Appendix L

Soil Characteristics

Northern States Power Company and Dairyland Power Cooperative
Gopher to Badger Link Transmission Line Project
Soil Characteristics within the Proposed ROW

Map Unit Symbol	Map Unit Name	Proposed ROW (acres)	Farmland Designation [a]	Hydric Soil [a]	Wind Erodible [b]	Water Erodible [c]	Revegetation Concern [d]	Compaction Prone [e]	Slope Range [f]	Drainage Class [a]	Min. Water Table Depth (in) [g]	Depth to Restriction (in) / Kind [h]
Segment 1												
765-kV												
Goodhue County, Minnesota (MN049)												
N514B	Joy-Ossian, occasionally flooded, complex, 1 to 5 percent slopes	4.7	Prime farmland if protected from flooding or not frequently flooded during the growing season	No	No	No	No	Yes	0-5	Somewhat poorly drained	0	>60 / N/A
N572D2	Downs-Hersey, bedrock substratum, complex, 12 to 18 percent slopes, moderately eroded	1.2	Not prime farmland	No	No	Yes	Yes	No	>8-15	Well drained	>60	>60 / N/A
N574B	Downs-Hersey complex, 2 to 6 percent slopes	63.1	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	42	>60 / N/A
N574C2	Downs-Hersey complex, 6 to 12 percent slopes, moderately eroded	53.1	Farmland of statewide importance	No	No	Yes	No	No	>8-15	Well drained	42	>60 / N/A
N574D2	Downs-Hersey complex, 12 to 18 percent slopes, moderately eroded	3.4	Not prime farmland	No	No	Yes	Yes	No	>8-15	Well drained	42	>60 / N/A
N578B	Barremills silt loam, drainageway, 1 to 5 percent slopes, occasionally flooded	7.3	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	42	>60 / N/A
N602A	Joy silt loam, 1 to 3 percent slopes	15.4	All areas are prime farmland	No	No	No	No	Yes	0-5	Somewhat poorly drained	18	>60 / N/A
N606B	Richwood silt loam, 1 to 6 percent slopes	10.9	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	>60 / N/A
N619A	Kennebec-Lawson, channeled, complex, 0 to 3 percent slopes, flooded	1.2	Farmland of statewide importance	No	No	No	No	No	0-5	Moderately well drained	18	>60 / N/A
Olmsted County, Minnesota (MN109)												
1010	Pits, limestone quarry	7.1	Not prime farmland	NR	NR	NR	NR	NR	>5-8	NR	NR	NR / NR
11C	Sogn loam, 4 to 12 percent slopes	2.0	Not prime farmland	No	No	No	Yes	No	>5-8	Somewhat excessively drained	>60	8 / Paralithic bedrock 12 / Lithic bedrock
16	Arenzville silt loam, 0 to 3 percent slopes, occasionally flooded	4.7	All areas are prime farmland	No	No	No	No	No	0-5	Moderately well drained	48	>60 / N/A
176	Garwin silty clay loam	33.1	Prime farmland if drained	Yes	No	No	No	Yes	0-5	Poorly drained	0	>60 / N/A
1811B	Lamont-Racine complex, 2 to 6 percent slopes	16.1	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	42	>60 / N/A
1812B	Terril loam, sandy substratum, 1 to 6 percent slopes	0.7	All areas are prime farmland	No	No	No	No	No	0-5	Moderately well drained	30	>60 / N/A
1832C	Ostrander-Dowagiac loams, 6 to 12 percent slopes	2.3	Farmland of statewide importance	No	No	No	No	No	>5-8	Well drained	>60	>60 / N/A
1846	Kato silty clay loam, depressional	0.1	Prime farmland if drained	Yes	No	No	No	Yes	0-5	Very poorly drained	0	>60 / N/A

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Map Unit Symbol	Map Unit Name	Proposed ROW (acres)	Farmland Designation [a]	Hydric Soil [a]	Wind Erodible [b]	Water Erodible [c]	Revegetation Concern [d]	Compaction Prone [e]	Slope Range [f]	Drainage Class [a]	Min. Water Table Depth (in) [g]	Depth to Restriction (in) / Kind [h]
19	Chaseburg silt loam, moderately well drained, 0 to 2 percent slopes	14.3	All areas are prime farmland	No	No	No	No	No	0-5	Moderately well drained	48	>60 / N/A
203	Joy silt loam, 1 to 4 percent slopes	28.6	All areas are prime farmland	No	No	No	No	Yes	0-5	Somewhat poorly drained	0	>60 / N/A
216B	Lamont sandy loam, 2 to 6 percent slopes	5.5	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	>60 / N/A
23	Skyberg silt loam, 0 to 3 percent slopes	0.6	Prime farmland if drained	No	No	No	No	Yes	0-5	Somewhat poorly drained	12	>60 / N/A
24	Kasson silt loam, 1 to 4 percent slopes	0.1	All areas are prime farmland	No	No	No	No	No	0-5	Moderately well drained	24	>60 / N/A
251F	Marlean silty clay loam, 25 to 40 percent slopes	1.8	Not prime farmland	No	No	Yes	Yes	No	>15-30	Well drained	>60	>60 / N/A
27A	Dickinson sandy loam, 0 to 1 percent slopes	3.9	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	>60 / N/A
27B	Dickinson sandy loam, 2 to 6 percent slopes	1.1	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	>60 / N/A
283B	Plainfield loamy sand, river valley, 1 to 6 percent slopes	11.9	Not prime farmland	No	Yes	No	Yes	No	0-5	Excessively drained	>60	>60 / N/A
283C	Plainfield sand, river valley, 6 to 15 percent slopes	0.8	Not prime farmland	No	Yes	No	Yes	No	>8-15	Excessively drained	>60	>60 / N/A
289	Radford silt loam	8.5	All areas are prime farmland	No	No	No	No	Yes	0-5	Somewhat poorly drained	18	>60 / N/A
299A	Rockton loam, 0 to 1 percent slopes	21.7	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	31 / Lithic bedrock
299B	Rockton loam, 1 to 6 percent slopes	22.8	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	31 / Lithic bedrock
299C	Rockton loam, 6 to 12 percent slopes	2.4	Farmland of statewide importance	No	No	No	No	No	>5-8	Well drained	>60	31 / Lithic bedrock
2B	Ostrander loam, 2 to 5 percent slopes	0.2	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	>60 / N/A
312B	Shullsburg silt loam, 2 to 6 percent slopes	1.8	All areas are prime farmland	No	No	No	No	Yes	0-5	Somewhat poorly drained	18	37 / Paralithic bedrock
312C	Shullsburg silt loam, 6 to 12 percent slopes	2.4	Farmland of statewide importance	No	No	No	No	Yes	>5-8	Somewhat poorly drained	18	27 / Paralithic bedrock
322C2	Timula silt loam, 6 to 12 percent slopes, moderately eroded	19.6	Farmland of statewide importance	No	No	Yes	No	No	>5-8	Well drained	>60	>60 / N/A
322D2	Timula silt loam, 12 to 20 percent slopes, moderately eroded	10.9	Not prime farmland	No	No	Yes	Yes	No	>15-30	Well drained	>60	>60 / N/A
333	Vasa silt loam	5.1	All areas are prime farmland	No	No	No	No	No	0-5	Moderately well drained	30	>60 / N/A
340B	Whalan loam, 1 to 6 percent slopes	4.1	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	27 / Lithic bedrock
340C	Whalan loam, 6 to 12 percent slopes	2.7	Farmland of statewide importance	No	No	No	No	No	>5-8	Well drained	>60	27 / Lithic bedrock
369B	Waubeek silt loam, 1 to 6 percent slopes	6.1	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	>60 / N/A

Northern States Power Company and Dairyland Power Cooperative
Gopher to Badger Link Transmission Line Project
Soil Characteristics within the Proposed ROW

Map Unit Symbol	Map Unit Name	Proposed ROW (acres)	Farmland Designation [a]	Hydric Soil [a]	Wind Erodible [b]	Water Erodible [c]	Revegetation Concern [d]	Compaction Prone [e]	Slope Range [f]	Drainage Class [a]	Min. Water Table Depth (in) [g]	Depth to Restriction (in) / Kind [h]
369C	Waubeek silt loam, 6 to 12 percent slopes	4.8	Farmland of statewide importance	No	No	No	No	No	>5-8	Well drained	>60	>60 / N/A
465	Kalmarville silt loam	1.5	Not prime farmland	Yes	No	No	Yes	Yes	0-5	Poorly drained	0	>60 / N/A
467	Sawmill silty clay loam	2.6	Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season	Yes	No	No	No	Yes	0-5	Poorly drained	0	>60 / N/A
468	Otter silt loam, channeled	18.9	Not prime farmland	Yes	No	No	Yes	Yes	0-5	Poorly drained	0	>60 / N/A
471	Root silt loam	2.0	Not prime farmland	Yes	No	No	Yes	Yes	0-5	Poorly drained	0	>60 / N/A
472B	Channahon loam, 1 to 6 percent slopes	9.2	Farmland of statewide importance	No	No	No	No	No	0-5	Well drained	>60	15 / Lithic bedrock
472C	Channahon loam, 6 to 12 percent slopes	13.0	Not prime farmland	No	No	No	Yes	No	>5-8	Well drained	>60	13 / Lithic bedrock
473D	Dorerton loam, 12 to 25 percent slopes	3.1	Not prime farmland	No	No	Yes	Yes	No	>15-30	Well drained	>60	>60 / N/A
473F	Dorerton loam, 25 to 40 percent slopes	0.8	Not prime farmland	No	No	Yes	Yes	No	>30	Well drained	>60	>60 / N/A
474B	Haverhill silty clay loam, 1 to 8 percent slopes	0.3	Not prime farmland	Yes	No	No	Yes	Yes	>5-8	Very poorly drained	0	32 / Paralithic bedrock
475B	Backbone sandy loam, 1 to 6 percent slopes	16.0	Farmland of statewide importance	No	No	No	Yes	No	0-5	Well drained	>60	28 / Paralithic bedrock 32 / Lithic bedrock
476B	Frankville silt loam, 1 to 6 percent slopes	0.7	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	37 / Lithic bedrock 41 / Paralithic bedrock
476C	Frankville silt loam, 6 to 12 percent slopes	2.1	Farmland of statewide importance	No	No	Yes	No	No	>5-8	Well drained	>60	37 / Lithic bedrock 41 / Paralithic bedrock
477A	Littleton silt loam, 0 to 1 percent slopes	0.5	All areas are prime farmland	No	No	No	No	Yes	0-5	Somewhat poorly drained	18	>60 / N/A
477B	Littleton silt loam, 1 to 4 percent slopes	14.9	All areas are prime farmland	No	No	No	No	Yes	0-5	Somewhat poorly drained	18	>60 / N/A
479	Floyd silt loam, 1 to 4 percent slopes	6.5	All areas are prime farmland	No	No	No	No	Yes	0-5	Somewhat poorly drained	12	>60 / N/A
484C	Eyota sandy loam, 6 to 12 percent slopes	3.1	Farmland of statewide importance	No	No	No	No	No	>5-8	Well drained	>60	>60 / N/A
484E	Eyota loamy sand, 12 to 25 percent slopes	0.4	Not prime farmland	No	Yes	Yes	Yes	No	>15-30	Well drained	>60	>60 / N/A
489A	Atkinson loam, 0 to 1 percent slopes	14.4	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	34 / Paralithic bedrock 41 / Lithic bedrock
489B	Atkinson loam, 1 to 6 percent slopes	1.9	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	41 / Lithic bedrock
491B	Waucoma loam, 2 to 6 percent slopes	2.6	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	55 / Lithic bedrock

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492C	Nasset silt loam, 6 to 12 percent slopes	2.8	Farmland of statewide importance	No	No	Yes	No	No	>5-8	Well drained	>60	44 / Lithic bedrock
493B	Oronoco loam, 2 to 6 percent slopes	5.6	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	>60 / N/A
516B	Dowagiac silt loam, 2 to 6 percent slopes	4.2	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	>60 / N/A
528B	Palms muck, 1 to 6 percent slopes	5.5	Not prime farmland	Yes	Yes	No	Yes	Yes	0-5	Very poorly drained	0	>60 / N/A
593D	Elbaville silt loam, 12 to 18 percent slopes	2.4	Not prime farmland	No	No	Yes	Yes	No	>8-15	Well drained	>60	>60 / N/A
593E	Elbaville silt loam, 18 to 30 percent slopes	1.2	Not prime farmland	No	No	Yes	Yes	No	>15-30	Well drained	>60	>60 / N/A
73F	Bellechester loamy sand, 25 to 45 percent slopes	0.0	Not prime farmland	No	Yes	Yes	Yes	No	>30	Excessively drained	>60	42 / Paralithic bedrock
898F	Brodale-Bellechester complex, 25 to 60 percent slopes	0.1	Not prime farmland	No	No	Yes	Yes	No	>30	Excessively drained	>60	60 / Lithic bedrock
973D	Brodale-Sogn complex, 12 to 25 percent slopes	1.3	Not prime farmland	No	No	Yes	Yes	No	>15-30	Excessively drained	>60	45 / Lithic bedrock
99B	Racine loam, 2 to 5 percent slopes	23.9	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	>60 / N/A
99C	Racine silt loam, 6 to 12 percent slopes	0.9	Farmland of statewide importance	No	No	No	No	No	>5-8	Well drained	42	>60 / N/A
M510A	Maxfield silt loam, 0 to 2 percent slopes	8.0	Prime farmland if drained	Yes	No	No	No	Yes	0-5	Poorly drained	0	>60 / N/A
M517A	Clyde silty clay loam, 0 to 3 percent slopes	1.0	Prime farmland if drained	Yes	No	No	No	Yes	0-5	Poorly drained	0	>60 / N/A
N150E	Brodale channery loam, deep, 20 to 30 percent slopes	3.5	Not prime farmland	No	No	Yes	Yes	No	>15-30	Excessively drained	>60	50 / Lithic bedrock
N501B2	Downs silt loam, 2 to 6 percent slopes, moderately eroded	98.9	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	>60 / N/A
N501C2	Downs silt loam, 6 to 12 percent slopes, moderately eroded	29.9	Farmland of statewide importance	No	No	Yes	No	No	>8-15	Well drained	>60	>60 / N/A
N501D2	Downs silt loam, 12 to 18 percent slopes, moderately eroded	3.0	Not prime farmland	No	No	Yes	Yes	No	>8-15	Well drained	>60	>60 / N/A
N518B	Lindstrom silt loam, 2 to 6 percent slopes	12.1	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	>60 / N/A
N518C	Lindstrom silt loam, 6 to 12 percent slopes	5.5	Farmland of statewide importance	No	No	Yes	No	No	>5-8	Well drained	42	>60 / N/A
N536A	Tama silt loam, driftless, 0 to 2 percent slopes	46.5	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	>60 / N/A
N536B	Tama silt loam, driftless, 2 to 6 percent slopes	67.8	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	>60 / N/A
N536C2	Tama silt loam, driftless, 6 to 12 percent slopes, moderately eroded	29.7	Farmland of statewide importance	No	No	Yes	No	No	>5-8	Well drained	>60	>60 / N/A
Wabasha County, Minnesota (MN157)												
401E	Mt. Carroll silt loam, 18 to 25 percent slopes, moderately eroded	4.3	Not prime farmland	No	No	Yes	Yes	No	>15-30	Well drained	>60	>60 / N/A

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Az	Arenzville silt loam, 0 to 3 percent slopes, occasionally flooded	0.4	All areas are prime farmland	No	No	No	No	No	0-5	Moderately well drained	48	>60 / N/A
BtA	Burkhardt sandy loam, 0 to 2 percent slopes	2.3	Farmland of statewide importance	No	No	No	No	No	0-5	Somewhat excessively drained	>60	>60 / N/A
ChA	Chaseburg silt loam, moderately well drained, 0 to 2 percent slopes	7.6	All areas are prime farmland	No	No	No	No	No	0-5	Moderately well drained	48	>60 / N/A
ChB	Chaseburg silt loam, moderately well drained, 2 to 6 percent slopes	5.8	All areas are prime farmland	No	No	No	No	No	0-5	Moderately well drained	48	>60 / N/A
DgD2	Dodgeville silt loam, shallow, 12 to 18 percent slopes, moderately eroded	0.4	Not prime farmland	No	No	No	Yes	No	>8-15	Well drained	>60	20 / Lithic bedrock
DnC2	Dubuque silt loam, 6 to 12 percent slopes, moderately eroded	1.0	Farmland of statewide importance	No	No	Yes	No	No	>5-8	Well drained	>60	28 / Lithic bedrock
DnD2	Dubuque silt loam, 12 to 18 percent slopes, moderately eroded	6.8	Not prime farmland	No	No	Yes	Yes	No	>8-15	Well drained	>60	28 / Lithic bedrock
DrC2	Dubuque silt loam, shallow, 6 to 12 percent slopes, moderately eroded	0.3	Not prime farmland	No	No	Yes	Yes	No	>5-8	Well drained	>60	18 / Lithic bedrock
DrD2	Dubuque silt loam, shallow, 12 to 18 percent slopes, moderately eroded	3.0	Not prime farmland	No	No	Yes	Yes	No	>8-15	Well drained	>60	18 / Lithic bedrock
DrE	Dubuque silt loam, shallow, 18 to 25 percent slopes	7.0	Not prime farmland	No	No	Yes	Yes	No	>15-30	Well drained	>60	19 / Lithic bedrock
DrF	Dubuque silt loam, shallow, 25 to 35 percent slopes	11.1	Not prime farmland	No	No	Yes	Yes	No	>15-30	Well drained	>60	25 / Lithic bedrock
FaE2	Fayette silt loam, 18 to 35 percent slopes, moderately eroded	0.6	Not prime farmland	No	No	Yes	Yes	No	>15-30	Well drained	>60	>60 / N/A
FbB2	Festina silt loam, 1 to 6 percent slopes, moderately eroded	2.8	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	>60 / N/A
MdC2	Meridian sandy loam, 6 to 12 percent slopes, moderately eroded	0.6	Farmland of statewide importance	No	No	No	No	No	>5-8	Well drained	>60	>60 / N/A
Mn	Minneiska silt loam	1.4	All areas are prime farmland	No	No	No	No	No	0-5	Moderately well drained	30	>60 / N/A
N1155F	Brodale-Bellechester complex, 30 to 60 percent slopes, rocky	1.3	Not prime farmland	No	No	Yes	Yes	No	>30	Excessively drained	>60	>60 / N/A
N518D2	Lindstrom silt loam, 12 to 20 percent slopes, moderately eroded	0.9	Not prime farmland	No	No	Yes	Yes	No	>15-30	Well drained	>60	>60 / N/A
N555B	Tama-Dinsmore complex, 2 to 6 percent slopes	2.9	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	42	>60 / N/A
N555C2	Tama-Dinsmore complex, 6 to 12 percent slopes, moderately eroded	1.4	Farmland of statewide importance	No	No	Yes	No	No	>5-8	Well drained	42	>60 / N/A

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N572D2	Downs-Hersey, bedrock substratum, complex, 12 to 18 percent slopes, moderately eroded	0.1	Not prime farmland	No	No	Yes	Yes	No	>8-15	Well drained	>60	>60 / N/A
N574B	Downs-Hersey complex, 2 to 6 percent slopes	88.9	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	42	>60 / N/A
N574C2	Downs-Hersey complex, 6 to 12 percent slopes, moderately eroded	81.2	Farmland of statewide importance	No	No	Yes	No	No	>8-15	Well drained	42	>60 / N/A
N574D2	Downs-Hersey complex, 12 to 18 percent slopes, moderately eroded	18.9	Not prime farmland	No	No	Yes	Yes	No	>8-15	Well drained	42	>60 / N/A
N584E	Downs silt loam, valleys, 18 to 25 percent slopes	2.6	Not prime farmland	No	No	Yes	Yes	No	>15-30	Well drained	>60	>60 / N/A
N590C2	Tama silt loam, driftless valley, 6 to 12 percent slopes, moderately eroded	4.2	Farmland of statewide importance	No	No	Yes	No	No	>8-15	Well drained	>60	>60 / N/A
N621B	Volney channery silt loam, 2 to 12 percent slopes, occasionally flooded	1.5	Not prime farmland	No	No	No	Yes	No	0-5	Well drained	>60	>60 / N/A
N639F	Frontenac-Lacrescent complex, 20 to 45 percent slopes, rocky	6.0	Not prime farmland	No	No	Yes	Yes	No	>15-30	Well drained	>60	>60 / N/A
N639G	Frontenac-Lacrescent complex, 30 to 70 percent slopes, rocky	9.1	Not prime farmland	No	No	Yes	Yes	No	>30	Well drained	>60	>60 / N/A
N645A	Nodaway-Minneiska complex, 0 to 3 percent slopes, frequently flooded	3.7	Not prime farmland	No	No	No	Yes	No	0-5	Moderately well drained	30	>60 / N/A
N647A	Dunnbot-Scotah complex, 0 to 3 percent slopes, frequently flooded	0.3	Not prime farmland	No	No	No	Yes	No	0-5	Moderately well drained	42	>60 / N/A
ReB	Renova silt loam, 2 to 6 percent slopes	0.3	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	48	>60 / N/A
ReC2	Renova silt loam, 6 to 12 percent slopes, moderately eroded	0.8	Farmland of statewide importance	No	No	No	No	No	>5-8	Well drained	48	>60 / N/A
W	Water	0.9	Not prime farmland	NR	NR	NR	NR	NR	NR	NR	NR	NR / NR
WhB	Whalan silt loam, 2 to 6 percent slopes	5.9	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	31 / Lithic bedrock
WhC2	Whalan silt loam, 6 to 12 percent slopes, moderately eroded	4.4	Farmland of statewide importance	No	No	Yes	No	No	>5-8	Well drained	>60	30 / Lithic bedrock
WsC2	Whalan silt loam, shallow, 6 to 12 percent slopes, moderately eroded	4.4	Not prime farmland	No	No	Yes	Yes	No	>5-8	Well drained	>60	16 / Lithic bedrock
WsD2	Whalan silt loam, shallow, 12 to 18 percent slopes, moderately eroded	4.3	Not prime farmland	No	No	Yes	Yes	No	>8-15	Well drained	>60	15 / Lithic bedrock
Zb	Zumbro loamy fine sand	5.8	Farmland of statewide importance	No	Yes	No	No	No	0-5	Moderately well drained	0	>60 / N/A
	Segment 1 Subtotal	**1,181.5**										

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Map Unit Symbol	Map Unit Name	Proposed ROW (acres)	Farmland Designation [a]	Hydric Soil [a]	Wind Erodible [b]	Water Erodible [c]	Revegetation Concern [d]	Compaction Prone [e]	Slope Range [f]	Drainage Class [a]	Min. Water Table Depth (in) [g]	Depth to Restriction (in) / Kind [h]
Segment 2												
765-kV / 161-kV												
Fillmore County, Minnesota (MN045)												
1078	Anthroportic Udorthents, 2 to 9 percent slopes	2.2	Not prime farmland	NR	No	Yes	Yes	No	>5-8	Moderately well drained	48	>60 / N/A
Ab	Alluvial land, medium textured, well drained	8.1	All areas are prime farmland	No	No	No	No	No	0-5	Moderately well drained	30	>60 / N/A
Ca	Chaseburg and Judson silt loams, 0 to 1 percent slopes	8.3	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	18	>60 / N/A
Cb	Chaseburg and Judson silt loams, 2 to 6 percent slopes	22.2	All areas are prime farmland	No	No	No	No	No	0-5	Moderately well drained	>60	>60 / N/A
Cc	Chelsea and Boone loamy fine sands, 2 to 6 percent slopes	2.6	Not prime farmland	No	Yes	No	Yes	No	0-5	Excessively drained	>60	>60 / N/A
Cg	Clyde silty clay loam, 0 to 3 percent slopes	6.9	Prime farmland if drained	Yes	No	No	No	Yes	0-5	Poorly drained	0	>60 / N/A
Ch	Clyde silty clay loam, overwash	9.1	Prime farmland if drained	Yes	No	No	No	Yes	0-5	Very poorly drained	0	>60 / N/A
Da	Dakota fine sandy loam, 0 to 1 percent slopes	2.0	Farmland of statewide importance	No	No	No	No	No	0-5	Well drained	>60	>60 / N/A
De	Dakota loam, 0 to 1 percent slopes	6.8	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	>60 / N/A
Df	Dakota loam, 2 to 6 percent slopes	0.6	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	>60 / N/A
Dg	Dickinson fine sandy loam, 0 to 6 percent slopes	1.3	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	>60 / N/A
Dh	Dickinson fine sandy loam, 2 to 6 percent slopes	1.5	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	>60 / N/A
Dk	Dickinson fine sandy loam, 7 to 11 percent slopes, moderately eroded	3.2	Not prime farmland	No	No	No	Yes	No	>5-8	Well drained	>60	>60 / N/A
Dl	Dickinson fine sandy loam, loamy substratum, 2 to 6 percent slopes	4.4	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	>60 / N/A
Ds	Dubuque and Whalan silt loams, 2 to 6 percent slopes	4.4	Farmland of statewide importance	No	No	No	No	No	0-5	Well drained	>60	30 / Lithic bedrock
Du	Dubuque and Whalan silt loams, 7 to 11 percent slopes, moderately eroded	1.4	Not prime farmland	No	No	Yes	Yes	No	>5-8	Well drained	>60	30 / Lithic bedrock
Dv	Dubuque and Whalan silt loams, 12 to 17 percent slopes, moderately eroded	14.6	Not prime farmland	No	No	Yes	Yes	No	>8-15	Well drained	>60	30 / Lithic bedrock
Dx	Dubuque and Whalan silt loams, 18 to 45 percent slopes	23.5	Not prime farmland	No	No	Yes	Yes	No	>15-30	Well drained	>60	30 / Lithic bedrock
Fb	Fayette silt loam, 2 to 6 percent slopes	98.4	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	>60 / N/A
Fd	Fayette silt loam, 6 to 12 percent slopes, moderately eroded	69.3	Farmland of statewide importance	No	No	Yes	No	No	>5-8	Well drained	>60	>60 / N/A

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Map Unit Symbol	Map Unit Name	Proposed ROW (acres)	Farmland Designation [a]	Hydric Soil [a]	Wind Erodible [b]	Water Erodible [c]	Revegetation Concern [d]	Compaction Prone [e]	Slope Range [f]	Drainage Class [a]	Min. Water Table Depth (in) [g]	Depth to Restriction (in) / Kind [h]
Ff	Fayette silt loam, 12 to 20 percent slopes, moderately eroded	10.2	Not prime farmland	No	No	Yes	Yes	No	>8-15	Well drained	>60	>60 / N/A
Fh	Fayette silt loam, 18 to 35 percent slopes, moderately eroded	1.5	Not prime farmland	No	No	Yes	Yes	No	>15-30	Well drained	>60	>60 / N/A
Fn	Floyd and Clyde silty clay loams, overwash, 0 to 3 percent slopes	64.5	All areas are prime farmland	Yes	No	No	No	Yes	0-5	Poorly drained	0	>60 / N/A
Ka	Kasson silt loam, 0 to 1 percent slopes	25.6	All areas are prime farmland	No	No	No	No	No	0-5	Moderately well drained	24	>60 / N/A
Kb	Kasson silt loam, 2 to 6 percent slopes	38.8	All areas are prime farmland	No	No	No	No	No	0-5	Moderately well drained	12	>60 / N/A
Kc	Kato silty clay loam	1.3	All areas are prime farmland	Yes	No	No	No	Yes	0-5	Poorly drained	0	>60 / N/A
Kd	Kenyon silt loam, 0 to 1 percent slopes	10.6	All areas are prime farmland	No	No	No	No	No	0-5	Moderately well drained	24	>60 / N/A
Ke	Kenyon silt loam, 2 to 6 percent slopes	17.0	All areas are prime farmland	No	No	No	No	No	0-5	Moderately well drained	48	>60 / N/A
Ld	Lindstrom fine sandy loam, 18 to 45 percent slopes	2.4	Not prime farmland	No	No	Yes	Yes	No	>15-30	Well drained	>60	>60 / N/A
M501A	Klossner muck, depressional, 0 to 1 percent slopes	2.7	Farmland of statewide importance	Yes	Yes	No	No	Yes	0-5	Very poorly drained	0	>60 / N/A
M515A	Tripoli clay loam, 0 to 2 percent slopes	14.0	Prime farmland if drained	Yes	No	No	No	Yes	0-5	Poorly drained	0	>60 / N/A
Ma	Marshan silty clay loam	2.5	Prime farmland if drained	Yes	No	No	No	Yes	0-5	Very poorly drained	0	>60 / N/A
Md	Mixed alluvial land, 0 to 6 percent slopes	1.2	Not prime farmland	Yes	No	NR	No	NR	0-5	NR	0	>60 / N/A
N509F	Bellechester-Etter complex, 18 to 45 percent slopes	3.3	Not prime farmland	No	No	Yes	Yes	No	>15-30	Excessively drained	>60	36 / Paralithic bedrock
N518C2	Lindstrom silt loam, 6 to 12 percent slopes, moderately eroded	0.7	Farmland of statewide importance	No	No	Yes	No	No	>5-8	Well drained	>60	>60 / N/A
N518D2	Lindstrom silt loam, 12 to 20 percent slopes, moderately eroded	2.2	Not prime farmland	No	No	Yes	Yes	No	>15-30	Well drained	>60	>60 / N/A
N531B	Downs-Nasset complex, sinkhole karst, 2 to 6 percent slopes	115.3	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	>60 / N/A
N532C2	Fayette-Pepin complex, sinkhole karst, 6 to 12 percent slopes, moderately eroded	12.0	Farmland of statewide importance	No	No	Yes	No	No	>5-8	Well drained	>60	>60 / N/A
Ra	Racine and Ostrander silt loams, 0 to 2 percent slopes	3.0	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	71	>60 / N/A
Rb	Racine and Ostrander silt loams, 2 to 6 percent slopes	47.1	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	71	>60 / N/A
Rd	Racine and Ostrander silt loams, 7 to 11 percent slopes, moderately eroded	3.3	Farmland of statewide importance	No	No	No	No	No	>5-8	Well drained	42	>60 / N/A

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Re	Racine and Ostrander loams, 12 to 17 percent slopes, moderately eroded	1.0	Not prime farmland	No	No	No	Yes	No	>8-15	Well drained	42	>60 / N/A
Rg	Renova silt loam, 2 to 6 percent slopes	21.0	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	42	>60 / N/A
Rk	Renova silt loam, 7 to 11 percent slopes, moderately eroded	2.5	Farmland of statewide importance	No	No	Yes	No	No	>5-8	Well drained	42	>60 / N/A
Rl	Renova loam, 12 to 17 percent slopes, moderately eroded	0.0	Not prime farmland	No	No	Yes	Yes	No	>8-15	Well drained	42	>60 / N/A
Rm	Rockton and Dodgeville silt loams, shallow, 2 to 6 percent slopes	2.3	Farmland of statewide importance	No	No	No	Yes	No	0-5	Well drained	>60	18 / Lithic bedrock
Ro	Rockton and Dodgeville silt loams, shallow, 7 to 11 percent slopes, moderately eroded	6.1	Not prime farmland	No	No	Yes	Yes	No	>5-8	Well drained	>60	18 / Lithic bedrock
Rp	Rockton and Dodgeville silt loams, shallow, 12 to 17 percent slopes, moderately eroded	0.8	Not prime farmland	No	No	Yes	Yes	No	>8-15	Well drained	>60	18 / Lithic bedrock
Sa	Schapville silty clay loam, 2 to 6 percent slopes	2.6	All areas are prime farmland	No	No	No	No	Yes	0-5	Somewhat poorly drained	18	37 / Paralithic bedrock
Sb	Schapville silty clay loam, 7 to 11 percent slopes, moderately eroded	5.2	Not prime farmland	No	No	No	No	No	>5-8	Moderately well drained	24	25 / Paralithic bedrock
Sg	Skyberg silt loam, 0 to 3 percent slopes	19.9	Prime farmland if drained	No	No	No	No	Yes	0-5	Somewhat poorly drained	12	>60 / N/A
Ta	Tama-Downs complex, driftless, 0 to 2 percent slopes	3.8	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	>60 / N/A
Tb	Tama-Downs complex, driftless, 2 to 6 percent slopes	128.7	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	>60 / N/A
Te	Tama-Downs complex, driftless, 6 to 12 percent slopes, moderately eroded	27.5	Farmland of statewide importance	No	No	Yes	No	No	>5-8	Well drained	>60	>60 / N/A
Tg	Tama-Downs complex, driftless, 12 to 18 percent slopes, moderately eroded	3.1	Not prime farmland	No	No	Yes	Yes	No	>8-15	Well drained	>60	>60 / N/A
Tp	Mantorville and Wykoff sandy loams, 2 to 6 percent slopes	5.0	Farmland of statewide importance	No	No	No	No	No	0-5	Somewhat excessively drained	>60	>60 / N/A
Tr	Mantorville and Wykoff sandy loams, 7 to 11 percent slopes, moderately eroded	0.3	Not prime farmland	No	No	No	Yes	No	>5-8	Somewhat excessively drained	>60	>60 / N/A
W	Water	0.0	Not prime farmland	NR	NR	NR	NR	NR	NR	NR	NR	NR / NR
Houston County, Minnesota (MN055)												
1010	Riverwash	0.2	Not prime farmland	NR	No	NR	No	NR	0-5	NR	18	>60 / N/A
1016	Udorthents, loamy	1.2	Not prime farmland	No	No	No	No	No	0-5	Well drained	>60	>60 / N/A
131B	Massbach silt loam, 3 to 6 percent slopes	2.1	All areas are prime farmland	No	No	No	No	No	0-5	Moderately well drained	30	50 / Paralithic bedrock

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131C	Massbach silt loam, 6 to 12 percent slopes	6.5	Farmland of statewide importance	No	No	Yes	No	No	>5-8	Moderately well drained	42	45 / Paralithic bedrock
16	Arenzville silt loam, 0 to 3 percent slopes, occasionally flooded	0.8	All areas are prime farmland	No	No	No	No	No	0-5	Moderately well drained	48	>60 / N/A
1830	Eitzen silt loam, occasionally flooded	19.9	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	48	>60 / N/A
1847	Kalmarville fine sandy loam, channeled	1.1	Not prime farmland	Yes	No	No	Yes	No	0-5	Poorly drained	0	>60 / N/A
1856D	Plainfield loamy fine sand, loamy substratum, 12 to 25 percent slopes	6.5	Not prime farmland	No	Yes	Yes	Yes	No	>15-30	Somewhat excessively drained	>60	>60 / N/A
1856E	Plainfield loamy fine sand, loamy substratum, 25 to 50 percent slopes	0.3	Not prime farmland	No	Yes	Yes	Yes	No	>30	Somewhat excessively drained	>60	>60 / N/A
1857B	Eitzen silt loam, channeled, 1 to 6 percent slopes	6.9	Not prime farmland	No	No	No	Yes	No	0-5	Well drained	48	>60 / N/A
1860	Comfrey silty clay loam, channeled	18.7	Not prime farmland	Yes	No	No	Yes	Yes	0-5	Poorly drained	0	>60 / N/A
1898F	Etter-Brodale complex, rocky, 25 to 50 percent slopes	12.0	Not prime farmland	No	No	Yes	Yes	No	>30	Well drained	>60	>60 / N/A
1906D	Lindstrom loam, 12 to 20 percent slopes	1.6	Not prime farmland	No	No	Yes	Yes	No	>15-30	Well drained	>60	>60 / N/A
194	Huntsville silt loam, occasionally flooded	2.3	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	48	>60 / N/A
273	Muscatine silt loam	0.4	All areas are prime farmland	No	No	No	No	Yes	0-5	Somewhat poorly drained	18	>60 / N/A
312B	Shullsburg silt loam, 1 to 6 percent slopes	1.6	Farmland of statewide importance	No	No	No	No	Yes	0-5	Somewhat poorly drained	18	22 / Paralithic bedrock
312C	Shullsburg silt loam, 6 to 12 percent slopes	4.6	Farmland of statewide importance	No	No	No	No	Yes	>5-8	Somewhat poorly drained	18	22 / Paralithic bedrock
388C2	Churchtown silt loam, 6 to 12 percent slopes, moderately eroded	1.0	Farmland of statewide importance	No	No	Yes	No	No	>8-15	Well drained	>60	>60 / N/A
388E	Churchtown silt loam, 20 to 30 percent slopes, moderately eroded	0.6	Not prime farmland	No	No	Yes	Yes	No	>15-30	Well drained	>60	>60 / N/A
388F	Seaton loam, valleys, 30 to 45 percent slopes	3.2	Not prime farmland	No	No	Yes	Yes	No	>30	Well drained	>60	>60 / N/A
457E	Lacrescent flaggy silt loam, 20 to 35 percent slopes	7.8	Not prime farmland	No	No	Yes	Yes	No	>15-30	Well drained	>60	>60 / N/A
457G	Lacrescent cobbly silty clay loam, 45 to 70 percent slopes	29.1	Not prime farmland	No	No	Yes	Yes	No	>30	Well drained	>60	>60 / N/A
471	Root silt loam	2.0	Not prime farmland	Yes	No	No	Yes	Yes	0-5	Poorly drained	0	>60 / N/A
476B	Frankville silt loam, 3 to 6 percent slopes	3.6	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	48 / Lithic bedrock
476C2	Frankville silt loam, 6 to 12 percent slopes, eroded	8.6	Farmland of statewide importance	No	No	Yes	No	No	>5-8	Well drained	>60	35 / Lithic bedrock
476D	Frankville silt loam, 12 to 20 percent slopes	15.7	Not prime farmland	No	No	Yes	Yes	No	>15-30	Well drained	>60	35 / Lithic bedrock

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484D	Eyota sandy loam, 12 to 20 percent slopes	1.3	Not prime farmland	No	No	Yes	Yes	No	>15-30	Well drained	>60	>60 / N/A
492B	Nasset silt loam, 3 to 6 percent slopes	2.8	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	>60 / N/A
492C	Nasset silt loam, 6 to 12 percent slopes	12.3	Farmland of statewide importance	No	No	Yes	No	No	>5-8	Well drained	>60	>60 / N/A
500C2	Edmund silt loam, 4 to 12 percent slopes, eroded	6.2	Not prime farmland	No	No	Yes	Yes	No	>5-8	Well drained	18	36 / Lithic bedrock
500D2	Edmund silt loam, 12 to 20 percent slopes, eroded	11.8	Not prime farmland	No	No	Yes	Yes	No	>15-30	Well drained	>60	36 / Lithic bedrock
577	Newalbin silt loam, channeled	3.9	Not prime farmland	Yes	No	No	Yes	Yes	0-5	Poorly drained	0	>60 / N/A
580B	Blackhammer-Southridge complex, 2 to 6 percent slopes	6.9	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	>60 / N/A
580C2	Blackhammer-Southridge complex, 6 to 12 percent slopes, moderately eroded	24.7	Farmland of statewide importance	No	No	Yes	No	No	>8-15	Well drained	>60	>60 / N/A
580D2	Blackhammer-Southridge complex, 12 to 20 percent slopes, moderately eroded	21.9	Not prime farmland	No	No	Yes	Yes	No	>15-30	Well drained	>60	>60 / N/A
584F	Lamoille-Dorerton silt loams, 30 to 45 percent slopes	22.0	Not prime farmland	No	No	Yes	Yes	No	>30	Well drained	>60	>60 / N/A
585C	Newhouse-Valton silt loams, 6 to 12 percent slopes	1.9	Farmland of statewide importance	No	No	Yes	No	No	>5-8	Well drained	>60	>60 / N/A
585D	Newhouse-Valton silt loams, 12 to 20 percent slopes	10.0	Not prime farmland	No	No	Yes	Yes	No	>15-30	Well drained	>60	>60 / N/A
586C2	Nodine-Rollingstone silt loams, 4 to 12 percent slopes, eroded	7.4	Farmland of statewide importance	No	No	Yes	No	No	>5-8	Well drained	>60	>60 / N/A
586D2	Nodine-Rollingstone silt loams, 12 to 20 percent slopes, eroded	51.9	Not prime farmland	No	No	Yes	Yes	No	>15-30	Well drained	>60	>60 / N/A
592E	Lamoille-Elbaville silt loams, 20 to 30 percent slopes	64.7	Not prime farmland	No	No	Yes	Yes	No	>15-30	Well drained	>60	>60 / N/A
593F	Elbaville silt loam, 30 to 45 percent slopes	9.7	Not prime farmland	No	No	Yes	Yes	No	>30	Well drained	>60	>60 / N/A
598B	Beavercreek-Arenzville complex, 1 to 12 percent slopes	8.9	Not prime farmland	No	No	No	Yes	No	>5-8	Well drained	>60	>60 / N/A
604	Huntsville-Beavercreek silt loams, channeled	1.9	Not prime farmland	No	No	No	No	No	0-5	Well drained	>60	>60 / N/A
606	Shiloh silty clay, ponded	15.8	Not prime farmland	Yes	No	No	Yes	Yes	0-5	Very poorly drained	0	>60 / N/A
N1155F	Brodale-Bellechester complex, 30 to 60 percent slopes, rocky	10.2	Not prime farmland	No	No	Yes	Yes	No	>30	Excessively drained	>60	>60 / N/A
N501B2	Downs silt loam, 2 to 6 percent slopes, moderately eroded	21.9	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	>60 / N/A
N501C2	Downs silt loam, 6 to 12 percent slopes, moderately eroded	49.3	Farmland of statewide importance	No	No	Yes	No	No	>8-15	Well drained	>60	>60 / N/A
N518B	Lindstrom silt loam, 2 to 6 percent slopes	6.7	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	>60 / N/A
N518C	Lindstrom silt loam, 6 to 12 percent slopes	4.5	Farmland of statewide importance	No	No	Yes	No	No	>5-8	Well drained	42	>60 / N/A
N536A	Tama silt loam, driftless, 0 to 2 percent slopes	4.6	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	>60 / N/A
N536B	Tama silt loam, driftless, 2 to 6 percent slopes	35.5	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	>60 / N/A

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N536C2	Tama silt loam, driftless, 6 to 12 percent slopes, moderately eroded	6.8	Farmland of statewide importance	No	No	Yes	No	No	>5-8	Well drained	>60	>60 / N/A
N583B	Fayette silt loam, 2 to 6 percent slopes	30.8	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	>60 / N/A
N583C2	Fayette silt loam, 6 to 12 percent slopes, moderately eroded	21.9	Farmland of statewide importance	No	No	Yes	No	No	>5-8	Well drained	>60	>60 / N/A
N583D2	Fayette silt loam, 12 to 20 percent slopes, moderately eroded	2.6	Not prime farmland	No	No	Yes	Yes	No	>8-15	Well drained	>60	>60 / N/A
N621B	Volney channery silt loam, 2 to 12 percent slopes, occasionally flooded	0.6	Not prime farmland	No	No	No	Yes	No	0-5	Well drained	>60	>60 / N/A
W	Water	19.6	Not prime farmland	NR	NR	NR	NR	NR	NR	NR	NR	NR / NR
Mower County, Minnesota (MN099)												
1030	Pits, sand and gravel	0.0	Not prime farmland	NR	NR	NR	NR	NR	>5-8	NR	NR	NR / NR
1812	Fort Dodge silt loam, 0 to 2 percent slopes	2.0	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	>60 / N/A
1841	Hayfield loam, loamy substratum	4.2	All areas are prime farmland	No	No	No	No	No	0-5	Somewhat poorly drained	30	>60 / N/A
1844	Atkinson loam	0.7	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	>60 / N/A
1884	Stateline silt loam	8.2	Prime farmland if drained	Yes	No	No	No	Yes	0-5	Poorly drained	0	>60 / N/A
1891	Faxon variant silty clay loam	5.2	Prime farmland if drained	Yes	No	No	No	Yes	0-5	Poorly drained	0	>60 / N/A
190	Hayfield loam	11.8	All areas are prime farmland	No	No	No	No	No	0-5	Somewhat poorly drained	0	>60 / N/A
1904	Udolpho silt loam, loamy substratum	13.1	Prime farmland if drained	Yes	No	No	No	Yes	0-5	Poorly drained	0	>60 / N/A
1974	Coland, frequently flooded-Spillville, occasionally flooded complex, 0 to 2 percent slopes	4.9	Not prime farmland	Yes	No	No	Yes	Yes	0-5	Poorly drained	0	>60 / N/A
1992	Sargeant variant silt loam	6.3	Prime farmland if drained	Yes	No	No	No	Yes	0-5	Poorly drained	0	>60 / N/A
23	Skyberg silt loam, 0 to 3 percent slopes	44.9	Prime farmland if drained	No	No	No	No	Yes	0-5	Somewhat poorly drained	12	>60 / N/A
244A	Lilah sandy loam, 0 to 2 percent slopes	1.0	Not prime farmland	No	No	No	Yes	No	0-5	Excessively drained	>60	>60 / N/A
244B	Lilah sandy loam, 2 to 6 percent slopes	1.4	Not prime farmland	No	No	No	Yes	No	0-5	Excessively drained	>60	>60 / N/A
24B	Kasson silt loam, 1 to 4 percent slopes	28.4	All areas are prime farmland	No	No	No	No	No	0-5	Moderately well drained	24	>60 / N/A
252	Marshan clay loam, 0 to 2 percent slopes, rarely flooded	0.4	Prime farmland if drained	Yes	No	No	No	Yes	0-5	Poorly drained	0	>60 / N/A
2A	Ostrander loam, 0 to 2 percent slopes	5.7	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	>60 / N/A

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Map Unit Symbol	Map Unit Name	Proposed ROW (acres)	Farmland Designation [a]	Hydric Soil [a]	Wind Erodible [b]	Water Erodible [c]	Revegetation Concern [d]	Compaction Prone [e]	Slope Range [f]	Drainage Class [a]	Min. Water Table Depth (in) [g]	Depth to Restriction (in) / Kind [h]
2B	Ostrander loam, 2 to 5 percent slopes	13.9	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	>60 / N/A
30B	Kenyon silt loam, 2 to 6 percent slopes	8.5	All areas are prime farmland	No	No	No	No	No	0-5	Moderately well drained	48	>60 / N/A
313	Spillville loam, 0 to 2 percent slopes, occasionally flooded	3.9	All areas are prime farmland	No	No	No	No	No	0-5	Somewhat poorly drained	12	>60 / N/A
334B	Vlasaty silt loam, 1 to 4 percent slopes	2.5	All areas are prime farmland	No	No	No	No	No	0-5	Moderately well drained	18	>60 / N/A
377	Merton silt loam	5.5	All areas are prime farmland	No	No	No	No	No	0-5	Moderately well drained	24	>60 / N/A
393	Udolpho silt loam	4.1	Prime farmland if drained	Yes	No	No	No	Yes	0-5	Poorly drained	0	>60 / N/A
465	Kalmarville loam, frequently flooded	1.2	Not prime farmland	Yes	No	No	Yes	No	0-5	Poorly drained	0	>60 / N/A
479	Floyd silt loam, 1 to 4 percent slopes	57.4	All areas are prime farmland	No	No	No	No	Yes	0-5	Somewhat poorly drained	12	>60 / N/A
483A	Waukee loam, 0 to 2 percent slopes	6.3	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	33 / Strongly contrasting textural stratification
483B	Waukee loam, 2 to 5 percent slopes	1.0	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	33 / Strongly contrasting textural stratification
485	Lawler silt loam	1.1	All areas are prime farmland	No	No	No	No	Yes	0-5	Somewhat poorly drained	24	>60 / N/A
516A	Dowagiac loam, 0 to 2 percent slopes	8.6	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	>60 / N/A
516B	Dowagiac loam, 2 to 6 percent slopes	7.9	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	>60 / N/A
517	Shandep clay loam	9.7	Prime farmland if drained	Yes	No	No	No	Yes	0-5	Very poorly drained	0	>60 / N/A
539	Palms muck	3.0	Farmland of statewide importance	Yes	Yes	No	No	Yes	0-5	Very poorly drained	0	>60 / N/A
631	Oran silt loam, 1 to 4 percent slopes	93.2	All areas are prime farmland	No	No	No	No	Yes	0-5	Somewhat poorly drained	12	>60 / N/A
632	Kensett variant silt loam	2.2	All areas are prime farmland	No	No	No	No	Yes	0-5	Somewhat poorly drained	24	>60 / N/A
634	Protivin silt loam	9.7	All areas are prime farmland	No	No	No	No	Yes	0-5	Somewhat poorly drained	24	>60 / N/A
635	Riceville silt loam	11.9	Prime farmland if drained	No	No	No	No	Yes	0-5	Somewhat poorly drained	24	>60 / N/A

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637	Schley silt loam	28.9	Prime farmland if drained	No	No	No	No	Yes	0-5	Somewhat poorly drained	12	>60 / N/A
638B	Taopi silt loam, 1 to 6 percent slopes	13.8	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	>60 / N/A
638C	Taopi silt loam, 6 to 12 percent slopes	1.8	Farmland of statewide importance	No	No	No	No	No	>5-8	Well drained	>60	>60 / N/A
699A	Rossfield silt loam, 0 to 2 percent slopes	2.7	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	>60 / N/A
88	Clyde silty clay loam, 0 to 3 percent slopes	126.2	Prime farmland if drained	Yes	No	No	No	Yes	0-5	Poorly drained	0	>60 / N/A
99A	Racine silt loam, 0 to 2 percent slopes	6.1	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	>60 / N/A
99B	Racine loam, 2 to 5 percent slopes	9.2	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	>60 / N/A
99C	Racine silt loam, 6 to 12 percent slopes	1.6	Farmland of statewide importance	No	No	No	No	No	>5-8	Well drained	>60	>60 / N/A
M511A	Readlyn silt loam, 1 to 3 percent slopes	89.3	All areas are prime farmland	No	No	No	No	Yes	0-5	Somewhat poorly drained	12	>60 / N/A
M515A	Tripoli clay loam, 0 to 2 percent slopes	181.9	Prime farmland if drained	Yes	No	No	No	Yes	0-5	Poorly drained	0	>60 / N/A
Olmsted County, Minnesota (MN109)												
1030	Pits, sand and gravel	2.8	Not prime farmland	NR	NR	NR	NR	NR	>5-8	NR	NR	NR / NR
1812B	Terril loam, sandy substratum, 1 to 6 percent slopes	1.0	All areas are prime farmland	No	No	No	No	No	0-5	Moderately well drained	30	>60 / N/A
1846	Kato silty clay loam, depressional	8.0	Prime farmland if drained	Yes	No	No	No	Yes	0-5	Very poorly drained	0	>60 / N/A
19	Chaseburg silt loam, moderately well drained, 0 to 2 percent slopes	7.1	All areas are prime farmland	No	No	No	No	No	0-5	Moderately well drained	48	>60 / N/A
203	Joy silt loam, 1 to 4 percent slopes	2.1	All areas are prime farmland	No	No	No	No	Yes	0-5	Somewhat poorly drained	0	>60 / N/A
209B	Kegonsa silt loam, 2 to 6 percent slopes	2.4	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	>60 / N/A
216B	Lamont sandy loam, 2 to 6 percent slopes	1.3	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	>60 / N/A
23	Skyberg silt loam, 0 to 3 percent slopes	1.4	Prime farmland if drained	No	No	No	No	Yes	0-5	Somewhat poorly drained	12	>60 / N/A
25	Becker loam	1.5	All areas are prime farmland	No	No	No	No	No	0-5	Moderately well drained	30	>60 / N/A
252	Marshan silt loam	1.3	Prime farmland if drained	Yes	No	No	No	Yes	0-5	Poorly drained	0	>60 / N/A
27B	Dickinson sandy loam, 2 to 6 percent slopes	0.5	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	>60 / N/A
299A	Rockton loam, 0 to 1 percent slopes	1.4	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	31 / Lithic bedrock
299B	Rockton loam, 1 to 6 percent slopes	2.4	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	31 / Lithic bedrock
2A	Ostrander silt loam, 0 to 2 percent slopes	6.3	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	12	>60 / N/A

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2B	Ostrander loam, 2 to 5 percent slopes	0.3	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	>60 / N/A
30B	Kenyon loam, 2 to 5 percent slopes	3.5	All areas are prime farmland	No	No	No	No	No	0-5	Moderately well drained	48	>60 / N/A
313	Spillville silt loam	0.8	All areas are prime farmland	No	No	No	No	No	0-5	Moderately well drained	30	>60 / N/A
322C2	Timula silt loam, 6 to 12 percent slopes, moderately eroded	3.1	Farmland of statewide importance	No	No	Yes	No	No	>5-8	Well drained	>60	>60 / N/A
322D2	Timula silt loam, 12 to 20 percent slopes, moderately eroded	5.1	Not prime farmland	No	No	Yes	Yes	No	>15-30	Well drained	>60	>60 / N/A
340C	Whalan loam, 6 to 12 percent slopes	1.5	Farmland of statewide importance	No	No	No	No	No	>5-8	Well drained	>60	27 / Lithic bedrock
369B	Waubeek silt loam, 1 to 6 percent slopes	0.5	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	>60 / N/A
468	Otter silt loam, channeled	7.8	Not prime farmland	Yes	No	No	Yes	Yes	0-5	Poorly drained	0	>60 / N/A
471	Root silt loam	2.0	Not prime farmland	Yes	No	No	Yes	Yes	0-5	Poorly drained	0	>60 / N/A
472B	Channahon loam, 1 to 6 percent slopes	2.7	Farmland of statewide importance	No	No	No	No	No	0-5	Well drained	>60	15 / Lithic bedrock
472C	Channahon loam, 6 to 12 percent slopes	6.9	Not prime farmland	No	No	No	Yes	No	>5-8	Well drained	>60	13 / Lithic bedrock
473D	Dorerton loam, 12 to 25 percent slopes	0.0	Not prime farmland	No	No	Yes	Yes	No	>15-30	Well drained	>60	>60 / N/A
476C	Frankville silt loam, 6 to 12 percent slopes	3.6	Farmland of statewide importance	No	No	Yes	No	No	>5-8	Well drained	>60	37 / Lithic bedrock
477B	Littleton silt loam, 1 to 4 percent slopes	1.3	All areas are prime farmland	No	No	No	No	Yes	0-5	Somewhat poorly drained	18	>60 / N/A
479	Floyd silt loam, 1 to 4 percent slopes	25.4	All areas are prime farmland	No	No	No	No	Yes	0-5	Somewhat poorly drained	12	>60 / N/A
483B	Waukee loam, 2 to 5 percent slopes	1.1	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	33 / Strongly contrasting textural stratification
484C	Eyota sandy loam, 6 to 12 percent slopes	0.5	Farmland of statewide importance	No	No	No	No	No	>5-8	Well drained	>60	>60 / N/A
485	Lawler loam	8.0	All areas are prime farmland	No	No	No	No	No	0-5	Somewhat poorly drained	18	>60 / N/A
486	Marshan silt loam, depressional	1.8	Prime farmland if drained	Yes	No	No	No	Yes	0-5	Very poorly drained	0	>60 / N/A
489A	Atkinson loam, 0 to 1 percent slopes	5.4	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	34 / Paralithic bedrock 41 / Lithic bedrock
489B	Atkinson loam, 1 to 6 percent slopes	3.7	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	41 / Lithic bedrock
491B	Waucoma loam, 2 to 6 percent slopes	4.0	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	55 / Lithic bedrock
493B	Oronoco loam, 2 to 6 percent slopes	0.8	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	>60 / N/A

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493C	Oronoco loam, 6 to 12 percent slopes	1.8	Farmland of statewide importance	No	No	No	No	No	>5-8	Well drained	>60	>60 / N/A
493D	Oronoco fine sandy loam, 12 to 18 percent slopes	1.2	Not prime farmland	No	No	No	Yes	No	>8-15	Well drained	>60	>60 / N/A
516C	Dowagiac sandy loam, 6 to 12 percent slopes	1.9	Farmland of statewide importance	No	No	No	No	No	>5-8	Well drained	>60	>60 / N/A
593D	Elbaville silt loam, 12 to 18 percent slopes	1.3	Not prime farmland	No	No	Yes	Yes	No	>8-15	Well drained	>60	>60 / N/A
99B	Racine loam, 2 to 5 percent slopes	21.5	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	>60 / N/A
99C	Racine silt loam, 6 to 12 percent slopes	4.6	Farmland of statewide importance	No	No	No	No	No	>5-8	Well drained	42	>60 / N/A
M517A	Clyde silty clay loam, 0 to 3 percent slopes	15.0	Prime farmland if drained	Yes	No	No	No	Yes	0-5	Poorly drained	0	>60 / N/A
N150E	Brodale channery loam, deep, 20 to 30 percent slopes	1.7	Not prime farmland	No	No	Yes	Yes	No	>15-30	Excessively drained	>60	50 / Lithic bedrock
N501B2	Downs silt loam, 2 to 6 percent slopes, moderately eroded	28.7	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	>60 / N/A
N501C2	Downs silt loam, 6 to 12 percent slopes, moderately eroded	19.3	Farmland of statewide importance	No	No	Yes	No	No	>8-15	Well drained	>60	>60 / N/A
N501D2	Downs silt loam, 12 to 18 percent slopes, moderately eroded	0.9	Not prime farmland	No	No	Yes	Yes	No	>8-15	Well drained	>60	>60 / N/A
N518B	Lindstrom silt loam, 2 to 6 percent slopes	4.2	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	>60 / N/A
N536A	Tama silt loam, driftless, 0 to 2 percent slopes	7.0	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	>60 / N/A
N536B	Tama silt loam, driftless, 2 to 6 percent slopes	14.3	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	>60 / N/A
N536C2	Tama silt loam, driftless, 6 to 12 percent slopes, moderately eroded	3.6	Farmland of statewide importance	No	No	Yes	No	No	>5-8	Well drained	>60	>60 / N/A
W	Water	0.3	Not prime farmland	NR	NR	NR	NR	NR	NR	NR	NR	NR / NR
	Segment 2 Subtotal	**2,666.3**										
Q-9 161-kV												
Houston County, Minnesota (MN055)												
580B	Blackhammer-Southridge complex, 2 to 6 percent slopes	1.2	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	>60 / N/A
580C2	Blackhammer-Southridge complex, 6 to 12 percent slopes, moderately eroded	4.8	Farmland of statewide importance	No	No	Yes	No	No	>8-15	Well drained	>60	>60 / N/A
580D2	Blackhammer-Southridge complex, 12 to 20 percent slopes, moderately eroded	1.8	Not prime farmland	No	No	Yes	Yes	No	>15-30	Well drained	>60	>60 / N/A
584F	Lamoille-Dorerton silt loams, 30 to 45 percent slopes	0.8	Not prime farmland	No	No	Yes	Yes	No	>30	Well drained	>60	>60 / N/A
586D2	Nodine-Rollingstone silt loams, 12 to 20 percent slopes, eroded	2.2	Not prime farmland	No	No	Yes	Yes	No	>15-30	Well drained	>60	>60 / N/A
592E	Lamoille-Elbaville silt loams, 20 to 30 percent slopes	1.8	Not prime farmland	No	No	Yes	Yes	No	>15-30	Well drained	>60	>60 / N/A
598B	Beavercreek-Arenzville complex, 1 to 12 percent slopes	0.2	Not prime farmland	No	No	No	Yes	No	>5-8	Well drained	>60	>60 / N/A

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N583B	Fayette silt loam, 2 to 6 percent slopes	1.9	All areas are prime farmland	No	No	No	No	No	0-5	Well drained	>60	>60 / N/A
	Q-9 161-kV Subtotal	**14.7**										
	PROJECT TOTAL	**3,862.5**										

Source: Soil Survey Staff, 2026.
Notes: NR = Not Rated

[a] Obtained directly by query of the Soil Survey Geographic geospatial database.
[b] Includes soils in wind erodibility groups 1 and 2.
[c] Includes soils with a slope >15 percent or soils with a K value of >0.35 and slopes > 5 percent.
[d] Includes soils with a non-irrigated land capability classification of 4 or greater.
[e] Includes soils that are somewhat poorly drained to very poorly drained soils in loamy sands and finer textural classes.
[f] Representative slope values are taken directly from the SSURGO database. The SSURGO database provides representative slope values for all component soil series. Slope classes represent the slope class grouping in percent that contains the representative slope value for a major component soil series. For example, a soil mapped in the 2-6% slope class has an average slope of 4%, which is within the 0-5% slope range.
[g] Annual minimum water table depth values are taken directly from the SSURGO database, converted from centimeters to inches.
[h] Depth to restrictive layer values are taken directly from the SSURGO database. If no restrictive layer is described in a map unit, it is represented by the >60 depth class.