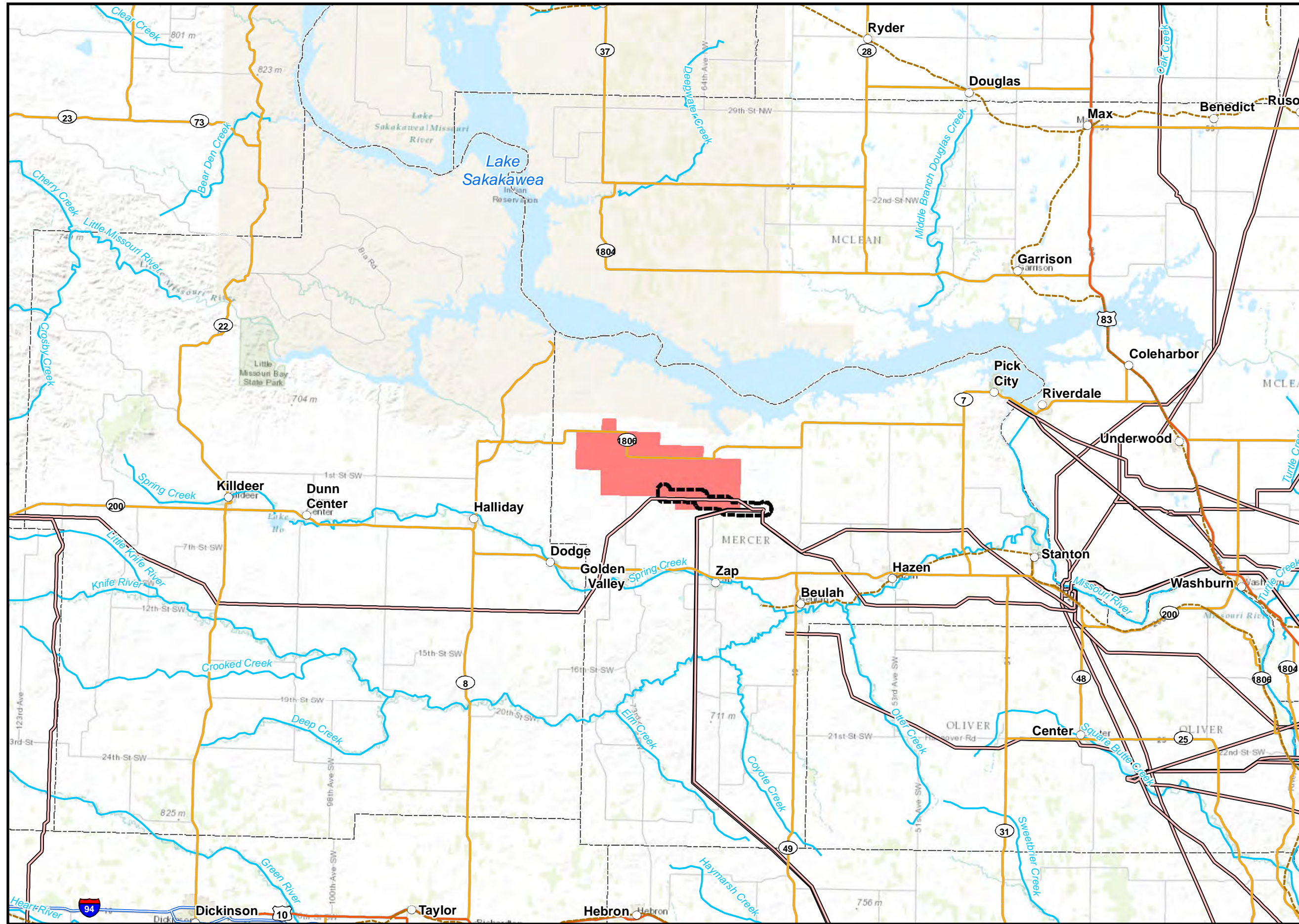


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Figure 1
Project Location

Mercer County, ND
Amended, October 2014

- Project Area
- Proposed Corridor
- County Boundary
- Existing Transmission Line (Over 230 kV)
- Railroad
- Interstate Highway
- Federal Highway
- State Highway
- Stream or River
- City/Town



17 PU-14-679 Filed 10/14/2014 Pages: 30
Revised maps
Antelope Hills Wind Project, LLC
Brian Bjella, Crowley Fleck, PLLP











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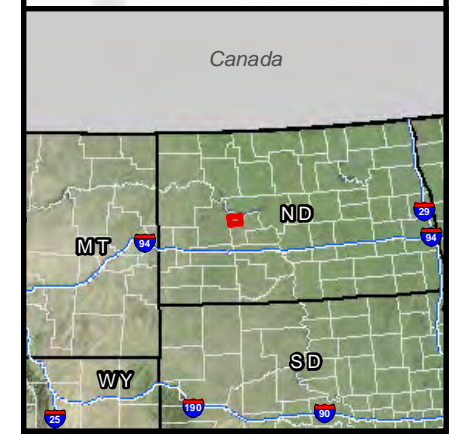
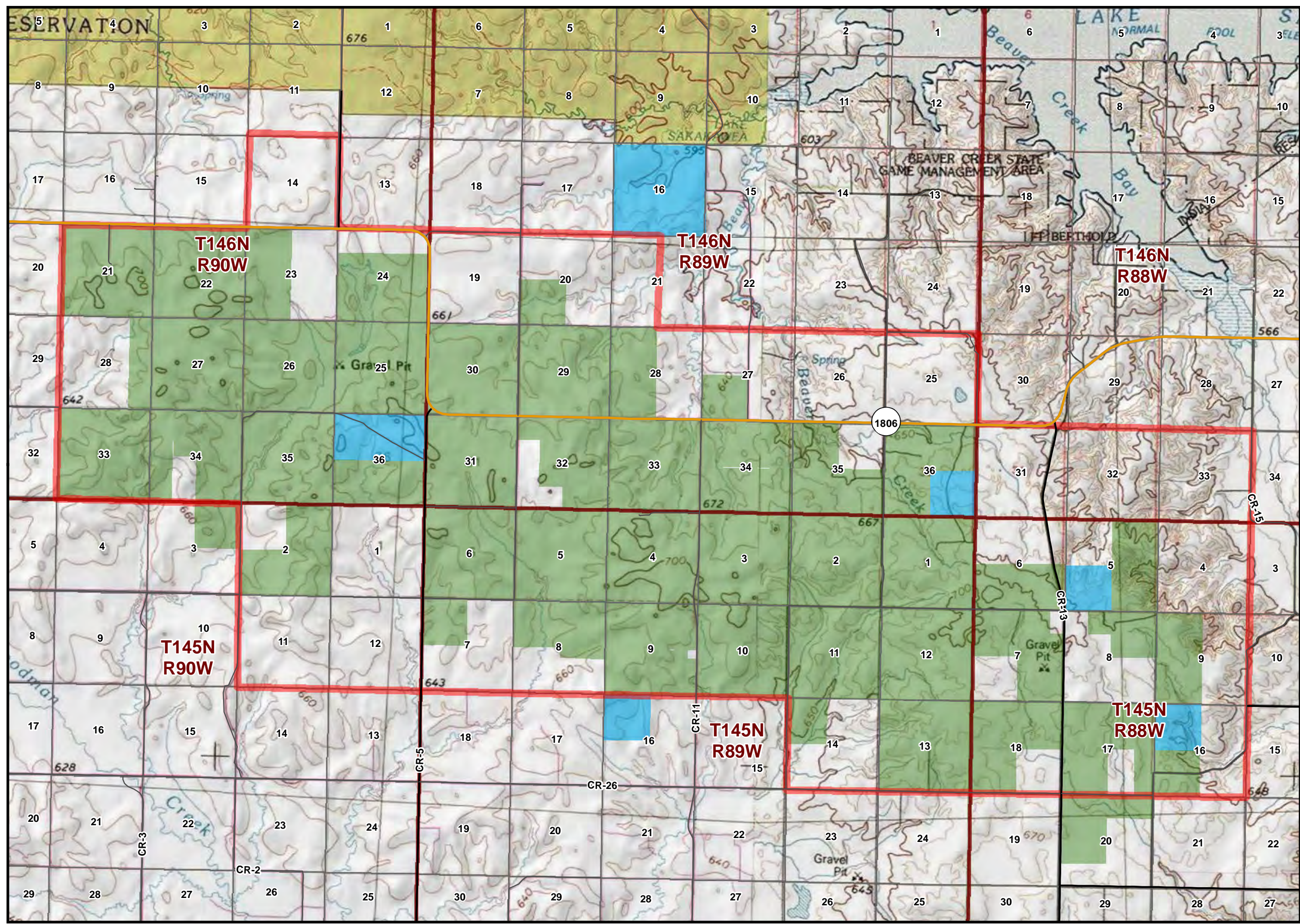


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Figure 2
Project Area
Participating Landowners by
Township, Range and Section

Mercer County, ND
Amended, October 2014

-  Project Area
-  Participating Landowner
-  State Land
-  Township/Range
-  Section
-  State Highway
-  County Major Collector Road
-  Other County Road




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NAD_1983_StatePlane_North_Dakota_South_FIPS_3302_Feet








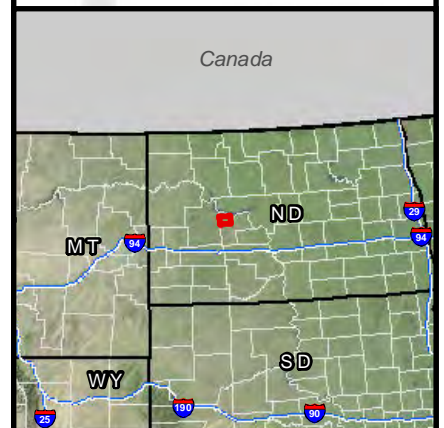
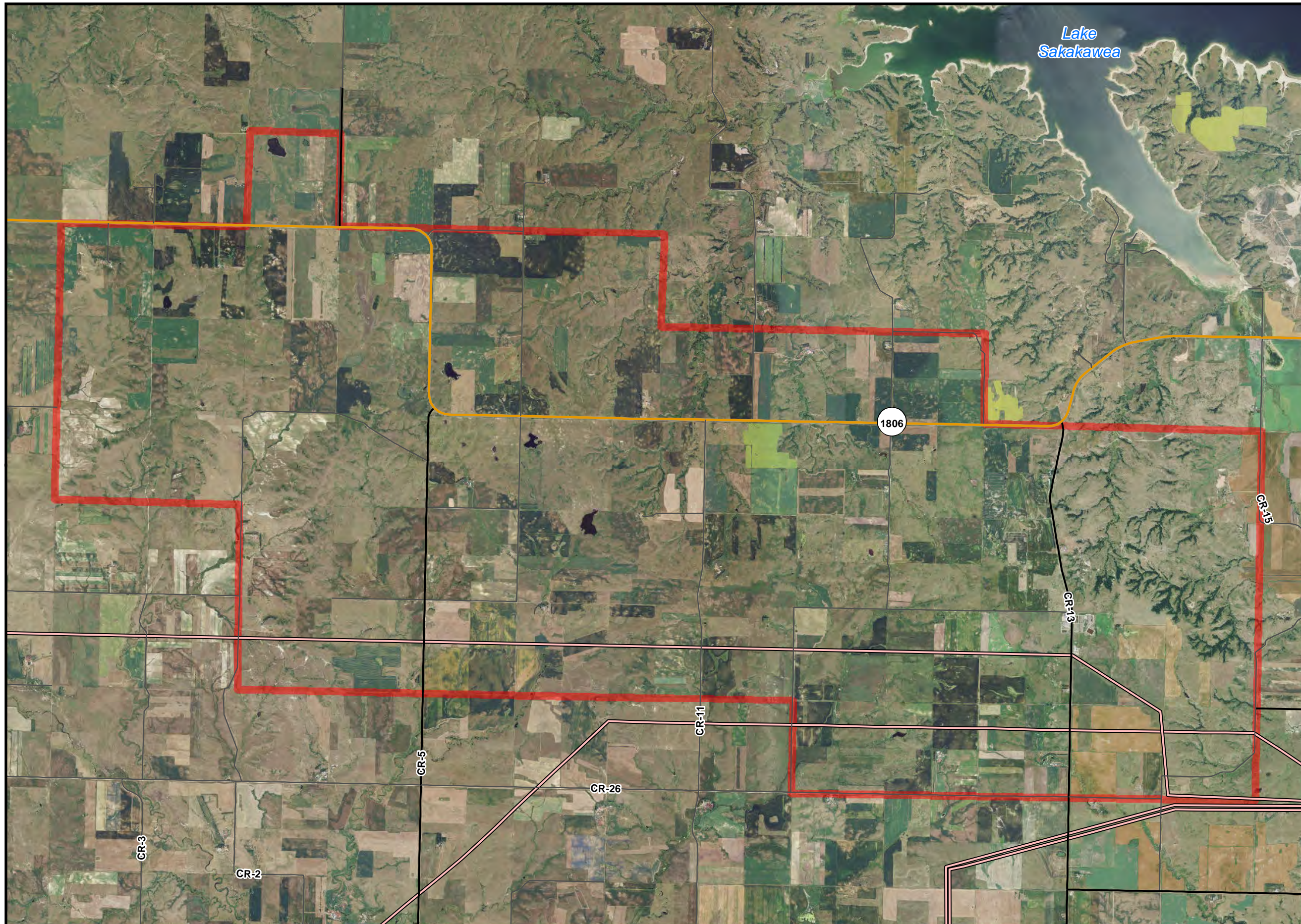
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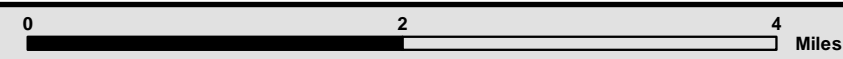
Figure 3
Project Area
Aerial Image

Mercer County, ND
Amended, October 2014

-  Project Area
-  Existing Transmission Line (Over 230 kV)
-  State Highway
-  County Major Collector Road
-  Other County Road



1:65,000 NAD_1983_StatePlane_North_Dakota_South_FIPS_3302_Feet








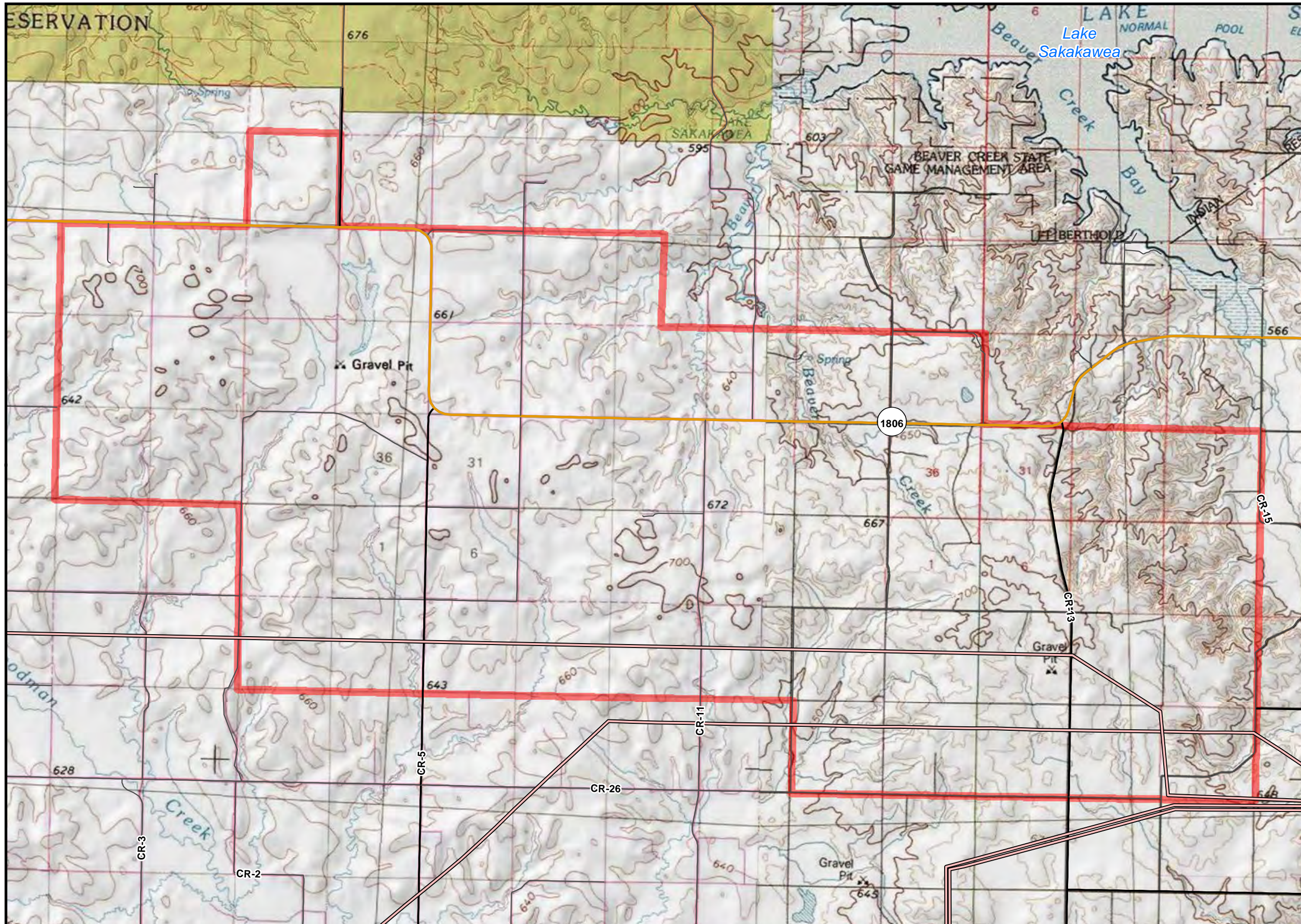
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Figure 4
Project Area
Topographic Image

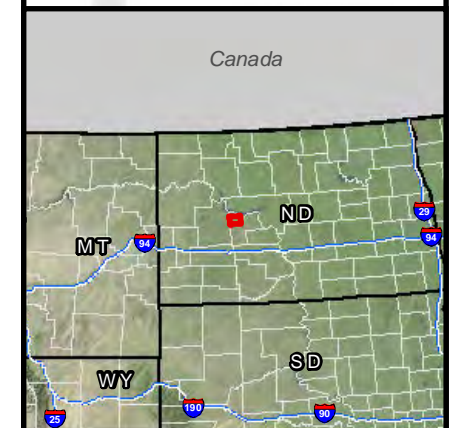
Mercer County, ND
Amended, October 2014

-  Project Area
-  Existing Transmission Line (Over 230 kV)
-  State Highway
-  County Major Collector Road
-  Other County Road



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0 2 4 Miles



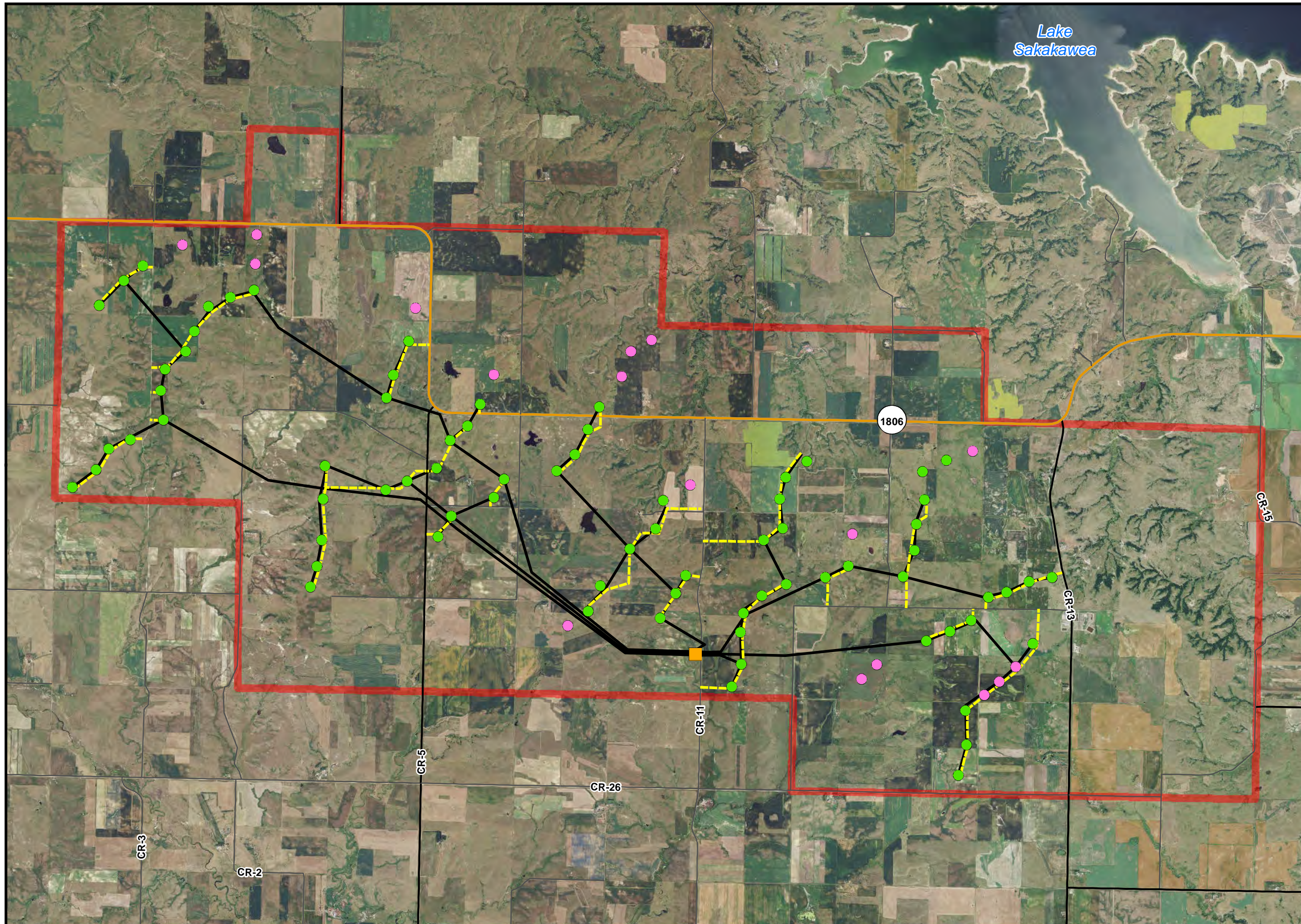
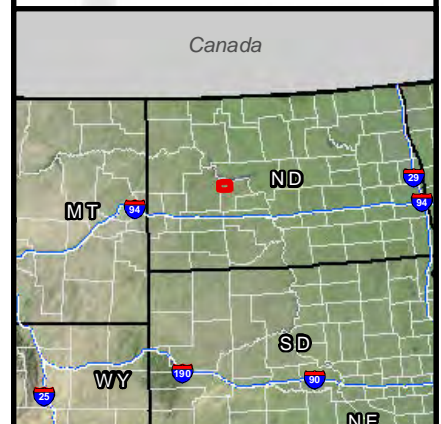
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Figure 5A
Project Layout
Siemens 2.3-108

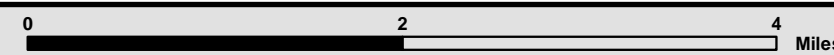
Mercer County, ND
Amended, October 2014

- Project Area
- Proposed Substation
- Turbine Location*
- Alternate Turbine Location*
- Approximate Underground Collection System Routing
- Approximate Access Road Routing
- State Highway
- County Major Collector Road
- Other County Road

*The Project would utilize up to 75 Siemens 2.3-108 turbines; however, 92 potential turbine locations are included on this figure to account for alternate locations that may be used.



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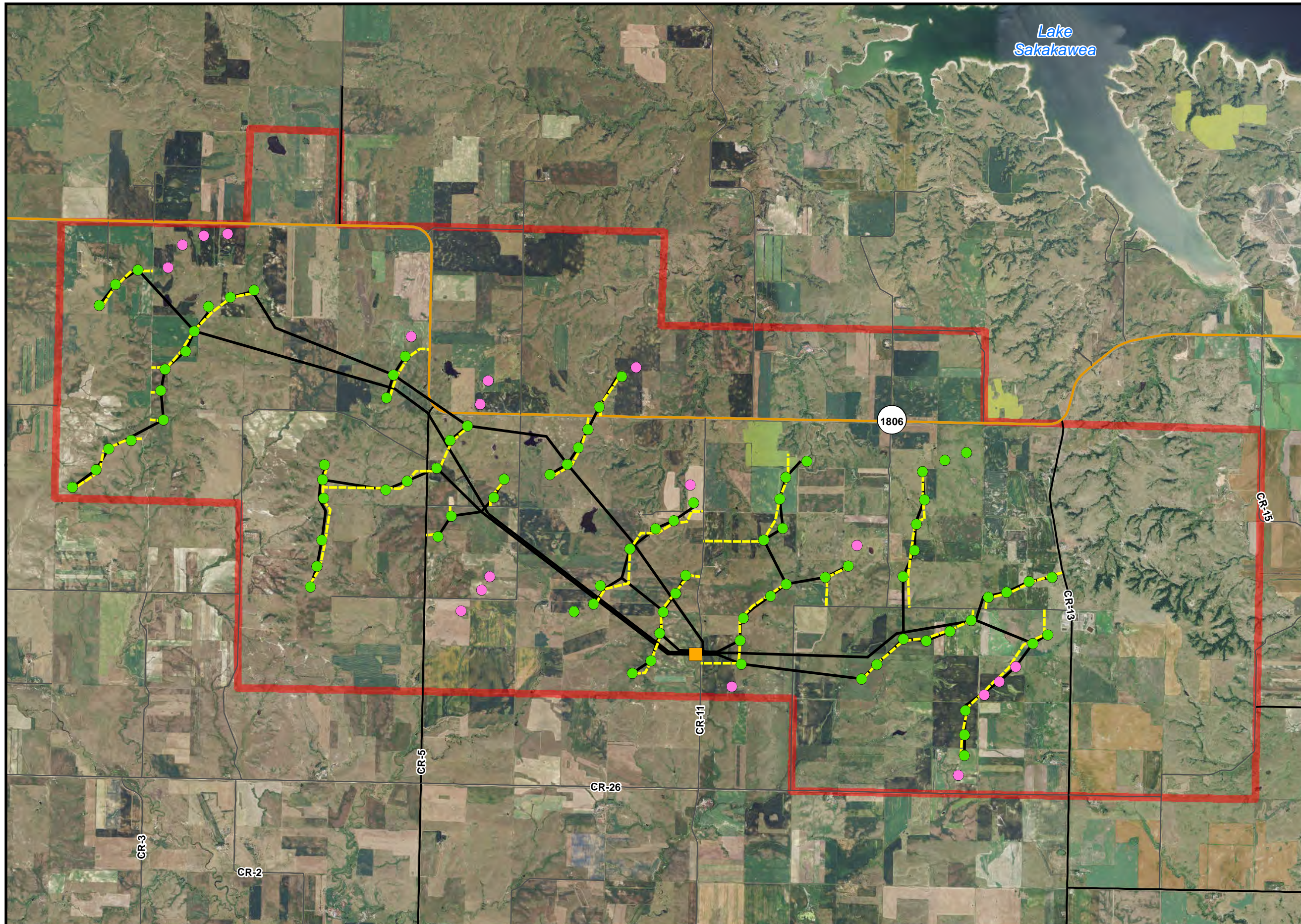
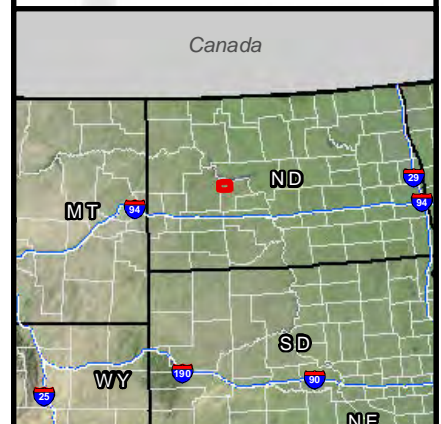
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Figure 5B
Project Layout
Vestas V-100

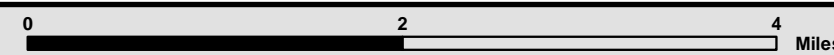
Mercer County, ND
Amended, October 2014

- Project Area
- Proposed Substation
- Turbine Location*
- Alternate Turbine Location*
- Approximate Underground Collection System Routing
- Approximate Access Road Routing
- State Highway
- County Major Collector Road
- Other County Road

*The Project would utilize up to 86 Vestas V-100 turbines; however, 105 potential turbine locations are included on this figure to account for alternate locations that may be used.












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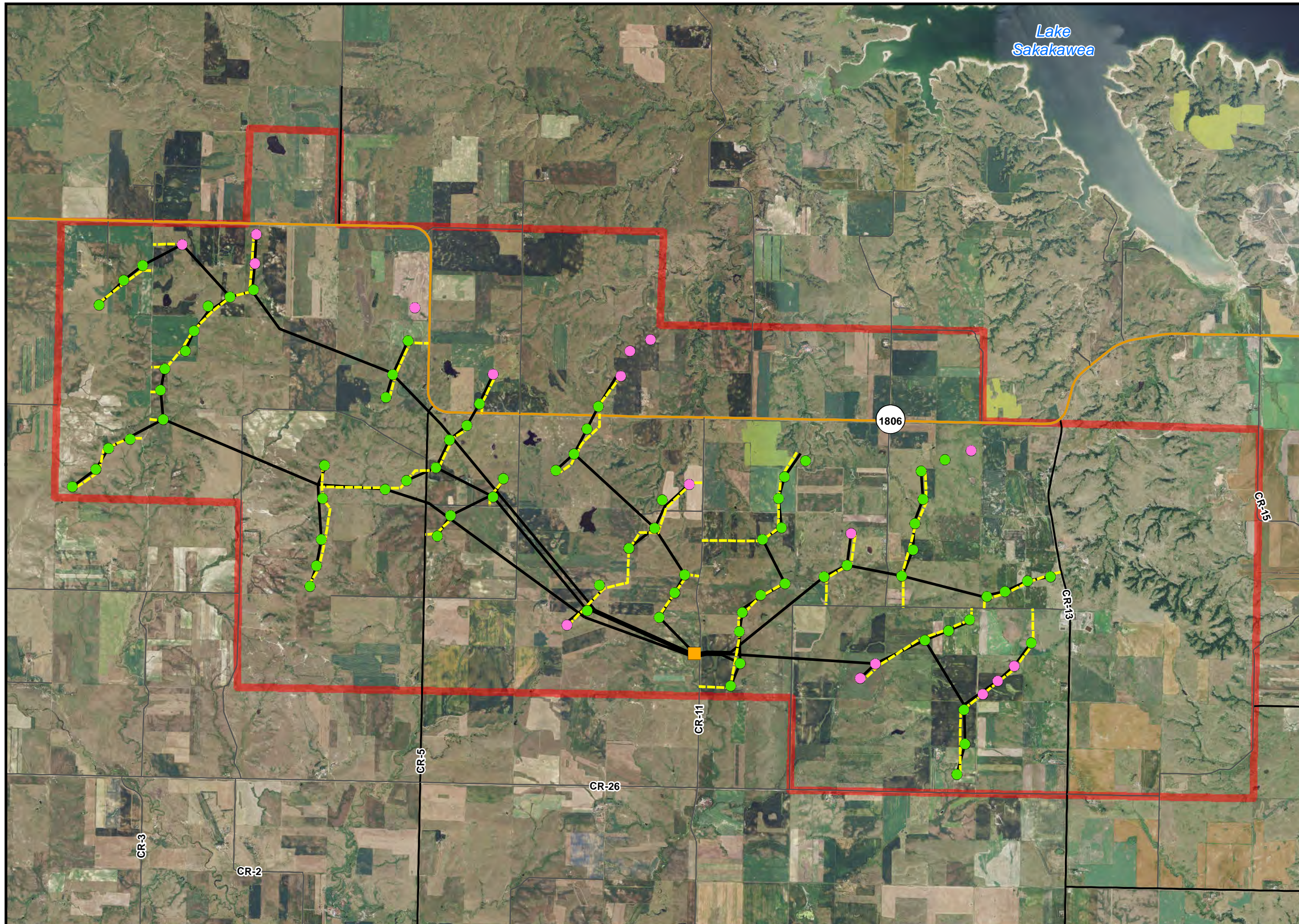
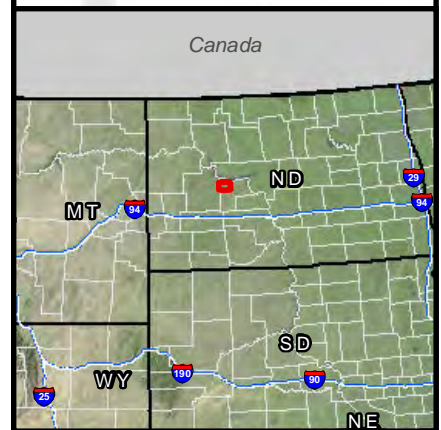
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Figure 5C
Project Layout
Vestas V-110

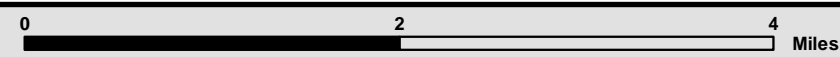
Mercer County, ND
Amended, October 2014

-  Project Area
-  Proposed Substation
-  Turbine Location*
-  Alternate Turbine Location*
-  Approximate Underground Collection System Routing
-  Approximate Access Road Routing
-  State Highway
-  County Major Collector Road
-  Other County Road

*The Project would utilize up to 86 Vestas V-110 turbines; however, 92 potential turbine locations are included on this figure to account for alternate locations that may be used.



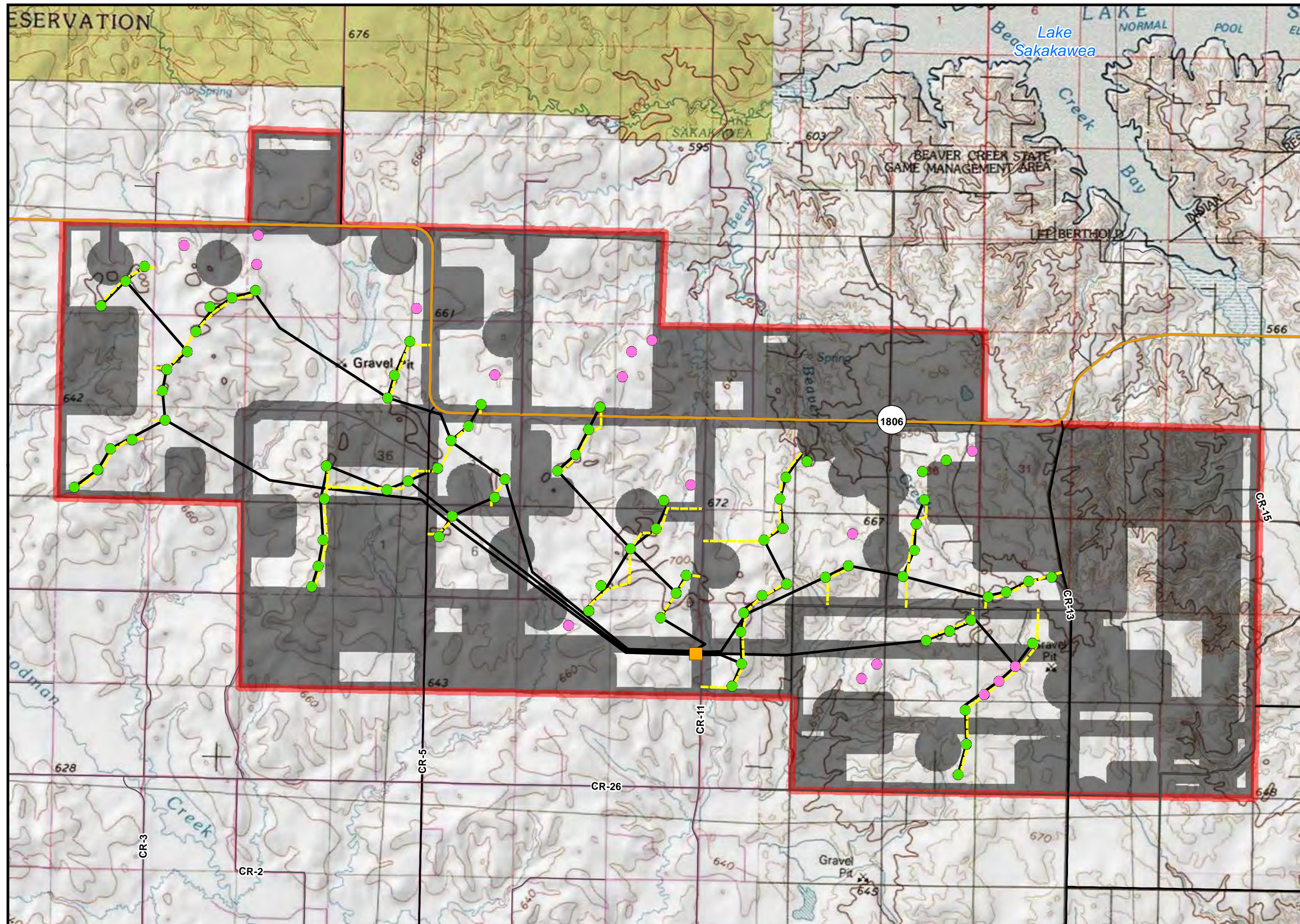
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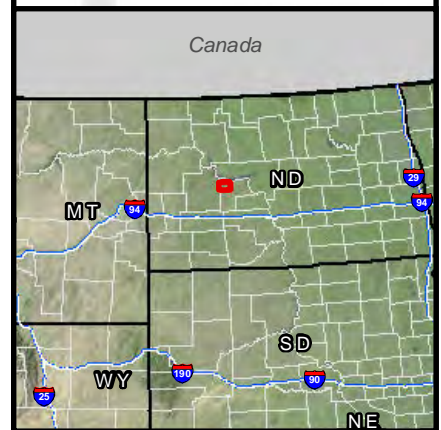
Figure 6A
Exclusion and
Avoidance Areas
Siemens 2.3-108

Mercer County, ND
Amended, October 2014

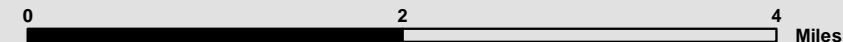


- Project Area
- Proposed Substation
- Turbine Location*
- Alternate Turbine Location*
- Approximate Underground Collection System Routing
- Approximate Access Road Routing
- State Highway
- County Major Collector Road
- Other County Road
- Exclusion Area

*The Project would utilize up to 75 Siemens 2.3-108 turbines; however, 92 potential turbine locations are included on this figure to account for alternate locations that may be used.



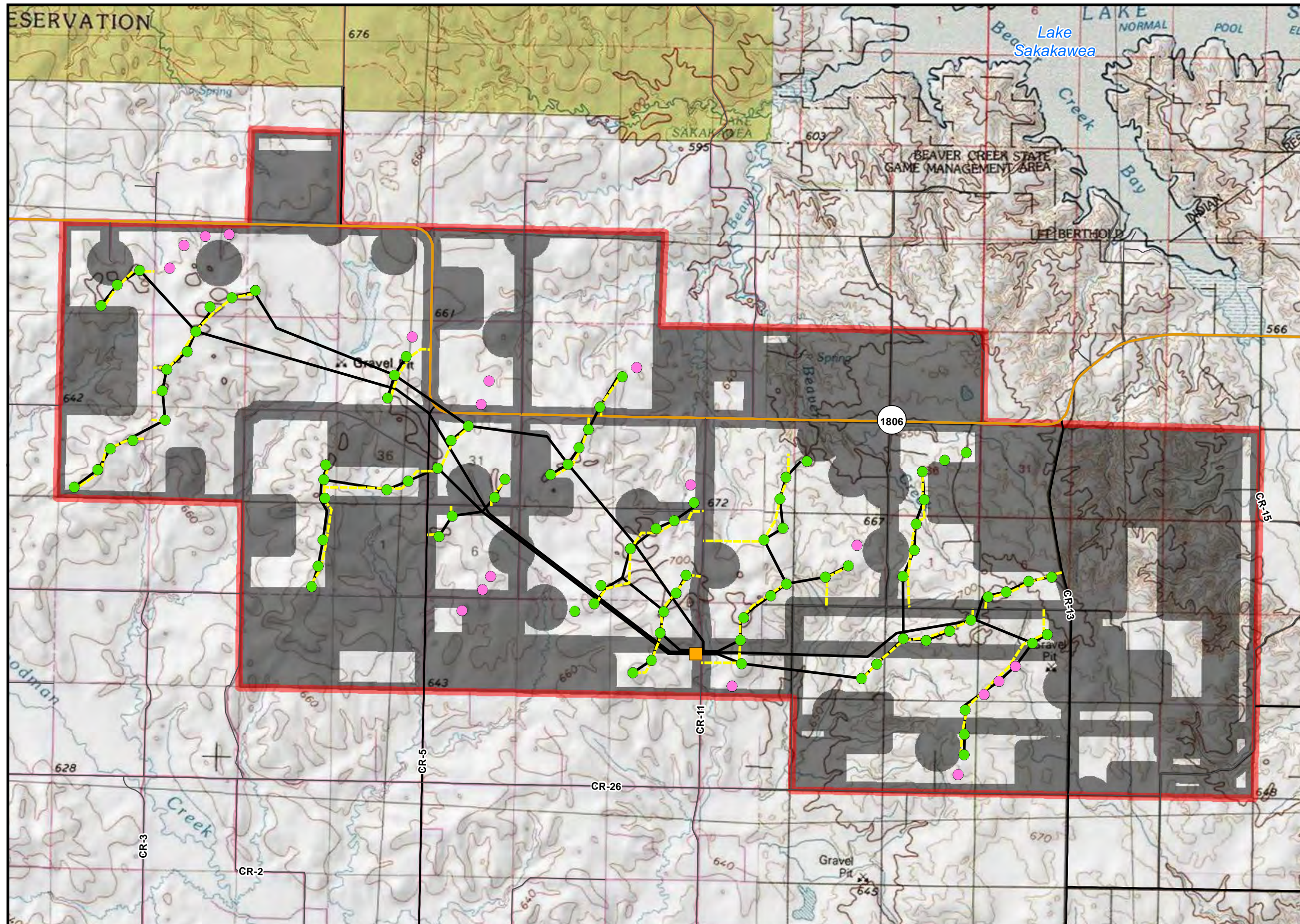
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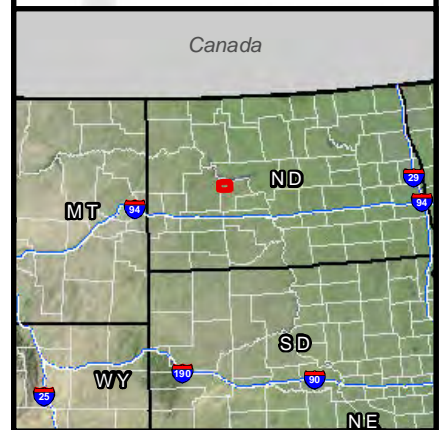
Figure 6B
Exclusion and
Avoidance Areas
Vestas V-100

Mercer County, ND
Amended, October 2014



- Project Area
- Proposed Substation
- Turbine Location*
- Alternate Turbine Location*
- Approximate Underground Collection System Routing
- Approximate Access Road Routing
- State Highway
- County Major Collector Road
- Other County Road
- Exclusion Area

*The Project would utilize up to 86 Vestas V-100 turbines; however, 105 potential turbine locations are included on this figure to account for alternate locations that may be used.



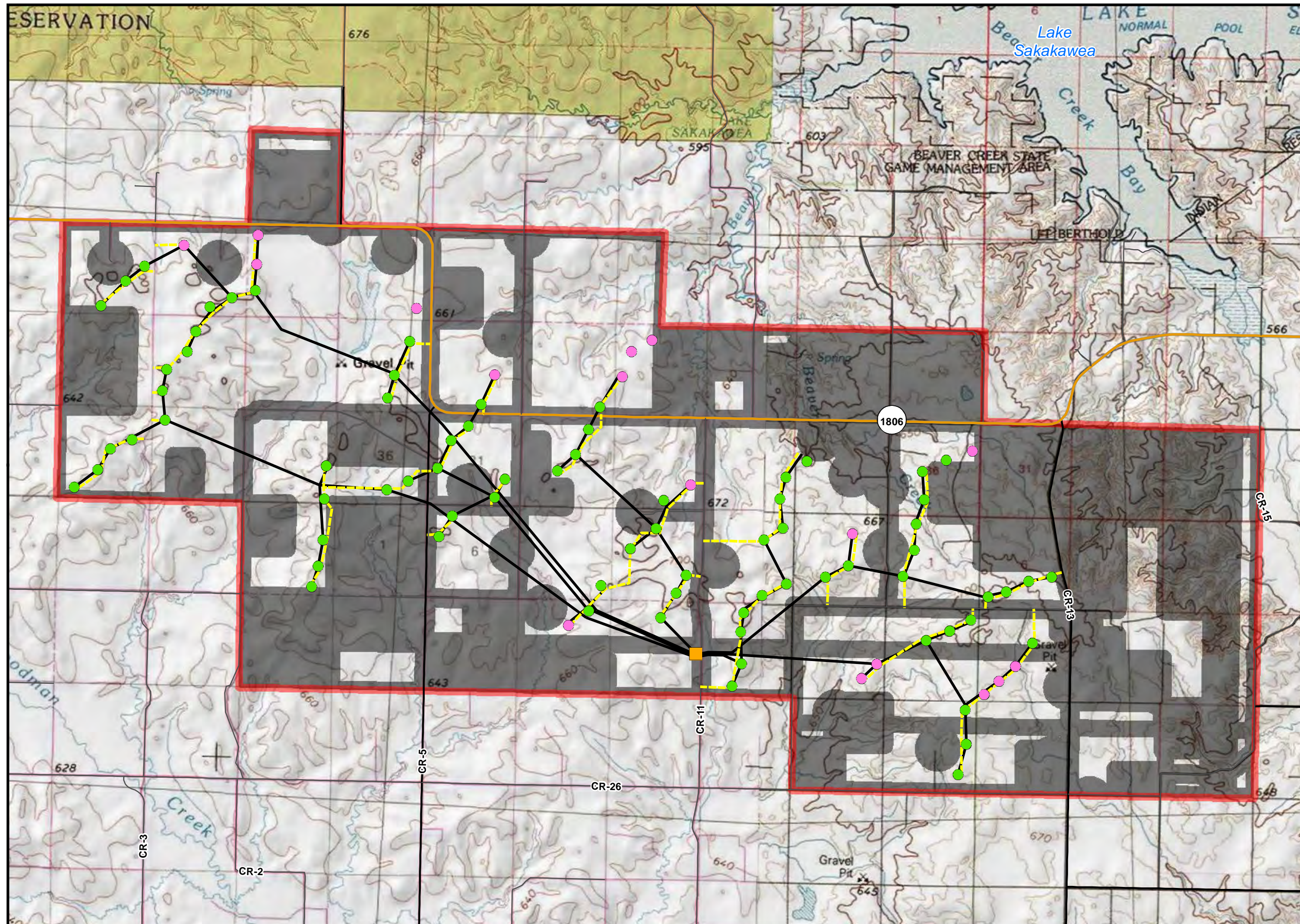
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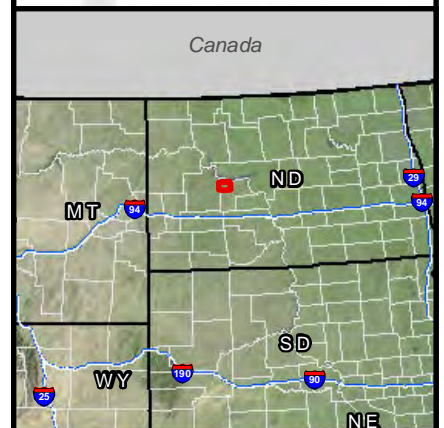
Figure 6C
Exclusion and
Avoidance Areas
Vestas V-110

Mercer County, ND
Amended, October 2014

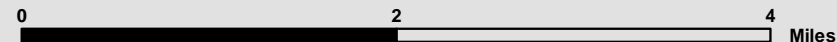


- Project Area
- Proposed Substation
- Turbine Location*
- Alternate Turbine Location*
- Approximate Underground Collection System Routing
- Approximate Access Road Routing
- State Highway
- County Major Collector Road
- Other County Road
- Exclusion Area

*The Project would utilize up to 86 Vestas V-110 turbines; however, 92 potential turbine locations are included on this figure to account for alternate locations that may be used.



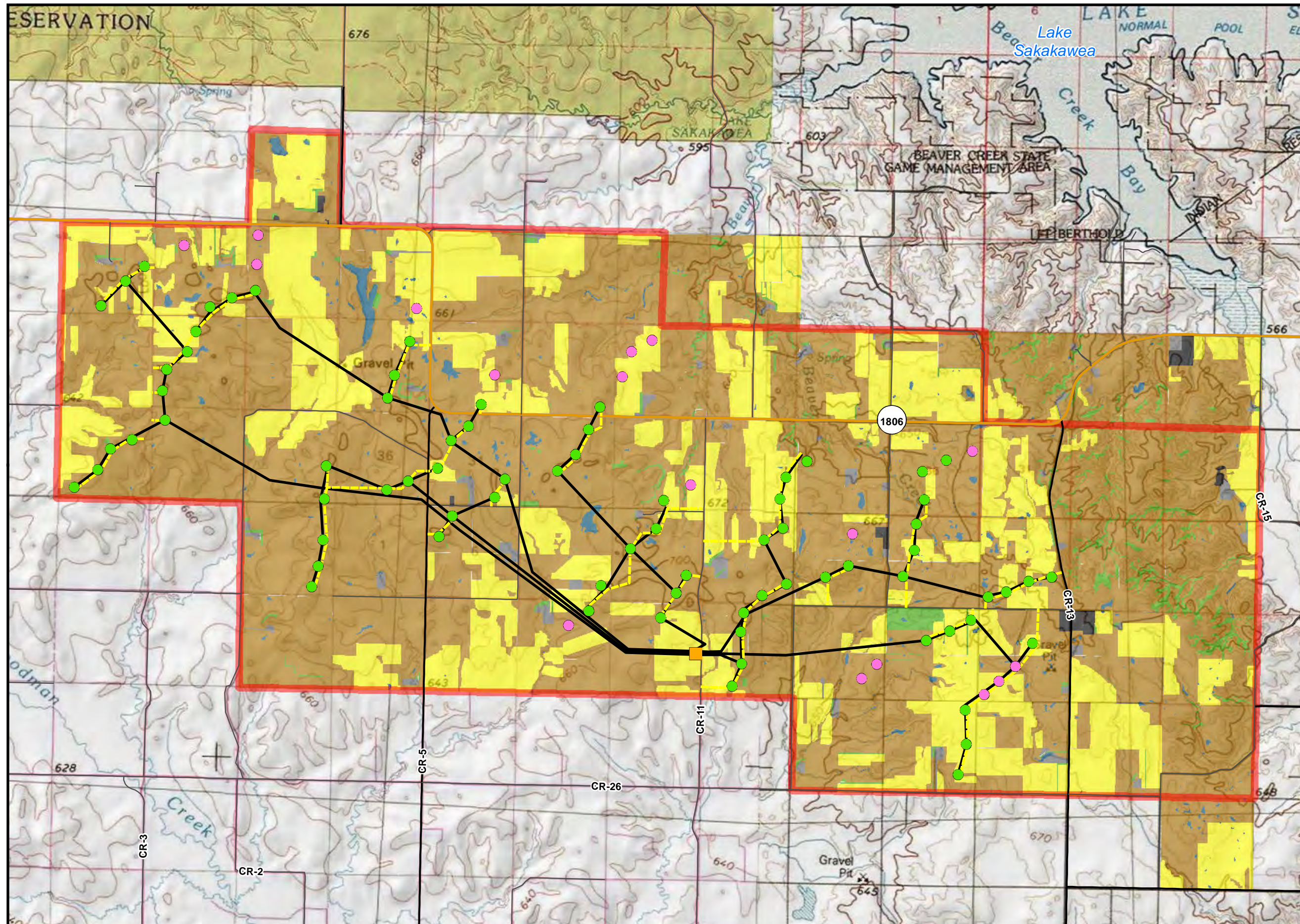
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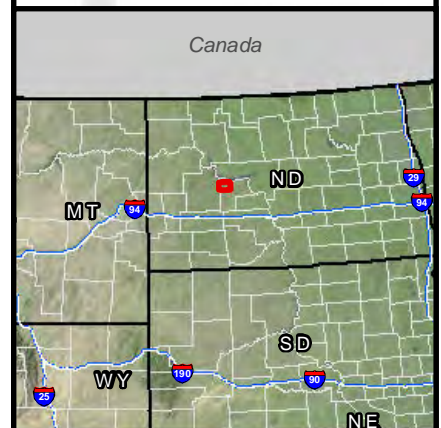
Figure 8A
WEST Land Cover Map
Siemens 2.3-108

Mercer County, ND
Amended, October 2014

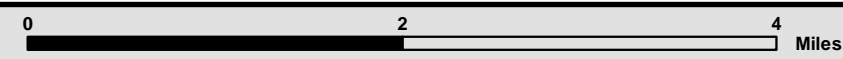


- Project Area
 - Proposed Substation
 - Turbine Location*
 - Alternate Turbine Location*
 - Approximate Underground Collection System Routing
 - Approximate Access Road Routing
 - State Highway
 - County Major Collector Road
 - Other County Road
- Land Cover**
- Agriculture
 - Developed
 - Farmsteads/Rural Homes
 - Grassland
 - Shrubs/Trees
 - Wetlands

*The Project would utilize up to 75 Siemens 2.3-108 turbines; however, 92 potential turbine locations are included on this figure to account for alternate locations that may be used.



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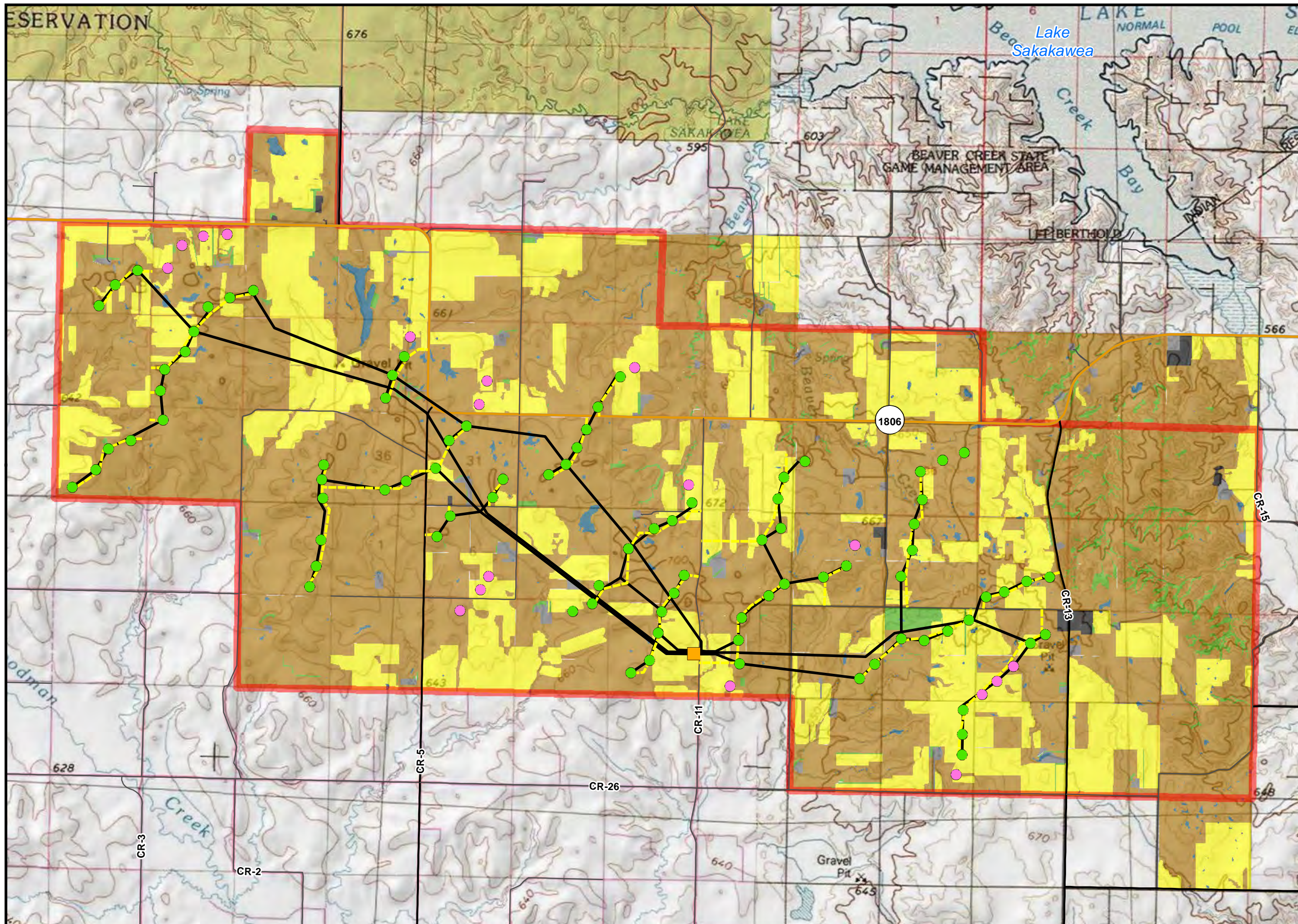
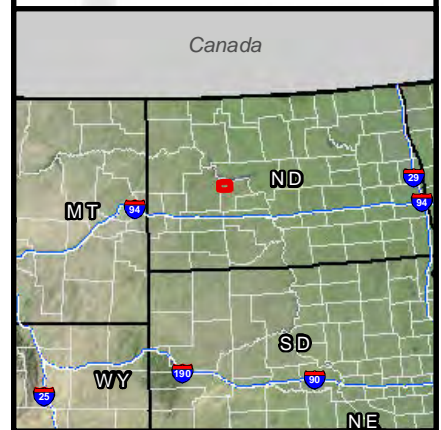
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Figure 8B
WEST Land Cover Map
Vestas V-100

Mercer County, ND
Amended, October 2014

- Project Area
 - Proposed Substation
 - Turbine Location*
 - Alternate Turbine Location*
 - Approximate Underground Collection System Routing
 - Approximate Access Road Routing
 - State Highway
 - County Major Collector Road
 - Other County Road
- Land Cover**
- Agriculture
 - Developed
 - Farmsteads/Rural Homes
 - Grassland
 - Shrubs/Trees
 - Wetlands
















*The Project would utilize up to 86 Vestas V-100 turbines; however, 105 potential turbine locations are included on this figure to account for alternate locations that may be used.



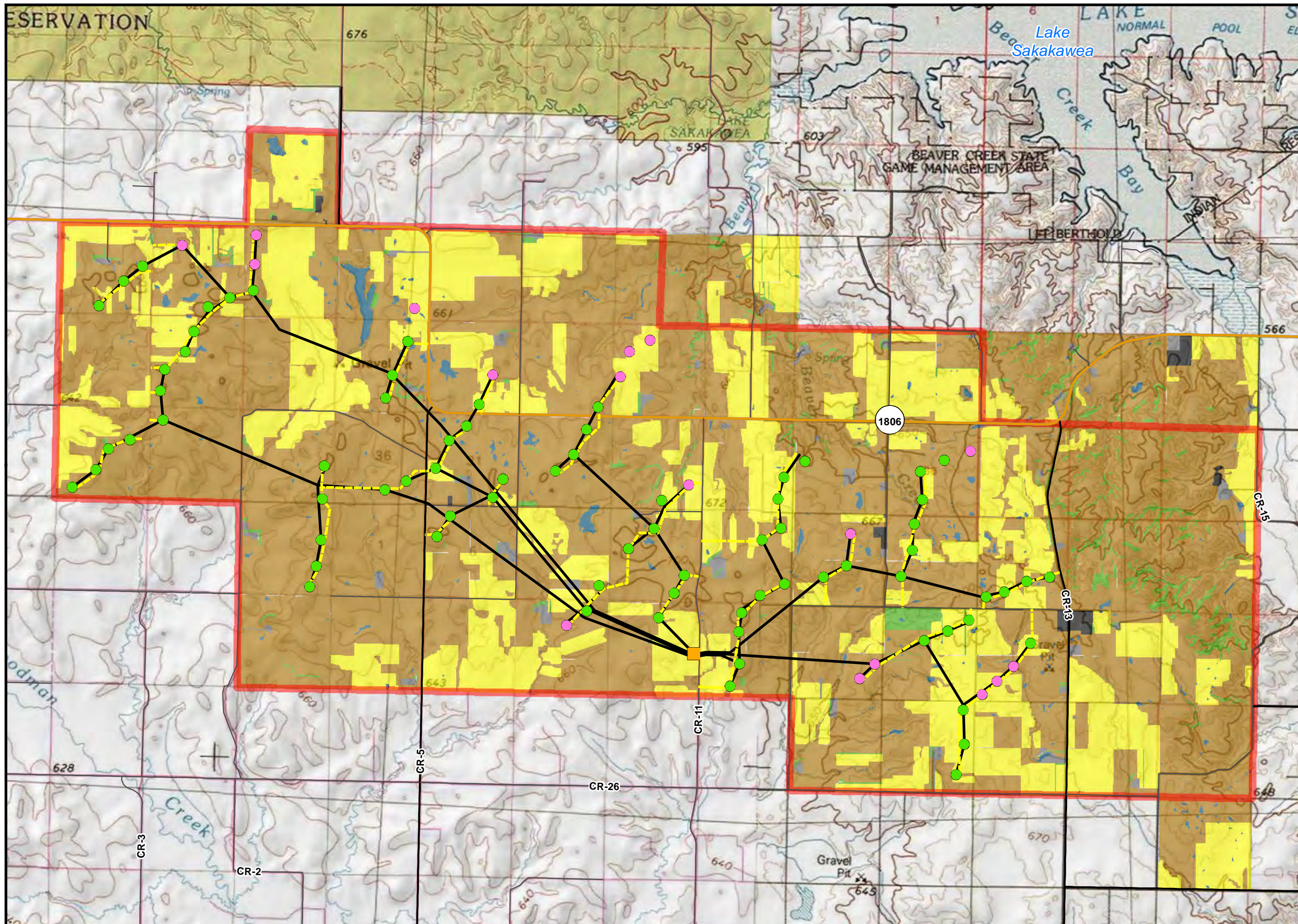
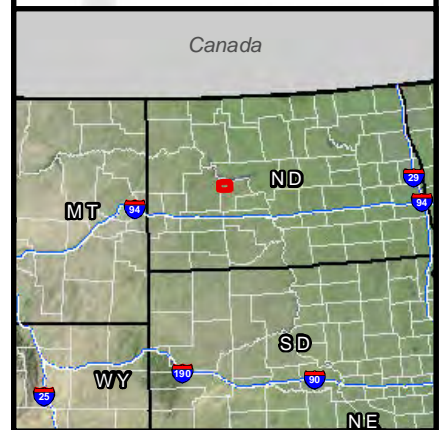
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Figure 8C
WEST Land Cover Map
Vestas V-110

Mercer County, ND
Amended, October 2014

-  Project Area
 -  Proposed Substation
 -  Turbine Location*
 -  Alternate Turbine Location*
 -  Approximate Underground Collection System Routing
 -  Approximate Access Road Routing
 -  State Highway
 -  County Major Collector Road
 -  Other County Road
- Land Cover**
-  Agriculture
 -  Developed
 -  Farmsteads/Rural Homes
 -  Grassland
 -  Shrubs/Trees
 -  Wetlands

*The Project would utilize up to 86 Vestas V-110 turbines; however, 92 potential turbine locations are included on this figure to account for alternate locations that may be used.



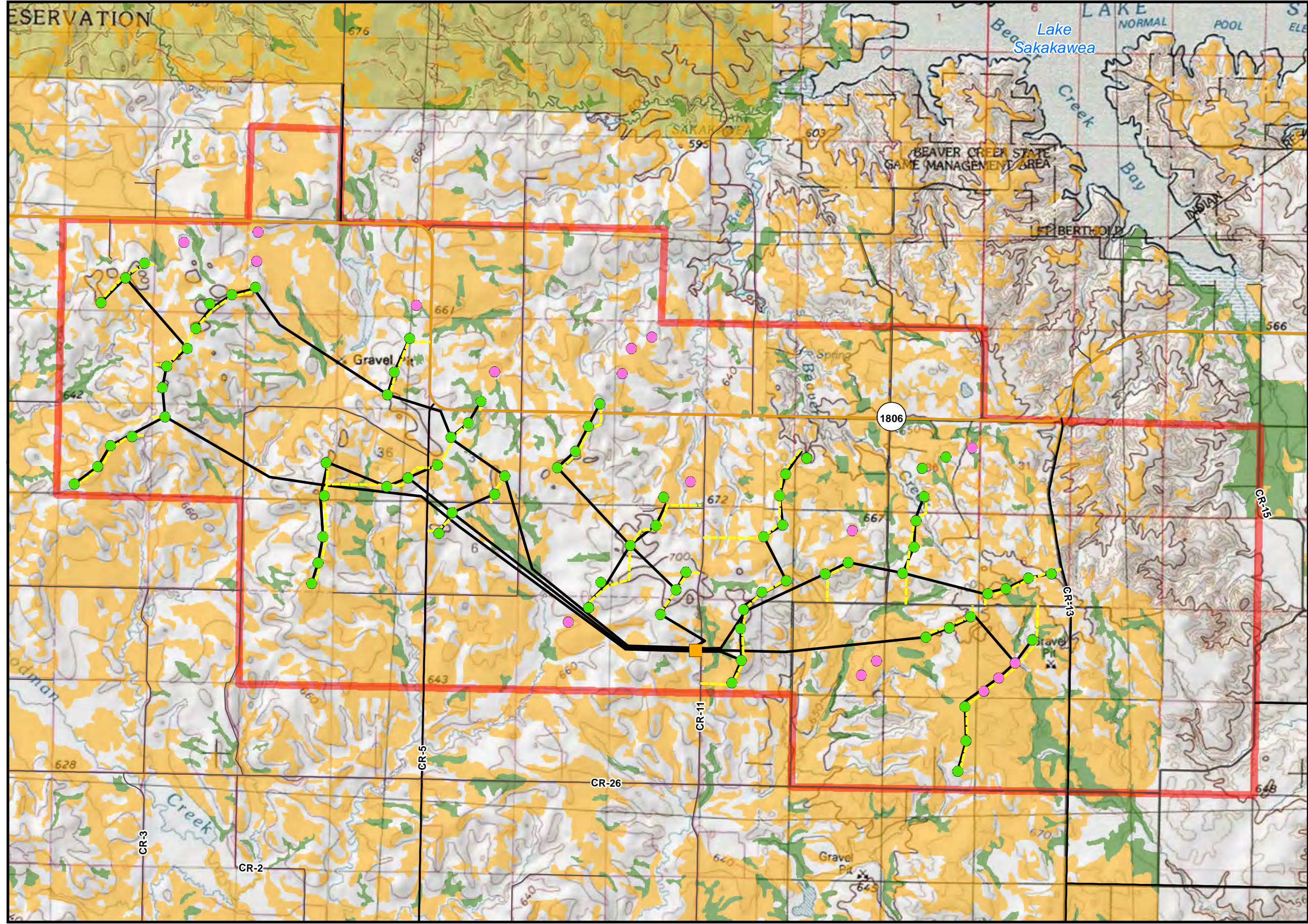
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0 2 4 Miles

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Figure 9A
Farmland Soils
Siemens 2.3-108

Mercer County, ND
Amended, October 2014



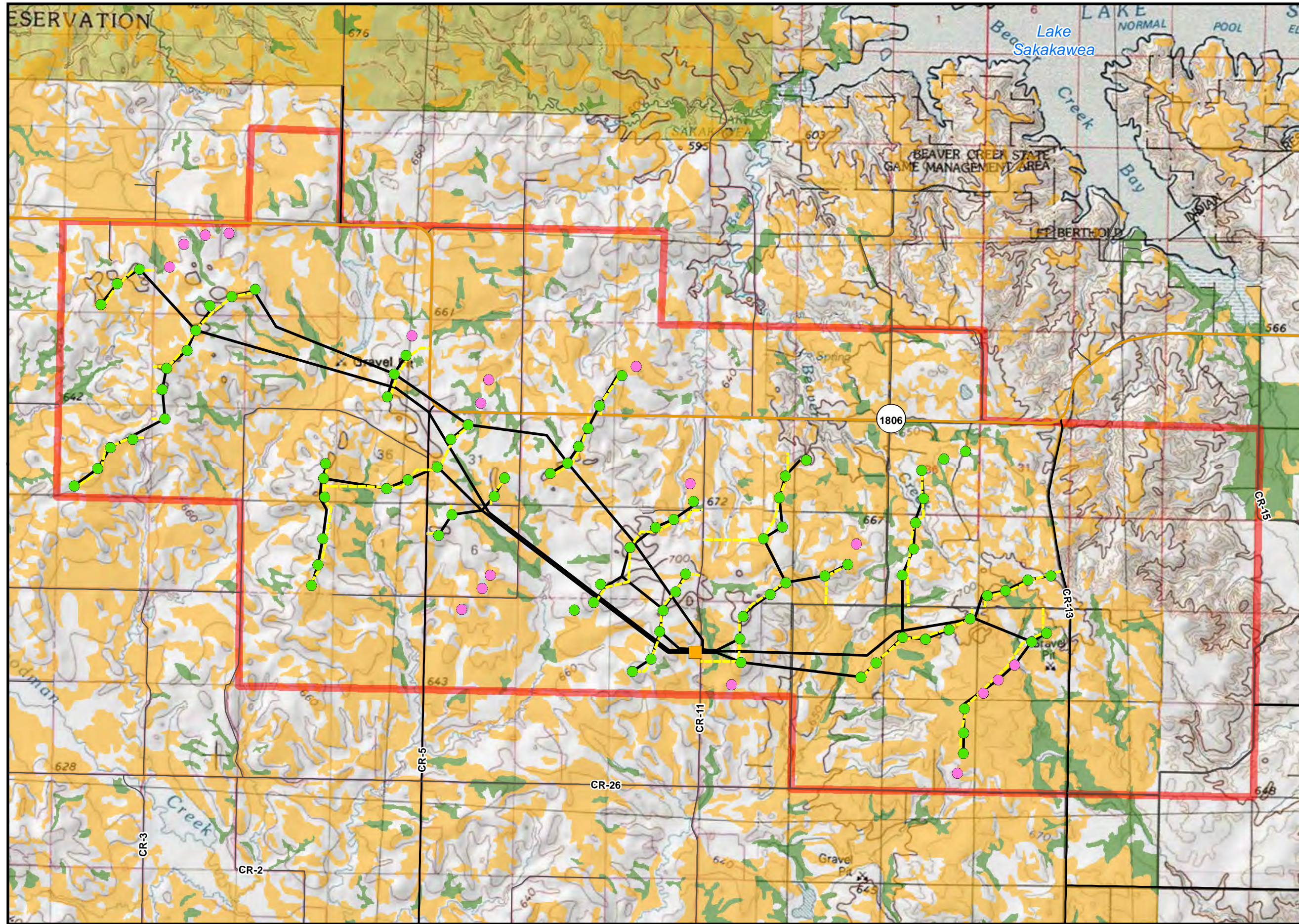
- Project Area
- Proposed Substation
- Turbine Location*
- Alternate Turbine Location*
- Approximate Underground Collection System Routing
- Approximate Access Road Routing
- State Highway
- County Major Collector Road
- Other County Road
- Prime Farmland
- Farmland of Statewide Importance

*The Project would utilize up to 75 Siemens 2.3-108 turbines; however, 92 potential turbine locations are included on this figure to account for alternate locations that may be used.



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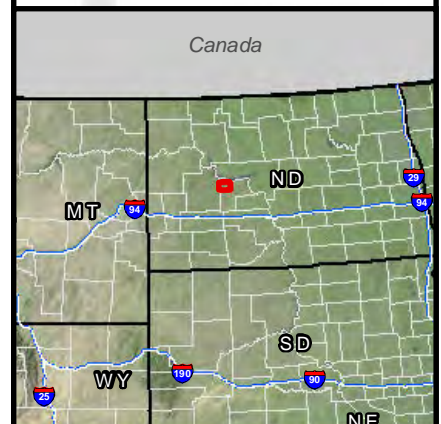
Antelope Hills Wind Project
Application for North Dakota
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Figure 9B
Farmland Soils
Vestas V-100

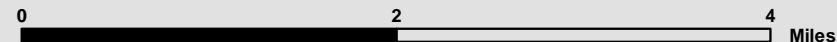
Mercer County, ND
Amended, October 2014

- Project Area
- Proposed Substation
- Turbine Location*
- Alternate Turbine Location*
- Approximate Underground Collection System Routing
- Approximate Access Road Routing
- State Highway
- County Major Collector Road
- Other County Road
- Prime Farmland
- Farmland of Statewide Importance

*The Project would utilize up to 86 Vestas V-100 turbines; however, 105 potential turbine locations are included on this figure to account for alternate locations that may be used.














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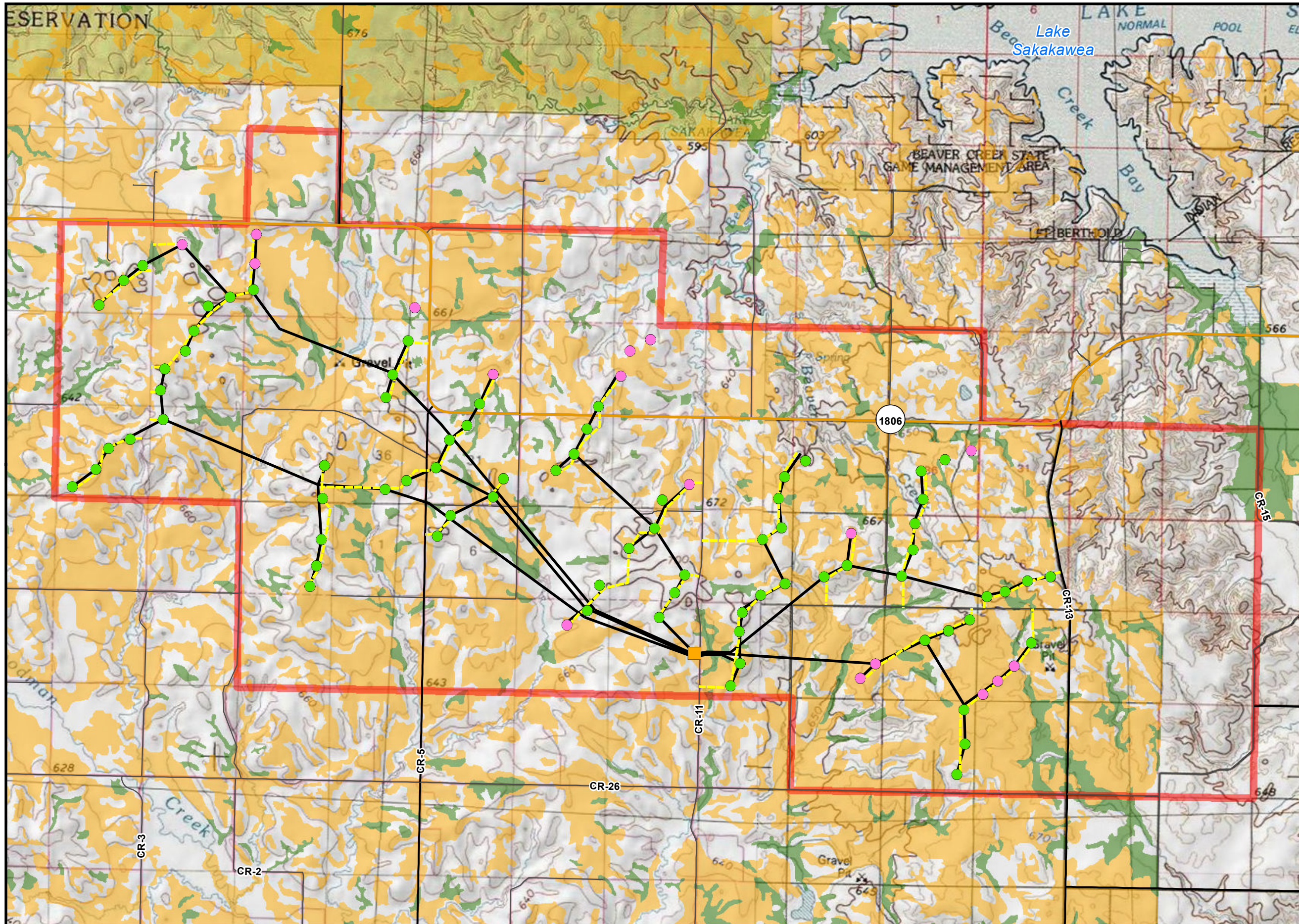
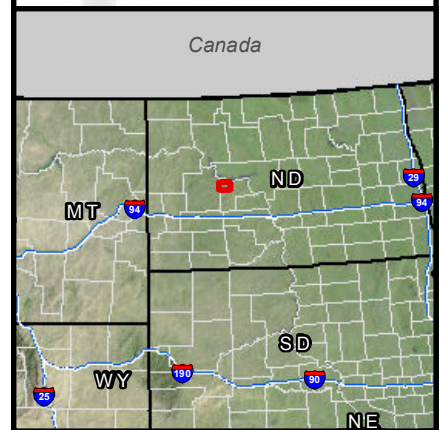
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**Figure 9C
Farmland Soils
Vestas V-110**

Mercer County, ND
Amended, October 2014

-  Project Area
-  Proposed Substation
-  Turbine Location*
-  Alternate Turbine Location*
-  Approximate Underground Collection System Routing
-  Approximate Access Road Routing
-  State Highway
-  County Major Collector Road
-  Other County Road
-  Prime Farmland
-  Farmland of Statewide Importance

*The Project would utilize up to 86 Vestas V-110 turbines; however, 92 potential turbine locations are included on this figure to account for alternate locations that may be used.



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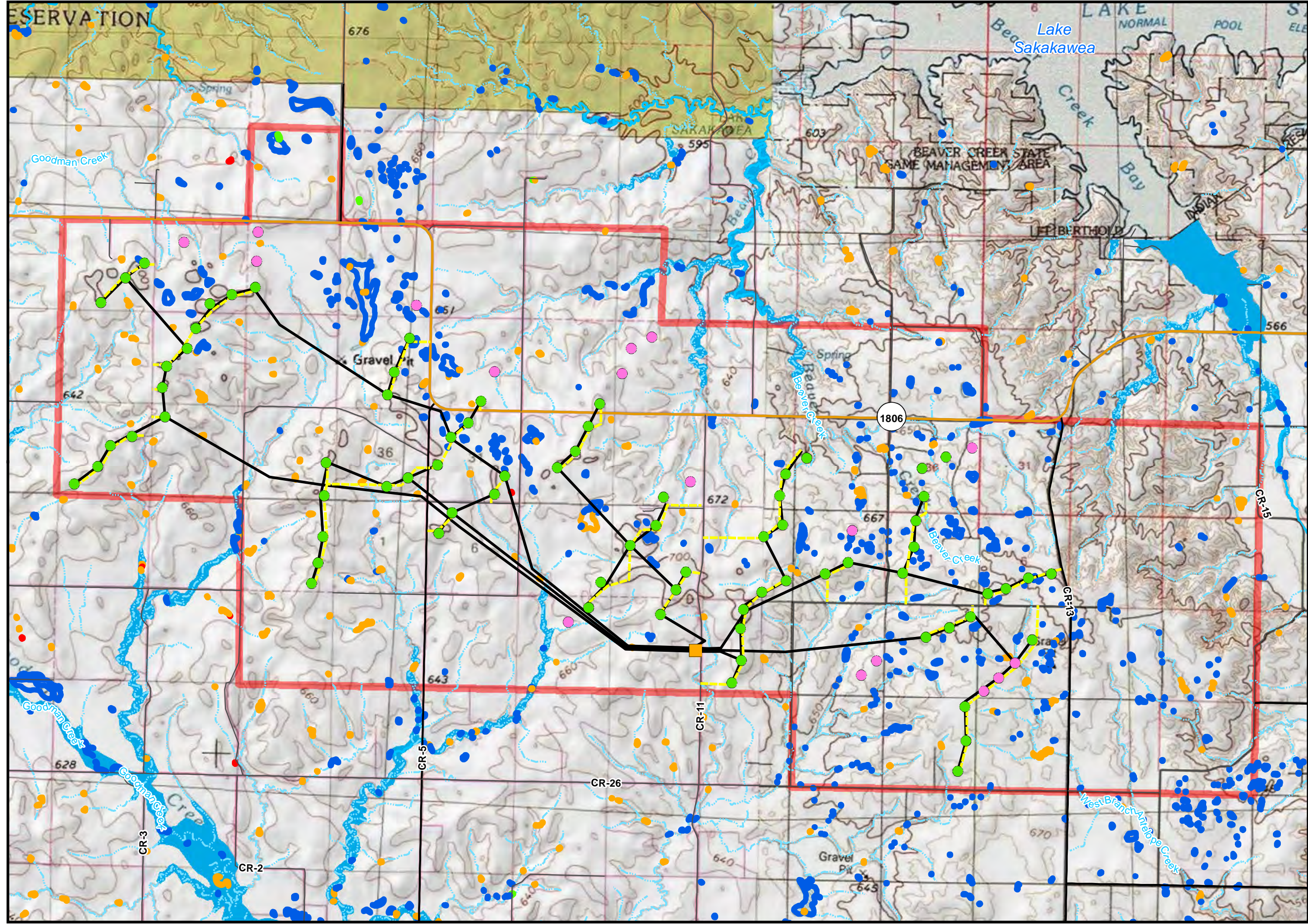
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Figure 10A
Wetlands and
Surface Waters
Siemens 2.3-108

Mercer County, ND
Amended, October 2014



- Project Area
- Proposed Substation
- Turbine Location*
- Alternate Turbine Location*
- Approximate Underground Collection System Routing
- Approximate Access Road Routing
- State Highway
- County Major Collector Road
- Other County Road
- 100-year Flood Zone
- NHD Stream Type**
- Perennial Stream
- Intermittent Stream
- NWI Wetland Type**
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Other Freshwater Wetland

*The Project would utilize up to 75 Siemens 2.3-108 turbines; however, 92 potential turbine locations are included on this figure to account for alternate locations that may be used.



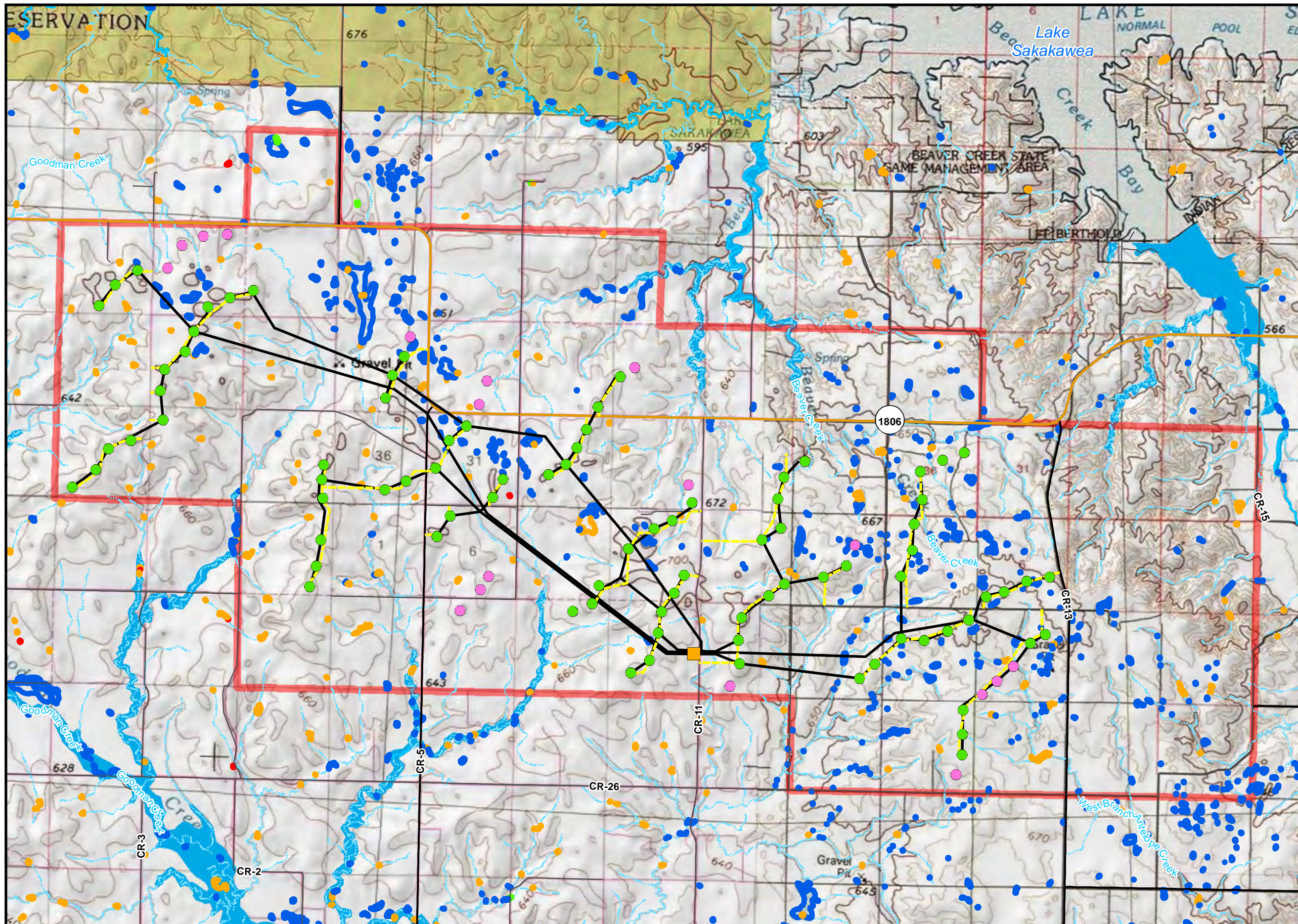
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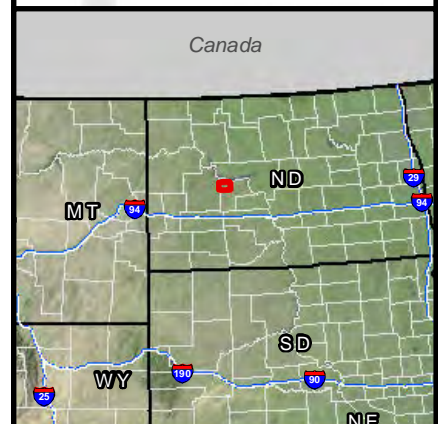
Figure 10B
Wetlands and
Surface Waters
Vestas V-100

Mercer County, ND
Amended, October 2014



- Project Area
- Proposed Substation
- Turbine Location*
- Alternate Turbine Location*
- Approximate Underground Collection System Routing
- Approximate Access Road Routing
- State Highway
- County Major Collector Road
- Other County Road
- 100-year Flood Zone
- NHD Stream Type**
- Perennial Stream
- Intermittent Stream
- NWI Wetland Type**
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Other Freshwater Wetland

*The Project would utilize up to 86 Vestas V-100 turbines; however, 105 potential turbine locations are included on this figure to account for alternate locations that may be used.



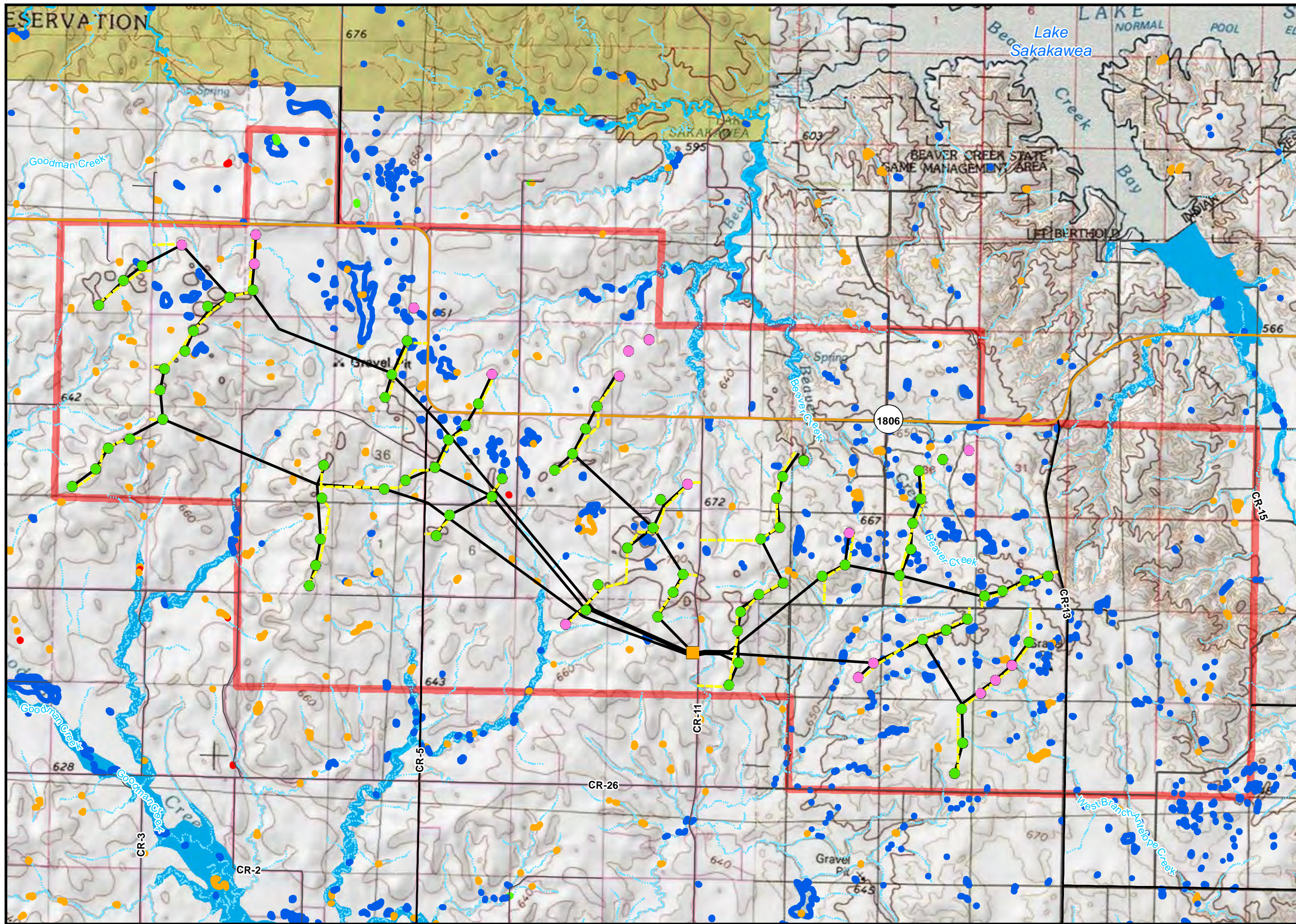
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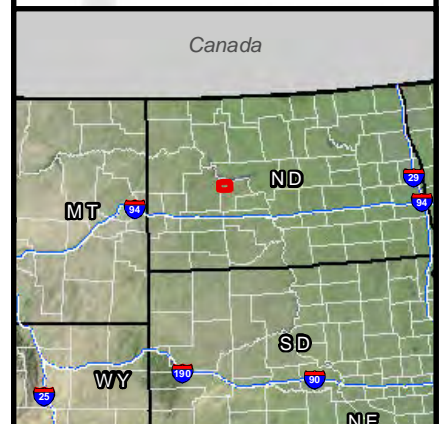
Figure 10C
Wetlands and
Surface Waters
Vestas V-110

Mercer County, ND
Amended, October 2014



- Project Area
- Proposed Substation
- Turbine Location*
- Alternate Turbine Location*
- Approximate Underground Collection System Routing
- Approximate Access Road Routing
- State Highway
- County Major Collector Road
- Other County Road
- 100-year Flood Zone
- NHD Stream Type**
- Perennial Stream
- Intermittent Stream
- NWI Wetland Type**
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Other Freshwater Wetland

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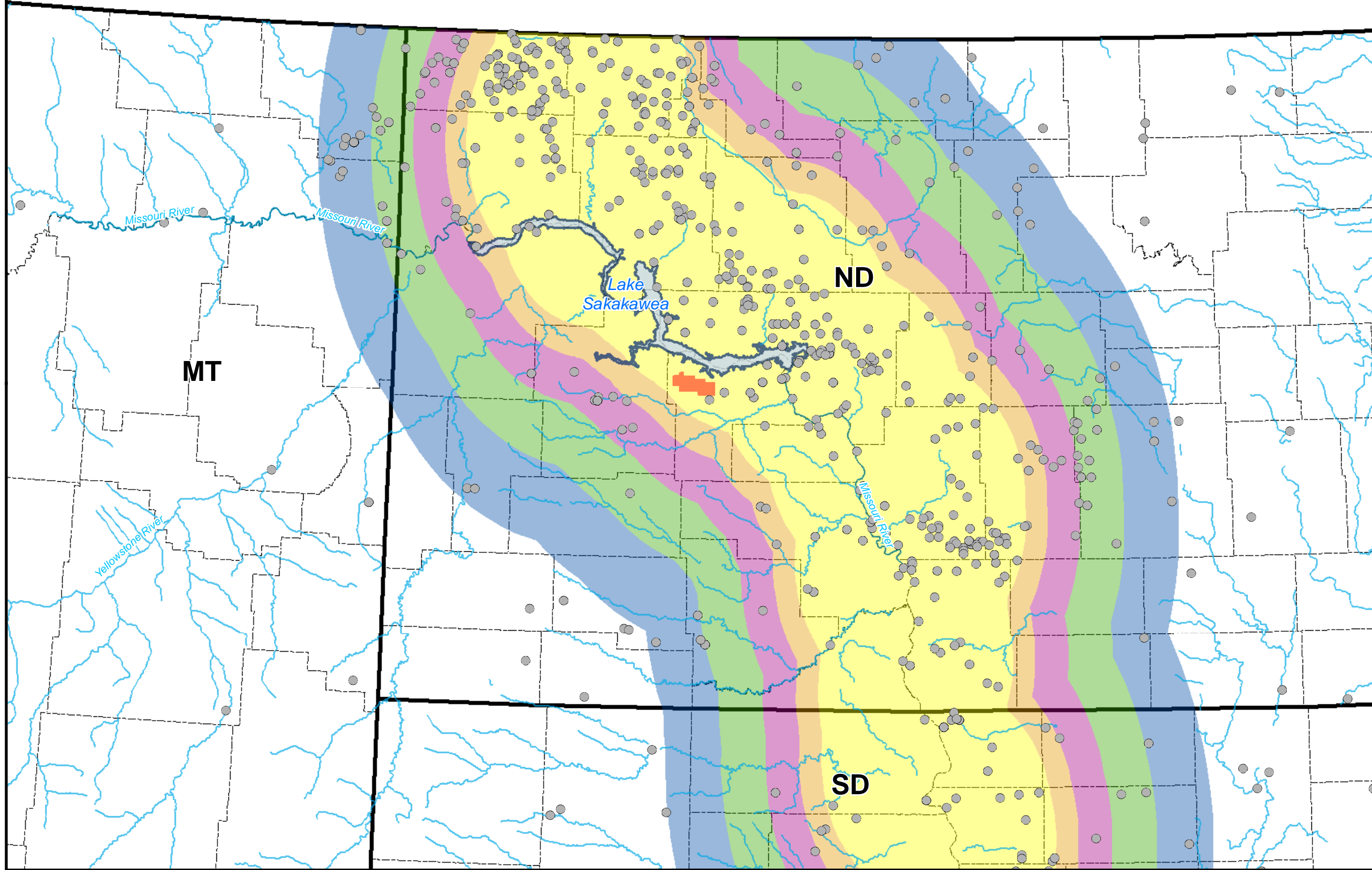


CANADA

Antelope Hills Wind Project Application for North Dakota Certificate of Site Compatibility

Figure 11
Project Area with
Whooping Crane
Migration Map

Mercer County, ND
Amended, October 2014

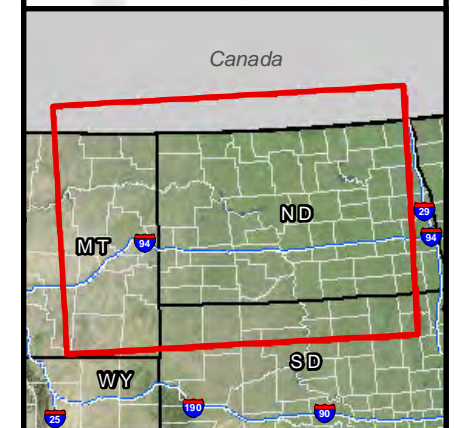


- Project Area
- Confirmed Whooping Crane Sighting*
- Stream or River
- Lake
- State Boundary
- County Boundary

Percent of Sightings

- 75%
- 80%
- 85%
- 90%
- 95%

*Based on Fall 2010 data.



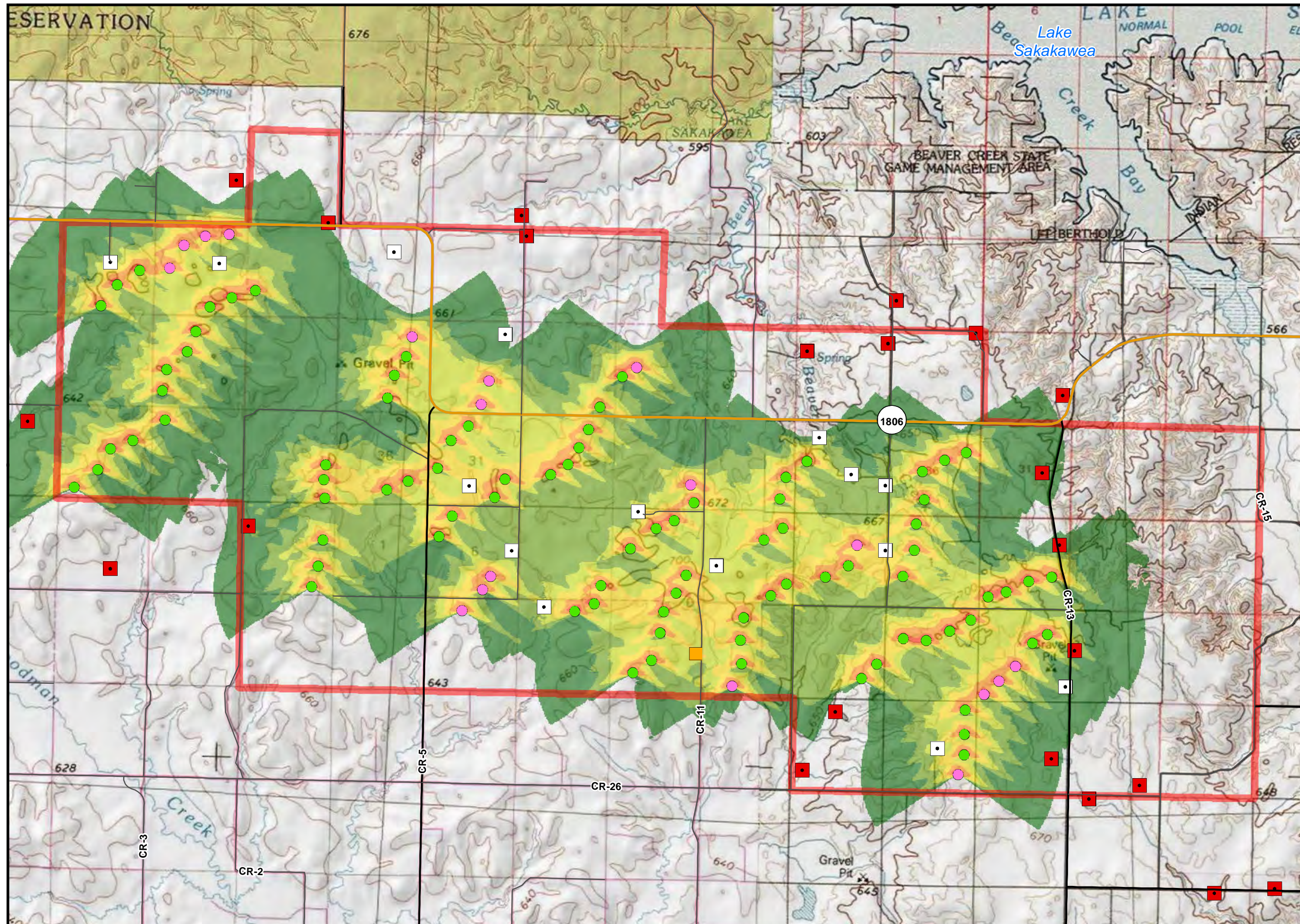
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Figure 12A
Shadow Flicker Hours
Vestas V-100

Mercer County, ND
Amended, October 2014

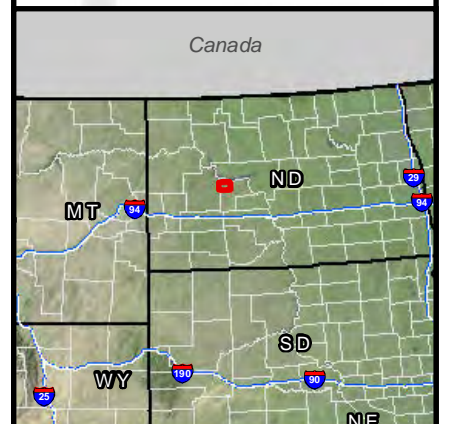


Shadow Flicker (hours per year)

- 1-15
- 15-30
- 30-50
- 50-100
- 100-200
- > 200

- Project Area
 - Proposed Substation
 - Turbine Location*
 - Alternate Turbine Location*
 - State Highway
 - County Major Collector Road
 - Other County Road
- Receptor
- Non-Participating
 - Participating

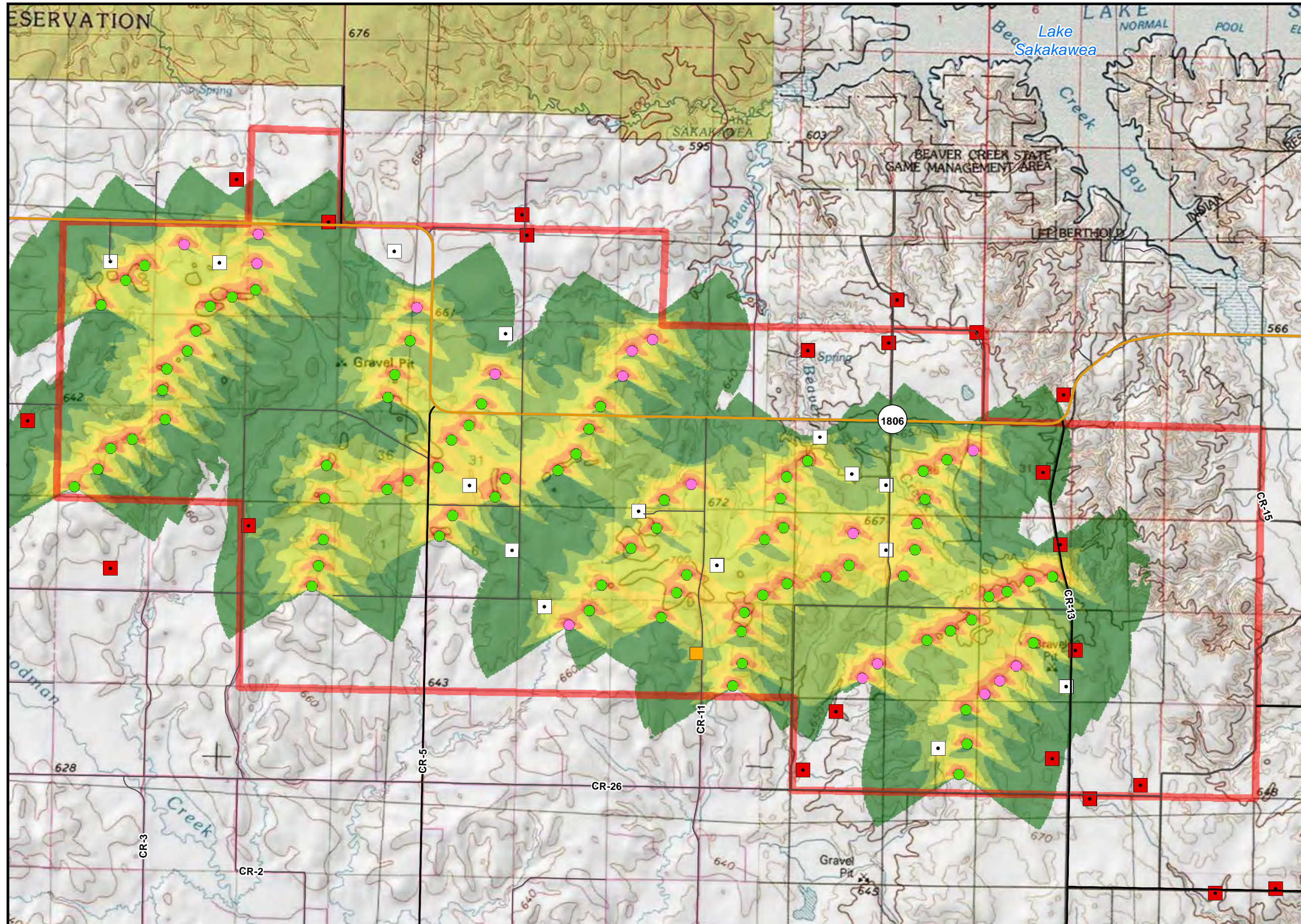
*The Project would utilize up to 86 Vestas V-100 turbines; however, 105 potential Vestas turbine locations are included on this figure to account for alternate locations that may be used.



1:65,000 NAD_1983_StatePlane_North_Dakota_South_FIPS_3302_Feet

0 2 4 Miles

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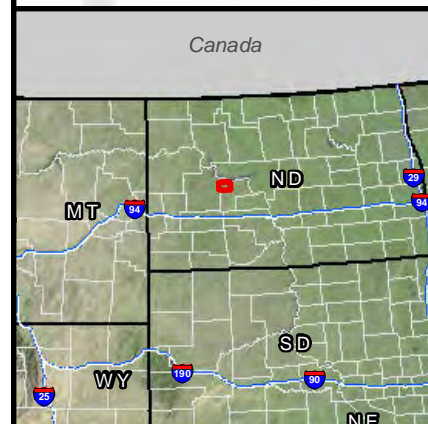
Antelope Hills Wind Project
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Figure 12B
Shadow Flicker Hours
Vestas V-110

Mercer County, ND
Amended, October 2014

- Project Area
 - Proposed Substation
 - Turbine Location*
 - Alternate Turbine Location*
 - State Highway
 - County Major Collector Road
 - Other County Road
- Receptor**
- Non-Participating
 - Participating
- Shadow Flicker (hours per year)**
- 1-15
 - 15-30
 - 30-50
 - 50-100
 - 100-200
 - > 200

*The Project would utilize up to 86 Vestas V-110 turbines; however, 92 potential Vestas turbine locations are included on this figure to account for alternate locations that may be used.



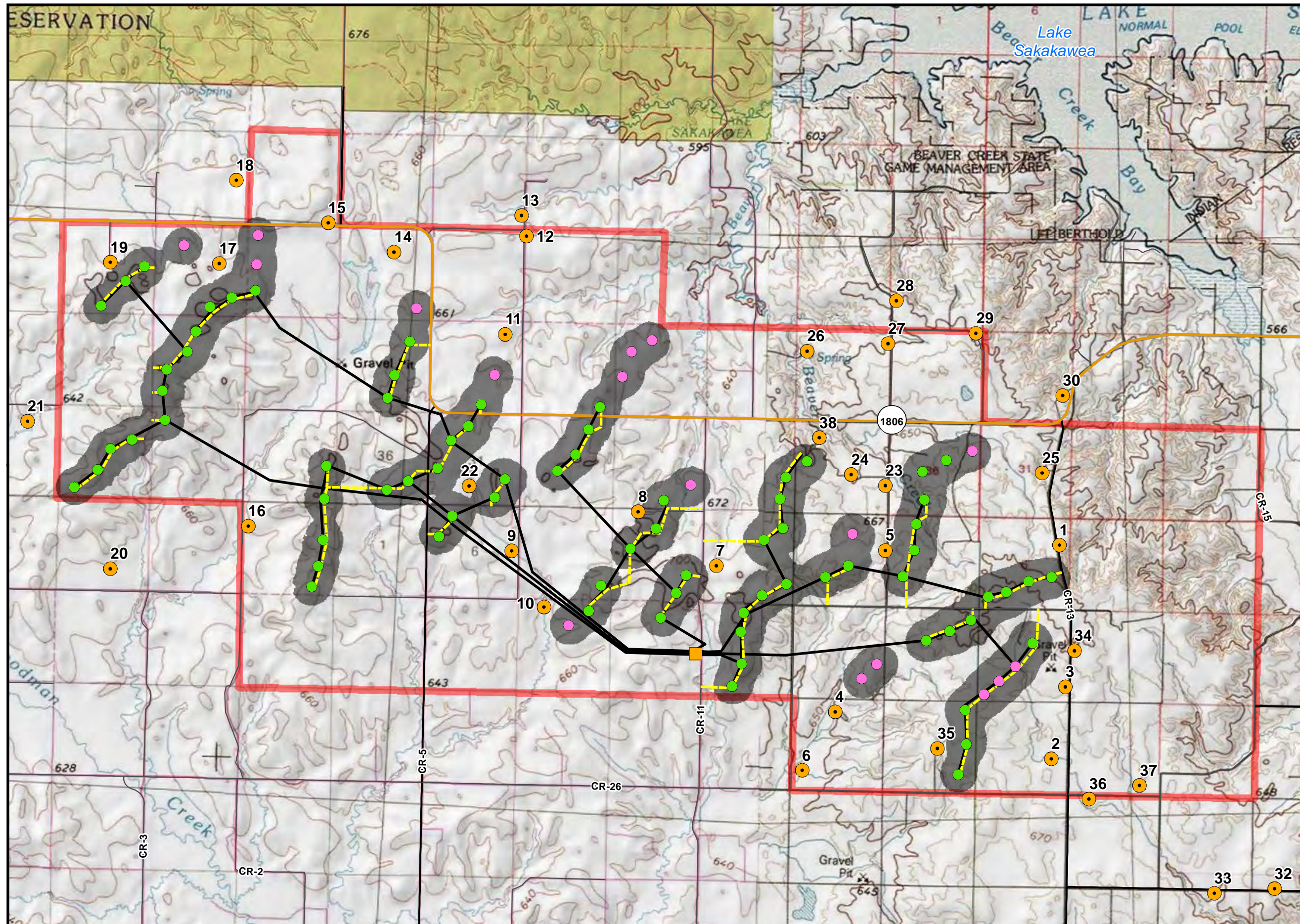
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Figure 13A
Turbine Sound Levels
Greater Than 50dB
Siemens

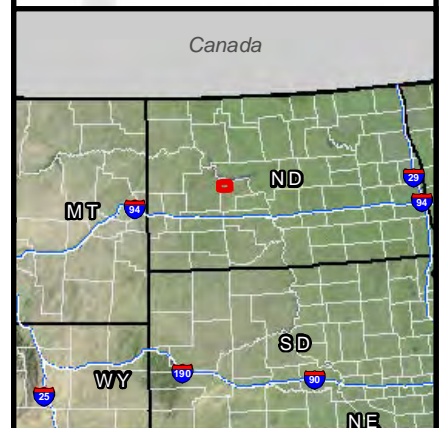
Mercer County, ND
Amended, October 2014



- Project Area
- Proposed Substation
- Turbine Location*
- Alternate Turbine Location*
- Approximate Underground Collection System Routing
- Approximate Access Road Routing
- State Highway
- County Major Collector Road
- Other County Road
- Residence
- 50dBA or Greater Noise Extent**

*The Project would utilize up to 75 Siemens 2.3-108 turbines; however, 92 potential turbine locations are included on this figure to account for alternate locations that may be used.

**Based on typical downwind conditions. For anomalous meteorological conditions, see the Noise Technical Memo.



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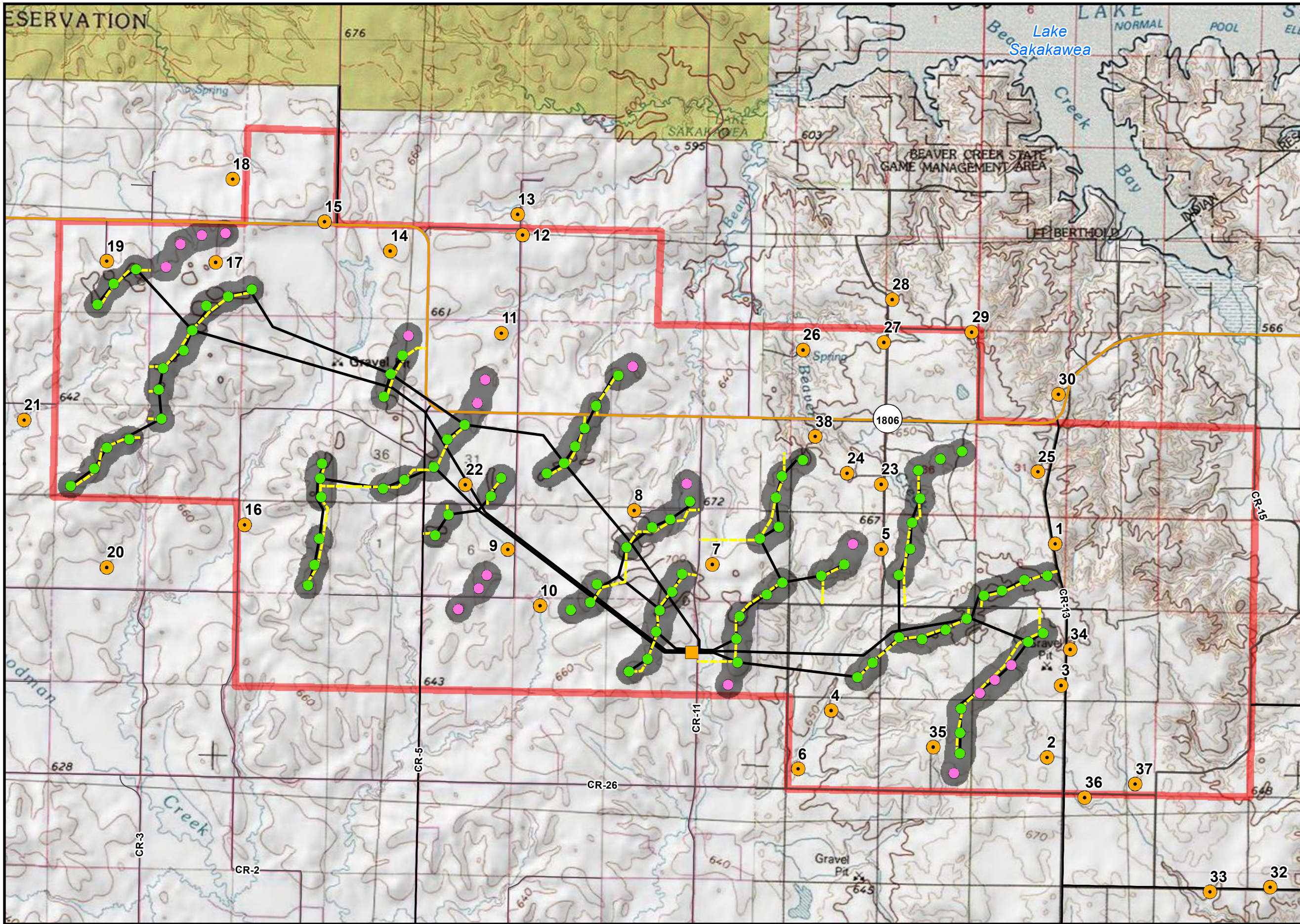
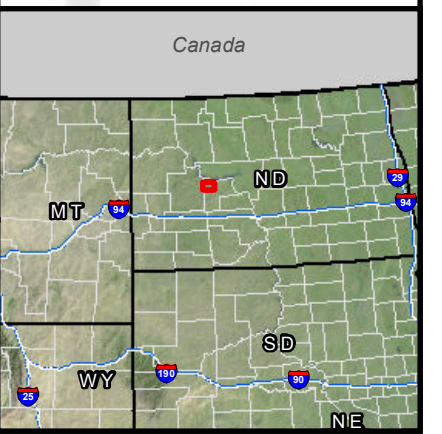
**Figure 13B
Turbine Sound Levels
Greater Than 50dB
Vestas V-100**

Mercer County, ND
Amended, October 2014

- Project Area
- Proposed Substation
- Turbine Location*
- Alternate Turbine Location*
- Approximate Underground Collection System Routing
- Approximate Access Road Routing
- State Highway
- County Major Collector Road
- Other County Road
- Residence
- 50dBA or Greater Noise Extent**

*The Project would utilize up to 86 Vestas V-100 turbines; however, 105 potential turbine locations are included on this figure to account for alternate locations that may be used.

**Based on typical downwind conditions. For anomalous meteorological conditions, see the Noise Technical Memo.



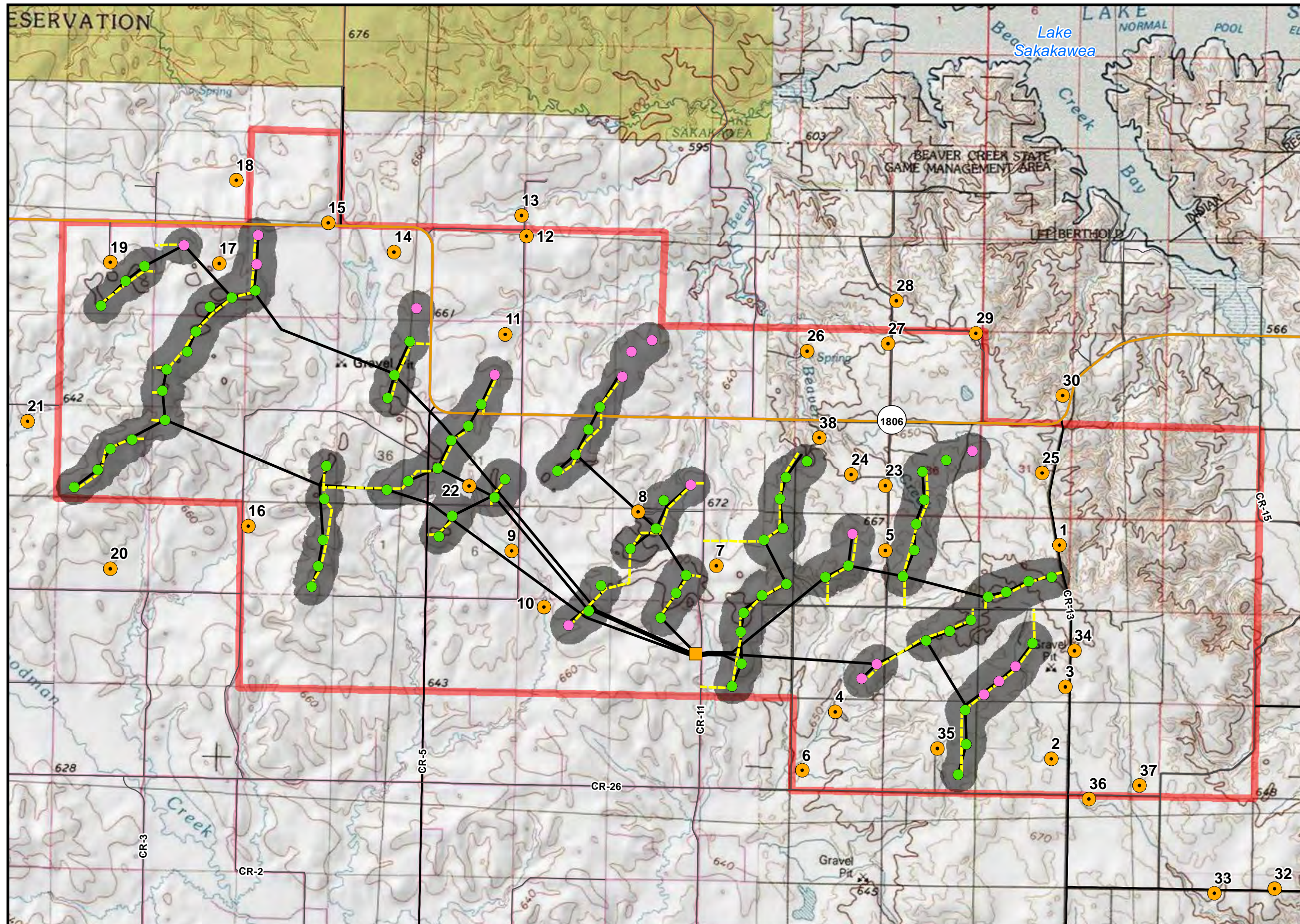
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Antelope Hills Wind Project
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Figure 13C
Turbine Sound Levels
Greater Than 50dB
Vestas V-110

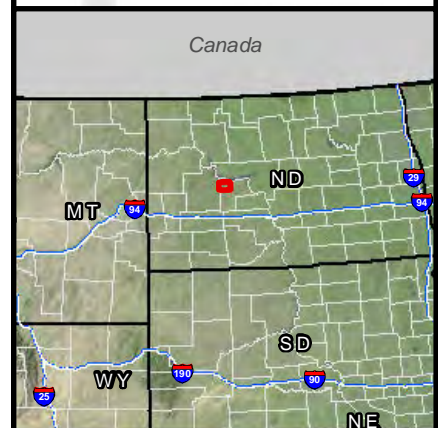
Mercer County, ND
Amended, October 2014



- Project Area
- Proposed Substation
- Turbine Location*
- Alternate Turbine Location*
- Approximate Underground Collection System Routing
- Approximate Access Road Routing
- State Highway
- County Major Collector Road
- Other County Road
- Residence
- 50dBA or Greater Noise Extent**

*The Project would utilize up to 86 Vestas V-110 turbines; however, 92 potential turbine locations are included on this figure to account for alternate locations that may be used.

**Based on typical downwind conditions. For anomalous meteorological conditions, see the Noise Technical Memo.



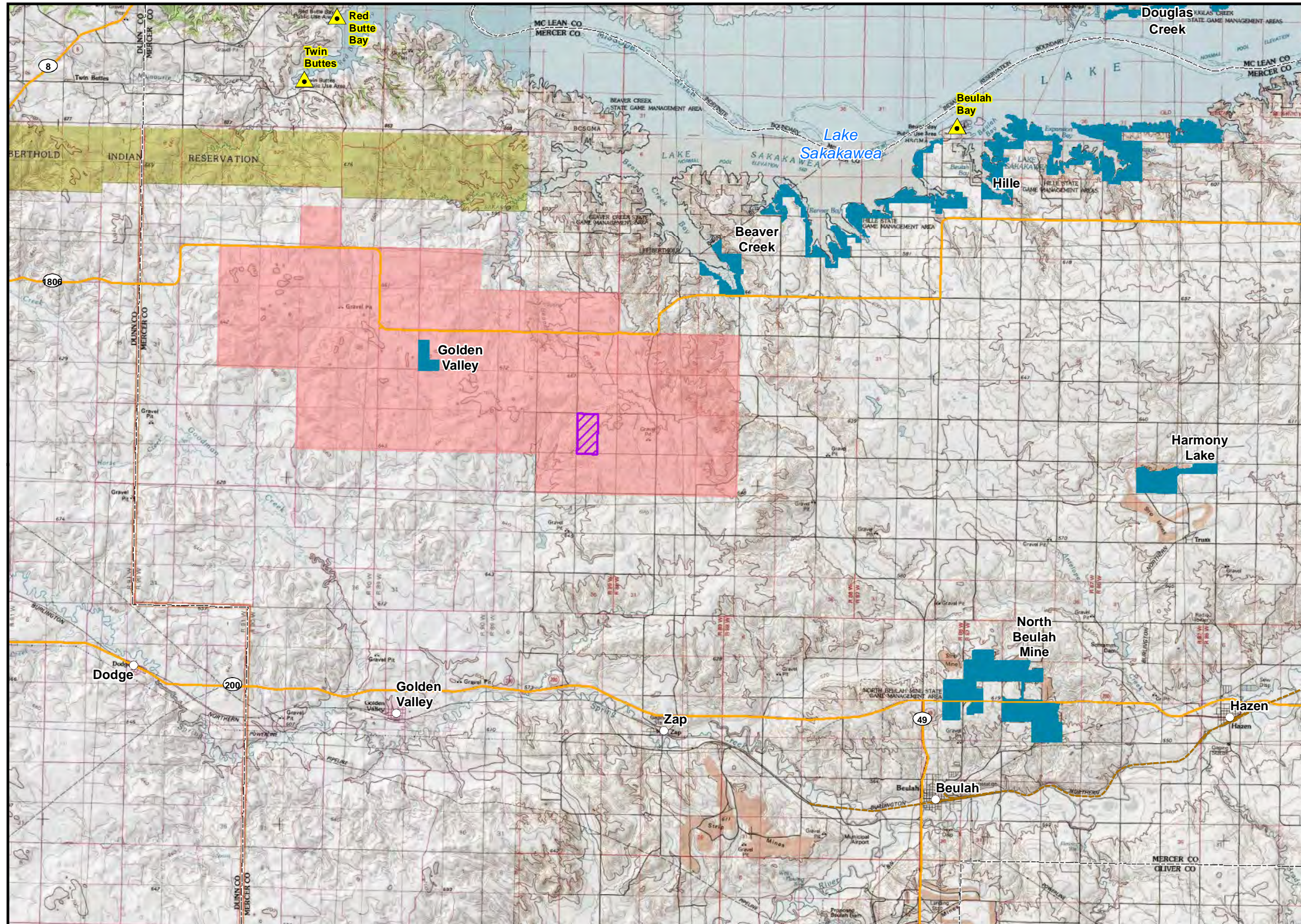
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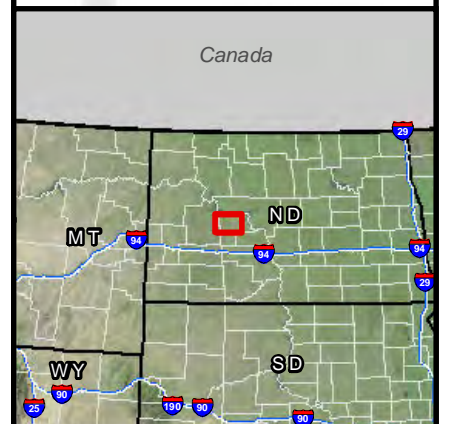
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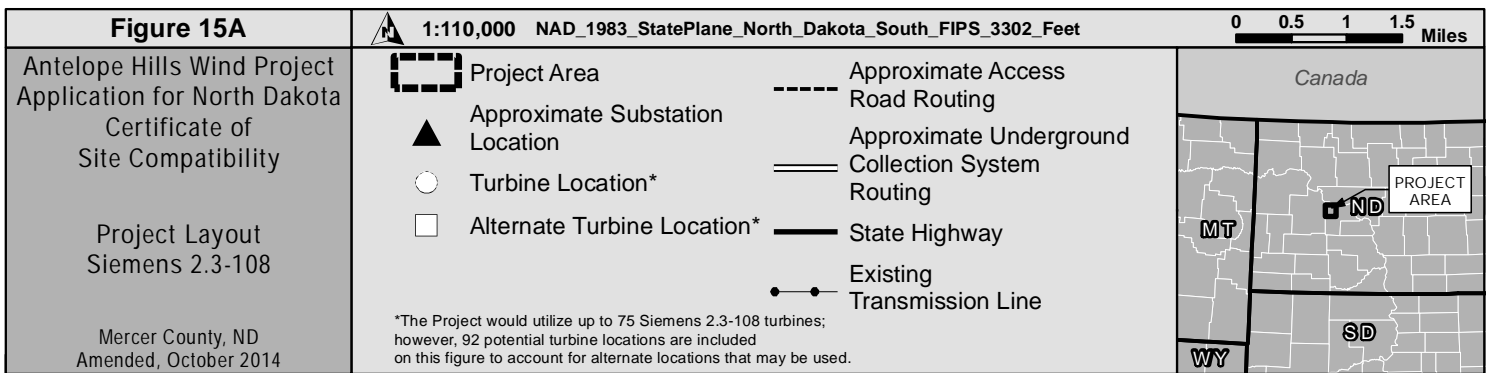
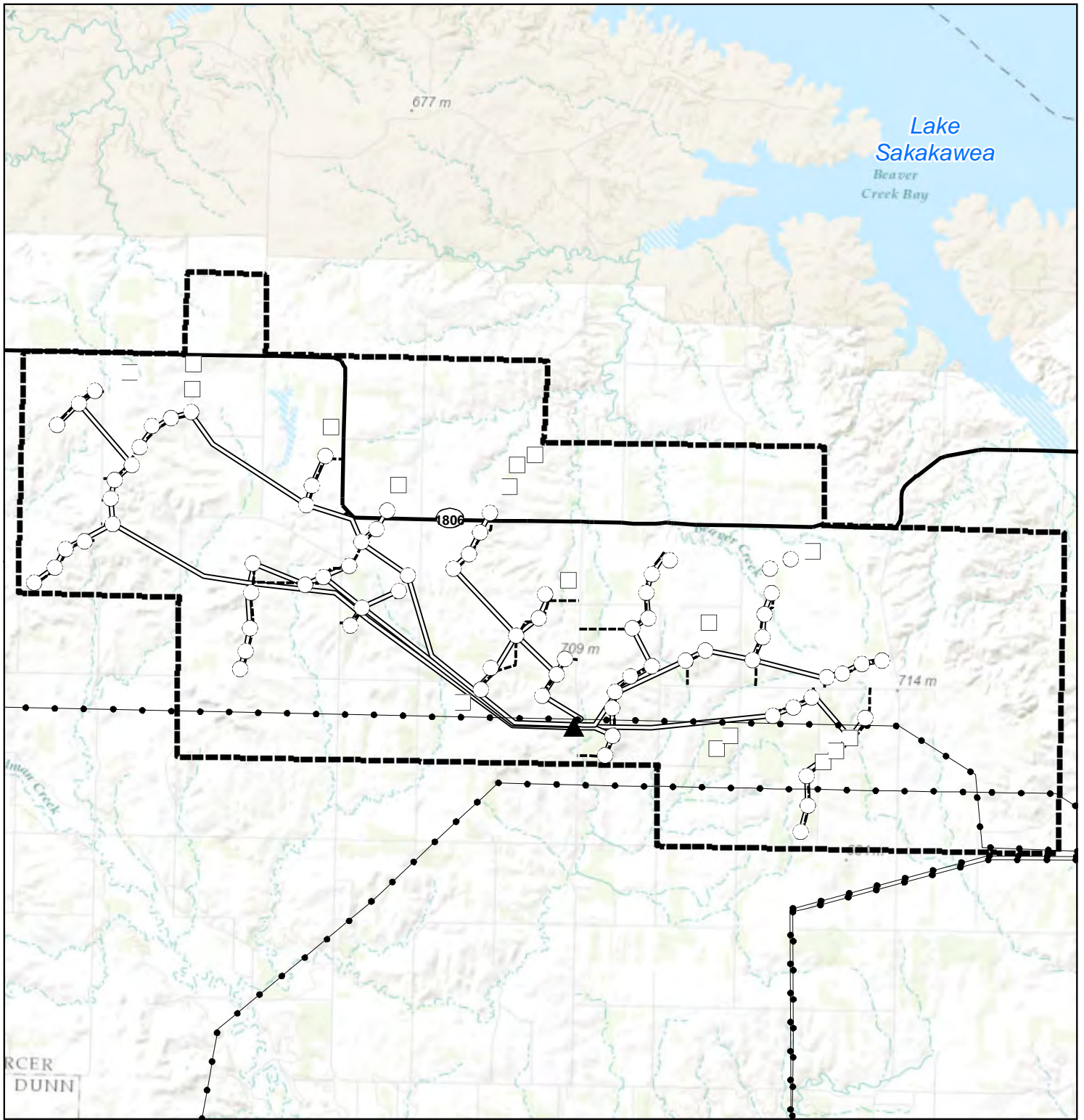
Figure 14
Area Recreation
Resources

Mercer County, ND
Amended, October 2014



- Project Area
- PLOTS Land
- Wildlife Management Area
- Public Use Area
- County Boundary
- Railroad
- City/Town
- State Highway





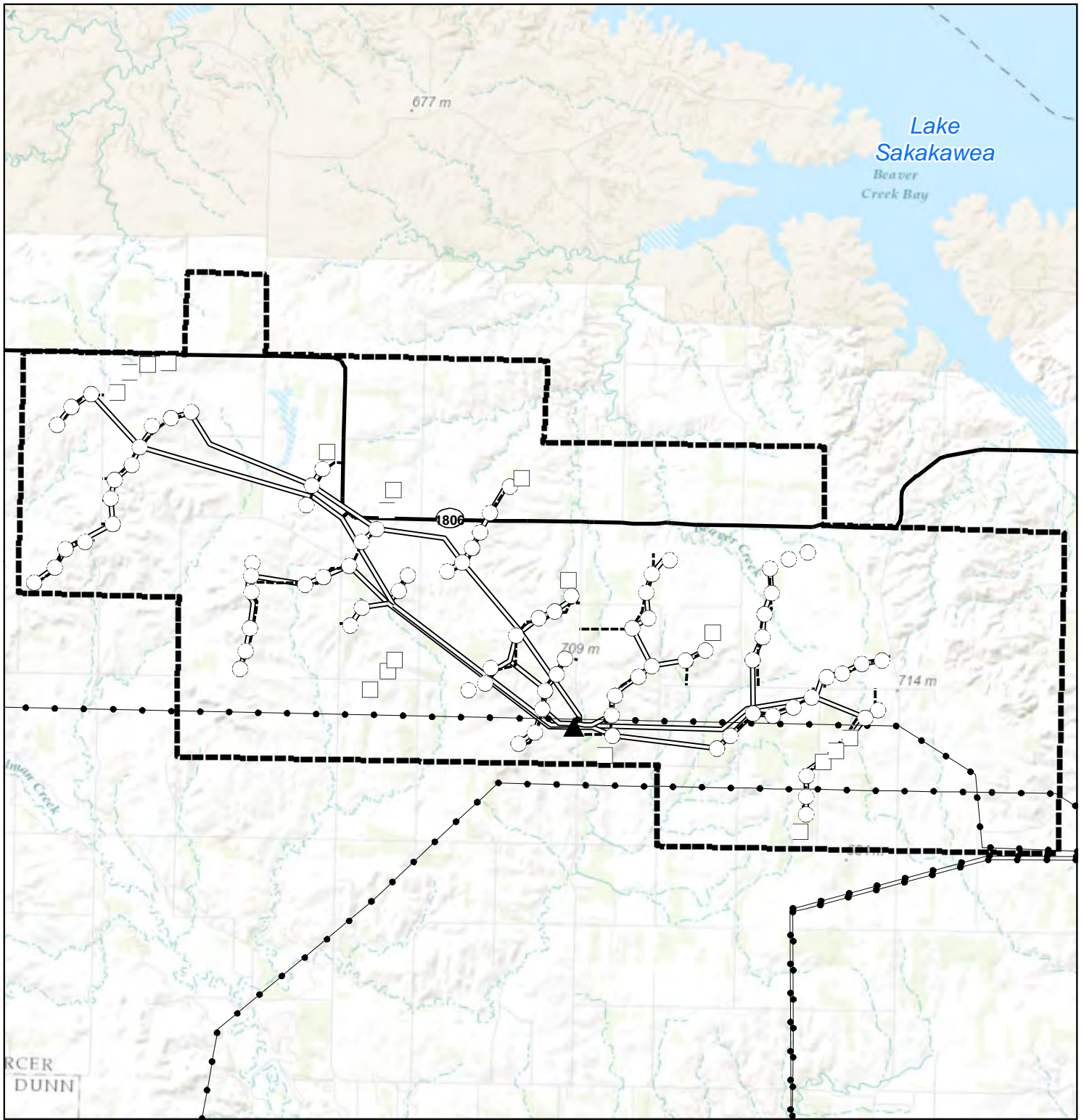


Figure 15B

Antelope Hills Wind Project
Application for North Dakota
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Project Layout
Vestas V-100

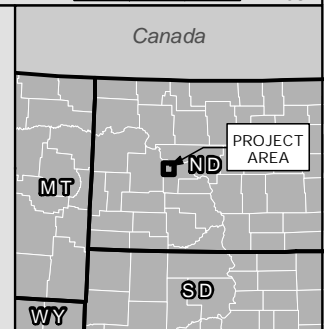
Mercer County, ND
Amended, October 2014

1:110,000 NAD_1983_StatePlane_North_Dakota_South_FIPS_3302_Feet

0 0.5 1 1.5 Miles

- Project Area
- Approximate Substation Location
- Turbine Location*
- Alternate Turbine Location*
- Approximate Access Road Routing
- Approximate Underground Collection System Routing
- State Highway
- Existing Transmission Line

*The Project would utilize up to 86 Vestas V-100 turbines; however, 105 potential turbine locations are included on this figure to account for alternate locations that may be used.



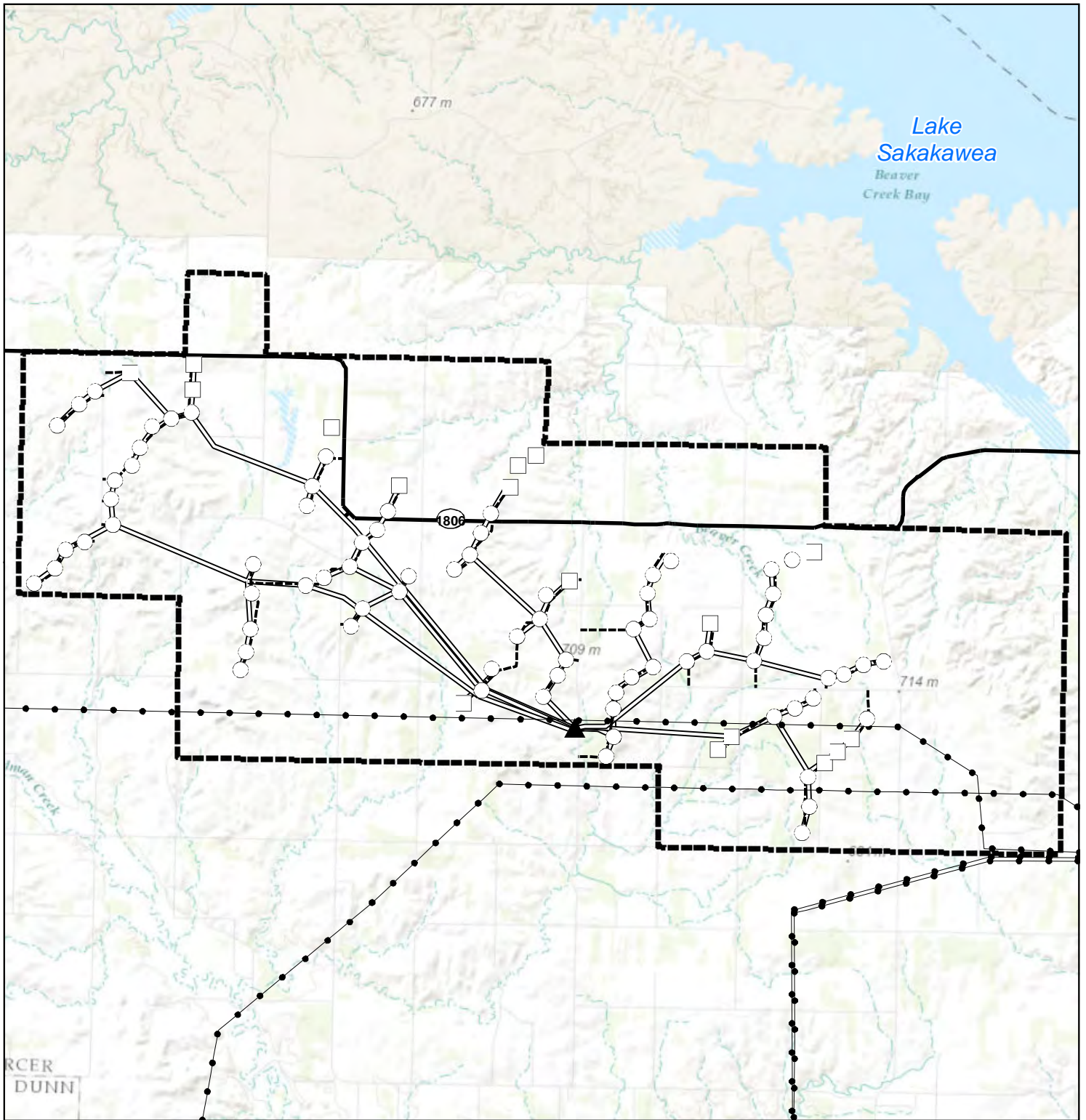


Figure 15C

Antelope Hills Wind Project
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Project Layout
Vestas V-110

Mercer County, ND
Amended, October 2014

1:110,000 NAD_1983_StatePlane_North_Dakota_South_FIPS_3302_Feet

0 0.5 1 1.5 Miles

- Project Area
- Approximate Substation Location
- Turbine Location*
- Alternate Turbine Location*
- Approximate Access Road Routing
- Approximate Underground Collection System Routing
- State Highway
- Existing Transmission Line

*The Project would utilize up to 86 Vestas V-110 turbines; however, 92 potential turbine locations are included on this figure to account for alternate locations that may be used.

