DOCKET NO. 5-CE-142

Table 2 - General Route Impacts

See below for table Instructions and acceptable abbreviations

NORTHERN ROUTE

Segment / sub-segment ID	Project Total ROW (New + Existing)					Existing ROW (Include only overlapping existing easements)					New ROW		Comments
	Total Segment Length (ft)	Total Segment Length (mi)	Sub-segment or Segment Length (ft)	Total ROW Width (ft)[1]	Total ROW Area (acres)	ROW Type	Existing ROW Length Shared (ft)	Existing ROW Width (ft)	Existing ROW Width Shared (ft)	Shared ROW Area (acres)	New ROW Width (ft)[2]	New ROW Area (acres)	
P													
P0	803	0.2	803	120	2.2	---	0	0	0	0.0	120	2.2	Sub-segment exiting the Briggs Road Substation
P1	4,434	0.8	4,434	120	12.2	TL	4,434	80	80	8.1	40	4.1	DC with existing TL
P2	2,897	0.5	2,897	120	8.0	---	0	0	0	0.0	120	8.0	One span shares ROW with Hwy XX
P3	2,973	0.6	2,973	120	8.2	RD	2,973	66	58	4.0	62	4.2	New ROW width is averaged over this sub-segment (range 0-75 ft)
P4	2,464	0.5	2,464	120	6.8	---	0	0	0	0.0	120	6.8	---
P5	5,406	1.0	5,406	120	14.9	TL	5,406	80	80	9.9	40	5.0	DC with existing TL; 2 spans share ROW with local road
P6	1,825	0.3	1,825	120	5.0	RD	1,825	215	58	2.4	62	2.6	Existing road ROW width is an average; New ROW width is averaged over this sub-segment (range 59-88 ft)
P7	1,824	0.3	1,824	120	5.0	---	0	0	0	0.0	120	5.0	---
P8	756	0.1	756	120	2.1	RD	756	306	111	1.9	9	0.2	Existing road ROW width is an average; New ROW width is averaged over this sub-segment (range 0-11 ft)
P9	23,071	4.4	23,071	120	63.6	RD	23,071	215	79	41.8	41	21.7	Existing road ROW width is an average; New ROW width is averaged over this sub-segment (range 0-120 ft)
P10	4,058	0.8	4,058	120	11.2	---	0	0	0	0.0	120	11.2	One span shares ROW with local road; Other spans parallel approved CAPX 345kV TL but do not overlap ROW with this line
TOTAL P	50,511	9.6	---	---	139.1	---	38,465	---	---	68.2	---	70.9	
P-East													
O0a	1,376	0.3	1,376	120	3.9	---	0	0	0	0.0	120	3.9	Sub-segment exiting the Briggs Road Substation
P11	1,631	0.3	1,631	120	3.6	---	0	0	0	0.0	120	3.6	Sub-segment exiting the Briggs Road Substation
P12	6,371	1.2	6,371	100	14.6	RD	6,371	330	84	12.3	16	2.3	Existing road ROW width is an average; New ROW width is averaged over this sub-segment (range 0-36 ft)
P13	2,692	0.5	2,692	100	6.2	---	0	0	0	0.0	100	6.2	Parallels the approved CAPX 345kV TL but does not overlap ROW with this line
P14	7,884	1.5	7,884	120	21.7	RD	7,884	347	92	16.7	28	5.1	Existing road ROW width is an average; New ROW width is averaged over this sub-segment (range 0-91 ft)
P9	23,071	4.4	23,071	120	63.6	RD	23,071	215	79	41.8	41	21.7	Existing road ROW width is an average; New ROW width is averaged over this sub-segment (range 0-120 ft)
P10	4,058	0.8	4,058	120	11.2	---	0	0	0	0.0	120	11.2	One span shares ROW with local road; other spans parallel approved CAPX 345kV TL but do not overlap ROW with this line
TOTAL P-East	47,083	8.9	---	---	124.8	---	37,326	---	---	70.8	---	54.0	
N													
N1	17,942	3.4	17,942	120	49.4	TL	17,942	100	100	41.2	20	8.2	2 spans require additional ROW width (225 and 320 ft); DC with existing TL
N2	7,902	1.5	7,902	189	34.3	TL	7,902	100	100	18.1	89	16.1	Total ROW width is a weighted average of spans in this sub-segment (range 160-270 ft); DC with existing TL; 1 span also occurs along local road

Table 2 - General Route Impacts

See below for table Instructions and acceptable abbreviations

NORTHERN ROUTE

Segment / sub-segment ID	Project Total ROW (New + Existing)					Existing ROW (Include only overlapping existing easements)					New ROW		Comments
	Total Segment Length (ft)	Total Segment Length (mi)	Sub-segment or Segment Length (ft)	Total ROW Width (ft)[1]	Total ROW Area (acres)	ROW Type	Existing ROW Length Shared (ft)	Existing ROW Width (ft)	Existing ROW Width Shared (ft)	Shared ROW Area (acres)	New ROW Width (ft)[2]	New ROW Area (acres)	
N3a	58,224	11.0	58,224	120	160.4	TL	58,224	100	100	133.7	20	26.7	5 spans require additional ROW width (range 135-150 ft); DC with existing TL; 2 spans with no ROW sharing near substation
N3b	94,913	18.0	94,913	120	261.5	TL	94,913	120	120	261.5	0	0.0	5 spans require additional ROW width (range 135-175 ft); DC with existing TL; centerline moved from existing TL ROW for 2 spans to increase distance to residence and to straighten line
N4	3,656	0.7	3,656	120	10.1	TL/GL	3,656	120	120	10.1	0	0.0	Sharing with TL (120 ft) and GL (80 ft) however amount of existing corridor overlap unknown; assume existing ROW 120 ft wide based on clearing in wooded area
N5	9,131	1.7	9,131	120	25.2	TL	9,131	120	120	25.2	0	0.0	DC with existing TL; centerline shifted from existing TL ROW for 2 spans to reduce impact to golf course
N6	112,466	21.3	112,466	100	258.2	RD	112,466	412	80	206.5	20	51.6	Existing road ROW width is an average; New ROW width is averaged over this sub-segment (range 0-100 ft); GL occurs in road ROW for about 1,700 ft at north end
N7	38,985	7.4	38,985	120	107.4	RD	38,985	378	102	91.3	18	16.1	Existing road ROW width is an average; New ROW width is averaged over this sub-segment (range 0-104 ft); one span has 70 ft wide ROW
N8	4,286	0.8	4,286	100	9.8	RD	4,286	294	81	8.0	19	1.9	Existing road ROW width is an average; New ROW width is averaged over this sub-segment (range 0-48 ft)
N9	48,159	9.1	48,159	120	132.7	RD	48,159	355	79	87.3	41	45.3	Existing road ROW width is an average; New ROW width is averaged over this sub-segment (range 0-120 ft)
N10	5,859	1.1	5,859	100	13.5	---	0	0	0	0.0	100	13.5	---
N11	7,700	1.5	7,700	120	21.2	RD	7,700	28	25	4.4	95	16.8	Existing road ROW width is an average; New ROW width is averaged over this sub-segment (range 0-120 ft); 2 spans are cross country to avoid a cemetery
N12	10,336	2.0	10,336	120	28.5	---	0	0	0	0.0	120	28.5	---
N13	5,252	1.0	5,252	150	18.1	---	0	0	0	0.0	150	18.1	---
N14	11,574	2.2	11,574	120	31.9	---	0	0	0	0.0	120	31.9	---
N15	15,648	3.0	15,648	120	43.1	RD	15,648	362	58	20.8	62	22.3	Existing road ROW width is an average; New ROW width is averaged over this sub-segment (range 0-120 ft)
N16	6,343	1.2	6,343	150	21.8	RD	6,343	457	119	17.3	31	4.5	Existing road ROW width is an average; New ROW width is averaged over this sub-segment (range 0-111 ft)
N17	30,648	5.8	30,648	120	84.4	RD	30,648	404	80	56.3	40	28.1	Existing road ROW width is an average; New ROW width is averaged over this sub-segment (range 0-120 ft)
N18	3,860	0.7	3,860	100	8.9	RD	3,860	413	97	8.6	3	0.3	Existing road ROW width is an average; New ROW width is averaged over this sub-segment (range 0-90 ft); one span has 70 ft wide ROW
N19	4,143	0.8	4,143	120	11.4	RD	4,143	277	86	8.2	34	3.2	Existing road ROW width is an average; New ROW width is averaged over this sub-segment (range 0-120 ft)
N20	820	0.2	820	120	2.3	RD/TL	820	331	112	2.1	8	0.2	DC with existing TL; New ROW width incorporates road sharing and the TL ROW (60 ft) and is averaged over this sub-segment (range 0-26 ft); existing road ROW width is an average

Table 2 - General Route Impacts

See below for table Instructions and acceptable abbreviations

NORTHERN ROUTE

Segment / sub-segment ID	Project Total ROW (New + Existing)					Existing ROW (Include only overlapping existing easements)					New ROW		Comments
	Total Segment Length (ft)	Total Segment Length (mi)	Sub-segment or Segment Length (ft)	Total ROW Width (ft)[1]	Total ROW Area (acres)	ROW Type	Existing ROW Length Shared (ft)	Existing ROW Width (ft)	Existing ROW Width Shared (ft)	Shared ROW Area (acres)	New ROW Width (ft)[2]	New ROW Area (acres)	
N21	28,181	5.3	28,181	120	77.6	RD	28,181	329	67	43.3	53	34.3	Existing road ROW width is an average; New ROW width is averaged over this sub-segment (range 0-120 ft)
N22	3,635	0.7	3,635	120	10.0	RD	3,635	366	87	7.3	33	2.8	Existing road ROW width is an average; New ROW width is averaged over this sub-segment (range 0-120 ft); adjacent TL will be brought over to DC with the proposed TL however there is no ROW overlap with this existing TL
N23	14,809	2.8	14,809	120	40.8	TL	14,809	60	60	20.4	60	20.4	DC with existing TL
TOTAL N	544,472	103.1	---	---	1462.4	---	511,451	---	---	1,071.6	---	390.8	
M													
M1	17,241	3.3	17,241	120	47.5	TL	17,241	60	60	23.7	60	23.7	DC with existing TL
TOTAL M	17,241	3.3	---	---	47.5	---	17,241	---	---	23.7	---	23.7	
K													
K1	22,187	4.2	22,187	120	61.1	RD	22,187	484	72	36.7	48	24.4	Existing road ROW width is an average; New ROW width is averaged over this sub-segment (range 0-120 ft)
TOTAL K	22,187	4.2	---	---	61.1	---	22,187	---	---	36.7	---	24.4	
J													
J1	12,049	2.3	12,049	120	33.2	RD	12,049	410	58	16.0	62	17.1	Existing road ROW width is an average; New ROW width is averaged over this sub-segment (range 0-108 ft); 1 span requires 195 ft ROW
TOTAL J	12,049	2.3	---	---	33.2	---	12,049	---	---	16.0	---	17.1	
H													
H1	18,866	3.6	18,866	120	52.0	RD	18,866	317	47	20.4	73	31.6	Existing road ROW width is an average; New ROW width is averaged over this sub-segment (range 0-120 ft)
H2	4,292	0.8	4,292	100	9.9	RD	4,292	355	73	7.2	27	2.7	Existing road ROW width is an average; New ROW width is averaged over this sub-segment (range 0-55 ft)
H3	4,999	0.9	4,999	120	13.8	RD	4,999	312	34	3.9	86	9.9	Existing road ROW width is an average; New ROW width is averaged over this sub-segment (range 48-120 ft)
H4	5,210	1.0	5,210	120	14.4	---	0	0	0	0.0	120	14.4	---
H5	48,717	9.2	48,717	120	134.2	RD	48,717	299	32	35.8	88	98.4	Existing road ROW width is an average; New ROW width is averaged over this sub-segment (range 0-120 ft)
H6	1,462	0.3	1,462	100	3.4	RD	1,462	325	55	1.8	45	1.5	Existing road ROW width is an average; New ROW width is averaged over this sub-segment (range 41-56 ft)
H7	27,928	5.3	27,928	120	76.9	RD	27,928	275	34	21.8	86	55.1	Existing road ROW width is an average; New ROW width required is averaged over this sub-segment (range 0-120 ft)
H8	2,719	0.5	2,719	120	7.5	RD/TL	2,719	358	93	5.8	27	1.7	DC with existing TL; New ROW width incorporates road sharing and the TL ROW (80 ft) and is averaged over this sub-segment (range 5-45 ft); existing road ROW width is an average
H9	1,847	0.3	1,847	120	5.1	RD	1,847	1,558	97	4.1	23	1.0	Existing road ROW width is an average (occurs in large interchange); New ROW width is averaged over this sub-segment (range 0-72 ft)
TOTAL H	116,040	22.0	---	---	317.0	---	110,830	---	---	100.8	---	216.2	
G													
G1	9,705	1.8	9,705	120	26.7	RD	9,705	238	72	16.0	48	10.7	Existing road ROW width is an average; New ROW width is averaged over this sub-segment (range 10-85 ft)

Table 2 - General Route Impacts

See below for table Instructions and acceptable abbreviations

NORTHERN ROUTE

Segment / sub-segment ID	Project Total ROW (New + Existing)					Existing ROW (Include only overlapping existing easements)					New ROW		Comments
	Total Segment Length (ft)	Total Segment Length (mi)	Sub-segment or Segment Length (ft)	Total ROW Width (ft)[1]	Total ROW Area (acres)	ROW Type	Existing ROW Length Shared (ft)	Existing ROW Width (ft)	Existing ROW Width Shared (ft)	Shared ROW Area (acres)	New ROW Width (ft)[2]	New ROW Area (acres)	
G2	7,940	1.5	7,940	193	35.2	RD	7,940	288	62	11.3	131	23.9	Total ROW width is a weighted average of spans in this sub-segment (range 150-275 ft); existing road ROW width is an average; New ROW width is averaged over this sub-segment (range 0-275 ft)
G3	4,735	0.9	4,735	120	13.0	RD	4,735	369	70	7.6	50	5.4	Existing road ROW width is an average; New ROW width is averaged over this sub-segment (range 0-91 ft)
TOTAL G	22,380	4.2	---	---	75.0	---	22,380	---	---	35.0	---	40.0	
E													
E1	56,489	10.7	56,489	120	155.6	RD	56,489	342	66	85.6	54	70.0	Existing road ROW width is an average; New ROW width is averaged over this sub-segment (range 0-120 ft)
E2	12,302	2.3	12,302	120	33.9	---	0	0	0	0.0	120	33.9	Parallels an existing 345kV TL but does not overlap ROW
E0	285	0.1	285	120	0.8	---	0	0	0	0.0	120	0.8	Sub-segment entering the North Madison Substation
TOTAL E	69,076	13.1	---	---	190.3	---	56,489	---	---	85.6	---	104.7	
D													
D0	1,705	0.3	1,705	120	4.7	---	0	0	0	0.0	120	4.7	Sub-segment exiting the North Madison Substation; 2 short spans overlap existing TL on substation property but not included as ROW sharing due to short distance of sub-segment
D1	69,131	13.1	69,131	120	190.4	TL	69,131	100	100	158.7	20	31.7	DC with existing TL
D2	10,008	1.9	10,008	120	27.6	---	0	0	0	0.0	120	27.6	---
TOTAL D	80,844	15.3	---	---	222.7	---	69,131	---	---	158.7	---	64.0	
A													
A1	4,045	0.8	4,045	120	11.1	---	0	0	0	0.0	120	11.1	---
A2	1,299	0.2	1,299	120	3.6	RD	1,299	66	39	1.2	81	2.4	Existing road ROW width is an average; New ROW width is averaged over this sub-segment (range 81-86 ft)
A3	2,613	0.5	2,613	120	7.2	TL	2,613	100	100	6.0	20	1.2	DC with existing TL
A4	5,279	1.0	5,279	120	14.5	---	0	0	0	0.0	120	14.5	---
A5	2,730	0.5	2,730	120	7.5	TL/RD	2,730	120	101	6.3	19	1.2	DC with existing TL; New ROW width incorporates road sharing and the TL ROW (100 ft) and is averaged over this sub-segment (range 0-52 ft); existing road ROW width is an average
A6a	1,767	0.3	1,767	120	4.9	TL	1,767	100	100	4.1	20	0.8	DC with existing TL
A6b	3,500	0.7	3,500	120	9.6	TL	3,500	100	100	8.0	20	1.6	DC with existing TL
A7	1,650	0.3	1,650	120	4.5	DL	1,650	20	20	0.8	100	3.8	Assume DL ROW width is 20 ft
A8	437	0.1	437	120	1.2	---	0	0	0	0.0	120	1.2	---
A0	1,010	0.2	1,010	120	2.8	---	0	0	0	0.0	120	2.8	Sub-segment entering the Cardinal Substation
TOTAL A	24,330	4.6	---	---	67.0	---	13,559	---	---	26.3	---	40.7	
Total	**959,130**	**181.7**			**2,615.3**		**873,782**			**1,622.7**		**992.7**	
Total with P-East	**955,702**	**181.0**			**2,600.9**		**872,643**			**1,625.2**		**975.7**	

DOCKET NO. 5-CE-142

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NORTHERN ROUTE

Segment / sub-segment ID	Project Total ROW (New + Existing)					Existing ROW (Include only overlapping existing easements)					New ROW		Comments
	Total Segment Length (ft)	Total Segment Length (mi)	Sub-segment or Segment Length (ft)	Total ROW Width (ft)[1]	Total ROW Area (acres)	ROW Type	Existing ROW Length Shared (ft)	Existing ROW Width (ft)	Existing ROW Width Shared (ft)	Shared ROW Area (acres)	New ROW Width (ft)[2]	New ROW Area (acres)	
Total percent of route ROW area shared with existing ROW areas						**62%**							
Total percent of route ROW area shared with existing ROW areas (with P-East)						**62%**							

1 A weighted average was used to determine the Total ROW width for a given sub-segment when there was substantial variation among span widths within a sub-segment. This weighted average width was calculated by dividing the area of required ROW (Total ROW Area) by the sub-segment length. When a weighted average was used, it was noted in the "Comments" column. When a relatively small number of spans deviate from the Total ROW width, it was noted in the "Comments" column; however, a representative width was used (no weighted average calculated).

2 New ROW width for each sub-segment along roads and railroads was determined by digitizing in GIS the area of new ROW within the project ROW. The area of new ROW was then divided by theTotal ROW Area and the resulting quotient was multiplied by the Total ROW width to determine an average New ROW width for each sub-segment.

ROW Abbreviations	**ROW Type** (multiple codes may be used in one row)
TL	Transmission Line (69 kV and Greater)
DL	Distribution Lines (less Than 69 kV)
RR	Railroad
RD	Roadway
GL	Gas Pipeline

DOCKET NO. 5-CE-142

Table 2 - General Route Impacts

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SOUTHERN ROUTE

Segment / sub-segment ID	Project Total ROW (New + Existing)					Existing ROW (Include only overlapping existing easements)					New ROW		Comments
	Total Segment Length (ft)	Total Segment Length (mi)	Sub-segment or Segment Length (ft)	Total ROW Width (ft)[1]	Total ROW Area (acres)	ROW Type	Existing ROW Length Shared (ft)	Existing ROW Width (ft)	Existing ROW Width Shared (ft)	Shared ROW Area (acres)	New ROW Width (ft)[2]	New ROW Area (acres)	
O													
O0a	1,376	0.3	1,376	120	3.9	---	0	0	0	0.0	120	3.9	Sub-segment exiting Briggs Road Substation
O0	1,383	0.3	1,383	120	3.8	---	0	0	0	0.0	120	3.8	Sub-segment exiting Briggs Road Substation
O1	2,030	0.4	2,030	120	5.6	RD	2,030	348	120	5.6	0	0.0	Existing road ROW width is an average
O2	5,102	1.0	5,102	120	14.1	RD/TL	5,102	391	119	13.9	1	0.1	New ROW width incorporates road sharing and the TL ROW (100 ft) and is averaged over this sub-segment (range 0-40 ft); existing road ROW width is an average; DC with existing TL
O3	6,258	1.2	6,258	120	17.2	RD	6,258	301	102	14.7	18	2.6	New ROW width is averaged over this sub-segment (range 0-65 ft); existing road ROW width is an average
O4	13,633	2.6	13,633	120	37.6	RD	13,633	352	114	35.7	6	1.9	New ROW width is averaged over this sub-segment (range 0-52 ft); existing road ROW width is an average; adjacent to an existing TL for about 3,900 ft but generally no ROW overlap
O5	3,326	0.6	3,326	120	9.2	RD/TL	3,326	382	120	9.2	0	0.0	New ROW width incorporates road sharing and the TL ROW (100 ft); existing road ROW width is an average; adjacent to an existing TL with about 10 ft ROW overlap for the length of this sub-segment
O6	92,686	17.6	92,686	120	255.3	RD	92,686	384	92	195.8	28	59.6	New ROW width is averaged over this sub-segment (range 0-120 ft); existing road ROW width is an average
O7a	2,467	0.5	2,467	120	6.8	---	0	0	0	0.0	120	6.8	---
O7b	2,062	0.4	2,062	120	5.7	RD/TL	2,062	103	34	1.6	86	4.1	New ROW width incorporates road sharing and the TL ROW (80 ft) and is averaged over this sub-segment (range 84-89 ft); existing road ROW width is an average
O7c	1,381	0.3	1,381	120	3.8	RD	1,381	25	25	0.8	95	3.0	New ROW width is averaged over this sub-segment (range 90-98 ft); existing road ROW width is an average
O7d	20,726	3.9	20,726	120	57.1	---	0	0	0	0.0	120	57.1	About 1,400 feet of overlap with local road not included as ROW sharing as it represents a small percent of overall sub-segment length
O8	13,052	2.5	13,052	120	36.0	TL	13,052	50	50	15.0	70	21.0	Double circuit (DC) with existing TL
O9	5,560	1.1	5,560	120	15.3	RD/TL	5,560	75	64	8.2	56	7.1	New ROW width incorporates road sharing and the TL ROW (50 ft) and is averaged over this sub-segment (range 28-78 ft); existing road ROW width is an average
O10a	20,296	3.8	20,296	120	55.9	TL	20,296	100	100	46.6	20	9.3	DC with existing TL; several spans with no TL ROW sharing included
O10b	12,508	2.4	12,508	120	34.5	TL	12,508	50	50	14.4	70	20.1	DC with existing TL; several spans with no TL ROW sharing included; several short lengths of local road sharing also occurs
O11a	3,381	0.6	3,381	120	9.3	---	0	0	0	0.0	120	9.3	---
O11b	7,626	1.4	7,626	120	21.0	TL	7,626	80	40	7.0	80	14.0	DC with existing TL but offset 60 ft from existing centerline; 2 spans along local road also occur
O12	1,240	0.2	1,240	120	3.4	TL	1,240	80	80	2.3	40	1.1	DC with existing TL
O13	15,027	2.8	15,027	150	51.7	---	0	0	0	0.0	150	51.7	---
O14	26,098	4.9	26,098	202	121.0	---	0	0	0	0.0	202	121.0	Total ROW width is a weighted average of spans in this sub-segment (range 150-330 ft)

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SOUTHERN ROUTE

Segment / sub-segment ID	Project Total ROW (New + Existing)					Existing ROW (Include only overlapping existing easements)					New ROW		Comments
	Total Segment Length (ft)	Total Segment Length (mi)	Sub-segment or Segment Length (ft)	Total ROW Width (ft)[1]	Total ROW Area (acres)	ROW Type	Existing ROW Length Shared (ft)	Existing ROW Width (ft)	Existing ROW Width Shared (ft)	Shared ROW Area (acres)	New ROW Width (ft)[2]	New ROW Area (acres)	
O15	42,799	8.1	42,799	150	147.4	---	0	0	0	0.0	150	147.4	Several spans vary from the 150 ft ROW width required (range 170-230 ft); several spans along local road not included as ROW sharing as it represents a small percent of overall sub-segment length
O16	6,800	1.3	6,800	150	23.4	RD	6,800	52	51	8.0	99	15.5	New ROW width is averaged over this sub-segment (range 0-102 ft); existing road ROW width is an average; 1 span requires 120 ft ROW
O17	2,726	0.5	2,726	129	8.1	TL	2,726	80	80	5.0	49	3.1	Total ROW width is a weighted average of spans in this sub-segment (range 120-150 ft), DC with existing TL
O18	3,993	0.8	3,993	273	25.0	---	0	0	0	0.0	273	25.0	Total ROW width is a weighted average of spans in this sub-segment (range 240-305 ft)
O19	50,783	9.6	50,783	120	139.9	---	0	0	0	0.0	120	139.9	1 span requires 150 ft ROW; several spans along local road not included as ROW sharing as it represents a small percent of overall sub-segment length
O20	4,077	0.8	4,077	158	14.8	GL	4,077	20	20	1.9	138	12.9	Total ROW width is a weighted average of spans in this sub-segment (range 120-210 ft); GL ROW ranges from 20-60 ft, used 20 ft as a conservative estimate
O21	2,893	0.5	2,893	120	8.0	---	0	0	0	0.0	120	8.0	---
O22	20,921	4.0	20,921	120	57.6	TL	20,921	80	80	38.4	40	19.2	DC with existing TL
O23	4,251	0.8	4,251	120	11.7	RD/TL	4,251	85	84	8.2	36	3.5	New ROW width incorporates road sharing and the TL ROW (80 ft) and is averaged over this sub-segment (range 31-40 ft); existing road ROW width is an average
O24	13,165	2.5	13,165	120	36.3	TL	13,165	80	80	24.2	40	12.1	DC with existing TL
O25	7,013	1.3	7,013	120	19.3	RD/TL	7,013	71	51	8.2	69	11.1	New ROW width incorporates road sharing and the TL ROW (80 ft) and is averaged over this sub-segment (range 0-80 ft); existing road ROW width is an average; new TL offset 60 ft from existing TL centerline, existing TL will be DC on new TL
O26	12,341	2.3	12,341	120	34.0	RD	12,341	37	37	10.5	83	23.5	New ROW width is averaged over this sub-segment (range 0-120 ft); existing road ROW width is an average
O27	21,959	4.2	21,959	120	60.5	---	0	0	0	0.0	120	60.5	---
TOTAL O	450,939	85.4	---	---	1354.1	---	258,054	---	---	474.9	---	879.3	
M													
M1	17,241	3.3	17,241	120	47.5	TL	17,241	60	60	23.7	60	23.7	DC with existing TL
TOTAL M	17,241	3.3	---	---	47.5	---	17,241	---	---	23.7	---	23.7	
L													
L1	2,613	0.5	2,613	120	7.2	TL/RD	2,613	114	78	4.7	42	2.5	New ROW width incorporates road sharing and the TL ROW (60 ft) and is averaged over this sub-segment (range 0-60 ft); existing road ROW width is an average
L2	19,989	3.8	19,989	120	55.1	RR	19,989	129	49	22.5	71	32.6	New ROW width is averaged over this sub-segment (range 0-112 ft); existing RR ROW width is an average
TOTAL L	22,602	4.3	---	---	62.3	---	22,602	---	---	27.2	---	35.1	
J													

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Table 2 - General Route Impacts

See below for table Instructions and acceptable abbreviations

SOUTHERN ROUTE

Segment / sub-segment ID	Project Total ROW (New + Existing)					Existing ROW (Include only overlapping existing easements)					New ROW		Comments
	Total Segment Length (ft)	Total Segment Length (mi)	Sub-segment or Segment Length (ft)	Total ROW Width (ft)[1]	Total ROW Area (acres)	ROW Type	Existing ROW Length Shared (ft)	Existing ROW Width (ft)	Existing ROW Width Shared (ft)	Shared ROW Area (acres)	New ROW Width (ft)[2]	New ROW Area (acres)	
J1	12,049	2.3	12,049	120	33.2	RD	12,049	410	58	16.0	62	17.1	Existing road ROW width is an average; New ROW width is averaged over this sub-segment (range 0-108 ft); 1 span requires 195 ft ROW
TOTAL J	12,049	2.3	---	---	33.2	---	12,049	---	---	16.0	---	17.1	
I													
I1	2,212	0.4	2,212	120	6.1	RD	2,212	32	32	1.6	88	4.5	New ROW width is averaged over this sub-segment (range 13-120 ft); existing road ROW width is an average
I2	1,174	0.2	1,174	120	3.2	TL	1,174	60	60	1.6	60	1.6	DC with existing TL
I3	4,008	0.8	4,008	120	11.0	---	0	0	0	0.0	120	11.0	1 span along local road not included as ROW sharing as it represents a small percent of overall sub-segment length
I4	1,681	0.3	1,681	120	4.6	TL	1,681	75	75	2.9	45	1.7	DC with existing TL
I5	38,323	7.3	38,323	120	105.6	TL/RR	38,323	149	101	88.9	19	16.7	New ROW width incorporates RR sharing and the TL ROW (75 ft) and is averaged over this sub-segment (range 0-120 ft); existing RR ROW width is an average; DC along existing TL; last span has no ROW sharing
I6	5,643	1.1	5,643	120	15.5	RD	5,643	145	38	4.9	82	10.6	New ROW width is averaged over this sub-segment (range 0-120 ft); existing road ROW width is an average
I7	1,670	0.3	1,670	120	4.6	---	0	0	0	0.0	120	4.6	---
I8	23,186	4.4	23,186	120	63.9	RR/TL	23,186	146	96	51.1	24	12.8	New ROW width incorporates RR sharing and the TL ROW (75 ft) and is averaged over this sub-segment (range 0-52 ft); existing RR ROW width is an average; DC along existing TL
I9	2,645	0.5	2,645	120	7.3	---	0	0	0	0.0	120	7.3	---
I10	1,761	0.3	1,761	120	4.9	RR/TL	1,761	126	58	2.3	62	2.5	New ROW width incorporates RR sharing and the TL ROW (50 ft) and is averaged over this sub-segment (range 0-65 ft); existing RR ROW width is an average; DC along existing TL
I11	3,936	0.7	3,936	120	10.8	RR	3,936	99	43	3.9	77	7.0	New ROW width is averaged over this sub-segment (range 0-92 ft); existing RR ROW width is an average
I12	4,486	0.8	4,486	120	12.4	---	0	0	0	0.0	120	12.4	1 span along local road not included as ROW sharing as it represents a small percent of overall sub-segment length
I13	25,085	4.8	25,085	120	69.1	RD	25,085	201	52	29.9	68	39.2	New ROW width is averaged over this sub-segment (range 0-185 ft); existing road ROW width is an average; 1 span over WI River requires 185 ft ROW
TOTAL I	115,810	21.9	---	---	319.0	---	103,001	---	---	187.2	---	131.8	
G													
G1	9,705	1.8	9,705	120	26.7	RD	9,705	238	72	16.0	48	10.7	Existing road ROW width is an average; New ROW width is averaged over this sub-segment (range 10-85 ft)
G2	7,940	1.5	7,940	193	35.2	RD	7,940	288	62	11.3	131	23.9	Total ROW width is a weighted average of spans in this sub-segment (range 150-275 ft); existing road ROW width is an average; New ROW width is averaged over this sub-segment (range 0-275 ft)
G3	4,735	0.9	4,735	120	13.0	RD	4,735	369	70	7.6	50	5.4	Existing road ROW width is an average; New ROW width is averaged over this sub-segment (range 0-91 ft)
TOTAL G	22,380	4.2	---	---	75.0	---	22,380	---	---	35.0	---	40.0	
F													

Table 2 - General Route Impacts

See below for table Instructions and acceptable abbreviations

SOUTHERN ROUTE

Segment / sub-segment ID	Project Total ROW (New + Existing)					Existing ROW (Include only overlapping existing easements)					New ROW		Comments
	Total Segment Length (ft)	Total Segment Length (mi)	Sub-segment or Segment Length (ft)	Total ROW Width (ft)[1]	Total ROW Area (acres)	ROW Type	Existing ROW Length Shared (ft)	Existing ROW Width (ft)	Existing ROW Width Shared (ft)	Shared ROW Area (acres)	New ROW Width (ft)[2]	New ROW Area (acres)	
F1	20,611	3.9	20,611	120	56.8	---	0	0	0	0.0	120	56.8	---
F2	1,831	0.3	1,831	120	5.0	DL/RD	1,831	20	20	0.8	100	4.2	Assume DL and local road ROW width is 20 ft
F3	46,072	8.7	46,072	120	126.9	---	0	0	0	0.0	120	126.9	2 spans require additional ROW width (165 and 185 ft)
F4	7,663	1.5	7,663	120	21.1	RD	7,663	66	51	9.0	69	12.1	New ROW width is averaged over this sub-segment (range 0-74 ft)
F5	2,354	0.4	2,354	120	6.5	---	0	0	0	0.0	120	6.5	---
F0	576	0.1	576	120	1.6	---	0	0	0	0.0	120	1.6	Sub-segment entering the North Madison Substation
TOTAL F	79,107	15.0	---	---	217.9	---	9,494	---	---	9.8	---	208.1	
C													
C0	1,705	0.3	1,705	120	4.7	---	0	0	0	0.0	120	4.7	Sub-segment exiting the North Madison Substation; 2 short spans overlap existing TL on substation property but not included as ROW sharing due to short distance of sub-segment
C1	1,344	0.3	1,344	120	3.7	RD	1,344	66	53	1.6	67	2.1	ROW sharing with local road; New ROW width is averaged over this sub-segment (range 0-120 ft)
C2	4,005	0.8	4,005	120	11.0	---	0	0	0	0.0	120	11.0	---
C3	7,008	1.3	7,008	120	19.3	RD/TL	7,008	160	95	15.3	25	4.0	New ROW width incorporates road sharing and the TL ROW (80 ft) and is averaged over this sub-segment (range 0-26 ft); existing road ROW width is an average
C4	7,934	1.5	7,934	120	21.9	RD	7,934	97	50	9.1	70	12.7	New ROW width is averaged over this sub-segment (range 15-89 ft); existing road ROW width is an average
C5	24,731	4.7	24,731	120	68.1	---	0	0	0	0.0	120	68.1	---
C6	11,972	2.3	11,972	120	33.0	TL	11,972	100	100	27.5	20	5.5	DC with existing TL
C7	2,630	0.5	2,630	120	7.2	---	0	0	0	0.0	120	7.2	---
C8	9,180	1.7	9,180	120	25.3	RD	9,180	66	43	9.1	77	16.2	New ROW width is averaged over this sub-segment (range is 0-91 ft)
C9	12,102	2.3	12,102	120	33.3	---	0	0	0	0.0	120	33.3	---
TOTAL C	82,611	15.6	---	---	227.6	---	37,438	---	---	62.6	---	165.0	
B													
B1	6,723	1.3	6,723	120	18.5	---	0	0	0	0.0	120	18.5	1 span requires 140 ft ROW
B2	4,038	0.8	4,038	120	11.1	RD	4,038	131	47	4.4	73	6.8	New ROW width is averaged over this sub-segment (range 0-111 ft); existing road ROW width is an average
B3a	13,051	2.5	13,051	120	36.0	---	0	0	0	0.0	120	36.0	1 span requires 205 ft ROW
B3b	4,357	0.8	4,357	120	12.0	---	0	0	0	0.0	120	12.0	---
B4	7,236	1.4	7,236	120	19.9	TL	7,236	50	50	8.3	70	11.6	DC with existing TL
B5	2,746	0.5	2,746	120	7.6	RD	2,746	190	62	3.9	58	3.7	New ROW width is averaged over this sub-segment (range 0-76 ft); existing road ROW width is an average

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Table 2 - General Route Impacts

See below for table Instructions and acceptable abbreviations

SOUTHERN ROUTE

Segment / sub-segment ID	Project Total ROW (New + Existing)					Existing ROW (Include only overlapping existing easements)					New ROW		Comments
	Total Segment Length (ft)	Total Segment Length (mi)	Sub-segment or Segment Length (ft)	Total ROW Width (ft)[1]	Total ROW Area (acres)	ROW Type	Existing ROW Length Shared (ft)	Existing ROW Width (ft)	Existing ROW Width Shared (ft)	Shared ROW Area (acres)	New ROW Width (ft)[2]	New ROW Area (acres)	
B0	1,010	0.2	1,010	120	2.8	---	0	0	0	0.0	120	2.8	Sub-segment entering the Cardinal Substation
TOTAL B	39,161	7.4	---	---	107.9	---	14,020	---	---	16.6	---	91.3	
B-North													
B1	6,723	1.3	6,723	120	18.5	---	0	0	0	0.0	120	18.5	1 span requires 140 ft ROW
B2	4,038	0.8	4,038	120	11.1	RD	4,038	131	47	4.4	73	6.8	New ROW width is averaged over this sub-segment (range 0-111 ft); existing road ROW width is an average
B3a	13,051	2.5	13,051	120	36.0	---	0	0	0	0.0	120	36.0	1 span requires 205 ft ROW
B4a	7,946	1.5	7,946	120	21.9	---	0	0	0	0.0	120	21.9	---
A6b	3,500	0.7	3,500	120	9.6	TL	3,500	100	100	8.0	20	1.6	DC with existing TL
A7	1,650	0.3	1,650	120	4.5	DL	1,650	20	20	0.8	100	3.8	Assume DL ROW width is 20 ft
A8	437	0.1	437	120	1.2	---	0	0	0	0.0	120	1.2	---
A0	1,010	0.2	1,010	120	2.8	---	0	0	0	0.0	120	2.8	Sub-segment entering the Cardinal Substation
TOTAL B-NORTH	38,355	7.3	---	---	105.7	---	9,188	---	---	13.1	---	92.5	
Total	**841,900**	**159.5**			**2,444.5**		**496,279**			**852.9**		**1,591.5**	
Total with B-North	**841,094**	**159.3**			**2,442.3**		**491,447**			**849.5**		**1,592.7**	

Total percent of route ROW area shared with existing ROW areas	**35%**
Total percent of route ROW area shared with existing ROW areas (with Segment B-North)	**35%**

1 A weighted average was used to determine the Total ROW width for a given sub-segment when there was substantial variation among span widths within a sub-segment. This weighted average width was calculated by dividing the area of required ROW (Total ROW Area) by the sub-segment length. When a weighted average was used, it was noted in the "Comments" column. When a relatively small number of spans deviate from the Total ROW width, it was noted in the "Comments" column; however, a representative width was used (no weighted average calculated).

2 New ROW width for each sub-segment along roads and railroads was determined by digitizing in GIS the area of new ROW within the project ROW. The area of new ROW was then divided by theTotal ROW Area and the resulting quotient was multiplied by the Total ROW width to determine an average New ROW width for each sub-segment.

ROW Abbreviations	ROW Type (multiple codes may be used in one row)
TL	Transmission Line (69 kV and Greater)
DL	Distribution Lines (less Than 69 kV)
RR	Railroad

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Table 2 - General Route Impacts

See below for table Instructions and acceptable abbreviations

SOUTHERN ROUTE

Segment / sub-segment ID	Project Total ROW (New + Existing)					Existing ROW (Include only overlapping existing easements)					New ROW		Comments
	Total Segment Length (ft)	Total Segment Length (mi)	Sub-segment or Segment Length (ft)	Total ROW Width (ft)[1]	Total ROW Area (acres)	ROW Type	Existing ROW Length Shared (ft)	Existing ROW Width (ft)	Existing ROW Width Shared (ft)	Shared ROW Area (acres)	New ROW Width (ft)[2]	New ROW Area (acres)	
RD	Roadway												
GL	Gas Pipeline												

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Table 3 - Distances of Residential Buildings from ROW Centerline

Where there are zero buildings, leave the cell blank.

NORTHERN ROUTE

Segment ID	0 - 25 feet			26 - 50 feet			51 - 100 feet			101 - 150 feet			151 - 300 feet			Total Homes	Total Apartment Units	Total Apartment Buildings	Comments
	Homes	Apartments		Homes	Apartments		Homes	Apartments		Homes	Apartments		Homes	Apartments					
		Units	Buildings		Units	Buildings		Units	Buildings		Units	Buildings		Units	Buildings				
P							1			21			26			48	0	0	Residences include 2 mobile homes that are located within 300 feet of the centerline.
P-East							4	4	2	12	121	3	19	16	4	35	141	9	Residences include 2 mobile homes that are located within 300 feet of the centerline. Three large apartment buildings located between 101 to 150 feet.
N				2			4			26	4	1	66	4	1	98	8	2	Residences include 32 mobile homes that are located within 300 feet of the centerline.
M																0	0	0	
K																0	0	0	
J																0	0	0	
H				1									4			5	0	0	
G				1						2			8			11	0	0	
E							1			3			2			6	0	0	
D							2			2			5			9	0	0	
A							3			1			4			8	0	0	
Totals	**0**	**0**	**0**	**4**	**0**	**0**	**11**	**0**	**0**	**55**	**4**	**1**	**115**	**4**	**1**	**185**	**8**	**2**	
Totals (with P-East)	**0**	**0**	**0**	**4**	**0**	**0**	**14**	**4**	**2**	**46**	**125**	**4**	**108**	**20**	**5**	**172**	**149**	**11**	

Shaded cells have embedded formulas and will calculate the appropriate values. These cells are protected.

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Table 3 - Distances of Residential Buildings from ROW Centerline

Where there are zero buildings, leave the cell blank.

SOUTHERN ROUTE

Segment ID	0 - 25 feet			26 - 50 feet			51 - 100 feet			101 - 150 feet			151 - 300 feet			Total Homes	Total Apartment Units	Total Apartment Buildings	Comments
	Homes	Apartments		Homes	Apartments		Homes	Apartments		Homes	Apartments		Homes	Apartments					
		Units	Buildings		Units	Buildings		Units	Buildings		Units	Buildings		Units	Buildings				
O							8	26	13	20	16	8	123	96	38	151	138	59	
M																0	0	0	
L													4			4	0	0	
J																0	0	0	
I							2			3			20			25	0	0	
G				1						2			8			11	0	0	
F							2			3			3			8	0	0	
C							1			4			12			17	0	0	
B							1			1			8			10	0	0	
B-North										2			10			12	0	0	
Totals	**0**	**0**	**0**	**1**	**0**	**0**	**14**	**26**	**13**	**33**	**16**	**8**	**178**	**96**	**38**	**226**	**138**	**59**	
Totals (with B-North)	**0**	**0**	**0**	**1**	**0**	**0**	**13**	**26**	**13**	**34**	**16**	**8**	**180**	**96**	**38**	**228**	**138**	**59**	

Shaded cells have embedded formulas and will calculate the appropriate values. These cells are protected.

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Table 4 - Distances of Schools, Daycare Centers, and Hospitals from ROW Centerline

Where there are zero buildings, leave the cell blank.

NORTHERN ROUTE

Segment ID	0 - 25 feet			26 - 50 feet			51 - 100 feet			101 - 150 feet			151 - 300 feet			Total Schools	Total Daycare Centers	Total Hospitals	Comments
	Schools	Daycares	Hospitals	Schools	Daycares	Hospitals	Schools	Daycares	Hospitals	Schools	Daycares	Hospitals	Schools	Daycares	Hospitals				
P																0	0	0	
P-East													1	1		1	1	0	Prairie View Elementary School and registered daycare located within the same building within 300 feet of the centerline.
N										1						1	0	0	This is an Amish Schoolhouse on Skutley Road.
M																0	0	0	
K																0	0	0	
J																0	0	0	
H																0	0	0	
G																0	0	0	
E																0	0	0	
D																0	0	0	
A																0	0	0	
Totals	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	
Totals (with P-East)	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	2	1	0	

Shaded cells have embedded formulas and will calculate the appropriate values. These cells are protected.

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Table 4 - Distances of Schools, Daycare Centers, and Hospitals from ROW Centerline

Where there are zero buildings, leave the cell blank.

SOUTHERN ROUTE

Segment ID	0 - 25 feet			26 - 50 feet			51 - 100 feet			101 - 150 feet			151 - 300 feet			Total Schools	Total Daycare Centers	Total Hospitals	Comments
	Schools	Daycares	Hospitals	Schools	Daycares	Hospitals	Schools	Daycares	Hospitals	Schools	Daycares	Hospitals	Schools	Daycares	Hospitals				
O											1			1		0	2	0	
M																0	0	0	
L																0	0	0	
J																0	0	0	
I																0	0	0	
G																0	0	0	
F																0	0	0	
C																0	0	0	
B																0	0	0	
B-North																0	0	0	
Totals	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**1**	**0**	**0**	**2**	**0**	
Totals (with B-North)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**1**	**0**	**0**	**2**	**0**	

Shaded cells have embedded formulas and will calculate the appropriate values. These cells are protected.

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Table 5 - Land Cover

NORTHERN ROUTE

Segment ID	Segment Length (ft)	ROW Width (ft)		Agricultural Land Use								Undeveloped Lands												Developed/ Urban[1]		COMMENTS
				Crop Land		Pasture		Old Field		Specialty Agriculture[2]		Prairie/ Grassland		Non-Forested Wetland		Forested Wetland				Upland Woodland						
		New	Shared	Existing ROW Area Shared (acres)	New ROW Area (acres)	Existing ROW Area Shared (acres)	New ROW Area (acres)	Existing ROW Area Shared (acres)	New ROW Area (acres)	Existing ROW Area Shared (acres)	New ROW Area (acres)	Existing ROW Area Shared (acres)	New ROW Area (acres)	Existing ROW Area Shared (acres)	New ROW Area (acres)	Existing ROW Area Shared (acres)	Existing Shared ROW Area Not Cleared (acres)	Existing Shared ROW Area Already Cleared (acres)	New ROW Area (acres)	Existing ROW Area Shared (acres)	Existing Shared ROW Area Not Cleared (acres)	Existing Shared ROW Area Already Cleared (acres)	New ROW Area (acres)	Existing ROW Area Shared (acres)	New ROW Area (acres)	
P																										
P0	803	120	0	0.00	2.07	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	0.00	0.00	0.00	
P1	4,434	40	80	7.73	3.83	0.00	0.00	0.00	0.00	0.00	0.00	0.39	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	
P2	2,897	120	0	0.16	5.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37	1.02	0.01	
P3	2,973	62	58	0.51	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.88	1.24	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.13	0.00	0.90	2.41	0.00	
P4	2,464	120	0	0.01	5.55	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	0.04	0.00	1.19	
P5	5,406	40	80	2.60	1.44	0.00	0.00	0.00	0.00	0.00	0.00	6.09	2.03	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.21	0.05	0.06	2.17	0.23	
P6	1,825	62	58	0.18	1.65	0.00	0.00	0.00	0.00	0.00	0.00	1.43	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.54	0.00	0.22	0.30	0.34	
P7	1,824	120	0	0.00	3.16	0.00	0.00	0.00	0.00	0.00	0.00	0.31	1.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
P8	756	9	111	0.03	0.09	0.00	0.00	0.00	0.00	0.00	0.00	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.35	0.00	0.06	0.18	0.00	
P9	23,071	41	79	0.48	7.15	0.13	0.10	0.00	0.00	0.00	0.00	26.10	3.12	0.00	0.00	0.39	0.39	0.00	1.01	5.22	5.22	0.00	8.54	9.23	0.82	1.2 acres open water
P10	4,058	120	0	0.68	4.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.09	0.00	4.85	0.42	0.45	
TOTAL P	50,511	---	---	12.38	36.59	0.13	0.10	0.00	0.00	0.00	0.00	36.56	10.02	0.00	0.00	0.39	0.39	0.00	1.01	6.59	6.54	0.05	15.04	15.80	3.04	
P-East																										
O0a	1,376	120	0	0.01	3.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	
P11	1,631	120	0	0.17	2.17	0.00	0.00	0.00	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00	
P12	6,371	16	84	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	8.39	0.66	0.00	0.00	0.00	0.00	0.00	0.00	2.48	2.48	0.00	1.16	1.43	0.37	
P13	2,692	100	0	0.00	3.82	0.00	0.00	0.00	0.00	0.00	0.00	0.17	1.55	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.00	0.29	0.00	0.15	
P14	7,884	28	92	0.00	0.97	0.00	0.00	0.00	0.00	0.00	0.00	13.26	1.76	0.00	0.00	0.00	0.00	0.00	0.00	1.64	1.64	0.00	1.22	1.56	1.03	
P9	23,071	41	79	0.48	7.15	0.13	0.10	0.00	0.00	0.00	0.00	26.10	3.12	0.00	0.00	0.39	0.39	0.00	1.01	5.22	5.22	0.00	8.54	9.23	0.82	1.2 acres open water
P10	4,058	120	0	0.68	4.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.09	0.00	4.85	0.42	0.45	
Total P-East	47,083	---	---	1.34	22.37	0.13	0.10	0.00	0.00	0.00	0.00	48.69	7.23	0.00	0.00	0.39	0.39	0.00	1.01	9.64	9.64	0.00	16.41	13.14	2.82	
N																										
N1	17,942	20	100	18.26	5.80	0.91	0.29	0.00	0.00	0.00	0.00	2.33	2.73	0.91	0.19	0.00	0.00	0.00	0.00	17.59	1.89	15.70	15.19	0.20	0.09	
N2	7,902	89	100	4.28	2.37	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.43	0.64	0.29	0.01	0.01	0.00	0.07	12.69	0.41	12.28	12.70	0.82	0.00	
N3a	58,224	20	100	40.35	13.13	6.79	1.24	0.00	0.00	0.00	0.00	15.67	2.96	6.00	1.51	3.41	0.12	3.29	0.63	54.94	3.43	51.51	15.53	2.26	0.43	0.1 acres open water
N3b	94,913	0	120	77.37	3.18	13.42	3.02	0.00	0.00	3.60	0.00	17.45	0.24	37.09	0.45	10.14	2.29	7.85	0.07	94.33	20.54	73.79	3.08	2.89	0.09	1.4 acres open water; tree farm (specialty ag) located in this sub-segment
N4	3,656	0	120	8.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.10	0.10	0.00	0.00	0.23	0.00	
N5	9,131	0	120	4.87	1.23	0.00	0.00	0.00	0.00	0.00	0.00	1.98	1.35	0.00	0.46	0.13	0.02	0.11	0.01	12.86	2.57	10.29	0.72	1.40	0.14	
N6	112,466	20	80	0.01	0.25	0.00	0.00	0.00	0.00	0.00	0.00	112.88	11.88	9.89	13.53	3.31	3.31	0.00	6.52	20.91	20.91	0.00	18.56	59.18	0.35	0.9 acres open water
N7	38,985	18	102	0.06	6.47	0.06	0.01	0.00	0.00	0.00	0.00	59.55	2.76	2.59	2.01	1.93	1.93	0.00	3.32	12.95	12.95	0.00	1.64	13.31	0.00	
N8	4,286	19	81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.38	0.48	0.99	0.07	0.00	0.00	0.00	0.00	0.20	0.20	0.00	0.07	1.43	1.25	
N9	48,159	41	79	0.00	0.89	0.00	0.01	0.00	0.00	0.00	1.36	43.70	9.09	22.27	24.87	1.23	1.23	0.00	6.18	0.77	0.77	0.00	1.48	19.05	1.47	tree farm (specialty ag) located in this sub-segment, 0.3 acres open water
N10	5,859	100	0	0.00	4.34	0.00	0.00	0.00	0.00	0.00	0.00	0.91	0.51	0.57	3.93	0.04	0.04	0.00	0.55	0.01	0.01	0.00	2.21	0.42	0.00	
N11	7,700	95	25	0.03	6.99	0.00	0.00	0.00	0.00	0.00	0.00	1.20	2.06	0.00	1.19	0.00	0.00	0.00	0.00	0.59	0.59	0.00	6.33	2.68	0.13	
N12	10,336	120	0	0.02	19.59	0.00	0.26	0.00	0.00	0.00	0.00	0.05	0.12	0.00	1.97	0.00	0.00	0.00	0.33	0.00	0.00	0.00	5.55	0.14	0.44	
N13	5,252	150	0	0.00	0.64	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03	0.00	17.30	0.08	0.00	
N14	11,574	120	0	0.00	9.96	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.02	0.66	7.39	0.15	0.15	0.00	8.23	0.00	0.00	0.00	4.48	0.49	0.04	0.4 acres open water
N15	15,648	62	58	0.01	2.32	0.00	1.19	0.00	0.00	0.00	0.00	9.80	1.93	4.07	7.55	0.15	0.15	0.00	4.35	0.86	0.86	0.00	4.77	6.03	0.00	0.1 acres open water
N16	6,343	31	119	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.82	0.53	2.86	0.59	4.18	4.18	0.00	1.97	0.01	0.01	0.00	0.44	1.38	0.00	3 acres open water
N17	30,648	40	80	0.14	4.97	0.15	0.29	0.00	0.00	0.00	0.00	26.41	6.42	9.72	6.16	1.27	1.27	0.00	5.92	5.04	5.04	0.00	4.10	13.72	0.00	
N18	3,860	3	97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.88	0.01	2.08	0.09	0.06	0.06	0.00	0.00	0.20	0.20	0.00	0.00	1.96	0.15	
N19	4,143	34	86	0.13	0.95	0.00	0.00	0.00	0.00	0.00	0.00	5.20	0.08	0.58	1.53	0.00	0.00	0.00	0.10	0.64	0.64	0.00	0.44	1.60	0.13	
N20	820	8	112	0.00	0.00	0.00	0.00	0.25	0.03	0.00	0.00	1.48	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.07	
N21	28,181	53	67	0.01	7.37	0.00	0.00	0.02	0.27	0.00	0.00	20.41	4.28	3.29	6.02	3.49	3.49	0.00	10.79	6.14	6.14	0.00	5.14	9.65	0.00	0.8 acres open water
N22	3,635	33	87	0.00	1.78	0.00	0.00	0.00	0.00	0.09	0.00	3.40	0.52	0.03	0.00	0.00	0.00	0.00	0.00	1.60	1.60	0.00	0.41	2.09	0.00	tree farm (specialty ag) located in this sub-segment
N23	14,809	60	60	4.03	4.00	0.81	0.81	0.00	0.00	2.16	1.78	1.63	1.39	3.54	3.18	1.34	0.00	1.34	1.21	7.28	0.65	6.63	7.51	0.11	0.00	tree farm (specialty ag) located in this sub-segment
TOTAL N	544,472	---	---	158.08	96.24	22.14	7.13	0.27	0.29	5.84	3.14	341.49	49.88	107.98	82.97	30.84	18.25	12.59	50.24	249.74	79.54	170.20	127.64	141.47	4.78	
M																										
M1	17,241	60	60	0.94	0.50	0.00	0.00	0.00	0.00	0.00	0.00	3.61	1.60	4.67	4.85	7.81	0.16	7.65	8.72	5.75	0.56	5.19	7.45	1.18	0.41	
TOTAL M	17,241	---	---	0.94	0.50	0.00	0.00	0.00	0.00	0.00	0.00	3.61	1.60	4.67	4.85	7.81	0.16	7.65	8.72	5.75	0.56	5.19	7.45	1.18	0.41	

DOCKET NO. 5-CE-142

Table 5 - Land Cover

NORTHERN ROUTE

Segment ID	Segment Length (ft)	ROW Width (ft)		Agricultural Land Use								Undeveloped Lands												Developed/ Urban[1]		COMMENTS
				Crop Land		Pasture		Old Field		Specialty Agriculture[2]		Prairie/ Grassland		Non-Forested Wetland		Forested Wetland				Upland Woodland						
		New	Shared	Existing ROW Area Shared (acres)	New ROW Area (acres)	Existing ROW Area Shared (acres)	New ROW Area (acres)	Existing ROW Area Shared (acres)	New ROW Area (acres)	Existing ROW Area Shared (acres)	New ROW Area (acres)	Existing ROW Area Shared (acres)	New ROW Area (acres)	Existing ROW Area Shared (acres)	New ROW Area (acres)	Existing ROW Area Shared (acres)	Existing Shared ROW Area Not Cleared (acres)	Existing Shared ROW Area Already Cleared (acres)	New ROW Area (acres)	Existing ROW Area Shared (acres)	Existing Shared ROW Area Not Cleared (acres)	Existing Shared ROW Area Already Cleared (acres)	New ROW Area (acres)	Existing ROW Area Shared (acres)	New ROW Area (acres)	
K																										

DOCKET NO. 5-CE-142

Table 5 - Land Cover

NORTHERN ROUTE

Segment ID	Segment Length (ft)	ROW Width (ft)		Agricultural Land Use								Undeveloped Lands												Developed/ Urban[1]		COMMENTS
				Crop Land		Pasture		Old Field		Specialty Agriculture[2]		Prairie/ Grassland		Non-Forested Wetland		Forested Wetland				Upland Woodland						
		New	Shared	Existing ROW Area Shared (acres)	New ROW Area (acres)	Existing ROW Area Shared (acres)	New ROW Area (acres)	Existing ROW Area Shared (acres)	New ROW Area (acres)	Existing ROW Area Shared (acres)	New ROW Area (acres)	Existing ROW Area Shared (acres)	New ROW Area (acres)	Existing ROW Area Shared (acres)	New ROW Area (acres)	Existing ROW Area Shared (acres)	Existing Shared ROW Area Not Cleared (acres)	Existing Shared ROW Area Already Cleared (acres)	New ROW Area (acres)	Existing ROW Area Shared (acres)	Existing Shared ROW Area Not Cleared (acres)	Existing Shared ROW Area Already Cleared (acres)	New ROW Area (acres)	Existing ROW Area Shared (acres)	New ROW Area (acres)	
K1	22,187	48	72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.64	2.96	2.61	1.03	1.05	1.05	0.00	2.81	10.00	10.00	0.00	17.54	7.24	0.00	0.2 acres open water
TOTAL K	22,187	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.64	2.96	2.61	1.03	1.05	1.05	0.00	2.81	10.00	10.00	0.00	17.54	7.24	0.00	
J																										
J1	12,049	62	58	0.00	3.72	0.00	0.00	0.00	0.00	0.00	0.00	6.62	2.01	0.46	0.15	0.00	0.00	0.00	0.00	9.61	9.61	0.00	11.70	0.88	0.93	
TOTAL J	12,049	---	---	0.00	3.72	0.00	0.00	0.00	0.00	0.00	0.00	6.62	2.01	0.46	0.15	0.00	0.00	0.00	0.00	9.61	9.61	0.00	11.70	0.88	0.93	
H																										
H1	18,866	73	47	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00	10.24	7.02	0.41	0.91	0.00	0.00	0.00	0.00	7.26	7.25	0.01	20.82	2.35	2.08	0.6 acres open water
H2	4,292	27	73	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	4.90	1.29	0.00	0.00	0.00	0.00	0.00	0.00	1.71	1.71	0.00	0.96	0.62	0.25	
H3	4,999	86	34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.07	0.79	0.00	0.00	0.00	0.00	0.00	0.00	2.79	2.79	0.00	9.06	0.05	0.00	
H4	5,210	120	0	0.00	5.09	0.00	0.00	0.00	0.00	0.00	0.00	0.79	2.83	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.00	5.12	0.55	0.00	
H5	48,717	88	32	0.12	49.51	0.00	0.00	0.00	0.00	0.00	0.00	24.76	9.54	2.30	10.78	1.19	1.19	0.00	8.08	6.44	6.44	0.00	18.70	0.60	1.76	
H6	1,462	45	55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.07	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.80	0.80	0.00	1.40	0.00	0.00	
H7	27,928	86	34	0.10	2.29	0.01	2.23	0.00	0.41	0.00	0.00	15.37	8.87	3.04	22.49	0.68	0.68	0.00	10.10	1.83	1.83	0.00	5.29	1.09	2.50	0.6 acres open water
H8	2,719	27	93	0.60	0.23	0.00	0.00	0.00	0.00	0.00	0.00	3.40	0.91	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.22	1.79	0.33	
H9	1,847	23	97	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	2.81	0.63	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.23	0.24	
TOTAL H	116,040	---	---	0.82	57.18	0.01	2.65	0.00	0.41	0.00	0.00	64.40	31.99	5.80	34.23	1.87	1.87	0.00	18.18	20.89	20.88	0.01	61.57	8.28	7.17	
G																										
G1	9,705	48	72	0.00	6.37	0.00	0.00	0.00	0.00	0.00	0.00	14.09	3.81	0.00	0.00	0.03	0.03	0.00	0.23	0.01	0.01	0.00	0.24	1.97	0.00	
G2	7,940	131	62	0.00	5.79	0.00	0.00	0.00	0.00	0.00	0.00	5.65	1.09	0.08	1.19	0.57	0.57	0.00	5.13	3.63	3.63	0.00	3.74	1.46	0.86	6.4 acres open water
G3	4,735	50	70	0.02	2.29	0.00	0.00	0.00	0.00	0.00	0.00	6.68	0.51	0.52	2.05	0.00	0.00	0.00	0.00	0.10	0.10	0.00	0.60	0.29	0.00	
TOTAL G	22,380	---	---	0.02	14.44	0.00	0.00	0.00	0.00	0.00	0.00	26.42	5.41	0.60	3.24	0.59	0.59	0.00	5.36	3.74	3.74	0.00	4.58	3.72	0.86	
E																										
E1	56,489	54	66	0.48	38.12	0.11	2.84	0.00	0.00	0.00	0.00	69.98	13.16	3.19	5.61	0.27	0.27	0.00	3.38	4.43	4.43	0.00	6.07	6.63	1.28	0.1 acres open water
E2	12,302	120	0	0.00	30.97	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.05	0.37	1.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.79	0.05	
E0	285	120	0	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	0.00	0.00	0.00	0.00	0.79	
TOTAL E	69,076	---	---	0.48	69.09	0.11	2.84	0.00	0.00	0.00	0.00	70.39	13.21	3.56	6.83	0.27	0.27	0.00	3.38	4.43	4.43	0.00	6.07	7.42	2.12	
D																										
D0	1,705	120	0	0.15	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.91	2.48	
D1	69,131	20	100	114.40	28.50	3.03	0.39	3.03	0.53	0.00	0.00	25.61	1.59	1.55	0.56	0.00	0.00	0.00	0.00	4.14	0.94	3.20	1.45	4.47	1.12	
D2	10,008	120	0	0.10	25.57	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.46	
TOTAL D	80,844	---	---	114.65	54.12	3.03	0.39	3.03	0.53	0.00	0.00	25.76	2.76	1.55	0.56	0.00	0.00	0.00	0.00	4.14	0.94	3.20	1.45	6.53	4.06	
A																										
A1	4,045	120	0	0.00	10.66	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	
A2	1,299	81	39	0.00	1.92	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.75	0.00	
A3	2,613	20	100	5.77	1.21	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
A4	5,279	120	0	0.04	12.74	0.06	0.33	0.00	0.88	0.00	0.00	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.09	0.00	
A5	2,730	19	101	1.68	0.59	0.03	0.00	0.00	0.00	0.00	0.00	1.53	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.35	0.00	0.08	2.75	0.22	
A6a	1,767	20	100	1.70	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.88	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.26	0.27	0.49	0.09	0.51	
A6b	3,500	20	100	2.04	0.70	0.00	0.00	0.00	0.00	0.55	0.15	3.48	0.14	0.98	0.17	0.01	0.01	0.00	0.01	0.58	0.47	0.11	0.33	0.43	0.07	tree farm (specialty ag) located in this sub-segment
A7	1,650	100	20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.80	3.49	0.07	0.07	0.00	0.12	0.00	0.00	0.00	0.00	0.05	0.00	
A8	437	120	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.44	0.09	0.09	0.00	0.60	0.00	0.00	0.00	0.00	0.00	0.00	
A0	1,010	120	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.05	0.03	0.21	0.02	0.02	0.00	0.03	0.00	0.00	0.00	0.78	0.33	1.04	
TOTAL A	24,330	---	---	11.23	28.36	0.08	0.33	0.00	0.88	0.55	0.15	6.87	1.45	1.88	4.31	0.19	0.19	0.00	0.76	1.46	1.08	0.38	2.04	4.59	1.84	
Total[3]	**959,130**			**298.6**	**360.2**	**25.5**	**13.4**	**3.3**	**2.1**	**6.4**	**3.3**	**597.8**	**121.3**	**129.1**	**138.2**	**43.0**	**22.8**	**20.2**	**90.5**	**316.3**	**137.3**	**179.0**	**255.1**	**197.1**	**25.2**	
Total with P-East[3]	**955,702**			**287.6**	**346.0**	**25.5**	**13.4**	**3.3**	**2.1**	**6.4**	**3.3**	**609.9**	**118.5**	**129.1**	**138.2**	**43.0**	**22.8**	**20.2**	**90.5**	**319.4**	**140.4**	**179.0**	**256.4**	**194.4**	**25.0**	

[1] Developed/urban includes residential, commerical, and other developed lands. This category also includes paved/gravel roads and railroads.

[2] Agriculture Specialty includes items such as cranberry bogs, vineyards, ginseng, orchards, tree farms and other specialty crops. The specialty crop identified for a given sub-segment is identified in the "Comments" column

[3] The acreages included in this table are calculated from the total ROW required (new ROW and existing ROW) for the project. These areas may slightly differ from those in Table 2 (General Route Impacts) because of the varied ROW requirements along some sub-segments. Perpendicular crossings of roads, railroads, or other ROW are included in the existing ROW category.

DOCKET NO. 5-CE-142

Table 5 - Land Cover

SOUTHERN ROUTE

Segment ID	Segment Length (ft)	ROW Width (ft)		Agricultural Land Use								Undeveloped Lands												Developed/ Urban[1]		COMMENTS
				Crop Land		Pasture		Old Field		Specialty Agriculture[2]		Prairie/ Grassland		Non-Forested Wetland		Forested Wetland				Upland Woodland						
		New	Shared	Existing ROW Area Shared (acres)	New ROW Area (acres)	Existing ROW Area Shared (acres)	New ROW Area (acres)	Existing ROW Area Shared (acres)	New ROW Area (acres)	Existing ROW Area Shared (acres)	New ROW Area (acres)	Existing ROW Area Shared (acres)	New ROW Area (acres)	Existing ROW Area Shared (acres)	New ROW Area (acres)	Existing ROW Area Shared (acres)	Existing Shared ROW Area Not Cleared (acres)	Existing Shared ROW Area Already Cleared (acres)	New ROW Area (acres)	Existing ROW Area Shared (acres)	Existing Shared ROW Area Not Cleared (acres)	Existing Shared ROW Area Already Cleared (acres)	New ROW Area (acres)	Existing ROW Area Shared (acres)	New ROW Area (acres)	
O																										
O0a	1,376	120	0	0.01	3.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	
O0	1,383	120	0	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.71	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03	0.00	0.09	0.12	1.11	
O1	2,030	0	120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.04	2.04	0.00	0.00	1.16	0.00	
O2	5,102	1	119	2.22	0.03	0.00	0.00	0.00	0.00	0.00	0.00	9.73	0.04	0.00	0.00	0.00	0.00	0.00	0.00	1.17	1.17	0.00	0.00	0.87	0.00	
O3	6,258	18	102	0.05	1.15	0.00	0.00	0.00	0.00	0.00	0.00	12.07	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.00	0.00	1.70	1.36	
O4	13,633	6	114	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	28.91	0.23	0.14	0.00	0.00	0.00	0.00	0.00	0.59	0.59	0.00	0.46	5.89	1.29	
O5	3,326	0	120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.35	0.00	
O6	92,686	28	92	1.09	21.28	0.35	4.05	0.00	0.00	0.00	0.00	131.52	15.96	4.87	7.71	1.86	1.86	0.00	4.47	13.05	13.05	0.00	3.63	42.14	2.55	0.8 acres open water
O7a	2,467	120	0	0.09	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1.75	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.00	1.45	0.06	0.00	
O7b	2,062	86	34	0.01	2.21	0.00	0.00	0.00	0.00	0.00	0.00	0.42	0.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	1.11	
O7c	1,381	95	25	0.01	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.26	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.69	0.05	
O7d	20,726	120	0	0.14	43.65	0.00	2.76	0.00	0.00	0.00	0.00	0.84	0.78	0.00	0.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.78	1.20	0.01	0.2 acres open water
O8	13,052	70	50	9.06	16.55	0.36	0.40	0.00	0.00	0.00	0.00	2.16	1.58	1.35	1.55	0.00	0.00	0.00	0.00	1.06	0.00	1.06	0.30	0.80	0.65	0.1 acres open water
O9	5,560	56	64	1.06	1.86	0.00	0.00	0.00	0.00	0.00	0.00	0.65	0.22	5.35	4.89	0.08	0.00	0.08	0.08	0.00	0.00	0.00	0.13	0.97	0.01	
O10a	20,296	20	100	3.61	8.67	3.20	2.70	0.00	0.00	0.00	0.00	2.83	2.53	0.87	4.23	0.16	0.00	0.16	0.23	9.66	0.84	8.82	16.18	0.68	0.36	
O10b	12,508	70	50	6.79	16.07	1.32	1.55	0.00	0.00	0.00	0.00	2.99	0.91	0.00	0.00	0.00	0.00	0.00	0.00	0.87	0.06	0.81	1.32	2.42	0.22	
O11a	3,381	120	0	0.39	4.99	0.37	2.25	0.00	0.00	0.00	0.00	0.74	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.06	
O11b	7,626	80	40	3.34	11.90	1.40	1.86	0.00	0.00	0.00	0.00	0.94	0.45	0.08	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.73	0.00	
O12	1,240	40	80	1.80	0.91	0.40	0.21	0.00	0.00	0.00	0.00	0.07	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
O13	15,027	150	0	0.19	31.59	0.00	5.24	0.00	0.00	0.00	0.00	0.73	2.24	0.00	0.22	0.00	0.00	0.00	0.41	0.01	0.01	0.00	9.69	0.60	0.83	
O14	26,098	202	0	0.05	19.31	0.02	4.47	0.00	0.00	0.00	0.00	0.47	5.81	0.13	5.24	0.00	0.00	0.00	2.44	0.03	0.03	0.00	83.47	0.91	0.33	
O15	42,799	150	0	0.07	59.26	0.03	9.90	0.00	1.25	0.00	0.00	1.35	10.39	0.19	9.50	0.00	0.00	0.00	1.00	0.46	0.46	0.00	61.00	1.91	0.14	0.1 acres open water
O16	6,800	99	51	0.31	10.56	0.09	0.11	0.00	0.00	0.00	0.00	3.47	3.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.78	3.81	0.31	
O17	2,726	49	80	1.83	2.61	0.01	0.14	0.00	0.00	0.00	0.00	2.52	0.55	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.01	0.29	0.12	0.36	0.04	
O18	3,993	273	0	0.02	10.80	0.00	0.83	0.00	0.00	0.00	0.00	0.18	1.07	0.00	1.60	0.00	0.00	0.00	0.00	0.07	0.07	0.00	10.29	0.19	0.00	
O19	50,783	120	0	0.08	41.53	0.00	7.15	0.00	0.00	0.00	0.27	0.37	14.68	0.37	8.38	0.14	0.14	0.00	2.71	0.73	0.73	0.00	61.73	1.44	0.92	tree farm (specialty ag) located in this sub-segment
O20	4,077	138	20	0.00	0.00	0.02	0.06	0.00	0.00	0.00	0.00	0.05	0.34	0.00	0.00	0.00	0.00	0.00	0.00	1.80	1.73	0.07	12.72	0.00	0.00	
O21	2,893	120	0	0.00	2.94	0.06	3.76	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	0.33	0.06	0.82	
O22	20,921	40	80	7.56	6.12	0.00	0.00	0.00	0.00	0.00	0.00	8.62	3.13	2.67	0.61	0.82	0.21	0.60	0.25	16.89	0.62	16.28	10.17	0.72	0.06	
O23	4,251	36	84	2.37	1.74	1.15	0.87	0.00	0.00	0.00	0.00	0.99	0.19	1.43	0.51	0.02	0.02	0.00	0.04	0.11	0.02	0.09	0.12	2.14	0.04	
O24	13,165	40	80	10.32	6.17	0.02	0.03	0.00	0.00	0.00	0.00	0.61	0.10	4.85	2.54	0.00	0.00	0.00	0.00	7.13	0.00	7.13	4.03	0.44	0.01	
O25	7,013	69	51	0.45	6.97	0.00	0.00	0.00	0.00	0.00	0.00	1.08	0.50	1.13	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.50	0.78	
O26	12,341	83	37	0.09	17.97	0.00	0.00	0.00	0.00	0.00	0.00	2.73	1.66	0.57	3.41	0.00	0.00	0.00	0.39	0.00	0.00	0.00	0.00	7.17	0.00	
O27	21,959	120	0	0.22	22.01	0.00	2.21	0.00	0.00	0.00	1.04	0.67	0.90	0.00	20.27	0.00	0.00	0.00	5.67	0.06	0.06	0.00	6.45	0.48	0.52	tree farm (specialty ag) located in this sub-segment
TOTAL O	450,939	---	---	53.24	378.39	8.79	50.53	0.00	1.25	0.00	1.31	228.78	72.35	23.99	74.61	3.08	2.24	0.84	17.69	56.98	22.43	34.55	291.61	87.89	13.58	
M																										
M1	17,241	60	60	0.94	0.50	0.00	0.00	0.00	0.00	0.00	0.00	3.61	1.60	4.67	4.85	7.81	0.16	7.65	8.72	5.75	0.56	5.19	7.45	1.18	0.41	
TOTAL M	17,241	---	---	0.94	0.50	0.00	0.00	0.00	0.00	0.00	0.00	3.61	1.60	4.67	4.85	7.81	0.16	7.65	8.72	5.75	0.56	5.19	7.45	1.18	0.41	
L																										
L1	2,613	42	78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.38	0.44	0.27	0.26	0.00	0.00	0.00	0.00	0.22	0.22	0.00	1.62	0.81	0.22	
L2	19,989	71	49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.64	1.34	0.60	0.42	0.14	0.14	0.00	1.28	8.80	8.80	0.00	29.35	3.40	0.09	
TOTAL L	22,602	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.02	1.78	0.87	0.68	0.14	0.14	0.00	1.28	9.02	9.02	0.00	30.97	4.21	0.31	
J																										
J1	12,049	62	58	0.00	3.72	0.00	0.00	0.00	0.00	0.00	0.00	6.62	2.01	0.46	0.15	0.00	0.00	0.00	0.00	9.61	9.61	0.00	11.70	0.88	0.93	
TOTAL J	12,049	---	---	0.00	3.72	0.00	0.00	0.00	0.00	0.00	0.00	6.62	2.01	0.46	0.15	0.00	0.00	0.00	0.00	9.61	9.61	0.00	11.70	0.88	0.93	
I																										
I1	2,212	88	32	0.00	0.64	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1.39	0.00	0.00	0.05	0.00	0.05	0.00	0.00	0.00	0.00	0.29	1.46	2.17	
I2	1,174	60	60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.03	0.16	0.12	0.00	0.00	0.00	0.00	0.71	0.17	0.54	0.62	0.88	0.48	
I3	4,008	120	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.00	2.23	3.14	3.06	1.6 acres open water
I4	1,681	45	75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.13	0.54	0.59	1.21	1.80	0.46	
I5	38,323	19	101	4.57	2.24	0.00	0.00	0.00	0.00	0.00	0.00	29.58	3.00	20.41	2.71	0.87	0.87	0.00	1.74	20.02	2.97	17.05	6.98	12.89	0.03	0.5 acres open water

DOCKET NO. 5-CE-142

Table 5 - Land Cover

SOUTHERN ROUTE

Segment ID	Segment Length (ft)	ROW Width (ft)		Agricultural Land Use								Undeveloped Lands												Developed/ Urban[1]		COMMENTS
				Crop Land		Pasture		Old Field		Specialty Agriculture[2]		Prairie/ Grassland		Non-Forested Wetland		Forested Wetland				Upland Woodland						
		New	Shared	Existing ROW Area Shared (acres)	New ROW Area (acres)	Existing ROW Area Shared (acres)	New ROW Area (acres)	Existing ROW Area Shared (acres)	New ROW Area (acres)	Existing ROW Area Shared (acres)	New ROW Area (acres)	Existing ROW Area Shared (acres)	New ROW Area (acres)	Existing ROW Area Shared (acres)	New ROW Area (acres)	Existing ROW Area Shared (acres)	Existing Shared ROW Area Not Cleared (acres)	Existing Shared ROW Area Already Cleared (acres)	New ROW Area (acres)	Existing ROW Area Shared (acres)	Existing Shared ROW Area Not Cleared (acres)	Existing Shared ROW Area Already Cleared (acres)	New ROW Area (acres)	Existing ROW Area Shared (acres)	New ROW Area (acres)	
I6	5,643	82	38	0.03	1.50	0.00	2.75	0.05	1.60	0.00	0.00	2.22	1.85	0.00	0.31	0.00	0.00	0.00	0.27	0.00	0.00	0.00	1.99	2.69	0.29	
I7	1,670	120	0	0.10	3.88	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.07	0.33	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	
I8	23,186	24	96	2.64	1.82	0.00	0.00	0.00	0.00	0.00	0.00	15.18	0.94	26.09	6.18	0.24	0.24	0.00	1.87	0.76	0.76	0.00	1.97	6.01	0.16	
I9	2,645	120	0	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.44	4.05	0.20	0.13	0.00	0.00	0.00	0.00	0.02	0.02	0.00	0.09	0.07	2.27	
I10	1,761	62	58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.71	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	1.22	0.62	0.57	
I11	3,936	77	43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.76	2.85	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.13	0.00	4.12	0.98	0.00	
I12	4,486	120	0	0.10	4.02	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.20	0.00	5.39	0.00	0.00	0.00	0.00	0.16	0.16	0.00	1.45	0.63	0.00	
I13	25,085	68	52	0.47	3.09	0.00	0.45	0.00	0.00	0.00	0.00	14.84	5.15	6.93	13.20	1.49	1.49	0.00	10.45	0.22	0.03	0.19	2.91	6.74	0.03	5.5 acres open water
TOTAL I	115,810	---	---	7.91	17.19	0.00	3.21	0.05	1.60	0.00	0.00	67.74	20.94	54.11	28.18	2.65	2.59	0.05	14.33	23.20	4.83	18.37	25.06	37.90	9.52	
G																										
G1	9,705	48	72	0.00	6.37	0.00	0.00	0.00	0.00	0.00	0.00	14.09	3.81	0.00	0.00	0.03	0.03	0.00	0.23	0.01	0.01	0.00	0.24	1.97	0.00	
G2	7,940	131	62	0.00	5.79	0.00	0.00	0.00	0.00	0.00	0.00	5.65	1.09	0.08	1.19	0.57	0.57	0.00	5.13	3.63	3.63	0.00	3.74	1.46	0.86	6.4 acres open water
G3	4,735	50	70	0.02	2.29	0.00	0.00	0.00	0.00	0.00	0.00	6.68	0.51	0.52	2.05	0.00	0.00	0.00	0.00	0.10	0.10	0.00	0.60	0.29	0.00	
TOTAL G	22,380	---	---	0.02	14.44	0.00	0.00	0.00	0.00	0.00	0.00	26.42	5.41	0.60	3.24	0.59	0.59	0.00	5.36	3.74	3.74	0.00	4.58	3.72	0.86	
F																										
F1	20,611	120	0	0.00	13.74	0.00	4.32	0.00	0.00	0.00	0.00	1.01	2.33	0.00	4.48	0.00	0.00	0.00	6.17	0.12	0.12	0.00	23.53	0.83	0.26	
F2	1,831	100	20	0.00	0.05	0.00	0.06	0.00	0.00	0.00	0.00	0.19	0.81	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.40	0.00	2.97	0.56	0.00	
F3	46,072	120	0	0.06	85.86	0.00	1.61	0.00	0.00	0.00	0.00	0.92	9.09	0.00	2.06	0.00	0.00	0.00	0.67	0.17	0.17	0.00	29.00	0.90	0.48	
F4	7,663	69	51	0.95	9.95	0.00	0.00	0.00	0.00	0.00	0.00	3.55	0.28	0.58	1.72	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	3.86	0.04	
F5	2,354	120	0	0.01	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	1.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	
F0	576	120	0	0.00	0.15	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	0.00	0.00	1.42	
TOTAL F	79,107	---	---	1.02	114.85	0.00	5.98	0.00	0.00	0.00	0.00	5.68	12.51	0.58	9.54	0.00	0.00	0.00	6.98	0.69	0.69	0.00	55.51	6.15	2.28	
C																										
C0	1,705	120	0	0.18	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.90	2.48	
C1	1,344	67	53	0.11	1.68	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.13	0.00	0.00	1.00	0.00	
C2	4,005	120	0	0.00	5.88	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.49	3.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.82	0.45	
C3	7,008	25	95	5.53	3.46	0.00	0.00	0.00	0.00	0.00	0.00	3.70	0.00	0.47	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.55	0.32	
C4	7,934	70	50	0.87	11.93	0.00	0.00	0.00	0.00	0.00	0.00	5.01	0.60	0.02	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.12	0.07	
C5	24,731	120	0	0.09	56.79	0.00	0.61	0.00	0.00	0.00	0.00	0.47	0.14	0.06	6.84	0.00	0.00	0.00	0.44	0.00	0.00	0.00	0.89	0.50	1.23	
C6	11,972	20	100	21.31	5.23	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.20	3.97	1.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.07	
C7	2,630	120	0	0.17	7.06	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	0.00	0.00	0.00	
C8	9,180	77	43	0.02	12.41	0.00	0.00	0.00	0.00	0.00	0.00	3.76	0.56	0.46	3.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.91	0.00	
C9	12,102	120	0	0.10	26.28	0.00	0.00	0.00	0.00	0.00	0.00	0.34	1.08	0.00	2.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.42	0.56	0.00	
TOTAL C	82,611	---	---	28.39	130.78	0.00	0.61	0.00	0.00	0.00	0.00	14.52	2.96	5.46	17.55	0.00	0.00	0.00	0.44	0.13	0.13	0.00	3.31	18.60	4.62	
B																										
B1	6,723	120	0	0.16	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	1.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.39	0.07	0.08	
B2	4,038	73	47	0.10	2.66	0.00	0.00	0.00	0.00	0.00	0.00	2.25	1.54	0.26	1.66	0.00	0.00	0.00	0.00	0.02	0.02	0.00	0.15	1.76	0.72	
B3a	13,051	120	0	0.00	8.80	0.00	0.94	0.00	0.00	0.00	0.00	0.03	7.79	0.03	2.16	0.00	0.00	0.00	0.62	0.03	0.03	0.00	16.21	0.21	2.49	
B3b	4,357	120	0	0.00	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.33	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.25	0.08	0.51	
B4	7,236	70	50	4.15	6.21	0.00	0.00	0.72	0.80	0.00	0.00	0.38	0.52	0.94	1.24	0.00	0.00	0.00	0.00	2.01	0.00	2.01	2.94	0.01	0.01	
B5	2,746	58	62	0.01	0.62	0.00	0.00	0.00	0.00	0.00	0.00	1.59	0.06	0.82	1.30	0.04	0.04	0.00	1.66	0.00	0.00	0.00	0.00	1.46	0.00	
B0	1,010	120	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.02	0.21	0.01	0.01	0.00	0.05	0.00	0.00	0.00	0.78	0.33	1.04	
TOTAL B	39,161	---	---	4.42	31.99	0.00	0.94	0.72	0.80	0.00	0.00	4.30	10.28	2.08	8.03	0.05	0.05	0.00	2.33	2.07	0.06	2.01	34.71	3.92	4.85	
B-North																										
B1	6,723	120	0	0.16	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	1.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.39	0.07	0.08	
B2	4,038	73	47	0.10	2.66	0.00	0.00	0.00	0.00	0.00	0.00	2.25	1.54	0.26	1.66	0.00	0.00	0.00	0.00	0.02	0.02	0.00	0.15	1.76	0.72	
B3a	13,051	120	0	0.00	8.80	0.00	0.94	0.00	0.00	0.00	0.00	0.03	7.79	0.03	2.16	0.00	0.00	0.00	0.62	0.03	0.03	0.00	16.21	0.21	2.49	
B4a	7,946	120	0	0.09	9.63	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.10	0.00	11.17	0.10	0.25	
A6b	3,500	20	100	2.04	0.70	0.00	0.00	0.00	0.00	0.55	0.15	3.48	0.14	0.98	0.17	0.01	0.01	0.00	0.01	0.58	0.47	0.11	0.33	0.43	0.07	tree farm (specialty ag) located in this sub-segment
A7	1,650	100	20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.80	3.49	0.07	0.07	0.00	0.12	0.00	0.00	0.00	0.00	0.05	0.00	
A8	437	120	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.44	0.09	0.09	0.00	0.60	0.00	0.00	0.00	0.00	0.00	0.00	
A0	1,010	120	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.05	0.03	0.21	0.02	0.02	0.00	0.03	0.00	0.00	0.00	0.78	0.33	1.04	

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Table 5 - Land Cover

SOUTHERN ROUTE

Segment ID	Segment Length (ft)	ROW Width (ft)		Agricultural Land Use								Undeveloped Lands												Developed/ Urban[1]		COMMENTS
				Crop Land		Pasture		Old Field		Specialty Agriculture[2]		Prairie/ Grassland		Non-Forested Wetland		Forested Wetland				Upland Woodland						
		New	Shared	Existing ROW Area Shared (acres)	New ROW Area (acres)	Existing ROW Area Shared (acres)	New ROW Area (acres)	Existing ROW Area Shared (acres)	New ROW Area (acres)	Existing ROW Area Shared (acres)	New ROW Area (acres)	Existing ROW Area Shared (acres)	New ROW Area (acres)	Existing ROW Area Shared (acres)	New ROW Area (acres)	Existing ROW Area Shared (acres)	Existing Shared ROW Area Not Cleared (acres)	Existing Shared ROW Area Already Cleared (acres)	New ROW Area (acres)	Existing ROW Area Shared (acres)	Existing Shared ROW Area Not Cleared (acres)	Existing Shared ROW Area Already Cleared (acres)	New ROW Area (acres)	Existing ROW Area Shared (acres)	New ROW Area (acres)	
TOTAL B-North	38,355	---	---	2.39	30.69	0.00	0.94	0.00	0.00	0.55	0.15	6.15	10.00	2.16	9.59	0.19	0.19	0.00	1.38	0.74	0.63	0.11	37.03	2.96	4.65	
Total[3]	**841,900**			**95.9**	**691.9**	**8.8**	**61.3**	**0.8**	**3.6**	**0.0**	**1.3**	**370.7**	**129.8**	**92.8**	**146.8**	**14.3**	**5.8**	**8.5**	**57.1**	**111.2**	**51.1**	**60.1**	**464.9**	**164.5**	**37.4**	
Total with B-North[3]	**841,094**			**93.9**	**690.6**	**8.8**	**61.3**	**0.0**	**2.8**	**0.6**	**1.5**	**372.5**	**129.6**	**92.9**	**148.4**	**14.5**	**5.9**	**8.5**	**56.2**	**109.8**	**51.6**	**58.2**	**467.2**	**163.5**	**37.2**	

1 Developed/urban includes residential, commerical, and other developed lands. This category also includes paved/gravel roads and railroads.

2 Agriculture Specialty includes items such as cranberry bogs, vineyards, ginseng, orchards, tree farms and other specialty crops. The specialty crop identified for a given sub-segment is identified in the "Comments" column

3 The acreages included in this table are calculated from the total ROW required (new ROW and existing ROW) for the project. These areas may slightly differ from those in Table 2 (General Route Impacts) because of the varied ROW requirements along some sub-segments. Perpendicular crossings of roads, railroads, or other ROW are included in the existing ROW category.

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Table 6 - Federal, State, Local, and Tribal Lands* Excluding Road ROWs

NORTHERN ROUTE

Sub-segment ID	Property Owner	Name or Parcel ID	Description	Township, Range, Section (T, R, S)	ROW Length (ft)[1]	ROW Width (ft)[2]		ROW Area (acres)[3]		Correspondence/Approval Status
						Existing	New	Existing	New	
P2[4]	Town of Holland	Town of Holland Hall and Park	Baseball fields and several buildings present	T17N, R8W, S11	866	0	120	0.00	0.36	Owner has been informed of proposed route
P3[4]	Town of Holland	Town of Holland Hall and Park	Baseball fields and several buildings present	T17N, R8W, S11	195	58	62	0.00	0.20	Owner has been informed of proposed route
P3[4]	Town of Holland	Town of Holland Parcel	Undeveloped parcel	T17N, R8W, S2	168	58	62	0.00	0.04	Owner has been informed of proposed route
P5[4]	Mississippi Valley Conservancy Inc.	New Amsterdam Grasslands Property	Conservancy land managed primarily for grassland birds, privately owned but WDNR has input on management plan	T17N, R8W, S2; T18N, R8W, S35	3,921	80	40	5.07	2.04	WDNR / MVC consulted; parcel has received Knowles-Nelson Stewardship Program funds
P12[4]	Village of Holmen	Village of Holmen Parcel	Undeveloped parcel	T17N, R8W, S12	25	84	16	0.00	0.00	Owner has been informed of proposed route
N3b	City of Blair	City of Blair Parcel	Narrow undeveloped parcel	T21N, R7W, S16	20	120	0	0.06	0.00	Owner has been informed of proposed route
N3b	State of Wisconsin Department of Natural Resources	State Wildlife Habitat	State-owned wildlife habitat parcels	T21N, R6W, S18	2,616	120	0	7.21	0.00	WDNR consulted
N3b	Shawn / Ann Tschanz	Skutley Creek Conservation Easement	Privately owned land along Skutley Creek with federal conservation easement, assume federal management	T21N, R6W, S16-17	1,872	120	0	2.92	0.00	USFWS consulted
N5	City of Black River Falls	Skyline Golf Course	Publically owned golf course (proposed TL generally does not follow existing TL in this area)	T21N, R4W, S9	676	120	0	0.31	1.32	Owner has been informed of proposed route
N6	City of Black River Falls	City of Black River Falls parcels	Undeveloped parcels along interstate	T21N, R4W, S14	1,598	80	20	0.00	2.64	Owner has been informed of proposed route
N6	Jackson County	Jackson County Parcel	Narrow parcel paralleling Winnebago Ave.	T21N, R4W, S14	51	80	20	0.00	0.08	Owner has been informed of proposed route
N6	Jackson County	Jackson County Forest	County-owned forest	T20N, R3W, S3, 12, 13; T21N, R3W, S19, 29, 30, 32, 33; T21N, R4W, S24	20,700	80	20	0.00	23.17	Owner has been informed of proposed route
N6	State of Wisconsin	State of Wisconsin Parcels	Undeveloped parcels; assume to be owned and/or managed by WisDOT due to proximity to interstate and rest stop	T20N, R3W, S3; T21N, R3W, S33	1,048	80	20	0.00	0.66	WisDOT consulted
N6	State of Wisconsin	Black River State Forest	State forest	T19N, R2W, S1; T20N, R2W, S18-20, 27-28, 34-36	19,258	80	20	0.00	6.61	WDNR consulted, Land and Water Conservation Fund review process required
N6	Village of Millston	Village of Millston Parcel	Undeveloped parcel along interstate	T20N, R2W, S20	604	80	20	0.00	0.19	Owner has been informed of proposed route
N14	Juneau County Parks Committee	Omaha County Trail	Narrow trail crossing	T17N, R2E, S28	102	0	120	0.00	0.28	Owner has been informed of proposed route
N16	City of New Lisbon	City of New Lisbon Parcel	Undeveloped land along Lemonwier River	T16N, R3E, S5, 8	1,372	119	31	0.00	1.77	Owner has been informed of proposed route
M1	Village of Lyndon Station	Village of Lyndon Station Parcels	Primarily undeveloped parcels although treatment facility present on one parcel	T14N, R5E, S4, 10, 11	5,010	60	60	6.65	6.60	Owner has been informed of proposed route
J1	Town of Lyndon	Town of Lyndon Parcel	Narrow parcel likely for access road	T14N, R6E, S32	66	58	62	0.00	0.09	Owner has been informed of proposed route
H1	Wisconsin Department of Transportation	Wisconsin Department of Transportation Parcel	Narrow parcel apparently for lake access	T13N, R6E, S20	60	47	73	0.00	0.09	WisDOT consulted

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Table 6 - Federal, State, Local, and Tribal Lands* Excluding Road ROWs

NORTHERN ROUTE

Sub-segment ID	Property Owner	Name or Parcel ID	Description	Township, Range, Section (T, R, S)	ROW Length (ft)[1]	ROW Width (ft)[2]		ROW Area (acres)[3]		Correspondence/Approval Status
						Existing	New	Existing	New	
H2	State of Wisconsin Department of Natural Resources	Mirror Lake State Park	State Park	T13N, R6E, S29	2,446	73	27	0.00	1.59	WDNR consulted, Land and Water Conservation Fund review process required
H5	State of Wisconsin Department of Natural Resources	Pine Island State Wildlife Area	State Wildlife Area	T12N, R7E, S1, 2, 12; T12N, R8E, S7	8,745	32	88	0.00	18.17	WDNR consulted
H5	United States of America	USFWS Fairfield Marsh WPA	Waterfowl Production Area	T12N, R8E, S7	46	32	88	0.00	0.03	USFWS consulted, Federal review process required; Applicants filed application with agency Sept 2013
H6	United States of America	USFWS Fairfield Marsh WPA	Waterfowl Production Area	T12N, R8E, S7, 8	1,462	55	45	0.00	1.50	USFWS consulted, Federal review process required; Applicants filed application with agency Sept 2013
H7	State of Wisconsin Department of Natural Resources	Pine Island State Wildlife Area	State Wildlife Area	T12N, R8E, S8, 9, 15, 16	12,182	34	86	0.00	23.21	WDNR consulted
H7	Wisconsin Department of Transportation	Wisconsin Department of Transportation parcel	Undeveloped land along Baraboo River	T12N, R8E, S14, 23	484	34	86	0.00	1.30	WisDOT consulted
H7	United States of America	USFWS Fairfield Marsh WPA	Waterfowl Production Area	T12N, R8E, S8	5	34	86	0.00	0.01	USFWS consulted, Federal review process required; Applicants filed application with agency Sept 2013
G2	State of Wisconsin	State of Wisconsin Parcel	Undeveloped land along Wisconsin River	T11N, R8E, S12	461	62	131	0.00	2.49	WDNR and WisDOT consulted
D1	Village of Dane	Village of Dane Parcel	Undeveloped parcel	T9N, R8E, S13	291	100	20	0.41	0.00	Owner has been informed of proposed route

*** NOTE: Include properties that are managed by federal or state entities.**

1 Refers to the maximum length of a parcel within the proposed ROW. If several parcels are included for a line, this length represents the sum of the maximum lengths for each parcel
2 Refers to the existing and new ROW widths for a given sub-segment (not necessarily the widths at an individual parcel), in some cases these numbers are an average (see Table 2)
3 ROW Area was determined by digitizing in a GIS
4 Sub-segments P2, P3 and P5 refer to the Segment P option only and Sub-segment P12 refers to the Segment P-East option only

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Table 6 - Federal, State, Local, and Tribal Lands* Excluding Road ROWs

SOUTHERN ROUTE

Sub-segment ID	Property Owner	Name or Parcel ID	Description	Township, Range, Section (T, R, S)	ROW Length (ft)[1]	ROW Width (ft)[2]		ROW Area (acres)[3]		Correspondence/Approval Status
						Existing	New	Existing	New	
O3	Village of Holmen	West Cedar Meadows Park	Municipal park	T17N, R7W, S20	112	102	18	0.00	0.02	Owner has been informed of proposed route
O4	Town of Onalaska	Strawberry Commons Park	Municipal park	T17N, R7W, S29	156	114	6	0.00	0.02	Owner has been informed of proposed route
O4	City of Onalaska	City of Onalaska Parcel	Undeveloped parcel	T17N, R7W, S33	76	114	6	0.00	0.02	Owner has been informed of proposed route
O6	City of Onalaska	Sandalwood Park	Municipal park	T16N, R7W, S10	1,926	92	28	0.00	3.17	Owner has been informed of proposed route
O6	State of Wisconsin Department of Natural Resources	Scattered Wildlife	Undeveloped parcels along La Crosse River	T16N, R6W, S7	1,389	92	28	0.00	2.03	WDNR consulted
O6	State of Wisconsin Department of Natural Resources	La Crosse River State Trail	Trail crossing	T16N, R6W, S7	254	92	28	0.00	0.68	WDNR consulted
O6	Village of Bangor	Village of Bangor Parcel	Undeveloped land	T16N, R5W, S4	574	92	28	0.00	1.56	Owner has been informed of proposed route
O7d	Bruce / Vicki Peterson	La Crosse Area Comprehensive Fishery Area	Privately owned parcel with streambank easement along Little La Crosse River, managed by WDNR	T16N, R4W, S2	498	0	120	0.00	1.00	WDNR consulted
O8	Terry Bjorkman; Phil / Patricia Mlsna	La Crosse Area Comprehensive Fishery Area	Privately owned parcels with streambank easement along Little La Crosse River, managed by WDNR	T16N, R4W, S23, 24	258	50	70	0.15	0.13	WDNR consulted
O11a	Village of Cashton	Village of Cashton Parcel	Access road to municipal substation	T15N, R4W, S36	76	0	120	0.00	0.19	Owner has been informed of proposed route
O19	City of Elroy	City of Elroy Parcels	Several undeveloped parcels	T14N, R2E, S4; T15N, R2E, S32, 33	2,432	0	120	0.00	4.51	Owner has been informed of proposed route
O19	Linda Kranz Ormson	The 400 State Trail	Narrow 400 State Trail crossing, privately owned but assumed to be managed by WDNR	T15N, R2E, S33	101	0	120	0.00	0.28	WDNR consulted
O22	Town of Plymouth	Town of Plymouth Parcel	Narrow parcel through quarry that appears to be for potential road development	T14N, R2E, S1; T14N, R3E, S6; T15N, R2E, S31; T15N, R3E, S36	379	80	40	0.32	0.21	Owner has been informed of proposed route
O24	Mark Johnson	WRP Land	Privately owned land enrolled in NRCS Wetland Reserve Program, assume federally managed	T14N, R3E, S2	2,249	80	40	0.58	0.93	NRCS consulted
M1	Village of Lyndon Station	Village of Lyndon Station Parcels	Primarily undeveloped parcels although treatment facility present on one parcel	T14N, R5E, S4, 10, 11	5,010	60	60	6.65	6.60	Owner has been informed of proposed route

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Table 6 - Federal, State, Local, and Tribal Lands* Excluding Road ROWs

SOUTHERN ROUTE

Sub-segment ID	Property Owner	Name or Parcel ID	Description	Township, Range, Section (T, R, S)	ROW Length (ft)[1]	ROW Width (ft)[2]		ROW Area (acres)[3]		Correspondence/Approval Status
						Existing	New	Existing	New	
L1	Village of Lyndon Station	Village of Lyndon Station Parcel	Undeveloped parcel	T14N, R5E, S11	68	78	42	0.01	0.04	Owner has been informed of proposed route
J1	Town of Lyndon	Town of Lyndon Parcel	Narrow parcel likely for access road	T14N, R6E, S32	66	58	62	0.00	0.09	Owner has been informed of proposed route
I1	City of Wisconsin Dells	City of Wisconsin Dells Parcel	Undeveloped parcel	T13N, R6E, S4	21	32	88	0.00	0.00	Owner has been informed of proposed route
I2	City of Wisconsin Dells	City of Wisconsin Dells Parcel	Undeveloped parcel	T13N, R6E, S4	161	60	60	0.05	0.08	Owner has been informed of proposed route
I4	City of Wisconsin Dells	City of Wisconsin Dells Parcels	Undeveloped parcels along Wisconsin River	T13N, R6E, S10	1,254	75	45	1.70	1.14	Owner has been informed of proposed route
I5	State of Wisconsin Department of Natural Resources	Dells of the Wisconsin River SNA	State Natural Area	T13N, R6E, S10	83	101	19	0.00	0.01	WDNR consulted; Land and Water Conservation Fund review process required
I5	Owner not defined in parcel data	Statewide Wetland Mitigation Program	Appears to be narrow access path to mitigation site along Wisconsin River; assume managed by WDNR	T13N, R6E, S10	22	101	19	0.03	0.02	WDNR consulted
I5	Riverside Farms	WRP Land	Privately owned land enrolled in NRCS Wetland Reserve Program, assume federally managed	T13N, R7E, S21, 22, 27	1,428	101	19	1.83	0.48	NRCS consulted
I6	Columbia County	Columbia County Parcel	County-owned parcel adjacent to Adams-Marquette Electric Coop substation	T13N, R7E, S27	215	38	82	0.00	0.26	Owner has been informed of proposed route
I8	State of Wisconsin Department of Natural Resources	Pine Island Wildlife Area	State Wildlife Area	T13N, R8E, S33	2,425	96	24	2.12	1.55	WDNR consulted
I11	City of Portage	City of Portage Parcel	Undeveloped parcel	T13N, R8E, S35	1,255	43	77	0.00	2.33	Owner has been informed of proposed route
I12	City of Portage	City of Portage Parcel	Undeveloped parcel	T13N, R8E, S35	21	0	120	0.00	0.03	Owner has been informed of proposed route
I13	Town of Lewiston	Town of Lewiston Parcel	Undeveloped parcel	T12N, R8E, S1	282	52	68	0.00	0.07	Owner has been informed of proposed route
I13	City of Portage	City of Portage Parcel	Undeveloped parcel	T12N, R8E, S1	109	52	68	0.00	0.02	Owner has been informed of proposed route
I13	State of Wisconsin Department of Natural Resources	Pine Island Wildlife Area	State Wildlife Area	T12N, R8E, S12, 13	4,677	52	68	0.66	12.64	WDNR consulted
I13	Carol Genrich	EWPP-FPE Easement	Privately owned land with NRCS floodplain easement; assume federally managed	T12N, R8E, S24	420	52	68	0.00	0.13	NRCS consulted
G2	State of Wisconsin	State of Wisconsin Parcel	Undeveloped land along Wisconsin River	T11N, R8E, S12	461	62	131	0.00	2.49	WDNR and WisDOT consulted

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Table 6 - Federal, State, Local, and Tribal Lands* Excluding Road ROWs

SOUTHERN ROUTE

Sub-segment ID	Property Owner	Name or Parcel ID	Description	Township, Range, Section (T, R, S)	ROW Length (ft)[1]	ROW Width (ft)[2]		ROW Area (acres)[3]		Correspondence/Approval Status
						Existing	New	Existing	New	
F1	Wisconsin Department of Transportation	Interstate Rest Stop	WisDOT-owned parcel at highway rest stop	T11N, R9E, S18	42	0	120	0.00	0.01	WisDOT consulted
F1	State of Wisconsin Department of Natural Resources	Scattered Wildlife Area	Dekorra public hunting grounds	T11N, R8E, S13, 24	47	0	120	0.00	0.02	WDNR consulted
C2	Town of Vienna	Town of Vienna Parcel	Municipal parcel with several undetermined buildings present	T9N, R9E, S16	108	0	120	0.00	0.07	Owner has been informed of proposed route
B4[4]	Dane County	Sunnyside Seed Farm	Black Earth Creek Wildlife Area – Sunnyside Unit	T7N, R8E, S7, 8	2,652	50	70	3.04	4.26	Dane County and WDNR have been consulted on proposed route; parcel has received Knowles-Nelson Stewardship Program funds
B4a[4]	Dane County	Dane County Parcel	Narrow strip of land that appears to be for future road	T7N, R8E, S6	33	0	120	0.00	0.09	Owner has been informed of proposed route

*** NOTE: Include properties that are managed by federal or state entities.**

1 Refers to the maximum length of a parcel within the proposed ROW. If several parcels are included for a line, this length represents the sum of the maximum lengths for each parcel
2 Refers to the existing and new ROW widths for a given sub-segment (not necessarily the widths at an individual parcel), in some cases these numbers are an average (see Table 2)
3 ROW Area was determined by digitizing in a GIS
4 Sub-segment B4 refers to the Segment B option only and Sub-segment B4a refers to the Segment B-North option only

Table 7 - Route Impact Summaries

			ROW Area (acres)				Upland Acres				Wetlands Acres			Distance of Homes from ROW Centerline						Distance of Apartment Units and Buildings From ROW Centerline											
Route	Total Length (ft)	Total Length (mi)	Total	New	Shared	Percent Shared	Total Agricul-ture	Total Grass-lands	Existing ROW Woodland[A]	New ROW Woodland	Existing ROW Wooded Wetlands[A]	New ROW Wooded Wetlands	Total Non-Forested Wetland	0 - 25 feet	26 - 50 feet	51 - 100 feet	101 - 150 feet	151 - 300 feet	Total Homes	0 - 25 feet		26 - 50 feet		51 - 100 feet		101 - 150 feet		151 - 300 feet		Total Apartment Units	Total Apartment Buildings
																				Units	Bldgs	Units	Bldgs	Units	Bldgs	Units	Bldgs	Units	Bldgs		
Northern Route	959,130	**181.7**	2,615.3	992.7	1,622.7	**62%**	712.9	719.0	316.3	255.1	43.0	90.5	267.3	0	4	11	55	115	**185**	0	0	0	0	0	0	4	1	4	1	**8**	**2**
Northern Route with Segment P-East	955,702	**181.0**	2,600.9	975.7	1,625.2	**62%**	687.6	728.4	319.4	256.4	43.0	90.5	267.3	0	4	14	46	108	**172**	0	0	0	0	4	2	125	4	20	5	**149**	**11**
Southern Route	841,900	**159.5**	2,444.5	1,591.5	852.9	**35%**	863.6	500.5	111.2	464.9	14.3	57.1	239.6	0	1	14	33	178	**226**	0	0	0	0	26	13	16	8	96	38	**138**	**59**
Southern Route with Segment B-North	841,094	**159.3**	2,442.3	1,592.7	849.5	**35%**	859.4	502.1	109.8	467.2	14.5	56.2	241.3	0	1	13	34	180	**228**	0	0	0	0	26	13	16	8	96	38	**138**	**59**
																			0											**0**	**0**
																			0											**0**	**0**
																			0											**0**	**0**
																			0											**0**	**0**
																			0											**0**	**0**
																			0											**0**	**0**
																			0											**0**	**0**
																			0											**0**	**0**
																			0											**0**	**0**
																			0											**0**	**0**
																			0											**0**	**0**
																			0											**0**	**0**
																			0											**0**	**0**

Shaded cells have embedded formulas and will calculate the appropriate values. These cells are protected.

A Existing ROW Woodland and Existing ROW Wooded Wetlands includes converted (cleared) and uncleared forest in existing ROW

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Preliminary Off-ROW Access

Appendix B Table 10

Northern Route

Access Path[1]	Map Page[2]	Length (ft)	Length (mi)	Width (ft)[3]	Area (Acres)	Upland Acres[4]			Wetland Acres[4]		Other		COMMENTS[5]	JUSTIFICATION[6]
						Agricul-ture	Grass-lands	Upland Forest	Forested Wetland	Non-Forested Wetland	Developed/ Roads (acres)	Waterway Crossing[4]		
Northern Route Access Paths														
N-OR-015	11	899	**0.17**	16	**0.33**	0.00	0.00	0.33	0.00	0.00	0.00			steep terrain
N-OR-016	10-11	5,530	**1.05**	16	**2.04**	1.20	0.00	0.76	0.00	0.00	0.08		DNR hydro layer crosses path; waterway not visible on aerial photograph	steep terrain
N-OR-017	11	5,318	**1.01**	16	**1.96**	1.61	0.12	0.22	0.00	0.00	0.00		DNR hydro layer crosses path; waterway not visible on aerial photograph	steep terrain
N-OR-019	12	235	**0.04**	16	**0.08**	0.00	0.00	0.04	0.00	0.04	0.00			steep terrain
N-OR-021	12	815	**0.15**	16	**0.30**	0.00	0.09	0.21	0.00	0.00	0.00			steep terrain
N-OR-024	12	2,195	**0.42**	16	**0.81**	0.23	0.00	0.58	0.00	0.00	0.00			steep terrain
N-OR-025	13	1,983	**0.38**	16	**0.73**	0.73	0.00	0.00	0.00	0.00	0.00			steep terrain
N-OR-029	13	853	**0.16**	16	**0.31**	0.10	0.00	0.22	0.00	0.00	0.00			steep terrain
N-OR-030	14	2,457	**0.47**	16	**0.90**	0.32	0.01	0.44	0.00	0.00	0.14	TCSB needed	waterway N-OR-R1 is approximately 10 feet wide	steep terrain
N-OR-033	14	1,123	**0.21**	16	**0.41**	0.24	0.11	0.07	0.00	0.00	0.00			steep terrain
N-OR-041	16	3,195	**0.61**	16	**1.18**	0.58	0.18	0.01	0.00	0.00	0.41			steep terrain
N-OR-043	16	871	**0.16**	16	**0.32**	0.19	0.00	0.00	0.00	0.00	0.13			steep terrain
N-OR-056	18	1,628	**0.31**	16	**0.60**	0.00	0.09	0.45	0.00	0.00	0.06			steep terrain
N-OR-057	18	509	**0.10**	16	**0.19**	0.05	0.00	0.13	0.00	0.00	0.00			steep terrain
N-OR-060	18	482	**0.09**	16	**0.18**	0.13	0.00	0.04	0.00	0.00	0.00			steep terrain
N-OR-064	19	2,451	**0.46**	16	**0.90**	0.22	0.00	0.17	0.05	0.03	0.44		DNR hydro layer crosses path; culverted/bridged road crossings located across waterway	steep terrain
N-OR-065	20	326	**0.06**	16	**0.12**	0.00	0.00	0.12	0.00	0.00	0.00			steep terrain
N-OR-066	20	1,548	**0.29**	16	**0.57**	0.00	0.19	0.38	0.00	0.00	0.00			steep terrain
N-OR-100	25	648	**0.12**	16	**0.24**	0.16	0.00	0.00	0.00	0.00	0.08			steep terrain
N-OR-107	26	844	**0.16**	16	**0.31**	0.00	0.00	0.00	0.03	0.28	0.00	TCSB w/ center support	waterway crossing at N-OR-R2 is >35feet wide	several wide oxbow channels located within ROW
N-OR-108	27	2,855	**0.54**	16	**1.05**	0.07	0.00	0.00	0.00	0.97	0.01		DNR hydro layer crosses path; waterway not visible on aerial photograph	wide waterway crossing within ROW
N-OR-114	27	1,055	**0.20**	16	**0.39**	0.00	0.00	0.00	0.00	0.39	0.00			wide waterway crossings within ROW
N-OR-116a	28	2,863	**0.54**	16	**1.05**	0.46	0.02	0.00	0.00	0.56	0.01			wide waterway crossing within ROW
N-OR-116b	28	1,378	**0.26**	16	**0.51**	0.00	0.00	0.00	0.00	0.51	0.00			wide waterway crossing within ROW
N-OR-162	34	4,033	**0.76**	16	**1.48**	1.29	0.01	0.19	0.00	0.00	0.00			steep terrain
N-OR-165	34	2,687	**0.51**	16	**0.99**	0.00	0.00	0.99	0.00	0.00	0.00			steep terrain
N-OR-172	35	2,128	**0.40**	16	**0.72**	0.00	0.00	0.72	0.00	0.00	0.00			steep terrain
N-OR-173	35	1,377	**0.26**	16	**0.51**	0.00	0.33	0.18	0.00	0.00	0.00			steep terrain
N-OR-175	36	2,023	**0.38**	16	**0.74**	0.01	0.14	0.30	0.00	0.00	0.30			steep terrain
N-OR-178	36	534	**0.10**	16	**0.20**	0.00	0.00	0.20	0.00	0.00	0.00			steep terrain
N-OR-184	37	2,083	**0.39**	16	**0.76**	0.24	0.00	0.52	0.00	0.00	0.00			steep terrain
N-OR-193	38	1,250	**0.24**	16	**0.46**	0.00	0.00	0.45	0.00	0.00	0.01			steep terrain
N-OR-195	39	776	**0.15**	16	**0.28**	0.13	0.06	0.00	0.01	0.00	0.08		DNR hydro layer crosses path; culverted/bridged road crossings located across waterway	wide waterway crossing within ROW
N-OR-239	45	359	**0.07**	16	**0.13**	0.00	0.01	0.00	0.00	0.12	0.00		Crosses parcel owned by Jackson County	RR crossing and roadside embankment/access limitations
N-OR-353	62	207	**0.04**	16	**0.08**	0.07	0.01	0.00	0.00	0.00	0.00			road embankment/access limitations
N-OR-357	63	196	**0.04**	16	**0.07**	0.04	0.03	0.00	0.00	0.00	0.00			road embankment/access limitations
N-OR-388	68	295	**0.06**	16	**0.11**	0.00	0.10	0.00	0.00	0.00	0.00		Crosses parcel owned by the City of Tomah	road embankment/access limitations
N-OR-396	69	636	**0.12**	16	**0.23**	0.00	0.23	0.00	0.00	0.00	0.00			road embankment/access limitations
N-OR-401	70	1,008	**0.19**	16	**0.37**	0.06	0.01	0.00	0.00	0.00	0.30			road embankment/access limitations
N-OR-420	73	827	**0.16**	16	**0.30**	0.00	0.00	0.00	0.00	0.10	0.20			road embankment/access limitations

N-OR-425	74	338	**0.06**	16	**0.12**	0.00	0.00	0.00	0.00	0.00	0.12		Crosses parcel owned by the Village of Oakdale	road embankment/access limitations
N-OR-469	80	88	**0.02**	16	**0.03**	0.00	0.00	0.03	0.00	0.00	0.00			steep terrain
N-OR-472a	81	2,000	**0.38**	16	**0.73**	0.27	0.00	0.47	0.00	0.00	0.00			steep terrain
N-OR-472b	81	796	**0.15**	16	**0.29**	0.28	0.01	0.00	0.00	0.00	0.00			steep terrain
N-OR-480	83	770	**0.15**	16	**0.28**	0.00	0.00	0.00	0.02	0.26	0.00			RR crossing and roadside embankment/access limitations
N-OR-487	84	475	**0.09**	16	**0.17**	0.00	0.00	0.00	0.00	0.17	0.00			road embankment/access limitations
N-OR-493	84	835	**0.16**	16	**0.31**	0.29	0.00	0.00	0.00	0.01	0.00			road embankment/access limitations
N-OR-503	86	921	**0.17**	16	**0.34**	0.13	0.00	0.00	0.05	0.03	0.13			road embankment/access limitations
N-OR-548	92	336	**0.06**	16	**0.12**	0.00	0.00	0.00	0.00	0.00	0.12			road embankment/access limitations
N-OR-565	94	479	**0.09**	16	**0.18**	0.08	0.05	0.01	0.00	0.00	0.04			road embankment/access limitations
N-OR-573	96	213	**0.04**	16	**0.08**	0.03	0.05	0.00	0.00	0.00	0.00			road embankment/access limitations
N-OR-574	96	429	**0.08**	16	**0.16**	0.16	0.00	0.00	0.00	0.00	0.00			road embankment/access limitations
N-OR-580	97	364	**0.07**	16	**0.13**	0.00	0.12	0.00	0.00	0.00	0.01			road embankment/access limitations
K-OR-002	103	367	**0.07**	16	**0.14**	0.00	0.10	0.04	0.00	0.00	0.00			road embankment/access limitations
K-OR-012	106	604	**0.11**	16	**0.23**	0.00	0.21	0.01	0.00	0.00	0.01			road embankment/access limitations
K-OR-014	106	261	**0.05**	16	**0.10**	0.00	0.03	0.07	0.00	0.00	0.00			road embankment/access limitations
H-OR-003	110	2,304	**0.44**	16	**0.85**	0.00	0.59	0.26	0.00	0.00	0.00			road embankment/access limitations
H-OR-007	110	400	**0.08**	16	**0.15**	0.05	0.06	0.03	0.00	0.00	0.00			road embankment/access limitations
H-OR-014	110	461	**0.09**	16	**0.17**	0.00	0.05	0.12	0.00	0.00	0.00			road embankment/access limitations
H-OR-029	113	676	**0.13**	16	**0.25**	0.21	0.00	0.00	0.00	0.00	0.04			road embankment/access limitations
H-OR-047	116	300	**0.06**	16	**0.11**	0.10	0.01	0.00	0.00	0.00	0.00			road embankment/access limitations
H-OR-053	117	306	**0.06**	16	**0.11**	0.00	0.11	0.00	0.00	0.00	0.00			road embankment/access limitations
H-OR-054	117	331	**0.06**	16	**0.13**	0.08	0.03	0.01	0.00	0.00	0.00			road embankment/access limitations
H-OR-063	119	690	**0.13**	16	**0.25**	0.24	0.01	0.00	0.00	0.00	0.00			road embankment/access limitations
H-OR-064	119	463	**0.09**	16	**0.17**	0.17	0.01	0.00	0.00	0.00	0.00			road embankment/access limitations
G-OR-018	131	230	**0.04**	16	**0.09**	0.00	0.03	0.00	0.06	0.00	0.00			road embankment/access limitations
E-OR-004	133	470	**0.09**	16	**0.18**	0.15	0.02	0.00	0.00	0.00	0.00			road embankment/access limitations
E-OR-007	134	351	**0.07**	16	**0.13**	0.06	0.07	0.00	0.00	0.00	0.00			road embankment/access limitations
E-OR-010	134	338	**0.06**	16	**0.13**	0.11	0.02	0.00	0.00	0.00	0.00			road embankment/access limitations
E-OR-011	134	511	**0.10**	16	**0.19**	0.16	0.00	0.00	0.00	0.00	0.03			road embankment/access limitations
E-OR-012	134	1,933	**0.37**	16	**0.71**	0.00	0.02	0.12	0.04	0.06	0.46			road embankment/access limitations
E-OR-013	135	2,554	**0.48**	16	**0.94**	0.00	0.09	0.65	0.00	0.09	0.10			road embankment/access limitations
A-OR-026	163	932	**0.18**	16	**0.34**	0.01	0.00	0.00	0.00	0.00	0.33			road embankment/access limitations
Total		85,008	**16.1**	NA	**31.3**	10.7	3.4	9.5	0.3	3.6	3.6			

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[2] Access routes are shown on Figure 10A and 10B

[3] The width of the access paths represents an approximate value typical construction practices. Some areas may deviate from this value depending on site conditions.

[4] Land cover and waterways crossings were determined based on available reference materials and by aerial photo interpretation.

[5] General comments about the access path such as descriptions of waterways and/or public lands crossed (excluding road ROW), if any. Further descriptions are provided in Section 5.7 of the application.

[6] Brief description of constraints within the ROW which facilitate the need for off-ROW access. Further descriptions are provided in Section 5.7 of the application.

DOCKET NO. 5-CE-142

Preliminary Off-ROW Access

Appendix B Table 10

Southern Route

Access Path[1]	Map Page[2]	Length (ft)	Length (mi)	Width (ft)[3]	Area (Acres)	Upland Acres[4]			Wetland Acres[4]		Other		COMMENTS[5]	JUSTIFICATION[6]
						Agricul-ture	Grass-lands	Upland Forest	Forested Wetland	Non-Forested Wetland	Developed/ Roads (acres)	Waterway Crossing[4]		
Southern Route Access Paths														
O-OR-198	31	665	**0.13**	16	**0.24**	0.00	0.00	0.00	0.00	0.00	0.24			steep terrain
O-OR-199	32	1,476	**0.28**	16	**0.51**	0.00	0.15	0.12	0.00	0.06	0.18	TCSB needed	waterway O-OR-R1 is approximately 15 feet wide	steep terrain
O-OR-200	32	1,433	**0.27**	16	**0.53**	0.00	0.03	0.09	0.00	0.00	0.40			steep terrain
O-OR-200a	32	1,800	**0.34**	16	**0.66**	0.00	0.00	0.60	0.00	0.00	0.06			steep terrain
O-OR-203	32	1,658	**0.31**	16	**0.61**	0.42	0.00	0.00	0.00	0.00	0.19			steep terrain
O-OR-204	33	506	**0.10**	16	**0.19**	0.17	0.02	0.00	0.00	0.00	0.00			steep terrain
O-OR-207	33	488	**0.09**	16	**0.18**	0.18	0.00	0.00	0.00	0.00	0.00			steep terrain
O-OR-209	33	1,187	**0.22**	16	**0.44**	0.03	0.14	0.01	0.00	0.00	0.26			steep terrain
O-OR-213	34	761	**0.14**	16	**0.28**	0.24	0.00	0.00	0.00	0.00	0.04			steep terrain
O-OR-269	43	519	**0.10**	16	**0.19**	0.15	0.00	0.04	0.00	0.00	0.00			steep terrain
O-OR-270	43	3,478	**0.66**	16	**1.28**	1.08	0.00	0.20	0.00	0.00	0.00			steep terrain
O-OR-272	43	3,166	**0.60**	16	**1.16**	0.11	0.19	0.81	0.00	0.00	0.05		DNR hydro layer crosses path; waterway not visible on aerial photograph and adjacent waterway not field identified in ROW	steep terrain
O-OR-273	43	820	**0.16**	16	**0.30**	0.04	0.00	0.27	0.00	0.00	0.00			steep terrain
O-OR-279	44	1,159	**0.22**	16	**0.43**	0.28	0.14	0.00	0.00	0.00	0.00			steep terrain
O-OR-280	45	1,811	**0.34**	16	**0.67**	0.01	0.28	0.24	0.00	0.00	0.13		DNR hydro layer crosses path; waterway not visible on aerial photograph	steep terrain
O-OR-282	45	3,713	**0.70**	16	**1.36**	1.33	0.00	0.00	0.00	0.00	0.03			steep terrain
O-OR-286	46	1,239	**0.23**	16	**0.46**	0.43	0.03	0.00	0.00	0.00	0.00			steep terrain
O-OR-288	46-47	3,999	**0.76**	16	**1.47**	0.02	0.63	0.07	0.00	0.01	0.74			steep terrain
O-OR-295	48	1,859	**0.35**	16	**0.68**	0.32	0.09	0.27	0.00	0.00	0.00			steep terrain
O-OR-300	49	4,550	**0.86**	16	**1.67**	1.23	0.06	0.13	0.00	0.00	0.25			steep terrain
O-OR-302	49	499	**0.09**	16	**0.18**	0.18	0.00	0.00	0.00	0.00	0.00			steep terrain
O-OR-303	49	1,908	**0.36**	16	**0.70**	0.59	0.01	0.00	0.00	0.09	0.00	TCSB needed	Waterway O-OR-R2 is approximately 5 feet wide	steep terrain
O-OR-315	51	1,412	**0.27**	16	**0.52**	0.42	0.00	0.00	0.00	0.00	0.09			steep terrain
O-OR-317	52	1,396	**0.26**	16	**0.51**	0.51	0.00	0.00	0.00	0.00	0.00			steep terrain
O-OR-318	52	1,314	**0.25**	16	**0.48**	0.40	0.00	0.00	0.00	0.00	0.08			steep terrain
O-OR-320	52	1,527	**0.29**	16	**0.56**	0.52	0.03	0.00	0.00	0.00	0.01			steep terrain
O-OR-330	54	746	**0.14**	16	**0.27**	0.13	0.12	0.03	0.00	0.00	0.00			steep terrain
O-OR-331	54	1,454	**0.28**	16	**0.53**	0.53	0.00	0.00	0.00	0.00	0.00			steep terrain
O-OR-381	62	1,369	**0.26**	16	**0.50**	0.47	0.01	0.01	0.00	0.00	0.02			steep terrain
O-OR-382	62	1,570	**0.30**	16	**0.58**	0.49	0.00	0.02	0.00	0.00	0.06			steep terrain
O-OR-383	62	1,262	**0.24**	16	**0.46**	0.46	0.00	0.01	0.00	0.00	0.00			steep terrain
O-OR-384	62	1,390	**0.26**	16	**0.51**	0.39	0.00	0.06	0.00	0.00	0.06			steep terrain
O-OR-385	63	1,584	**0.30**	16	**0.58**	0.47	0.01	0.03	0.00	0.00	0.07			steep terrain
O-OR-388	63	561	**0.11**	16	**0.21**	0.00	0.00	0.01	0.00	0.00	0.19			steep terrain
O-OR-391	64	580	**0.11**	16	**0.21**	0.03	0.15	0.04	0.00	0.00	0.00		Crosses parcel owned by the City of Elroy	steep terrain
O-OR-393	64	1,105	**0.21**	16	**0.41**	0.00	0.22	0.04	0.02	0.01	0.11			steep terrain
O-OR-430	69	904	**0.17**	16	**0.33**	0.27	0.00	0.06	0.00	0.00	0.00			steep terrain
O-OR-431	69	2,285	**0.43**	16	**0.84**	0.37	0.00	0.00	0.00	0.47	0.00			steep terrain
O-OR-433	69	874	**0.17**	16	**0.32**	0.31	0.01	0.00	0.00	0.00	0.00			steep terrain
I-OR-112	106	721	**0.14**	16	**0.26**	0.00	0.12	0.12	0.00	0.00	0.02			road embankment/access limitations
I-OR-122	109	1,073	**0.20**	16	**0.39**	0.39	0.00	0.00	0.00	0.00	0.00			road embankment/access limitations
I-OR-124	109	600	**0.11**	16	**0.22**	0.03	0.09	0.07	0.00	0.03	0.00			road embankment/access limitations
I-OR-128	110	1,323	**0.25**	16	**0.49**	0.03	0.06	0.07	0.00	0.16	0.16		DNR hydro layer crosses path; culverted/bridged crossing located across waterway	road embankment/access limitations
I-OR-130	110	534	**0.10**	16	**0.20**	0.00	0.12	0.00	0.00	0.08	0.00			road embankment/access limitations
G-OR-018	113	230	**0.04**	16	**0.08**	0.00	0.02	0.06	0.00	0.00	0.00			road embankment/access limitations
B-OR-008	145	1,959	**0.37**	16	**0.72**	0.30	0.02	0.40	0.00	0.00	0.00			steep terrain
B-OR-016	147	2,095	**0.40**	16	**0.77**	0.04	0.04	0.11	0.00	0.01	0.57		DNR hydro layer crosses path; culverted/bridged driveway crossing located across waterway	steep terrain
B-OR-018	147	891	**0.17**	16	**0.33**	0.00	0.04	0.00	0.00	0.00	0.29			steep terrain
B-OR-025	148	558	**0.11**	16	**0.21**	0.20	0.00	0.00	0.00	0.00	0.00			steep terrain
B-OR-026	148	1,032	**0.20**	16	**0.38**	0.00	0.00	0.02	0.00	0.00	0.36			steep terrain
B-OR-039	150	1,943	**0.37**	16	**0.71**	0.17	0.05	0.49	0.00	0.00	0.00			steep terrain
Total		72,988	**13.8**	NA	**26.8**	13.7	2.9	4.5	0.02	0.9	4.7			

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