

Attachment 40 Transmission Project Maps

Brookings – Twin Cities

Fargo – Twin Cities

Twin Cities – La Crosse

Bemidji – Grand Rapids

Chisago – Apple River

North Mankato

Pleasant Valley Byron

Glencoe – Waconia

St. Cloud Loop

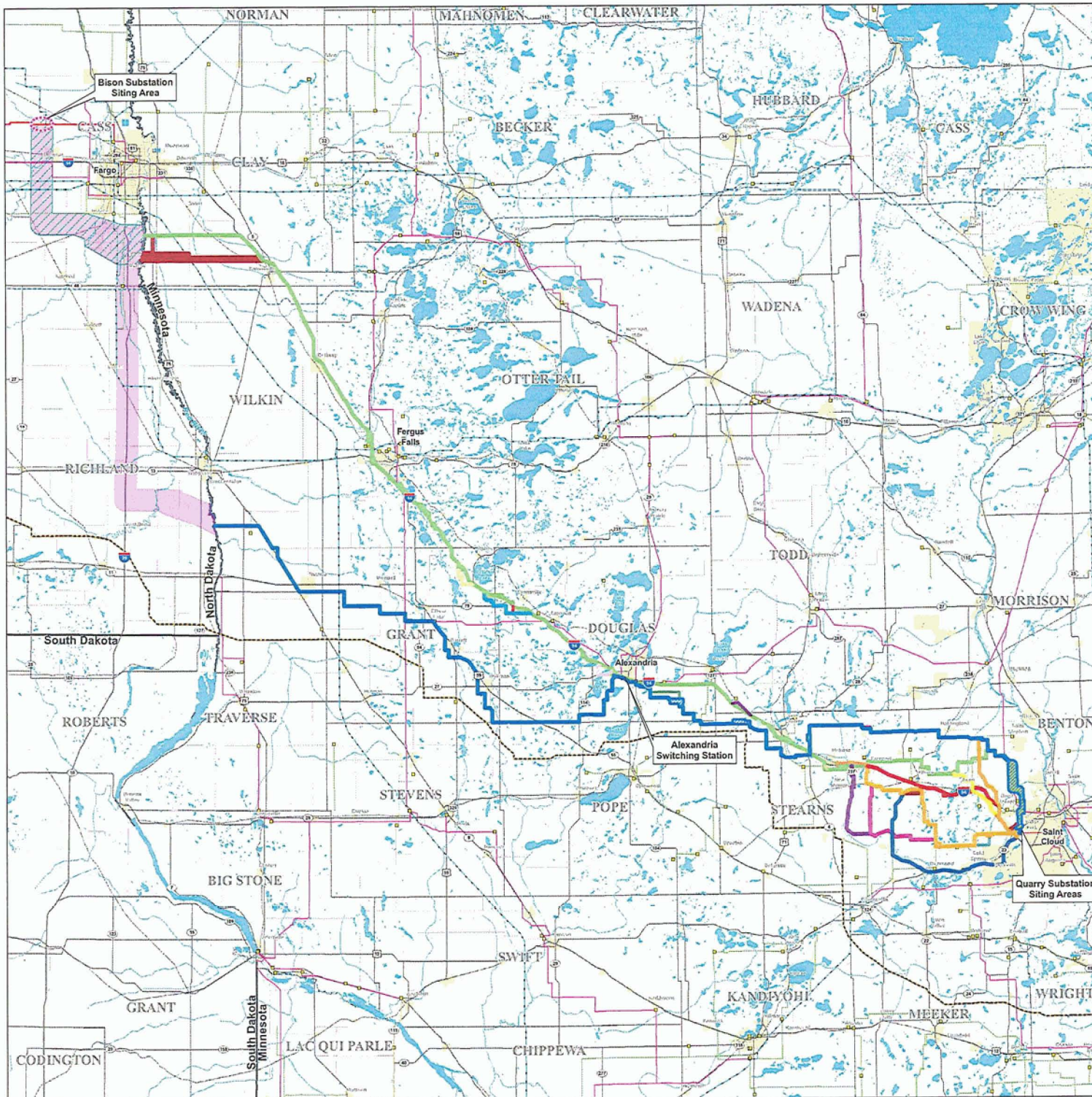
Sioux Falls Northern

Grove Lake – Glenwood & Sauk Center – Osakis

Hiawatha

Hollydale

Meadow Lake



Legend

- | | | |
|--------------------------------------|---------|-----------------------------|
| Applicants' Proposed Routes | Route G | Public Route Options |
| Applicant Preferred Route | Route H | Option 2c |
| Route A | | Option 4 |
| Route E | | Option 5 |
| Option 1 | | Option 7 |
| Option 2b | | Option 8 |
| Option 3 | | Option 9 |
| Option 6 | | Option 10 |
| Applicants' Proposed New Route Areas | | Option 11 |
| | | Option 12 |
| ATF Identified Routes | | |
| Route B | | |
| Route C | | |
| Route D | | |
| Route F | | |

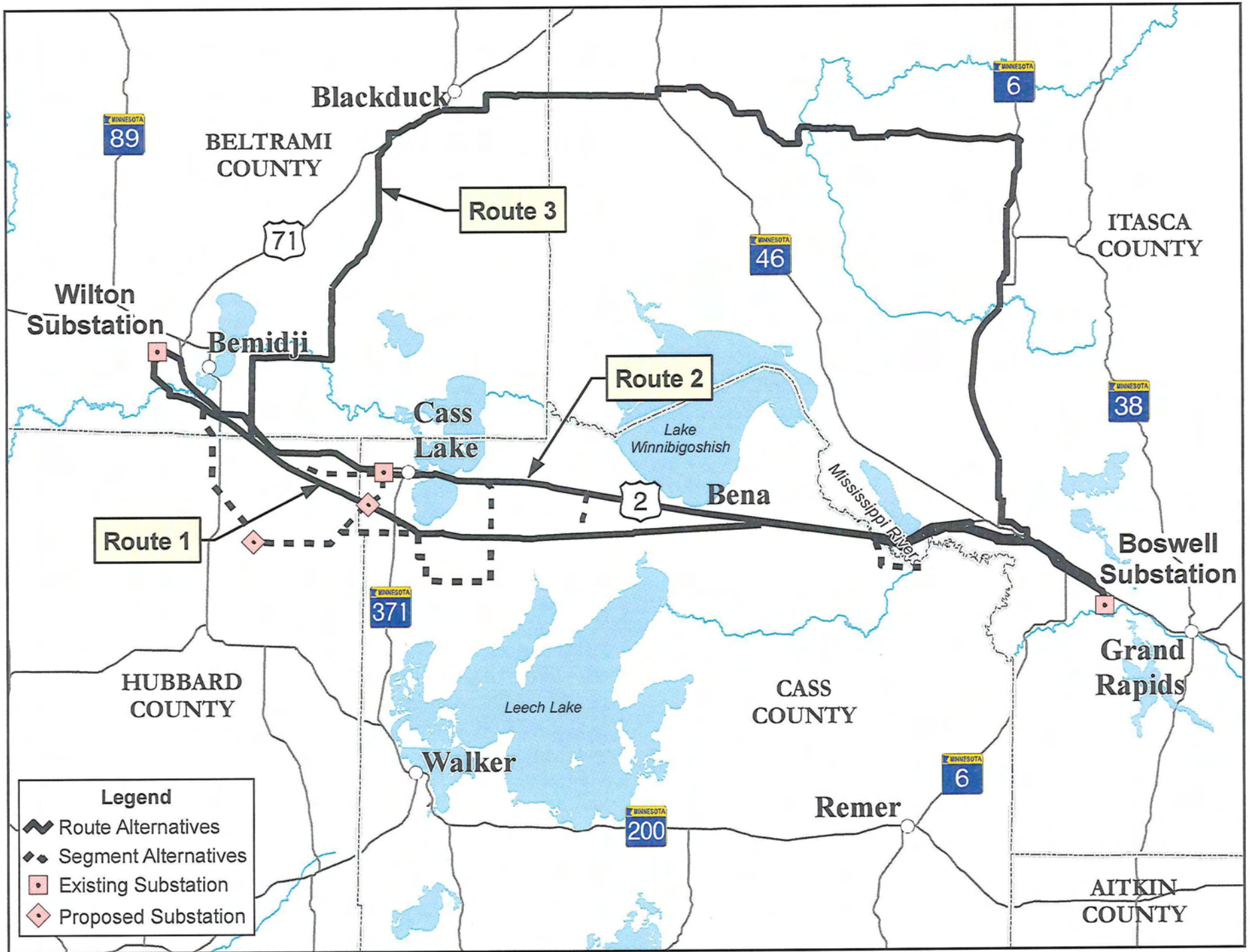
- Bison Substation Siting Area
- ND Corridor Option 1
- ND Corridor Option 2

- Existing Transmission Lines**
- Voltage (kV)
- 400
 - 345
 - 250
 - 230
 - 115
 - 69
- Existing Substations

- Roads**
- Interstate
 - US Highway
 - State Highway
 - County Road / Secondary Road
 - Railroad
 - River / Stream
 - Lake
 - State Boundary
 - County Boundary
 - Municipalities

FARGO TO ST. CLOUD 345 kV Transmission Line Project

Date: 07/26/10	Revised: 07/26/10
W:\GIS\2010\345\CapX\Fargo_StCloud\Map_Series\Map_Series_01_CapX.mxd	Drawn by: MLTEICHERT



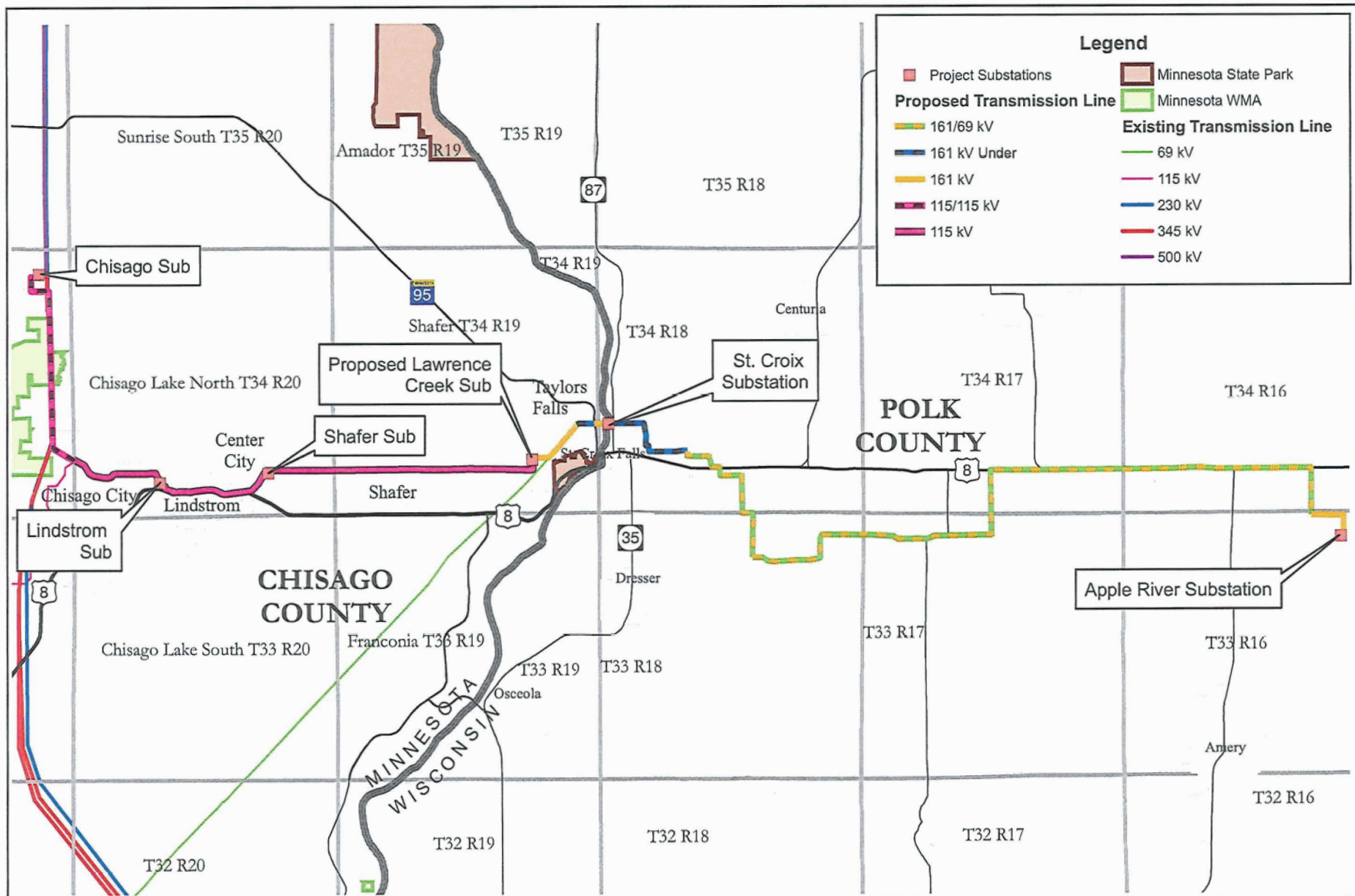


Figure 1 - Project Overview Map
Chisago County to Apple River 115 kV/161 kV Transmission Line Project
Xcel Energy
Chisago County, Minnesota



0 0.75 1.5
Miles



North Mankato Project

2.If South Helena site is approved for Helena Substation (Current Plan)
SCOPE
"Construct Le Sueur 69 kV breaker substation (now called Kelso)
"Construct Helena 345/115/ 69 kV transformer substation at south Helena substation
"Permit and build 5 mile of 69 kV double circuit transmission line from Helena south to St. Thomas
"CON not required

69kV LINE PLANNED TO BE PURCHASED FROM CITY

LOCATION OF KELSO 69kV SUBSTATION

LOCATION OF ST. THOMAS 345/115/69kV SUBSTATION

CapX Helena Substation North Site Option 57 acres

Xcel Transmission
69 kV
345 kV

Foreign Transmission
69 kV

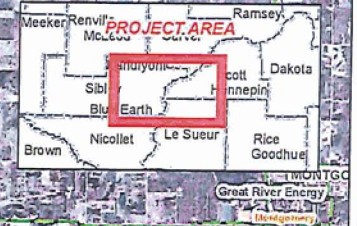
Xcel Substation
Foreign Substation

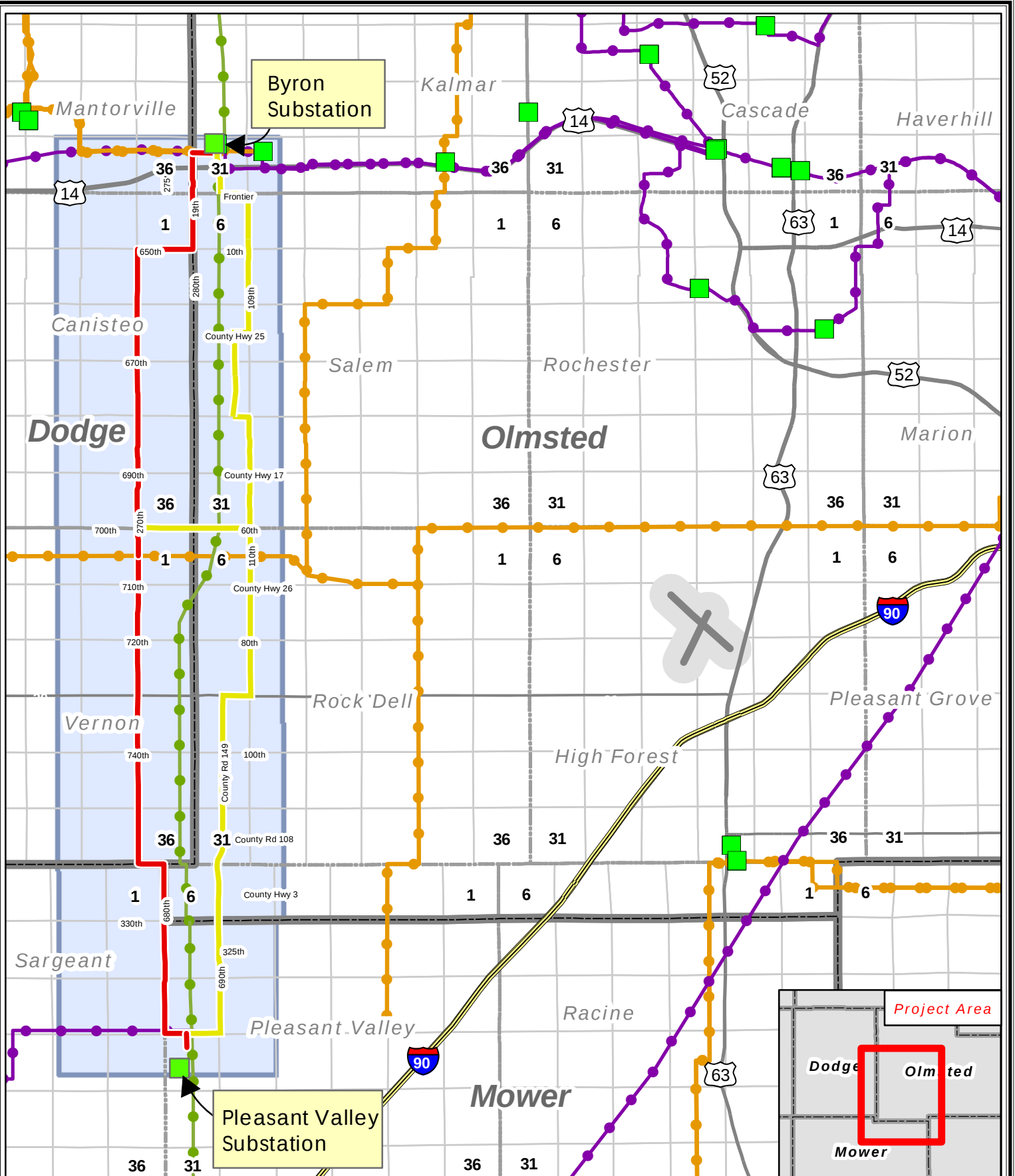
Proposed Substation

Proposed CapX Corridor
County Boundary
Municipal Boundary



0 0.5 1 2 3 Miles





Xcel Energy
RESOURCES BY NATURE

Map produced by:
 Northern States Power Company-Minnesota,
 an Xcel Energy Company
 Siting and Land Rights -- jwl/wkc

DRAFT: October 1, 2009
Routes Added: October 1, 2009

Proposed Routes

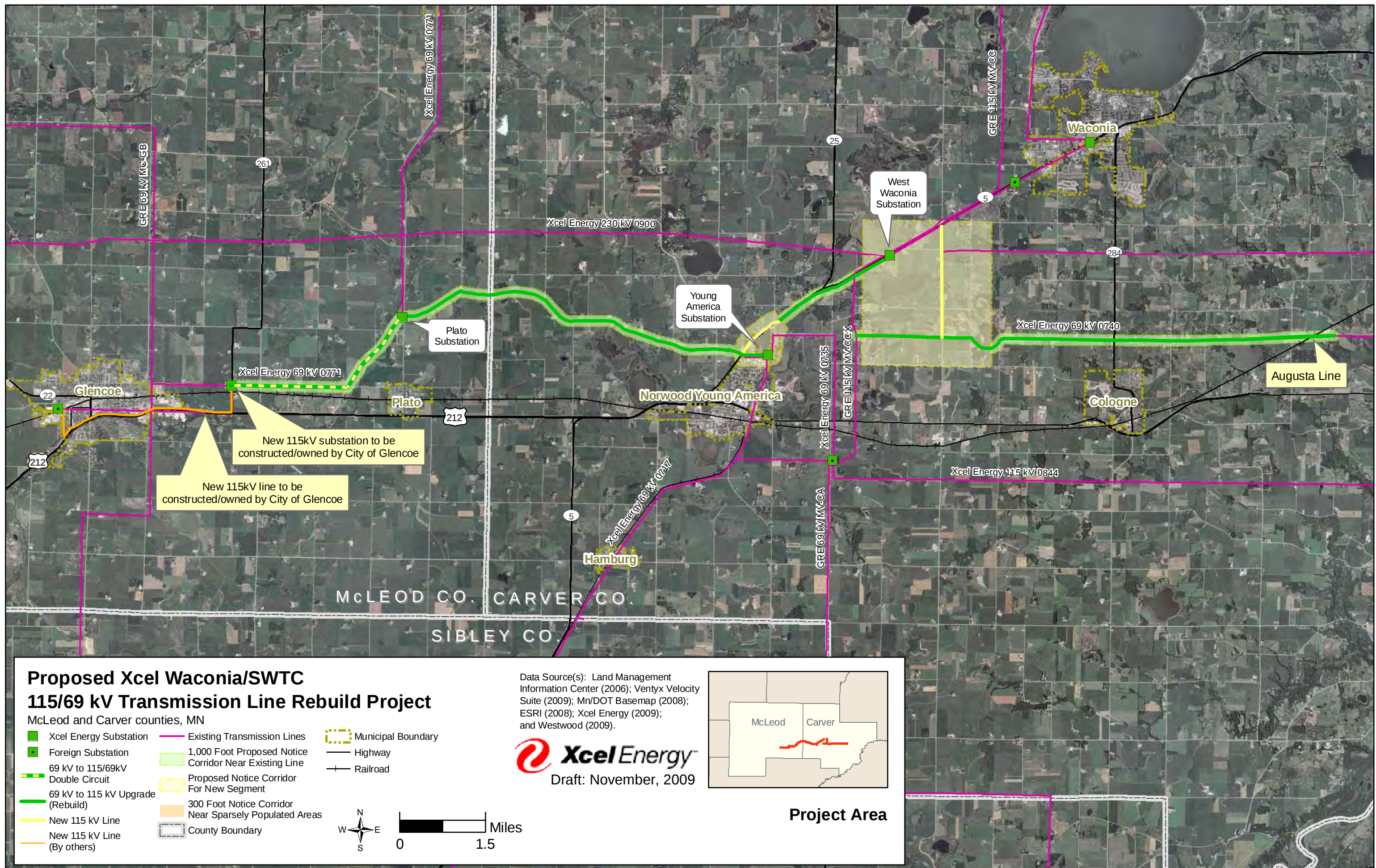
- Preferred
- Alternate

- Notice Corridor
- Existing 69 kV
- Existing 161 kV
- Existing 345 kV
- Substation
- Airport

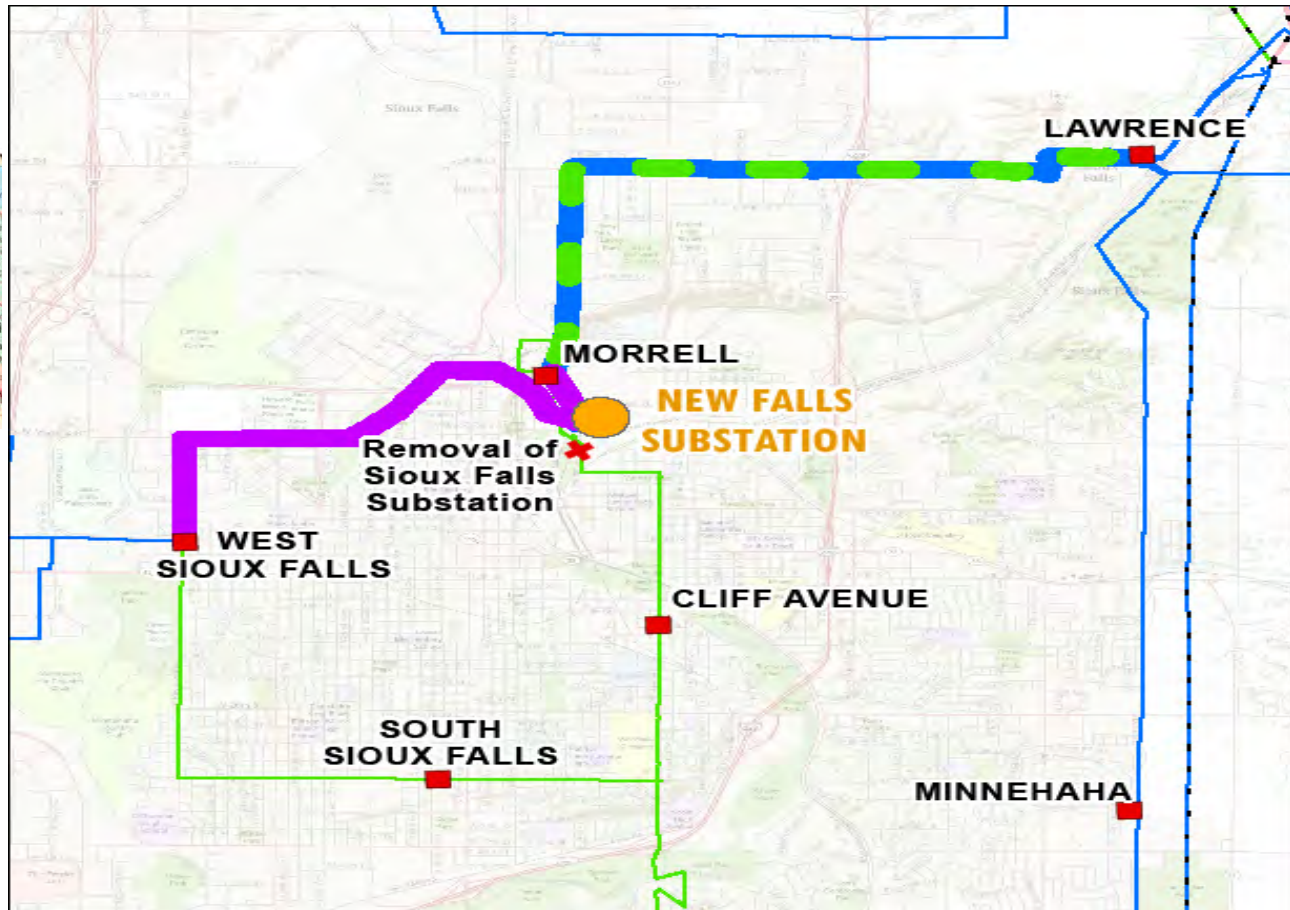
Notice Corridor **Proposed Pleasant Valley to Byron** **Transmission 161kV Line**

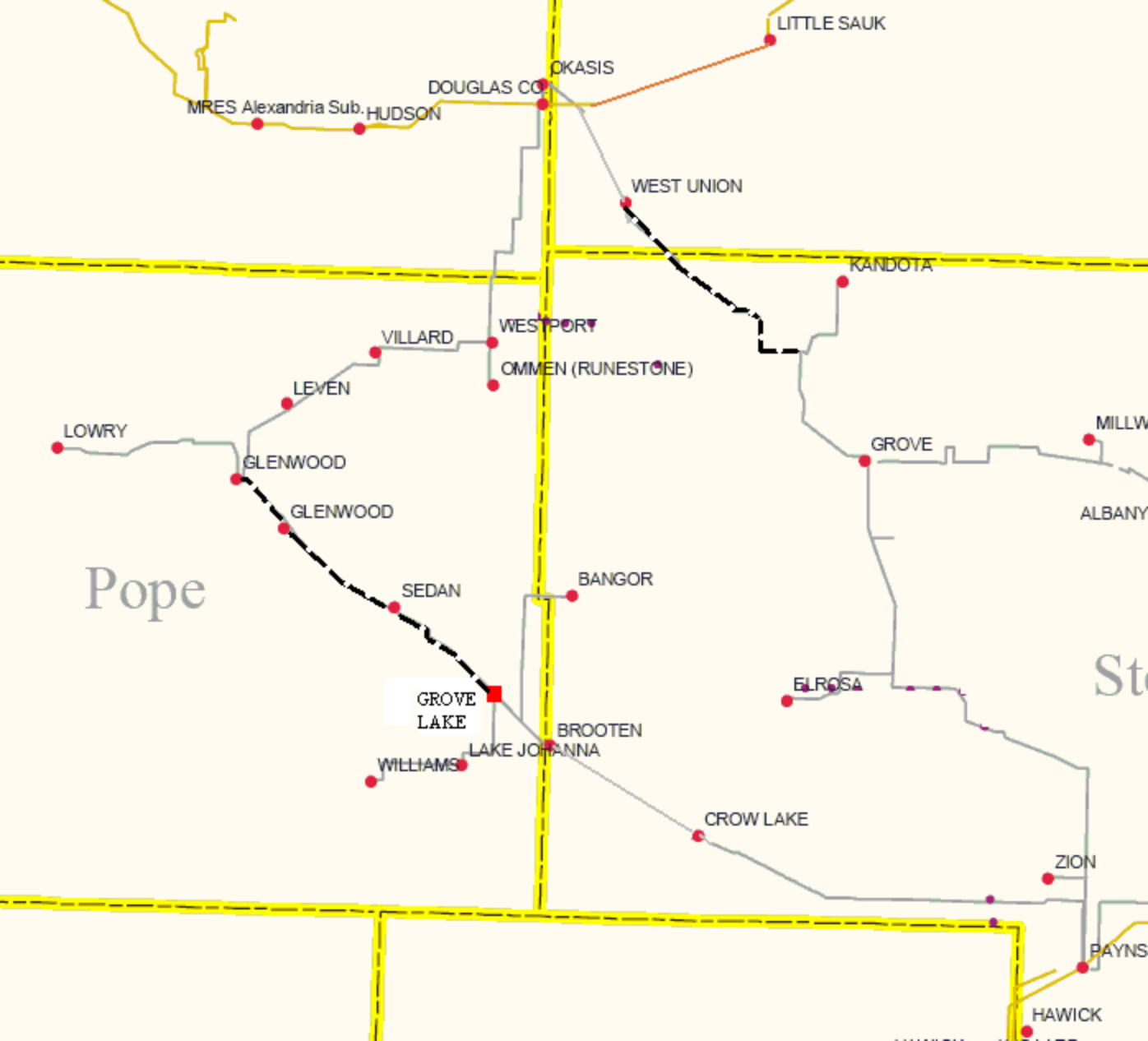
Miles
 0 0.5 1

North Arrow

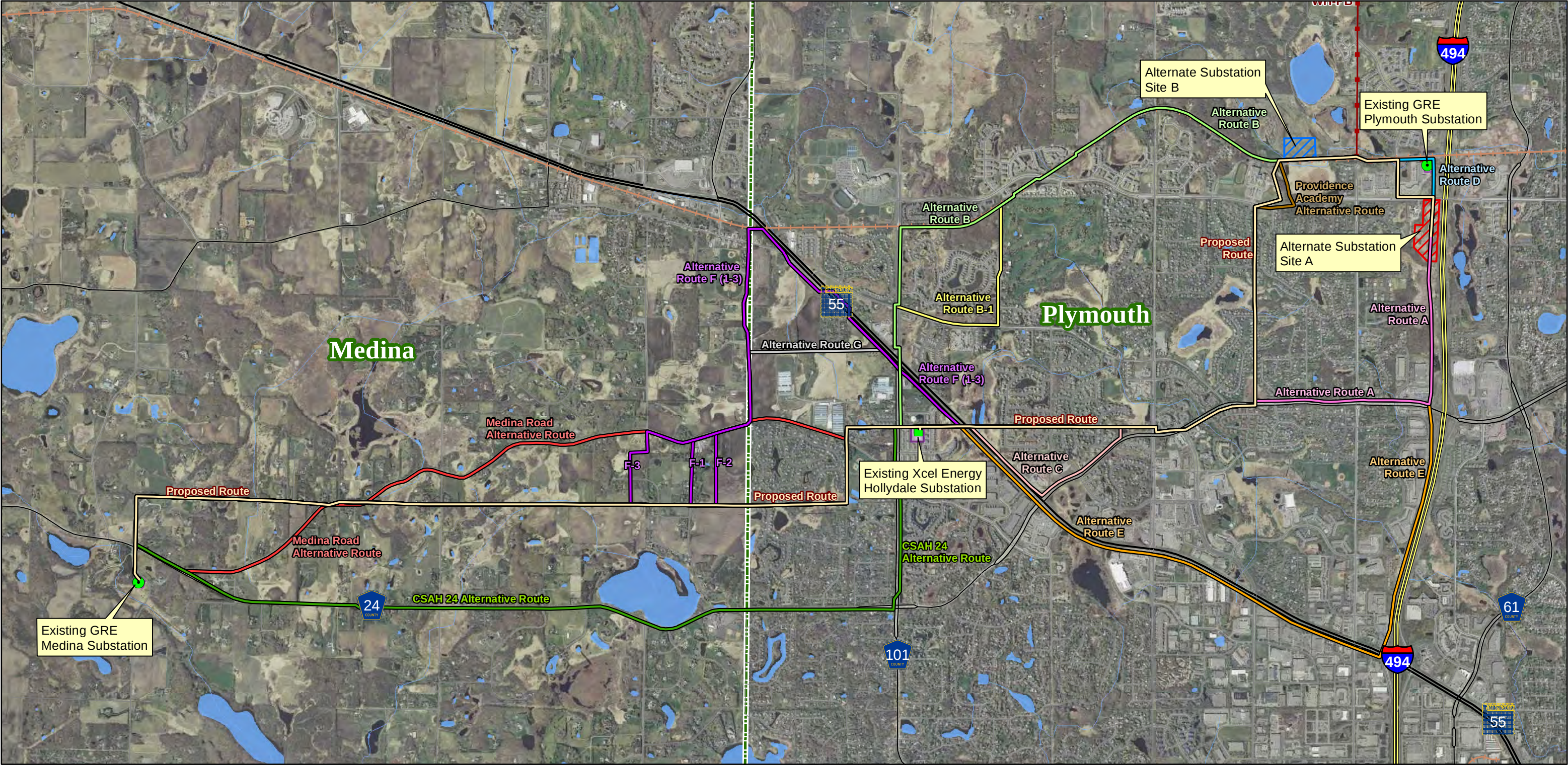


Sioux Falls Northern 115 kV Loop









- Proposed Route
- Alternative Route A
- Alternative Route B
- Alternative Route B-1
- Alternative Route C
- Alternative Route D
- Alternative Route E
- Alternative Route F (1-3)
- Alternative Route G
- Full CSAH 24 Alternative Route
- Medina Road Alternative Route
- Providence Academy Alternative Route

- Existing Xcel Energy Substation
- Existing GRE Substation
- GRE Transmission Line WH-PB
- Railroad
- Alternate Substation Site A
- Alternate Substation Site B
- Existing Substation Site
- Municipality

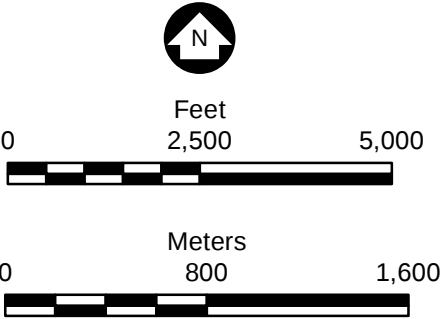


Figure 1
ROUTE ALIGNMENTS
Hollydale 115 kVProject

Meadow Lake Distribution Interconnection Project

