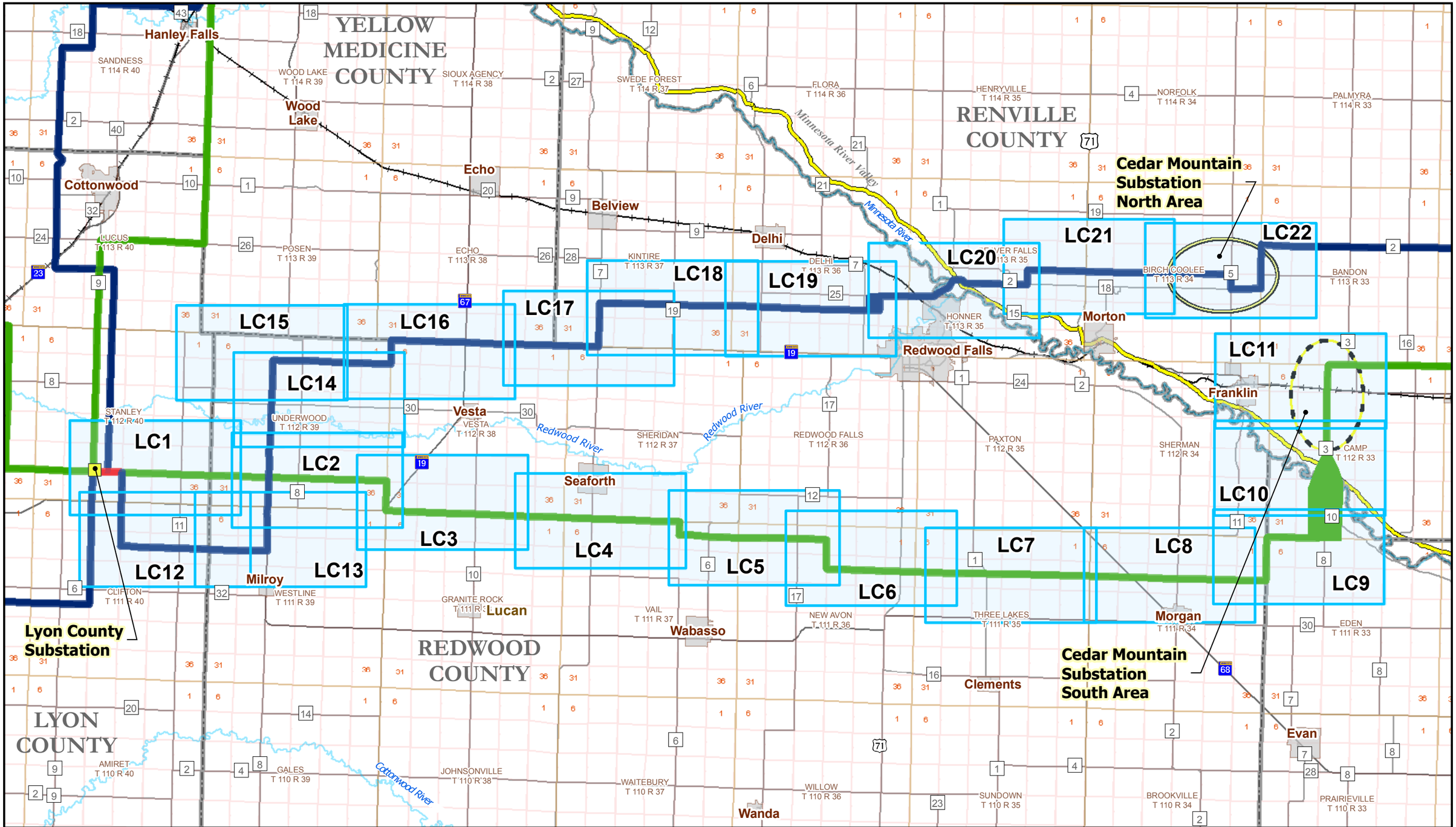

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Preferred Substation Area
Alternate Substation Area
Project Substations
City
Scenic Byway

Routes
Preferred
Alternate
Both Preferred & Alternate

Detailed Map Extent

Appendix B.4 - Detailed Route Maps Index
Lyon County Substation to Cedar Mountain Substation Area

Route Permit
Brookings County - Hampton
345 kV Transmission Line

Map Document: (\\mspe-gis-file\GISProj\GRE\64620\map_docs\mxd\Route_Permit\appendix\detail\indexes\map_11x17_L_index_area_LC_121508.mxd) 12/19/2008

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CapX2020
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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

Data Source: Please refer to Section 12

Appendix B.4 - Sheet LC1
Lyon County Substation to
Cedar Mountain Substation
Detailed Route Maps

Route Permit
Brookings County - Hampton
345 kV Transmission Line

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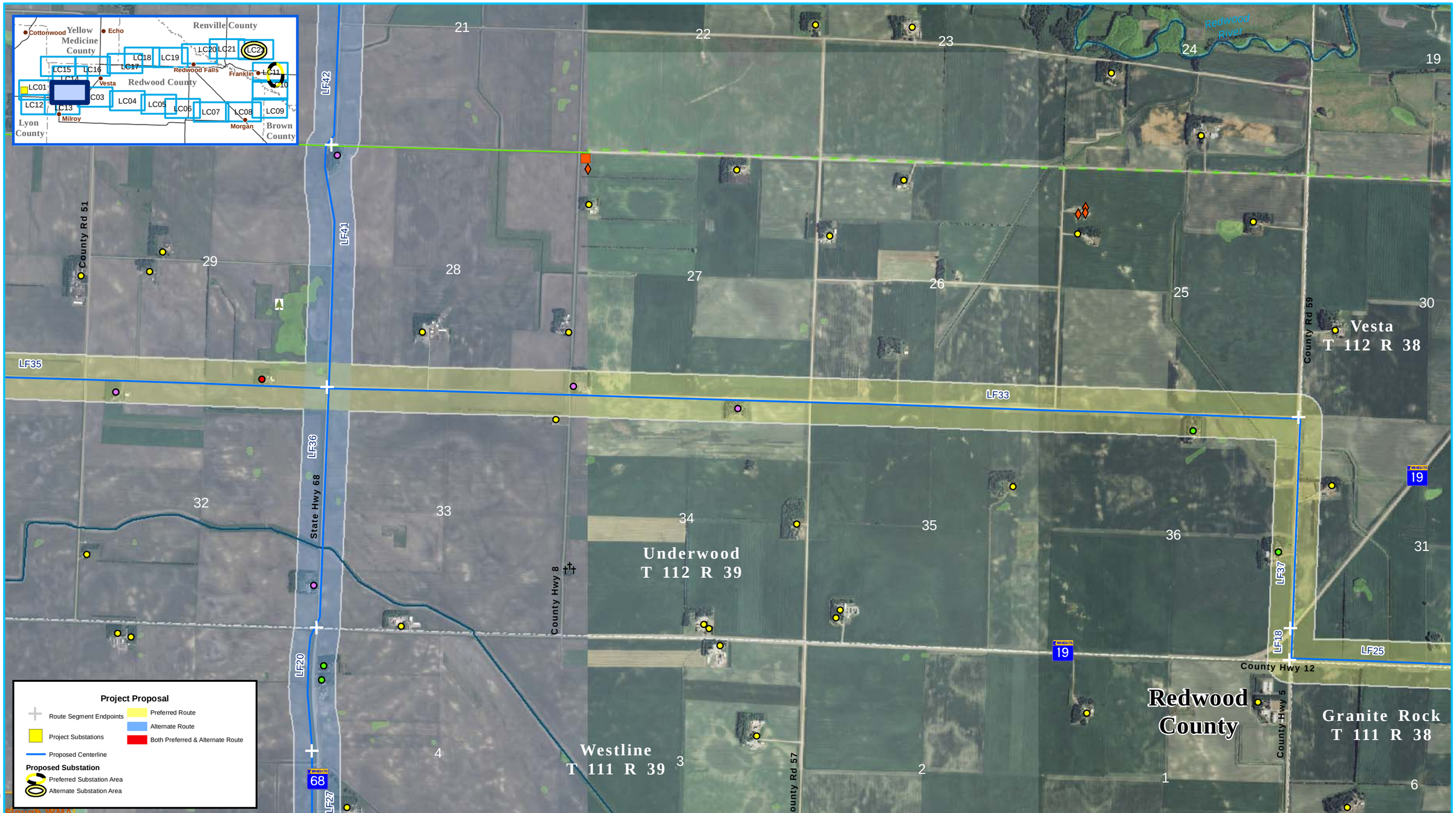

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Data Source: Please refer to Section 12

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

- Existing Substations
- 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.4 - Sheet LC2
Lyon County Substation to
Cedar Mountain Substation
Detailed Route Maps

Route Permit
Brookings County - Hampton
345 kV Transmission Line

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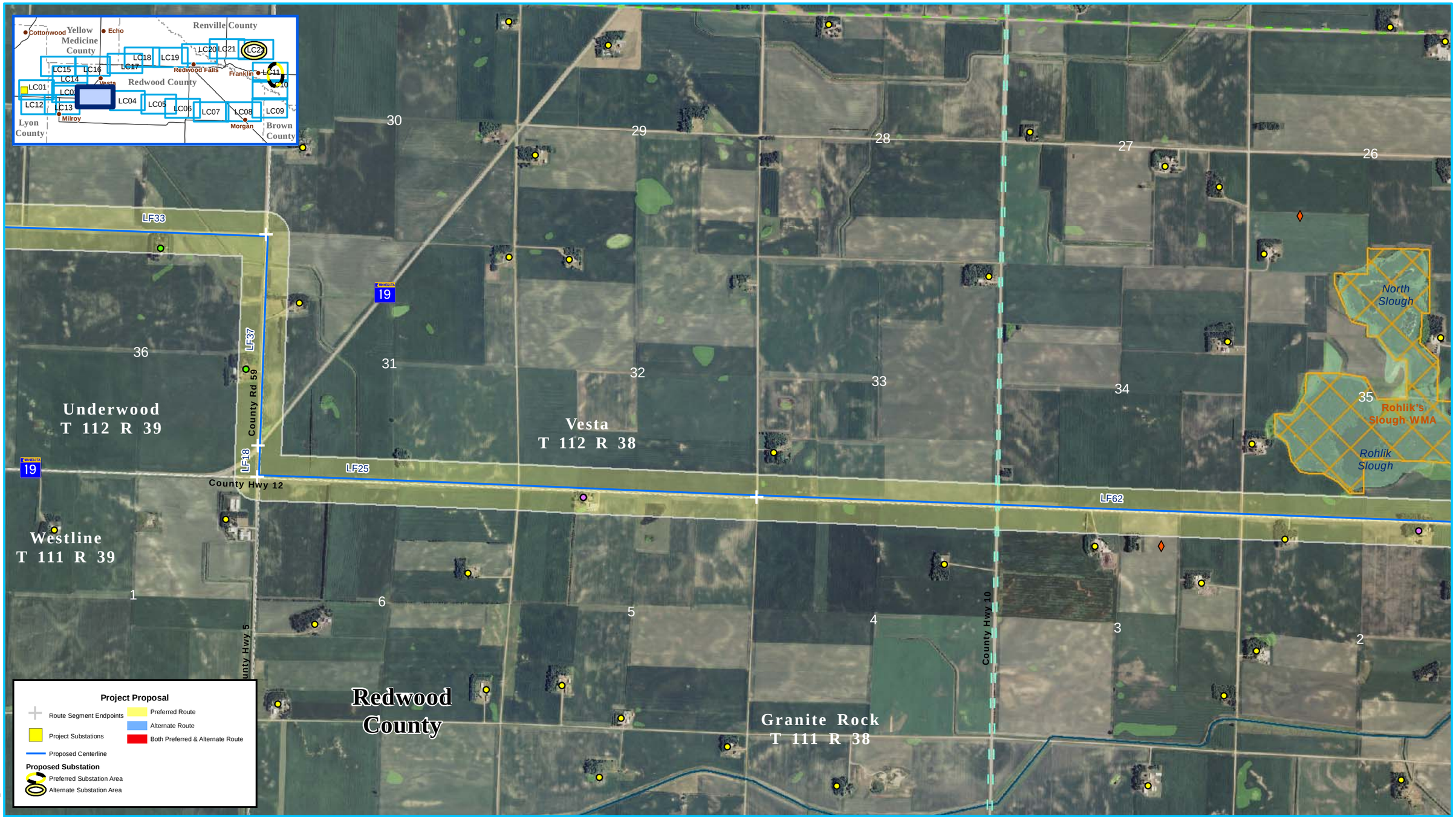

CapX2020
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0 1,000 2,000 Feet
1:24,000

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

Data Source: Please refer to Section 12

Appendix B.4 - Sheet LC3
Lyon County Substation to
Cedar Mountain Substation
Detailed Route Maps

Route Permit
Brookings County - Hampton
345 kV Transmission Line

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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.4 - Sheet LC4
Lyon County Substation to
Cedar Mountain Substation
Detailed Route Maps

Route Permit
Brookings County - Hampton
345 kV Transmission Line

Data Source: Please refer to Section 12

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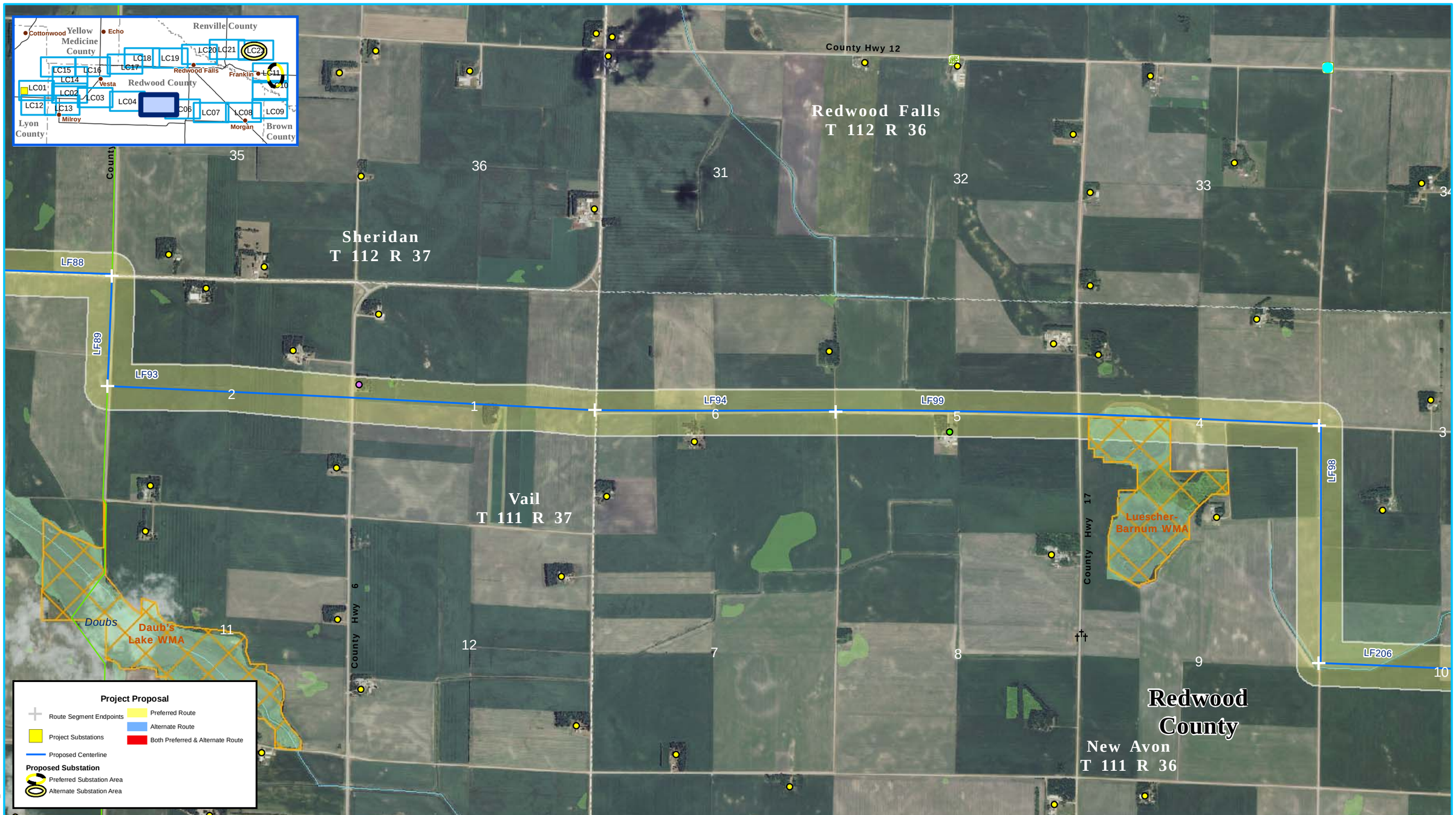

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Existing Substations
Transmission Lines
69 kV - Existing
115 kV - Existing
230 kV - Existing
345 kV - Existing
69 kV - Proposed
115 kV - Proposed
230 kV - Proposed

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

Data Source: Please refer to Section 12

Appendix B.4 - Sheet LC5
Lyon County Substation to
Cedar Mountain Substation
Detailed Route Maps

Route Permit
Brookings County - Hampton
345 kV Transmission Line

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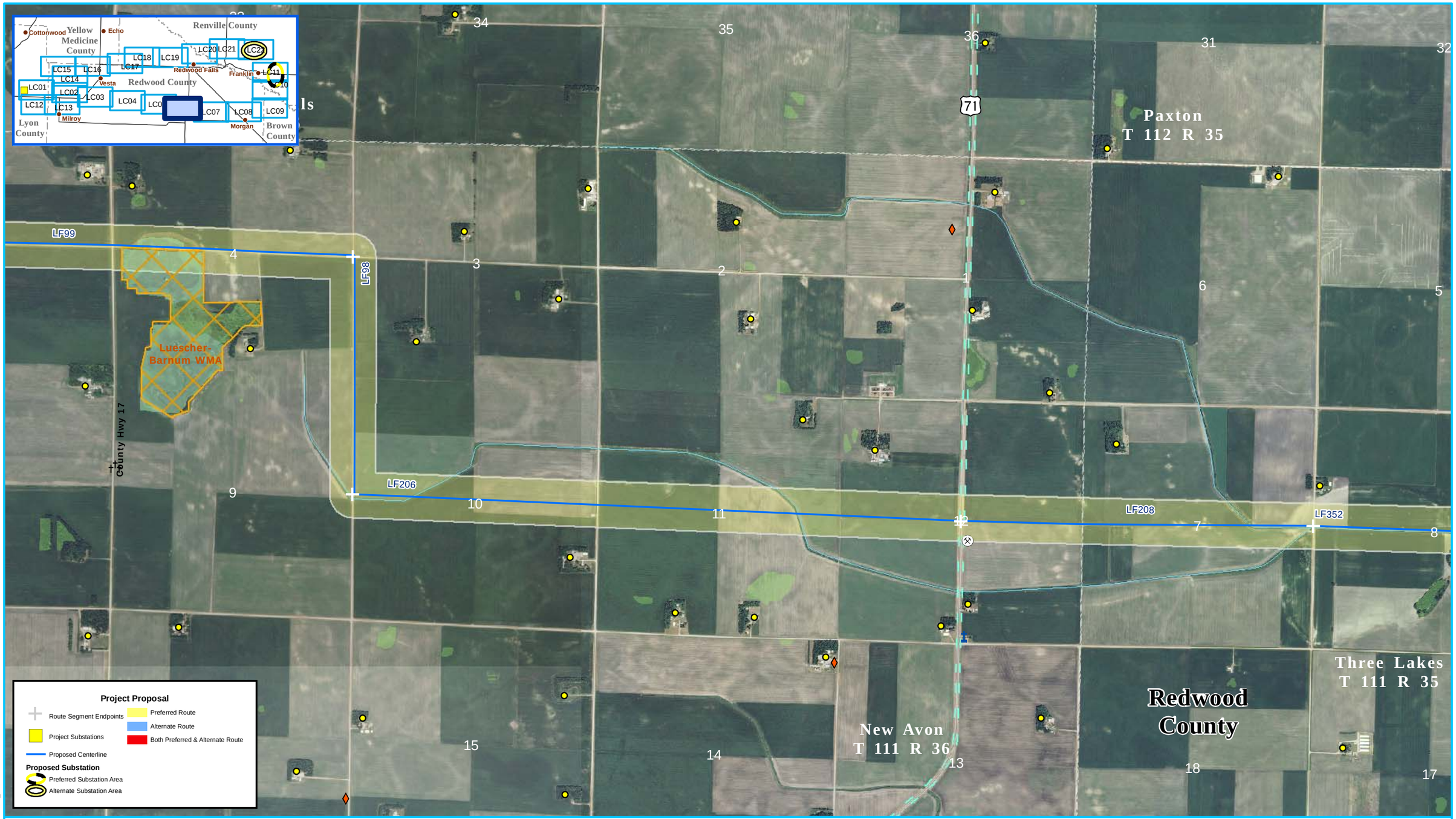

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Existing Substations
Transmission Lines
69 kV - Existing
115 kV - Existing
230 kV - Existing
345 kV - Existing
69 kV - Proposed
115 kV - Proposed
230 kV - Proposed

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.4 - Sheet LC6
Lyon County Substation to
Cedar Mountain Substation
Detailed Route Maps

Route Permit
Brookings County - Hampton
345 kV Transmission Line

Data Source: Please refer to Section 12

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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.4 - Sheet LC7
Lyon County Substation to
Cedar Mountain Substation
Detailed Route Maps

Route Permit
Brookings County - Hampton
345 kV Transmission Line

Data Source: Please refer to Section 12

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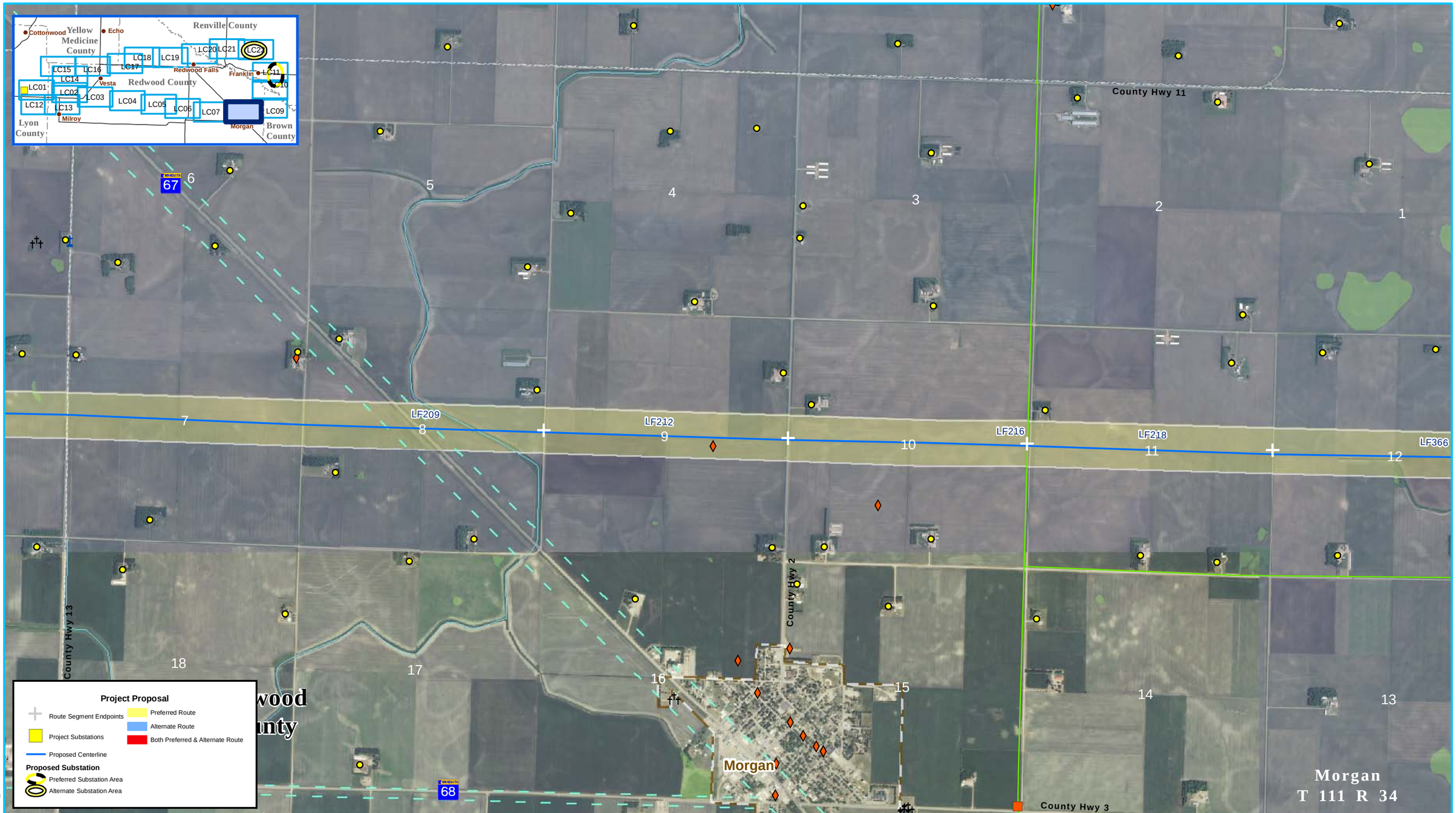

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Existing Substations

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

Data Source: Please refer to Section 12

Appendix B.4 - Sheet LC8
Lyon County Substation to
Cedar Mountain Substation
Detailed Route Maps

Route Permit
Brookings County - Hampton
345 kV Transmission Line

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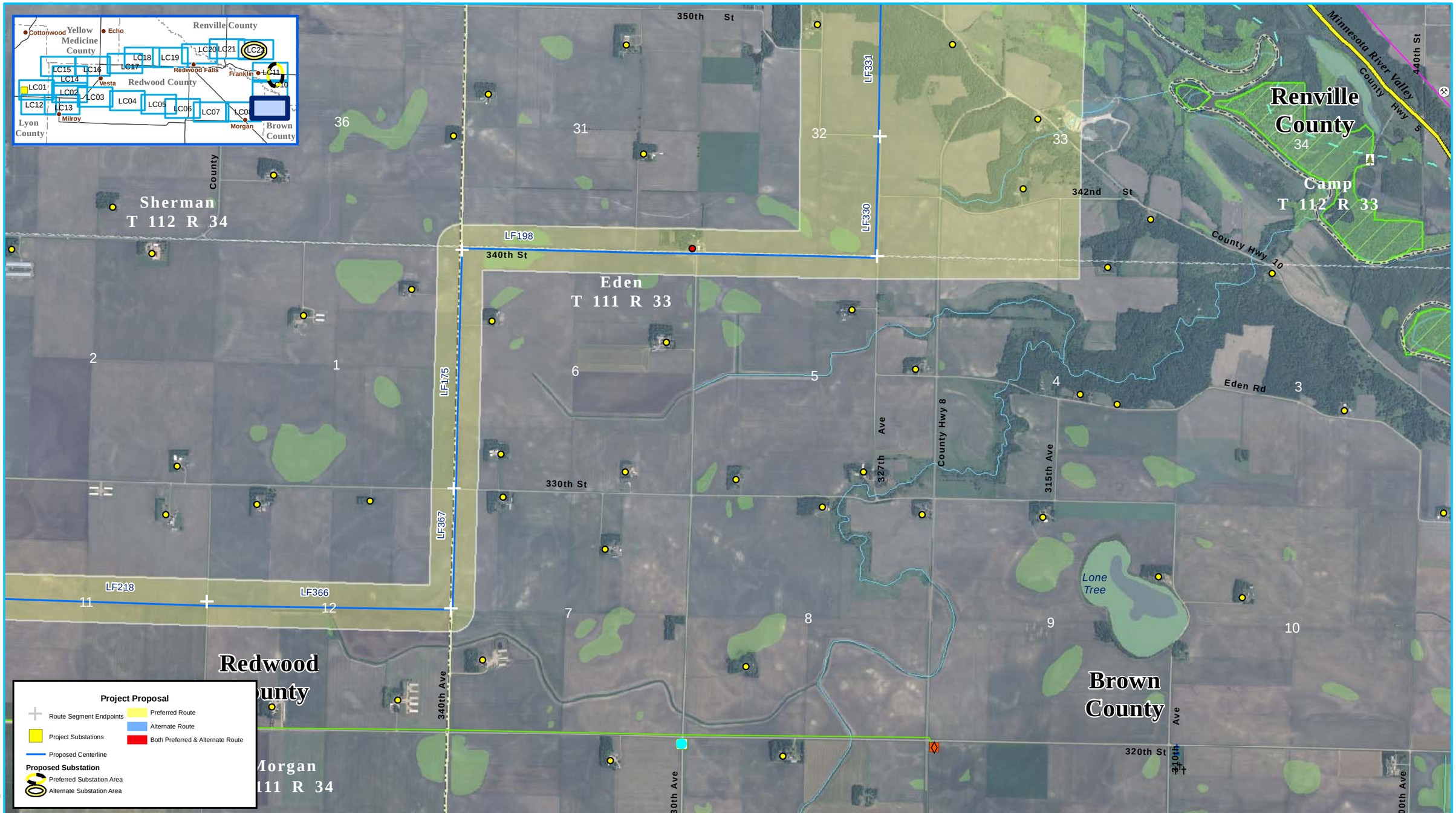

CapX2020
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Existing Substations

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

Data Source: Please refer to Section 12

Appendix B.4 - Sheet LC9
Lyon County Substation to
Cedar Mountain Substation
Detailed Route Maps

Route Permit
Brookings County - Hampton
345 kV Transmission Line

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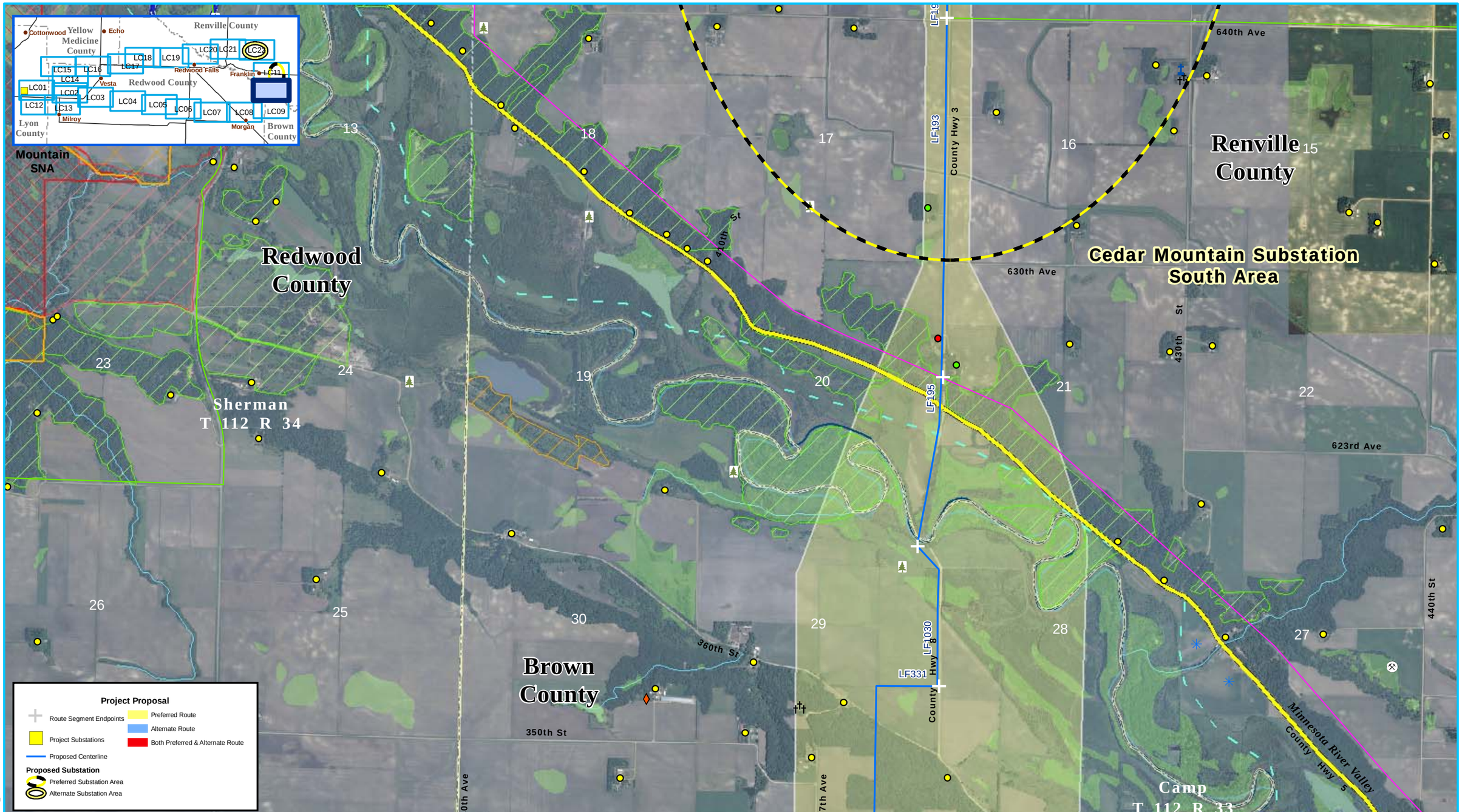

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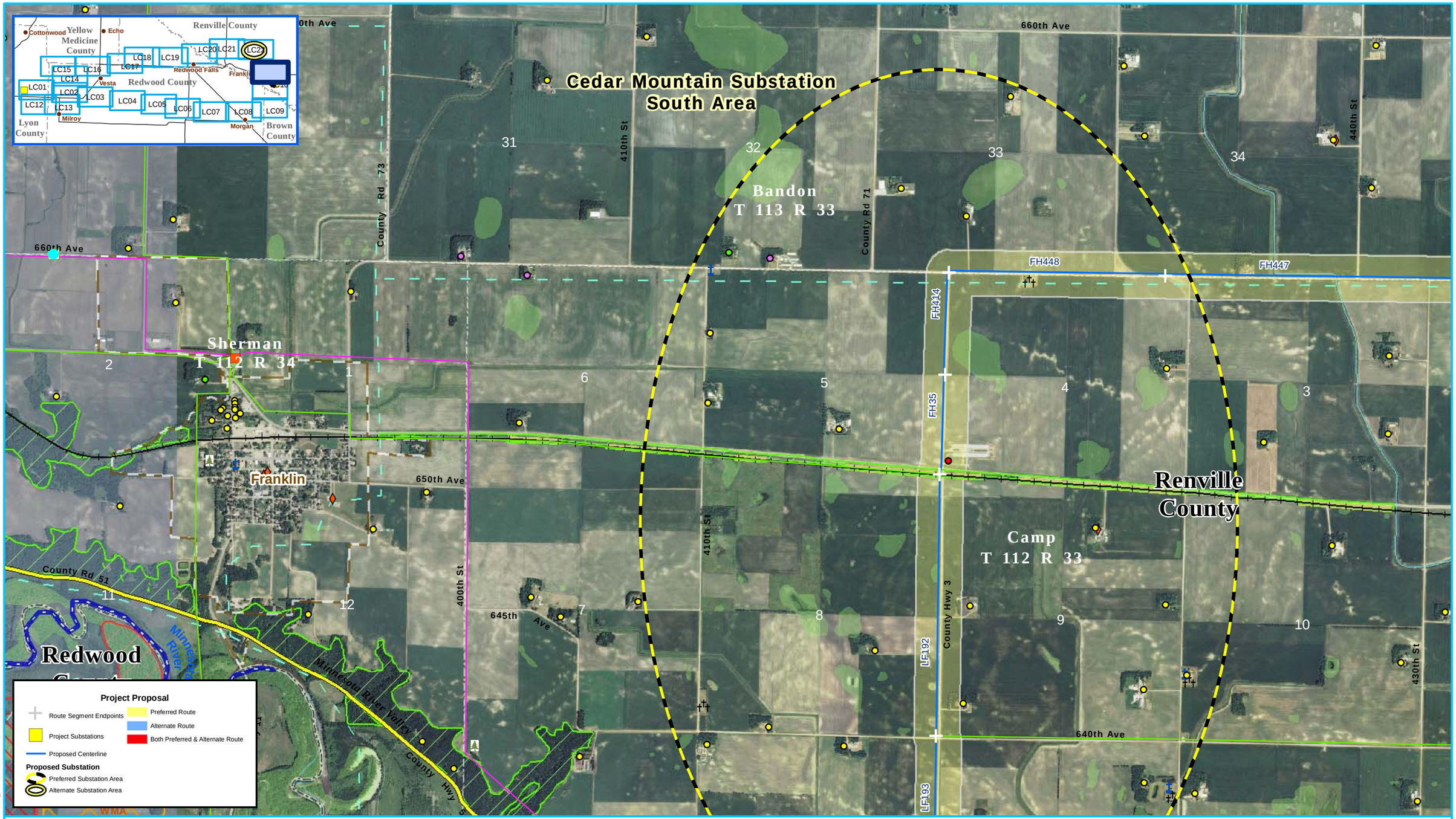
Appendix B.4 - Sheet LC10
Lyon County Substation to
Cedar Mountain Substation
Detailed Route Maps

Route Permit
Brookings County - Hampton
345 kV Transmission Line



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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

Data Source: Please refer to Section 12

Appendix B.4 - Sheet LC11
Lyon County Substation to
Cedar Mountain Substation
Detailed Route Maps

Route Permit
Brookings County - Hampton
345 kV Transmission Line

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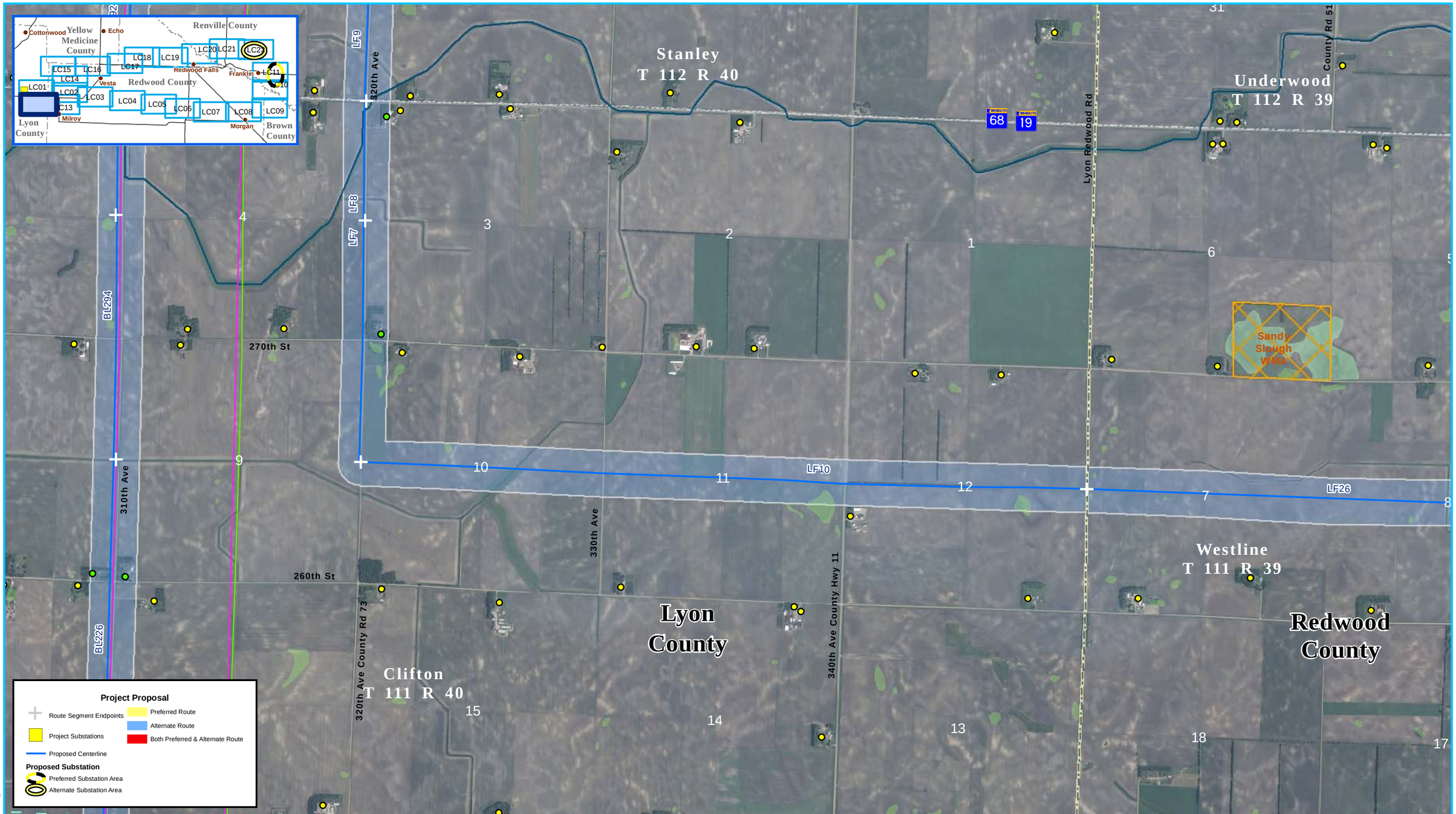

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1:24,000

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.4 - Sheet LC12
Lyon County Substation to
Cedar Mountain Substation
Detailed Route Maps

Route Permit
Brookings County - Hampton
345 kV Transmission Line

Data Source: Please refer to Section 12

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

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

Data Source: Please refer to Section 12

Appendix B.4 - Sheet LC13
Lyon County Substation to
Cedar Mountain Substation
Detailed Route Maps

Route Permit
Brookings County - Hampton
345 kV Transmission Line

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

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

Data Source: Please refer to Section 12

Appendix B.4 - Sheet LC14
Lyon County Substation to
Cedar Mountain Substation
Detailed Route Maps

Route Permit
Brookings County - Hampton
345 kV Transmission Line

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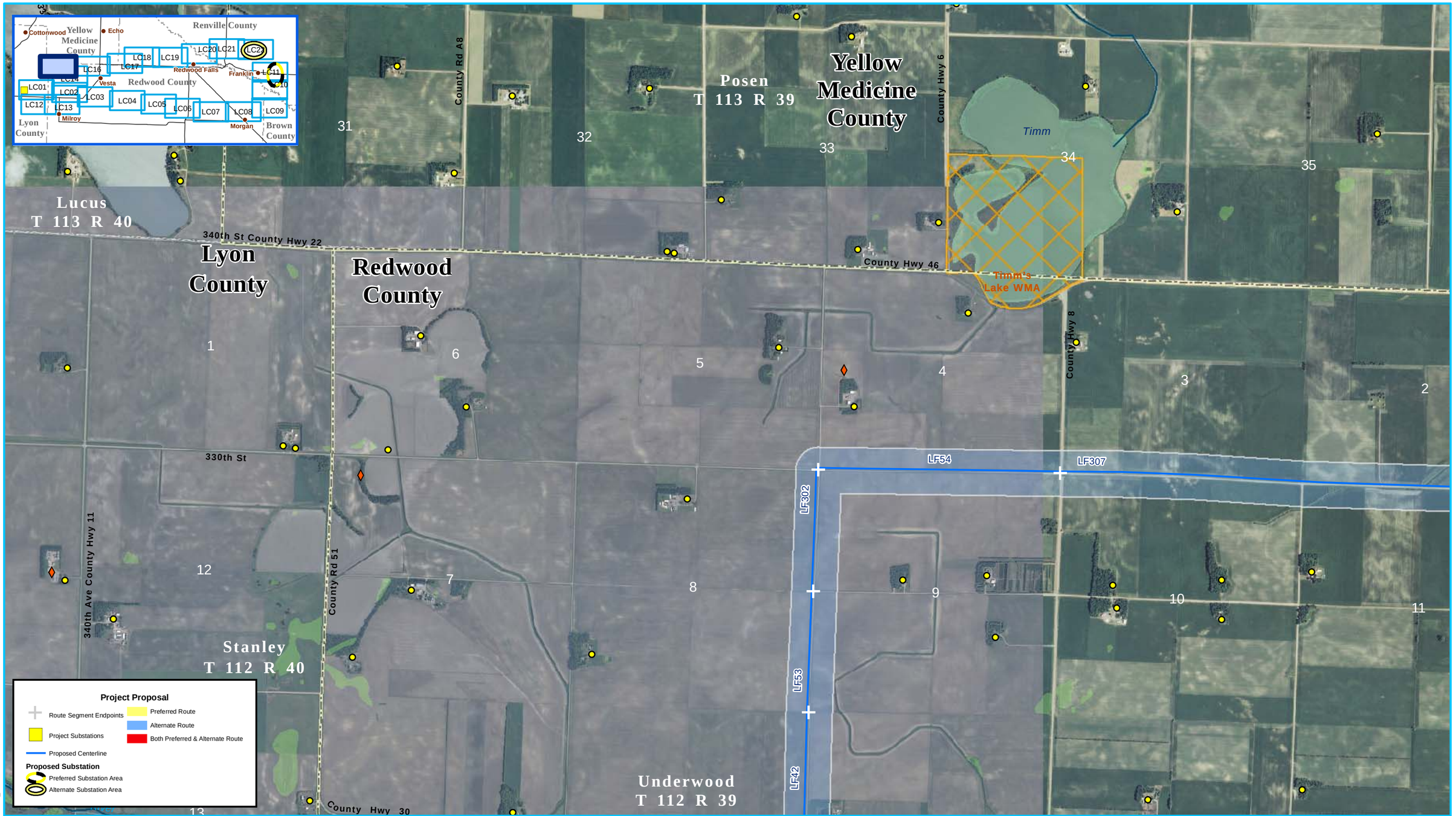

Project Proposal

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

Proposed Substation

- Preferred Substation Area
- Alternate Substation Area

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0 1,000 2,000 Feet

1:24,000

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.4 - Sheet LC15
Lyon County Substation to
Cedar Mountain Substation
Detailed Route Maps

Route Permit
Brookings County - Hampton
345 kV Transmission Line

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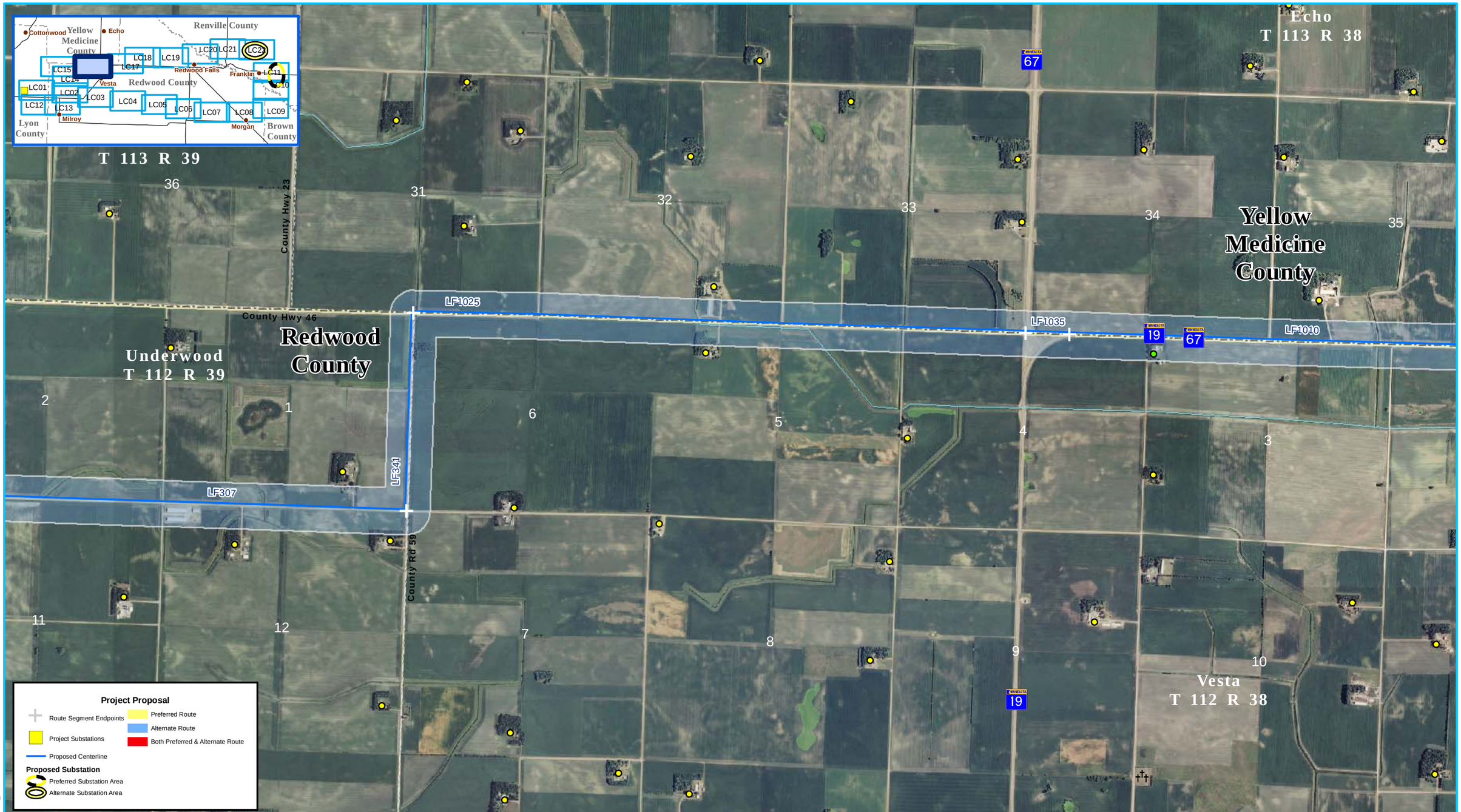

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Existing Substations
Transmission Lines
69 kV - Existing
115 kV - Existing
230 kV - Existing
345 kV - Existing
69 kV - Proposed
115 kV - Proposed
230 kV - Proposed

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.4 - Sheet LC16
Lyon County Substation to
Cedar Mountain Substation
Detailed Route Maps

Route Permit
Brookings County - Hampton
345 kV Transmission Line

Data Source: Please refer to Section 12

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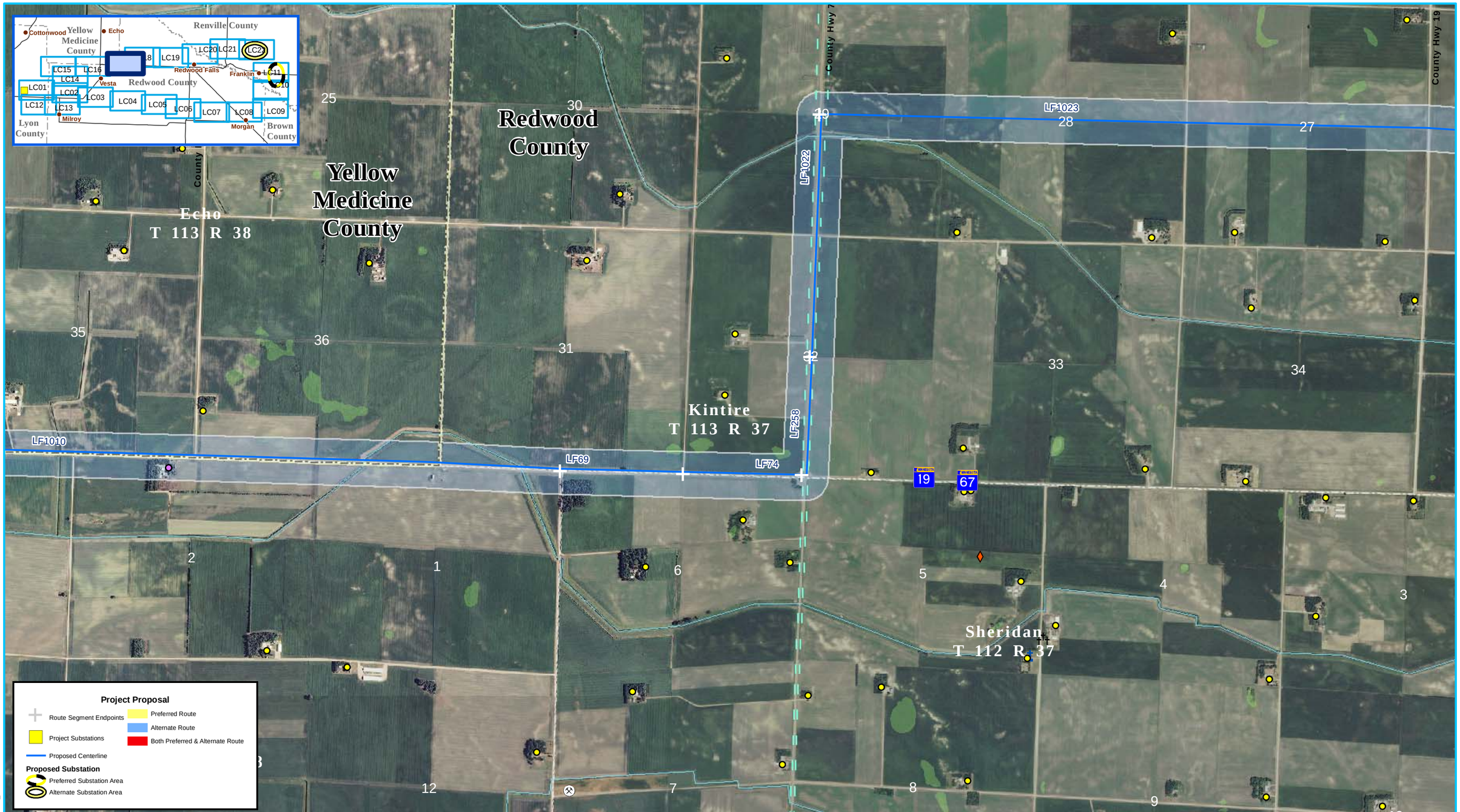

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Existing Substations

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

Data Source: Please refer to Section 12

Appendix B.4 - Sheet LC17
Lyon County Substation to
Cedar Mountain Substation
Detailed Route Maps

Route Permit
Brookings County - Hampton
345 kV Transmission Line

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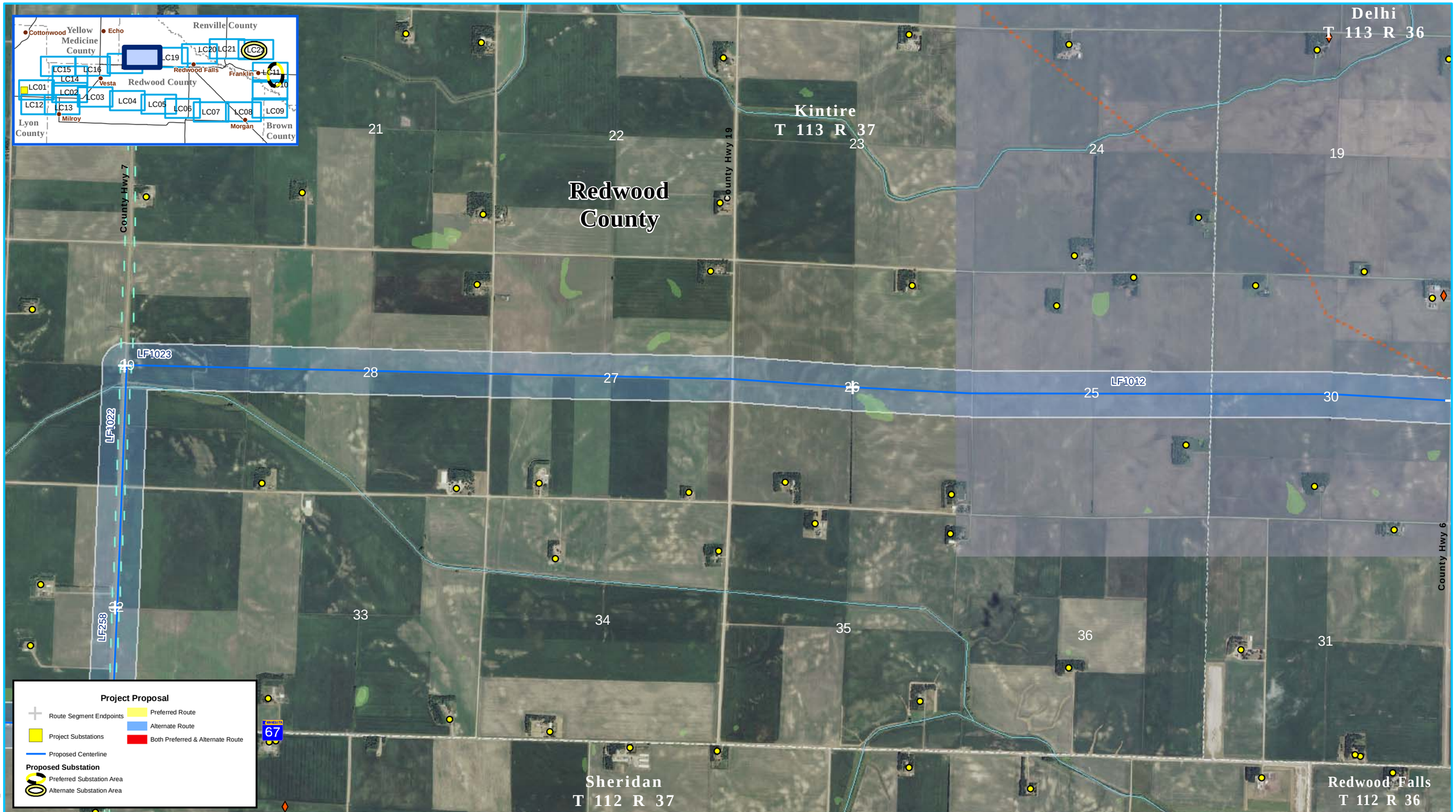

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Existing Substations

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

Data Source: Please refer to Section 12

Appendix B.4 - Sheet LC18
Lyon County Substation to
Cedar Mountain Substation
Detailed Route Maps

Route Permit
Brookings County - Hampton
345 kV Transmission Line

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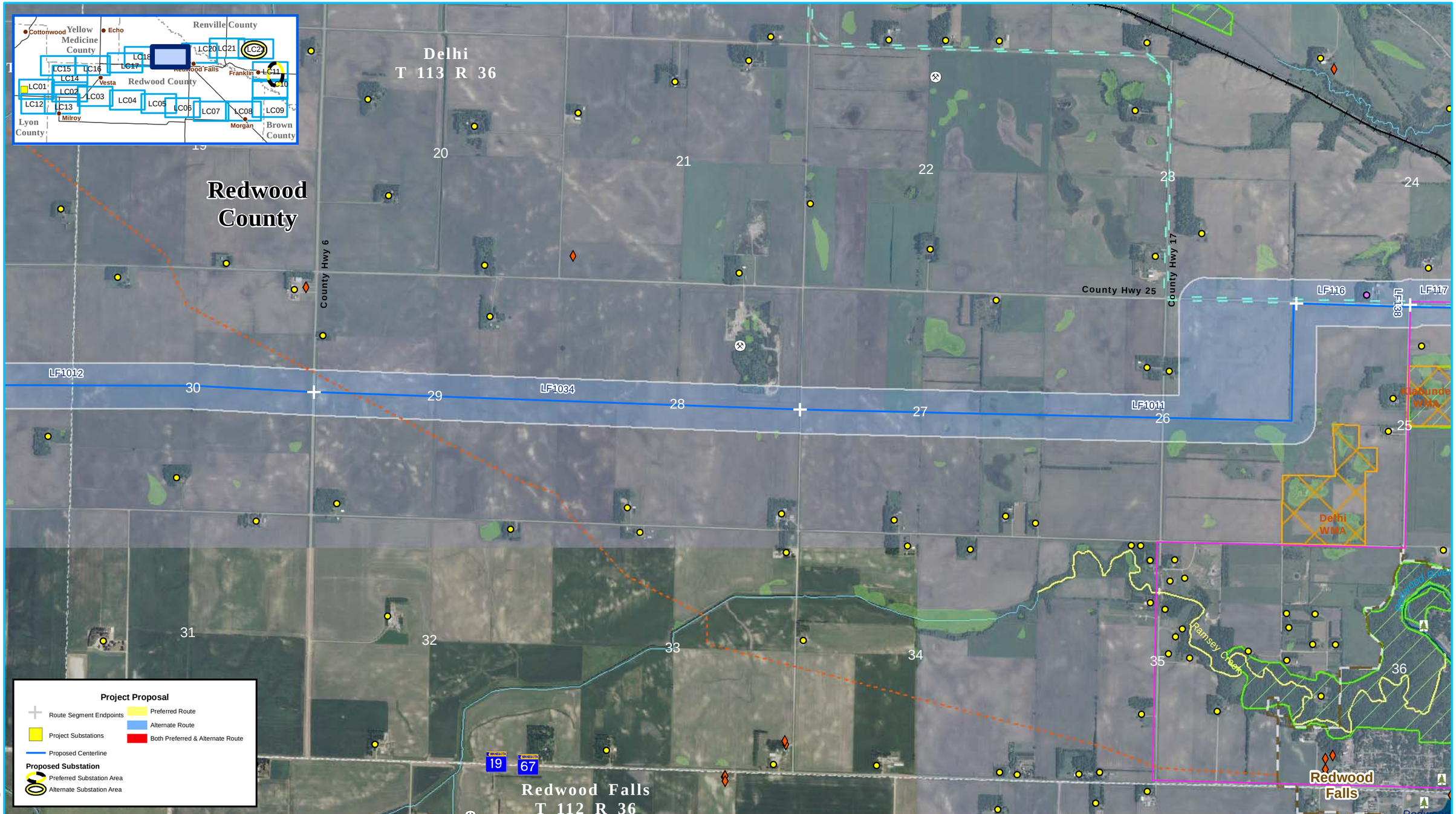

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Existing Substations

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

Data Source: Please refer to Section 12

Appendix B.4 - Sheet LC19
Lyon County Substation to
Cedar Mountain Substation
Detailed Route Maps

Route Permit
Brookings County - Hampton
345 kV Transmission Line

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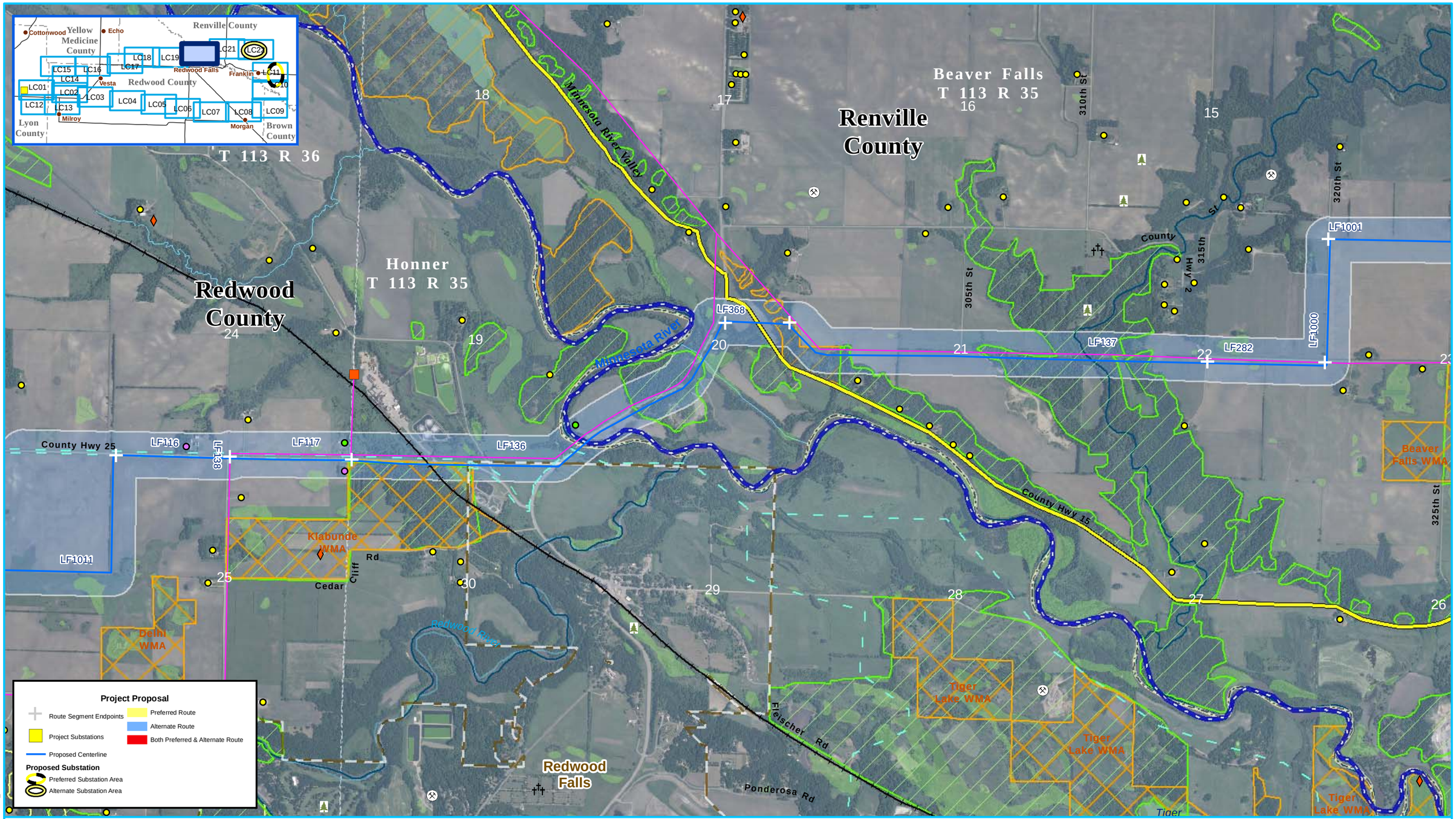

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Existing Substations

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

Data Source: Please refer to Section 12

Appendix B.4 - Sheet LC20
Lyon County Substation to
Cedar Mountain Substation
Detailed Route Maps

Route Permit
Brookings County - Hampton
345 kV Transmission Line

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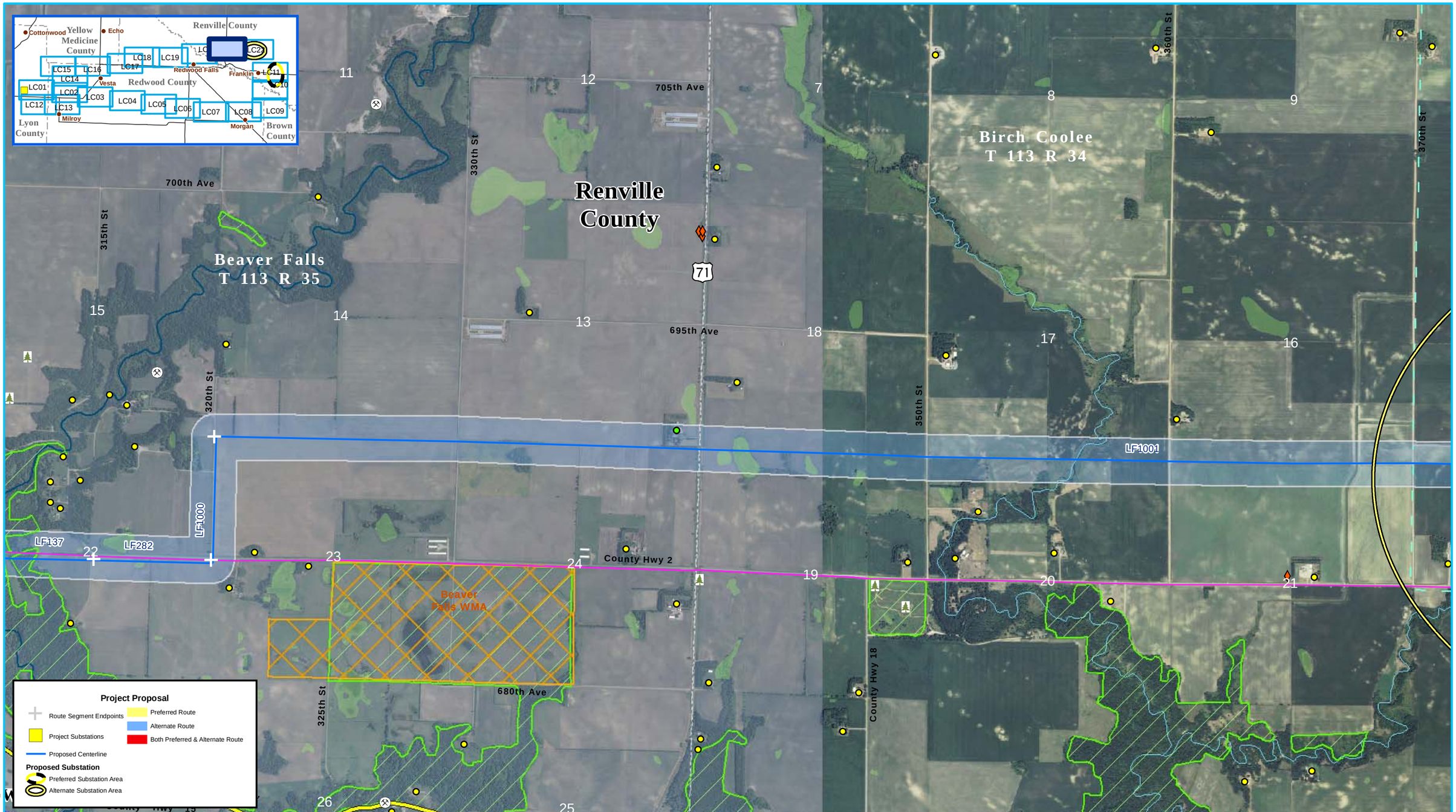

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Existing Substations

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

Data Source: Please refer to Section 12

Appendix B.4 - Sheet LC21
Lyon County Substation to
Cedar Mountain Substation
Detailed Route Maps

Route Permit
Brookings County - Hampton
345 kV Transmission Line

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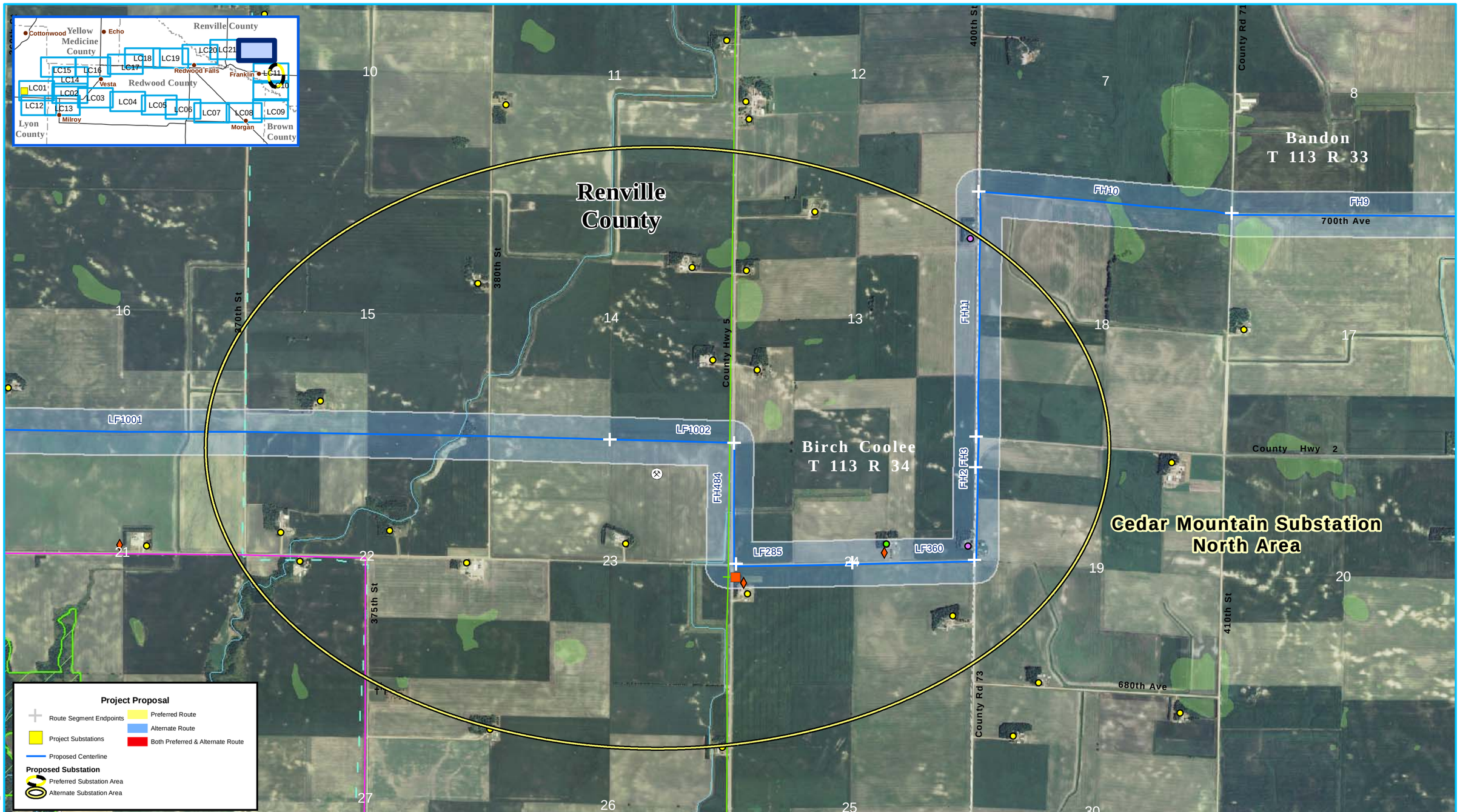

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Existing Substations
Transmission Lines
69 kV - Existing
115 kV - Existing
230 kV - Existing
345 kV - Existing
69 kV - Proposed
115 kV - Proposed
230 kV - Proposed

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.4 - Sheet LC22
Lyon County Substation to
Cedar Mountain Substation
Detailed Route Maps

Route Permit
Brookings County - Hampton
345 kV Transmission Line

Data Source: Please refer to Section 12

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