

CapX2020
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0 1,000 2,000 Feet
1:24,000

Data Source: Please refer to Section 12

- Existing Substations**
- 69 kV - Existing
 - 115 kV - Existing
 - 230 kV - Existing
 - 345 kV - Existing
 - 69 kV - Proposed
 - 115 kV - Proposed
 - 230 kV - Proposed

- Cemetery
- Churches
- Parks and Recreation
- Aggregate Locations
- FCC Telecom Tower
- Certified Organic Farm
- Scenic Byway
- Planned MN DOT Upgrades
- Existing Pipeline

- Trails**
- Existing State & Regional Trail
 - Regional Planned & Proposed Trail
 - Snowmobile Trail
- MCBS Biodiversity Significance**
- Moderate Significance
 - High Significance
 - Outstanding Significance

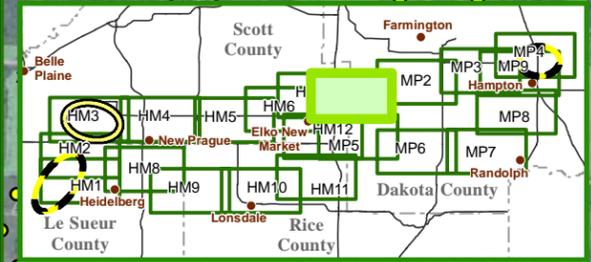
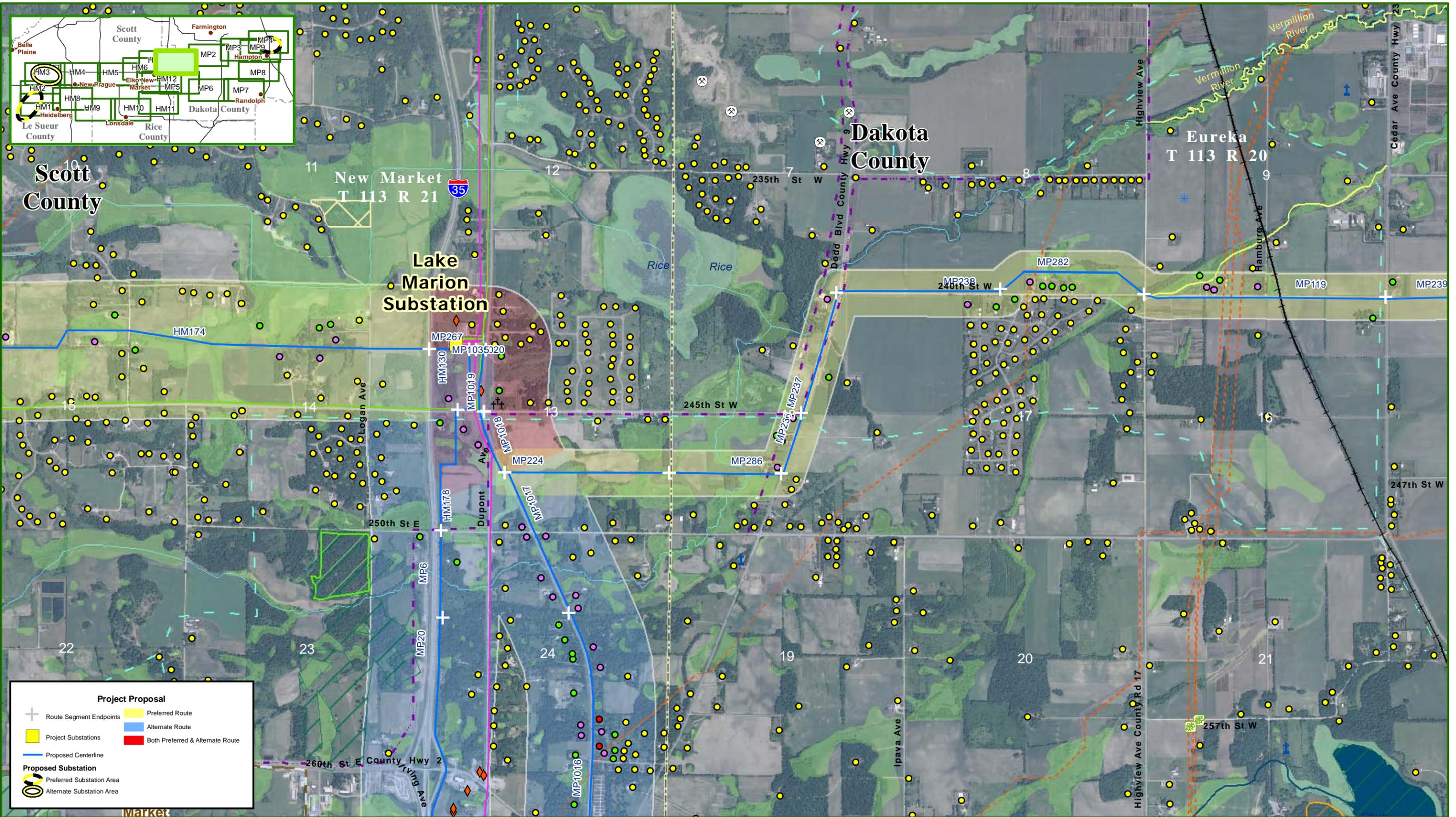
- Homes (from Proposed Centerline)**
- 75 - 150 ft
 - 150 - 300 ft
 - 300 - 500 ft
 - over 500 ft

- MN State Wild and Scenic River**
- Scenic
 - Recreational
- Hydrography and Wetlands**
- NWI Wetland
 - PWI Water
 - MN Trout Streams
 - Impaired Waters

- USFWS Easement
 - MN SNA
 - Metro Park
 - Metro Significant
 - USFWS WPA
 - USFWS NWR
- MN WMA**
- State Funded
 - Federally Funded

Appendix B.6 - Sheet HM12
Helena Substation to
Lake Marion Substation
Detailed Route Maps

Route Permit
Brookings County - Hampton
345 kV Transmission Line



Project Proposal

- Route Segment Endpoints
- Project Substations
- Proposed Centerline
- Proposed Substation
 - Preferred Substation Area
 - Alternate Substation Area
- Preferred Route
- Alternate Route
- Both Preferred & Alternate Route

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Transmission Lines

- 69 kV - Existing
- 115 kV - Existing
- 230 kV - Existing
- 345 kV - Existing
- 69 kV - Proposed
- 115 kV - Proposed
- 230 kV - Proposed

- Cemetery
- Churches
- Parks and Recreation
- Aggregate Locations
- FCC Telecom Tower
- Certified Organic Farm
- Scenic Byway
- Planned MN DOT Upgrades
- Existing Pipeline

Trails

- Existing State & Regional Trail
- Regional Planned & Proposed Trail
- Snowmobile Trail

MCBS Biodiversity Significance

- Moderate Significance
- High Significance
- Outstanding Significance

Homes (from Proposed Centerline)

- 75 - 150 ft
- 150 - 300 ft
- 300 - 500 ft
- over 500 ft

MN State Wild and Scenic River

- Scenic
- Recreational

Hydrography and Wetlands

- NWI Wetland
- PWI Water
- MN Trout Streams
- Impaired Waters

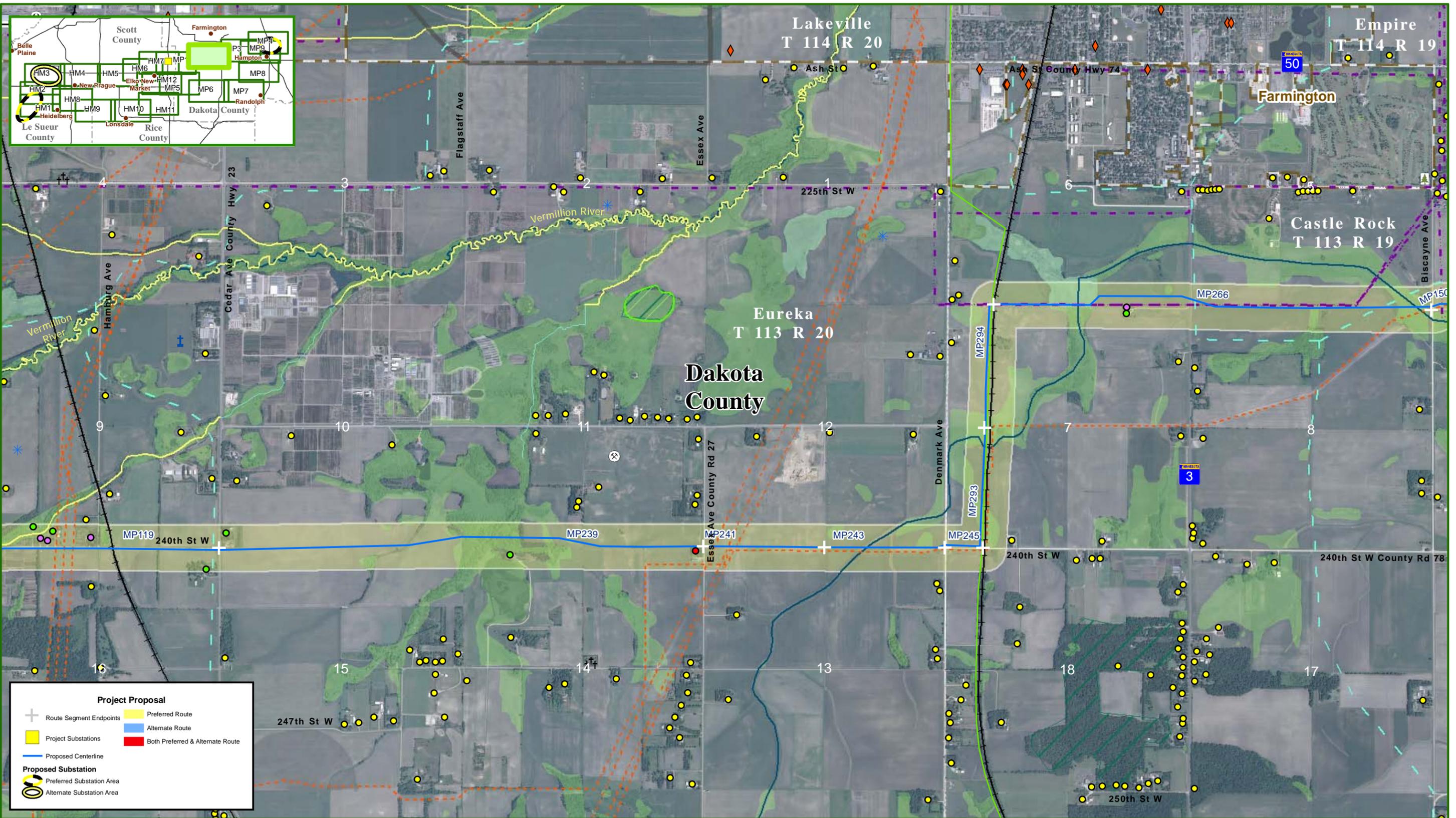
- USFWS Easement
- MN SNA
- Metro Park
- Metro Significant
- USFWS WPA
- USFWS NWR
- MN WMA
 - State Funded
 - Federally Funded

Appendix B.6 - Sheet MP1
Lake Marion Substation to
Hampton Substation
Detailed Route Maps

Route Permit
Brookings County - Hampton
345 kV Transmission Line

mxdRoute_PermitAppendixB6SheetMap_11x17_L_detailed_routes.mxd 11/23/2008

Data Source: Please refer to Section 12



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Data Source: Please refer to Section 12

- Transmission Lines**
- 69 kV - Existing
 - 115 kV - Existing
 - 230 kV - Existing
 - 345 kV - Existing
 - 69 kV - Proposed
 - 115 kV - Proposed
 - 230 kV - Proposed

- Cemetery
- Churches
- Parks and Recreation
- Aggregate locations
- FCC Telecom Tower
- Certified Organic Farm
- Scenic Byway
- Planned MN DOT Upgrades
- Existing Pipeline

- Trails**
- Existing State & Regional Trail
 - Regional Planned & Proposed Trail
 - Snowmobile Trail
- MCBS Biodiversity Significance**
- Moderate Significance
 - High Significance
 - Outstanding Significance

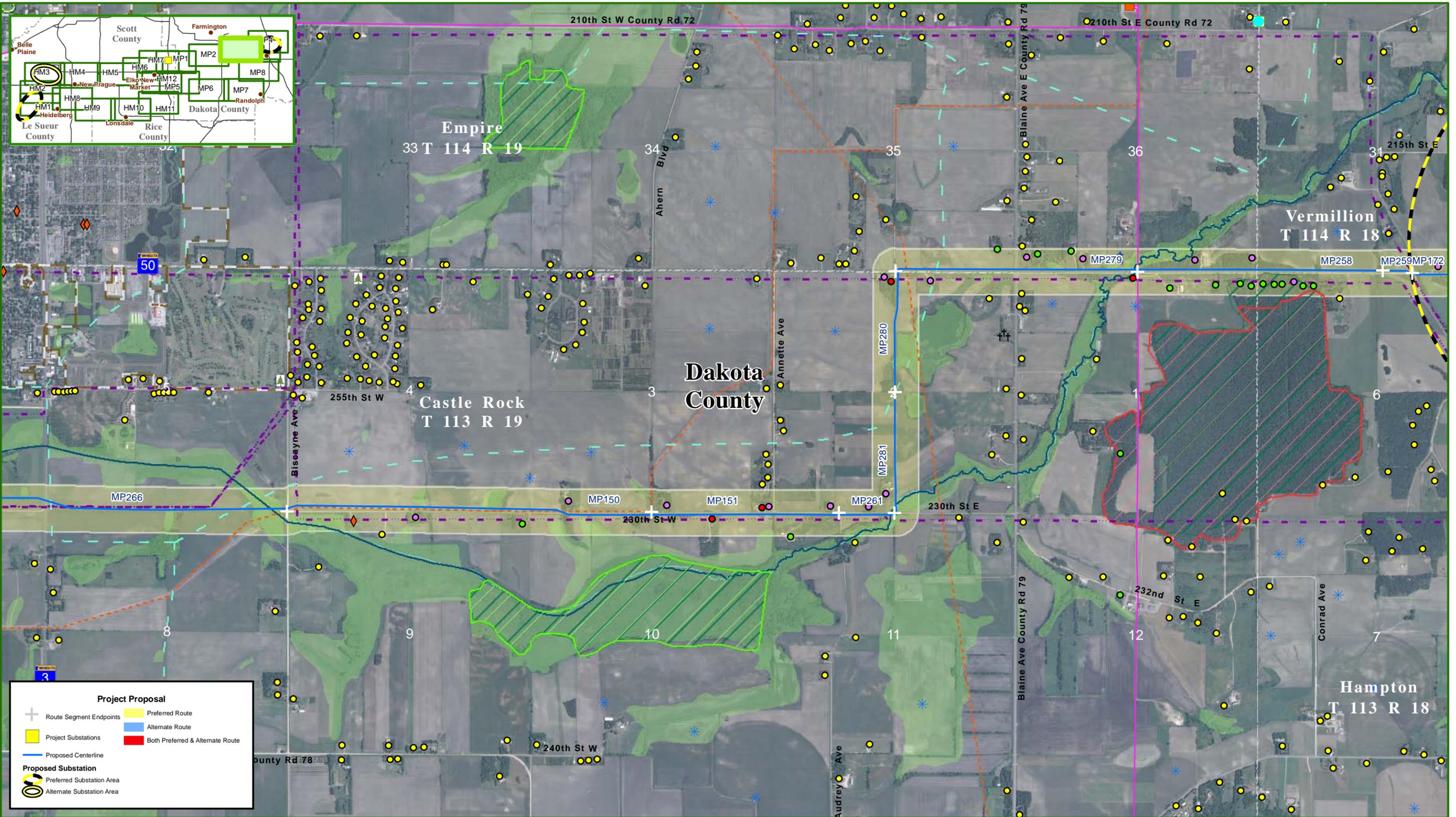
- Homes (from Proposed Centerline)**
- 75 - 150 ft
 - 150 - 300 ft
 - 300 - 500 ft
 - over 500 ft

- MN State Wild and Scenic River**
- Scenic
 - Recreational
- Hydrography and Wetlands**
- NWI Wetland
 - PWI Water
 - MN Trout Streams
 - Impaired Waters

- USFWS Easement
 - MN SNA
 - Metro Park
 - Metro Significant
 - USFWS WPA
 - USFWS NWR
- MN WMA**
- State Funded
 - Federally Funded

Appendix B.6 - Sheet MP2
Lake Marion Substation to
Hampton Substation
Detailed Route Maps

Route Permit
Brookings County - Hampton
345 kV Transmission Line



CapX2020
Delivering electricity you can rely on

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1:24,000

Data Source: Please refer to Section 12

- Transmission Lines**
- 69 kV - Existing
 - 115 kV - Existing
 - 230 kV - Existing
 - 345 kV - Existing
 - 69 kV - Proposed
 - 115 kV - Proposed
 - 230 kV - Proposed

- Cemetery
- Churches
- Parks and Recreation
- Aggregate Locations
- FCC Telecom Tower
- Certified Organic Farm
- Scenic Byway
- Planned MN DOT Upgrades
- Existing Pipeline

- Trails**
- Existing State & Regional Trail
 - Regional Planned & Proposed Trail
 - Snowmobile Trail
- MCBS Biodiversity Significance**
- Moderate Significance
 - High Significance
 - Outstanding Significance

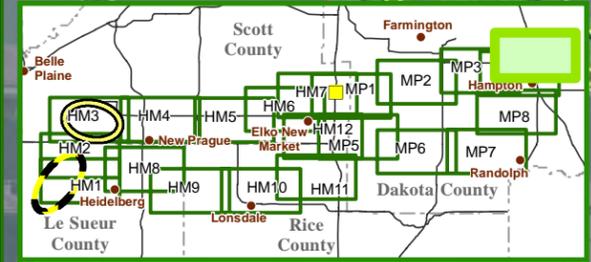
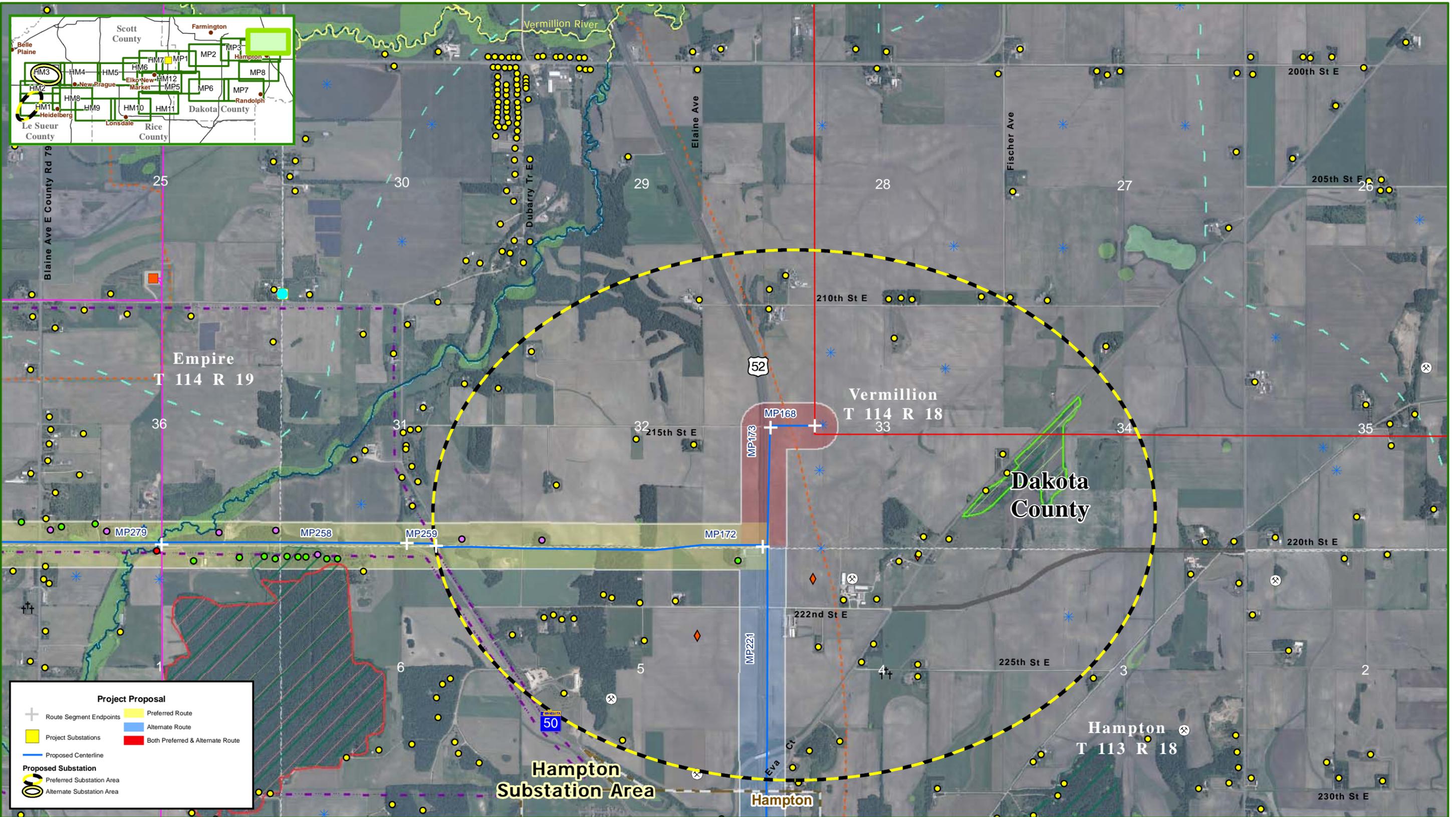
- Homes (from Proposed Centerline)**
- 75 - 150 ft
 - 150 - 300 ft
 - 300 - 500 ft
 - over 500 ft

- MN State Wild and Scenic River**
- Scenic
 - Recreational
- Hydrography and Wetlands**
- NWI Wetland
 - PWI Water
 - MN Trout Streams
 - Impaired Waters

- USFWS Easement
 - MN SNA
 - Metro Park
 - Metro Significant
 - USFWS WPA
 - USFWS NWR
- MN WMA**
- State Funded
 - Federally Funded

Appendix B.6 - Sheet MP3
Lake Marion Substation to
Hampton Substation
Detailed Route Maps

Route Permit
Brookings County - Hampton
345 kV Transmission Line



Project Proposal

- Route Segment Endpoints
- Project Substations
- Proposed Centerline
- Proposed Substation
 - Preferred Substation Area
 - Alternate Substation Area
- Preferred Route
- Alternate Route
- Both Preferred & Alternate Route

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Transmission Lines

- 69 kV - Existing
- 115 kV - Existing
- 230 kV - Existing
- 345 kV - Existing
- 69 kV - Proposed
- 115 kV - Proposed
- 230 kV - Proposed

Other Features

- Cemetery
- Churches
- Parks and Recreation
- Aggregate Locations
- FCC Telecom Tower
- Certified Organic Farm
- Scenic Byway
- Planned MN DOT Upgrades
- Existing Pipeline

Trails

- Existing State & Regional Trail
- Regional Planned & Proposed Trail
- Snowmobile Trail

MCBS Biodiversity Significance

- Moderate Significance
- High Significance
- Outstanding Significance

Homes (from Proposed Centerline)

- 75 - 150 ft
- 150 - 300 ft
- 300 - 500 ft
- over 500 ft

MN State Wild and Scenic River

- Scenic
- Recreational

Hydrography and Wetlands

- NWI Wetland
- PWI Water
- MN Trout Streams
- Impaired Waters

USFWS Easement

- MN SNA
- Metro Park
- Metro Significant
- USFWS WPA
- USFWS NWR

MN WMA

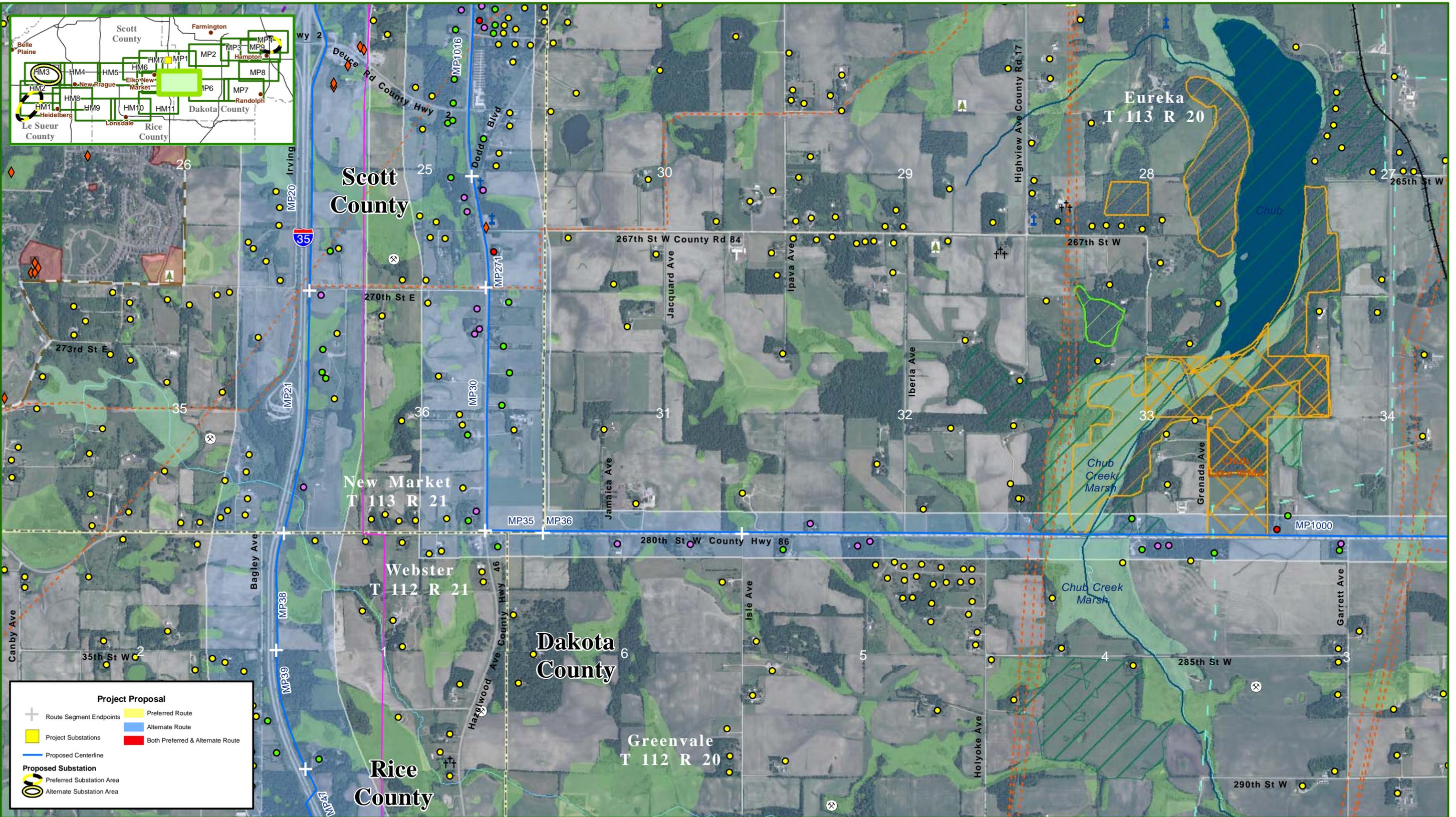
- State Funded
- Federally Funded

Appendix B.6 - Sheet MP4
Lake Marion Substation to
Hampton Substation
Detailed Route Maps

Route Permit
Brookings County - Hampton
345 kV Transmission Line

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Data Source: Please refer to Section 12



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Data Source: Please refer to Section 12

- Transmission Lines**
- 69 kV - Existing
 - 115 kV - Existing
 - 230 kV - Existing
 - 345 kV - Existing
 - 69 kV - Proposed
 - 115 kV - Proposed
 - 230 kV - Proposed

- Proposed Substation**
- Preferred Substation Area
 - Alternate Substation Area

- Trails**
- Existing State & Regional Trail
 - Regional Planned & Proposed Trail
 - Snowmobile Trail
- MCBS Biodiversity Significance**
- Moderate Significance
 - High Significance
 - Outstanding Significance

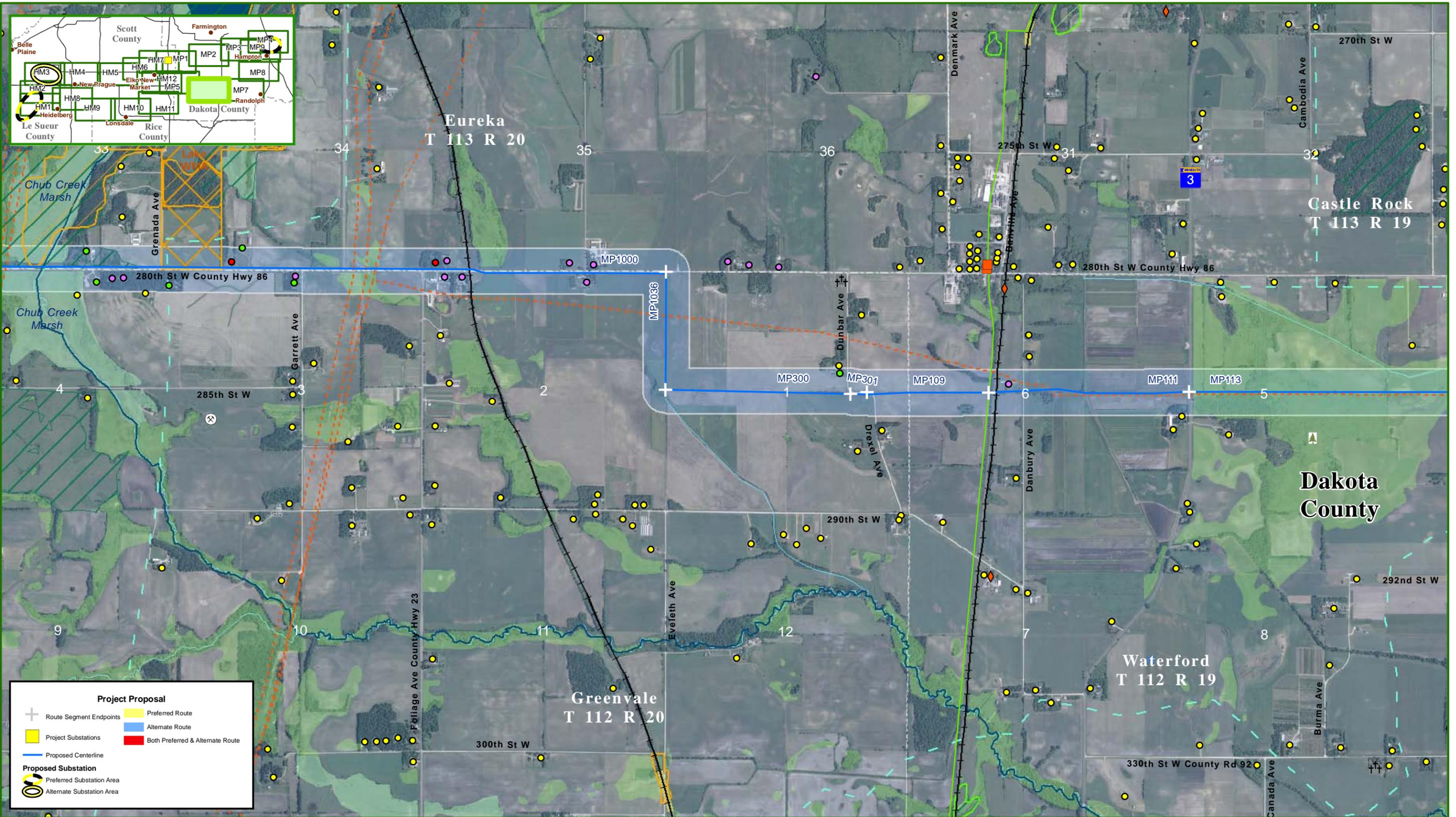
- Homes (from Proposed Centerline)**
- 75 - 150 ft
 - 150 - 300 ft
 - 300 - 500 ft
 - over 500 ft

- MN State Wild and Scenic River**
- Scenic
 - Recreational
- Hydrography and Wetlands**
- NWI Wetland
 - PWI Water
 - MN Trout Streams
 - Impaired Waters

- USFWS Easement**
- MN SNA
 - Metro Park
 - Metro Significant
 - USFWS WPA
 - USFWS NWR
- MN WMA**
- State Funded
 - Federally Funded

Appendix B.6 - Sheet MP5
Lake Marion Substation to
Hampton Substation
Detailed Route Maps

Route Permit
Brookings County - Hampton
345 kV Transmission Line



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Data Source: Please refer to Section 12

- Transmission Lines**
- 69 kV - Existing
 - 115 kV - Existing
 - 230 kV - Existing
 - 345 kV - Existing
 - 69 kV - Proposed
 - 115 kV - Proposed
 - 230 kV - Proposed

- Proposed Substation**
- Preferred Substation Area
 - Alternate Substation Area
- Project Proposal**
- Route Segment Endpoints
 - Project Substations
 - Proposed Centerline

- Trails**
- Existing State & Regional Trail
 - Regional Planned & Proposed Trail
 - Snowmobile Trail
- MCBS Biodiversity Significance**
- Moderate Significance
 - High Significance
 - Outstanding Significance

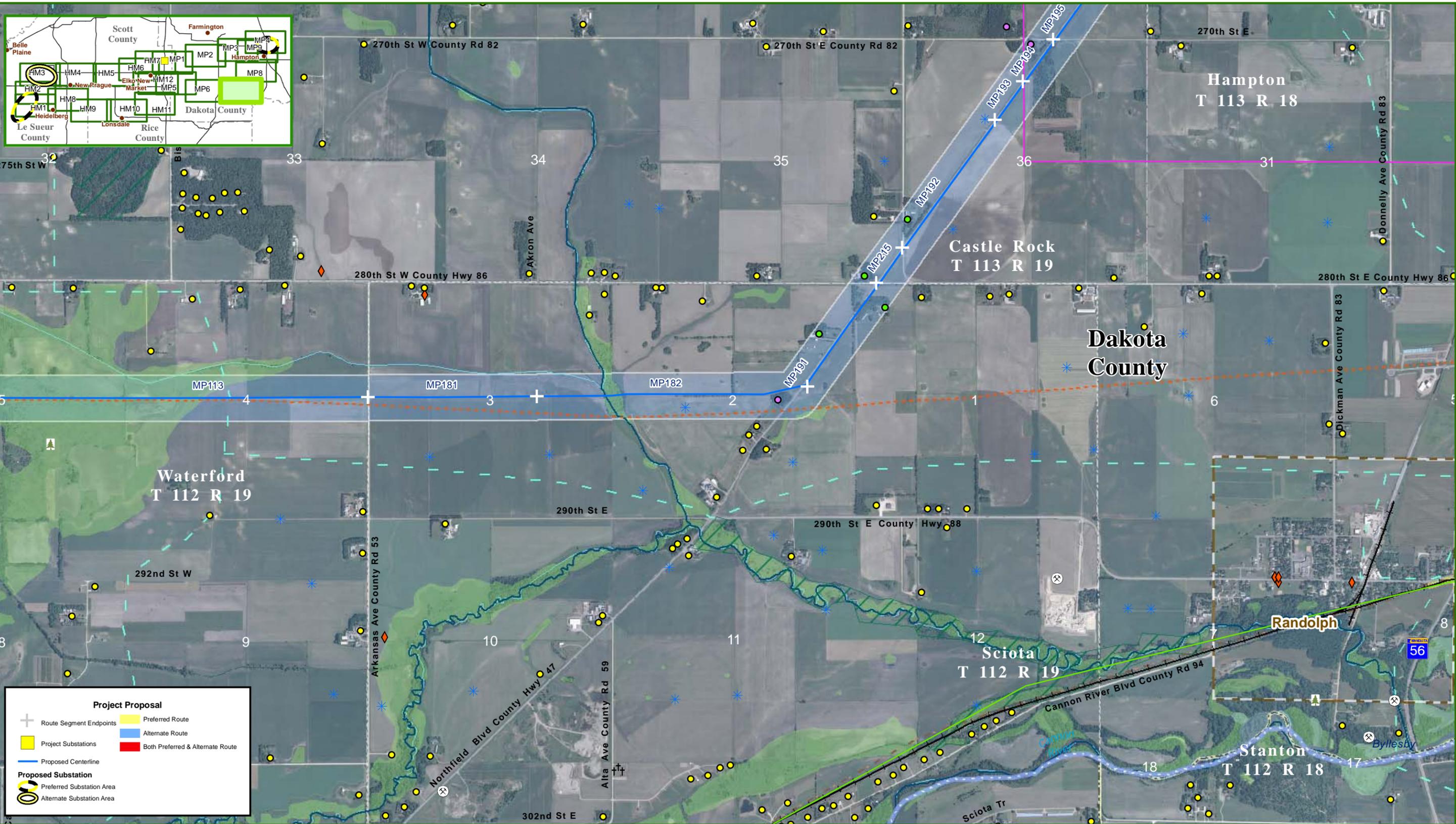
- Homes (from Proposed Centerline)**
- 75 - 150 ft
 - 150 - 300 ft
 - 300 - 500 ft
 - over 500 ft

- MN State Wild and Scenic River**
- Scenic
 - Recreational
- Hydrography and Wetlands**
- NWI Wetland
 - PWI Water
 - MN Trout Streams
 - Impaired Waters

- USFWS Easement**
- MN SNA
 - Metro Park
 - Metro Significant
 - USFWS WPA
 - USFWS NWR
- MN WMA**
- State Funded
 - Federally Funded

Appendix B.6 - Sheet MP6
Lake Marion Substation to
Hampton Substation
Detailed Route Maps

Route Permit
Brookings County - Hampton
345 kV Transmission Line



Project Proposal

- Route Segment Endpoints
- Project Substations
- Proposed Centerline
- Proposed Substation
 - Preferred Substation Area
 - Alternate Substation Area
- Preferred Route
- Alternate Route
- Both Preferred & Alternate Route

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Existing Substations

Transmission Lines

- 69 kV - Existing
- 115 kV - Existing
- 230 kV - Existing
- 345 kV - Existing
- 69 kV - Proposed
- 115 kV - Proposed
- 230 kV - Proposed

- Cemetery
- Churches
- Parks and Recreation
- Aggregate Locations
- FCC Telecom Tower
- Certified Organic Farm
- Scenic Byway
- Planned MN DOT Upgrades
- Existing Pipeline

Railroad Prairie

- Center Pivot Irrigation
- MCES Planned Interceptor

Trails

- Existing State & Regional Trail
- Regional Planned & Proposed Trail
- Snowmobile Trail

MCBS Biodiversity Significance

- Moderate Significance
- High Significance
- Outstanding Significance

Homes (from Proposed Centerline)

- 75 - 150 ft
- 150 - 300 ft
- 300 - 500 ft
- over 500 ft

MN State Wild and Scenic River

- Scenic
- Recreational

Hydrography and Wetlands

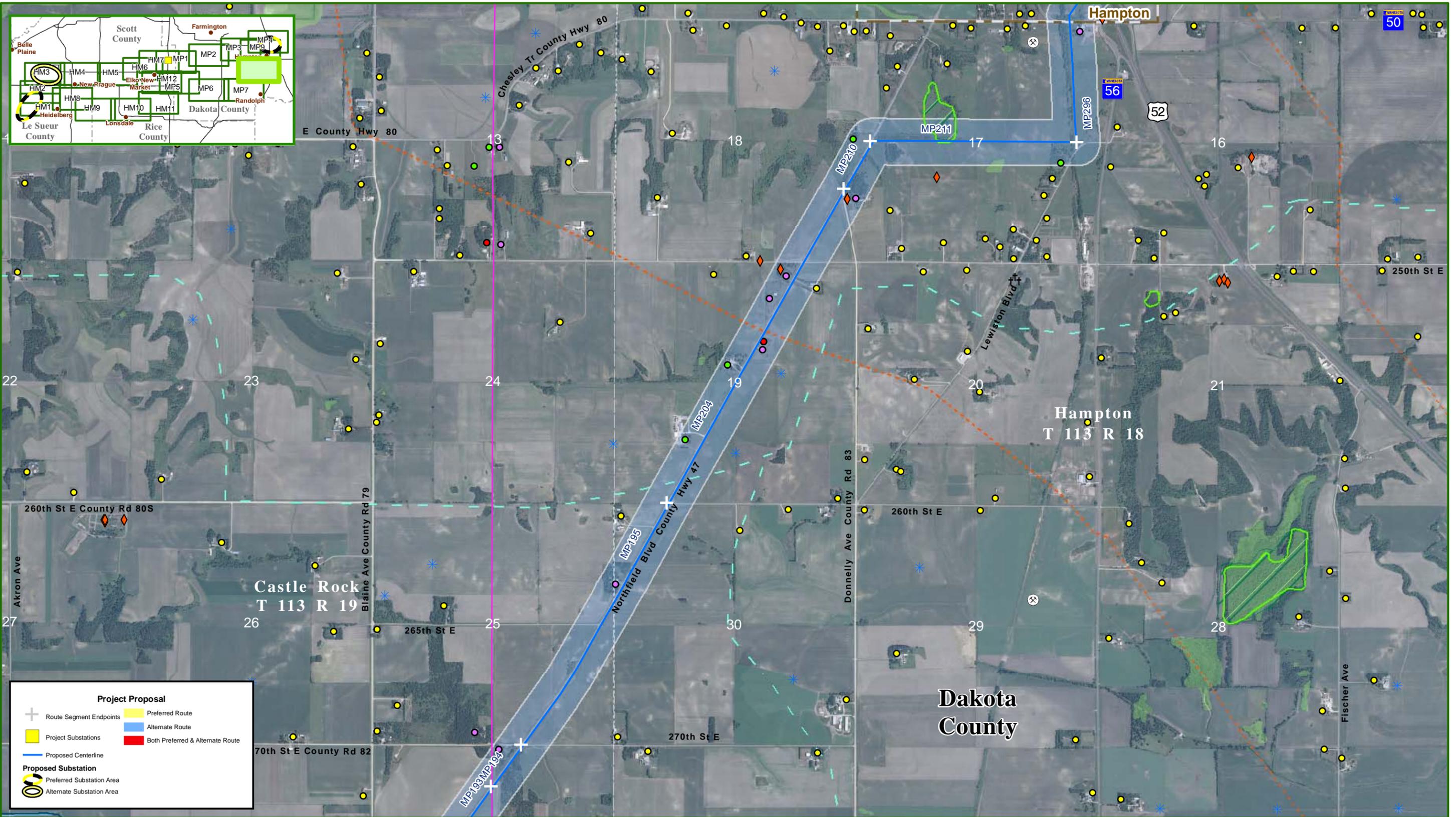
- NWI Wetland
- PWI Water
- MN Trout Streams
- Impaired Waters

- USFWS Easement
- MN SNA
- Metro Park
- Metro Significant
- USFWS WPA
- USFWS NWR
- MN WMA**
 - State Funded
 - Federally Funded

Appendix B.6 - Sheet MP7
Lake Marion Substation to
Hampton Substation
Detailed Route Maps

Route Permit
Brookings County - Hampton
345 kV Transmission Line

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Data Source: Please refer to Section 12

- Existing Substations**
- Transmission Lines**
- 69 kV - Existing
 - 115 kV - Existing
 - 230 kV - Existing
 - 345 kV - Existing
 - 69 kV - Proposed
 - 115 kV - Proposed
 - 230 kV - Proposed

- Cemetery
- Churches
- Parks and Recreation
- Aggregate Locations
- FCC Telecom Tower
- Certified Organic Farm
- Scenic Byway
- Planned MN DOT Upgrades
- Existing Pipeline

- Railroad Prairie**
- Center Pivot Irrigation
 - MCES Planned Interceptor
- Trails**
- Existing State & Regional Trail
 - Regional Planned & Proposed Trail
 - Snowmobile Trail
- MCBS Biodiversity Significance**
- Moderate Significance
 - High Significance
 - Outstanding Significance

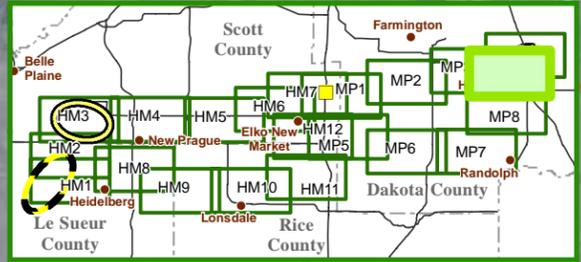
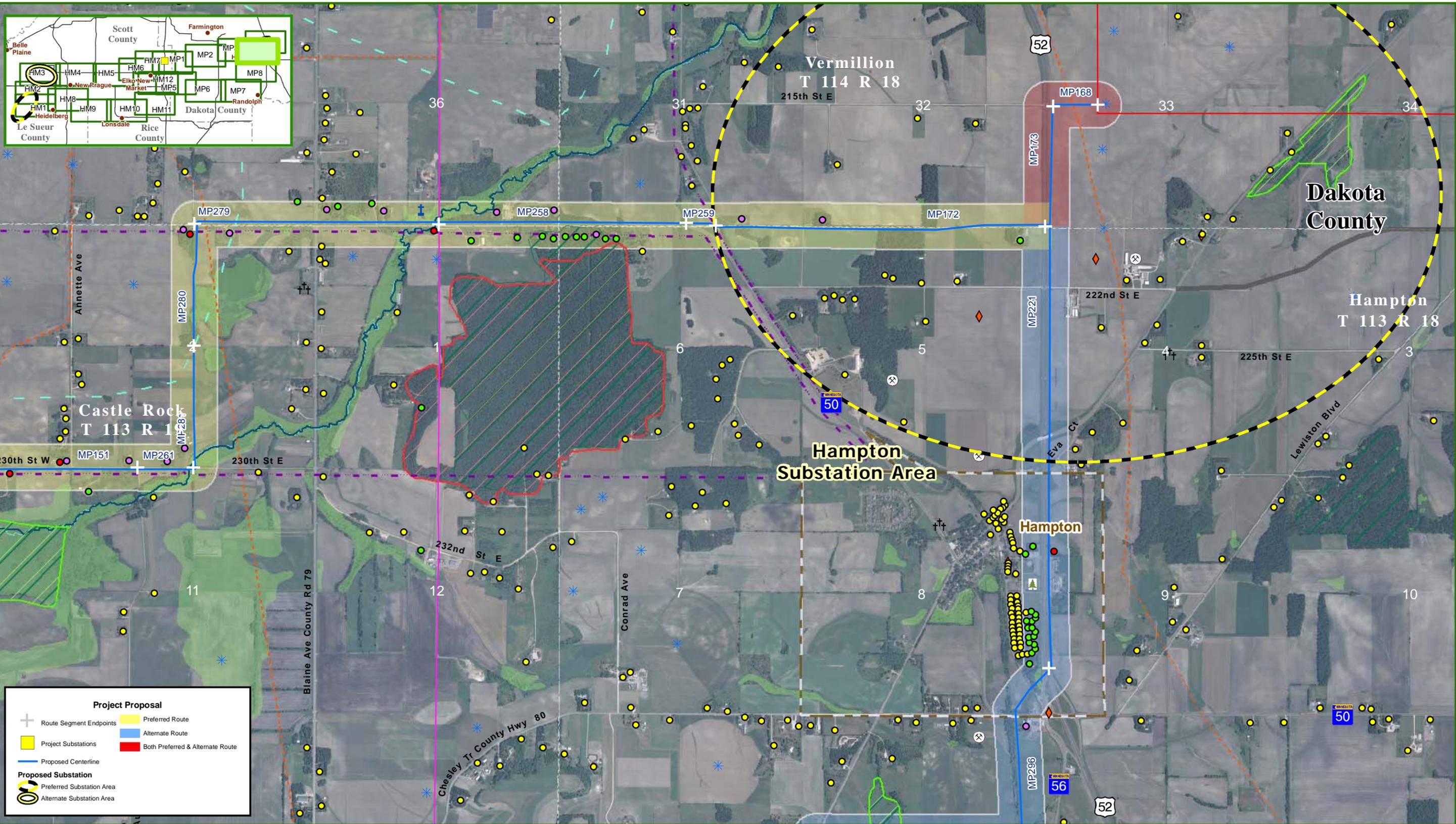
- Homes (from Proposed Centerline)**
- 75 - 150 ft
 - 150 - 300 ft
 - 300 - 500 ft
 - over 500 ft

- MN State Wild and Scenic River**
- Scenic
 - Recreational
- Hydrography and Wetlands**
- NWI Wetland
 - PWI Water
 - MN Trout Streams
 - Impaired Waters

- USFWS Easement
 - MN SNA
 - Metro Park
 - Metro Significant
 - USFWS WPA
 - USFWS NWR
- MN WMA**
- State Funded
 - Federally Funded

Appendix B.6 - Sheet MP8
Lake Marion Substation to
Hampton Substation
Detailed Route Maps

Route Permit
Brookings County - Hampton
345 kV Transmission Line



Project Proposal

- Route Segment Endpoints
- Project Substations
- Proposed Centerline
- Proposed Substation
 - Preferred Substation Area
 - Alternate Substation Area
- Preferred Route
- Alternate Route
- Both Preferred & Alternate Route

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Transmission Lines

- 69 kV - Existing
- 115 kV - Existing
- 230 kV - Existing
- 345 kV - Existing
- 69 kV - Proposed
- 115 kV - Proposed
- 230 kV - Proposed

- Cemetery
- Churches
- Parks and Recreation
- Aggregate Locations
- FCC Telecom Tower
- Certified Organic Farm
- Scenic Byway
- Planned MN DOT Upgrades
- Existing Pipeline

Trails

- Existing State & Regional Trail
- Regional Planned & Proposed Trail
- Snowmobile Trail

MCBS Biodiversity Significance

- Moderate Significance
- High Significance
- Outstanding Significance

Homes (from Proposed Centerline)

- 75 - 150 ft
- 150 - 300 ft
- 300 - 500 ft
- over 500 ft

MN State Wild and Scenic River

- Scenic
- Recreational

Hydrography and Wetlands

- NWI Wetland
- PWI Water
- MN Trout Streams
- Impaired Waters

- USFWS Easement
- MN SNA
- Metro Park
- Metro Significant
- USFWS WPA
- USFWS NWR
- MN WMA**
 - State Funded
 - Federally Funded

Appendix B.6 - Sheet MP9
Lake Marion Substation to
Hampton Substation
Detailed Route Maps

Route Permit
Brookings County - Hampton
345 kV Transmission Line

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