

**Wilton IV Wind Energy Center**  
BURLEIGH COUNTY, ND

**Figure 1. Project Location**

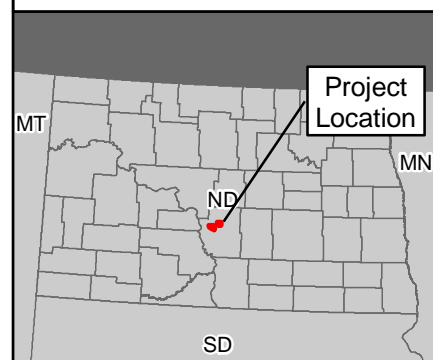
NOVEMBER 2011

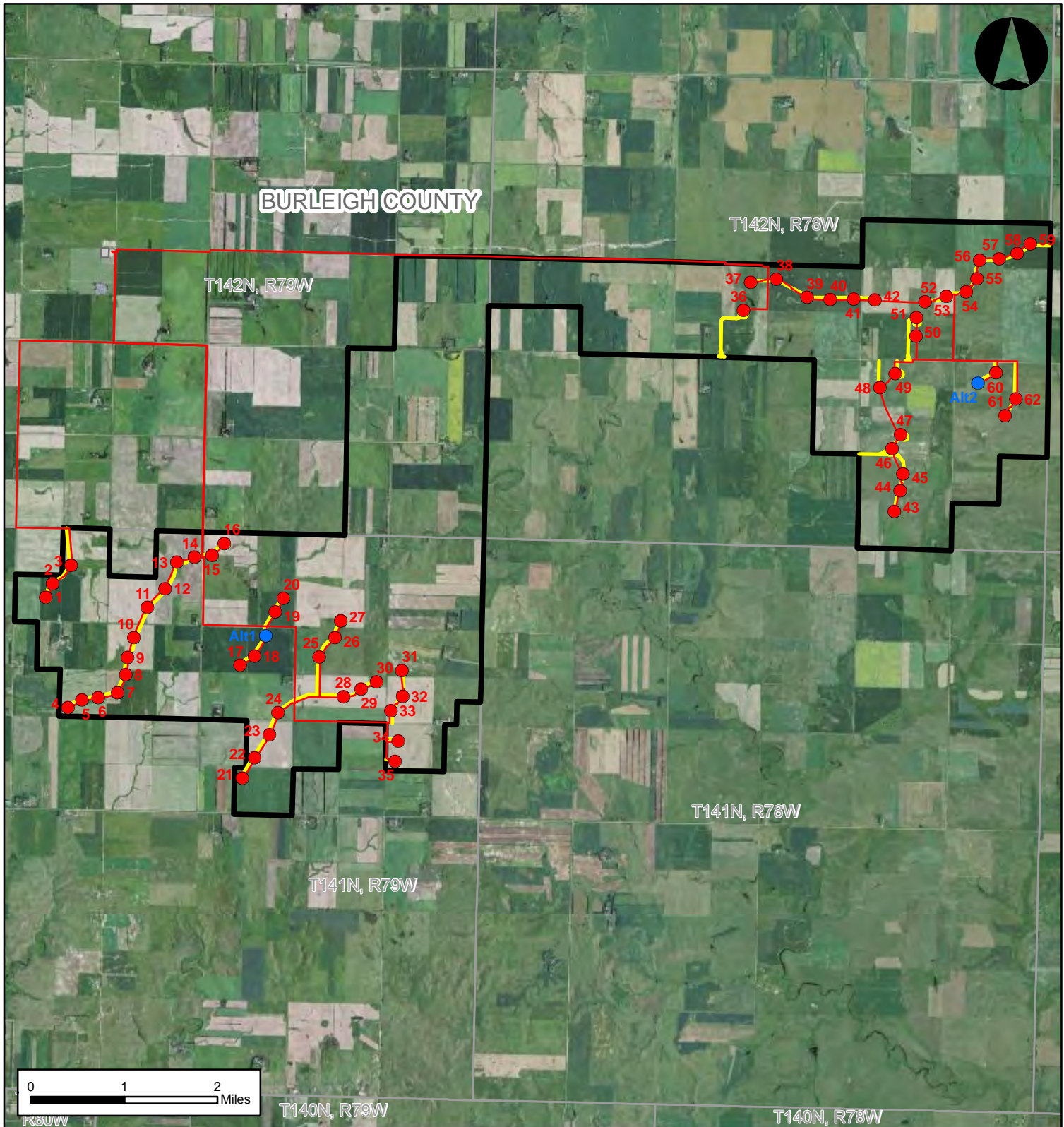


- Project Area (9/28/11)
- Waterbody
- Limited Access Highway
- Highway
- Major Road
- Railroad
- Populated Place
- County Boundary
- Township Boundary

Source: ESRI Topo 2007, ESRI Roads 2006

**OVERVIEW MAP**





**Wilton IV Wind Energy Center**  
 BURLEIGH COUNTY, ND

**Figure 2. Project Area (Aerial)**

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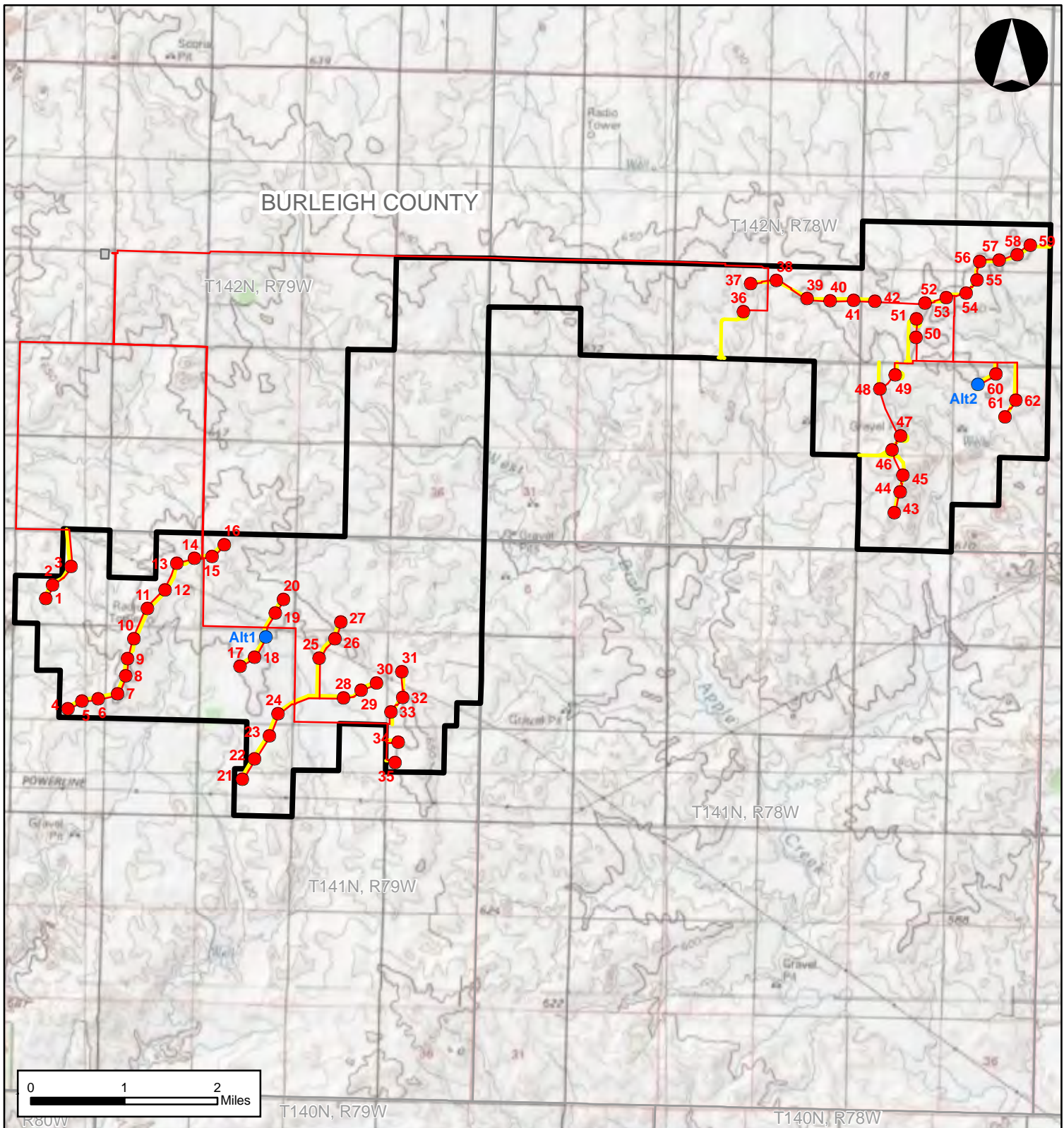
TETRA TECH EC, INC.

- Project Area (9/28/11)
- Proposed Turbine Location (9/21/11)
- Alternate Turbine Location (9/21/11)
- Substation
- Collection System (10/3/11)
- Access Road (10/3/11)
- County Boundary
- Township Boundary

Source: NAIP 2010 Imagery

**OVERVIEW MAP**

Project Location



**Wilton IV Wind Energy Center**  
BURLEIGH COUNTY, ND

**Figure 3. Project Area (Topographical)**

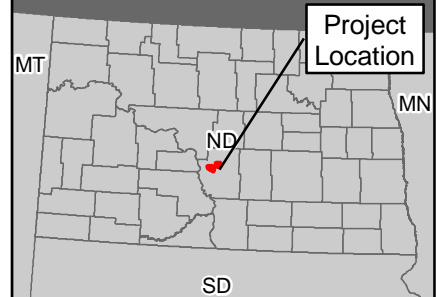
NOVEMBER 2011

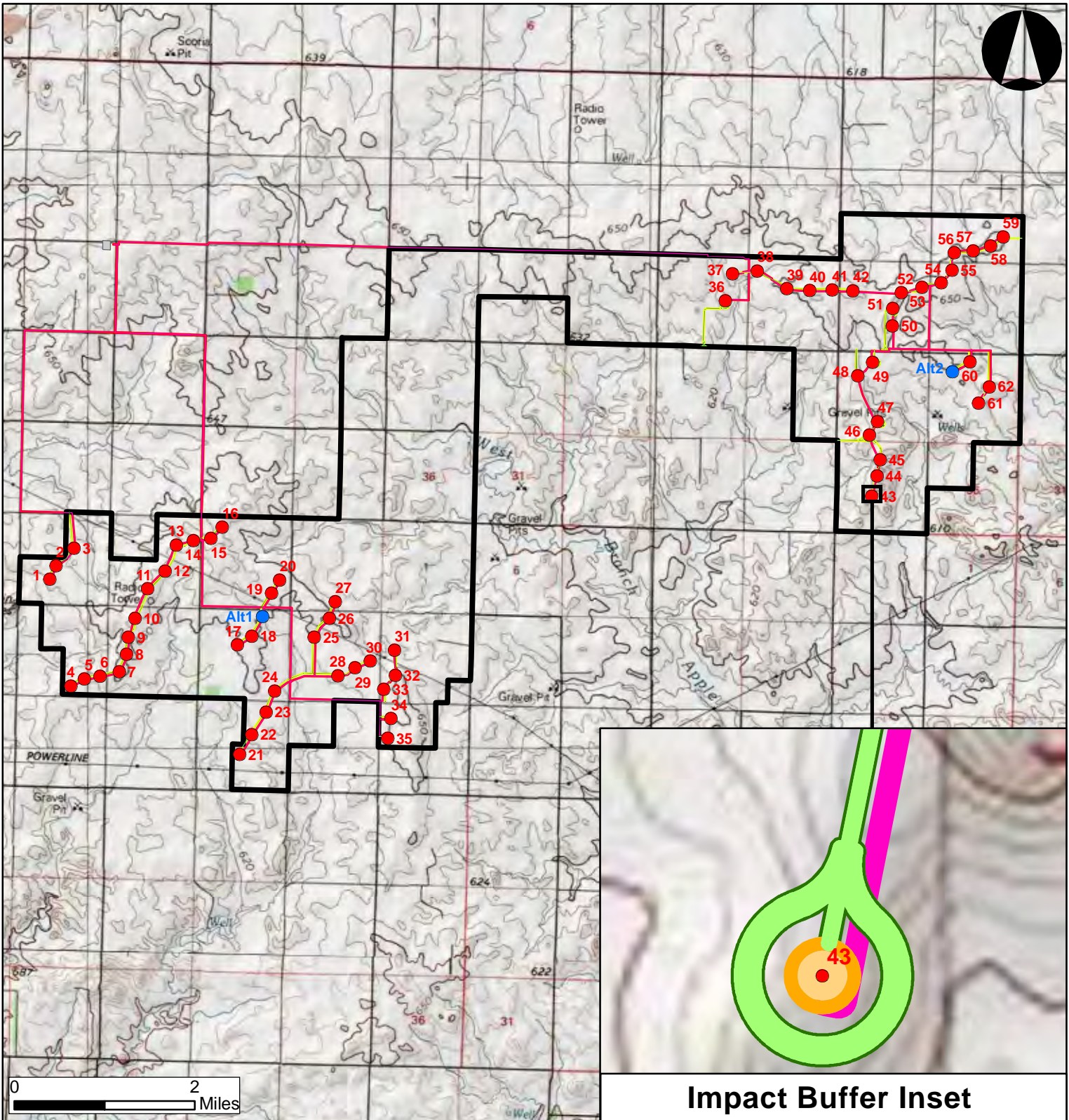


- Project Area (9/28/11)
- Proposed Turbine Location (9/21/11)
- Alternate Turbine Location (9/21/11)
- Substation
- Collection System (10/3/11)
- Access Road (10/3/11)
- County Boundary
- Township Boundary

Source: ESRI Topo 2007

**OVERVIEW MAP**





**Impact Buffer Inset**

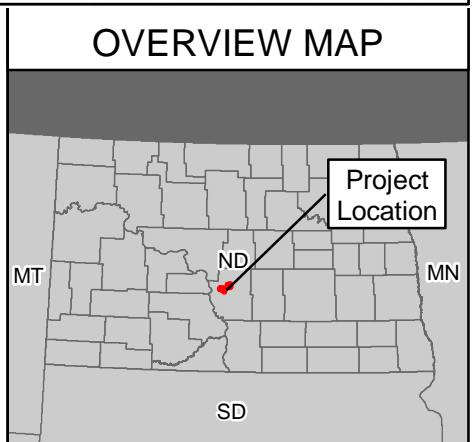
**Wilton IV Wind Energy Center**  
 BURLEIGH COUNTY, ND

**Figure 4. Project Impact Assumptions**

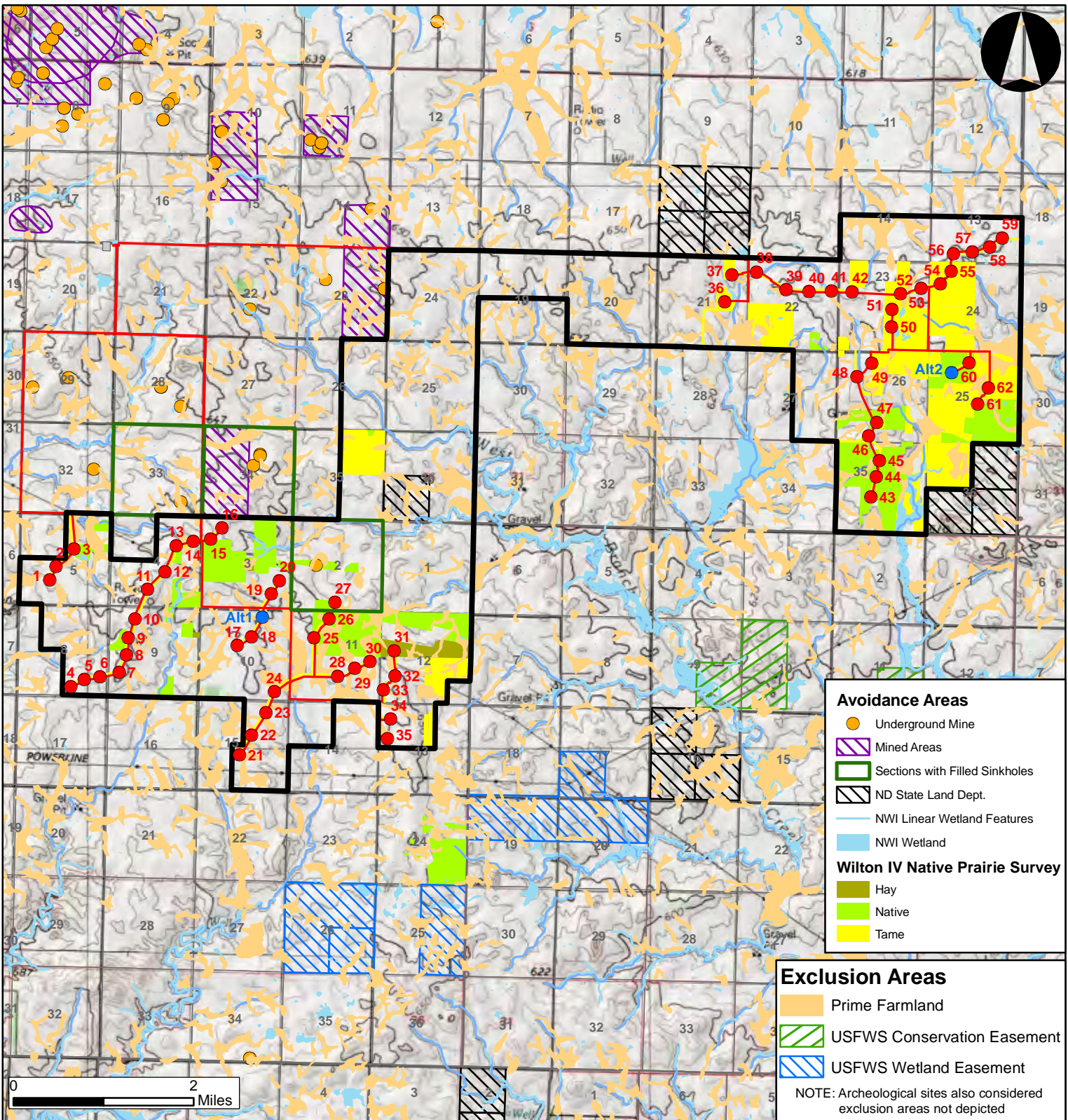
NOVEMBER 2011

TETRA TECH INC.

- Wilton IV Project Area (9/28/11)
- Proposed Turbine Location (9/21/11)
- Alternate Turbine Location (9/21/11)
- Permanent Turbine Impact Buffer
- Temporary Turbine Impact Buffer
- Permanent Service Road Impact Buffer
- Temporary Service Road Impact Buffer
- Temporary Collection Line Buffer
- Counties Boundary



Source: ESRI Topo 2007, ND GIS Hub, USGS Topo



# Wilton IV Wind Energy Center

BURLEIGH COUNTY, ND

## Figure 5. Exclusion and Avoidance Areas

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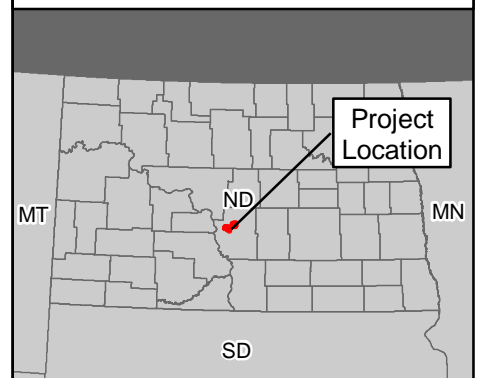


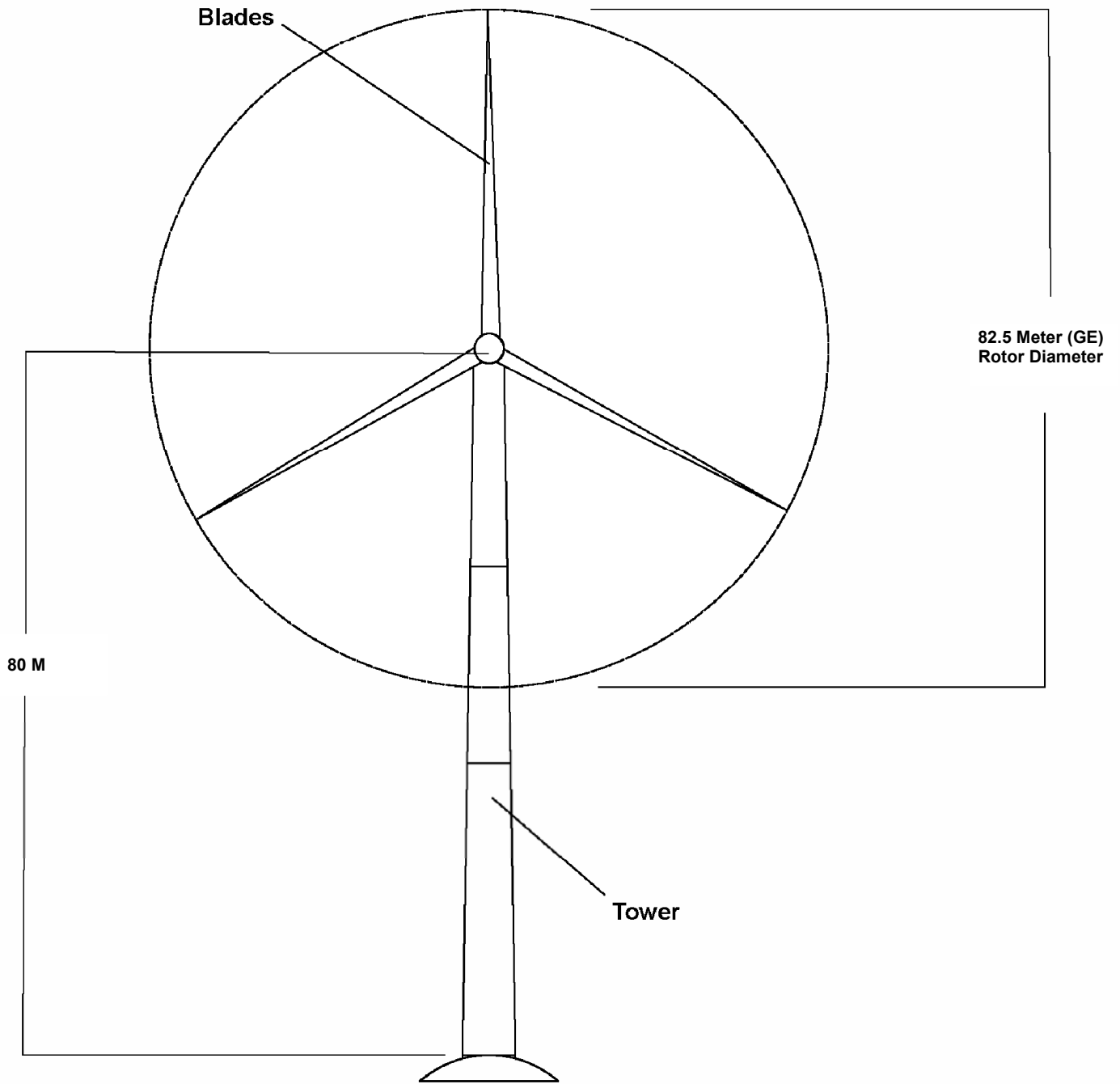
TETRA TECH INC.

- Wilton IV Project Area (9/28/11)
- Proposed Turbine Location (9/21/11)
- Alternate Turbine Location (9/21/11)
- Substation
- Collection System (10/3/11)
- Access Road (10/3/11)
- Township Boundary
- Counties Boundary

Source: ESRI Topo 2007, ND GIS Hub, USGS Topo, NDGS Deusch pers. comm. 2009, NextEra

## OVERVIEW MAP





GE 1.6 MW Xle Wind Turbine

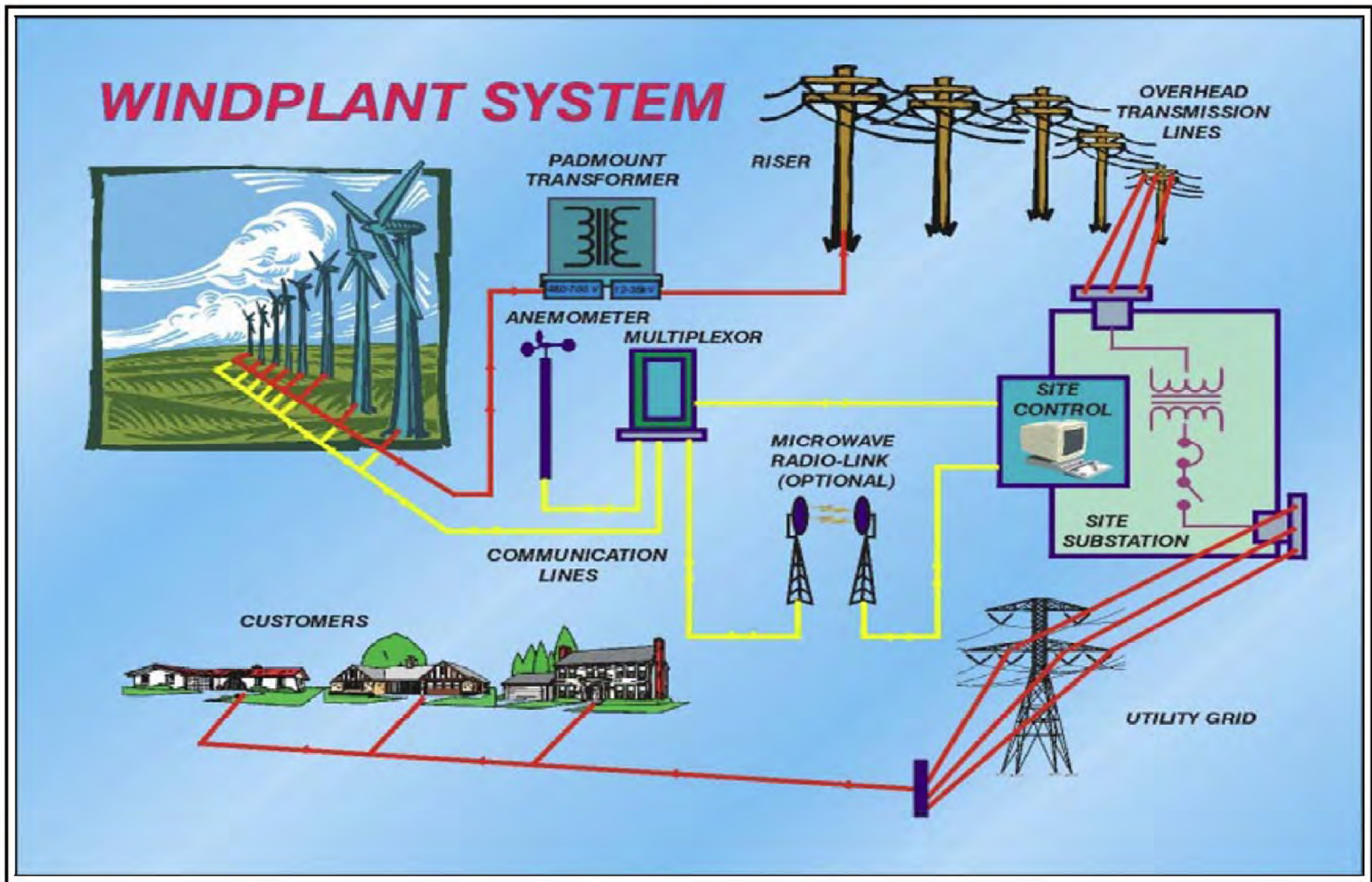


FIGURE 7

Path of Energy Diagram

Wilton IV Wind Energy Center

Burleigh County, North Dakota

November 2011



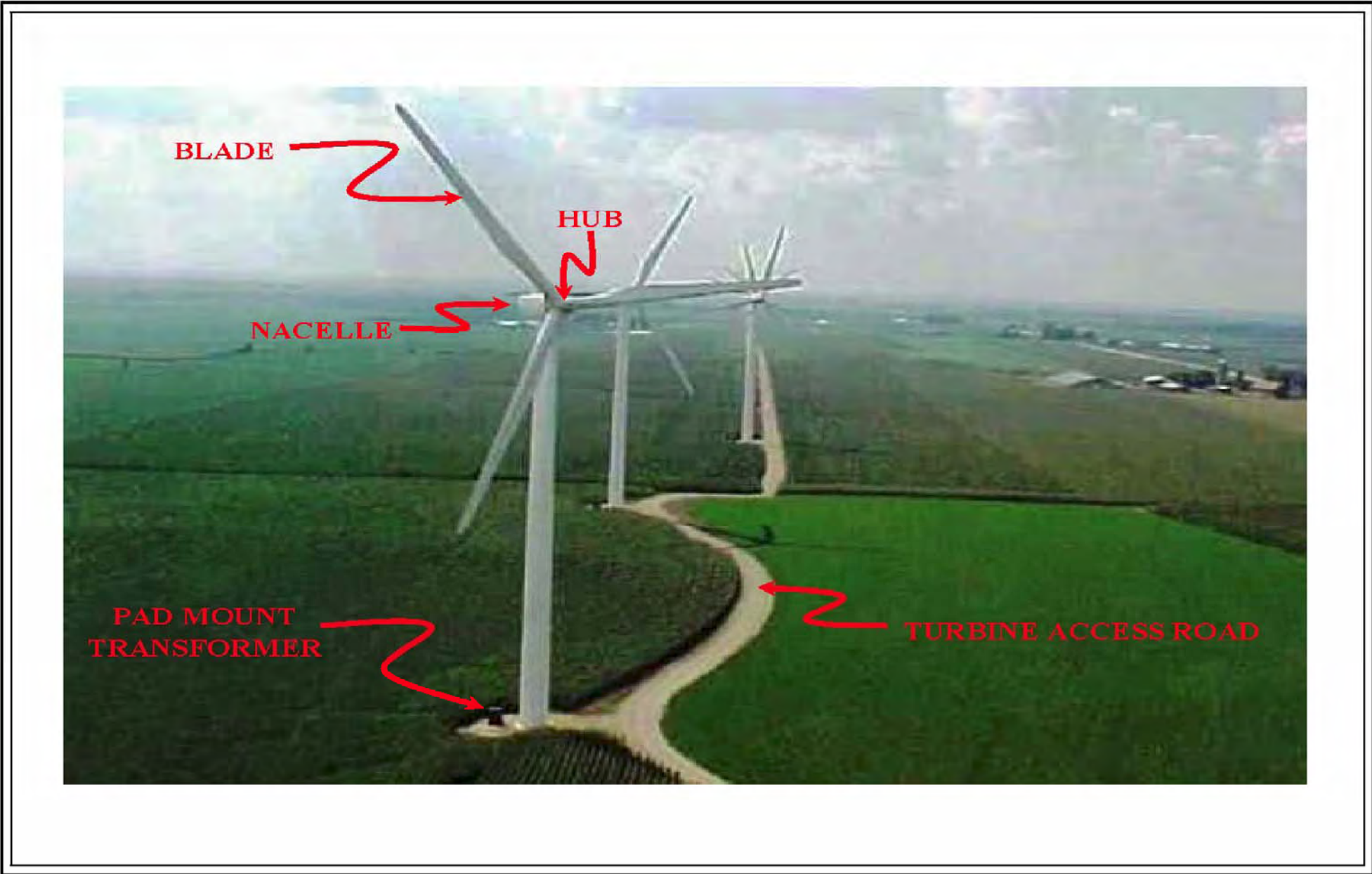
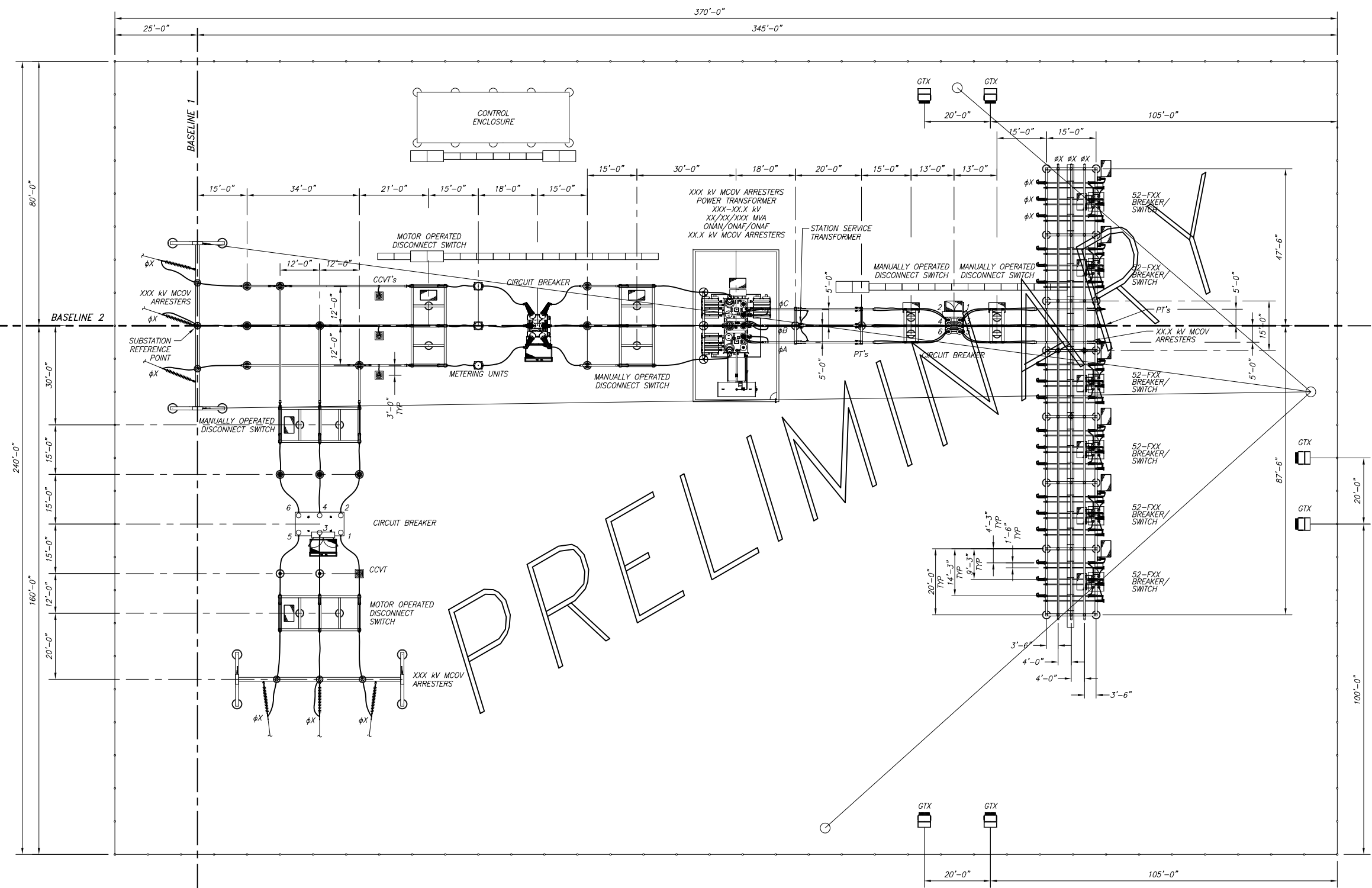


FIGURE 8

Typical Wind Energy Center Layout  
Wilton IV Wind Energy Center  
Burleigh County, North Dakota  
November 2011

PLOTTED: 10/13/11 05:47:40 PM FILENAME: C:\Documents and Settings\jfm.scott\My Documents\Misc Projects\Other 3 and Wilton 4\Wilton 4 Prelim GA.dwg USER: jfm.scott



PRELIMINARY

**NOTES**

- REFERENCE DRAWING XXXXX-0201 FOR SUBSTATION REFERENCE POINT LOCATION AND BASELINE BEARINGS.

**LEGEND**

— NEW CONSTRUCTION

**FIGURE 9**  
 Substation Site Plan  
 Wilton IV Wind Energy Center  
 Burleigh County, North Dakota  
 November 2011

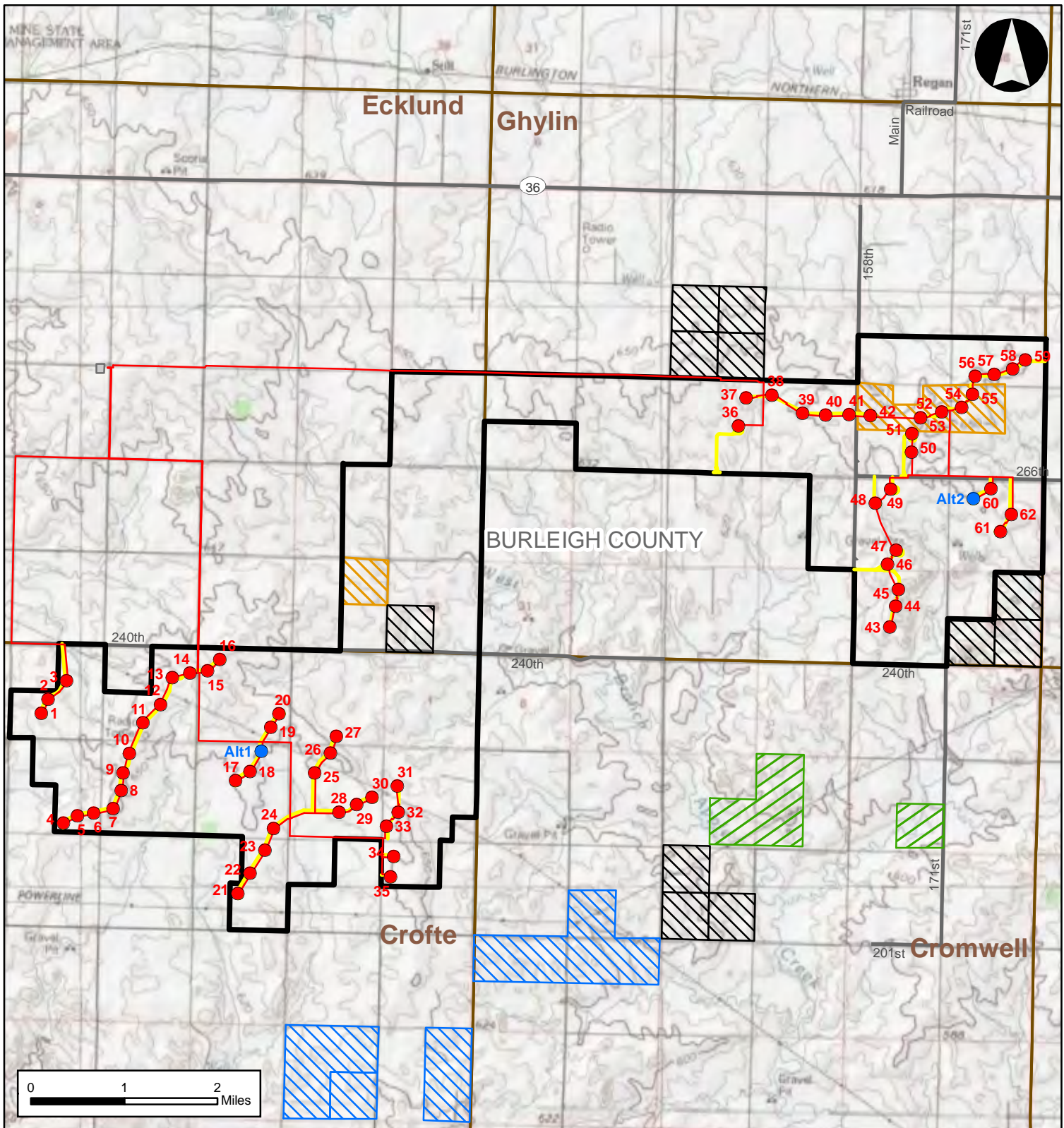
**PEAK POWER ENGINEERING**  
 A UniversalPegasus International Company  
 P.O. Box 340  
 Golden, Colorado 80402  
 (303) 462-1100 phone  
 (303) 462-2600 fax

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 SI: REG. REN:

**NEXTERA ENERGY RESOURCES**

REV	DESCRIPTION	ENG	DWN	CHK	DATE
A	FOR REVIEW	JDS	JDS	BVB	10/13/11

**NEXTERA ENERGY RESOURCES**  
**WILTON SUBSTATION PHASE IV**  
**GENERAL ARRANGEMENT**  
 SCALE: 0 16' 32' 48'  
 1/16"=1'-0"  
 DRAWING: XXXXX-0001  
 REV: A



# Wilton IV Wind Energy Center

BURLEIGH COUNTY, ND

**Figure 10. Public Lands and Easements**

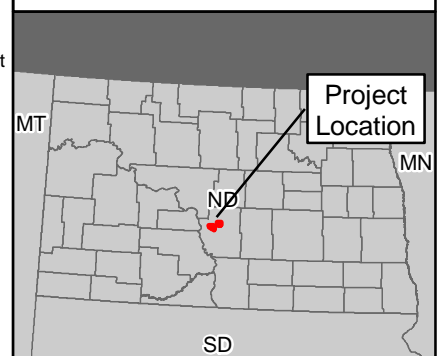
NOVEMBER 2011

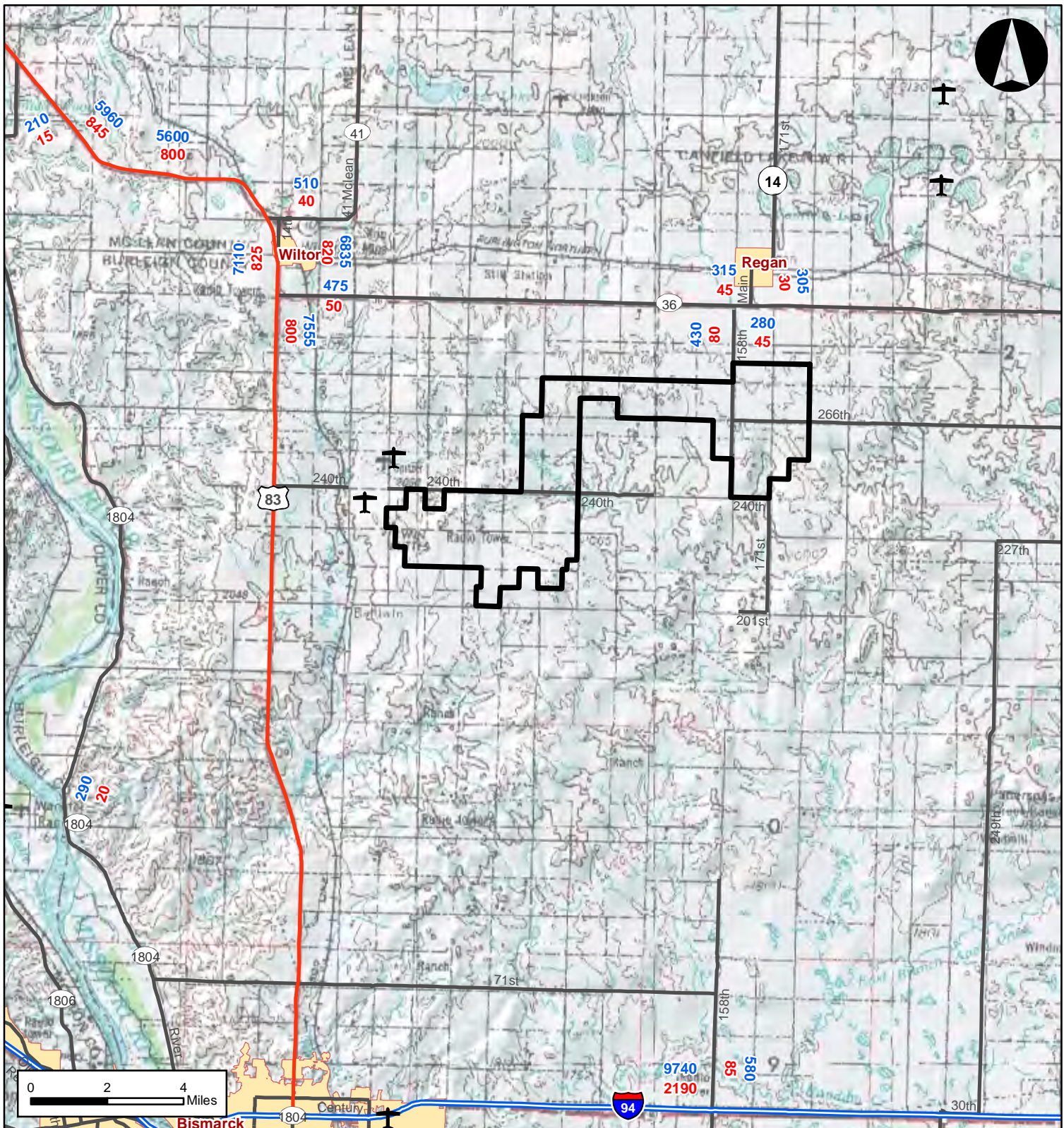


- Project Area (9/28/11)
- Proposed Turbine Location (9/21/11)
- Alternate Turbine Location (9/21/11)
- Substation
- Collection System (10/3/11)
- Access Road (10/3/11)
- ND State Land Dept.
- USFWS Conservation Easement
- USFWS Wetland Easement
- ND PLOTS Data
- County Boundary
- Township Boundary

Source: ESRI Topo 2007, ND GIS Data Hub, ND G&F

## OVERVIEW MAP





# Wilton IV Wind Energy Center

BURLEIGH COUNTY, ND

## Figure 11. Average Daily Traffic Map

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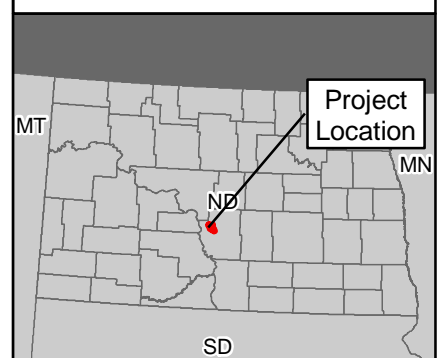


TETRA TECH, INC.

- Project Area (9/28/11)
- Airport
- Limited Access Highway
- Highway
- Major Road
- Populated Place
- 320 Average Annual Daily Traffic
- 55 Commercial Truck Traffic

Source: ESRI Topo 2007, NDDOT 2010

### OVERVIEW MAP





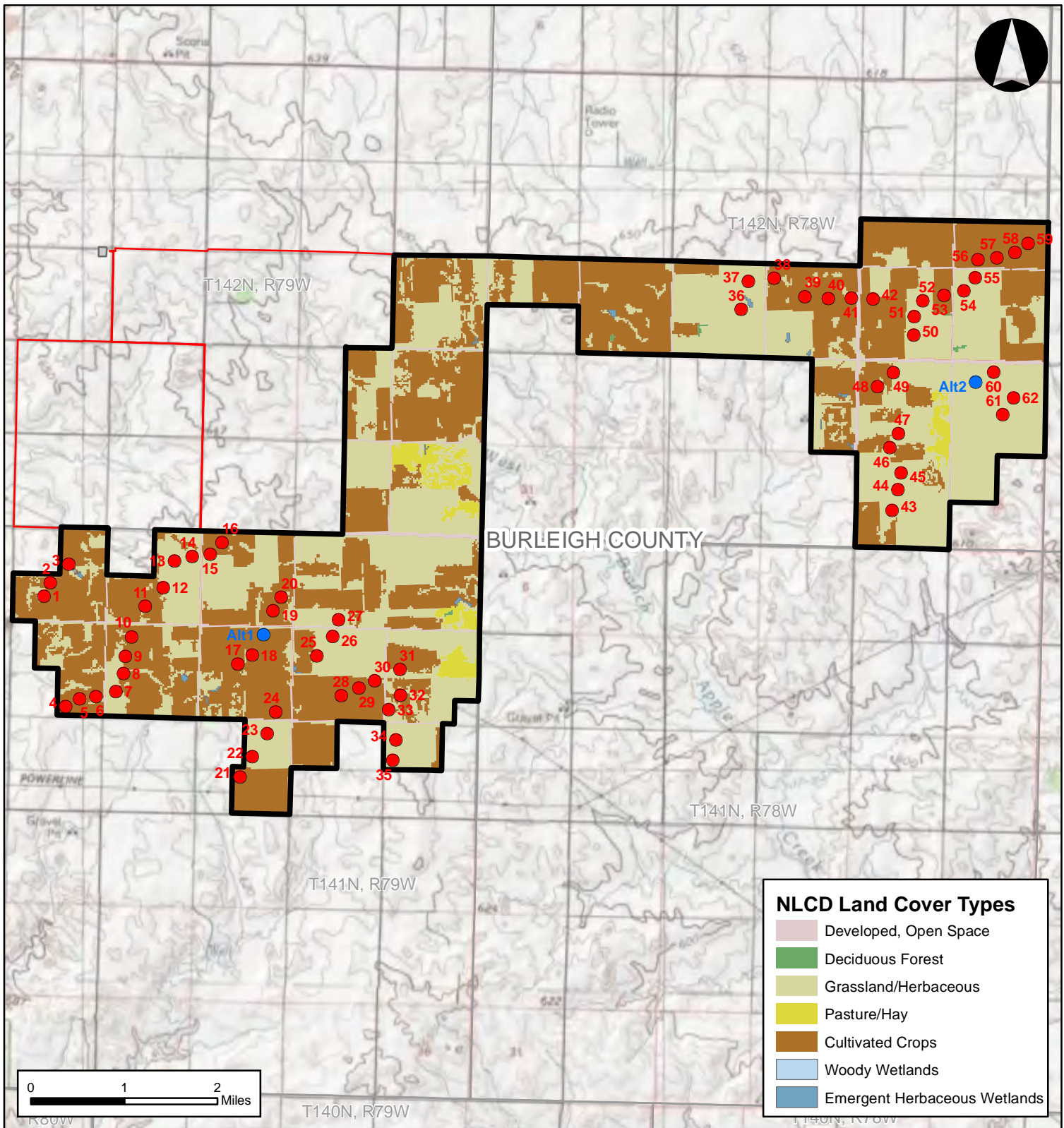
**FIGURE 12**

**Photo of Typical Landscape  
Wilton IV Wind Energy Center**

**Burleigh County, North Dakota**

**November 2011**






**NLCD Land Cover Types**

- Developed, Open Space
- Deciduous Forest
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
- Woody Wetlands
- Emergent Herbaceous Wetlands

**Wilton IV Wind Energy Center**  
 BURLEIGH COUNTY, ND

**Figure 13. Land Cover Map**

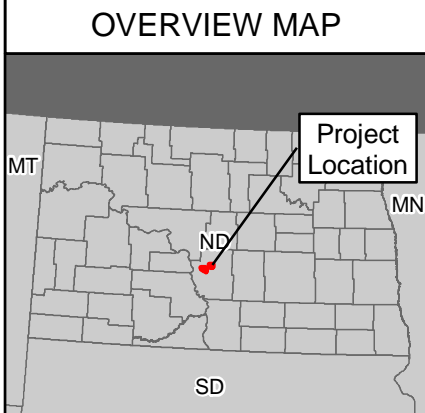
NOVEMBER 2011

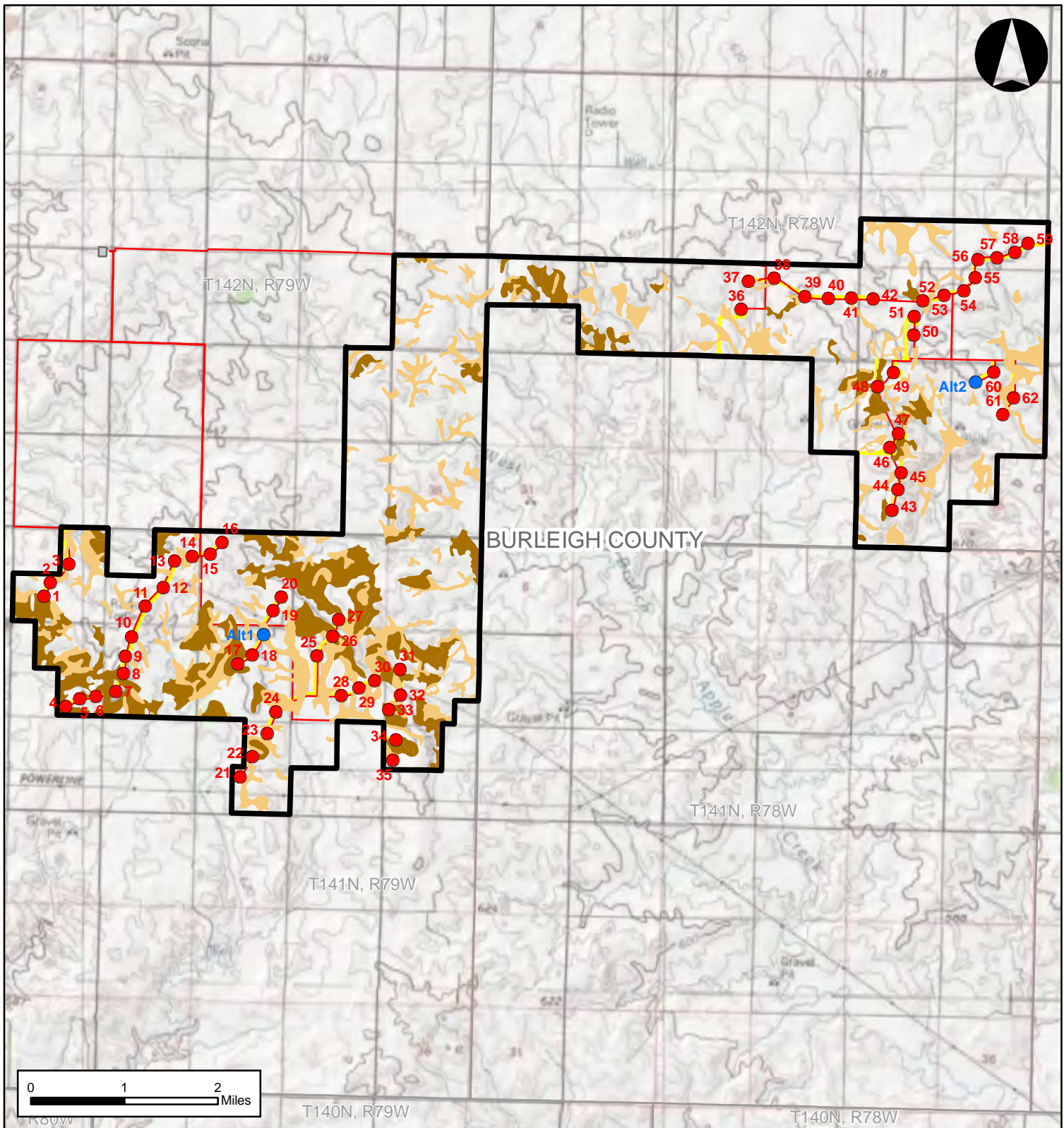


TETRA TECH, INC.

- Project Area (9/28/11)
- Proposed Turbine Location (9/21/11)
- Alternate Turbine Location (9/21/11)
- Substation
- Collection System (10/3/11)
- Access Road (10/3/11)
- County Boundary
- Township Boundary

Source: ESRI Topo 2007, NLCD 2006





# Wilton IV Wind Energy Center

BURLEIGH COUNTY, ND

## Figure 14. Prime Farmland Soil Distribution Map

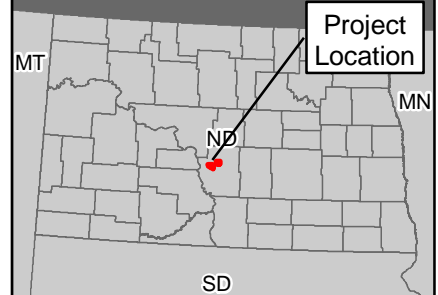
NOVEMBER 2011

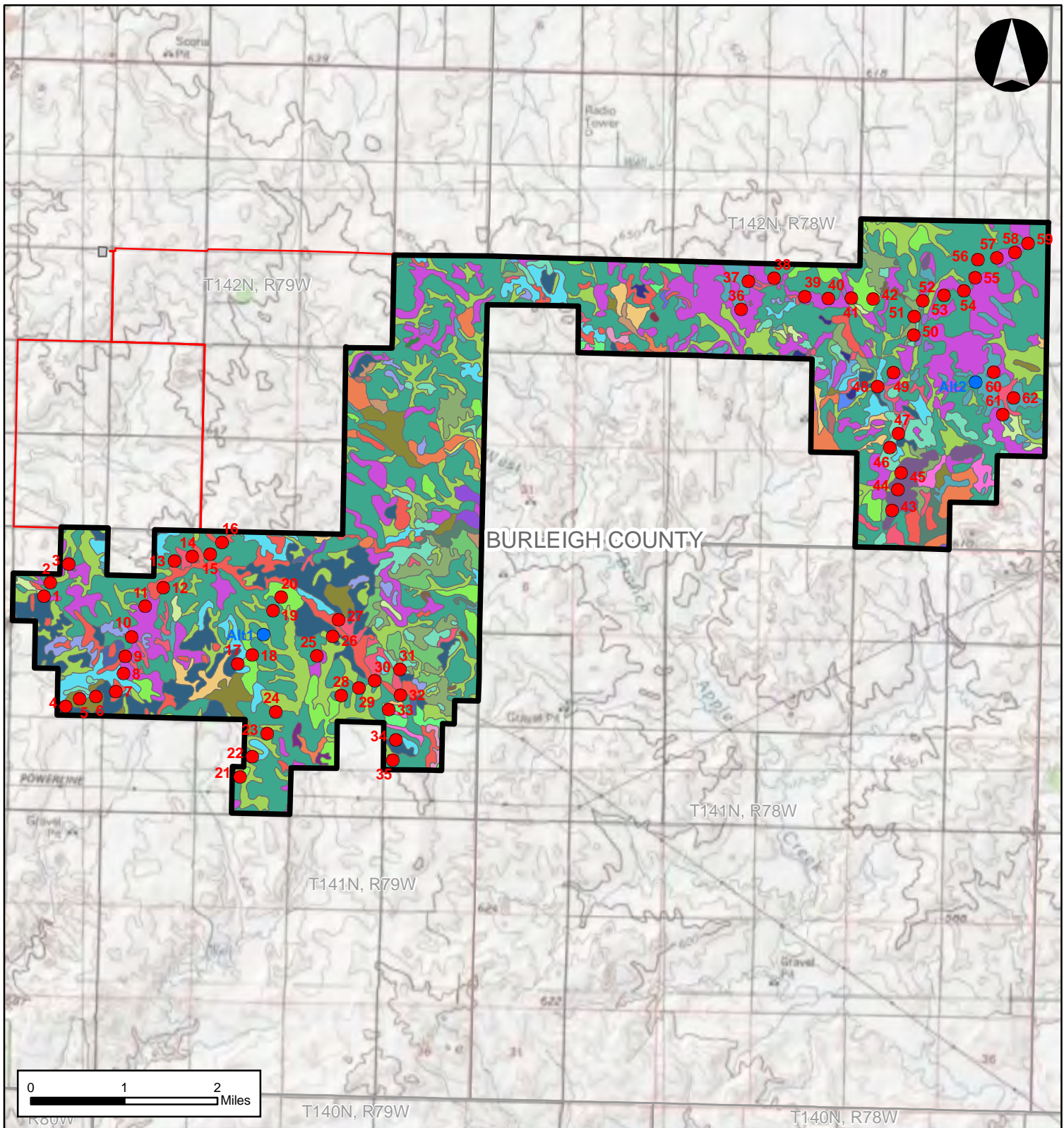


- Project Area (9/28/11)
- Proposed Turbine Location (9/21/11)
- Alternate Turbine Location (9/21/11)
- Substation
- Collection System (10/3/11)
- Access Road (10/3/11)
- Prime Farmland
- Farmland of statewide importance
- County Boundary
- Township Boundary

Source: ESRI Topo 2007, USDA 2009

### OVERVIEW MAP





**Wilton IV Wind Energy Center**  
BURLEIGH COUNTY, ND

**Figure 15. State Soils Association Map**

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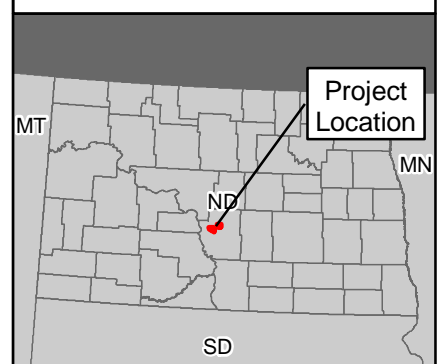
- Project Area (9/28/11)
- Proposed Turbine Location (9/21/11)
- Alternate Turbine Location (9/21/11)
- Collection System (10/3/11)
- Access Road (10/3/11)
- Substation

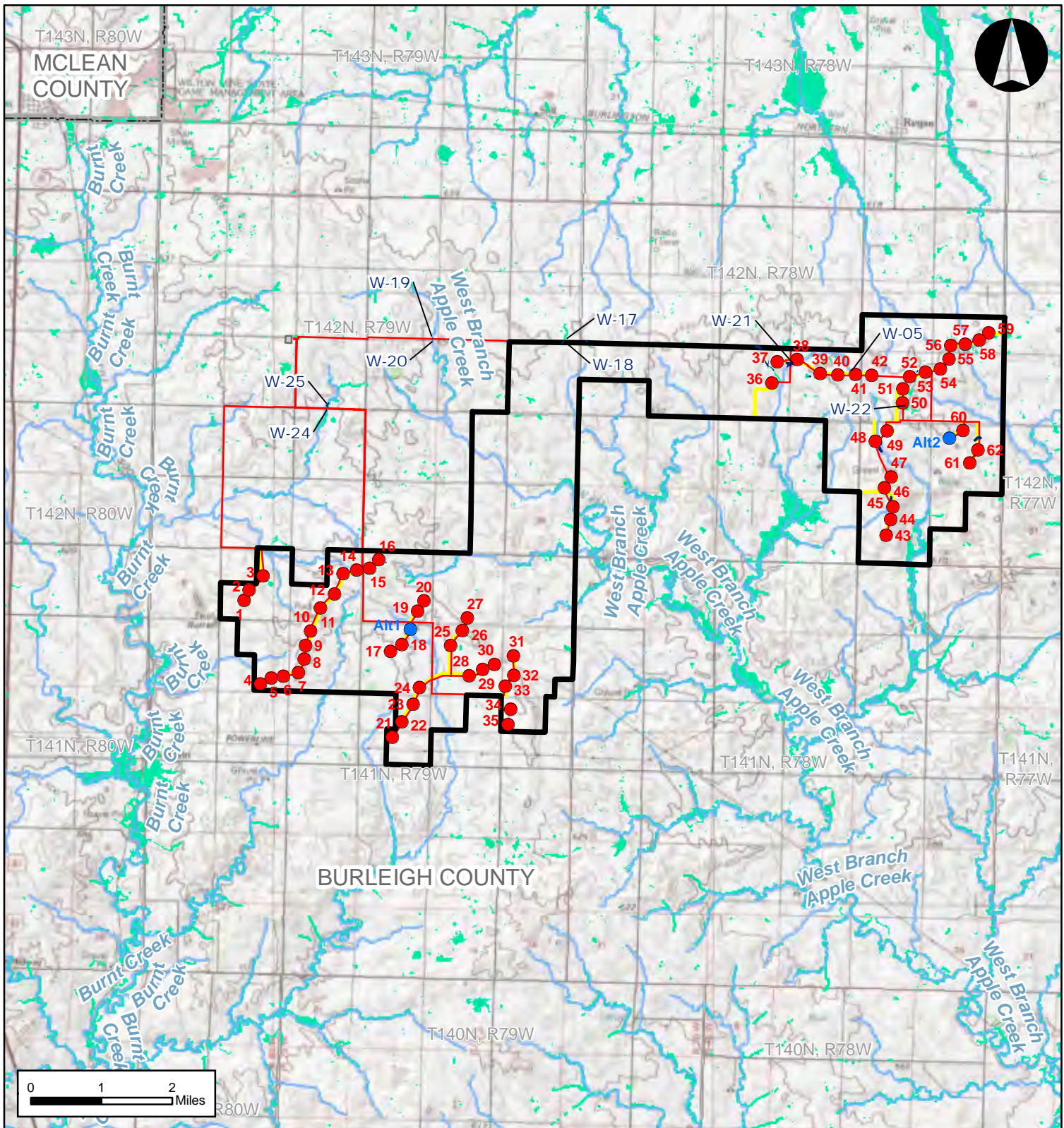
**Soils Units (symbols)**

AgA	FrF	NbA	SeA	TgB	WcF	WsD
AgB	GI A	NbB	SnB	Tp	WeE	WzE
Bs	GIB	Rc	SnC	VbB	WIC	
Ch	GrA	RgC	SnD	VbC	WsA	
FhC	LeA	RhB	Sv	W	WsB	
FmE	LeB	RWA	TeA	WaD	WsC	

Source: ESRI Topo 2007, USDA 2009

**OVERVIEW MAP**





**Wilton IV Wind Energy Center**  
BURLEIGH COUNTY, ND

**Figure 16. National Wetlands Inventory and Surface Waters Map**  
NOVEMBER 2011



- Project Area (9/28/11)
- Proposed Turbine Location (9/21/11)
- Alternate Turbine Location (9/21/11)
- Substation
- Collection System (10/3/11)
- Access Road (10/3/11)
- Delineated Linear Wetland Feature
- Delineated Wetland
- Stream
- NWI Linear Wetland Feature
- NWI Wetland

Source: ESRI Topo 2007, NWI 2009, Tetra Tech 2009, Tetra Tech 2011

**OVERVIEW MAP**

