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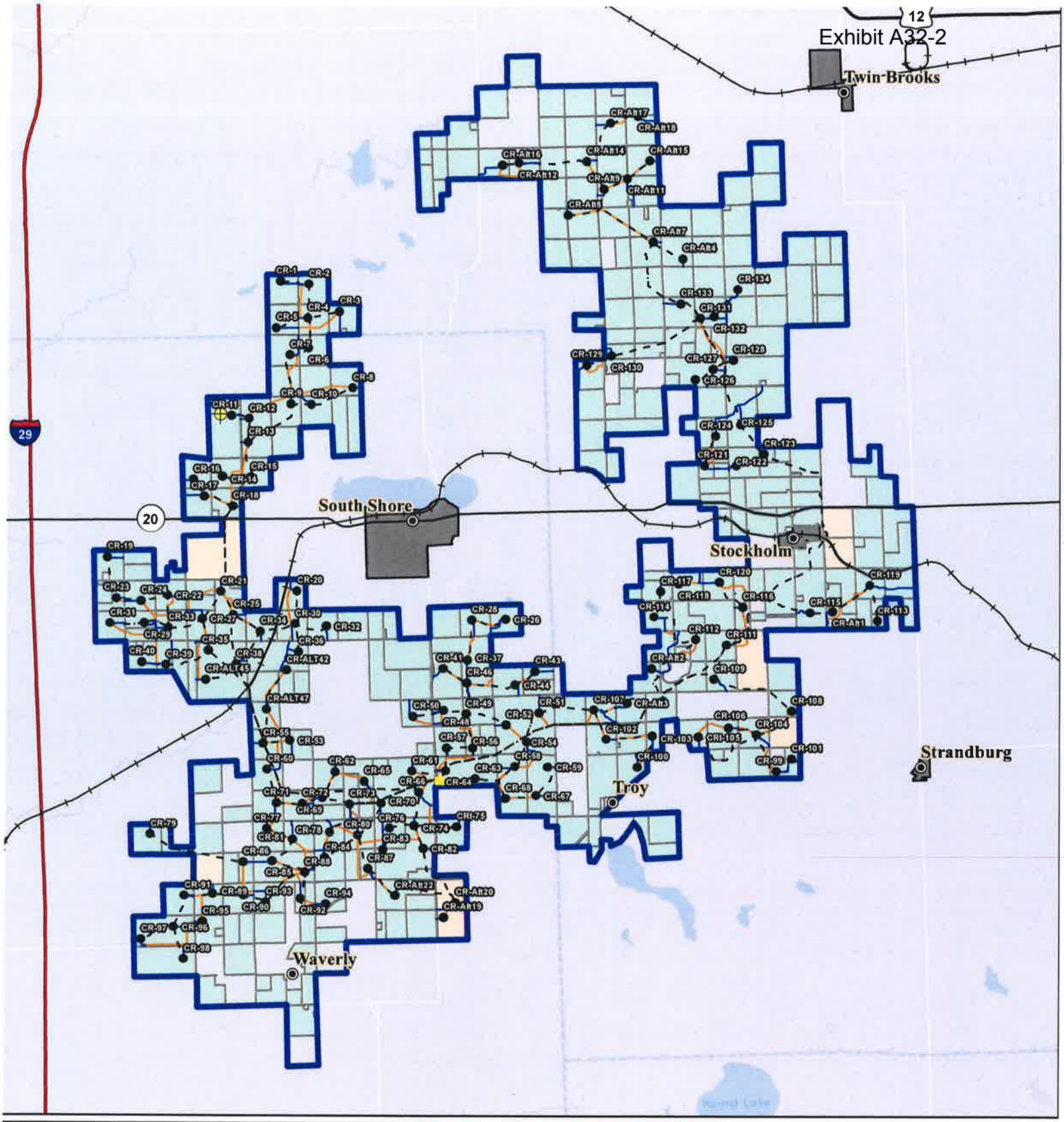

Figure 3. Project Map

Crowned Ridge Wind Farm

- MET Tower
- Turbine
- City
- Access Road
- Collector Line
- Crane Path
- Railroad
- Interstate Highway
- U.S. Highway
- State Highway
- O&M Facility/ Substation
- Town Boundary
- Project Boundary

Lease Status

- Leased, Signed
- Pending Approval

Kilometers 0 2.5 5

Miles 0 2.5 5

Base Map: World Light Gray Canvas Base Sources: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community Codington and Grant Counties, South Dakota

010114 SWCA

Projection: NAD 1983 UTM Zone 14N

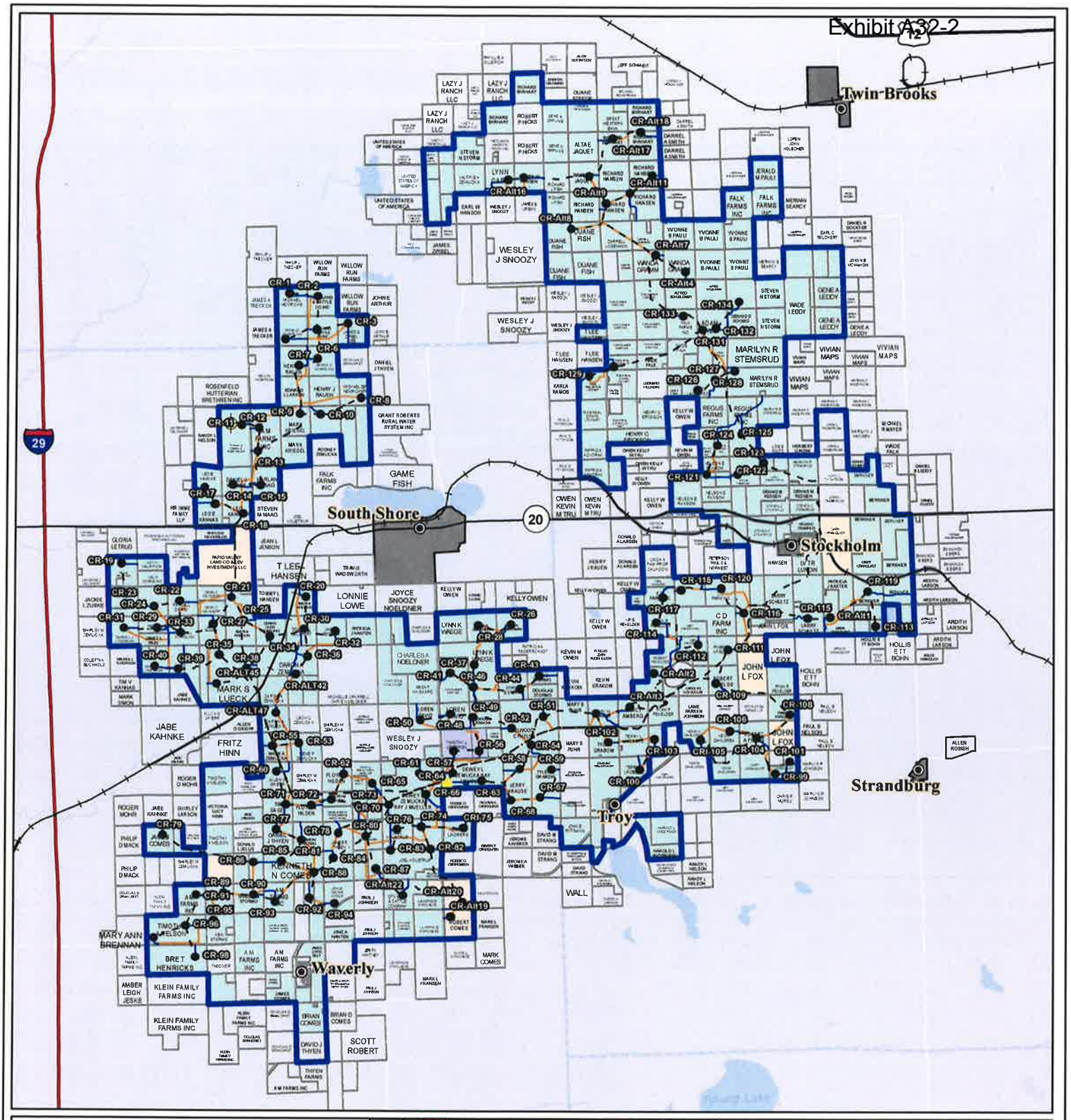

Figure 3a. Project Map

Crowned Ridge Wind Farm

- MET Tower
- Turbine
- City
- Access Road
- Collector Line
- Crane Path
- Railroad
- Interstate Highway
- U.S. Highway
- State Highway
- O&M Facility/ Substation
- Town Boundary
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- Parcel Boundary

Lease Status

- Leased, Signed
- Pending Approval
- Under Option but Likely to Expire/Not Resign

Kilometers 0 2.5 5

Miles 0 2.5 5

Base Map: World Light Gray Canvas Base Sources: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community Codington and Grant Counties, South Dakota

Projection: NAD 1983 UTM Zone 14N

SWCA ENVIRONMENTAL CONSULTANTS

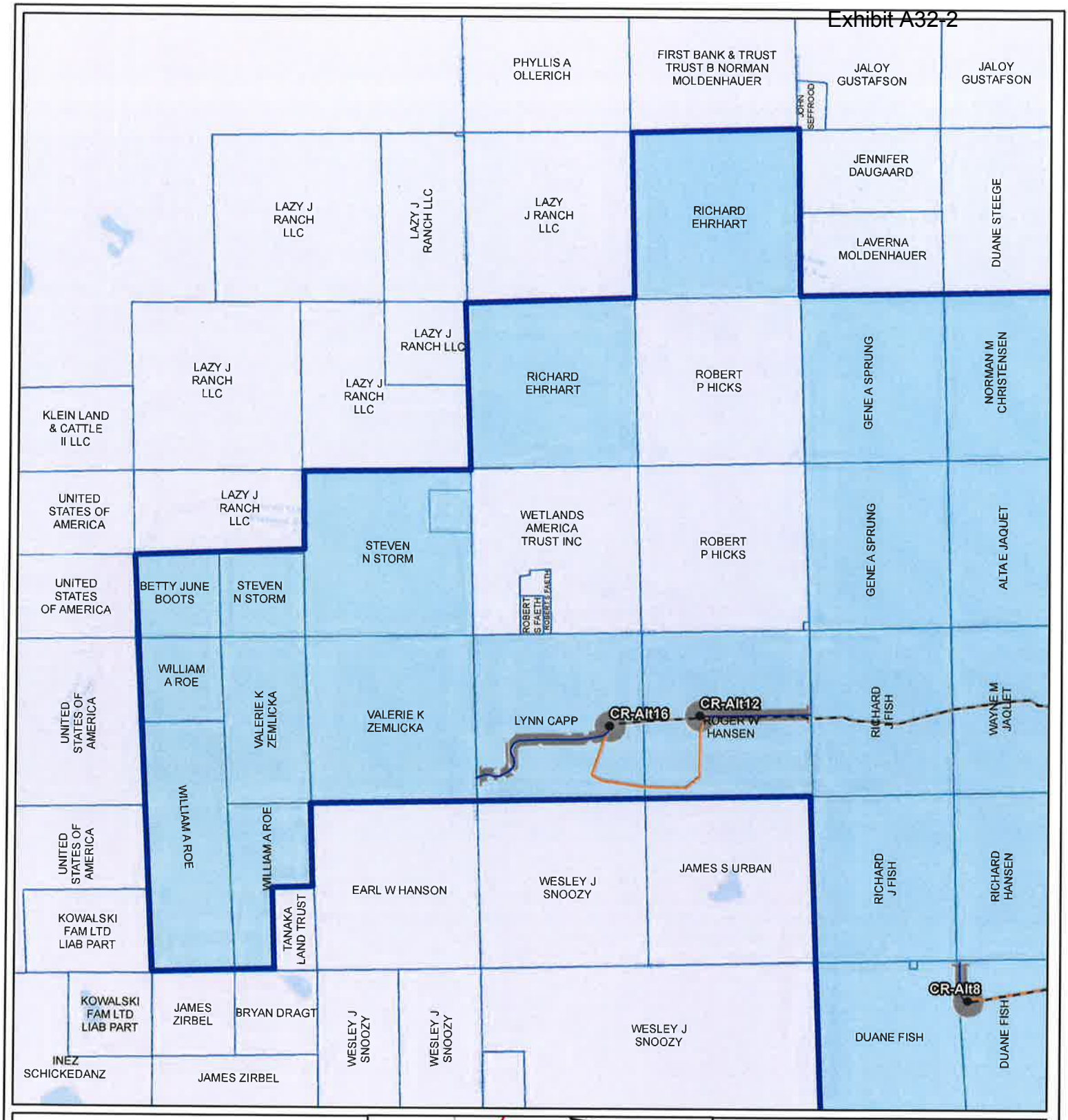


Figure 3a. Project Map

Crowned Ridge Wind Farm

- Turbine
- MFT Tower
- City
- Access Road
- Collector Line
- Crane Path
- Railroad
- O&M Facility/ Substation
- Batch Plant
- Laydown Yard
- Construction Easement
- Parcel Boundary
- Project Boundary
- County Boundary

Lease Status

- Leased, Signed
- Pending
- Under Option but Likely to Expire/Not Resign

Kilometers: 0 – 0.5 – 1

Miles: 0 – 0.25 – 0.5

Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community

Quadrangle: Antelope Valley (1973), Twin Brooks (1973)

Township/Range: T120N, R51W, T120N, R50W

Grant County, South Dakota

Projection: NAD 1983 UTM Zone 14N

SWCA ENVIRONMENTAL CONSULTANTS

Exhibit A32-2

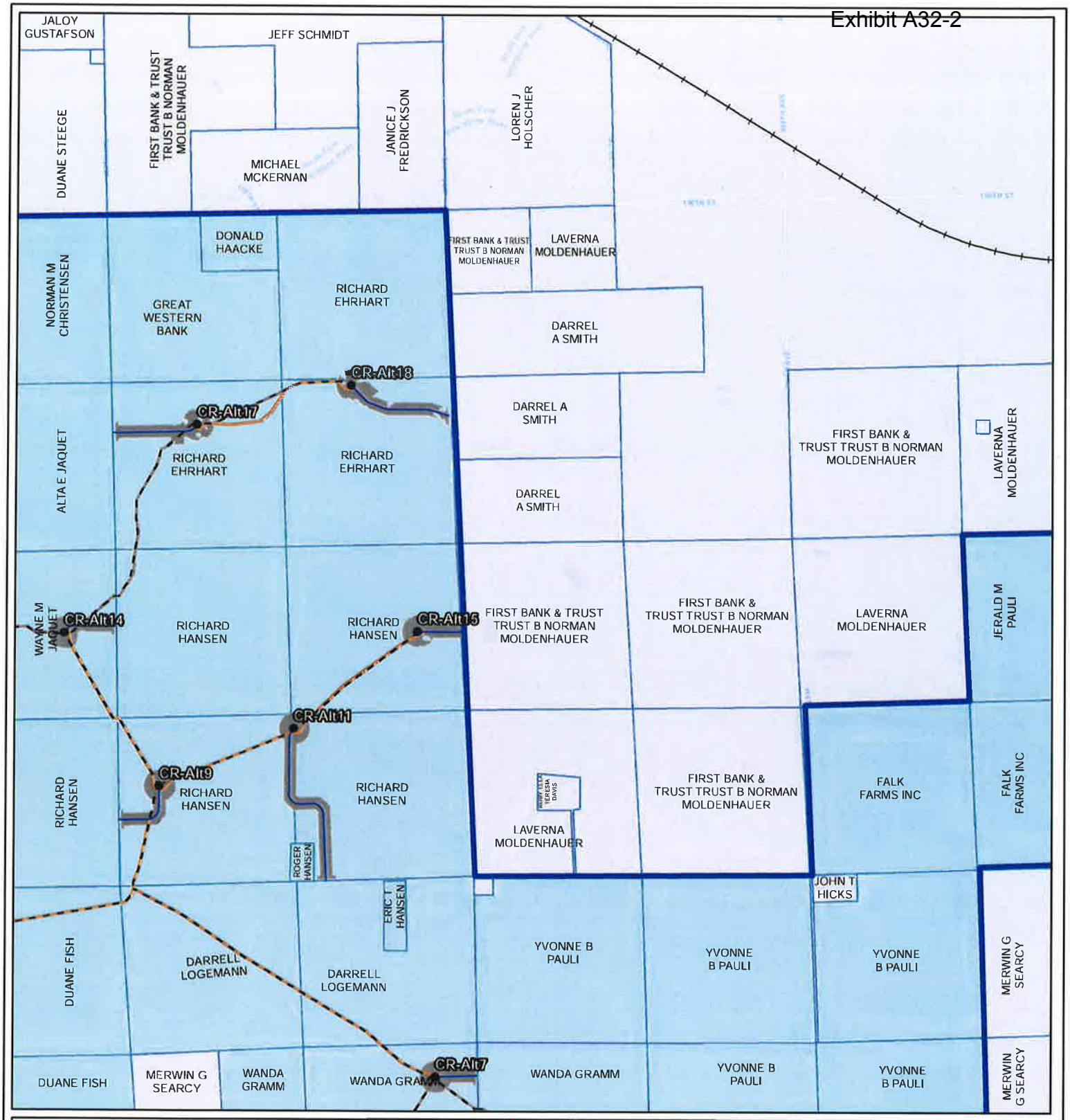


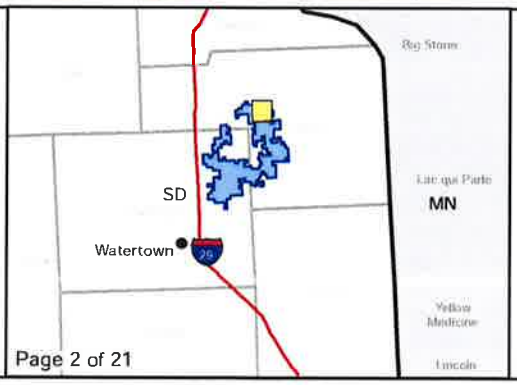
Figure 3a. Project Map

Crowned Ridge Wind Farm

- Turbine
- MET Tower
- City
- Access Road
- Collector Line
- Crane Path
- Railroad
- O&M Facility/ Substation
- Batch Plant
- Laydown Yard
- Construction Easement
- Parcel Boundary
- Project Boundary
- County Boundary

Lease Status

- Leased, Signed
- Pending
- Under Option but Likely to Expire/Not Resign



Kilometers: 0 – 0.5 – 1

Miles: 0 – 0.25 – 0.5

Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community

Quadrangle: Twin Brooks (1973)

Township/Range: T120N, R50W

Grant County, South Dakota

Projection: NAD 1983 UTM Zone 14N

SWCA ENVIRONMENTAL CONSULTANTS

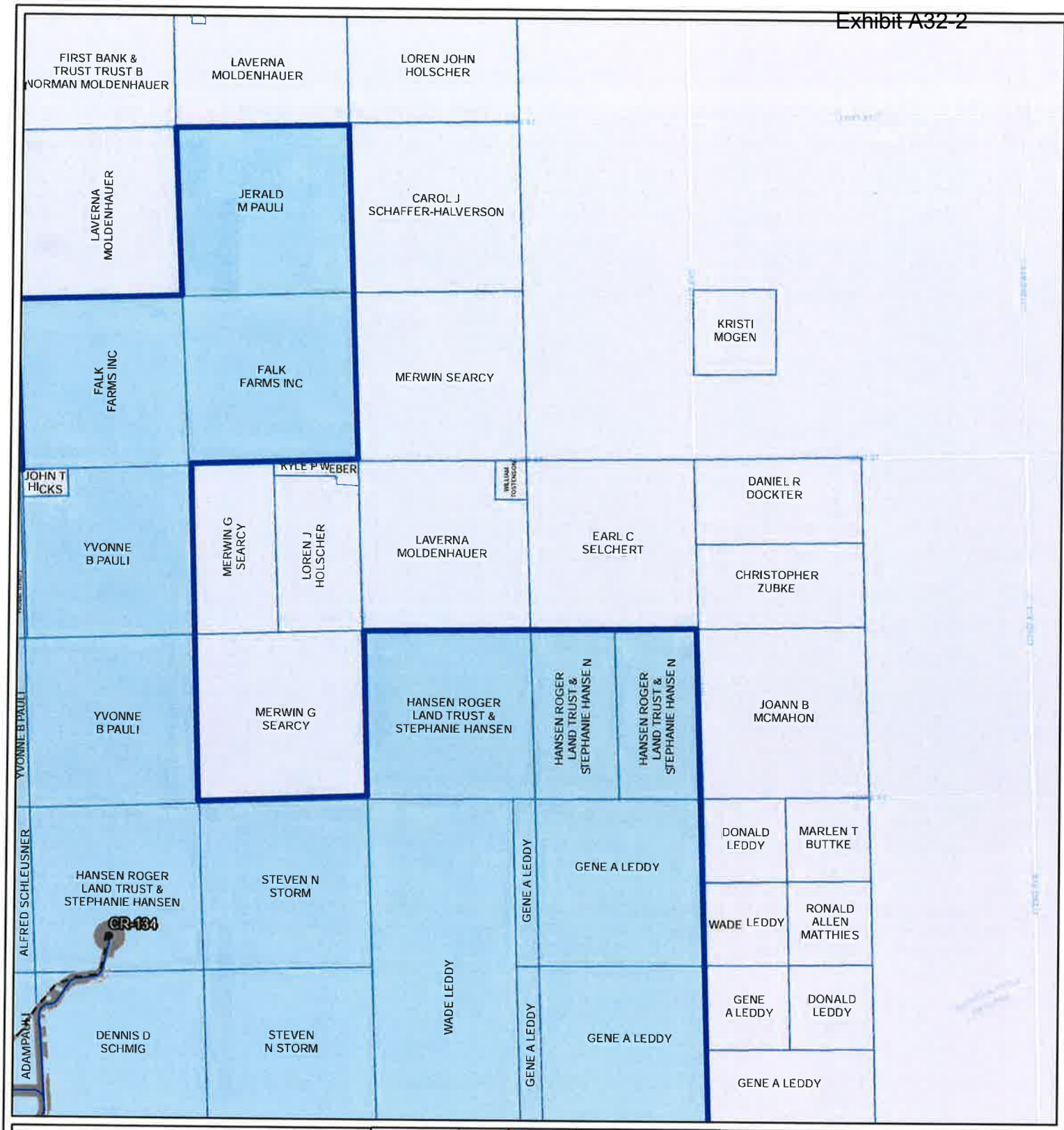


Figure 3a. Project Map

Crowned Ridge Wind Farm

- Turbine
- MET Tower
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- Collector Line
- Crane Path
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- County Boundary

Lease Status

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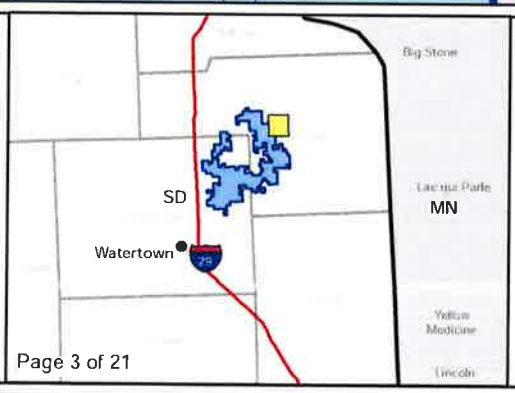
- Pending
- Under Option but Likely to Expire/Not Resign



Kilometers: 0 – 0.5 – 1

Miles: 0 – 0.25 – 0.5

Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community

Quadrangle: Twin Brooks (1973)

Township/Range: T120N, R50W

Grant County, South Dakota

Projection: NAD 1983 UTM Zone 14N

SWCA ENVIRONMENTAL CONSULTANTS

Exhibit A32-2

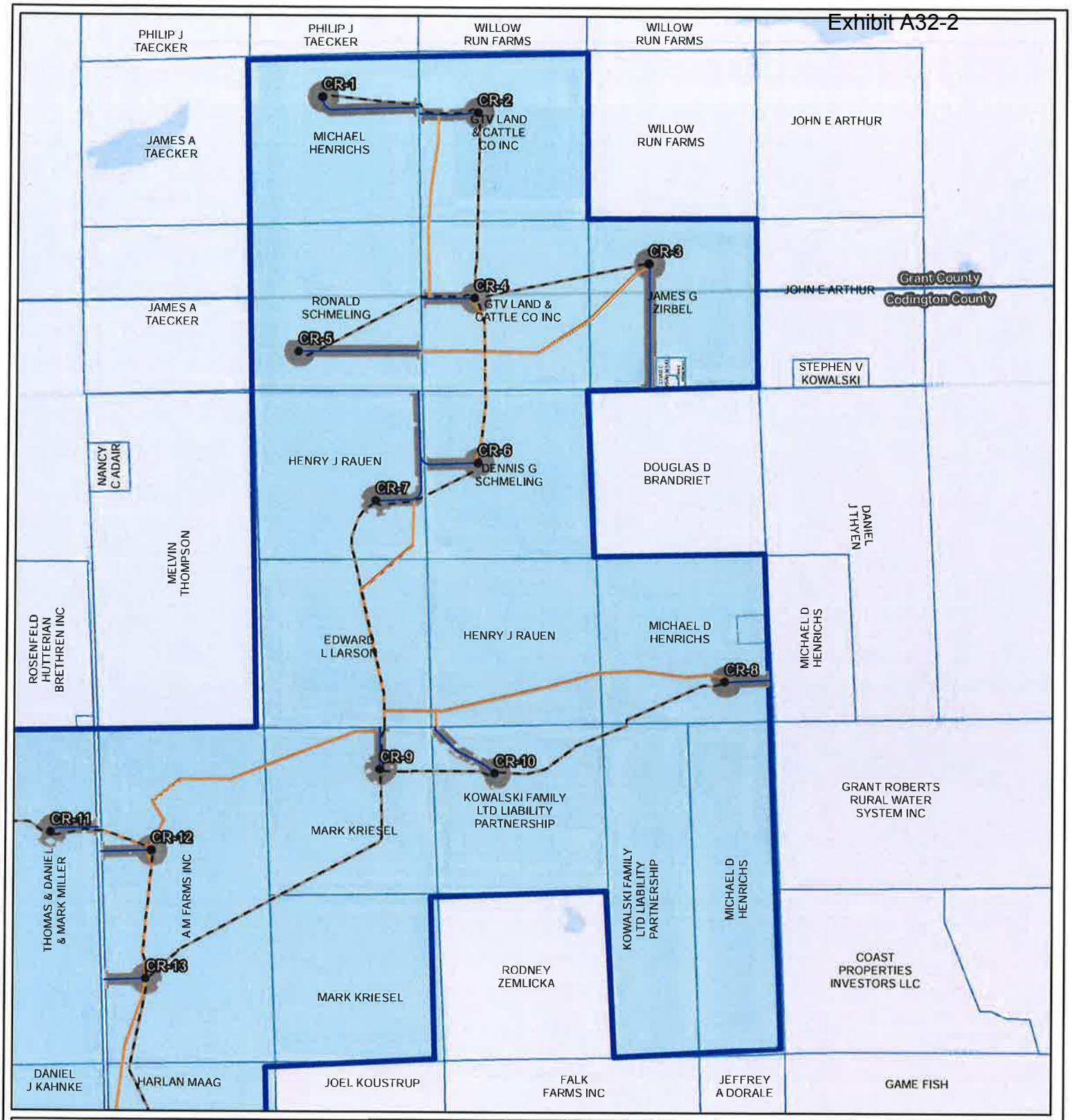


Figure 3a. Project Map

Crowned Ridge Wind Farm

- Turbine
- MET Tower
- City
- Access Road
- Collector Line
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- Construction Easement
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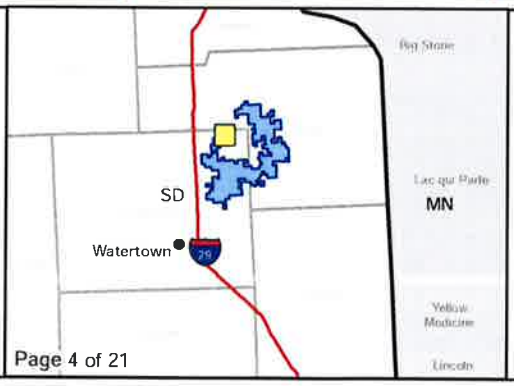
- Project Boundary
- County Boundary

Lease Status

- Leased, Signed
- Pending
- Under Option but Likely to Expire/Not Resign



Page 4 of 21

Kilometers
0 0.5 1

Miles
0 0.25 0.5

N W E S

Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community
Quadrangle: Antelope Valley (1973), South Shore (1973)
Township/Range: T120N, R51W, T119N, R51W,
Codington and Grant Counties, South Dakota

Projection: NAD 1983 UTM Zone 14N

SWCA ENVIRONMENTAL CONSULTANTS

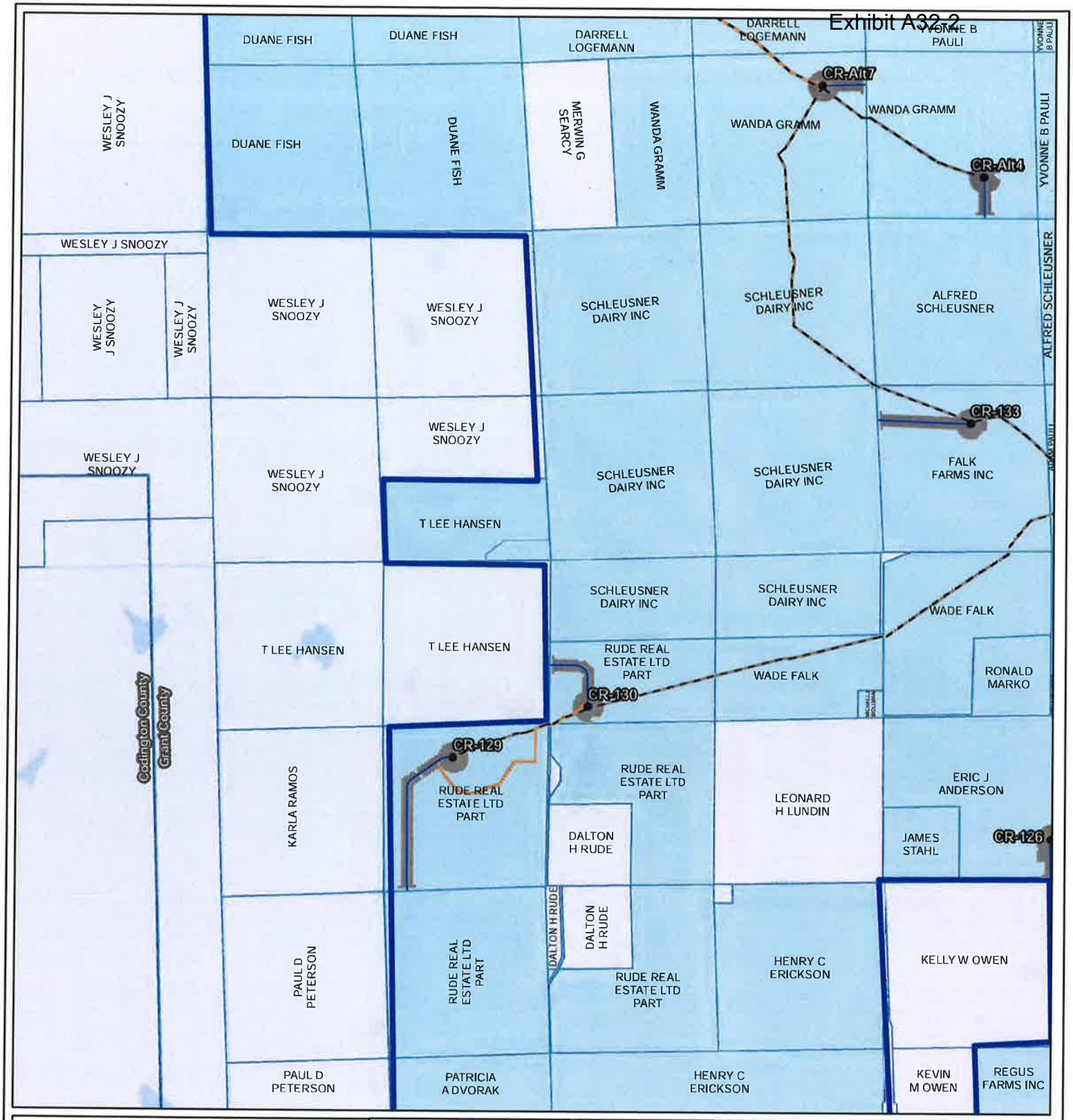


Figure 3a. Project Map

Crowned Ridge Wind Farm

- Turbine
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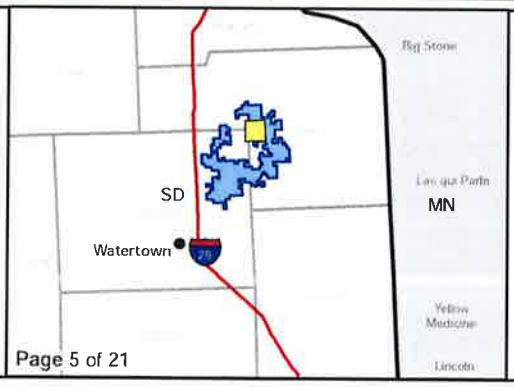
- Construction Easement
- Parcel Boundary
- Project Boundary
- County Boundary

Lease Status

- Leased, Signed
- Pending
- Under Option but Likely to Expire/Not Resign



Kilometers: 0 – 0.5 – 1

Miles: 0 – 0.25 – 0.5

Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community

Quadrangle: Antelope Valley (1973), Twin Brooks (1973)

Township/Range: T120N, R51W, T120N, R50W, T119N, R51W, T119N, R50W

Codington and Grant Counties, South Dakota

Projection: NAD 1983 UTM Zone 14N

SWCA ENVIRONMENTAL CONSULTANTS

Exhibit A32-2

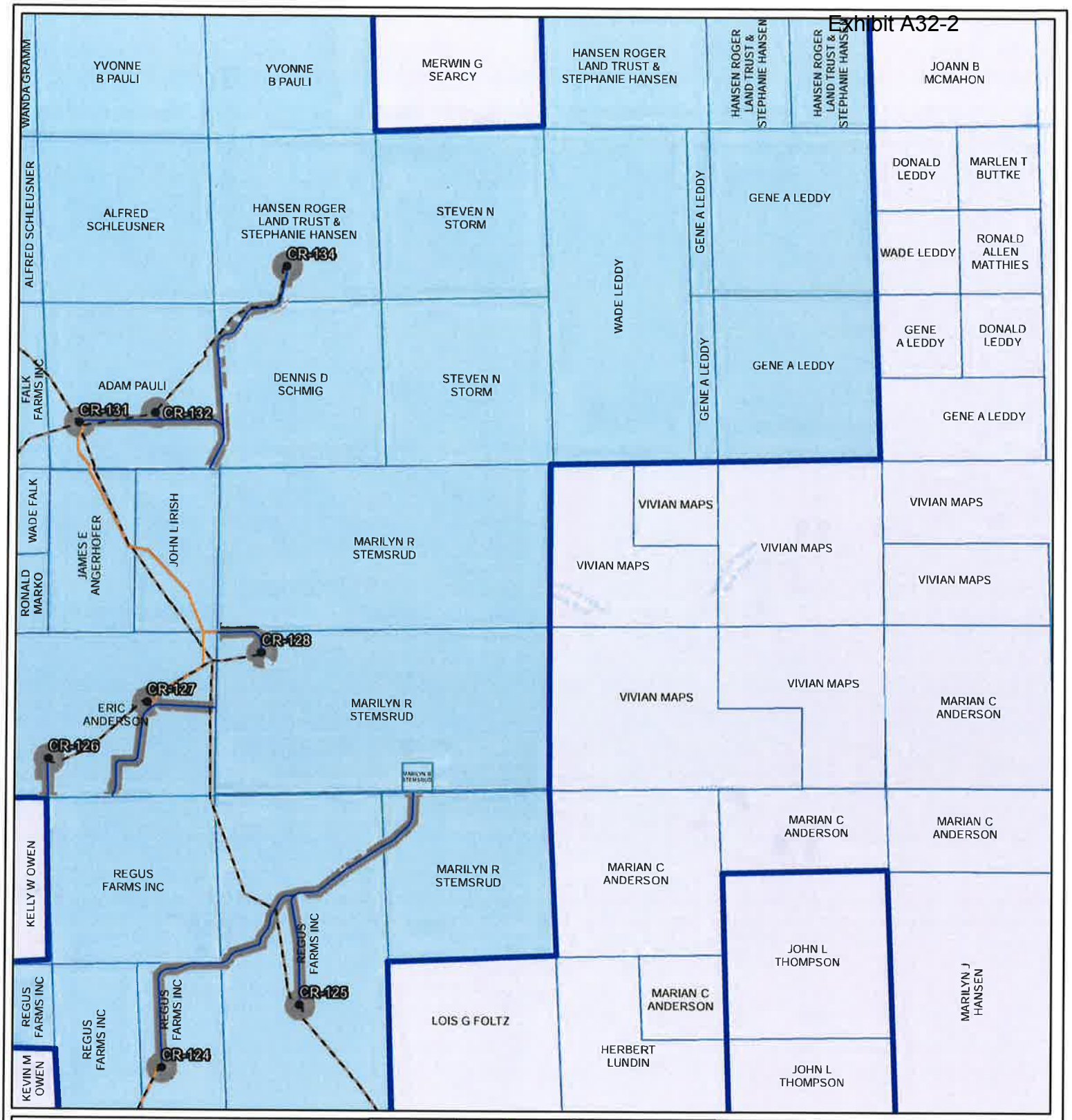


Figure 3a. Project Map

Crowned Ridge Wind Farm

- Turbine
- MET Tower
- City
- Access Road
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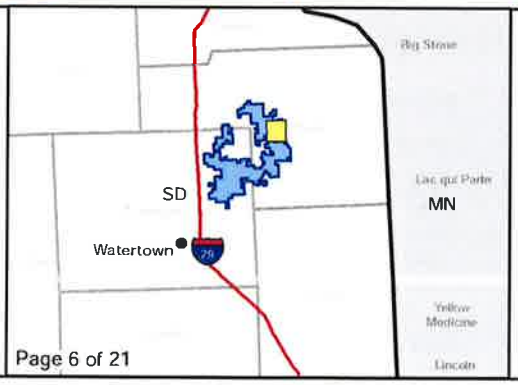

Kilometers
0 0.5 1

Miles
0 0.25 0.5

Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community
Quadrangle: Twin Brooks (1973), Stockholm (1973)
Township/Range: T120N, R50W, T119N, R50W
Grant County, South Dakota

Projection: NAD 1983 UTM Zone 14N

SWCA ENVIRONMENTAL CONSULTANTS

Exhibit A32-2

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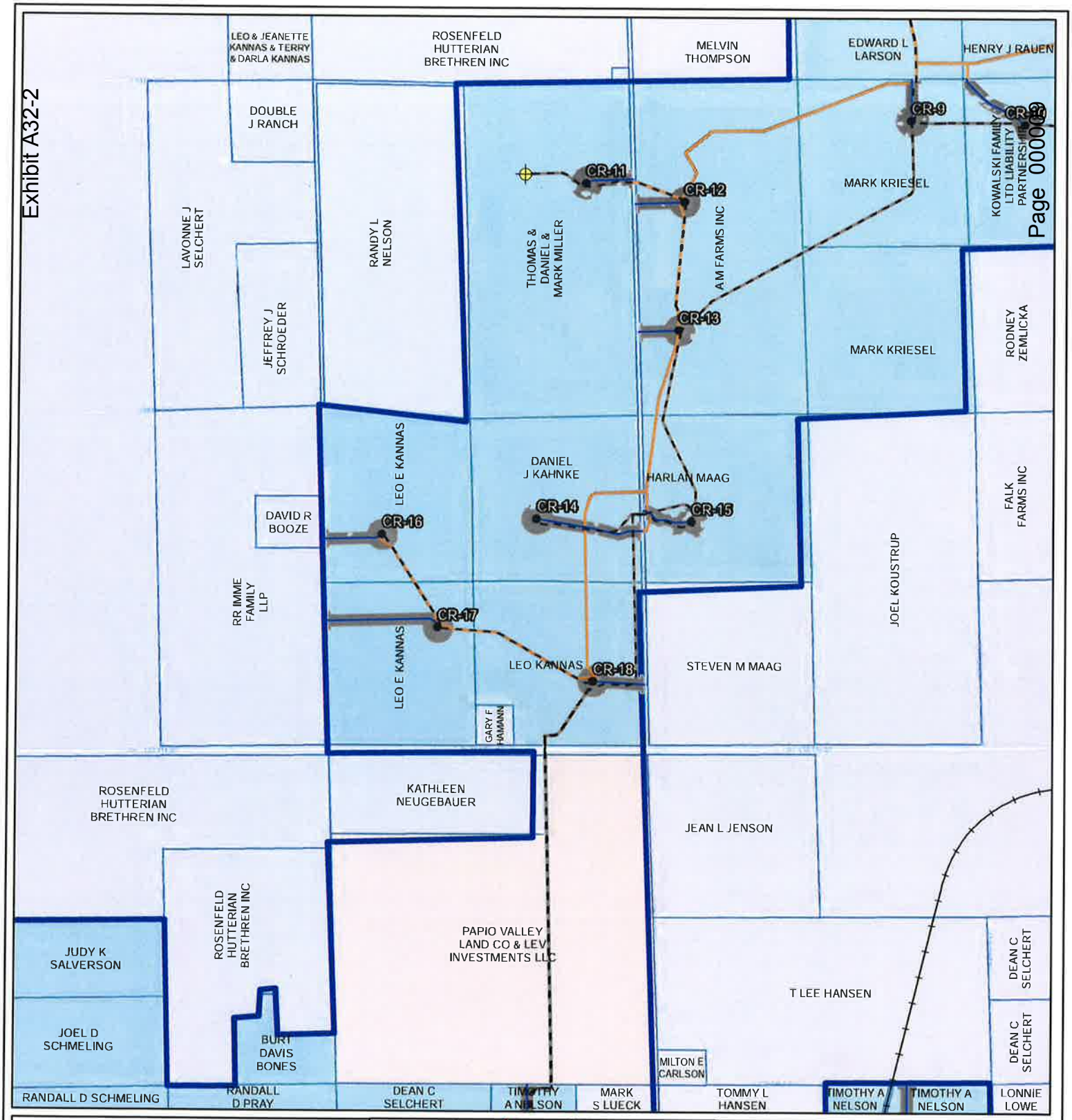

Figure 3a. Project Map

Crowned Ridge Wind Farm

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- Access Road
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Lease Status

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- Pending
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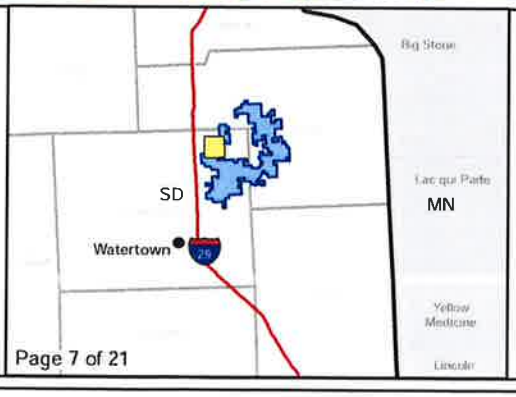

Kilometers: 0 – 0.5 – 1

Miles: 0 – 0.25 – 0.5

Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community

Quadrangle: Still Lake NE (1970), Antelope Valley (1973), Still Lake SE (1970), South Shore (1973)

Township/Range: T119N, R52W, T119N, R51W

Codington County, South Dakota

Projection: NAD 1983 UTM Zone 14N

SWCA ENVIRONMENTAL CONSULTANTS

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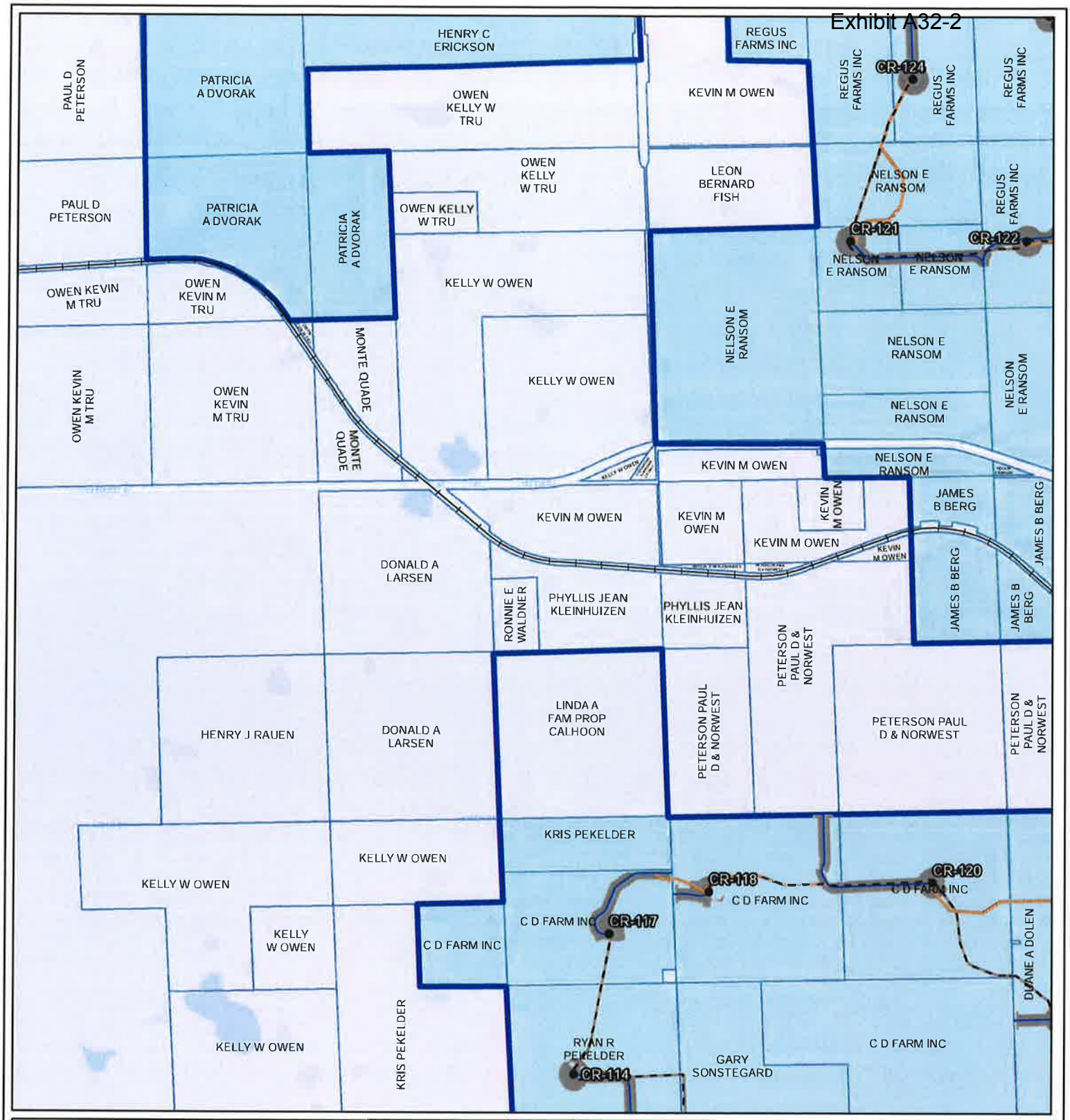

Figure 3a. Project Map

Crowned Ridge Wind Farm

- Turbine
- MET Tower
- City
- Access Road
- Collector Line
- Crane Path
- Railroad
- O&M Facility/ Substation
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- Project Boundary
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Lease Status

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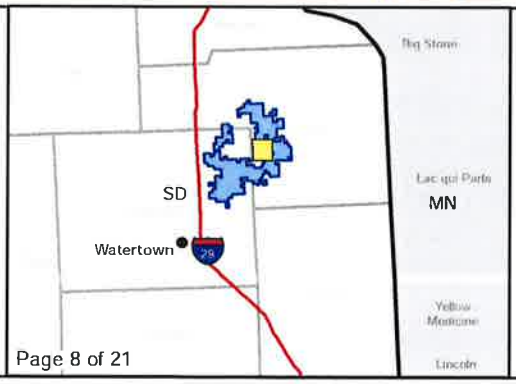

Kilometers
0 0.5 1

Miles
0 0.25 0.5

Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community
Quadrangle: Stockholm (1973), Antelope Valley (1973), Twin Brooks (1973), South Shore (1973)
Township/Range: T119N, R50W

Grant County, South Dakota

Projection: NAD 1983 UTM Zone 14N

SWCA ENVIRONMENTAL CONSULTANTS

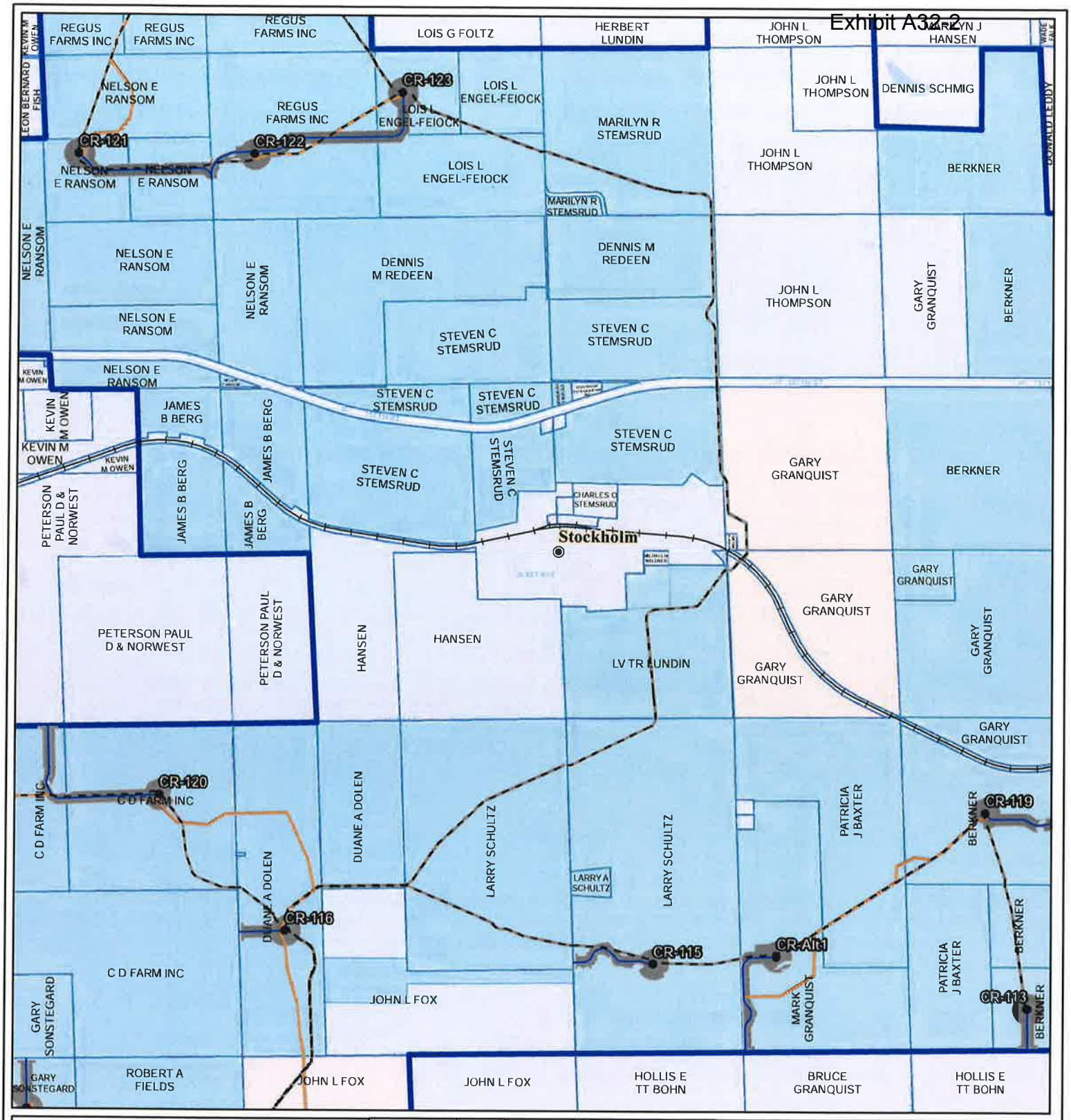

Figure 3a. Project Map

Crowned Ridge Wind Farm

- Turbine
- MET Tower
- City
- Access Road
- Collector Line
- Crane Path
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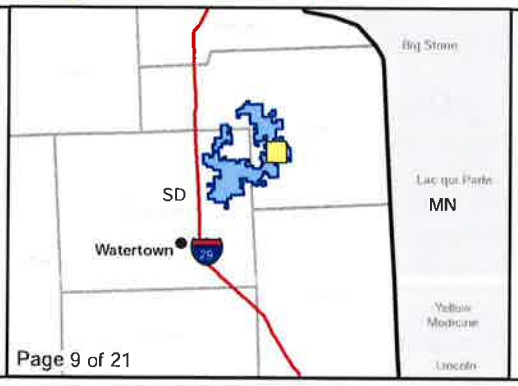

Kilometers: 0 – 0.5 – 1

Miles: 0 – 0.25 – 0.5

Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community

Quadrangle: Stockholm (1973)

Township/Range: T119N, R50W

Grant County, South Dakota

Projection: NAD 1983 UTM Zone 14N

SWCA ENVIRONMENTAL CONSULTANTS

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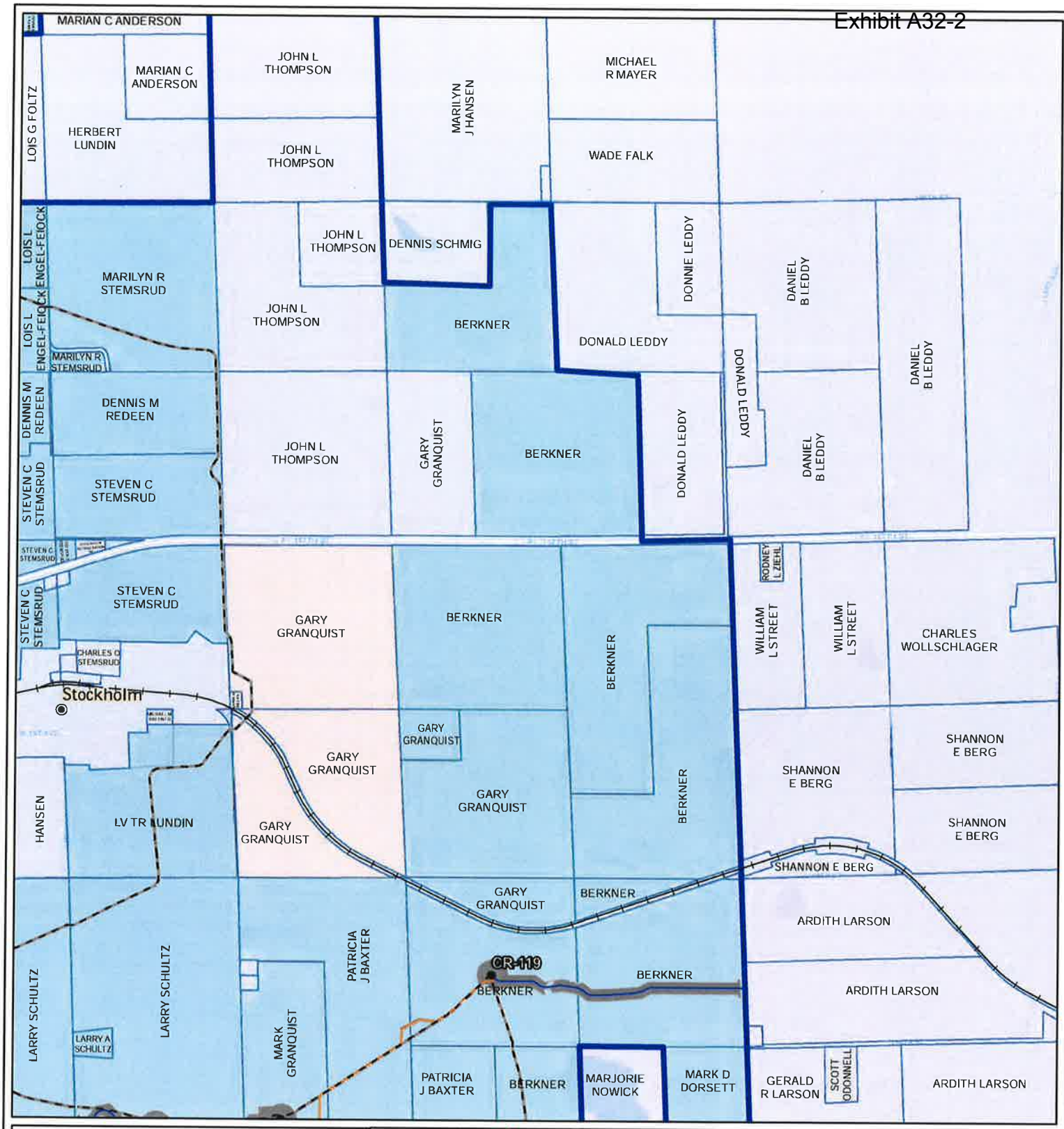

Figure 3a. Project Map

Crowned Ridge Wind Farm

- Turbine
- MET Tower
- City
- Access Road
- Collector Line
- Crane Path
- Railroad
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- Batch Plant
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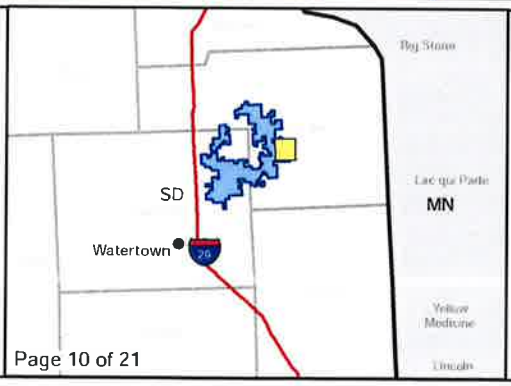

Kilometers: 0 — 0.5 — 1

Miles: 0 — 0.25 — 0.5

Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community

Quadrangle: Twin Brooks (1973), Stockholm (1973)

Township/Range: T119N, R50W, T119N, R49W

Grant County, South Dakota

Projection: NAD 1983 UTM Zone 14N

SWCA ENVIRONMENTAL CONSULTANTS

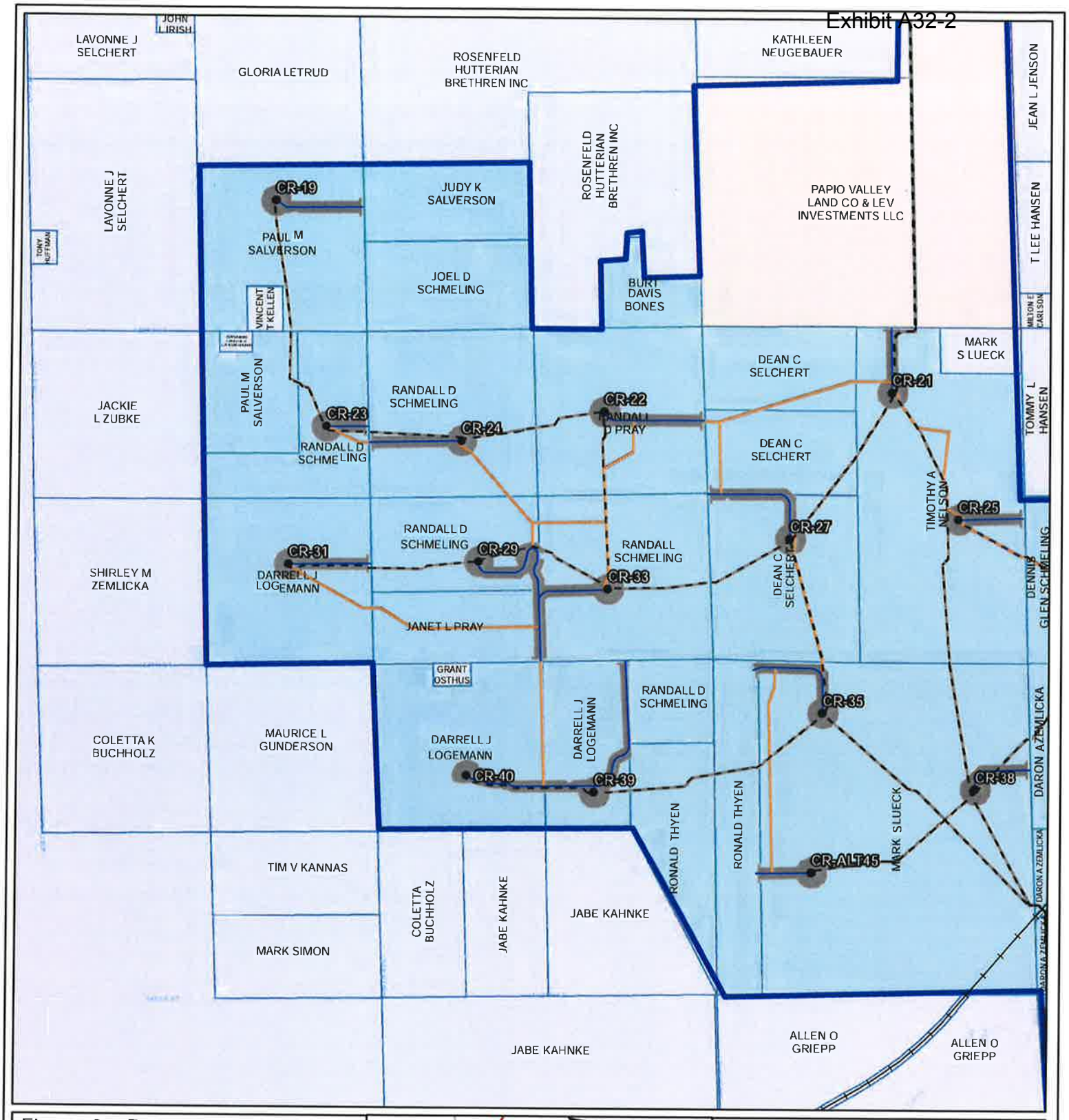

Figure 3a. Project Map

Crowned Ridge Wind Farm

- Turbine
- MET Tower
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- Access Road
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Kilometers: 0 – 0.5 – 1

Miles: 0 – 0.25 – 0.5

Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community

Quadrangle: Still Lake SE (1970), South Shore (1973)

Township/Range: T119N, R52W, T119N, R51W, T118N, R52W, T118N, R51W

Codington County, South Dakota

Projection: NAD 1983 UTM Zone 14N

SWCA ENVIRONMENTAL CONSULTANTS

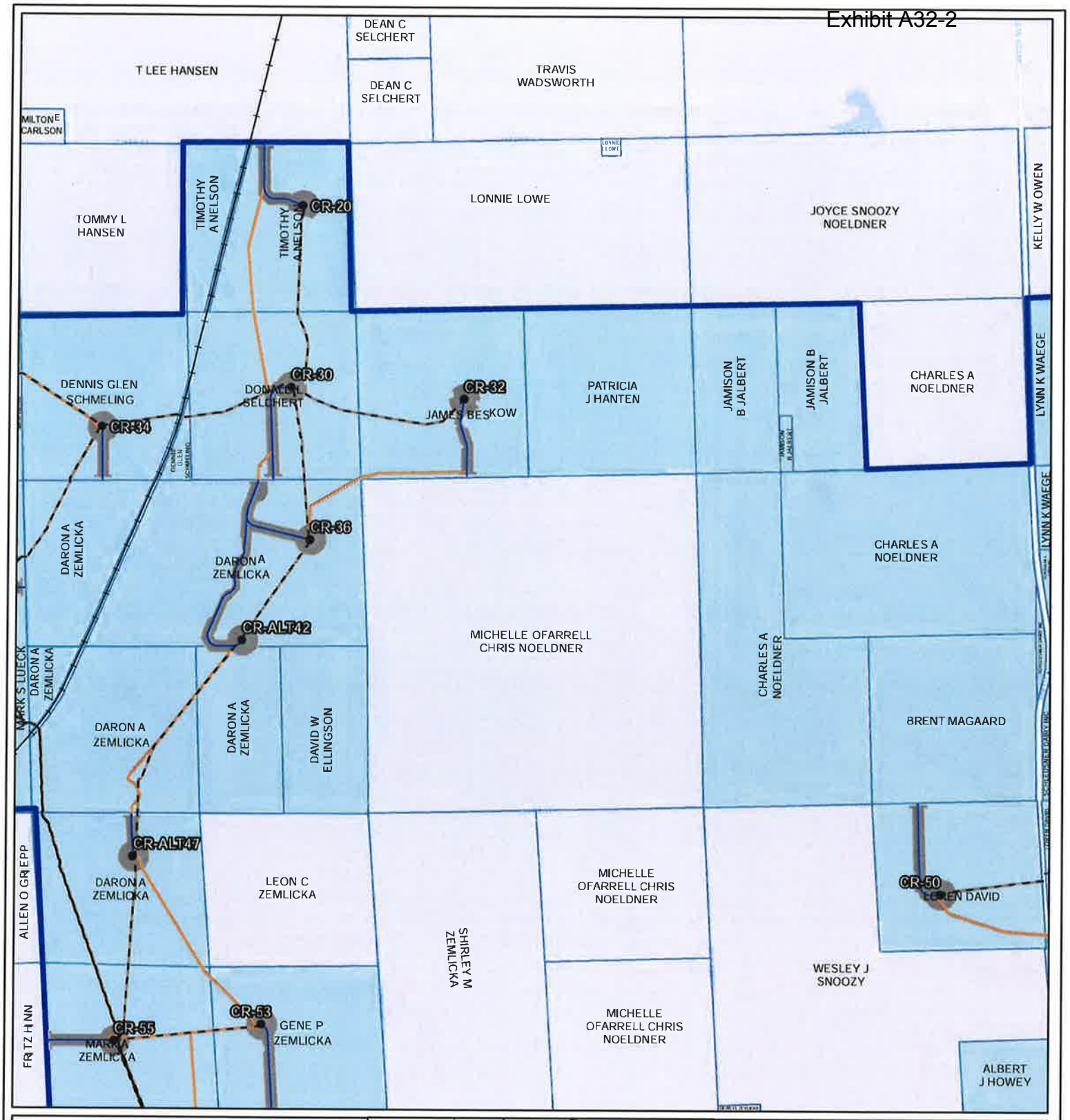

Figure 3a. Project Map

Crowned Ridge Wind Farm

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Kilometers: 0 0.5 1

Miles: 0 0.25 0.5

Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community

Quadrangle: South Shore (1973)

Township/Range: T119N, R51W, T118N, R51W

Codington County, South Dakota

Projection: NAD 1983 UTM Zone 14N

SWCA ENVIRONMENTAL CONSULTANTS

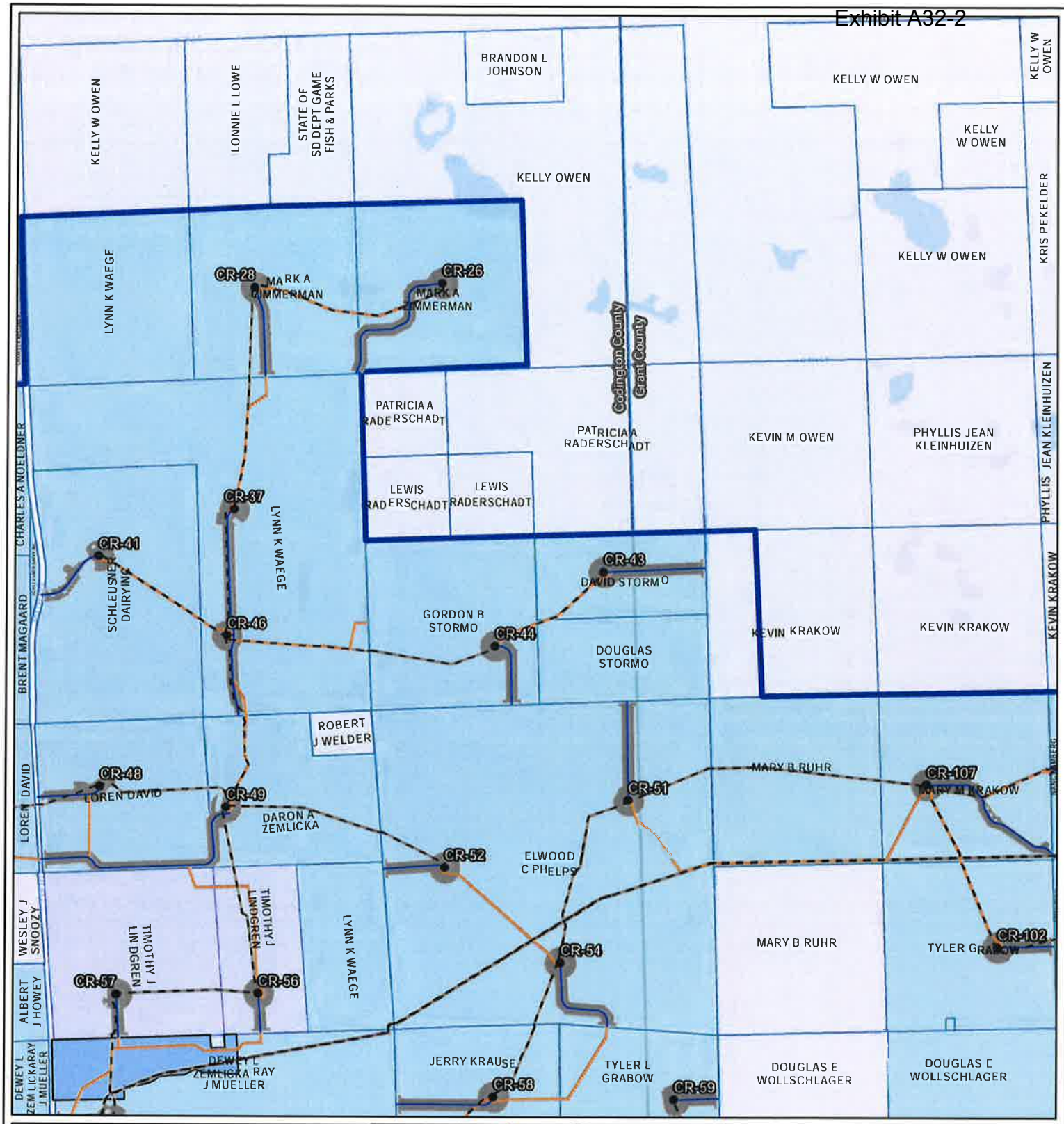

Figure 3a. Project Map

Crowned Ridge Wind Farm

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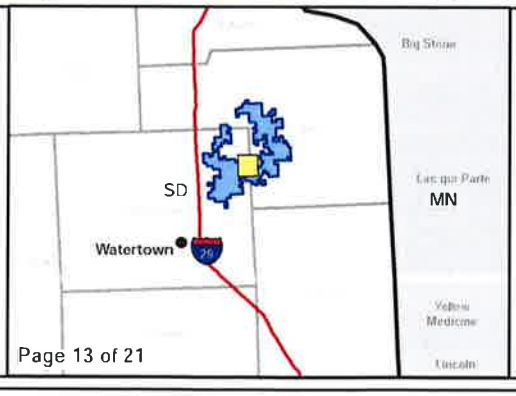

Kilometers: 0 – 0.5 – 1

Miles: 0 – 0.25 – 0.5

Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community

Quadrangle: South Shore (1973), Stockholm (1973)

Township/Range: T119N, R51W, T119N, R50W, T118N, R51W, T118N, R50W

Codington and Grant Counties, South Dakota

Projection: NAD 1983 UTM Zone 14N

SWCA ENVIRONMENTAL CONSULTANTS

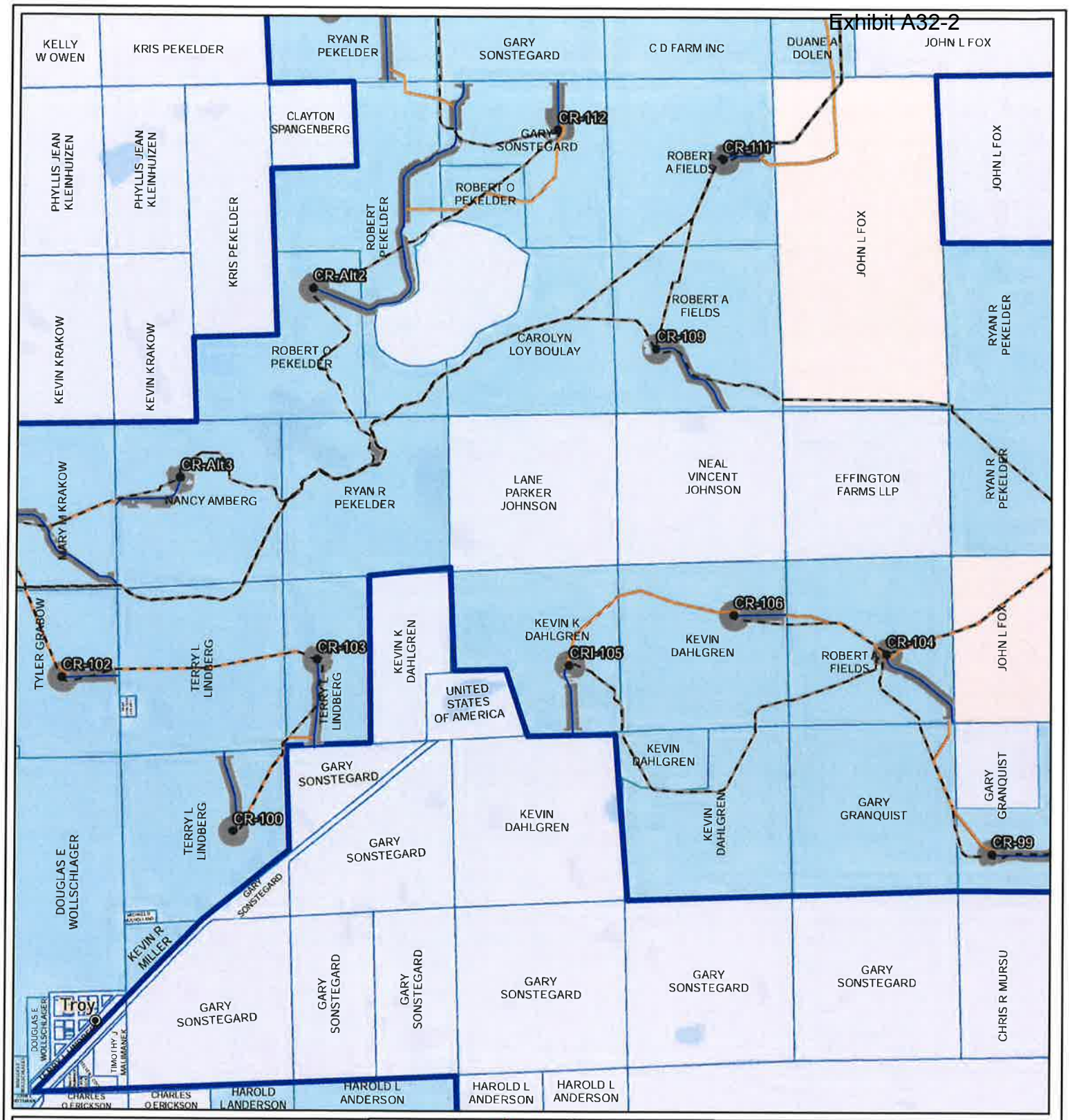

Figure 3a. Project Map

Crowned Ridge Wind Farm

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Kilometers: 0 — 0.5 — 1

Miles: 0 — 0.25 — 0.5

Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community

Quadrangle: Stockholm (1973)

Township/Range: T119N, R50W, T118N, R50W

Grant County, South Dakota

Projection: NAD 1983 UTM Zone 14N

SWCA ENVIRONMENTAL CONSULTANTS

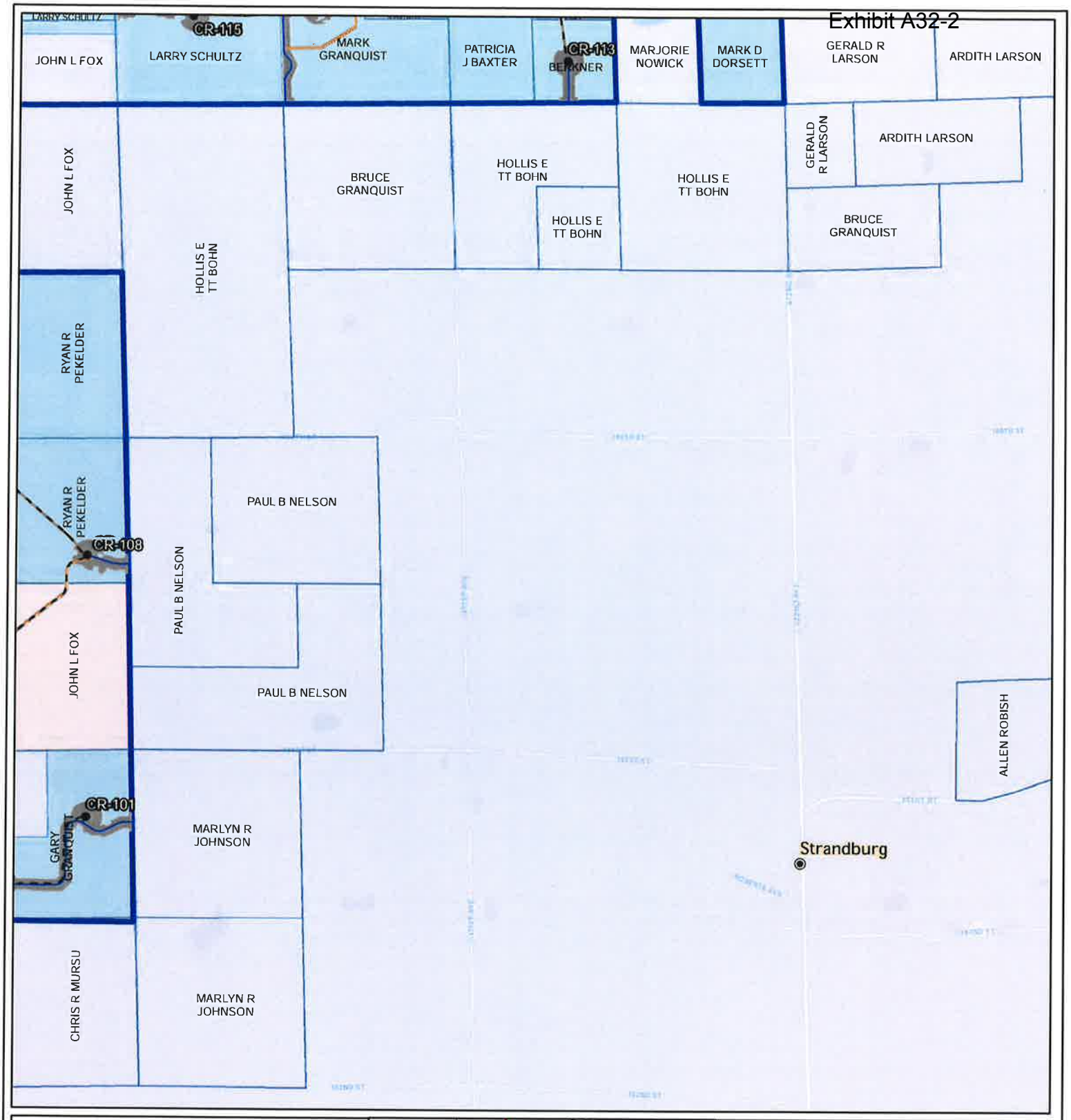

Figure 3a. Project Map

Crowned Ridge Wind Farm

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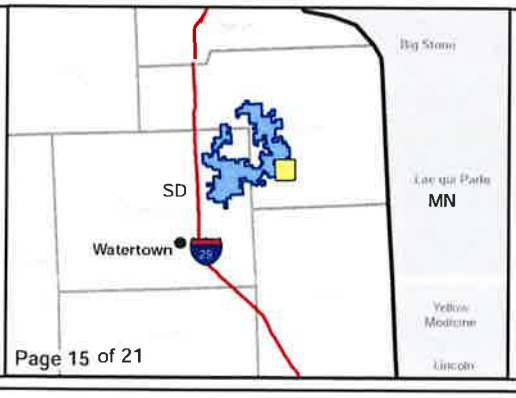

Kilometers
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Miles
0 0.25 0.5

Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community
Quadrangle: Stockholm (1973)

Township/Range: T119N, R50W, T118N, R50W
Grant County, South Dakota

Projection: NAD 1983 UTM Zone 14N

SWCA ENVIRONMENTAL CONSULTANTS

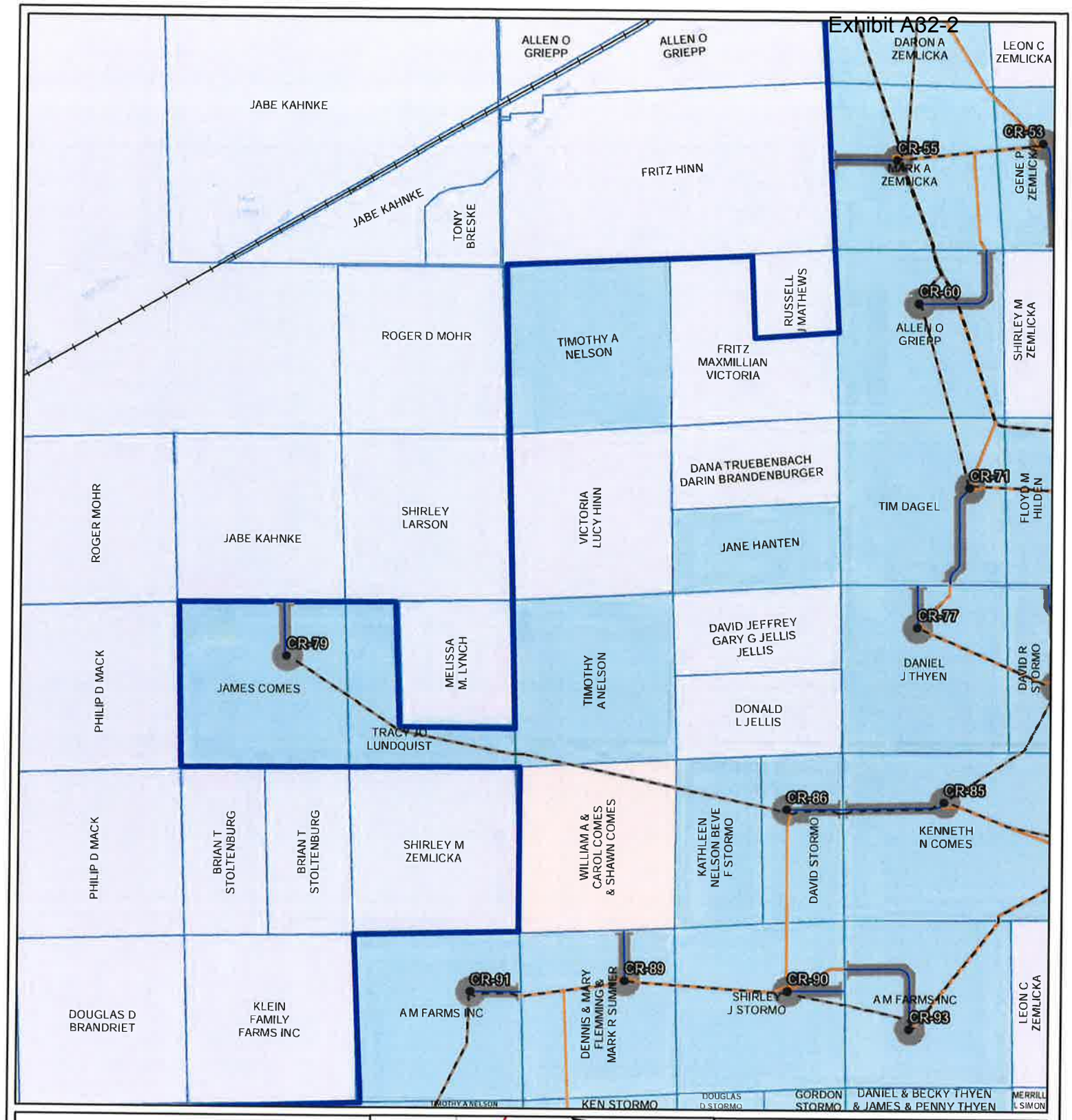


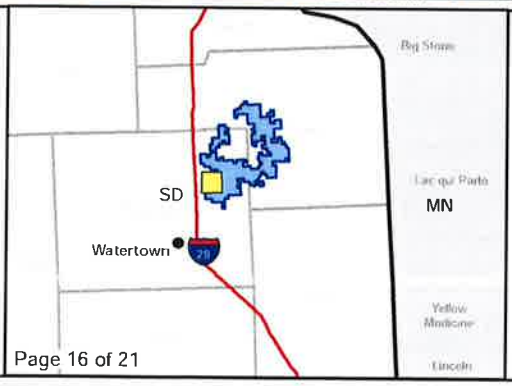
Figure 3a. Project Map

Crowned Ridge Wind Farm

- Turbine
- MET Tower
- City
- Access Road
- Collector Line
- Crane Path
- Railroad
- O&M Facility/ Substation
- Batch Plant
- Laydown Yard
- Construction Easement
- Parcel Boundary
- Project Boundary
- County Boundary

Lease Status

- Leased, Signed
- Pending
- Under Option but Likely to Expire/Not Resign



Kilometers
0 0.5 1

Miles
0 0.25 0.5

Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community
Quadrangle: Still Lake SE (1970), South Shore (1973)
Township/Range: T118N, R52W, T118N, R51W
Codington County, South Dakota

Projection: NAD 1983 UTM Zone 14N

SWCA ENVIRONMENTAL CONSULTANTS

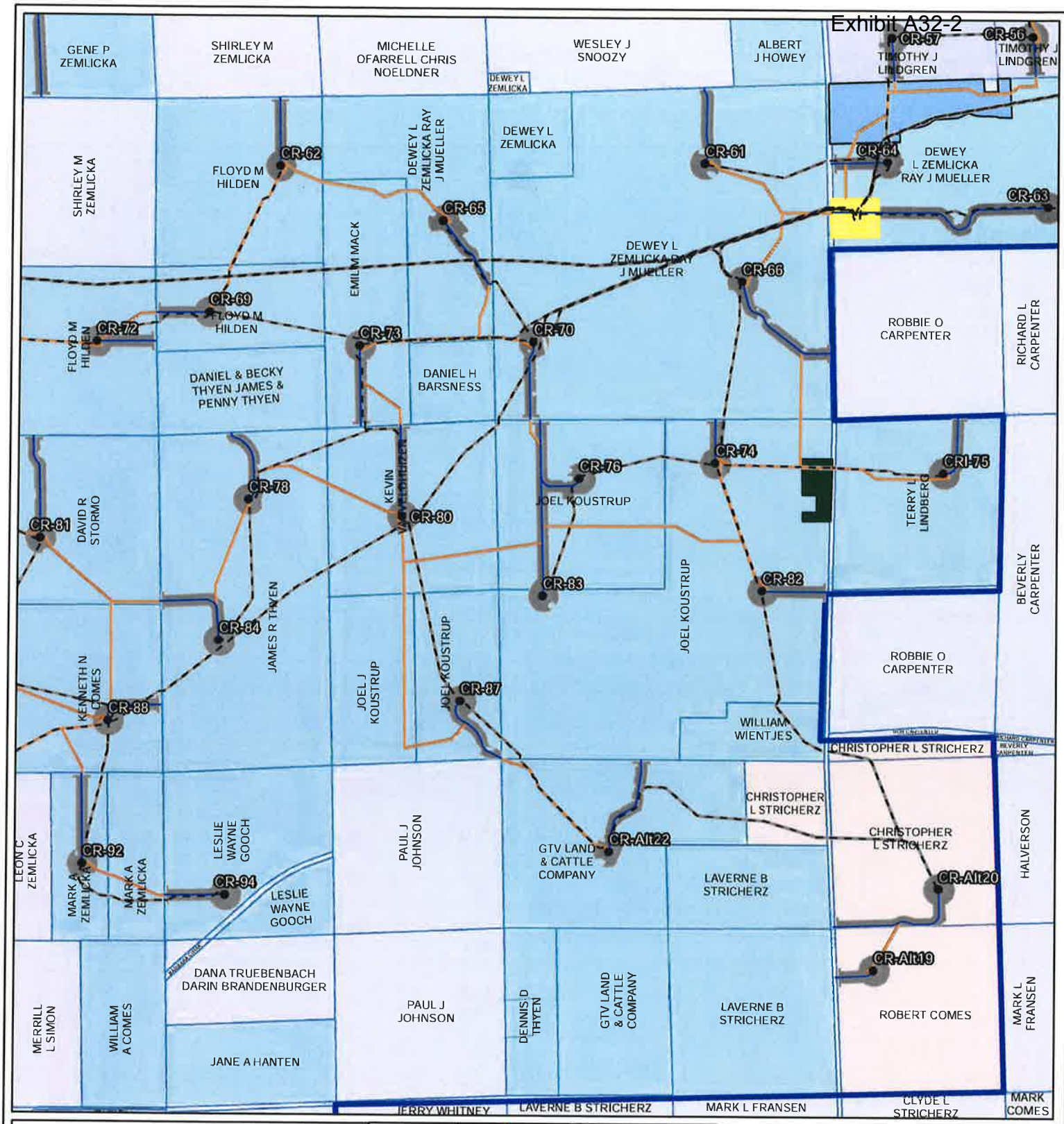


Figure 3a. Project Map

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- County Boundary

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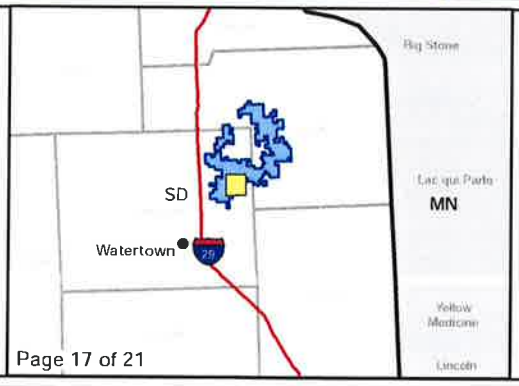


Kilometers: 0 0.5 1

Miles: 0 0.25 0.5

Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community

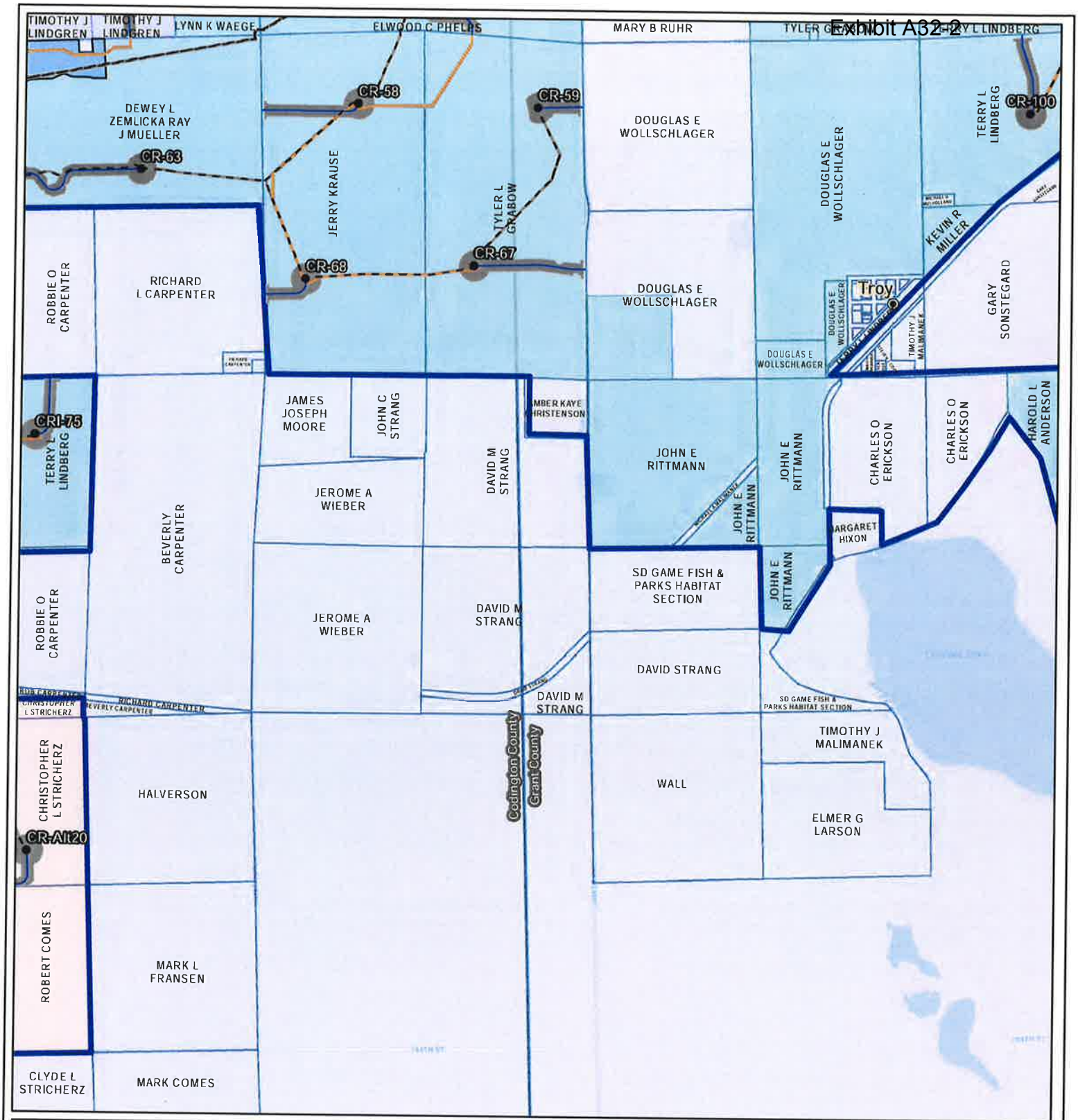
Quadrangle: South Shore (1973)

Township/Range: T118N, R51W

Codington County, South Dakota

Projection: NAD 1983 UTM Zone 14N

SWCA ENVIRONMENTAL CONSULTANTS



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- County Boundary

Lease Status

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- Under Option but Likely to Expire/Not Resign

Kilometers: 0 – 0.5 – 1

Miles: 0 – 0.25 – 0.5

Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community

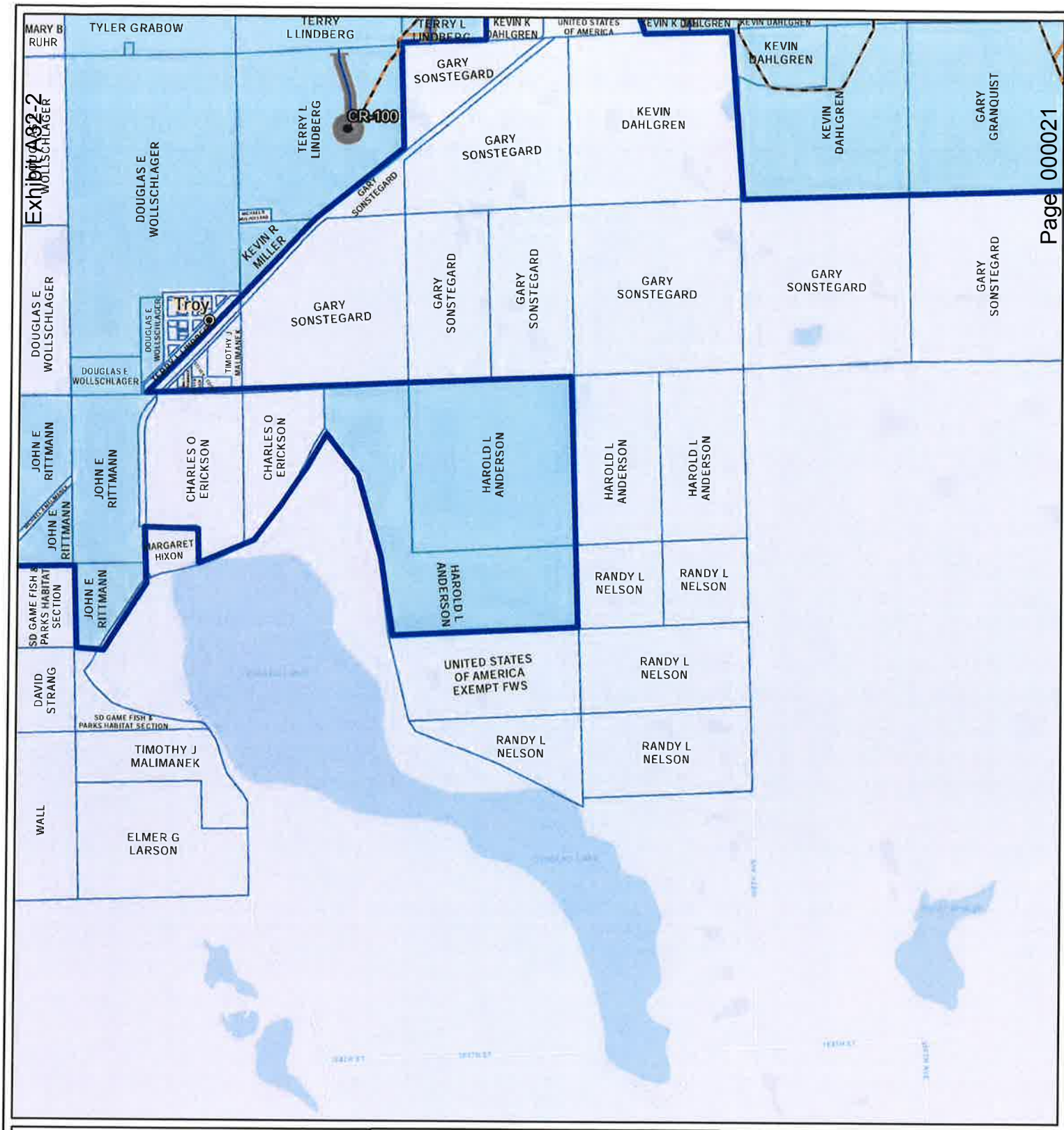
Quadrangle: South Shore (1973), Stockholm (1973)

Township/Range: T118N, R51W, T118N, R50W

Codington and Grant Counties, South Dakota

Projection: NAD 1983 UTM Zone 14N

SWCA ENVIRONMENTAL CONSULTANTS



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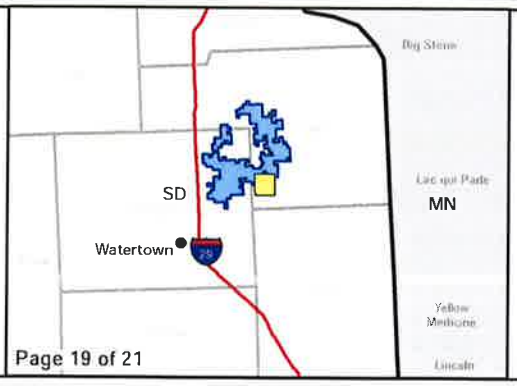

Page 19 of 21

Kilometers
0 0.5 1

Miles
0 0.25 0.5

Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community
Quadrangle: South Shore (1973), Stockholm (1973)
Township/Range: T118N, R50W

Grant County, South Dakota

Projection: NAD 1983 UTM Zone 14N

SWCA ENVIRONMENTAL CONSULTANTS

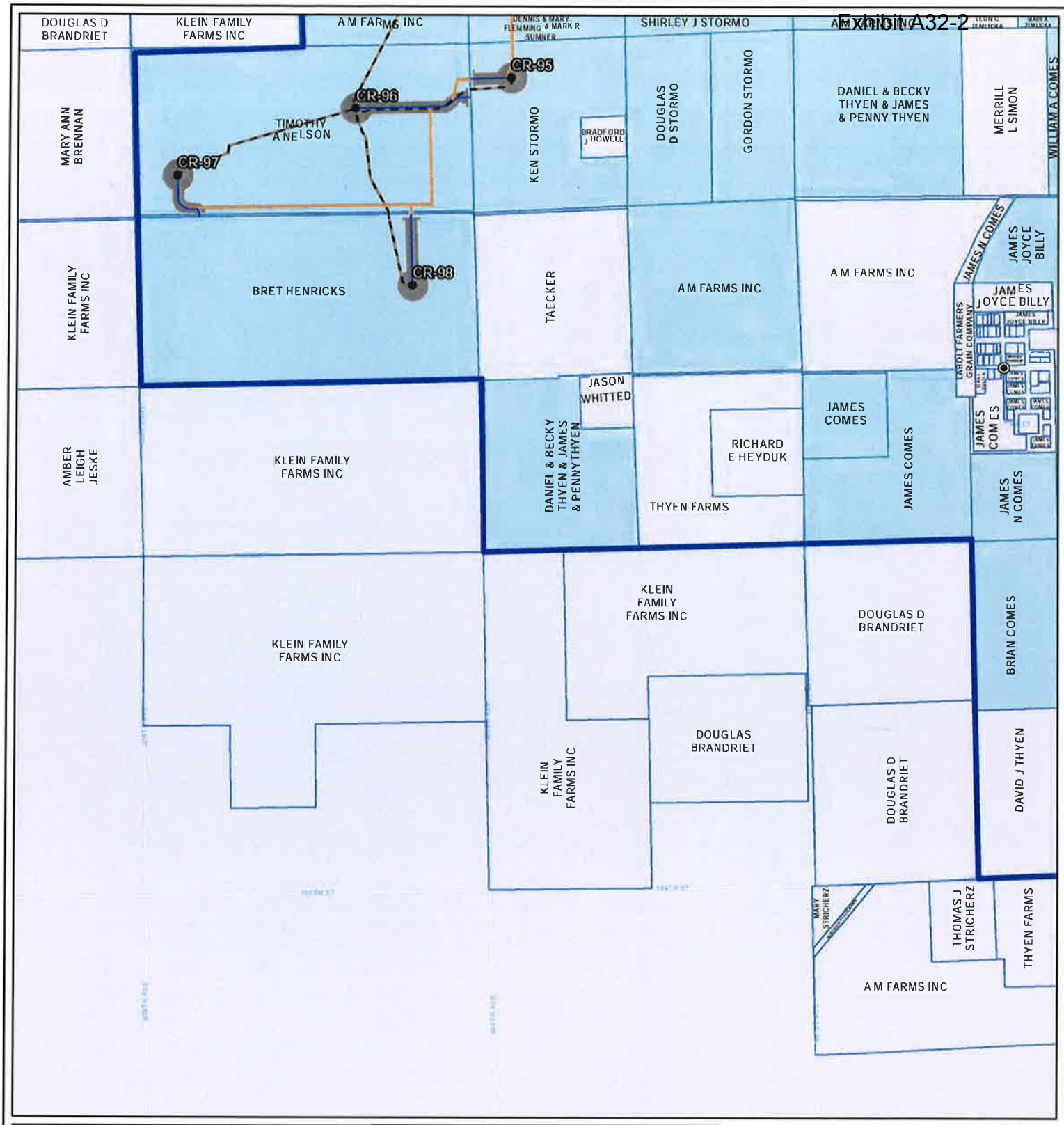

Figure 3a. Project Map

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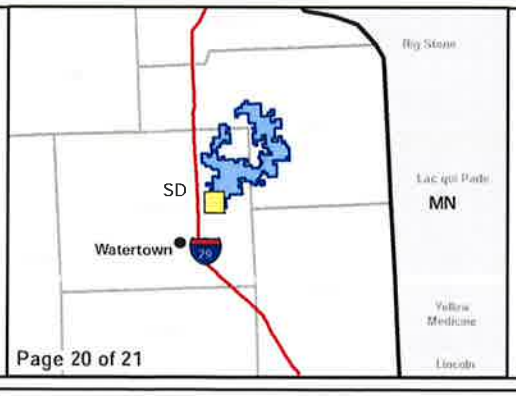


Kilometers: 0 — 0.5 — 1

Miles: 0 — 0.25 — 0.5

Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community

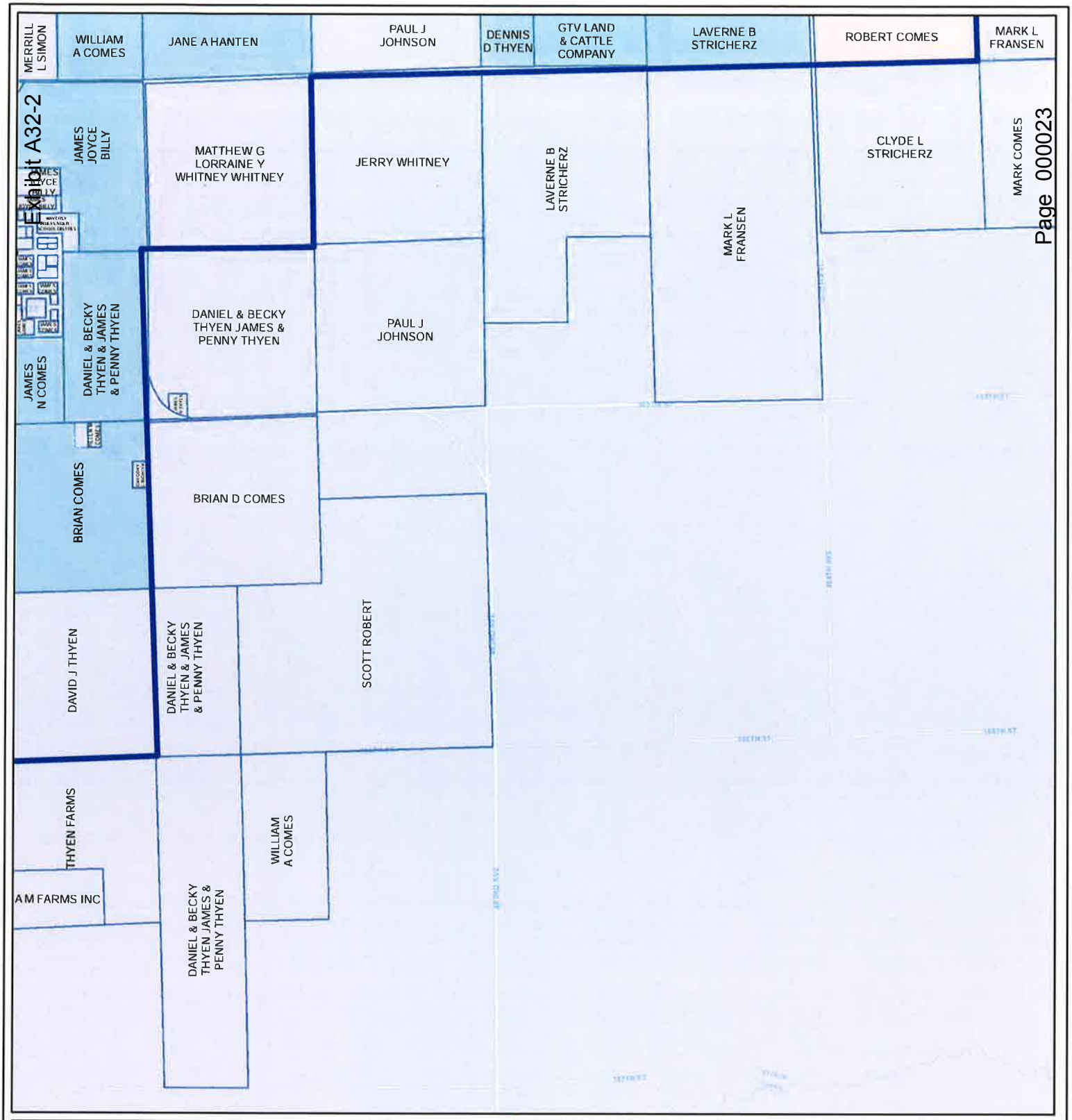
Quadrangle: Still Lake SE (1970), Watertown East (1969), South Shore (1973), Kranzburg (1970)

Township/Range: T118N, R52W, T118N, R51W, T117N, R52W, T117N, R51W

Codington County, South Dakota

Projection: NAD 1983 UTM Zone 14N

SWCA ENVIRONMENTAL CONSULTANTS



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- Parcel Boundary
- Project Boundary
- County Boundary

Lease Status

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- Pending
- Under Option but Likely to Expire/Not Resign

Kilometers: 0 – 0.5 – 1

Miles: 0 – 0.25 – 0.5

Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community

Quadrangle: South Shore (1973), Kranzburg (1970)

Township/Range: T118N, R51W, T117N, R51W

Codington County, South Dakota

Projection: NAD 1983 UTM Zone 14N

SWCA ENVIRONMENTAL CONSULTANTS

BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE STATE OF SOUTH DAKOTA

IN THE MATTER OF THE APPLICATION BY CROWNED RIDGE WIND, LLC FOR A PERMIT OF A WIND ENERGY FACILITY IN GRANT AND CODINGTON COUNTIES	)	EL19-003
	)	**APPLICANT'S RESPONSES TO INTERVENOR'S THIRD SET OF DATA REQUESTS TO CROWNED RIDGE WIND, LLC**

Attached, please find Applicant's Responses to Intervenor's Third Set of Data Requests to Crowned Ridge Wind, LLC.

Dated this 23rd day of May, 2019.

Miles F. Schumacher
Attorneys for Applicant
Lynn, Jackson, Shultz & Lebrun, PC
110 N. Minnesota Ave., Suite 400
Sioux Falls, SD 57104

3-1) Regarding any affiliated companies or corporations (in this discovery also described as "company" or companies") of the Applicant identified in the Application an any amendment to the Application, as identified in testimony or provided in disclosure and discovery, please describe any affiliated company's legal relationship with the Applicant.

Response:

Please see the Amendment to the Application Section 3.0 filed on May 15, 2019. The legal relationship between the companies described in the Amendment to Crowned Ridge Wind, LLC is that of an affiliate.

Also, as originally set forth in the Application in Section 3.0, Crowned Ridge Wind, LLC is a wholly-owned indirect subsidiary of NextEra Energy Resources, LLC.

Respondent: Sam Massey, Director of Renewable Development

3-2) Describe any affiliated company's business relationship with the Applicant regarding the Project (by way of examples only: a relationship under a service agreement, as a vendor, as a service provider, as a contractor, as a consultant, as a participant in a joint operating agreement).

Response:

Yes, Crowned Ridge Wind, LLC will enter into an operation and maintenance agreement with NextEra Energy Operating Services, LLC and an administrative services agreement with NextEra Energy Resources, LLC.

Respondent: Sam Massey, Director of Renewable Development

3-3) Having any entities, parties or persons, whether or not participants, waived or agreed to a modification of any of the facility siting requirements identified in the statutes and rules described on Table 1.2 of the Application under agreement or agreements held by the Applicant or any of its affiliates? If so, provide documentation, including any agreements.

Response:

Please see the following provision in the easement agreements: Crowned Ridge Wind, LLC (Section 11.4.), which is Confidential Attachment 1 to Crowned Ridge Wind's response to Staff 1-7. The Boulevard Associates, LLC easement agreements contain the same provision. In the Cattle Ridge Wind Farm, LLC (Section 5.4), which is Confidential Attachment 2 to Crowned Ridge Wind's response to Staff 1-7.

Respondent: Tyler Wilhelm, Project Manager

3-4) Have any entities, parties or persons, whether or not participants, waived or agreed to a modification of any local rules or ordinances which relate to this facility siting application under an agreement with the Applicant or with an affiliate of the Applicant?

If so provide documentation, including any agreements.

Response:

Please see response to 3-3.

Respondent: Tyler Wilhelm, Project Manager

3-5) Have any entities, parties or persons, whether or not participants, with whom the Applicant has entered into, itself or by way of an affiliate, an option, lease or easement agreement by giving the option of withdrawal from any such agreement? If so, provide documentation, including any agreements.

Response: No.

Respondent: Tyler Wilhelm, Project Manager

3-6) Have any entities, parties or persons, whether or not participants, with whom the Applicant has entered into, itself or by way of an affiliate, an option, lease or easement agreement, waived any audio, visual, view, light, shadow flicker, vibration, air turbulence, wake, electromagnetic, ice, or other weather created hazards or events resulting directly or indirectly regarding the operation of Applicants proposed Project under safety, regulatory or environmental standards as those are described in the Application. If so, provide documentation, including any agreements.

Response:

Please see the following provision in the easement agreements: Crowned Ridge Wind, LLC (Section 5.2), which is Confidential Attachment 1 to Crowned Ridge Wind's response to Staff 1-7. The Boulevard Associates, LLC easement agreements contain the same provision.

Respondent: Tyler Wilhelm, Project Manager

3-7) Have any entities, parties or persons, whether or not participants, with whom the Applicant has entered into, itself or by way of an affiliate, an option, lease or easement agreement, waived any audio, visual, view, light, shadow flicker, vibration, air turbulence, wake, electromagnetic, ice, or other weather created hazards or events resulting directly or indirectly regarding the operation of Applicants proposed Project as those standards are designated by federal, state or local law related to the siting of a wind energy facility? If so, provide documentation, including any agreements.

Response:

Please see response to 3-6.

Respondent: Tyler Wilhelm, Project Manager

3-8) Have any entities, parties or persons, whether or not participants, with whom the Applicant has entered into, itself or by way of an affiliate, an option, lease or easement agreement, waived any audio, visual, view, light, shadow flicker, vibration, air turbulence, wake, electromagnetic, ice, or other weather created hazards or events resulting directly or indirectly from the operation of Applicants propose project? If so, provide documentation, including any agreements.

Response:

Please see response to 3-6.

Respondent: Tyler Wilhelm, Project Manager

BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE STATE OF SOUTH DAKOTA

IN THE MATTER OF THE APPLICATION BY CROWNED RIDGE WIND, LLC FOR A PERMIT OF A WIND ENERGY FACILITY IN GRANT AND CODINGTON COUNTIES	)	EL19-003
	)	**APPLICANT'S RESPONSES TO INTERVENOR'S SECOND SET OF DATA REQUESTS TO CROWNED RIDGE WIND, LLC**

Attached, please find Applicant's Responses to Intervenor's Second Set of Data Requests to Crowned Ridge Wind, LLC.

Dated this 23rd day of May, 2019.

Miles F. Schumacher
Attorneys for Applicant
Lynn, Jackson, Shultz & Lebrun, PC
110 N. Minnesota Ave., Suite 400
Sioux Falls, SD 57104

2-1) Is there is a currently enforceable, in place, agreement regarding any of the following described categories for the tan-colored parcel (identified as "pending approval" on the legend) found in Applicant's Figure 3a in favor of the Applicant whether held in the name of Applicant or an affiliate of the Applicant which relates to the subject Project?: a Collection Easement; Access Easement; Construction Easement; Wind Farm Easement Agreement; or Right of Entry Agreement. Provide meanings of the acronyms used in the application.

Response:

There is no enforceable agreement in place on the tan-colored parcel (identified as "pending approval" on the legend). A collection easement agreement has been drafted and is under consideration by the landowner at this time.

Respondent: Tyler Wilhelm, Project Manager

2-2) Are all property rights necessary for the Project obtained?

Response:

At this time, the Applicant has not obtained all necessary property rights for the Project.

Respondent: Tyler Wilhelm, Project Manager

2-3) If all property rights necessary for the Project are not obtained, please describe and identify what property rights need to be obtained.

Response:

Crowned Ridge Wind will need to obtain the following additional property rights:

- (2) easement option agreements to support underground collection and temporary construction access;
- (3) easement option agreements to support underground collection; and
- (2) easement option agreements to support alternate turbine locations and associated facilities (underground collection, turbine access road and temporary construction access etc.)

Respondent: Tyler Wilhelm, Project Manager
Sioux Falls, SD 57104

LAW OFFICES
Lynn, Jackson, Shultz & Lebrun, P.C.
LAWYERS ALSO ADMITTED IN MINNESOTA, IOWA, NORTH DAKOTA, AND WYOMING
www.lynnjackson.com

110 N. MINNESOTA AVENUE
SUITE 400
SIOUX FALLS, SD 57104
605-332-5999
FAX 605-332-4249

135 E. COLORADO BOULEVARD
SPEARFISH, SD 57783-2755
605-722-9000
FAX 605-722-9001

909 ST. JOSEPH STREET
SUITE 800
RAPID CITY, SD 57701
605-342-2592
FAX 605-342-5185

REPLY TO: Sioux Falls 605-332-5999

From the office of Miles F. Schumacher
e-mail address: mschumacher@lynnjackson.com

May 23, 2019

Via Electronic Filing

Ms. Patricia Van Gerpen, Executive Director
South Dakota Public Utilities Commission
Capitol Building, 1st Floor
500 East Capitol Avenue
Pierre, SD 57501-5070

Re: Docket #EL19-003
In the Matter of the Application by Crowned Ridge Wind, LLC for an Energy Facility Permit of a Wind Energy Facility in Grant and Codington Counties, South Dakota for Crowned Ridge Wind Farm

Dear Ms. Van Gerpen:

In connection with the above captioned matter, Crowned Ridge Wind, LLC (Crowned Ridge Wind) is submitting updated maps. The maps show removal of the Thompsons as participants, recognize that the one current participant will not likely renew when their option agreement expires, and make minor adjustments to infrastructure that move the collector line off of the Thompson's properties and also for participant land owner preferences. This minor adjustment can be seen at (1) the proposed shifts to access roads for turbines CR-122 through CR-126 at the requests of landowners; (2) minor revisions to collection routing were made on properties, which include collection routing identified at met towner SM01, turbine CR-105, between turbines CR-112 and CR-114, CR-115, CR-116, CR-163, CR-ALT7 and between CR-ALT20 and CR-ALT22.

Yours very truly,

LYNN, JACKSON, SHULTZ & LEBRUN, P.C.

Miles F. Schumacher
MFS:alf

Exhibit A35-1

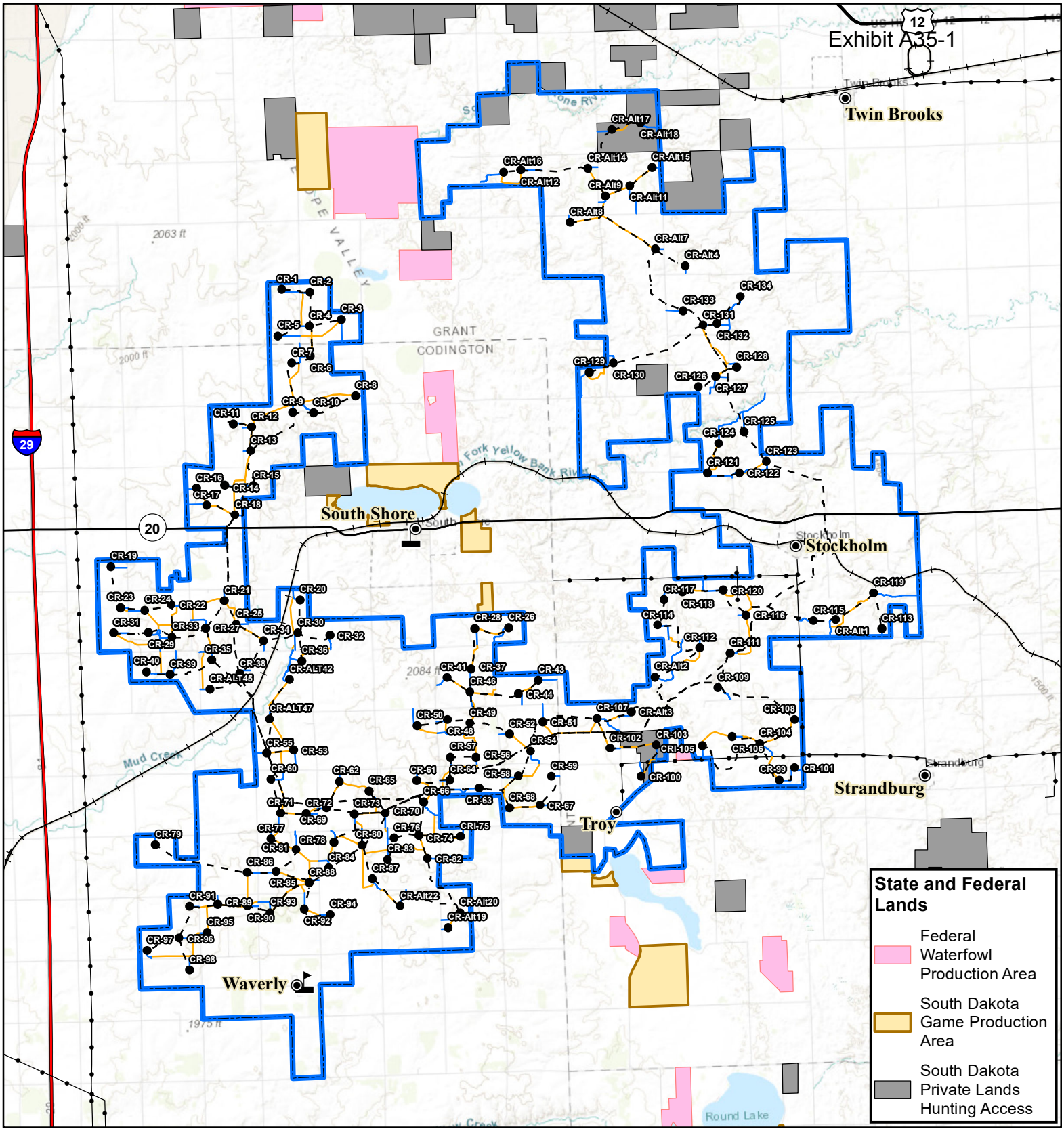


Figure 2. Public Land and Facilities

Crowned Ridge Wind Farm

City
School
Turbine
Collector Line
Access Road
Crane Path
Electrical Line
Railroad
Interstate Highway
U.S. Highway
State Highway
Project Boundary

Kilometers: 0 5 10

Miles: 0 2.5 5

Base Map: World Topographic Map
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community
Codington and Grant Counties, South Dakota

Projection: NAD 1983 UTM Zone 14N

010145

SWCA ENVIRONMENTAL CONSULTANTS

Exhibit A35-2

Twin Brooks

South Shore

Stockholm

Strandburg

Troy

Waverly

Round Lake

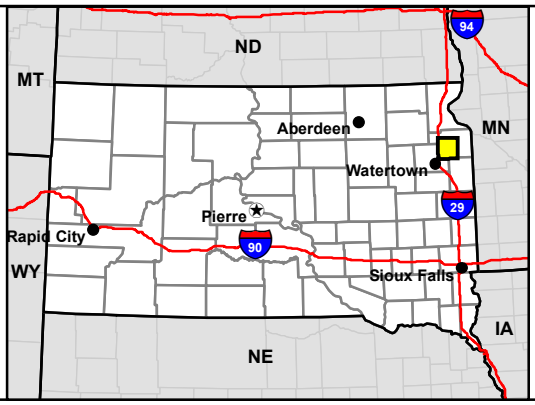
Figure 3. Project Map

Crowned Ridge Wind Farm

- MET Tower
- Turbine
- City
- Access Road
- Collector Line
- Crane Path
- Railroad
- Interstate Highway
- U.S. Highway
- State Highway
- O&M Facility/ Substation
- Town Boundary
- Project Boundary

Lease Status

- Leased, Signed
- Pending Approval



Kilometers

0 2.5 5

Miles

0 2.5 5

Base Map: World Light Gray Canvas Base
Sources: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community
Codington and Grant Counties, South Dakota

SWCA ENVIRONMENTAL CONSULTANTS

Projection: NAD 1983 UTM Zone 14N

Exhibit A35-3

Figure 3a. Project Map

Crowned Ridge Wind Farm

- MET Tower
- Turbine
- City
- Access Road
- Collector Line
- Crane Path
- Railroad
- Interstate Highway
- U.S. Highway
- State Highway
- O&M Facility/ Substation
- Town Boundary
- Project Boundary
- Parcel Boundary

Lease Status

- Leased, Signed
- Pending Approval
- Under Option but Likely to Expire/Not Resign

Kilometers 0 2.5 5

Miles 0 2.5 5

Base Map: World Light Gray Canvas Base Sources: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community Codington and Grant Counties, South Dakota

Projection: NAD 1983 UTM Zone 14N

SWCA ENVIRONMENTAL CONSULTANTS

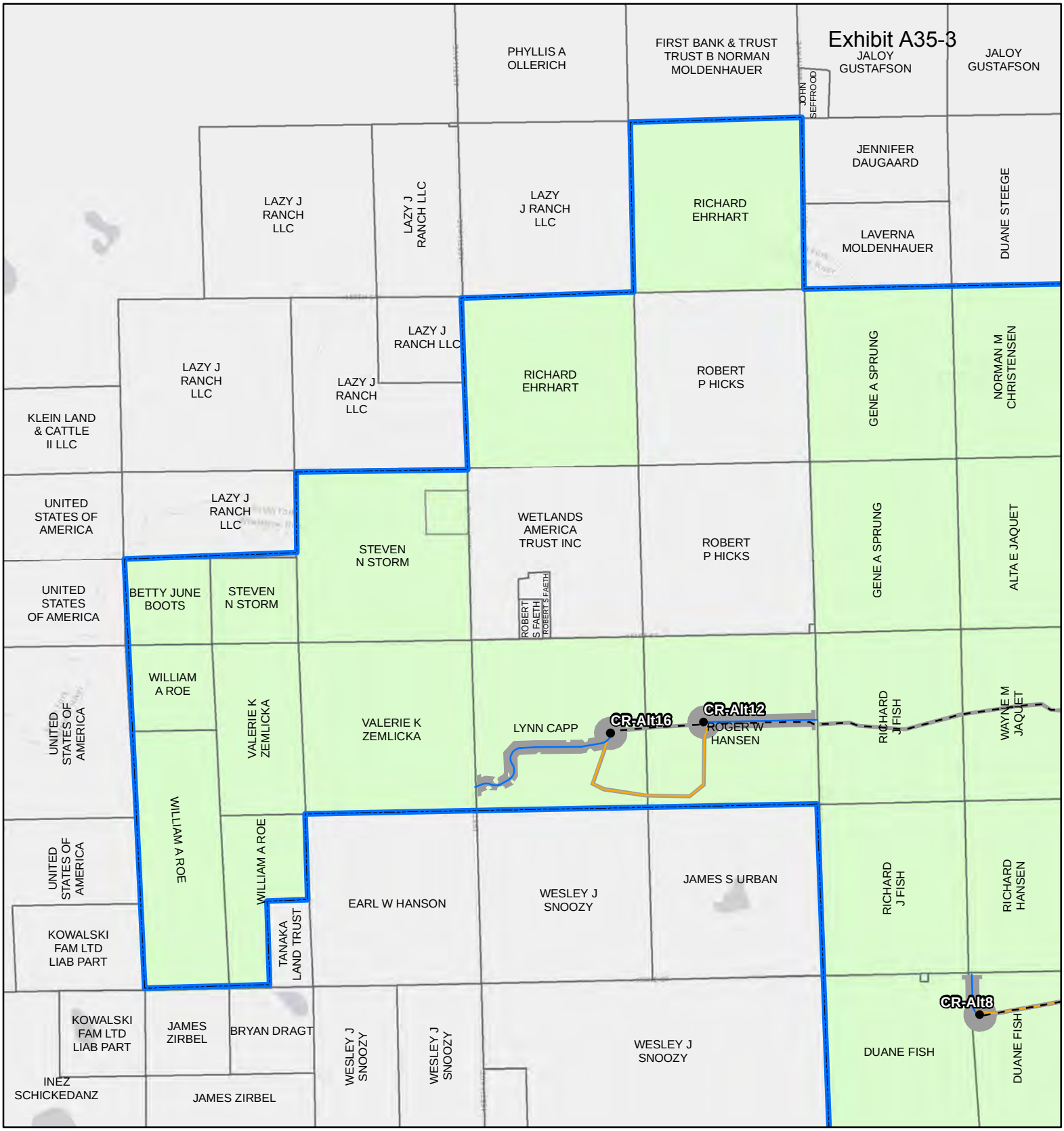


Figure 3a. Project Map

Crowned Ridge Wind Farm

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- County Boundary

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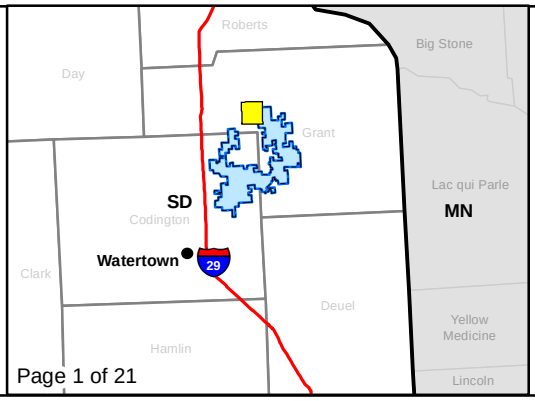

Page 1 of 21

Kilometers
0 0.5 1

Miles
0 0.25 0.5

Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community
Quadrangle: Antelope Valley (1973), Twin Brooks (1973)
Township/Range: T120N, R51W, T120N, R50W
Grant County, South Dakota

010148

SWCA ENVIRONMENTAL CONSULTANTS

Projection: NAD 1983 UTM Zone 14N

Exhibit A35-3

JALOY GUSTAFSON
JEFF SCHMIDT
DUANE STEEGE
FIRST BANK & TRUST TRUST B NORMAN MOLDENHAUER
MICHAEL MCKERNAN
JANICE J FREDRICKSON
LOREN J HOLSCHER
South Fork Whetstone River
150TH ST
NORMAN M CHRISTENSEN
DONALD HAACKE
GREAT WESTERN BANK
RICHARD EHRHART
FIRST BANK & TRUST TRUST B NORMAN MOLDENHAUER
LAVERNA MOLDENHAUER
DARREL A SMITH
CR-Alt18
CR-Alt17
ALTA E JAQUET
RICHARD EHRHART
RICHARD EHRHART
DARREL A SMITH
DARREL A SMITH
FIRST BANK & TRUST TRUST B NORMAN MOLDENHAUER
LAVERNA MOLDENHAUER
WAYNE M JAQUET
CR-Alt14
RICHARD HANSEN
RICHARD HANSEN
CR-Alt15
FIRST BANK & TRUST TRUST B NORMAN MOLDENHAUER
FIRST BANK & TRUST TRUST B NORMAN MOLDENHAUER
LAVERNA MOLDENHAUER
JERALD M PAULI
CR-Alt11
CR-Alt9
RICHARD HANSEN
RICHARD HANSEN
RICHARD HANSEN
RUBY ELLA TERESIA DAVIS
LAVERNA MOLDENHAUER
FIRST BANK & TRUST TRUST B NORMAN MOLDENHAUER
FALK FARMS INC
FALK FARMS INC
ROGER HANSEN
ERIC T HANSEN
JOHN T HICKS
DUANE FISH
DARRELL LOGEMANN
DARRELL LOGEMANN
YVONNE B PAULI
YVONNE B PAULI
YVONNE B PAULI
MERWIN G SEARCY
DUANE FISH
MERWIN G SEARCY
WANDA GRAMM
WANDA GRAMM
CR-Alt7
WANDA GRAMM
YVONNE B PAULI
YVONNE B PAULI
MERWIN G SEARCY

Figure 3a. Project Map

Crowned Ridge Wind Farm

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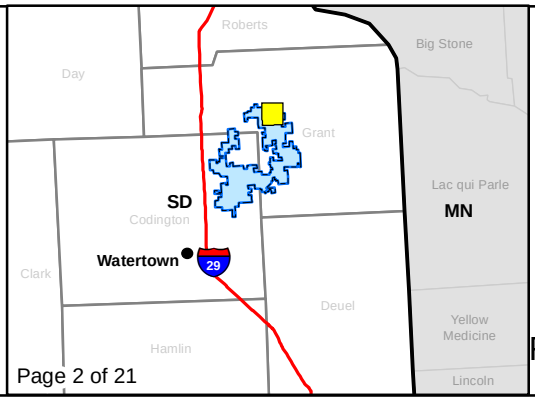

Page 2 of 21

Kilometers
0 0.5 1

Miles
0 0.25 0.5

Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community
Quadrangle: Twin Brooks (1973)

Township/Range: T120N, R50W

Grant County, South Dakota

Projection: NAD 1983 UTM Zone 14N

010149

SWCA ENVIRONMENTAL CONSULTANTS

Exhibit A35-3

FIRST BANK & TRUST TRUST B NORMAN MOLDENHAUER
LAVERNA MOLDENHAUER
LOREN JOHN HOLSCHER
LAVERNA MOLDENHAUER
JERALD M PAULI
CAROL J SCHAFFER-HALVERSON
KRISTI MOGEN
FALK FARMS INC
FALK FARMS INC
MERWIN SEARCY
JOHN T HICKS
KYLE P WEBER
WILLIAM TOSTENSON
DANIEL R DOCKTER
YVONNE B PAULI
MERWIN G SEARCY
LOREN J HOLSCHER
LAVERNA MOLDENHAUER
EARL C SELCHERT
CHRISTOPHER ZUBKE
YVONNE B PAULI
MERWIN G SEARCY
HANSEN ROGER LAND TRUST & STEPHANIE HANSEN
HANSEN ROGER LAND TRUST & STEPHANIE HANSEN
HANSEN ROGER LAND TRUST & STEPHANIE HANSEN
JOANN B MCMAHON
ALFRED SCHLEUSNER
HANSEN ROGER LAND TRUST & STEPHANIE HANSEN
CR-134
STEVEN N STORM
GENE A LEDDY
GENE A LEDDY
DONALD LEDDY
MARLEN T BUTTKE
WADE LEDDY
RONALD ALLEN MATTHIES
ADAM PAULI
DENNIS D SCHMIG
STEVEN N STORM
WADE LEDDY
GENE A LEDDY
GENE A LEDDY
GENE A LEDDY
DONALD LEDDY
GENE A LEDDY

Figure 3a. Project Map

Crowned Ridge Wind Farm

- Turbine
- MET Tower
- City
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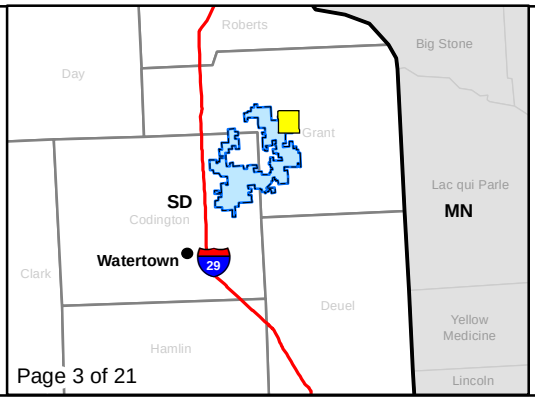
- Collector Line
- Crane Path
- Railroad
- O&M Facility/ Substation
- Batch Plant
- Laydown Yard
- Construction Easement
- Parcel Boundary
- Project Boundary
- County Boundary

Lease Status

- Leased, Signed
- Pending
- Under Option but Likely to Expire/Not Resign



Kilometers
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Miles
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Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community
Quadrangle: Twin Brooks (1973)

Township/Range: T120N, R50W

Grant County, South Dakota

Projection: NAD 1983 UTM Zone 14N

SWCA ENVIRONMENTAL CONSULTANTS

Exhibit A35-3

PHILIP J TAECKER
PHILIP J TAECKER
WILLOW RUN FARMS
WILLOW RUN FARMS
JAMES A TAECKER
MICHAEL HENRICHS
GTV LAND & CATTLE CO INC
WILLOW RUN FARMS
JOHN E ARTHUR
JAMES A TAECKER
RONALD SCHMELING
GTV LAND & CATTLE CO INC
JAMES G ZIRBEL
JOHN E ARTHUR
Grant County
Codington County
STEPHEN V KOWALSKI
NANCY C ADAIR
HENRY J RAUEN
DENNIS G SCHMELING
DOUGLAS D BRANDRIET
DANIEL J THYEN
MELVIN THOMPSON
ROSENFELD HUTTERIAN BRETHREN INC
EDWARD L LARSON
HENRY J RAUEN
MICHAEL D HENRICHS
MICHAEL D HENRICHS
KOWALSKI FAMILY LTD LIABILITY PARTNERSHIP
GRANT ROBERTS RURAL WATER SYSTEM INC
MARK KRIESEL
THOMAS & DANIEL & MARK MILLER
A M FARMS INC
KOWALSKI FAMILY LTD LIABILITY PARTNERSHIP
MICHAEL D HENRICHS
RODNEY ZEMLICKA
COAST PROPERTIES INVESTORS LLC
MARK KRIESEL
DANIEL J KAHNKE
HARLAN MAAG
JOEL KOUSTRUP
FALK FARMS INC
JEFFREY A DORALE
GAME FISH

CR-1 CR-2 CR-3 CR-4 CR-5 CR-6 CR-7 CR-8 CR-9 CR-10 CR-11 CR-12 CR-13

Figure 3a. Project Map

Crowned Ridge Wind Farm

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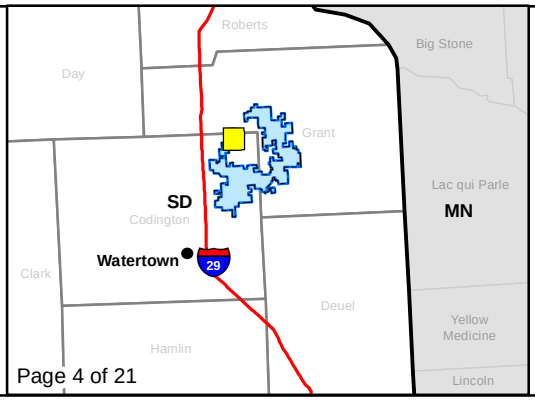

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Kilometers
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Miles
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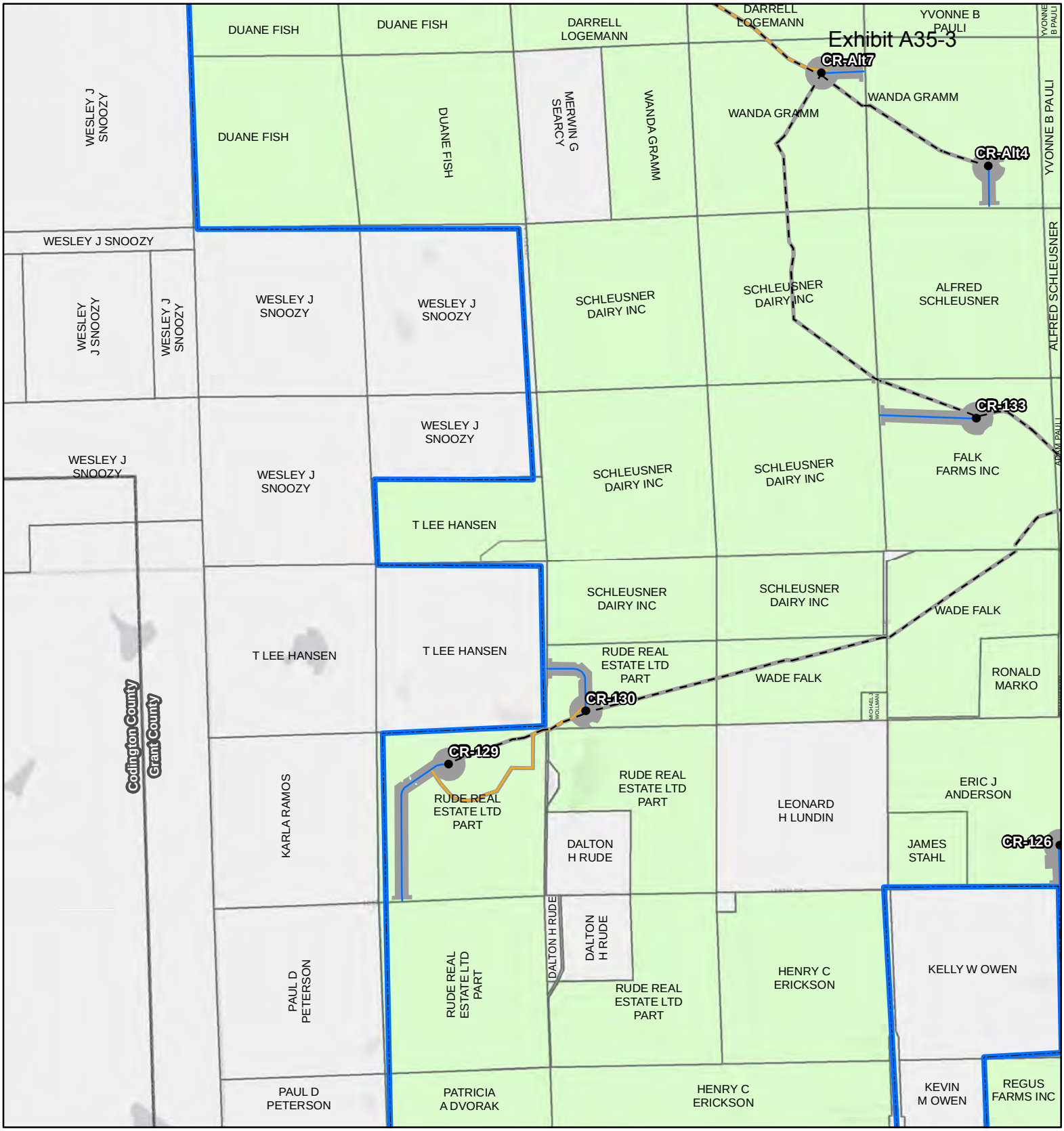
Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community
Quadrangle: Antelope Valley (1973), South Shore (1973)
Township/Range: T120N, R51W, T119N, R51W,
Codington and Grant Counties, South Dakota

SWCA ENVIRONMENTAL CONSULTANTS

Projection: NAD 1983 UTM Zone 14N



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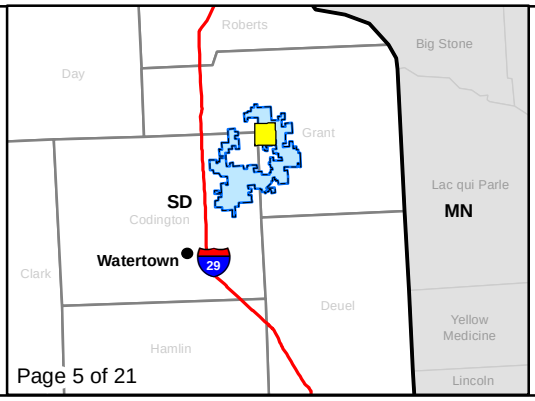

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Kilometers

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Miles

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Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community

Quadrangle: Antelope Valley (1973), Twin Brooks (1973)

Township/Range: T120N, R51W, T120N, R50W, T119N, R51W, T119N, R50W

Codington and Grant Counties, South Dakota

SWCA ENVIRONMENTAL CONSULTANTS

Projection: NAD 1983 UTM Zone 14N

Exhibit A35-3

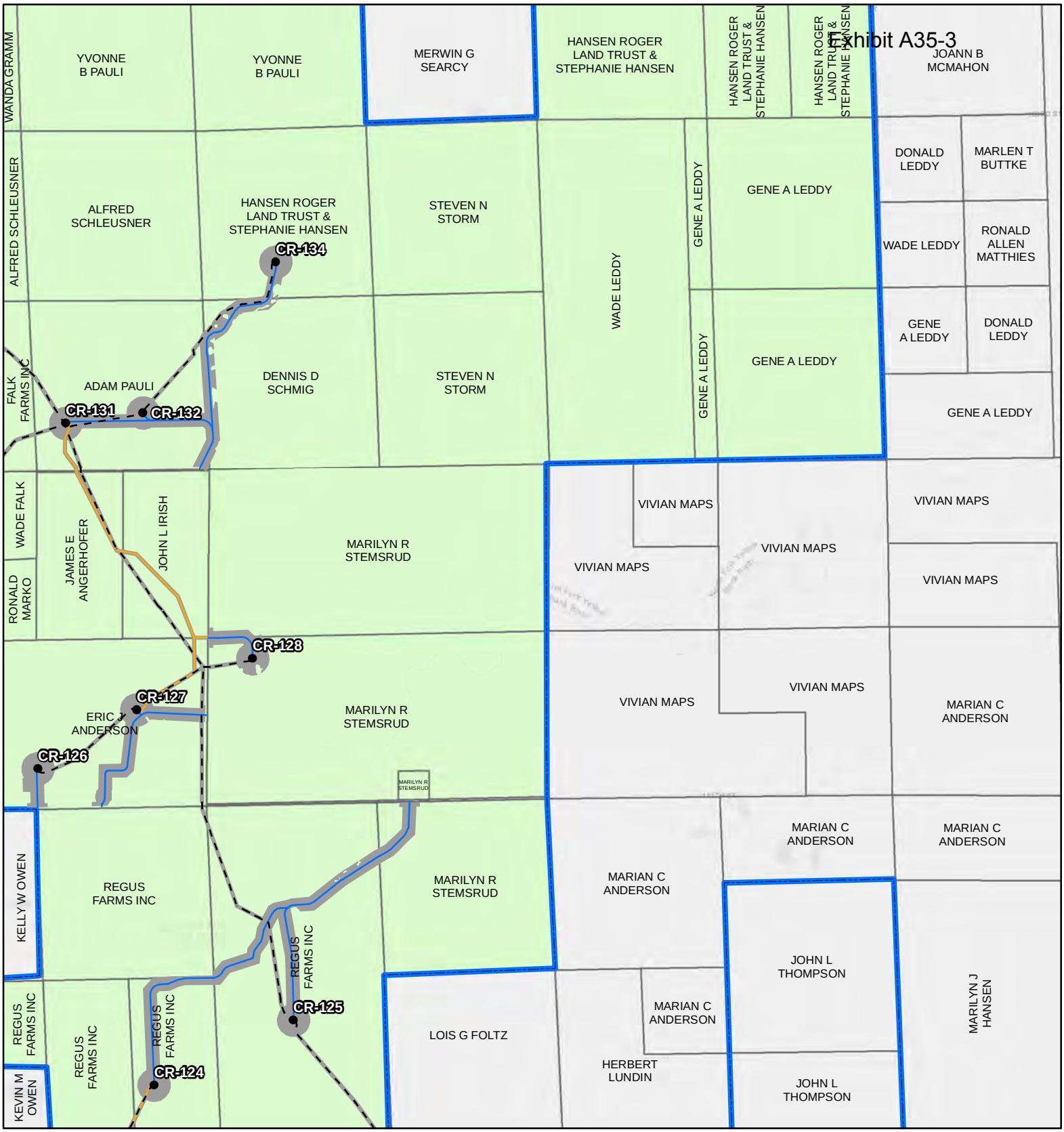

Figure 3a. Project Map

Crowned Ridge Wind Farm

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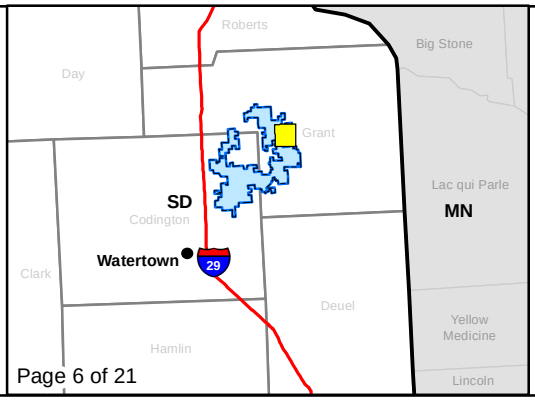

Kilometers
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Miles
0 0.25 0.5

Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community
Quadrangle: Twin Brooks (1973), Stockholm (1973)
Township/Range: T120N, R50W, T119N, R50W
Grant County, South Dakota

Projection: NAD 1983 UTM Zone 14N

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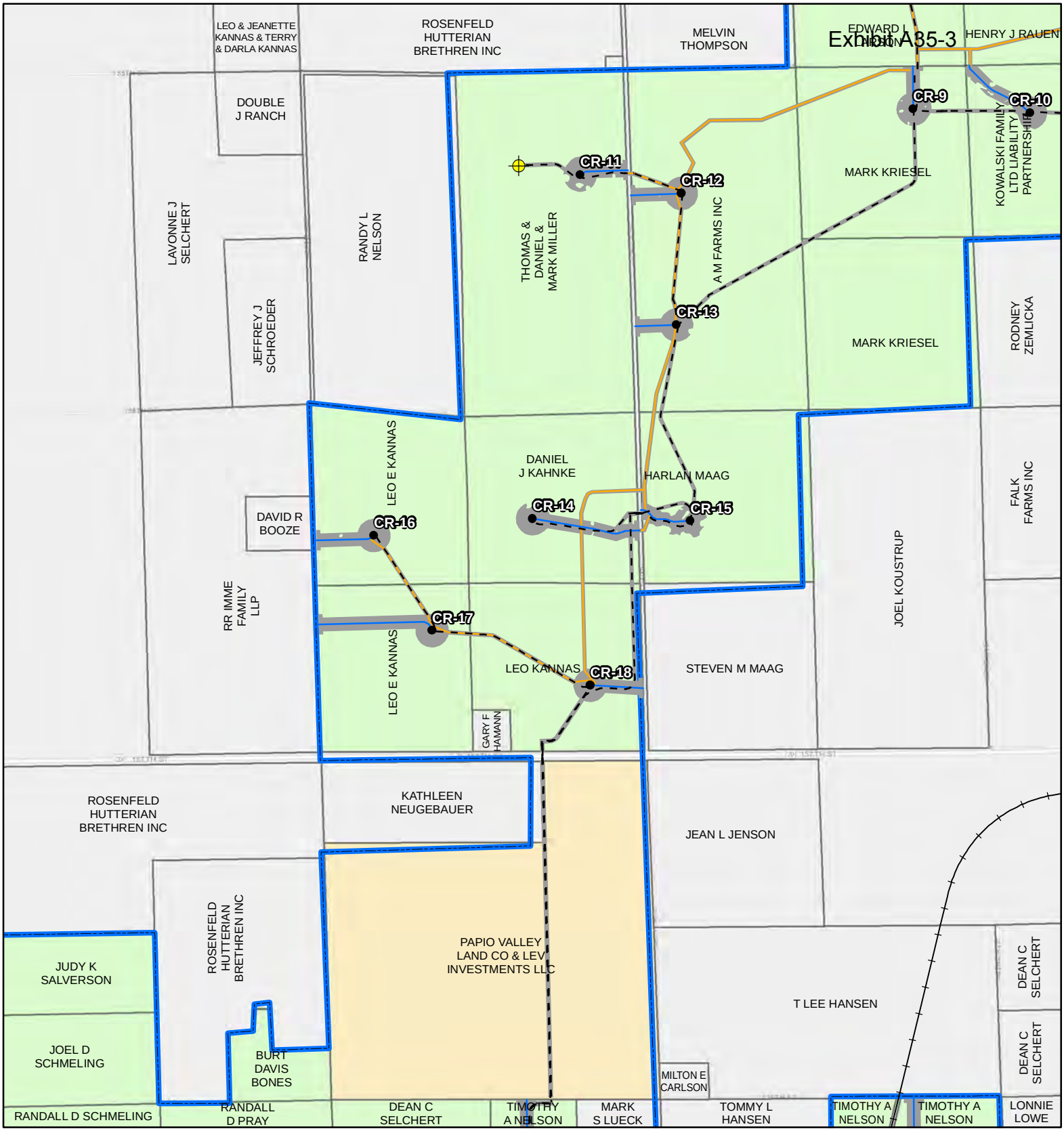

Figure 3a. Project Map

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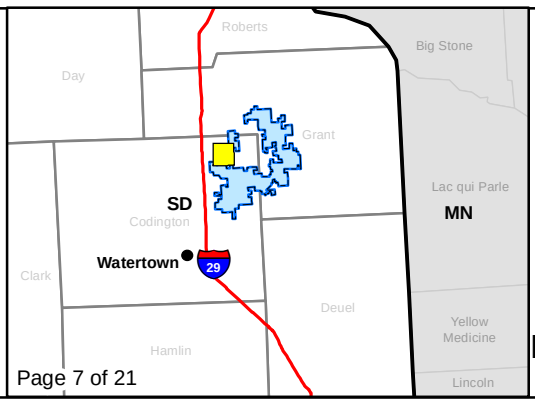

Page 7 of 21

Kilometers
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Miles
0 0.25 0.5

Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community
Quadrangle: Still Lake NE (1970), Antelope Valley (1973), Still Lake SE (1970), South Shore (1973)
Township/Range: T119N, R52W, T119N, R51W
Codington County, South Dakota

Projection: NAD 1983 UTM Zone 14N

SWCA ENVIRONMENTAL CONSULTANTS

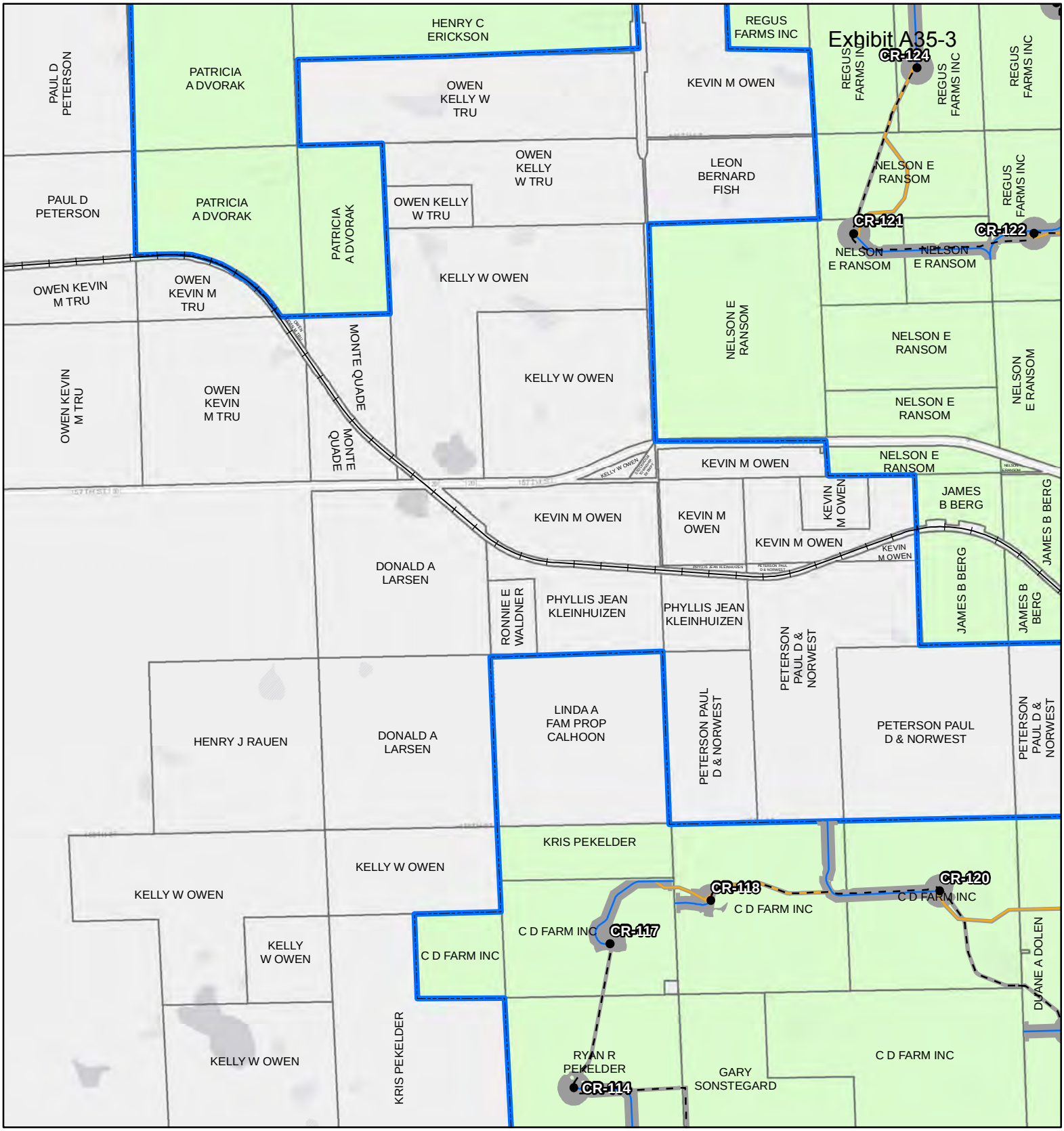

Figure 3a. Project Map

Crowned Ridge Wind Farm

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Lease Status

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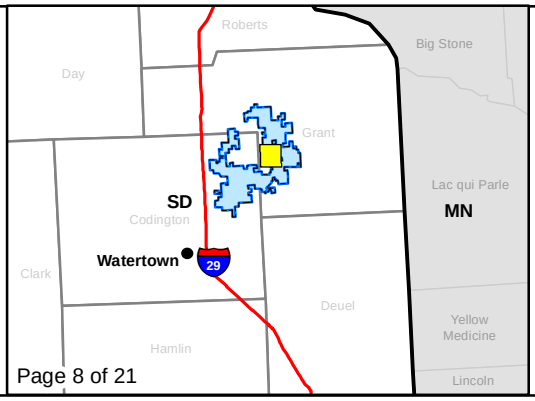

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Kilometers
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Miles
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Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community
Quadrangle: Stockholm (1973), Antelope Valley (1973), Twin Brooks (1973), South Shore (1973)
Township/Range: T119N, R50W

Grant County, South Dakota

010155

SWCA ENVIRONMENTAL CONSULTANTS

Projection: NAD 1983 UTM Zone 14N

Exhibit A35-3

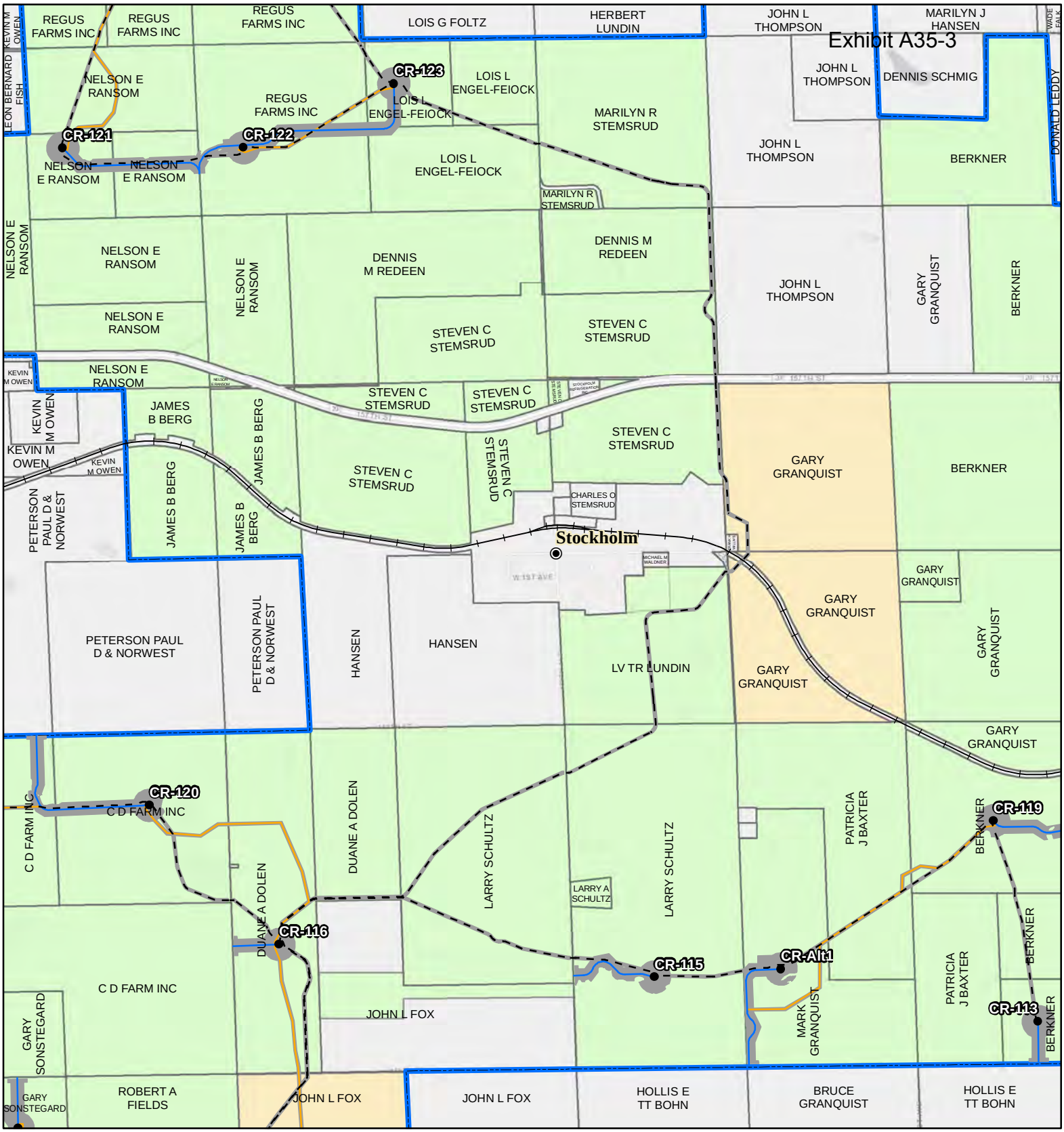

Figure 3a. Project Map

Crowned Ridge Wind Farm

- Turbine
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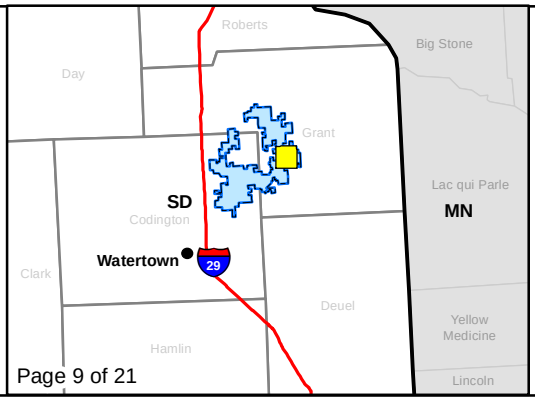

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Kilometers

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Miles

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Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community

Quadrangle: Stockholm (1973)

Township/Range: T119N, R50W

Grant County, South Dakota

Projection: NAD 1983 UTM Zone 14N

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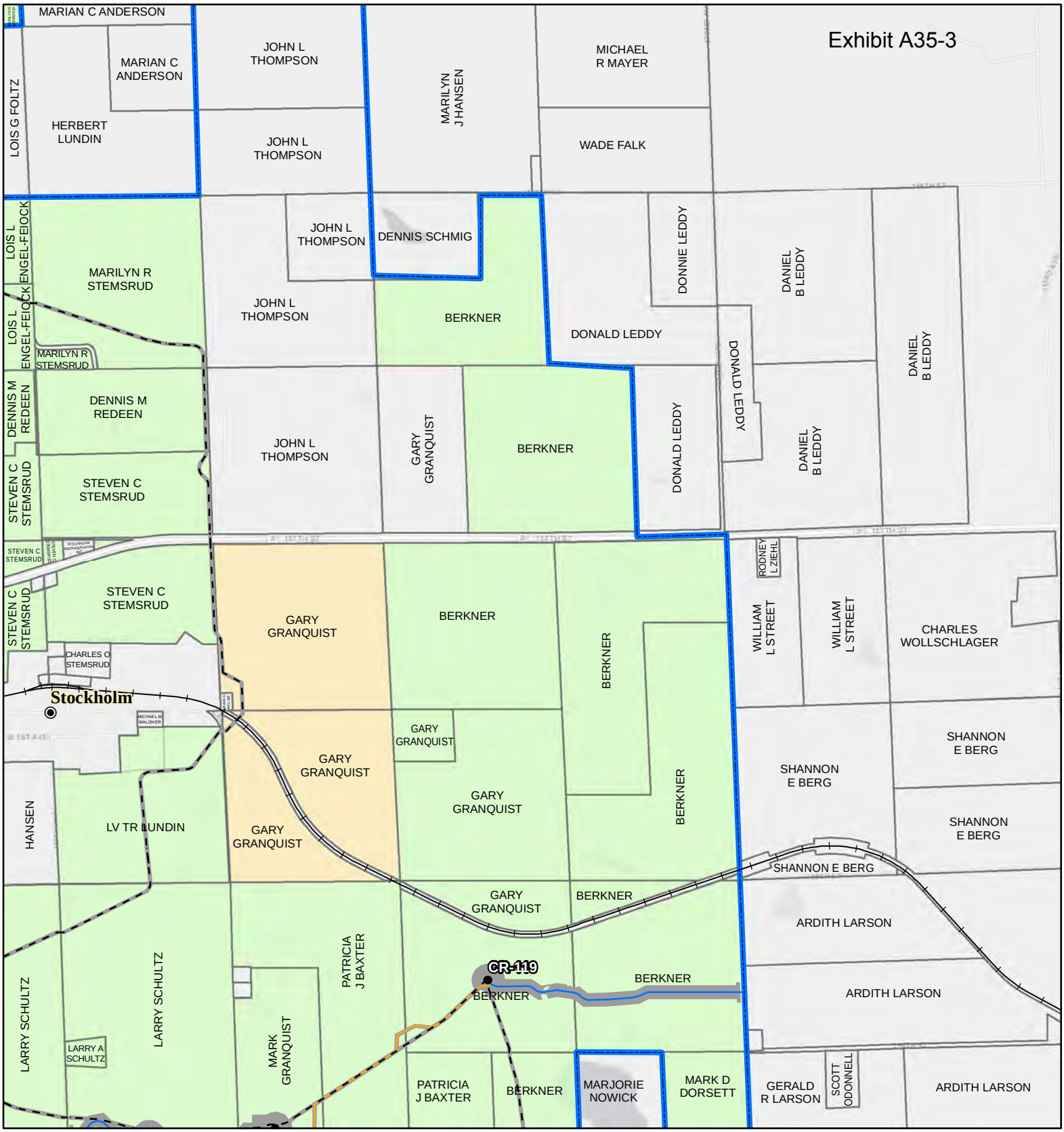

Figure 3a. Project Map

Crowned Ridge Wind Farm

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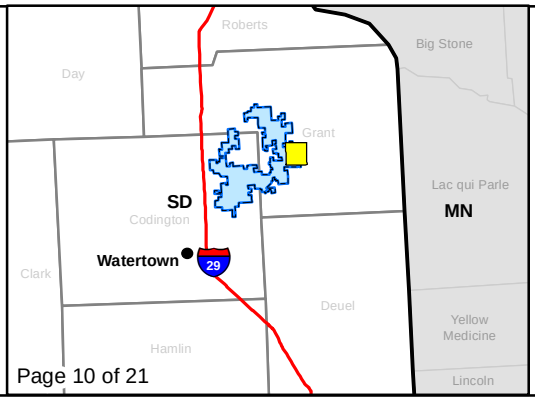

Kilometers: 0 0.5 1

Miles: 0 0.25 0.5

Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community

Quadrangle: Twin Brooks (1973), Stockholm (1973)

Township/Range: T119N, R50W, T119N, R49W

Grant County, South Dakota

Projection: NAD 1983 UTM Zone 14N

SWCA ENVIRONMENTAL CONSULTANTS

Exhibit A35-3

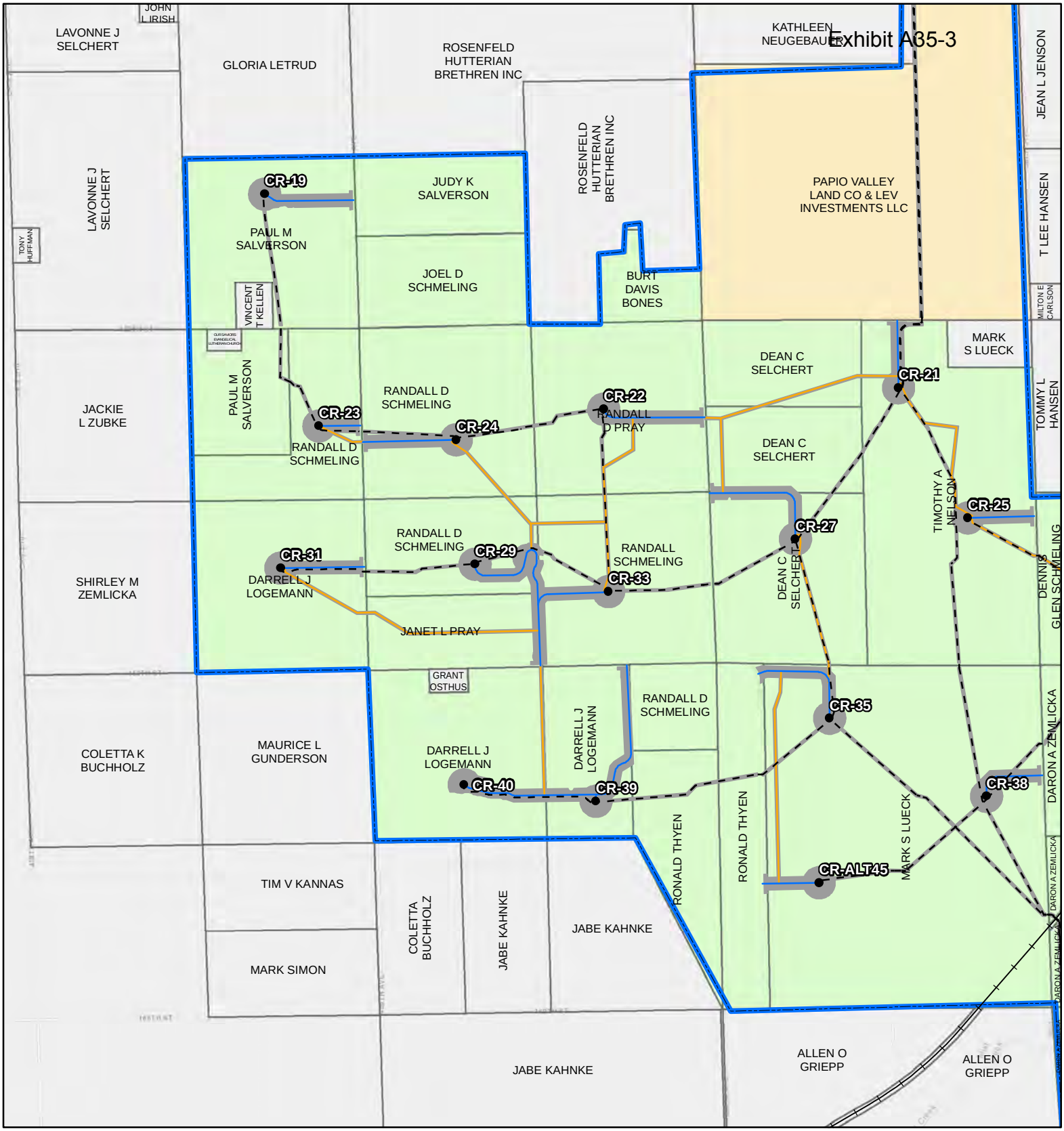

Figure 3a. Project Map

Crowned Ridge Wind Farm

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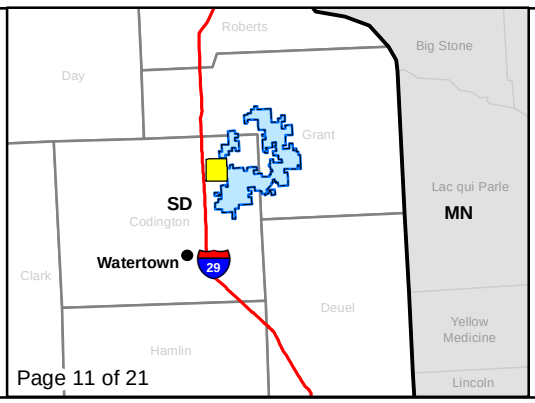

Page 11 of 21

Kilometers
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Miles
0 0.25 0.5

Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community
Quadrangle: Still Lake SE (1970), South Shore (1973)
Township/Range: T119N, R52W, T119N, R51W, T118N, R52W, T118N, R51W
Codington County, South Dakota

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010158

SWCA ENVIRONMENTAL CONSULTANTS

Projection: NAD 1983 UTM Zone 14N

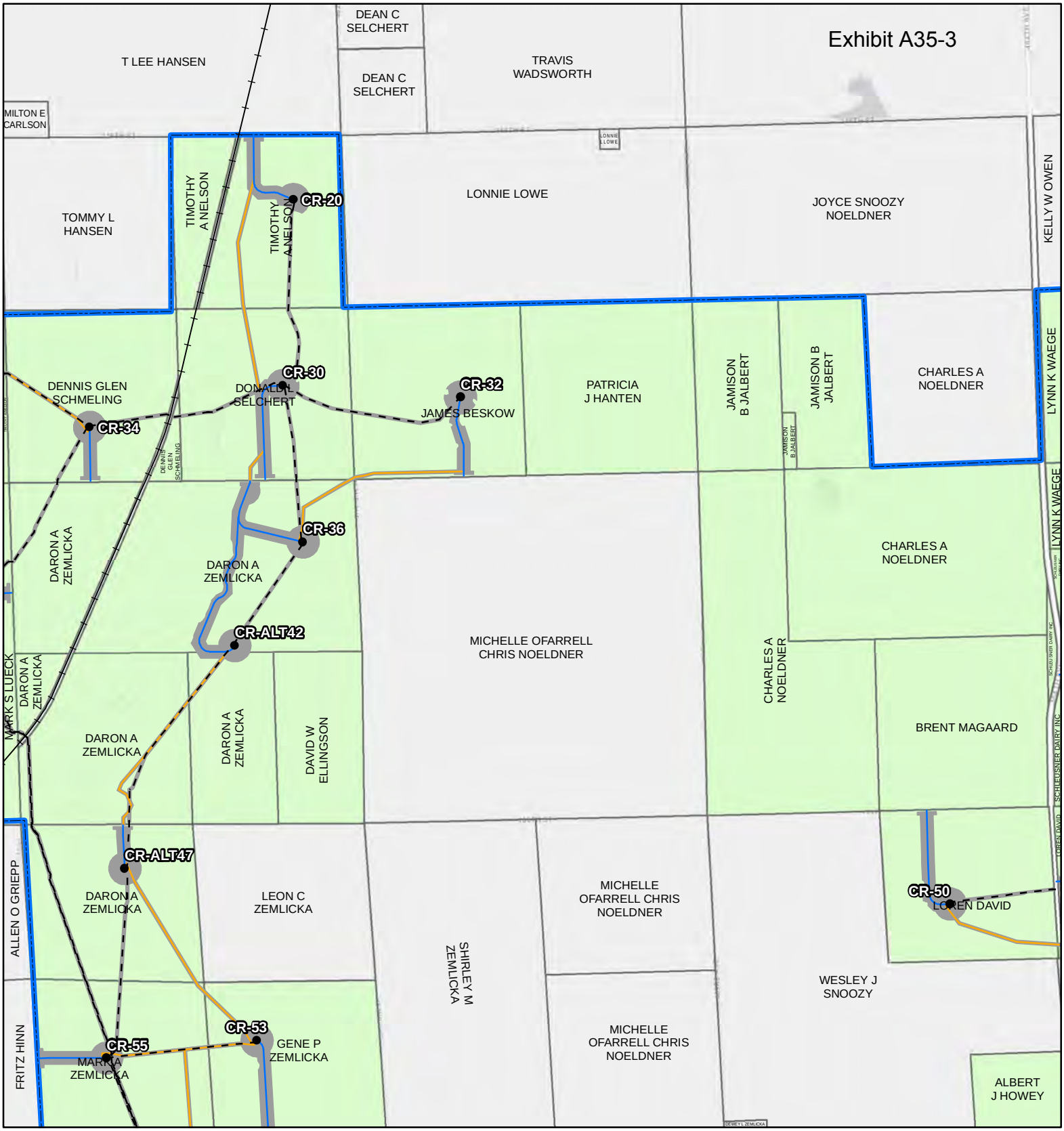

Figure 3a. Project Map

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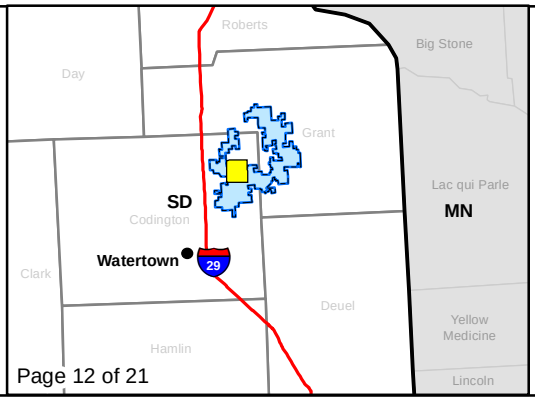

Kilometers
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Miles
0 0.25 0.5

Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community
Quadrangle: South Shore (1973)

Township/Range: T119N, R51W, T118N, R51W
Codington County, South Dakota

Projection: NAD 1983 UTM Zone 14N

SWCA ENVIRONMENTAL CONSULTANTS

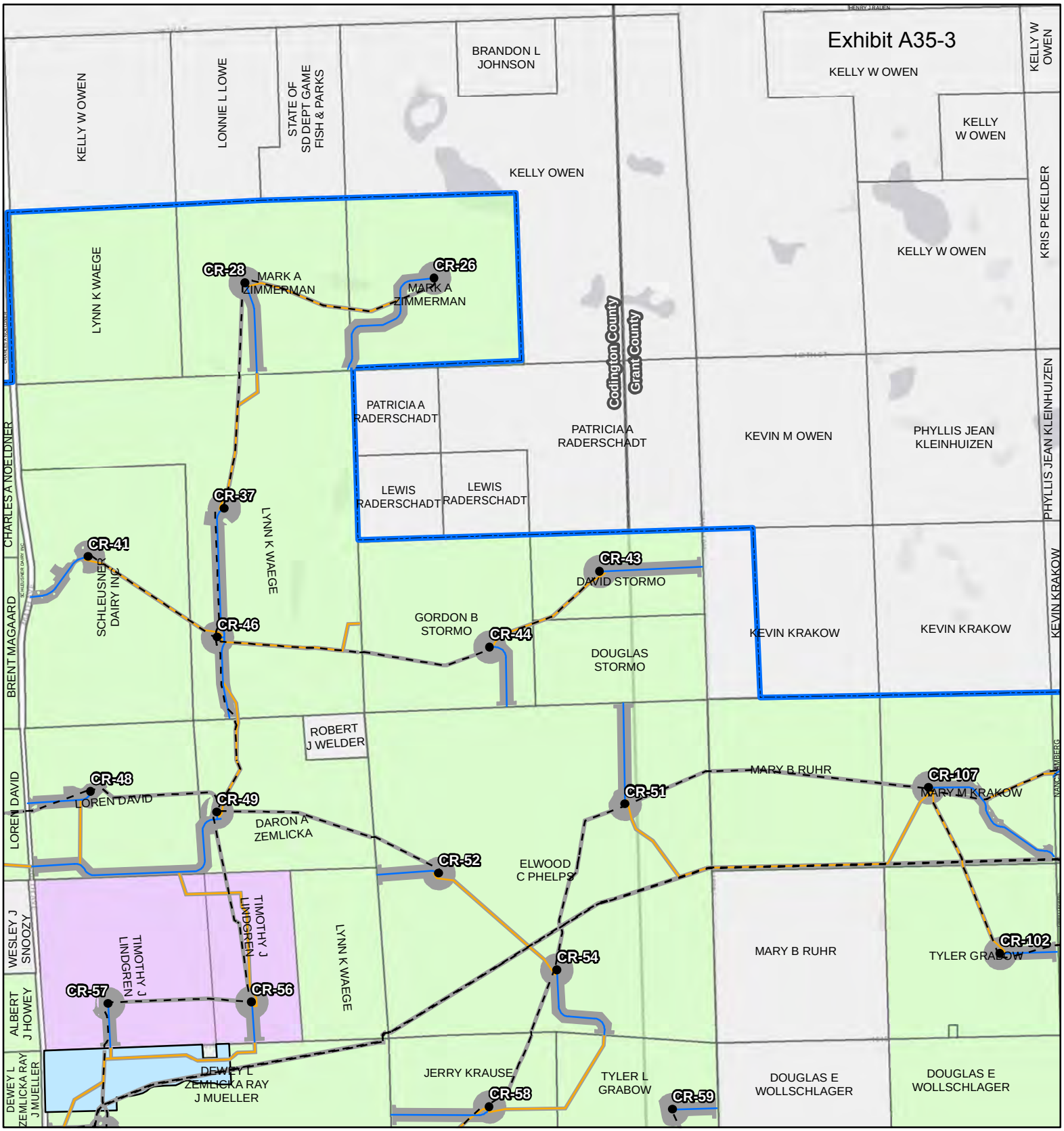

Figure 3a. Project Map

Crowned Ridge Wind Farm

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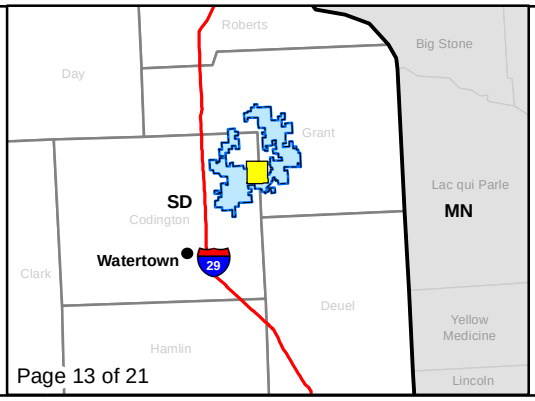

Kilometers
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Miles
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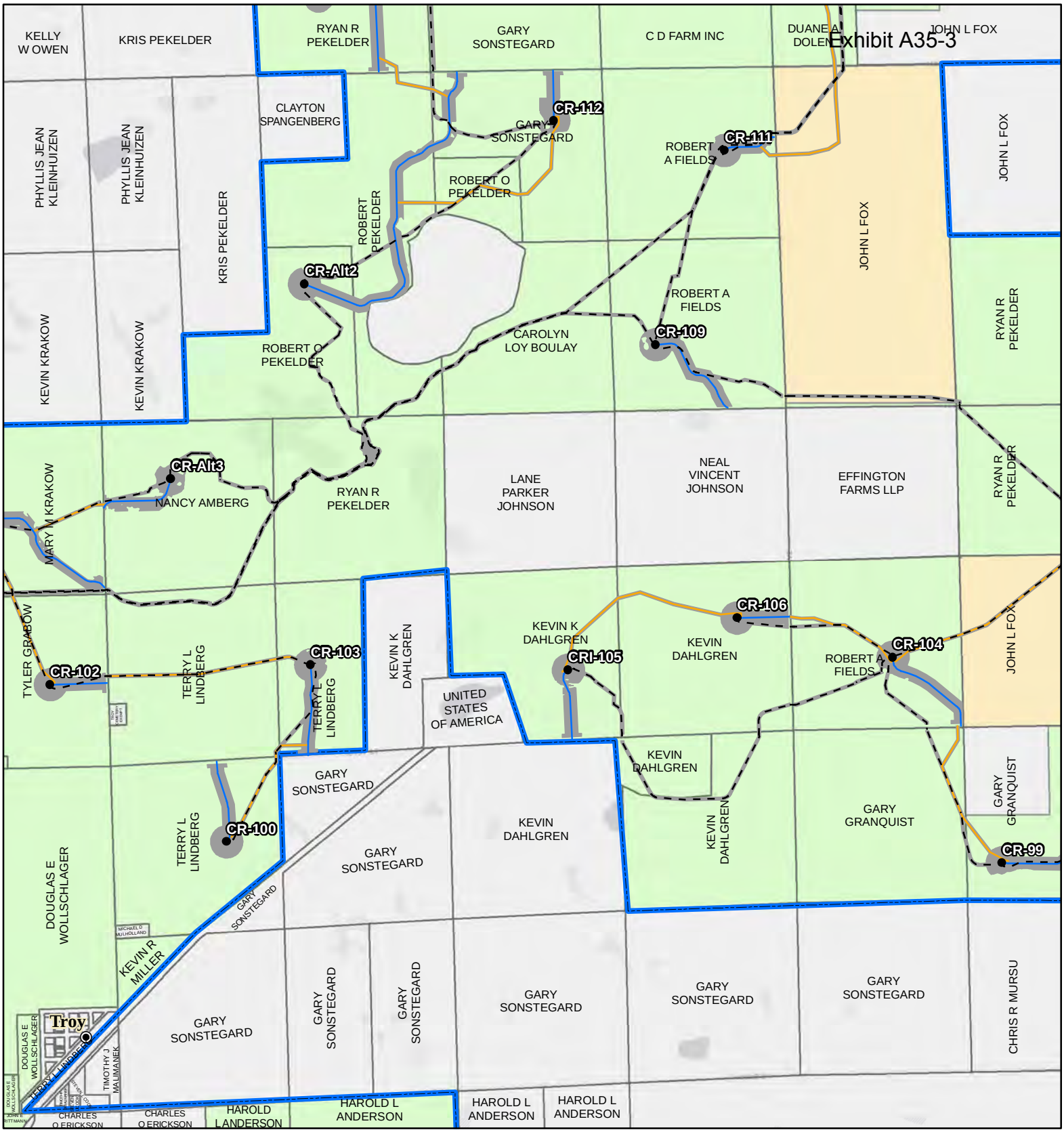
Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community
Quadrangle: South Shore (1973), Stockholm (1973)
Township/Range: T119N, R51W, T119N, R50W, T118N, R51W, T118N, R50W
Codington and Grant Counties, South Dakota

Projection: NAD 1983 UTM Zone 14N

SWCA ENVIRONMENTAL CONSULTANTS

Exhibit A35-3



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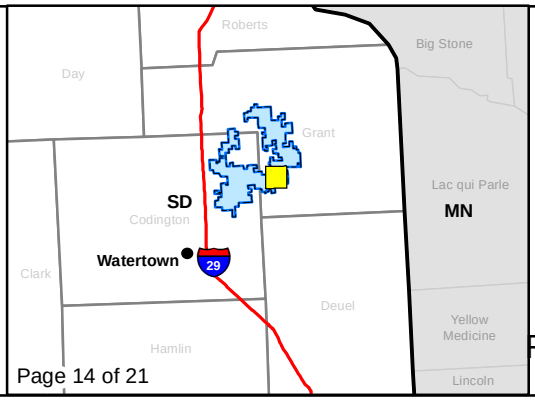

Kilometers: 0 0.5 1

Miles: 0 0.25 0.5

Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community

Quadrangle: Stockholm (1973)

Township/Range: T119N, R50W, T118N, R50W

Grant County, South Dakota

Projection: NAD 1983 UTM Zone 14N

SWCA ENVIRONMENTAL CONSULTANTS

Exhibit A35-3

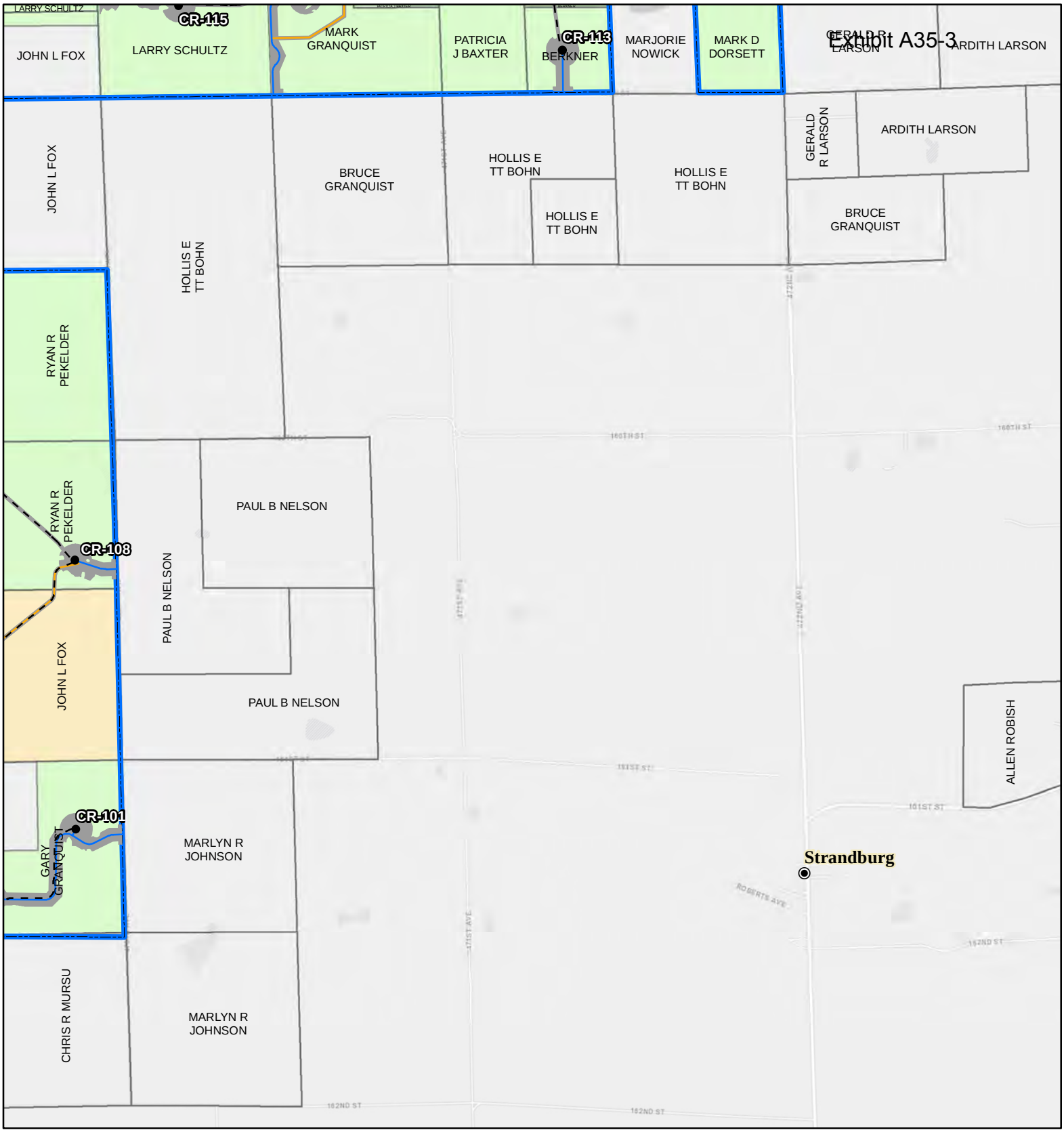

Figure 3a. Project Map

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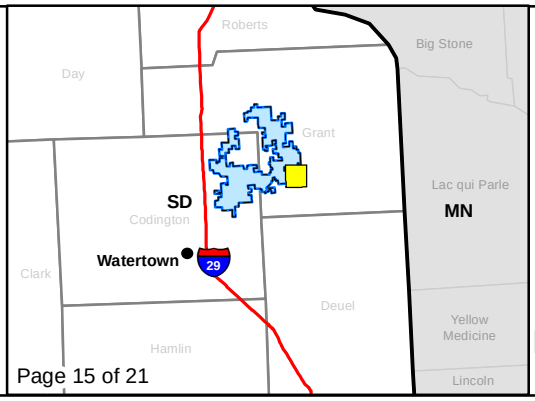

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Kilometers
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Miles
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Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community
Quadrangle: Stockholm (1973)

Township/Range: T119N, R50W, T118N, R50W
Grant County, South Dakota

Projection: NAD 1983 UTM Zone 14N

010162

SWCA ENVIRONMENTAL CONSULTANTS

Exhibit A05-3

ALLEN O GRIEPP
ALLEN O GRIEPP
DARON A ZEMLICKA
LEON C ZEMLICKA
JABE KAHNKE
FRITZ HINN
JABE KAHNKE
TONY BRESKE
CR-53
CR-55
MARK A ZEMLICKA
GENE P ZEMLICKA
RUSSELL J MATHEWS
CR-60
ALLEN O GRIEPP
SHIRLEY M ZEMLICKA
ROGER D MOHR
TIMOTHY A NELSON
FRITZ MAXMILLIAN VICTORIA
DANA TRUEBENBACH
DARIN BRANDENBURGER
CR-71
TIM DAGEL
FLOYD M HILDEN
ROGER MOHR
JABE KAHNKE
SHIRLEY LARSON
VICTORIA LUCY HINN
JANE HANTEN
CR-77
DAVID JEFFREY
GARY G JELLIS
JELLIS
DANIEL J THYEN
DAVID R STORMO
PHILIP D MACK
CR-79
JAMES COMES
MELISSA M. LYNCH
TIMOTHY A NELSON
DONALD L JELLIS
TRACY JO LUNDQUIST
CR-86
CR-85
KENNETH N COMES
PHILIP D MACK
BRIAN T STOLTENBURG
BRIAN T STOLTENBURG
SHIRLEY M ZEMLICKA
WILLIAM A & CAROL COMES & SHAWN COMES
KATHLEEN NELSON BEVE F STORMO
DAVID STORMO
CR-91
CR-89
CR-90
CR-93
DOUGLAS D BRANDRIET
KLEIN FAMILY FARMS INC
A M FARMS INC
DENNIS & MARY FLEMMING & MARK R SUMNER
SHIRLEY J STORMO
A M FARMS INC
LEON C ZEMLICKA
TIMOTHY A NELSON
KEN STORMO
DOUGLAS D STORMO
GORDON STORMO
DANIEL & BECKY THYEN & JAMES & PENNY THYEN
MERRILL L SIMON

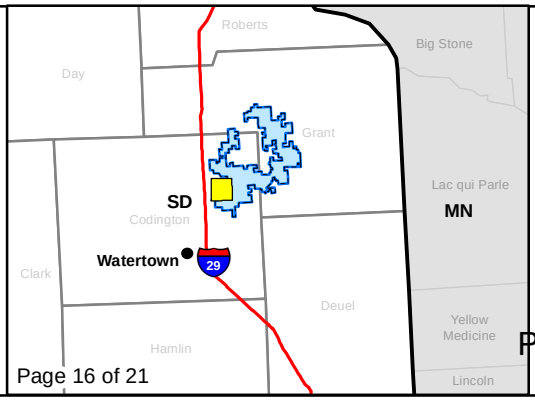
Figure 3a. Project Map

Crowned Ridge Wind Farm

- Turbine
- MET Tower
- City
- Access Road
- Collector Line
- Crane Path
- Railroad
- O&M Facility/ Substation
- Batch Plant
- Laydown Yard
- Construction Easement
- Parcel Boundary
- Project Boundary
- County Boundary

Lease Status

- Leased, Signed
- Pending
- Under Option but Likely to Expire/Not Resign



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Kilometers
0 0.5 1

Miles
0 0.25 0.5

Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community
Quadrangle: Still Lake SE (1970), South Shore (1973)
Township/Range: T118N, R52W, T118N, R51W
Codington County, South Dakota

Projection: NAD 1983 UTM Zone 14N

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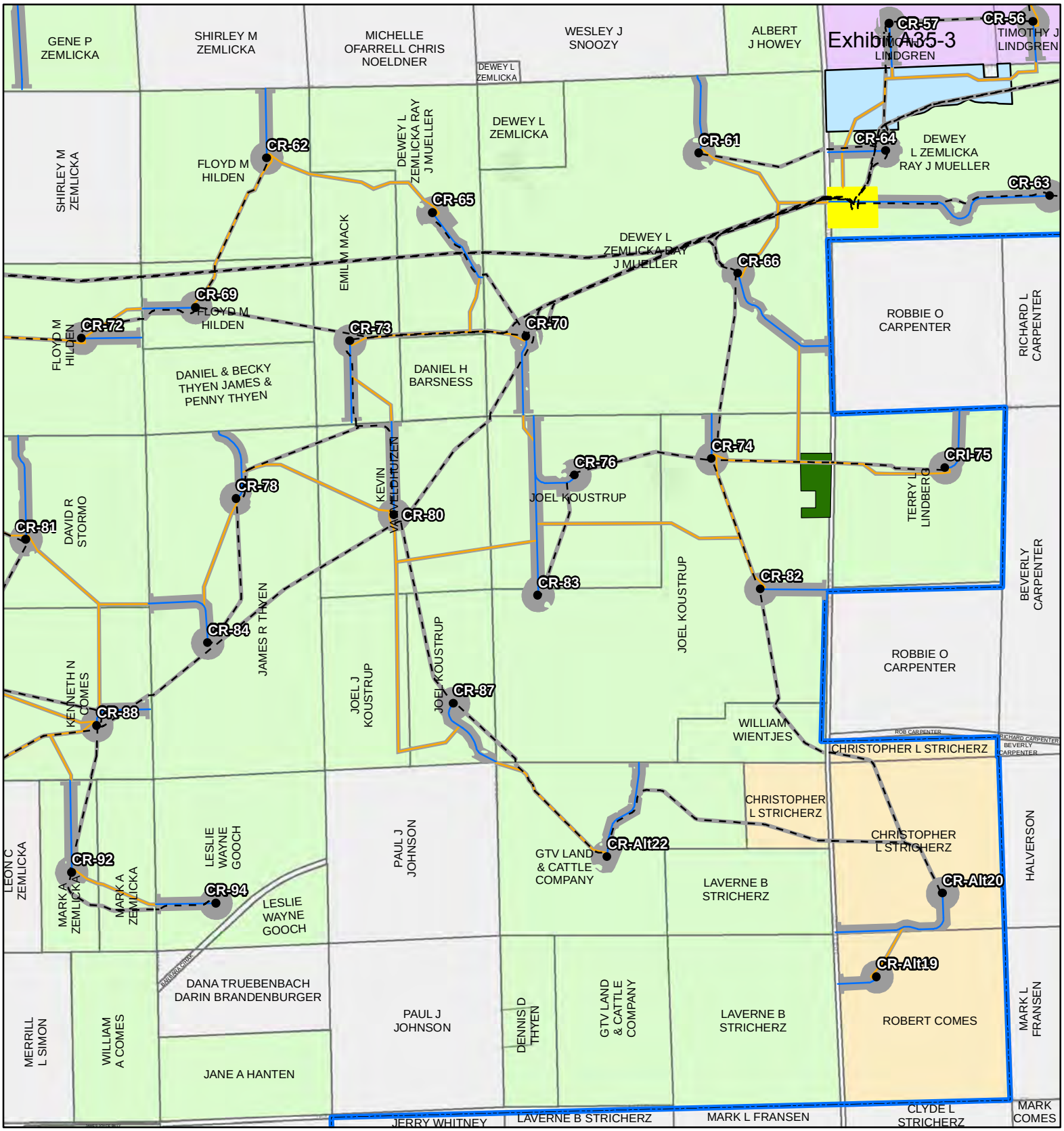

Figure 3a. Project Map

Crowned Ridge Wind Farm

- Turbine
- MET Tower
- City
- Access Road
- Collector Line
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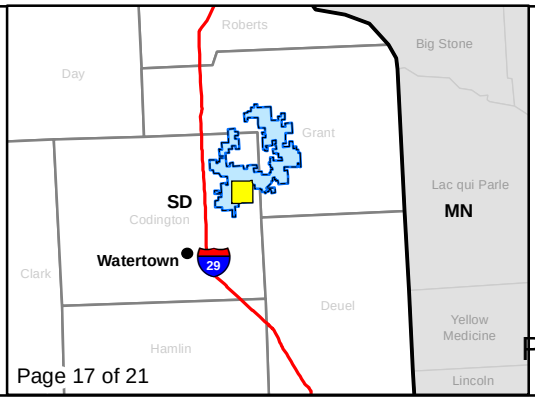

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Kilometers
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Miles
0 0.25 0.5

Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community

Quadrangle: South Shore (1973)

Township/Range: T118N, R51W

Codington County, South Dakota

Page 000018 010164

Projection: NAD 1983 UTM Zone 14N

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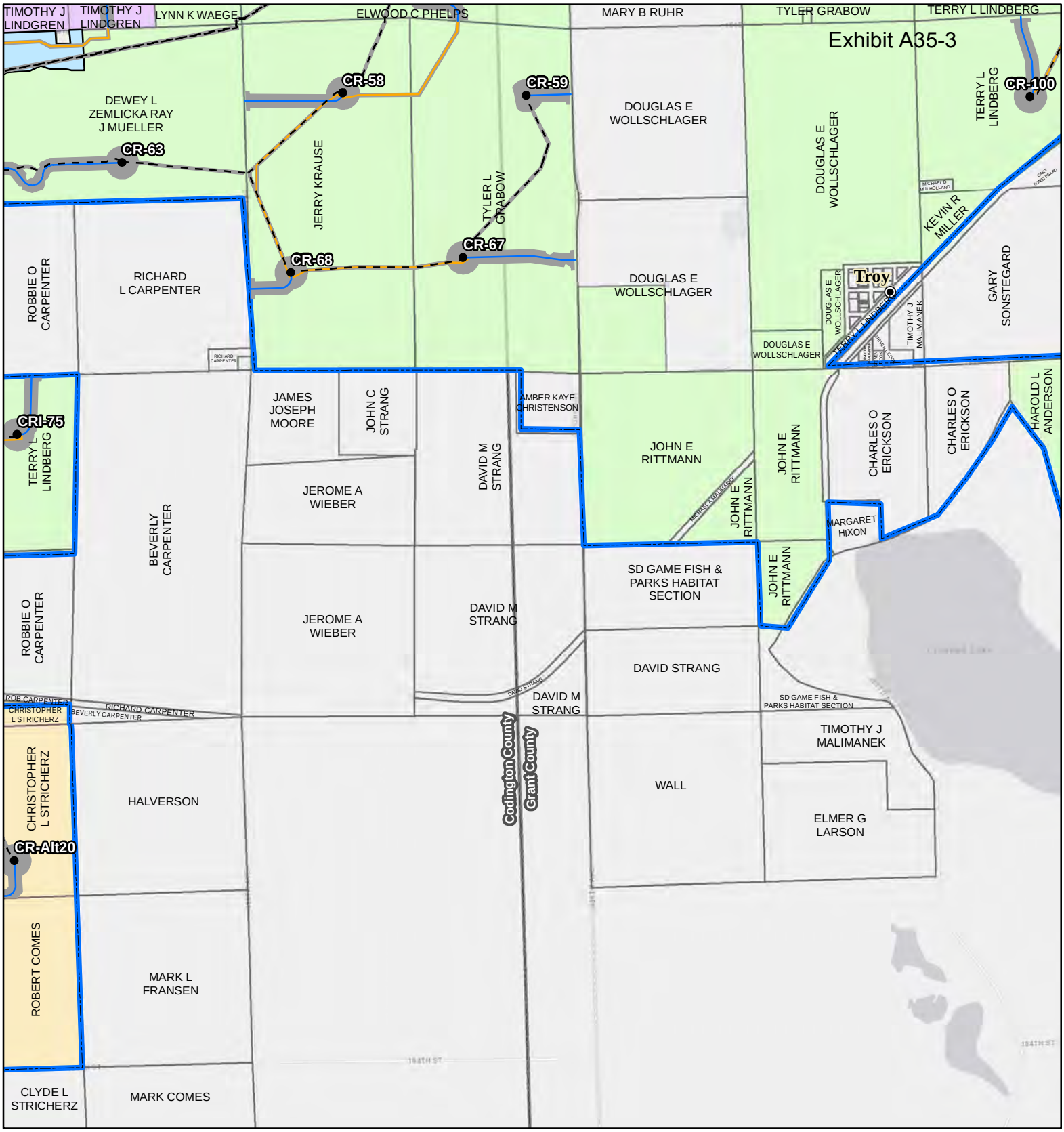

Figure 3a. Project Map

Crowned Ridge Wind Farm

- Turbine
- MET Tower
- City
- Access Road
- Collector Line
- Crane Path
- Railroad
- O&M Facility/ Substation
- Batch Plant
- Laydown Yard
- Construction Easement
- Parcel Boundary
- Project Boundary
- County Boundary

Lease Status

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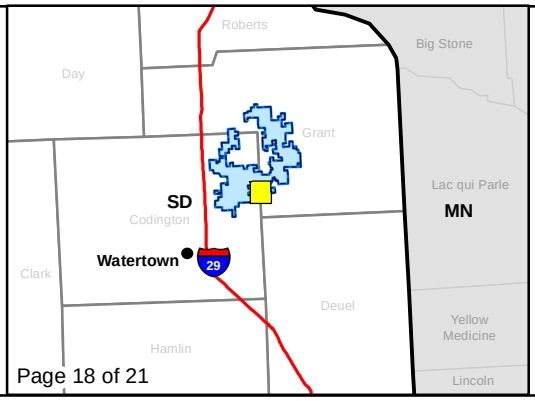
- Under Option but Likely to Expire/Not Resign



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Kilometers
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Miles
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Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community

Quadrangle: South Shore (1973), Stockholm (1973)

Township/Range: T118N, R51W, T118N, R50W

Codington and Grant Counties, South Dakota

Projection: NAD 1983 UTM Zone 14N

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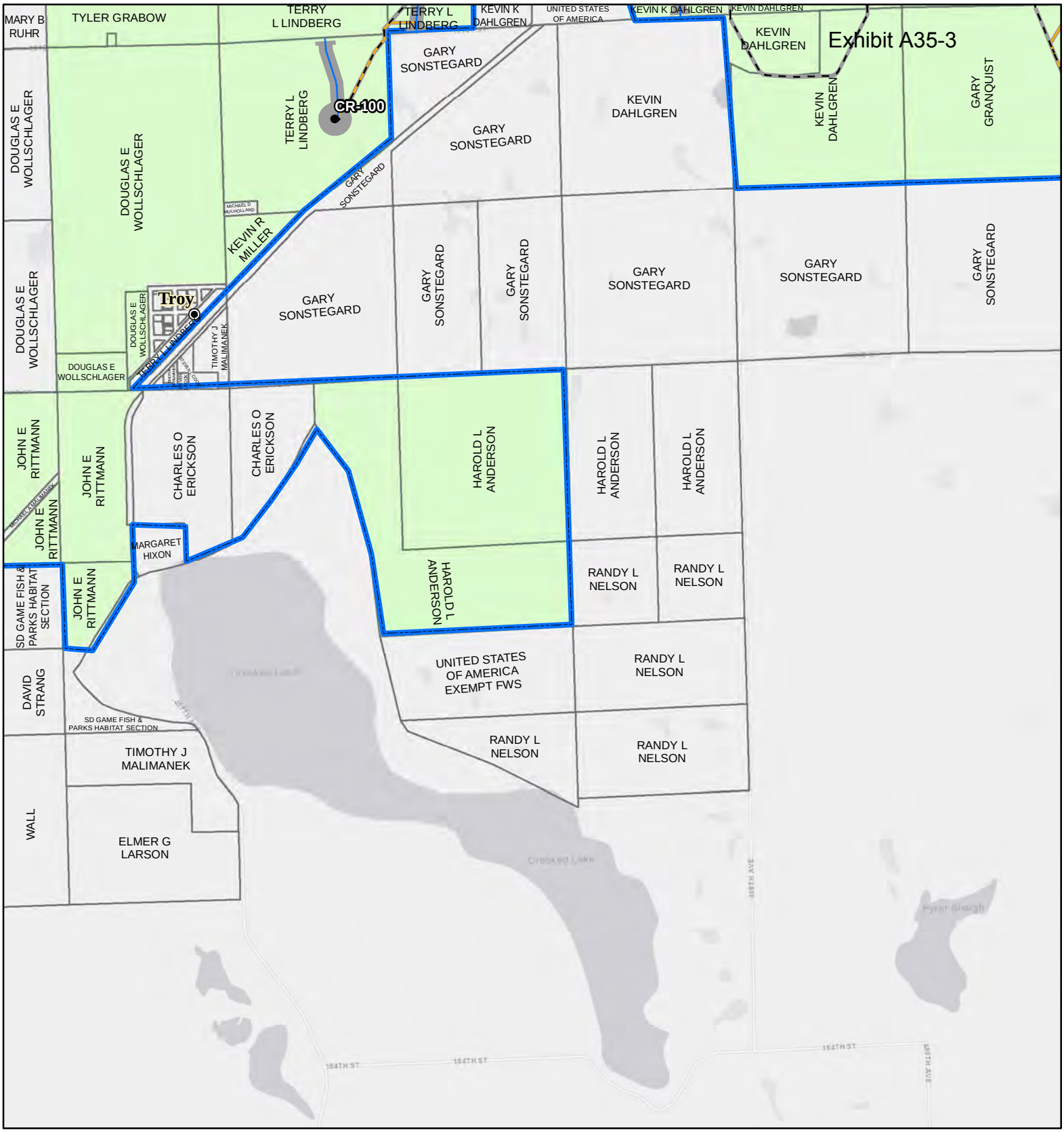

Figure 3a. Project Map

Crowned Ridge Wind Farm

- Turbine
- MET Tower
- City
- Access Road
- Collector Line
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- County Boundary

Lease Status

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- Pending
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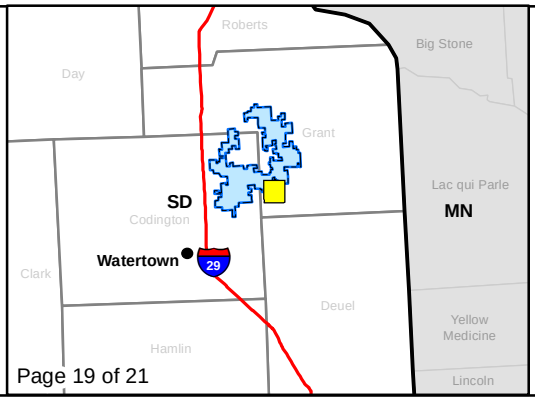

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Kilometers
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Miles
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Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community
Quadrangle: South Shore (1973), Stockholm (1973)
Township/Range: T118N, R50W

Grant County, South Dakota

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Projection: NAD 1983 UTM Zone 14N

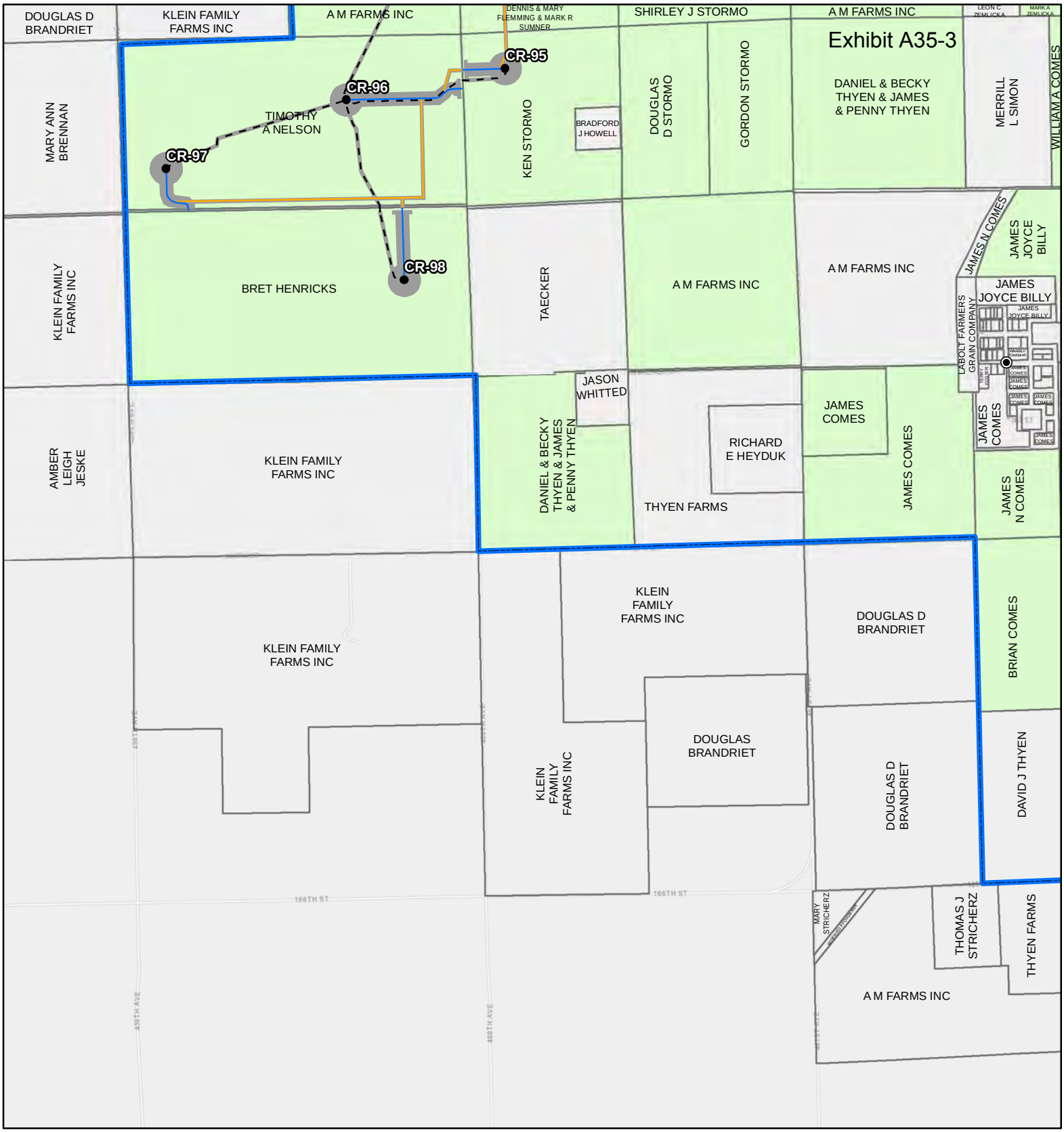

Figure 3a. Project Map

Crowned Ridge Wind Farm

- Turbine
- MET Tower
- City
- Access Road
- Collector Line
- Crane Path
- Railroad
- O&M Facility/ Substation
- Batch Plant
- Laydown Yard
- Construction Easement
- Parcel Boundary
- Project Boundary
- County Boundary

Lease Status

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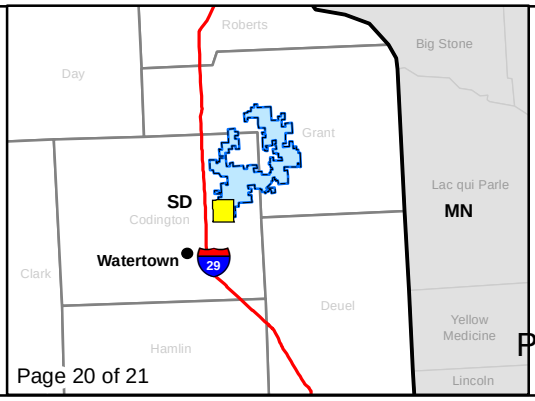
- Pending
- Under Option but Likely to Expire/Not Resign



Kilometers
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Miles
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Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community
Quadrangle: Still Lake SE (1970), Watertown East (1969), South Shore (1973), Kranzburg (1970)
Township/Range: T118N, R52W, T118N, R51W, T117N, R52W, T117N, R51W
Codington County, South Dakota

Projection: NAD 1983 UTM Zone 14N

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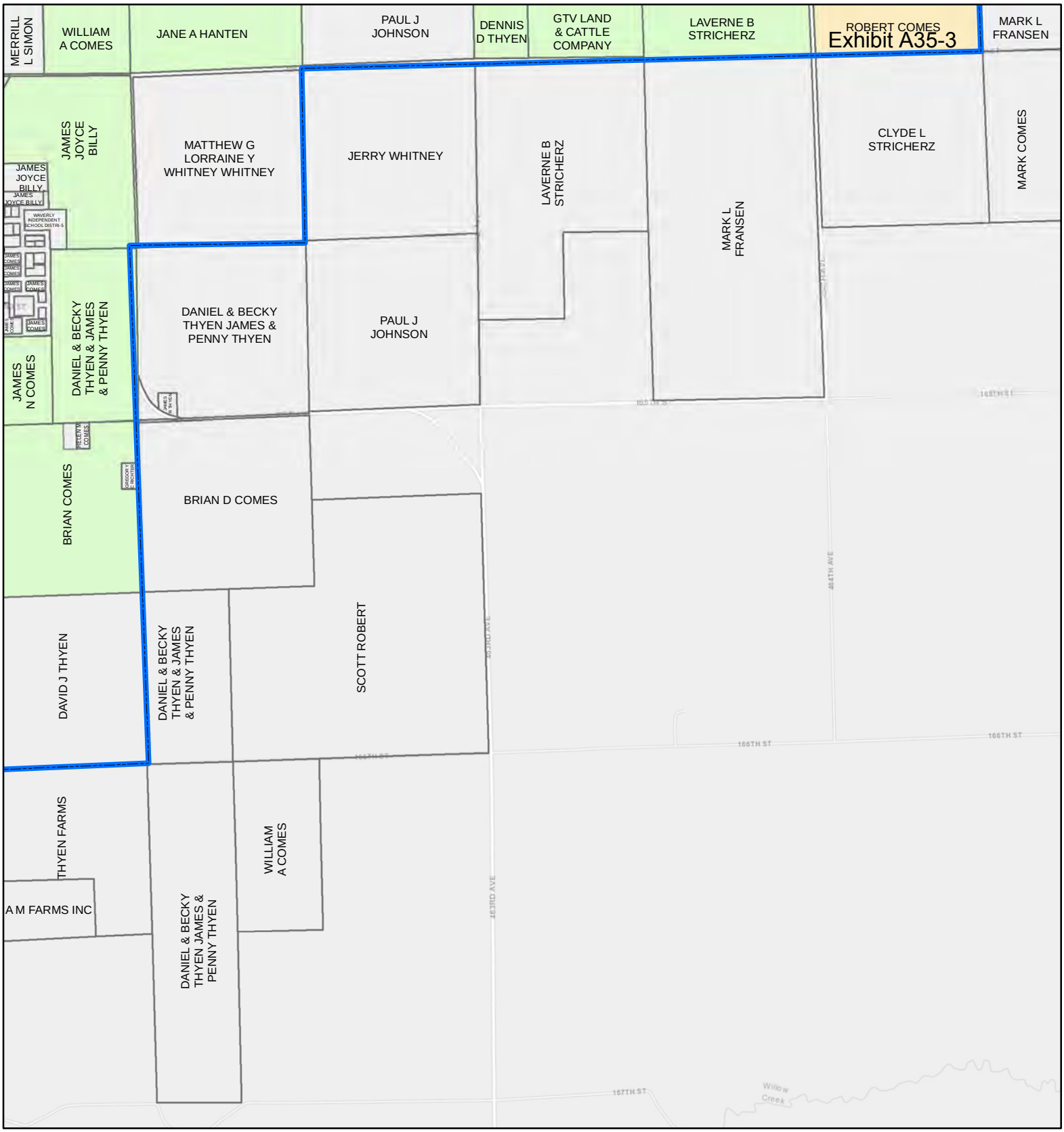

Figure 3a. Project Map

Crowned Ridge Wind Farm

- Turbine
- MET Tower
- City
- Access Road
- Collector Line
- Crane Path
- Railroad
- O&M Facility/ Substation
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- Project Boundary
- County Boundary

Lease Status

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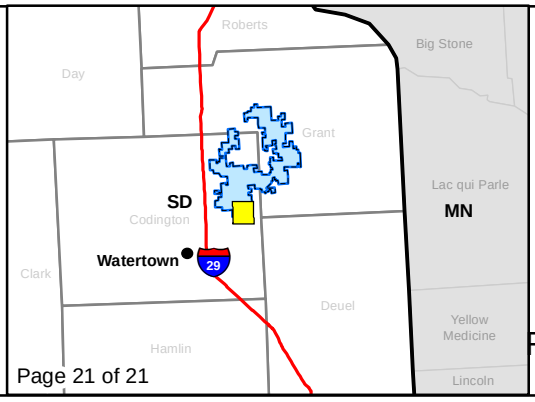

Kilometers
0 0.5 1

Miles
0 0.25 0.5

Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community
Quadrangle: South Shore (1973), Kranzburg (1970)
Township/Range: T118N, R51W, T117N, R51W
Codington County, South Dakota

Projection: NAD 1983 UTM Zone 14N

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Exhibit A35-3

Figure 3a. Project Map

Crowned Ridge Wind Farm

- MET Tower
- Turbine
- City
- Access Road
- Collector Line
- Crane Path
- Railroad
- Interstate Highway
- U.S. Highway
- State Highway
- O&M Facility/ Substation
- Town Boundary
- Project Boundary
- Parcel Boundary

Lease Status

- Leased, Signed
- Pending Approval
- Under Option but Likely to Expire/Not Resign

Kilometers 0 2.5 5

Miles 0 2.5 5

Base Map: World Light Gray Canvas Base Sources: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community Codington and Grant Counties, South Dakota

Projection: NAD 1983 UTM Zone 14N

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010169

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PHYLLIS A OLLERICH
FIRST BANK & TRUST TRUST B NORMAN MOLDENHAUER
JOHN SEFFROOD
JALOY GUSTAFSON
JALOY GUSTAFSON
JENNIFER DAUGAARD
DUANE STEEGE
LAVERNA MOLDENHAUER
LAZY J RANCH LLC
LAZY J RANCH LLC
LAZY J RANCH LLC
RICHARD EHRHART
LAZY J RANCH LLC
LAZY J RANCH LLC
LAZY J RANCH LLC
RICHARD EHRHART
ROBERT P HICKS
GENE A SPRUNG
NORMAN M CHRISTENSEN
KLEIN LAND & CATTLE II LLC
UNITED STATES OF AMERICA
LAZY J RANCH LLC
STEVEN N STORM
WETLANDS AMERICA TRUST INC
ROBERT P HICKS
GENE A SPRUNG
ALTA E JAQUET
UNITED STATES OF AMERICA
BETTY JUNE BOOTS
STEVEN N STORM
ROBERT S FAETH
ROBERT S FAETH
WILLIAM A ROE
VALERIE K ZEMLICKA
VALERIE K ZEMLICKA
LYNN CAPP
CR-Alt16
CR-Alt12
ROGER W HANSEN
RICHARD J FISH
WAYNE M JAQUET
UNITED STATES OF AMERICA
WILLIAM A ROE
WILLIAM A ROE
UNITED STATES OF AMERICA
EARL W HANSON
WESLEY J SNOOZY
JAMES S URBAN
RICHARD J FISH
RICHARD HANSEN
KOWALSKI FAM LTD LIAB PART
TANAKA LAND TRUST
CR-Alt8
KOWALSKI FAM LTD LIAB PART
JAMES ZIRBEL
BRYAN DRAGT
WESLEY J SNOOZY
WESLEY J SNOOZY
WESLEY J SNOOZY
DUANE FISH
DUANE FISH
INEZ SCHICKEDANZ
JAMES ZIRBEL

Figure 3a. Project Map

Crowned Ridge Wind Farm

- Turbine
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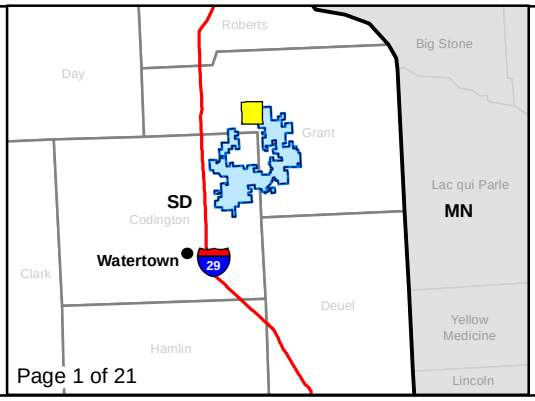

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Kilometers
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Miles
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N W E S

Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community
Quadrangle: Antelope Valley (1973), Twin Brooks (1973)
Township/Range: T120N, R51W, T120N, R50W
Grant County, South Dakota

 010170

SWCA ENVIRONMENTAL CONSULTANTS

Projection: NAD 1983 UTM Zone 14N

Exhibit A35-3

JALOY GUSTAFSON
JEFF SCHMIDT
DUANE STEEGE
FIRST BANK & TRUST TRUST B NORMAN MOLDENHAUER
MICHAEL MCKERNAN
JANICE J FREDRICKSON
LOREN J HOLSCHER
South Fork Whetstone River
150TH ST
NORMAN M CHRISTENSEN
DONALD HAACKE
GREAT WESTERN BANK
RICHARD EHRHART
FIRST BANK & TRUST TRUST B NORMAN MOLDENHAUER
LAVERNA MOLDENHAUER
DARREL A SMITH
CR-Alt18
CR-Alt17
ALTA E JAQUET
RICHARD EHRHART
RICHARD EHRHART
DARREL A SMITH
DARREL A SMITH
FIRST BANK & TRUST TRUST B NORMAN MOLDENHAUER
LAVERNA MOLDENHAUER
WAYNE M JAQUET
CR-Alt14
RICHARD HANSEN
RICHARD HANSEN
CR-Alt15
FIRST BANK & TRUST TRUST B NORMAN MOLDENHAUER
FIRST BANK & TRUST TRUST B NORMAN MOLDENHAUER
LAVERNA MOLDENHAUER
JERALD M PAULI
CR-Alt11
CR-Alt9
RICHARD HANSEN
RICHARD HANSEN
RICHARD HANSEN
RUBY ELLA TERESA DAVIS
LAVERNA MOLDENHAUER
FIRST BANK & TRUST TRUST B NORMAN MOLDENHAUER
FALK FARMS INC
FALK FARMS INC
ROGER HANSEN
ERIC T HANSEN
JOHN T HICKS
DUANE FISH
DARRELL LOGEMANN
DARRELL LOGEMANN
YVONNE B PAULI
YVONNE B PAULI
YVONNE B PAULI
MERWIN G SEARCY
DUANE FISH
MERWIN G SEARCY
WANDA GRAMM
WANDA GRAMM
CR-Alt7
WANDA GRAMM
YVONNE B PAULI
YVONNE B PAULI
MERWIN G SEARCY

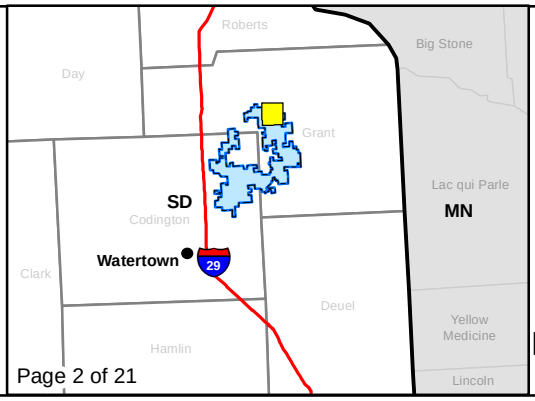
Figure 3a. Project Map

Crowned Ridge Wind Farm

- Turbine
- MET Tower
- City
- Access Road
- Collector Line
- Crane Path
- Railroad
- O&M Facility/ Substation
- Batch Plant
- Laydown Yard
- Construction Easement
- Parcel Boundary
- Project Boundary
- County Boundary

Lease Status

- Leased, Signed
- Pending
- Under Option but Likely to Expire/Not Resign



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Kilometers
0 0.5 1

Miles
0 0.25 0.5

N W E S

Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community
Quadrangle: Twin Brooks (1973)

Township/Range: T120N, R50W

Grant County, South Dakota

Projection: NAD 1983 UTM Zone 14N

010171

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Exhibit A35-3

FIRST BANK & TRUST TRUST B NORMAN MOLDENHAUER
LAVERNA MOLDENHAUER
LOREN JOHN HOLSCHER
LAVERNA MOLDENHAUER
JERALD M PAULI
CAROL J SCHAFFER-HALVERSON
KRISTI MOGEN
FALK FARMS INC
FALK FARMS INC
MERWIN SEARCY
JOHN T HICKS
KYLE P WEBER
WILLIAM TOSTENSON
DANIEL R DOCKTER
YVONNE B PAULI
MERWIN G SEARCY
LOREN J HOLSCHER
LAVERNA MOLDENHAUER
EARL C SELCHERT
CHRISTOPHER ZUBKE
YVONNE B PAULI
YVONNE B PAULI
MERWIN G SEARCY
HANSEN ROGER LAND TRUST & STEPHANIE HANSEN
HANSEN ROGER LAND TRUST & STEPHANIE HANSEN
HANSEN ROGER LAND TRUST & STEPHANIE HANSEN
JOANN B MCMAHON
ALFRED SCHLEUSNER
HANSEN ROGER LAND TRUST & STEPHANIE HANSEN
CR-134
STEVEN N STORM
WADE LEDDY
GENE A LEDDY
GENE A LEDDY
DONALD LEDDY
MARLEN T BUTTKE
WADE LEDDY
RONALD ALLEN MATTHIES
GENE A LEDDY
DONALD LEDDY
ADAM PAULI
DENNIS D SCHMIG
STEVEN N STORM
GENE A LEDDY
GENE A LEDDY
GENE A LEDDY

Figure 3a. Project Map

Crowned Ridge Wind Farm

- Turbine
- MET Tower
- City
- Access Road
- Collector Line
- Crane Path
- Railroad
- O&M Facility/ Substation
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- Parcel Boundary
- Project Boundary
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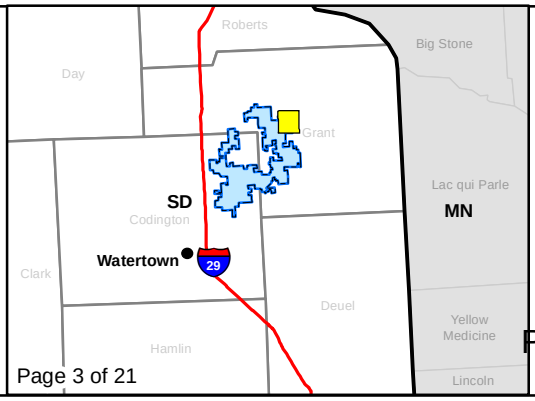

Page 3 of 21

Kilometers
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Miles
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Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community
Quadrangle: Twin Brooks (1973)

Township/Range: T120N, R50W

Grant County, South Dakota

Projection: NAD 1983 UTM Zone 14N

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Exhibit A35-3

PHILIP J TAECKER
PHILIP J TAECKER
WILLOW RUN FARMS
WILLOW RUN FARMS
JAMES A TAECKER
MICHAEL HENRICHS
GTV LAND & CATTLE CO INC
WILLOW RUN FARMS
JOHN E ARTHUR
JAMES A TAECKER
RONALD SCHMELING
GTV LAND & CATTLE CO INC
JAMES G ZIRBEL
JOHN E ARTHUR
Grant County
Codington County
STEPHEN V KOWALSKI
NANCY C ADAIR
MELVIN THOMPSON
HENRY J RAUEN
DENNIS G SCHMELING
DOUGLAS D BRANDRIET
DANIEL J THYEN
ROSENFELD HUTTERIAN BRETHREN INC
EDWARD L LARSON
HENRY J RAUEN
MICHAEL D HENRICHS
MICHAEL D HENRICHS
KOWALSKI FAMILY LTD LIABILITY PARTNERSHIP
GRANT ROBERTS RURAL WATER SYSTEM INC
MARK KRIESEL
THOMAS & DANIEL & MARK MILLER
A M FARMS INC
KOWALSKI FAMILY LTD LIABILITY PARTNERSHIP
MICHAEL D HENRICHS
RODNEY ZEMLICKA
COAST PROPERTIES INVESTORS LLC
MARK KRIESEL
DANIEL J KAHNKE
HARLAN MAAG
JOEL KOUSTRUP
FALK FARMS INC
JEFFREY A DORALE
GAME FISH

CR-1 CR-2 CR-3 CR-4 CR-5 CR-6 CR-7 CR-8 CR-9 CR-10 CR-11 CR-12 CR-13

Figure 3a. Project Map

Crowned Ridge Wind Farm

- Turbine
- MET Tower
- City
- Access Road
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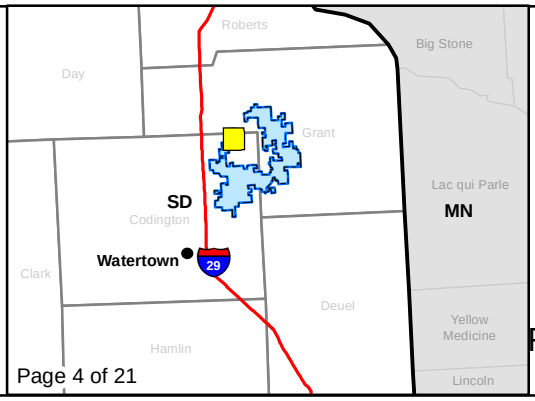

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Kilometers
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Miles
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Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community
Quadrangle: Antelope Valley (1973), South Shore (1973)
Township/Range: T120N, R51W, T119N, R51W,
Codington and Grant Counties, South Dakota

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Projection: NAD 1983 UTM Zone 14N

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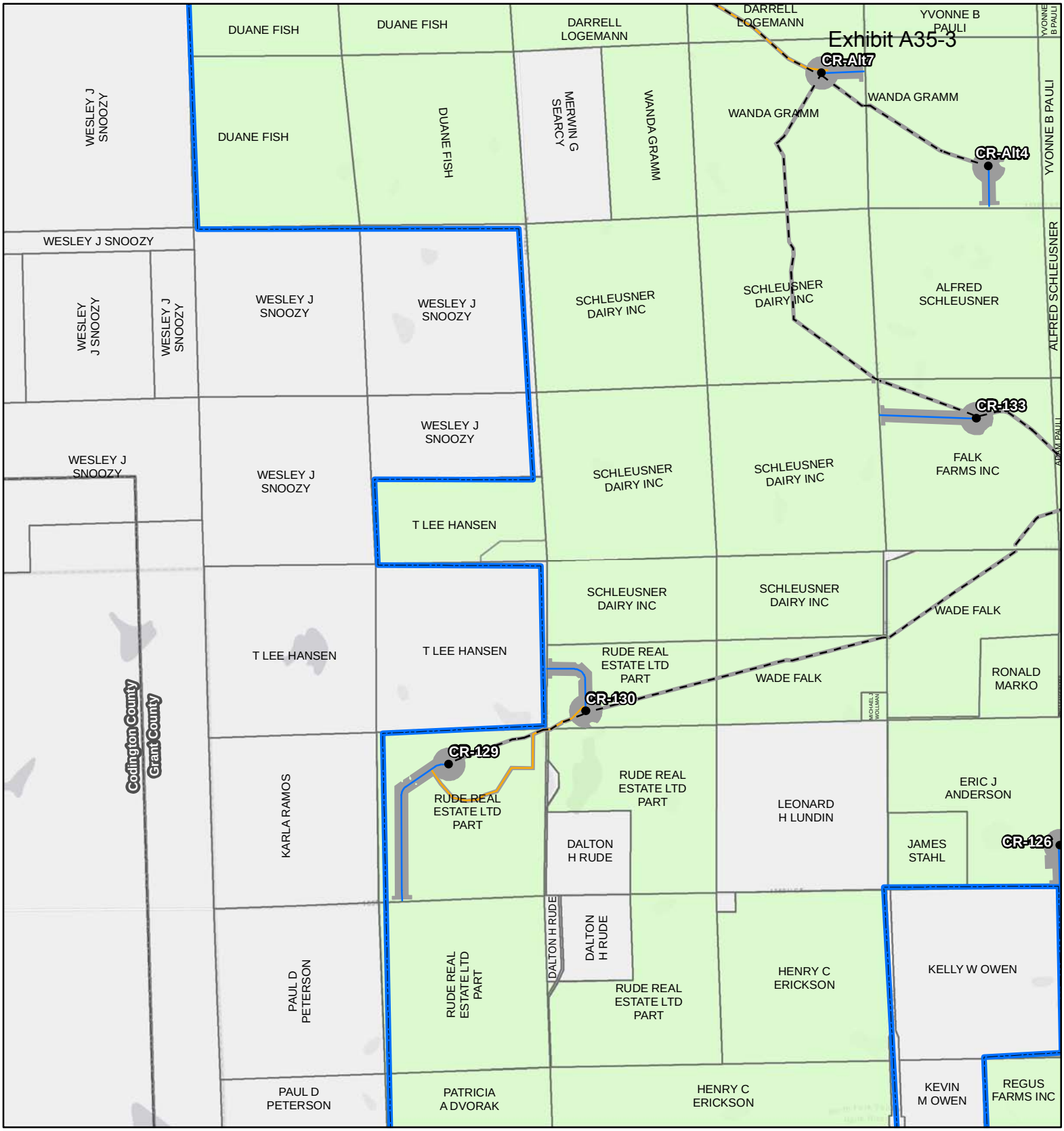

Figure 3a. Project Map

Crowned Ridge Wind Farm

- Turbine
- MET Tower
- City
- Access Road
- Collector Line
- Crane Path
- Railroad
- O&M Facility/ Substation
- Batch Plant
- Laydown Yard
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- Parcel Boundary
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- County Boundary

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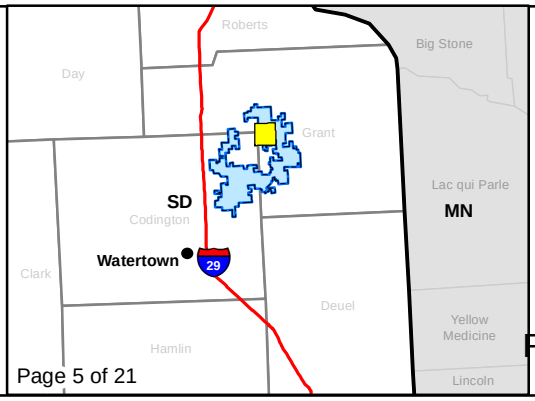

Page 5 of 21

Kilometers
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Miles
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Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community
Quadrangle: Antelope Valley (1973), Twin Brooks (1973)
Township/Range: T120N, R51W, T120N, R50W, T119N, R51W, T119N, R50W
Codington and Grant Counties, South Dakota

Projection: NAD 1983 UTM Zone 14N

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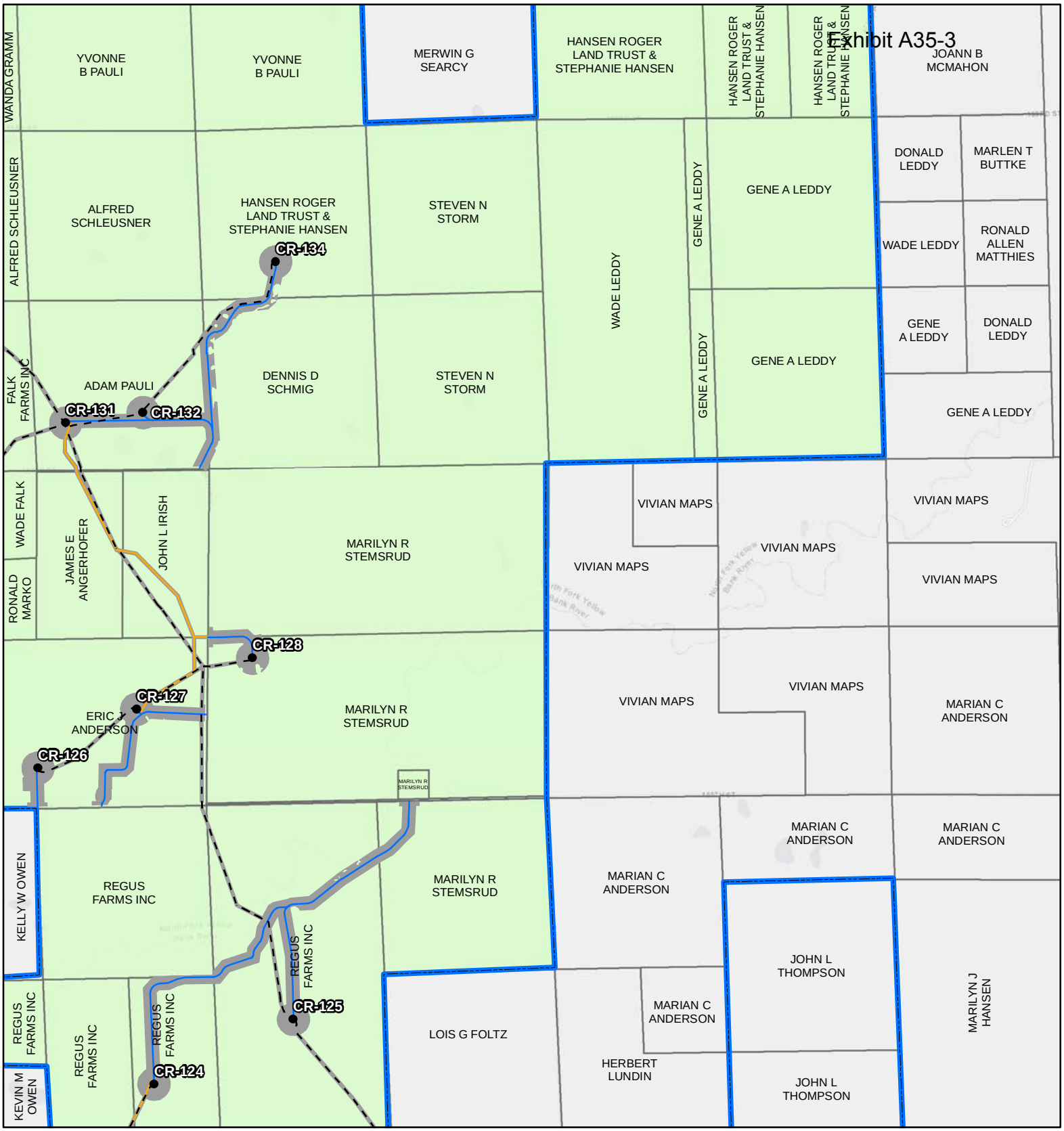

Figure 3a. Project Map

Crowned Ridge Wind Farm

- Turbine
- MET Tower
- City
- Access Road
- Collector Line
- Crane Path
- Railroad
- O&M Facility/ Substation
- Batch Plant
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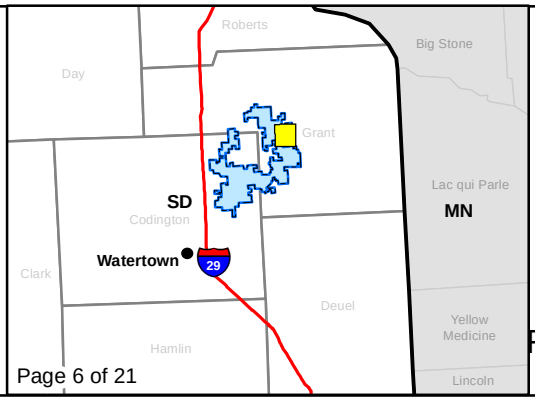

Kilometers
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Miles
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Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community
Quadrangle: Twin Brooks (1973), Stockholm (1973)
Township/Range: T120N, R50W, T119N, R50W
Grant County, South Dakota

Projection: NAD 1983 UTM Zone 14N

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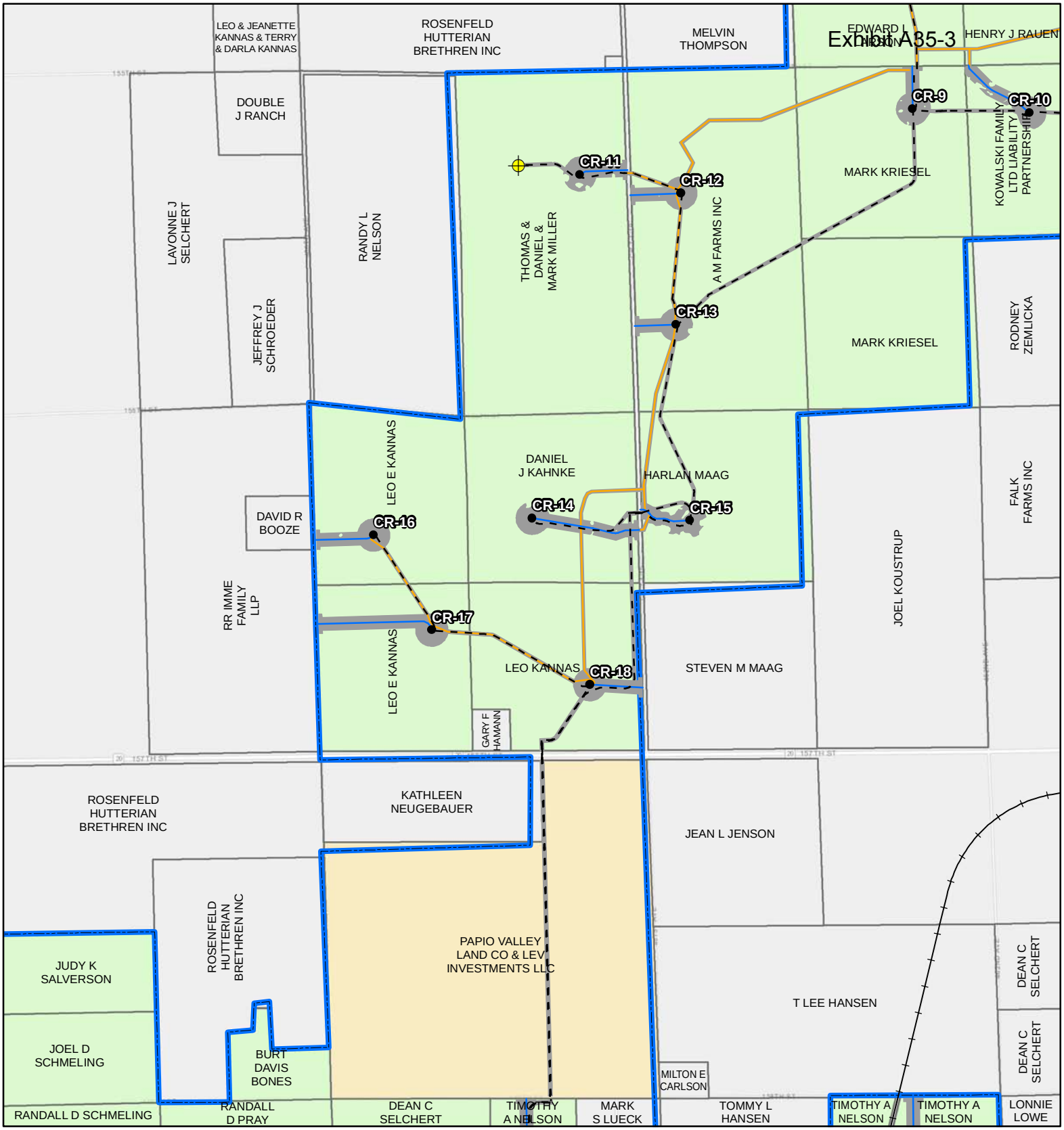

Figure 3a. Project Map

Crowned Ridge Wind Farm

- Turbine
- MET Tower
- City
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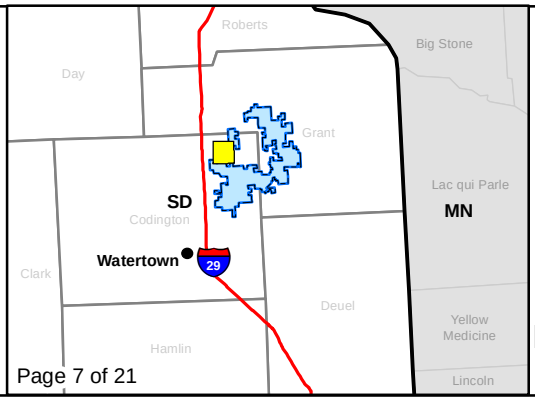
- Project Boundary
- County Boundary

Lease Status

- Leased, Signed
- Pending
- Under Option but Likely to Expire/Not Resign



Page 7 of 21

Kilometers
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Miles
0 0.25 0.5

Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community

Quadrangle: Still Lake NE (1970), Antelope Valley (1973), Still Lake SE (1970), South Shore (1973)

Township/Range: T119N, R52W, T119N, R51W

Codington County, South Dakota

Projection: NAD 1983 UTM Zone 14N

010176 SWCA ENVIRONMENTAL CONSULTANTS

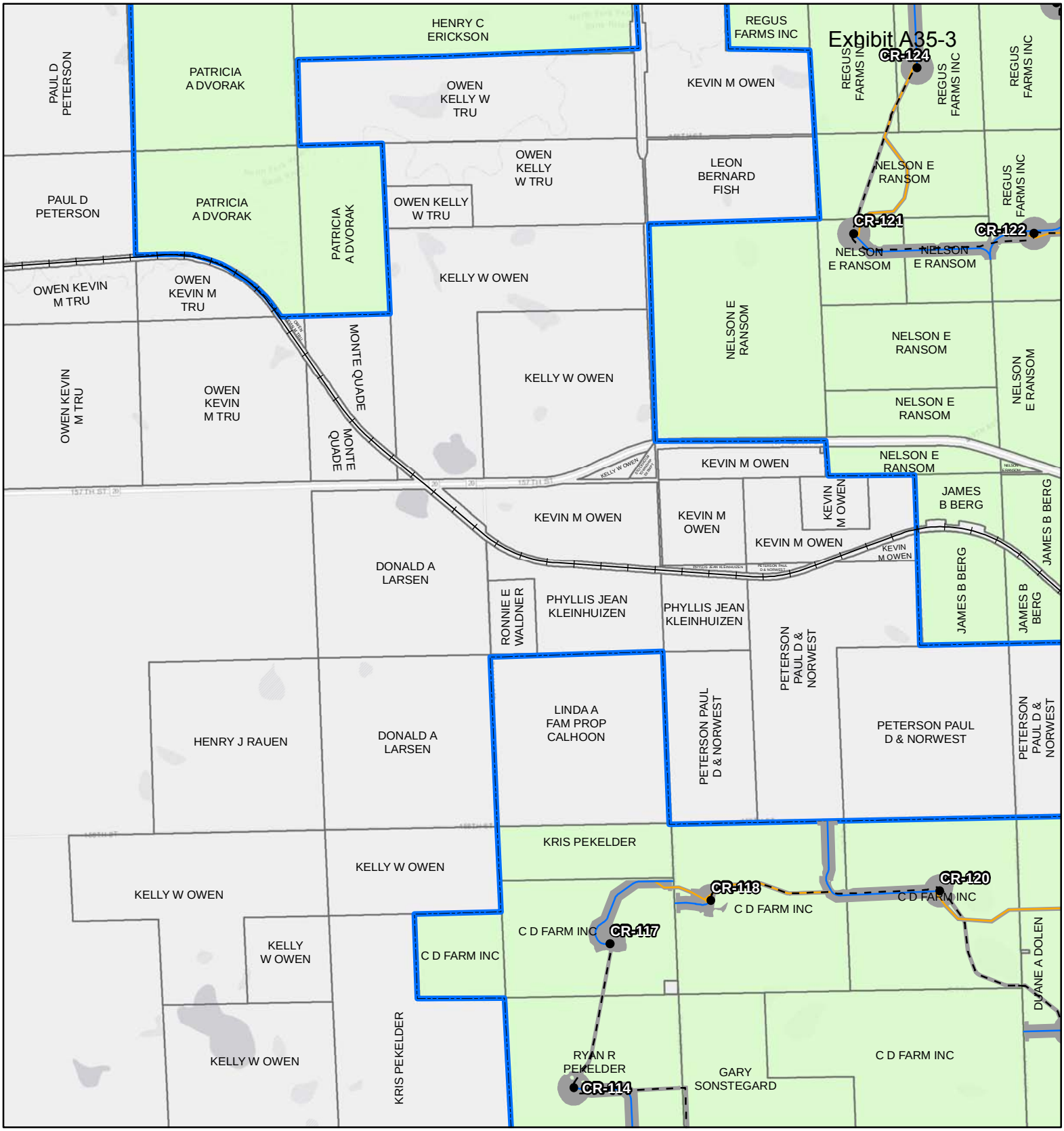

Figure 3a. Project Map

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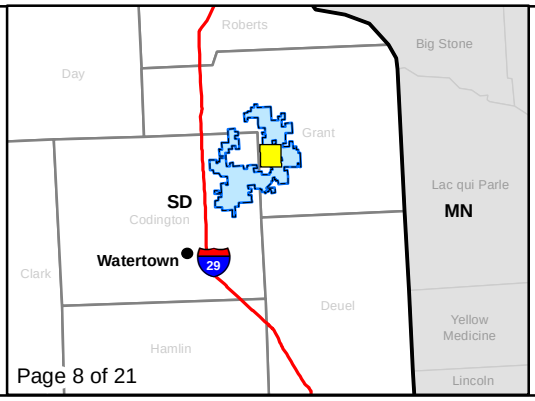

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Kilometers
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Miles
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Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community
Quadrangle: Stockholm (1973), Antelope Valley (1973), Twin Brooks (1973), South Shore (1973)
Township/Range: T119N, R50W

Grant County, South Dakota

010177

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Projection: NAD 1983 UTM Zone 14N

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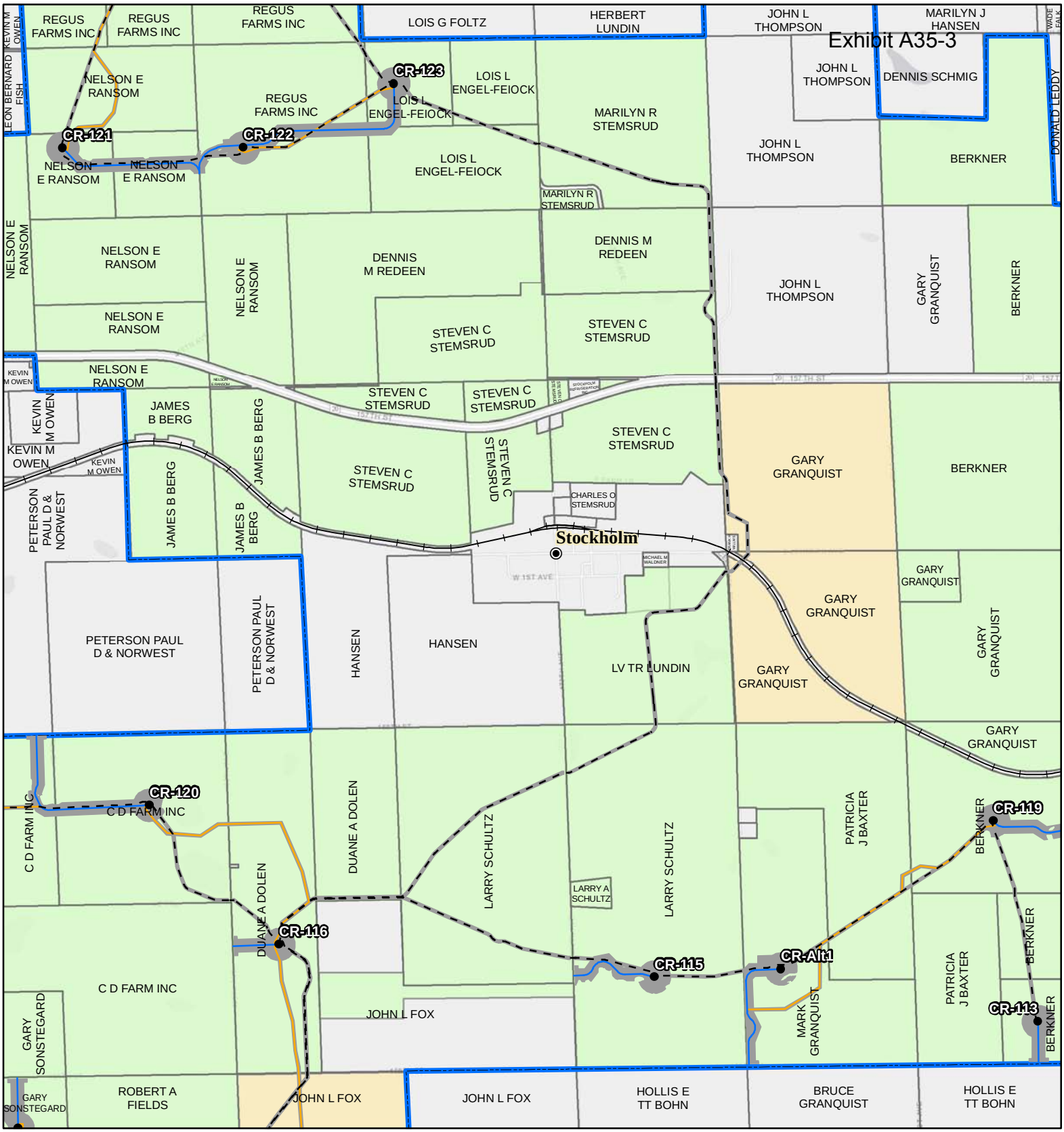

Figure 3a. Project Map

Crowned Ridge Wind Farm

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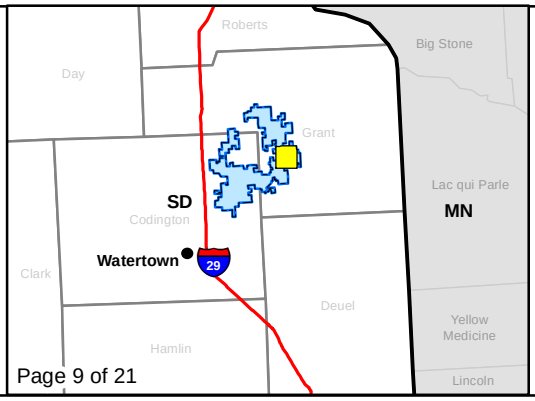

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Kilometers
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Miles
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Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community

Quadrangle: Stockholm (1973)

Township/Range: T119N, R50W

Grant County, South Dakota

Projection: NAD 1983 UTM Zone 14N

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Exhibit A35-3

MARIAN C ANDERSON
MARIAN C ANDERSON
JOHN L THOMPSON
MARILYN J HANSEN
MICHAEL R MAYER
LOIS G FOLTZ
HERBERT LUNDIN
JOHN L THOMPSON
WADE FALK
LOIS L ENGEL-FEIOCK
MARILYN R STEMSRUD
JOHN L THOMPSON
DENNIS SCHMIG
DONNIE LEDDY
DANIEL B LEDDY
JOHN L THOMPSON
BERKNER
DONALD LEDDY
DONALD LEDDY
DANIEL B LEDDY
LOIS L ENGEL-FEIOCK
MARILYN R STEMSRUD
DENNIS M REDEEN
DENNIS M REDEEN
JOHN L THOMPSON
GARY GRANQUIST
BERKNER
DONALD LEDDY
DANIEL B LEDDY
STEVEN C STEMSRUD
STEVEN C STEMSRUD
157TH ST
STEVEN C STEMSRUD
STEVEN C STEMSRUD
RODNEY L ZIEHL
WILLIAM L STREET
WILLIAM L STREET
CHARLES WOLLSCHLAGER
STEVEN C STEMSRUD
GARY GRANQUIST
BERKNER
BERKNER
CHARLES O STEMSRUD
Stockholm
MICHAEL M WALDNER
W 1ST AVE
GARY GRANQUIST
GARY GRANQUIST
SHANNON E BERG
SHANNON E BERG
GARY GRANQUIST
BERKNER
HANSEN
LV TR LUNDIN
GARY GRANQUIST
SHANNON E BERG
SHANNON E BERG
GARY GRANQUIST
BERKNER
ARDITH LARSON
PATRICIA J BAXTER
CR-119
BERKNER
BERKNER
ARDITH LARSON
LARRY SCHULTZ
LARRY SCHULTZ
LARRY A SCHULTZ
MARK GRANQUIST
PATRICIA J BAXTER
BERKNER
MARJORIE NOWICK
MARK D DORSETT
GERALD R LARSON
SCOTT ODONNELL
ARDITH LARSON

Figure 3a. Project Map

Crowned Ridge Wind Farm

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Lease Status

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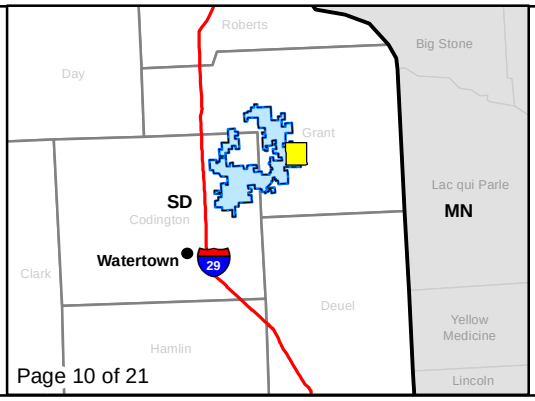

Kilometers
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Miles
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Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community
Quadrangle: Twin Brooks (1973), Stockholm (1973)
Township/Range: T119N, R50W, T119N, R49W
Grant County, South Dakota

Projection: NAD 1983 UTM Zone 14N

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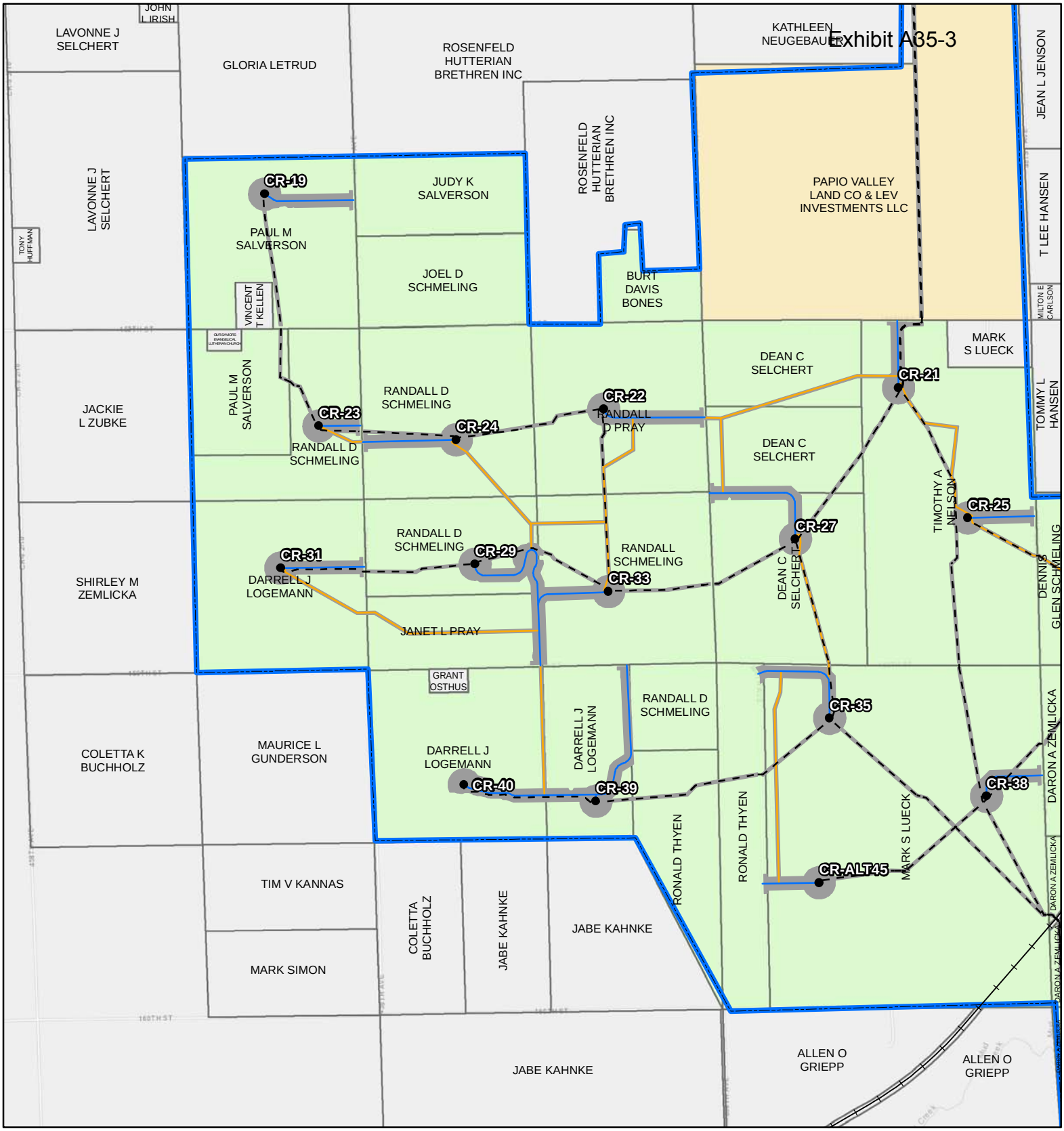
Exhibit A35-3



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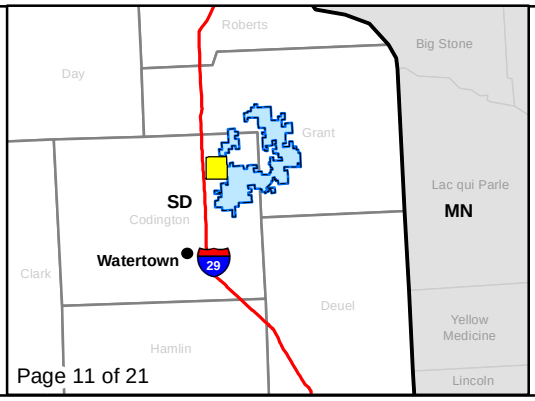

Page 11 of 21

Kilometers
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Miles
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Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community

Quadrangle: Still Lake SE (1970), South Shore (1973)

Township/Range: T119N, R52W, T119N, R51W, T118N, R52W, T118N, R51W

Codington County, South Dakota

Projection: NAD 1983 UTM Zone 14N

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Exhibit A35-3

T LEE HANSEN
DEAN C SELCHERT
DEAN C SELCHERT
TRAVIS WADSWORTH
MILTON E CARLSON
LONNIE LOWE
TOMMY L HANSEN
TIMOTHY A NELSON
TIMOTHY A NELSON
CR-20
LONNIE LOWE
JOYCE SNOOZY NOELDNER
KELLY W OWEN
DENNIS GLEN SCHMELING
CR-34
DONALD L SELCHERT
CR-30
CR-32
JAMES BESKOW
PATRICIA J HANTEN
JAMISON B JALBERT
JAMISON B JALBERT
CHARLES A NOELDNER
LYNN K WAEGE
DARON A ZEMLICKA
CR-36
DARON A ZEMLICKA
CHARLES A NOELDNER
LYNN K WAEGE
CR-ALT42
MICHELLE OFARRELL CHRIS NOELDNER
CHARLES A NOELDNER
MARK S LUECK
DARON A ZEMLICKA
DARON A ZEMLICKA
DARON A ZEMLICKA
DAVID W ELLINGSON
BRENT MAGAARD
SCHLEUSNER DAIRY INC.
CR-ALT47
DARON A ZEMLICKA
LEON C ZEMLICKA
MICHELLE OFARRELL CHRIS NOELDNER
CR-50
LOREN DAVID
ALLEN O GRIEPP
SHIRLEY M ZEMLICKA
WESLEY J SNOOZY
CR-53
CR-55
GENE P ZEMLICKA
MARIA ZEMLICKA
MICHELLE OFARRELL CHRIS NOELDNER
FRITZ HINN
ALBERT J HOWEY

Figure 3a. Project Map

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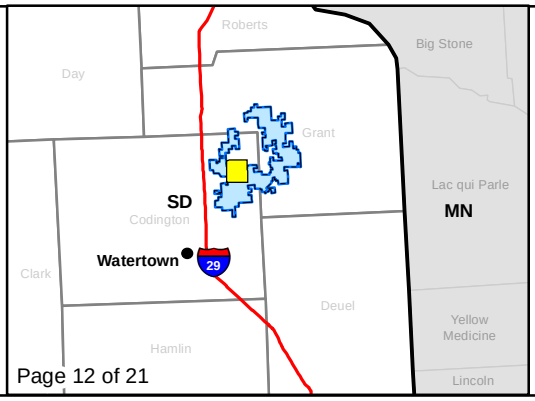

Kilometers
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Miles
0 0.25 0.5

Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community
Quadrangle: South Shore (1973)

Township/Range: T119N, R51W, T118N, R51W
Codington County, South Dakota

Projection: NAD 1983 UTM Zone 14N

SWCA ENVIRONMENTAL CONSULTANTS

Exhibit A35-3

KELLY W OWEN
LONNIE L LOWE
STATE OF SD DEPT GAME FISH & PARKS
BRANDON L JOHNSON
KELLY W OWEN
KELLY W OWEN
KELLY W OWEN
KELLY W OWEN
KRIS PEKELDER
LYNN K WAEGE
CR-28
MARK A ZIMMERMAN
CR-26
MARK A ZIMMERMAN
Codington County
Grant County
PATRICIA A RADERSCHADT
PATRICIA A RADERSCHADT
KEVIN M OWEN
PHYLLIS JEAN KLEINHUIZEN
PHYLLIS JEAN KLEINHUIZEN
CHARLES A NOELDNER
LEWIS RADERSCHADT
LEWIS RADERSCHADT
CR-37
LYNN K WAEGE
CR-41
SCHLEUSNER DAIRY INC
CR-43
DAVID STORMO
CR-46
GORDON B STORMO
CR-44
DOUGLAS STORMO
KEVIN KRAKOW
KEVIN KRAKOW
KEVIN KRAKOW
BRENT MAGAARD
ROBERT J WELDER
MARY B RUHR
CR-107
MARY M KRAKOW
CR-48
LOREN DAVID
CR-49
DARON A ZEMLICKA
CR-51
LOREN DAVID
CR-52
ELWOOD C PHELPS
TIMOTHY J LINDGREN
TIMOTHY J LINDGREN
LYNN K WAEGE
WESLEY J SNOOZY
CR-54
MARY B RUHR
CR-102
TYLER GRABOW
CR-57
CR-56
ALBERT J HOWEY
DEWEY L ZEMLICKA RAY J MUELLER
DEWEY L ZEMLICKA RAY J MUELLER
JERRY KRAUSE
CR-58
TYLER L GRABOW
CR-59
DOUGLAS E WOLLSCHLAGER
DOUGLAS E WOLLSCHLAGER

Figure 3a. Project Map

Crowned Ridge Wind Farm

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Lease Status

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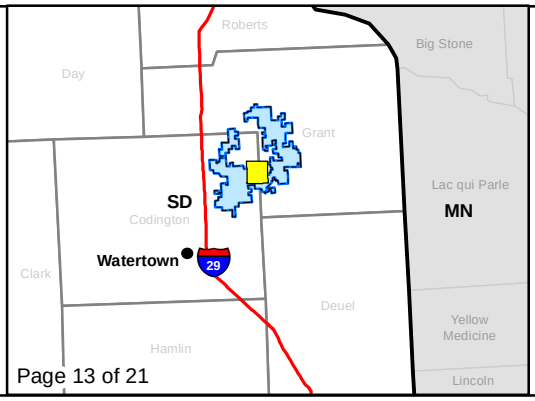

Kilometers
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Miles
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Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community
Quadrangle: South Shore (1973), Stockholm (1973)
Township/Range: T119N, R51W, T119N, R50W, T118N, R51W, T118N, R50W
Codington and Grant Counties, South Dakota

Projection: NAD 1983 UTM Zone 14N

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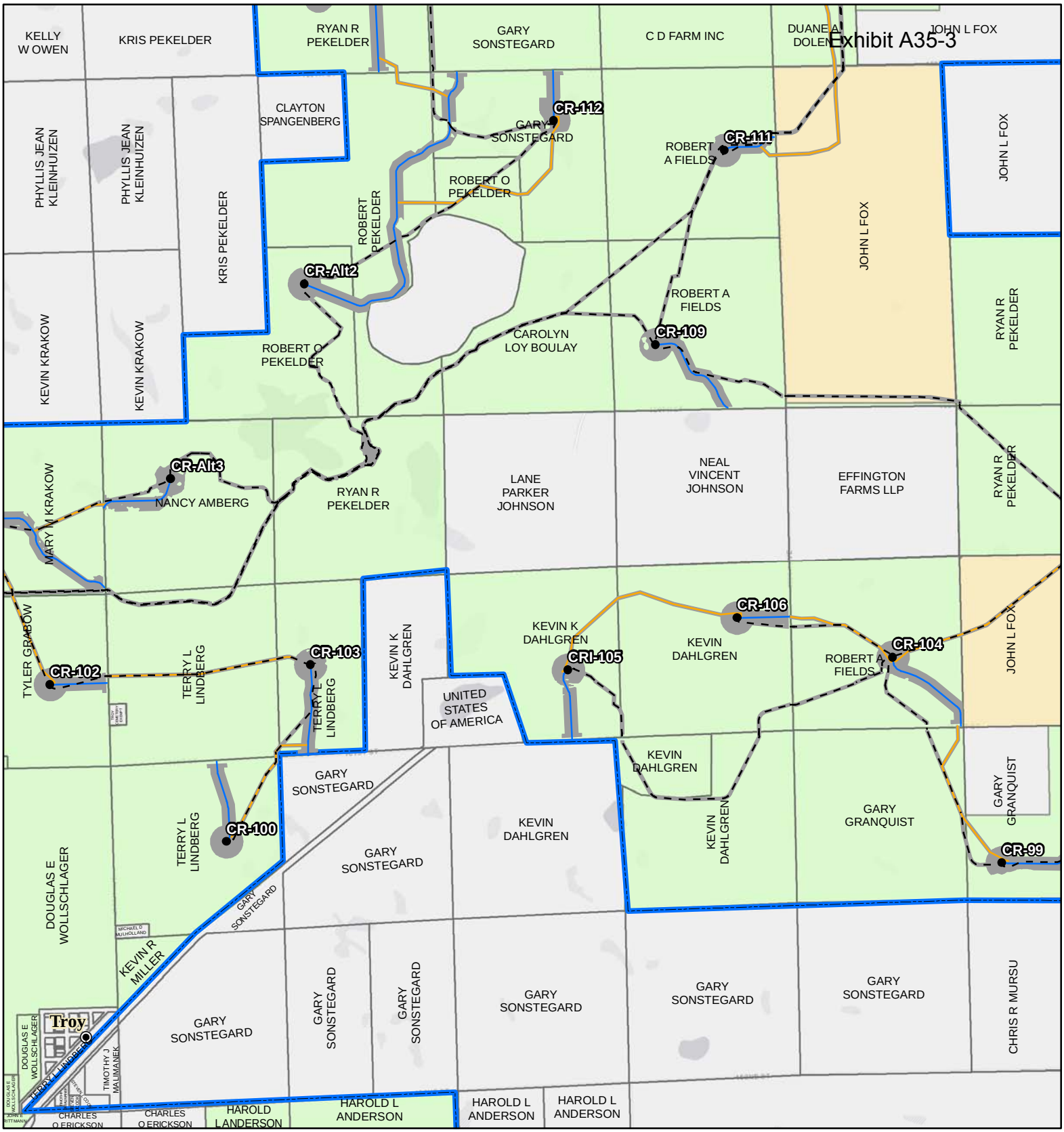
Exhibit A35-3



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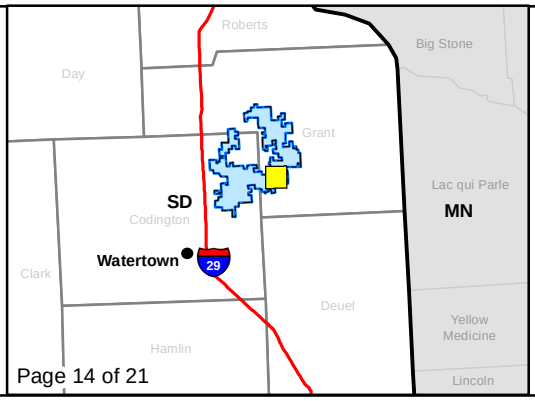

Kilometers
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Miles
0 0.25 0.5

Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community
Quadrangle: Stockholm (1973)

Township/Range: T119N, R50W, T118N, R50W
Grant County, South Dakota

Projection: NAD 1983 UTM Zone 14N

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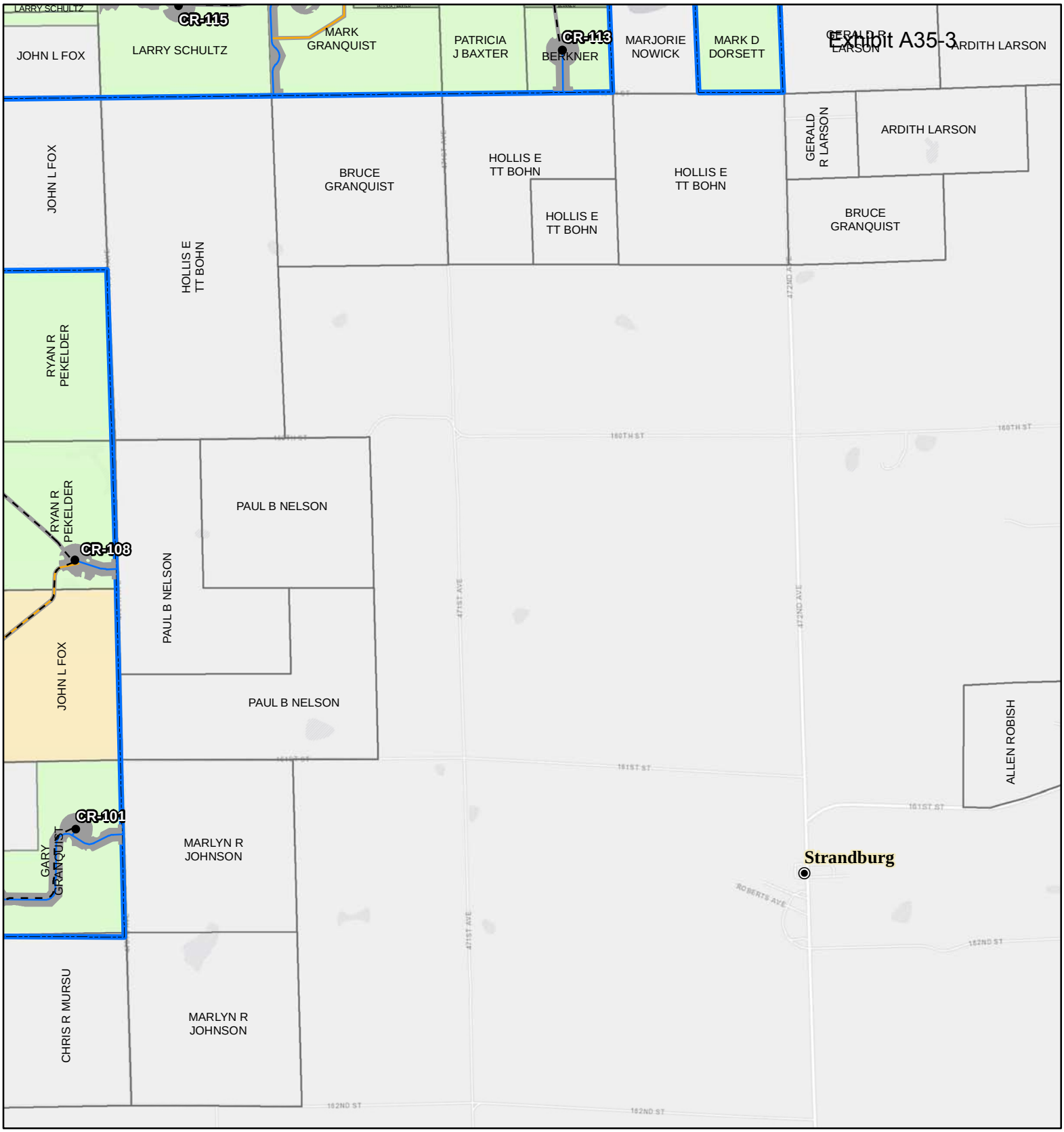
Exhibit A35-3



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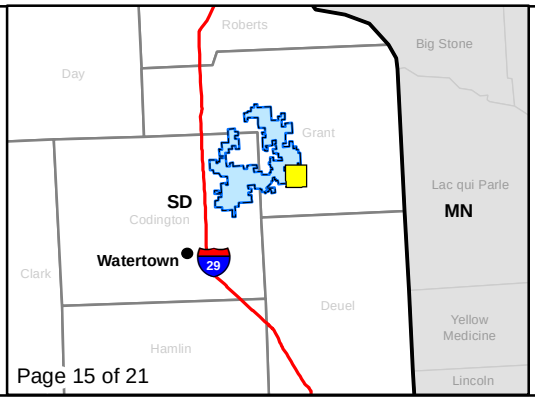

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Miles

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Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community

Quadrangle: Stockholm (1973)

Township/Range: T119N, R50W, T118N, R50W

Grant County, South Dakota

Projection: NAD 1983 UTM Zone 14N

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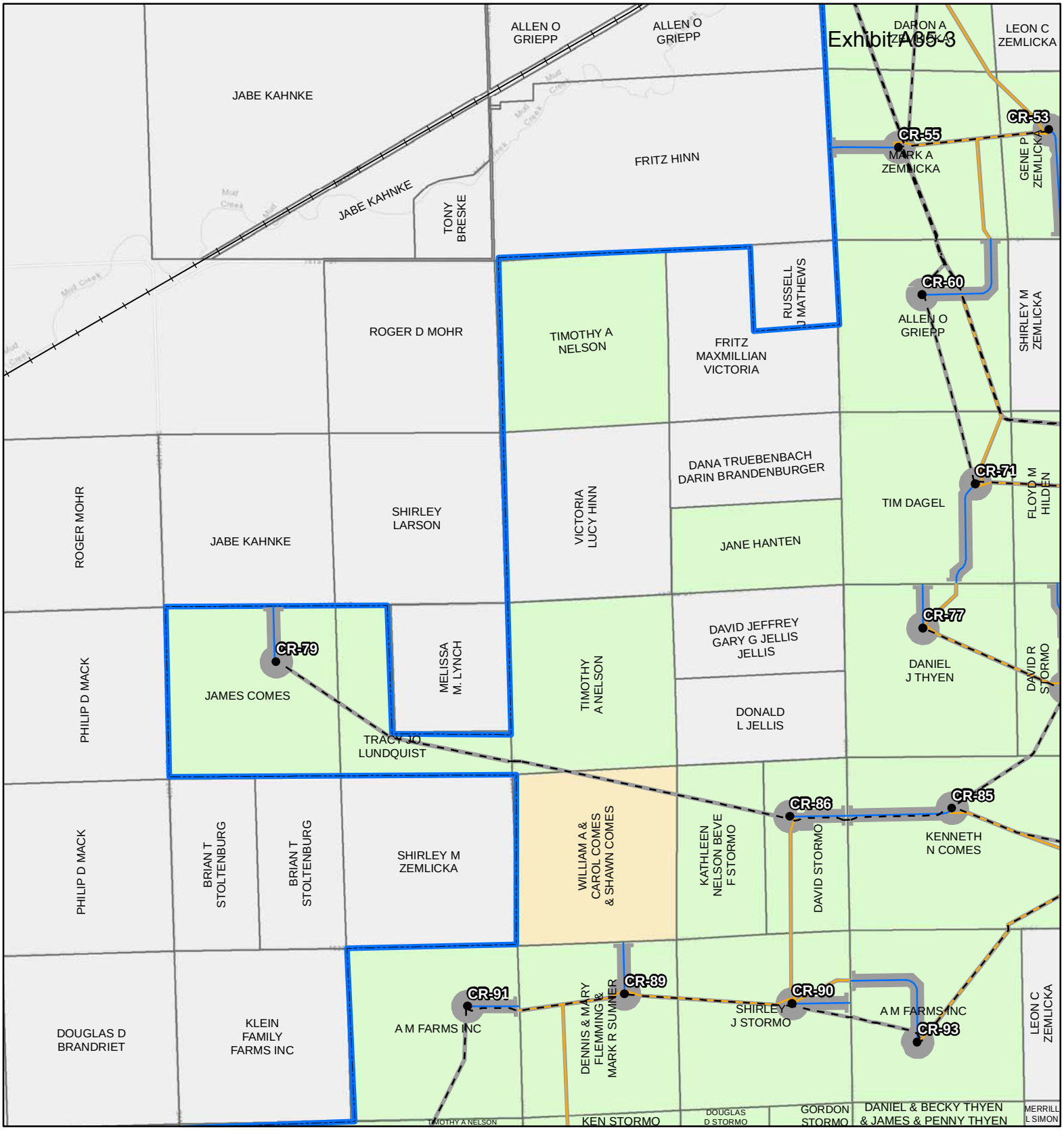

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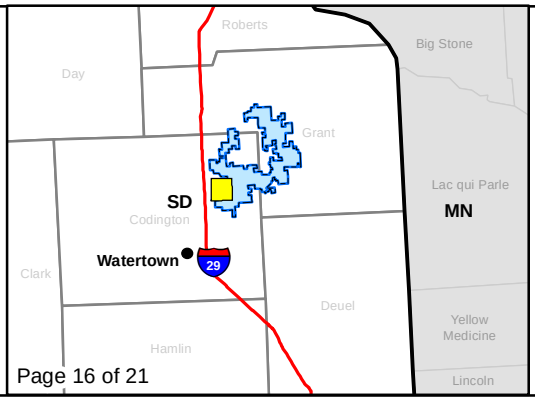

Kilometers
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Miles
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Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community
Quadrangle: Still Lake SE (1970), South Shore (1973)
Township/Range: T118N, R52W, T118N, R51W
Codington County, South Dakota

Projection: NAD 1983 UTM Zone 14N

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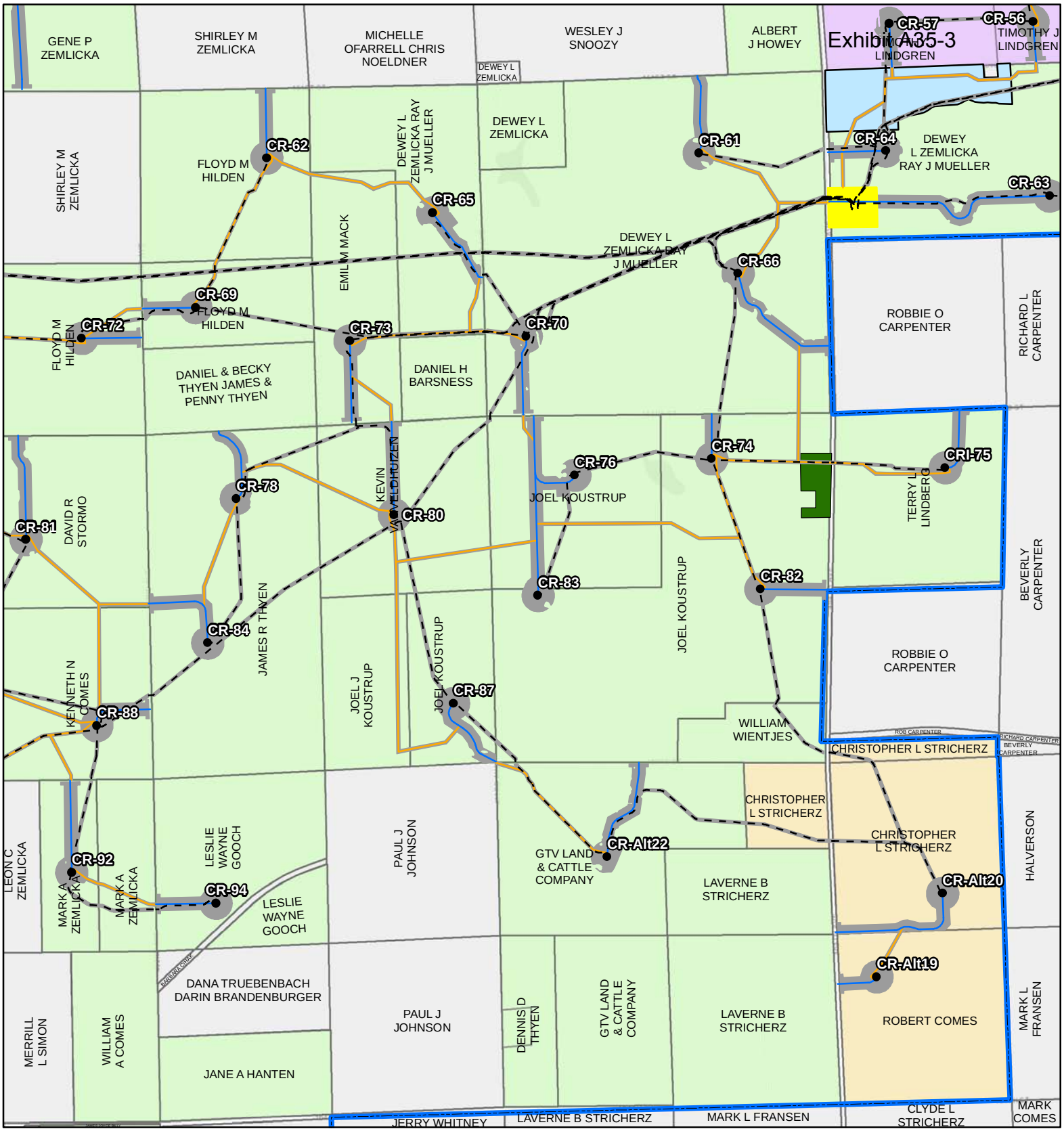

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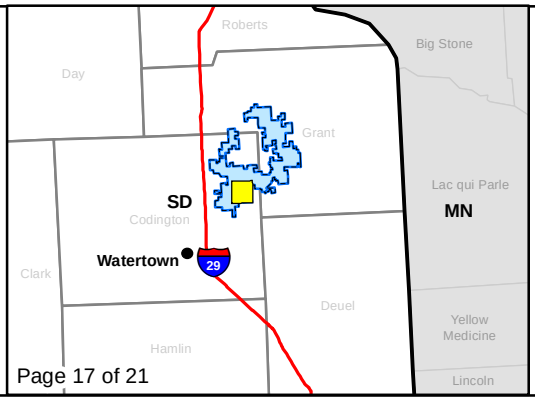

Kilometers
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Miles
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Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community
Quadrangle: South Shore (1973)

Township/Range: T118N, R51W

Codington County, South Dakota

Projection: NAD 1983 UTM Zone 14N

SWCA ENVIRONMENTAL CONSULTANTS

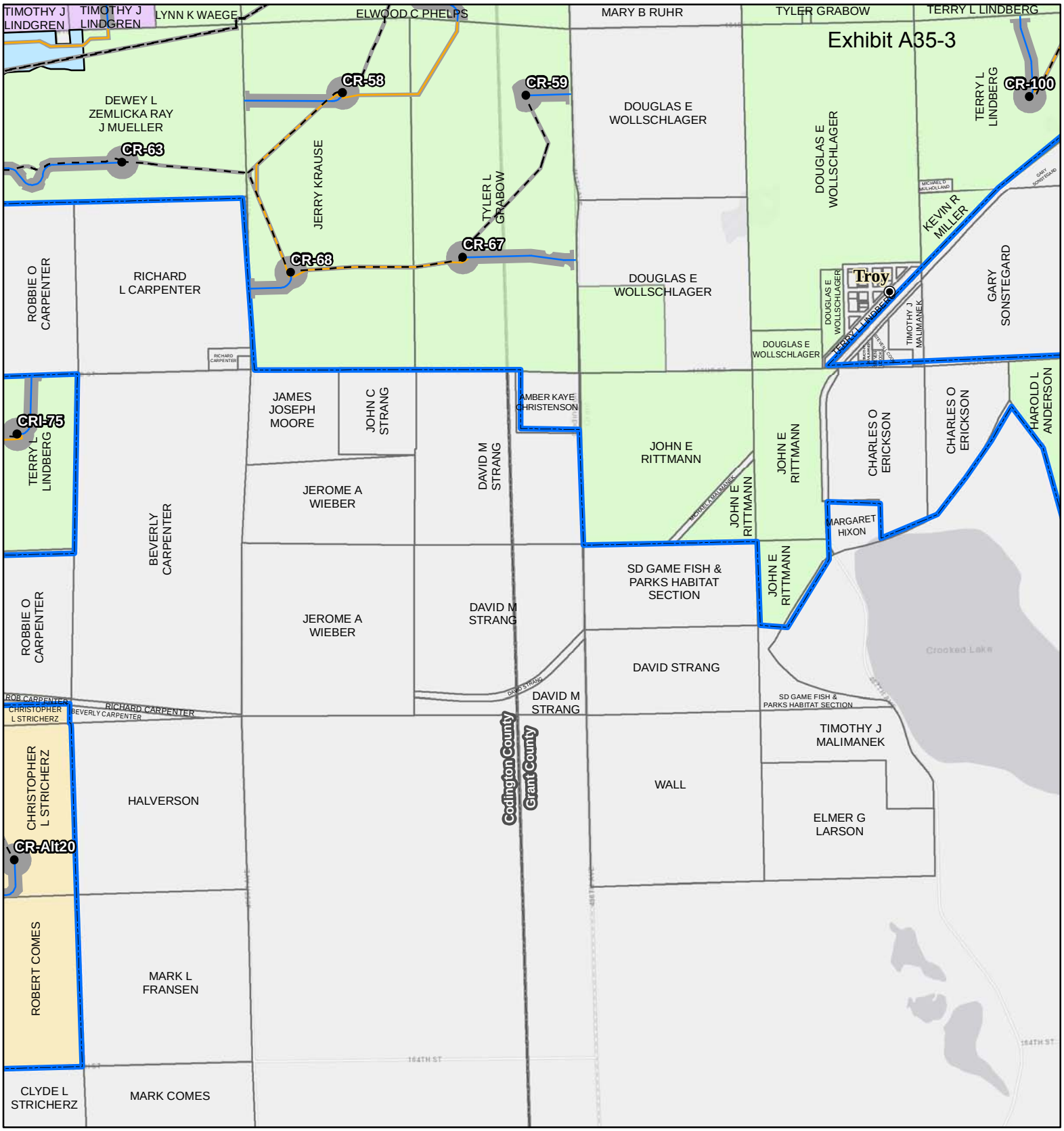

Figure 3a. Project Map

Crowned Ridge Wind Farm

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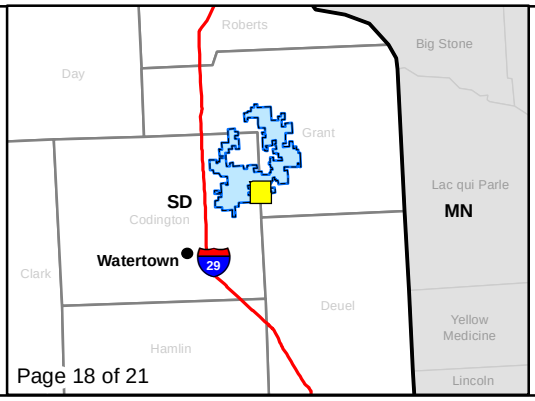

Page 18 of 21

Kilometers
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Miles
0 0.25 0.5

Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community
Quadrangle: South Shore (1973), Stockholm (1973)
Township/Range: T118N, R51W, T118N, R50W
Codington and Grant Counties, South Dakota

010187 Page 000041

Projection: NAD 1983 UTM Zone 14N

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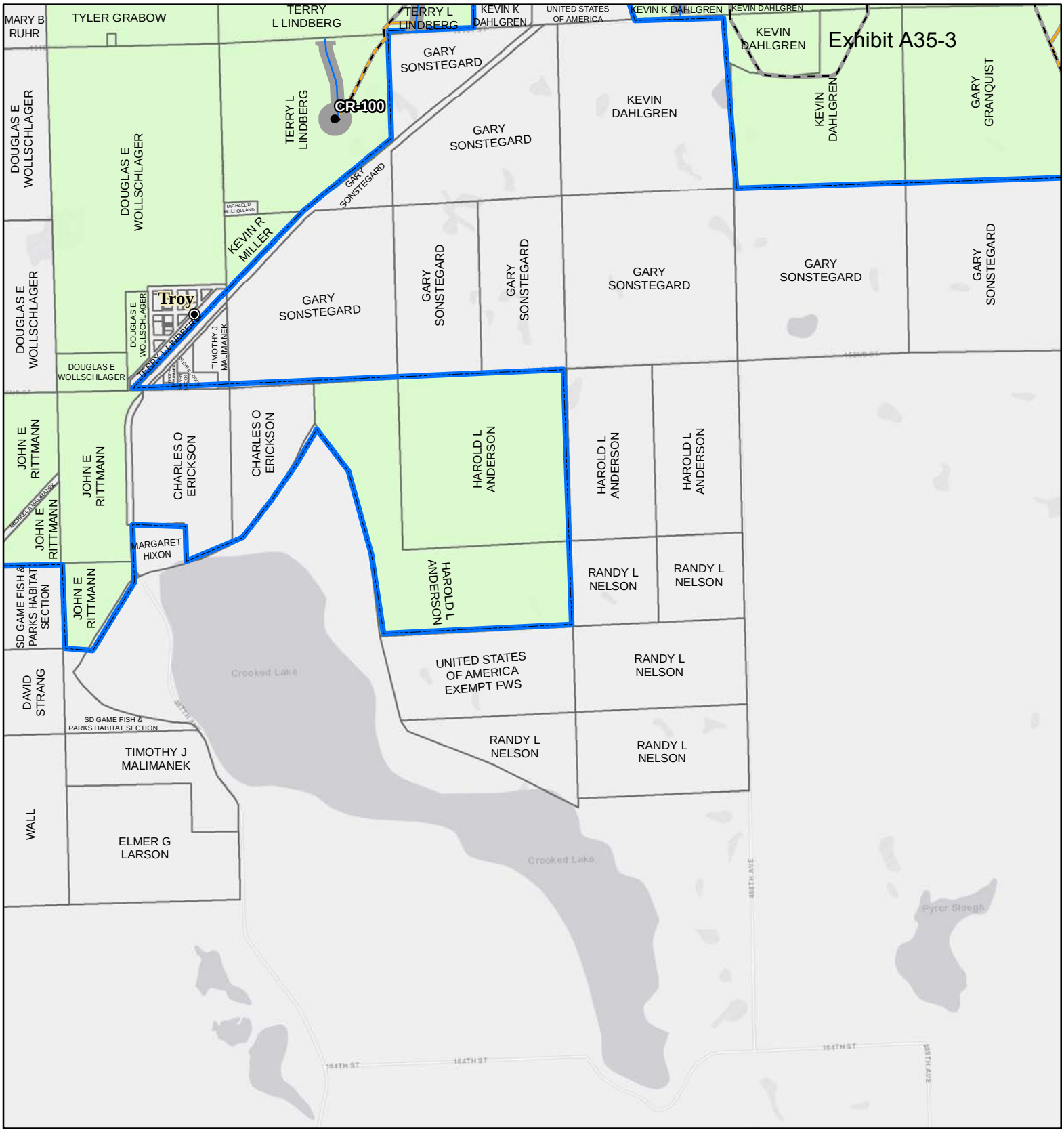

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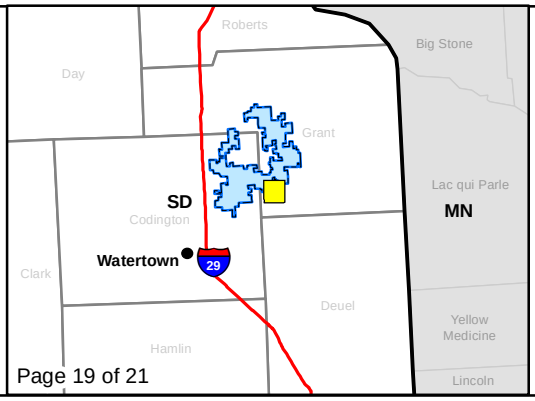
- Pending
- Under Option but Likely to Expire/Not Resign



Kilometers
0 0.5 1

Miles
0 0.25 0.5

Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community
Quadrangle: South Shore (1973), Stockholm (1973)
Township/Range: T118N, R50W

Grant County, South Dakota

Projection: NAD 1983 UTM Zone 14N

SWCA ENVIRONMENTAL CONSULTANTS

Exhibit A35-3

DOUGLAS D BRANDRIET
KLEIN FAMILY FARMS INC
A M FARMS INC
DENNIS & MARY FLEMMING & MARK R SUMNER
SHIRLEY J STORMO
A M FARMS INC
LEON C ZEMLICKA
MARK A ZEMLICKA
MARY ANN BRENNAN
CR-95
CR-96
CR-97
CR-98
TIMOTHY A NELSON
KEN STORMO
BRADFORD J HOWELL
DOUGLAS D STORMO
GORDON STORMO
DANIEL & BECKY THYEN & JAMES & PENNY THYEN
MERRILL L SIMON
WILLIAM A COMES
KLEIN FAMILY FARMS INC
BRET HENRICKS
TAECKER
A M FARMS INC
A M FARMS INC
JAMES N COMES
JAMES JOYCE BILLY
JAMES JOYCE BILLY
LABOLT FARMERS GRAIN COMPANY
JAMES JOYCE BILLY
JAMES COMES
JAMES COMES
JAMES COMES
JAMES COMES
JAMES COMES
JAMES COMES
JAMES COMES
JAMES N COMES
AMBER LEIGH JESKE
KLEIN FAMILY FARMS INC
JASON WHITTED
DANIEL & BECKY THYEN & JAMES & PENNY THYEN
THYEN FARMS
RICHARD E HEYDUK
JAMES COMES
JAMES COMES
KLEIN FAMILY FARMS INC
KLEIN FAMILY FARMS INC
KLEIN FAMILY FARMS INC
DOUGLAS D BRANDRIET
BRIAN COMES
DOUGLAS BRANDRIET
DOUGLAS D BRANDRIET
DAVID J THYEN
166TH ST
166TH ST
459TH AVE
460TH AVE
MARY STRICHERZ
THOMAS J STRICHERZ
THYEN FARMS
A M FARMS INC

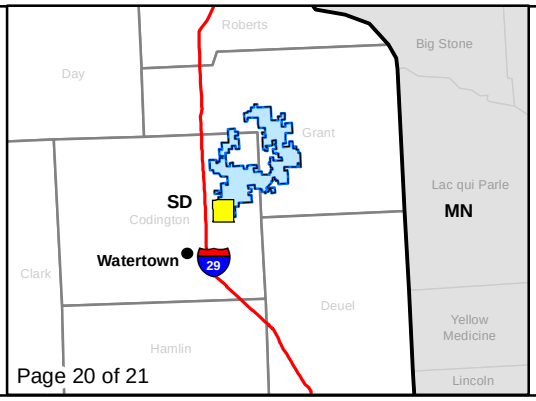
Figure 3a. Project Map

Crowned Ridge Wind Farm

- Turbine
- MET Tower
- City
- Access Road
- Collector Line
- Crane Path
- Railroad
- O&M Facility/ Substation
- Batch Plant
- Laydown Yard
- Construction Easement
- Parcel Boundary
- Project Boundary
- County Boundary

Lease Status

- Leased, Signed
- Pending
- Under Option but Likely to Expire/Not Resign



Kilometers
0 0.5 1

Miles
0 0.25 0.5

Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community
Quadrangle: Still Lake SE (1970), Watertown East (1969), South Shore (1973), Kranzburg (1970)
Township/Range: T118N, R52W, T118N, R51W, T117N, R52W, T117N, R51W
Codington County, South Dakota

Projection: NAD 1983 UTM Zone 14N

SWCA ENVIRONMENTAL CONSULTANTS

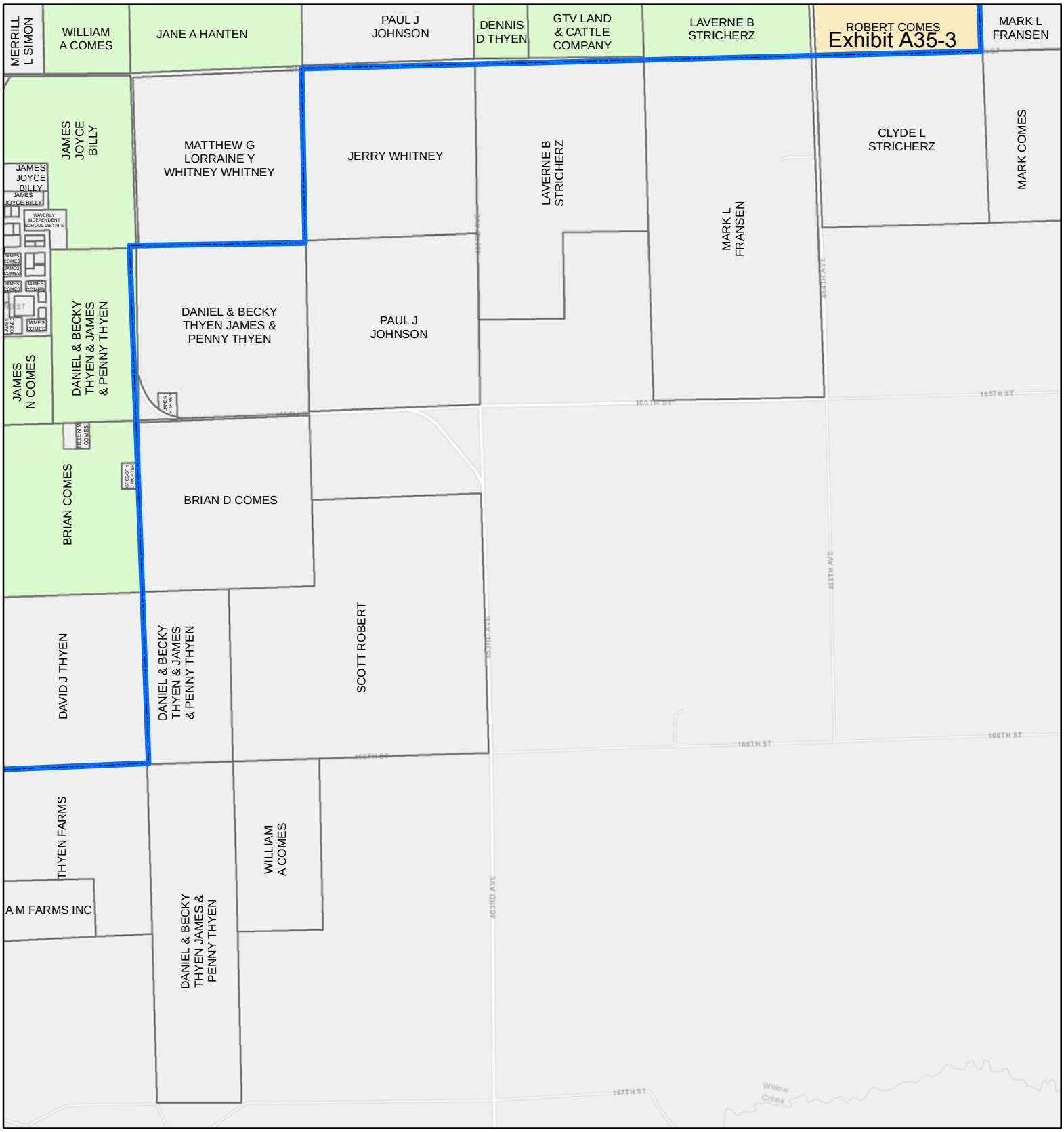


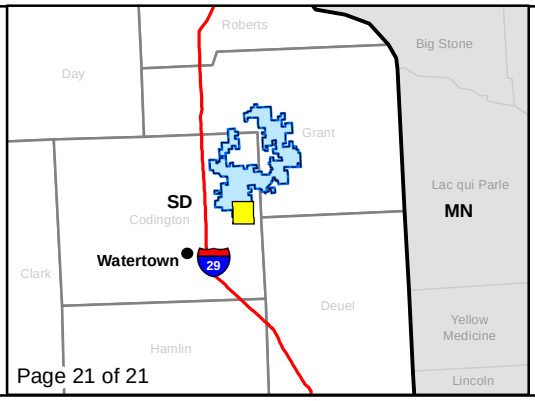
Figure 3a. Project Map

Crowned Ridge Wind Farm

- Turbine
- MET Tower
- City
- Access Road
- Collector Line
- Crane Path
- Railroad
- O&M Facility/ Substation
- Batch Plant
- Laydown Yard
- Construction Easement
- Parcel Boundary
- Project Boundary
- County Boundary

Lease Status

- Leased, Signed
- Pending
- Under Option but Likely to Expire/Not Resign



Kilometers
0 0.5 1

Miles
0 0.25 0.5

Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community
Quadrangle: South Shore (1973), Kranzburg (1970)
Township/Range: T118N, R51W, T117N, R51W
Codington County, South Dakota

Projection: NAD 1983 UTM Zone 14N

SWCA ENVIRONMENTAL CONSULTANTS

Exhibit A35-4

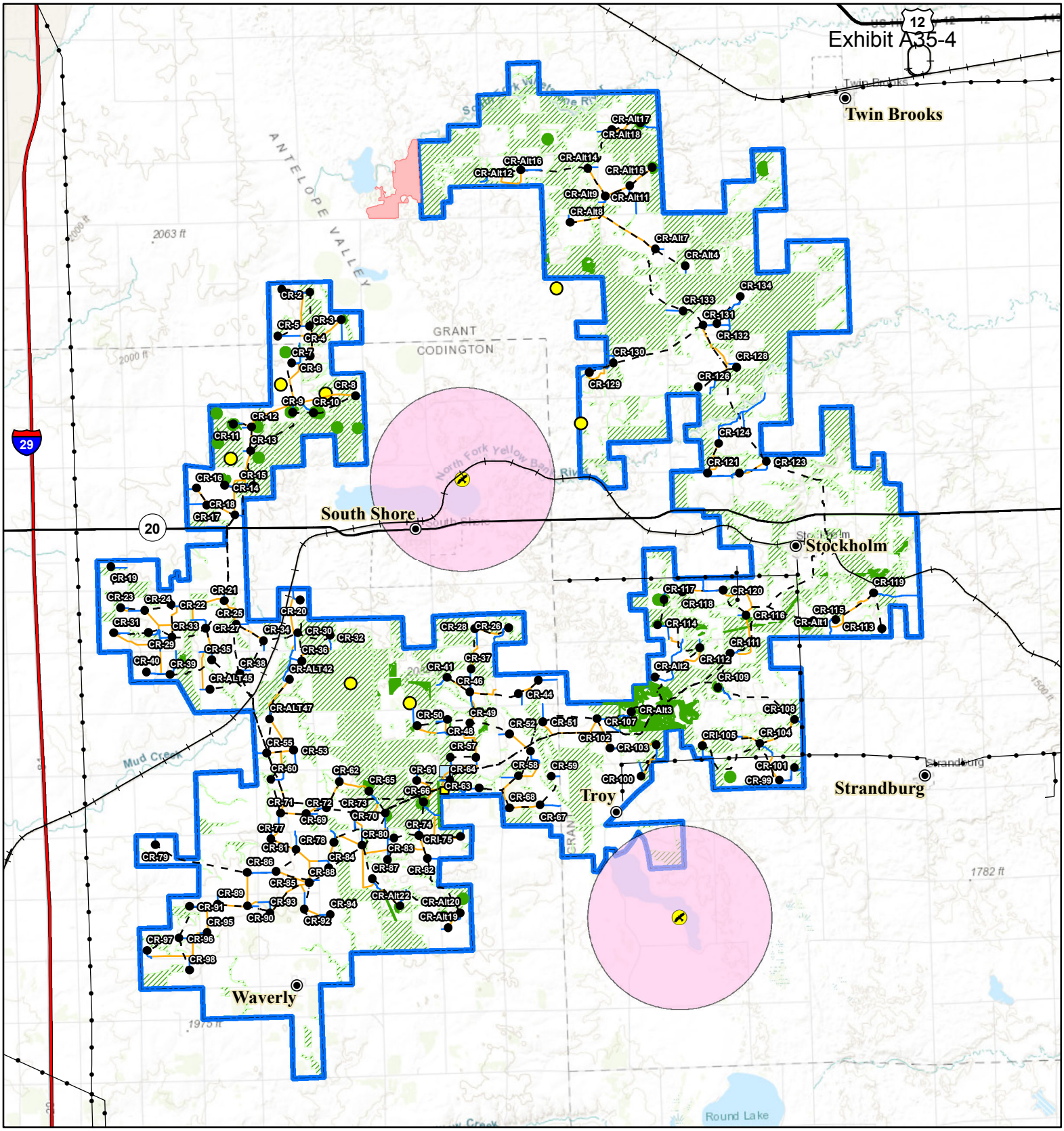


Figure 6. Environmental Constraints

Crowned Ridge Wind Farm

- Bald Eagle Nest Location
- Turbine
- Lek Location
- City
- Access Road
- Collector Line
- Crane Path
- Electrical Line
- Railroad
- Interstate Highway
- U.S. Highway
- State Highway
- O&M Facility/ Substation
- Laydown Yard
- Field Assessed Dakota Skipper Habitat
- 1.5-mile Bald Eagle Nest Buffer
- USFWS Critical Habitat
- Undisturbed Native Grasslands (Bauman 2013)
- Project Boundary

Kilometers: 0 5 10

Miles: 0 2.5 5

N W E S

Base Map: World Topographic Map
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community
Codington and Grant Counties, South Dakota

Projection: NAD 1983 UTM Zone 14N

010191

SWCA ENVIRONMENTAL CONSULTANTS

Exhibit A35-5

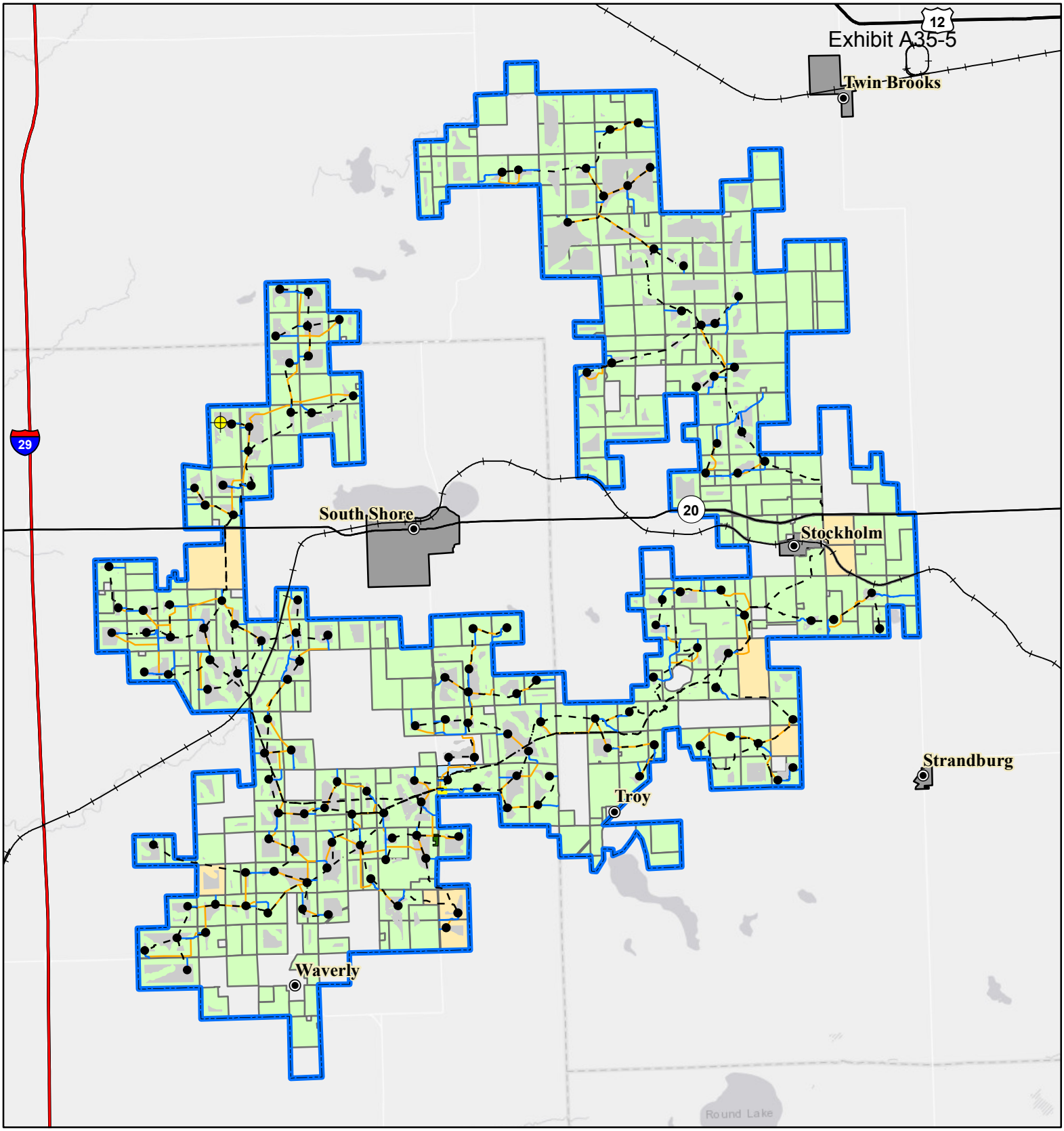


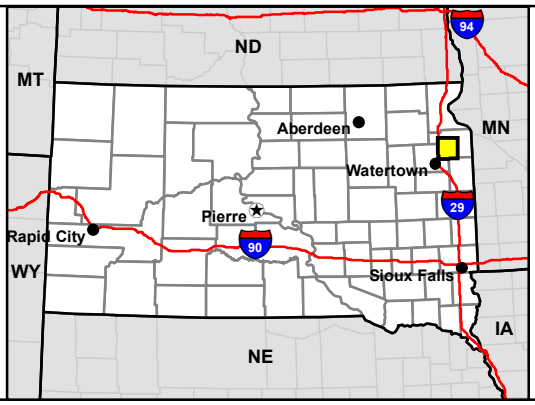
Figure 7. Constraints Map

Crowned Ridge Wind Farm

- MET Tower
- Turbine
- City
- Railroad
- Access Road
- Collector Line
- Crane Path
- Interstate Highway
- U.S. Highway
- State Highway
- Batch Plant
- Laydown Yard
- O & M Facility/ Substation
- Available Land
- Town Boundary
- Project Boundary

Lease Status

- Leased, Signed
- Pending Approval



Kilometers
0 2.5 5

Miles
0 2.5 5

Base Map: World Light Gray Canvas Base
Sources: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community
Codington and Grant Counties, South Dakota

010192 Page 000001

Projection: NAD 1983 UTM Zone 14N

SWCA ENVIRONMENTAL CONSULTANTS

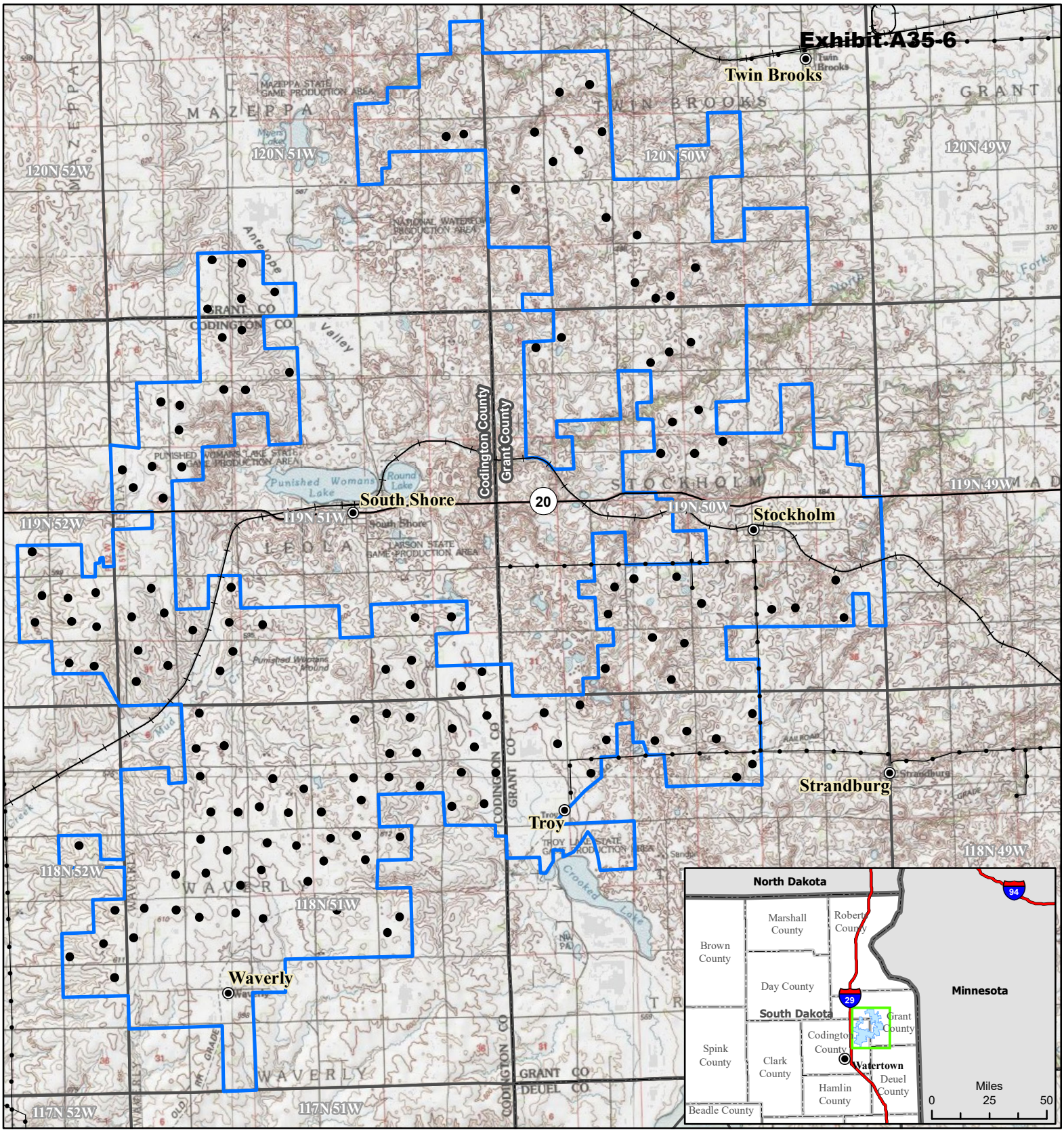


Figure 8. Topographic Map

Crowned Ridge Wind Farm

- Turbine
- City
- Railroad
- Electrical Line
- State Highway
- Project Boundary
- County Boundary
- Township/Range Boundary

Kilometers: 0 – 5 – 10

Miles: 0 – 2.5 – 5

Base Map: USGS 7.5' Topographic Map
Source: Copyright: ©2014 National Geographic Society, i-cubed
Codington and Grant Counties, South Dakota

Projection: NAD 1983 UTM Zone 14N

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SWCA ENVIRONMENTAL CONSULTANTS

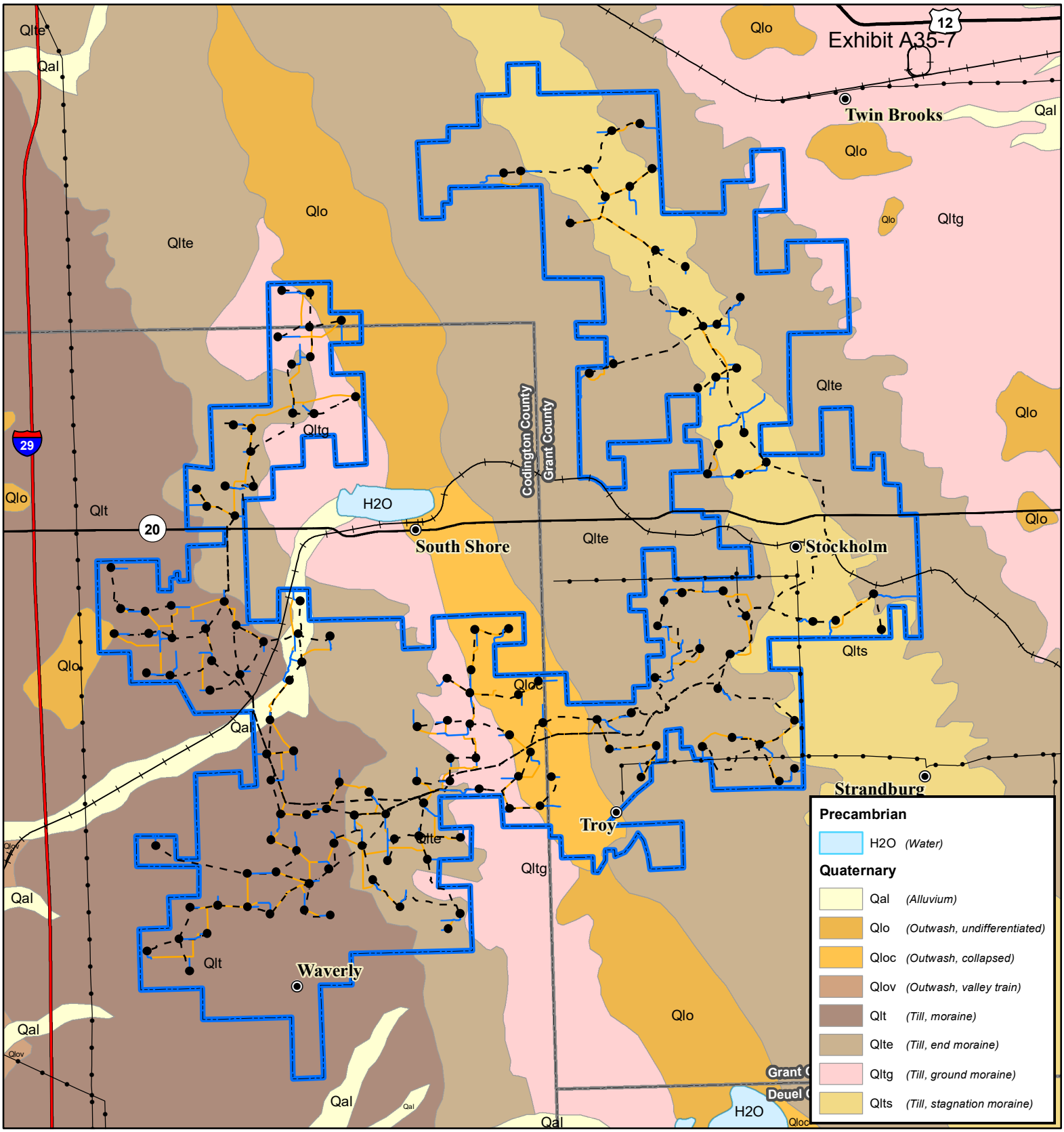


Figure 9a. Surficial Geology

Crowned Ridge Wind Farm

City
Turbine
Access Road
Collector Line
Crane Path
Electrical Line
Railroad
Interstate Highway
U.S. Highway
State Highway
Project Boundary
County Boundary

Kilometers: 0 5 10

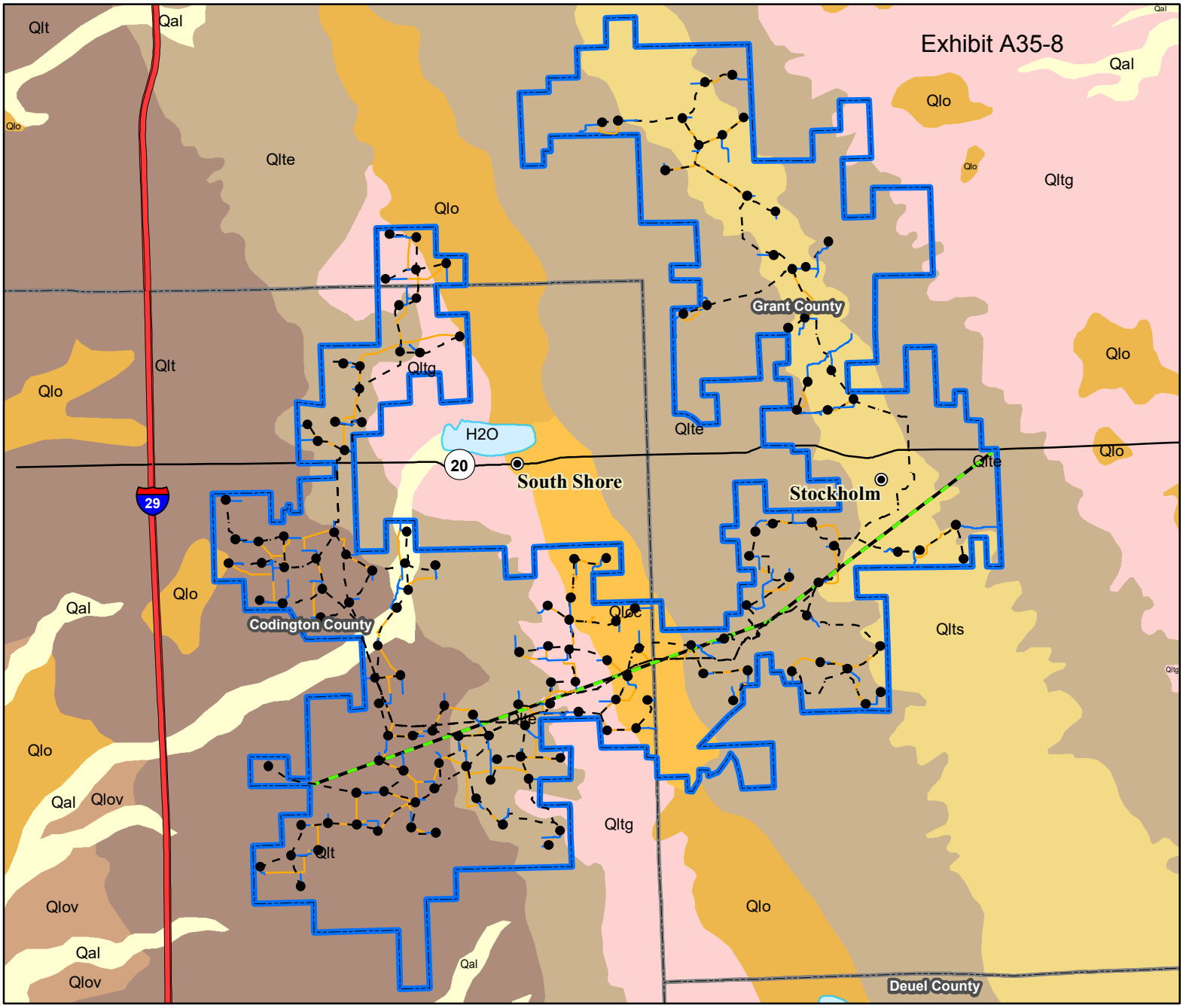
Miles: 0 2.5 5

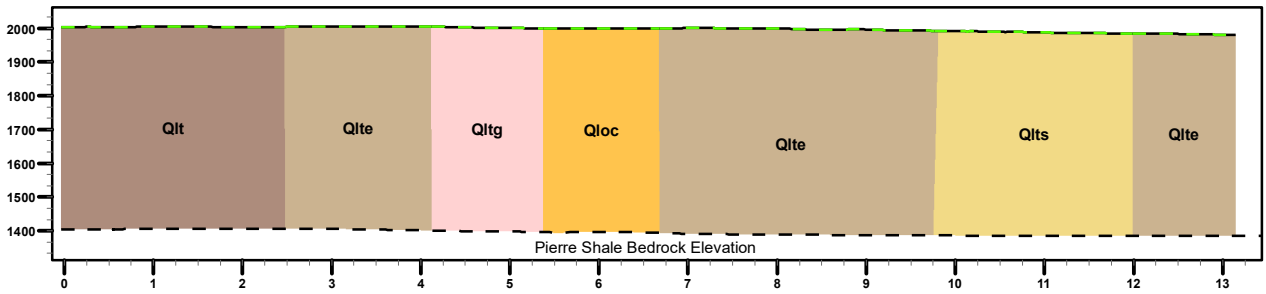
N W E S

Base Map: Surficial Geology
Source: South Dakota Geological Survey via
State of South Dakota GIS
Codington and Grant Counties, South Dakota

Projection: NAD 1983 UTM Zone 14N

SWCA ENVIRONMENTAL CONSULTANTS





*Vertical axis in feet above sea level; Horizontal axis in miles

Figure 9b. Geology Cross Sections

Crowned Ridge Wind Farm

- City
- Turbine
- Access Road
- Collector Line
- Crane Path
- Cross Section
- Interstate Highway
- State Highway
- Project Boundary
- County Boundary

Surficial Geology

Precambrian

- H2O *(Water)*

Quaternary

- Qal *(Alluvium)*
- Qlo *(Outwash, undifferentiated)*
- Qloc *(Outwash, collapsed)*
- Qlov *(Outwash, valley train)*
- Qlt *(Till, moraine)*
- Qlte *(Till, end moraine)*
- Qltg *(Till, ground moraine)*
- Qlts *(Till, stagnation moraine)*

Kilometers: 0 – 5 – 10

Miles: 0 – 2.5 – 5

N W E S

Base Map: Surficial Geology
Source: South Dakota Geological Survey via
State of South Dakota GIS
Codington and Grant Counties, South Dakota

Projection: NAD 1983 UTM Zone 14N

SWCA ENVIRONMENTAL CONSULTANTS

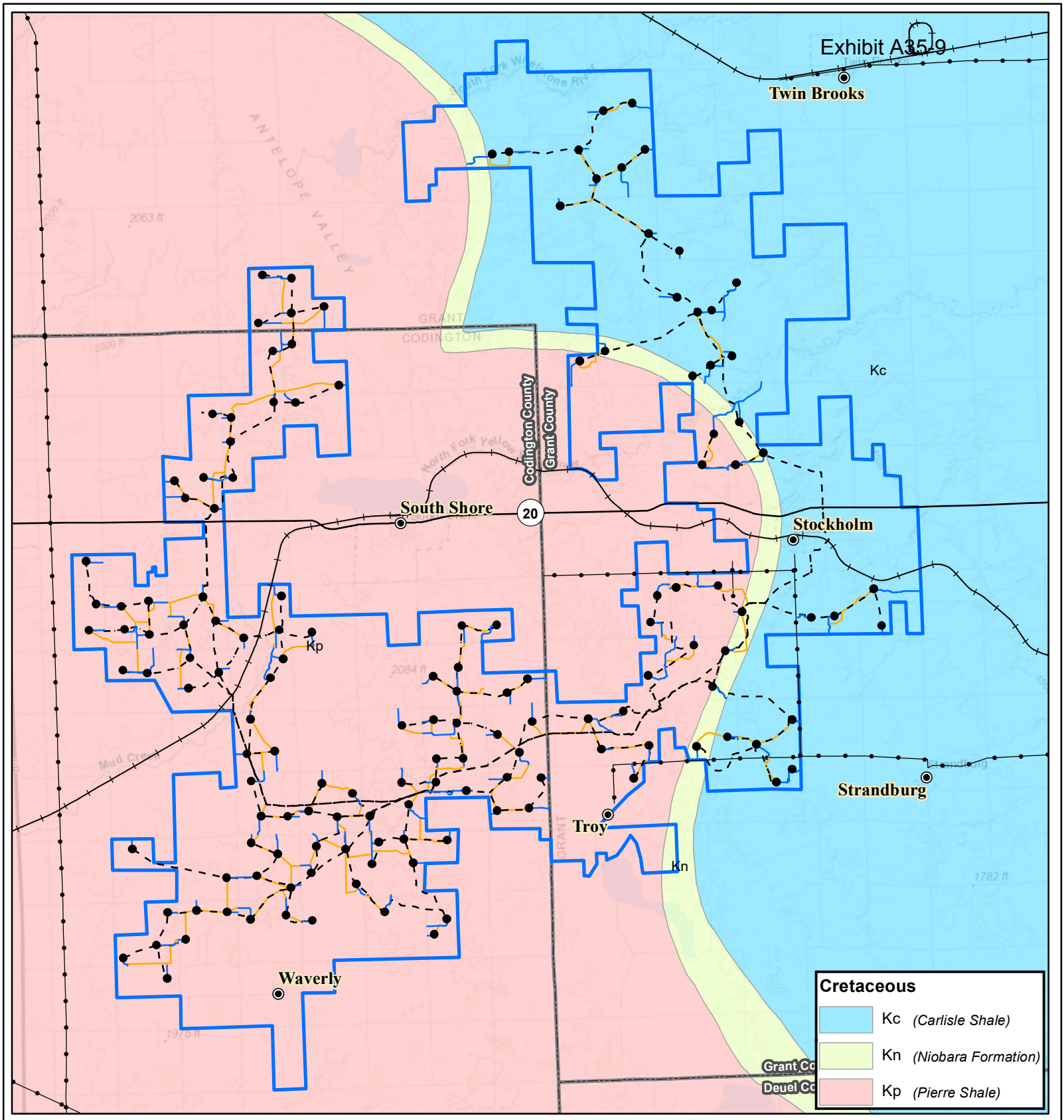


Figure 10. Bedrock Geology

Crowned Ridge Wind Farm

City
Turbine
Access Road
Collector Line
Crane Path
Railroad
Electrical Line
State Highway
Project Boundary
County Boundary

Kilometers
0 5 10

Miles
0 2.5 5

N W E S

Base Map: World Topographic Map
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community
Codington and Grant Counties, South Dakota

Projection: NAD 1983 UTM Zone 14N

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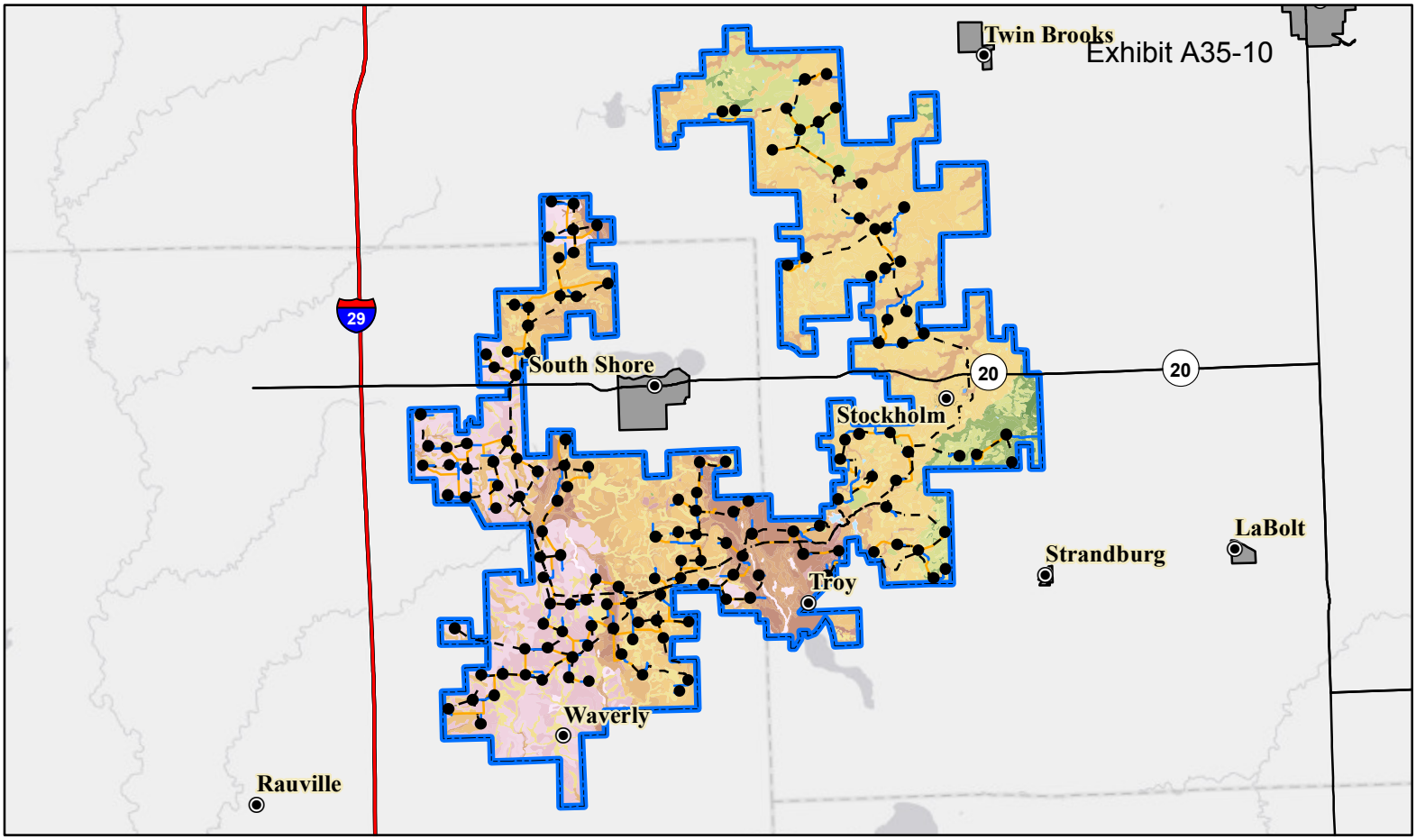

MUSYM (Soil Type)

- BeF (Buse-Forman loams, 25-40% slopes)
- BfD (Buse-Forman-Aastad loams, 4-15% slopes)
- Fa (Flom Clay loam)
- FdB (Forman-Aastad loams, 1-6% slopes)
- FdC (Forman-Aastad loams, 3-9% slopes)
- FdD (Forman-Aastad loams, 4-15% slopes)
- FgC (Forman-Buse loams, 6-9% slopes)
- FgE (Forman-Buse loams, 15-25% slopes)
- FhE (Forman-Buse extremely stony loams, 9-40% slopes)
- HaD (Hattie clay loam, 9 to 15% slopes)
- HaE (Hattie clay loam, 15 to 40% slopes)
- J119E (Buse-Sioux complex, 9 to 40% slopes)
- J136A (Great Bend-Beotia silt loams, 0 to 2% slopes)
- J225B (Forman-Aastad complex)
- Lb (LaDelle silt loam, channeled)
- Lc (Ludden silty clay)
- M-W Miscellaneous Water
- Pa (Parnell silty clay loam)
- Pb (Southam silty clay loam, 0 to 1% slopes)
- PcA (Peever clay loam, coteau, 0 to 2% slopes)
- PcB (Peever clay loam, coteau, 2 to 6% slopes)
- PcC (Peever clay loam, 6 to 9% slopes)
- PeB (Peever clay loam, 2 to 6% slopes)
- Ph (Playmoor silty clay loam)
- Ta (Tonka silty clay loam, 0 to 1% slopes)
- Vb (Vallers-Parnell complex)
- W (Water)
- Z101A (Tonka silty clay loam, 0 to 1% slopes)
- Z102A (Badger-Tonka silty clay loam, 0 to 1% slopes)
- Z105A (Oldham silty clay loam, coteau, 0 to 1% slopes)
- Z106A (Southam silty clay loam, 0 to 1% slopes)
- Z107A (Parnell silty clay loam, coteau, 0 to 1% slopes)
- Z110A (Vallers loam, coteau, 0 to 1% slopes)
- Z112A (Vallers-Hamerly loams, coteau, 0 to 2% slopes)
- Z113A (Vallers-Parnell complex, coteau, 0 to 2% slopes)
- Z114A (Hamerly-Tonka complex, coteau, 0 to 2% slopes)
- Z115A (Hamerly-Badger complex, coteau, 0 to 2% slopes)
- Z116A (McKranz-Hidwood, frequently flooded, silty clay loams, 0 to 2% slopes)
- Z117A (McKranz-Badger silty clay loams, 0 to 2% slopes)
- Z119A (Hamerly-Balaton loams, coteau, 0 to 3% slopes)
- Z128B (Hetland silty clay loam, 2 to 6% slopes)
- Z131A (Forman-Aastad loams, coteau, 0 to 2% slopes)
- Z131B (Forman-Aastad loams, coteau, 1 to 6% slopes)
- Z132B (Forman-Buse-Aastad loams, coteau, 1 to 6% slopes)
- Z132C (Forman-Buse-Aastad loams, coteau, 2 to 9% slopes)
- Z132D (Forman-Buse-Aastad loams, coteau, 2 to 15% slopes)
- Z135D (Forman-Buse loams, very stony, 2 to 15% slopes)
- Z136F (Buse-Langhei complex, very stony, 9 to 40% slopes)
- Z137F (Buse-Forman loams, very stony, 15 to 40% slopes)
- Z140F (Buse-Langhei complex, coteau, 15 to 40% slopes)
- Z141A (Barnes-Svea loams, coteau, 0 to 2% slopes)
- Z141B (Barnes-Svea loams, coteau, 1 to 6% slopes)
- Z142B (Barnes-Buse-Svea loams, coteau, 1 to 6% slopes)
- Z142C (Barnes-Buse-Svea loams, coteau, 2 to 9% slopes)
- Z143C (Barnes-Buse loams, coteau, 6 to 9% slopes)
- Z144E (Buse-Barnes loams, coteau, 9 to 20% slopes)
- Z145D (Buse-Barnes loams, coteau, very stony, 2 to 15% slopes)
- Z145F (Buse-Barnes loams, coteau, very stony, 9 to 40% slopes)
- Z146F (Buse-Lamoure, channeled, frequently flooded, complex, 0 to 40% slopes)
- Z148F (Buse very stony-Lamoure, channeled, frequently flooded, complex, 0 to 40% slopes)
- Z149F (Buse-Langhei, very stony-La Prairie, channeled, occasionally flooded, complex, 0 to 60% slopes)
- Z150A (Rauville silty clay loam, coteau, frequently flooded, 0 to 1% slopes)
- Z152A (Lamoure silty clay loam, coteau, occasionally flooded, 0 to 1% slopes)
- Z153A (Lamoure-Rauville silty clay loams, channeled, frequently flooded, 0 to 2% slopes)
- Z157A (Fairdale loam, channeled, frequently flooded, 0 to 2% slopes)
- Z158A (Marysland loam, occasionally flooded, 0 to 1% slopes)
- Z159A (Divide loam, occasionally flooded, 0 to 2% slopes)
- Z160A (Moritz, occasionally flooded-Lamoure, frequently flooded, complex, 0 to 2 % slopes)
- Z161A (Spottswood loam, occasionally flooded, 0 to 2% slopes)
- Z162A (La Prairie loam, coteau, occasionally flooded, 0 to 2% slopes)
- Z166A (Fordtown loam, rarely flooded, 0 to 2% slopes)
- Z167A (Renwash loam, rarely flooded, 0 to 2% slopes)
- Z171A (Renshaw-Fordville loams, coteau, 0 to 2% slopes)
- Z171B (Renshaw-Fordville loams, coteau, 2 to 6% slopes)
- Z172A (Renshaw loam, coteau, 0 to 2% slopes)
- Z172B (Renshaw loam, coteau, 2 to 6% slopes)
- Z173B (Renshaw-Sioux complex, coteau, 2 to 6% slopes)
- Z173C (Renshaw-Sioux complex, coteau, 6 to 9% slopes)
- Z174D (Sioux-Renshaw complex, coteau, 9 to 15% slopes)
- Z174F (Sioux-Renshaw complex, coteau, 15 to 40% slopes)
- Z175D (Renshaw-Sioux complex, very stony, 2 to 15% slopes)
- Z176C (Arvilla-Sandberg sandy loams, coteau, 6 to 9% slopes)
- Z177 (Udorthents, coteau (gravel pits))
- Z178A (Rentill loam, coteau, 0 to 2% slopes)
- Z179F (Sioux-Renshaw complex, very stony, 15 to 40% slopes)
- Z184E (Maddock loamy fine sand, 9 to 25% slopes)
- Z185A (Egeland-Embden complex, coteau, 0 to 2% slopes)
- Z185B (Egeland-Embden complex, coteau, 2 to 6% slopes)
- Z186B (Maddock-Egeland sandy loams, coteau, 2 to 6% slopes)
- Z186C (Maddock-Egeland sandy loams, coteau, 6 to 9% slopes)
- Z190A (Brookings silty clay loam, 0 to 2% slopes)
- Z192A (Vienna-Brookings complex, coteau, 0 to 2% slopes)
- Z192B (Vienna-Brookings complex, coteau, 1 to 6% slopes)
- Z193C (Vienna-Buse complex, coteau, 6 to 9% slopes)
- Z194A (Barnes clay loam, coteau, 0 to 2% slopes)
- Z194B (Barnes clay loam, coteau, 2 to 6% slopes)
- Z198A (Vienna-Forestville loams, coteau, 0 to 2% slopes)
- Z199B (Vienna-Barnes-Forestville loams, 1 to 6% slopes)
- Z205B (Mauvais clay loam, occasionally ponded, extremely stony, 2 to 6% slopes)
- Z217A (McKranz silty clay loam, 0 to 2% slopes)
- Z250A (Rauville mucky silty clay loam, ponded, frequently flooded, 0 to 1% slopes)
- Z252A (Hidewood silty clay loam, frequently flooded, 0 to 2% slopes)

Figure 11. Soil Types

Crowned Ridge Wind Farm

- City
- Turbine
- Access Road
- Collector Line
- Crane Path
- Interstate Highway
- State Highway
- Town Boundary
- Project Boundary

Kilometers: 0 5 10

Miles: 0 5 10

N W E S

Base Map: World Light Gray Canvas Base
Sources: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community
Codington and Grant Counties, South Dakota

Projection: NAD 1983 UTM Zone 14N

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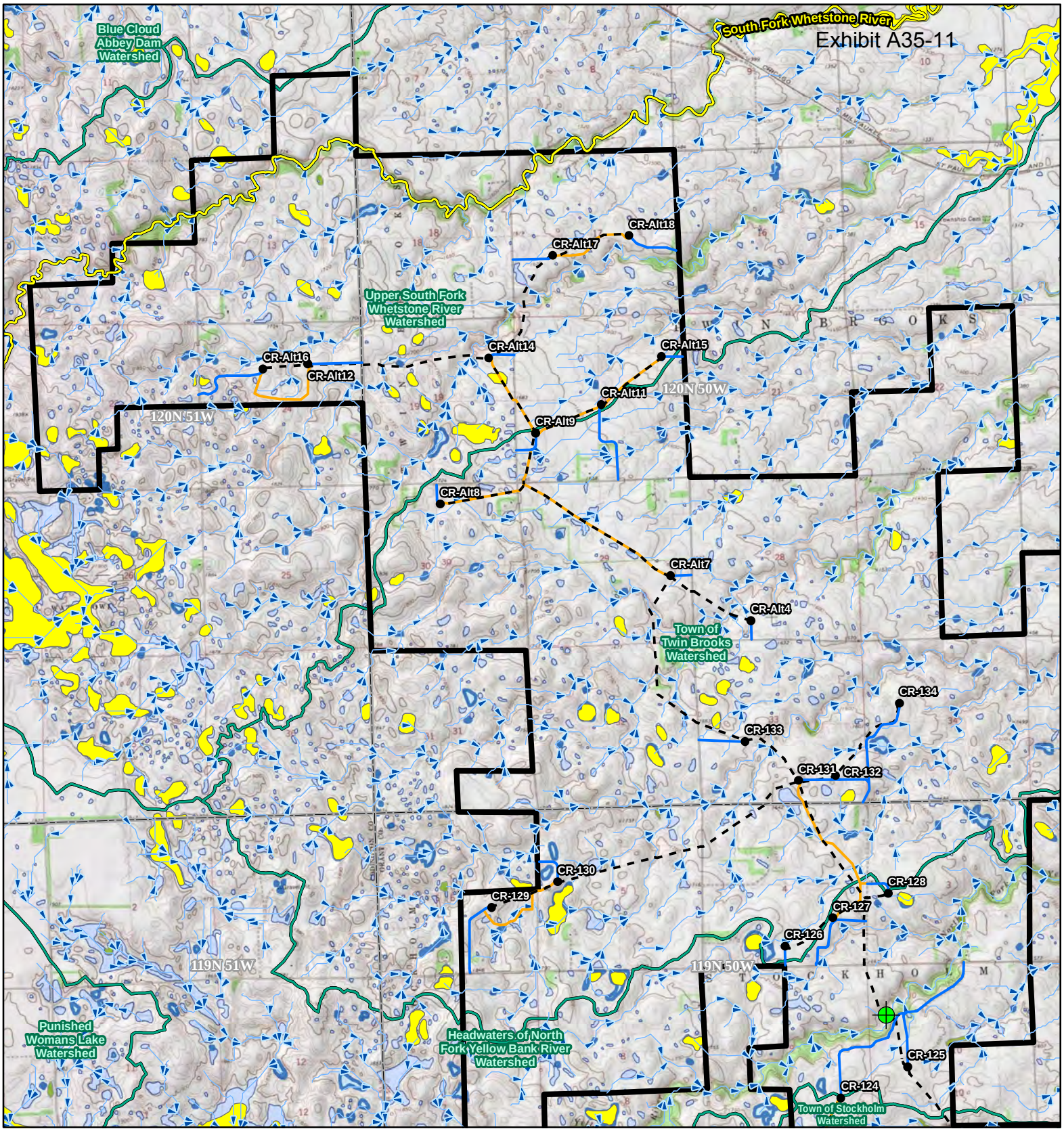


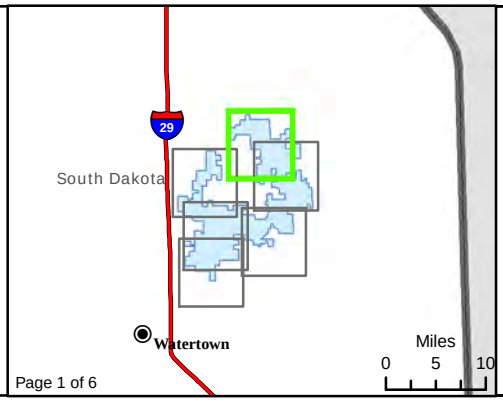
Figure 12. Water Resources

Crowned Ridge Wind Farm

- City
- Intersection of Floodplain and Project Infrastructure
- Turbine
- Access Road
- Collector Line
- Crane Path
- Flow Direction
- South Dakota Beneficial Use Stream
- South Dakota Beneficial Use Lake
- Watershed Boundary (HUC12)
- Project Boundary
- County Boundary
- Township/Range Boundary
- Freshwater Emergent Wetland
- Freshwater Forested/ Shrub Wetland
- Lake, Pond, or Riverine Wetland

FEMA Flood Zone

- A



Page 1 of 6

Kilometers

0 1 2

Miles

0 1 2

Base Map: USGS 7.5' Topographic Map
Source: Esri ArcGIS Online service
Quadrangle: Antelope Valley (1973), Twin Brooks (1973), Stockholm (1973)
Township/Range: T120N, R51W & T120N, R50W & T119N, R50W
Grant County, South Dakota

Projection: NAD 1983 UTM Zone 14N

010198

SWCA ENVIRONMENTAL CONSULTANTS

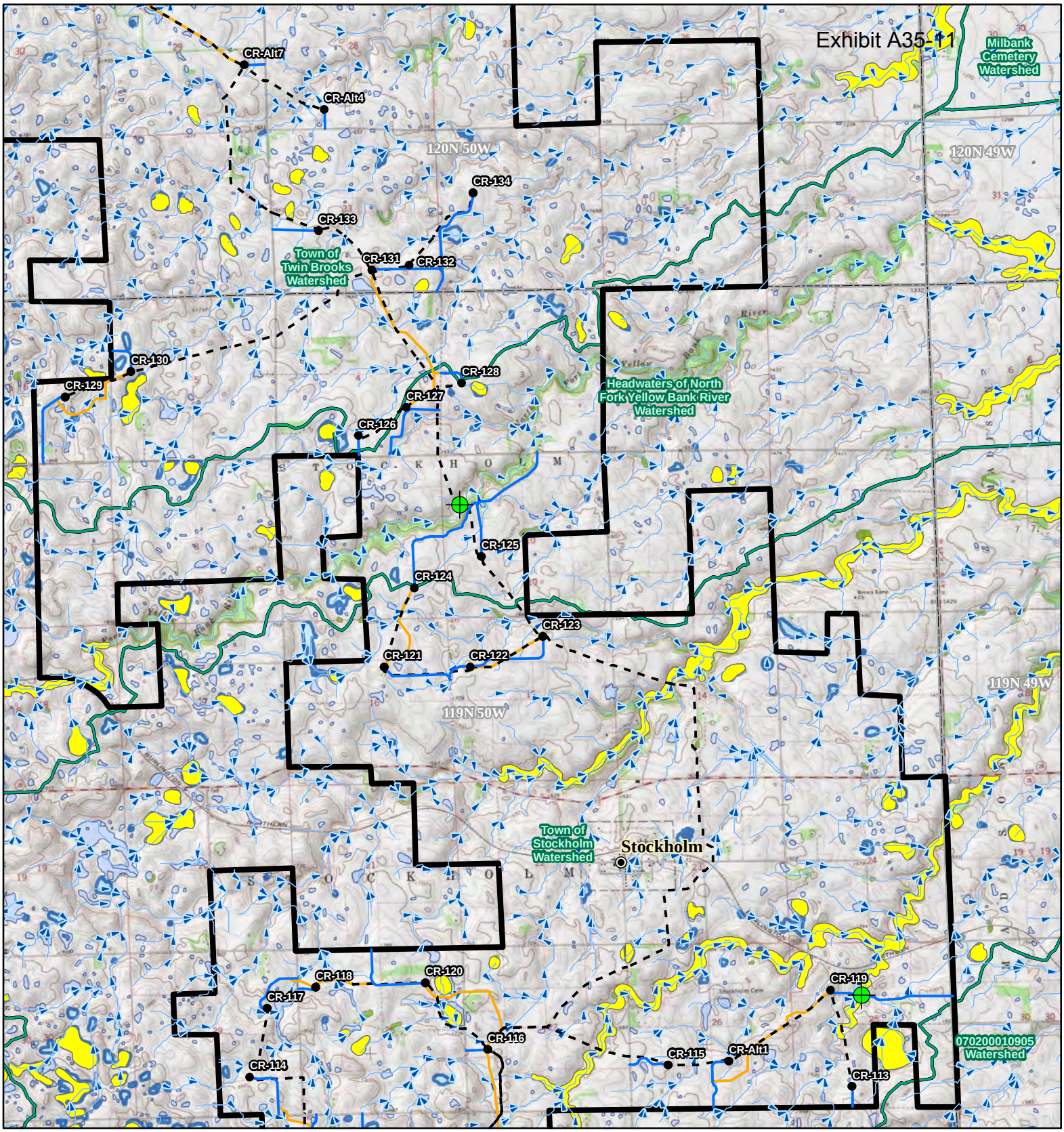


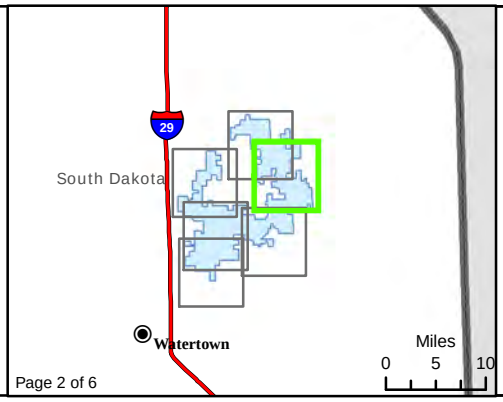
Figure 12. Water Resources

Crowned Ridge Wind Farm

- City
- Intersection of Floodplain and Project Infrastructure
- Turbine
- Access Road
- Collector Line
- Crane Path
- Flow Direction
- South Dakota Beneficial Use Stream
- South Dakota Beneficial Use Lake
- Watershed Boundary (HUC12)
- Project Boundary
- County Boundary
- Township/Range Boundary
- Freshwater Emergent Wetland
- Freshwater Forested/ Shrub Wetland
- Lake, Pond, or Riverine Wetland

FEMA Flood Zone

- A



Kilometers: 0, 1, 2

Miles: 0, 1, 2

Base Map: USGS 7.5' Topographic Map
Source: Esri ArcGIS Online service
Quadrangle: Twin Brooks (1973), Stockholm (1973)
Township/Range: T120N, R50W & T119N, R50W
Grant County, South Dakota

Projection: NAD 1983 UTM Zone 14N

SWCA ENVIRONMENTAL CONSULTANTS

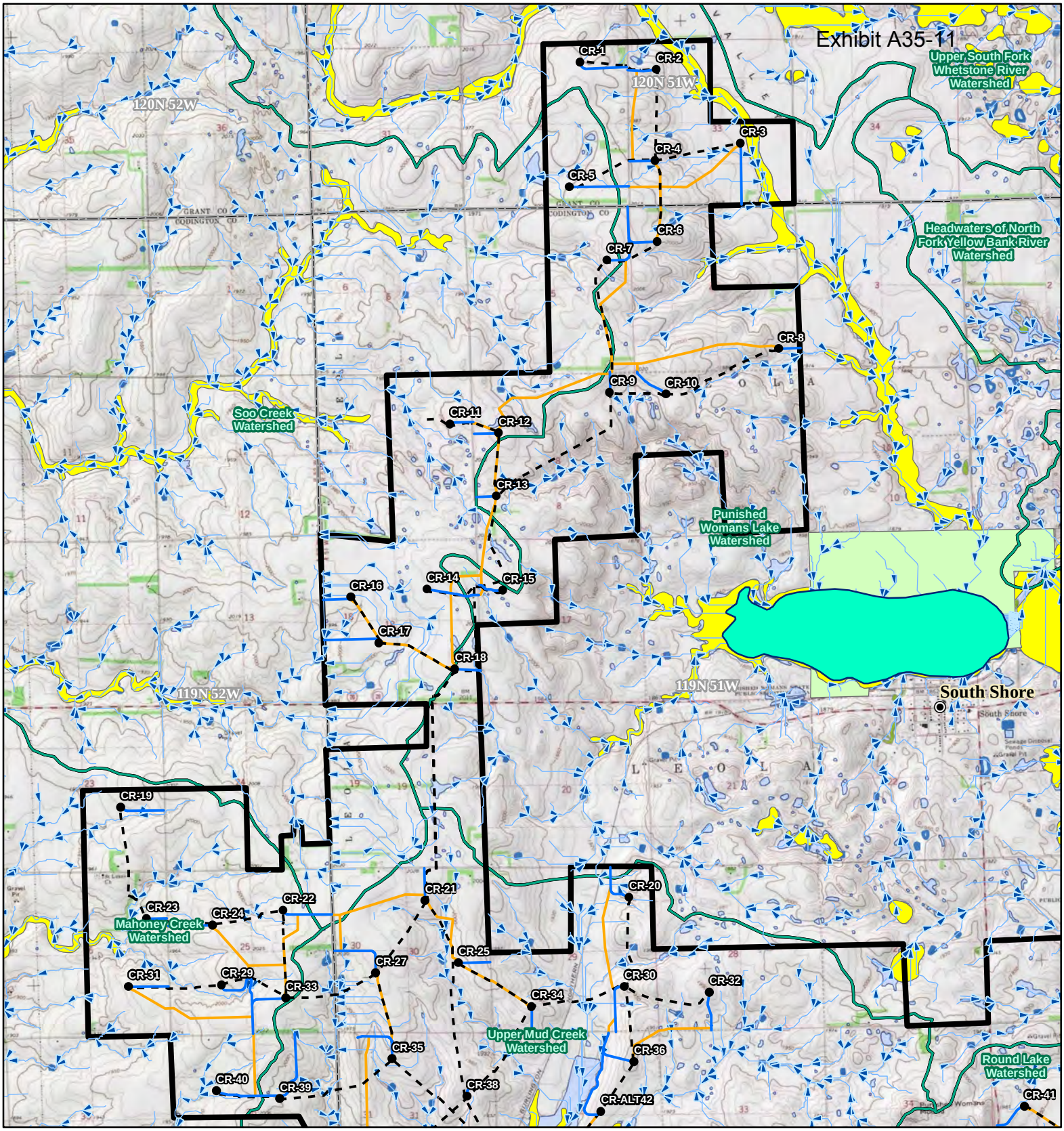


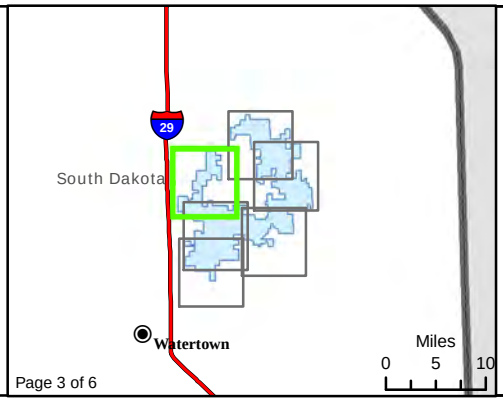
Figure 12. Water Resources

Crowned Ridge Wind Farm

- City
- Intersection of Floodplain and Project Infrastructure
- Turbine
- Access Road
- Collector Line
- Crane Path
- Flow Direction
- South Dakota Beneficial Use Stream
- South Dakota Beneficial Use Lake
- Watershed Boundary (HUC12)
- Project Boundary
- County Boundary
- Township/Range Boundary
- Freshwater Emergent Wetland
- Freshwater Forested/ Shrub Wetland
- Lake, Pond, or Riverine Wetland

FEMA Flood Zone

- A
- D



Page 3 of 6

Kilometers

0 1 2

Miles

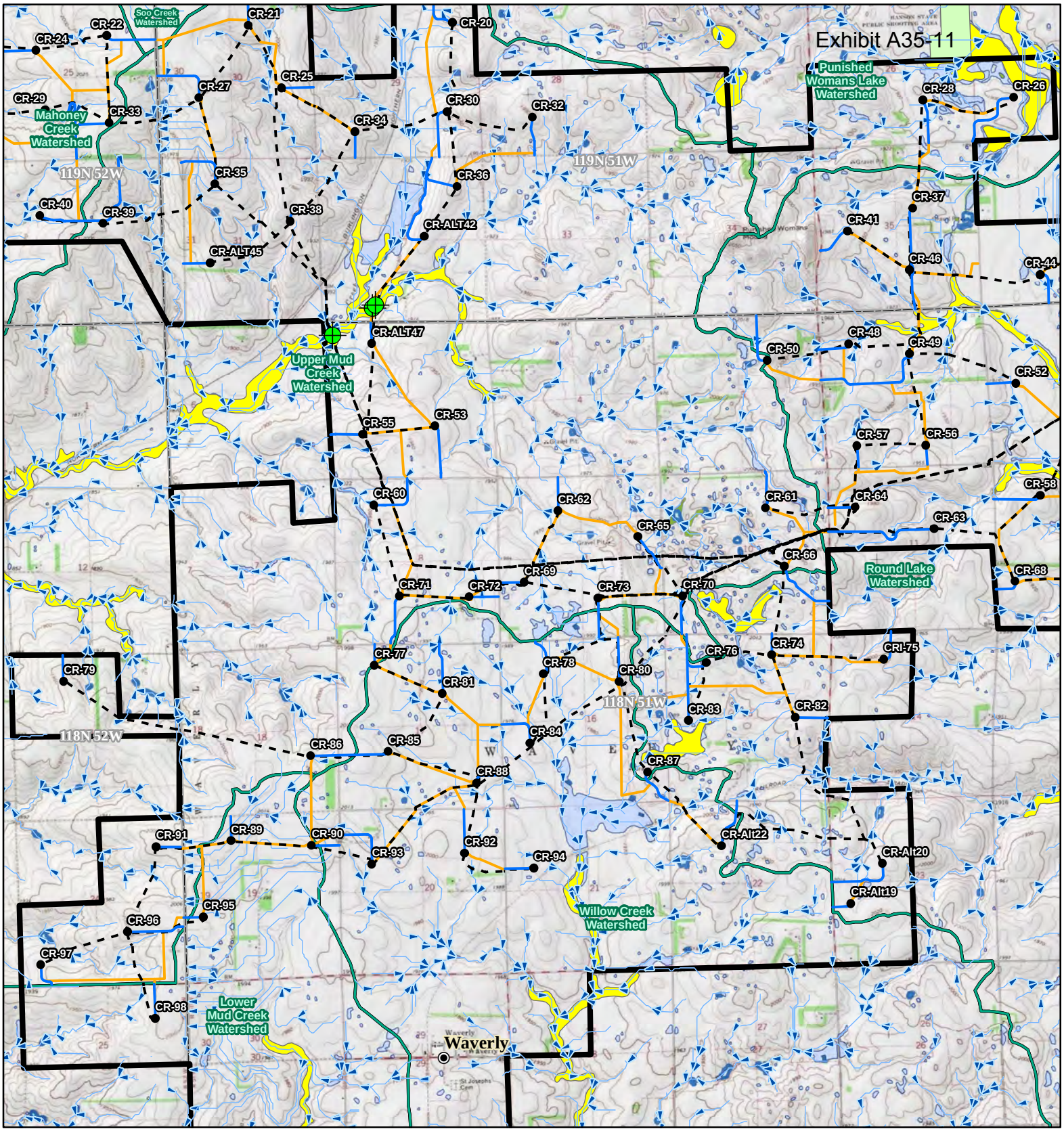
0 1 2

Base Map: USGS 7.5' Topographic Map
Source: Esri ArcGIS Online service
Quadrangle: Antelope Valley (1973), Still Lake SE (1970), South Shore (1973)
Township/Range: T120N, R51W & T119N, R52W & T119N, R51W
Codington and Grant Counties, South Dakota

Projection: NAD 1983 UTM Zone 14N

010200

SWCA ENVIRONMENTAL CONSULTANTS



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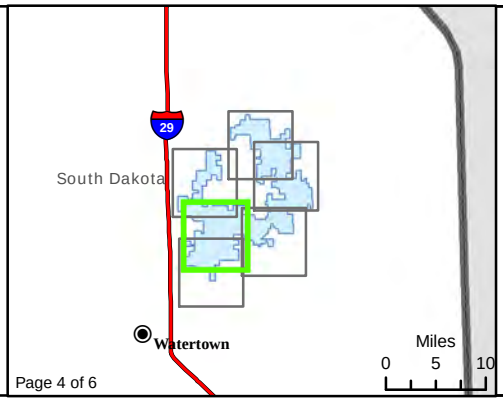


Page 4 of 6

Kilometers

0 1 2

Miles

0 1 2

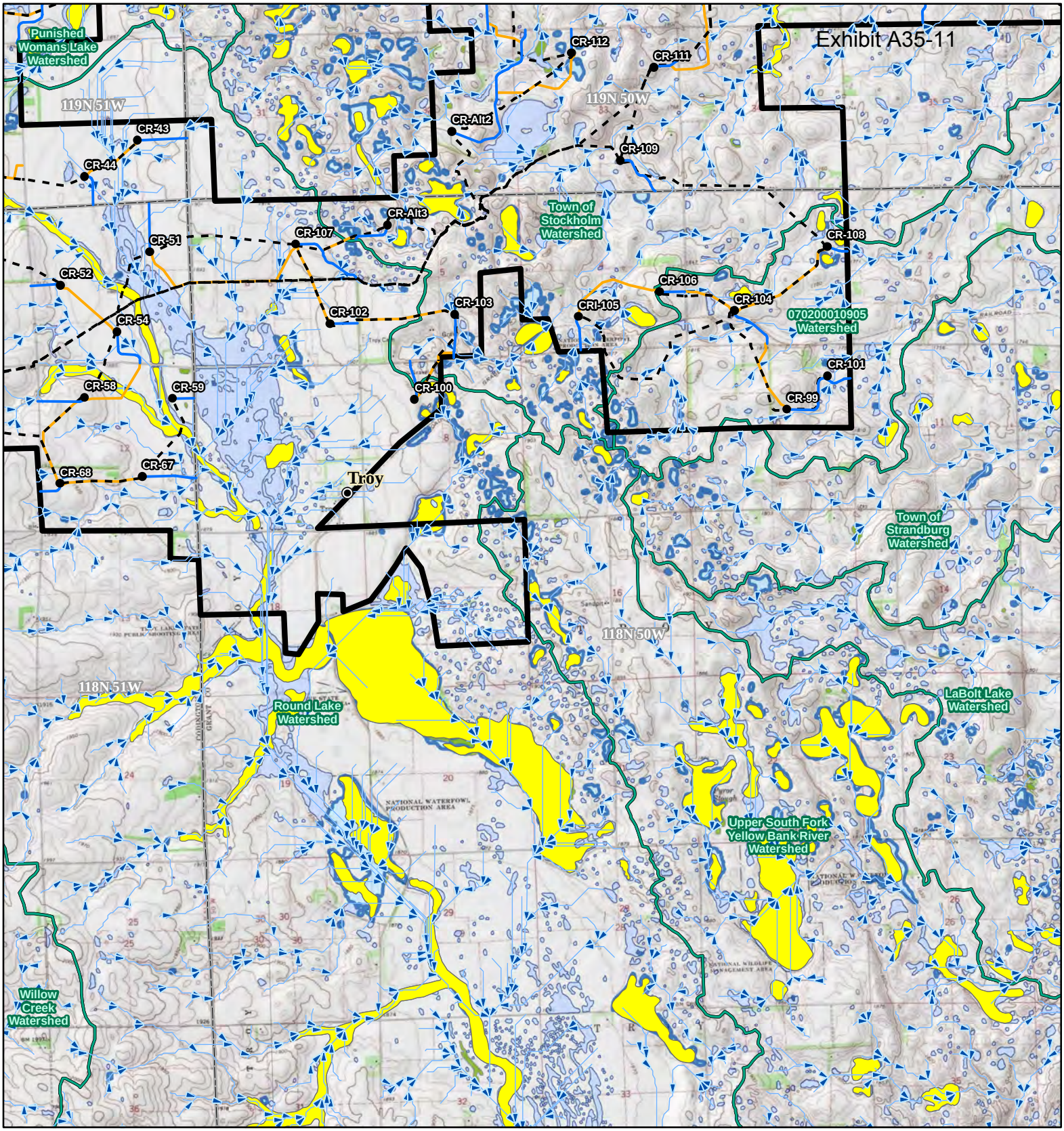
Base Map: USGS 7.5' Topographic Map
Source: Esri ArcGIS Online service
Quadrangle: Still Lake SE (1970), South Shore (1973), Watertown East (1969), Kranzburg (1970)
Township/Range: T119N, R52W & T119N, R51W & T118N, R52W & T118N, R51W
Codington County, South Dakota

010201

Page 000004

Projection: NAD 1983 UTM Zone 14N

SWCA ENVIRONMENTAL CONSULTANTS



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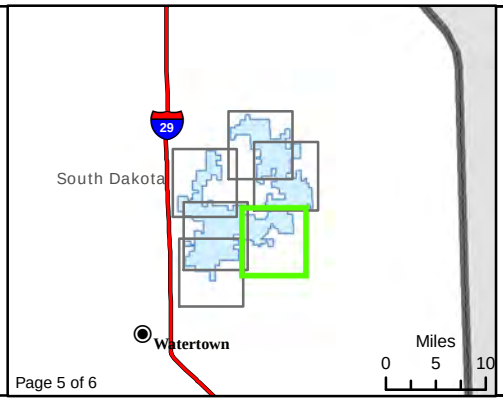
FEMA Flood Zone

- A



Page 5 of 6

Kilometers: 0 1 2

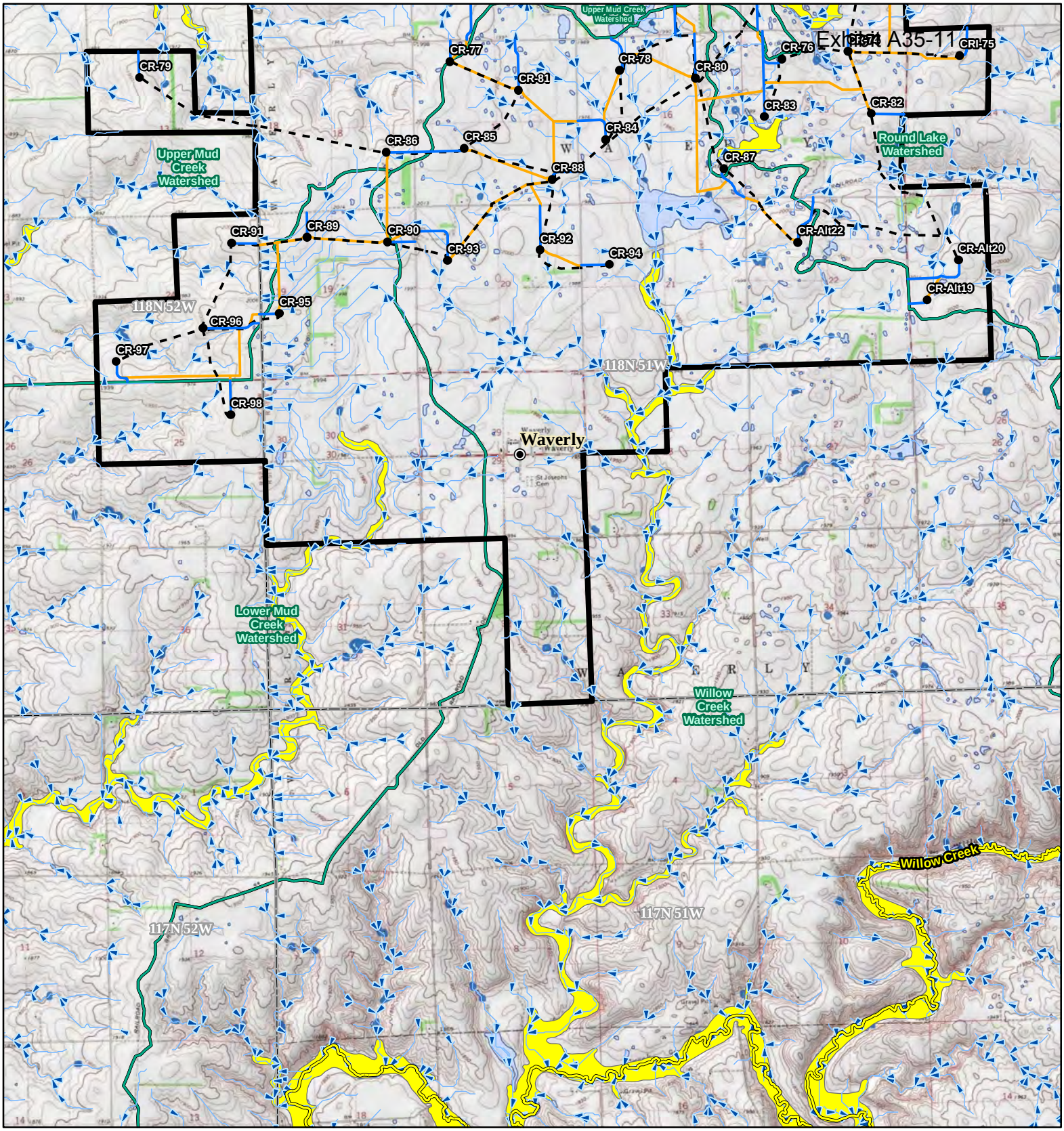
Miles: 0 1 2

Base Map: USGS 7.5' Topographic Map
Source: Esri ArcGIS Online service
Quadrangle: South Shore (1973), Stockholm (1973)
Township/Range: T119N, R51W & T119N, R50W & T118N, R51W & T118N, R50W
Codington and Grant Counties, South Dakota

010202

Projection: NAD 1983 UTM Zone 14N

SWCA ENVIRONMENTAL CONSULTANTS



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FEMA Flood Zone

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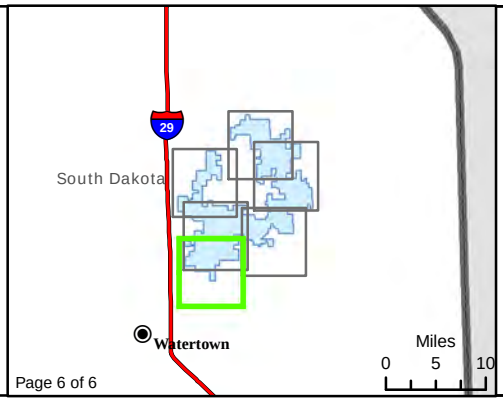

Kilometers: 0 1 2

Miles: 0 1 2

Base Map: USGS 7.5' Topographic Map
Source: Esri ArcGIS Online service
Quadrangle: Still Lake SE (1970), South Shore (1973), Watertown East (1969), Kranzburg (1970)
Township/Range: T118N, R52W & T118N, R51W
Codington County, South Dakota

Projection: NAD 1983 UTM Zone 14N

SWCA ENVIRONMENTAL CONSULTANTS

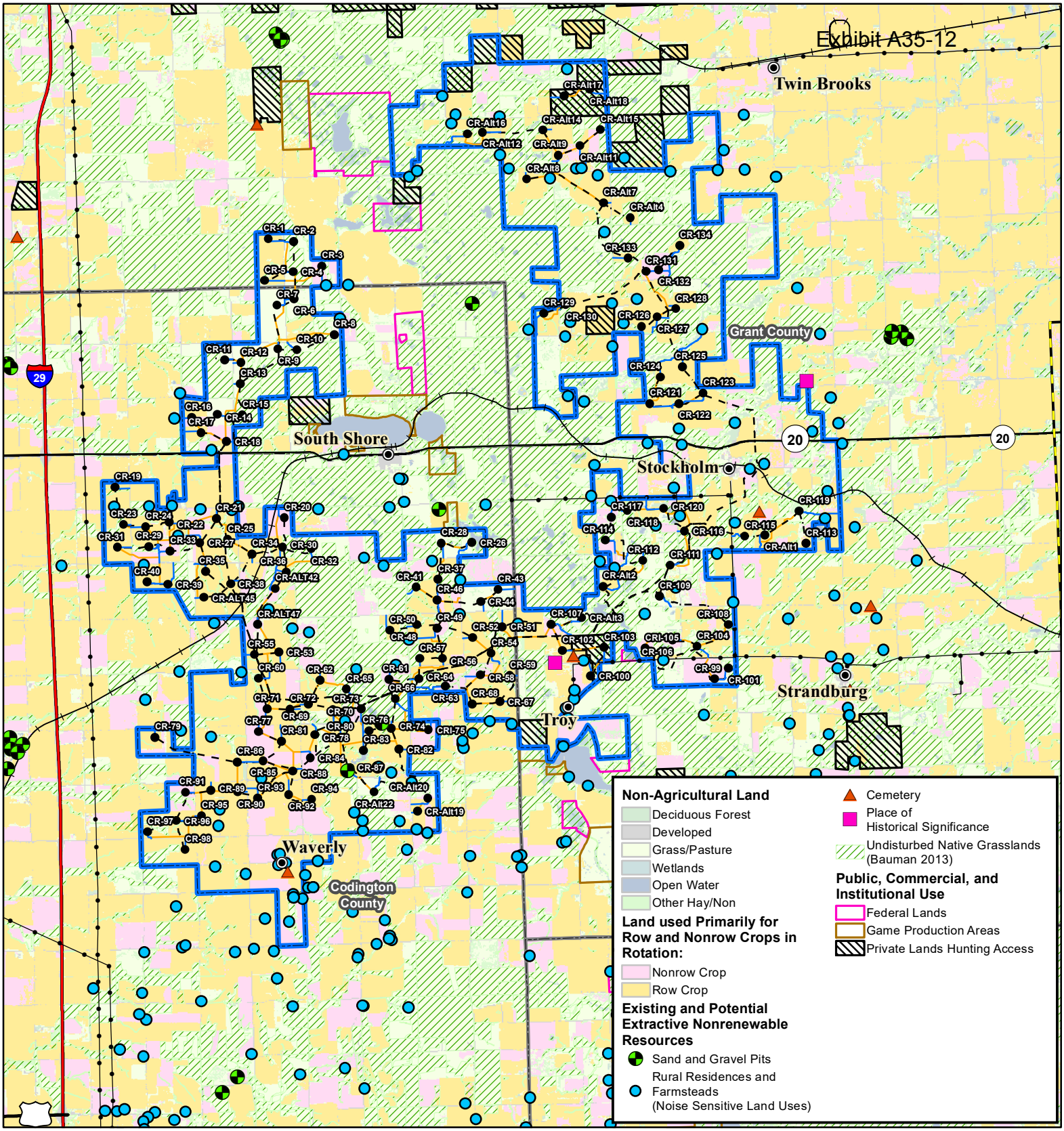

Figure 13. Land Use

Crowned Ridge Wind Farm

City
Turbine
Access Road
Collector Line
Crane Path
Electrical Line
Natural Gas Line
Railroad
Interstate Highway
U.S. Highway
State Highway
Project Boundary
County Boundary

Kilometers
0 5 10

Miles
0 2.5 5

N W E S

Base Map: 2017 South Dakota Cropland Data Layer | NASS/USDA
Source: United States Department of Agriculture (USDA),
National Agricultural Statistics Service (NASS),
Research and Development Division (RDD),
Geospatial Information Branch (GIB),
Spatial Analysis Research Section (SARS); 2017 Edition
Codington, Deuel, and Grant Counties, South Dakota

Projection: NAD 1983 UTM Zone 14N

SWCA ENVIRONMENTAL CONSULTANTS

BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE STATE OF SOUTH DAKOTA

IN THE MATTER OF THE APPLICATION BY CROWNED RIDGE WIND, LLC FOR A PERMIT OF A WIND ENERGY FACILITY IN GRANT AND CODINGTON COUNTIES	)))))	EL19-003 **APPLICANT'S RESPONSES TO STAFF**

Attached, please find Supplemental Responses to Staff 2-41.

Dated this 24th day of May, 2019.

Miles F. Schumacher
Attorneys for Applicant
Lynn, Jackson, Shultz & Lebrun, PC
110 N. Minnesota Ave., Suite 400
Sioux Falls, SD 57104

Staff 2-41) Refer to the testimony of Tyler Wilhelm and Sam Massey. On page 5 they state that 99% of the necessary property rights have been obtained. Provide an update on if the remaining 1% has been obtained. If it hasn't, does the company still estimate all property rights necessary
for the project will be obtained by March 1, 2019?

Original Response: Crowned Ridge Wind is working actively with the landowner to obtain the
outstanding easement. The Applicant anticipates that all property rights necessary for the Project will be obtained by March 31, 2019.

Supplement Response: At this time, Crowned Ridge Wind has less than the 99% represented in the original response due to minor revisions to the Project site plan and the expiration of easement options that we expect will be re-signed. Crowned Ridge Wind will need to obtain the following additional property rights:

- (2) easement option agreements to support underground collection and temporary construction access;
- (3) easement option agreements to support underground collection; and
- (2) easement option agreements to support alternate turbine locations and associated facilities (underground collection, turbine access road and temporary construction access etc.)

Crowned Ridge Wind anticipates obtaining all remaining property needed by June 20, 2019

Respondent: Tyler Wilhelm, Project Manager

BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE STATE OF SOUTH DAKOTA

IN THE MATTER OF THE APPLICATION OF
CROWNED RIDGE, LLC FOR A FACILITIES PERMIT TO
CONSTRUCT A 300 MEGAWATT WIND FACILITY

Docket No. EL19-003

REBUTTAL TESTIMONY

OF MARK THOMPSON

May 24, 2019

INTRODUCTION

Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.

A. Mark Thompson, 700 Universe Blvd., Juno Beach FL 33408.

Q. BY WHOM ARE YOU EMPLOYED AND IN WHAT CAPACITY?

A. I am the Manager of Wind Engineering within the Engineering & Construction organization at NextEra Energy Resources, LLC.

Q. **WHAT ARE YOUR RESPONSIBILITIES?**

A. As the Manager of Wind Engineering, one of my primary roles is to coordinate or provide support for the development of new wind sites, such as Crowned Ridge Wind ("CRW").

Q. **ARE YOU THE SAME MARK THOMPSON WHO SUBMITTED DIRECT TESTIMONY IN THIS PROCEEDING ON JANUARY 30, 2019 AND SUPPLEMENTAL TESTIMONY ON APRIL 1, 2019?**

A. Yes.

Q. HAS THIS TESTIMONY BEEN PREPARED BY YOU OR UNDER YOUR DIRECT SUPERVISION?

A. Yes

TESTIMONY

Q. PLEASE DESCRIBE THE PURPOSE OF YOUR REBUTTAL TESTIMONY.

A. The purpose of my supplemental testimony is to respond to the Direct Testimony of Staff witness Darren Kearney, the Direct Testimony of Intervenor witness Allen Robish, and Intervenors' proposed conditions as set forth in Staff witness Darren Kearney's Direct Testimony, Exhibit DK-8,

1

2 **GE Manual**

3 **Q. STAFF WITNESS KEARNEY'S TESTIMONY AT PAGE 18 REQUESTS THAT**
4 **CROWNED RIDGE WIND PROVIDE THE GE SAFETY MANUAL. DO YOU**
5 **AGREE WITH THIS REQUEST?**

6 A. Yes, I have attached it as Confidential Exhibit MT-R-1, and I provided it in response to
7 Staff Data Request 5-1 on May 22, 2019.

8 **Wind Turbines and Ice**

9 **Q. INTERVENOR WITNESS ROBISH ASSERTS THAT HE VIEWED AN EVENT**
10 **WHEN A WIND TURBINE THREW ICE ONTO A HIGHWAY. WHAT**
11 **MEASURES IS CRW IMPLEMENTING TO ADDRESS ICING ON TURBINE**
12 **BLADES?**

13 A. The CRW will apply the most current set back recommended by the turbine manufacturer
14 GE. The setback is based on recent studies conducted in February 2017. The result of the
15 study states that larger turbines have a lower probability of longer throwing distance. It
16 was discovered that prevailing wind interacting with a taller turbines would cause ice to
17 lump and fall on the windward side on the turbine. The study resulted in adjustments in
18 setback distances of 1.1*(tip height) from highways.

19

20 Further, as set forth in response to Staff's Data Request 5-2 (attached as Exhibit MT-R-
21 2), CRW has committed to use an ice detector and ice detection system on all CRW
22 turbines, which will shut down the wind turbine if the ice buildup is at a level that causes
23 the turbine output to be outside expected limits set by GE.

1 **Intervenors' Proposed Conditions**

2 Q. **THE INTERVENORS' CONDITION 3 (KEARNEY EXHIBIT DK-8) REQUIRES**
3 **AN INCREASED SETBACK FROM ALL PUBLIC RIGHT-OF-WAYS TO A**
4 **DISTANCE GREATER THAN: 1.5 * (THE DIAMETER OF THE BLADES PLUS**
5 **THE HEIGHT OF THE TURBINE). THIS IS THE DISTANCE OUTLINED IN**
6 **THE GENERAL ELECTRIC ("GE") TECHNICAL DOCUMENT NUMBER**
7 **GER4262, TITLED "ICE SHEDDING AND ICE THROW-RISK AND**
8 **MITIGATION". DO YOU AGREE WITH THIS CONDITION?**

9 A. No, the guidelines in GER 4262 cited by Intervenors are dated 2006. These guidelines
10 are based on older studies of smaller wind turbines. GE updated their recommendations
11 in "Setback Consideration Generic xxHz_EN_r04." See Exhibit MT-R-3. GE's current
12 set back recommendation is based on more recent studies on ice throw from larger utility
13 scale wind turbines and based on these studies GE requires a 1.1*(tip height) set back.
14 CRW will comply with the most current GE set back.

15

16 Q. **THE INTERVENORS' CONDITION 4 (KEARNEY EXHIBIT DK-8) PROPOSES**
17 **TO "LIMIT CONSTRUCTION, INCLUDING TRAFFIC, TO THE HOURS OF 7**
18 **AM - 7 PM SO THAT DISRUPTION TO OUR HOME LIVES IS REASONABLY**
19 **LIMITED." DO YOU AGREE WITH THIS CONDITION?**

20 A. No. While the majority of the site work will be done between 7:00 a.m. and 7:00 pm,
21 work activities, such as turbine install and concrete work, would continue outside of the
22 above specified time fra.m.e. These work activities are remote and are far removed from
23 residential homes. Any disturbance to residents is mitigated after 7:00 p.m. because of the

reduction of on-site personnel and the number of vehicles. In addition, deliveries will not be scheduled outside of the 7:00 a.m. to 7:00 p.m. window.

Also, if there are residents that have concerns with the work after 7:00 p.m., CRW will have an on-site construction manager to whom they can address their concerns, and the construction manager has the authority to address those concerns. The construction manager will be identified to the landowners as part of the pre-construction information the Commission requires CRW to send to landowners.

Q. THE INTERVENORS' CONDITION 5 (KEARNEY EXHIBIT DK-8) REQUIRES: "NOTIFICATION OF WORK AREAS, HEAVY ROAD USAGE, ROAD CLOSURES/ANTICIPATED CONGESTION, NOISE, DUST/PARTICULATE WARNINGS, FOR RESIDENTS POSTED ONLINE DAILY, ALSO IN LOCAL ELEVATORS SO THAT CITIZENS WHO LIVE AND WORK IN THE AREA CAN BE INFORMED ABOUT THE DISRUPTION TO THEIR LIVES AND TAKE ANY STEPS POSSIBLE TO MITIGATE." DO YOU AGREE WITH THIS CONDITION?

A. No. In past wind facility permit cases (such as Crocker Wind, Prevailing Wind, and Dakota Range I and II), the Commission has required the following: "Applicant will provide signage that identifies road closures and disturbances resulting from the Project in accordance with the most recent editions of the Manual on Uniform Traffic Control Devices as published by the Federal Highway." CRW agrees with this condition. The Manual on Uniform Traffic Control Devices (MUTCD) as published by the Federal

Highway Administration requires that the minimum standards and guidelines that ensure uniformity of traffic control be adhered to across the nation. The MUTCD is the law governing all traffic control devices and non-compliance could result in federal action being taken.

In past cases (such as Crocker Wind, Prevailing Wind, and Dakota Range I and II), the Commission's conditions also required that the following notification:

> At least 14 days prior to commencement of construction, Applicant shall provide each participating and non-participating landowner in the Project Area with the following information:
>
> a) A copy of the Final Decision and Order Granting Permit to Construct Facilities;
>
> b) Detailed safety information describing:
>
> 1) Reasonable safety precautions for existing activities on or near the Project;
>
> 2) Known activities or uses that are presently prohibited near the Project, and
>
> 3) Other known potential dangers or limitations near the Project;
>
> c) Construction/maintenance damage compensation plans and procedures;
>
> d) The Commission's address, website, and phone number;
>
> e) Contact person for Applicant, including name, e-mail address, and phone number.

CRW will not object to this condition. The Commission condition is more comprehensive than the notification proposed by landowners and directly targets participants and non-participants in the project area. Therefore, with CRW agreeing to these conditions there is no need to adopt the Intervenor's condition.

Q. THE INTERVENORS' CONDITION 11 (KEARNEY EXHIBIT DK-8) REQUIRES: "ALL OIL OR HAZARDOUS MATERIAL SPILLS DURING PRE-

CONSTRUCTION, CONSTRUCTION, MAINTENANCE, OPERATION AND DECOMMISSIONING SHALL BE REPORTED TO THE PUC WITHIN 20 DAYS IN ADDITION TO ANY REQUIRED REPORTING TO THE DENR." DO YOU AGREE WITH THIS CONDITION?

A. CWR will be in full compliance with its Spill, Prevention, Control and Countermeasure ("SPCC") plan. The plan provides clear instruction on how internal and external reporting should proceed. The plan stipulates that all spills should be reported immediately to the NextEra Fleet Performance & Diagnostic Center and the Power Delivery Diagnostic Group. After consultation with the NextEra Environmental Group, all applicable governmental agencies will be notified. If this Commission desires to be added to the list of applicable governmental agencies, CRW is agreeable to add the Commission and notified it within 20 days a spill. The contact telephone numbers for the relevant agencies will be included in the site specific SPCC Plan.

Q. THE INTERVENORS' CONDITION 12 (KEARNEY EXHIBIT DK-8) PROPOSES TO "REQUIRE A CONTAINMENT BASIN WITH A PERIMETER AT LEAST 2 FEET AWAY FROM THE BASE OF THE TURBINE. THE BASIN SHALL BE NO LESS THAN 3 FEET IN DEPTH, WITH A ¼" OR LESS METAL MESH COVER." DO YOU AGREE WITH THIS CONDITION?

A. No, I do not. A catastrophic failure of a turbine gearbox, which contains the majority of the oil, is an infrequent and rear occurrence. If a gearbox does fail, large spills would be contained inside the tower. Drips and leaks would be contained in the "oil catchment basin" located in the nacelle. In the event of a spill that reaches the ground, the SPCC

cleanup procedures is activated. Therefore, the Intervenor's proposed condition 11 is not needed and is not appropriate.

Q. THE INTERVENORS' CONDITION 13 (KEARNEY EXHIBIT DK-8) REQUIRES:

> **ALL INCIDENTS OF BLADE THROW, SHED, DEFRAGMENTATION, DELAMINATION SHALL BE REPORTED TO THE PUC WITHIN 20 DAYS OF THE INCIDENT.**
>
> **○ REPORT TO PUC HOW EACH OF THE ABOVE ISSUES WILL BE RECTIFIED/MITIGATED AND THE ANTICIPATED TIME FRAME.**
> **○ SUBMIT A FOLLOW UP REPORT TO THE PUC OUTLINING HOW THE ABOVE ISSUES WERE ACTUALLY RECTIFIED/MITIGATED AND IF THE ANTICIPATED TIME FRAME WAS MET."**

DO YOU AGREE WITH THIS CONDITION?

A. In part, yes. We agree to report incidents of blade throw, blade defragmentation, blade shed and blade delamination to the Commission within 20 days of its occurrence, with the understanding that some of the report may contain confidential information and may not be disclosed to the public. We would object to the Intervenors first and second bulleted requirements as part of the reporting condition. However, after our initial report is filed, if further information was requested by the Commission Staff or the Commission we would submit it to the Staff and the Commission.

Q. THE INTERVENORS' CONDITION 14 (KEARNEY EXHIBIT DK-8) REQUIRES: "ALL INCIDENTS OF BODILY INJURY OCCURRING TO ANYONE RELATED TO THE PROJECT, THROUGH THE CONSTRUCTION, OPERATION AND DECOMMISSIONING OF THE PROJECT, INCLUDING VEHICULAR ACCIDENTS SHALL BE REPORTED TO THE PUC WITHIN 20

1 **DAYS OF THE INCIDENT. THIS REPORT SHALL BE AVAILABLE TO THE**
2 **PUBLIC." DO YOU AGREE WITH THIS CONDITION?**
3 A. No. The condition is not needed because CRW will adhere to the Occupational Safety
4 and Health Administration's ("OSHA") official recording and reporting guidelines.
5 Significant events involving bodily injury are reported to OSHA through telephone or
6 electronic submission. Information related to these reports will become available on
7 OSHA's public web site at *www.osha.gov*.

8 **Q. THE INTERVENORS' CONDITION 15 (KEARNEY EXHIBIT DK-8)**
9 **REQUIRES: "ALL FIRES RELATED TO THE PROJECT SHALL BE**
10 **REPORTED TO THE PUC WITHIN 20 DAYS OF THE INCIDENT. THIS**
11 **REPORT SHALL BE AVAILABLE TO THE PUBLIC."**
12 **DO YOU AGREE WITH THIS CONDITION?**
13 A. Yes, in part. CRW agrees to report all fires to the Commission within 20 days.
14 However, it does not agree that the report will be available to the public, as the report
15 may include confidential information. Therefore, CRW is not willing to agree that all
16 reports related to fires will be available to the public. Therefore, CRW proposes that the
17 last sentence be deleted.
18

19 **Q. THE INTERVENORS' CONDITION 22 (KEARNEY EXHIBIT DK-8)**
20 **REQUIRES: "THE APPLICANT FOR THE LIFE OF THE PROJECT, CRADLE**
21 **TO GRAVE, SHALL KEEP MAINTENANCE LOGS OF EVERY REPAIR OR**
22 **REPLACEMENT. THE REPORT SHALL INCLUDE BUT NOT LIMITED TO**
23 **THE PLACE OF REPAIR, MAINTENANCE OR REPLACEMENT, THE DATE**

AND TIME, THE PART NUMBER, THE SERIAL NUMBER, IDENTIFY IF THE PART IS OEM AND WARRANTY INFORMATION. THIS REPORT SHALL BE COMPILED QUARTERLY AND SUBMITTED TO THE PUC AND AVAILABLE FOR PUBLIC REVIEW." DO YOU AGREE WITH THIS CONDITION?

A. No. First, there is no need or justification provided for the information implicated by the condition to be provided to the Commission and the public. Second, the information requested in this condition would be highly confidential information that is made public would provide our competitors an advantage. For example, maintenance logs contain confidential information reflecting cost of parts and labor associated with the turbine maintenance. Also, our proprietary maintenance process and procedures, which are unique to CRW, would be of considerable value to competitors if publically disclosed. In addition, there is confidential and sensitive turbine warranty information that GE requires that we as confidential. For all of these reasons, this condition should not be adopted.

Q. THE INTERVENORS' CONDITION 35 (KEARNEY EXHIBIT DK-8) REQUIRES: "THE APPLICANT, FOR THE LIFE OF THE PROJECT, SHALL QUARTERLY MONITOR AND REPORT ALL STRAY VOLTAGE INCLUDING BUT NOT LIMITED TO STRAY VOLTAGE DISPERSED INTO THE GROUND. THIS REPORT SHALL BE PUBLISHED WITHIN 30 DAYS PUBLIC OPINION NEWSPAPER IN WATERTOWN, SD, SOUTH SHORE GAZETTE IN SOUTH SHORE, SD AND THE GRANT COUNTY REVIEW IN MILBANK, SD. DO YOU AGREE WITH THIS CONDITION?

1 A. No, the collection and substation electrical systems are designed in accordance with IEEE
2 and National Electrical Safety Code recommended standards, which ensures that the
3 voltages are balanced during normal operations. Therefore, there will be no stray
4 voltages and of such monitoring, will not be needed.
5
6 **Q. THE INTERVENORS' CONDITION 2 (KEARNEY EXHIBIT DK-8) REQUIRES**
7 **THAT THERE SHOULD BE NO TURBINES WITHIN 2 MILES OF WAVERLY**
8 **SCHOOL TO LESSON THE EXPOSURE OF THE SCHOOL TO THE PROJECT.**
9 **WHAT, IF ANY, CONSTRUCTION, OPERATION AND MAINTENANCE**
10 **EXPOSURE IS THERE TO THE SCHOOL BASED ON CRW'S PROPOSED**
11 **PLACEMENT OF TURBINES?**
12 A. The Waverly School will not have any exposure to activities associated with the
13 placement of turbine. The wind turbines are a minimum of 1.25 miles away from the
14 school, with haul and access roads being an additional 1.0 mile away. Construction,
15 operations, and delivery traffic activities will be far enough away to appropriately
16 minimize the exposure of Waverly School to the CRW project.
17 **Q. DOES THIS CONCLUDE YOUR TESTIMONY?**
18 A. Yes.