

APPENDIX G
DATA ANALYSIS TABLES - SEGMENTS 1, 2, AND 3

SEGMENT	Total Length (mi)	Total acres 0- 75 ft	Total acres 0-500 ft	Human Settlement - Aesthetics									
				Commerical & Non-Residential Structures					Residences (Houses)				
				0-75 ft Count	75-250 ft Count	250-500 ft Count	500-1,600 ft Count	Total Count	0-75 ft Count	75-250 ft Count	250-500 ft Count	500-1,600 ft Count	Total Count
Segment 1 North	42.1	766.5	5,128.4	4.0	67.0	108.0	186.0	365.0	-	28.0	45.0	81.0	154.0
Segment 1 South	47.7	866.4	5,811.7	13.0	144.0	341.0	322.0	820.0	11.0	68.0	86.0	158.0	323.0
Route Segment 1	2.8	50.4	349.0	3.0	11.0	25.0	27.0	66.0	-	4.0	3.0	9.0	16.0
Route Segment 1 Equivalent	2.3	42.4	295.1	-	1.0	6.0	24.0	31.0	2.0	4.0	1.0	9.0	16.0
Route Segment 5	1.3	24.0	174.0	-	1.0	2.0	16.0	19.0	-	-	1.0	3.0	4.0
Route Segment 5 Equivalent	1.2	21.6	157.7	-	1.0	12.0	20.0	33.0	-	3.0	16.0	13.0	32.0
Route Segment 6	10.2	67.3	464.0	2.0	1.0	11.0	42.0	56.0	1.0	-	2.0	18.0	21.0
Route Segment 6 Equivalent	10.7	75.3	516.5	-	20.0	28.0	55.0	103.0	2.0	8.0	11.0	17.0	38.0
Route Segment 7	2.0	36.6	258.0	-	-	-	13.0	13.0	-	-	-	3.0	3.0
Route Segment 7 Equivalent	2.0	36.3	256.6	2.0	11.0	29.0	9.0	51.0	-	5.0	1.0	1.0	7.0
Route Segment 9	0.9	16.7	126.7	-	-	8.0	31.0	39.0	-	-	-	3.0	3.0
Route Segment 9 Equivalent	0.9	16.7	126.4	-	1.0	9.0	29.0	39.0	-	-	-	3.0	3.0
Route Segment 10	2.9	53.3	369.0	-	1.0	2.0	7.0	10.0	-	1.0	2.0	22.0	25.0
Route Segment 10 Equivalent	2.1	38.7	272.8	-	13.0	27.0	1.0	41.0	1.0	8.0	3.0	19.0	31.0
Route Segment 11	3.6	66.5	454.7	-	3.0	11.0	32.0	46.0	-	2.0	3.0	21.0	26.0
Route Segment 11 Equivalent	2.7	48.9	340.9	-	13.0	36.0	23.0	72.0	1.0	9.0	2.0	21.0	33.0
Route Segment 18	1.6	28.8	207.1	1.0	-	-	41.0	42.0	-	-	-	6.0	6.0
Route Segment 18 Equivalent	1.6	28.8	207.3	-	1.0	10.0	32.0	43.0	-	-	1.0	5.0	6.0
Alignment Alternative 2	1.7	30.6	219.3	-	-	1.0	4.0	5.0	-	-	-	2.0	2.0
Alignment Alternative 2 Equivalent	1.7	30.7	219.3	-	1.0	2.0	2.0	5.0	-	-	-	2.0	2.0
Alignment Alternative 8	0.2	4.2	43.0	-	-	2.0	6.0	8.0	-	1.0	1.0	3.0	5.0
Alignment Alternative 8 Equivalent	0.2	4.2	43.3	-	-	3.0	5.0	8.0	-	1.0	1.0	3.0	5.0
Segment 2 North	41.2	748.5	4,989.0	3.0	78.0	251.0	148.0	480.0	1.0	46.0	56.0	98.0	201.0
Segment 2 South	38.1	613.1	4,097.2	2.0	28.0	63.0	75.0	168.0	-	12.0	23.0	32.0	67.0
Route Segment 17 Hwy 14 Option	95.2	1,729.0	12,908.4	9.0	53.0	295.0	412.0	769.0	4.0	19.0	172.0	59.0	254.0
Segment 3	43.4	788.7	5,266.8	-	20.0	40.0	65.0	125.0	-	6.0	17.0	36.0	59.0

Note: 0-75' is used to describe what is present within the ROW and 0-500' is used to describe what is present within the route width.

APPENDIX G
DATA ANALYSIS TABLES - SEGMENTS 1, 2, AND 3

SEGMENT	Human Settlement - Aesthetics													
	Right-of-Way Paralleling by Type													
	Transmission Line		Road		Railroad		Transmission Line, Road, Railroad, or Pipeline		Field, Parcel, or Section Lines		Total Paralleling		Total Length not Paralleling Existing Infrastructure or Division Lines	
	Length	Length	Length	Length	Length	Length	Length	Length	Length	Length	Length	Length	Length	Length
	Length (mi)	Percent	Length (mi)	Percent	Length (mi)	Percent	Length (mi)	Percent	Length (mi)	Percent	Length (mi)	Percent	Length (mi)	Percent
Segment 1 North	40.5	96.1	7.3	17.4	2.9	6.9	42.1	100.0	31.1	73.7	42.1	100.0	-	-
Segment 1 South	32.9	69.0	30.3	63.5	0.0	0.0	40.9	85.9	41.7	87.6	45.2	94.9	2.4	5.1
Route Segment 1	0.3	10.0	2.5	89.9	-	-	2.7	99.8	2.7	98.5	2.8	100.0	-	-
Route Segment 1 Equivalent	1.1	46.5	2.1	88.8	-	-	2.3	100.0	2.1	88.8	2.3	100.0	-	-
Route Segment 5	-	-	0.5	35.1	-	-	0.5	35.1	1.3	100.0	1.3	100.0	-	-
Route Segment 5 Equivalent	0.9	73.1	0.9	73.1	-	-	0.9	73.1	1.0	87.9	1.0	87.9	0.1	12.1
Route Segment 6	0.0	0.0	0.0	0.0	-	-	0.0	0.0	3.7	35.9	3.7	35.9	-	-
Route Segment 6 Equivalent	3.5	32.4	3.3	31.2	-	-	3.5	32.4	3.3	31.2	3.5	32.4	0.7	6.2
Route Segment 7	-	-	-	-	-	-	-	-	2.0	100.0	2.0	100.0	-	-
Route Segment 7 Equivalent	-	-	2.0	100.0	-	-	2.0	100.0	2.0	100.0	2.0	100.0	-	-
Route Segment 9	-	-	-	-	-	-	-	-	-	-	-	-	0.9	100.0
Route Segment 9 Equivalent	0.9	100.0	-	-	-	-	0.9	100.0	0.1	15.3	0.9	100.0	-	-
Route Segment 10	1.1	36.9	0.0	0.3	2.1	72.6	2.1	73.0	2.9	98.3	2.9	98.3	0.0	1.7
Route Segment 10 Equivalent	2.0	95.9	1.5	72.5	0.0	0.1	2.0	95.9	1.9	90.3	2.0	95.9	0.1	4.1
Route Segment 11	1.1	29.4	1.5	40.5	2.1	58.2	3.6	98.6	3.6	98.6	3.6	98.6	0.0	1.4
Route Segment 11 Equivalent	2.6	96.7	1.8	68.5	0.0	0.1	2.6	96.8	2.2	82.5	2.6	96.8	0.1	3.2
Route Segment 18	0.0	0.0	-	-	-	-	0.0	0.0	0.2	14.6	0.2	14.6	1.3	85.4
Route Segment 18 Equivalent	1.6	100.0	-	-	-	-	1.6	100.0	0.1	8.7	1.6	100.0	-	-
Alignment Alternative 2	1.0	62.7	0.4	24.3	1.3	79.7	1.7	100.0	1.7	100.0	1.7	100.0	-	-
Alignment Alternative 2 Equivalent	1.1	67.0	-	-	1.7	100.0	1.7	100.0	1.5	89.0	1.7	100.0	-	-
Alignment Alternative 8	0.2	100.0	-	-	-	-	0.2	100.0	-	-	0.2	100.0	-	-
Alignment Alternative 8 Equivalent	0.2	100.0	-	-	-	-	0.2	100.0	-	-	0.2	100.0	-	-
Segment 2 North	28.4	69.0	24.8	60.3	0.0	0.0	32.9	80.0	37.4	90.9	38.2	92.8	3.0	7.2
Segment 2 South	5.7	14.9	5.4	14.2	1.1	2.8	10.1	26.5	29.4	77.3	29.8	78.2	3.9	10.3
Route Segment 17 Hwy 14 Option	21.2	22.3	67.3	70.7	8.2	8.6	81.5	85.6	81.4	85.5	89.1	93.6	6.0	6.4
Segment 3	43.4	100.0	3.5	8.0	-	-	43.4	100.0	27.0	62.3	43.4	100.0	0.0	0.0

Note: 0-75' is used to describe what is present within the ROW and 0-500' is used to describe what is present within the route width.

APPENDIX G
DATA ANALYSIS TABLES - SEGMENTS 1, 2, AND 3

SEGMENT	Human Settlement - Recreation									
	MN Department of Natural Resources State Water Trails		Scenic Byways			Snowmobile Trails			Wild and Scenic Rivers	
	Crossing	0-500 ft	Crossing	0-75 ft	0-500 ft	Crossing	0-75 ft	0-500 ft	Crossing	0-75 ft
	Count	Length (ft)	Count	Length (ft)	Length (ft)	Count	Length (ft)	Length (ft)	Count	Length (ft)
Segment 1 North	5.0	1,571.3	2.0	338.7	2,247.8	9.0	12,139.6	30,798.9	2.0	625.5
Segment 1 South	4.0	309.0	2.0	308.5	2,051.9	10.0	16,765.3	38,925.5	-	-
Route Segment 1	-	-	-	-	-	-	-	-	-	-
Route Segment 1 Equivalent	-	-	-	-	-	-	1,303.7	3,228.6	-	-
Route Segment 5	-	-	-	-	-	-	-	5,443.9	-	-
Route Segment 5 Equivalent	-	-	-	-	-	-	-	982.4	-	-
Route Segment 6	-	-	-	-	-	-	19,049.9	20,745.3	-	-
Route Segment 6 Equivalent	-	-	-	-	-	-	66.7	2,117.3	-	-
Route Segment 7	-	-	-	-	-	-	-	-	-	-
Route Segment 7 Equivalent	-	-	-	-	-	-	-	-	-	-
Route Segment 9	-	-	-	-	-	-	-	-	-	-
Route Segment 9 Equivalent	-	-	-	-	-	-	-	-	-	-
Route Segment 10	-	-	-	-	-	1.0	166.1	1,101.4	-	-
Route Segment 10 Equivalent	-	-	-	-	-	1.0	150.5	1,003.8	-	-
Route Segment 11	-	-	-	-	-	1.0	166.1	1,101.4	-	-
Route Segment 11 Equivalent	-	-	-	-	-	1.0	150.5	1,003.8	-	-
Route Segment 18	-	-	-	-	-	3.0	1,318.9	2,611.5	-	-
Route Segment 18 Equivalent	-	-	-	-	-	1.0	169.0	2,625.2	-	-
Alignment Alternative 2	-	-	-	-	-	1.0	200.6	1,401.1	-	-
Alignment Alternative 2 Equivalent	-	-	-	-	-	1.0	218.7	1,295.0	-	-
Alignment Alternative 8	-	-	-	-	-	-	-	-	-	-
Alignment Alternative 8 Equivalent	-	-	-	-	-	-	-	-	-	-
Segment 2 North	1.0	1,055.4	-	-	-	18.0	13,024.7	42,035.2	-	-
Segment 2 South	1.0	1,116.2	-	-	-	6.0	1,106.5	7,204.5	-	-
Route Segment 17 Hwy 14 Option	4.0	10,551.6	2.0	308.5	2,051.7	15.0	4,652.8	53,071.4	-	-
Segment 3	8.0	2,785.1	2.0	312.6	2,101.4	22.0	6,749.6	38,854.2	1.0	156.5

Note: 0-75' is used to describe what is present within the ROW and 0-500' is used to describe what is present within the route width.

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DATA ANALYSIS TABLES - SEGMENTS 1, 2, AND 3

SEGMENT	Airports / Heliports	Land-based Economies - Agriculture		
	Private	Natural Resource Conservation Service Prime Farmland by Type	Total Prime Farmland	Total Prime Farmland
	Within 1 mi	0-500 ft	0-500 ft	% of Route
	Count	Area (ac)	Area (ac)	Width
Segment 1 North	-	1,229.3	2,530.3	49%
Segment 1 South	-	1,042.8	3,670.8	63%
Route Segment 1	-	3.8	344.9	99%
Route Segment 1 Equivalent	-	19.9	275.1	93%
Route Segment 5	-	4.4	169.5	97%
Route Segment 5 Equivalent	-	2.2	151.2	96%
Route Segment 6	-	149.1	219.1	47%
Route Segment 6 Equivalent	-	158.1	240.7	47%
Route Segment 7	-	16.8	204.1	79%
Route Segment 7 Equivalent	-	11.9	229.9	90%
Route Segment 9	-	5.4	108.4	86%
Route Segment 9 Equivalent	-	8.6	94.5	75%
Route Segment 10	-	46.4	201.6	55%
Route Segment 10 Equivalent	-	17.1	233.0	85%
Route Segment 11	-	40.1	278.5	61%
Route Segment 11 Equivalent	-	20.0	297.5	87%
Route Segment 18	-	34.1	139.6	67%
Route Segment 18 Equivalent	-	21.3	110.3	53%
Alignment Alternative 2	-	9.2	208.6	95%
Alignment Alternative 2 Equivalent	-	9.3	209.1	95%
Alignment Alternative 8	-	1.5	24.7	57%
Alignment Alternative 8 Equivalent	-	1.3	24.0	55%
Segment 2 North	-	632.4	3,885.7	78%
Segment 2 South	-	348.6	3,389.0	83%
Route Segment 17 Hwy 14 Option	2.0	1,160.7	10,759.9	83%
Segment 3	-	1,471.6	2,245.5	43%

Note: 0-75' is used to describe what is present within the ROW and 0-500' is used to describe what is present within the route width.

APPENDIX G
DATA ANALYSIS TABLES - SEGMENTS 1, 2, AND 3

SEGMENT	Archaeological and Historic Resources													
	Cultural Resources - Archaeological Resources										Cultural Resources - Historical Resources			
	0-75 Count	75-250 Count	250-500 Count	500-1,600 Count	1,600-5,280 Count	0-75 (ft) Area (sq ft)	75-250 (ft) Area (sq ft)	250-500 (ft) Area (sq ft)	500-1,600 (ft) Area (sq ft)	1,600-5,280 (ft) Area (sq ft)	0-75 Count	75-500 Count	500-5,280 Count	Total Count
Segment 1 North	3.0	-	3.0	-	54.0	21.0	-	140.6	-	1,715.1	16.0	9.0	102.0	127.0
Segment 1 South	4.0	-	4.0	-	35.0	10.6	-	79.1	-	921.1	17.0	23.0	162.0	202.0
Route Segment 1	1.0	-	1.0	-	5.0	0.6	-	0.7	-	12.1	2.0	-	10.0	12.0
Route Segment 1 Equivalent	-	-	-	-	4.0	-	-	-	-	10.2	2.0	2.0	11.0	15.0
Route Segment 5	-	-	-	-	2.0	-	-	-	-	1.8	1.0	2.0	18.0	21.0
Route Segment 5 Equivalent	-	-	-	-	2.0	-	-	-	-	1.8	1.0	1.0	19.0	21.0
Route Segment 6	1.0	-	1.0	-	6.0	0.2	-	7.3	-	202.8	8.0	1.0	53.0	62.0
Route Segment 6 Equivalent	1.0	-	1.0	-	6.0	1.5	-	13.9	-	202.8	1.0	2.0	58.0	61.0
Route Segment 7	-	-	-	-	2.0	-	-	-	-	304.9	-	-	15.0	15.0
Route Segment 7 Equivalent	-	-	-	-	-	-	-	-	-	-	-	-	3.0	3.0
Route Segment 9	-	-	-	-	2.0	-	-	-	-	3.6	-	-	17.0	17.0
Route Segment 9 Equivalent	-	-	-	-	2.0	-	-	-	-	3.6	-	-	17.0	17.0
Route Segment 10	-	-	-	-	-	-	-	-	-	-	4.0	1.0	9.0	14.0
Route Segment 10 Equivalent	-	-	-	-	-	-	-	-	-	-	4.0	-	10.0	14.0
Route Segment 11	-	-	-	-	-	-	-	-	-	-	4.0	2.0	8.0	14.0
Route Segment 11 Equivalent	-	-	-	-	-	-	-	-	-	-	4.0	-	10.0	14.0
Route Segment 18	-	-	-	-	2.0	-	-	-	-	3.6	-	1.0	17.0	18.0
Route Segment 18 Equivalent	-	-	-	-	2.0	-	-	-	-	3.6	-	3.0	15.0	18.0
Alignment Alternative 2	-	-	-	-	5.0	-	-	-	-	3.5	2.0	1.0	20.0	23.0
Alignment Alternative 2 Equivalent	-	-	-	-	4.0	-	-	-	-	2.8	2.0	1.0	21.0	24.0
Alignment Alternative 8	-	-	-	-	-	-	-	-	-	-	-	-	6.0	6.0
Alignment Alternative 8 Equivalent	-	-	-	-	-	-	-	-	-	-	-	-	6.0	6.0
Segment 2 North	3.0	-	4.0	-	11.0	40.1	-	324.3	-	2,384.2	12.0	8.0	91.0	111.0
Segment 2 South	-	-	-	-	3.0	-	-	-	-	354.0	6.0	2.0	44.0	52.0
Route Segment 17 Hwy 14 Option	16.0	-	34.0	-	91.0	62.9	-	436.6	-	2,755.2	26.0	56.0	567.0	649.0
Segment 3	3.0	-	4.0	-	24.0	0.6	-	5.8	-	86.6	7.0	4.0	98.0	109.0

Note: 0-75' is used to describe what is present within the ROW and 0-500' is used to describe what is present within the route width.

APPENDIX G
DATA ANALYSIS TABLES - SEGMENTS 1, 2, AND 3

SEGMENT	Archaeological and Historic Resources									
	Cultural Resources - Historical Cemeteries									
	0-75 ft	75-250 ft	250-500 ft	500-1,600 ft	1,600-5,280 ft	0-75 (ft)	75-250 (ft)	250-500 (ft)	500-1,600 (ft)	1,600-5,280 (ft)
	Area (sq ft)	Area (sq ft)	Area (sq ft)	Area (sq ft)	Area (sq ft)	Area (sq ft)	Area (sq ft)	Area (sq ft)	Area (sq ft)	Area (sq ft)
Segment 1 North	8.0	-	20.0	-	46.0	22.2	-	152.1	-	1,692.0
Segment 1 South	28.0	-	64.0	-	108.0	49.3	-	306.0	-	2,639.5
Route Segment 1	-	-	-	-	-	-	-	-	-	-
Route Segment 1 Equivalent	-	-	-	-	-	-	-	-	-	-
Route Segment 5	-	-	-	-	3.0	-	-	-	-	43.5
Route Segment 5 Equivalent	1.0	-	2.0	-	3.0	3.0	-	17.4	-	43.5
Route Segment 6	-	-	-	-	8.0	-	-	-	-	497.5
Route Segment 6 Equivalent	-	-	-	-	12.0	-	-	-	-	506.7
Route Segment 7	-	-	-	-	10.0	-	-	-	-	113.0
Route Segment 7 Equivalent	-	-	-	-	6.0	-	-	-	-	32.3
Route Segment 9	-	-	-	-	2.0	-	-	-	-	20.8
Route Segment 9 Equivalent	-	-	-	-	4.0	-	-	-	-	20.8
Route Segment 10	-	-	-	-	5.0	-	-	-	-	35.8
Route Segment 10 Equivalent	-	-	-	-	-	-	-	-	-	-
Route Segment 11	-	-	-	-	4.0	-	-	-	-	35.8
Route Segment 11 Equivalent	-	-	-	-	-	-	-	-	-	-
Route Segment 18	-	-	-	-	4.0	-	-	-	-	20.8
Route Segment 18 Equivalent	-	-	-	-	4.0	-	-	-	-	20.8
Alignment Alternative 2	-	-	-	-	-	-	-	-	-	-
Alignment Alternative 2 Equivalent	-	-	-	-	-	-	-	-	-	-
Alignment Alternative 8	-	-	-	-	-	-	-	-	-	-
Alignment Alternative 8 Equivalent	-	-	-	-	-	-	-	-	-	-
Segment 2 North	30.0	-	89.0	-	257.0	259.5	-	1,727.6	-	19,443.1
Segment 2 South	22.0	-	71.0	-	222.0	22.6	-	161.7	-	2,679.3
Route Segment 17 Hwy 14 Option	57.0	-	161.0	-	343.0	124.8	-	1,312.8	-	10,083.5
Segment 3	54.0	-	148.0	-	308.0	120.9	-	811.7	-	8,750.2

Note: 0-75' is used to describe what is present within the ROW and 0-500' is used to describe what is present within the route width.

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SEGMENT	Natural Environment - Public and Designated Lands				Natural Environment - Vegetation									
	DNR Conservation Easements by Type				National Landcover Dataset									
	Federal CREP Easements	State RIM Easements	Forest Legacy	Perman-ent Wetland Program	Agricultural (cultivated crops; hay and pasture)		Forest (upland and wetland)		Herbaceous (upland and wetland)		Open Water		Developed (low-med-high intensity; open space)	
	0-500	0-500	0-500	0-500	0-75 (ft)	0-500 (ft)	0-75 (ft)	0-500 (ft)	0-75 (ft)	0-500 (ft)	0-75 (ft)	0-500 (ft)	0-75 (ft)	0-500 (ft)
	Area (sq ft)	Area (sq ft)	Area (sq ft)	Area (sq ft)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)
Segment 1 North	-	0.6	44.4	-	534.9	3,677.3	73.2	549.0	58.6	342.1	2.6	55.3	95.2	491.9
Segment 1 South	-	5.1	-	37.0	458.0	4,010.4	33.1	338.0	48.1	336.4	1.6	43.1	324.6	1,068.4
Route Segment 1	-	-	-	-	20.2	204.5	0.3	4.4	6.5	27.6	-	-	23.3	111.4
Route Segment 1 Equivalent	-	-	-	-	23.0	163.9	-	9.1	2.6	27.0	0.3	4.3	16.4	90.1
Route Segment 5	-	-	-	-	21.2	152.1	0.4	10.0	-	0.7	-	-	2.4	11.2
Route Segment 5 Equivalent	-	-	-	-	13.3	117.7	0.1	2.3	0.2	4.8	-	0.0	7.9	32.8
Route Segment 6	-	-	-	-	48.9	360.6	16.2	58.3	0.9	10.8	0.1	11.3	1.3	19.9
Route Segment 6 Equivalent	-	-	-	-	40.2	384.7	8.5	48.0	-	5.8	-	3.5	26.7	74.4
Route Segment 7	-	-	-	-	35.8	248.8	0.3	3.8	-	0.7	-	-	0.4	4.7
Route Segment 7 Equivalent	-	-	-	-	19.1	211.0	0.0	6.9	-	0.1	-	-	16.7	37.0
Route Segment 9	-	-	-	-	15.9	115.5	0.1	7.4	-	-	-	-	0.8	3.9
Route Segment 9 Equivalent	-	-	-	-	12.6	100.7	3.7	21.7	-	-	-	-	0.4	4.1
Route Segment 10	-	-	-	-	45.1	279.9	0.9	1.3	4.2	21.4	-	-	3.0	62.7
Route Segment 10 Equivalent	-	-	-	-	17.5	222.7	0.4	6.7	0.7	4.9	-	-	20.1	38.5
Route Segment 11	-	-	-	-	53.4	338.4	-	-	4.3	21.2	-	-	8.7	91.4
Route Segment 11 Equivalent	-	-	-	-	24.1	282.1	0.4	6.7	0.7	6.2	-	-	23.7	46.0
Route Segment 18	-	-	-	-	25.6	185.2	1.5	12.3	0.2	0.9	-	-	1.6	8.6
Route Segment 18 Equivalent	-	-	-	-	20.5	150.7	7.2	37.5	-	1.1	0.2	4.7	1.0	13.3
Alignment Alternative 2	-	-	-	-	16.9	167.1	-	-	1.2	4.7	1.6	12.9	10.9	34.7
Alignment Alternative 2 Equivalent	-	-	-	-	22.7	167.9	-	-	1.1	3.8	0.6	11.5	6.4	36.1
Alignment Alternative 8	-	-	-	-	-	9.3	4.0	29.0	-	1.1	-	-	0.2	3.5
Alignment Alternative 8 Equivalent	-	-	-	-	-	9.6	4.0	29.3	-	1.1	-	-	0.2	3.4
Segment 2 North	8.6	-	-	-	489.7	3,993.3	20.3	197.8	38.1	242.3	0.9	2.8	198.9	543.0
Segment 2 South	-	10.0	-	-	499.5	3,533.7	13.7	133.5	38.6	215.7	0.2	3.9	60.6	203.9
Route Segment 17 Hwy 14 Option	3.2	3.0	-	5.6	1,207.9	8,079.1	42.3	545.6	71.0	519.7	2.3	37.6	344.1	3,276.3
Segment 3	-	-	-	-	560.4	3,851.6	99.3	792.1	69.7	377.4	6.5	47.1	51.0	192.6

Note: 0-75' is used to describe what is present within the ROW and 0-500' is used to describe what is present within the route width.

APPENDIX G
DATA ANALYSIS TABLES - SEGMENTS 1, 2, AND 3

SEGMENT	Natural Environment - Surface Water								
	National Hydrography Dataset Waterbodies		Public Water Inventory Basins			Impaired Streams	National Hydrography Dataset Watercourses	Trout Streams	Public Water Inventory Streams
	Crossing	0-500 ft	Crossing	0-75 ft	0-500 ft	Crossing	Crossing	Crossing	Crossing
	Count	Area (ac)	Count	Area (ac)	Area (ac)	Count	Count	Count	Count
Segment 1 North	4.0	91.4	10.0	18.0	143.0	11.0	34.0	-	16.0
Segment 1 South	1.0	49.5	5.0	28.0	191.4	7.0	30.0	-	10.0
Route Segment 1	-	-	-	-	-	-	2.0	-	-
Route Segment 1 Equivalent	-	-	-	-	-	-	-	-	-
Route Segment 5	-	-	-	-	-	-	-	-	-
Route Segment 5 Equivalent	-	-	-	-	-	-	-	-	-
Route Segment 6	-	14.2	-	0.3	18.4	-	1.0	-	-
Route Segment 6 Equivalent	-	9.1	-	-	6.6	1.0	2.0	-	2.0
Route Segment 7	-	-	-	-	-	1.0	1.0	-	1.0
Route Segment 7 Equivalent	-	-	-	-	-	1.0	1.0	-	1.0
Route Segment 9	-	-	-	-	-	-	1.0	-	-
Route Segment 9 Equivalent	-	-	-	-	-	-	1.0	-	-
Route Segment 10	-	5.8	-	-	-	-	2.0	-	1.0
Route Segment 10 Equivalent	-	-	-	-	-	-	2.0	-	1.0
Route Segment 11	-	5.8	-	-	-	-	2.0	-	-
Route Segment 11 Equivalent	-	-	-	-	-	-	3.0	-	1.0
Route Segment 18	-	-	-	-	-	-	1.0	-	-
Route Segment 18 Equivalent	-	4.4	-	-	3.4	-	1.0	-	-
Alignment Alternative 2	-	-	-	-	-	-	-	-	-
Alignment Alternative 2 Equivalent	-	-	-	-	-	-	-	-	-
Alignment Alternative 8	-	-	-	-	-	3.0	3.0	-	3.0
Alignment Alternative 8 Equivalent	-	-	-	-	-	1.0	1.0	-	1.0
Segment 2 North	-	1.4	-	-	-	4.0	50.0	-	16.0
Segment 2 South	-	1.5	3.0	3.6	19.4	1.0	42.0	-	7.0
Route Segment 17 Hwy 14 Option	4.0	19.0	1.0	0.4	45.5	6.0	62.0	1.0	9.0
Segment 3	3.0	31.4	2.0	5.6	43.3	2.0	77.0	-	8.0

Note: 0-75' is used to describe what is present within the ROW and 0-500' is used to describe what is present within the route width.

APPENDIX G
DATA ANALYSIS TABLES - SEGMENTS 1, 2, AND 3

SEGMENT	National Wetland Inventory Wetlands							MN Department of Natural Resources Lakes of Biological Significance		MN Department of Natural Resources Native Plant Communities			MN Department of Natural Resources Site of Biodiversity Significance	
	Crossings >1,000 ft Count	Forested		Non Forested		Total								
		0-75 ft	0-500 ft	0-75 ft	0-500 ft	0-75 ft	0-500 ft							
		Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)							
	Crossings >1,000 ft Count	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Crossings >1,000 ft Count	Crossings Count	Count >1,000 ft Count	0-75 ft Area (ac)	0-500 ft Area (ac)	0-75 ft Area (ac)	0-500 ft Area (ac)
Segment 1 North	7.0	9.2	80.8	100.2	612.1	109.3	692.9	1.0	1.0	2.0	23.5	190.8	40.8	352.5
Segment 1 South	6.0	11.4	78.8	79.6	563.9	91.1	642.7	1.0	1.0	1.0	7.2	69.0	10.7	120.3
Route Segment 1	-	1.3	8.1	5.7	21.0	6.9	29.1	-	-	-	-	-	-	-
Route Segment 1 Equivalent	-	0.5	8.2	3.1	20.6	3.6	28.8	-	-	-	-	-	-	-
Route Segment 5	-	-	-	-	3.7	-	3.7	-	-	-	-	-	-	-
Route Segment 5 Equivalent	-	-	-	-	7.7	-	7.7	-	-	-	-	-	-	-
Route Segment 6	-	3.8	15.8	3.6	57.0	7.4	72.9	-	-	-	-	-	-	-
Route Segment 6 Equivalent	-	0.8	4.3	1.9	22.4	2.7	26.8	-	-	-	-	1.7	-	2.0
Route Segment 7	-	-	-	-	1.6	-	1.6	-	-	-	-	-	-	-
Route Segment 7 Equivalent	-	-	-	-	0.1	-	0.1	-	-	-	-	-	-	-
Route Segment 9	-	-	-	-	0.8	-	0.8	-	-	-	-	-	-	-
Route Segment 9 Equivalent	-	-	-	-	0.8	-	0.8	-	-	-	-	-	-	-
Route Segment 10	-	-	-	2.2	28.1	2.2	28.1	-	-	-	-	-	-	-
Route Segment 10 Equivalent	-	-	0.7	-	4.0	-	4.7	-	-	-	-	-	-	-
Route Segment 11	-	-	-	2.1	24.3	2.1	24.3	-	-	-	-	-	-	-
Route Segment 11 Equivalent	-	-	0.7	-	4.0	-	4.7	-	-	-	-	-	-	-
Route Segment 18	-	-	-	0.3	1.4	0.3	1.4	-	-	-	-	-	-	-
Route Segment 18 Equivalent	-	-	-	-	3.9	-	3.9	-	-	-	-	-	-	-
Alignment Alternative 2	-	-	-	0.1	14.7	0.1	14.7	-	-	-	-	-	-	-
Alignment Alternative 2 Equivalent	-	-	-	1.0	11.0	1.0	11.0	-	-	-	-	-	-	-
Alignment Alternative 8	-	-	-	0.5	2.1	0.5	2.1	-	-	-	-	-	3.0	23.9
Alignment Alternative 8 Equivalent	-	-	-	0.5	2.2	0.5	2.2	-	-	-	-	-	2.6	23.6
Segment 2 North	2.0	3.1	26.7	29.0	204.2	32.1	230.9	-	-	1.0	4.3	21.5	6.0	35.9
Segment 2 South	2.0	2.4	17.6	33.3	183.9	35.7	201.5	-	-	-	-	-	0.4	10.6
Route Segment 17 Hwy 14 Option	9.0	15.1	182.4	114.0	638.0	129.1	820.4	-	-	-	6.9	176.6	20.8	357.0
Segment 3	3.0	10.2	91.3	47.5	302.4	57.7	393.6	-	1.0	1.0	16.0	142.7	68.1	490.8

Note: 0-75' is used to describe what is present within the ROW and 0-500' is used to describe what is present within the route width.

APPENDIX G
DATA ANALYSIS TABLES - SEGMENTS 1, 2, AND 3

SEGMENT	MN Department of Natural Resources Railroad ROW Prairies	MN Department of Natural Resources Designated Shallow Wildlife Lakes Crossing Count	MN Department of Natural Resources Wildlife Management Areas		MN Department of Natural Resources State Game Refuge		United States Fish and Wildlife Service Grassland Bird Conservation Area		Audubon Important Bird Areas		USFWS Waterfowl Production Areas
	Crossings		0-75 ft	0-500 ft	0-75 (ft)	0-500 (ft)	0-75 (ft)	0-500 (ft)	0-75 (ft)	0-500 (ft)	0-500 (ft)
	Count		Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)
Segment 1 North	-	2.0	8.6	63.9	17.0	127.4	363.7	2,412.1	3.6	41.5	0.0
Segment 1 South	-	2.0	5.9	55.0	5.0	51.9	368.1	2,458.5	-	11.3	-
Route Segment 1	-	-	-	-	-	-	-	-	-	-	-
Route Segment 1 Equivalent	-	-	-	-	-	-	-	-	-	-	-
Route Segment 5	-	-	-	-	-	-	-	-	-	-	-
Route Segment 5 Equivalent	-	-	-	-	-	-	-	-	-	-	-
Route Segment 6	-	-	-	-	-	-	60.2	416.9	-	-	-
Route Segment 6 Equivalent	-	-	-	-	-	-	68.2	469.3	-	-	-
Route Segment 7	-	-	-	-	-	-	36.5	257.9	-	-	-
Route Segment 7 Equivalent	-	-	-	-	-	-	29.5	215.0	-	-	-
Route Segment 9	-	-	-	-	-	-	-	-	-	-	-
Route Segment 9 Equivalent	-	-	-	-	-	-	-	-	-	-	-
Route Segment 10	-	-	-	-	-	-	5.8	48.8	-	-	-
Route Segment 10 Equivalent	-	-	-	-	-	-	-	-	-	-	-
Route Segment 11	-	-	-	-	-	-	5.7	48.7	-	-	-
Route Segment 11 Equivalent	-	-	-	-	-	-	-	-	-	-	-
Route Segment 18	-	-	-	-	-	-	-	-	-	-	-
Route Segment 18 Equivalent	-	-	-	-	-	-	-	-	-	-	-
Alignment Alternative 2	-	-	-	-	-	-	-	-	-	-	-
Alignment Alternative 2 Equivalent	-	-	-	-	-	-	-	-	-	-	-
Alignment Alternative 8	-	-	-	-	-	-	-	-	-	-	-
Alignment Alternative 8 Equivalent	-	-	-	-	-	-	-	-	-	-	-
Segment 2 North	1.0	-	1.8	14.8	-	-	145.7	988.3	-	-	-
Segment 2 South	-	-	13.8	91.5	-	-	48.6	351.3	-	-	-
Route Segment 17 Hwy 14 Option	3.0	1.0	-	-	63.5	427.9	67.4	446.4	-	-	-
Segment 3	-	-	26.0	189.1	-	-	-	-	69.0	453.1	-

Note: 0-75' is used to describe what is present within the ROW and 0-500' is used to describe what is present within the route width.

APPENDIX G
DATA ANALYSIS TABLES - SEGMENTS 1, 2, AND 3

SEGMENT	Wildlife Action Network				Natural Environment - Soil				
	High or Medium-High Rank	Medium Rank	Low or Medium-Low Rank	Total	Hydric Soils	Compaction Prone	Rutting Hazard	Erosion Hazard (Off-Road, Off-Trail)	Revegetation Concerns
					Hydric soils (100%) and predominantly hydric soils (67-99%)	Compaction prone soil rating of medium or higher	Rutting hazard rating of moderate or severe	Erosion hazard rating of medium, severe, or very severe	Non-irrigated land capability classification of 3 or greater
					0-75 (ft)	0-75 (ft)	0-75 (ft)	0-75 (ft)	0-75 (ft)
	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)
Segment 1 North	9.3	87.0	25.1	121.4	322.0	436.8	752.2	307.1	90.8
Segment 1 South	2.0	32.2	10.2	44.4	374.8	473.3	855.0	214.2	65.0
Route Segment 1	-	-	-	-	48.7	1.0	50.4	-	-
Route Segment 1 Equivalent	-	-	-	-	40.2	1.1	42.3	-	-
Route Segment 5	-	-	-	-	15.9	8.1	24.0	4.5	-
Route Segment 5 Equivalent	-	-	-	-	14.1	7.4	21.5	5.7	-
Route Segment 6	-	-	-	-	27.2	38.0	65.3	13.7	1.8
Route Segment 6 Equivalent	-	-	-	-	24.8	49.1	74.4	30.7	9.2
Route Segment 7	-	-	-	-	7.4	28.4	36.5	8.2	1.5
Route Segment 7 Equivalent	-	-	-	-	11.3	25.0	36.3	0.9	-
Route Segment 9	-	-	-	-	3.7	13.0	16.7	10.7	1.2
Route Segment 9 Equivalent	-	-	-	-	4.5	12.2	16.7	11.7	2.2
Route Segment 10	-	-	-	-	8.3	44.1	53.2	14.4	-
Route Segment 10 Equivalent	-	-	-	-	10.3	28.4	38.7	8.6	0.6
Route Segment 11	-	-	-	-	14.7	51.7	66.4	11.8	-
Route Segment 11 Equivalent	-	-	-	-	13.1	35.7	48.9	11.9	0.6
Route Segment 18	-	-	-	-	5.0	23.7	28.8	15.9	4.4
Route Segment 18 Equivalent	-	-	-	-	4.9	23.9	28.8	21.7	10.1
Alignment Alternative 2	-	-	-	-	16.5	14.1	30.6	1.0	-
Alignment Alternative 2 Equivalent	-	-	-	-	19.4	11.3	30.7	0.7	-
Alignment Alternative 8	-	0.3	-	0.3	1.6	3.4	4.1	1.0	1.0
Alignment Alternative 8 Equivalent	-	0.3	-	0.3	1.9	3.7	4.2	0.7	0.7
Segment 2 North	15.9	26.6	16.7	59.2	195.2	550.3	747.0	217.1	31.2
Segment 2 South	4.1	3.4	2.5	10.0	157.0	455.9	612.4	305.7	10.5
Route Segment 17 Hwy 14 Option	17.2	21.7	53.2	92.1	786.2	836.9	1,722.3	317.6	33.0
Segment 3	60.8	28.2	29.5	118.5	36.4	709.9	781.9	635.4	148.8

Note: 0-75' is used to describe what is present within the ROW and 0-500' is used to describe what is present within the route width.

APPENDIX G
DATA ANALYSIS TABLES - SEGMENT 4

SEGMENT	Total Length (mi)	Total acres 0-75 ft	Total acres 0-500 ft	Human Settlement - Aesthetics									
				Commerical & Non-Residential Structures					Residences (Houses)				
				0-50 ft	50-250 ft	250-500 ft	500-1,600 ft	Total	0-50 ft	50-250 ft	250-500 ft	500-1,600 ft	Total
				Count	Count	Count	Count	Count	Count	Count	Count	Count	Count
Segment 4 West	23.6	429.8	3,317.5	1.0	29.0	44.0	76.0	150.0	-	15.0	36.0	45.0	96.0
Segment 4 West Modification	22.7	413.4	2,755.5	3.0	43.0	62.0	60.0	168.0	-	22.0	40.0	51.0	113.0
Segment 4 East	19.6	356.6	2,476.8	2.0	75.0	157.0	122.0	356.0	1.0	43.0	112.0	102.0	258.0
Segment 4 CapX Co-Locate Option	16.4	298.3	2,438.0	-	2.0	48.0	42.0	92.0	-	1.0	21.0	18.0	40.0
Route Segment 4C	1.2	22.8	166.1	-	2.0	14.0	-	16.0	-	1.0	2.0	-	3.0
Route Segment 4C Equivalent	1.2	22.5	164.0	-	-	-	18.0	18.0	-	-	-	2.0	2.0
Route Segment 4E	3.1	57.5	398.4	-	4.0	12.0	33.0	49.0	-	2.0	3.0	14.0	19.0
Route Segment 4E Equivalent	3.5	63.1	434.6	1.0	5.0	16.0	28.0	50.0	-	2.0	8.0	9.0	19.0
Route Segment 4M	1.0	18.5	137.9	-	6.0	2.0	4.0	12.0	-	3.0	1.0	2.0	6.0
Route Segment 4M Equivalent	1.0	18.7	138.8	-	-	-	20.0	20.0	-	-	-	5.0	5.0
Route Segment 4R	0.6	10.8	86.3	1.0	2.0	-	11.0	14.0	2.0	2.0	2.0	15.0	21.0
Route Segment 4R Equivalent	0.6	10.7	85.9	-	2.0	1.0	11.0	14.0	-	1.0	4.0	16.0	21.0
Alignment Alternative 15 Equivalent	1.2	22.5	164.3	-	-	-	15.0	15.0	-	-	-	15.0	15.0
Alignment Alternative 15	1.4	22.8	166.5	1.0	-	-	14.0	15.0	-	2.0	1.0	12.0	15.0
Alignment Alternative 16	0.2	4.0	41.6	-	1.0	10.0	14.0	25.0	-	1.0	8.0	9.0	18.0
Alignment Alternative 16 Equivalent	0.2	4.0	41.5	-	2.0	11.0	12.0	25.0	-	2.0	5.0	11.0	18.0
Route Connector 4G	0.7	14.0	108.7	-	-	-	1.0	1.0	-	-	-	-	-
Route Connector 4Q	0.4	8.4	71.5	-	-	2.0	39.0	41.0	-	-	1.0	31.0	32.0

Note: 0-50' is used to describe what is present within the ROW and 0-500' is used to described what is present within the route width.

APPENDIX G
DATA ANALYSIS TABLES - SEGMENT 4

SEGMENT	Human Settlement - Aesthetics													
	Right-of-Way Paralleling by Type													
	Transmission Line		Road		Railroad		Transmission Line, Road, Railroad, or Pipeline		Field, Parcel, or Section Lines		Total Paralleling		Total Length not Paralleling Existing Infrastructure or Division Lines	
	Length	Length	Length	Length	Length	Length	Length	Length	Length	Length	Length	Length	Length	Length
	Length (mi)	Percent	Length (mi)	Percent	Length (mi)	Percent	Length (mi)	Percent	Length (mi)	Percent	Length (mi)	Percent	Length (mi)	Percent
Segment 4 West	7.7	32.4	3.2	13.5	-	-	10.9	45.9	19.0	80.5	21.1	89.3	2.5	10.5
Segment 4 West Modification	11.3	49.6	6.0	26.5	-	-	14.5	63.7	19.8	87.1	21.6	95.0	1.1	5.0
Segment 4 East	6.5	33.4	14.4	73.4	-	-	16.1	82.1	18.3	93.3	18.6	94.7	1.0	5.3
Segment 4 CapX Co-Locate Option	13.7	83.8	0.0	0.0	-	-	13.7	83.8	7.8	47.5	14.7	89.8	1.7	10.2
Route Segment 4C	0.5	41.3	0.3	24.7	-	-	0.8	66.0	1.2	100.0	1.2	100.0	-	-
Route Segment 4C Equivalent	0.0	0.0	-	-	-	-	0.0	0.0	1.2	100.0	1.2	100.0	-	-
Route Segment 4E	-	-	2.4	68.4	-	-	2.4	68.4	2.9	82.9	2.9	82.9	0.6	17.1
Route Segment 4E Equivalent	-	-	3.1	100.0	-	-	3.1	100.0	2.5	78.6	3.1	100.0	-	-
Route Segment 4M	-	-	1.0	100.0	-	-	1.0	100.0	1.0	100.0	1.0	100.0	-	-
Route Segment 4M Equivalent	0.3	25.0	-	-	-	-	0.3	25.0	0.5	48.4	0.5	49.4	0.5	50.6
Route Segment 4R	-	-	0.0	3.5	-	-	0.0	3.5	0.6	100.0	0.6	100.0	-	-
Route Segment 4R Equivalent	-	-	0.1	14.6	-	-	0.1	14.6	0.3	58.3	0.3	58.3	0.2	41.7
Alignment Alternative 15 Equivalent	1.2	91.0	-	-	-	-	1.2	91.0	0.2	14.5	1.2	91.0	-	-
Alignment Alternative 15	0.8	69.3	0.3	23.9	-	-	1.1	93.2	0.1	10.1	1.1	93.2	0.1	6.8
Alignment Alternative 16	-	-	0.2	100.0	-	-	0.2	100.0	0.2	100.0	0.2	100.0	-	-
Alignment Alternative 16 Equivalent	0.2	100.0	0.2	100.0	-	-	0.2	100.0	0.2	100.0	0.2	100.0	-	-
Route Connector 4G	-	-	-	-	-	-	-	-	0.7	100.0	0.7	100.0	-	-
Route Connector 4Q	-	-	0.4	100.0	-	-	0.4	100.0	0.4	100.0	0.4	100.0	-	-

Note: 0-50' is used to describe what is present within the ROW and 0-500' is used to describe what is present within the route width.

APPENDIX G
DATA ANALYSIS TABLES - SEGMENT 4

SEGMENT	Human Settlement - Recreation										Airports / Heliports	Land-based Economies - Agriculture		
	MN Department of Natural Resources State Water Trails		Scenic Byways			Snowmobile Trails			Wild and Scenic Rivers					
											Private	Natural Resource Conservation Service Prime Farmland by Type	Total Prime Farmland	Total Prime Farmland
	Segment 4 West	6.0	7,549.5	-	-	-	2.0	327.3	5,064.0	-	-	-	750.3	2,042.0
Segment 4 West Modification	6.0	9,563.0	-	-	-	2.0	797.6	24,877.0	-	-	-	523.7	1,801.3	
Segment 4 East	3.0	4,328.8	-	-	-	8.0	4,965.7	19,989.0	-	-	-	474.6	1,520.7	
Segment 4 CapX Co-Locate Option	1.0	1,791.3	-	-	-	10.0	3,288.0	16,167.4	-	-	-	603.2	1,341.3	
Route Segment 4C	-	-	-	-	-	2.0	3,963.3	5,134.6	-	-	-	42.5	120.5	
Route Segment 4C Equivalent	-	-	-	-	-	-	145.7	1,002.4	-	-	-	43.0	117.0	
Route Segment 4E	-	-	-	-	-	-	-	438.9	-	-	-	52.9	257.4	
Route Segment 4E Equivalent	-	-	-	-	-	-	-	438.9	-	-	-	51.8	260.7	
Route Segment 4M	-	-	-	-	-	-	-	-	-	-	-	26.3	93.7	
Route Segment 4M Equivalent	-	-	-	-	-	-	-	-	-	-	-	30.5	90.7	
Route Segment 4R	-	-	-	-	-	-	-	-	-	-	-	30.0	21.0	
Route Segment 4R Equivalent	-	-	-	-	-	-	-	-	-	-	-	33.7	16.1	
Alignment Alternative 15 Equivalent	1.0	1,237.2	-	-	-	1.0	159.6	2,487.4	-	-	-	37.1	35.3	
Alignment Alternative 15	1.0	1,042.0	-	-	-	1.0	159.2	2,599.0	-	-	-	35.8	41.1	
Alignment Alternative 16	-	-	-	-	-	-	-	-	-	-	-	2.6	32.1	
Alignment Alternative 16 Equivalent	-	-	-	-	-	-	-	-	-	-	-	2.8	32.5	
Route Connector 4G	-	-	-	-	-	-	-	-	-	-	-	14.2	40.1	
Route Connector 4Q	-	-	-	-	-	-	-	-	-	-	-	6.6	47.3	

Note: 0-50' is used to describe what is present within the ROW and 0-500' is used to described what is present within the route width.

APPENDIX G
DATA ANALYSIS TABLES - SEGMENT 4

SEGMENT	Archaeological and Historic Resources													
	Cultural Resources - Archaeological Resources										Cultural Resources - Historical Resources			
	0-50 ft Count	50-250 Count	250-500 Count	500-1,600 Count	1,600-5,280 Count	0-50 ft Area (sq ft)	50-250 (ft) Area (sq ft)	250-500 (ft) Area (sq ft)	500-1,600 (ft) Area (sq ft)	1,600-5,280 (ft) Area (sq ft)	0-50 ft Count	50-500 Count	500-5,280 Count	Total Count
Segment 4 West	1.0	-	2.0	-	7.0	20.6	-	138.5	-	986.2	1.0	2.0	170.0	173.0
Segment 4 West Modification	1.0	-	4.0	-	10.0	21.2	-	151.8	-	1,700.6	1.0	5.0	171.0	177.0
Segment 4 East	1.0	-	5.0	-	16.0	0.3	-	0.7	-	498.4	8.0	26.0	103.0	137.0
Segment 4 CapX Co-Locate Option	1.0	-	2.0	-	8.0	0.7	-	1.8	-	54.1	2.0	3.0	73.0	78.0
Route Segment 4C	1.0	-	1.0	-	2.0	0.7	-	0.8	-	126.3	-	-	9.0	9.0
Route Segment 4C Equivalent	-	-	1.0	-	2.0	-	-	0.2	-	351.6	-	-	25.0	25.0
Route Segment 4E	-	-	-	-	8.0	-	-	-	-	1.7	-	11.0	65.0	76.0
Route Segment 4E Equivalent	-	-	-	-	9.0	-	-	-	-	1.8	4.0	7.0	66.0	77.0
Route Segment 4M	-	-	-	-	1.0	-	-	-	-	10.5	1.0	-	3.0	4.0
Route Segment 4M Equivalent	-	-	-	-	1.0	-	-	-	-	10.5	-	-	2.0	2.0
Route Segment 4R	-	-	-	-	3.0	-	-	-	-	4.8	-	-	4.0	4.0
Route Segment 4R Equivalent	-	-	-	-	3.0	-	-	-	-	4.8	-	1.0	3.0	4.0
Alignment Alternative 15 Equivalent	-	-	1.0	-	1.0	-	-	0.2	-	1.0	-	1.0	2.0	3.0
Alignment Alternative 15	1.0	-	1.0	-	1.0	0.8	-	1.0	-	1.0	-	1.0	2.0	3.0
Alignment Alternative 16	-	-	-	-	-	-	-	-	-	-	-	-	2.0	2.0
Alignment Alternative 16 Equivalent	-	-	-	-	-	-	-	-	-	-	-	-	2.0	2.0
Route Connector 4G	-	-	-	-	-	-	-	-	-	-	-	-	1.0	1.0
Route Connector 4Q	-	-	-	-	2.0	-	-	-	-	2.5	-	-	7.0	7.0

Note: 0-50' is used to describe what is present within the ROW and 0-500' is used to describe what is present within the route width.

APPENDIX G
DATA ANALYSIS TABLES - SEGMENT 4

SEGMENT	Archaeological and Historic Resources									
	Cultural Resources - Historical Cemeteries									
	0-50 ft	50-250 ft	250-500 ft	500-1,600 ft	1,600-5,280 ft	0-50 ft	50-250 (ft)	250-500 (ft)	500-1,600 (ft)	1,600-5,280 (ft)
	Area (sq ft)	Area (sq ft)	Area (sq ft)	Area (sq ft)	Area (sq ft)	Area (sq ft)	Area (sq ft)	Area (sq ft)	Area (sq ft)	Area (sq ft)
Segment 4 West	41.0	-	131.0	-	275.0	61.0	-	551.8	-	3,689.1
Segment 4 West Modification	36.0	-	121.0	-	258.0	43.1	-	289.3	-	2,861.4
Segment 4 East	73.0	-	185.0	-	359.0	85.7	-	569.1	-	6,138.6
Segment 4 CapX Co-Locate Option	53.0	-	174.0	-	314.0	118.6	-	868.3	-	8,282.3
Route Segment 4C	14.0	-	36.0	-	134.0	22.8	-	166.0	-	3,458.0
Route Segment 4C Equivalent	10.0	-	30.0	-	146.0	22.4	-	163.9	-	3,441.7
Route Segment 4E	-	-	3.0	-	19.0	-	-	5.5	-	1,201.9
Route Segment 4E Equivalent	-	-	4.0	-	24.0	-	-	5.8	-	1,120.5
Route Segment 4M	9.0	-	18.0	-	33.0	10.2	-	65.3	-	634.3
Route Segment 4M Equivalent	9.0	-	21.0	-	32.0	18.4	-	121.6	-	631.5
Route Segment 4R	-	-	-	-	-	-	-	-	-	-
Route Segment 4R Equivalent	-	-	-	-	-	-	-	-	-	-
Alignment Alternative 15 Equivalent	-	-	-	-	1.0	-	-	-	-	36.2
Alignment Alternative 15	-	-	-	-	1.0	-	-	-	-	36.2
Alignment Alternative 16	-	-	-	-	-	-	-	-	-	-
Alignment Alternative 16 Equivalent	-	-	-	-	-	-	-	-	-	-
Route Connector 4G	-	-	-	-	-	-	-	-	-	-
Route Connector 4Q	-	-	-	-	-	-	-	-	-	-

Note: 0-50' is used to describe what is present within the ROW and 0-500' is used to describe what is present within the route width.

APPENDIX G
DATA ANALYSIS TABLES - SEGMENT 4

SEGMENT	Natural Environment - Public and Designated Lands				Natural Environment - Vegetation									
	DNR Conservation Easements by Type				National Landcover Dataset									
	Federal CREP Easements	State RIM Easements	Forest Legacy	Perman-ent Wetland Program	Agricultural (cultivated crops; hay and pasture)		Forest (upland and wetland)		Herbaceous (upland and wetland)		Open Water		Developed (low-med-high intensity; open space)	
	0-500	0-500	0-500	0-500	0-50 ft	0-500 (ft)	0-50 ft	0-500 (ft)	0-50 ft	0-500 (ft)	0-50 ft	0-500 (ft)	0-50 ft	0-500 (ft)
	Area (sq ft)	Area (sq ft)	Area (sq ft)	Area (sq ft)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)
Segment 4 West	-	-	-	-	201.4	2,514.2	33.8	411.8	17.6	196.3	0.2	1.9	32.9	164.9
Segment 4 West Modification	-	-	-	-	174.7	1,973.7	28.0	308.9	16.9	203.4	0.2	3.3	55.6	237.7
Segment 4 East	-	-	-	-	102.1	1,261.1	10.4	221.6	29.2	212.1	0.4	4.5	94.0	745.3
Segment 4 CapX Co-Locate Option	-	-	-	-	159.2	1,944.1	18.7	215.3	13.2	116.2	1.8	24.5	5.8	132.1
Route Segment 4C	-	-	-	-	19.0	143.2	-	-	0.2	5.7	-	-	3.5	17.2
Route Segment 4C Equivalent	-	-	-	-	21.9	158.3	-	-	-	0.3	-	-	0.6	5.4
Route Segment 4E	-	-	-	-	26.2	169.3	1.0	22.1	6.9	31.7	-	-	23.2	171.2
Route Segment 4E Equivalent	-	-	-	-	34.7	211.1	4.0	29.5	8.1	46.1	-	-	16.3	145.8
Route Segment 4M	-	-	-	-	4.7	98.7	-	1.9	2.6	18.5	-	-	11.3	18.9
Route Segment 4M Equivalent	-	-	-	-	17.0	120.0	0.5	4.2	0.7	9.9	-	-	0.5	4.7
Route Segment 4R	-	-	-	-	8.5	62.2	1.4	17.6	0.3	3.0	-	-	0.6	3.5
Route Segment 4R Equivalent	-	-	-	-	9.5	61.2	0.2	16.0	-	4.6	-	-	1.0	4.2
Alignment Alternative 15 Equivalent	-	-	-	-	3.1	46.0	13.2	87.7	3.3	9.5	2.7	16.3	0.5	6.9
Alignment Alternative 15	-	-	-	-	7.8	55.3	11.6	80.5	0.7	5.9	1.4	11.5	1.0	11.1
Alignment Alternative 16	-	-	-	-	0.0	17.4	0.1	4.7	1.6	5.6	-	-	2.3	14.0
Alignment Alternative 16 Equivalent	-	-	-	-	0.8	16.4	0.0	4.9	0.1	4.9	-	-	3.1	15.2
Route Connector 4G	-	-	-	-	11.0	98.8	-	-	0.2	5.0	-	-	2.8	4.9
Route Connector 4Q	-	-	-	-	2.4	50.1	-	1.7	1.6	6.5	-	-	4.5	10.2

Note: 0-50' is used to describe what is present within the ROW and 0-500' is used to described what is present within the route width.

APPENDIX G
DATA ANALYSIS TABLES - SEGMENT 4

SEGMENT	Natural Environment - Surface Water								
	National Hydrography Dataset Waterbodies		Public Water Inventory Basins			Impaired Streams	National Hydrography Dataset Watercourses	Trout Streams	Public Water Inventory Streams
	Crossing Count	0-500 ft Area (ac)	Crossing Count	0-50 ft Area (ac)	0-500 ft Area (ac)	Crossing Count	Crossing Count	Crossing Count	Crossing Count
Segment 4 West		3.1		-		3.0	29.0	-	5.0
Segment 4 West Modification		2.7		-		3.0	25.0	-	5.0
Segment 4 East	5.0	72.8	5.0	5.7	58.5	3.0	22.0	-	3.0
Segment 4 CapX Co-Locate Option	1.0	35.6	1.0	1.9	22.9	-	30.0	-	1.0
Route Segment 4C	-	-	-	-	-	-	1.0	-	-
Route Segment 4C Equivalent	-	-	-	-	-	-	1.0	-	-
Route Segment 4E	-	1.5	-	-	1.3	-	3.0	-	-
Route Segment 4E Equivalent	1.0	12.7	1.0	1.2	10.4	-	3.0	-	-
Route Segment 4M	-	-	-	-	-	-	1.0	-	-
Route Segment 4M Equivalent	-	-	-	-	-	-	2.0	-	-
Route Segment 4R	-	0.0	-	-	-	-	1.0	-	-
Route Segment 4R Equivalent	-	1.8	-	-	-	-	1.0	-	-
Alignment Alternative 15 Equivalent	1.0	27.3	1.0	2.8	18.0	-	1.0	-	1.0
Alignment Alternative 15	1.0	20.6	1.0	1.4	12.3	-	1.0	-	1.0
Alignment Alternative 16	-	-	-	-	-	-	-	-	-
Alignment Alternative 16 Equivalent	-	-	-	-	-	-	-	-	-
Route Connector 4G	-	-	-	-	-	-	1.0	-	-
Route Connector 4Q	-	-	-	-	-	-	-	-	-

Note: 0-50' is used to describe what is present within the ROW and 0-500' is used to describe what is present within the route width.

APPENDIX G
DATA ANALYSIS TABLES - SEGMENT 4

SEGMENT	National Wetland Inventory Wetlands								MN Department of Natural Resources Lakes of Biological Significance		MN Department of Natural Resources Native Plant Communities			MN Department of Natural Resources Site of Biodiversity Significance		MN Department of Natural Resources Railroad ROW Prairies
	Crossings >1,000 ft Count	Forested		Non Forested		Total										
		0-50 ft	0-500 ft	0-50 ft	0-500 ft	0-50 ft	0-500 ft									
		Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)									
		Count	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Crossings >1,000 ft Count	Crossings Count	Count	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Crossings Count
Segment 4 West	1.0	5.7	76.6	5.2	79.7	10.9	156.4	-	-	-	3.0	35.8	6.1	77.7	-	
Segment 4 West Modification	1.0	6.4	76.7	4.9	68.9	11.3	145.6	-	-	-	3.0	47.0	4.3	58.1	-	
Segment 4 East	-	0.6	14.4	8.0	92.7	8.6	107.1	-	-	-	-	8.2	0.5	30.4	-	
Segment 4 CapX Co-Locate Option	-	1.4	13.9	2.4	41.3	3.7	55.2	-	-	-	5.3	27.9	9.5	109.8	-	
Route Segment 4C	-	-	-	-	1.6	-	1.6	-	-	-	-	-	-	-	-	
Route Segment 4C Equivalent	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Route Segment 4E	-	-	0.1	-	2.3	-	2.4	-	-	-	-	-	-	0.9	-	
Route Segment 4E Equivalent	-	0.2	6.7	1.4	11.7	1.6	18.4	-	-	-	-	-	0.7	15.1	-	
Route Segment 4M	-	0.4	2.3	2.0	14.3	2.4	16.5	-	-	-	-	-	-	-	-	
Route Segment 4M Equivalent	-	1.3	8.3	1.0	7.8	2.3	16.1	-	-	-	-	-	-	-	-	
Route Segment 4R	-	-	-	0.7	2.0	0.7	2.0	-	-	-	0.6	11.5	0.6	16.1	-	
Route Segment 4R Equivalent	-	-	-	0.2	4.3	0.2	4.3	-	-	-	0.1	5.1	0.1	9.7	-	
Alignment Alternative 15 Equivalent	-	0.8	5.2	2.7	17.0	3.5	22.2	-	-	-	4.0	27.9	5.8	54.4	-	
Alignment Alternative 15	-	0.8	4.8	1.4	11.4	2.1	16.2	-	-	-	0.9	18.2	3.3	36.0	-	
Alignment Alternative 16	-	-	-	0.1	1.6	0.1	1.6	-	-	-	-	-	-	-	-	
Alignment Alternative 16 Equivalent	-	-	-	-	1.3	-	1.3	-	-	-	-	-	-	-	-	
Route Connector 4G	-	-	-	1.2	6.5	1.2	6.5	-	-	-	-	-	-	-	-	
Route Connector 4Q	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Note: 0-50' is used to describe what is present within the ROW and 0-500' is used to describe what is present within the route width.

APPENDIX G
DATA ANALYSIS TABLES - SEGMENT 4

SEGMENT	MN Department of Natural Resources Designated Shallow Wildlife Lakes	MN Department of Natural Resources Wildlife Management Areas		MN Department of Natural Resources State Game Refuge		United States Fish and Wildlife Service Grassland Bird Conservation Area		Audubon Important Bird Areas		USFWS Waterfowl Production Areas
		0-50 ft	0-500 ft	0-50 ft	0-500 (ft)	0-50 ft	0-500 (ft)	0-50 ft	0-500 (ft)	0-500 (ft)
		Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)
	Crossing Count									
Segment 4 West	-	-	-	-	-	-	-	-	-	-
Segment 4 West Modification	-	-	-	-	-	33.0	328.0	-	-	-
Segment 4 East	-	-	-	-	-	-	-	-	-	-
Segment 4 CapX Co-Locate Option	-	-	-	-	-	-	-	-	-	-
Route Segment 4C	-	-	-	-	-	-	-	-	-	-
Route Segment 4C Equivalent	-	-	-	-	-	-	-	-	-	-
Route Segment 4E	-	-	-	-	-	-	-	-	-	-
Route Segment 4E Equivalent	-	-	-	-	-	-	-	-	-	-
Route Segment 4M	-	-	-	-	-	-	-	-	-	-
Route Segment 4M Equivalent	-	-	-	-	-	-	-	-	-	-
Route Segment 4R	-	-	-	-	-	-	-	-	-	-
Route Segment 4R Equivalent	-	-	-	-	-	-	-	-	-	-
Alignment Alternative 15 Equivalent	-	-	-	-	-	-	-	-	-	-
Alignment Alternative 15	-	-	-	-	-	-	-	-	-	-
Alignment Alternative 16	-	-	-	-	-	-	-	-	-	-
Alignment Alternative 16 Equivalent	-	-	-	-	-	-	-	-	-	-
Route Connector 4G	-	-	-	-	-	12.4	90.6	-	-	-
Route Connector 4Q	-	-	-	-	-	-	-	-	-	-

Note: 0-50' is used to describe what is present within the ROW and 0-500' is used to described what is present within the route width.

APPENDIX G
DATA ANALYSIS TABLES - SEGMENT 4

SEGMENT	Wildlife Action Network				Natural Environment - Soil				
	High or Medium-High Rank	Medium Rank	Low or Medium-Low Rank	Total	Hydric Soils	Compaction Prone	Rutting Hazard	Erosion Hazard (Off-Road, Off-Trail)	Revegetation Concerns
					Hydric soils (100%) and predominantly hydric soils (67-99%)	Compaction prone soil rating of medium or higher	Rutting hazard rating of moderate or severe	Erosion hazard rating of medium, severe, or very severe	Non-irrigated land capability classification of 3 or greater
					0-50 ft	0-50 ft	0-50 ft	0-50 ft	0-50 ft
					Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)
Segment 4 West	9.0	-	18.0	27.0	25.7	245.0	283.0	184.0	20.0
Segment 4 West Modification	9.0	-	16.0	25.0	18.8	192.0	273.0	141.0	14.0
Segment 4 East	1.0	1.0	7.0	9.0	4.3	223.0	232.0	146.0	19.0
Segment 4 CapX Co-Locate Option	4.0	0.0	19.0	23.0	2.6	199.0	197.0	153.0	34.0
Route Segment 4C	-	-	-	-	-	22.8	22.8	18.4	0.5
Route Segment 4C Equivalent	-	-	-	-	-	22.4	22.4	20.9	0.0
Route Segment 4E	-	-	-	-	0.3	56.8	57.4	21.5	1.2
Route Segment 4E Equivalent	-	0.0	-	0.0	1.7	62.1	62.1	23.9	3.7
Route Segment 4M	-	-	-	-	7.0	11.5	18.5	11.0	-
Route Segment 4M Equivalent	-	-	-	-	3.9	14.8	18.7	12.9	2.3
Route Segment 4R	-	-	-	-	-	10.8	10.8	10.1	2.1
Route Segment 4R Equivalent	-	-	-	-	-	10.7	10.7	10.3	5.9
Alignment Alternative 15 Equivalent	5.2	0.0	10.8	16.0	-	20.1	20.1	19.1	6.7
Alignment Alternative 15	3.7	0.8	11.7	16.2	-	20.8	21.3	20.2	6.6
Alignment Alternative 16	-	-	-	-	-	4.0	4.0	3.2	-
Alignment Alternative 16 Equivalent	-	-	-	-	-	4.0	4.0	2.9	-
Route Connector 4G	-	-	-	-	3.6	10.4	14.0	1.8	-
Route Connector 4Q	-	-	-	-	-	8.4	8.4	7.0	-

Note: 0-50' is used to describe what is present within the ROW and 0-500' is used to describe what is present within the route width.