	-2.01	3.96	0.41	2.02	16.64	15.12	-0.33	-1.54	-2.17	**48.3**
4971	2053	1,6,9,11,13,16,18,19,22,24,29,39,41,40,42,46,48,51	4.92	0.40	14.97	2.70	-10.12	-0.60	4.55	-2.92	-2.01	3.74	0.39	2.02	16.38	15.12	2.45	-1.54	-2.17	**48.3**
4972	5067	2,5,19,18,19,22,25,29,39,44,55	-1.66	-0.64	18.56	-15.44	-13.23	-1.46	-3.34	-2.92	4.67	16.97	-3.91	3.93	19.79	23.35	-0.33	2.28	1.66	**48.3**
4973	4402	2,4,7,9,10,12,14,32,46,49,53,54	4.62	-1.15	8.84	3.24	5.04	1.11	6.70	-0.05	0.75	5.73	0.44	0.11	10.12	4.58	-3.11	-1.54	2.94	**48.4**
4974	2049	1,6,9,11,13,16,18,19,22,24,29,36,38,43,47,46,48,51	4.32	0.40	8.32	4.81	-3.22	1.97	2.40	-2.02	-0.59	-3.99	1.66	2.02	12.11	15.12	2.45	-1.54	4.21	**48.4**
4975	1293	1,6,10,12,14,32,46,47,50,54	4.68	-1.93	8.88	3.21	4.73	3.68	6.70	-6.54	2.73	6.55	0.37	-1.80	10.07	3.26	2.45	-1.54	2.94	**48.4**
4976	3909	2,4,7,11,13,16,18,19,22,24,29,39,41,40,42,46,48,51	4.66	0.40	14.85	3.00	-9.67	-1.46	5.26	1.48	-1.69	3.68	0.24	2.02	16.07	16.44	-3.11	-1.54	-2.17	**48.5**
4977	1027	1,3,7,9,10,16,18,19,22,25,29,39,41,43,47,46,48,51	4.17	0.40	13.89	-1.03	-8.45	-0.60	5.26	-2.98	-4.53	4.56	-0.20	2.02	15.26	23.35	1.06	-1.54	-2.17	**48.5**
4978	5018	2,5,19,18,19,22,24,29,36,35,37,42,49,53,54	1.36	0.92	9.72	-10.25	-11.17	1.11	-3.34	-0.79	5.24	8.24	-1.85	5.84	16.86	23.02	-0.33	2.28	1.66	**48.5**
4979	3905	2,4,7,11,13,16,18,19,22,24,29,36,38,43,47,46,48,51	4.06	0.40	8.20	5.11	-2.77	1.11	3.11	2.38	-0.28	-4.05	1.51	2.02	11.80	16.44	-3.11	-1.54	4.21	**48.6**
4980	5298	2,5,22,25,29,39,41,40,42,49,53,54	-0.24	0.14	14.69	-14.29	-12.59	-1.46	-1.91	-0.12	3.37	16.65	-3.71	5.84	17.25	21.38	-0.33	2.28	1.66	**48.6**
4981	4376	2,4,7,9,10,12,14,30,31,34,36,39,41,43,47,46,48,52,53,54	6.75	-0.38	13.43	11.92	0.02	-0.60	5.98	0.82	-5.27	13.89	0.11	0.11	9.41	-0.69	-3.11	-1.54	-2.17	**48.7**
4982	5264	2,5,22,24,29,36,38,43,50,54	-0.49	0.14	8.36	-10.60	-7.69	1.11	-4.06	-1.40	8.86	8.77	-2.32	3.93	13.12	21.05	-0.33	2.28	8.05	**48.8**
4983	1234	1,3,7,9,8,14,30,31,34,38,41,45,55	6.36	-1.67	16.59	2.30	4.79	2.82	5.98	1.72	-5.48	5.75	1.54	0.11	13.29	-8.92	1.06	-1.54	4.21	**48.9**
4984	516	1,3,7,11,17,19,22,25,29,39,45,55	2.10	-0.64	13.90	-3.21	-5.84	1.11	3.83	4.28	4.14	9.87	-1.25	-1.80	14.58	10.51	1.06	-1.54	-2.17	**48.9**
4985	2638	2,4,3,6,10,13,17,19,22,24,29,36,35,37,40,41,45,55	7.36	1.70	10.77	0.18	-4.34	3.68	2.40	-6.55	4.59	1.85	1.17	-1.80	16.50	15.45	-0.33	-1.54	-2.17	**48.9**
4986	4788	2,4,7,9,10,16,18,19,22,25,29,39,45,55	2.34	-0.12	13.37	-4.58	-4.59	0.25	2.40	-1.08	3.06	10.19	-1.34	-1.80	14.30	23.35	-3.11	-1.54	-2.17	**48.9**
4987	5293	2,5,22,25,29,36,38,43,47,49,53,54	-0.83	0.40	8.05	-12.17	-5.70	1.11	-4.06	0.77	4.78	8.92	-2.44	5.84	12.98	21.38	-0.33	2.28	8.05	**49.0**
4988	3164	2,4,3,6,9,11,13,12,14,30,31,34,36,39,41,40,42,46,48,52,53,54	7.10	-0.12	14.22	13.97	0.29	-0.60	5.98	0.97	-4.50	13.48	0.38	0.11	10.42	-8.59	-0.33	-1.54	-2.17	**49.0**
4989	1254	1,6,10,12,14,30,31,34,35,37,40,41,45,55	6.91	-1.67	10.34	8.39	3.60	5.39	3.83	-2.56	1.61	7.70	1.19	-1.80	9.51	-2.01	2.45	-1.54	-2.17	**49.2**
4990	5235	2,5,19,21,28,34,38,40,42,46,48,51	1.67	0.14	10.69	-1.63	-8.87	4.54	-0.47	-0.68	4.28	5.01	-0.61	7.74	12.19	5.24	-0.33	2.28	8.05	**49.2**
4991	43	1,3,7,11,13,12,14,32,48,51	3.11	-2.19	15.51	1.86	-4.54	3.68	9.56	2.51	0.84	4.78	0.08	-1.80	15.37	-2.01	1.06	-1.54	2.94	**49.2**
4992	3640	2,4,3,6,9,11,17,19,22,25,29,36,35,37,40,41,45,55	6.77	1.44	10.99	-0.47	-2.46	3.68	3.83	-1.50	3.94	1.98	0.90	-1.80	16.83	9.19	-0.33	-1.54	-2.17	**49.3**
4993	5282	2,5,22,25,29,36,35,37,42,46,48,52,53,54	1.83	0.14	14.98	-6.92	-13.76	0.25	-1.19	-2.78	2.99	8.03	-1.30	5.84	16.22	21.38	-0.33	2.28	1.66	**49.3**
4994	1650	1,6,10,16,18,19,22,24,29,39,45,55	2.91	-0.90	13.72	-2.71	-6.70	1.11	0.96	-5.57	4.47	9.82	-0.89	-1.80	14.45	21.71	2.45	-1.54	-2.17	**49.3**
4995	5178	2,5,19,21,27,26,31,34,36,39,41,43,50,54	1.99	1.96	10.56	-7.96	-9.74	1.97	-1.19	-0.87	7.59	16.54	-2.96	3.93	14.86	5.24	-0.33	6.10	1.66	**49.4**
4996	2057	1,6,9,11,13,16,18,19,22,24,29,39,41,43,47,46,48,51	4.92	0.66	14.98	3.10	-9.90	-0.60	4.55	-2.92	-2.01	3.93	0.39	2.02	16.42	15.12	2.45	-1.54	-2.17	**49.4**
4997	3913	2,4,7,11,13,16,18,19,22,24,29,39,41,43,47,46,48,51	4.67	0.66	14.86	3.39	-9.45	-1.46	5.26	1.48	-1.69	3.88	0.24	2.02	16.11	16.44	-3.11	-1.54	-2.17	**49.6**
4998	4524	2,4,7,9,10,13,17,19,22,25,29,36,35,37,40,41,45,55	6.61	1.44	10.33	-2.51	-2.73	3.68	3.83	-1.65	3.18	2.19	0.70	-1.80	16.12	17.10	-3.11	-1.54	-2.17	**49.7**
4999	5272	2,5,22,24,29,39,41,43,50,54	0.12	0.40	15.02	-12.31	-14.36	-1.46	-1.91	-2.30	7.45	16.70	-3.58	3.93	17.42	21.05	-0.33	2.28	1.66	**49.8**
5000	3184	2,4,3,6,9,11,13,12,14,30,33,37,40,41,45,55	7.15	-0.64	11.01	11.02	2.75	4.54	5.26	2.00	1.51	7.54	1.32	-1.80	10.74	-8.59	-0.33	-1.54	-2.17	**49.8**
5001	983	1,3,7,9,10,16,18,19,22,24,29,36,38,40,42,46,48,51	4.20	0.66	7.68	2.45	-3.66	1.97	2.40	-2.18	-1.36	-3.98	1.43	2.02	11.44	23.02	1.06	-1.54	4.21	**49.8**
5002	5241	2,5,19,21,28,34,38,43,47,46,48,51	1.67	-0.12	10.71	-1.23	-8.65	4.54	-0.47	-0.68	4.28	5.20	-0.61	7.74	12.22	5.24	-0.33	2.28	8.05	**49.8**
5003	3194	2,4,3,6,9,11,13,12,14,32,46,49,53,54	4.98	-0.64	9.65	5.69	5.52	1.11	6.70	0.10	1.51	5.52	0.72	0.11	11.15	-3.32	-0.33	-1.54	2.94	**49.9**
5004	5147	2,5,19,18,21,28,34,38,40,42,46,48,51	1.79	0.40	10.78	-1.63	-8.87	4.54	-0.47	-0.68	4.28	5.01	-0.60	7.74	12.44	5.24	-0.33	2.28	8.05	**50.0**
5005	5301	2,5,22,25,29,39,41,43,47,49,53,54	-0.23	0.66	14.71	-13.89	-12.37	-1.46	-1.91	-0.12	3.37	16.85	-3.71	5.84	17.29	21.38	-0.33	2.28	1.66	**50.0**

Weights			3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
Rank	**Route**	**Segments**	**Total length**	**Heavy angles > 30 degrees**	**Length not along Transmission Line**	**Length not along Roads**	**Length not along Property Lines**	**Roads crossed**	**Streams and rivers crossed**	**Wetland acres in ROW**	**Woodland acres in ROW**	**Cropland acres in ROW**	**Open/Pasture land in ROW**	**Rare species/ Species of concern polygons crossed**	**Visibility rating**	**Residential proximity score**	**Businesses within 300ft**	**Public facilities within 300ft**	**Cultural sites within 1320ft**	**Sum**
5006	1386	1,6,10,13,17,19,22,24,29,36,35,37,40,41,45,55	7.18	0.66	10.68	-0.64	-4.84	4.54	2.40	-6.15	4.59	1.83	1.16	-1.80	16.27	15.45	2.45	-1.54	-2.17	**50.1**
5007	3168	2,4,3,6,9,11,13,12,14,30,31,34,36,39,41,43,47,46,48,52,53,54	7.11	0.14	14.23	14.37	0.51	-0.60	5.98	0.97	-4.50	13.68	0.38	0.11	10.45	-8.59	-0.33	-1.54	-2.17	**50.2**
5008	1912	1,6,9,11,13,12,14,30,31,34,36,39,41,40,42,46,48,52,53,54	6.92	-1.15	14.13	13.14	-0.22	0.25	5.98	1.37	-4.50	13.45	0.36	0.11	10.19	-8.59	2.45	-1.54	-2.17	**50.2**
5009	173	1,3,7,11,13,16,18,19,22,25,29,36,38,40,42,46,48,51	3.48	0.40	7.81	2.20	-1.57	1.97	3.83	2.87	-2.03	-3.86	1.17	2.02	11.42	16.77	1.06	-1.54	4.21	**50.2**
5010	5014	2,5,19,18,19,22,24,29,36,35,37,40,43,50,54	1.46	1.44	9.86	-10.44	-11.27	2.82	-2.62	-2.87	7.57	8.70	-2.05	3.93	17.13	23.02	-0.33	2.28	1.66	**50.3**
5011	993	1,3,7,9,10,16,18,19,22,24,29,39,41,40,42,46,48,51	4.81	0.40	14.34	0.74	-10.34	-0.60	4.55	-3.07	-2.77	3.94	0.16	2.02	15.75	23.02	1.06	-1.54	-2.17	**50.3**
5012	5090	2,5,19,18,21,27,26,31,34,36,39,41,43,50,54	2.11	2.48	10.65	-7.96	-9.74	1.97	-1.19	-0.87	7.59	16.54	-2.95	3.93	15.12	5.24	-0.33	6.10	1.66	**50.4**
5013	3768	2,4,7,11,13,12,14,30,31,34,36,39,41,40,42,46,48,52,53,54	6.67	-1.15	14.01	13.44	0.23	-0.60	6.70	5.78	-4.19	13.40	0.21	0.11	9.88	-7.27	-3.11	-1.54	-2.17	**50.4**
5014	2388	1,6,9,11,17,19,22,25,29,36,35,37,40,41,45,55	6.59	0.40	10.91	-1.29	-2.97	4.54	3.83	-1.10	3.94	1.95	0.89	-1.80	16.60	9.19	2.45	-1.54	-2.17	**50.4**
5015	989	1,3,7,9,10,16,18,19,22,24,29,36,38,43,47,46,48,51	4.21	0.40	7.69	2.85	-3.44	1.97	2.40	-2.18	-1.36	-3.79	1.44	2.02	11.47	23.02	1.06	-1.54	4.21	**50.4**
5016	5043	2,5,19,18,19,22,25,29,36,35,37,40,43,47,49,53,54	1.11	1.70	9.55	-12.02	-9.28	2.82	-2.62	-0.70	3.49	8.85	-2.18	5.84	17.00	23.35	-0.33	2.28	1.66	**50.5**
5017	5153	2,5,19,18,21,28,34,38,43,47,46,48,51	1.80	0.14	10.80	-1.23	-8.65	4.54	-0.47	-0.68	4.28	5.20	-0.59	7.74	12.48	5.24	-0.33	2.28	8.05	**50.6**
5018	4244	2,4,7,11,17,19,22,25,29,36,35,37,40,41,45,55	6.33	0.40	10.79	-0.99	-2.52	3.68	4.55	3.31	4.26	1.90	0.74	-1.80	16.29	10.51	-3.11	-1.54	-2.17	**50.6**
5019	183	1,3,7,11,13,16,18,19,22,25,29,39,41,40,42,46,48,51	4.09	0.14	14.47	0.49	-8.24	-0.60	5.98	1.97	-3.45	4.07	-0.09	2.02	15.73	16.77	1.06	-1.54	-2.17	**50.7**
5020	5287	2,5,22,25,29,36,38,40,42,47,50,54	-0.71	0.66	8.19	-12.31	-5.78	2.82	-3.34	-1.31	7.11	9.49	-2.63	3.93	13.27	21.38	-0.33	2.28	8.05	**50.8**
5021	179	1,3,7,11,13,16,18,19,22,25,29,36,38,43,47,46,48,51	3.49	0.14	7.82	2.60	-1.35	1.97	3.83	2.87	-2.03	-3.66	1.18	2.02	11.45	16.77	1.06	-1.54	4.21	**50.8**
5022	1932	1,6,9,11,13,12,14,30,33,37,40,41,45,55	6.97	-1.67	10.92	10.20	2.25	5.39	5.26	2.40	1.51	7.51	1.31	-1.80	10.52	-8.59	2.45	-1.54	-2.17	**50.9**
5023	766	1,3,7,9,10,13,17,19,22,24,29,39,45,55	3.03	0.66	13.91	-2.55	-7.72	1.11	2.40	-0.77	4.82	9.74	-0.92	-1.80	14.93	16.77	1.06	-1.54	-2.17	**50.9**
5024	3344	2,4,3,6,9,11,13,16,18,19,22,25,29,39,45,55	2.70	0.92	14.18	-2.13	-4.10	0.25	2.40	-0.92	3.82	9.98	-1.07	-1.80	15.34	15.45	-0.33	-1.54	-2.17	**51.0**
5025	4401	2,4,7,9,10,12,14,32,46,47,50,54	4.75	-0.90	9.00	3.50	5.18	2.82	7.41	-2.13	3.08	6.49	0.28	-1.80	10.44	4.58	-3.11	-1.54	2.94	**51.0**
5026	1942	1,6,9,11,13,12,14,32,46,49,53,54	4.80	-1.67	9.56	4.87	5.02	1.97	6.70	0.50	1.51	5.49	0.70	0.11	10.93	-3.32	2.45	-1.54	2.94	**51.0**
5027	3788	2,4,7,11,13,12,14,30,33,37,40,41,45,55	6.72	-1.67	10.80	10.50	2.69	4.54	5.98	6.80	1.82	7.46	1.16	-1.80	10.21	-7.27	-3.11	-1.54	-2.17	**51.1**
5028	5258	2,5,22,24,29,36,38,40,42,49,53,54	-0.19	0.66	8.50	-10.40	-7.58	1.11	-4.77	0.68	6.54	8.31	-2.08	5.84	13.47	21.05	-0.33	2.28	8.05	**51.1**
5029	5017	2,5,19,18,19,22,24,29,36,35,37,42,47,50,54	1.49	1.18	9.87	-9.99	-11.03	2.82	-2.62	-2.87	7.57	9.00	-2.03	3.93	17.18	23.02	-0.33	2.28	1.66	**51.1**
5030	5174	2,5,19,21,27,26,31,34,36,39,41,40,42,49,53,54	2.28	1.96	10.70	-7.76	-9.63	1.97	-1.91	1.22	5.27	16.08	-2.73	5.84	15.22	5.24	-0.33	6.10	1.66	**51.2**
5031	3798	2,4,7,11,13,12,14,32,46,49,53,54	4.54	-1.67	9.44	5.16	5.47	1.11	7.41	4.91	1.83	5.44	0.55	0.11	10.62	-2.01	-3.11	-1.54	2.94	**51.2**
5032	5297	2,5,22,25,29,39,41,40,42,47,50,54	-0.10	0.40	14.85	-14.03	-12.45	0.25	-1.19	-2.21	5.69	17.42	-3.90	3.93	17.58	21.38	-0.33	2.28	1.66	**51.2**
5033	5037	2,5,19,18,19,22,24,29,39,44,55	-1.01	-0.38	19.02	-13.27	-14.89	-1.46	-4.06	-3.01	6.43	16.55	-3.55	3.93	20.32	23.02	-0.33	2.28	1.66	**51.2**
5034	1916	1,6,9,11,13,12,14,30,31,34,36,39,41,43,47,46,48,52,53,54	6.93	-0.90	14.14	13.54	0.00	0.25	5.98	1.37	-4.50	13.65	0.37	0.11	10.23	-8.59	2.45	-1.54	-2.17	**51.3**
5035	997	1,3,7,9,10,16,18,19,22,24,29,39,41,43,47,46,48,51	4.81	0.66	14.35	1.13	-10.12	-0.60	4.55	-3.07	-2.77	4.14	0.17	2.02	15.78	23.02	1.06	-1.54	-2.17	**51.4**
5036	3772	2,4,7,11,13,12,14,30,31,34,36,39,41,43,47,46,48,52,53,54	6.67	-0.90	14.02	13.84	0.45	-0.60	6.70	5.78	-4.19	13.60	0.22	0.11	9.92	-7.27	-3.11	-1.54	-2.17	**51.5**
5037	5268	2,5,22,24,29,39,41,40,42,49,53,54	0.41	0.40	15.16	-12.12	-14.26	-1.46	-2.62	-0.22	5.12	16.24	-3.35	5.84	17.78	21.05	-0.33	2.28	1.66	**51.6**
5038	4362	2,4,7,9,10,12,14,30,31,34,35,37,40,41,45,55	6.99	-0.64	10.46	8.69	4.05	4.54	4.55	1.84	1.95	7.65	1.10	-1.80	9.88	-0.69	-3.11	-1.54	-2.17	**51.7**
5039	187	1,3,7,11,13,16,18,19,22,25,29,39,41,43,47,46,48,51	4.09	0.40	14.48	0.89	-8.02	-0.60	5.98	1.97	-3.45	4.27	-0.09	2.02	15.76	16.77	1.06	-1.54	-2.17	**51.8**
5040	486	1,3,7,11,17,19,22,24,29,39,45,55	2.75	-0.38	14.36	-1.04	-7.51	1.11	3.11	4.19	5.89	9.45	-0.89	-1.80	15.10	10.18	1.06	-1.54	-2.17	**51.9**
5041	4758	2,4,7,9,10,16,18,19,22,24,29,39,45,55	2.98	0.14	13.84	-2.41	-6.25	0.25	1.68	-1.17	4.82	9.77	-0.98	-1.80	14.82	23.02	-3.11	-1.54	-2.17	**51.9**
5042	5263	2,5,22,24,29,36,38,43,47,49,53,54	-0.19	0.66	8.51	-10.01	-7.36	1.11	-4.77	0.68	6.54	8.51	-2.07	5.84	13.51	21.05	-0.33	2.28	8.05	**52.0**
5043	2092	1,6,9,11,13,16,18,19,22,25,29,39,45,55	2.52	-0.12	14.09	-2.96	-4.60	1.11	2.40	-0.52	3.82	9.95	-1.08	-1.80	15.11	15.45	2.45	-1.54	-2.17	**52.1**
5044	2904	2,4,3,6,10,16,18,19,22,25,29,36,35,37,40,41,45,55	6.74	0.92	10.32	-2.18	-1.44	3.68	2.40	-6.45	2.84	2.27	0.78	-1.80	16.04	22.04	-0.33	-1.54	-2.17	**52.1**
5045	5086	2,5,19,18,21,27,26,31,34,36,39,41,40,42,49,53,54	2.41	2.48	10.79	-7.76	-9.63	1.97	-1.91	1.22	5.27	16.08	-2.71	5.84	15.47	5.24	-0.33	6.10	1.66	**52.2**
5046	3610	2,4,3,6,9,11,17,19,22,24,29,36,35,37,40,41,45,55	7.41	1.70	11.46	1.70	-4.13	3.68	3.11	-1.59	5.70	1.56	1.27	-1.80	17.35	8.86	-0.33	-1.54	-2.17	**52.3**
5047	5252	2,5,22,24,29,36,35,37,42,46,48,52,53,54	2.47	0.40	15.44	-4.75	-15.43	0.25	-1.91	-2.87	4.74	7.61	-0.93	5.84	16.74	21.05	-0.33	2.28	1.66	**52.3**
5048	3948	2,4,7,11,13,16,18,19,22,25,29,39,45,55	2.26	-0.12	13.97	-2.66	-4.15	0.25	3.11	3.88	4.14	9.90	-1.24	-1.80	14.80	16.77	-3.11	-1.54	-2.17	**52.3**
5049	1228	1,3,7,9,8,14,30,31,34,36,39,45,55	5.62	-1.41	22.28	3.73	-1.89	1.97	5.26	0.82	-6.89	17.52	-0.17	0.11	16.96	-8.92	1.06	-1.54	-2.17	**52.3**
5050	3193	2,4,3,6,9,11,13,12,14,32,46,47,50,54	5.11	-0.38	9.80	5.95	5.67	2.82	7.41	-1.98	3.84	6.29	0.56	-1.80	11.48	-3.32	-0.33	-1.54	2.94	**52.5**
5051	5177	2,5,19,21,27,26,31,34,36,39,41,43,47,49,53,54	2.29	2.48	10.71	-7.36	-9.41	1.97	-1.91	1.22	5.27	16.28	-2.72	5.84	15.25	5.24	-0.33	6.10	1.66	**52.6**
5052	4494	2,4,7,9,10,13,17,19,22,24,29,36,35,37,40,41,45,55	7.26	1.70	10.80	-0.34	-4.39	3.68	3.11	-1.74	4.94	1.77	1.07	-1.80	16.64	16.77	-3.11	-1.54	-2.17	**52.6**
5053	616	1,3,7,9,10,12,14,30,31,34,36,39,41,40,42,46,48,52,53,54	6.81	-0.64	13.50	11.18	-0.44	0.25	5.98	1.22	-5.27	13.66	0.14	0.11	9.56	-0.69	1.06	-1.54	-2.17	**52.7**
5054	5271	2,5,22,24,29,39,41,43,47,49,53,54	0.41	0.92	15.17	-11.72	-14.04	-1.46	-2.62	-0.22	5.12	16.43	-3.34	5.84	17.82	21.05	-0.33	2.28	1.66	**53.0**
5055	143	1,3,7,11,13,16,18,19,22,24,29,36,38,40,42,46,48,51	4.13	0.66	8.28	4.37	-3.23	1.97	3.11	2.78	-0.28	-4.27	1.54	2.02	11.94	16.44	1.06	-1.54	4.21	**53.2**
5056	1652	1,6,10,16,18,19,22,25,29,36,35,37,40,41,45,55	6.56	-0.12	10.23	-3.01	-1.95	4.54	2.40	-6.05	2.84	2.24	0.77	-1.80	15.82	22.04	2.45	-1.54	-2.17	**53.2**
5057	3154	2,4,3,6,9,11,13,12,14,30,31,34,35,37,40,41,45,55	7.35	-0.12	11.27	11.13	4.54	4.54	4.55	2.00	2.71	7.44	1.37	-1.80	10.92	-8.59	-0.33	-1.54	-2.17	**53.3**
5058	2358	1,6,9,11,17,19,22,24,29,36,35,37,40,41,45,55	7.24	0.66	11.37	0.87	-4.63	4.54	3.11	-1.19	5.70	1.54	1.26	-1.80	17.13	8.86	2.45	-1.54	-2.17	**53.4**
5059	636	1,3,7,9,10,12,14,30,33,37,40,41,45,55	6.86	-1.15	10.29	8.24	2.03	5.39	5.26	2.24	0.74	7.72	1.08	-1.80	9.88	-0.69	1.06	-1.54	-2.17	**53.4**
5060	5013	2,5,19,18,19,22,24,29,36,35,37,40,43,47,49,53,54	1.76	1.96	10.01	-9.85	-10.95	2.82	-3.34	-0.79	5.24	8.43	-1.81	5.84	17.52	23.02	-0.33	2.28	1.66	**53.5**

Table F-3: Weighted, Sorted Z-scores for All Routes

		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
5061	646	1,3,7,9,10,12,14,32,46,49,53,54	4.69	-1.15	8.93	2.90	4.80	1.97	6.70	0.35	0.75	5.70	0.48	0.11	10.30	4.58	1.06	-1.54	2.94	**53.5**
5062	5089	2,5,19,18,21,27,26,31,34,36,39,41,43,47,49,53,54	2.41	3.00	10.80	-7.36	-9.41	1.97	-1.91	1.22	5.27	16.28	-2.71	5.84	15.51	5.24	-0.33	6.10	1.66	**53.6**
5063	4214	2,4,7,11,17,19,22,24,29,36,35,37,40,41,45,55	6.98	0.66	11.25	1.17	-4.18	3.68	3.83	3.22	6.01	1.48	1.11	-1.80	16.82	10.18	-3.11	-1.54	-2.17	**53.6**
5064	153	1,3,7,11,13,16,18,19,22,24,29,39,41,40,42,46,48,51	4.73	0.40	14.94	2.65	-9.91	-0.60	5.26	1.88	-1.69	3.65	0.27	2.02	16.25	16.44	1.06	-1.54	-2.17	**53.6**
5065	1941	1,6,9,11,13,12,14,32,46,47,50,54	4.93	-1.41	9.72	5.12	5.16	3.68	7.41	-1.58	3.84	6.26	0.54	-1.80	11.25	-3.32	2.45	-1.54	2.94	**53.6**
5066	5257	2,5,22,24,29,36,38,40,42,47,50,54	-0.06	0.92	8.65	-10.15	-7.44	2.82	-4.06	-1.40	8.86	9.07	-2.26	3.93	13.79	21.05	-0.33	2.28	8.05	**53.7**
5067	5173	2,5,19,21,27,26,31,34,36,39,41,40,42,47,50,54	2.42	2.22	10.85	-7.50	-9.49	3.68	-1.19	-0.87	7.59	16.85	-2.91	3.93	15.54	5.24	-0.33	6.10	1.66	**53.8**
5068	149	1,3,7,11,13,16,18,19,22,24,29,36,38,43,47,46,48,51	4.13	0.40	8.29	4.77	-3.01	1.97	3.11	2.78	-0.28	-4.08	1.55	2.02	11.98	16.44	1.06	-1.54	4.21	**53.8**
5069	3797	2,4,7,11,13,12,14,32,46,47,50,54	4.68	-1.41	9.60	5.42	5.61	2.82	8.13	2.82	4.15	6.20	0.39	-1.80	10.94	-2.01	-3.11	-1.54	2.94	**53.8**
5070	620	1,3,7,9,10,12,14,30,31,34,36,39,41,43,47,46,48,52,53,54	6.82	-0.38	13.51	11.58	-0.22	0.25	5.98	1.22	-5.27	13.86	0.14	0.11	9.59	-0.69	1.06	-1.54	-2.17	**53.9**
5071	3314	2,4,3,6,9,11,13,16,18,19,22,24,29,39,45,55	3.34	1.18	14.65	0.03	-5.76	0.25	1.68	-1.02	5.58	9.56	-0.71	-1.80	15.86	15.12	-0.33	-1.54	-2.17	**53.9**
5072	5278	2,5,22,25,29,36,35,37,40,43,47,46,48,52,53,54	2.22	0.92	15.28	-6.52	-13.54	1.97	-1.19	-2.78	2.99	8.23	-1.26	5.84	16.88	21.38	-0.33	2.28	1.66	**54.0**
5073	1032	1,3,7,9,10,16,18,19,22,25,29,39,45,55	2.41	-0.12	13.46	-4.92	-4.82	1.11	2.40	-0.68	3.06	10.16	-1.31	-1.80	14.48	23.35	1.06	-1.54	-2.17	**54.1**
5074	5289	2,5,22,25,29,36,38,41,44,55	0.70	-0.38	14.03	-13.72	-6.55	0.25	-4.06	-2.02	6.09	9.04	-2.15	3.93	17.67	21.38	-0.33	2.28	8.05	**54.2**
5075	5267	2,5,22,24,29,39,41,40,42,47,50,54	0.54	0.66	15.31	-11.86	-14.11	0.25	-1.91	-2.30	7.45	17.00	-3.53	3.93	18.10	21.05	-0.33	2.28	1.66	**54.2**
5076	1902	1,6,9,11,13,12,14,30,31,34,35,37,40,41,45,55	7.17	-1.15	11.18	10.31	4.03	5.39	4.55	2.40	2.71	7.41	1.36	-1.80	10.70	-8.59	2.45	-1.54	-2.17	**54.4**
5077	3758	2,4,7,11,13,12,14,30,31,34,35,37,40,41,45,55	6.91	-1.15	11.06	10.60	4.48	4.54	5.26	6.80	3.03	7.36	1.21	-1.80	10.39	-7.27	-3.11	-1.54	-2.17	**54.6**
5078	2515	2,4,3,6,10,12,14,30,31,34,36,39,41,40,42,46,48,51	7.82	-0.64	16.23	13.98	-2.83	1.11	5.98	-4.69	-6.10	13.77	0.52	2.02	13.60	-2.01	-0.33	-1.54	-2.17	**54.7**
5079	157	1,3,7,11,13,16,18,19,22,24,29,39,41,43,47,46,48,51	4.74	0.66	14.95	3.05	-9.69	-0.60	5.26	1.88	-1.69	3.85	0.28	2.02	16.29	16.44	1.06	-1.54	-2.17	**54.8**
5080	5085	2,5,19,18,21,27,26,31,34,36,39,41,40,42,47,50,54	2.54	2.74	10.94	-7.50	-9.49	3.68	-1.19	-0.87	7.59	16.85	-2.90	3.93	15.80	5.24	-0.33	6.10	1.66	**54.8**
5081	768	1,3,7,9,10,13,17,19,22,25,29,36,35,37,40,41,45,55	6.68	1.44	10.42	-2.85	-2.96	4.54	3.83	-1.25	3.18	2.16	0.74	-1.80	16.30	17.10	1.06	-1.54	-2.17	**54.9**
5082	2062	1,6,9,11,13,16,18,19,22,24,29,39,45,55	3.16	0.14	14.56	-0.79	-6.27	1.11	1.68	-0.62	5.58	9.53	-0.72	-1.80	15.64	15.12	2.45	-1.54	-2.17	**55.1**
5083	2874	2,4,3,6,10,16,18,19,22,24,29,36,35,37,40,41,45,55	7.38	1.18	10.78	-0.02	-3.11	3.68	1.68	-6.55	4.59	1.85	1.15	-1.80	16.57	21.71	-0.33	-1.54	-2.17	**55.1**
5084	5039	2,5,19,18,19,22,25,29,36,35,37,40,41,44,55	2.64	0.40	15.53	-13.57	-10.14	1.97	-2.62	-3.49	4.79	8.97	-1.88	3.93	21.68	23.35	-0.33	2.28	1.66	**55.2**
5085	3918	2,4,7,11,13,16,18,19,22,24,29,39,45,55	2.91	0.14	14.44	-0.50	-5.82	0.25	2.40	3.79	5.89	9.48	-0.87	-1.80	15.33	16.44	-3.11	-1.54	-2.17	**55.3**
5086	12	1,3,7,11,13,12,14,30,31,34,36,39,41,40,42,46,48,52,53,54	6.74	-1.15	14.10	13.10	-0.01	0.25	6.70	6.18	-4.19	13.37	0.25	0.11	10.06	-7.27	1.06	-1.54	-2.17	**55.6**
5087	488	1,3,7,11,17,19,22,25,29,36,35,37,40,41,45,55	6.40	0.40	10.87	-1.34	-2.76	4.54	4.55	3.71	4.26	1.87	0.78	-1.80	16.47	10.51	1.06	-1.54	-2.17	**55.8**
5088	4760	2,4,7,9,10,16,18,19,22,25,29,36,35,37,40,41,45,55	6.64	0.92	10.35	-2.71	-1.50	3.68	3.11	-1.65	3.18	2.19	0.68	-1.80	16.19	23.35	-3.11	-1.54	-2.17	**55.8**
5089	2519	2,4,3,6,10,12,14,30,31,34,36,39,41,43,47,46,48,51	7.83	-0.38	16.24	14.38	-2.61	1.11	5.98	-4.69	-6.10	13.97	0.53	2.02	13.63	-2.01	-0.33	-1.54	-2.17	**55.9**
5090	1263	1,6,10,12,14,30,31,34,36,39,41,40,42,46,48,51	7.65	-1.67	16.14	13.16	-3.34	1.97	5.98	-4.29	-6.10	13.74	0.51	2.02	13.37	-2.01	2.45	-1.54	-2.17	**55.9**
5091	5181	2,5,19,21,27,26,31,34,38,40,42,46,48,51	2.17	1.18	11.46	-1.76	-9.90	4.54	-0.47	-0.68	5.69	3.69	-0.28	7.74	13.61	5.24	-0.33	6.10	8.05	**56.0**
5092	645	1,3,7,9,10,12,14,32,46,47,50,54	4.82	-0.90	9.09	3.16	4.94	3.68	7.41	-1.74	3.08	6.46	0.32	-1.80	10.62	4.58	1.06	-1.54	2.94	**56.2**
5093	1622	1,6,10,16,18,19,22,24,29,36,35,37,40,41,45,55	7.21	0.14	10.70	-0.84	-3.61	4.54	1.68	-6.15	4.59	1.83	1.14	-1.80	16.35	21.71	2.45	-1.54	-2.17	**56.2**
5094	32	1,3,7,11,13,12,14,30,33,37,40,41,45,55	6.79	-1.67	10.89	10.15	2.46	5.39	5.98	7.20	1.82	7.43	1.19	-1.80	10.39	-7.27	1.06	-1.54	-2.17	**56.3**
5095	2682	2,4,3,6,10,13,17,19,22,25,29,36,38,41,45,55	6.44	1.18	10.01	-2.14	0.91	2.82	3.11	-4.98	4.13	2.34	0.73	-1.80	15.42	15.78	-0.33	-1.54	4.21	**56.3**
5096	42	1,3,7,11,13,12,14,32,46,49,53,54	4.61	-1.67	9.53	4.82	5.23	1.97	7.41	5.31	1.83	5.41	0.59	0.11	10.80	-2.01	1.06	-1.54	2.94	**56.4**
5097	5187	2,5,19,21,27,26,31,34,38,43,47,46,48,51	2.17	0.92	11.47	-1.36	-9.68	4.54	-0.47	-0.68	5.69	3.89	-0.27	7.74	13.65	5.24	-0.33	6.10	8.05	**56.7**
5098	16	1,3,7,11,13,12,14,30,31,34,36,39,41,43,47,46,48,52,53,54	6.74	-0.90	14.11	13.50	0.21	0.25	6.70	6.18	-4.19	13.57	0.25	0.11	10.10	-7.27	1.06	-1.54	-2.17	**56.7**
5099	5093	2,5,19,18,21,27,26,31,34,38,40,42,46,48,51	2.29	1.44	11.55	-1.76	-9.90	4.54	-0.47	-0.68	5.69	3.69	-0.26	7.74	13.87	5.24	-0.33	6.10	8.05	**56.8**
5100	606	1,3,7,9,10,12,14,30,31,34,35,37,40,41,45,55	7.06	-0.64	10.55	8.34	3.81	5.39	4.55	2.24	1.95	7.62	1.14	-1.80	10.06	-0.69	1.06	-1.54	-2.17	**56.9**
5101	5248	2,5,22,24,29,36,35,37,40,43,47,46,48,52,53,54	2.87	1.18	15.74	-4.36	-15.21	1.97	-1.91	-2.87	4.74	7.81	-0.90	5.84	17.41	21.05	-0.33	2.28	1.66	**57.0**
5102	1267	1,6,10,12,14,30,31,34,36,39,41,43,47,46,48,51	7.65	-1.41	16.16	13.56	-3.12	1.97	5.98	-4.29	-6.10	13.94	0.51	2.02	13.41	-2.01	2.45	-1.54	-2.17	**57.0**
5103	1002	1,3,7,9,10,16,18,19,22,24,29,39,45,55	3.05	0.14	13.93	-2.76	-6.49	1.11	1.68	-0.77	4.82	9.74	-0.94	-1.80	15.00	23.02	1.06	-1.54	-2.17	**57.1**
5104	5058	2,5,19,18,19,22,25,29,36,38,43,50,54	0.54	0.40	9.10	-12.76	-6.02	1.97	-1.91	-1.31	7.11	9.19	-2.49	3.93	16.05	23.35	-0.33	2.28	8.05	**57.1**
5105	5259	2,5,22,24,29,36,38,41,44,55	1.34	-0.12	14.50	-11.56	-8.22	0.25	-4.77	-2.11	7.84	8.62	-1.79	3.93	18.19	21.05	-0.33	2.28	8.05	**57.2**
5106	5099	2,5,19,18,21,27,26,31,34,38,43,47,46,48,51	2.30	1.18	11.56	-1.36	-9.68	4.54	-0.47	-0.68	5.69	3.89	-0.26	7.74	13.90	5.24	-0.33	6.10	8.05	**57.4**
5107	1430	1,6,10,13,17,19,22,25,29,36,38,41,45,55	6.27	0.14	9.92	-2.96	0.41	3.68	3.11	-4.58	4.13	2.31	0.71	-1.80	15.19	15.78	2.45	-1.54	4.21	**57.4**
5108	192	1,3,7,11,13,16,18,19,22,25,29,39,45,55	2.33	-0.12	14.06	-3.00	-4.39	1.11	3.11	4.28	4.14	9.87	-1.20	-1.80	14.98	16.77	1.06	-1.54	-2.17	**57.5**
5109	738	1,3,7,9,10,13,17,19,22,24,29,36,35,37,40,41,45,55	7.33	1.70	10.89	-0.69	-4.63	4.54	3.11	-1.34	4.94	1.74	1.10	-1.80	16.82	16.77	1.06	-1.54	-2.17	**57.8**
5110	3316	2,4,3,6,9,11,13,16,18,19,22,25,29,36,35,37,40,41,45,55	6.99	1.96	11.16	-0.27	-1.01	3.68	3.11	-1.50	3.94	1.98	0.96	-1.80	17.23	15.45	-0.33	-1.54	-2.17	**57.8**
5111	2530	2,4,3,6,10,12,14,30,31,34,38,41,45,55	6.82	-1.15	10.13	9.06	7.69	3.68	3.83	-1.49	2.90	7.80	1.13	-1.80	9.18	-2.01	-0.33	-1.54	4.21	**58.1**
5112	5066	2,5,19,18,19,22,25,29,39,41,43,50,54	1.14	0.66	15.76	-14.48	-12.70	-0.60	0.25	-2.21	5.69	17.11	-3.76	3.93	20.36	23.35	-0.33	2.28	1.66	**58.1**
5113	5009	2,5,19,18,19,22,24,29,36,35,37,40,41,44,55	3.29	0.66	16.00	-11.40	-11.80	1.97	-3.34	-3.58	6.55	8.55	-1.52	3.93	22.21	23.02	-0.33	2.28	1.66	**58.1**
5114	4371	2,4,7,9,10,12,14,30,31,34,36,39,41,40,42,46,48,51	7.72	-0.64	16.26	13.46	-2.89	1.11	6.70	0.11	-5.76	13.69	0.42	2.02	13.74	-0.69	-3.11	-1.54	-2.17	**58.4**
5115	458	1,3,7,11,17,19,22,24,29,36,35,37,40,41,45,55	7.05	0.66	11.34	0.83	-4.42	4.54	3.83	3.62	6.01	1.45	1.14	-1.80	17.00	10.18	1.06	-1.54	-2.17	**58.8**

Table F-3: Weighted, Sorted Z-scores for All Routes

		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
5116	4730	2,4,7,9,10,16,18,19,22,24,29,36,35,37,40,41,45,55	7.28	1.18	10.82	-0.55	-3.16	3.68	2.40	-1.74	4.94	1.77	1.05	-1.80	16.71	23.02	-3.11	-1.54	-2.17	**58.8**
5117	2064	1,6,9,11,13,16,18,19,22,25,29,36,35,37,40,41,45,55	6.82	0.92	11.07	-1.09	-1.51	4.54	3.11	-1.10	3.94	1.95	0.94	-1.80	17.00	15.45	2.45	-1.54	-2.17	**59.0**
5118	41	1,3,7,11,13,12,14,32,46,47,50,54	4.74	-1.41	9.68	5.08	5.38	3.68	8.13	3.22	4.15	6.17	0.43	-1.80	11.12	-2.01	1.06	-1.54	2.94	**59.0**
5119	3920	2,4,7,11,13,16,18,19,22,25,29,36,35,37,40,41,45,55	6.56	0.92	10.95	-0.79	-1.07	3.68	3.83	3.31	4.26	1.90	0.79	-1.80	16.69	16.77	-3.11	-1.54	-2.17	**59.2**
5120	1278	1,6,10,12,14,30,31,34,38,41,45,55	6.64	-2.19	10.05	8.24	7.19	4.54	3.83	-1.09	2.90	7.77	1.11	-1.80	8.96	-2.01	2.45	-1.54	4.21	**59.3**
5121	2652	2,4,3,6,10,13,17,19,22,24,29,36,38,41,45,55	7.09	1.44	10.48	0.03	-0.75	2.82	2.40	-5.08	5.89	1.93	1.09	-1.80	15.94	15.45	-0.33	-1.54	4.21	**59.3**
5122	5226	2,5,19,21,28,34,36,39,41,40,42,46,48,52,53,54	4.57	0.92	16.87	-2.13	-12.86	1.97	0.96	-0.87	3.35	16.78	-1.96	5.84	17.14	5.24	-0.33	2.28	1.66	**59.4**
5123	5052	2,5,19,18,19,22,25,29,36,38,40,42,49,53,54	0.83	0.92	9.24	-12.57	-5.92	1.97	-2.62	0.77	4.78	8.73	-2.25	5.84	16.40	23.35	-0.33	2.28	8.05	**59.5**
5124	4375	2,4,7,9,10,12,14,30,31,34,36,39,41,43,47,46,48,51	7.73	-0.38	16.27	13.85	-2.67	1.11	6.70	0.11	-5.76	13.89	0.43	2.02	13.78	-0.69	-3.11	-1.54	-2.17	**59.6**
5125	3654	2,4,3,6,9,11,17,19,22,25,29,36,38,41,45,55	6.49	1.18	10.70	-0.62	1.12	2.82	3.83	-0.03	5.24	2.05	0.83	-1.80	16.27	9.19	-0.33	-1.54	4.21	**59.6**
5126	2	1,3,7,11,13,12,14,30,31,34,35,37,40,41,45,55	6.98	-1.15	11.15	10.26	4.25	5.39	5.26	7.20	3.03	7.33	1.25	-1.80	10.57	-7.27	1.06	-1.54	-2.17	**59.8**
5127	5062	2,5,19,18,19,22,25,29,39,41,40,42,49,53,54	1.44	0.66	15.90	-14.29	-12.59	-0.60	-0.47	-0.12	3.37	16.65	-3.52	5.84	20.71	23.35	-0.33	2.28	1.66	**59.9**
5128	3163	2,4,3,6,9,11,13,12,14,30,31,34,36,39,41,40,42,46,48,51	8.08	-0.12	17.07	15.90	-2.40	1.11	6.70	0.26	-4.99	13.48	0.70	2.02	14.78	-8.59	-0.33	-1.54	-2.17	**59.9**
5129	4538	2,4,7,9,10,13,17,19,22,25,29,36,38,41,45,55	6.34	1.18	10.04	-2.66	0.86	2.82	3.83	-0.18	4.47	2.26	0.63	-1.80	15.56	17.10	-3.11	-1.54	4.21	**60.0**
5130	5028	2,5,19,18,19,22,24,29,36,38,43,50,54	1.19	0.66	9.56	-10.60	-7.69	1.97	-2.62	-1.40	8.86	8.77	-2.12	3.93	16.57	23.02	-0.33	2.28	8.05	**60.1**
5131	5281	2,5,22,25,29,36,35,37,42,46,48,51	2.81	0.14	17.83	-4.99	-16.45	1.97	-0.47	-3.49	2.50	8.03	-0.98	7.74	20.58	21.38	-0.33	2.28	1.66	**60.2**
5132	5057	2,5,19,18,19,22,25,29,36,38,43,47,49,53,54	0.84	0.92	9.25	-12.17	-5.70	1.97	-2.62	0.77	4.78	8.92	-2.25	5.84	16.44	23.35	-0.33	2.28	8.05	**60.3**
5133	1400	1,6,10,13,17,19,22,24,29,36,38,41,45,55	6.91	0.40	10.39	-0.79	-1.25	3.68	2.40	-4.68	5.89	1.90	1.08	-1.80	15.72	15.45	2.45	-1.54	4.21	**60.4**
5134	5204	2,5,19,21,28,31,30,32,48,52,53,54	2.85	0.92	17.52	-15.30	-14.70	5.39	4.55	-3.82	8.87	8.34	-1.45	2.02	24.02	12.49	-0.33	2.28	6.77	**60.4**
5135	5138	2,5,19,18,21,28,34,36,39,41,40,42,46,48,52,53,54	4.69	1.44	16.96	-2.13	-12.86	1.97	0.96	-0.87	3.35	16.78	-1.95	5.84	17.39	5.24	-0.33	2.28	1.66	**60.4**
5136	162	1,3,7,11,13,16,18,19,22,24,29,39,45,55	2.98	0.14	14.53	-0.84	-6.06	1.11	2.40	4.19	5.89	9.45	-0.83	-1.80	15.51	16.44	1.06	-1.54	-2.17	**60.4**
5137	5230	2,5,19,21,28,34,36,39,41,43,47,46,48,52,53,54	4.57	1.18	16.89	-1.73	-12.64	1.97	0.96	-0.87	3.35	16.97	-1.95	5.84	17.17	5.24	-0.33	2.28	1.66	**60.6**
5138	5046	2,5,19,18,19,22,25,29,36,35,37,42,46,48,52,53,54	3.50	0.66	16.19	-6.92	-13.76	1.11	0.25	-2.78	2.99	8.03	-1.11	5.84	19.68	23.35	-0.33	2.28	1.66	**60.6**
5139	2402	1,6,9,11,17,19,22,25,29,36,38,41,45,55	6.32	0.14	10.61	-1.44	0.62	3.68	3.83	0.37	5.24	2.02	0.81	-1.80	16.04	9.19	2.45	-1.54	4.21	**60.8**
5140	3286	2,4,3,6,9,11,13,16,18,19,22,24,29,36,35,37,40,41,45,55	7.64	2.22	11.62	1.90	-2.67	3.68	2.40	-1.59	5.70	1.56	1.32	-1.80	17.75	15.12	-0.33	-1.54	-2.17	**60.8**
5141	4258	2,4,7,11,17,19,22,25,29,36,38,41,45,55	6.06	0.14	10.49	-1.15	1.07	2.82	4.55	4.78	5.55	1.97	0.66	-1.80	15.73	10.51	-3.11	-1.54	4.21	**61.0**
5142	1004	1,3,7,9,10,16,18,19,22,25,29,36,35,37,40,41,45,55	6.71	0.92	10.44	-3.05	-1.73	4.54	3.11	-1.25	3.18	2.16	0.72	-1.80	16.37	23.35	1.06	-1.54	-2.17	**61.0**
5143	5036	2,5,19,18,19,22,24,29,39,41,43,50,54	1.79	0.92	16.23	-12.31	-14.36	-0.60	-0.47	-2.30	7.45	16.70	-3.39	3.93	20.88	23.02	-0.33	2.28	1.66	**61.1**
5144	3167	2,4,3,6,9,11,13,12,14,30,31,34,36,39,41,43,47,46,48,51	8.09	0.14	17.08	16.30	-2.18	1.11	6.70	0.26	-4.99	13.68	0.70	2.02	14.82	-8.59	-0.33	-1.54	-2.17	**61.1**
5145	1911	1,6,9,11,13,12,14,30,31,34,36,39,41,40,42,46,48,51	7.90	-1.15	16.98	15.08	-2.90	1.97	6.70	0.66	-4.99	13.45	0.68	2.02	14.56	-8.59	2.45	-1.54	-2.17	**61.1**
5146	3767	2,4,7,11,13,12,14,30,31,34,36,39,41,40,42,46,48,51	7.65	-1.15	16.86	15.37	-2.46	1.11	7.41	5.07	-4.68	13.40	0.53	2.02	14.25	-7.27	-3.11	-1.54	-2.17	**61.3**
5147	5065	2,5,19,18,19,22,25,29,39,41,43,47,49,53,54	1.44	1.18	15.91	-13.89	-12.37	-0.60	-0.47	-0.12	3.37	16.85	-3.52	5.84	20.75	23.35	-0.33	2.28	1.66	**61.3**
5148	5116	2,5,19,18,21,28,31,30,32,48,52,53,54	2.98	1.44	17.61	-15.30	-14.70	5.39	4.55	-3.82	8.87	8.34	-1.44	2.02	24.28	12.49	-0.33	2.28	6.77	**61.4**
5149	2524	2,4,3,6,10,12,14,30,31,34,36,39,45,55	6.07	-0.90	15.82	10.49	1.02	2.82	3.11	-2.39	1.49	19.57	-0.58	-1.80	12.85	-2.01	-0.33	-1.54	-2.17	**61.5**
5150	5142	2,5,19,18,21,28,34,36,39,41,43,47,46,48,52,53,54	4.70	1.70	16.98	-1.73	-12.64	1.97	0.96	-0.87	3.35	16.97	-1.94	5.84	17.43	5.24	-0.33	2.28	1.66	**61.6**
5151	4386	2,4,7,9,10,12,14,30,31,34,38,41,45,55	6.72	-1.15	10.17	8.53	7.64	3.68	4.55	3.31	3.24	7.72	1.02	-1.80	9.33	-0.69	-3.11	-1.54	4.21	**61.8**
5152	2034	1,6,9,11,13,16,18,19,22,24,29,36,35,37,40,41,45,55	7.46	1.18	11.53	1.08	-3.18	4.54	2.40	-1.19	5.70	1.54	1.31	-1.80	17.53	15.12	2.45	-1.54	-2.17	**61.9**
5153	5206	2,5,19,21,28,31,33,37,40,41,45,55	4.90	0.92	13.87	-5.07	-10.40	7.11	0.25	0.15	9.37	10.98	-0.94	3.93	18.04	5.24	-0.33	2.28	1.66	**62.0**
5154	5051	2,5,19,18,19,22,25,29,36,38,40,42,47,50,54	0.97	1.18	9.40	-12.31	-5.78	3.68	-1.91	-1.31	7.11	9.49	-2.44	3.93	16.73	23.35	-0.33	2.28	8.05	**62.1**
5155	3890	2,4,7,11,13,16,18,19,22,24,29,36,35,37,40,41,45,55	7.21	1.18	11.41	1.37	-2.73	3.68	3.11	3.22	6.01	1.48	1.16	-1.80	17.22	16.44	-3.11	-1.54	-2.17	**62.1**
5156	1915	1,6,9,11,13,12,14,30,31,34,36,39,41,43,47,46,48,51	7.91	-0.90	16.99	15.47	-2.68	1.97	6.70	0.66	-4.99	13.65	0.69	2.02	14.59	-8.59	2.45	-1.54	-2.17	**62.2**
5157	3771	2,4,7,11,13,12,14,30,31,34,36,39,41,43,47,46,48,51	7.65	-0.90	16.87	15.77	-2.24	1.11	7.41	5.07	-4.68	13.60	0.54	2.02	14.28	-7.27	-3.11	-1.54	-2.17	**62.4**
5158	5022	2,5,19,18,19,22,24,29,36,38,40,42,49,53,54	1.48	1.18	9.71	-10.40	-7.58	1.97	-3.34	0.68	6.54	8.31	-1.89	5.84	16.93	23.02	-0.33	2.28	8.05	**62.4**
5159	2918	2,4,3,6,10,16,18,19,22,25,29,36,38,41,45,55	6.46	0.66	10.03	-2.34	2.14	2.82	2.40	-4.98	4.13	2.34	0.71	-1.80	15.49	22.04	-0.33	-1.54	4.21	**62.4**
5160	5061	2,5,19,18,19,22,25,29,39,41,40,42,47,50,54	1.57	0.92	16.06	-14.03	-12.45	1.11	0.25	-2.21	5.69	17.42	-3.70	3.93	21.03	23.35	-0.33	2.28	1.66	**62.5**
5161	3624	2,4,3,6,9,11,17,19,22,24,29,36,38,41,45,55	7.14	1.44	11.17	1.55	-0.54	2.82	3.11	-0.12	6.99	1.64	1.19	-1.80	16.79	8.86	-0.33	-1.54	4.21	**62.6**
5162	1272	1,6,10,12,14,30,31,34,36,39,45,55	5.89	-1.93	15.73	9.67	0.51	3.68	3.11	-1.99	1.49	19.54	-0.60	-1.80	12.63	-2.01	2.45	-1.54	-2.17	**62.7**
5163	5032	2,5,19,18,19,22,24,29,39,41,40,42,49,53,54	2.08	0.92	16.37	-12.12	-14.26	-0.60	-1.19	-0.22	5.12	16.24	-3.16	5.84	21.24	23.02	-0.33	2.28	1.66	**62.9**
5164	5118	2,5,19,18,21,28,31,33,37,40,41,45,55	5.02	1.44	13.96	-5.07	-10.40	7.11	0.25	0.15	9.37	10.98	-0.92	3.93	18.30	5.24	-0.33	2.28	1.66	**63.0**
5165	4508	2,4,7,9,10,13,17,19,22,24,29,36,38,41,45,55	6.99	1.44	10.51	-0.50	-0.80	2.82	3.11	-0.27	6.23	1.84	0.99	-1.80	16.08	16.77	-3.11	-1.54	4.21	**63.0**
5166	5251	2,5,22,24,29,36,35,37,42,46,48,51	3.45	0.40	18.29	-2.82	-18.11	1.97	-1.19	-3.58	4.26	7.61	-0.62	7.74	21.11	21.05	-0.33	2.28	1.66	**63.2**
5167	5286	2,5,22,25,29,36,38,40,42,46,48,52,53,54	1.95	0.40	14.97	-7.07	-10.18	1.11	-1.19	-1.31	4.28	8.10	-1.34	5.84	16.29	21.38	-0.33	2.28	8.05	**63.2**
5168	5027	2,5,19,18,19,22,24,29,36,38,43,47,49,53,54	1.48	1.18	9.72	-10.01	-7.36	1.97	-3.34	0.68	6.54	8.51	-1.88	5.84	16.97	23.02	-0.33	2.28	8.05	**63.3**
5169	3178	2,4,3,6,9,11,13,12,14,30,31,34,38,41,45,55	7.07	-0.64	10.97	10.98	8.13	3.68	4.55	3.47	4.01	7.51	1.30	-1.80	10.36	-8.59	-0.33	-1.54	4.21	**63.3**
5170	1666	1,6,10,16,18,19,22,25,29,36,38,41,45,55	6.29	-0.38	9.94	-3.16	1.64	3.68	2.40	-4.58	4.13	2.31	0.69	-1.80	15.26	22.04	2.45	-1.54	4.21	**63.6**

Table F-3: Weighted, Sorted Z-scores for All Routes

Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
5171	5016	2,5,19,18,19,22,24,29,36,35,37,42,46,48,52,53,54	4.14	0.92	16.65	-4.75	-15.43	1.11	-0.47	-2.87	4.74	7.61	-0.74	5.84	20.20	23.02	-0.33	2.28	1.66	**63.6**
5172	615	1,3,7,9,10,12,14,30,31,34,36,39,41,40,42,46,48,51	7.79	-0.64	16.35	13.11	-3.12	1.97	6.70	0.51	-5.76	13.66	0.46	2.02	13.92	-0.69	1.06	-1.54	-2.17	**63.6**
5173	5216	2,5,19,21,28,34,35,37,40,41,45,55	4.81	0.92	13.92	-4.96	-8.61	7.11	-0.47	0.15	10.57	10.73	-0.96	3.93	17.64	5.24	-0.33	2.28	1.66	**63.6**
5174	5296	2,5,22,25,29,39,41,40,42,46,48,52,53,54	2.55	0.14	21.63	-8.79	-16.85	-1.46	0.96	-2.21	2.87	16.03	-2.61	5.84	20.60	21.38	-0.33	2.28	1.66	**63.7**
5175	2372	1,6,9,11,17,19,22,24,29,36,38,41,45,55	6.96	0.40	11.08	0.72	-1.04	3.68	3.11	0.28	6.99	1.61	1.18	-1.80	16.57	8.86	2.45	-1.54	4.21	**63.7**
5176	5292	2,5,22,25,29,36,38,43,47,46,48,52,53,54	1.95	0.14	14.98	-6.67	-9.96	1.11	-1.19	-1.31	4.28	8.30	-1.34	5.84	16.32	21.38	-0.33	2.28	8.05	**63.8**
5177	4228	2,4,7,11,17,19,22,24,29,36,38,41,45,55	6.71	0.40	10.96	1.02	-0.60	2.82	3.83	4.69	7.31	1.55	1.03	-1.80	16.26	10.18	-3.11	-1.54	4.21	**63.9**
5178	974	1,3,7,9,10,16,18,19,22,24,29,36,35,37,40,41,45,55	7.35	1.18	10.90	-0.89	-3.40	4.54	2.40	-1.34	4.94	1.74	1.08	-1.80	16.89	23.02	1.06	-1.54	-2.17	**64.0**
5179	5035	2,5,19,18,19,22,24,29,39,41,43,47,49,53,54	2.09	1.44	16.38	-11.72	-14.04	-0.60	-1.19	-0.22	5.12	16.43	-3.15	5.84	21.27	23.02	-0.33	2.28	1.66	**64.3**
5180	164	1,3,7,11,13,16,18,19,22,25,29,36,35,37,40,41,45,55	6.63	0.92	11.04	-1.13	-1.30	4.54	3.83	3.71	4.26	1.87	0.83	-1.80	16.87	16.77	1.06	-1.54	-2.17	**64.4**
5181	1926	1,6,9,11,13,12,14,30,31,34,38,41,45,55	6.90	-1.67	10.88	10.16	7.62	4.54	4.55	3.87	4.01	7.48	1.28	-1.80	10.14	-8.59	2.45	-1.54	4.21	**64.5**
5182	5128	2,5,19,18,21,28,34,35,37,40,41,45,55	4.94	1.44	14.01	-4.96	-8.61	7.11	-0.47	0.15	10.57	10.73	-0.95	3.93	17.90	5.24	-0.33	2.28	1.66	**64.6**
5183	3782	2,4,7,11,13,12,14,30,31,34,38,41,45,55	6.64	-1.67	10.76	10.45	8.07	3.68	5.26	8.27	4.32	7.43	1.13	-1.80	9.83	-7.27	-3.11	-1.54	4.21	**64.7**
5184	619	1,3,7,9,10,12,14,30,31,34,36,39,41,43,47,46,48,51	7.80	-0.38	16.36	13.51	-2.90	1.97	6.70	0.51	-5.76	13.86	0.46	2.02	13.96	-0.69	1.06	-1.54	-2.17	**64.8**
5185	5300	2,5,22,25,29,39,41,43,47,46,48,52,53,54	2.55	0.40	21.64	-8.39	-16.63	-1.46	0.96	-2.21	2.87	16.23	-2.60	5.84	20.63	21.38	-0.33	2.28	1.66	**64.8**
5186	5277	2,5,22,25,29,36,35,37,40,43,47,46,48,51	3.20	0.92	18.13	-4.59	-16.23	3.68	-0.47	-3.49	2.50	8.23	-0.94	7.74	21.25	21.38	-0.33	2.28	1.66	**64.9**
5187	5021	2,5,19,18,19,22,24,29,36,38,40,42,47,50,54	1.61	1.44	9.86	-10.15	-7.44	3.68	-2.62	-1.40	8.86	9.07	-2.07	3.93	17.25	23.02	-0.33	2.28	8.05	**65.0**
5188	782	1,3,7,9,10,13,17,19,22,25,29,36,38,41,45,55	6.41	1.18	10.13	-3.00	0.62	3.68	3.83	0.22	4.47	2.23	0.66	-1.80	15.74	17.10	1.06	-1.54	4.21	**65.2**
5189	4380	2,4,7,9,10,12,14,30,31,34,36,39,45,55	5.97	-0.90	15.85	9.96	0.96	2.82	3.83	2.42	1.83	19.49	-0.68	-1.80	13.00	-0.69	-3.11	-1.54	-2.17	**65.2**
5190	5042	2,5,19,18,19,22,25,29,36,35,37,40,43,47,46,48,52,53,54	3.90	1.44	16.49	-6.52	-13.54	2.82	0.25	-2.78	2.99	8.23	-1.07	5.84	20.34	23.35	-0.33	2.28	1.66	**65.3**
5191	2888	2,4,3,6,10,16,18,19,22,24,29,36,38,41,45,55	7.11	0.92	10.49	-0.17	0.48	2.82	1.68	-5.08	5.89	1.93	1.07	-1.80	16.01	21.71	-0.33	-1.54	4.21	**65.4**
5192	5160	2,5,19,21,27,26,30,32,48,52,53,54	3.07	1.44	18.08	-15.44	-15.73	5.39	4.55	-3.82	10.29	6.87	-1.20	2.02	24.86	12.49	-0.33	6.10	6.77	**65.4**
5193	5053	2,5,19,18,19,22,25,29,36,38,41,44,55	2.37	0.14	15.24	-13.72	-6.55	1.11	-2.62	-2.02	6.09	9.04	-1.96	3.93	21.13	23.35	-0.33	2.28	8.05	**65.5**
5194	5031	2,5,19,18,19,22,24,29,39,41,40,42,47,50,54	2.21	1.18	16.52	-11.86	-14.11	1.11	-0.47	-2.30	7.45	17.00	-3.34	3.93	21.56	23.02	-0.33	2.28	1.66	**65.5**
5195	502	1,3,7,11,17,19,22,25,29,36,38,41,45,55	6.13	0.14	10.58	-1.49	0.83	3.68	4.55	5.18	5.55	1.94	0.70	-1.80	15.91	10.51	1.06	-1.54	4.21	**66.2**
5196	4774	2,4,7,9,10,16,18,19,22,25,29,36,38,41,45,55	6.36	0.66	10.06	-2.86	2.09	2.82	3.11	-0.18	4.47	2.26	0.61	-1.80	15.63	23.35	-3.11	-1.54	4.21	**66.2**
5197	5256	2,5,22,24,29,36,38,40,42,46,48,52,53,54	2.59	0.66	15.44	-4.91	-11.84	1.11	-1.91	-1.40	6.04	7.68	-0.98	5.84	16.81	21.05	-0.33	2.28	8.05	**66.2**
5198	5172	2,5,19,21,27,26,31,34,36,39,41,40,42,46,48,52,53,54	5.07	1.96	17.64	-2.26	-13.89	1.97	0.96	-0.87	4.77	15.46	-1.62	5.84	18.56	5.24	-0.33	6.10	1.66	**66.2**
5199	5072	2,5,19,18,21,27,26,30,32,48,52,53,54	3.20	1.96	18.17	-15.44	-15.73	5.39	4.55	-3.82	10.29	6.87	-1.18	2.02	25.12	12.49	-0.33	6.10	6.77	**66.4**
5200	5192	2,5,19,21,27,26,33,37,40,41,45,55	5.12	0.92	14.43	-5.21	-11.43	7.11	0.25	0.15	10.78	9.52	-0.68	3.93	18.89	5.24	-0.33	6.10	1.66	**66.4**
5201	11	1,3,7,11,13,12,14,30,31,34,36,39,41,40,42,46,48,51	7.72	-1.15	16.95	15.03	-2.69	1.97	7.41	5.47	-4.68	13.37	0.57	2.02	14.43	-7.27	1.06	-1.54	-2.17	**66.5**
5202	1636	1,6,10,16,18,19,22,24,29,36,38,41,45,55	6.93	-0.12	10.40	-0.99	-0.02	3.68	1.68	-4.68	5.89	1.90	1.06	-1.80	15.79	21.71	2.45	-1.54	4.21	**66.5**
5203	5266	2,5,22,24,29,39,41,40,42,46,48,52,53,54	3.19	0.40	22.10	-6.62	-18.51	-1.46	0.25	-2.30	4.62	15.61	-2.24	5.84	21.12	21.05	-0.33	2.28	1.66	**66.6**
5204	3172	2,4,3,6,9,11,13,12,14,30,31,34,36,39,45,55	6.33	-0.38	16.66	12.41	1.45	2.82	3.83	2.57	2.59	19.28	-0.41	-1.80	14.04	-8.59	-0.33	-1.54	-2.17	**66.8**
5205	5262	2,5,22,24,29,36,38,43,47,46,48,52,53,54	2.60	0.40	15.45	-4.51	-11.62	1.11	-1.91	-1.40	6.04	7.88	-0.97	5.84	16.85	21.05	-0.33	2.28	8.05	**66.8**
5206	630	1,3,7,9,10,12,14,30,31,34,38,41,45,55	6.78	-1.15	10.25	8.19	7.40	4.54	4.55	3.71	3.24	7.69	1.06	-1.80	9.51	-0.69	1.06	-1.54	4.21	**67.0**
5207	5084	2,5,19,18,21,27,26,31,34,36,39,41,40,42,46,48,52,53,54	5.19	2.48	17.72	-2.26	-13.89	1.97	0.96	-0.87	4.77	15.46	-1.61	5.84	18.82	5.24	-0.33	6.10	1.66	**67.2**
5208	134	1,3,7,11,13,16,18,19,22,24,29,36,35,37,40,41,45,55	7.27	1.18	11.50	1.03	-2.97	4.54	3.11	3.62	6.01	1.45	1.19	-1.80	17.40	16.44	1.06	-1.54	-2.17	**67.3**
5209	5176	2,5,19,21,27,26,31,34,36,39,41,43,47,46,48,52,53,54	5.07	2.22	17.65	-1.87	-13.67	1.97	0.96	-0.87	4.77	15.66	-1.62	5.84	18.60	5.24	-0.33	6.10	1.66	**67.4**
5210	5104	2,5,19,18,21,27,26,33,37,40,41,45,55	5.24	1.44	14.52	-5.21	-11.43	7.11	0.25	0.15	10.78	9.52	-0.66	3.93	19.14	5.24	-0.33	6.10	1.66	**67.4**
5211	15	1,3,7,11,13,12,14,30,31,34,36,39,41,43,47,46,48,51	7.72	-0.90	16.96	15.43	-2.47	1.97	7.41	5.47	-4.68	13.57	0.57	2.02	14.46	-7.27	1.06	-1.54	-2.17	**67.6**
5212	5270	2,5,22,24,29,39,41,43,47,46,48,52,53,54	3.20	0.66	22.11	-6.22	-18.30	-1.46	0.25	-2.30	4.62	15.81	-2.24	5.84	21.16	21.05	-0.33	2.28	1.66	**67.8**
5213	5247	2,5,22,24,29,36,35,37,40,43,47,46,48,51	3.85	1.18	18.59	-2.42	-17.89	3.68	-1.19	-3.58	4.26	7.81	-0.58	7.74	21.77	21.05	-0.33	2.28	1.66	**67.9**
5214	1920	1,6,9,11,13,12,14,30,31,34,36,39,45,55	6.15	-1.41	16.57	11.59	0.95	3.68	3.83	2.97	2.59	19.25	-0.42	-1.80	13.81	-8.59	2.45	-1.54	-2.17	**67.9**
5215	3776	2,4,7,11,13,12,14,30,31,34,36,39,45,55	5.89	-1.41	16.45	11.88	1.39	2.82	4.55	7.37	2.91	19.20	-0.57	-1.80	13.50	-7.27	-3.11	-1.54	-2.17	**68.1**
5216	752	1,3,7,9,10,13,17,19,22,24,29,36,38,41,45,55	7.05	1.44	10.60	-0.84	-1.04	3.68	3.11	0.13	6.23	1.81	1.03	-1.80	16.26	16.77	1.06	-1.54	4.21	**68.2**
5217	3330	2,4,3,6,9,11,13,16,18,19,22,25,29,36,38,41,45,55	6.72	1.70	10.86	-0.42	2.58	2.82	3.11	-0.03	5.24	2.05	0.88	-1.80	16.67	15.45	-0.33	-1.54	4.21	**68.2**
5218	5012	2,5,19,18,19,22,24,29,36,35,37,40,43,47,46,48,52,53,54	4.54	1.70	16.95	-4.36	-15.21	2.82	-0.47	-2.87	4.74	7.81	-0.71	5.84	20.87	23.02	-0.33	2.28	1.66	**68.3**
5219	5088	2,5,19,18,21,27,26,31,34,36,39,41,43,47,46,48,52,53,54	5.20	2.74	17.74	-1.87	-13.67	1.97	0.96	-0.87	4.77	15.66	-1.60	5.84	18.85	5.24	-0.33	6.10	1.66	**68.4**
5220	5023	2,5,19,18,19,22,24,29,36,38,41,44,55	3.01	0.40	15.71	-11.56	-8.22	1.11	-3.34	-2.11	7.84	8.62	-1.60	3.93	21.65	23.02	-0.33	2.28	8.05	**68.5**
5221	472	1,3,7,11,17,19,22,24,29,36,38,41,45,55	6.77	0.40	11.05	0.68	-0.83	3.68	3.83	5.09	7.31	1.52	1.06	-1.80	16.44	10.18	1.06	-1.54	4.21	**69.1**
5222	4744	2,4,7,9,10,16,18,19,22,24,29,36,38,41,45,55	7.01	0.92	10.52	-0.70	0.43	2.82	2.40	-0.27	6.23	1.84	0.97	-1.80	16.16	23.02	-3.11	-1.54	4.21	**69.1**
5223	2078	1,6,9,11,13,16,18,19,22,25,29,36,38,41,45,55	6.54	0.66	10.78	-1.24	2.07	3.68	3.11	0.37	5.24	2.02	0.86	-1.80	16.45	15.45	2.45	-1.54	4.21	**69.3**
5224	3934	2,4,7,11,13,16,18,19,22,25,29,36,38,41,45,55	6.29	0.66	10.66	-0.95	2.52	2.82	3.83	4.78	5.55	1.97	0.71	-1.80	16.14	16.77	-3.11	-1.54	4.21	**69.5**
5225	26	1,3,7,11,13,12,14,30,31,34,38,41,45,55	6.71	-1.67	10.85	10.11	7.83	4.54	5.26	8.67	4.32	7.40	1.17	-1.80	10.01	-7.27	1.06	-1.54	4.21	**69.9**

Table F-3: Weighted, Sorted Z-scores for All Routes

Rank	Route	Segments	Total length	Heavy angles > 30 degrees	Length not along Transmission Line	Length not along Roads	Length not along Property Lines	Roads crossed	Streams and rivers crossed	Wetland acres in ROW	Woodland acres in ROW	Cropland acres in ROW	Open/Pasture land in ROW	Rare species/ Species of concern polygons crossed	Visibility rating	Residential proximity score	Businesses within 300ft	Public facilities within 300ft	Cultural sites within 1320ft	Sum
		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
5226	5225	2,5,19,21,28,34,36,39,41,40,42,46,48,51	5.55	0.92	19.72	-0.20	-15.55	3.68	1.68	-1.58	2.87	16.78	-1.64	7.74	21.50	5.24	-0.33	2.28	1.66	**70.3**
5227	624	1,3,7,9,10,12,14,30,31,34,36,39,45,55	6.04	-0.90	15.94	9.62	0.73	3.68	3.83	2.82	1.83	19.46	-0.65	-1.80	13.18	-0.69	1.06	-1.54	-2.17	**70.4**
5228	5162	2,5,19,21,27,26,31,34,35,37,40,41,45,55	5.31	1.96	14.68	-5.10	-9.64	7.11	-0.47	0.15	11.99	9.41	-0.63	3.93	19.07	5.24	-0.33	6.10	1.66	**70.4**
5229	5137	2,5,19,18,21,28,34,36,39,41,40,42,46,48,51	5.67	1.18	19.81	-0.20	-15.55	3.68	1.68	-1.58	2.87	16.78	-1.63	7.74	21.76	5.24	-0.33	2.28	1.66	**71.1**
5230	3300	2,4,3,6,9,11,13,16,18,19,22,24,29,36,38,41,45,55	7.37	1.96	11.33	1.75	0.91	2.82	2.40	-0.12	6.99	1.64	1.24	-1.80	17.19	15.12	-0.33	-1.54	4.21	**71.1**
5231	5045	2,5,19,18,19,22,25,29,36,35,37,42,46,48,51	4.48	0.40	19.04	-4.99	-16.45	2.82	0.96	-3.49	2.50	8.03	-0.79	7.74	24.04	23.35	-0.33	2.28	1.66	**71.3**
5232	5203	2,5,19,21,28,31,30,32,48,51	3.83	0.92	20.37	-13.37	-17.39	7.11	5.26	-4.53	8.39	8.34	-1.13	3.93	28.39	12.49	-0.33	2.28	6.77	**71.3**
5233	1018	1,3,7,9,10,16,18,19,22,25,29,36,38,41,45,55	6.43	0.66	10.15	-3.21	1.85	3.68	3.11	0.22	4.47	2.23	0.64	-1.80	15.81	23.35	1.06	-1.54	4.21	**71.3**
5234	5074	2,5,19,18,21,27,26,31,34,35,37,40,41,45,55	5.44	2.48	14.77	-5.10	-9.64	7.11	-0.47	0.15	11.99	9.41	-0.61	3.93	19.32	5.24	-0.33	6.10	1.66	**71.5**
5235	5229	2,5,19,21,28,34,36,39,41,43,47,46,48,51	5.55	1.18	19.74	0.20	-15.33	3.68	1.68	-1.58	2.87	16.97	-1.64	7.74	21.54	5.24	-0.33	2.28	1.66	**71.5**
5236	5115	2,5,19,18,21,28,31,30,32,48,51	3.96	1.18	20.46	-13.37	-17.39	7.11	5.26	-4.53	8.39	8.34	-1.12	3.93	28.64	12.49	-0.33	2.28	6.77	**72.1**
5237	5141	2,5,19,18,21,28,34,36,39,41,43,47,46,48,51	5.68	1.44	19.83	0.20	-15.33	3.68	1.68	-1.58	2.87	16.97	-1.62	7.74	21.79	5.24	-0.33	2.28	1.66	**72.2**
5238	2048	1,6,9,11,13,16,18,19,22,24,29,36,38,41,45,55	7.19	0.92	11.24	0.92	0.41	3.68	2.40	0.28	6.99	1.61	1.23	-1.80	16.97	15.12	2.45	-1.54	4.21	**72.3**
5239	3904	2,4,7,11,13,16,18,19,22,24,29,36,38,41,45,55	6.93	0.92	11.12	1.22	0.86	2.82	3.11	4.69	7.31	1.55	1.08	-1.80	16.66	16.44	-3.11	-1.54	4.21	**72.5**
5240	20	1,3,7,11,13,12,14,30,31,34,36,39,45,55	5.96	-1.41	16.54	11.54	1.16	3.68	4.55	7.77	2.91	19.17	-0.54	-1.80	13.68	-7.27	1.06	-1.54	-2.17	**73.3**
5241	5240	2,5,19,21,28,34,38,41,45,55	4.54	0.40	13.63	-5.12	-5.02	6.25	-0.47	1.63	11.87	10.80	-1.04	3.93	17.09	5.24	-0.33	2.28	8.05	**73.7**
5242	5285	2,5,22,25,29,36,38,40,42,46,48,51	2.92	0.40	17.82	-5.14	-12.86	2.82	-0.47	-2.02	3.79	8.10	-1.02	7.74	20.65	21.38	-0.33	2.28	8.05	**74.1**
5243	5015	2,5,19,18,19,22,24,29,36,35,37,42,46,48,51	5.12	0.66	19.50	-2.82	-18.11	2.82	0.25	-3.58	4.26	7.61	-0.42	7.74	24.57	23.02	-0.33	2.28	1.66	**74.2**
5244	988	1,3,7,9,10,16,18,19,22,24,29,36,38,41,45,55	7.08	0.92	10.61	-1.04	0.19	3.68	2.40	0.13	6.23	1.81	1.01	-1.80	16.34	23.02	1.06	-1.54	4.21	**74.3**
5245	5050	2,5,19,18,19,22,25,29,36,38,40,42,46,48,52,53,54	3.62	0.92	16.18	-7.07	-10.18	1.97	0.25	-1.31	4.28	8.10	-1.15	5.84	19.75	23.35	-0.33	2.28	8.05	**74.5**
5246	5295	2,5,22,25,29,39,41,40,42,46,48,51	3.53	0.14	24.48	-6.85	-19.54	0.25	1.68	-2.92	2.38	16.03	-2.29	7.74	24.96	21.38	-0.33	2.28	1.66	**74.6**
5247	178	1,3,7,11,13,16,18,19,22,25,29,36,38,41,45,55	6.36	0.66	10.74	-1.29	2.28	3.68	3.83	5.18	5.55	1.94	0.75	-1.80	16.32	16.77	1.06	-1.54	4.21	**74.7**
5248	5152	2,5,19,18,21,28,34,38,41,45,55	4.66	0.92	13.72	-5.12	-5.02	6.25	-0.47	1.63	11.87	10.80	-1.03	3.93	17.34	5.24	-0.33	2.28	8.05	**74.7**
5249	5291	2,5,22,25,29,36,38,43,47,46,48,51	2.93	0.14	17.83	-4.74	-12.64	2.82	-0.47	-2.02	3.79	8.30	-1.02	7.74	20.69	21.38	-0.33	2.28	8.05	**74.7**
5250	5060	2,5,19,18,19,22,25,29,39,41,40,42,46,48,52,53,54	4.22	0.66	22.84	-8.79	-16.85	-0.60	2.40	-2.21	2.87	16.03	-2.42	5.84	24.06	23.35	-0.33	2.28	1.66	**75.0**
5251	5056	2,5,19,18,19,22,25,29,36,38,43,47,46,48,52,53,54	3.62	0.66	16.19	-6.67	-9.96	1.97	0.25	-1.31	4.28	8.30	-1.14	5.84	19.78	23.35	-0.33	2.28	8.05	**75.2**
5252	5299	2,5,22,25,29,39,41,43,47,46,48,51	3.53	0.40	24.49	-6.46	-19.32	0.25	1.68	-2.92	2.38	16.23	-2.29	7.74	25.00	21.38	-0.33	2.28	1.66	**75.7**
5253	5041	2,5,19,18,19,22,25,29,36,35,37,40,43,47,46,48,51	4.88	1.18	19.33	-4.59	-16.23	4.54	0.96	-3.49	2.50	8.23	-0.75	7.74	24.70	23.35	-0.33	2.28	1.66	**76.0**
5254	5064	2,5,19,18,19,22,25,29,39,41,43,47,46,48,52,53,54	4.23	0.92	22.85	-8.39	-16.63	-0.60	2.40	-2.21	2.87	16.23	-2.41	5.84	24.09	23.35	-0.33	2.28	1.66	**76.1**
5255	5159	2,5,19,21,27,26,30,32,48,51	4.05	1.44	20.93	-13.51	-18.42	7.11	5.26	-4.53	9.80	6.87	-0.88	3.93	29.23	12.49	-0.33	6.10	6.77	**76.3**
5256	5071	2,5,19,18,21,27,26,30,32,48,51	4.17	1.70	21.02	-13.51	-18.42	7.11	5.26	-4.53	9.80	6.87	-0.86	3.93	29.48	12.49	-0.33	6.10	6.77	**77.1**
5257	5255	2,5,22,24,29,36,38,40,42,46,48,51	3.57	0.66	18.28	-2.97	-14.53	2.82	-1.19	-2.11	5.55	7.68	-0.66	7.74	21.18	21.05	-0.33	2.28	8.05	**77.1**
5258	5234	2,5,19,21,28,34,36,39,45,55	3.79	0.66	19.31	-3.69	-11.70	5.39	-1.19	0.73	10.45	22.57	-2.75	3.93	20.76	5.24	-0.33	2.28	1.66	**77.1**
5259	5171	2,5,19,21,27,26,31,34,36,39,41,40,42,46,48,51	6.05	1.96	20.48	-0.33	-16.58	3.68	1.68	-1.58	4.28	15.46	-1.31	7.74	22.92	5.24	-0.33	6.10	1.66	**77.1**
5260	5020	2,5,19,18,19,22,24,29,36,38,40,42,46,48,52,53,54	4.26	1.18	16.64	-4.91	-11.84	1.97	-0.47	-1.40	6.04	7.68	-0.78	5.84	20.27	23.02	-0.33	2.28	8.05	**77.5**
5261	5265	2,5,22,24,29,39,41,40,42,46,48,51	4.17	0.40	24.94	-4.69	-21.20	0.25	0.96	-3.01	4.14	15.61	-1.92	7.74	25.49	21.05	-0.33	2.28	1.66	**77.5**
5262	148	1,3,7,11,13,16,18,19,22,24,29,36,38,41,45,55	7.00	0.92	11.21	0.88	0.62	3.68	3.11	5.09	7.31	1.52	1.11	-1.80	16.84	16.44	1.06	-1.54	4.21	**77.7**
5263	5261	2,5,22,24,29,36,38,43,47,46,48,51	3.57	0.40	18.30	-2.58	-14.31	2.82	-1.19	-2.11	5.55	7.88	-0.65	7.74	21.21	21.05	-0.33	2.28	8.05	**77.7**
5264	5083	2,5,19,18,21,27,26,31,34,36,39,41,40,42,46,48,51	6.17	2.22	20.57	-0.33	-16.58	3.68	1.68	-1.58	4.28	15.46	-1.29	7.74	23.18	5.24	-0.33	6.10	1.66	**77.9**
5265	5030	2,5,19,18,19,22,24,29,39,41,40,42,46,48,52,53,54	4.87	0.92	23.30	-6.62	-18.51	-0.60	1.68	-2.30	4.62	15.61	-2.05	5.84	24.58	23.02	-0.33	2.28	1.66	**78.0**
5266	5026	2,5,19,18,19,22,24,29,36,38,43,47,46,48,52,53,54	4.27	0.92	16.66	-4.51	-11.62	1.97	-0.47	-1.40	6.04	7.88	-0.78	5.84	20.31	23.02	-0.33	2.28	8.05	**78.1**
5267	5146	2,5,19,18,21,28,34,36,39,45,55	3.92	1.18	19.40	-3.69	-11.70	5.39	-1.19	0.73	10.45	22.57	-2.73	3.93	21.01	5.24	-0.33	2.28	1.66	**78.1**
5268	5175	2,5,19,21,27,26,31,34,36,39,41,43,47,46,48,51	6.05	2.22	20.50	0.07	-16.36	3.68	1.68	-1.58	4.28	15.66	-1.30	7.74	22.96	5.24	-0.33	6.10	1.66	**78.3**
5269	5202	2,5,19,21,28,31,30,32,46,49,53,54	5.33	1.44	14.39	-10.41	-7.62	5.39	3.11	-1.74	9.37	8.96	-0.62	5.84	23.81	12.49	-0.33	2.28	6.77	**78.5**
5270	5269	2,5,22,24,29,39,41,43,47,46,48,51	4.18	0.66	24.96	-4.29	-20.98	0.25	0.96	-3.01	4.14	15.81	-1.92	7.74	25.52	21.05	-0.33	2.28	1.66	**78.7**
5271	5011	2,5,19,18,19,22,24,29,36,35,37,40,43,47,46,48,51	5.52	1.44	19.80	-2.42	-17.89	4.54	0.25	-3.58	4.26	7.81	-0.39	7.74	25.23	23.02	-0.33	2.28	1.66	**78.9**
5272	5087	2,5,19,18,21,27,26,31,34,36,39,41,43,47,46,48,51	6.18	2.48	20.59	0.07	-16.36	3.68	1.68	-1.58	4.28	15.66	-1.29	7.74	23.22	5.24	-0.33	6.10	1.66	**79.0**
5273	5034	2,5,19,18,19,22,24,29,39,41,43,47,46,48,52,53,54	4.87	1.18	23.32	-6.22	-18.30	-0.60	1.68	-2.30	4.62	15.81	-2.05	5.84	24.62	23.02	-0.33	2.28	1.66	**79.1**
5274	5114	2,5,19,18,21,28,31,30,32,46,49,53,54	5.46	1.96	14.48	-10.41	-7.62	5.39	3.11	-1.74	9.37	8.96	-0.61	5.84	24.07	12.49	-0.33	2.28	6.77	**79.5**
5275	5186	2,5,19,21,27,26,31,34,38,41,45,55	5.04	1.44	14.39	-5.25	-6.05	6.25	-0.47	1.63	13.28	9.49	-0.70	3.93	18.51	5.24	-0.33	6.10	8.05	**80.5**
5276	5201	2,5,19,21,28,31,30,32,46,47,50,54	5.46	1.70	14.55	-10.15	-7.48	7.11	3.83	-3.82	11.70	9.73	-0.79	3.93	24.13	12.49	-0.33	2.28	6.77	**81.1**
5277	5304	2,5,22,25,29,39,45,55	1.77	-0.12	24.07	-10.35	-15.69	1.97	-1.19	-0.61	9.97	21.83	-3.40	3.93	24.22	21.38	-0.33	2.28	1.66	**81.4**
5278	5098	2,5,19,18,21,27,26,31,34,38,41,45,55	5.16	1.96	14.48	-5.25	-6.05	6.25	-0.47	1.63	13.28	9.49	-0.69	3.93	18.77	5.24	-0.33	6.10	8.05	**81.5**
5279	5113	2,5,19,18,21,28,31,30,32,46,47,50,54	5.59	2.22	14.64	-10.15	-7.48	7.11	3.83	-3.82	11.70	9.73	-0.77	3.93	24.39	12.49	-0.33	2.28	6.77	**82.1**
5280	5158	2,5,19,21,27,26,30,32,46,49,53,54	5.55	1.96	14.95	-10.54	-8.65	5.39	3.11	-1.74	10.79	7.50	-0.37	5.84	24.65	12.49	-0.33	6.10	6.77	**83.5**

Westar Energy- JEC to East Manhattan
345/230 kV Transmission Line Project
Table F-3: Weighted, Sorted Z-scores for All Routes

		Weights	3	1	8	5	5	2	3	4	4	6	1	2	9	10	2	2	3	
Rank	Route	**Segments**	**Total length**	**Heavy angles > 30 degrees**	**Length not along Transmission Line**	**Length not along Roads**	**Length not along Property Lines**	**Roads crossed**	**Streams and rivers crossed**	**Wetland acres in ROW**	**Woodland acres in ROW**	**Cropland acres in ROW**	**Open/Pasture land in ROW**	**Rare species/ Species of concern polygons crossed**	**Visibility rating**	**Residential proximity score**	**Businesses within 300ft**	**Public facilities within 300ft**	**Cultural sites within 1320ft**	**Sum**
5281	5180	2,5,19,21,27,26,31,34,36,39,45,55	4.29	1.70	20.07	-3.82	-12.73	5.39	-1.19	0.73	11.87	21.26	-2.41	3.93	22.18	5.24	-0.33	6.10	1.66	**83.9**
5282	5274	2,5,22,24,29,39,45,55	2.42	0.14	24.53	-8.18	-17.35	1.97	-1.91	-0.70	11.72	21.41	-3.03	3.93	24.74	21.05	-0.33	2.28	1.66	**84.3**
5283	5070	2,5,19,18,21,27,26,30,32,46,49,53,54	5.68	2.48	15.04	-10.54	-8.65	5.39	3.11	-1.74	10.79	7.50	-0.35	5.84	24.91	12.49	-0.33	6.10	6.77	**84.5**
5284	5092	2,5,19,18,21,27,26,31,34,36,39,45,55	4.42	2.22	20.16	-3.82	-12.73	5.39	-1.19	0.73	11.87	21.26	-2.40	3.93	22.44	5.24	-0.33	6.10	1.66	**84.9**
5285	5049	2,5,19,18,19,22,25,29,36,38,40,42,46,48,51	4.60	0.66	19.03	-5.14	-12.86	3.68	0.96	-2.02	3.79	8.10	-0.83	7.74	24.11	23.35	-0.33	2.28	8.05	**85.2**
5286	5059	2,5,19,18,19,22,25,29,39,41,40,42,46,48,51	5.20	0.40	25.69	-6.85	-19.54	1.11	3.11	-2.92	2.38	16.03	-2.10	7.74	28.42	23.35	-0.33	2.28	1.66	**85.6**
5287	5055	2,5,19,18,19,22,25,29,36,38,43,47,46,48,51	4.60	0.40	19.04	-4.74	-12.64	3.68	0.96	-2.02	3.79	8.30	-0.82	7.74	24.15	23.35	-0.33	2.28	8.05	**85.8**
5288	5157	2,5,19,21,27,26,30,32,46,47,50,54	5.68	2.22	15.10	-10.28	-8.51	7.11	3.83	-3.82	13.11	8.26	-0.53	3.93	24.97	12.49	-0.33	6.10	6.77	**86.1**
5289	5063	2,5,19,18,19,22,25,29,39,41,43,47,46,48,51	5.21	0.66	25.70	-6.46	-19.32	1.11	3.11	-2.92	2.38	16.23	-2.09	7.74	28.46	23.35	-0.33	2.28	1.66	**86.8**
5290	5069	2,5,19,18,21,27,26,30,32,46,47,50,54	5.81	2.74	15.19	-10.28	-8.51	7.11	3.83	-3.82	13.11	8.26	-0.52	3.93	25.23	12.49	-0.33	6.10	6.77	**87.1**
5291	5019	2,5,19,18,19,22,24,29,36,38,40,42,46,48,51	5.24	0.92	19.49	-2.97	-14.53	3.68	0.25	-2.11	5.55	7.68	-0.46	7.74	24.64	23.02	-0.33	2.28	8.05	**88.1**
5292	5276	2,5,22,25,29,36,35,37,40,41,45,55	6.07	0.92	21.05	-8.48	-12.60	5.39	-0.47	-1.18	10.09	13.83	-1.37	3.93	26.11	21.38	-0.33	2.28	1.66	**88.3**
5293	5029	2,5,19,18,19,22,24,29,39,41,40,42,46,48,51	5.84	0.66	26.15	-4.69	-21.20	1.11	2.40	-3.01	4.14	15.61	-1.73	7.74	28.94	23.02	-0.33	2.28	1.66	**88.6**
5294	5025	2,5,19,18,19,22,24,29,36,38,43,47,46,48,51	5.25	0.66	19.51	-2.58	-14.31	3.68	0.25	-2.11	5.55	7.88	-0.46	7.74	24.67	23.02	-0.33	2.28	8.05	**88.8**
5295	5033	2,5,19,18,19,22,24,29,39,41,43,47,46,48,51	5.85	0.92	26.17	-4.29	-20.98	1.11	2.40	-3.01	4.14	15.81	-1.73	7.74	28.98	23.02	-0.33	2.28	1.66	**89.7**
5296	5246	2,5,22,24,29,36,35,37,40,41,45,55	6.72	1.18	21.51	-6.31	-14.26	5.39	-1.19	-1.28	11.84	13.41	-1.00	3.93	26.63	21.05	-0.33	2.28	1.66	**91.2**
5297	5068	2,5,19,18,19,22,25,29,39,45,55	3.45	0.40	25.28	-10.35	-15.69	2.82	0.25	-0.61	9.97	21.83	-3.20	3.93	27.68	23.35	-0.33	2.28	1.66	**92.7**
5298	5038	2,5,19,18,19,22,24,29,39,45,55	4.09	0.66	25.74	-8.18	-17.35	2.82	-0.47	-0.70	11.72	21.41	-2.84	3.93	28.20	23.02	-0.33	2.28	1.66	**95.7**
5299	5290	2,5,22,25,29,36,38,41,45,55	5.80	0.66	20.75	-8.63	-9.01	4.54	-0.47	0.29	11.38	13.90	-1.45	3.93	25.55	21.38	-0.33	2.28	8.05	**98.6**
5300	5040	2,5,19,18,19,22,25,29,36,35,37,40,41,45,55	7.74	1.44	22.25	-8.48	-12.60	6.25	0.96	-1.18	10.09	13.83	-1.18	3.93	29.57	23.35	-0.33	2.28	1.66	**99.6**
5301	5260	2,5,22,24,29,36,38,41,45,55	6.44	0.92	21.22	-6.46	-10.68	4.54	-1.19	0.19	13.14	13.48	-1.08	3.93	26.08	21.05	-0.33	2.28	8.05	**101.6**
5302	5010	2,5,19,18,19,22,24,29,36,35,37,40,41,45,55	8.39	1.70	22.72	-6.31	-14.26	6.25	0.25	-1.28	11.84	13.41	-0.81	3.93	30.09	23.02	-0.33	2.28	1.66	**102.5**
5303	5054	2,5,19,18,19,22,25,29,36,38,41,45,55	7.47	1.18	21.96	-8.63	-9.01	5.39	0.96	0.29	11.38	13.90	-1.26	3.93	29.01	23.35	-0.33	2.28	8.05	**109.9**
5304	5024	2,5,19,18,19,22,24,29,36,38,41,45,55	8.12	1.44	22.43	-6.46	-10.68	5.39	0.25	0.19	13.14	13.48	-0.89	3.93	29.53	23.02	-0.33	2.28	8.05	**112.9**

Max	2.80	3.00	3.27	3.26	2.29	3.55	3.43	2.51	3.32	3.76	2.10	3.87	4.52	0.00	1.23	3.05	2.68
Average	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Min	-1.74	-3.23	-1.67	-3.09	-4.24	-2.02	-2.07	-2.45	-3.98	-1.39	-4.10	-1.85	-1.77	0.00	-1.55	-0.77	-0.72
St. Dev	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00

Burns & McDonnell World Headquarters
9400 Ward Parkway
Kansas City, MO 64114
Phone: 816-333-9400
Fax: 816-333-3690
www.burnsmcd.com

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