

**Exhibit H – Updated versions of Section 4.1 General Route Description and Table 5.17-1 Summary of Project ROW from the Route Permit Application****4.1 General Route Description**

The following is a description of the Project Route from west to east starting at the Center 345 kV Substation and ending at the Prairie Substation (**Figure 1**). The Project Route is approximately 250-miles-long. The Project Route proceeds diagonally northeast out of the Center 345 kV Substation for about 0.9 miles to the section line, then proceeds due east along the section line for about 3.25 miles. The Project Route then turns diagonally southeast on a cross-country path for about 0.5 miles, then proceeds east for approximately 0.75 miles, then northeast for about 0.5 miles to the section line. The Project Route travels east along the section line for about 3 miles, then diagonals to the northeast for about 1 mile, then turns to travel east for almost 3 miles to the Missouri River. It crosses the Missouri River about 0.16 miles north of the existing HVDC transmission line on the west side of the river and about 0.5 miles north of the existing HVDC transmission line on the east side of the river. From the west side of the Missouri River, the Project Route proceeds diagonally northeast for almost 2 miles, crossing State Highway 1804, then the Project Route proceeds east along 279th Ave NE for about 2.25 miles. The Project Route then proceeds north for about 0.75 miles before turning diagonally northwest for about 2 miles. The Project Route then proceeds north for 3.75 miles along a section line with a one structure bend in the Project Route near Yanktonai Lake, and then east for about 5.5 miles along a quarter-section line to within 0.5 miles west of State Highway 41.

The Project Route proceeds north for about 8.5 miles along the quarter-section line about 0.5 miles west of State Highway 41, turns east for approximately 2 miles along State Highway 41, and follows State Highway 41 to the north for about 9 miles; within this segment, the Project Route spans the McClusky Canal and Chain of Lakes Recreation Area. The Project Route turns east for about 2 miles along 3rd St NW to the McLean/Sheridan County line. The Project Route proceeds diagonally, cross-country for about 2.4 miles to 5th St NW; then turns east along 5th St NW for about 0.75 miles. The Project Route travels diagonally, cross-country for about 7 miles, then diagonally northeast for 0.75 miles to the west side of 1st Ave NE in Sheridan County. At that point the Project Route proceeds east (about 0.25 miles north of 10th St NE) for about 20.5 miles; within this segment, the Project Route crosses the McClusky Canal and State Highway 14. The Project Route turns south for about 0.25 miles to 10th St NE/the section line; then turns east along the section line for about 4 miles, before turning north for about 0.25 miles to go east for about 1 mile approximately 0.25 miles north of 10th St NE. The Project Route turns south for about 0.25 miles to the section line, then travels east for about 2.25 miles along the section line to within 0.25 miles west of State Highway 3, and then proceeds north for about 1 mile to 11th St NE. The Project Route turns east along 11th St NE for about 6.75 miles, crossing State Highway 3, then turns north for about 1 mile on a quarter-section line to 12th St NE. The Project Route turns east along 12th St NE for about 9 miles, crossing U.S. Highway 52; then turns north for about 1.5 miles on a quarter-section line between 44th Ave NE and 45th Ave NE. The Project Route turns east along a quarter-section line between 13th St NE and 14th St NE for about 17.5 miles to 62nd Ave NE in Eddy County, crossing State Highway 30. The Project Route turns north along 62nd Ave NE for about 0.5 miles, then turns east for about 1.5 miles, before turning south for about 0.5 miles to the quarter-section line. The Project Route turns east along a quarter-section line for about 8 miles to a quarter-section line between 71st Ave NE and 72nd Ave NE, crossing U.S. Highway 281, where it turns south for about 1 mile to just north of the quarter-section line, and continues east for about 4 miles just north of the quarter-section line to where it turns south for about 0.5 miles to just north of the

section line along 12th St NE (Foster/Eddy County line) where it travels approximately 12 miles to the east.

To bypass the towns of McHenry and Binford, the Project Route goes south for approximately 3.25 miles, then east for about 12.5 miles along 3rd St NE/9th St NE (crossing State Highway 20), and north for about 3 miles to 12th St NE. Along 12th St NE, the Project Route heads east for about 20.5 miles, across State Highway 1, Sheyenne River, and State Highway 45, to about 0.5 miles east of 120th Ave NE in Steele County where the Project Route travels north for about 6 miles on the quarter-section to 18th St NE near Aneta. At Aneta, the Project Route goes northeast, diagonally, cross-country for about 7.5 miles to 6th Ave NE in Grand Forks County. The Project Route travels east along 6th Ave NE for about 7.75 miles, then north for about 0.2 miles along 41st St NE. The Project Route then proceeds east for about 9.5 miles, crossing State Highway 18, and turns north for about 2 miles along the quarter-section line (about 0.5 miles west of 31st St NE). Then the Project Route travels east about 200 feet north of 8th Ave NE for about 4.5 miles to 27th St NE. At 27th St NE, the Project Route travels north for about 0.5 miles and then travels east for about 4.25 miles to the existing Western (Western Area Power Administration) 230 kV transmission line. Then, the Project Route proceeds northeast, diagonally, cross-country for about 4 miles adjacent to the Western line ROW, then north for about 2.5 miles along the quarter-section line, approximately 0.5 miles west of 19th St NE, where it turns to go east along the 14th Ave NE section line for about 0.5 miles to 19th St NE. The Project Route goes north for about 1.5 miles along 19th St NE to the quarter-section line between 15th Ave NE and 16th Ave NE. The Project Route turns to go east along the quarter-section line for almost 4.5 miles. At 0.5 miles west of 14th St NE, the Project Route heads north along the quarter-section line for about 0.75 miles to the south side of the existing 230 kV transmission line and then proceeds east along the south side of the existing transmission line for about 1.5 miles into the Prairie Substation.

### 5.17 Summary of Route Impacts

Table 5.17-1 summarizes temporary and permanent impacts to the resources discussed in Chapter 5. Table 5.17-2 summarizes the appropriate mitigation for resources that will be impacted as a result of Project construction.

**Table 5.17-1. Summary of Project ROW**

<b>Resource</b>		<b>ROW</b>	
<b>Project Facility</b>	Total Length (miles)	250	
	Total ROW Acres	4,548	
	Number of Structures	1,337	
<b>Impact Acres</b>	Acres of Temporary Impact	1,010	
	Acres of Permanent Impact	3.4	
	Acres of Woodland Conversion	46	
<b>Homes</b>	Count within 500 ft of the Transmission Facility	9 – Occupied or Vacant, habitable 1 – Vacant, not habitable	
<b>Wetlands</b>	Acres of Desktop and Field Reviewed Wetlands in the Project ROW (from Wetland Delineation Report)	546	
	Wetland Impact (from Wetland Delineation Report)	<b>Temporary</b> 107 ac	<b>Permanent</b> 2,496 sq ft
<b>Land Cover</b>	<b>Impact Acres</b>	<b>Temporary</b>	<b>Permanent</b>
	Cropland	534.8	5.7
	Shrubland	183.2	0.3
	Pasture	180.0	0.8
	Prairie	158.3	0.5
	Woodland	0.0	45.9
	Wetland	79.6	0.1
	Developed	3.4	0.0
Barren/Sparse Vegetation	1.1	0.0	
<b>Prime Farmland</b>	Prime Farmland	282.0	2.2
	Prime Farmland if Drained	111.0	1.0
	Farmland of Statewide Importance	152.0	1.8
<b>USFWS Easements</b>	USFWS Wetland (from Special Use Permit EA)	0.33 ac	156 sq ft
	USFWS Grassland (from Special Use Permit EA)	4 ac	468 sq ft
<b>Floodplains</b>	Number of Structures within Floodplain Areas	16	
	Floodplain Impact	<b>Temporary</b> 13.5 ac	<b>Permanent</b> 0.1 ac

Resource		ROW
Resource Areas	Managed Resource Areas affected by the Project	Two - Wilbur Boldt WMA - Chain of Lakes Recreation Area
	Archaeological Resources in ROW	- 29 sites in ROW - 12 structures within 6 sites - No impacts anticipated
Cultural	Architectural Properties in Architectural APE	- 36 architectural resources identified within the Architectural APE - 1 eligible and 9 recommended eligible structures within the Architectural APE - 1 structure will be visually impacted, but the impact will be mitigated through screening
	Federally Listed Species within ROW	0
Species	Federally Listed Species within 1 mile	6
	Sensitive Species within ROW (nests)	1
	Sensitive Species within 1 mile (including NHI, leks, nests, and bald eagles)	54
	Center Pivot Irrigation within ROW	0
Infrastructure	Communication Tower within ROW	0
	Airports within 1 Mile of Route Centerline	1