

Appendix 8 - Agency Correspondences

October 17, 2022

[UPDATE WITH AGENCY NAME]

[UPDATE WITH AGENCY ADDRESS]

[UPDATE WITH AGENCY CITY, STATE ZIP]

Re: SCS Carbon Transport LLC - Midwest Carbon Express Project

To **[Whom it May Concern or identified individual]**:

SCS Carbon Transport LLC (SCS) plans to construct approximately 320 miles of various diameter carbon dioxide (CO₂) transmission pipelines and associated facilities in portions of Burleigh, Cass, Dickey, Emmons, Logan, McIntosh, Morton, Oliver, Richland, and Sargent counties (Project). The Project will interconnect to a larger proposed interstate CO₂ pipeline network, referred to as the Midwest Carbon Express, to transport CO₂ to certain sequestration facilities located in Oliver and Mercer counties, North Dakota, where the CO₂ will be safely and permanently sequestered underground. Please see the attached Project Overview Map for additional Project details and location.

SCS plans to submit a combined application for a Certificate of Corridor Compatibility and Route Permit to the North Dakota Public Service Commission (Commission) for the Project pursuant to Chapter 49-22.1 of the North Dakota Century Code (Siting Act) and Article 69-06 of the North Dakota Administrative Code. In connection therewith, SCS has performed a detailed routing analysis for the Project, taking into consideration a significant amount of information to avoid and minimize impacts of known and suspected natural and cultural resources. The combined application is scheduled to be filed with the Commission in October of 2022.

On behalf of SCS, EXP Energy Services, Inc. (EXP) is notifying agencies regarding the proposed Project as required by the Siting Act. SCS and EXP respectfully request that you review the Project area and provide any comments or concerns your agency might have regarding the Project. Your comments are welcome and will assist in the regulatory process.

Should you have any questions or comments regarding the Project, please contact Jason Zoller, SCS Environmental Project Manager, at [REDACTED] or Jon Schmidt, EXP Project Manager at [REDACTED]

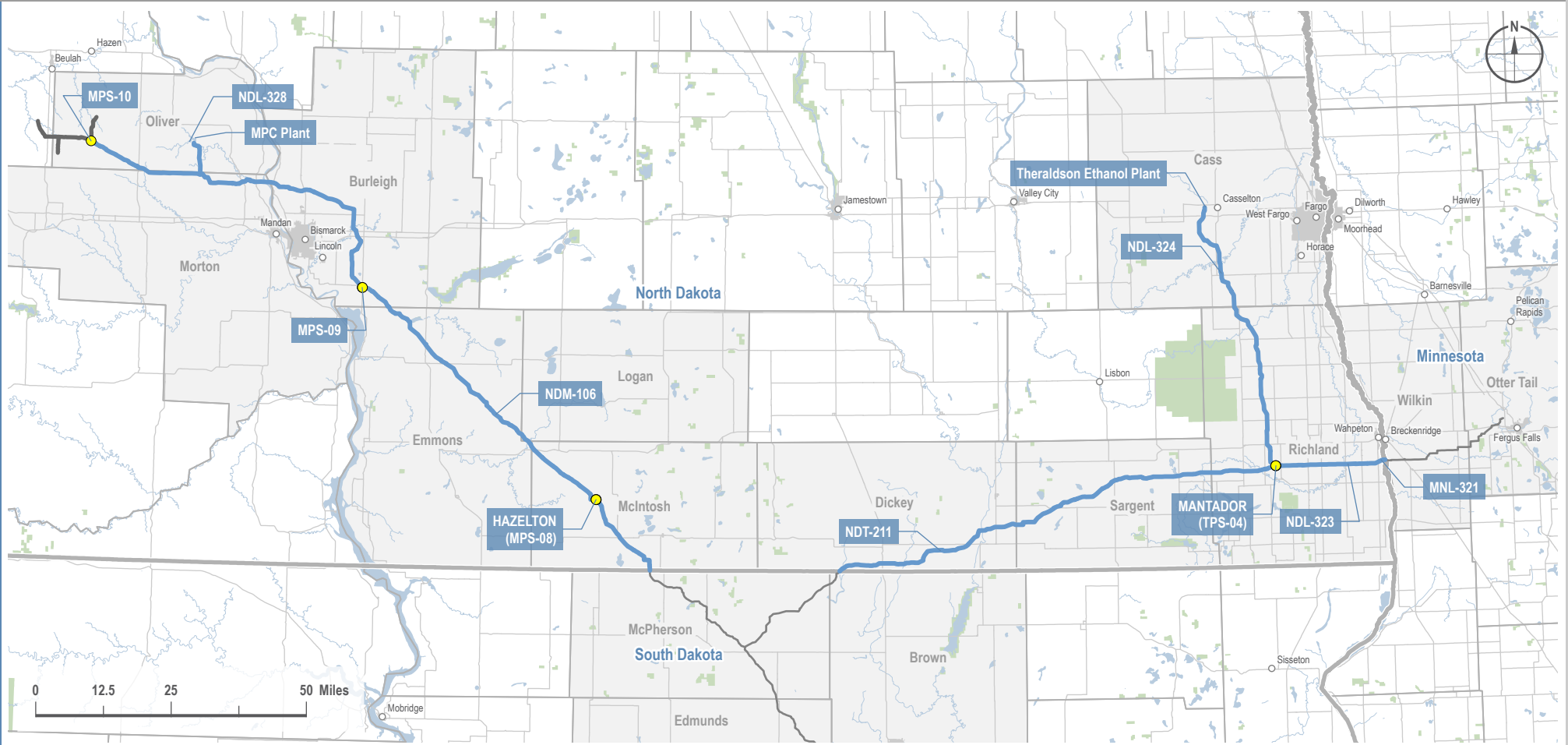
Sincerely,

John Satterfield
Director, Regulatory Affairs & ESG


Attachment:

- Project Overview Map

PROJECT OVERVIEW MAP - NORTH DAKOTA



Disclaimer: Content on this figure is preliminary, and must be treated as confidential and proprietary. Sources are believed to be reliable and SCS does not assume responsibility for accuracy of data.

VICINITY MAP	LEGEND	PREPARED BY	MIDWEST CARBON EXPRESS PROJECT				
	<ul style="list-style-type: none"> — Proposed Centerline — Summit Pipeline System ● Pump Station County Boundary State Boundary City / Town Urban Area Highway Sequestration Facilities under NDIC Authority ~ River / Stream Waterbody Federal Land 	<p>Summit Carbon Solutions 2321 North Loop Drive, Suite 221 Ames, Iowa 50010 United States of America www.summitcarbonsolutions.com</p>  <hr/> <p style="text-align: center;">REVISIONS</p> <p>Date: 2022-10-05 Revised by: CW Checked by: GY 0 - Issued for Use Issued figure for legal council review purposes</p>	<p style="text-align: center;">Project Overview Map North Dakota</p> <hr/> <p>Figure Title:</p> <hr/> <p>Figure Number: Figure 1.1</p> <hr/> <table border="1" style="width: 100%;"> <tr> <td style="width: 50%;"> <p>Scale: 1 : 1,750,000 1 inch equals 27.62 miles</p> </td> <td style="width: 50%;"> <p>Projection: Transverse Mercator NAD 1983 UTM Zone 14N</p> </td> </tr> <tr> <td> <p>Sheet: 1 1 of 1</p> </td> <td> <p>Drawing Number: 1003-01-007 Revision 0</p> </td> </tr> </table>	<p>Scale: 1 : 1,750,000 1 inch equals 27.62 miles</p>	<p>Projection: Transverse Mercator NAD 1983 UTM Zone 14N</p>	<p>Sheet: 1 1 of 1</p>	<p>Drawing Number: 1003-01-007 Revision 0</p>
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<p>Sheet: 1 1 of 1</p>	<p>Drawing Number: 1003-01-007 Revision 0</p>						

Path: I:\Projects\DAL-21015451-00 - SummitCarbon - MCE Project\0900 GEO\10_Mapping\02_Overview\01_General\1003-01-007_BW.aprx

<p>North Dakota Aeronautics Commission PO Box 5020 Bismarck, ND 58502</p>	<p>North Dakota Industrial Commission State Capitol 14th Floor 600 E. Boulevard Ave. Dept. 405 Bismarck, ND 58505</p>
<p>Attorney General 600 E. Boulevard Ave Dept. 125 Bismarck ND 58505</p>	<p>Office of Governor State of North Dakota 600 East Boulevard Avenue Bismarck ND, 58505</p>
<p>ND Department of Agriculture 600 E Boulevard Ave Dept 602 Bismarck ND 58505</p>	<p>North Dakota Department of Transportation 608 East Boulevard Avenue Bismarck, ND 58505</p>
<p>North Dakota Department of Health 600 East Boulevard Ave Bismarck, ND 58505</p>	<p>State Historical Society of North Dakota 612 East Boulevard Ave. Bismarck, North Dakota 58505</p>
<p>North Dakota Department of Human Services 600 E. Boulevard Ave., Dept 325 Bismarck ND 58505</p>	<p>North Dakota Indian Affairs Commission State Capitol Building 600 East Boulevard Avenue 1st Floor, Judicial Wing - Room #117 Bismarck, ND 58505</p>
<p>Department of Labor and Human Rights 600 East Boulevard Ave Dept 406 Bismarck, ND 58505</p>	<p>North Dakota Department of Commerce 1600 E. Century Ave., Suite 6 Bismarck, ND 58503</p>
<p>North Dakota Department of Career and Technical Education State Capitol 15th Floor 600 East Boulevard Avenue, Dept. 270 Bismarck, ND 58505</p>	<p>North Dakota Department of Trust Lands 1707 N 9th ST Bismarck, ND 58501</p>
<p>North Dakota Department of Commerce 1600 E. Century Ave. Suite 6, PO Box 2057 Bismarck, ND 58502</p>	<p>North Dakota Parks and Recreation Department 1600 East Century Ave., Suite 3 Bismarck, ND 58503</p>
<p>North Dakota Department of Trust Lands Energy infrastructure and impact office 1707 N 9th ST Bismarck, ND 58501</p>	<p>Natural Resources Conservation Service 220 East Rosser Avenue PO Box 1458 Bismarck, ND 58502</p>
<p>North Dakota Game and Fish Department 100 N. Bismarck Expressway Bismarck, ND 58501</p>	<p>Department of Water Resources 900 East Boulevard Avenue, Dept 770 Bismarck, ND 58505</p>

<p>US Department of Defense 1400 Defense Pentagon Washington, DC 20301</p>	<p>North Dakota Geological Survey Oil and Gas Division 600 East Boulevard Avenue, Dept 405 Bismarck, ND 58505</p>
<p>U.S. Fish and Wildlife Service Missouri River Fish and Wildlife Conservation Office 3425 Miriam Ave Bismarck, ND 58501</p>	<p>North Dakota Forest Service 916 E Interstate Avenue, Suite 4 Bismarck, ND 58503</p>
<p>United States Fish and Wildlife Service Ecological Services 3425 Miriam Ave Bismarck, ND 58501</p>	<p>Bureau of Land Management 99 23rd Avenue West, Suite A Dickinson, ND 58601</p>
<p>United States Army Corps of Engineers Omaha District, North Dakota Regulatory Office 3319 University Drive Bismarck, ND 58504</p>	<p>North Dakota Department of Environmental Quality 4201 Normandy Street Bismarck, ND 58503</p>
<p>Federal Aviation Administration 2300 E Devon Ave Des Plaines, IL 60018-4696</p>	<p>Military Aviation and Installation Assurance Siting Clearinghouse 3400 Defense Pentagon, Room 5C646 Washington, DC 20301</p>
<p>North Dakota County Commissioners Association P.O. Box 877 1661 Capitol Way Bismarck, ND 58502</p>	<p>Minot Air Force Base Twentieth Airforce Ninety-First Missile Wing 196 Missile Avenue Minot AFB, ND 58705</p>
<p>North Dakota Transmission Authority 600 E. Boulevard Ave. Dept. 405 Bismarck, ND 58505</p>	<p>Minot Air Force Base 196 Missile Avenue Minot AFB, ND 58705</p>
<p>North Dakota Industrial Commission Pipeline Authority State Capitol 14th Floor 600 E. Boulevard Ave. Dept. 405 Bismarck, ND 58505</p>	<p>Grand Forks Air Force Base 226 Steen Blvd, Bldg. 812 Grand Forks AFB, ND 58205</p>

Abby Peyton

From: Clark, Andrew [REDACTED]
Sent: Monday, October 11, 2021 3:33 PM
To: Abby Peyton
Cc: Meidinger, Lorna B.
Subject: RE: Midwest Carbon Express Project - Scope of Work

Good afternoon Abby,

We reviewed the scope of work and found it acceptable. I'm Cc'd Lorna Meidinger on this email. She is our Architectural Historian and the primary point-of-contact for PSC projects. Please include her in project emails.

If you need anything additional from me, please feel free to reach out.

Best regards,

Andy

Andrew Clark, PhD
Chief Archaeologist
Archaeology and Historic Preservation Division
State Historical Society of North Dakota
612 East Boulevard Avenue
Bismarck, North Dakota 58505-0830
[REDACTED]

From: Abby Peyton [REDACTED]
Sent: Friday, October 1, 2021 4:48 PM
To: Clark, Andrew [REDACTED]
Subject: RE: Midwest Carbon Express Project - Scope of Work

***** **CAUTION:** This email originated from an outside source. Do not click links or open attachments unless you know they are safe. *****

Good afternoon Andy – just wanted to check in on you review status of our submitted scope of work. Any feedback is appreciated – thank you and hope you have a good weekend.



Abby Peyton, MA, RPA
Cultural Resources Director

Perennial Environmental Services, LLC
5424 W Highway 290, Suite 208, Austin, Texas 78735
Office [REDACTED] Mobile [REDACTED]
[REDACTED] www.perennialenv.com

From: Abby Peyton

Sent: Tuesday, September 14, 2021 4:42 PM

To: Clark, Andrew [REDACTED]

Cc: Megan Cochran [REDACTED]; Christopher Hill [REDACTED]; Erin Salisbury [REDACTED]; Jenn Cochran [REDACTED]

Subject: Midwest Carbon Express Project - Scope of Work

Good afternoon Mr. Clark – Perennial Environmental Services, LLC on behalf of Summit Carbon Solutions submits the attached scope of work for the proposed Midwest Carbon Express Project for your review and input in advance of Class III field surveys. Please feel free to contact me with any additional data needs.

Thank you,



Abby Peyton, MA, RPA
Cultural Resources Director

Perennial Environmental Services, LLC
5424 W Highway 290, Suite 208, Austin, Texas 78735
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[REDACTED] www.perennialenv.com



September 14, 2021

Mr. Andrew Clark
Chief Archeologist
State Historical Society of North Dakota
612 East Blvd Ave
Bismarck, North Dakota 58505

Re: Midwest Carbon Express Project; Class III Scope of Work Review Request

Dear Mr. Clark:

Summit Carbon Solutions (SCS) intends to construct a carbon dioxide (CO₂) capture, pipeline, and sequestration project identified as Midwest Carbon Express Project (MCE) located in North Dakota, South Dakota, Nebraska, Minnesota, and Iowa. MCE consists of the construction of approximately 1,951.3 miles (mi) (3,140.3 kilometers [km]) of new pipelines extending from various ethanol plants and CO₂ capture facilities, 11 pump stations, several metering stations, and Class VI sequestration wells. Specifically, the portion of the Project in North Dakota includes approximately 302.9 mi (487.5 km) of mainline and laterals that will cross portions of Burleigh, Cass, Dickey, Emmons, Logan, McIntosh, Oliver, Richland, and Sargent Counties. The Project will require a permit pursuant to Section 10 of the Rivers and Harbors Act, and Section 404 of the Clean Water Act, and may also require additional consultation and/or permitting with the U.S. Fish and Wildlife Service (USFWS) once those crossings are identified. Additionally, the Project is subject to the statutory authority of the North Dakota Public Service Commission (PSC). As such, the PSC certification review and approval process requires 100 percent cultural field surveys for projects within North Dakota.

On behalf of SCS, Perennial Environmental Services, LLC (Perennial) has prepared the enclosed scope of work that outlines the Class III survey methods in addition to artifact collection and site recordation strategies, and reporting protocols that will be utilized for the MCE Project. Cultural resource investigations will be conducted in compliance with Section 106 of the NHPA of 1966 (Public Law [PL] 89-665), as amended; its implementing regulations, "Protection of Historic and Cultural Properties" (36 CFR 800); the National Environmental Policy Act of 1969 (NEPA) (PL 91-190. 83 Stat. 852), and the guidelines set forth by the State Historical Society of North Dakota.

To ensure compliance with Section 106 of the NHPA, SCS is soliciting input from your office regarding the enclosed scope of work. We appreciate your assistance with this Project. Should you have any questions or require additional information, please do not hesitate to contact me at (512) 358-0330 or by email at apeyton@perennialenv.com.

Sincerely,

Abby Peyton, MA, RPA
Cultural Resources Director
Perennial Environmental Services, LLC

Cc: Chris Hill, Summit Carbon Solutions and Erin Salisbury, EXP

Scope of Work – Class III Cultural Resources
Inventory of the Midwest Carbon Express Project:
Brown, Burleigh, Cass, Dickey, Emmons, Logan,
McIntosh, McPherson, Oliver, Richland, and
Sargent Counties, North Dakota

Midwest Carbon Express

Type of Document:

Draft Scope of Work

Project Number:

TAL-2105451-00

Prepared:

Abby Peyton
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Reviewed By:

Jennifer L. Cochran, Perennial Environmental Services, LLC
Erin Salisbury, EXP Energy Services

Approved By:

Christopher Hill, Summit Carbon Solutions LLC

Document Number: SCS-0700-ENV-01-PLN-007

Date + Time Submitted:

2021-09-14

Legal Notice

This report was prepared by Perennial Environmental Services, LLC.

Any use a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties. Perennial Environmental Services, LLC cannot be held liable for damages suffered, if any, by any third party as a result of decisions made or actions based on this report.

REVISION HISTORY

DATE	REVISION	REVISION DESCRIPTION	PREPARED BY:	REVIEWED BY:	APPROVED BY:
08-27-2021	A	Prepare ND Plan	AP	ES	
09-09-2021	0	Incorporate Comments	AP	ES	

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1 Introduction

Summit Carbon Solutions (SCS) intends to construct a carbon dioxide (CO₂) capture, pipeline, and sequestration project identified as Midwest Carbon Express Project (MCE) located in North Dakota, South Dakota, Nebraska, Minnesota, and Iowa. MCE consists of the construction of approximately 1,951.3 miles (mi) (3,140.3 kilometers [km]) of new pipelines extending from various ethanol plants and CO₂ capture facilities, 11 pump stations, several metering stations, and Class VI sequestration wells. Specifically, the portion of the proposed Project in North Dakota includes approximately 302.9 mi (487.5 km) of mainline and laterals that will cross portions of Burleigh, Cass, Dickey, Emmons, Logan, McIntosh, Oliver, Richland, and Sargent Counties. The Project will require a permit pursuant to Section 10 of the Rivers and Harbors Act, and Section 404 of the Clean Water Act. Additionally, the Project is subject to the statutory authority of the North Dakota Public Service Commission (PSC). As such, the PSC certification review and approval process requires 100 percent cultural field surveys for projects within North Dakota. SCS also understands the importance of tribal involvement during the inventory phase. As such, Tribes have been afforded the opportunity to participate in the archaeological surveys. In addition, Tribes will also be invited to conduct Traditional Cultural Property studies in 2022.

Consistent with USACE and PSC application requirements, and in accordance with Section 106 of the National Historic Preservation Act (NHPA) of 1966, as amended (36 CFR 800) and the North Dakota Century Code, the proposed Project must make a reasonable and good faith effort to identify historic properties within the Area of Potential Effect (APE) and to take into account any direct or indirect effects the proposed undertaking could have on properties listed or considered eligible for listing in the National Register of Historic Places (NRHP). On behalf of SCS, Perennial Environmental Services, LLC (Perennial) has prepared the following scope of work that outlines the Class III Inventory field survey methods, artifact collection and site recordation strategies, and reporting protocols that will be utilized by Perennial for the Project.

Perennial has been contracted to conduct the Class III cultural resources survey for the proposed Project under the direction of Principal Investigator Jennifer L. Cochran (Company ID 239).

The APE for direct effects will include the pipeline mainline and laterals as well as the total footprint for aboveground facilities (e.g., pump stations, metering stations), access roads, temporary workspace areas, and any required staging yards. At present, the APE for direct effects has not been finalized, as the Project is currently in the preliminary design phase, and SCS is continuing to evaluate and refine the proposed pipeline route and workspace needs. To accommodate changes to the Project footprint at the discretion of SCS, survey efforts will be expanded to cover a 200.0-foot- (ft-) wide corridor where the construction right-of-way (ROW) is between 80 and 90 ft wide and a 300.0-foot- (ft-) wide (91.4-meter- [m-]) corridor where the construction ROW is between 90 and 110 ft wide for its environmental survey area (ESA) for the proposed pipeline mainline and laterals, a 50-ft- (15.0-m-) wide corridor for access roads, and the total footprint of any aboveground facilities (i.e., pump station, meter stations, and sequestration wells), and any offline workspaces or laydown yards. The Appendix A mapping reflects a 300-ft-wide corridor for all routes, which is what will be surveyed until the route is further refined. At that time, and when construction corridor widths are identified, a 200-ft-wide corridor would be surveyed as previously stated.

To date, access roads contractor yards, and the sequestration well locations have not been identified for the Project. A proposed sequestration evaluation area has been included in the Project mapping presented in Appendix A. Perennial intends to survey any newly identified Project components as they become available or minor changes in location or configuration of Project components under the same methods outlined in this scope.

Depths of impact are anticipated to range from 5.0 to 8.0 ft (1.5 to 2.4 m) below ground surface for the pipeline installation trench, with shallower depths of impact anticipated for access roads, temporary workspace areas, and staging yards. Deeper impacts may occur at any proposed Horizontal Directional Drill (HDD) or bore locations along the corridor. The Project ESA in North Dakota, as currently proposed, totals approximately 11,012.7 acres (ac) (4,456.6 hectares [ha]).

The APE for indirect effects will apply to any new aboveground facilities to be constructed for the Project, and will include areas from which any permanent aboveground facilities have the potential to visually diminish or alter the setting of an NRHP-listed or -eligible property. The APE for indirect effects will consist of a review radius ranging between 0.5 mi (0.8 km) and 1.0 mi (1.6 km) for any above ground facilities. Only historic properties within visible range of the proposed permanent aboveground facilities will be evaluated. At this time, the locations of above ground facilities have not been finalized.

The comprehensive survey plan detailed herein includes a Class I Inventory of previously documented cultural resources, cemeteries, historic resources, and cultural surveys within a 1.0-mi (1.6-km) radius of the Project ESA, and a detailed survey methodology for the proposed Project. The objectives of this survey are four-fold: (1) locate and/or reassess cultural resource

sites within the Project ESA; (2) delineate the vertical and horizontal extents of any newly identified sites and reassess the horizontal and vertical extents of any previously recorded sites within the Project ESA; (3) provide a preliminary evaluation of each site's eligibility for listing in the NRHP; and (4) assess any potential for the Project to directly or indirectly affect historic properties or other sensitive cultural resources.

Cultural resource investigations will be conducted in compliance with Section 106 of the NHPA of 1966 (Public Law [PL] 89-665), as amended; its implementing regulations, "Protection of Historic and Cultural Properties" (36 CFR 800); the National Environmental Policy Act of 1969 (NEPA) (PL 91-190. 83 Stat. 852); and the survey guidelines set forth by the State Historical Society of North Dakota (SHSND).

Surveys across any private and state-owned properties are covered under Perennial's Annual Permit to conduct Cultural Resource Investigations (North Dakota Century Code [NDCC] 55-03-01 and 55-03-01.1 and North Dakota Administrative Code [NDAC] 40-02-02). Additionally, in the event that the proposed Project traverses any federally-owned property, that portion of the Project would also fall under the jurisdiction of the respective federal agency that oversees the federal property or properties. As with a federal entity, a permit under the Archaeological Resources Protection Act of 1979 (16 U.S.C. 470aa-mm; 43 CFR 7) (ARPA) may be needed prior to conducting cultural resource investigations across these federal properties. At this time, the current Project ESA is not known to cross any federal properties.

2 Class I Literature Search

On August 10, 2021, the SHSND provided background review records, including forms and spatial data within a 10.0-mi (16.1-km) review radius for the Project in accordance with an established Memorandum of Agreement (MOA) between Perennial and the SHSND. Specifically, previously recorded data for archeological sites, isolated finds, site leads, cemeteries, historic structures, properties listed in the NRHP within 1.0 mi (1.6 km) of the Project ESA is provided herein. Additionally, the background study included the review of previously recorded cultural resource site forms, Cultural Heritage Forms, reports of archaeological investigations, and general historical documents.

In addition to a records and literature search, archaeologists gathered information from secondary sources concerning the prehistoric and historic background of the area. Documents associated with the history of the area were used to model prehistoric and historic settlement patterns in relation to the landscape and terrain characteristics as well as cultural patterns and regional trends. Natural Resources Conservation Service (NRCS) soil data, U.S. Geological Survey (USGS) 7.5-minute topographic quadrangles, aerial photographs, and contemporary geologic and physiographic features were also examined.

North Dakota is divided into 13 Archeological Study Units based on areas with similar environmental, historical, and archaeological factors (SHSND. 2016). The Project falls within the Southern Missouri River, the James River, and the Southern Red River Study Units. The physiological, ecological, and archeological diversity of each region will be thoroughly examined prior to field efforts in order to help inform crews of the types of landscape and archeological sites that may be present within each region. A detailed discussion of each study region will be presented in the Class III Inventory report.

The results of the background review including tables detailing previously recorded sites, surveys, historic standing structures, cultural heritage sites, and cemeteries are provided in Appendix 2.

The background review also determined that a total of 110 previous archaeological studies have been conducted within a 1.0-mi (1.6-km) radius of the Project ESA (Appendix 3). Eighty-two of the 110 studies overlap or intersect portions of the Project ESA. The vast majority of these archaeological investigations consist of Class II and Class III Inventory surveys for large-scale energy infrastructure projects. Seventy-eight of these studies only intersect very small portions of the Project ESA. The remaining four studies (Report IDs 107, 2477, 10446, and 15864) consist of large block surveys overlapping with more substantial portions of the Project ESA. However, three of these surveys were conducted before 2008 and may not have been conducted in accordance with current SHSND survey standards. As such, Perennial plans to survey the entirety of the Project ESA (including previously surveyed areas) to ensure compliance with the SHSND survey standards.

3 Field Methods

The cultural resources survey will be performed for 100 percent of the Project ESA, including all Project workspaces and access roads. Surveys will be performed by two to three field crews under the supervision of the Principal Investigator. The survey methods employed across the Project ESA will vary according to setting, with shovel testing conducted according to protocols set forth by the SHSND survey standards and based on archaeological site probability and patterning, ground surface visibility,

and prevalence of modern disturbances (i.e., industrial infrastructure, agricultural cultivation, etc.). Any deviations from the state survey standards will be thoroughly documented via photo-documentation.

For those portions of the Project ESA where ground surface visibility exceeds 15-25 percent, pedestrian surveys will be conducted on transect intervals spaced no greater than 50.0 ft (15.0 m) apart. Transects will be walked in a serpentine manner to allow for maximum inspection of the ground surface. In those areas where vegetation or snow cover obscures ground visibility, shovel testing would be conducted along transect intervals spaced no more than 50.0 ft (15.0 m) apart. Subsurface testing will not be performed when the ground is frozen. Additionally, for high probability settings such as major waterways and tributary crossings, alluvial terraces, natural levees, benches, and topographic rises in floodplain settings (relatively unaffected by natural or human-induced processes), or proximity to previously recorded sites, historic structures, roads or trails, at least two shovel tests will be conducted in these locations to examine the potential for buried, intact deposits. In the event that additional shovel tests are warranted, the shovel testing interval utilized would be no greater than 50.0-ft (15.0-m) apart.

In general, shovel tests will measure approximately 12.0 in (30.0 cm) in diameter and will be excavated by natural strata along parallel transects no more than 50.0 ft (15.0 m) apart. Shovel tests will be excavated to a depth commiserate with the Project impacts where possible, or to where pre-Holocene sterile substrates are encountered, if possible, unless manual shovel testing is unable to penetrate hard clay soils. All soil matrices will be sifted through 0.25 inch (in) (6.30-millimeter [mm]) mesh hardware cloth unless dominated by clay. Clayey matrices will be finely divided by trowel and visually inspected. For each of the shovel tests, the following information will be recorded on shovel test logs: location, maximum depth, and the number of soil strata. For each soil stratum, thickness, texture, color, and the presence or absence and nature of cultural materials will be recorded.

The field crew will record all shovel test locations, isolated finds, archaeological sites, and associated features using a handheld GPS device with sub-meter accuracy. In addition, each archaeologist will be equipped with a compass, shovel test and photographic logs, daily journal forms, and appropriate state site forms. The crew will be equipped with topographic maps and aerial photographs of the survey area, a digital camera, a cellular telephone to maintain contact with the office support team (terrain permitting), and a locator beacon (in case of emergency).

If an archaeological site or historic-age structure is identified within the Project ESA, the appropriate delineation techniques will be systematically applied to identify the horizontal and vertical limits of each site's boundary. Site boundaries may be determined based on surface artifact density, the presence or lack of subsurface components, or historic-age structures or features on the landscape. For subsurface sites, a series of shovel tests will be excavated radiating in the four cardinal directions or, if more appropriate, along perceived major and minor topographic and site axes. In practice, shovel tests within potential sites will be placed along transects at 16.5- to 33.0-ft (5.0- to 10.0-m) intervals to determine the depth and potential integrity of cultural deposits and to carefully examine for the presence of intact archaeological features and/or discrete episodes of occupation. In the absence of subsurface deposits, controlled pedestrian surface inspections will be conducted and site boundaries defined based on a marked reduction in surface artifact density. Shovel testing or pedestrian surveys will not be conducted beyond the Project ESA boundary to ensure no trespassing onto private property occurs.

The survey efforts will also include the re-visit and assessment of any previously recorded sites or historic-age standing structures or features mapped within the Project ESA. The original mapped boundaries of these sites will be confirmed, and additional efforts will be conducted to assess the nature, integrity, and extent of the site within the ESA boundary.

In addition to shovel testing, a hand-operated auger may also be utilized, if warranted, in select locales with alluvial sediments or known archaeological site deposits to probe for buried cultural materials or buried horizons below a depth of 3.3 ft (1.0 m). A hand-operated bucket auger with a 5.0-in opening will be used to excavate the auger holes. Sediments will be removed in approximately 10.0-cm levels. All soil will be screened through 0.25-in mesh hardware cloth. The presence of artifacts, charcoal, and general soil characteristics (e.g., texture, Munsell colors, etc.) will be recorded by individual level.

If the auger probes reveal that buried horizons or evidence of cultural materials are present at depths below shovel testing capabilities (i.e., 3.0 ft), then additional work in the form of deep testing may be warranted to adequately assess these deposits with respect to proposed Project impacts. In practice, survey crews will flag any areas where deep alluvial sediments exist below the depths capable of excavation with shovel testing efforts (i.e., horizons below 1.6 ft [0.5 m] deep). If deep alluvial settings are identified during survey efforts, deep testing in the form of 3.3-ft by 3.3-ft (1.0-m by 1.0 m) units or backhoe trenching will be necessary in order to evaluate these areas for potential deeply buried cultural deposits. Should it be determined that deep testing is warranted, Perennial will initiate further consultation with the SHSND specific to these efforts.

Should potentially significant archaeological sites be documented within the direct APE as a result of these investigations, SCS may opt to implement construction-based avoidance measures. Measures such as rerouting, boring, or HDD may be proposed to avoid impacts to significant sites and will be discussed with the SHSND during the planning phases of the Project.

Perennial's survey strategy for artifact collection will consist of limiting artifact collection to the greatest extent possible. Perennial's Principal Investigator will conduct a thorough analysis of cultural materials observed during survey efforts. In the event that the collection of temporally diagnostic artifacts is necessary, the materials will be temporally housed at Perennial's Austin laboratory until the completion of the Section 106 process. Any collected artifacts on state or federal lands will then be catalogued, analyzed, and prepared for submittal to an approved permanent curatorial facility. Materials collected from private lands will be returned to the landowners.

3.1 Historic Structure Documentation

All historic-age structures (i.e., older than 50 years) located within the Project ESA will be thoroughly documented during the survey efforts. North Dakota Cultural Resources Survey (NDCRS) forms will be completed for each resource. The historic structures will be adequately photo-documented, sketch maps will be drawn, and each resource will be plotted with a GPS device. Shovel tests would also be excavated at 10.0-m (32.8-ft) radiating around the structure to determine if an archeological component is associated with the structure. All data will be reviewed by a qualified architectural historian to determine date of construction, style, integrity, and overall significance and NRHP eligibility.

3.2 Viewshed Analysis

As the majority of the Project components will be below-ground, viewshed analysis will only be conducted at proposed permanent aboveground facilities. The locations of the aboveground facilities have not been finalized. Perennial will assess any indirect effects associated with these Project components as they are finalized.

For all new permanent aboveground facilities, investigations will include an initial desktop analysis of the built environment within a 0.5 to 1.0-mi (0.8 to 1.6-km) radius. Using the results of the desktop analysis, features within the built environment that are identified as being historical or potentially historic in age within the viewshed radius will be reviewed through aerial photography, historical topographic maps, and on-the-ground assessment.

The Principal Investigator will consult with a professional architectural historian to determine if the built environmental feature is in fact historic in age. If the resource is determined to be historic in age, the photographic inventory and any additional collected data will be provided to the architectural historian to conduct the assessment for the resource to determine if the proposed above-ground Project components would constitute an adverse indirect impact to NRHP-eligible resources. Perennial has retained Gene Ford, a Secretary of the Interior Qualified Architectural Historian, to conduct these assessments if warranted.

4 Laboratory Methods

Standard analytical techniques and existing typologies, as appropriate for upper midwestern prehistoric and historic archaeological studies, will be employed. This task will also include the completion of site forms for newly recorded or revisited archeological resources and NDCRS forms for any historic standing structures. The draft site and NDCRS forms will be submitted for review and approval to SHSND prior to the submittal of the draft Class III report.

Artifacts may be returned to landowners at their request; however, all associated records, including complete catalogues of artifacts, will be curated at a suitable curatorial facility pursuant to the standards and guidelines set forth by the SHSND.

5 Reporting

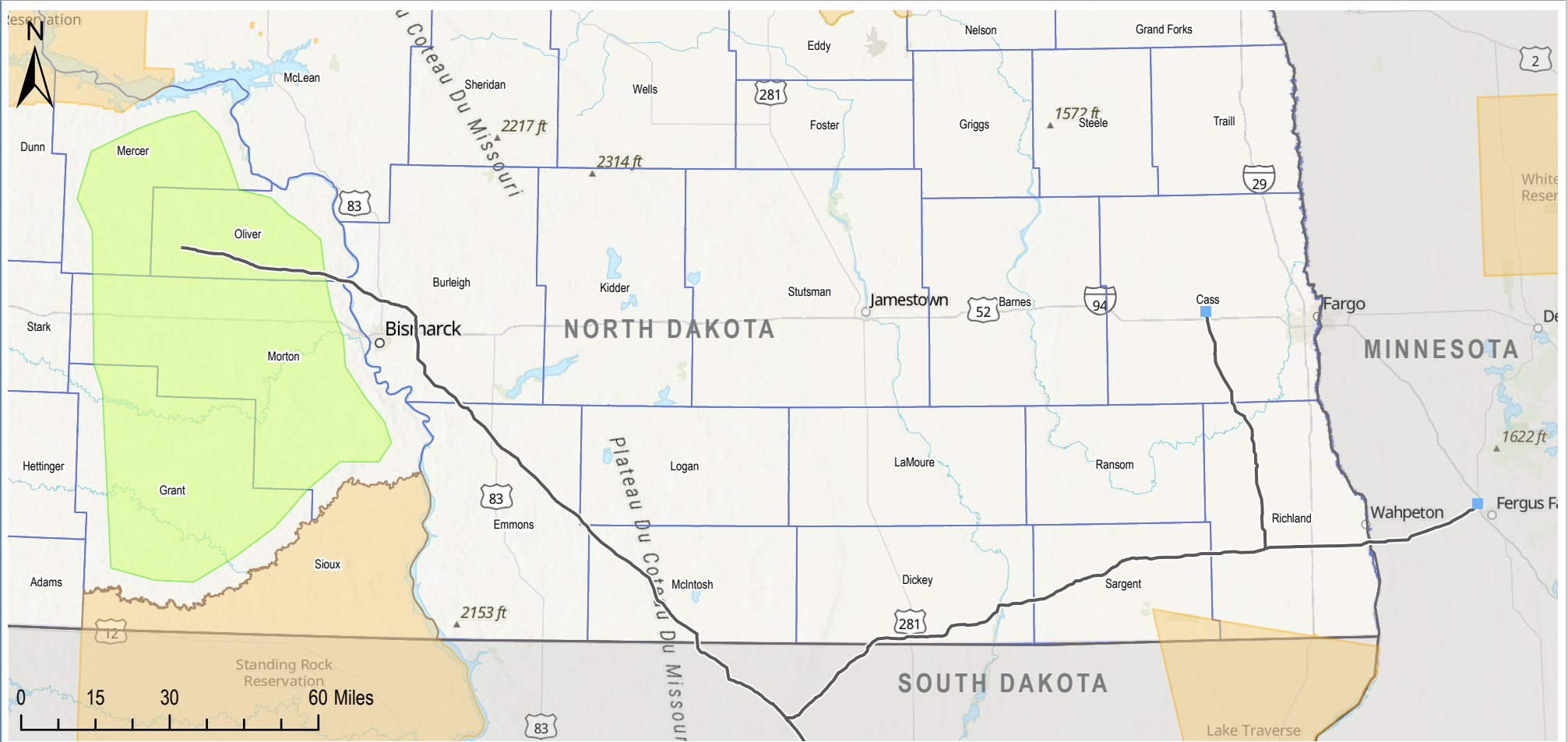
Following the completion of the field surveys, Perennial will prepare a report documenting the results of the investigations. Addendum reports may also be prepared to detail the results of surveys for reroutes or across restricted-access tracts. The format of the reports will adhere to reporting guidelines set forth in the North Dakota SHPO Guidelines Manual for Cultural Resources Inventory Projects provided by the SHSND. The reports will document the results of the Class I Inventory for the area, background cultural setting, the methodology used during the investigations, the general nature and extent of cultural resources encountered during the cultural resource survey, and management recommendations for any documented cultural resources per all applicable state and federal laws. Once SCS approves the reports, the report and associated Project shapefiles will be submitted to the SHSND for review. Following the agency review periods, any appropriate edits or comments will be incorporated, and final draft reports will be produced and distributed appropriately.

6 Human Remains


The discovery of unmarked burials or human remains on state and private lands in North Dakota must be reported as required under North Dakota Century Code (NDCC) 23-06-27. The process and procedures for dealing with burials and human remains are outlined in the North Dakota Administrative Code (NDAC) 40-02-03 -Protection of Prehistoric and Historic Human Burial Sites, Burial Remains, and Burial Goods. In the event that human remains are encountered on state and private lands during any part of the Class III Inventory survey effort, all work will stop immediately and all remains and any associated burial goods will be left in place at the location of the find. The appropriate local law enforcement personnel and representatives from SHSND will be notified of the discovery immediately. The SHSND will notify the North Dakota Department of Health as well as the North Dakota Intertribal Reinterment Committee if the remains are believed to be American Indian. If human remains are discovered on federal lands, the lead federal agency will claim jurisdiction of the discovery and will commence consultation with any concerned parties including landowners, appropriate tribes, and/or living descendants to ensure compliance with existing state and federal laws. No remains will be removed from the site until jurisdiction has been established. An Unanticipated Discoveries Plan for Human Remains detailing Project specific procedures for dealing with the discovery of burials or human remains will be provided with the Class III Inventory report.

Appendix A – Mapping

PROJECT OVERVIEW MAP - NORTH DAKOTA

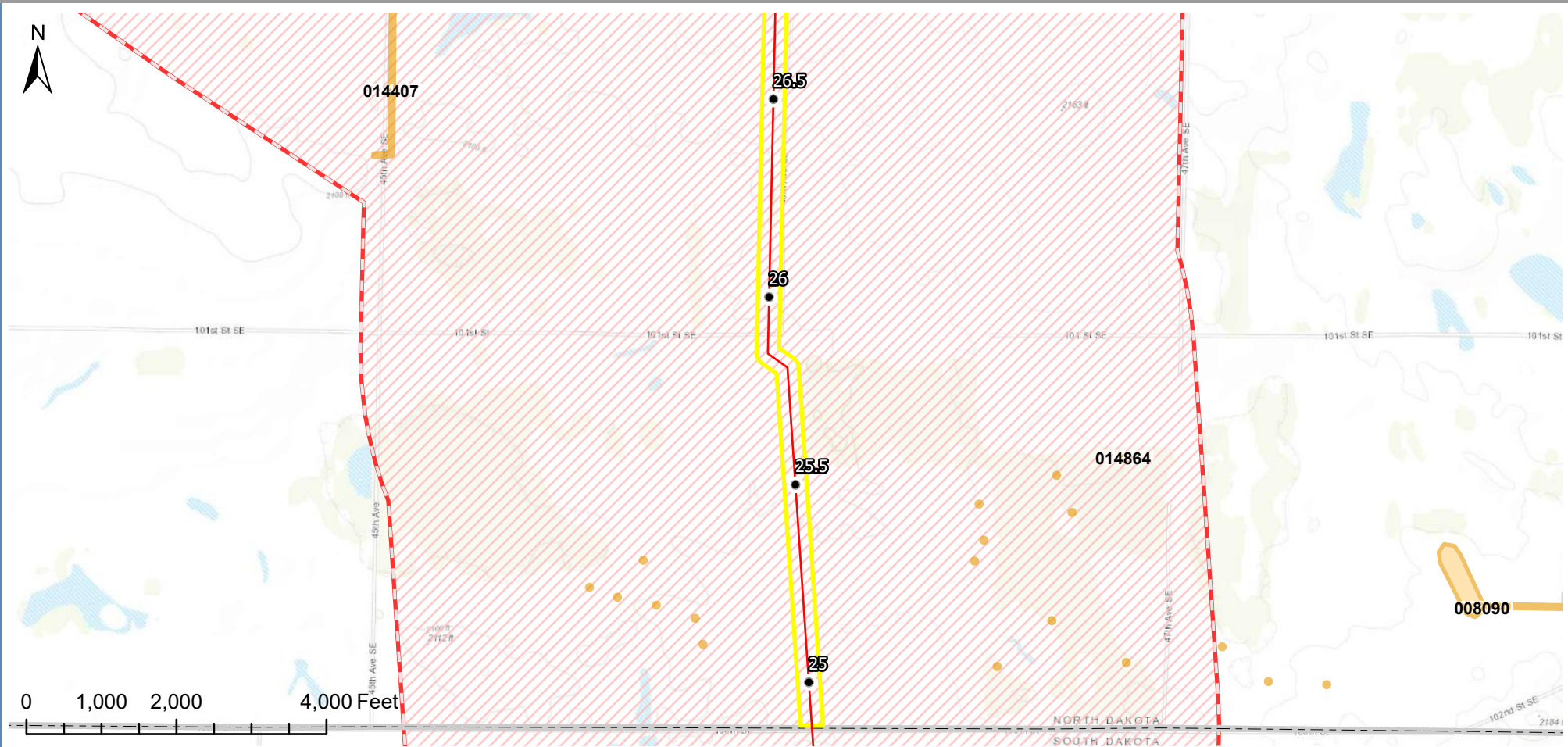


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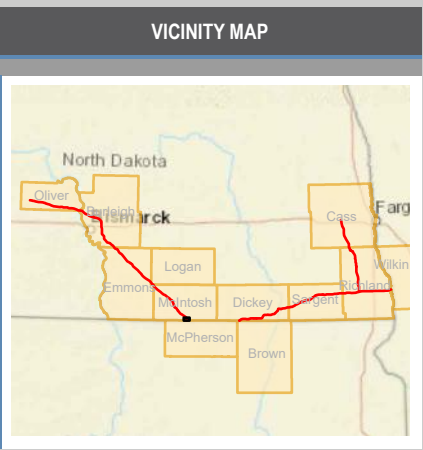
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	<ul style="list-style-type: none"> ■ Proposed Capture Facility — Proposed Routes (2021-08-26) State Boundary County Boundary American Indian Reservation or Trust Land Sequestration Evaluation Area (Site TBD) 	<p>Summit Carbon Solutions 1805 Collaboration Place, Suite 1200 Ames, Iowa 50010 United States of America www.summitcarbonsolutions.com</p> 	<p>MIDWEST CARBON EXPRESS PROJECT</p> <p>Figure Title: Project Overview Map - North Dakota</p> <p>Figure Number: Figure 1</p> <table border="1"> <tr> <td>Date: 2021-08-27 A - Issued for Review Issued figure for agency review purposes.</td> <td>Revised by: CW Checked by: PD</td> <td>Scale: 1 : 1,912,500 1 inch equals 30.18 miles</td> <td>Projection: Transverse Mercator NAD 1983 UTM Zone 14N</td> </tr> <tr> <td>Date: 2021-09-07 B - Issued for Review Revised figure for agency review purposes.</td> <td>Revised by: CW Checked by: PD</td> <td>Sheet: 1 1 of 1</td> <td>Drawing Number: 1002-01-002 Revision B</td> </tr> </table>	Date: 2021-08-27 A - Issued for Review Issued figure for agency review purposes.	Revised by: CW Checked by: PD	Scale: 1 : 1,912,500 1 inch equals 30.18 miles	Projection: Transverse Mercator NAD 1983 UTM Zone 14N	Date: 2021-09-07 B - Issued for Review Revised figure for agency review purposes.	Revised by: CW Checked by: PD	Sheet: 1 1 of 1	Drawing Number: 1002-01-002 Revision B
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BACKGROUND REVIEW RESULTS MAP - NORTH DAKOTA



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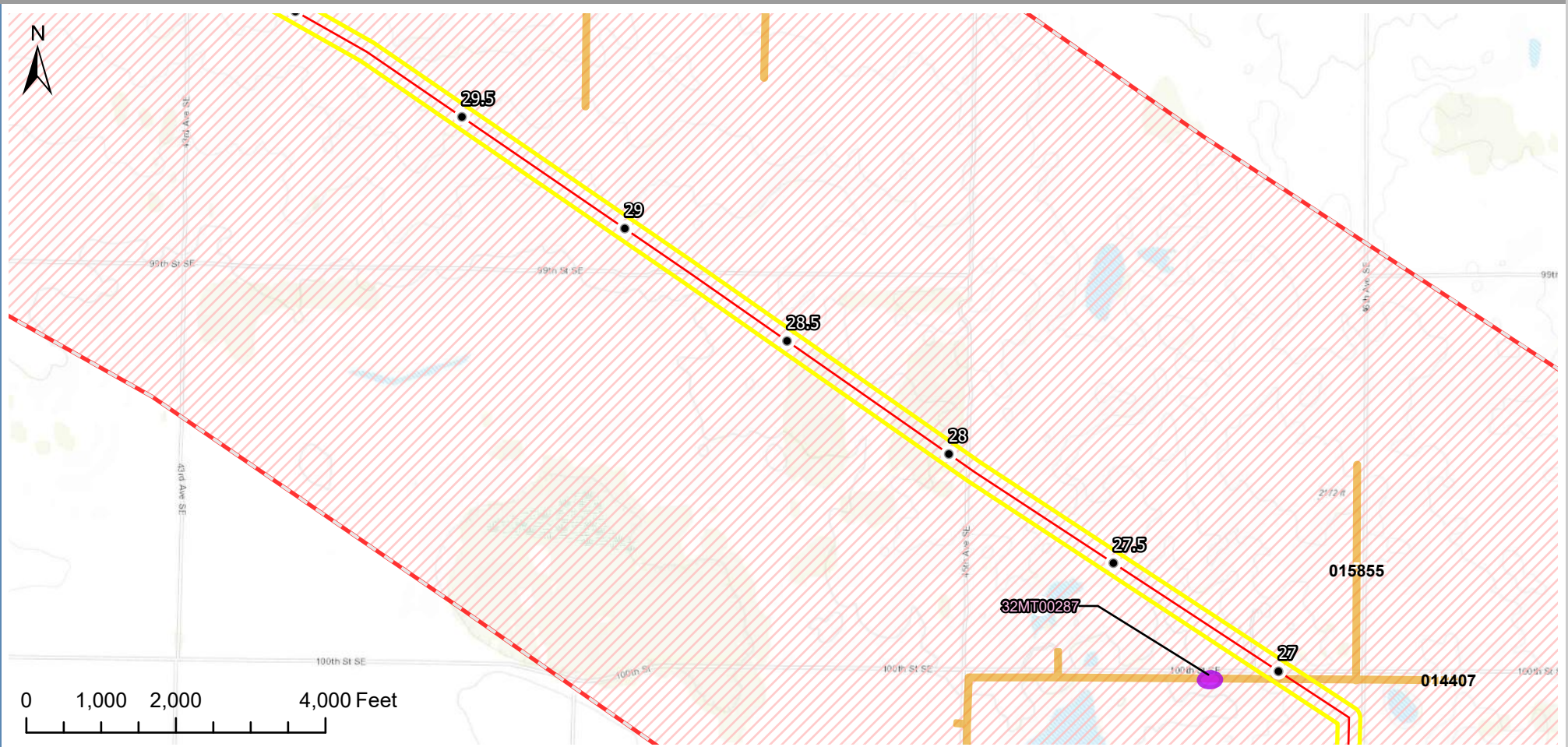
LEGEND

● Milepost	▨ 1-Mile Buffer
● Historical Structure	■ Cultural Heritage Resource
● Previously Recorded Site	■ Previously Recorded Site
— Main Line	■ Previous Survey
— Lateral Line	■ Sequestration Site Evaluation Area (Site TBD)
— Trunk Line	▭ County Boundary
▭ Project ESA	

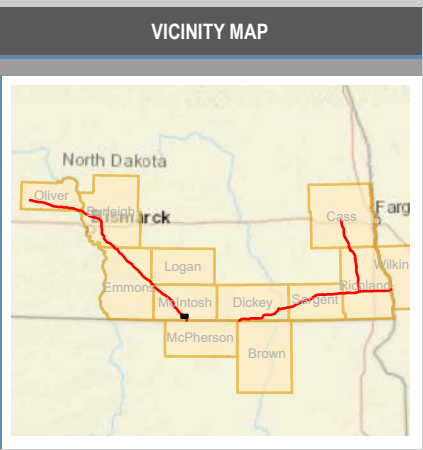
PREPARED BY		
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REVISIONS		
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BACKGROUND REVIEW RESULTS MAP - NORTH DAKOTA



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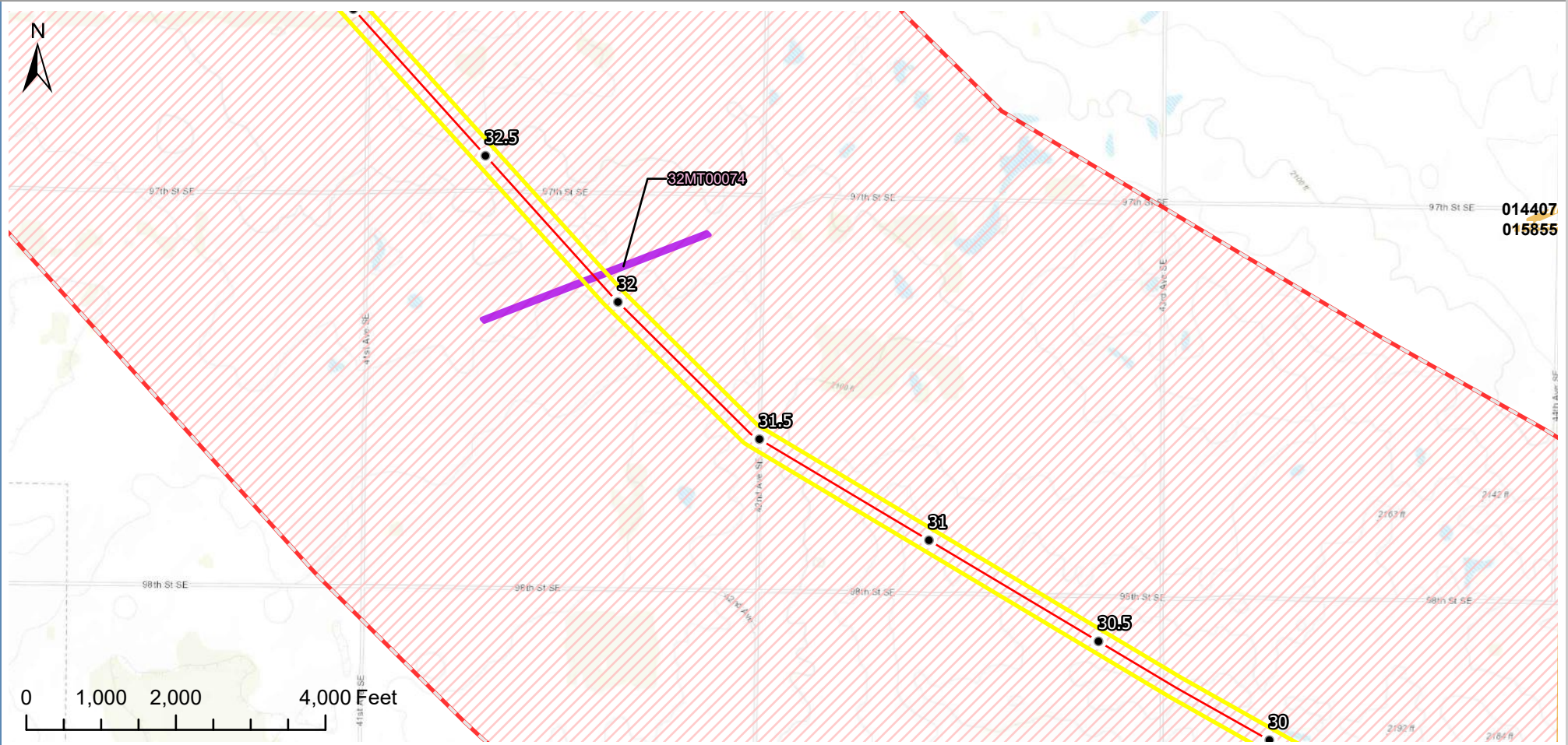
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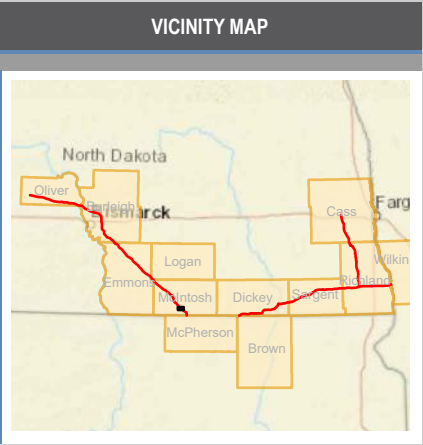
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BACKGROUND REVIEW RESULTS MAP - NORTH DAKOTA



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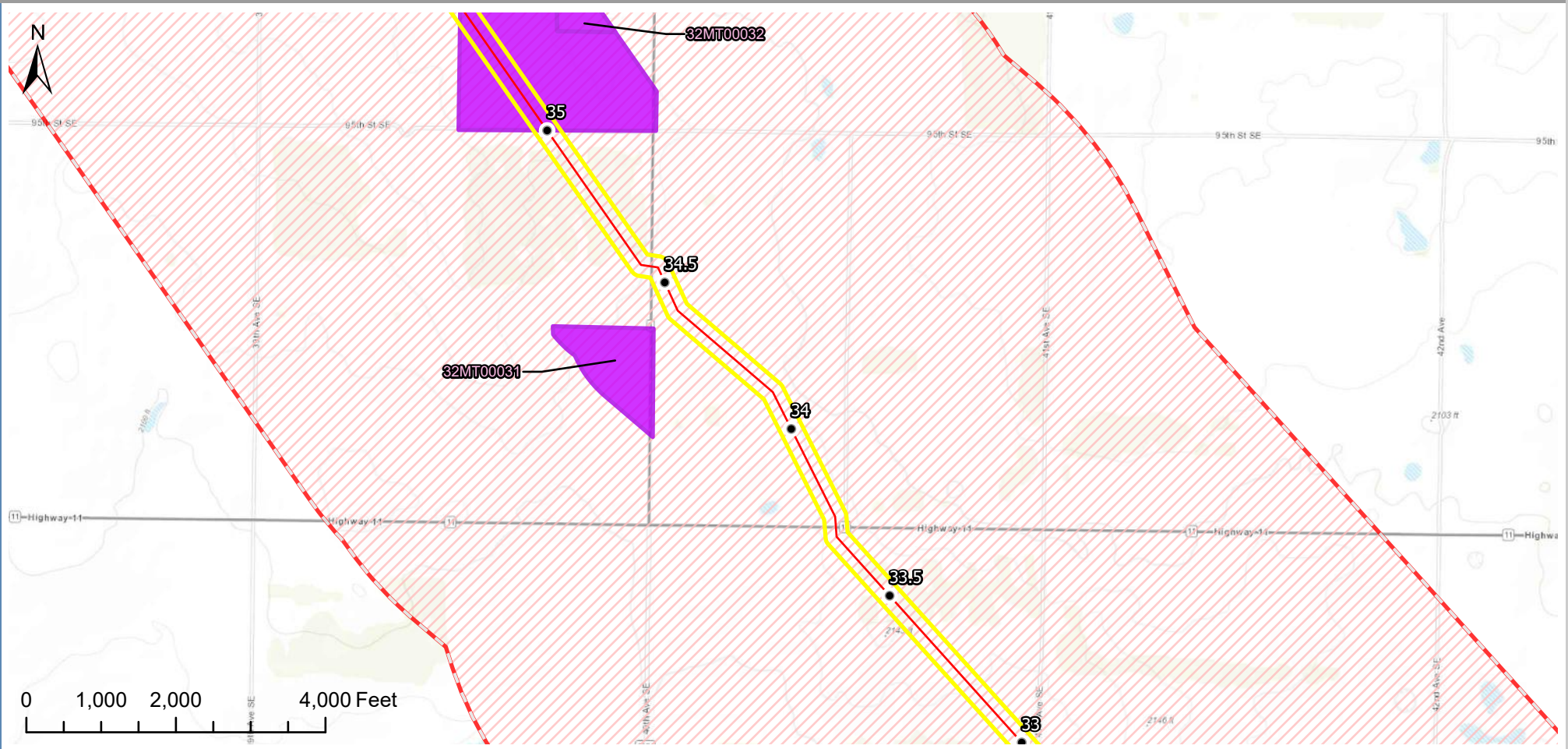
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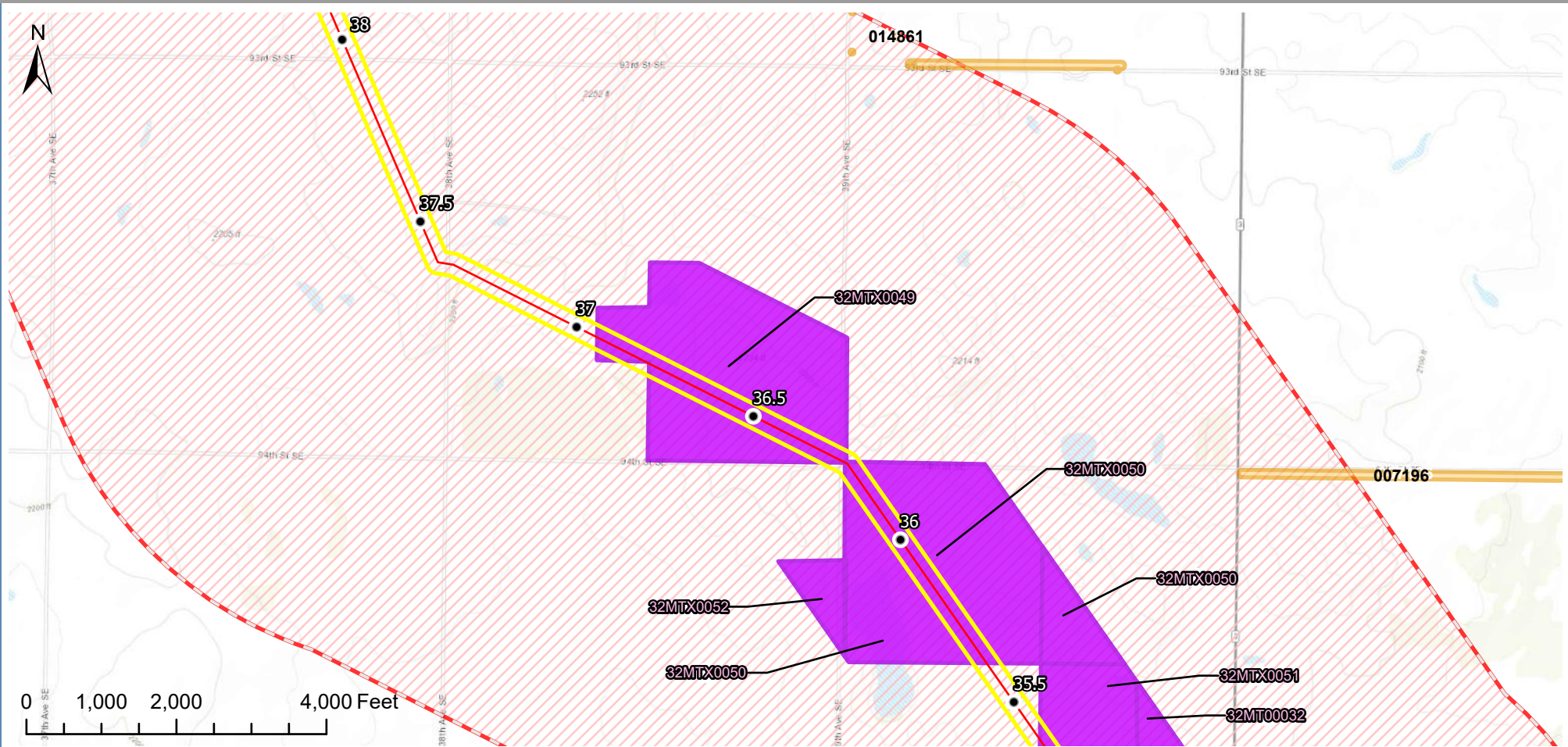
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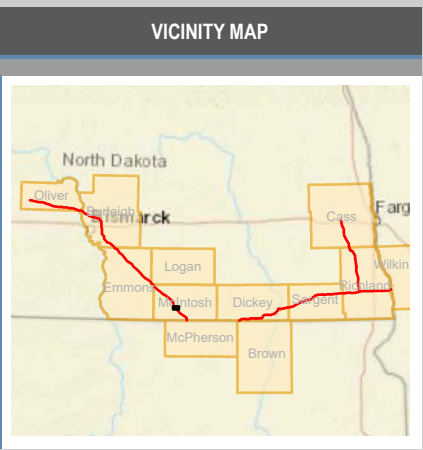
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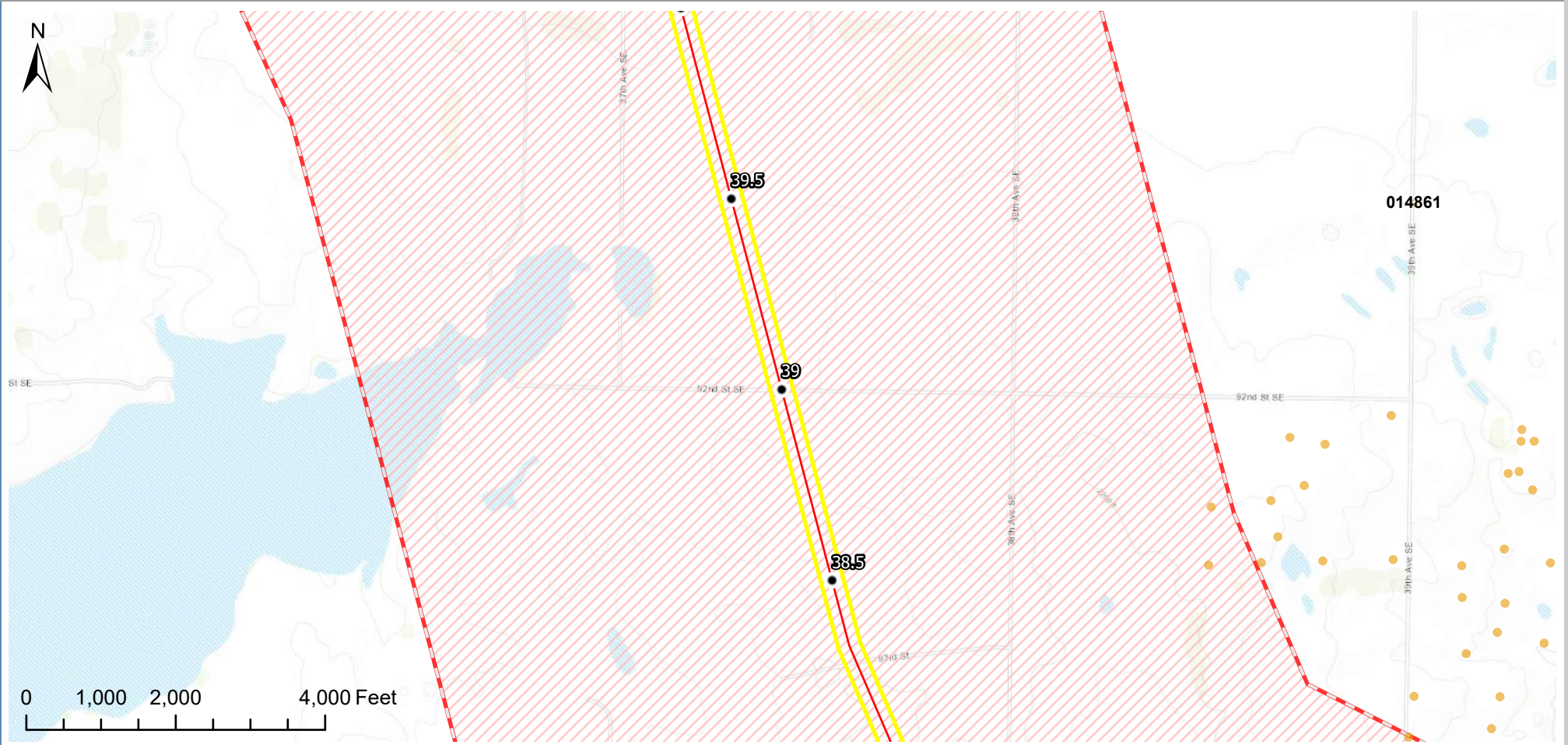
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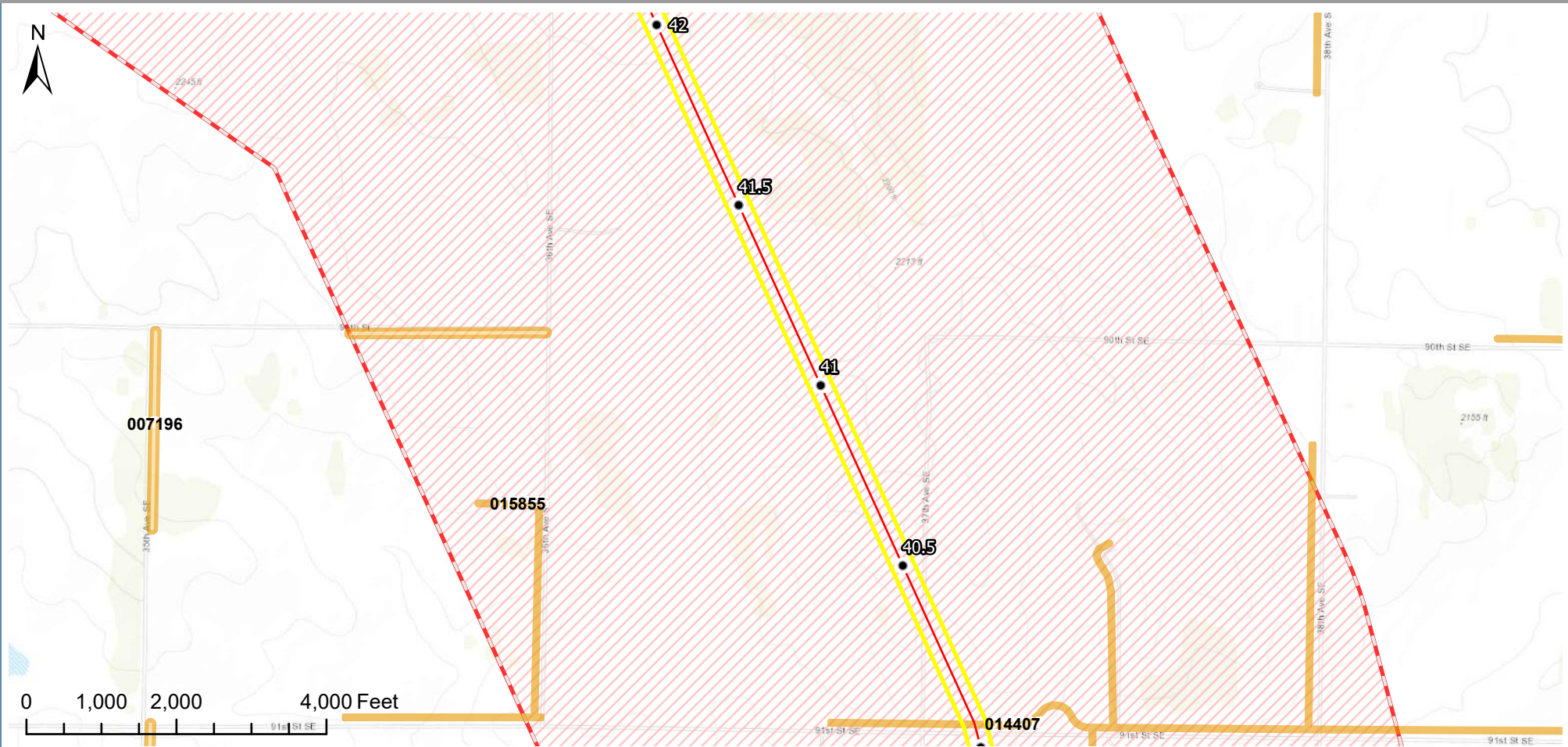
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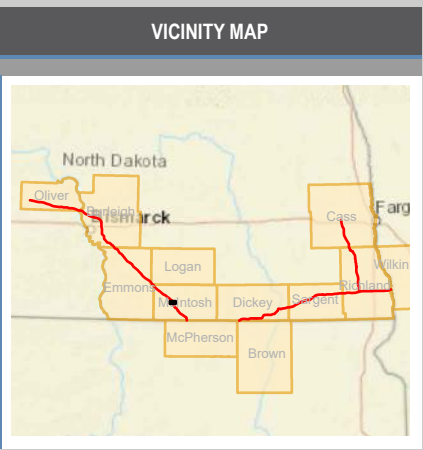
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BACKGROUND REVIEW RESULTS MAP - NORTH DAKOTA



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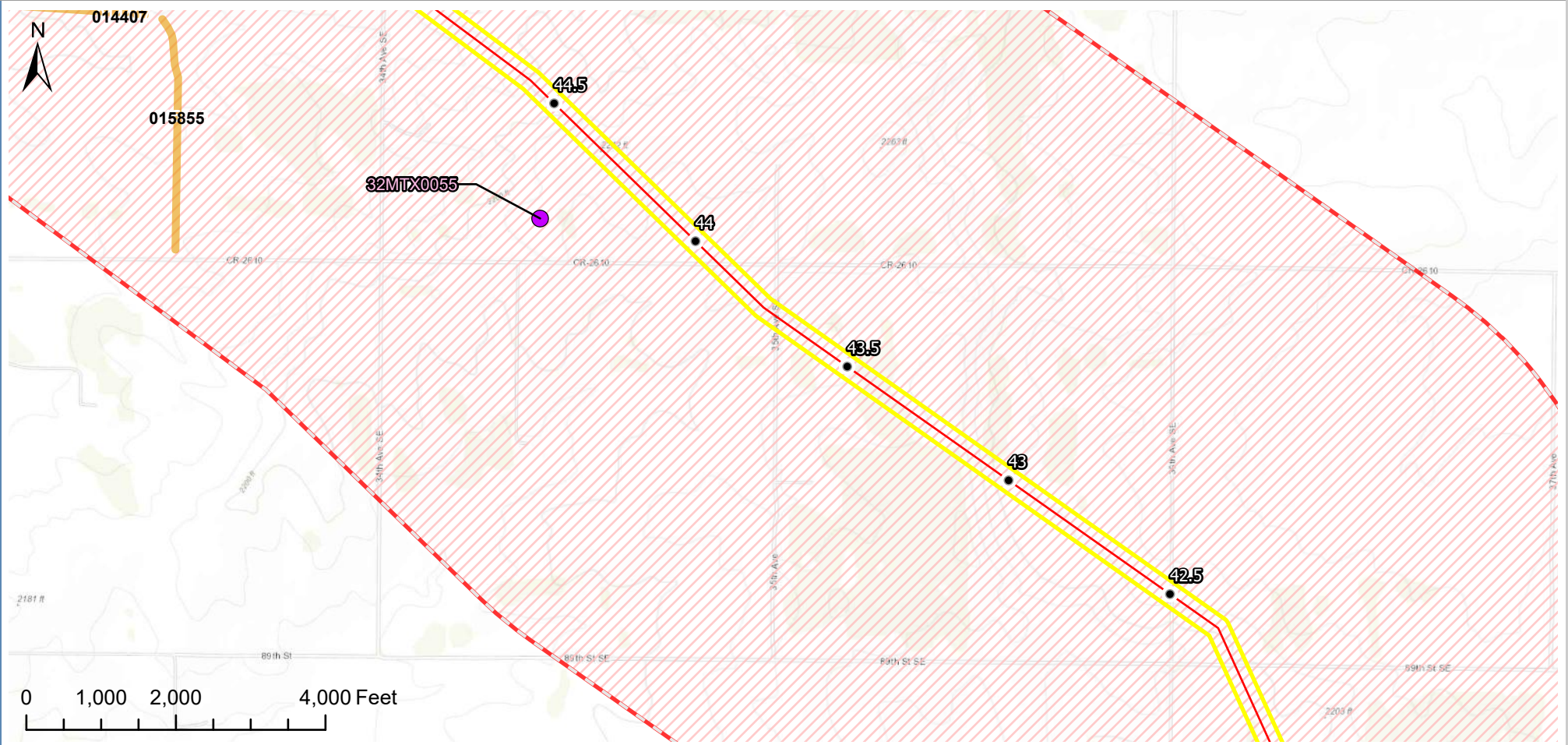
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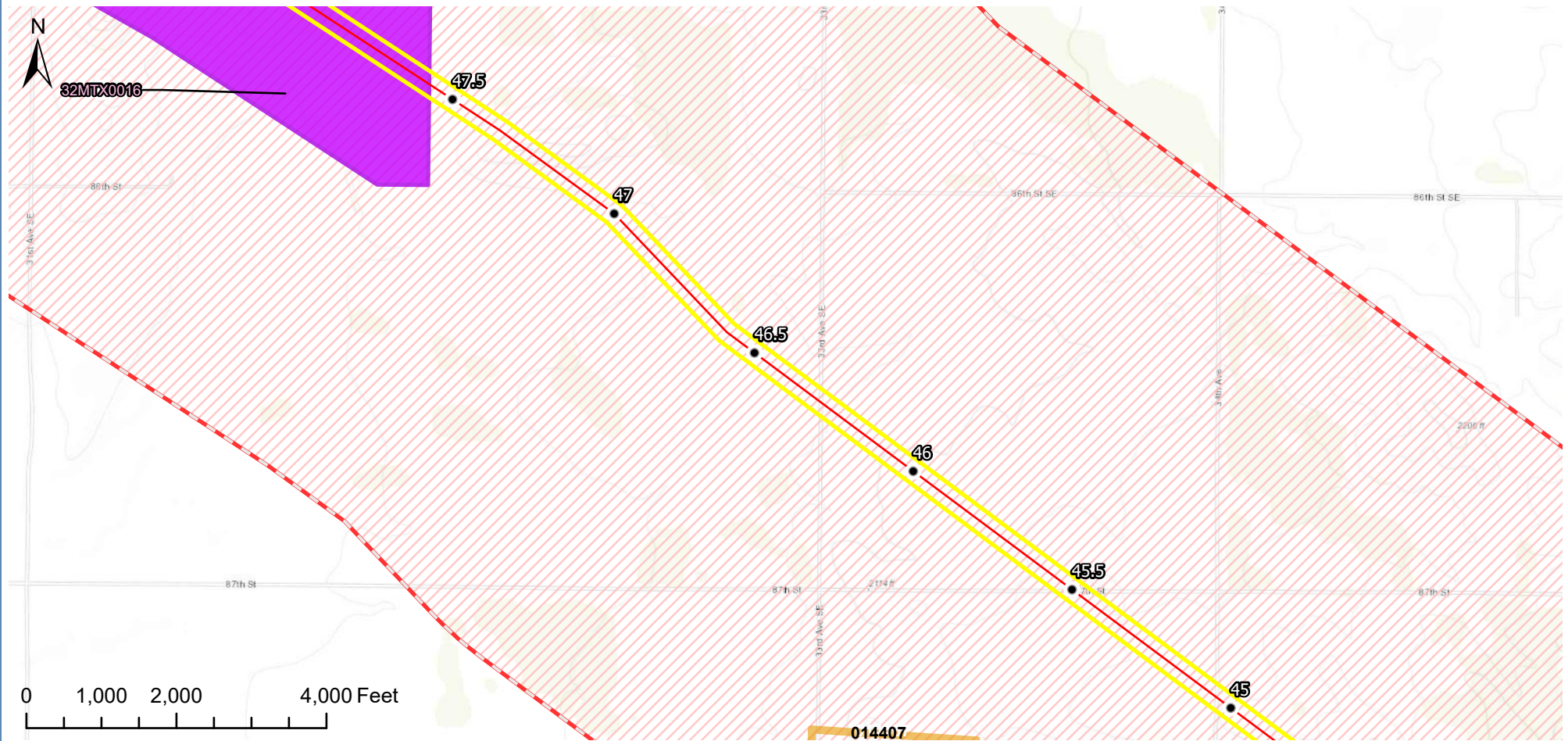
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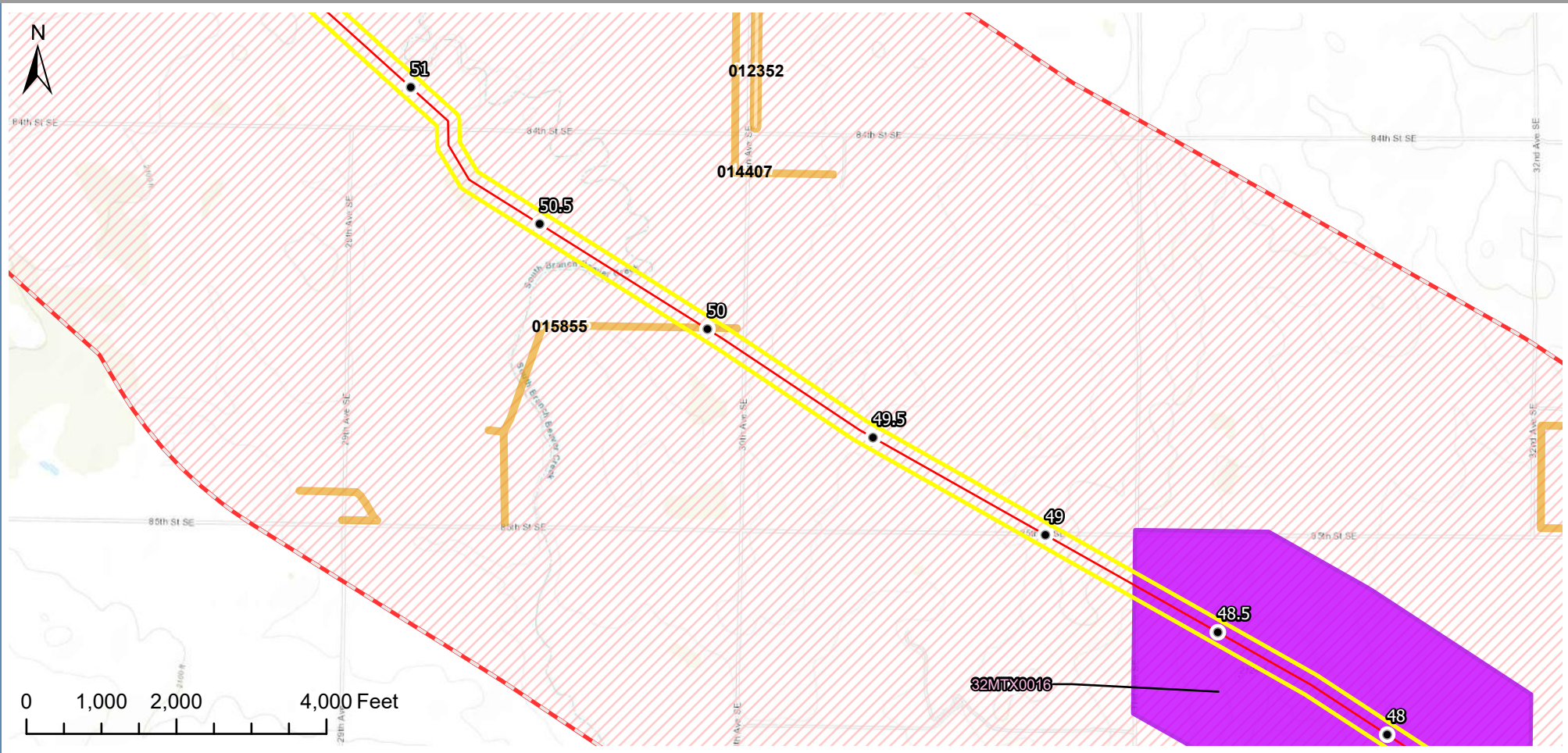
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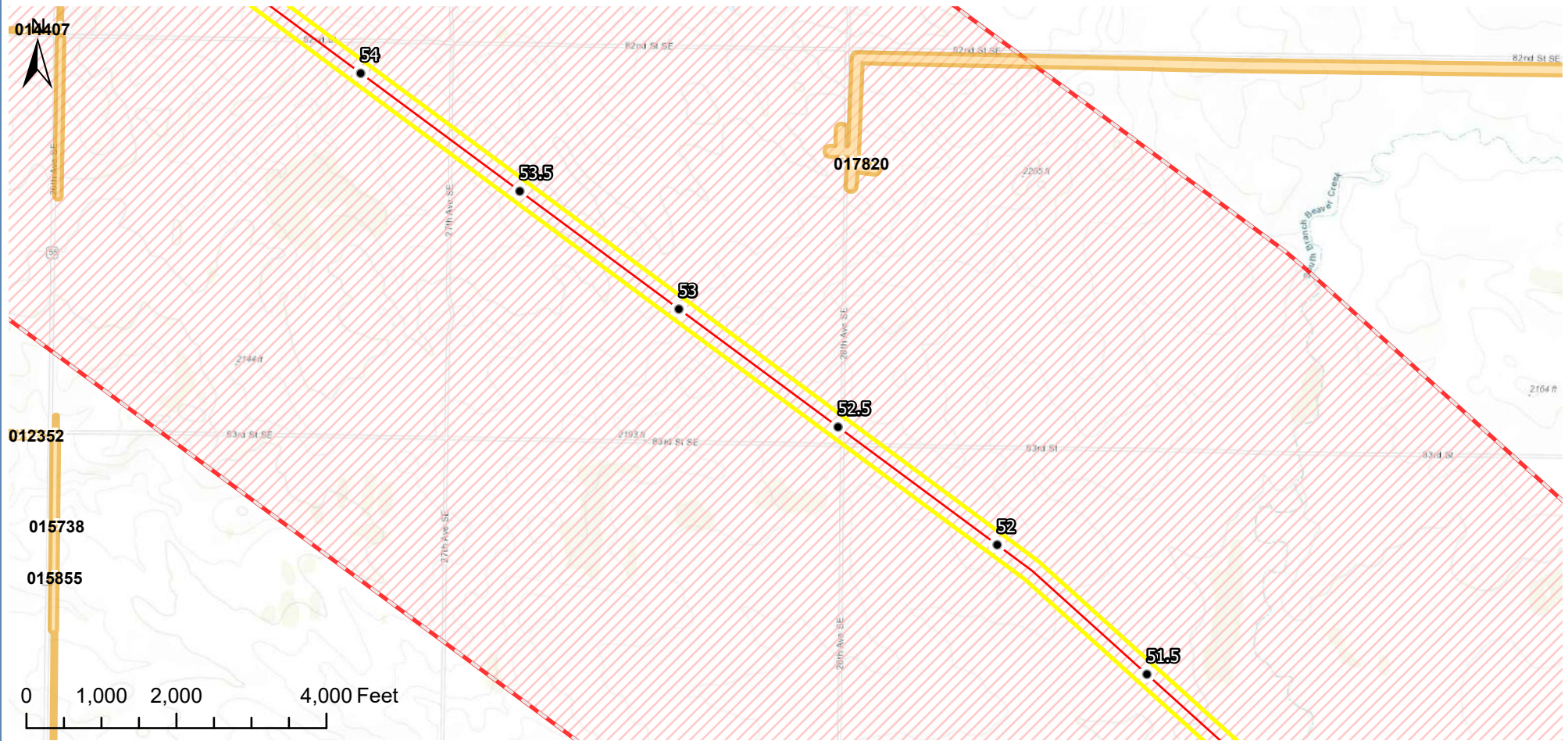
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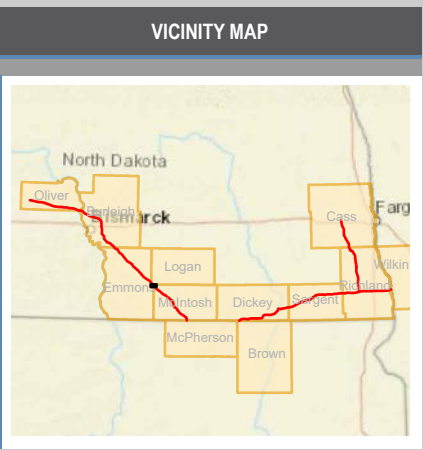
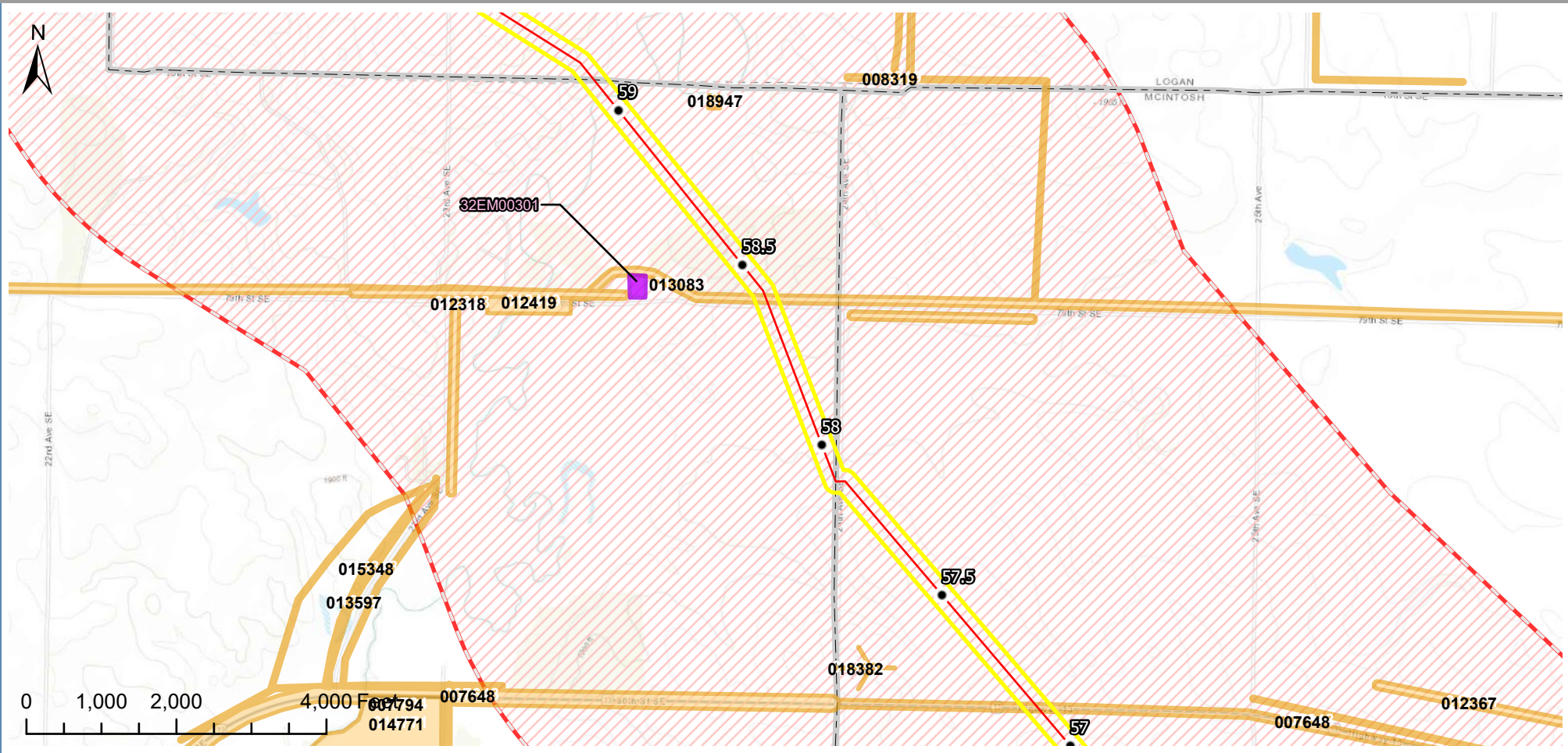
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BACKGROUND REVIEW RESULTS MAP - NORTH DAKOTA

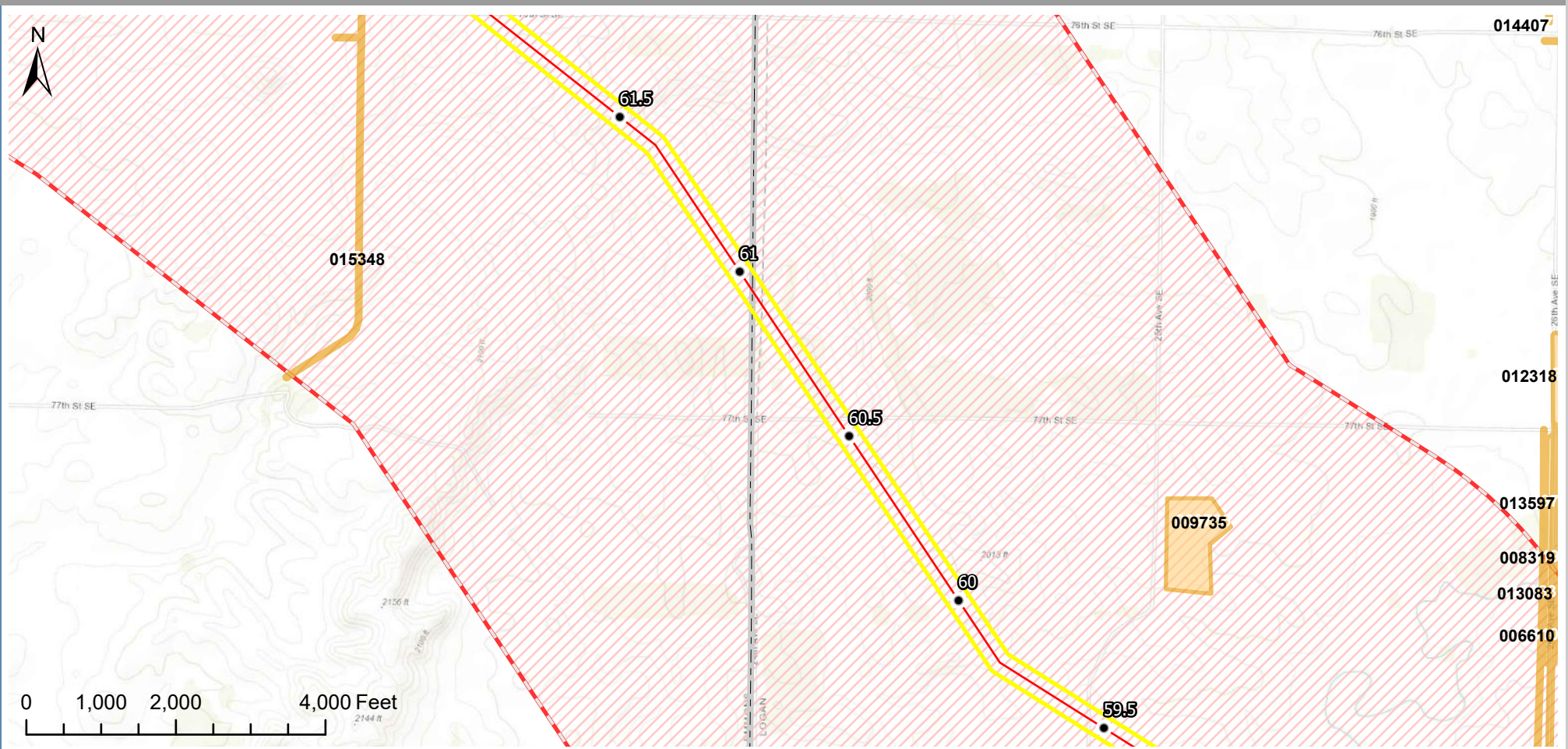


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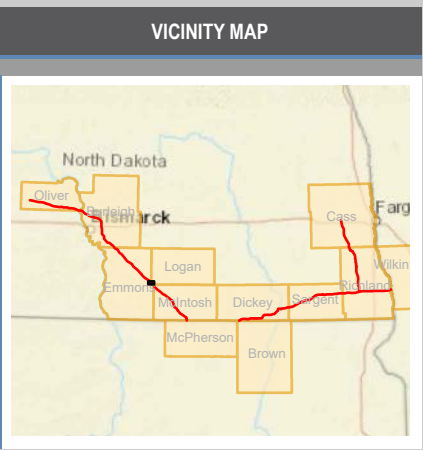
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BACKGROUND REVIEW RESULTS MAP - NORTH DAKOTA



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LEGEND

● Milepost	▨ 1-Mile Buffer
● Historical Structure	■ Cultural Heritage Resource
● Previously Recorded Site	■ Previously Recorded Site
— Main Line	▭ Previous Survey
— Lateral Line	▭ Sequestration Site Evaluation Area (Site TBD)
— Trunk Line	▭ County Boundary
▭ Project ESA	

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REVISIONS

Date: 2021-09-08	Revised by: PW	Checked by: AB
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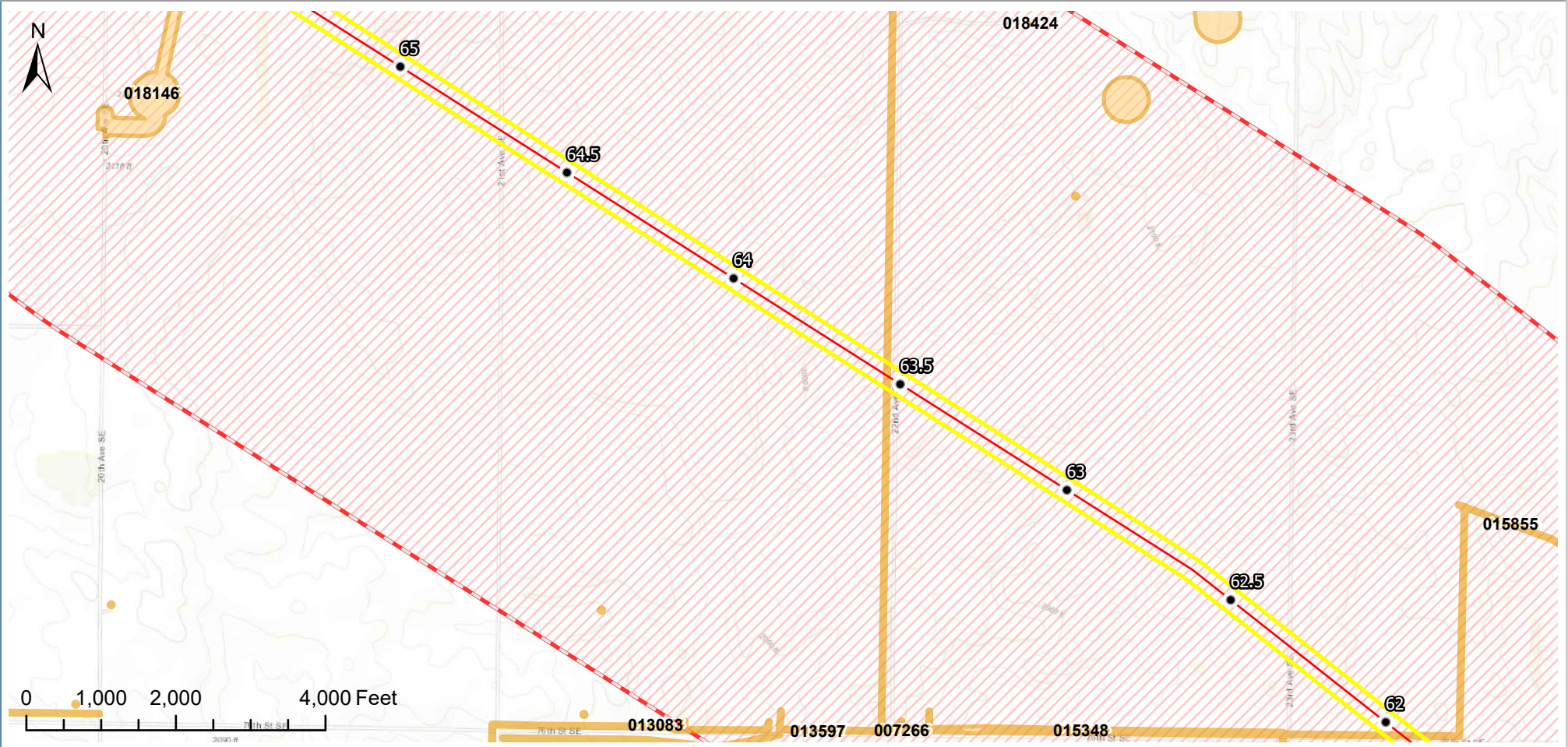
MIDWEST CARBON EXPRESS PROJECT

Figure Title:
Background Review Results Map - NORTH DAKOTA


Figure Number:
Figure 1

Scale: 1 : 24,000 1 inch equals 2,000 feet	Projection: Transverse Mercator NAD 1983 BLM Zone 14N ftUS
Sheet: 14 14 of 103	Drawing Number: 2002-01-001 Revision 0

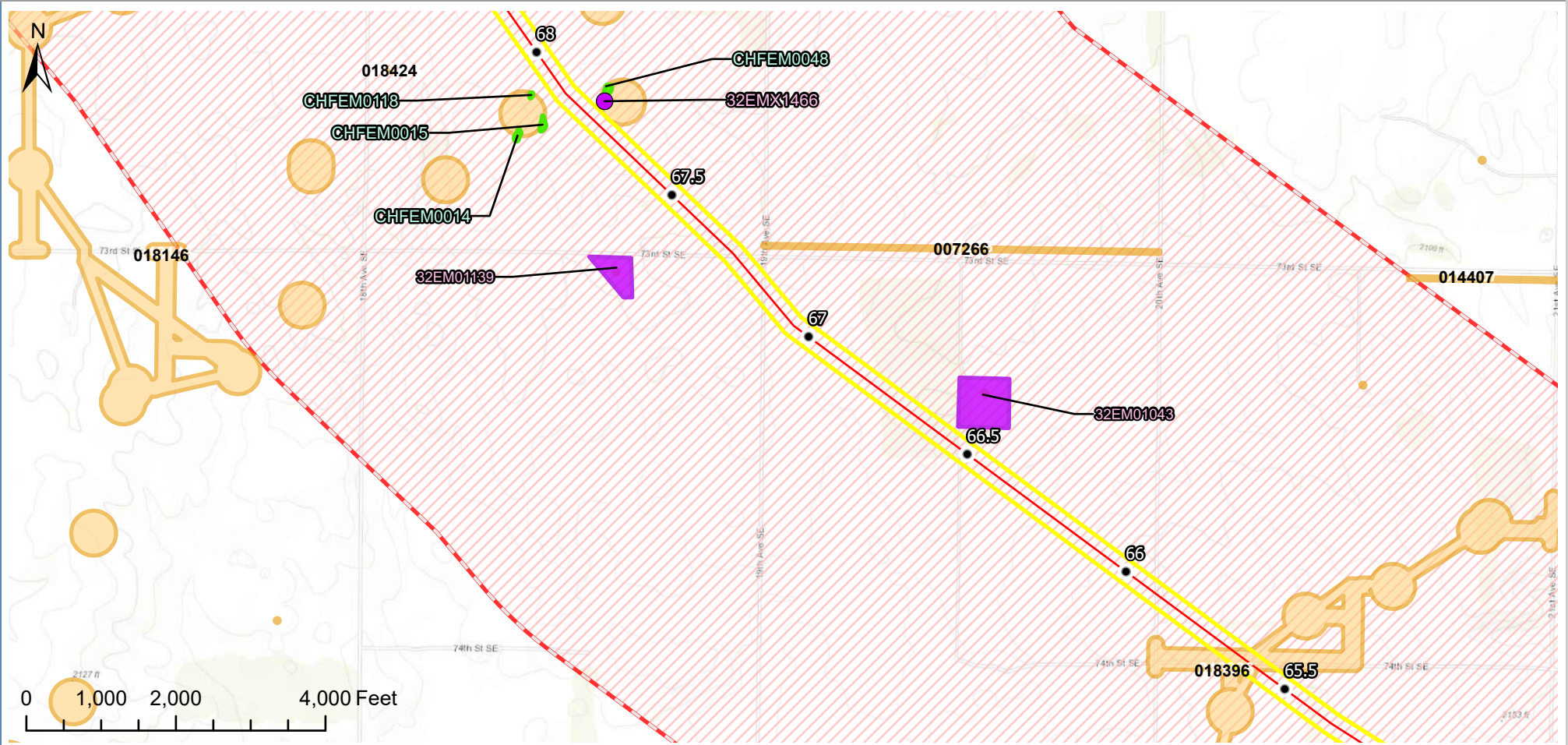
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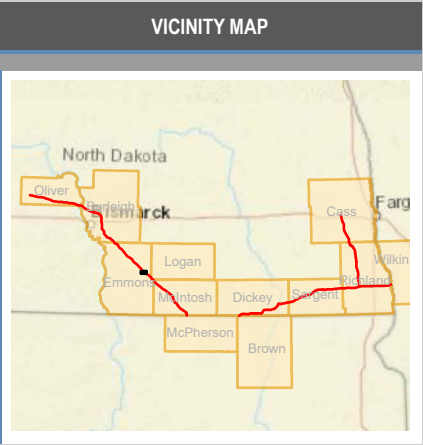
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BACKGROUND REVIEW RESULTS MAP - NORTH DAKOTA



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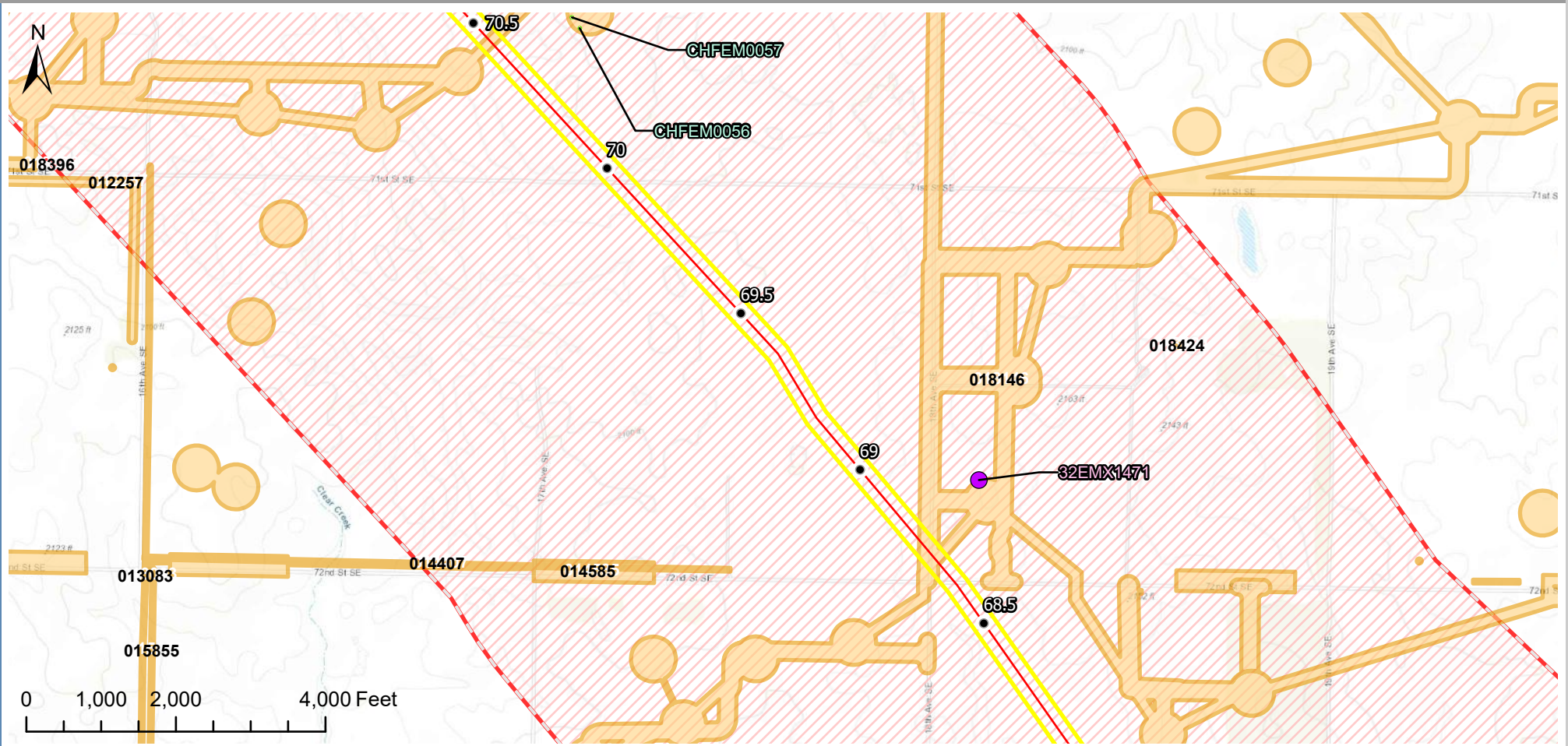
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16 16 of 103	2002-01-001 Revision 0

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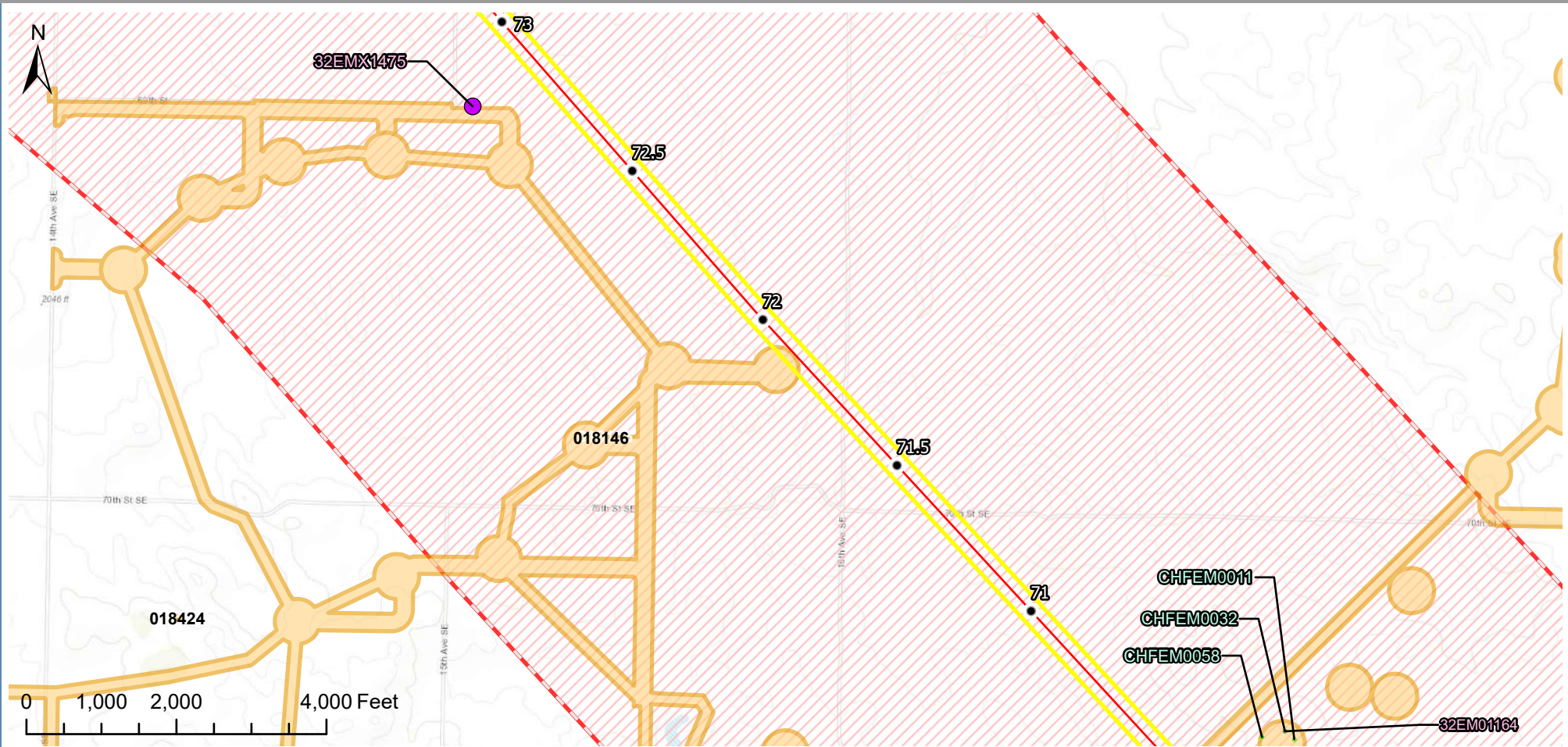
BACKGROUND REVIEW RESULTS MAP - NORTH DAKOTA




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BACKGROUND REVIEW RESULTS MAP - NORTH DAKOTA

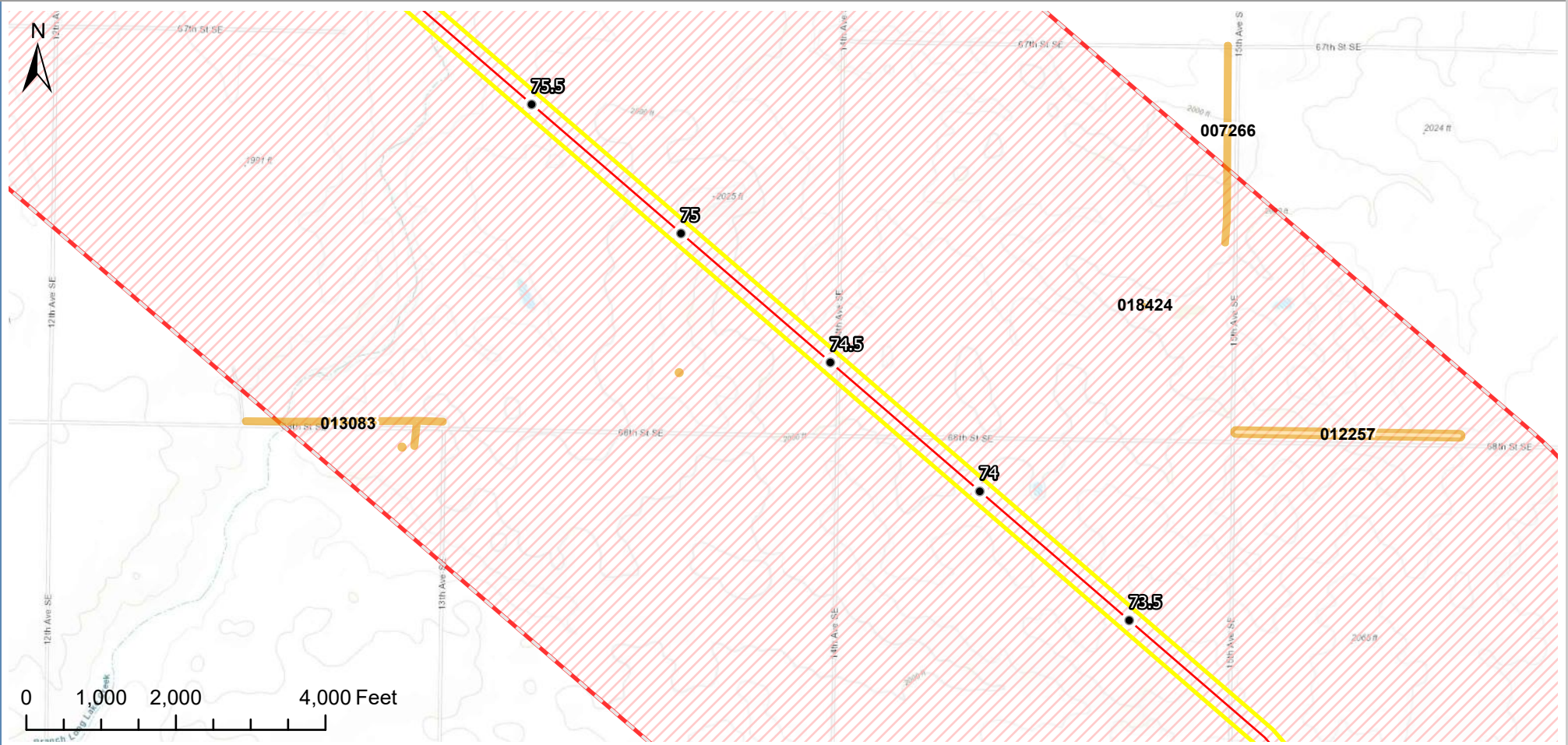


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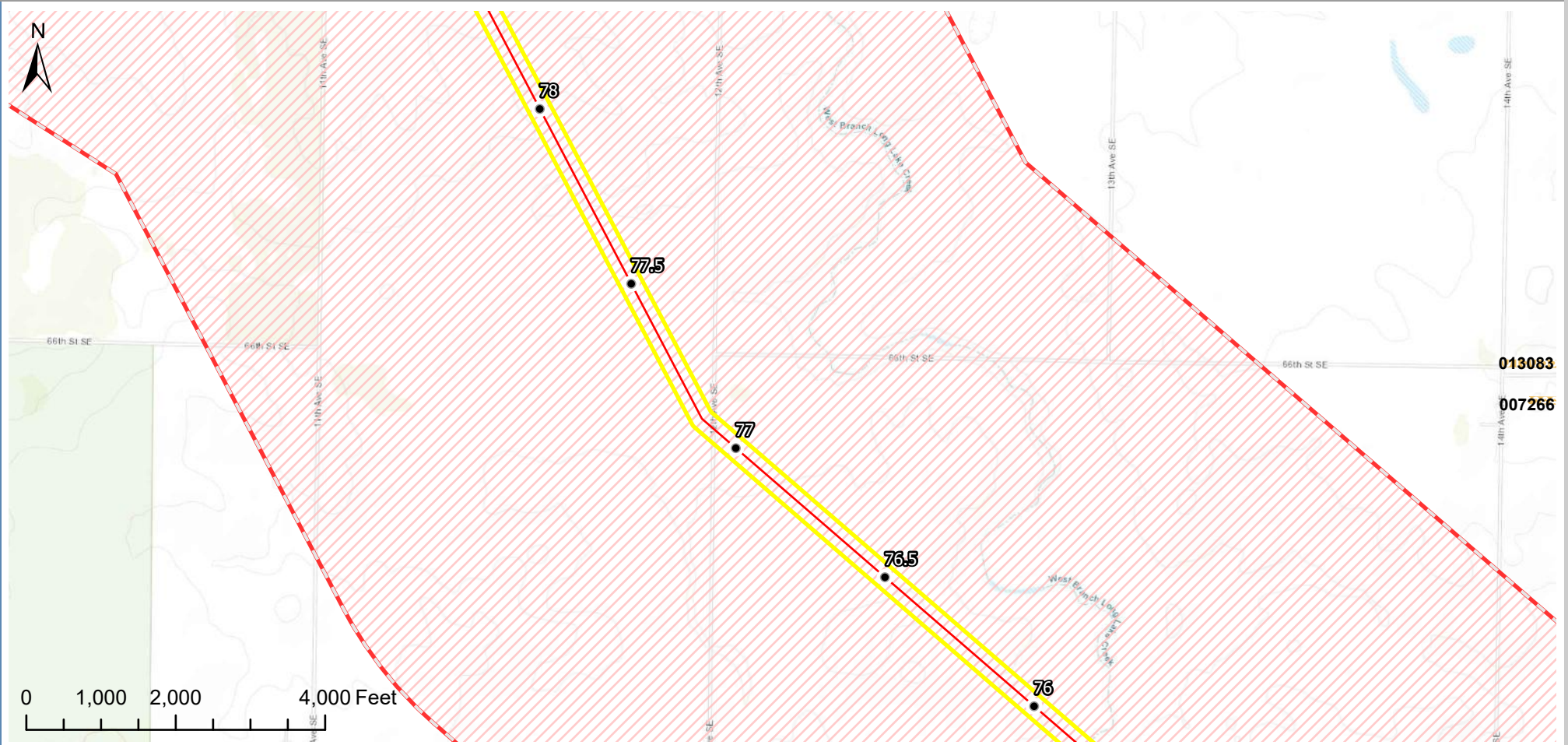
BACKGROUND REVIEW RESULTS MAP - NORTH DAKOTA



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BACKGROUND REVIEW RESULTS MAP - NORTH DAKOTA

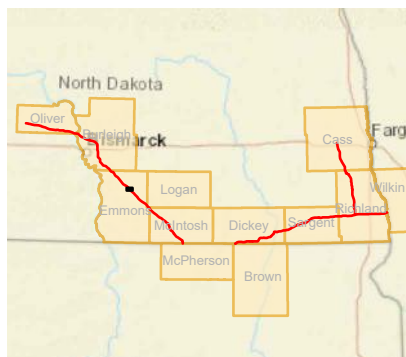


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VICINITY MAP



LEGEND

- Milepost
- Historical Structure
- Previously Recorded Site
- Main Line
- Lateral Line
- Trunk Line
- Project ESA
- 1-Mile Buffer
- Cultural Heritage Resource
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MIDWEST CARBON EXPRESS PROJECT

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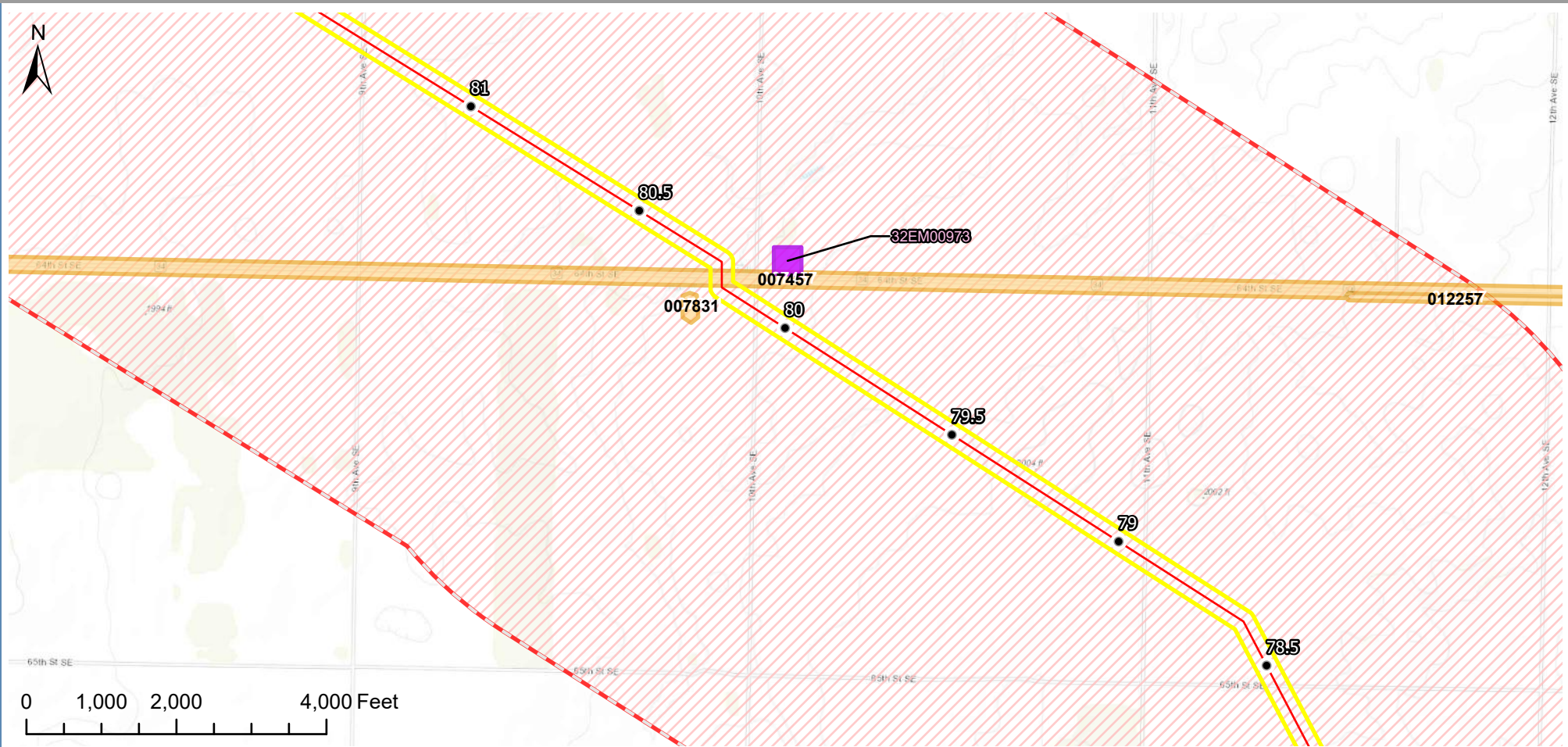
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Sheet:
20
 20 of 103

Projection:
Transverse Mercator
 NAD 1983 BLM Zone 14N ftUS

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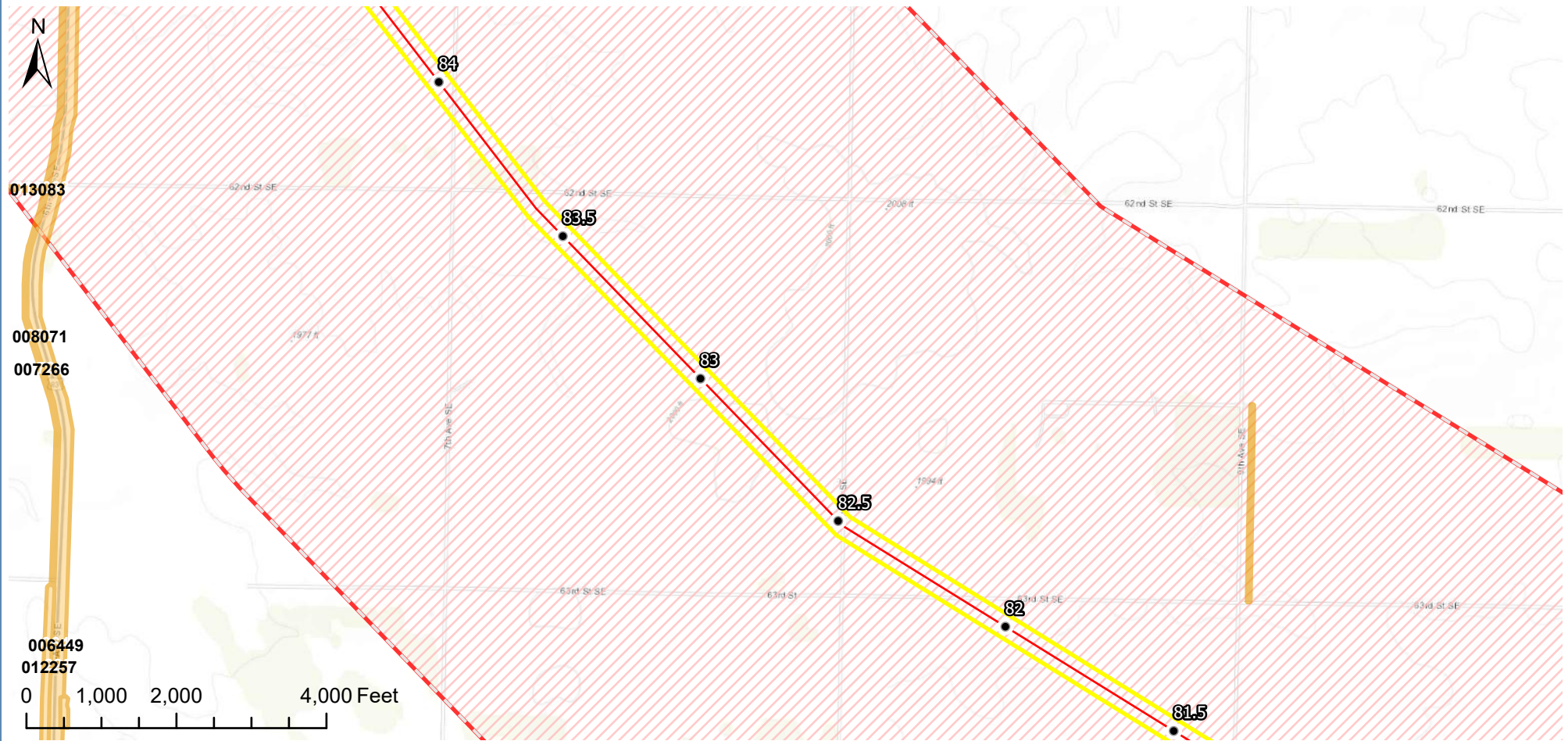
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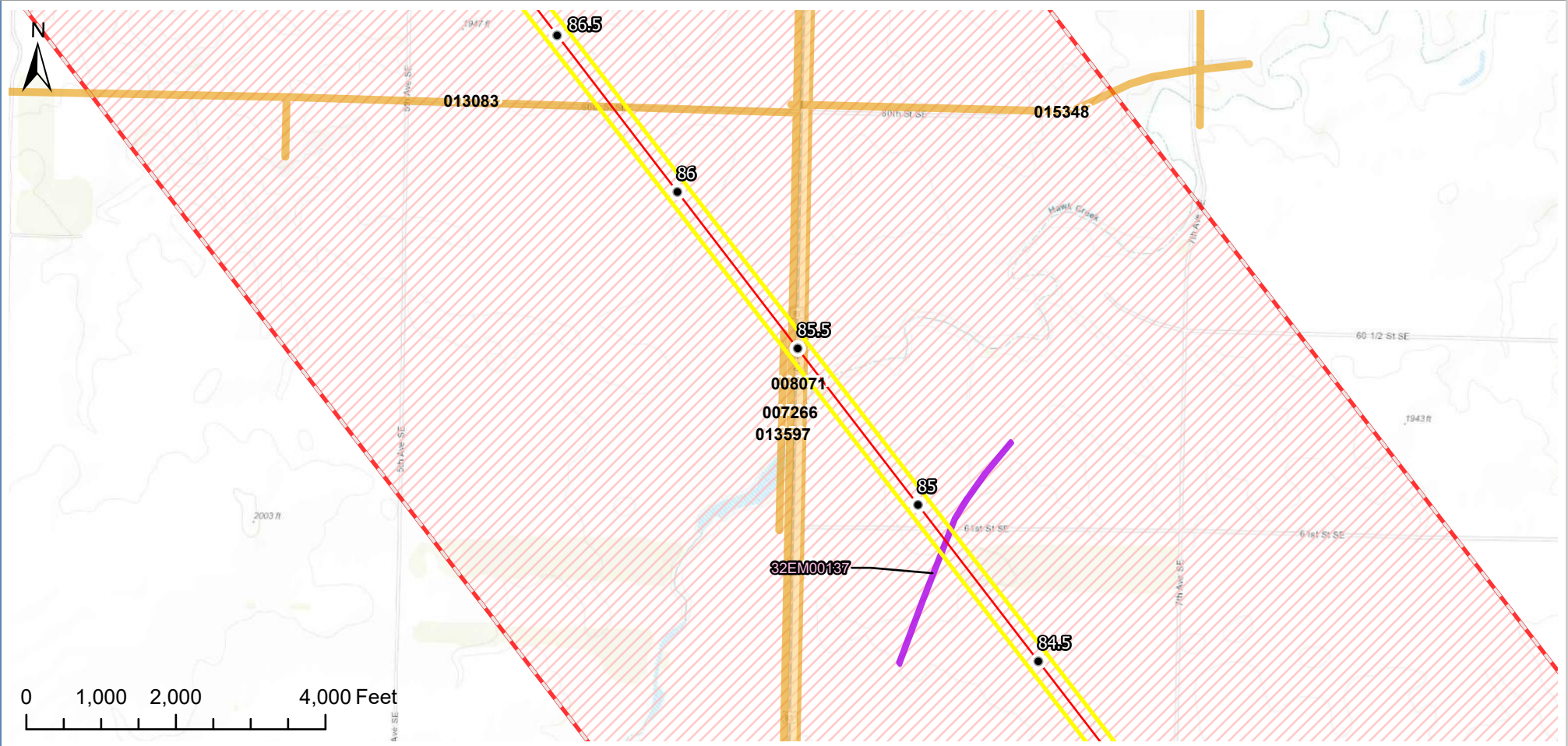
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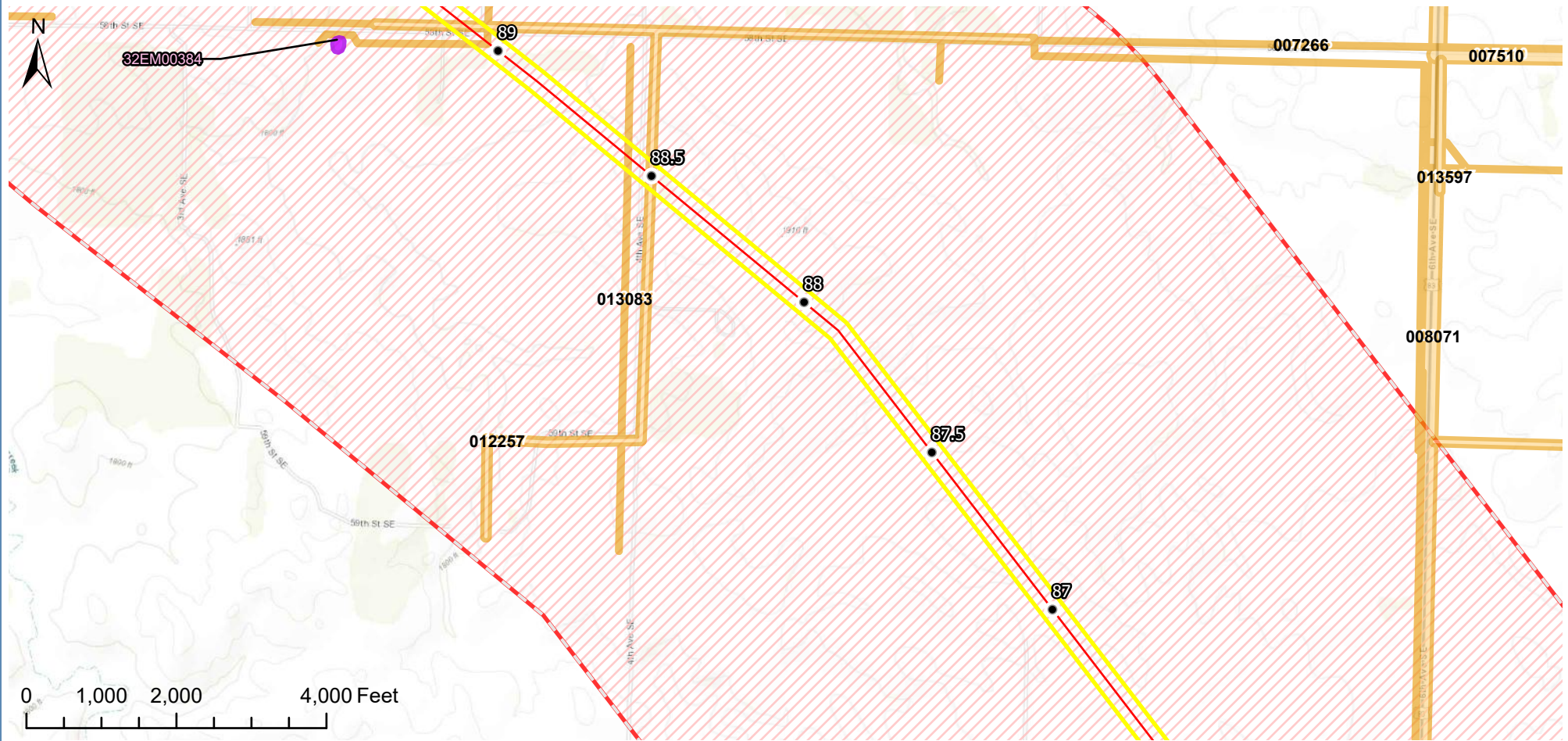
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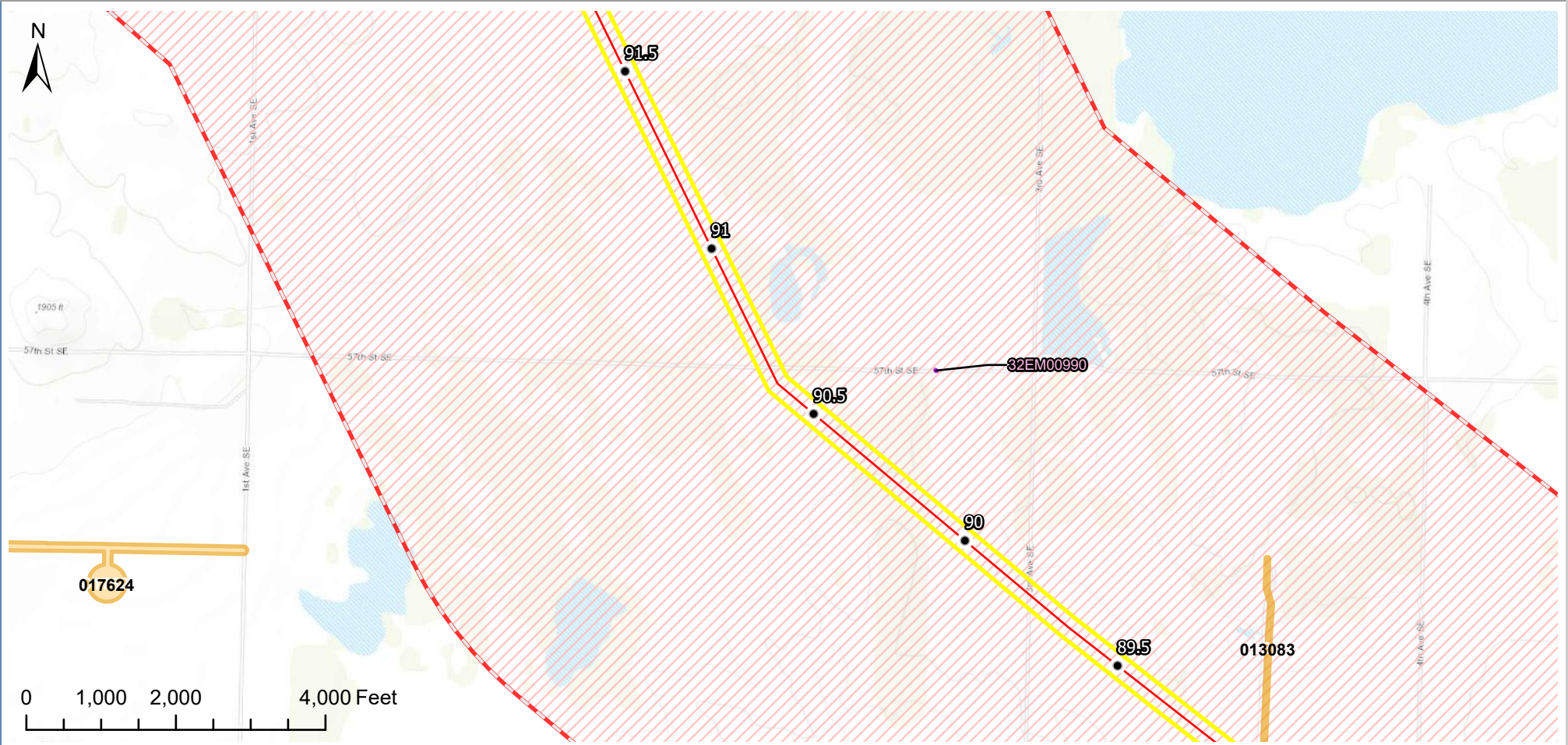
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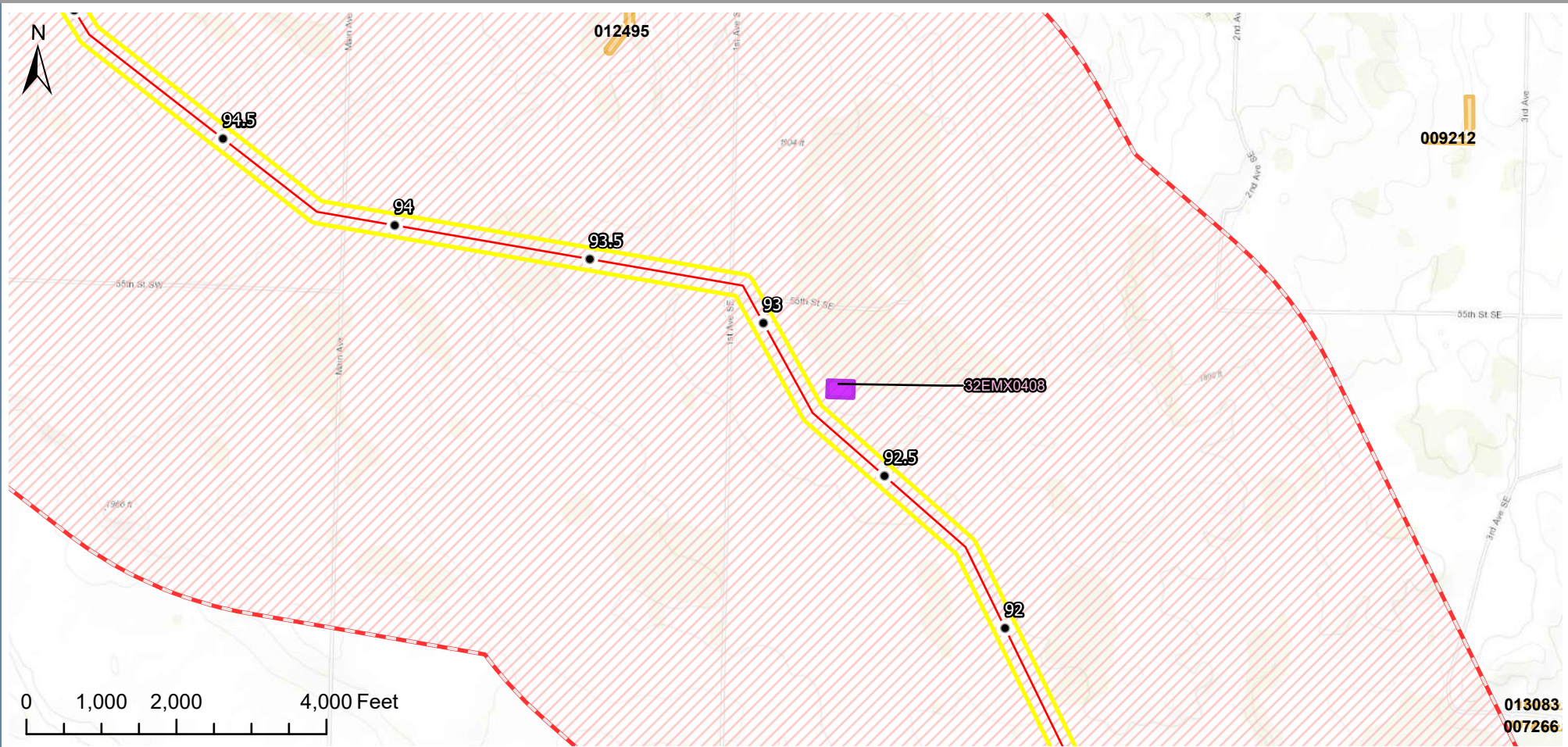
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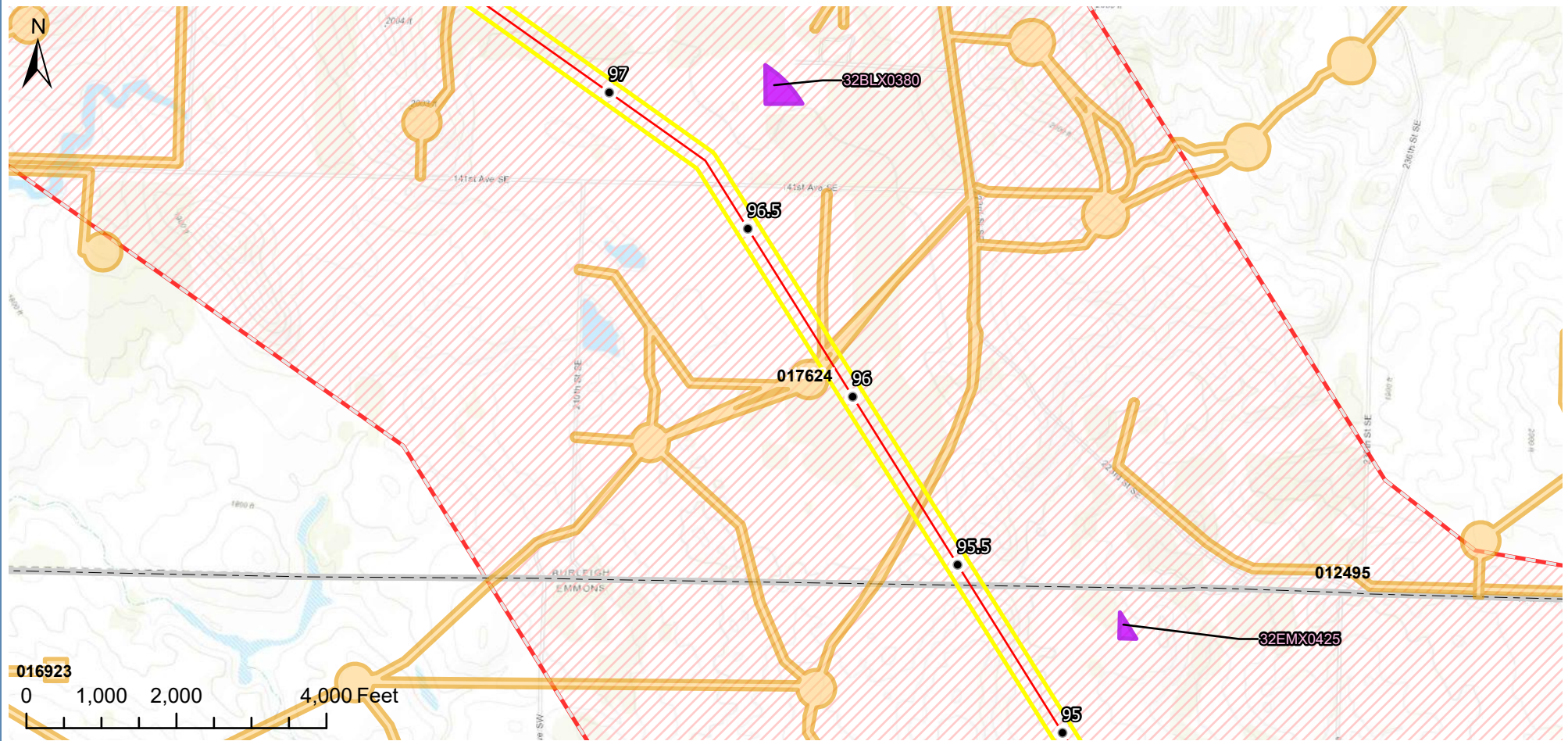
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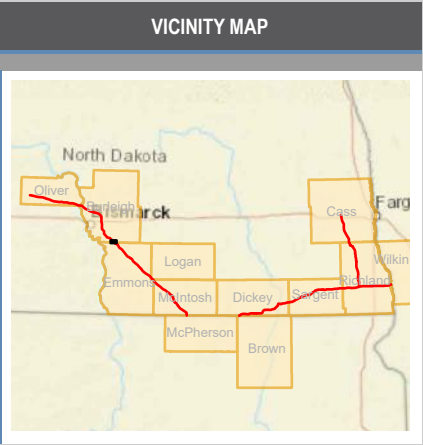
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BACKGROUND REVIEW RESULTS MAP - NORTH DAKOTA



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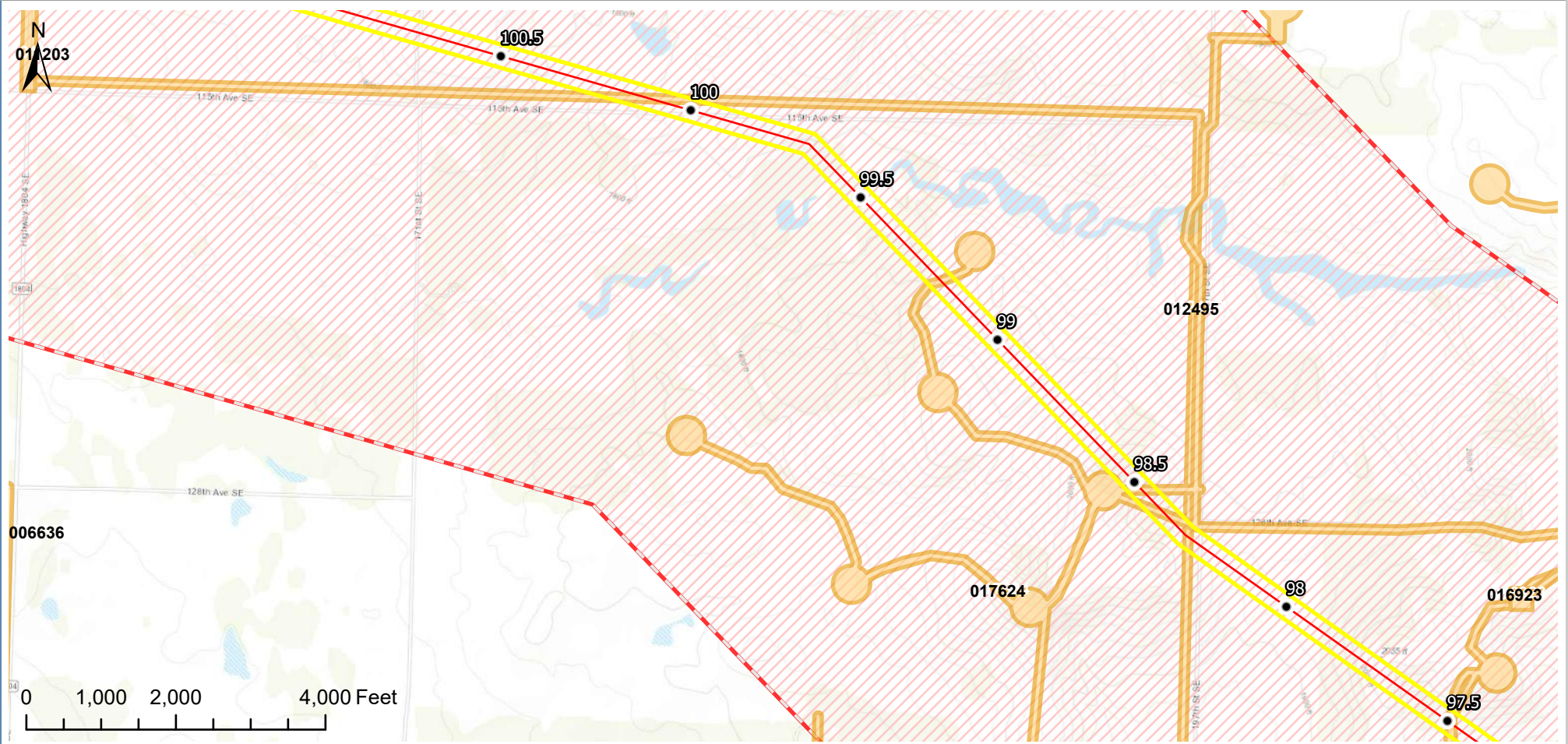
LEGEND

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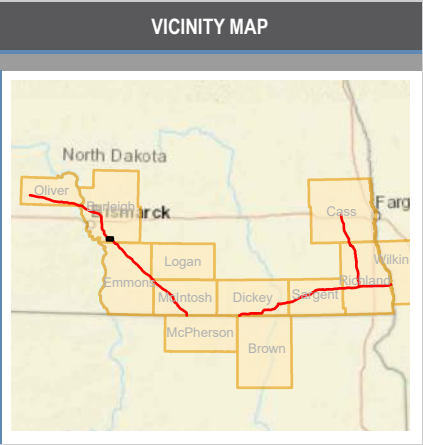
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BACKGROUND REVIEW RESULTS MAP - NORTH DAKOTA



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● Previously Recorded Site	■ Previously Recorded Site
— Main Line	▨ Previous Survey
— Lateral Line	▨ Sequestration Site Evaluation Area (Site TBD)
— Trunk Line	▨ County Boundary
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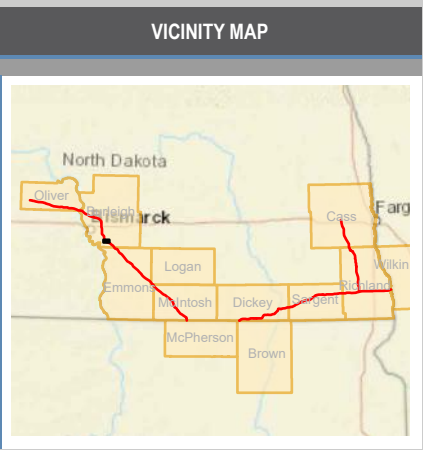
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1 : 24,000 1 inch equals 2,000 feet	Transverse Mercator NAD 1983 BLM Zone 14N ftUS
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BACKGROUND REVIEW RESULTS MAP - NORTH DAKOTA



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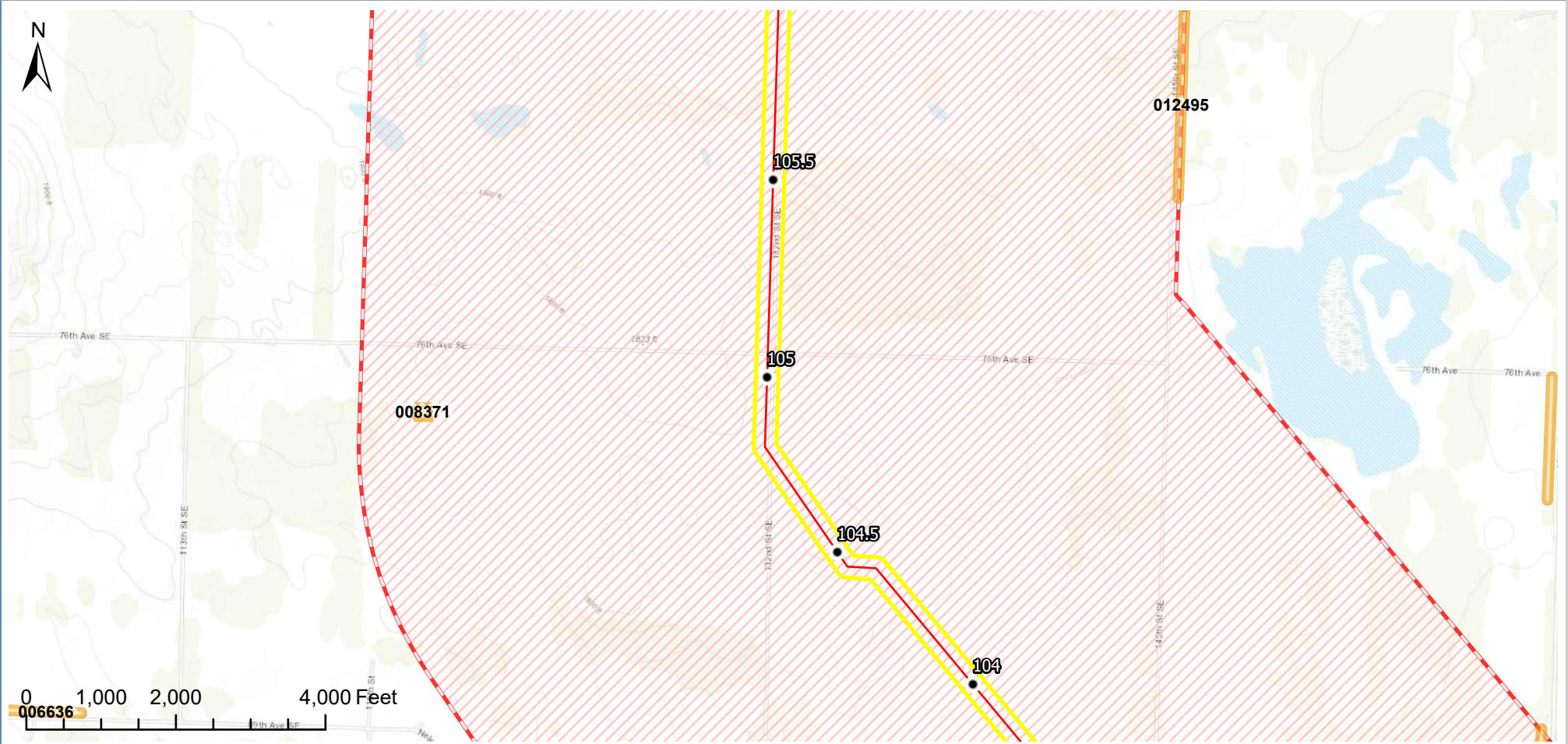


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● Historical Structure	■ Cultural Heritage Resource
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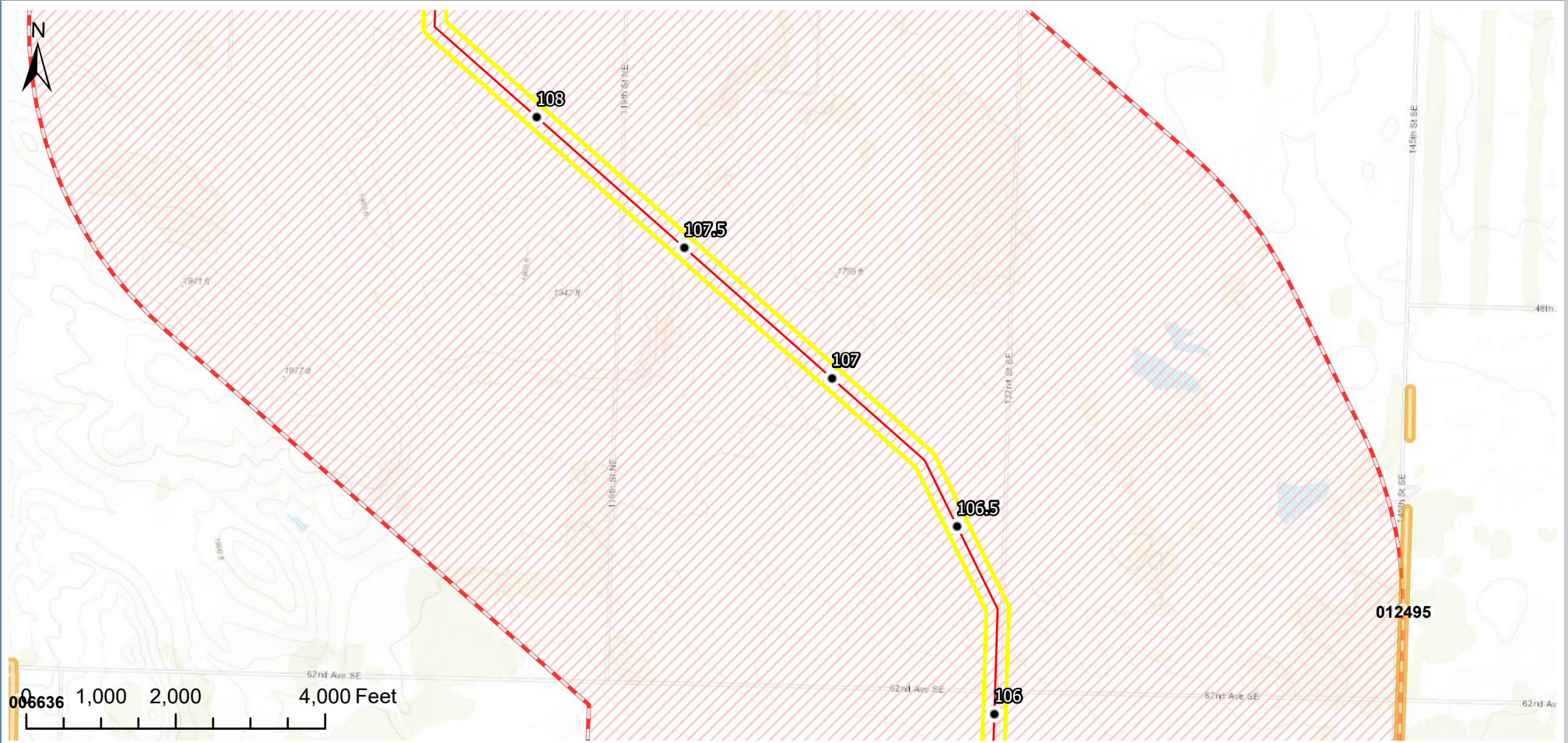
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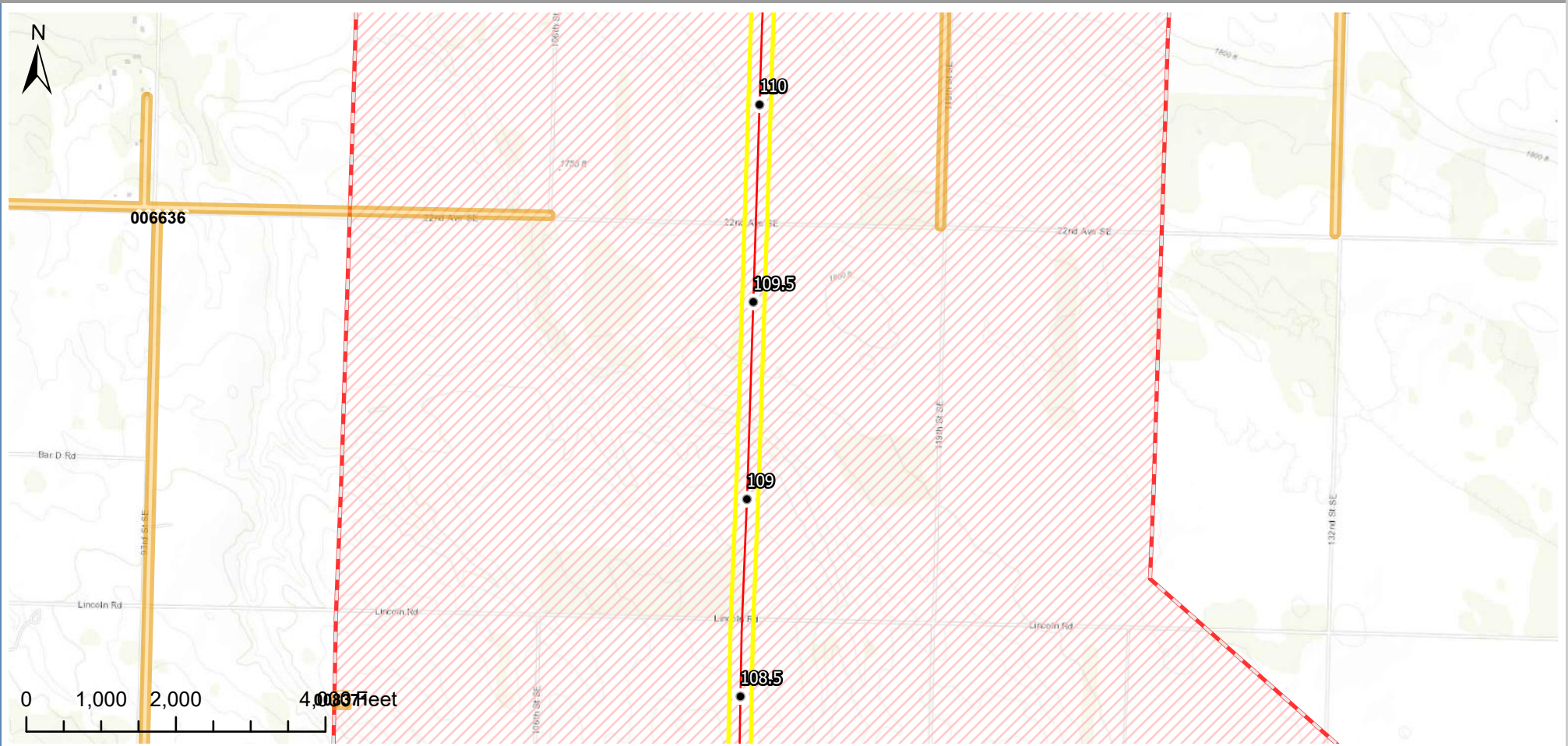
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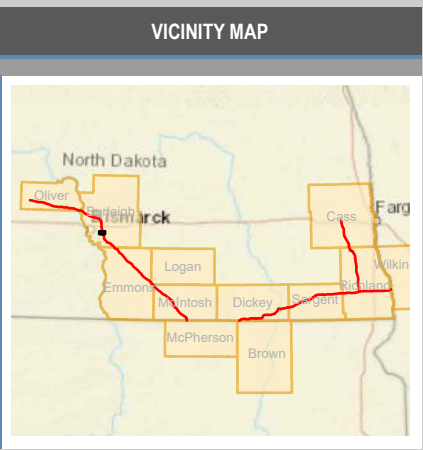
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BACKGROUND REVIEW RESULTS MAP - NORTH DAKOTA




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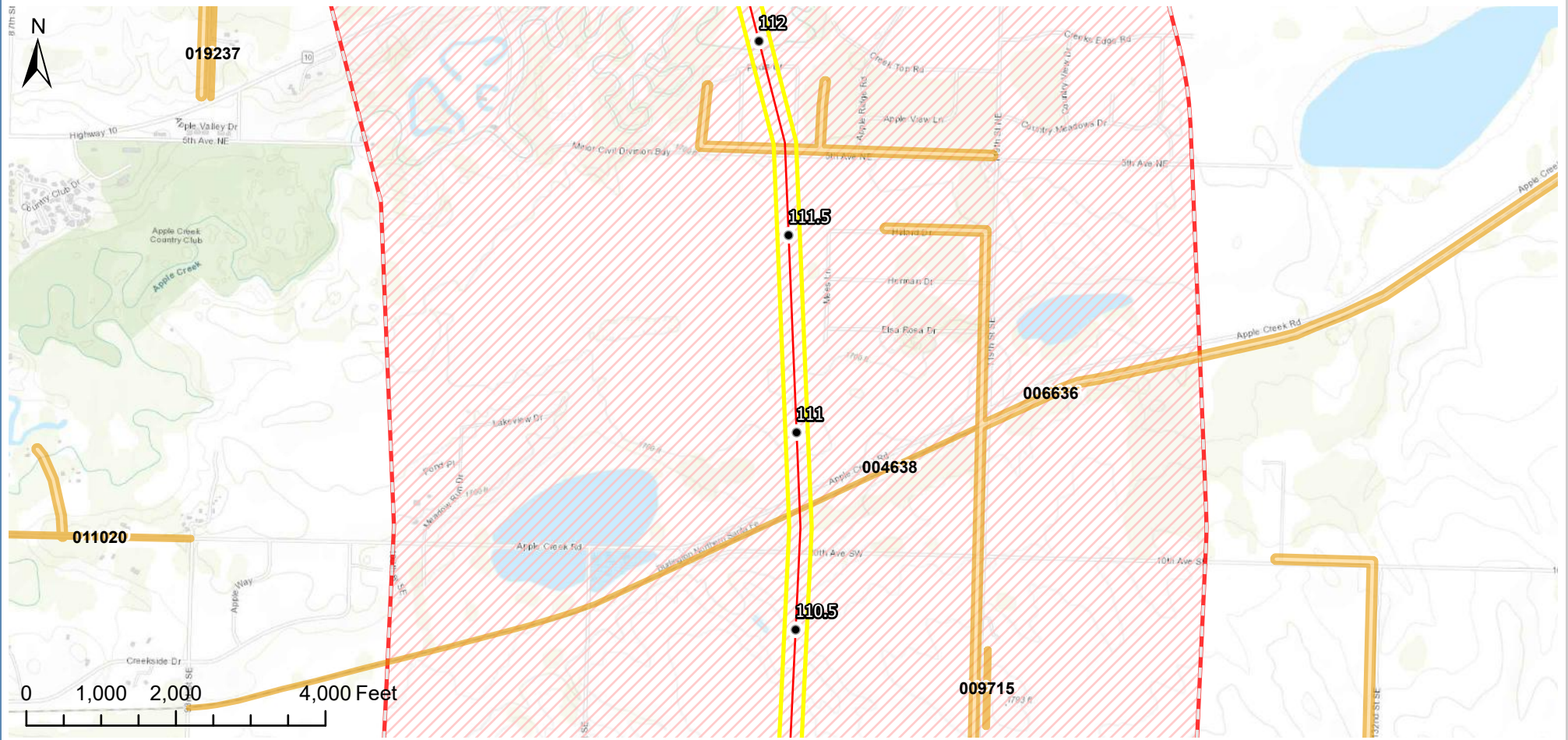
LEGEND

● Milepost	▨ 1-Mile Buffer
● Historical Structure	■ Cultural Heritage Resource
● Previously Recorded Site	■ Previously Recorded Site
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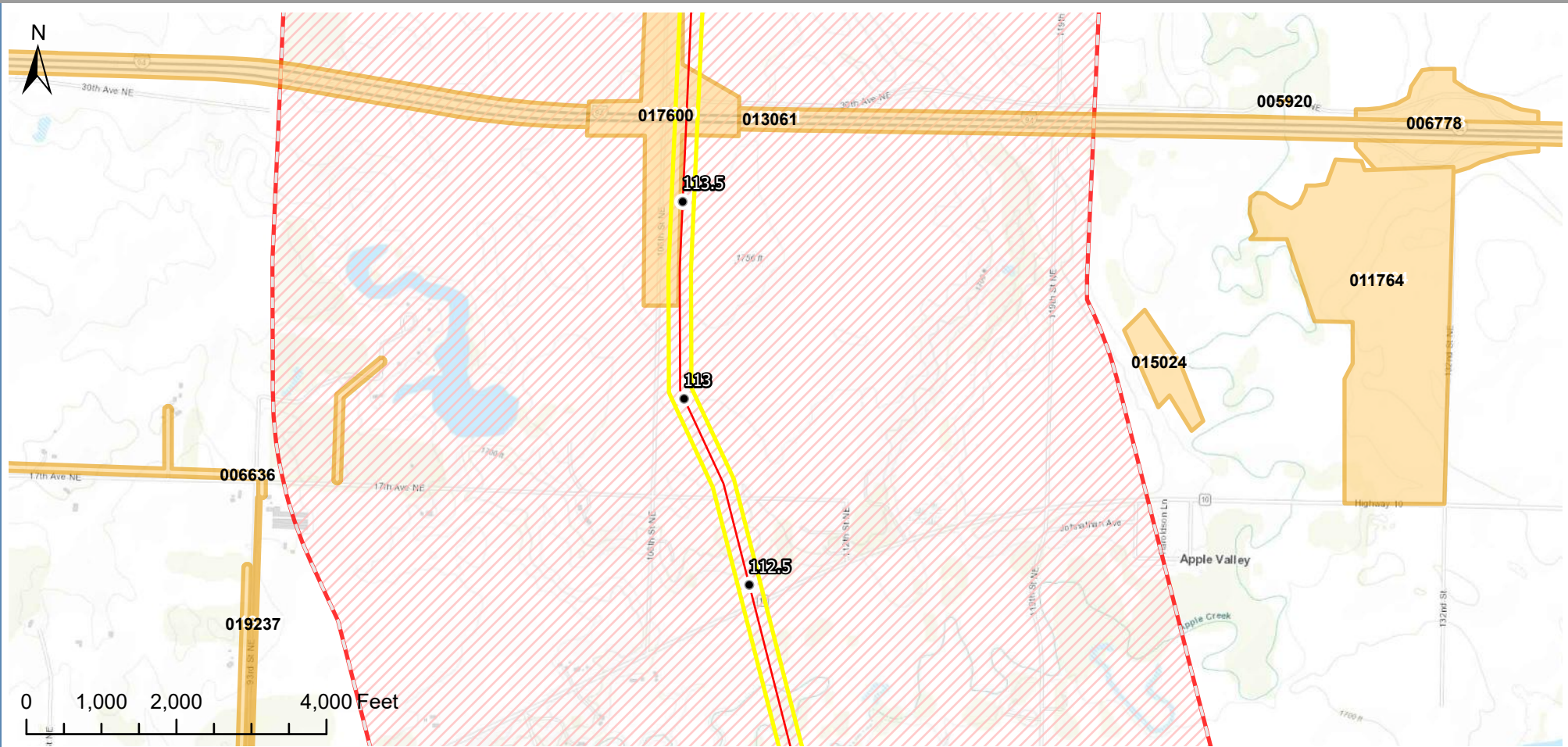
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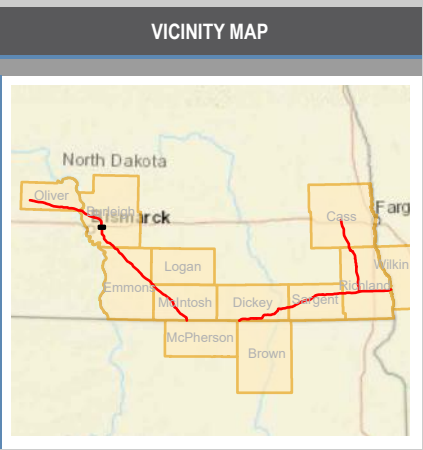
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BACKGROUND REVIEW RESULTS MAP - NORTH DAKOTA



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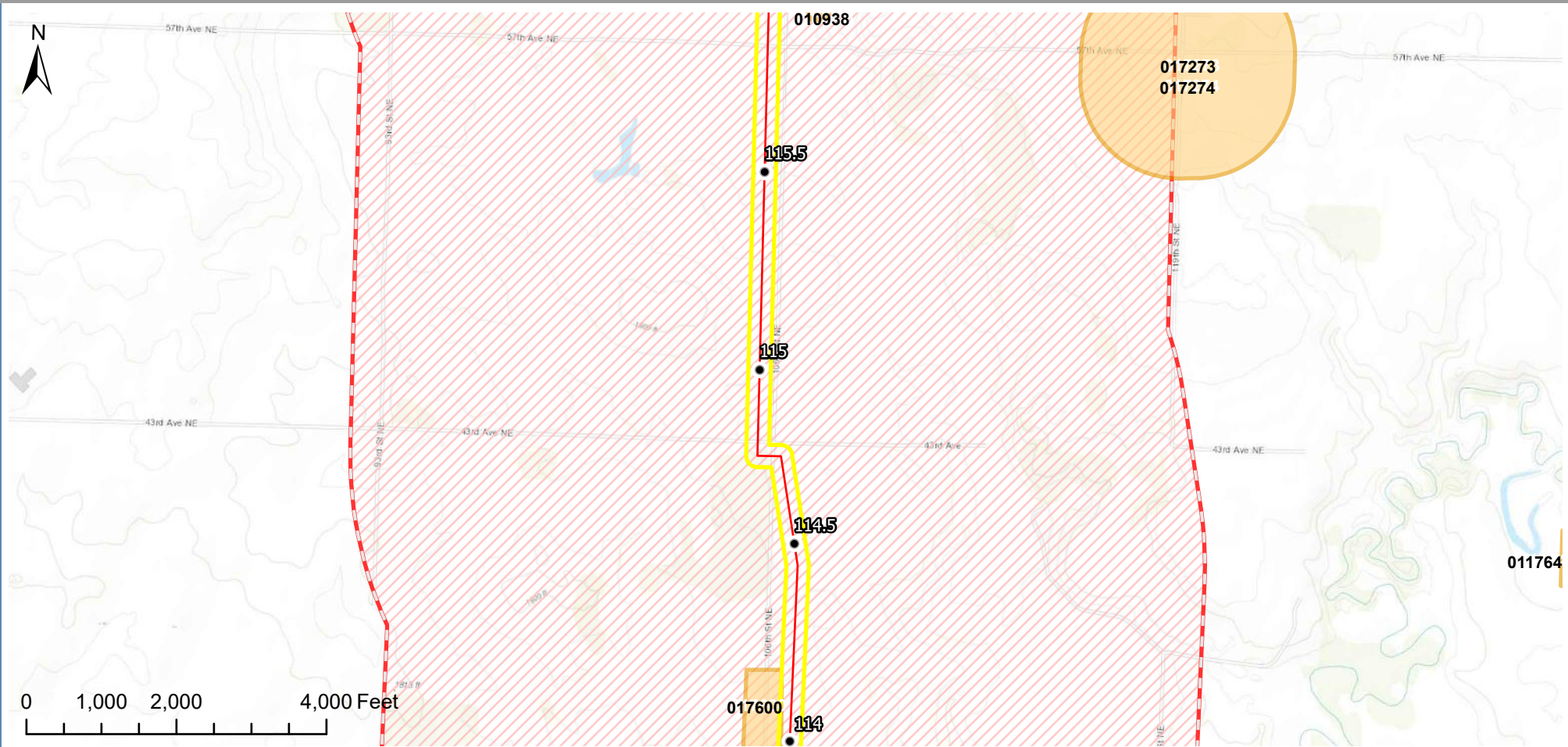


LEGEND	
● Milepost	▨ 1-Mile Buffer
● Historical Structure	■ Cultural Heritage Resource
● Previously Recorded Site	■ Previously Recorded Site
— Main Line	■ Previous Survey
— Lateral Line	■ Sequestration Site Evaluation Area (Site TBD)
— Trunk Line	▭ County Boundary
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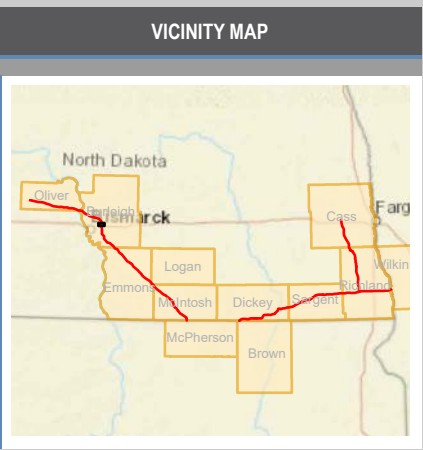
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BACKGROUND REVIEW RESULTS MAP - NORTH DAKOTA



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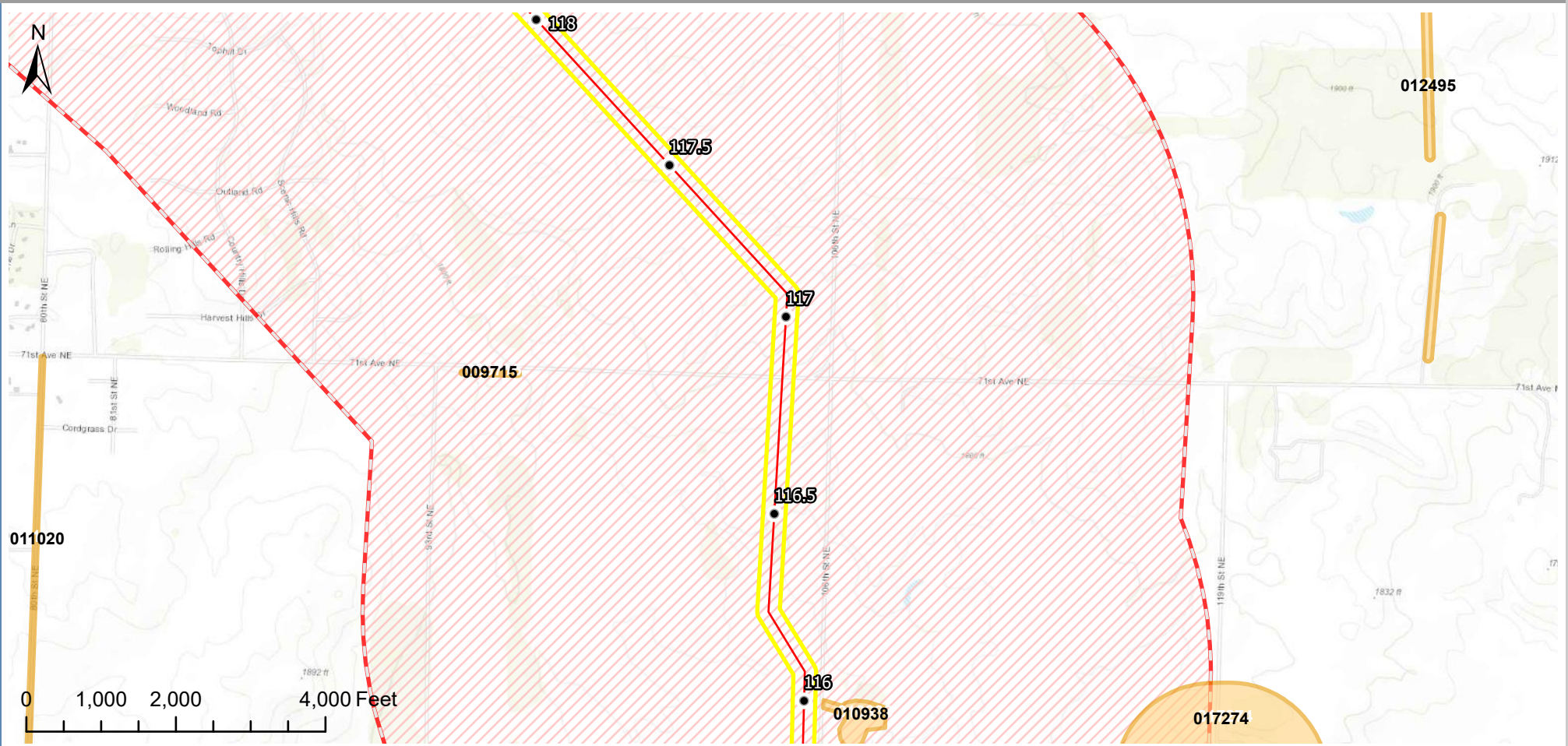
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● Milepost	1-Mile Buffer
● Historical Structure	Cultural Heritage Resource
● Previously Recorded Site	Previously Recorded Site
— Main Line	Previous Survey
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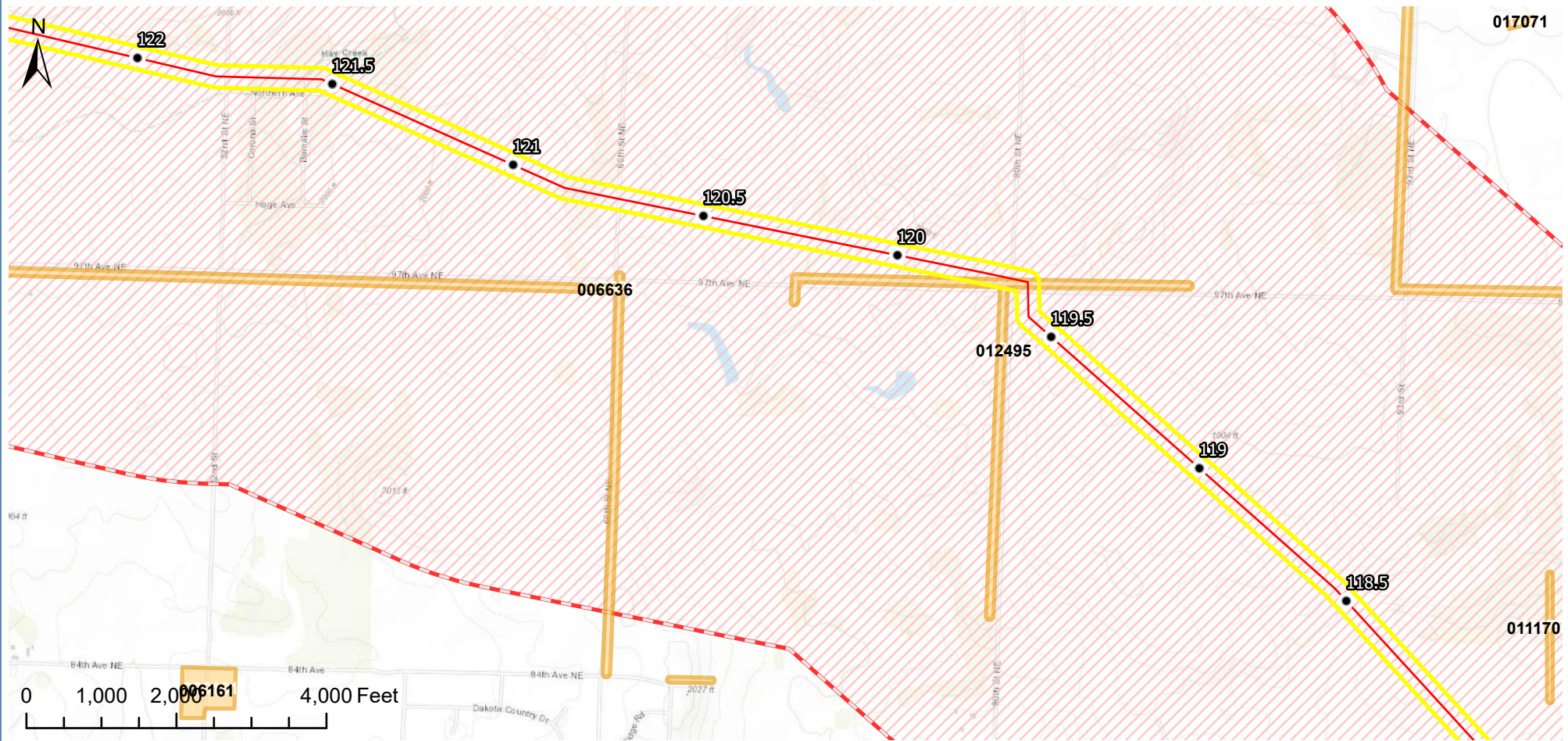
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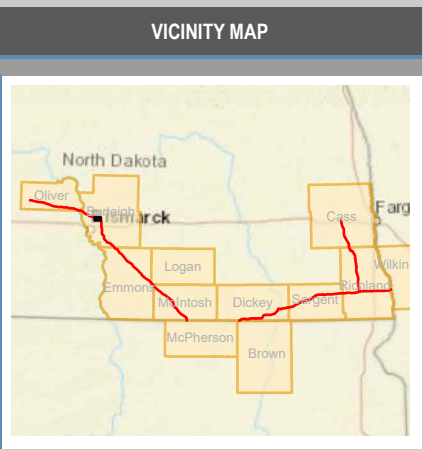
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● Historical Structure	■ Cultural Heritage Resource
● Previously Recorded Site	■ Previously Recorded Site
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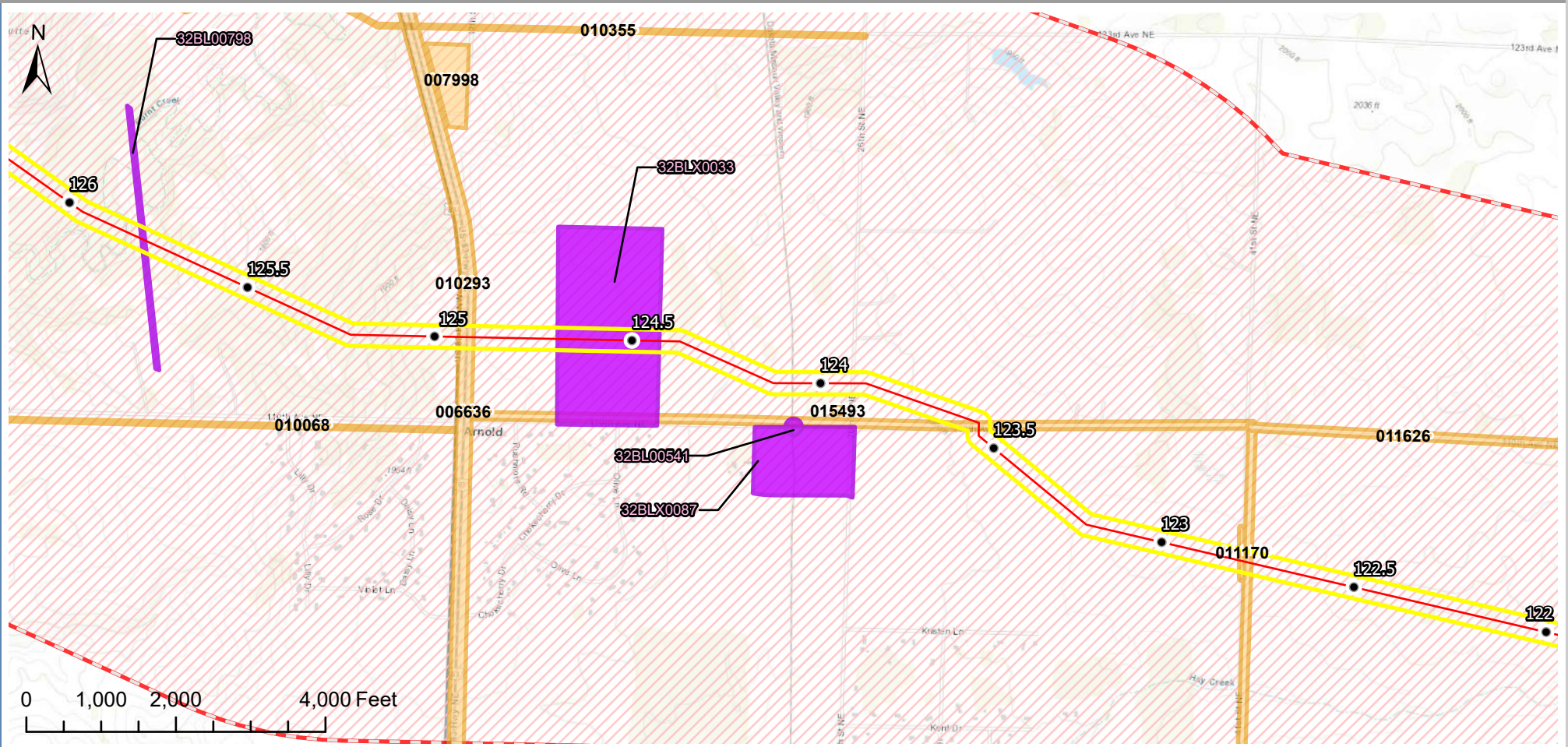
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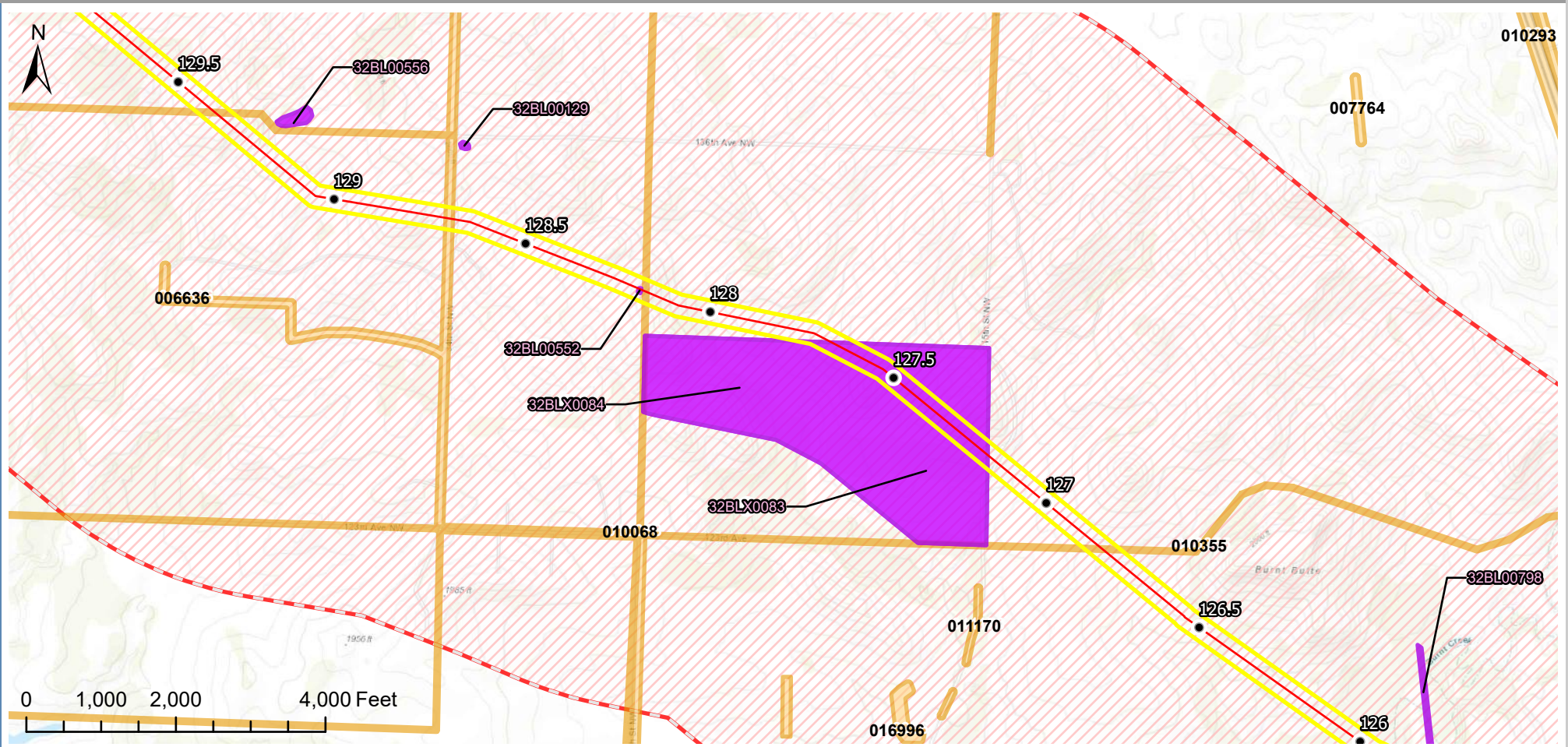
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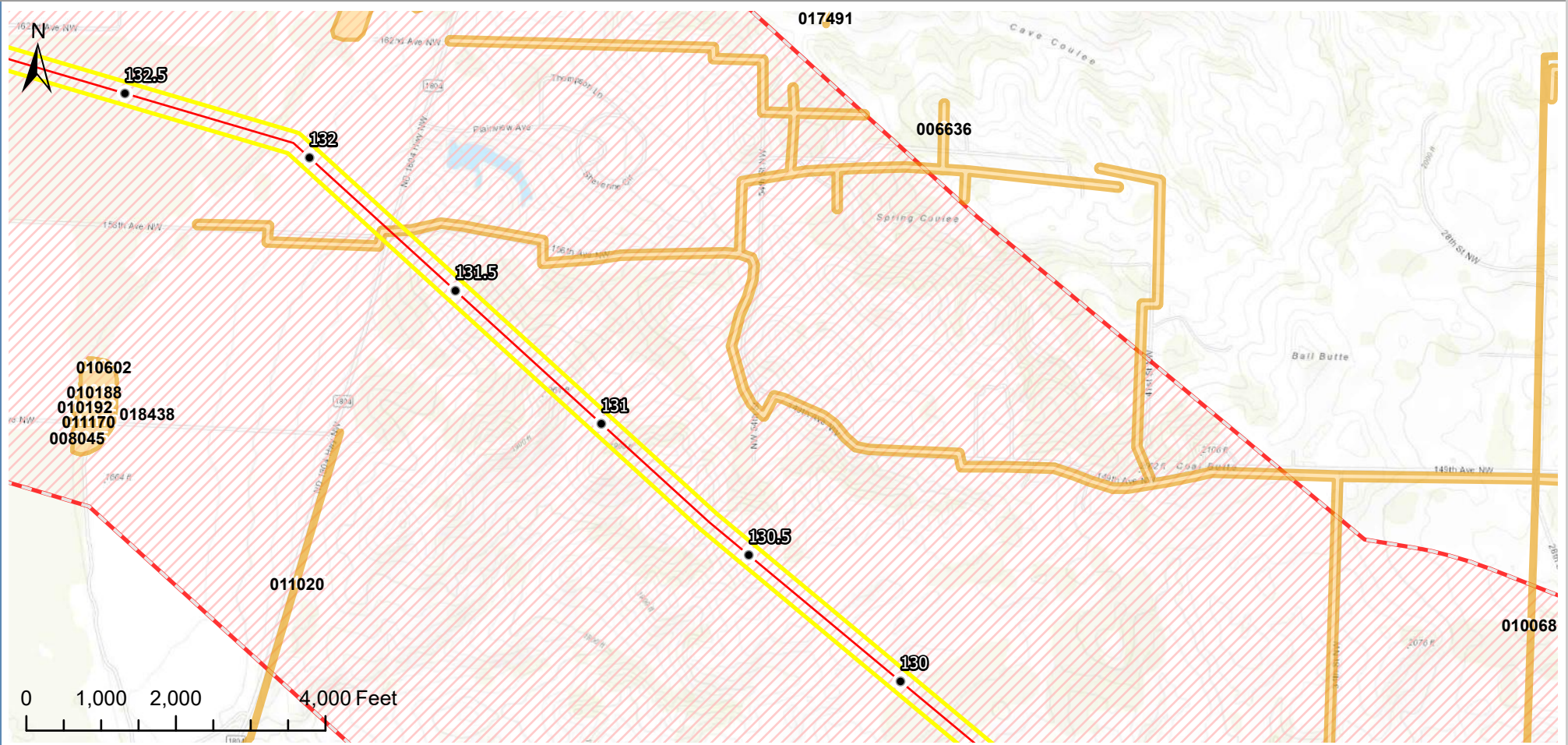
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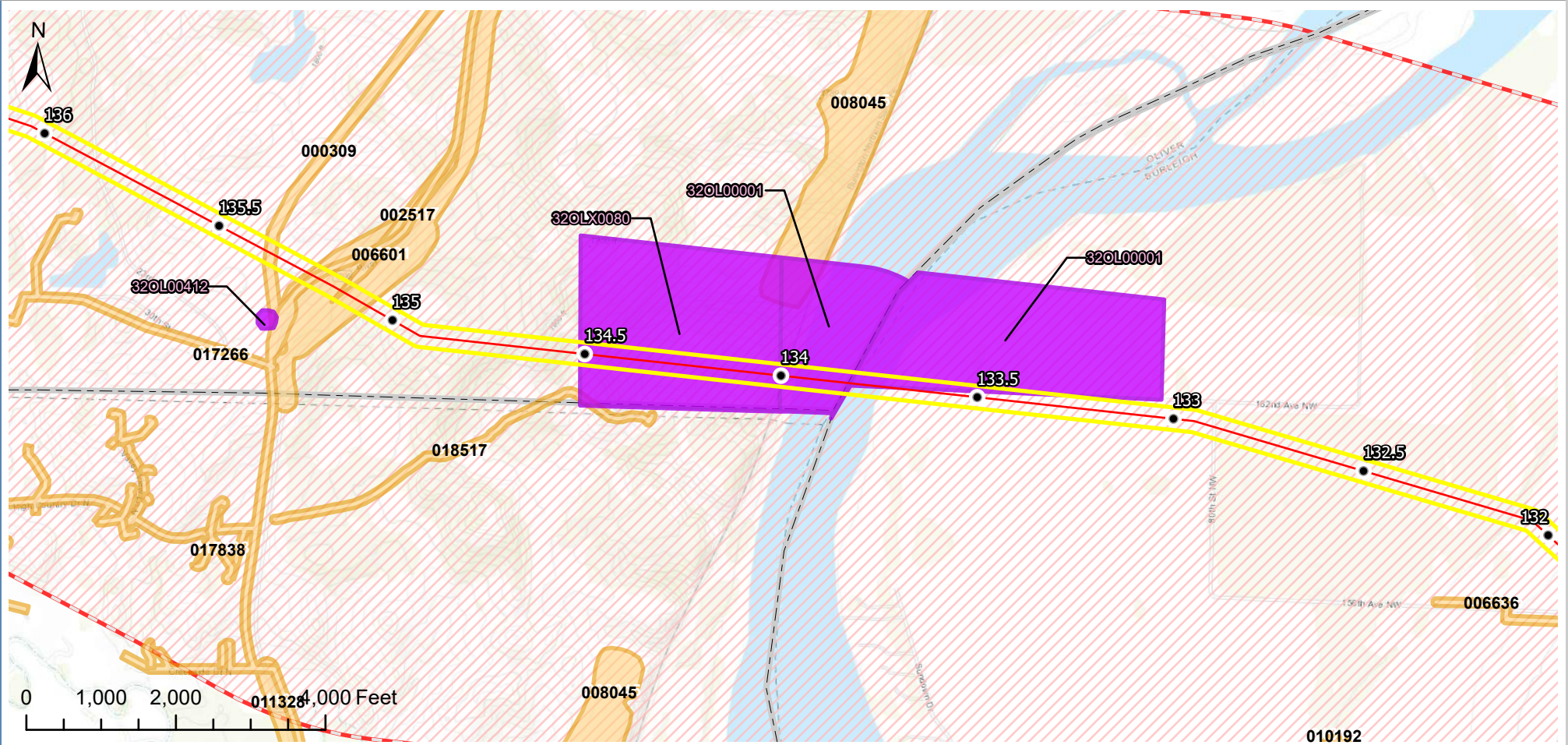
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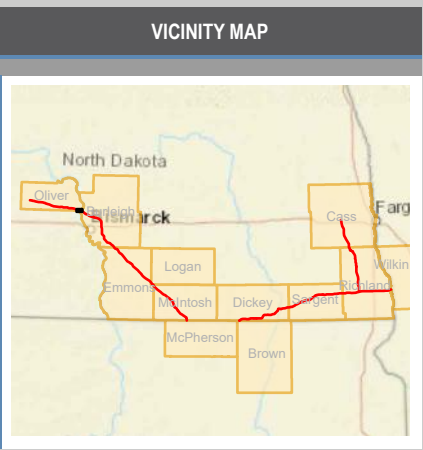
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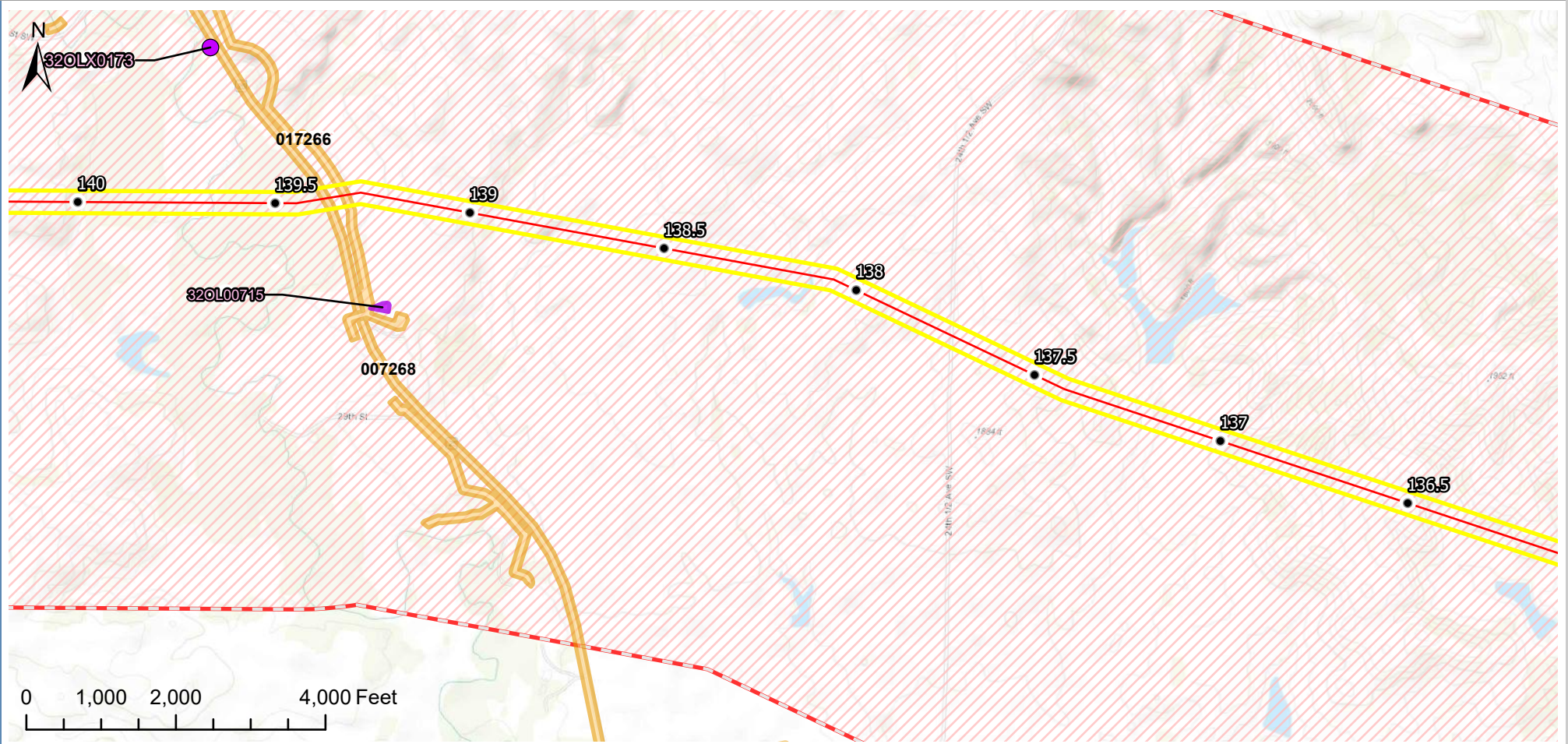


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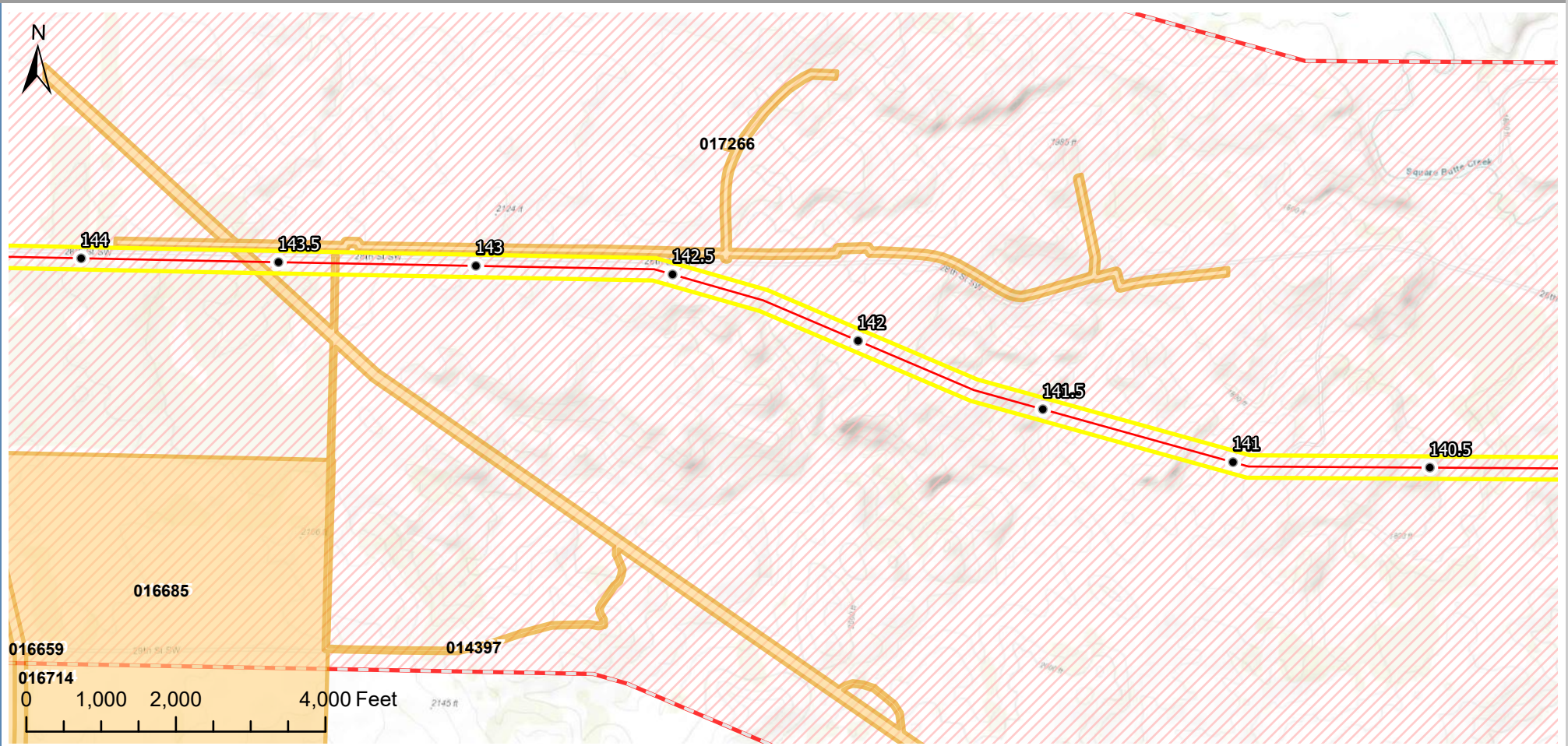
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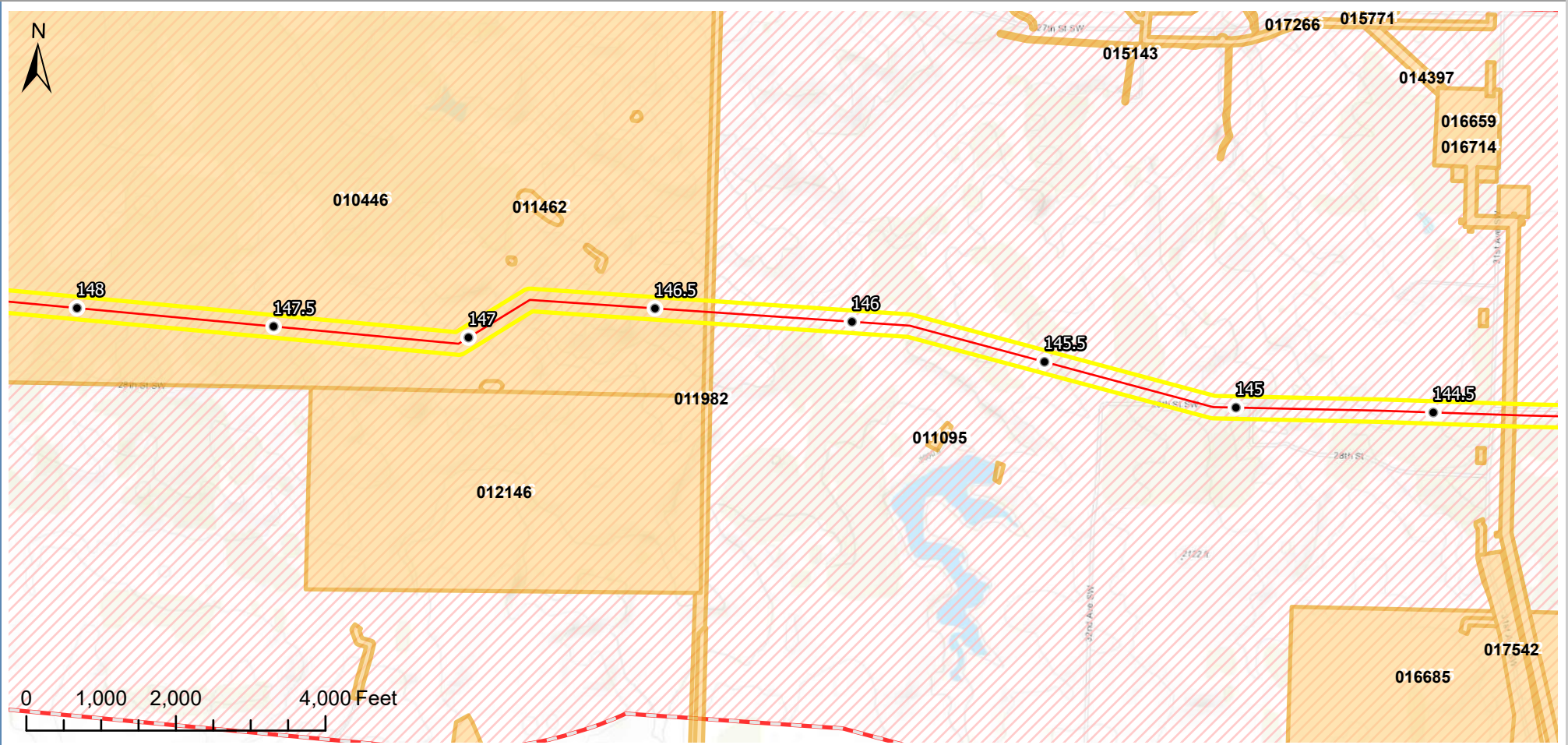
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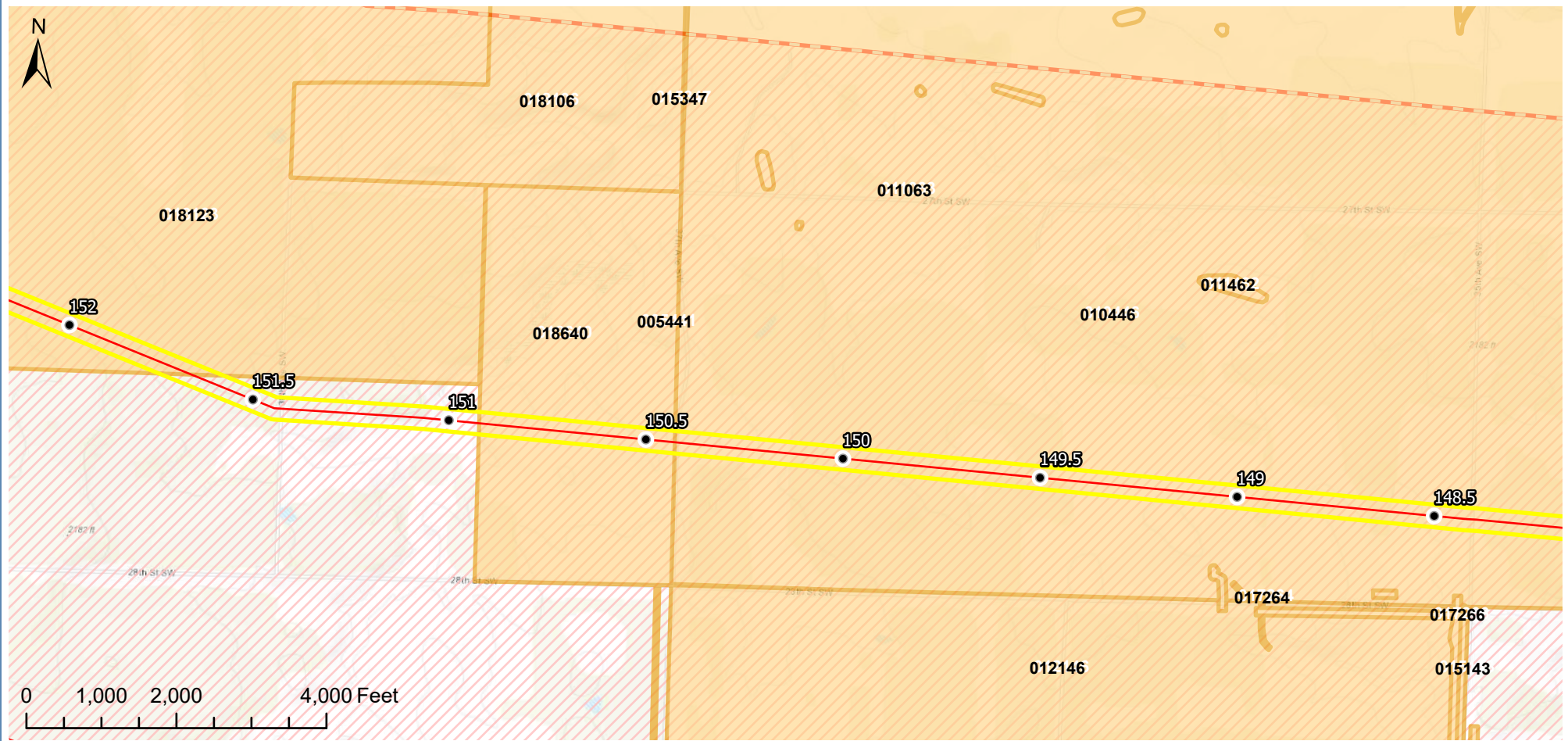
BACKGROUND REVIEW RESULTS MAP - NORTH DAKOTA



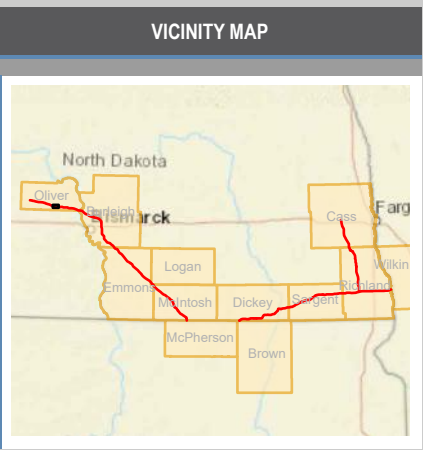
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VICINITY MAP	LEGEND	PREPARED BY	MIDWEST CARBON EXPRESS PROJECT
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BACKGROUND REVIEW RESULTS MAP - NORTH DAKOTA



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LEGEND

● Milepost	▨ 1-Mile Buffer
● Historical Structure	■ Cultural Heritage Resource
● Previously Recorded Site	■ Previously Recorded Site
— Main Line	▨ Previous Survey
— Lateral Line	■ Sequestration Site Evaluation Area (Site TBD)
— Trunk Line	▭ County Boundary
▨ Project ESA	

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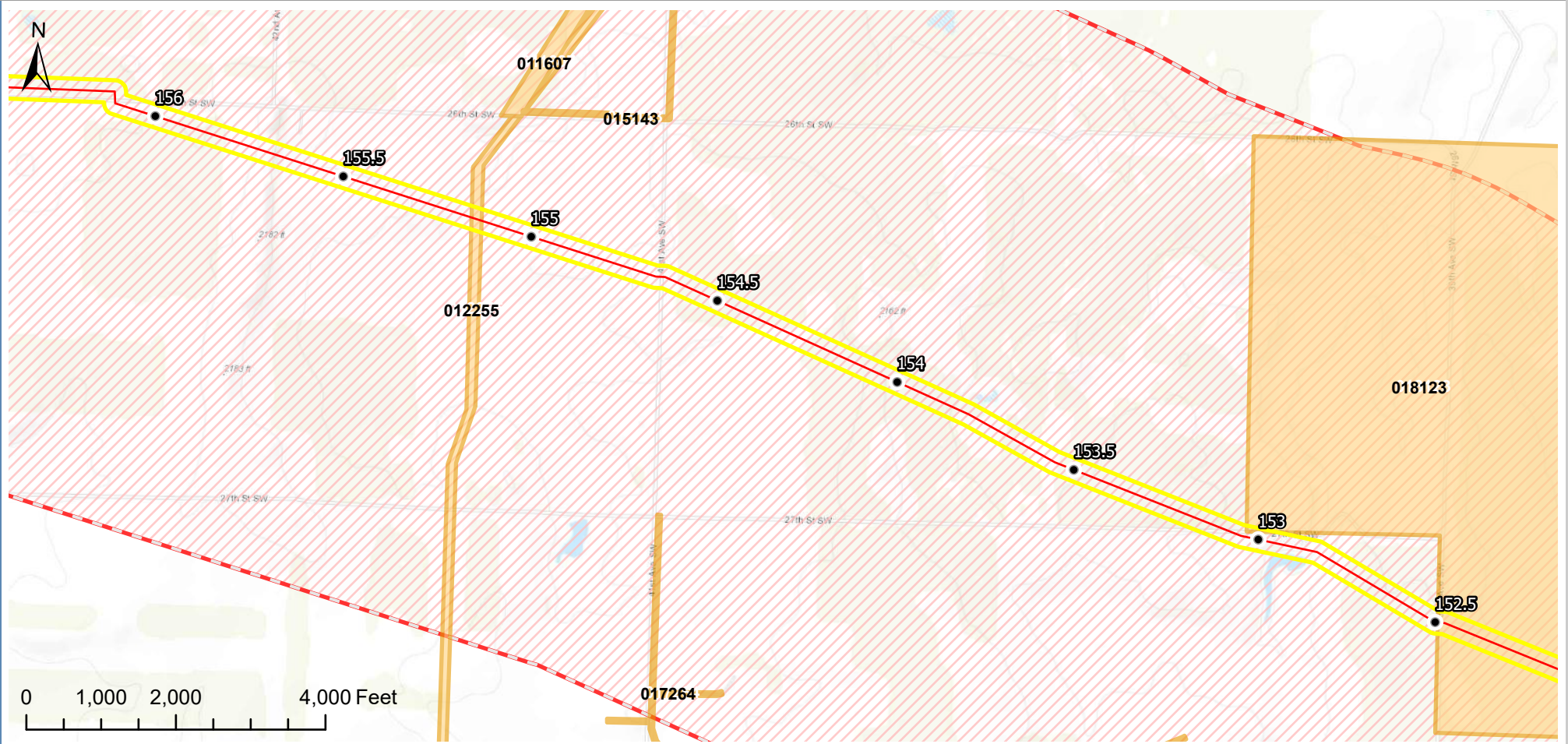
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BACKGROUND REVIEW RESULTS MAP - NORTH DAKOTA

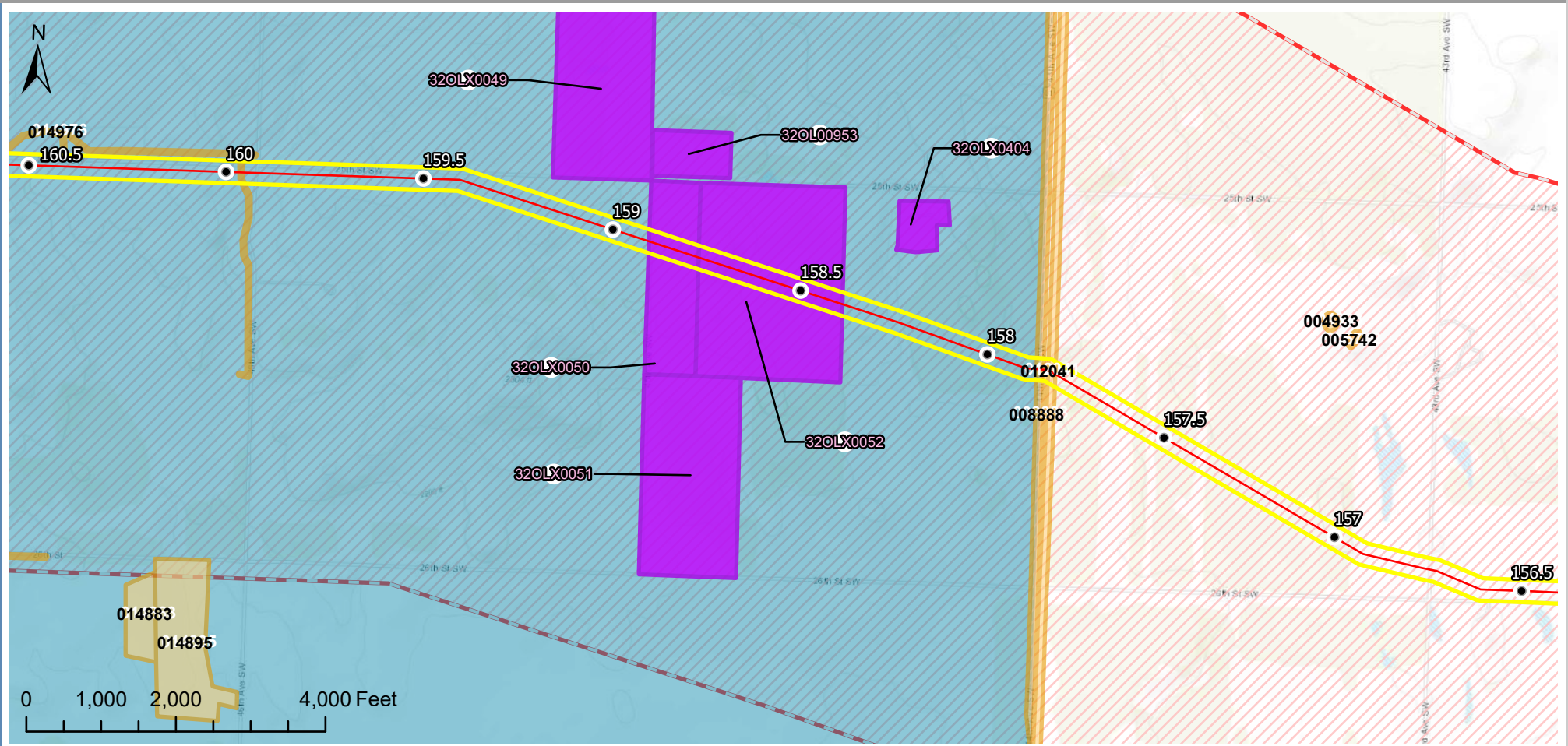


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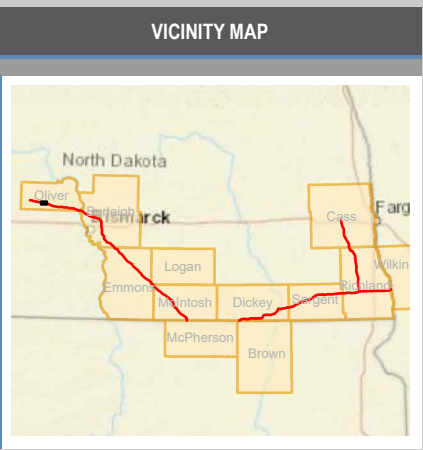
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BACKGROUND REVIEW RESULTS MAP - NORTH DAKOTA



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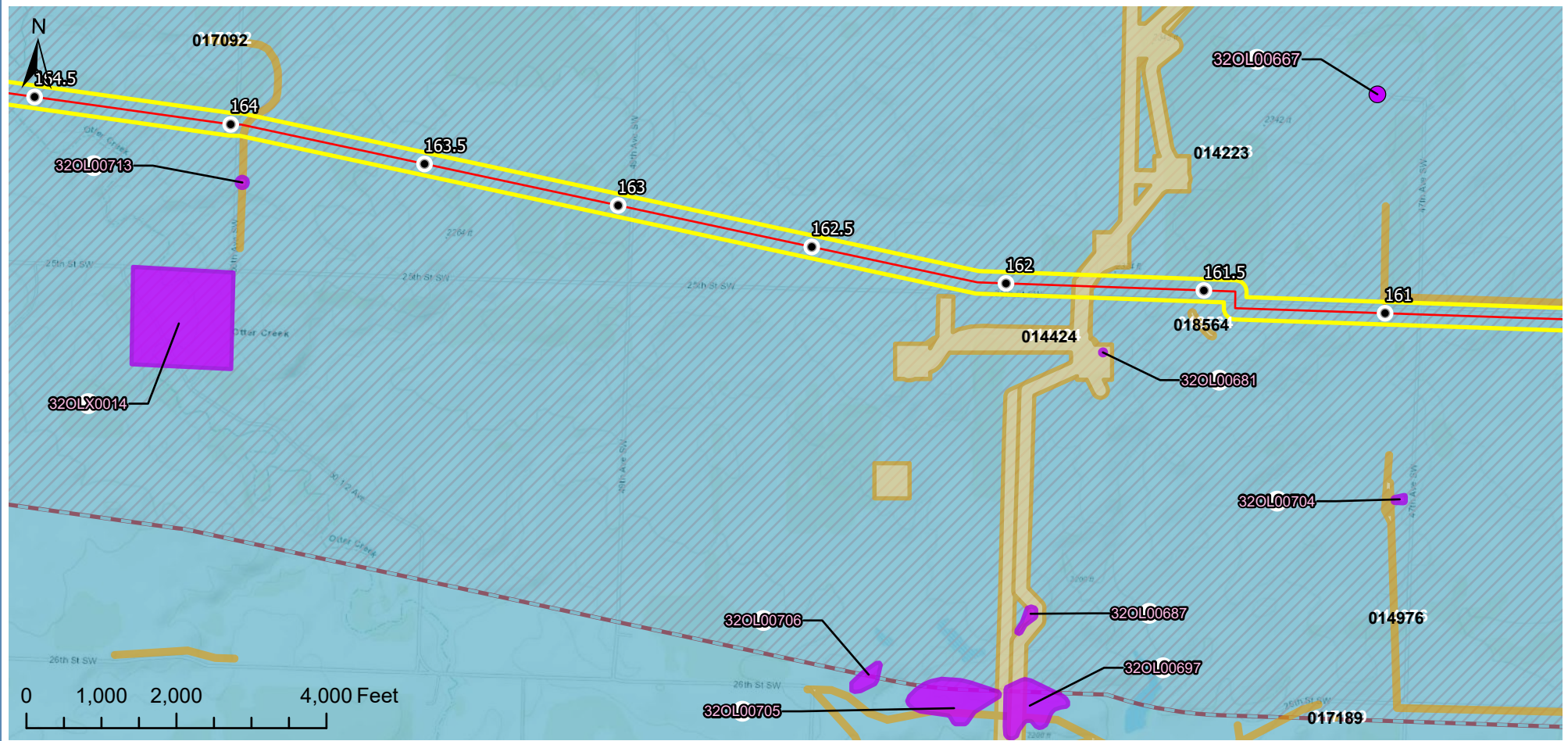
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● Milepost	▨ 1-Mile Buffer
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BACKGROUND REVIEW RESULTS MAP - NORTH DAKOTA




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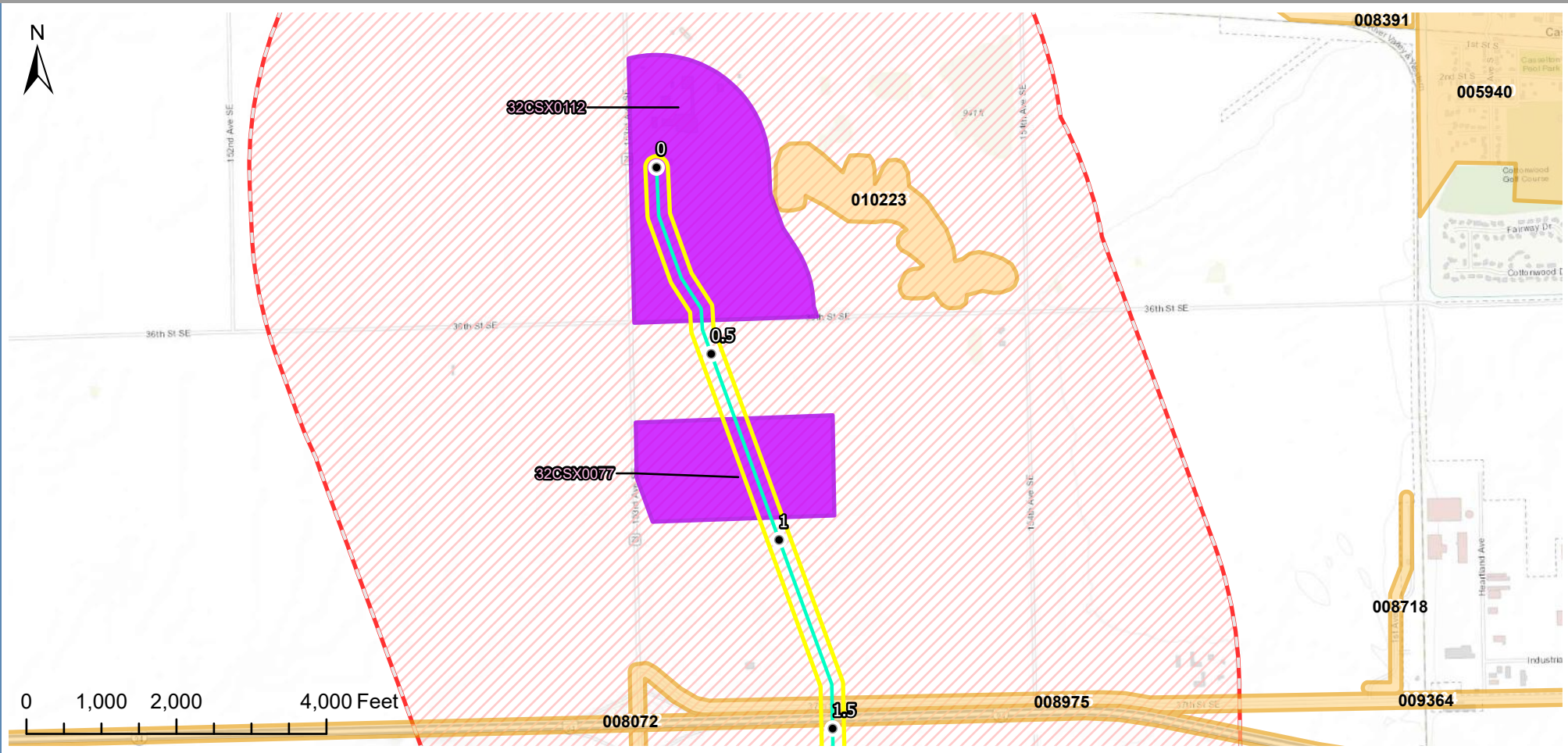
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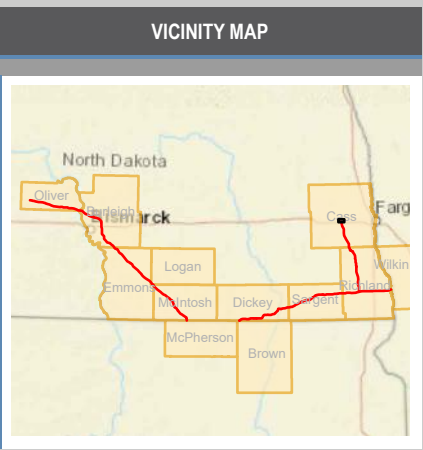
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BACKGROUND REVIEW RESULTS MAP - NORTH DAKOTA



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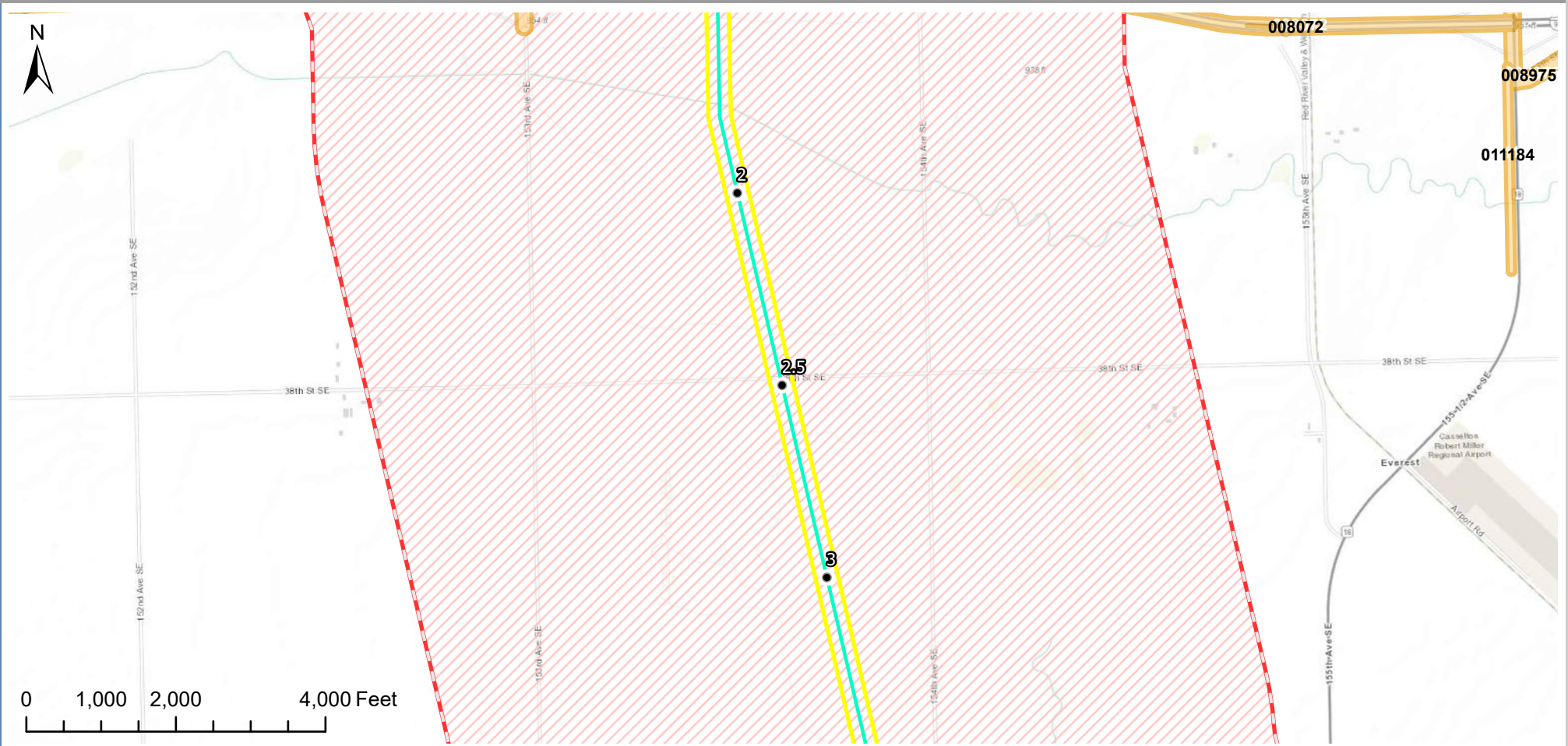


LEGEND	
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● Historical Structure	■ Cultural Heritage Resource
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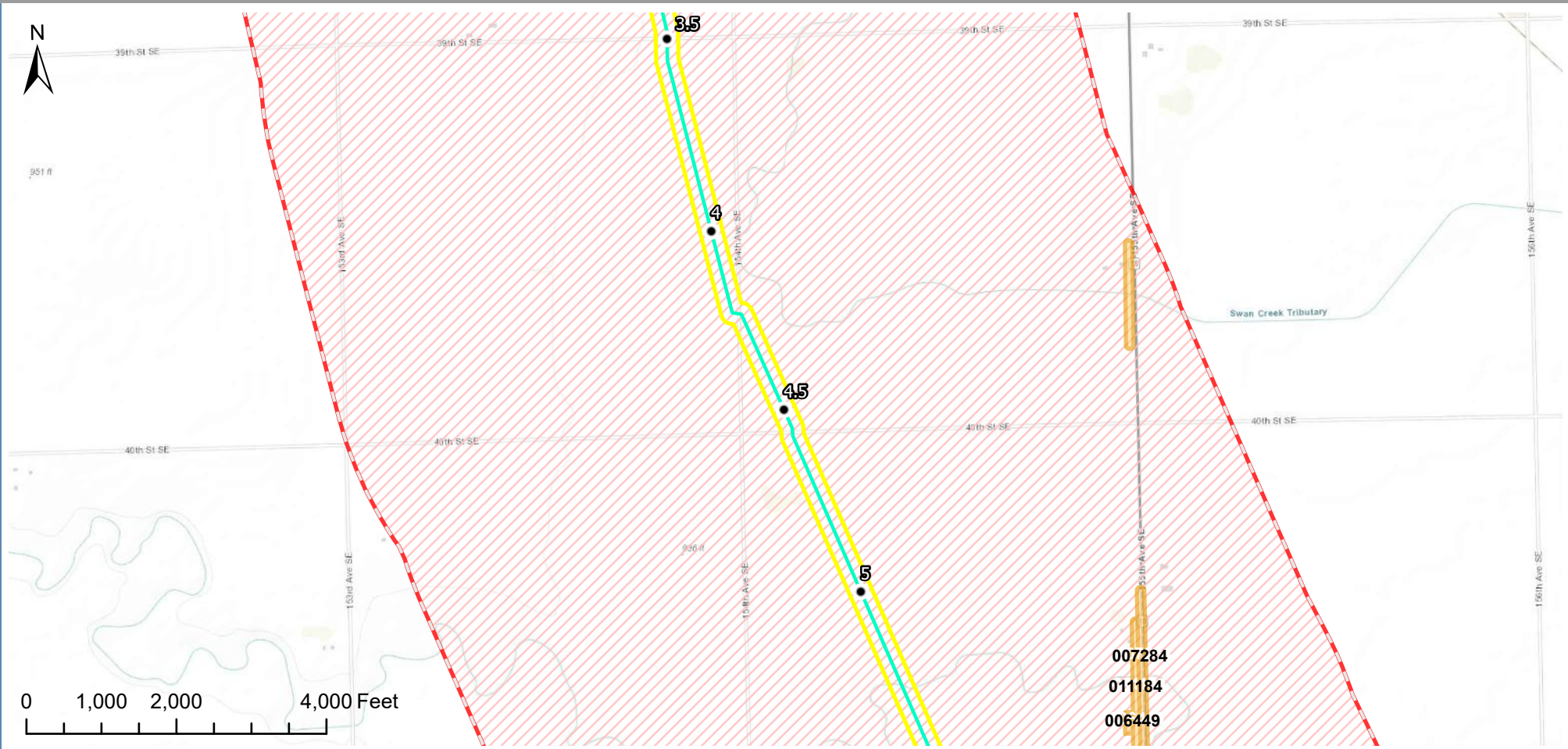
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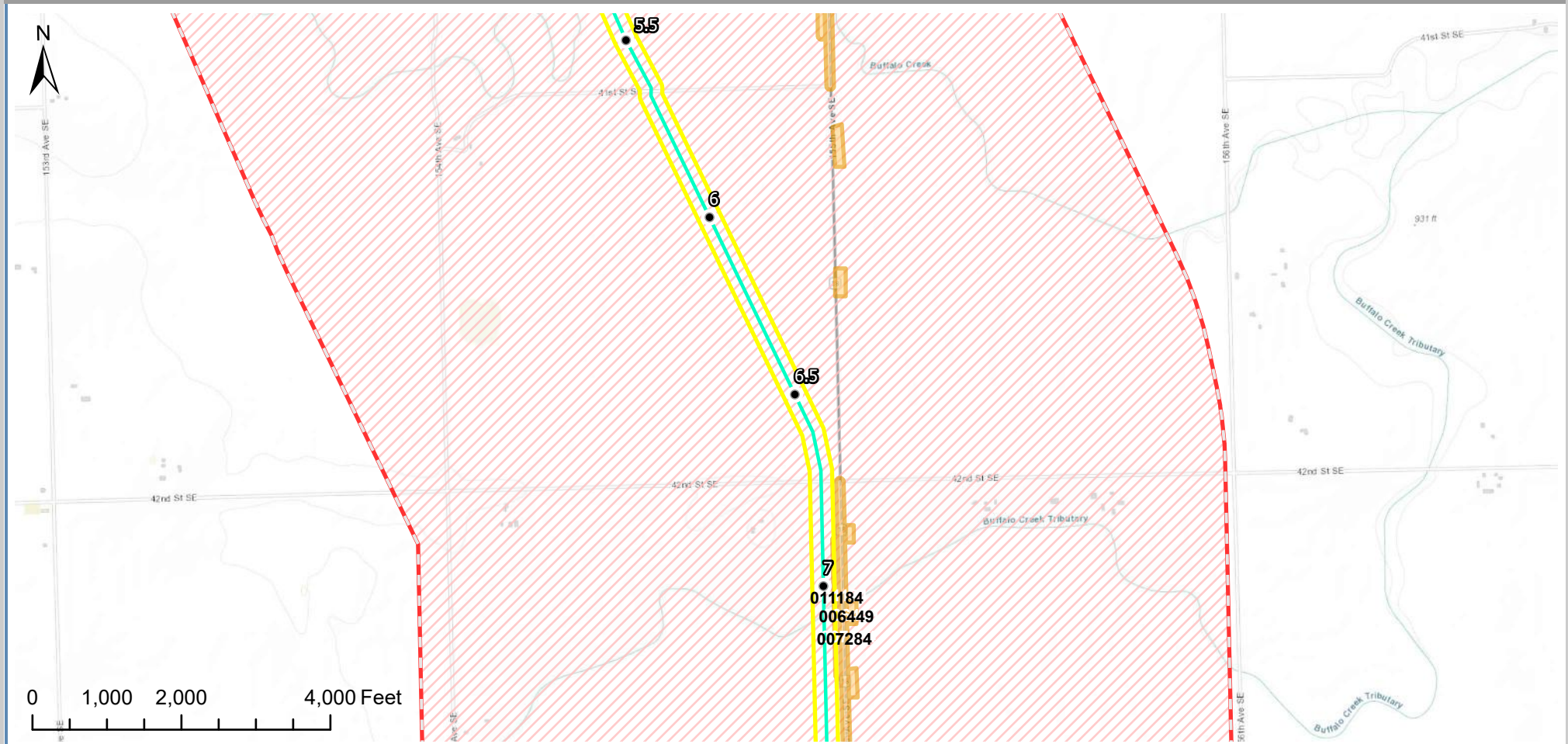
BACKGROUND REVIEW RESULTS MAP - NORTH DAKOTA




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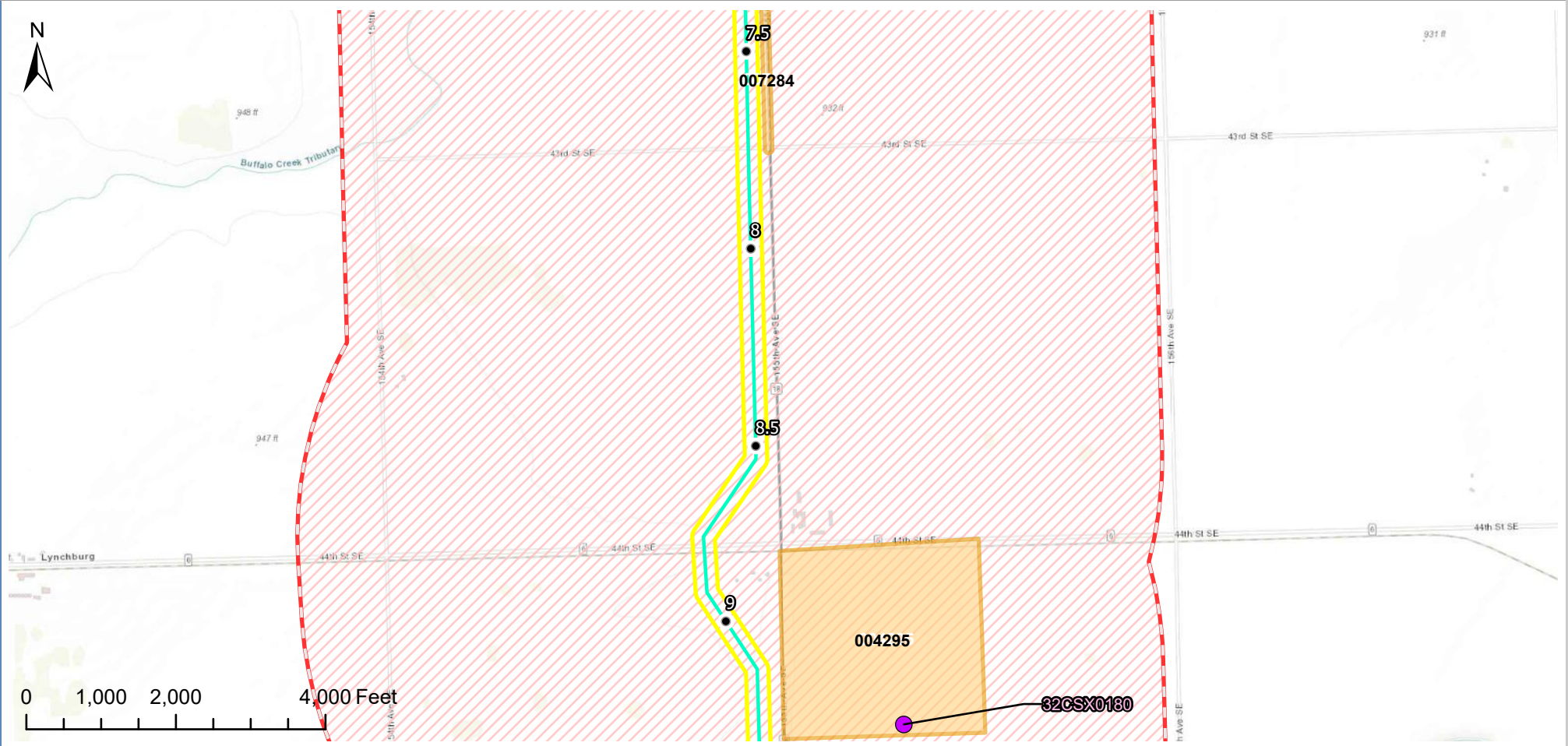
BACKGROUND REVIEW RESULTS MAP - NORTH DAKOTA



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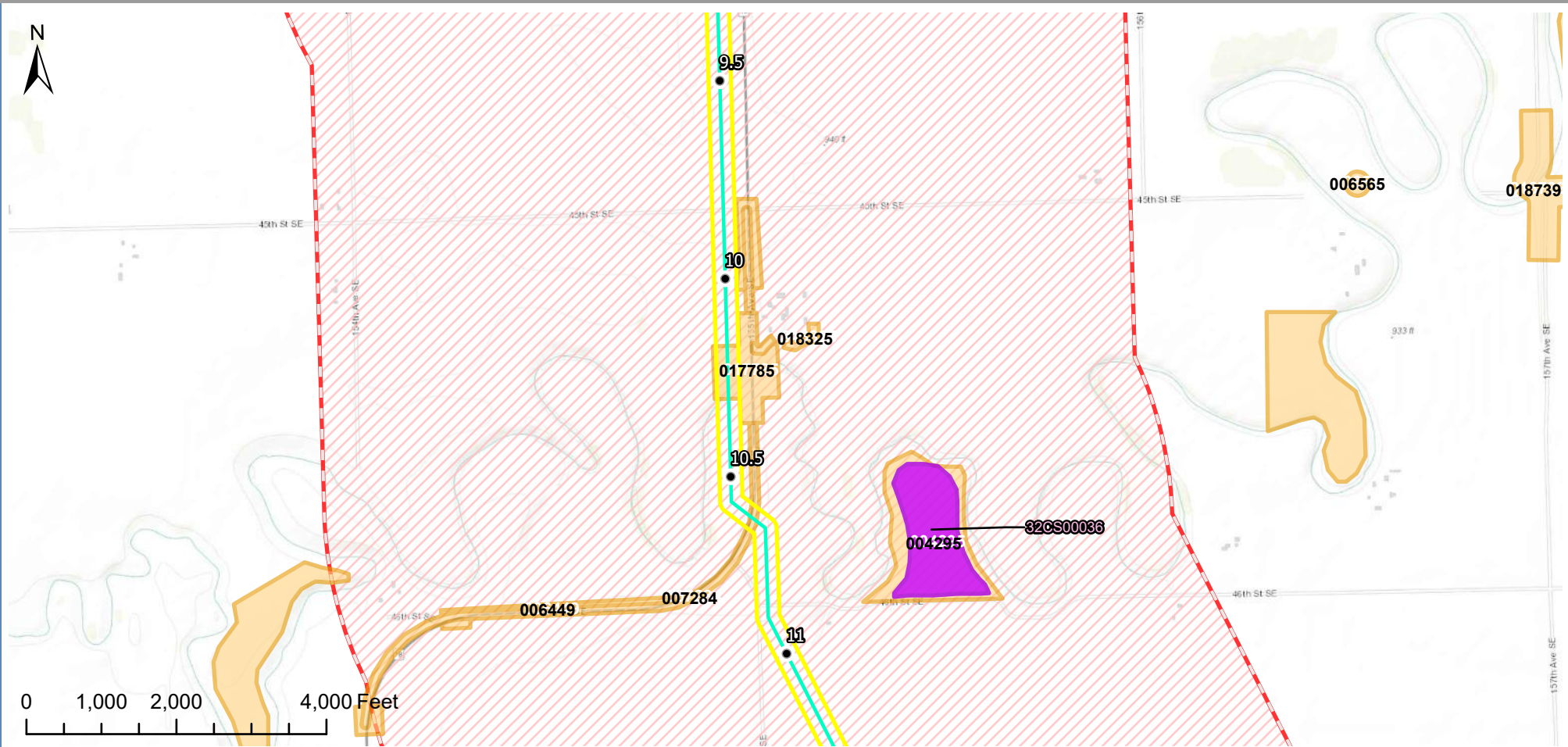
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BACKGROUND REVIEW RESULTS MAP - NORTH DAKOTA




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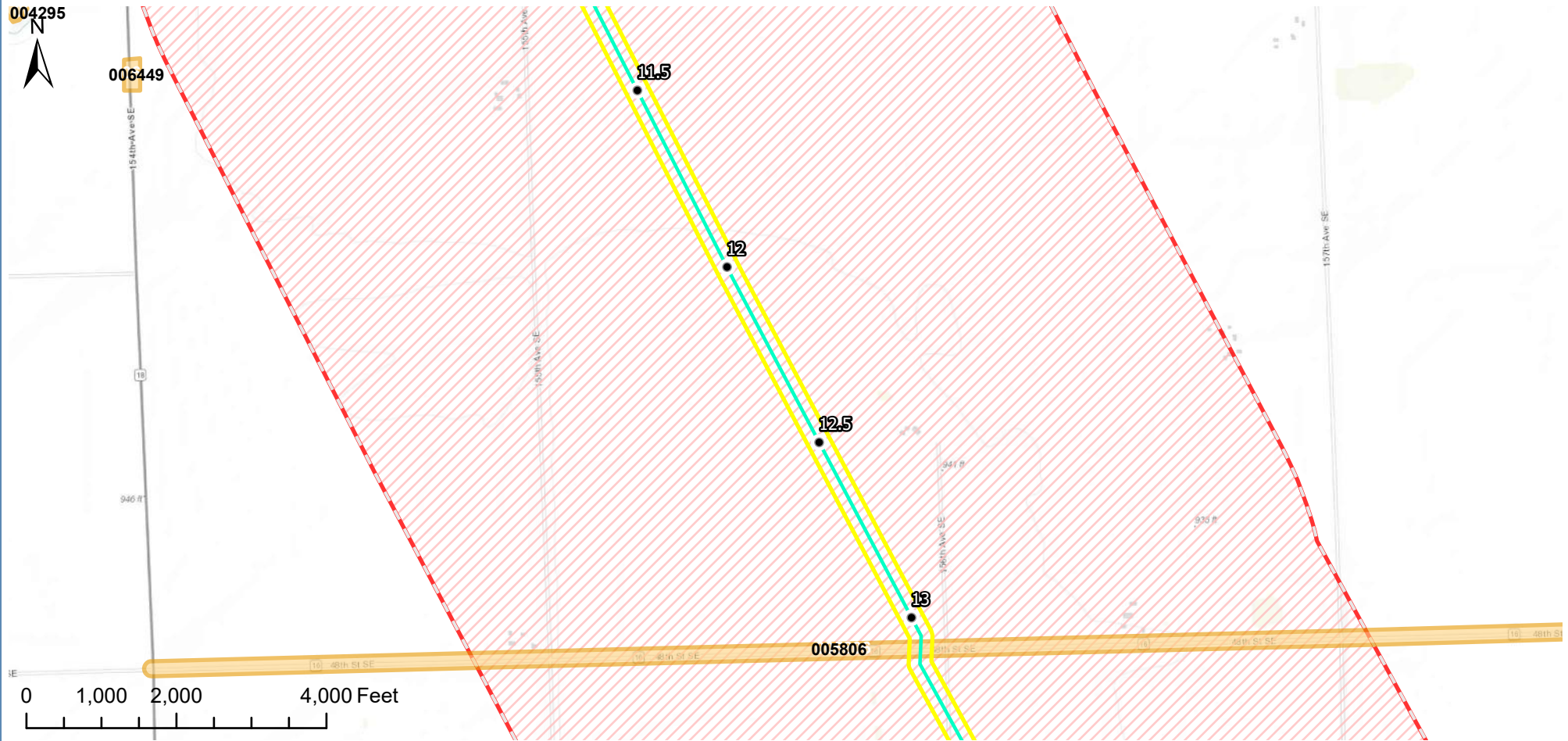


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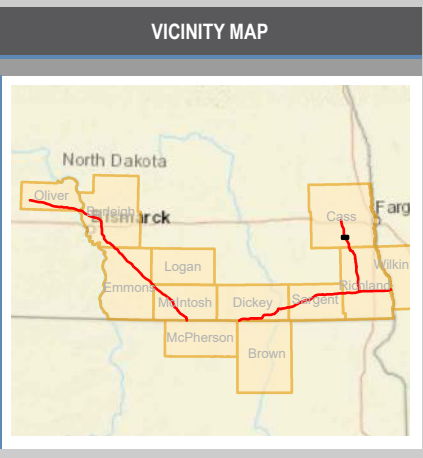
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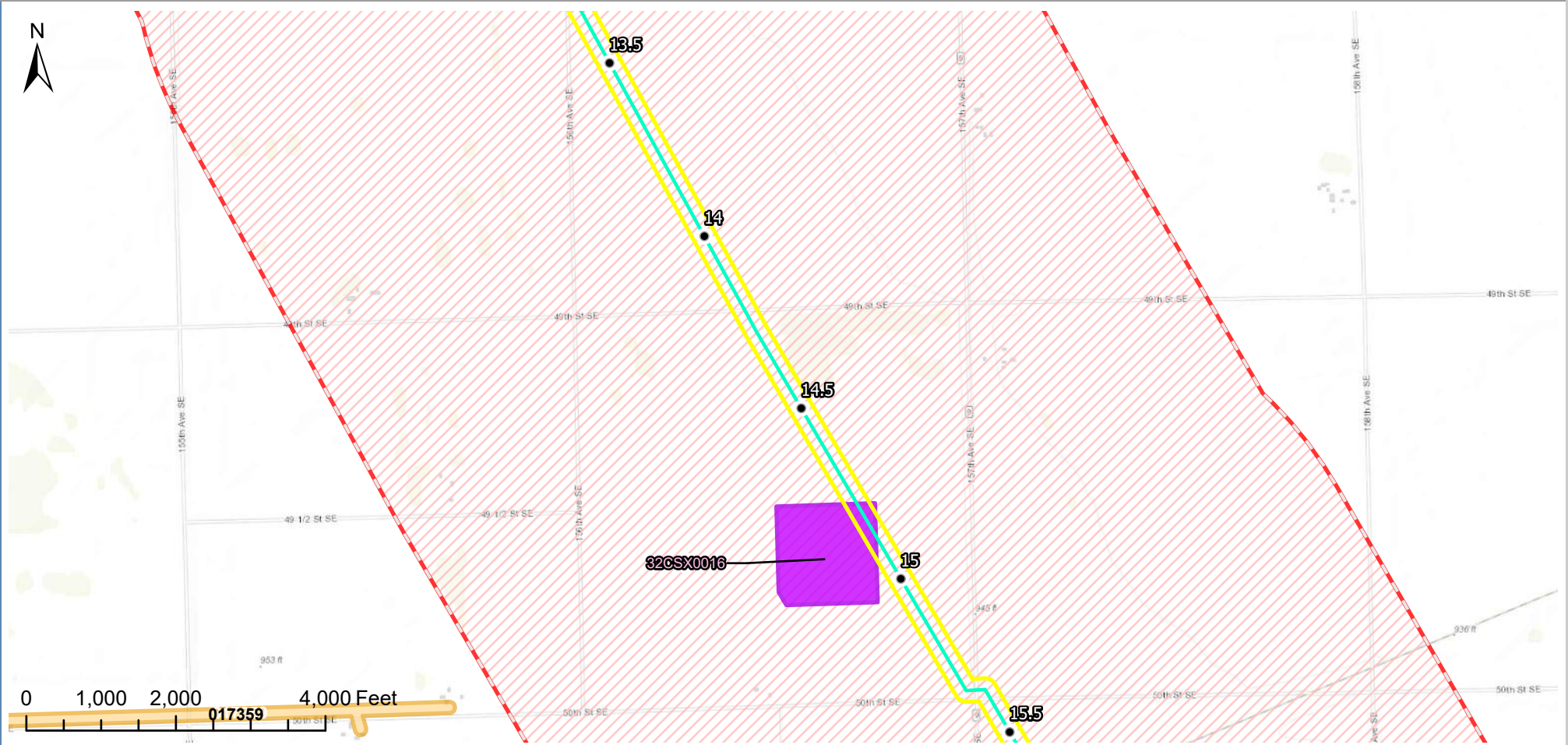


LEGEND	
● Milepost	▨ 1-Mile Buffer
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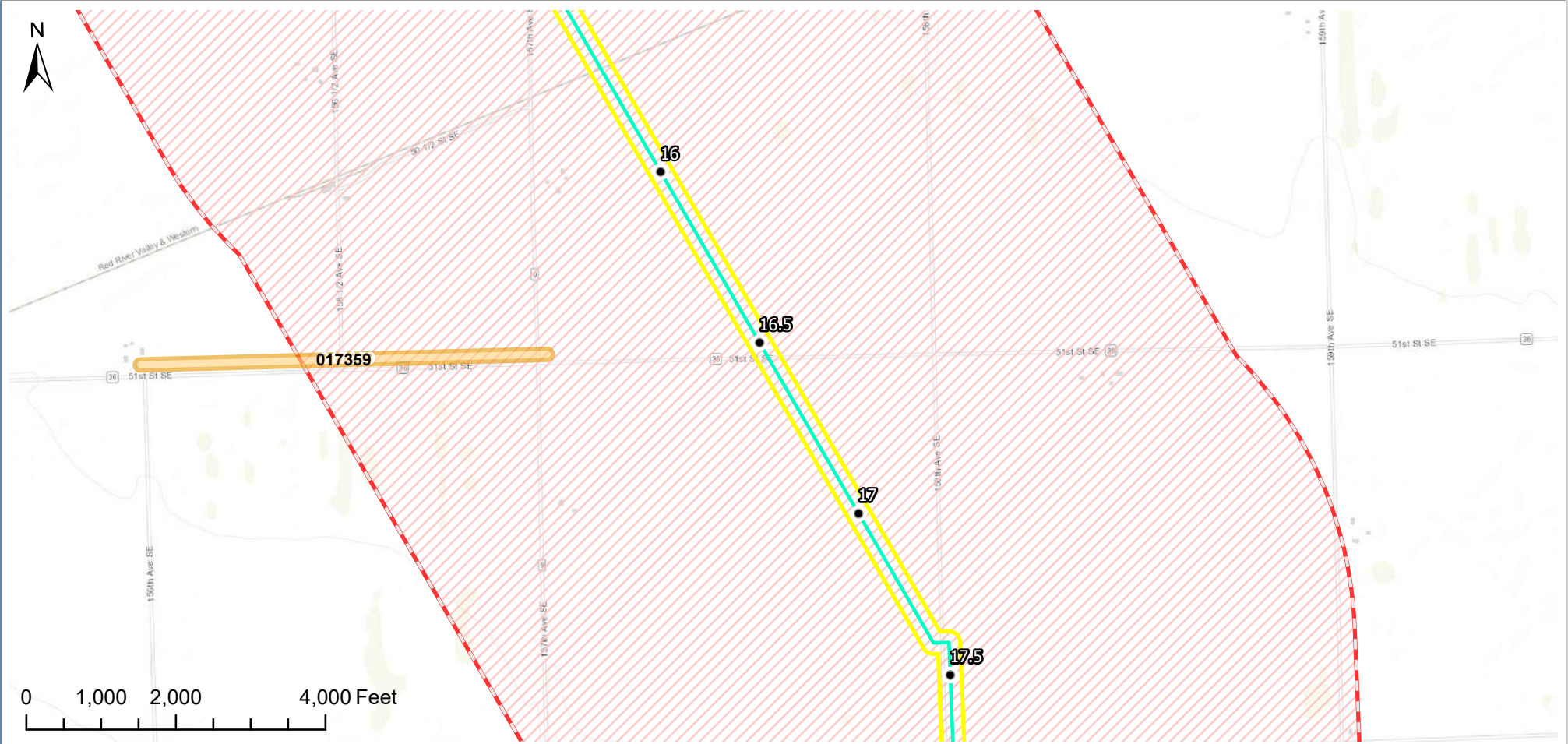
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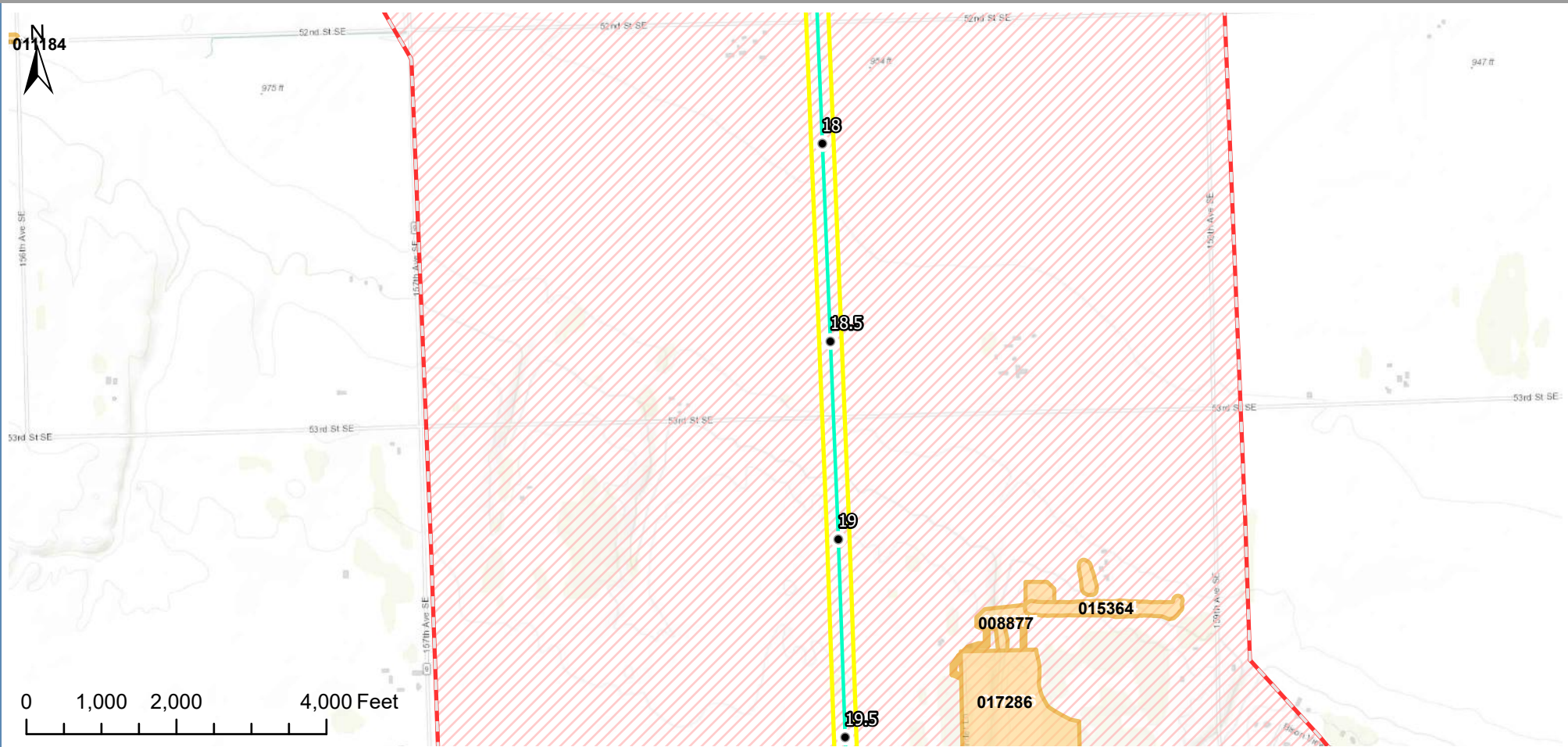
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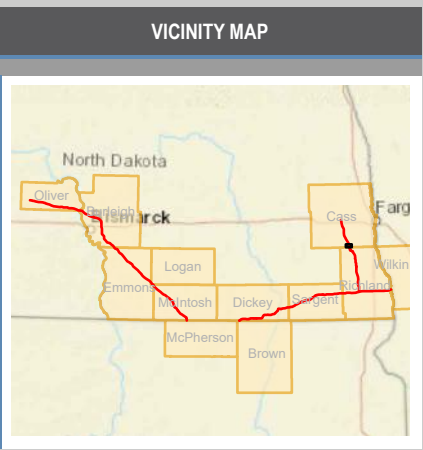
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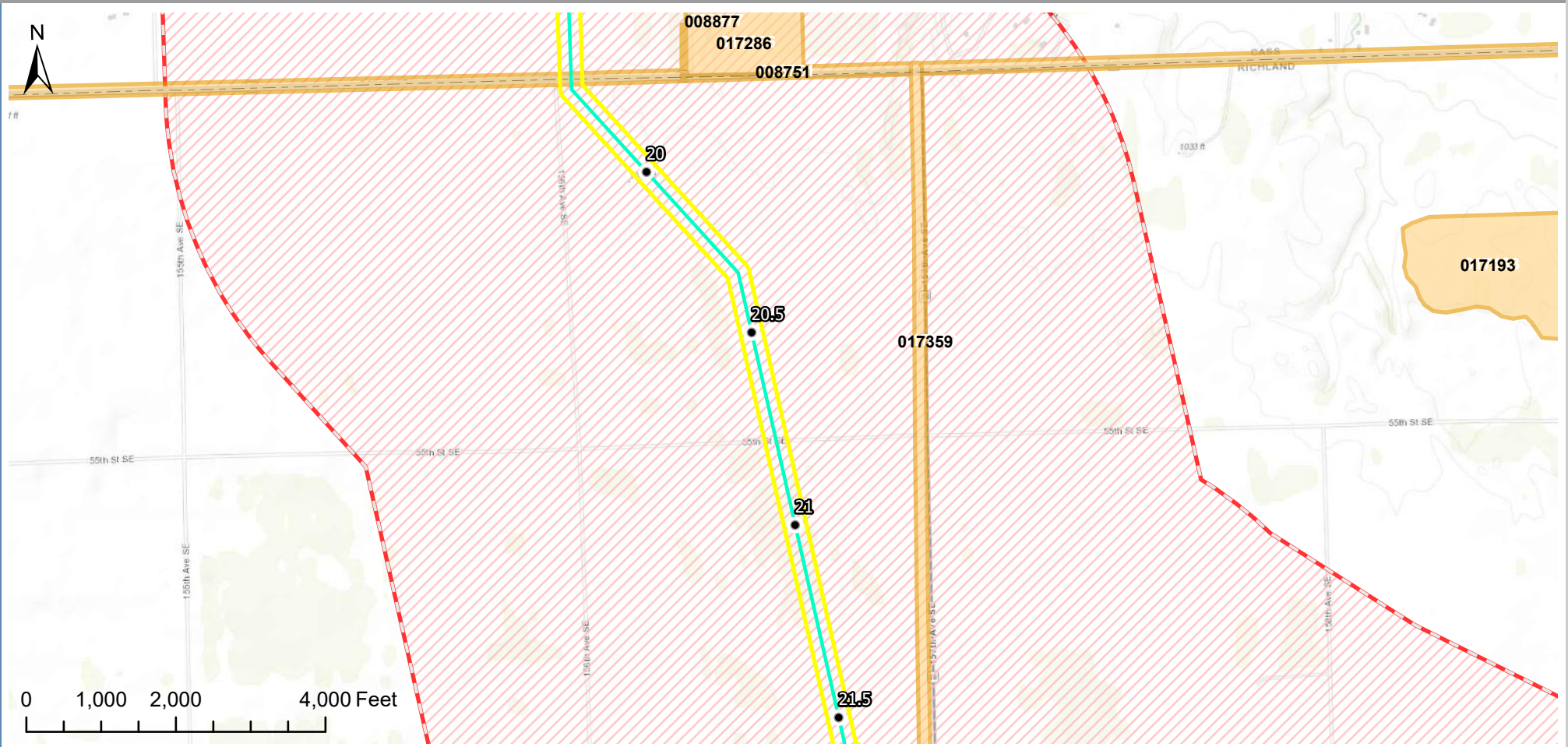


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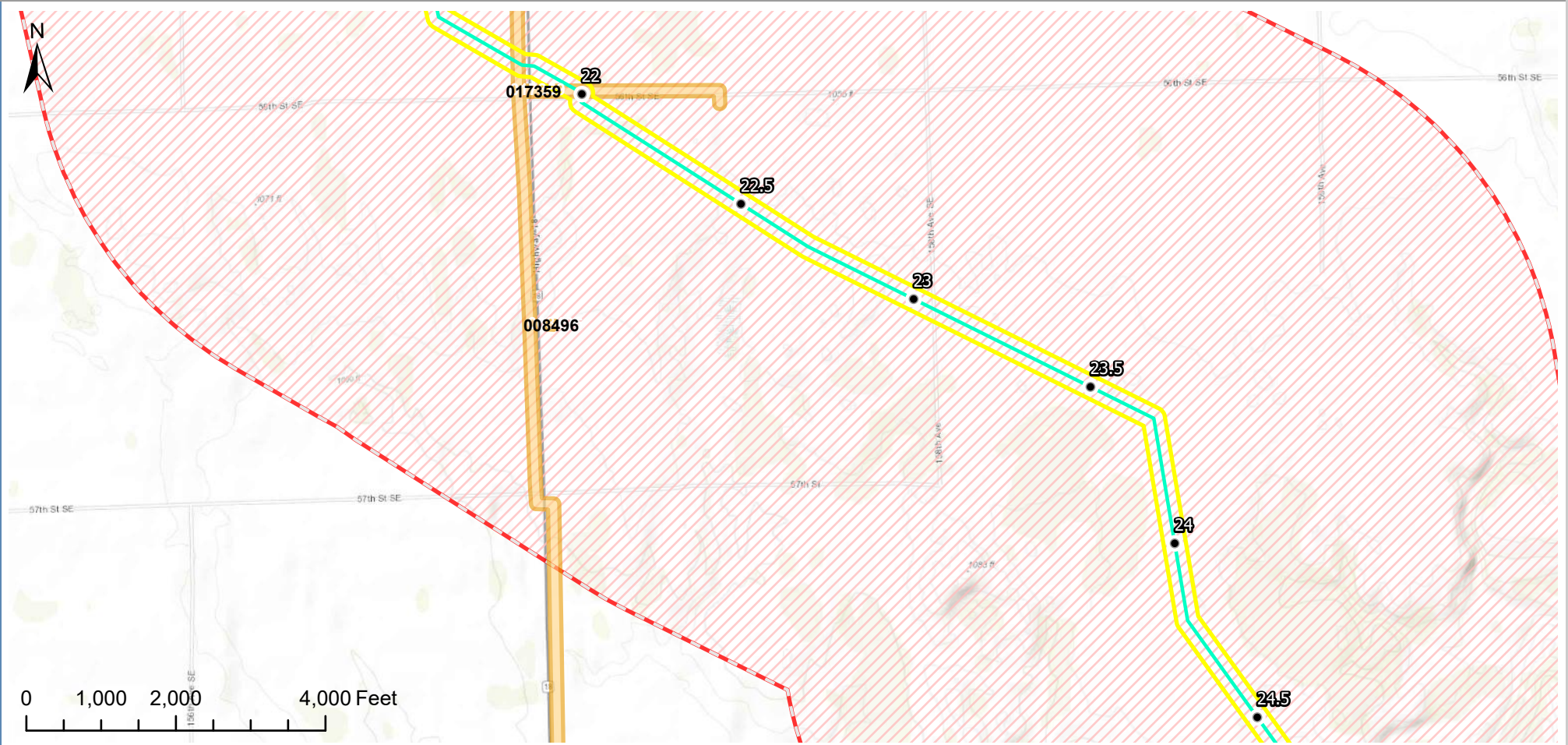
BACKGROUND REVIEW RESULTS MAP - NORTH DAKOTA



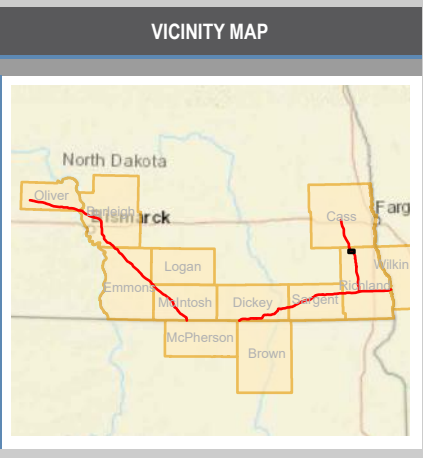
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BACKGROUND REVIEW RESULTS MAP - NORTH DAKOTA



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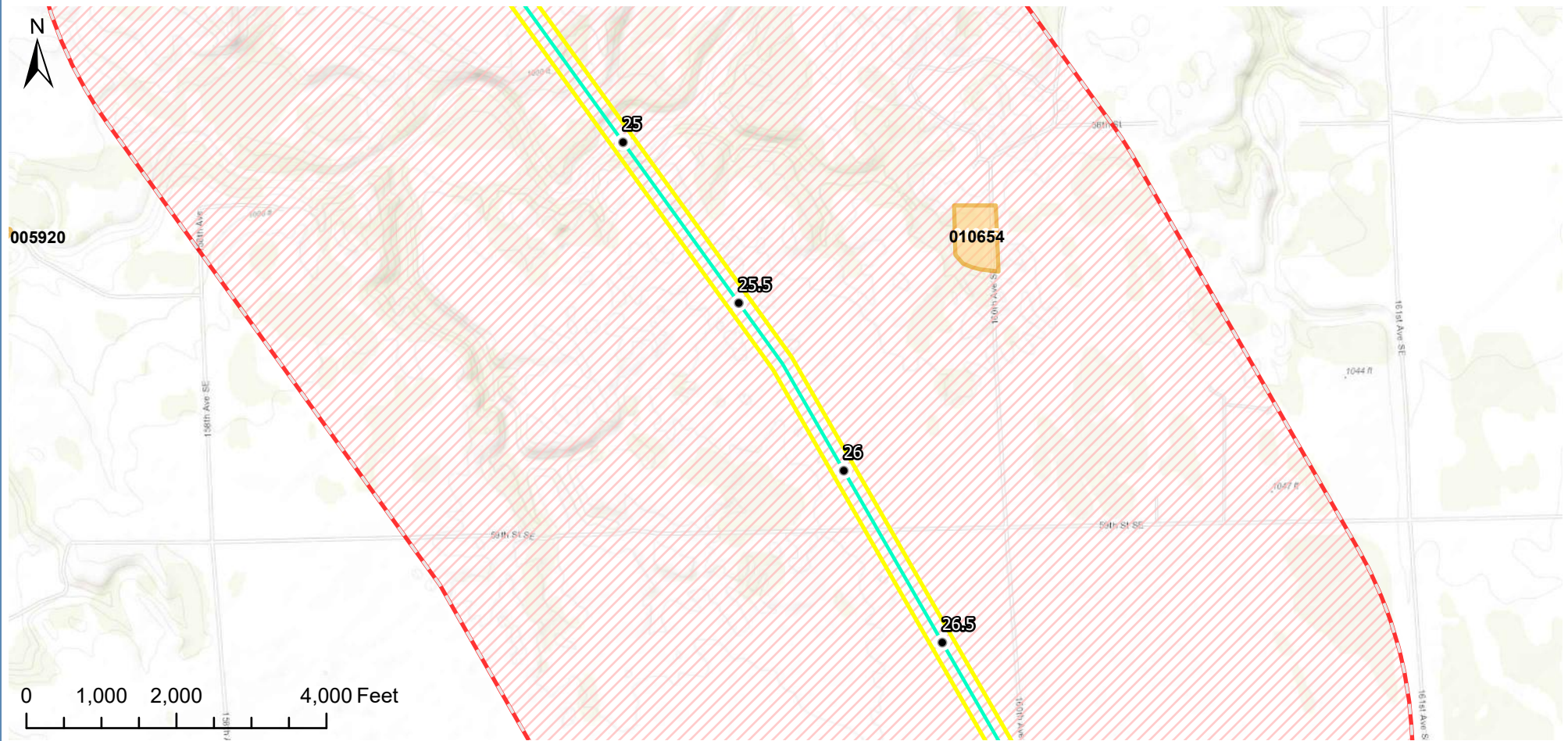
LEGEND

● Milepost	▨ 1-Mile Buffer
● Historical Structure	■ Cultural Heritage Resource
● Previously Recorded Site	■ Previously Recorded Site
— Main Line	▨ Previous Survey
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— Trunk Line	▭ County Boundary
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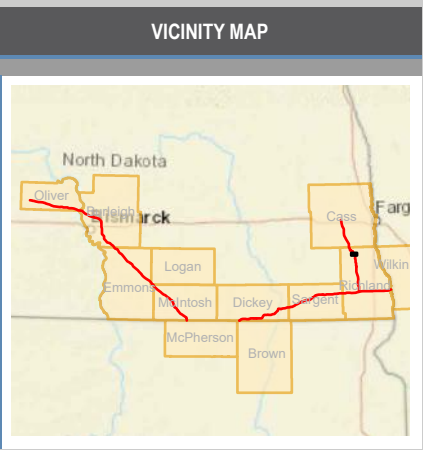
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1 inch equals 2,000 feet	NAD 1983 BLM Zone 14N ftUS
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BACKGROUND REVIEW RESULTS MAP - NORTH DAKOTA



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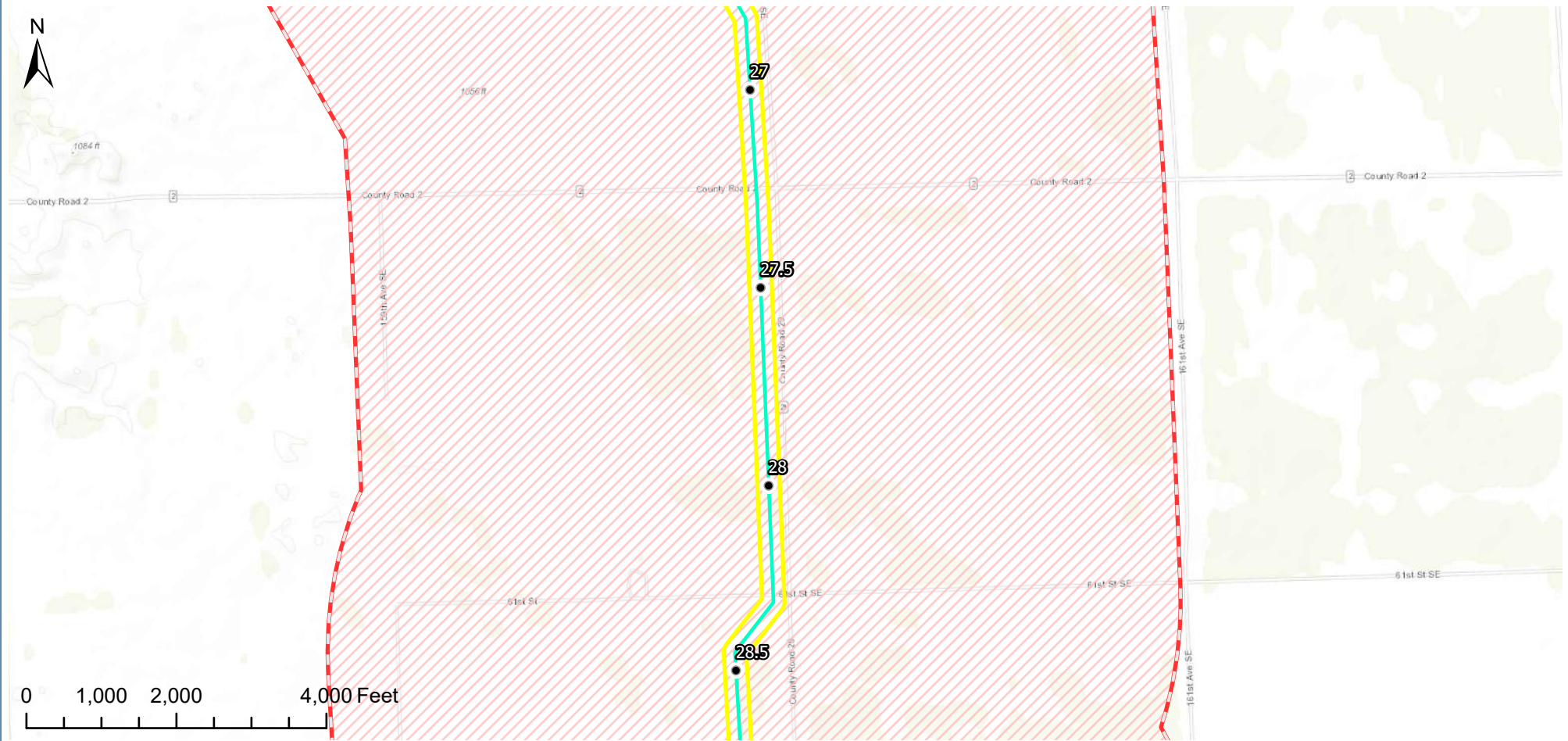


LEGEND	
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● Historical Structure	■ Cultural Heritage Resource
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BACKGROUND REVIEW RESULTS MAP - NORTH DAKOTA

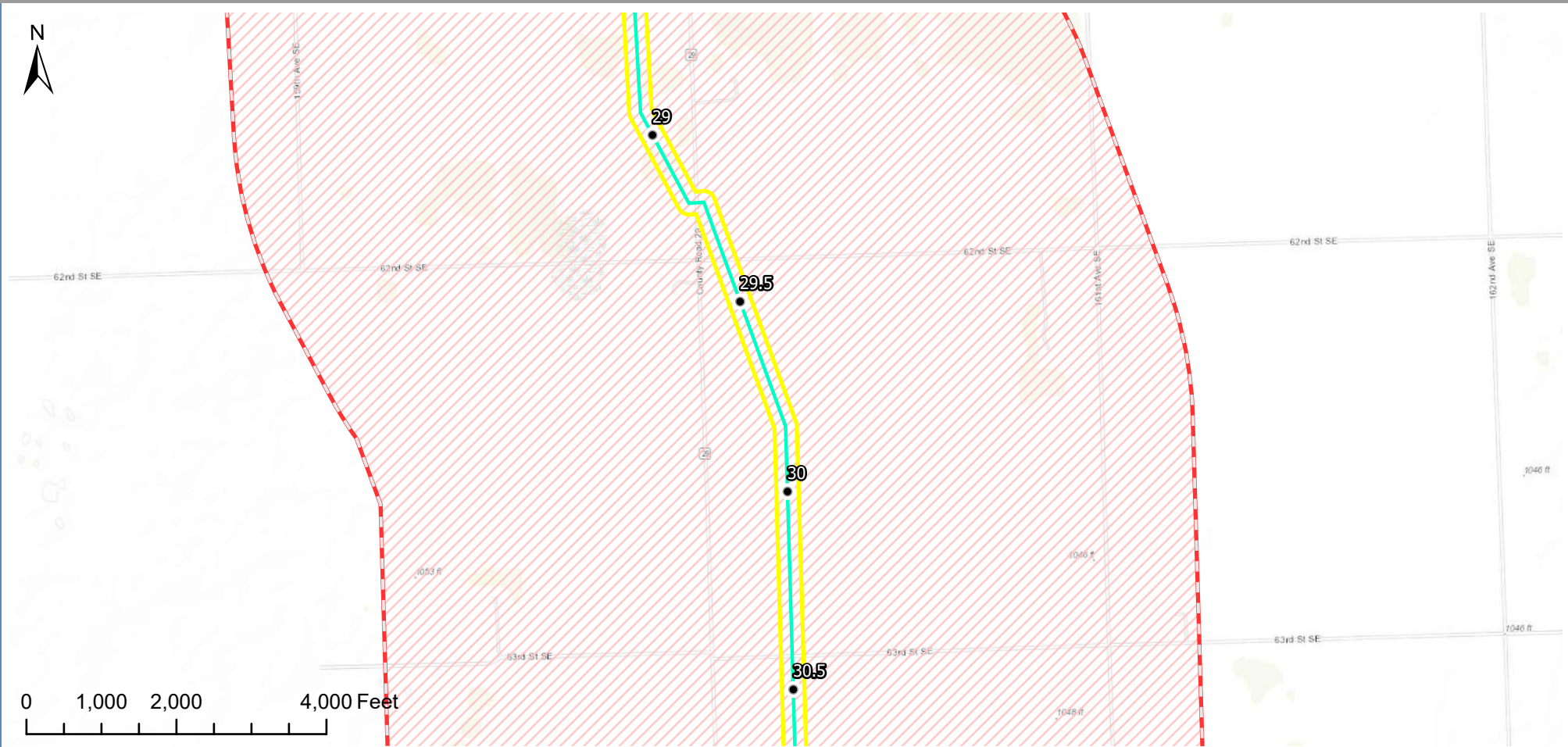


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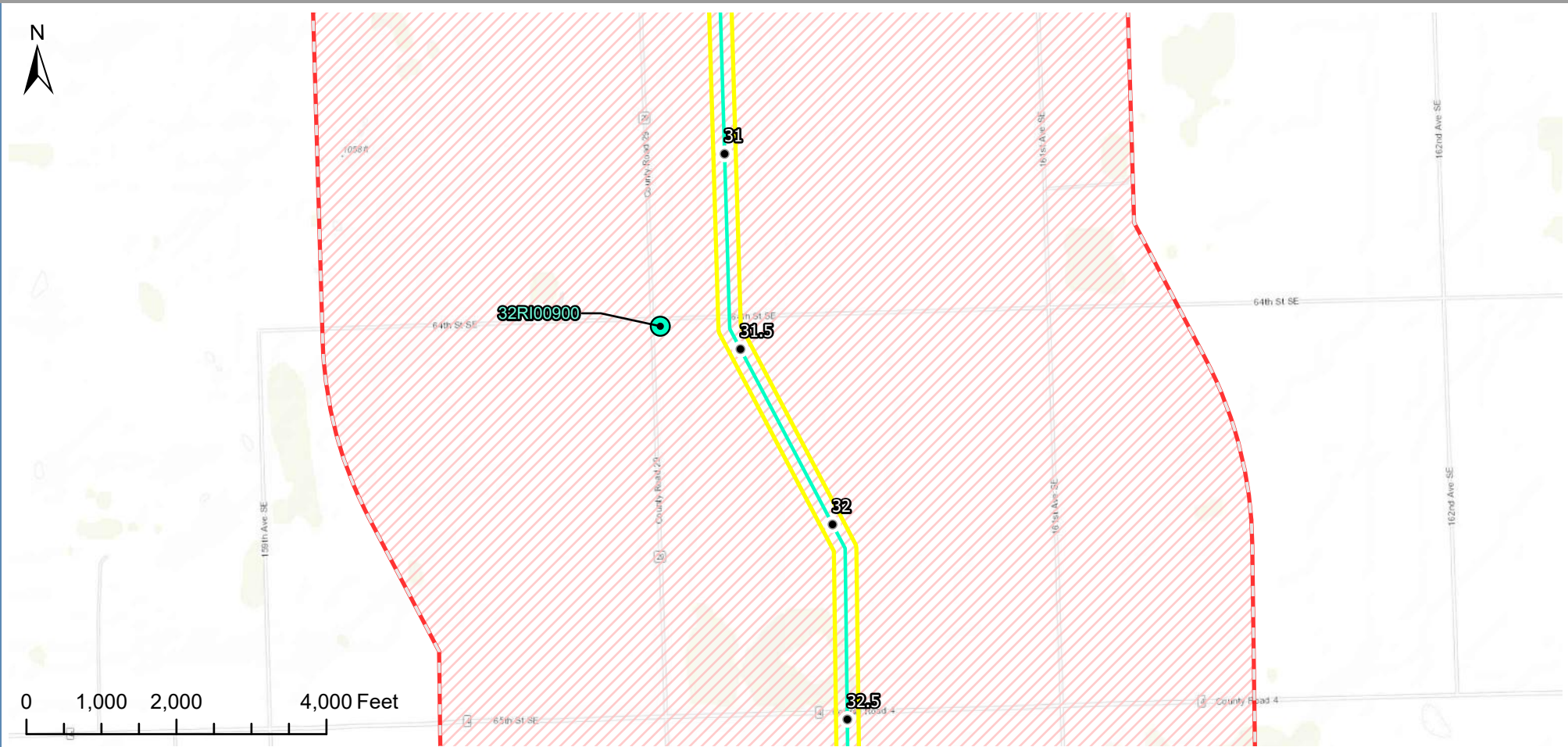
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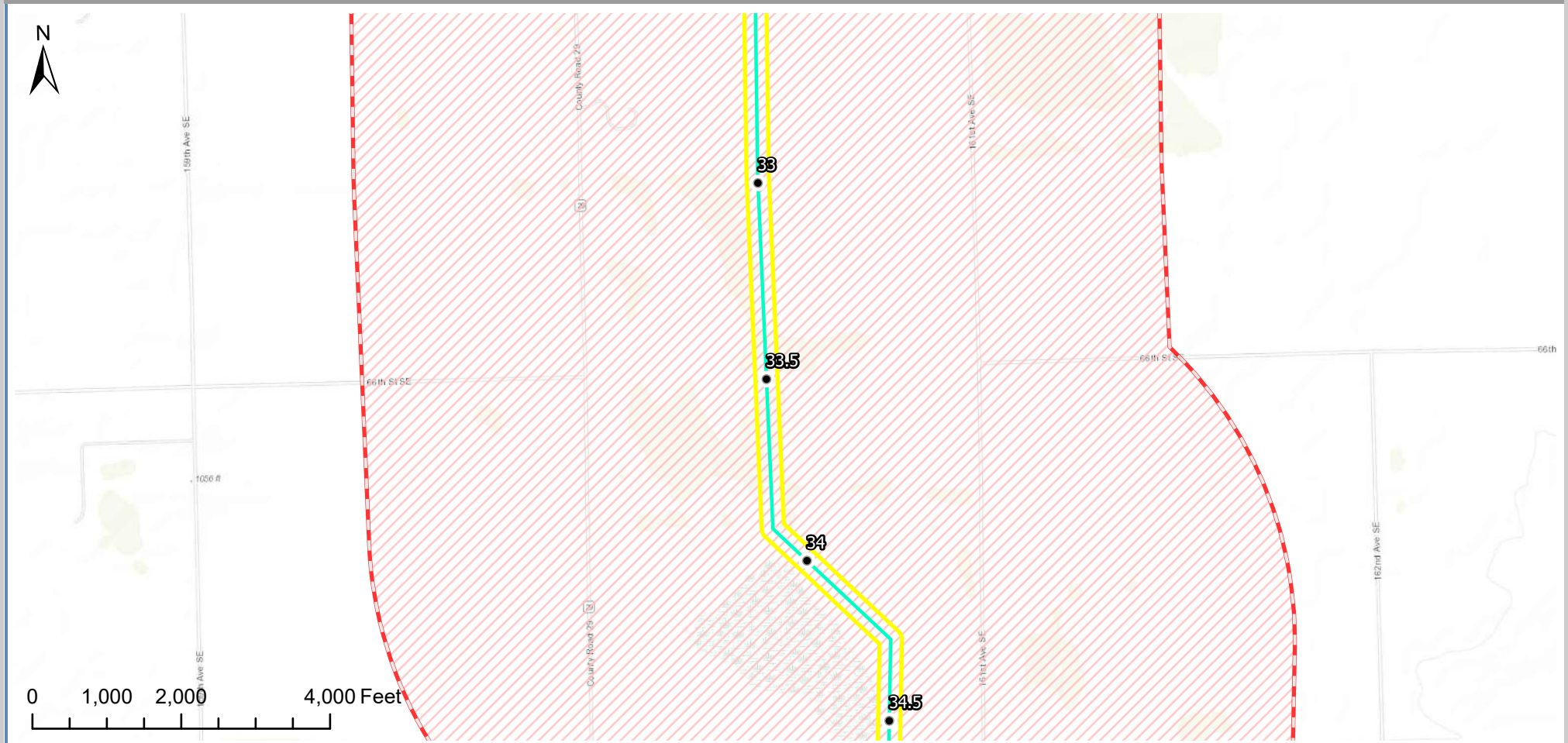
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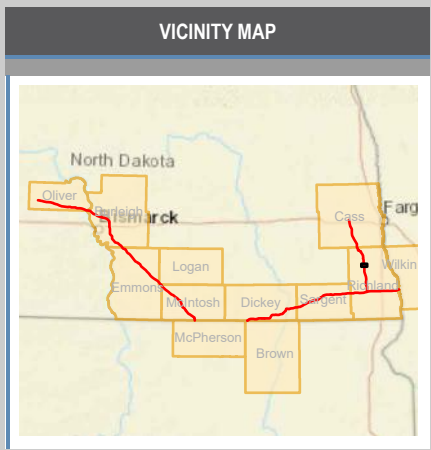
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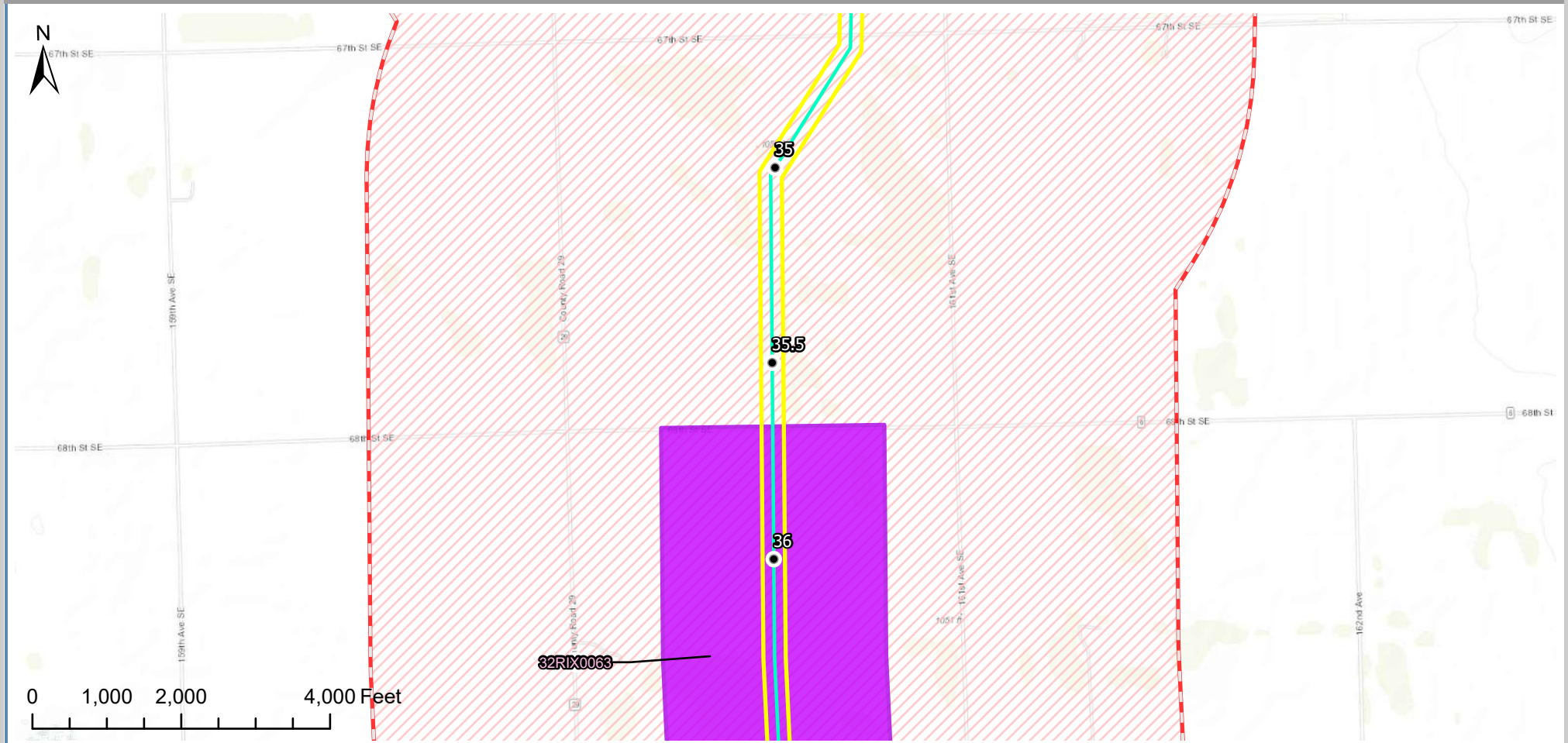
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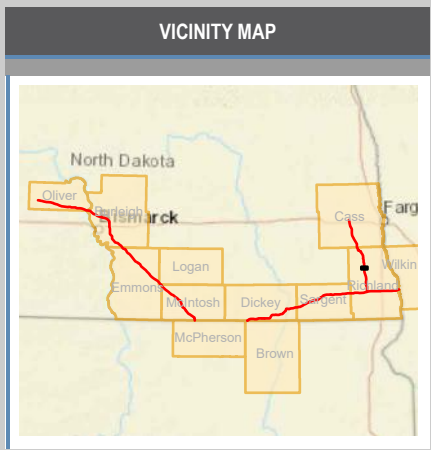
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BACKGROUND REVIEW RESULTS MAP - NORTH DAKOTA



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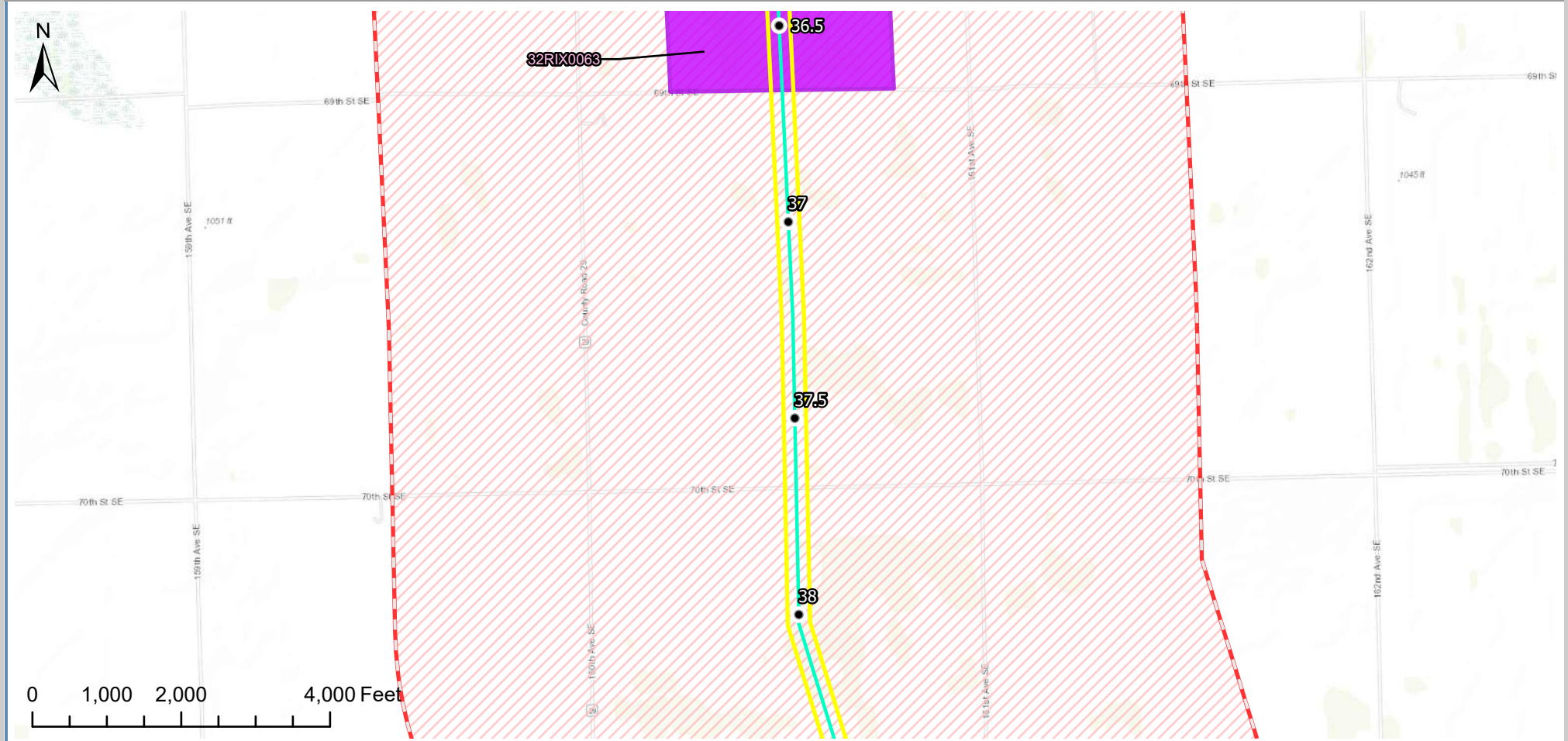
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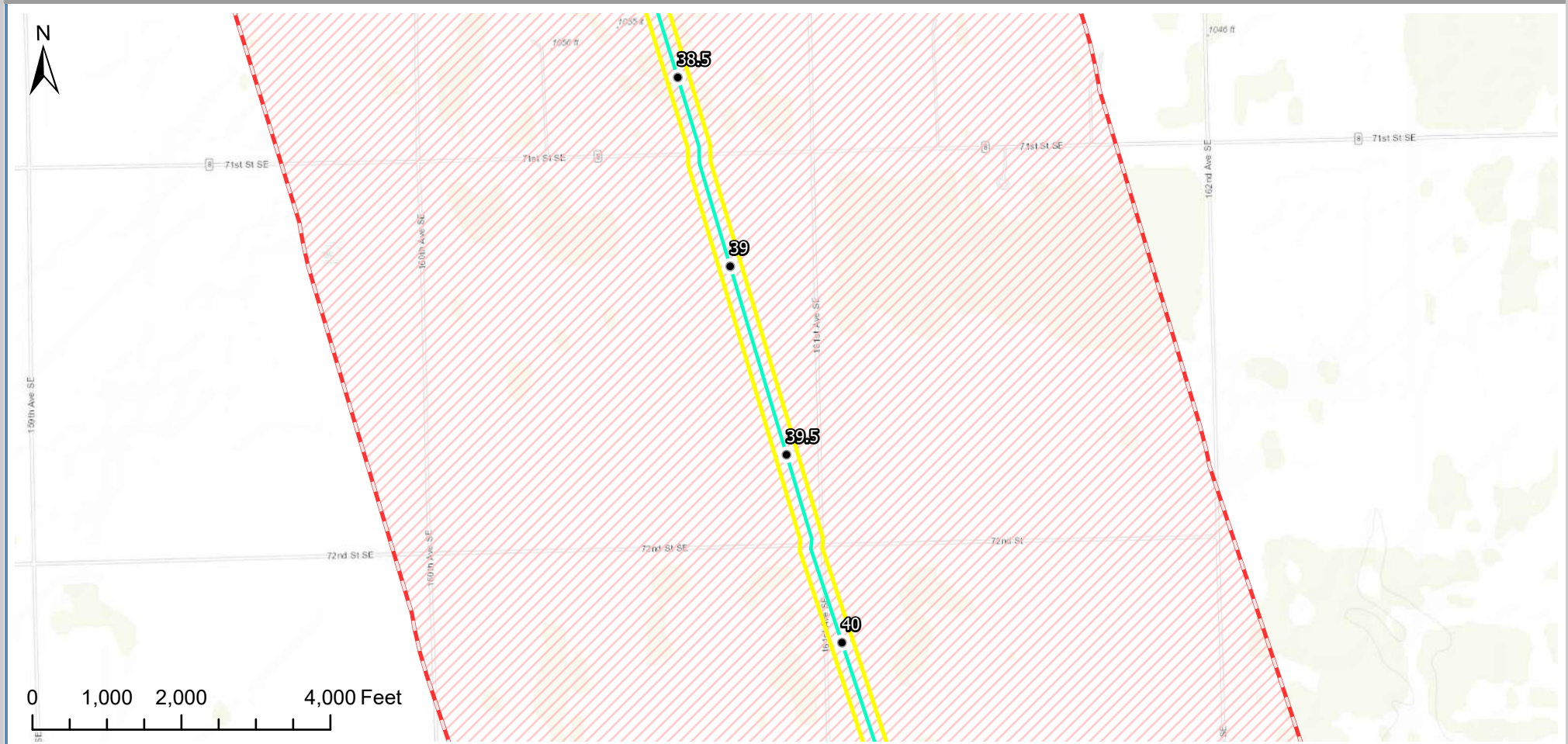
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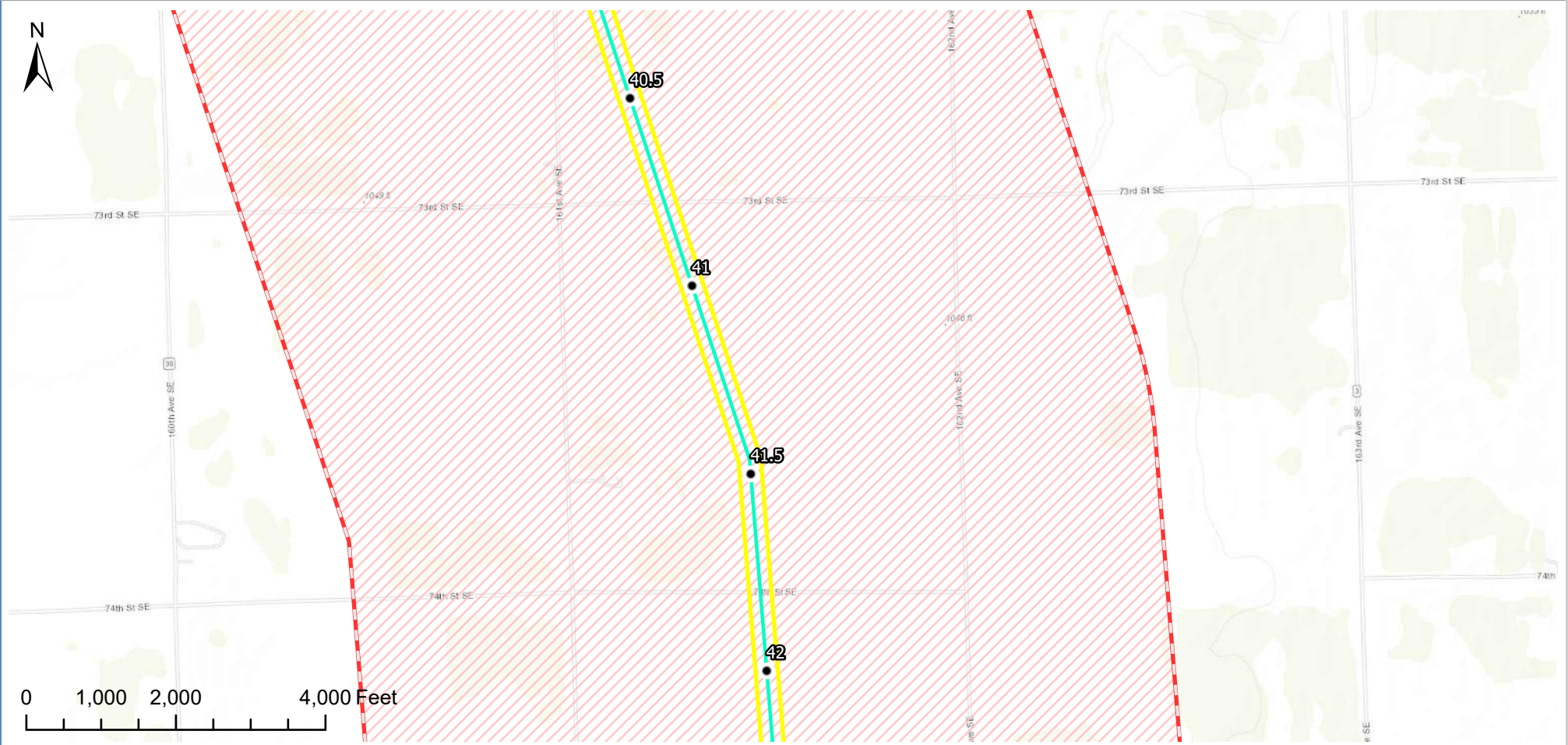
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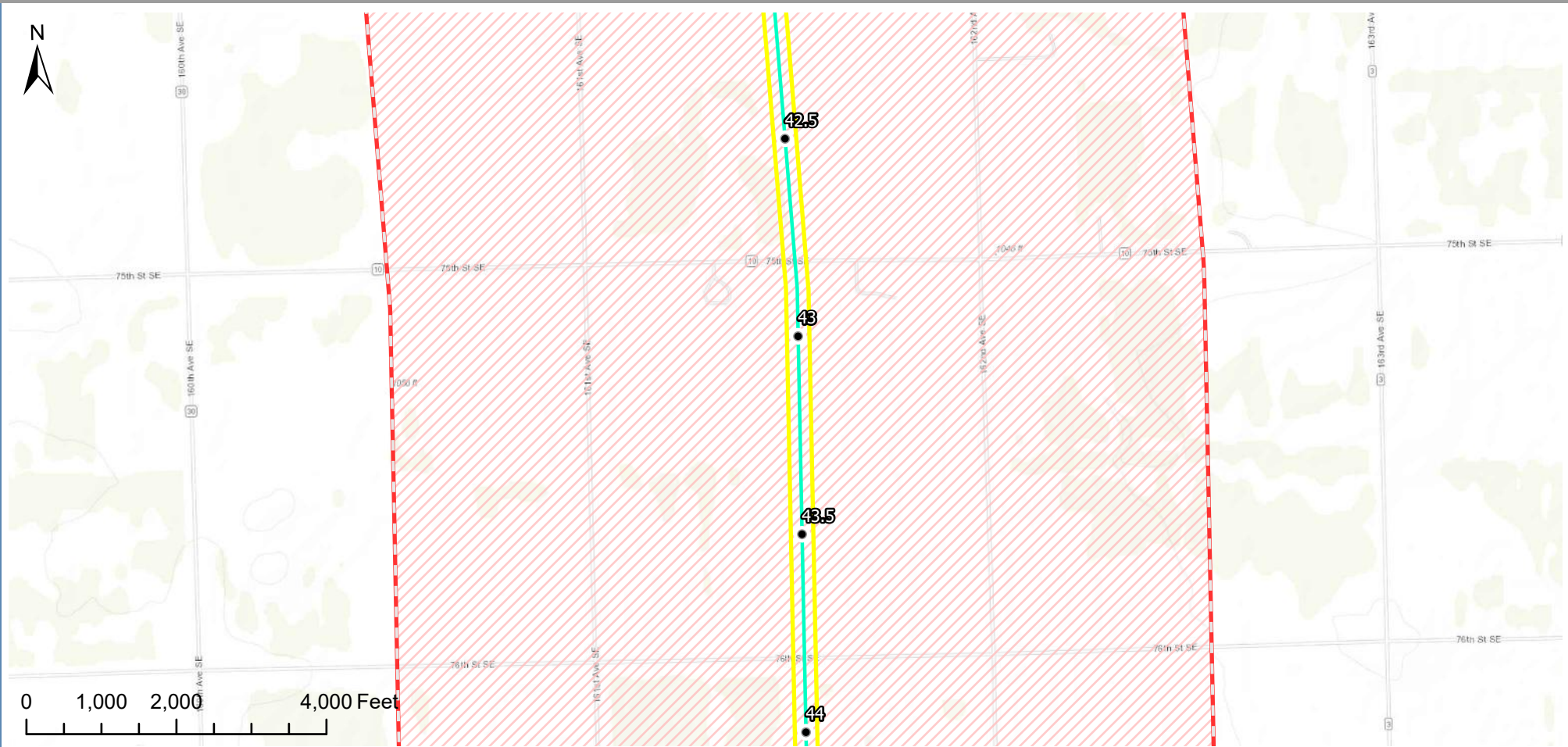
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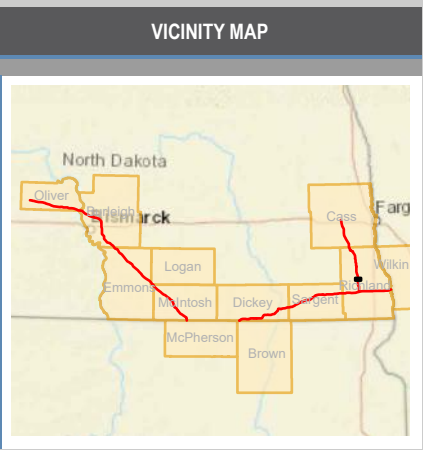
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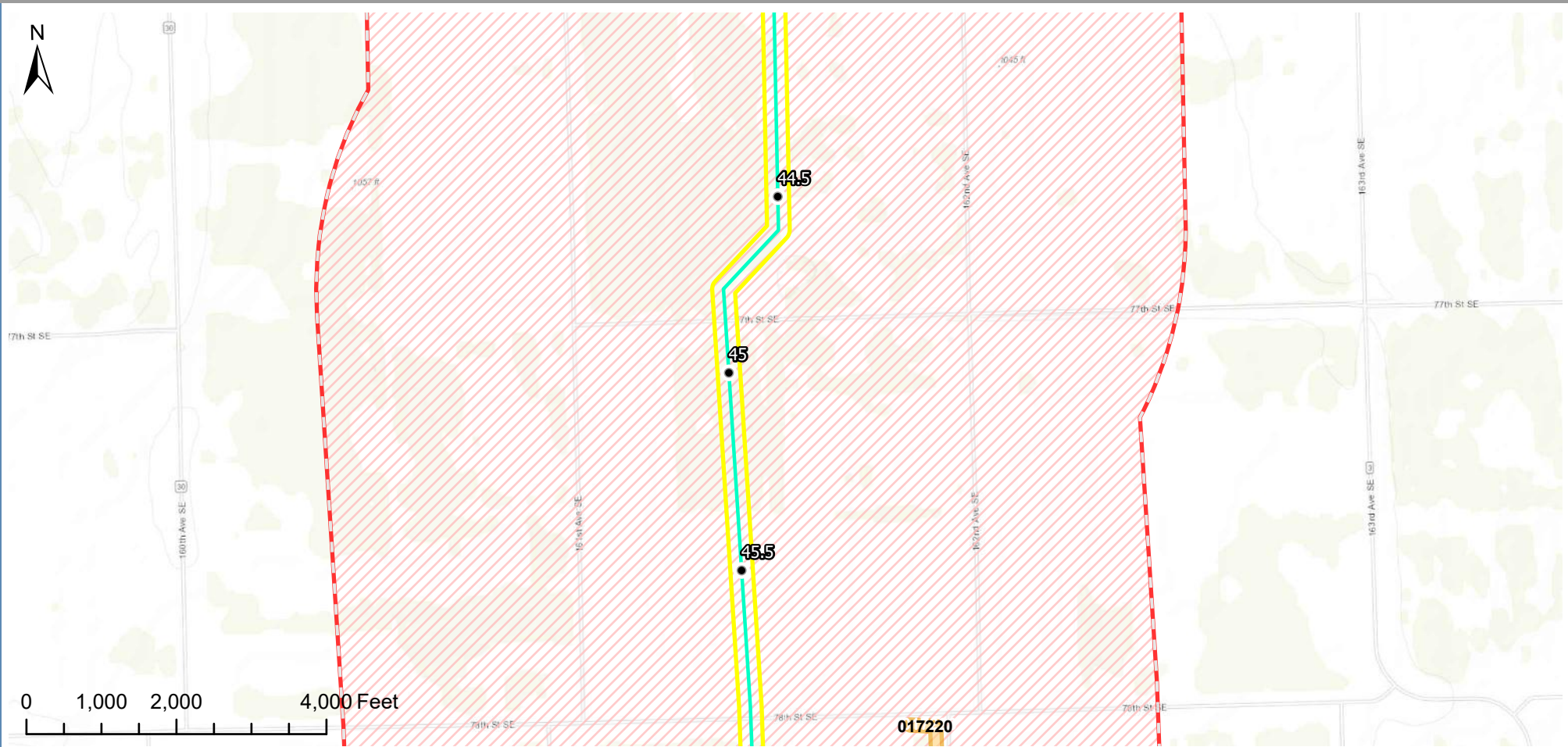


LEGEND	
● Milepost	▨ 1-Mile Buffer
● Historical Structure	■ Cultural Heritage Resource
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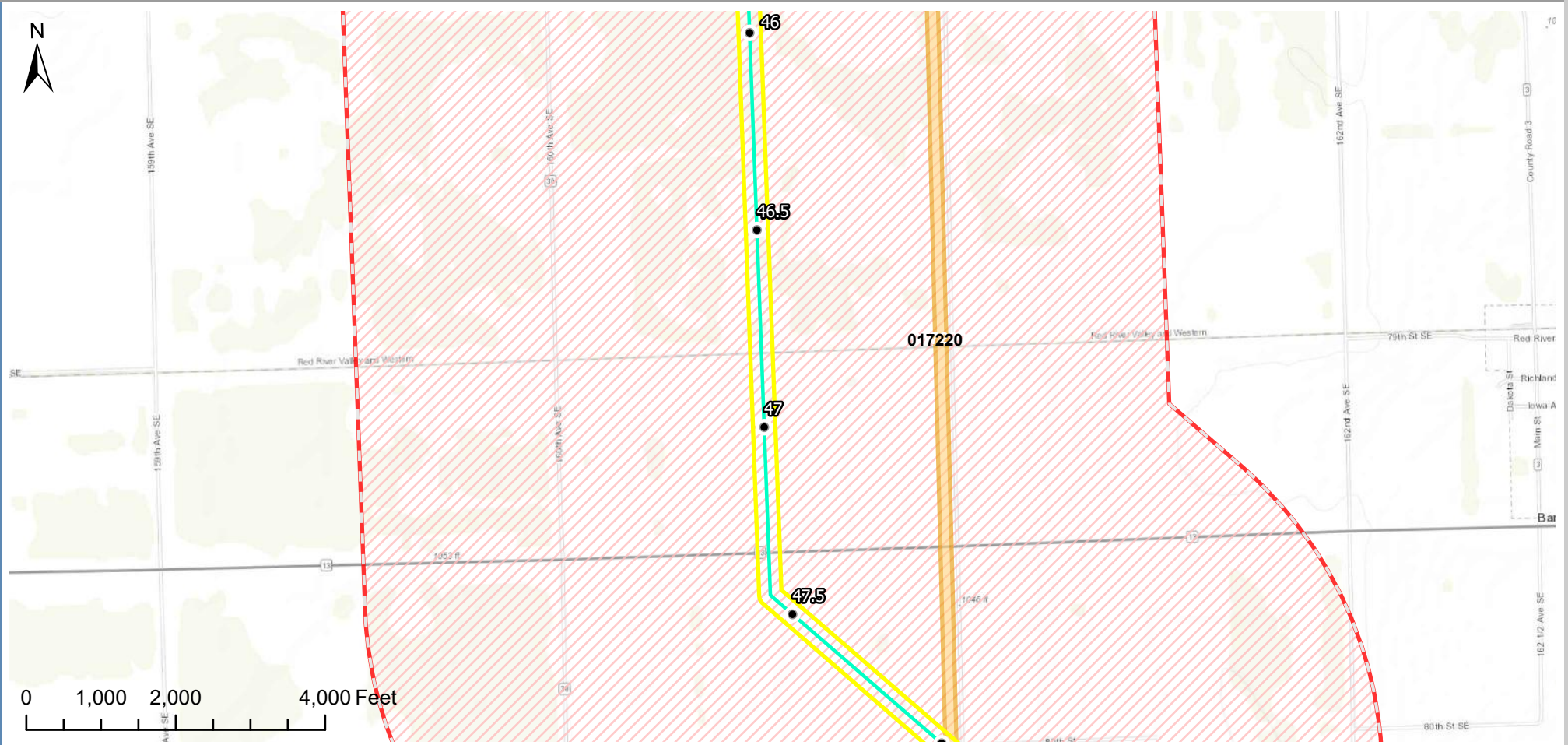
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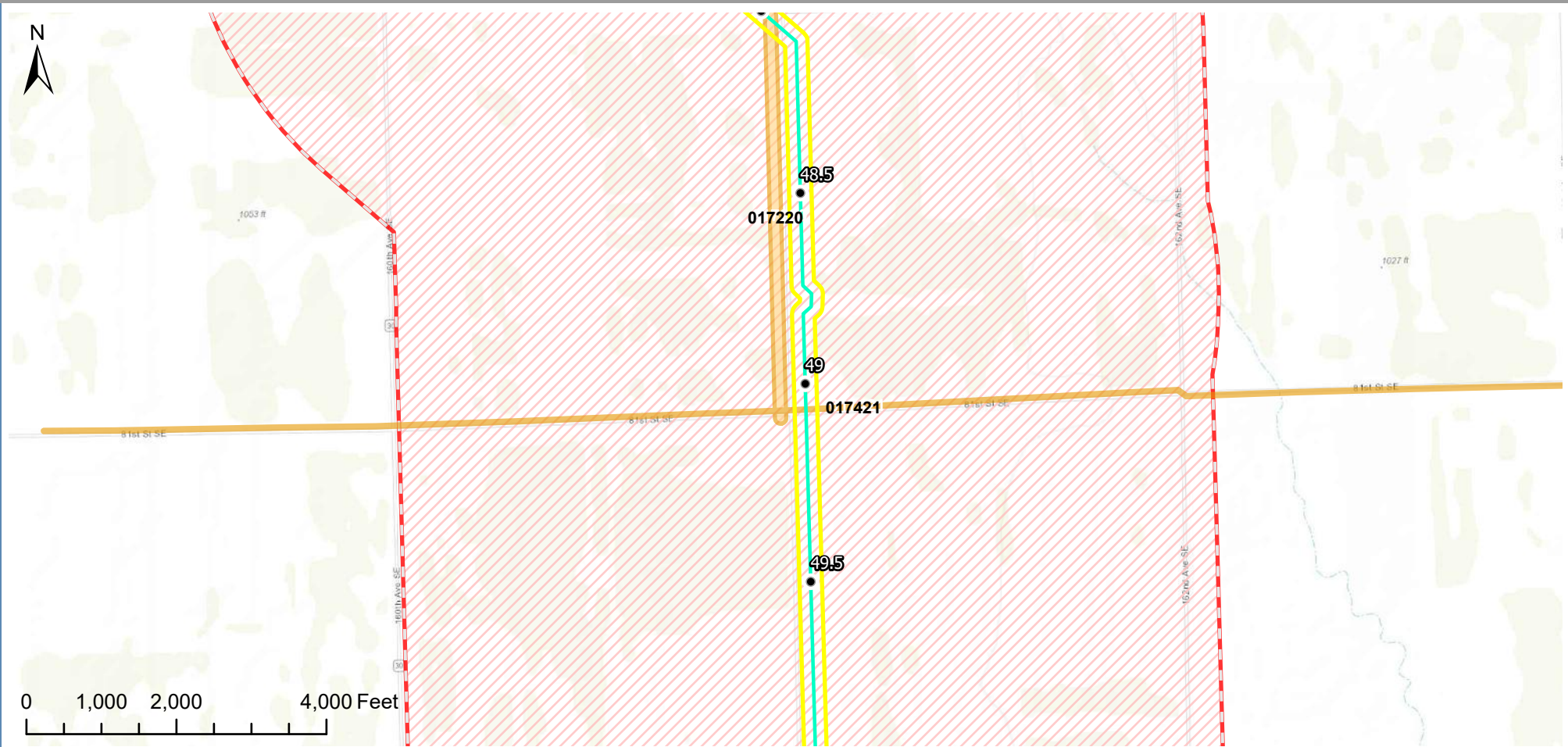
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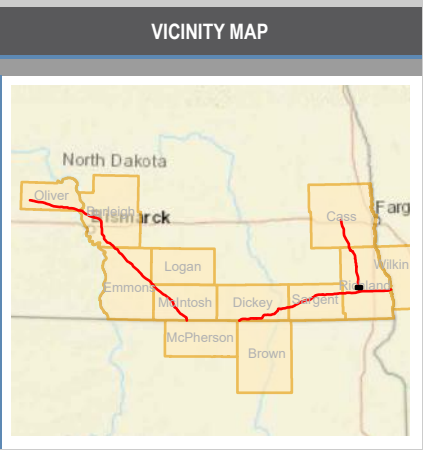
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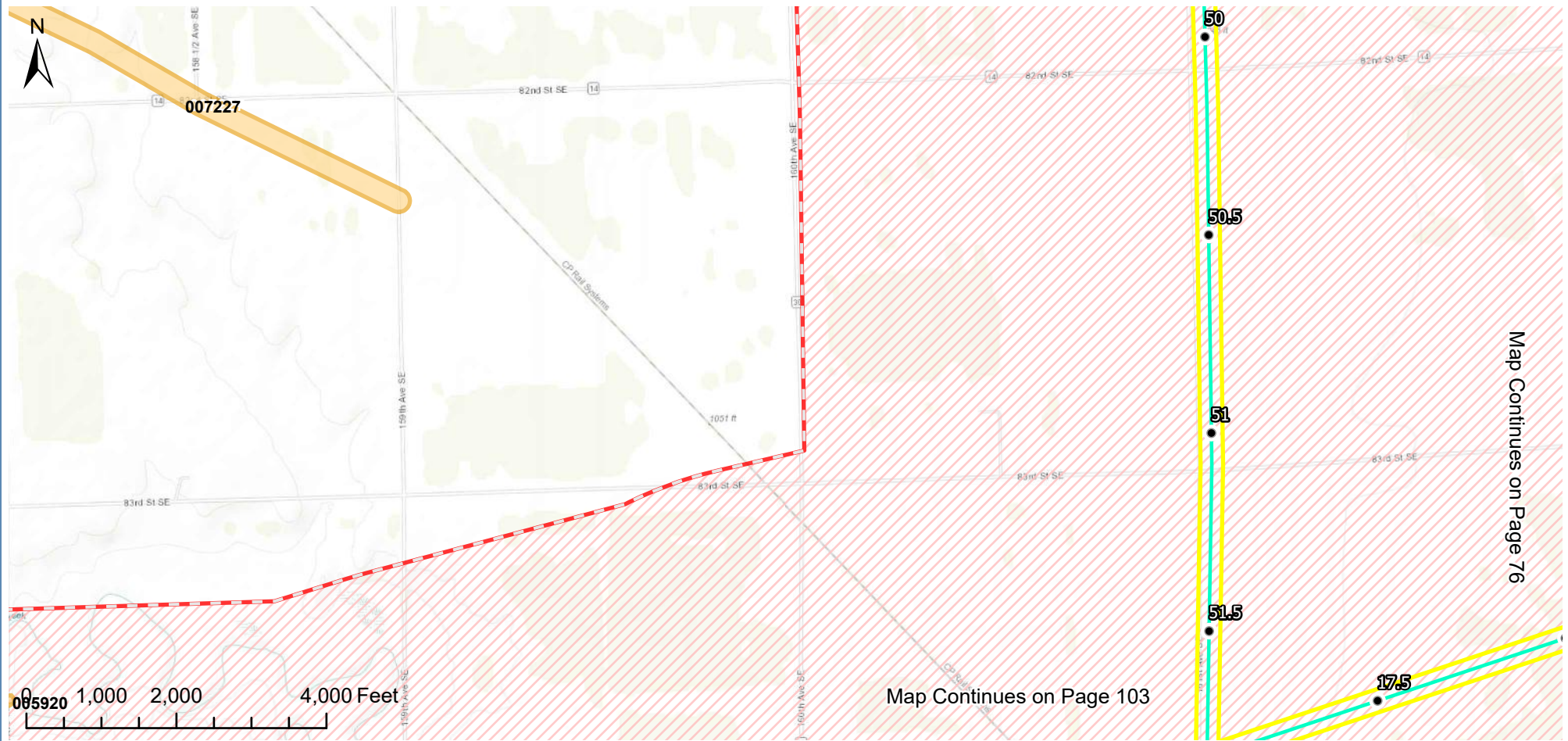
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Sheet: 74 74 of 103	Drawing Number: 2002-01-001 Revision 0

BACKGROUND REVIEW RESULTS MAP - NORTH DAKOTA



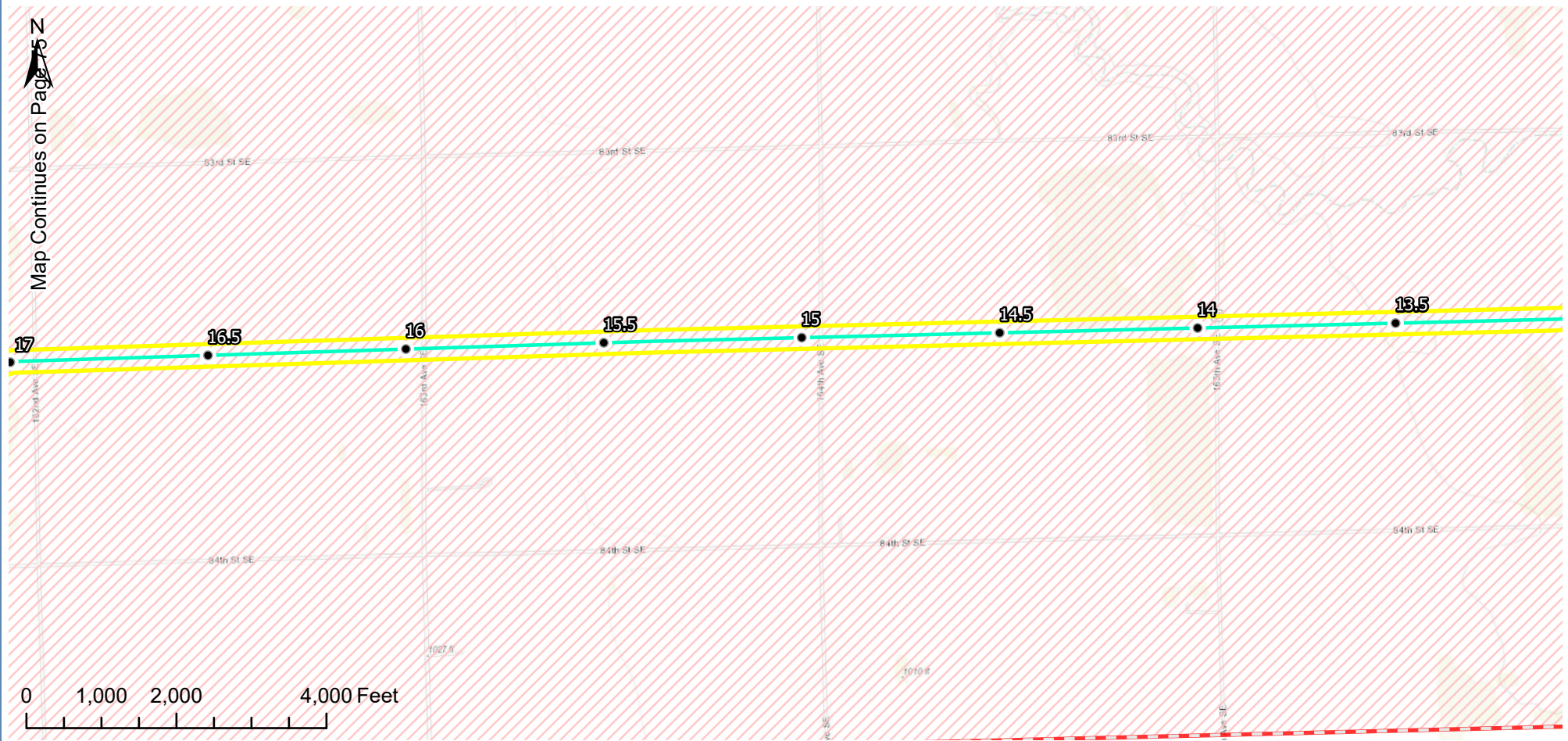
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VICINITY MAP	LEGEND	PREPARED BY	MIDWEST CARBON EXPRESS PROJECT
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BACKGROUND REVIEW RESULTS MAP - NORTH DAKOTA

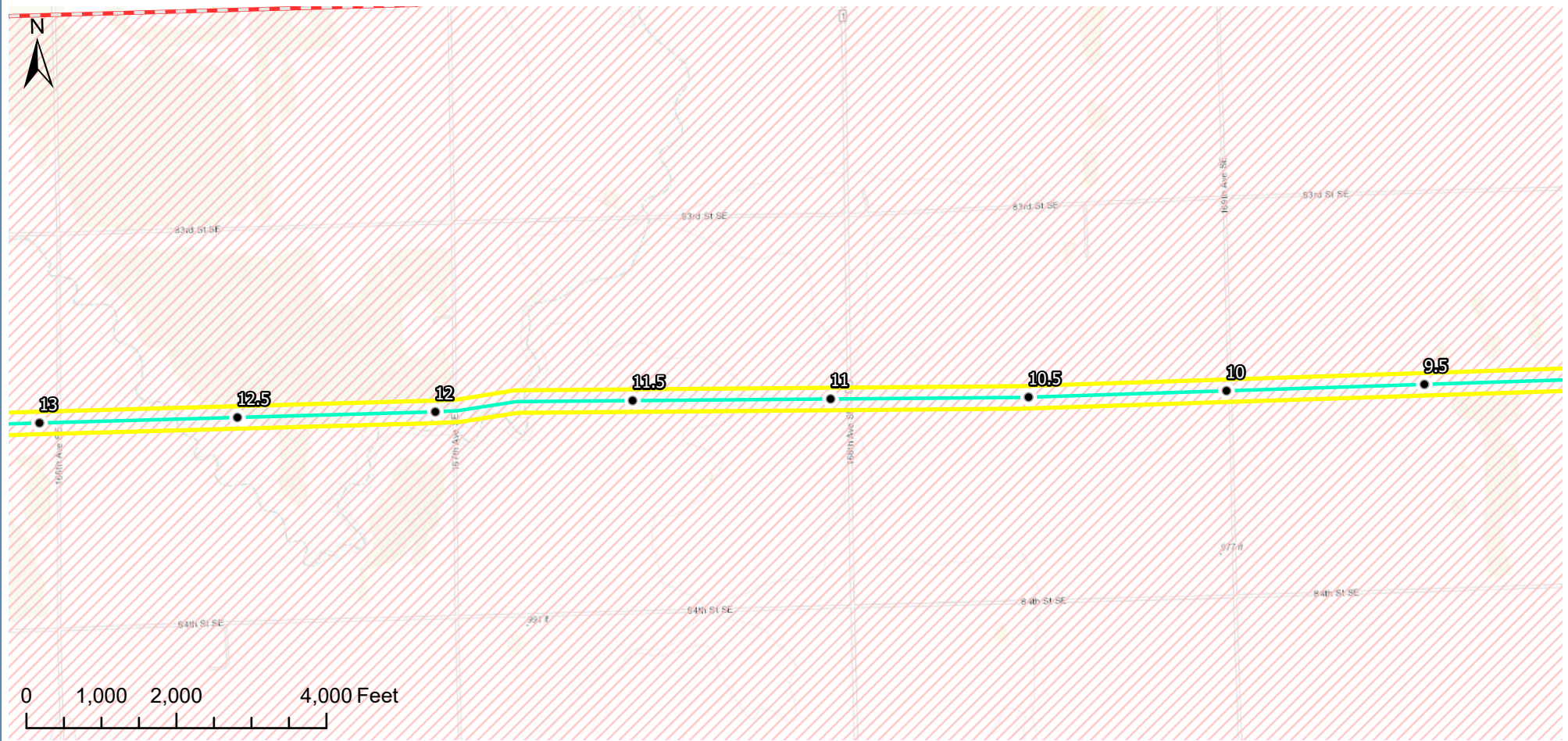
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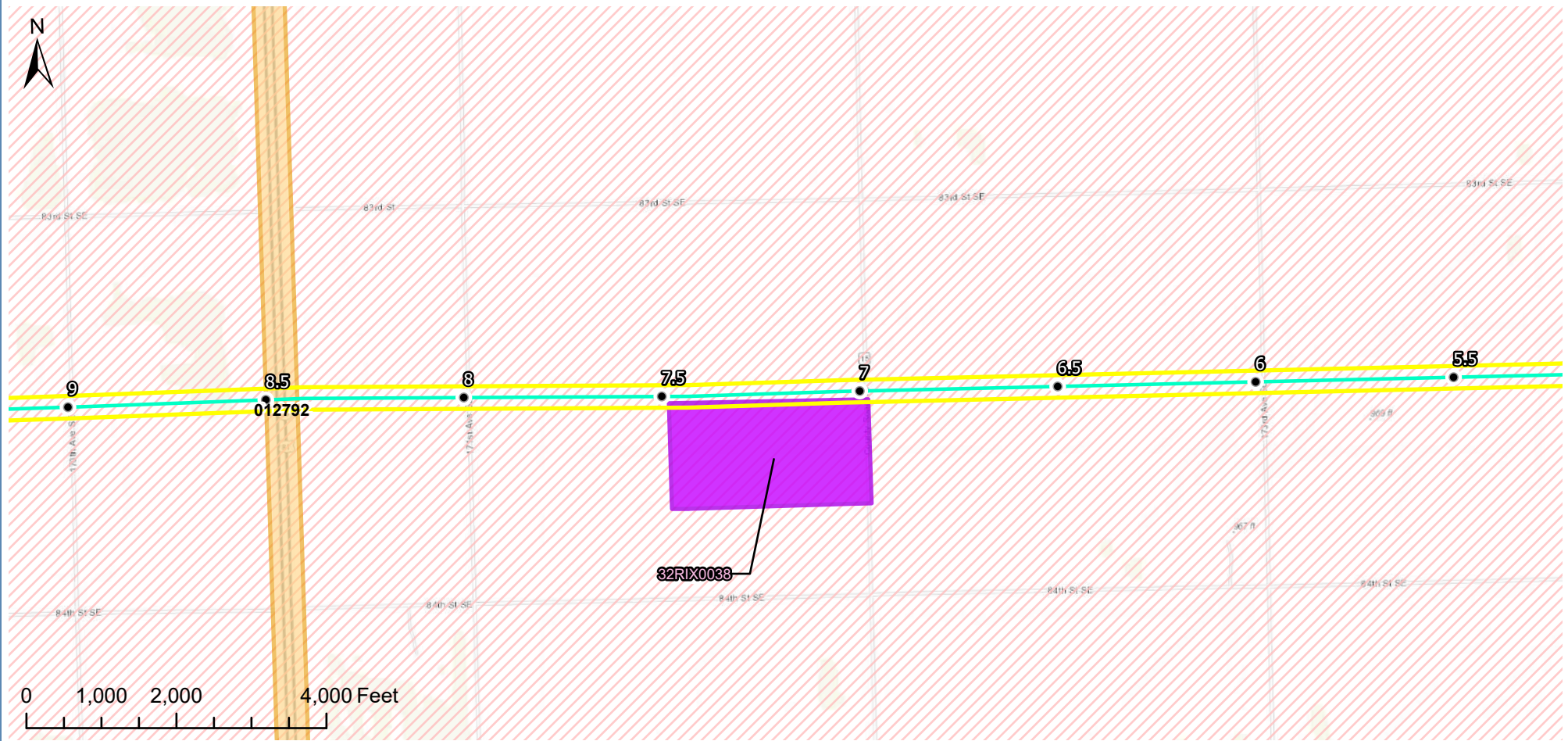
BACKGROUND REVIEW RESULTS MAP - NORTH DAKOTA




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<h3>VICINITY MAP</h3>	<h3>LEGEND</h3>	<h3>PREPARED BY</h3>	<h3>MIDWEST CARBON EXPRESS PROJECT</h3>																
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BACKGROUND REVIEW RESULTS MAP - NORTH DAKOTA



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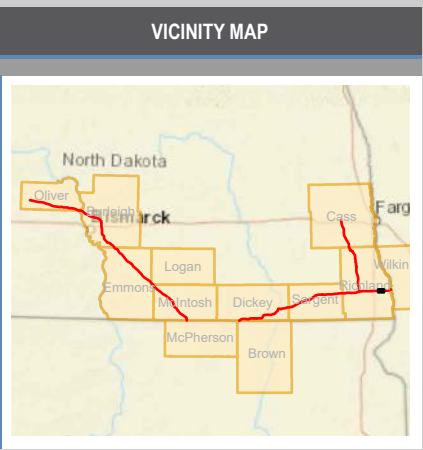
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BACKGROUND REVIEW RESULTS MAP - NORTH DAKOTA



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LEGEND	
● Milepost	▨ 1-Mile Buffer
● Historical Structure	■ Cultural Heritage Resource
● Previously Recorded Site	■ Previously Recorded Site
— Main Line	▨ Previous Survey
— Lateral Line	■ Sequestration Site Evaluation Area (Site TBD)
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1 : 24,000 1 inch equals 2,000 feet	Transverse Mercator NAD 1983 BLM Zone 14N ftUS
Sheet:	Drawing Number:
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BACKGROUND REVIEW RESULTS MAP - NORTH DAKOTA



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VICINITY MAP	LEGEND	PREPARED BY	MIDWEST CARBON EXPRESS PROJECT
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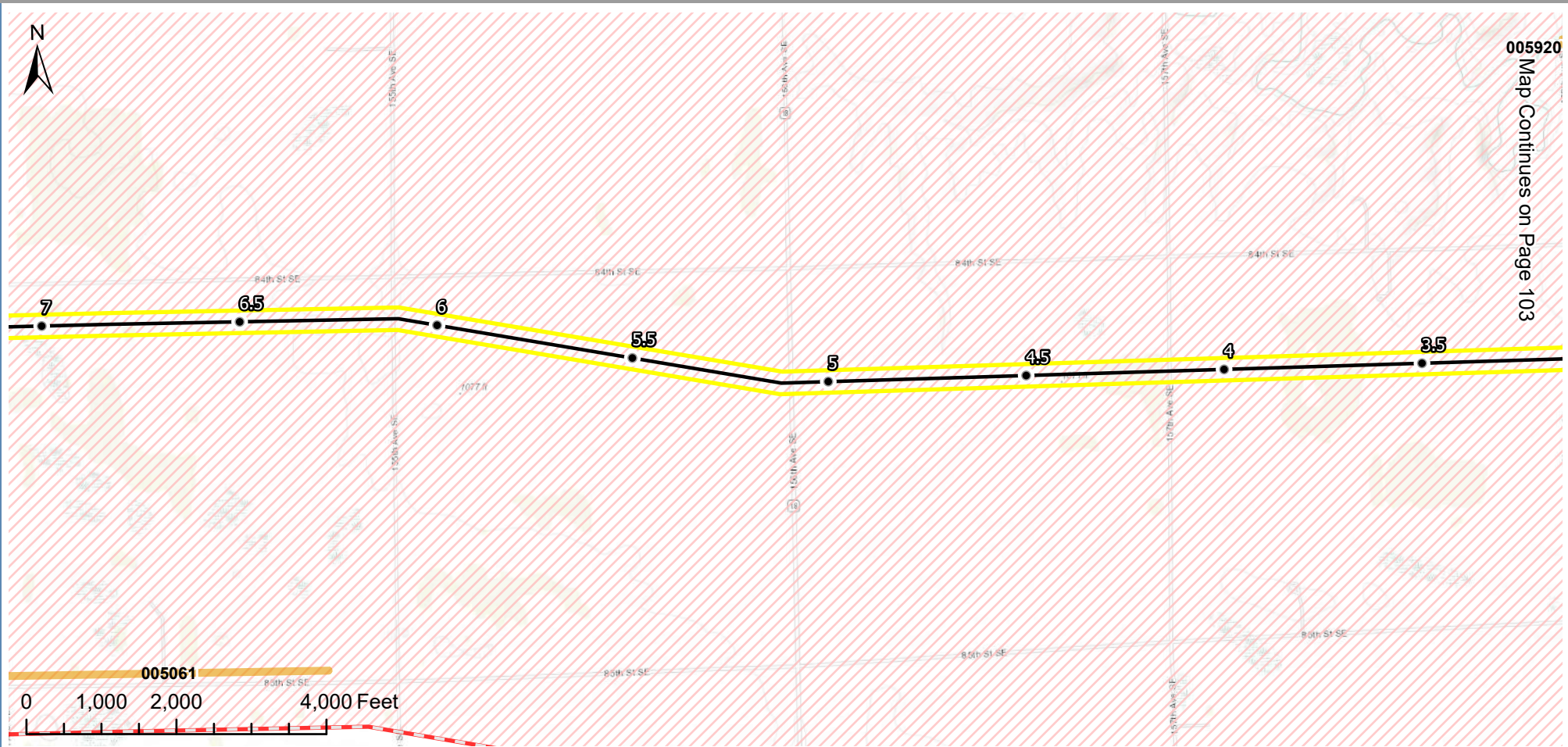
BACKGROUND REVIEW RESULTS MAP - NORTH DAKOTA



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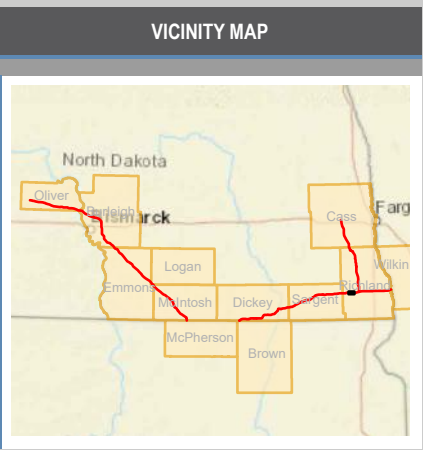
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BACKGROUND REVIEW RESULTS MAP - NORTH DAKOTA



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Map Continues on Page 103

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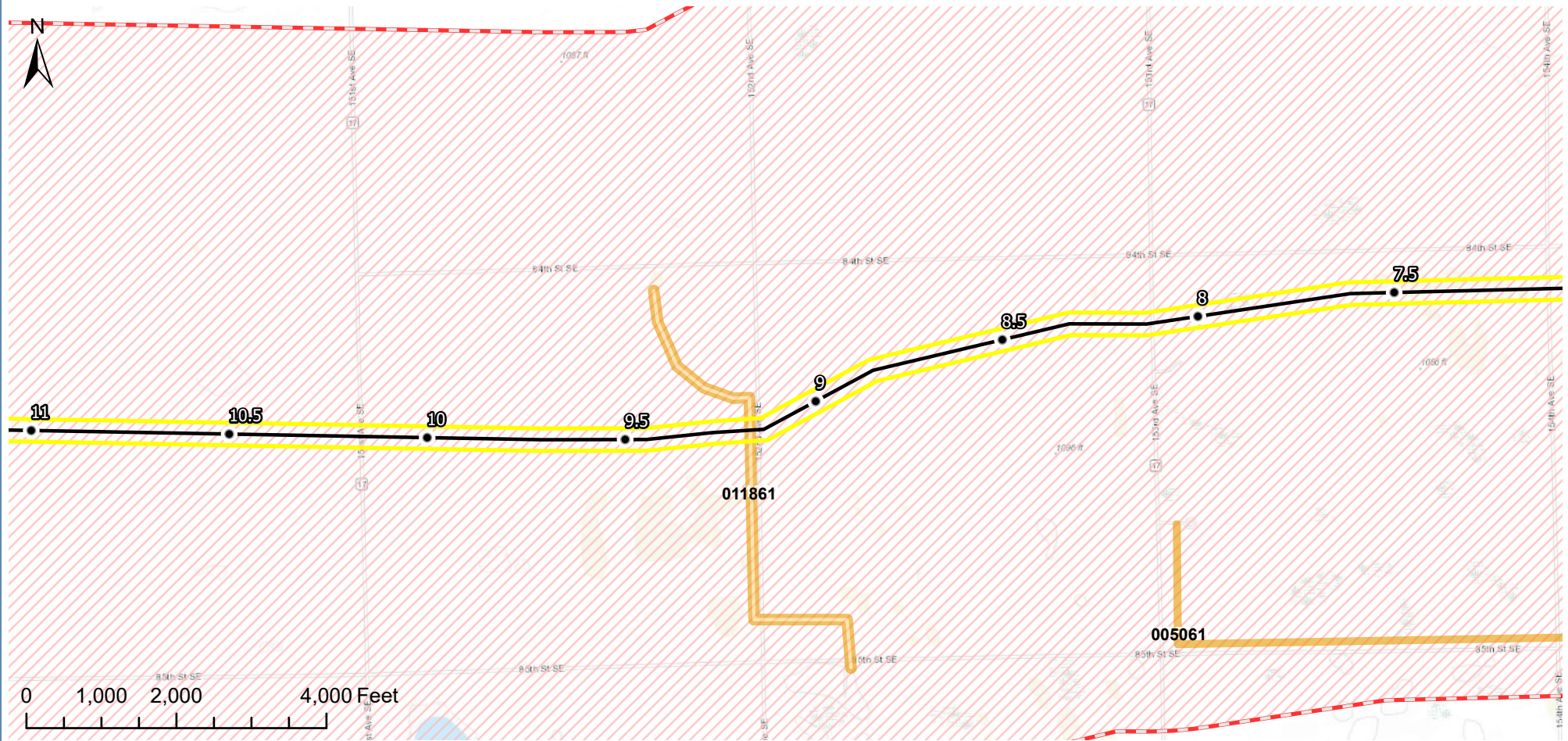
LEGEND

● Milepost	▨ 1-Mile Buffer
● Historical Structure	■ Cultural Heritage Resource
● Previously Recorded Site	■ Previously Recorded Site
— Main Line	■ Previous Survey
— Lateral Line	■ Sequestration Site Evaluation Area (Site TBD)
— Trunk Line	▭ County Boundary
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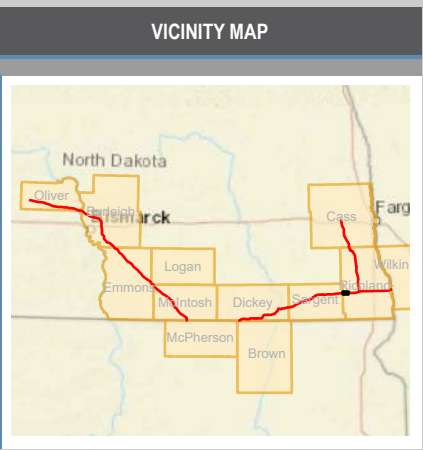
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1 : 24,000 1 inch equals 2,000 feet	Transverse Mercator NAD 1983 BLM Zone 14N ftUS
Sheet:	Drawing Number:
82 82 of 103	2002-01-001 Revision 0

BACKGROUND REVIEW RESULTS MAP - NORTH DAKOTA



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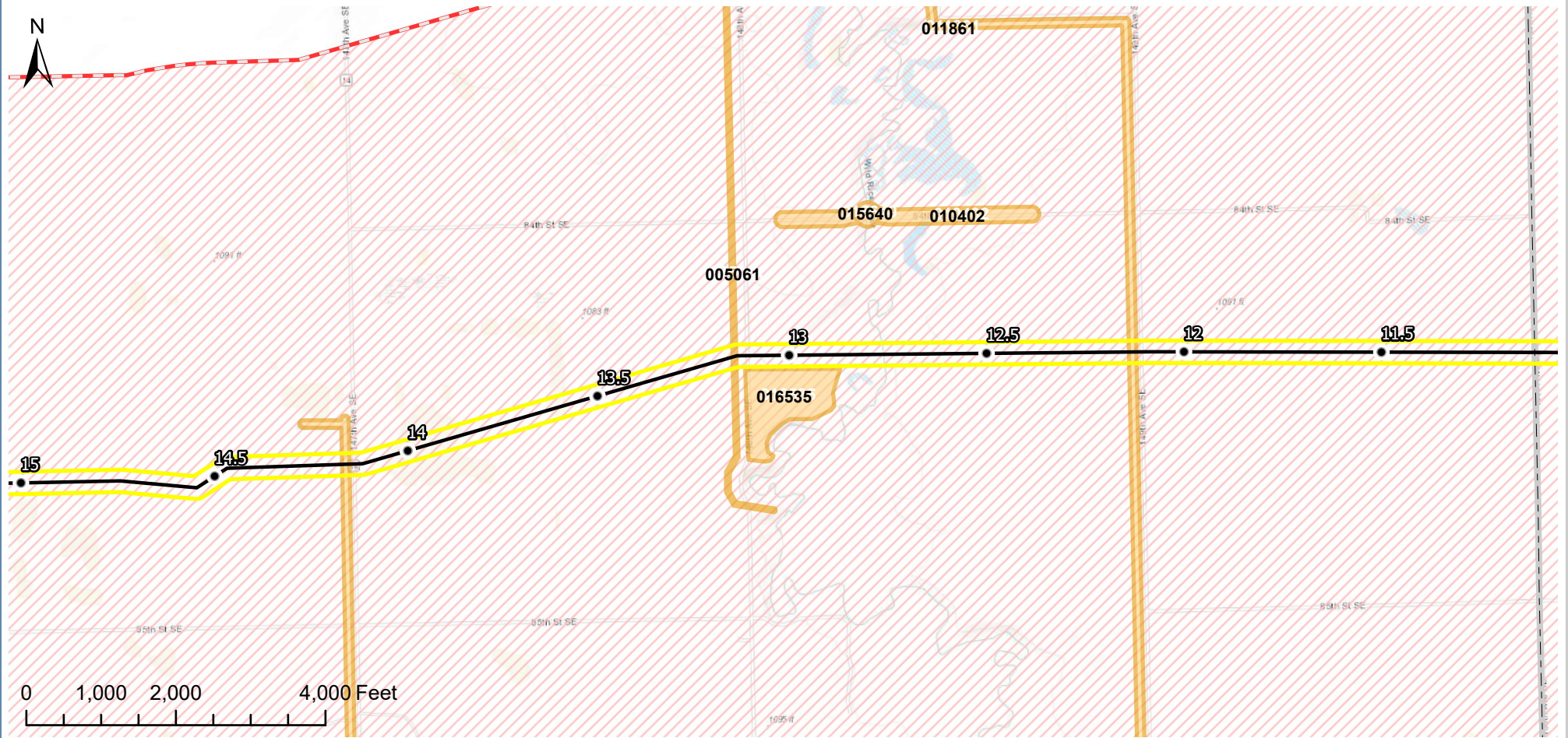
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83 of 103	Revision 0

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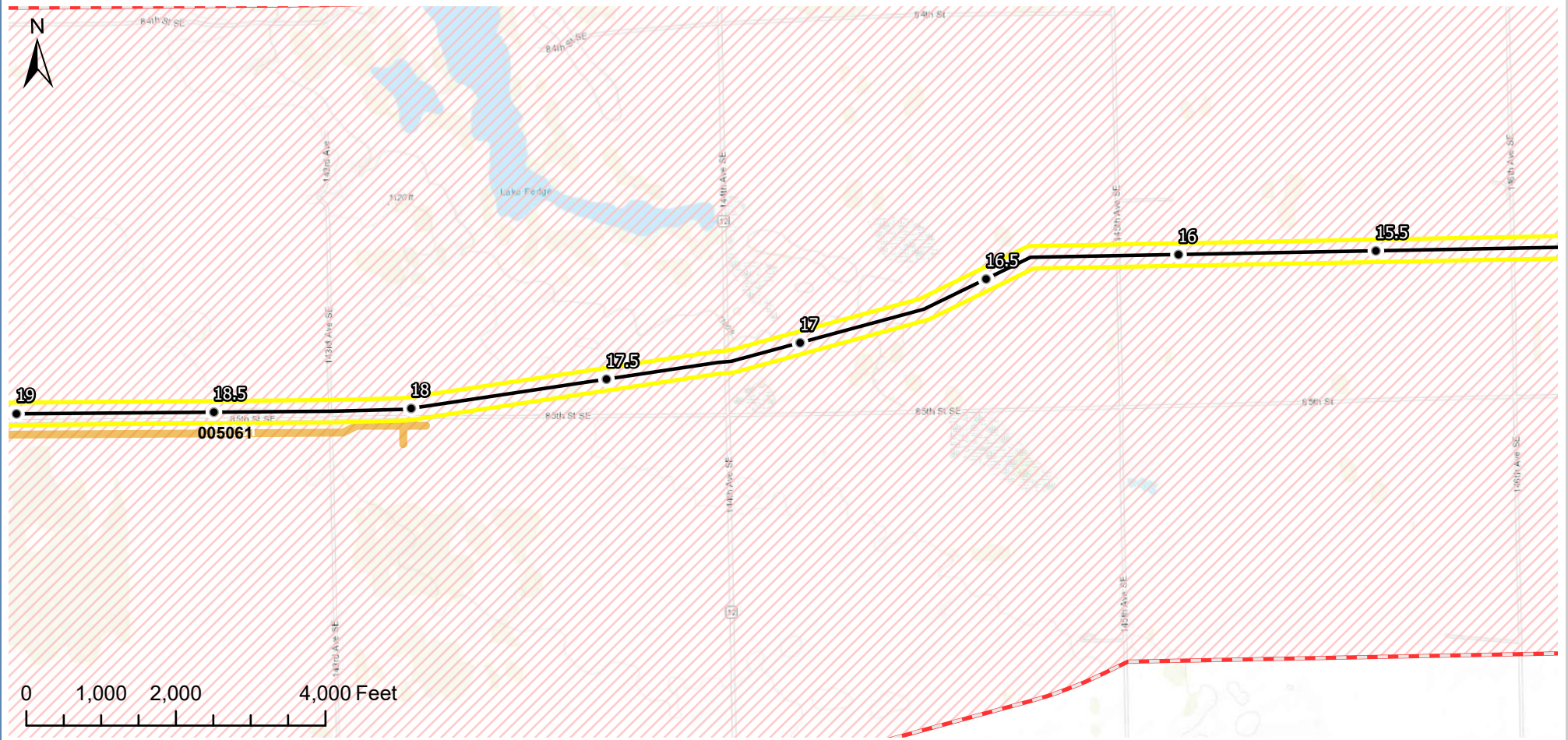
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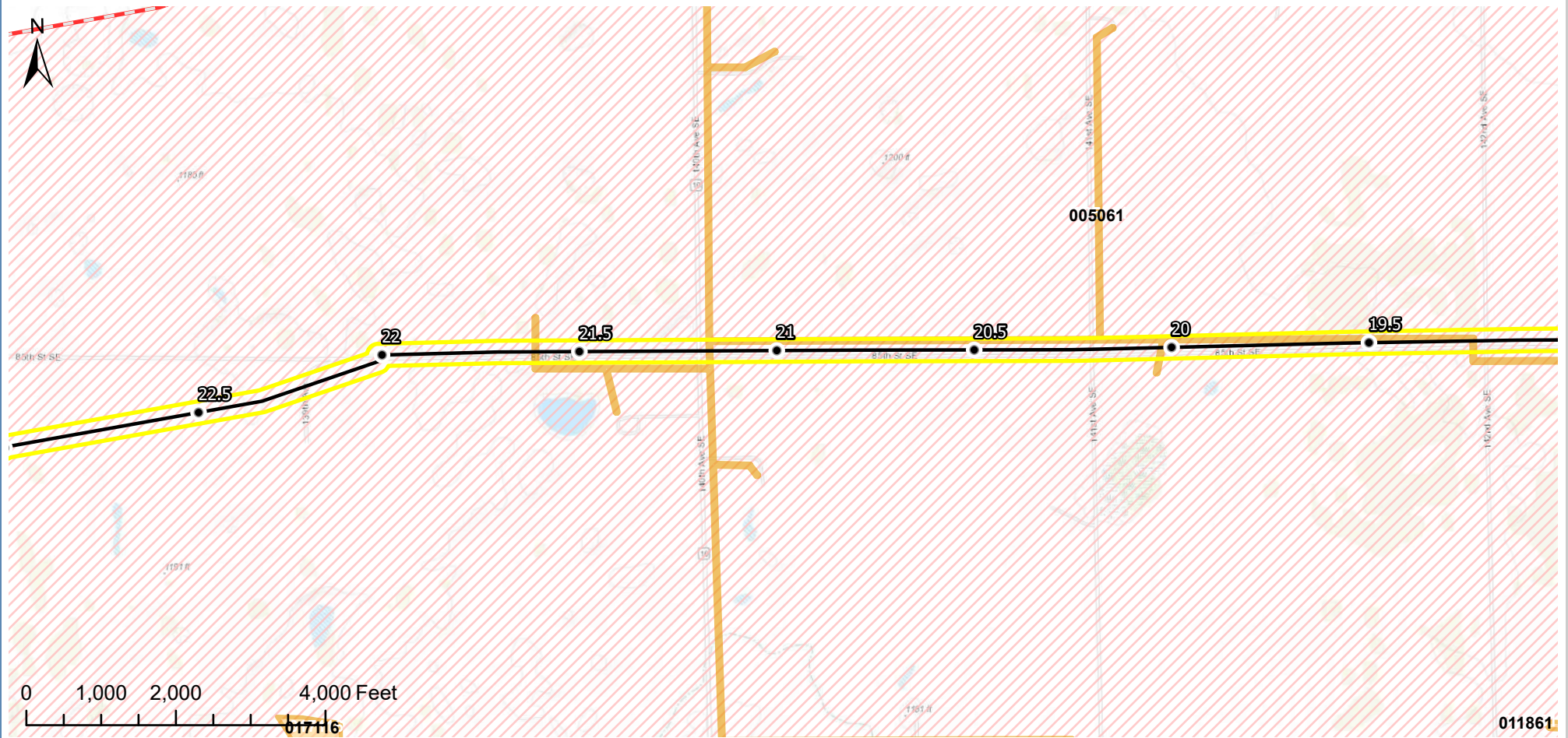
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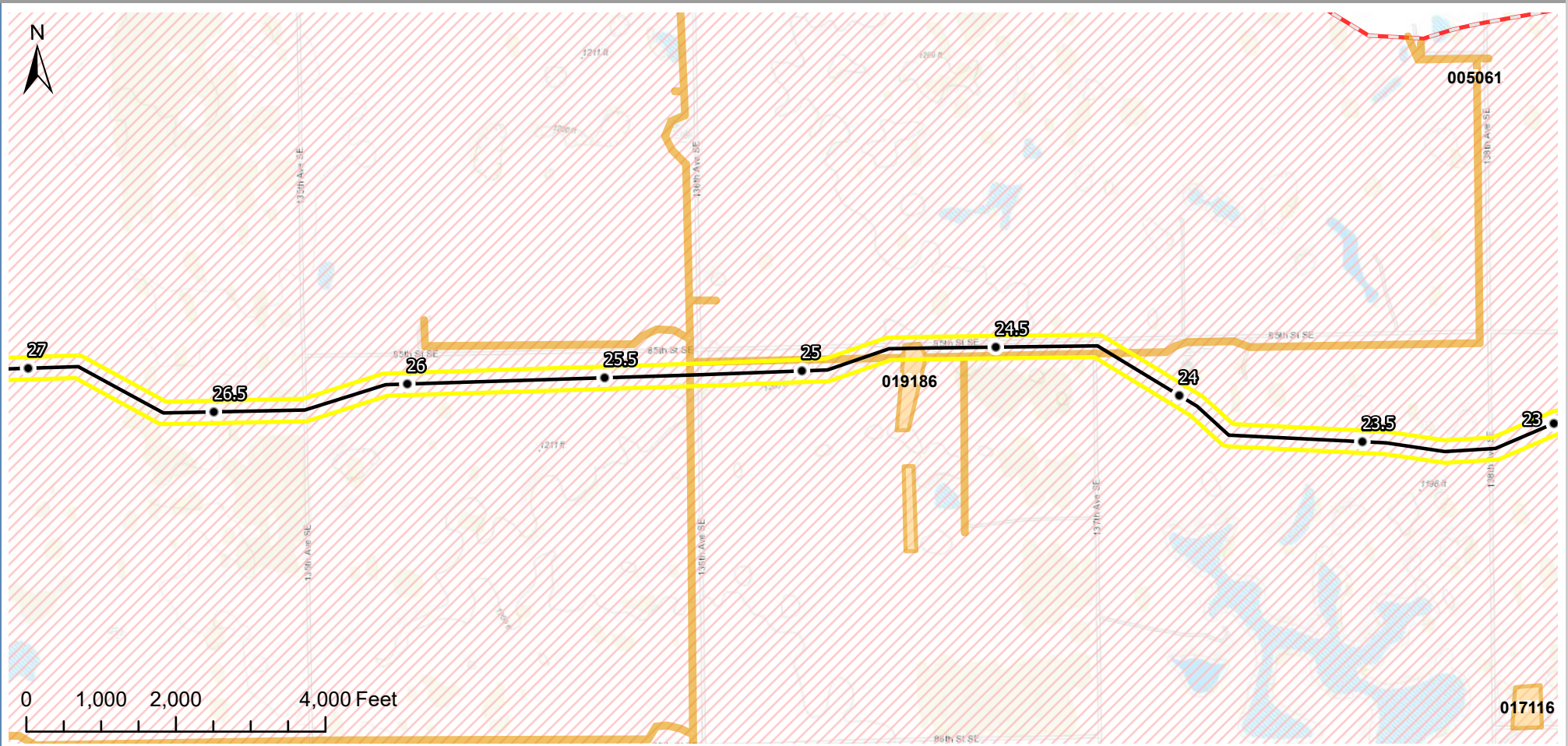
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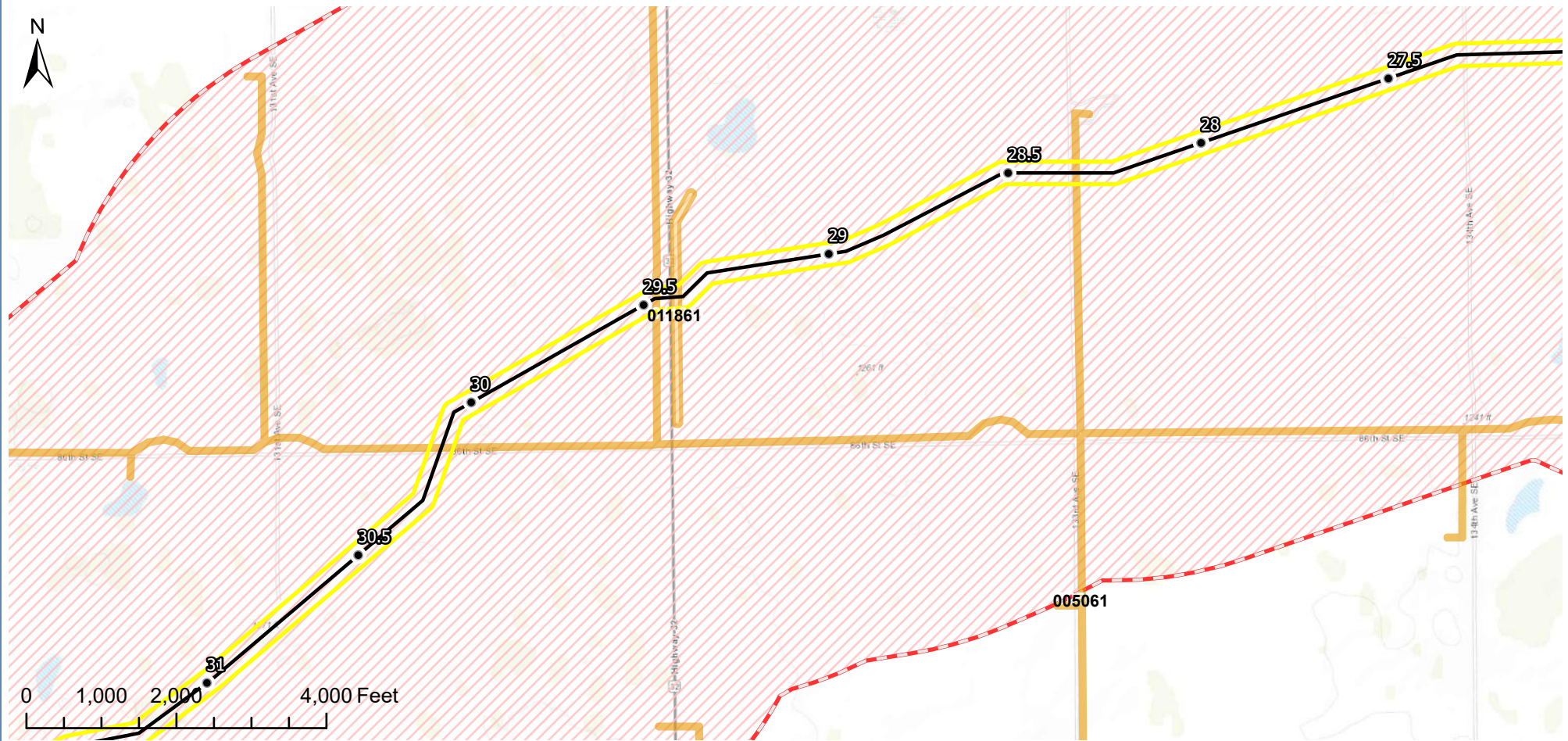
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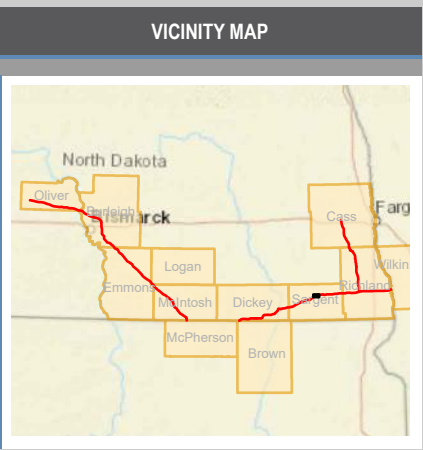
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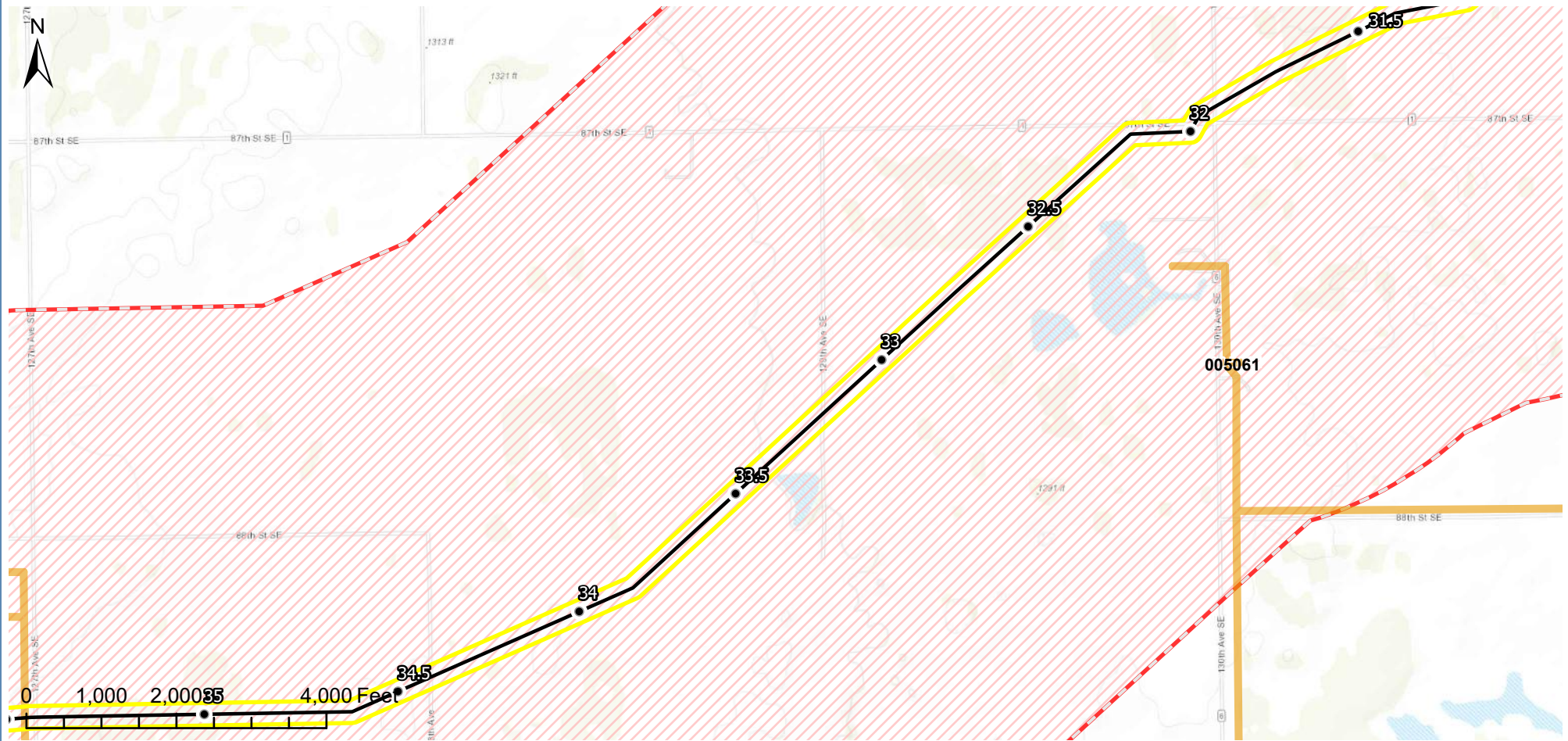


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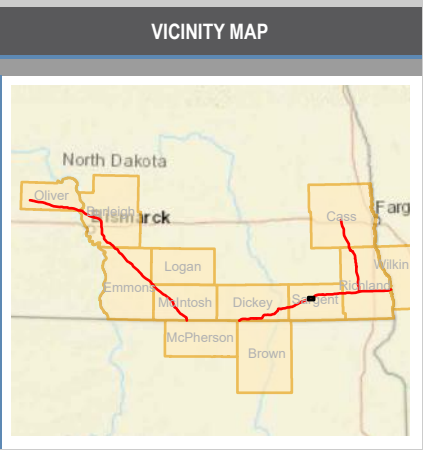
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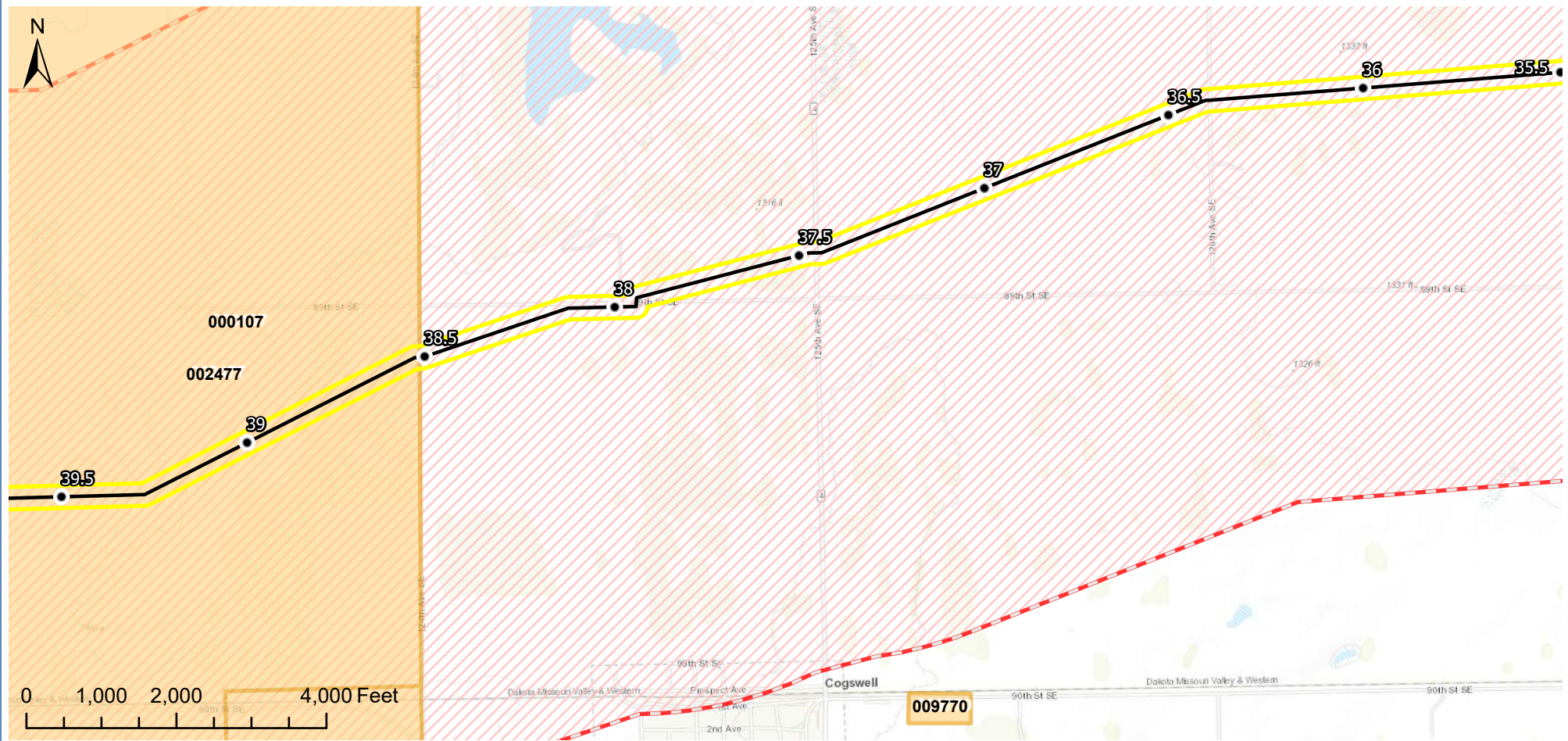
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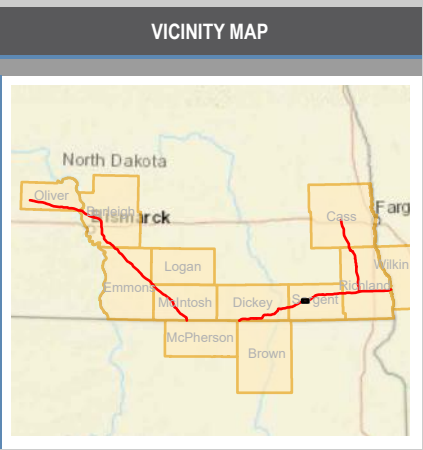
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1 : 24,000 1 inch equals 2,000 feet	Transverse Mercator NAD 1983 BLM Zone 14N ftUS
Sheet:	Drawing Number:
89 89 of 103	2002-01-001 Revision 0

BACKGROUND REVIEW RESULTS MAP - NORTH DAKOTA



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LEGEND

● Milepost	▨ 1-Mile Buffer
● Historical Structure	■ Cultural Heritage Resource
● Previously Recorded Site	■ Previously Recorded Site
— Main Line	■ Previous Survey
— Lateral Line	■ Sequestration Site Evaluation Area (Site TBD)
— Trunk Line	▭ County Boundary
▭ Project ESA	

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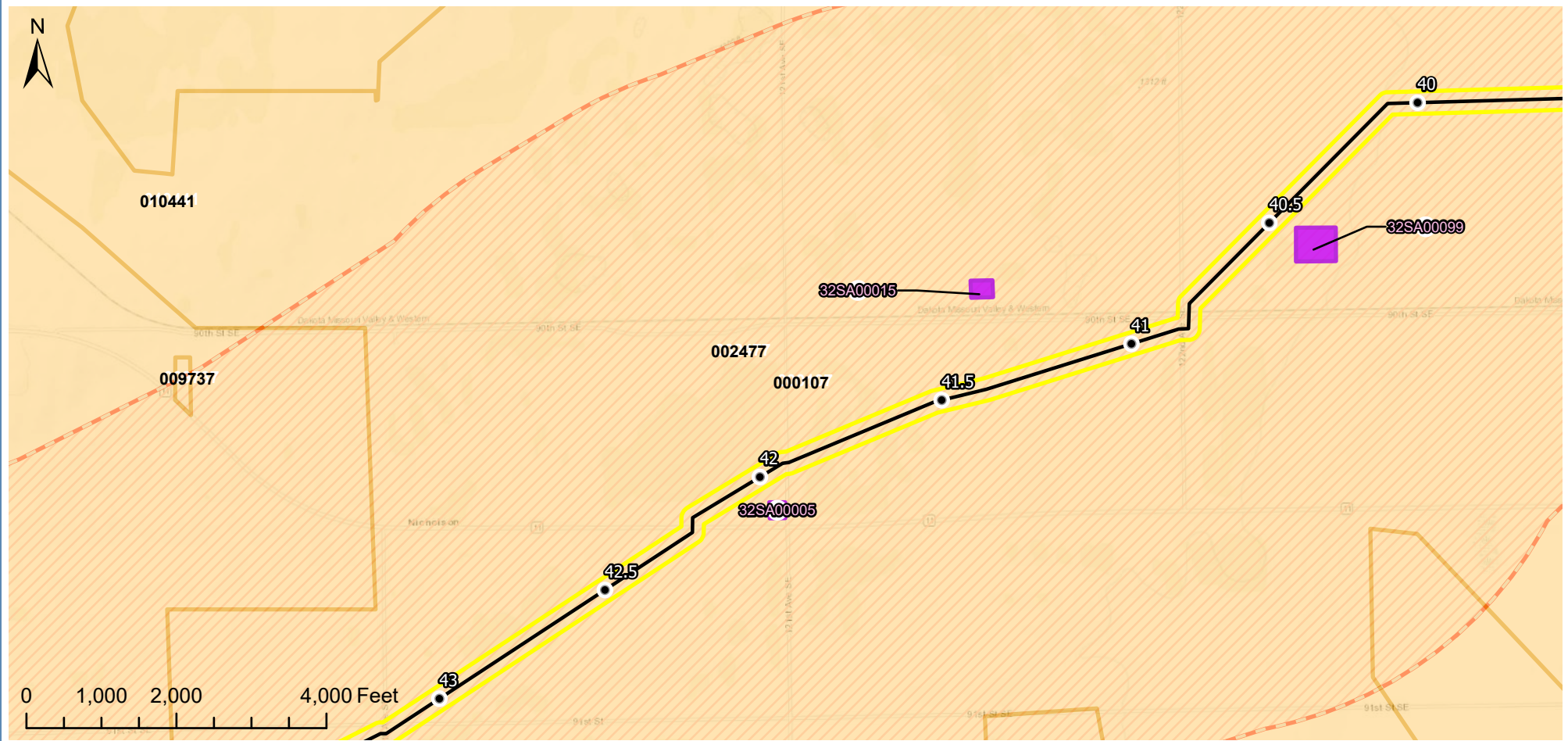
MIDWEST CARBON EXPRESS PROJECT

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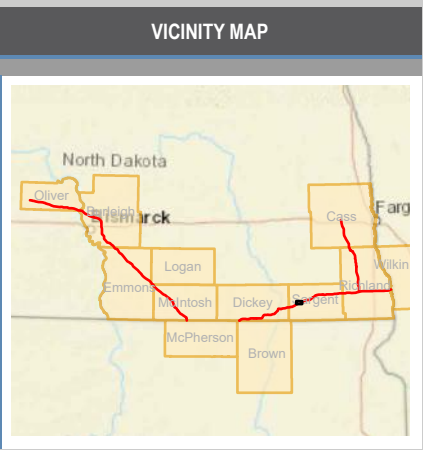
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BACKGROUND REVIEW RESULTS MAP - NORTH DAKOTA



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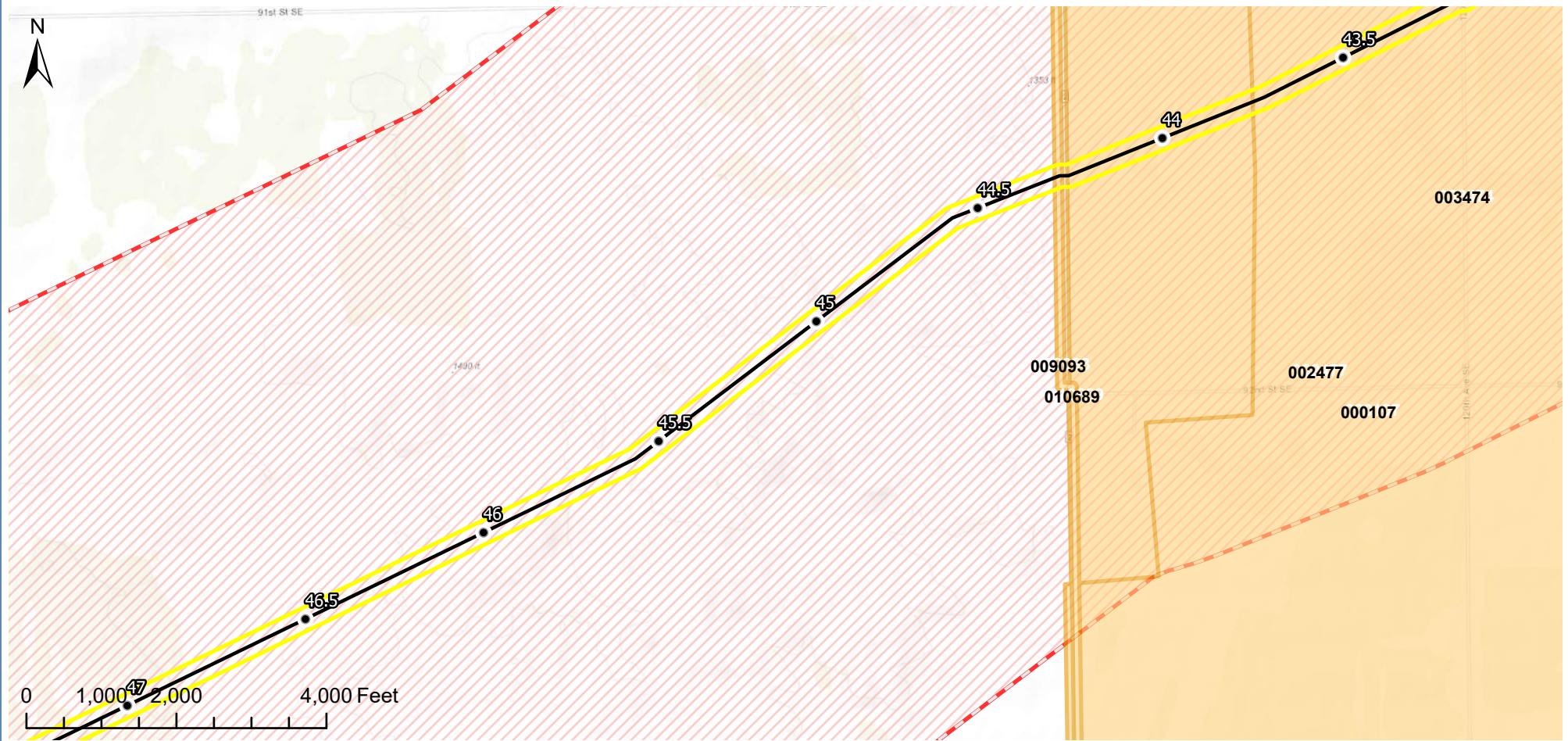
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BACKGROUND REVIEW RESULTS MAP - NORTH DAKOTA

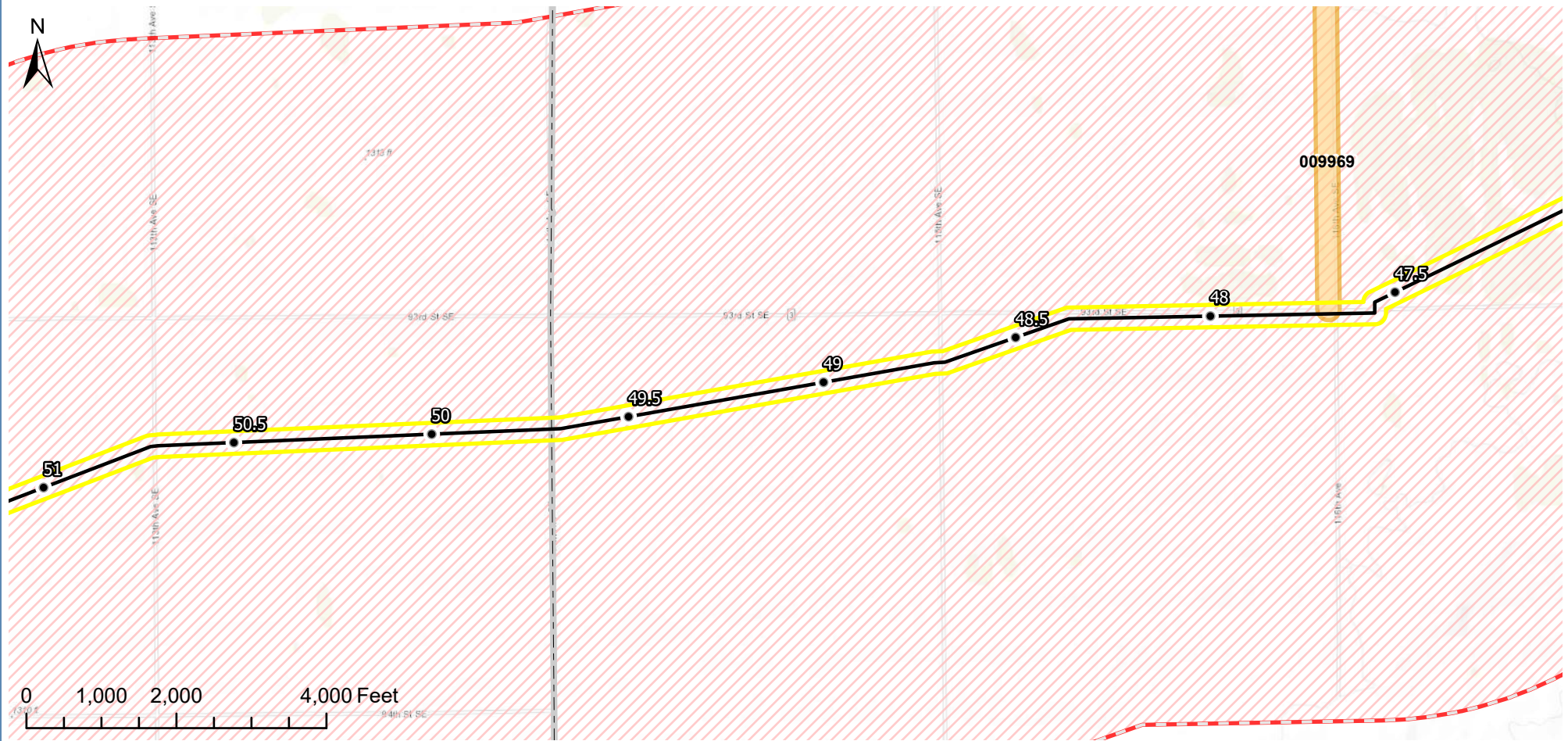


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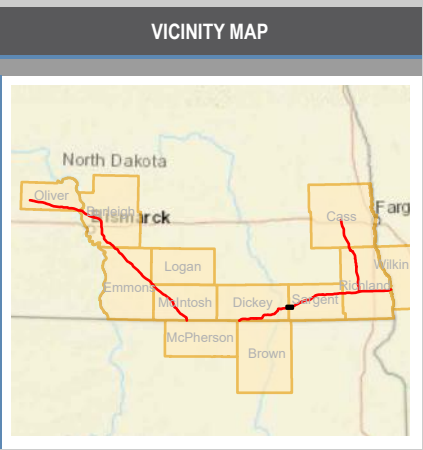
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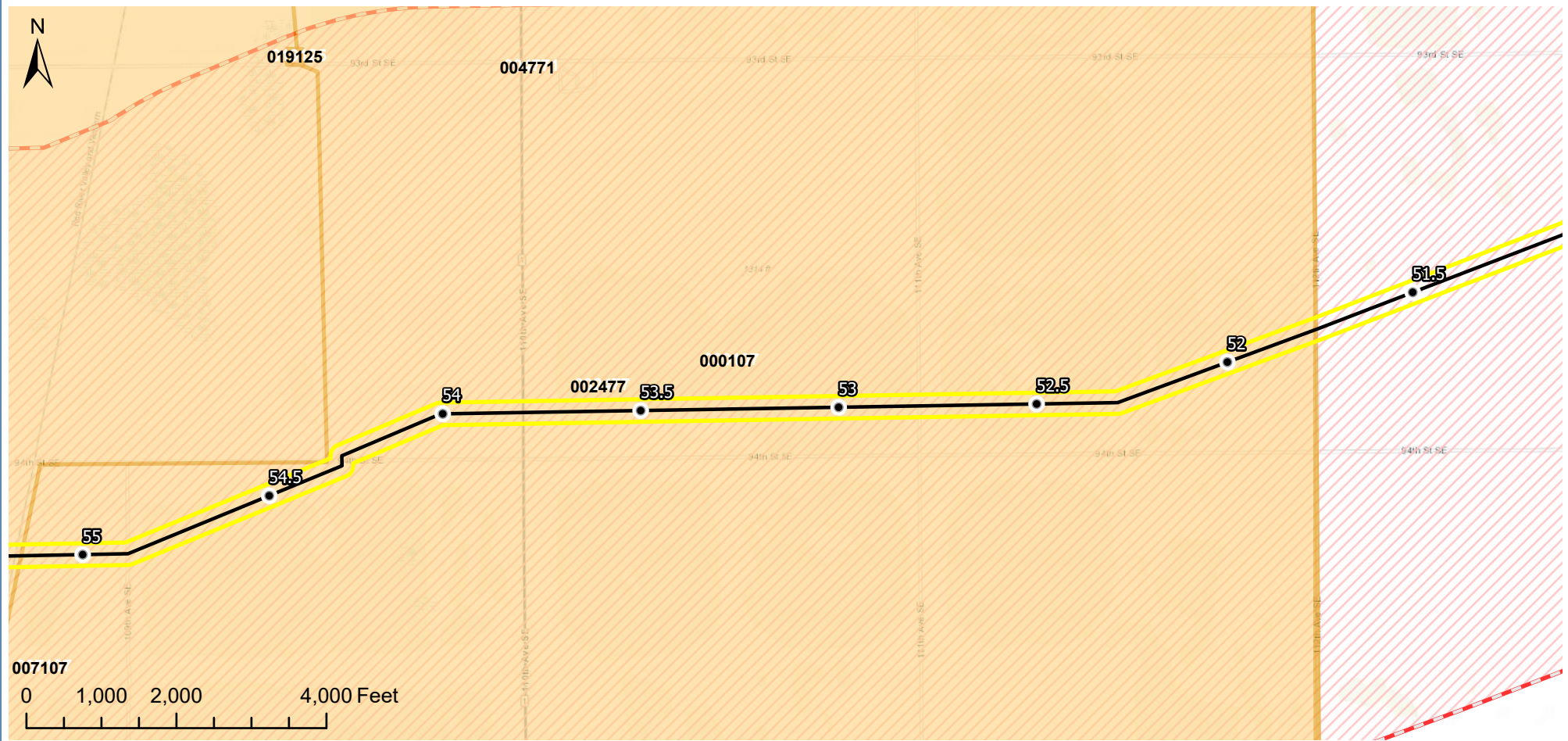
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● Milepost	▨ 1-Mile Buffer
● Historical Structure	■ Cultural Heritage Resource
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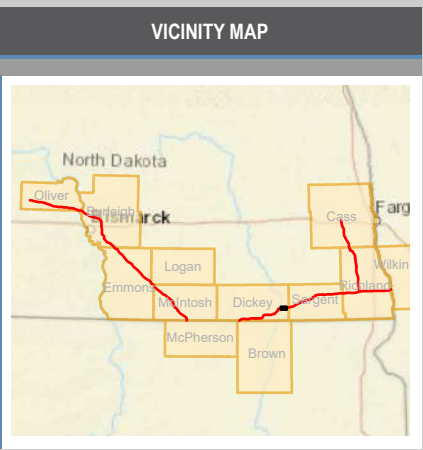
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BACKGROUND REVIEW RESULTS MAP - NORTH DAKOTA



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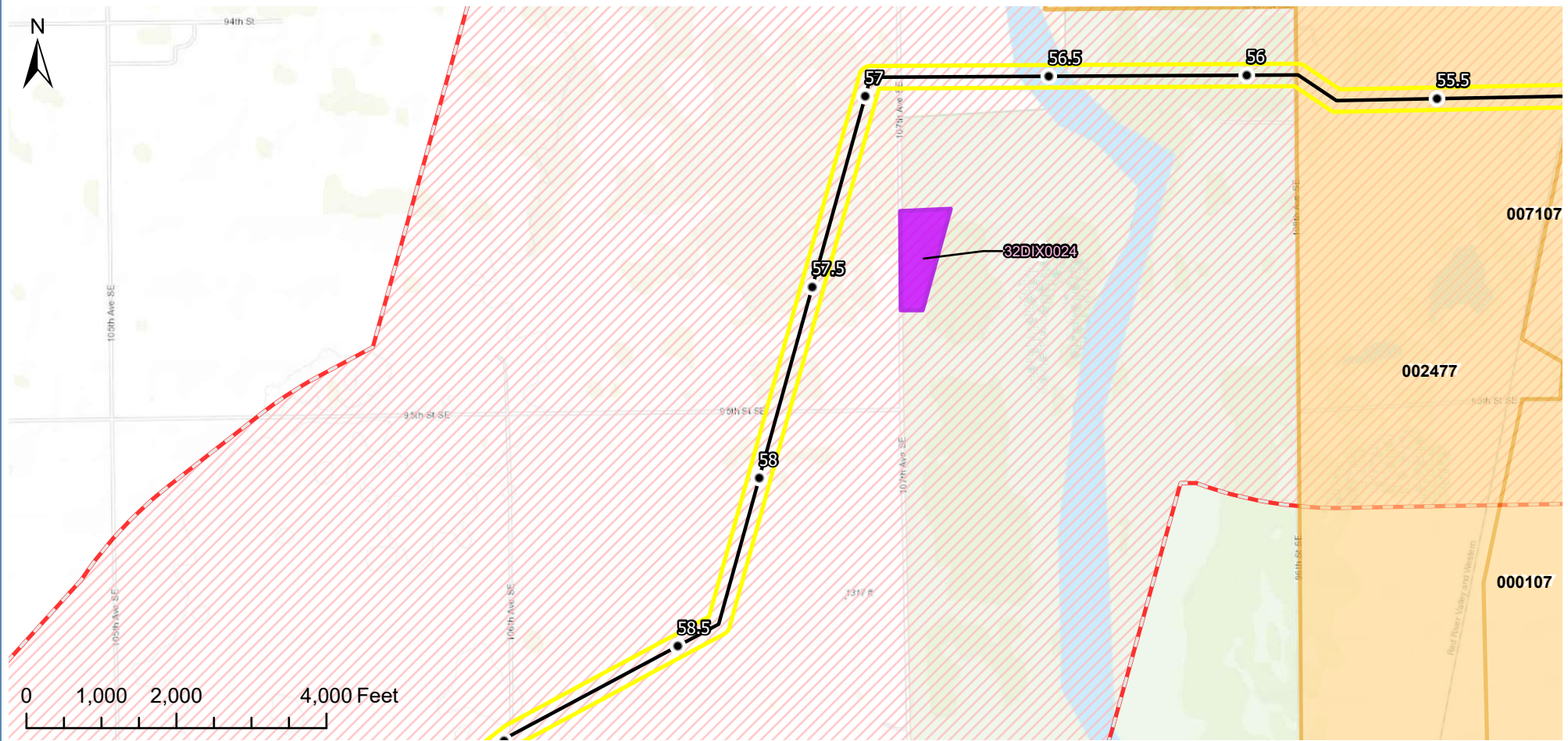
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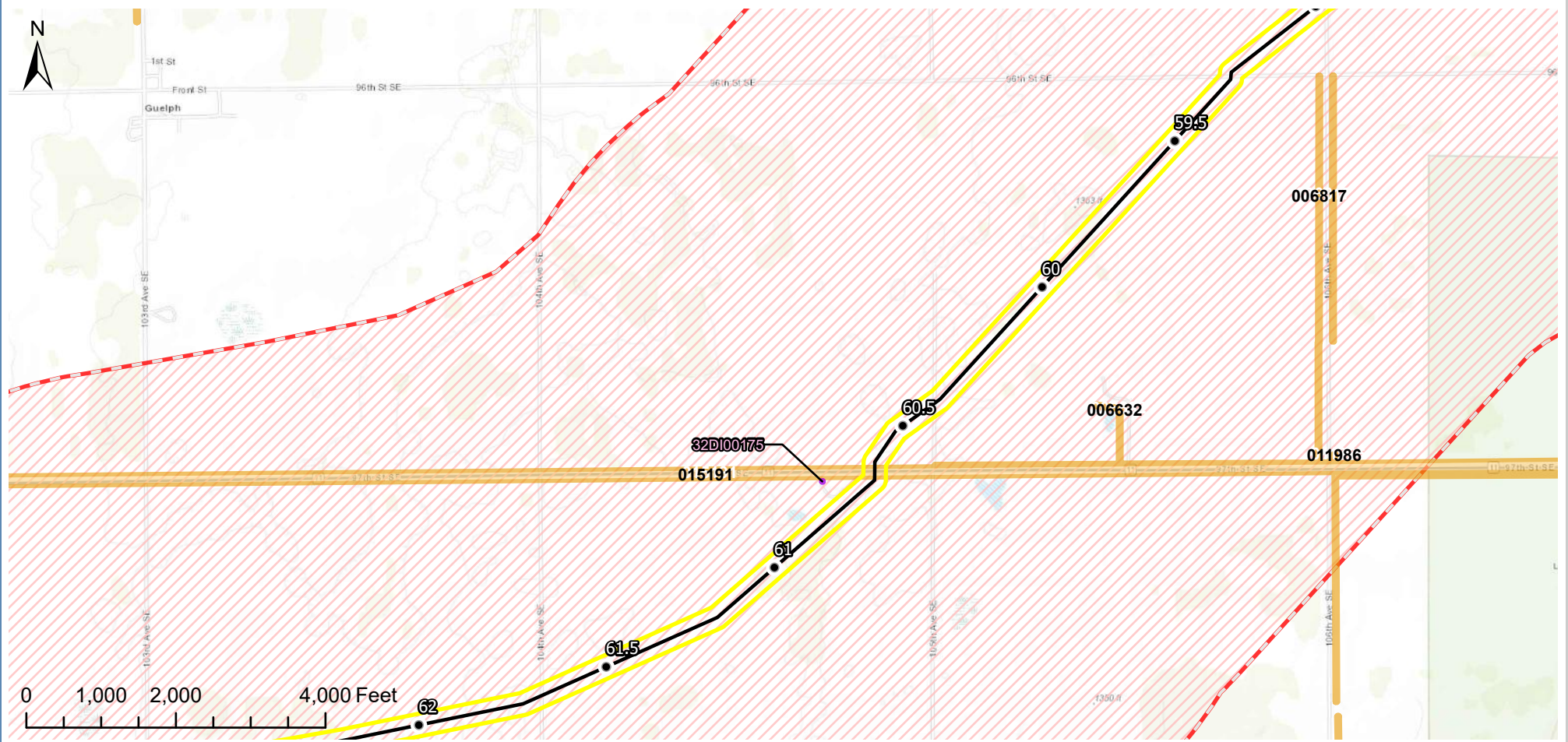
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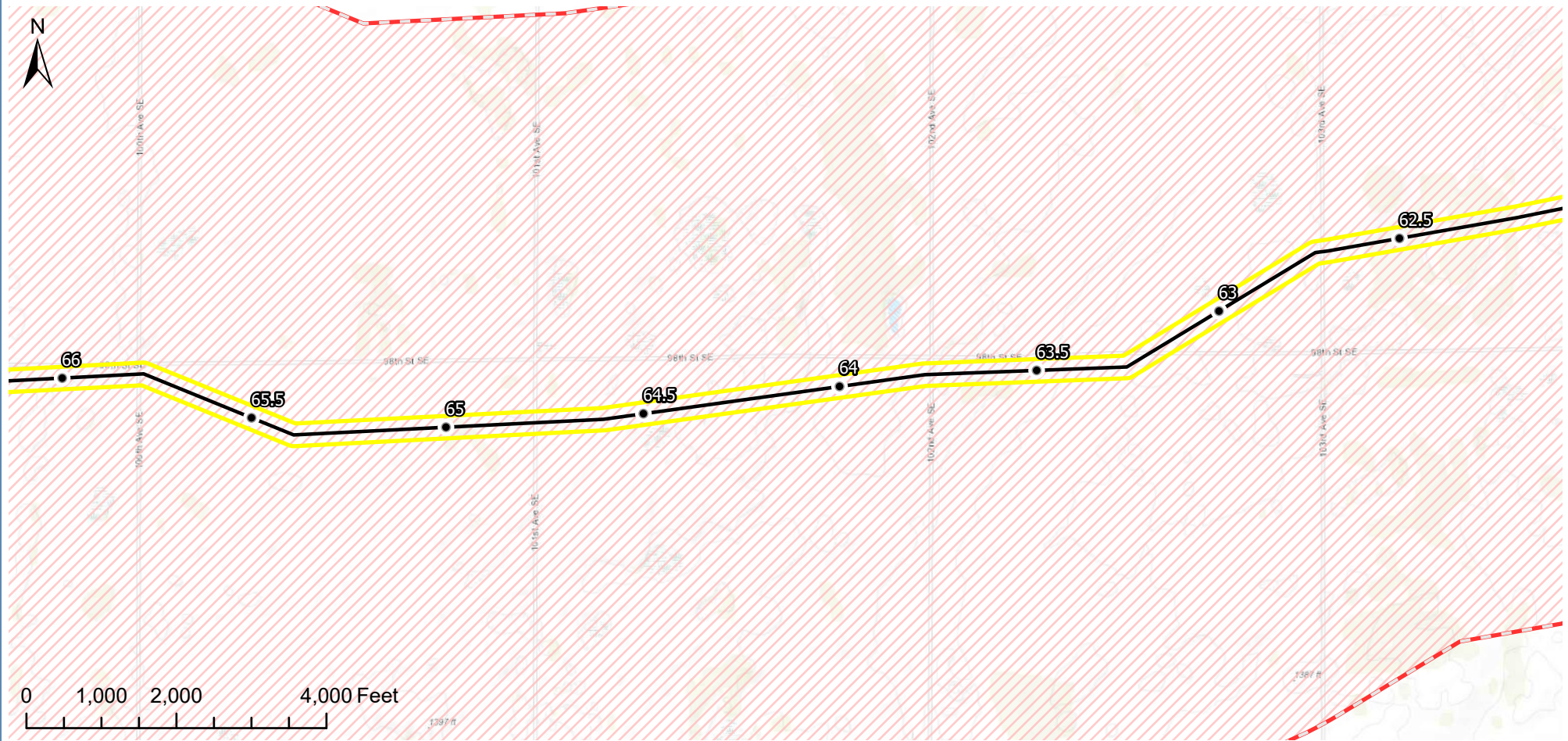
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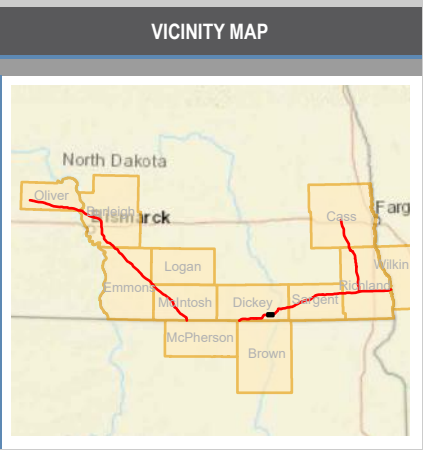
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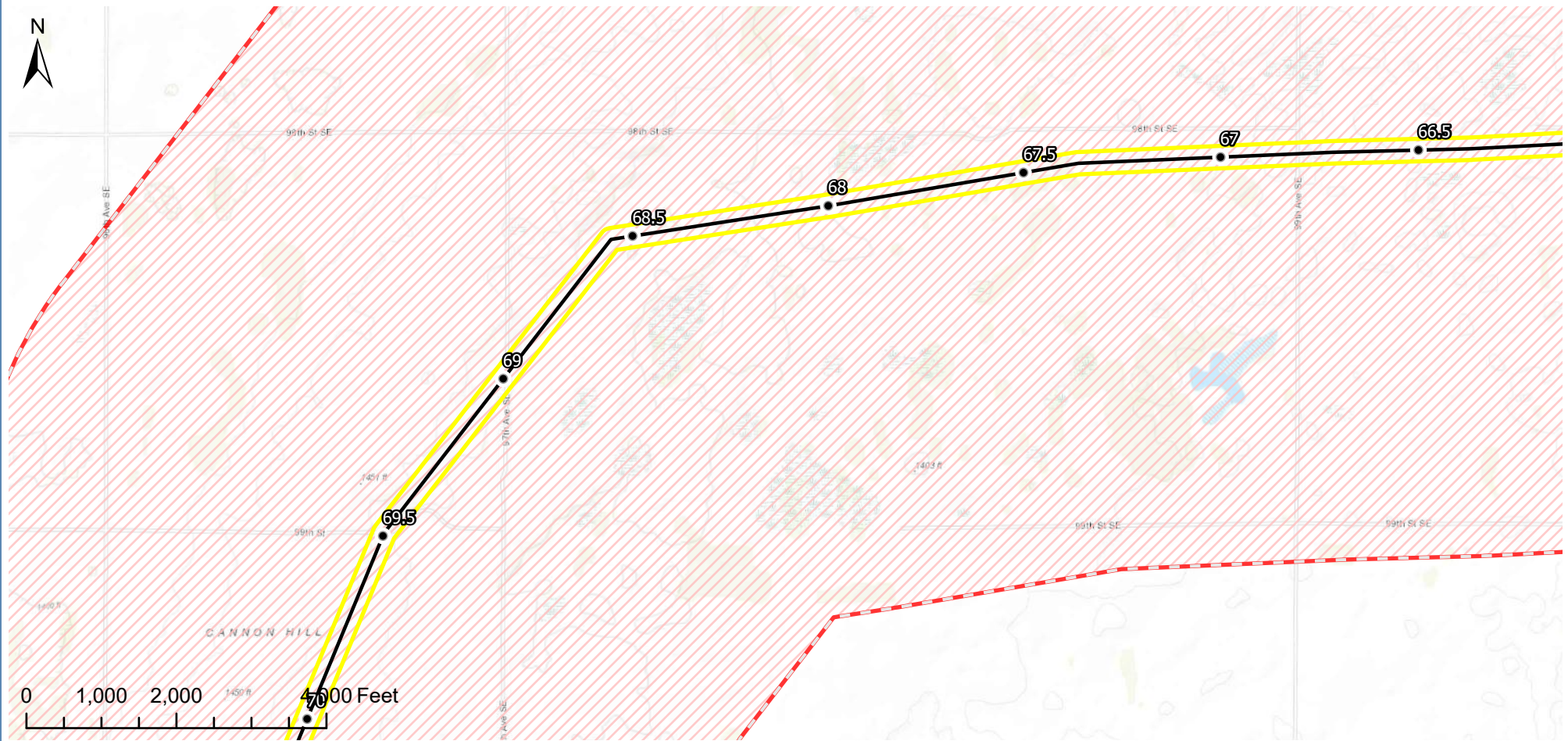
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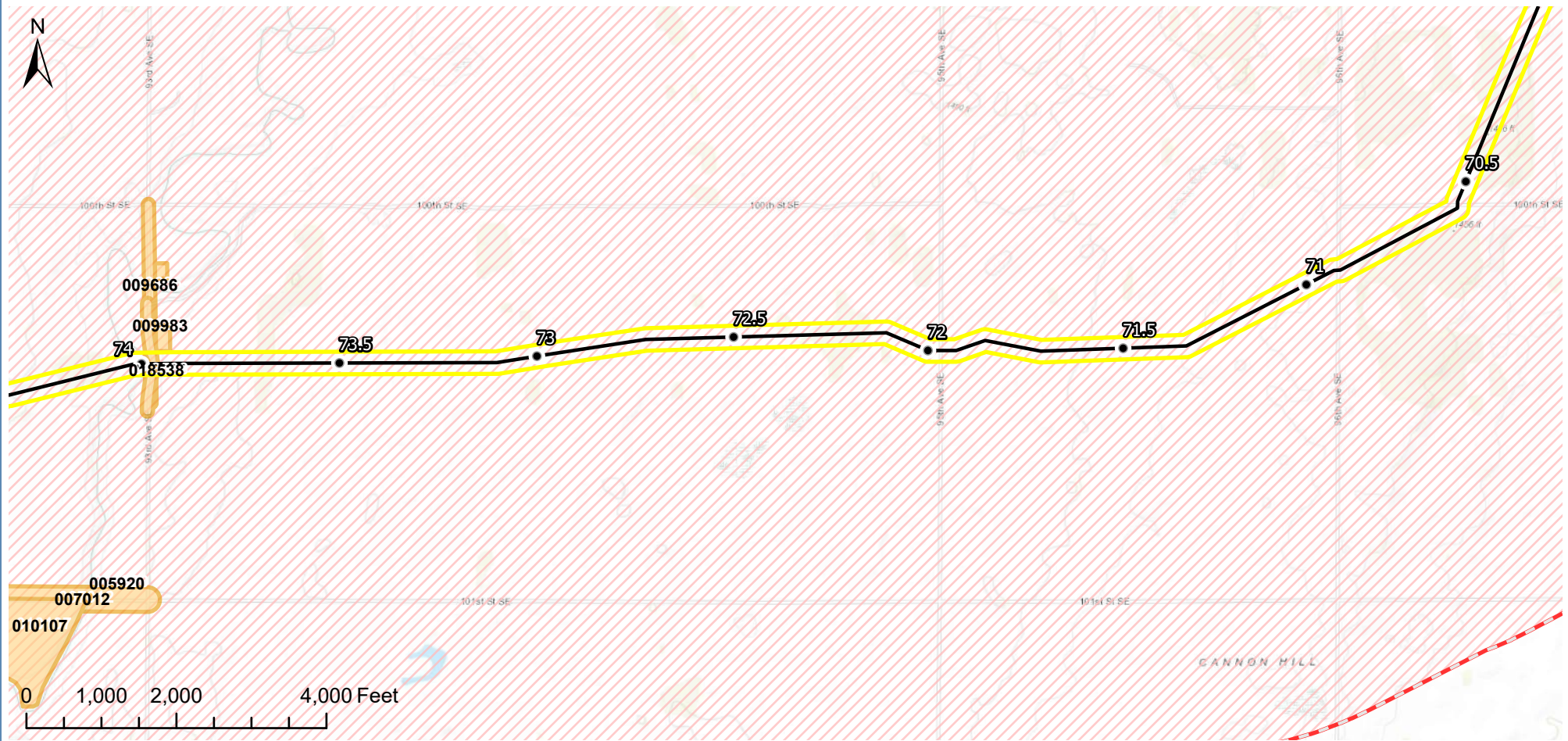
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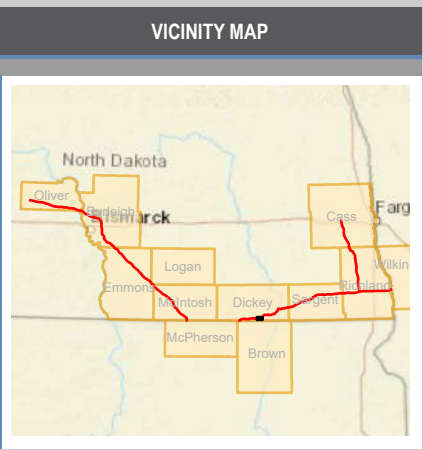
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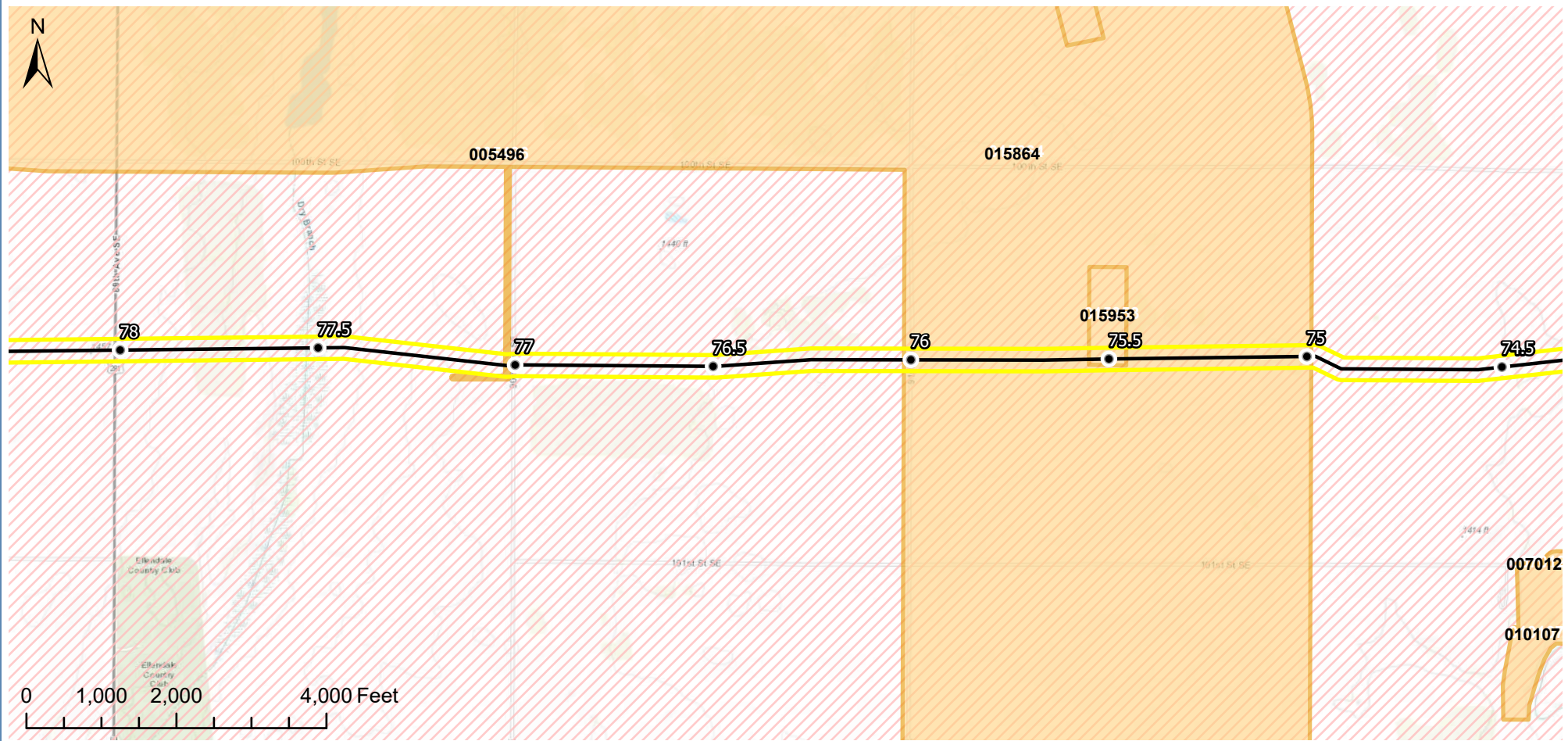
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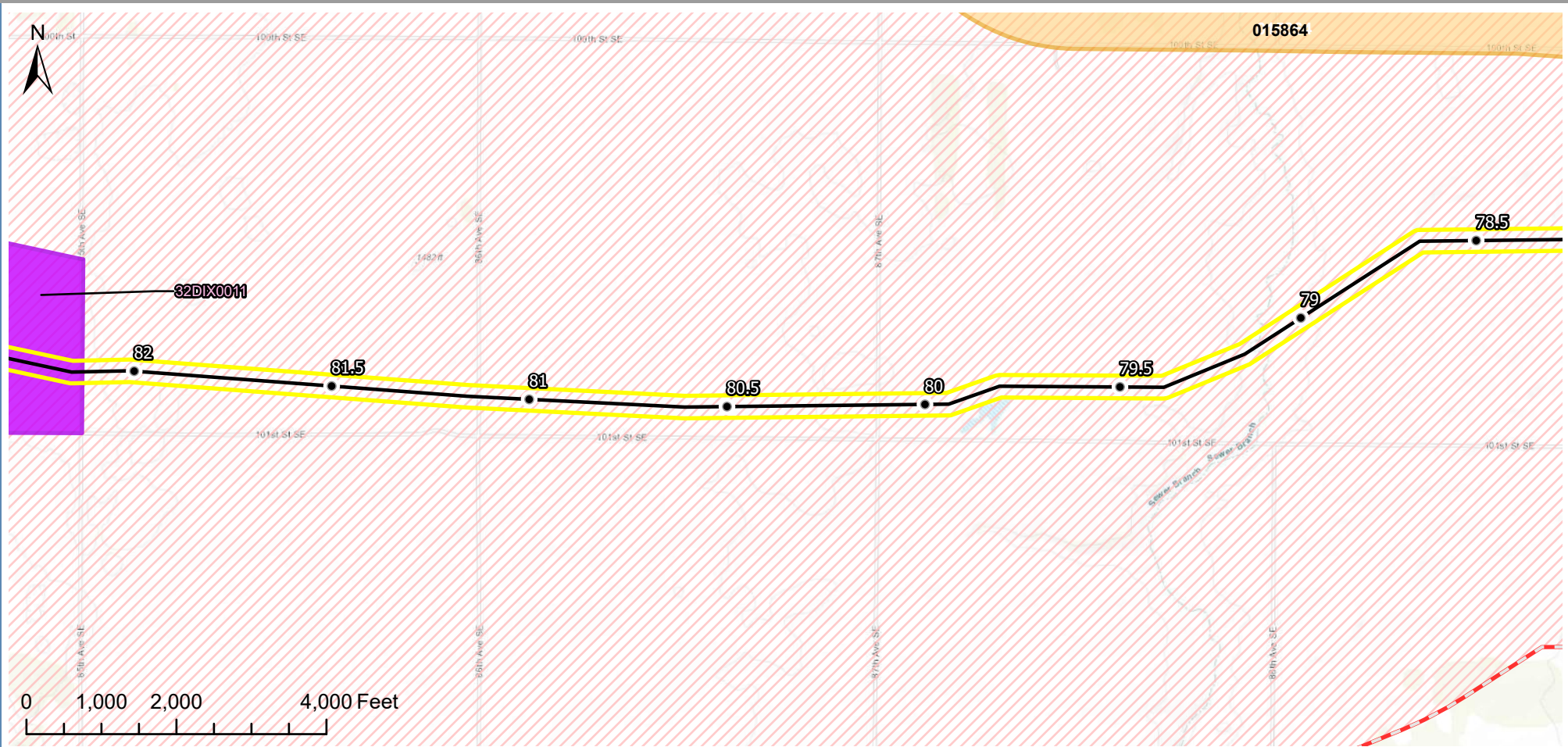
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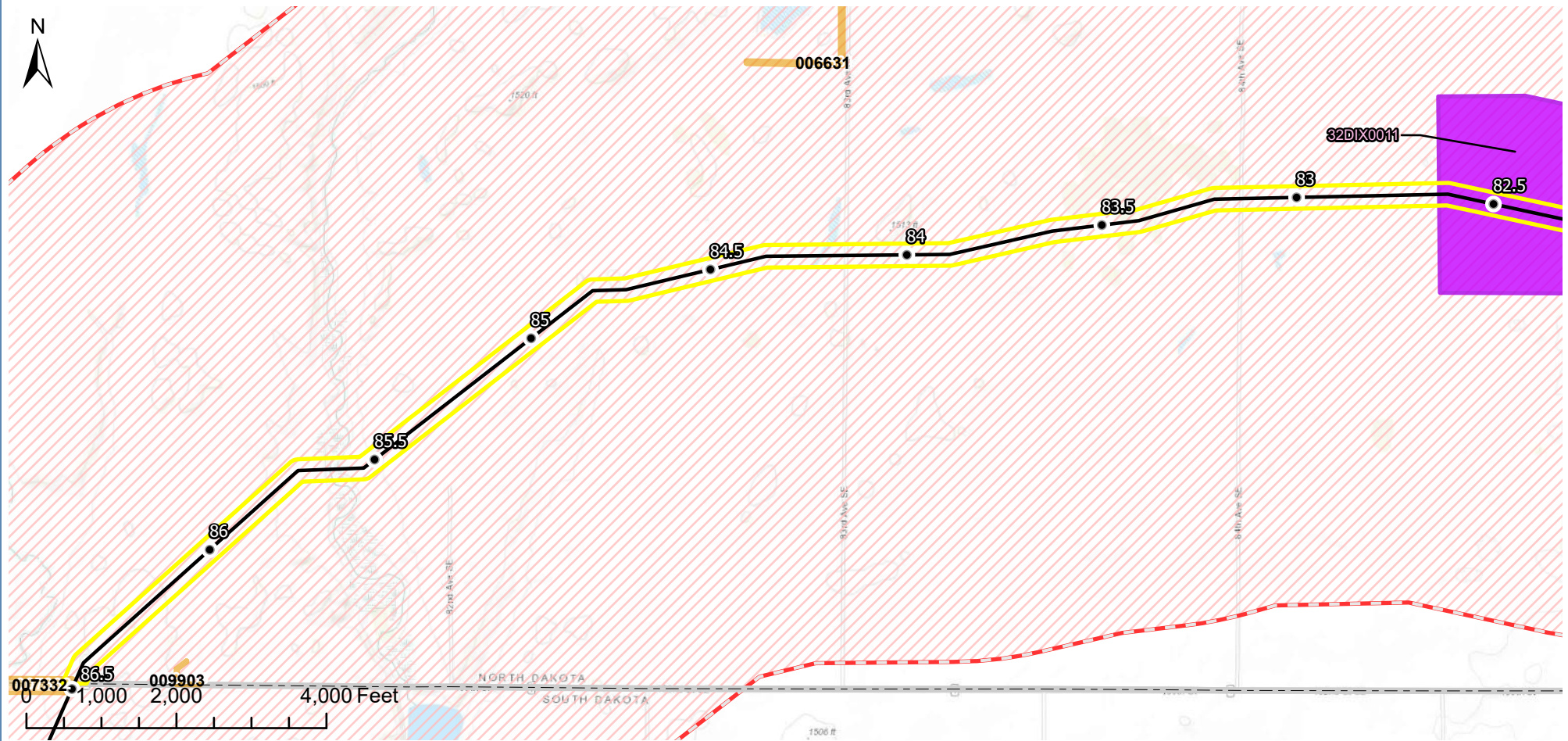
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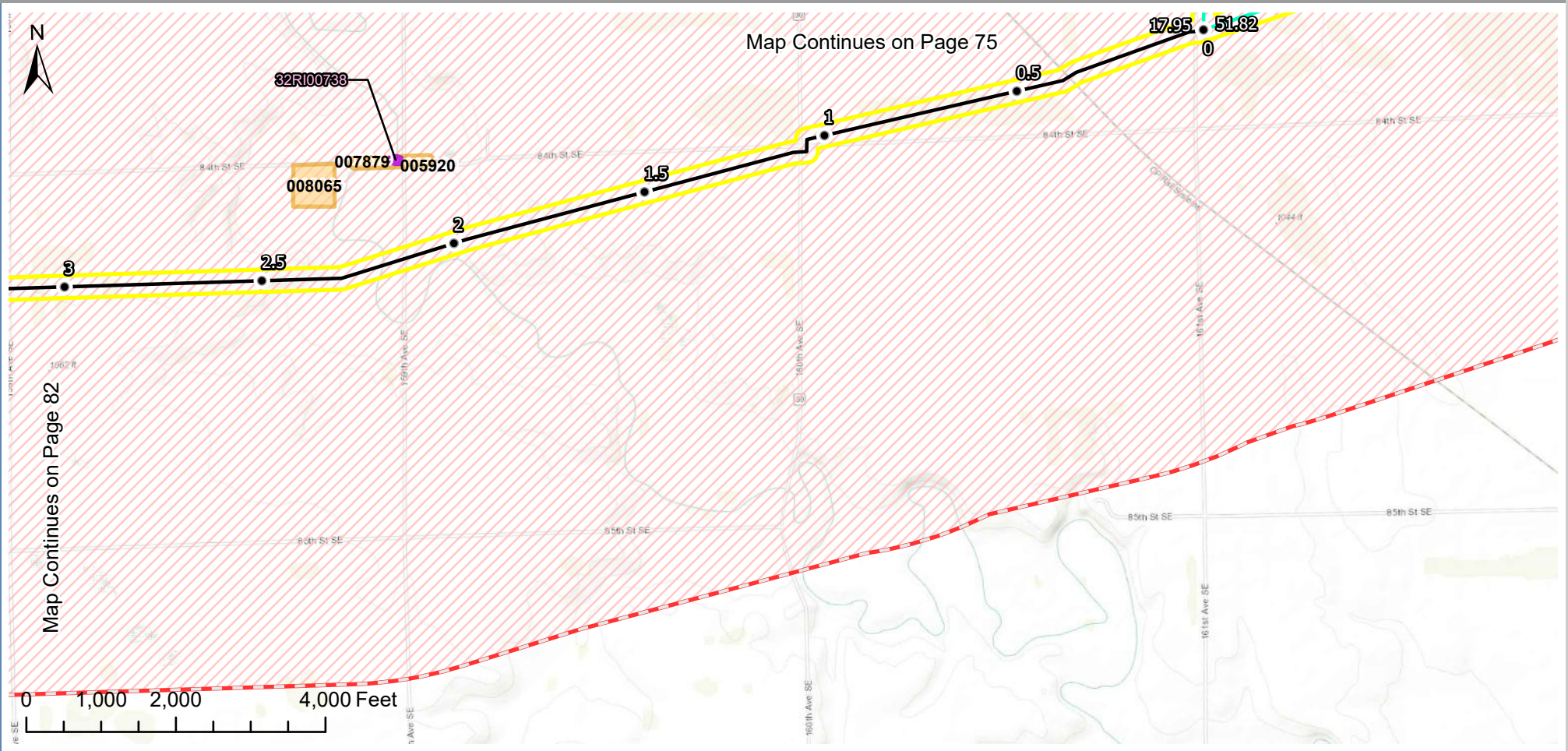
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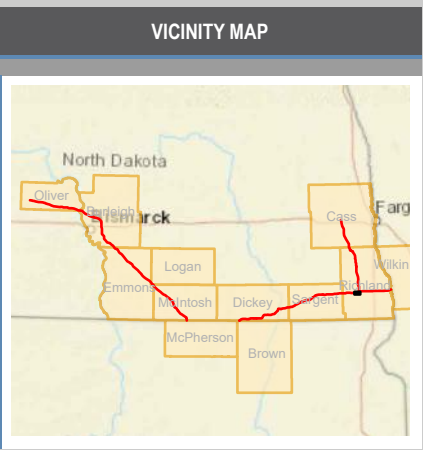
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BACKGROUND REVIEW RESULTS MAP - NORTH DAKOTA



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LEGEND

Milepost	1-Mile Buffer
Historical Structure	Cultural Heritage Resource
Previously Recorded Site	Previously Recorded Site
Main Line	Previous Survey
Lateral Line	Sequestration Site Evaluation Area (Site TBD)
Trunk Line	County Boundary
Project ESA	

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Appendix B – Previously Recorded Site Data

Appendix B – Site Data

SITS # (MAP ID)	Trinomial	Mile Post	Temporal Association	Site Type	NRHP Eligibility	Distance and Direction from Project ESA
32BL00009	32BL9	132.35	Late Prehistoric	Plains Village	Eligible	0.81 miles north
32BL00101	32BL101	112.87	Unknown Prehistoric	Stone Circle	Undetermined	0.43 miles north
32BL00126	32BL126	130	Unknown Prehistoric	Prehistoric Lithic Scatter	Undetermined	0.61 miles north
32BL00127	32BL127	130.91	Unknown Historic	Depression	Not Eligible	0.46 miles north
32BL00129	32BL129	128.4	Twentieth Century	Historic School	Not Eligible	0.19 miles north
32BL00251	32BL251	127.88	Unknown Historic	Historic Farmstead	Not Eligible	Within Project ESA
32BL00552	32BL552	127.85	Unknown Prehistoric	Carin	Undetermined	0.08 miles north
32BL00556	32BL556	128.95	Unknown Prehistoric	Prehistoric Lithic Scatter	Undetermined	0.2 miles south
32BL00638	32BL638	115.83	Unknown Historic	Windmill, Depression	Undetermined	0.56 miles east
32BL00771	32BL771	101.8	Nineteenth Century	Telfer School	Undetermined	0.34 miles north
32BL00795	32BL795	126.07	Unknown	Depression	Undetermined	0.33 miles north
32BL00829	32BL829	96.35	Unknown	Carin	Undetermined	0.98 miles south
32BLX0014 2	32BLX142	122.76	Unknown Prehistoric	Isolate	Undetermined	0.78 miles north

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SITS # (MAP ID)	Trinomial	Mile Post	Temporal Association	Site Type	NRHP Eligibility	Distance and Direction from Project ESA
32BLX0029 0	32BLX290	124.75	Unknown Prehistoric	Isolate	Undetermined	0.56 miles south
32BLX0031	32BLX31	110.4 - 110.8	Unknown	Depression and associated Cultural Materials	Undetermined	0.96 miles north
32BLX0033	32BLX33	124.12 - 124.38	Unknown	Unknown	Undetermined	0.22 miles north
32BLX0062	32BLX62	112.73 - 113.27	Unknown Prehistoric	Prehistoric Lithic Scatter	Undetermined	0.62 miles east
32BLX0083	32BLX83	126.89 - 127.38	Unknown	Unknown	Undetermined	0.25 miles south
32BLX0084	32BLX84	126.89 - 127.38	Unknown	Unknown	Undetermined	Within Project ESA
32BLX0085	32BLX85	122.53 - 122.78	Unknown Prehistoric	Artifact Scatter	Undetermined	0.81 miles north
32BLX0086	32BLX86	122.29 - 122.77	Unknown Prehistoric	Unknown	Undetermined	0.96 miles north
32BLX0087	32BLX87	123.6 - 123.86	Unknown	Unknown	Undetermined	0.37 miles south
32BLX0110	32BLX110	132.13	Unknown Prehistoric	Unknown	Undetermined	0.54 miles north
32BLX0377	32BLX377	97.9	Unknown Historic	Possible Historic Farmstead	Undetermined	Within Project ESA
32BLX0380	32BLX380	96.69	Twentieth Century	Possible Historic Farmstead	Undetermined	Within Project ESA
32BLX0381	32BLX381	98.63	Unknown Historic	Possible Historic Farmstead	Undetermined	1.0 miles north

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SITS # (MAP ID)	Trinomial	Mile Post	Temporal Association	Site Type	NRHP Eligibility	Distance and Direction from Project ESA
32BLX0384	32BLX384	95.5	Twentieth Century	Possible Historic Farmstead	Undetermined	0.63 miles north
32BLX0390	32BLX390	95.44 - 95.57	Twentieth Century	Possible Historic Farmstead	Undetermined	0.45 miles north
32CS00036	32CS36	10.45 - 10.84	Late Prehistoric	Prehistoric Lithic Scatter	Undetermined	0.35 miles east
32CS00041	32CS41	19.53 - 19.76	Archaic and Late Prehistoric	Prehistoric Lithic Scatter	Undetermined	0.73 miles east
32CS04959	32CS4959	13.27	Twentieth Century	Historic Bridge	Not Eligible	0.92 miles west
32CSX05018	32CSX5018	19.2	Unknown Historic	Historic Spring	Not Eligible	0.48 miles east
32CSX05019	32CSX5019	19.1	Unknown Historic	Historic Dump	Not Eligible	0.43 miles east
32CSX0016	32CSX16	14.7 - 14.8	Unknown	Unknown	Undetermined	Within Project ESA
32CSX0017	32CSX17	15.5 - 15.8	Unknown	Unknown	Undetermined	Within Project ESA
32CSX00108	32CSX108	0	Unknown Prehistoric	Isolate	Undetermined	0.4 miles west
32CSX0043	32CSX43	11.1 - 11.4	Unknown Historic	Unknown	Undetermined	0.96 miles west
32CSX0077	32CSX77	0.67 - 0.94	Unknown	Unknown	Undetermined	0.36 miles west
32CSX0112	32CSX112	0.00 - 0.41	Unknown	Unknown	Undetermined	Within Project ESA

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SITS # (MAP ID)	Trinomial	Mile Post	Temporal Association	Site Type	NRHP Eligibility	Distance and Direction from Project ESA
32DI00007	32DI17	87	Unknown Historic	Historic Bridge	Not Eligible	0.83 miles north
32DI00009	32DI19	52.2	Twentieth Century	Possible Farmstead	Not Eligible	0.77 miles south
32DI00036	32DI36	74	Twentieth Century	Historic Bridge	Not Eligible	0.55 miles north
32DI00047	32DI47	84.1	Unknown Prehistoric	Prehistoric Lithic Scatter	Undetermined	0.52 miles north
32DI00057	32DI57	86.8	Unknown	No Site File	Undetermined	0.79 miles north
32DI00175	32DI175	60.77	Unknown	No Site File	Undetermined	0.13 miles north
32DIX0004	32DIX4	58.57	Unknown	Unknown	Undetermined	0.76 miles southeast
32DIX0011	32DIX11	81.96 - 82.47	Unknown	Unknown	Undetermined	0.23 miles southeast
32DIX00126	32DIX126	66.77	Unknown Historic	Isolate	Undetermined	0.62 miles south
32DIX00133	32DIX133	84.18	Unknown Prehistoric	Isolate	Undetermined	0.68 miles north
32DIX0024	32DIX24	57.31 - 57.58	Unknown	Unknown	Undetermined	0.5 miles north
32DIX0076	32DIX76	56.9 - 57.8	Unknown	Artifact Scatter	Undetermined	0.93 miles south
32EM00137	32EM137	84.88	Unknown Historic	Unknown	Undetermined	Within Project ESA

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SITS # (MAP ID)	Trinomial	Mile Post	Temporal Association	Site Type	NRHP Eligibility	Distance and Direction from Project ESA
32EM00198	32EM198	58.3	Unknown	No Site File	Undetermined	0.59 miles northeast
32EM00301	32EM301	58.61	Unknown Historic	St. Joseph's Cemetery	Undetermined	0.32 miles north
32EM00384	32EM384	89.32	Unknown Historic	Depression - Possible Cellar	Undetermined	0.41 miles north
32EM00467	32EM467	62.9	Unknown Prehistoric	Carin and Stone Circle	Undetermined	Within Project ESA
32EM00495	32EM495	62.5	Unknown Prehistoric	Stone Circle	Undetermined	0.92 miles southwest
32EM00897	32EM897	81.3 - 82.5	Unknown Historic	Historic Farmstead	Undetermined	0.6 miles south
32EM00973	32EM973	80.09	Unknown Historic	Historic Farmstead	Undetermined	0.17 miles north
32EM00990	32EM990	90.4	Unknown Historic	Historic Structure	Undetermined	0.45 miles north
32EM01043	32EM1043	66.56	Unknown Historic	Historic Farmstead	Undetermined	0.52 miles northeast
32EM01139	32EM1139	67.43	Late Nineteenth/Early Twentieth Century	Historic Homestead	Not Eligible	0.49 miles north
32EM01145	32EM1145	68.9 - 69.2	Twentieth Century	Historic Structure	Undetermined	0.89 miles south
32EM01146	32EM1146	65.8	Unknown	No Site File	Undetermined	0.83 miles south
32EM01153	32EM1153	68 - 68.3	Unknown	No Site File	Undetermined	1.0 miles south

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SITS # (MAP ID)	Trinomial	Mile Post	Temporal Association	Site Type	NRHP Eligibility	Distance and Direction from Project ESA
32EM01155	32EM1155	64.6 - 64.9	Twentieth Century	Historic Farmstead	Undetermined	0.94 miles northeast
32EM01156	32EM1156	63.4 - 63.6	Unknown	No Site File	Undetermined	0.97 miles north
32EM01164	32EM1164	70.36	Unknown	No Site File	Undetermined	1.0 miles north
32EM01167	32EM1167	67.9	Unknown Historic	Historic Bridge	Not Eligible	0.94 miles east
32EM01175	32EM1175	69.9	Unknown	No Site File	Undetermined	1.0 miles north
32EMX0119	32EMX119	93.61 - 94.13	Unknown Prehistoric	Artifact Scatter	Undetermined	1.0 miles south
32EMX0146 1	32EMX1461	65	Unknown Prehistoric	Isolate	Undetermined	0.88 miles north
32EMX0146 66	32EMX146 6	67.79	Unknown Prehistoric	Isolate	Undetermined	Within Project ESA
32EMX0147 1	32EMX1471	68.79	Unknown Historic	Isolate	Undetermined	0.44 miles north
32EMX0147 4	32EMX1474	73.13	Unknown Prehistoric	Isolate	Undetermined	0.44 miles south
32EMX0147 5	32EMX1475	72.88	Unknown Prehistoric	Isolate	Undetermined	0.25 miles south
32EMX0147 6	32EMX1476	71.92	Unknown Prehistoric	Isolate	Undetermined	0.46 miles south
32EMX0407	32EMX407	93.43 - 93.56	Late Nineteenth/Early Twentieth Century	Historic Farmstead	Undetermined	0.69 miles north

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SITS # (MAP ID)	Trinomial	Mile Post	Temporal Association	Site Type	NRHP Eligibility	Distance and Direction from Project ESA
32EMX0408	32EMX408	92.76	Unknown Historic	Historic Farmstead	Undetermined	0.09 miles east
32EMX0412	32EMX412	89.78	Unknown Historic	Historic Farmstead	Undetermined	0.5 miles southwest
32EMX0425	32EMX425	95.13	Early Twentieth Century	Historic Farmstead	Undetermined	0.44 miles north
32EMX1365	32EMX1365	77.1 - 77.4	Twentieth Century	Historic Farmstead	Undetermined	0.91 miles west
32EMX1450	32EMX1450	95.81	Twentieth Century	Historic Farmstead	Undetermined	0.96 miles west
32MOX006 24	32MOX624	135.13	Unknown Prehistoric	Isolate	Undetermined	0.66 miles south
32MT00009	32MT9	56.9	Late Nineteenth/Early Twentieth Century	Historic Farmstead	Undetermined	0.81 miles northeast
32MT00015	32MT15	31.3	Unknown Historic	Historic Farmstead	Undetermined	0.88 miles southwest
32MT00031	32MT31	33.8 - 34.6	Twentieth Century	Historic Farmstead	Undetermined	Within Project ESA
32MT00032	32MT32	35.07 - 35.42	Twentieth Century	Historic Farmstead	Undetermined	0.72 miles east
32MT00074	32MT74	32.08	Unknown Historic	Railroad	Undetermined	Within Project ESA
32MT00098	32MT98	45	Unknown Prehistoric	Multiple Carins	Eligible	0.95 miles northeast
32MT00281	32MT281	47.44	Unknown	No Site File	Undetermined	0.93 miles northeast

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SITS # (MAP ID)	Trinomial	Mile Post	Temporal Association	Site Type	NRHP Eligibility	Distance and Direction from Project ESA
32MT00287	32MT287	27.12	Unknown Prehistoric	Carin and Stone Circle	Undetermined	0.36 miles west
32MT00359	32MT359	50.3	Unknown Historic	Historic Farmstead	Undetermined	0.89 miles southwest
32MTX00055	32MTX55	44.31	Unknown Prehistoric	Isolate	Undetermined	0.35 miles west
32MTX0016	32MTX16	47.58 - 48.74	Unknown	Unknown	Undetermined	Within Project ESA
32MTX0049	32MTX49	36.24 - 36.94	Unknown Prehistoric	Stone Circle	Undetermined	Within Project ESA
32MTX0050	32MTX50	35.62 - 36.24	Unknown Prehistoric	Stone Circle	Undetermined	Within Project ESA
32MTX0051	32MTX51	35.00 - 35.39	Unknown Prehistoric	Stone Circle	Undetermined	Within Project ESA
32MTX0052	32MTX52	36.05	Unknown Prehistoric	Stone Circle	Undetermined	0.14 miles west
32OL00001	32OL1	132.73 - 133.7	Unknown	Possible Storage Pits	Undetermined	Within Project ESA
32OL00002	32OL2	133.87	Archaic	Earth Lodge Village	Undetermined	0.84 miles north
32OL00320	32OL320	150.66	Unknown Prehistoric	Stone Circle, Prehistoric Lithic Scatter	Undetermined	0.73 miles north
32OL00321	32OL321	150.5	Unknown Historic	Historic Farmstead	Not Eligible	1.0 miles north
32OL00322	32OL322	150.47	Unknown Prehistoric	Stone Circle	Not Eligible	0.17 miles north

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SITS # (MAP ID)	Trinomial	Mile Post	Temporal Association	Site Type	NRHP Eligibility	Distance and Direction from Project ESA
32OL00355	32OL355	139.85	Prehistoric Unknown	Artifact Scatter	Undetermined	0.52 miles west
32OL00363	32OL363	133.95	Historic Unknown	Artifact Scatter, Depression and Trail	Undetermined	0.49 miles north
32OL00412	32OL412	134.96	Unknown Prehistoric	Artifact Scatter	Undetermined	0.38 miles south
32OL00413	32OL413	135.35	Unknown Prehistoric	Artifact Scatter	Undetermined	0.54 miles north
32OL00500	32OL500	165.93	Unknown Prehistoric	Stone Circle	Not Eligible	0.14 miles south
32OL00501	32OL501	146.64	Unknown Prehistoric	Stone Circle	Not Eligible	0.12 miles north
32OL00502	32OL502	146.79	Unknown Prehistoric	Stone Circle	Not Eligible	0.24 miles north
32OL00503	32OL503	146.87	Unknown Prehistoric	Stone Circle	Not Eligible	0.11 miles north
32OL00509	32OL509	149.08	Unknown Prehistoric	Stone Circle	Not Eligible	0.53 miles north
32OL00512	32OL512	149.5	Twentieth Century	Historic Farmstead	Not Eligible	0.54 miles north
32OL00514	32OL514	149	Twentieth Century	Historic Farmstead	Not Eligible	0.2 miles south
32OL00516	32OL516	147.5	Unknown	No Site File	Undetermined	0.81 miles north
32OL00517	32OL517	150.35	Twentieth Century	Historic Farmstead	Not Eligible	0.46 miles north

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SITS # (MAP ID)	Trinomial	Mile Post	Temporal Association	Site Type	NRHP Eligibility	Distance and Direction from Project ESA
32OL00518	32OL518	149.74 - 150.30	1945-1975	Dump, Quarry/Mine	Not Eligible	0.56 miles north
32OL00519	32OL519	150.14	Unknown Prehistoric	Stone Circle	Not Eligible	0.57 miles north
32OL00522	32OL522	149	1900-1950	Depression, Foundation	Not Eligible	0.97 miles north
32OL00523	32OL523	146.56	Unknown Prehistoric	Cairn	Not Eligible	0.48 miles north
32OL00532	32OL532	150.22	Unknown Prehistoric	Cairn, Stone Circle	Not Eligible	0.7 miles north
32OL00533	32OL533	149.87	Unknown Prehistoric	Stone Circle	Not Eligible	0.94 miles north
32OL00534	32OL534	150.17	Twentieth Century	Historic Farmstead	Eligible	1.0 miles north
32OL00536	32OL536	150.23	Unknown	No Site File	Undetermined	0.82 miles north
32OL00537	32OL537	150.12	1940-1950	Quarry/Mine	Not Eligible	0.69 miles north
32OL00541	32OL541	147.15	Archaic (Pelican Lake)/Woodland (Sonota/Besant)/Late Prehistoric (Plain's Village)	Cairn, Stone Circle	Eligible	0.93 miles north
32OL00549	32OL549	146.88	Unknown	No Site File	Undetermined	0.82 miles north
32OL00550	32OL550	149.66	Unknown Prehistoric	Cairn, Stone Circle	Not Eligible	0.96 miles north
32OL00551	32OL551	146.71	Unknown	No Site File	Undetermined	1.0 miles north

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SITS # (MAP ID)	Trinomial	Mile Post	Temporal Association	Site Type	NRHP Eligibility	Distance and Direction from Project ESA
32OL00558	32OL558	146.79	Unknown Prehistoric	Cairn, Stone Circle	Not Eligible	0.78 miles north
32OL00585	32OL585	146.32	Unknown Prehistoric	Cairn	Undetermined	0.51 miles south
32OL00586	32OL586	146.35	Unknown Prehistoric	Cairn	Undetermined	0.89 miles north
32OL00590	32OL590	150.73	Woodland/Late Prehistoric	Cairn, Grave	Not Eligible (Exhumed)	0.25 miles north
32OL00599	32OL599	148.5	Unknown	No Site File	Undetermined	0.49 miles south
32OL00600	32OL600	148.89	Unknown Prehistoric	Rock Features	Not Eligible	0.37 miles south
32OL00601	32OL601	148.85	Unknown Prehistoric	Rock Features	Undetermined	0.54 miles South
32OL00602	32OL602	148.59	Unknown Prehistoric	Cairn	Not Eligible	0.31 miles south
32OL00603	32OL603	148.39	Unknown Prehistoric	Cairn	Not Eligible	1.0 miles south
32OL00605	32OL605	147	Unknown Prehistoric	Cairn	Undetermined	0.22 miles south
32OL00606	32OL606	147.27	Unknown Prehistoric	Cairn	Not Eligible	0.59 miles north
32OL00607	32OL607	147.27	Unknown Prehistoric	Pit	Not Eligible	0.62 miles north
32OL00608	32OL608	150.53	Unknown Prehistoric	Stone Circle	Not Eligible	0.19 miles north

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SITS # (MAP ID)	Trinomial	Mile Post	Temporal Association	Site Type	NRHP Eligibility	Distance and Direction from Project ESA
32OL00609	32OL609	150.57	Unknown Prehistoric	Stone Circle	Not Eligible	0.53 miles north
32OL00610	32OL610	150.55	Unknown Prehistoric	Rock Features	Not Eligible	0.47 miles north
32OL00611	32OL611	150.52	Unknown Prehistoric	Stone Circle	Not Eligible	0.29 miles north
32OL00612	32OL612	150.8	Unknown Prehistoric	Stone Circle, Rock Features	Not Eligible	0.54 miles north
32OL00613	32OL613	150.8	Unknown Prehistoric	Stone Circle	Not Eligible	0.41 miles north
32OL00614	32OL614	150.5	1949-1951	Quarry/Mine	Not Eligible	0.11 miles north
32OL00615	32OL615	147.12	1930-1943	Quarry/Mine	Not Eligible	0.14 miles south
32OL00631	32OL631	147.31	1930-1943	Quarry/Mine	Not Eligible	0.17 miles south
32OL00632	32OL632	150.56	1949-1951	Quarry/Mine	Not Eligible	0.32 miles north
32OL00634	32OL634	1464.4 1	Unknown Historic	Historic Farmstead	Not Eligible	0.38 miles south
32OL00635	32OL635	147.11	Twentieth Century	Historic Farmstead	Not Eligible	0.41 miles south
32OL00637	32OL637	148.44	Late Nineteenth/Early Twentieth Century	Historic Farmstead, Dump	Not Eligible	0.66 miles south
32OL00661	32OL661	148.39	Unknown Historic	Depression	Undetermined	0.28 miles south

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SITS # (MAP ID)	Trinomial	Mile Post	Temporal Association	Site Type	NRHP Eligibility	Distance and Direction from Project ESA
32OL00681	32OL681	161.75	Unknown Prehistoric	Cairn	Undetermined	0.17 miles south
32OL00687	32OL687	161.9	Unknown Prehistoric	Cairn, Stone Circle, Rock Features	Undetermined	0.84 miles south
32OL00696	32OL696	141.95	Unknown Historic	Historic Farmstead	Undetermined	0.89 miles south
32OL00697	32OL697	161.9	Unknown	No Site File	Undetermined	1.0 miles south
32OL00704	32OL704	160.94	Unknown Historic	School Foundation	Undetermined	0.47 miles south
32OL00705	32OL705	162.03	Unknown Prehistoric	Cairn, Stone Circle	Undetermined	1.0 miles south
32OL00706	32OL706	162.22	Unknown Prehistoric	Stone Circle	Undetermined	1.0 miles south
32OL00713	32OL713	163.94	Unknown Prehistoric	Stone Circle	Undetermined	0.14 miles south
32OL00715	32OL715	138.86	Unknown	No Site File	Undetermined	0.3 miles south
32OL00721	32OL721	143.44	Unknown Historic	Historic Dump	Not Eligible	1.0 miles south
32OL00722	32OL722	139.85	Unknown Prehistoric	Cairn	Undetermined	0.62 miles north
32OL00817	32OL817	150.92	Unknown Prehistoric	Cairn	Not Eligible	0.86 miles north
32OL00818	32OL818	150.56	Unknown Prehistoric	Cairn, Stone Circle	Not Eligible	0.79 miles north

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SITS # (MAP ID)	Trinomial	Mile Post	Temporal Association	Site Type	NRHP Eligibility	Distance and Direction from Project ESA
32OL00826	32OL826	152.41	Unknown Prehistoric	Stone Circle	Not Eligible	0.43 miles north
32OL00827	32OL827	152.77	Unknown	No Site File	Undetermined	0.25 miles north
32OL00828	32OL828	152.92	Late Prehistoric/Unknown Prehistoric	Stone Circle, Hearth	Eligible	0.33 miles north
32OL00829	32OL829	152.85	Unknown Prehistoric	Stone Circle	Not Eligible	0.2 miles north
32OL00830	32OL830	153.21	Unknown Prehistoric	Cairn	Not Eligible	0.58 miles north
32OL00831	32OL831	153.25	Unknown Prehistoric	Stone Circle	Eligible	0.68 miles north
32OL00832	32OL832	153.22	Unknown Prehistoric	Stone Circle	Not Eligible	0.93 miles north
32OL00833	32OL833	152.8	Unknown Prehistoric	Cairn	Not Eligible	0.82 miles north
32OL00834	32OL834	152.78	Unknown Prehistoric	Cairn	Undetermined	0.73 miles north
32OL00835	32OL835	152.97	Unknown Prehistoric	Stone Circle	Eligible	0.59 miles north
32OL00836	32OL836	152.85	Woodland (Besant/Sonota)	Stone Circle	Eligible	0.6 miles north
32OL00837	32OL837	152.5	1898-1960	Historic Farmstead	Not Eligible	0.18 miles north
32OL00838	32OL838	152.77	Unknown Prehistoric	Stone Circle	Not Eligible	0.95 miles north

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SITS # (MAP ID)	Trinomial	Mile Post	Temporal Association	Site Type	NRHP Eligibility	Distance and Direction from Project ESA
32OL00841	32OL841	150.69	1917 -	Quarry/Mine, Artifact Scatter	Not Eligible	0.75 miles north
32OL00842	32OL842	153.05	Unknown Prehistoric	Cairn, Stone Circle	Eligible	0.43 miles north
32OL00843	32OL843	152.93	Unknown Prehistoric	Cairn, Hearth, Stone Circle	Eligible	0.45 miles north
32OL00844	32OL844	152.79	Unknown Prehistoric	Stone Circle	Eligible	0.48 miles north
32OL00845	32OL845	151.07	Twentieth Century	Dump	Not Eligible	0.13 miles north
32OL00846	32OL846	151.03	Twentieth Century	Dump	Not Eligible	0.1 miles north
32OL00952	32OL952	157.37	1917-1964	Artifact Scatter	Undetermined	0.73 miles north
32OL00953	32OL953	158.7 - 158.9	Twentieth Century	Historic Farmstead	Eligible	0.24 miles north
32OL00955	32OL955	155.34	Twentieth Century	Historic Farmstead	Not Eligible	0.28 miles north
32OL00956	32OL956	155.85	Twentieth Century	Historic Farmstead	Not Eligible	0.41 miles north
32OLX0007 2	32OLX72	139.96	Unknown Prehistoric	Isolate	Undetermined	0.56 miles north
32OLX0007 3	32OLX73	139.93	Unknown Prehistoric	Isolate	Undetermined	0.56 miles north
32OLX0008	32OLX8	133.73	Unknown	Depression	Undetermined	0.55 miles north

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SITS # (MAP ID)	Trinomial	Mile Post	Temporal Association	Site Type	NRHP Eligibility	Distance and Direction from Project ESA
32OLX0014	32OLX14	164	Unknown Historic	Post Office	Undetermined	0.5 miles south
32OLX0017 3	32OLX173	139.68	Unknown Prehistoric	Isolate	Undetermined	0.43 miles north
32OLX0017 4	32OLX174	139.28	Unknown Prehistoric	Isolate	Undetermined	0.33 miles south
32OLX0017 5	32OLX175	138.9	Unknown Prehistoric	Isolate	Undetermined	0.81 miles south
32OLX0048	32OLX48	156.24 - 156.76	Archaic	Stone Circle, Artifact Scatter	Undetermined	0.77 miles south
32OLX0049	32OLX49	158.91 - 159.17	Archaic	Artifact Scatter	Undetermined	0.34 miles north
32OLX0050	32OLX50	158.76 - 158.89	Unknown Prehistoric	Artifact Scatter	Undetermined	0.07 miles south
32OLX0051	32OLX51	158.67 - 158.91	Unknown	No Site File	Undetermined	0.53 miles south
32OLX0052	32OLX52	158.39 - 158.77	Archaic/Late Prehistoric	Artifact Scatter	Undetermined	Within Project ESA
32OLX0080	32OLX80	133.7 - 134.21	Unknown Prehistoric	Prehistoric Mound	Undetermined	Within Project ESA
32OLX0114	32OLX114	147.4 - 147.65	Unknown Historic	Quarry/Mine	Undetermined	0.77 miles south
32OLX0404	32OLX404	158.21	Twentieth Century	Historic Farmstead	Not Eligible	0.25 miles north
32RI00674	32RI674	32.4	Unknown Historic	Historic Church/Cemetery	Undetermined	Within Project ESA

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SITS # (MAP ID)	Trinomial	Mile Post	Temporal Association	Site Type	NRHP Eligibility	Distance and Direction from Project ESA
32RI00676	32RI676	20.29	Unknown Historic	Historic Church/Cemetery	Undetermined	0.69 miles
32RI00738	32RI738	2.09	Twentieth Century	Historic Bridge	Undetermined	0.27 miles
32RI00835	32RI835	31.3	Twentieth Century	Historic Bridge	Not Eligible	0.79 miles
32RI00875	32RI875	4.36	Twentieth Century	Historic Bridge	Not Eligible	0.58 miles
32RI00876	32RI876	47.66	Twentieth Century	Historic School	Not Eligible	0.45 miles east
32RI00900	32RI900	31.57	Unknown Historic	Historic School	Undetermined	0.18 miles west
32RIX0038	32RIX38	7.0 - 7.5	Unknown	Unknown	Undetermined	Within Project ESA
32RIX0041	32RIX41	1.1	Unknown	Unknown	Undetermined	0.86 miles west
32RIX0063	32RIX63	35.59 - 36.59	Unknown	Unknown	Undetermined	Within Project ESA
32RIX0079	32RIX79	23.7 - 24.3	Unknown	Unknown	Undetermined	0.79 miles west
32RIX0080	32RIX80	24 - 24.5	Unknown	Unknown	Undetermined	0.91 miles west
32SA00005	32SA5	42.07	Unknown Historic	Historic Cemetery	Undetermined	0.12 miles south
32SA00006	32SA6	43.4	Unknown Historic	Historic Farmstead	Not Eligible	0.49 miles south

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SITS # (MAP ID)	Trinomial	Mile Post	Temporal Association	Site Type	NRHP Eligibility	Distance and Direction from Project ESA
32SA00012	32SA12	39.7	Twentieth Century	Historic Farmstead	Not Eligible	0.81 miles south
32SA00015	32SA15	41.35	Twentieth Century	Historic Farmstead	Not Eligible	0.25 miles north
32SA00016	32SA16	40.3	Twentieth Century	Historic Farmstead	Not Eligible	0.78 miles north
32SA00037	32SA37	39.3	Twentieth Century	Historic Farmstead	Not Eligible	0.47 miles south
32SA00053	32SA53	30.3	Unknown	No Site File	Undetermined	0.47 miles north
32SA00087	32SA87	18.7	Unknown Historic	Historic School	Undetermined	1.0 miles south
32SA00092	32SA92	12.8	Twentieth Century	Historic Bridge	Not Eligible	0.48 miles north
32SA00099	32SA99	40.4 - 40.6	Unknown Historic	Historic Farmstead	Undetermined	0.35 miles east
32SA00100	32SA100	40.5	Unknown Historic	Historic Farmstead/Townsite	Undetermined	0.48 miles northwest
32SAX00094	32SAX94	12.13	Unknown Prehistoric	Isolate	Undetermined	0.84 miles south
32SAX0023	32SAX23	42.04	Unknown	Unknown	Undetermined	0.48 miles
32SAX0026	32SAX26	12.2 - 13.2	Unknown Prehistoric	Prehistoric Mound	Undetermined	1.0 miles south
32SAX0032	32SAX32	28.4 - 28.7	Unknown	Unknown	Undetermined	0.96 miles south

Appendix B – Site Data

SITS # (MAP ID)	Trinomial	Mile Post	Temporal Association	Site Type	NRHP Eligibility	Distance and Direction from Project ESA
CHFEM001 4	CHFEM001 4	67.87	Unknown Prehistoric	Cairn	Eligible	0.2 miles southwest
CHFEM001 5	CHFEM001 5	67.87	Unknown Prehistoric	Cairn	Eligible	0.1 miles southwest
CHFEM004 8	CHFEM004 8	67.79	Unknown Prehistoric	Ceremonial/Meeting Ground	Eligible	Within Project ESA
CHFEM011 8	CHFEM011 8	67.93	Unknown Prehistoric	Stone Feature	Eligible	0.1 miles southwest

Appendix C – Previously Recorded Survey Data

Appendix C – Survey Data

Map ID	Survey Number	Survey Date	Line Name	Mile Post	Survey Report Title	Survey Report Authors
000107	MS 107	1974	NDT-211	52-55.5	Archaeological Surveys in the Garrison Diversion Unit, North Dakota	(Schneider, Fred - Primary Author);(Vehik, Rain - Contributing Author)
000309	MS 309	1978	NDM-106	135	Preliminary Cultural Resources Survey in the Path of the Proposed State Route 1806 in Oliver County, North Dakota	(Ahler, Stanley A. - Contributing Author);(Kjos, John M. - Contributing Author);(Weston, Timothy - Primary Author)
002477	MS 2477	1979	NDT-211	52-56	Final Report of an Architectural and Historical Survey on Approximately 121,265 Acres in Central North Dakota, Dickey, Sargent, LaMoure, Stutsman, Eddy, Wells & Sheridan Counties	(Reynolds, William E. - Contributing Author);(Starr, Dennis J. - Primary Author)
002517	MS 2517	1981	NDM-106	135.1	North Dakota Highway 1806, Oliver County, Re-Route Survey: Cultural Resources Inventory (Class III)	Dill, Christopher L.
003474	MS 3474	1983	NDT-211	40-43.5	Architectural Recordation and Supplementary Recordation, LaMoure-Oakes Projects Areas, Garrison Diversion Unit, Dickey, Sargent, & LaMoure Co., North Dakota	(Jessen, Patricia M. - Contributing Author);(Schweigert, Kurt P. - Primary Author)
004295	MS 4295	1986	NDL-324	10.6-10.9 & 8.8-9.3	Archaeological Survey and Test Excavations in Cass County, N.D.	Michlovic, Michael G.
004638	MS 4638	1988	NDM-106	110.8	US Sprint Fiber Optic Cable Project Spokane, Washington to Fargo, Billings, Stark, Golden Valley, Morton, Kidder, Stutsman, Burleigh, and Cass Co., North Dakota	(Bergstrom, Mike - Contributing Author);(Brownell, Joan - Contributing Author);(Deaver, Ken - Primary Author);(Deaver, Sherri - Contributing Author);(Martin, Dale L. - Contributing Author)

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Map ID	Survey Number	Survey Date	Line Name	Mile Post	Survey Report Title	Survey Report Authors
004771	MS 4771	1989	NDT-211	53.5-54.5	The Inventory of Proposed Activities Related to Water Services in the Oakes Testing Area, Dickey County, North Dakota	Del Bene, Terry A.
004933	MS 4933	1989	NDM-106	157-157.5	An Archeological Field Survey of Seven Borrow Sources in Mercer, Oliver, and McLean Counties, North Dakota	Thiessen, Thomas D.
005061	MS 5061	1990	NDT-211	35.5 & 32 & 29-30.3 & 28.4 & 23.3-26 & 18-21.7 & 13.2	Arsenic Ground Water Cultural Resources Survey in Richland, Sargent and Ransom Counties, North Dakota	(Bergstrom, Mike - Contributing Author);(Deaver, Sherri - Primary Author)
005441	MS 5441	1991	NDM-106	150.5	West River Telephone's Fiber Optic Lines in Morton & Oliver Counties, North Dakota: An Intensive Cultural Resource Inventory of Select Tracts	Christensen, Robert C.
005496	MS 5496	1991	NDT-211	76.8	A Cultural Resources Inventory of WEB(Phase 7) Construction in Dickey Co., North Dakota & South Dakota Vol.1 & 2	Buechler, Jeffrey V.
005742	MS 5742	1991	NDM-106	157-157.5	A Summary of Archeological Investigations Conducted In Conjunction With Development of a Permanent Visitor Center/Administrative Facility at the Knife River Indian Villages National Historic Site, ME, ML, and OL Counties, ND	Thiessen, Thomas D.

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Map ID	Survey Number	Survey Date	Line Name	Mile Post	Survey Report Title	Survey Report Authors
005806	MS 5806	1992	NDL-324	13	Cass County Highway #16 A Class III Cultural Resource Inventory West of Davenport, North Dakota	Stine, Edward
005920	MS 5920	1992	NDT-211	74.2	Historic Bridges in North Dakota	(Hufstetler, Mark - Contributing Author);(Johnson, Lon - Primary Author);(Quivik, Fredric L. - Contributing Author);(Roise, Charlene K. - Contributing Author)
006161	MS 6161	1993	NDM-106	120.6	American Contracting, Inc's Gravel Pit: A Class III Cultural Resource Inventory Burleigh County, North Dakota	Kulevsky, Andrea
006449	MS 6449	1995	NDL-324	9.8-10.2 & 5.5-7.4	North Dakota Department of Transportation Safety Project Cultural Resource Review 1992-1994	Borchert, Jeani L.
006601	MS 6601	1995	NDM-106	134.5-135	Kadrmars, Lee & Jackson's Highway 1806 Improvement: A Class III Cultural Resource Inventory in Oliver County, North Dakota	Kulevsky, Andrea
006610	MS 6610	1995	NDM-106	59	Wold Engineering's Bridge 102-24 Replacement: A Class III Cultural Resource Inventory in Logan County, North Dakota	Kulevsky, Andrea
006631	MS 6631	1995	NDT-211	84-84.5	Interstate Engineering's Dickey County Rural Water Pipeline Phase 2, Plan B: A Class II & Class III Cultural Resource Inventory in Dickey & LaMoure Counties, North Dakota	Kulevsky, Andrea

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Map ID	Survey Number	Survey Date	Line Name	Mile Post	Survey Report Title	Survey Report Authors
006632	MS 6632	1995	NDT-211	65-65.5 & 60.5	Interstate Engineering's Plan B, Phase I Dickey County Rural Water Delivery System: A Class II & Class III Cultural Resource Inventory in Dickey County, North Dakota	Kulevsky, Andrea
006636	MS 6636	1996	NDM-106	109.7-111 & 112 & 113-114.3 & 118.2-118.8 & 121.7-124.5 & 128.3-129.1 & 130-132	Report of Findings From an Intensive Cultural Resource Inventory in Emmons, Burleigh and McLean Counties, Conducted on Portions of a Proposed Water Project for the Burleigh Water Users Cooperative with Addendum	(Larson, Thomas K. - Primary Author);(Penny, Dori M. - Contributing Author)
006817	MS 6817	1996	NDT-211	59	Addendum to Interstate Engineering's Dickey County Rural Water Pipeline Phase 2, Plan B: A Class II & Class III Cultural Resource Inventory in Dickey & LaMoure Counties, North Dakota	Stine, Edward
007012	MS 7012	1997	NDT-211	74.3	Dickey County Bridge 11-127-23.0 Replacement Project in Sections 28 and 33, T129N, R62W UW #1948	Klinner, Duane G.
007107	MS 7107	1998	NDT-211	52-55.5	West Oakes Test Area Cultural Resources Survey of Selected Lands in Dickey Co., ND UW #2000	Klinner, Duane G.
007196	MS 7196	1998	NDM-106	37-42	KEM Electric Distribution Line 1998 Cultural Resource Inventory in Emmons and McIntosh Co., ND	Christensen, Robert C.

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Map ID	Survey Number	Survey Date	Line Name	Mile Post	Survey Report Title	Survey Report Authors
007227	MS 7227	1998	NDL-322	10.3	A Class III Cultural Resource Inventory of the North Dakota Segment of the Alliance Pipeline (Milepost 0 to 323.87) Final Report	(Forsberg, Drew M. - Contributing Author);(Kulevsky, Andrea - Contributing Author);(Perkl, Bradley E. - Contributing Author);(Stine, Edward - Primary Author);(Trocki, Patricia - Contributing Author)
007266	MS 7266	1998	NDM-106	61.9-62.5 & 63.6 & 67.3 & 81.3 & 85.5	Results of Class II and Class III Cultural Resource Inventories for the BEK Communications Cooperative: The Hazelton Exchange in Emmons Co, ND	(Larson, Thomas K. - Contributing Author);(Penny, Dori M. - Contributing Author);(Rothwell, Sarah J. - Primary Author)
007268	MS 7268	1998	NDM-106	139	A Class III Cultural Resource Inventory of Both ROWs of ND Highway 25 From I-94 to Center, ND in Morton and Oliver Counties, ND NDDOT Project No. SS-1-025(007)000	Kinney, W. Jeffrey
007284	MS 7284	1998	NDL-324	9.8-10.8 & 5.5-7.8	Results of a Class II and Class III Cultural Resource Inventory for NDDOT Project Area SS-8-018(036)055 Cass County, ND	Larson, Thomas K.
007332	MS 7332	1999	NDT-211	86.5	Dickey County, North Dakota Bridge Replacement Project #'s BRC-1124(54) and CP-1124(99). A Class III Cultural Resource Inventory Report	Kinney, W. Jeffrey
007457	MS 7457	1999	NDM-106	80.3	A Class III Cultural Resource Inventory of Both ROW's of ND Highway 34 From Hazelton to Napoleon, ND in Emmons and Logan Counties, ND	Kinney, W. Jeffrey

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Map ID	Survey Number	Survey Date	Line Name	Mile Post	Survey Report Title	Survey Report Authors
007593	MS 7593	2000	NDM-106	140	Koch Gravel Pit: A Class III Cultural Resource Inventory, Oliver County, ND	Morrison, John G.
007648	MS 7648	2000	NDM-106	57.2	Class III Cultural Resource Inventory for One (1) Highway Project in South Central North Dakota, NDDOT Project Number NH-1013(010)200. (Highway 13 in Emmons and McIntosh Counties).	Kinney, W. Jeffrey
007831	MS 7831	2001	NDM-106	80.1	Voller Borrow: A Class III Cultural Resource Inventory, Emmons County, ND	Bluemle, William J.
007879	MS 7879	2001	NDT-211	2.3	Class III Cultural Resource Inventory For NDDOT BRO-39(10), a Bridge Replacement Project, Richland County Bridge #39-110-30.0 (32RI738).	Kinney, W. Jeffrey
007998	MS 7998	2001	NDM-106	125	Site Acquisition Consultants: Class III Cultural Resources Inventories of Eleven Tower Locations Along North Dakota Highways 2 and 83	Olson, Byron L.
008045	MS 8045	2001	NDM-106	131.7	Plains Village Site Evaluations Near Bismarck, North Dakota and Inventory of Selected Missouri River Terraces Burleigh, Morton and Oliver Co., ND	Metcalf, Michael D.
008065	MS 8065	2001	NDT-211	2.4	A Richland County Borrow Area For NDDOT Project Number BRO-39(010). A Class III Cultural Resource Report	Kinney, W. Jeffrey

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Map ID	Survey Number	Survey Date	Line Name	Mile Post	Survey Report Title	Survey Report Authors
008071	MS 8071	2001	NDM-106	85.5	NDDOT Highway Improvement Project NH-1-083(063)041 Along Highway 83 From I-94 to Hazelton, Burleigh and Emmons Co., ND: A Class III Cultural Resources Inventory	Olson, Byron L.
008072	MS 8072	2001	NDL-324	1.5	NDDOT I-94 Highway Improvement Projects SIM-8-094(037)323 and IM-8-094(035)323 Along I-94 From Near Wheatland to Casselton, Cass Co., ND: A Class III Cultural Resources Inventory	Olson, Byron L.
008075	MS 8075	2001	NDM-106	155	Results of a Class III Cultural Resources Inventory of a BNI Coal Additional Permit Area (P.O. Number 011475) in Oliver Co., ND UW #2290	Wermers, Greg L.
008319	MS 8319	2002	NDM-106	59, 114	BEK Kintyre Exchange Upgrade Class II Cultural Resources Inventory, Burleigh, Emmons, McIntosh and Logan Counties, ND	Olson, Byron L.
008322	MS 8322	2002	NDL-322	5.8-10.3	A Class III Cultural Resource Survey of the White Rock Pipeline, LLC, Roberts County, South Dakota and Richland County, North Dakota	Murdy, Carson N
008371	MS 8371	2002	NDM-106	105-108.5	Cultural Resource Investigations Fiber Optic Cable Installation Along Four Segments of Transmission Line: Glenham - Bismarck, New Underwood - Rapid City, Philip - New Underwood, Yankton - Gavins Point Burleigh, Emmons Co., ND, SD	(Hall, Daniel S. - Primary Author);(Knudsen, Susan L. - Contributing Author)

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Map ID	Survey Number	Survey Date	Line Name	Mile Post	Survey Report Title	Survey Report Authors
008496	MS 8496	2003	NDL-324	22.5	Proposed Site of the ND3 Barrie Alt 1 Tower Site. A Class III Cultural Resource Inventory in Richland Co., ND	Kinney, W. Jeffrey
008751	MS 8751	2003	NDL-324	19.7	Highway 46: A Class III Cultural Resource Inventory, Cass, Ransom and Richland Counties, ND	Bluemle, William J.
008877	MS 8877	2004	NDL-324	19-19.6	The 03-017-059 Floodwater Dam Project Cultural Resources Inventory Cass Co., ND	Springer, Karri L.
008888	MS 8888	2002	NDM-106	157.5-158	Class III Cultural Resource Inventory, Highway 31 Junction I-94 North To Junction 200A: Morton, Oliver and Mercer Co., ND NDDOT Project Number: SS-1-031-(010)078	(Kulevsky, Andrea - Contributing Author);(Stine, Edward - Primary Author)
008975	MS 8975	2004	NDL-324	1.4	Highway 10 Survey: A Class III Cultural Resources Inventory in Cass Co., ND	Bluemle, William J.
009070	MS 9070	2000	NDM-106	135.3	Missouri West Water Systems 2000 Construction Season Miscellaneous Lateral Lines Cultural Resources Inventories, Morton Co., ND	Olson, Byron L.
009093	MS 9093	1998	NDT-211	46.5 & 44.3	Results of a Class II and III Cultural Resource Inventory for Ransom-Sargent Water Users, Inc., Barnes, Cass, Dickey, LaMoure, Ransom & Sargent Co., ND Vol I & II	(Larson, Thomas K. - Primary Author);(Penny, Dori M. - Contributing Author);(Rothwell, Sarah J. - Contributing Author)

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Map ID	Survey Number	Survey Date	Line Name	Mile Post	Survey Report Title	Survey Report Authors
009248	MS 9248	2005	NDL-323	4	County Highway 81, Richland County, North Dakota: A Class III Cultural Resource Inventory	Bleier, Amy C.
009555	MS 9555	2005	MNL-321	25.7	Highway 127: A Class III Cultural Resource Inventory in Richland Co., ND	Stine, Edward
009686	MS 9686	2006	NDT-211	73.8	Ellendale Bridge: A Class III Cultural Resource Inventory, Dickey Co., ND	Morrison, John G
009715	MS 9715	2006	NDM-106	110.2-110.5 & 119.7	Capital Electric Cooperative's Four Year Construction Plan: A Class II and Class III Cultural Resources Inventory in Burleigh and Sheridan Co., ND Addendum A	Stine, Edward
009735	MS 9735	2006	NDM-106	59.8-60.2	The Wald Survey, Logan County ND: A Class III Cultural Resource Inventory	Burns, Christina G.
009737	MS 9737	2006	NDT-211	43	A Cultural Resource Inventory of the Proposed Cogswell Tap Access Road, Sargent Co., ND	Kluth, David W.
009903	MS 9903	2006	NDT-211	86	A Level III Cultural Resource Letter Report for an Emergency Conservation Program (ECP) Pipeline and Tank Project T129N; R65W; Sec 34 Dickey Co., ND	Vaillancourt, Dana R.

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Map ID	Survey Number	Survey Date	Line Name	Mile Post	Survey Report Title	Survey Report Authors
009969	MS 9969	2006	NDT-211	47.8	Keystone Pipeline Project: Class I, II, and III Cultural Resource Investigations in Eastern North Dakota, Volumes 1 & 2 & Addendum 1 (2007) & Addendum 2 (2008)	(Barth, Aaron L. - Contributing Author);(Bleier, Amy C. - Primary Author);(Kulevsky, Andrea - Contributing Author);(Mayer, James - Contributing Author);(McFaul, Michael L. - Contributing Author);(Stine, Edward - Contributing Author)
009983	MS 9983	2007	NDT-211	73.7	Mueller Borrow: A Class III Cultural Resource Inventory in Dickey Co., ND	Stine, Edward
010068	MS 10068	2006	NDM-106	124.7-125.7 & 127.8	South Central Regional Water District Main Transmission Pipeline Cultural Resources Inventories, Burleigh and McLean Counties, ND	Kordecki, Cynthia
010107	MS 10107	2007	NDT-211	74.5	The Pahl Material Source Area: A Class III Cultural Resource Inventory, Dickey Co., ND	Burns, Christina G.
010185	MS 10185	2007	NDL-324	0	Cass Rural Water Contract 2007-1 (effluent line): Class I and Class III Cultural Resource Inventory in Cass Co., ND	Kinney, W. Jeffrey
010188	MS 10188	2007	NDM-106	132	Geophysical Survey and Test Excavation During 2006 at Larson Village, Burleigh Co., ND	(Ahler, Stanley A. - Contributing Author);(Crawford, George T. - Contributing Author);(Falk, Carl R. - Contributing Author);(Kvamme, Kenneth L. - Contributing Author);(Madden, Stacey - Contributing Author);(Mitchell, Mark

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Map ID	Survey Number	Survey Date	Line Name	Mile Post	Survey Report Title	Survey Report Authors
						D. - Primary Author);(Nickel, Ro
010192	MS 10192	2006	NDM-106	132	Report of Geophysical Investigations at the Larson Site (32BL9), North Dakota, Burleigh Co., ND	Kvamme, Kenneth L.
010223	MS 10223	2007	NDL-324	0	Class III Archaeological Inventory for the Tharaldson Ethanol Plant 1 Project, Casselton, Cass Co., ND	Vermeer, Andrea C.
010293	MS 10293	2007	NDM-106	124.6	2007 Highway 83 Survey: A Class III Cultural Resource Inventory of the Road Right-of-Way Between Bismarck and Wilton in Burleigh Co., ND	Stine, Edward
010355	MS 10355	2008	NDM-106	126-127 & 128.4-130.1	South Central Regional Water District 2007 Class I-II-III Cultural Resources Inventories, Burleigh and McLean Counties, ND	(Jackson, Michael A. - Contributing Author);(Kordecki, Cynthia - Primary Author)
010402	MS 10402	2006	NDT-211	12.3-13	Bridge #135-06.0: A Class III Cultural Resource Inventory for a Proposed Bridge Replacement in Sargent Co., ND	Hiemstra, Damita J.
010441	MS 10441	2008	NDT-211	43	Addendum 12 to Keystone Pipeline Project: Class I, II, and III Cultural Resource Investigations in Eastern North Dakota Centerline and Access Roads, Barnes, Nelson, Ransom, Sargent, & Walsh Counties	(Kulevsky, Andrea - Contributing Author);(Stine, Edward - Primary Author)

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Map ID	Survey Number	Survey Date	Line Name	Mile Post	Survey Report Title	Survey Report Authors
010446	MS 10446	2008	NDM-106	146.5-147.7	BNI Coal: A Cultural Resource Inventory of 7,680 Acres in Area C in Oliver Co., ND	Boughton, John M.
010602	MS 10602	2008	NDM-106	132	Archaeological and Geophysical Investigations During 2007 at Larson Village, Burleigh Co., ND	(Kvamme, Kenneth L. - Contributing Author);(Mitchell, Mark D. - Primary Author);(Picha, Paul R. - Contributing Author);(Swenson, Fern E. - Contributing Author)
010654	MS 10654	2008	NDL-324	25.5	Class III Cultural Resource Survey, IE-017 Stockpile and Material Source Area, Richland Co., ND	Michlovic, Michael G.
010689	MS 10689	2008	NDT-211	44.5	Class II and III Cultural Resource Inventory Report for Electric Coop's Forman to Ludden 115kV Transmission Line and Ludden 115 kV Substation, Sargent Co., ND	Kinney, W. Jeffrey
010937	MS 10937	2009	NDM-106	126.3	Burleigh County Highway Department/FEMA Judy Jo Ranch Gravel Pit, ND	Bluemle, William J.
010938	MS 10938	2009	NDM-106	116	Burleigh County Highway Department/FEMA Anderson Gravel Pit, ND	Bluemle, William J.
010959	MS 10959	2009	NDM-106	64	Six FEMA Material Source Areas in Emmons Co., ND: A Class III Cultural Resource Inventory	Burns, Wade K.

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Map ID	Survey Number	Survey Date	Line Name	Mile Post	Survey Report Title	Survey Report Authors
011020	MS 11020	2009	NDM-106	114.5-116.5 & 131.4	Capital Electric Cooperative's Rural Utility Service Project #'s 258, 371, 385A and 813: A Class III Cultural Resource Inventory of Four Segments of Proposed Buried Power Cable in Burleigh Co., ND	(Banks, Kimball M. - Contributing Author);(Engel, Damita J. - Primary Author);(Snortland, Signe - Contributing Author)
011063	MS 11063	2009	NDM-106	150	North Dakota Forest Service 2009 Living Snow Fence Survey: A Class III Cultural Resource Inventory for Proposed Tree Planting Sites in Adams, Benson, Mercer, Oliver, Steele, & Walsh Counties, ND	(Banks, Kimball M. - Contributing Author);(Engel, Damita J. - Primary Author)
011095	MS 11095	2009	NDM-106	145.5-146	Doll and Pazdernik Borrow: A Class III Cultural Resource Inventory of Two Borrow Areas in Oliver Co., ND	(Engel, Damita J. - Primary Author)
011170	MS 11170	2009	NDM-106	122.4 & 126.7	Cultural Resources Inventory of the BEK Communications Cooperative Rural Burleigh County T3.0 BER Exchange Buried Cables Project T137N-T142N, R78W-R81W Burleigh Co., ND	Carpenter, Mark
011184	MS 11184	2009	NDL-324	5-7.4	Casselton to Kindred Main Transmission Line: Class II and III Cultural Resource Inventory, Cass and Richland Co., ND	Morrison, John G.
011203	MS 11203	2009	NDM-106	100-102.5	Highway 1804 HES-1-804(039)61: PCN 18023: A Class III Cultural Resource Inventory, Burleigh Co., ND	O'Donnchada, Brian
011328	MS 11328	2010	NDM-106	135	ND Highway 1806, Two Structural Replacements at Mile Points 84.748 and 85.052, Class III Cultural Resource Inventory, Morton Co., ND	Barbie, Valerie J.

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Map ID	Survey Number	Survey Date	Line Name	Mile Post	Survey Report Title	Survey Report Authors
011462	MS 11462	2010	NDM-106	146.5-150.5	BNI Coal: Cultural Resource Investigations in Mine Area C in Oliver Co., ND	(Broedel, Rebecca - Contributing Author);(Peterson, Lynelle A. - Primary Author)
011478	MS 11478	2010	NDM-106	115.8	A Class III Cultural Resource Inventory of the Bismarck Repeater Communications Tower Facility Site in Burleigh Co., ND	Irwin, Jeffrey D.
011607	MS 11607	2010	NDM-106	155	230KV Transmission Right-of-Way: A Class III Cultural Resource Inventory in Oliver Co., ND	(Burns, Christina G. - Contributing Author);(Jakel, Gwen - Primary Author)
011626	MS 11626	2010	NDM-106	123.3	Capital Electric Cooperative's Segment of Distribution Line: A Class III Cultural Resource Inventory in Burleigh Co., ND	Green, Debra K.
011861	MS 11861	2010	NDT-211	29.4 & 14.3 & 12.2	Segment 5 Water Pipeline for the Arsenic Trioxide Superfund Site: A Class III Cultural Resource Inventory in Richland and Sargent Counties, ND	Klinner, Duane G.
011982	MS 11982	2011	NDM-106	146-146.5	A Class III Cultural Resources Investigation Oliver III Transmission Line Morton and Oliver Counties, ND	(Eigenberger, Erika L. - Contributing Author);(Holven, Adam C. - Primary Author)
011986	MS 11986	2011	NDT-211	60.5	A Class III Cultural Resource Investigation of the Proposed Verizon Wireless Great Plains ND03 Ludden Cell Tower, Dickey Co., ND	Blondo, Steven J.

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Map ID	Survey Number	Survey Date	Line Name	Mile Post	Survey Report Title	Survey Report Authors
012041	MS 12041	2011	NDM-106	157.5-158	Center SA Main Transmission Line 2010 Class III Cultural Resources Inventory Southwest Water Pipeline Project Oliver and Morton Co., ND	(Jackson, Michael A. - Primary Author);(Lonski, Megan J. - Contributing Author);(Toom, Dennis L. - Contributing Author)
012146	MS 12146	2011	NDM-106	146.5-151	BNI Coal: A Class III Cultural Resource Inventory of 1,600 Acres and Testing of 13 Prehistoric Sites in Oliver Co., ND	(Fandrich, Blain - Contributing Author);(Martinson, Renea D. - Primary Author)
012255	MS 12255	2011	NDM-106	155-155.5	Class III Archaeological Resource Inventory for a proposed 75.9 megawatt wind and associated transmission line project in Oliver and Morton Counties, ND.	(Eigenberger, Dylan J. - Contributing Author);(Lundberg, Melissa - Contributing Author);(Sabatke, Steven W. - Primary Author)
012257	MS 12257	2011	NDM-106	88-89.3	BEK Communication Buried Fiber Optic Line: A Class II and III Cultural Resource Inventory in Emmons Co., ND. Vol 1: Hazelton Exchange.	Burns, Christina G.
012269	MS 12269	2011	NDM-106	147.5; 146.5-148	BNI Coal: Data Recovery at Three Prehistoric Archaeological Sites in Oliver Co., ND.	(Peterson, Lynelle A. - Primary Author);(Thomas, Jennifer L. - Contributing Author)
012318	MS 12318	2011	NDM-106	58.3	BEK Communication Buried Fiber Optic Line: A Class II and III Cultural Resource Inventory in Emmons, Logan, McIntosh, Kidder and Burleigh Counties, ND. Vol 2: Kintyre Exchange.	Burns, Christina G.
012352	MS 12352	2010	NDM-106	50.2	BEK Communication Buried Fiber Optic Line: A Class II and Class III Cultural Resource Inventory, Emmons and McIntosh Counties, ND.	Burns, Christina G.

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Map ID	Survey Number	Survey Date	Line Name	Mile Post	Survey Report Title	Survey Report Authors
012367	MS 12367	2011	NDM-106	57	BEK Communication Buried Fiber Optic Line: A Class II and Class III Cultural Resource Inventory in Emmons and McIntosh Counties, ND. Vol III: Linton Exchange.	Burns, Christina G.
012419	MS 12419	2011	NDM-106	58.4	Bridge 15-135-25.0: A Class III Cultural Resource Inventory, Emmons Co., ND.	Klinner, Duane G.
012495	MS 12495	2011	NDM-106	95.5-102.7	Sterling and McKenzie/Menoken Exchanges for BEK Communication Buried Fiber Optic Line: A Class II and Class III Cultural Resource Inventory, Emmons, Burleigh, and Kidder Counties, ND.	Burns, Christina G.
012792	MS 12792	2011	NDL-323	8.5	NDDOT Project SIM-8-029(125)000, PCN 18368, I-29 State Line to ND Highway 13: A Class III Cultural Resource Investigation in Richland County, North Dakota	Klinner, Duane G.
013061	MS 13061	2012	NDM-106	116	Cultural Resources Survey Report Interstate 94: East Bismarck Interchange East to Sterling Burleigh County, North Dakota	(Crosser, Ian - Contributing Author);(Larmore, Sean - Contributing Author);(Robbins, Jesse - Primary Author)
013083	MS 13083	2012	NDM-106	58.4 & 86.3 & 88.7 & 89-89.5	Northern Emmons County Phase 3 Class II-III Cultural Resources Inventories South Central Regional Water District 2011 Emmons, Logan, and McIntosh Counties, North Dakota & Addendum	(Jackson, Michael A. - Primary Author);(Rokke, Nathan J. - Contributing Author);(Toom, Dennis L. - Contributing Author)
013225	MS 13225	2012	NDM-106	126.3-126.7	North Dakota Forest Service's Troy Nelson Shelter Belt: A Class III Cultural Resource Inventory in Burleigh County, North Dakota	Bailly, Danielle

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Map ID	Survey Number	Survey Date	Line Name	Mile Post	Survey Report Title	Survey Report Authors
013597	MS 13597	2012	NDM-106	85.6 & 88-89.5	2012 Survey Report Addendum: Northern Emmons County Phase 3 Supplemental Class II-III Rural Distribution Line Surveys, South Central Regional Water District, Emmons, Logan, and McIntosh Counties, North Dakota. SCWD Contract No. 2012-2	Toom, Dennis L.
013661	MS 13661	2012	NDM-106	146.5	BNI Coal: Data Recovery Investigations Conducted at 32OL551 and 32OL552 in Oliver County, North Dakota	Peterson, Lynelle A.
014072	MS 14072	2013	NDM-106	56	McIntosh County Main Transmission Line and McIntosh County Tank Location 2013 Class III Cultural Resources Inventory, Logan-McIntosh Counties Expansion Project, South Central Regional Water District, McIntosh County, North Dakota: SCWD Contract No. 2013-	(Jackson, Michael A. - Primary Author);(Toom, Dennis L. - Contributing Author)
014223	MS 14223	2013	NDM-106	159-166.5	Bison 4 Wind Energy Center: A Class III Cultural Resource Inventory, Oliver, Morton, and Mercer Counties, North Dakota	(Burns, Christina G. - Primary Author)
014397	MS 14397	2013	NDM-106	145.5-146.5	Minnkota Power Cooperative's Center to Mandan 230kV Transmission Line: A Class III Cultural Resource Inventory in Morton and Oliver Counties, North Dakota	Engel, Damita J.
014407	MS 14407	2013	NDM-106	68.7	Logan-McIntosh-Emmons Phase 4 Expansion Project Rural Distribution Lines 2013 Class II-III Cultural Resources Inventories, South Central Regional Water District, North Dakota	(Jackson, Carrie F. - Contributing Author);(Jackson, Michael A. - Primary Author);(Rokke, Nathan J. - Contributing Author);(Toom, Dennis L. - Contributing

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Map ID	Survey Number	Survey Date	Line Name	Mile Post	Survey Report Title	Survey Report Authors
						Author);(Whitman, Madisson L. - Contributing Author)
014424	MS 14424	2013	NDM-106	161-166.5	Addendum to Bison 4 Wind Energy Center: A Class III Intensive Cultural Resources Inventory in Mercer and Oliver Counties, North Dakota	Reiners, Lindsey
014483	MS 14483	2013	NDL-323	4.2-4.6	Culvert Replacement for Bridge #39-126-30.0 and Removal of Bridge #39-126-31.0 Survey: A Class III Intensive Cultural Resource Inventory in Richland County, North Dakota	Brooks, Brittany
014585	MS 14585	2013	NDM-106	68.6	CNOA-1520(053) Regraveling and Selected Grading Survey: A Class III Intensive Cultural Resource Inventory in Emmons County, North Dakota	Brooks, Brittany
014659	MS 14659	2013	NDM-106	117.1	ND15822-B/BISM Hillcrest Communications Tower: A Class III Intensive Resource Inventory in Burleigh County, North Dakota	Reiners, Lindsey
014861	MS 14861	2013	NDM-106	37.5-38.5	Haas Rockpiles Material Source Areas: A Class III Intensive Cultural Resource Inventory in McIntosh County, North Dakota	Person, Amanda C.
014864	MS 14864	2014	NDM-106	25-29	Haas Rockpiles and Stockpiles Material Source Areas: A Class III Intensive Cultural Resource Inventory in Emmons, Logan and McIntosh Counties, North Dakota	(Brooks, Brittany - Primary Author);(Person, Amanda C. - Contributing Author)

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Map ID	Survey Number	Survey Date	Line Name	Mile Post	Survey Report Title	Survey Report Authors
014883	MS 14883	2013	NDM-106	160	Maier Expansion Material Source Area: A Class III Intensive Cultural Resource Inventory in Oliver County, North Dakota	Person, Amanda C.
014895	MS 14895	2013	NDM-106	160	Maier Material Source Area: A Class III Intensive Cultural Resource Inventory in Oliver County, North Dakota	Person, Amanda C.
014976	MS 14976	2014	NDM-106	160-162.5	2013 Survey Report Addendum: Center Service Area Rural Distribution Lines Supplemental Class II-III Cultural Resources Inventory Southwest Water Pipeline Project Mercer, Morton, and Oliver Counties, North Dakota SWPP Contract 7-9E	(Jackson, Michael A. - Primary Author);(Rokke, Nathan J. - Contributing Author);(Toom, Dennis L. - Contributing Author)
015143	MS 15143	2013	NDM-106	139-150.5	Center Service Area Phase 2 Rural Distribution Lines: 2012 Class II-III Cultural Resources Inventories Southwest Water Pipeline Project Oliver, Mercer, and Morton Counties, North Dakota	(Jackson, Michael A. - Primary Author);(Lonski, Megan J. - Contributing Author);(Toom, Dennis L. - Contributing Author);(Whitman, Madisson L. - Contributing Author)
015191	MS 15191	2014	NDT-211	60.8	North Dakota Highway 11, Bridge Repair and Other Work, NDDOT 2-011(035)83, PCN 20280: A Class III Cultural Resource Inventory in Dickey County, North Dakota	(Barth, Aaron L. - Contributing Author);(Klinner, Duane G. - Primary Author)
015219	MS 15219	2014	NDL-323	4.4	Class III Cultural Resource Inventory, Borrow Pit, RI-1039, Richland County, North Dakota	(Holley, George R. - Primary Author);(Michlovic, Michael G. - Contributing Author)

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Map ID	Survey Number	Survey Date	Line Name	Mile Post	Survey Report Title	Survey Report Authors
015347	MS 15347	2014	NDM-106	150-155	2013 Survey Report Addendum: Center Service Area Rural Distribution Lines Supplemental Class II-III Cultural Resources Inventory, Southwest Water Pipeline Project, Oliver, Mercer, and Morton Counties, North Dakota SWPP Contract 7-9F	(Jackson, Michael A. - Primary Author);(Rokke, Nathan J. - Contributing Author);(Toom, Dennis L. - Contributing Author)
015348	MS 15348	2014	NDM-106	62-62.5 & 86.1	2013 Survey Report Addendum: Supplemental Rural Distribution Lines 2011-2013 Class II-III Cultural Resources Inventory, Emmons County Expansion Project, South Central Regional Water District, Emmons and Logan Counties, North Dakota SCWD Contract Nos. 201	(Jackson, Michael A. - Primary Author);(Rokke, Nathan J. - Contributing Author);(Toom, Dennis L. - Contributing Author);(Whitman, Madisson L. - Contributing Author)
015364	MS 15364	2014	NDL-324	19-19.2	14-017-010 Windbreak Renovation and Tree Planting Project Cultural Resources Inventory, Cass County, North Dakota	Springer, Karri L.
015493	MS 15493	2014	NDM-106	123.6	Phase I Cultural Resources Investigation of Proposed BIS Burnt Creek (Ensite 20753) Telecommunications Tower Project Area, Bismarck, Burleigh County, North Dakota	(Allen, Danna - Contributing Author);(Cannon, Tara - Primary Author)
015640	MS 15640	2014	NDT-211	12.8	Interstate Engineering of Wahpeton, North Dakota's Sargent County Bridge Survey: A Class III Cultural Resource Inventory NDDOT Project # BRO-0041(012) PCN 20039	Engel, Damita J.
015738	MS 15738	2014	NDM-106	54.4	KEM Electric Cooperative Midway URD Replacement, RUS 352: A Class II and Class III Cultural Resource Inventory in McIntosh County, North Dakota	Bauschard, Philip

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Map ID	Survey Number	Survey Date	Line Name	Mile Post	Survey Report Title	Survey Report Authors
015771	MS 15771	2015	NDM-106	134-145	Addendum to Minnkota Power Cooperative's Center to Mandan 230 kV Transmission Line: A Class III Cultural Resource Inventory in Morton and Oliver Counties, North Dakota	Bluemle, William J.
015855	MS 15855	2015	NDM-106	25.5-32 & 40-40.5 & 45.3 & 49.9-50.3	2014 Survey Report Addendum: Logan-McIntosh-Emmons Expansion Area 2014 Supplemental Class II-III Rural Distribution Lines Cultural Resources Inventory, South Central Regional Water District, Emmons, Logan, and McIntosh Counties, North Dakota. SCWD	Jackson, Michael A.
015864	MS 15864	2015	NDT-211	74.7-78.5	Class III Intensive Cultural Resources Inventory: Historic Structures Inventory and Evaluation, Big Stone South to Ellendale 345 kV Transmission Line Project, Dickey County, North Dakota to the South Dakota Border	Palmer, Kevin
015953	MS 15953	2015	NDT-211	75.5-80	Class III Intensive Archaeological and Traditional Cultural Property Resources Inventory for the Big Stone South to Ellendale 345 kV Transmission Line Project, Dickey County, North Dakota to the South Dakota border	HDR
016535	MS 16535	2014	NDT-211	12.8-13.2	Speich Material Source Area: A Class III Intensive Cultural Resource Inventory in Sargent County, North Dakota	(Burns, Wade K. - Contributing Author);(Friend, Tara - Primary Author)

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Map ID	Survey Number	Survey Date	Line Name	Mile Post	Survey Report Title	Survey Report Authors
016659	MS 16659	2016	NDM-106	144-144.5	Class III Cultural Resource Inventory, Oliver III Transmission Line, Oliver and Morton Counties, North Dakota	(Holven, Adam C. - Primary Author);(McNamara, Britt - Contributing Author);(Reichel, Jason A. - Contributing Author)
016685	MS 16685	2016	NDM-106	141-149.5	Oliver III Wind Energy Center Class III Historic Architectural Resources Survey, Morton and Oliver Counties, North Dakota	(Nelson, Sara - Primary Author);(Pearson, Marjorie - Contributing Author);(Schmidt, Andrew J. - Contributing Author)
016714	MS 16714	2016	NDM-106	144-144.5	Addendum to: Class III Cultural Resource Inventory, Oliver III Transmission line, Oliver and Morton Counties, North Dakota	(Holven, Adam C. - Primary Author);(McNamara, Britt - Contributing Author);(Reichel, Jason A. - Contributing Author)
016923	MS 16923	2016	NDM-106	97.5	A Class I and Class III Cultural Resource Inventory of Six MET Tower Locations, Burleigh and Emmons Counties, North Dakota	(Harding, William - Contributing Author);(Schleicher, Jolene - Primary Author)
016996	MS 16996	2016	NDM-106	127	A Class III Cultural Resource Inventory for the Chris Goehring Tree Rows in Burleigh County, North Dakota	Brooks, Brittany
017092	MS 17092	2016	NDM-106	165.5-168	2015 Survey Report Addendum: Center Service Area Rural Distribution Lines Supplemental Class II and Class III Cultural Resources Inventories for the Southwest Water Pipeline Project, Oliver, Mercer, and Morton Counties, North Dakota, SWPP Contract 7-9E	(Cox, Matthew A. - Contributing Author);(Kromarek, Nicole - Primary Author)

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Map ID	Survey Number	Survey Date	Line Name	Mile Post	Survey Report Title	Survey Report Authors
017116	MS 17116	2014	NDT-211	22-23	Riley Bros Construction, Inc. 2013 Sargent County Material Source Areas: A Class III Intensive Cultural Resource Inventories in Sargent County, North Dakota	Brooks, Brittany
017189	MS 17189	2015	NDM-106	161	Knife River Corporation 2014 Rockpiles: Class III Intensive Cultural Resource Inventories in Oliver, and Williams Counties, North Dakota	Domine, Andrew
017220	MS 17220	2017	NDL-324	46-49	South East Water User District System Wide Expansion Project: Class II and Class III Cultural Resource Inventory, Dickey, LaMoure, Logan, Ransom, Richland, and Sargent Counties, North Dakota	(Morrison, John G. - Contributing Author);(Rohe, Chris M. - Primary Author)
017264	MS 17264	2016	NDM-106	153-155.5	2015 Survey Report Addendum: Center Service Area Phase 2 Rural Distribution Lines Supplemental Class II and Class III Cultural Resources Inventories for the Southwest Water Pipeline Project, Oliver Mercer, and Morton Counties, North Dakota SWPP Contract	Cox, Matthew A.
017266	MS 17266	2017	NDM-106	135-135.5 & 139 & 141-145.5	Morton and Oliver Counties Community Connect Grant Environmental Assessment Cultural Resource Segment: A Class II and III Cultural Resources Inventory in Morton, Oliver and Burleigh Counties, North Dakota	Bohner, Catherine
017274	MS 17274	2017	NDM-106	115.5-116	Class III Intensive Architectural History Survey of the Proposed WBI Energy Valley Expansion Project in Cass County, Regulator Station Upgrades in Barnes County, and Town Border Station Upgrades in Stutsman and Burleigh Counties, North Dakota	Pratt, Daniel R.

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Map ID	Survey Number	Survey Date	Line Name	Mile Post	Survey Report Title	Survey Report Authors
017286	MS 17286	2017	NDL-324	19.3-19.8	Class III Cultural Resource Inventories for the Wm. D. Scepaniak, Inc. 2016 Material Source Areas in Ransom, Richland, Slope, LaMoure, Cass, McIntosh, and Adams Counties, North Dakota	(Brooks, Brittany - Primary Author);(Friend, Tara - Contributing Author)
017359	MS 17359	2017	NDL-324	16.4	City of Leonard Water Supply: Class II and III Cultural Resource Inventories, Cass, Ransom, and Richland Counties, North Dakota	Olson, Kaelyn M.
017382	MS 17382	2017	NDM-106	117	A Class III Intensive Cultural Resource Inventory for the 43rd Avenue Improvements Project in Burleigh County, North Dakota	Brooks, Brittany
017421	MS 17421	2017	NDL-324	49	Twelve Construction Work Plan Projects 2017 Class III Cultural Resources Inventory, Dakota Valley Electric Cooperative, Dickey, McIntosh, Richland, and Sargent Counties, North Dakota	Jackson, Michael A.
017422	MS 17422	2017	NDL-323	12-12.5	A Class III Cultural Resource Inventory for the Lugert Bank Stabilization in Richland County, North Dakota	Brooks, Brittany
017542	MS 17542	2017	NDM-106	144.5-148.5	BNI Coal: A Class III Cultural Resource Inventory of a 4.7 mile segment of 29th St. SW and 31st Ave SW, including a proposed reroute, in Oliver County, North Dakota	Peterson, Lynelle A.
017600	MS 17600	2017	NDM-106	113-114.5	Gibbs and Apple Creek Separations PCN 21854 and 21853, NDDOT Project #'s 1-094(192)164 and 1-094(191)166; Class III Cultural Resource Inventory, Burleigh County, North Dakota	Borchert, Jeani L.

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Map ID	Survey Number	Survey Date	Line Name	Mile Post	Survey Report Title	Survey Report Authors
017624	MS 17624	2017	NDM-106	95.3-99.3	A Class I and Class III Cultural Resource Inventory and Visual Analysis of the Burleigh Wind Project, Burleigh and Emmons Counties, North Dakota	Schleicher, Jolene
017785	MS 17785	2017	NDL-324	10.2-10.5	ND-18 Maple River Structure Repair Project; 8-018(088)064: PCN 21746: A Class III Cultural Resource Inventory in Cass County, North Dakota	Hull, Matthew
017820	MS 17820	2018	NDM-106	52.8	South Central Water District 2015-1 North Logan - Kidder County Pipeline (May/June 2017 Additional Changes): Class II and Class III Cultural Resource Inventories, Kidder, Logan, and McIntosh Counties, North Dakota	(Glaab, Rigden A. - Primary Author);(Olson, Kaelyn M. - Contributing Author)
017838	MS 17838	2018	NDM-106	135-136	An Addendum to Morton and Oliver Counties Community Connect Grant Environmental Assessment Cultural Resource Segment: 2017 Class III Cultural Resource Inventory in Morton and Oliver Counties, North Dakota	West, Katherine
018106	MS 18106	2018	NDM-106	150.5-151.5	BNI Coal Inventory and Testing of Sites withing Section 14 of T141N R84W, Oliver County, North Dakota	(Peterson, Lynelle A. - Contributing Author);(Wagers, Scott J. - Primary Author)
018123	MS 18123	2018	NDM-106	151-153	BNI Coal: Cultural Inventory and Site Testing in Sections 11, 14, 15, 16, 22 and 23 of T141N R84W, Oliver County, North Dakota	(Fandrich, Blain - Primary Author);(Peterson, Lynelle A. - Contributing Author);(Wagers, Scott J. - Contributing Author)

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Map ID	Survey Number	Survey Date	Line Name	Mile Post	Survey Report Title	Survey Report Authors
018146	MS 18146	2018	NDM-106	65.4-65.8 & 67.8-73.3	Class III: Intensive Cultural Resource Survey for the Emmons-Logan Wind Energy Center in Emmons and Logan Counties, North Dakota	(Bender, Marcia L. - Contributing Author);(Eiceman, Thomas - Contributing Author);(Healy, Bridget - Contributing Author);(Huling, Christina - Contributing Author);(McCarthy, Melinda - Primary Author);(Perry, Kaleigh - Contributing Author)
018325	MS 18325	2019	NDL-324	10.3	Class III Cultural Resource Inventories for the Guthmiller Earthmoving, Inc. 2018 Material Source Areas in Cass and Stutsman Counties, North Dakota	Atkinson, Alex
018382	MS 18382	2019	NDM-106	57.3	AT&TMOBILITY, LLC'S WISHEK WEST (NDL02908) TELECOMMUNICATIONS FACILITY: A CLASS III CULTURAL RESOURCE INVENTORY AND VISUAL IMPACT ASSESSMENT IN EMMONS COUNTY, NORTH DAKOTA	Meens, Daan
018396	MS 18396	2019	NDM-106	70.5	Emmons-Logan Wind Energy Center Turbine and Access Road Addendum: A Class III Intensive Cultural Resource Survey in Emmons and Logan Counties, North Dakota	(Bender, Marcia L. - Contributing Author);(Huling, Christina - Contributing Author);(McCarthy, Mary F. - Primary Author);(Neumiller, Alex - Contributing Author)
018424	MS 18424	2018	NDM-106	66.8 & 67.3 & 74.5	A Class III Architectural Survey – Emmons-Logan Wind Energy Center in Emmons and Logan Counties, North Dakota	(Bender, Marcia L. - Contributing Author);(Eiceman, Thomas - Contributing Author);(Johnson, Kirsten - Contributing Author);(McCarthy, Melinda - Primary Author)

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Map ID	Survey Number	Survey Date	Line Name	Mile Post	Survey Report Title	Survey Report Authors
018438	MS 18438	2015	NDM-106	132	Archaeological Mitigation at Larson Village 32BL09: A Fortified Earthlodge Plains Village Site in Burleigh County, North Dakota	(Banks, Kimball M. - Contributing Author);(Green, Debra K. - Primary Author)
018517	MS 18517	2019	NDM-106	134-135	Mor-Gran-Sou’s Electric Line: A Class III Cultural Resources Inventory in Morton and Oliver Counties, North Dakota	Meens, Daan
018538	MS 18538	2019	NDT-211	73.8	Dickey County Roads 8 & 14 Erosion Repair & Riprap; HEC1100(021); PCN 22431: A Class III Cultural Resource Inventory In Dickey County, North Dakota	Hull, Matthew
018564	MS 18564	2019	NDM-106	161.5	19.ND.PFW.114 Duane Maier Pipeline System Project Cultural Resources Inventory, Oliver County, North Dakota	Springer, Karri L.
018640	MS 18640	2011	NDM-106	15.7	Cultural Resource Investigations of a Burial (32OL590) in Oliver County, North Dakota	Peterson, Lynelle A.
018947	MS 18947	2020	NDM-106	59	Class III Survey Vetter Livestock Pipeline Project 20-029-016	Plount, Christopher A.
019125	MS 19125	2020	NDT-211	54	Phase 1—Class III Cultural Resource Survey, Upper Missouri River Basin, North Dakota	(Harrell, Bryan - Contributing Author);(Piscitelli, Matthew - Primary Author)

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Map ID	Survey Number	Survey Date	Line Name	Mile Post	Survey Report Title	Survey Report Authors
019186	MS 19186	2021	NDT-211	24.7	NRCS UNDERTAKING 21073001 SCHUTT	(Plount, Christopher A. - Primary Author)
019237	MS 19237	2021	NDM-106	113.2	CEC's Highway 10 and 93rd St Underground Transmission Line: A Class III Cultural Resource Inventory in Burleigh County, North Dakota	Bostyan, Dierdra
019251	MS 19251	2021	NDM-106	116.8- 117.5	Swenson Hagen: A Class III Cultural Resources Inventory for the Silver Ranch 3rd Addition in Burleigh County, North Dakota	Meens, Daan

From: Becker, Drew N <[REDACTED]>
Sent: Thursday, August 19, 2021 10:47 AM
To: Amy Butler
Cc: Megan Cochran; Riddle, Heidi L
Subject: Re: [EXTERNAL] RE: Midwest Carbon Express Project - Request for Pre-Application Meeting and Information

Hi Megan,

Thanks for reaching out and I look forward to learning more about this project. Heidi on my staff will be in touch to set up a meeting time that works for all.

Drew

Drew Becker
North Dakota Ecological Services Supervisor
U.S. Fish and Wildlife Service
3425 Miriam Avenue
Bismarck, North Dakota 58501
Office [REDACTED]
Cell [REDACTED]
[REDACTED]

Our Mission is to work with others to conserve, protect and enhance fish, wildlife and plants and their habitats for the continuing benefit of the American people.

NOTE: This email correspondence and any attachments to and from this sender is subject to the Freedom of Information Act (FOIA) and may be disclosed to third parties.

From: Amy Butler <[REDACTED]>
Sent: Thursday, August 19, 2021 10:44 AM
To: Becker, Drew N <[REDACTED]>
Cc: Megan Cochran <[REDACTED]>
Subject: [EXTERNAL] RE: Midwest Carbon Express Project - Request for Pre-Application Meeting and Information

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Good morning Mr. Becker.

Todd Frerichs contacted me and mentioned you had asked him to get in touch with me regarding the refuge system and coordination for potential crossings of FWS easements. Thank you for forwarding him my information. We have been coordinating to set up a call with him and others in his group that may have interest in this project.

I would still like to set up a call with your office as well to discuss trust resources in North Dakota and considerations we should take as we work through the project. Could you please let me know a good time for you and/or your team in the next week or two to have a meeting to introduce you to the project?

Thank you and I look forward to hearing from you.



Amy Butler
Environmental Project Manager

Perennial Environmental Services, LLC
13100 Northwest Freeway, Suite 150, Houston, Texas 77040
Office: [REDACTED] | Mobile: [REDACTED]
[REDACTED] | www.perennialenv.com

From: Amy Butler
Sent: Wednesday, August 11, 2021 1:43 PM
To: [REDACTED]
Cc: Megan Cochran [REDACTED]
Subject: Midwest Carbon Express Project - Request for Pre-Application Meeting and Information

Good afternoon, Mr. Becker.

I am currently working on a large pipeline project, known as Midwest Carbon Express, that is located throughout several states in the Midwest, including North Dakota. Our team at Perennial is responsible for all project survey, environmental permitting, and coordination within North Dakota, South Dakota, and Nebraska, approximately 1,100 miles of the project in total. We are currently working on finalizing the project routes and I would like to set up a virtual pre-application meeting with your office in the next few weeks to discuss the project further. I understand the importance of coordinating with FWS as early in the process as possible. If feasible, we would like the meeting to include species specialists, Section 7 reviewers, WMD representatives, and any other staff that you feel would be appropriate.

Based on publicly available GIS data, the project crosses through several FWS easements, mainly Waterfowl Production Areas. I do have several questions related to constructing through these areas that I would like to discuss further, including the following:

- In order to ensure that we are using the most current data available as we assist the project team in route development, could you please provide a kmz or shapefile of all areas that are owned or otherwise controlled (e.g. easements, etc.) by the FWS in North Dakota?
- We are also looking to mobilize our biological and cultural field crews to conduct wetland and waterbody delineations, habitat assessments, and cultural resource surveys starting next month.

What permissions or permits are needed to access easement areas or properties owned by FWS?

To provide a little more context, most of the easement crossings appear to be within the Klum WMD and Tewaukon WMD. The project is also within the Long Lake WMD, but does not appear to cross any easements.

From past project experience, I understand that crossing these lands will require extensive coordination with your office, including a NEPA review and development of EA(s). If you have any questions or require any additional information from me, please do not hesitate to reach out to me by email or phone. I appreciate your time and attention to this project and look forward to coordinating with your office further.



Amy Butler

Environmental Project Manager

Perennial Environmental Services, LLC

13100 Northwest Freeway, Suite 150, Houston, Texas 77040

Office: [REDACTED] | Mobile: [REDACTED]

[REDACTED] | www.perennialenv.com

From: Newton, Jared [REDACTED]
Sent: Wednesday, January 26, 2022 3:53 PM
To: Megan Cochran
Subject: Re: [EXTERNAL] RE: Summit Carbon Solutions - Updated Midwest Carbon Express Project Route
Attachments: [Long Lake Grass Easements.zip](#); [EM 235X.jpg](#)

Megan,
Attached is a shapefile for the 3 grass easements (4 tracts) in the immediate area as well as a map of the wetland areas in Section 7. I don't believe I have those digitized yet. It doesn't appear that the pipeline route would intersect any wetland areas, but goes through about a half mile of grassland easement before making a turn to the NW and out of the easement. Going to the north or south of the easement cluster would avoid impacts. Let me know what you think.

Jared Newton
Station Manager
Long Lake NWR Complex
[REDACTED]
[REDACTED]

From: Megan Cochran [REDACTED]
Sent: Wednesday, January 26, 2022 3:28 PM
To: Newton, Jared [REDACTED]
Subject: [EXTERNAL] RE: Summit Carbon Solutions - Updated Midwest Carbon Express Project Route

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Thank you for reviewing and reaching out, Jared. Do you have sketches or kmz's/shapefiles of the easement boundaries and protected wetlands on the easements?

Thanks again,
Megan



Megan Cochran
Senior Environmental Project Manager
Perennial Environmental Services, LLC
13100 Northwest Freeway, Suite 150, Houston, Texas 77040
Mobile: [REDACTED]
[REDACTED] www.perennialenv.com

From: Newton, Jared <[REDACTED]>
Sent: Wednesday, January 26, 2022 3:23 PM
To: Megan Cochran <[REDACTED]>
Subject: Summit Carbon Solutions - Updated Midwest Carbon Express Project Route

Hello Megan,
I am the Station Manager at Long Lake Refuge in Moffit, ND. I manage FWS lands and easements in Burleigh, Emmons and Kidder counties of North Dakota. I received your most recent project route to review for conflicts as well as the original route a few months ago. The original route did not intersect any of our fee or easement interests, so I stepped out of the conversations. The newest route does intersect a wetland and grassland easement in Emmons county and I was asked to contact you directly to see if we could figure out a way to avoid impacts. The easements are located in Section 7, T. 136 N., R. 77 W. I am happy to get you any further information you may need. I am generally in the office, but feel free to use my cell number if you like.

Jared Newton
Station Manager
Long Lake NWR Complex
[REDACTED]
c) [REDACTED]

From: Luke, Todd <[REDACTED]>
Sent: Monday, January 24, 2022 1:47 PM
To: Baer, Kathy <[REDACTED]>; Henderson, Wayne <[REDACTED]>; Newton, Jared <[REDACTED]>
Subject: Fw: [EXTERNAL] Summit Carbon Solutions - Updated Midwest Carbon Express Project Route

Please review the revised routes and let me know if you have any concerns. Thanks much!

From: Megan Cochran <[REDACTED]@m>
Sent: Monday, January 24, 2022 9:49 AM
To: Hansen, Natoma <[REDACTED]>; Frerichs, Todd <[REDACTED]@f>; Comeau, Shilo <[REDACTED]>; Beyer, Jonathan <[REDACTED]>; Wilson, Eric D <[REDACTED]>; Henderson, Wayne <[REDACTED]>; Luke, Todd <[REDACTED]>; Rohlck, Thomas R <[REDACTED]>
Cc: Hill, Laurel A <[REDACTED]>
Subject: [EXTERNAL] Summit Carbon Solutions - Updated Midwest Carbon Express Project Route

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Good morning,

It's been a while since we last provided an update regarding Summit Carbon Solutions' proposed Midwest Carbon Express Project. Following our initial project meeting last fall, we received many different datasets with wetland and grassland easements from all of you. We have since been diligently reworking and refining the Project routes to avoid these areas to the extent practicable.

The attached kmz's present the latest draft centerline and workspaces for the Project. I've included a separate milepost kmz for reference (note, this one gives my Google Earth trouble due to file size, which is why I've separated).

Would you all mind performing an additional review and let me know if there are any protected wetland crossings that we have missed?

Note – there are a few locations where the pipeline crosses a grassland easement. These areas will be crossed via air bridge/bore or via horizontal directional drill (HDD). No surficial impacts on grassland easements are proposed for the Project.

There are a few areas where we will need to impact delineated wetlands on wetland easements. These wetlands were delineated in the field but are not shown as protected wetlands on easement drawings. Will impacts on these delineated wetlands (outside of protected wetlands) trigger the NEPA process and require a Special Use Permit?

We sincerely appreciate your review and expertise as we continue to improve the Project.

Please, let me know if you have any questions or if I can provide anything further.

Thank you,
Megan



Megan Cochran

Senior Environmental Project Manager

Perennial Environmental Services, LLC

13100 Northwest Freeway, Suite 150, Houston, Texas 77040

Mobile: [REDACTED]

[REDACTED] www.perennialenv.com

From: Wilson, Eric D <[REDACTED]>
Sent: Monday, September 20, 2021 8:58 AM
To: Amy Butler
Cc: Megan Cochran
Subject: Re: [EXTERNAL] RE: Summit Carbon Solutions Midwest Carbon Express
Attachments: [MCE_Sargent_County.pdf](#)

Hi Amy,

Attached a map of the easement in Sargent County the pipeline is currently routed through. Looks to me that if you bumped the route up to the section line on the N boundary of the sec 7 you could avoid having any impacts on FWS easements in my district.

Let me know if you have any questions.

Thanks,

Eric Wilson
Wildlife Refuge Specialist
Tewaukon National Wildlife Refuge Complex
9754 143 1/2 Ave SE
Cayuga, ND 58013
O) [REDACTED]
C) [REDACTED]
[REDACTED]
<https://www.fws.gov/refuge/tewaukon>

From: Amy Butler <[REDACTED]>
Sent: Thursday, September 16, 2021 3:45 PM
To: Wilson, Eric D <[REDACTED]>
Cc: Megan Cochran <[REDACTED]>
Subject: RE: [EXTERNAL] RE: Summit Carbon Solutions Midwest Carbon Express

Thank you. I appreciate it!



Amy Butler
Environmental Project Manager

Perennial Environmental Services, LLC
13100 Northwest Freeway, Suite 150, Houston, Texas 77040
Office: [REDACTED] Mobile: 425.785.5995
[REDACTED] www.perennialenv.com

From: Wilson, Eric D <[REDACTED]>
Sent: Thursday, September 16, 2021 3:44 PM

To: Amy Butler [REDACTED]
Cc: Megan Cochran [REDACTED]
Subject: Re: [EXTERNAL] RE: Summit Carbon Solutions Midwest Carbon Express

Hi Amy,

I did get a copy of the route. I should be able to get a map put together for you tomorrow, but it may be early next week if something comes up.

Eric Wilson
Wildlife Refuge Specialist
Tewaukon National Wildlife Refuge Complex
9754 143 1/2 Ave SE
Cayuga, ND 58013

O) [REDACTED]

C) [REDACTED]

[REDACTED]

<https://www.fws.gov/refuge/tewaukon>

From: Amy Butler [REDACTED]
Sent: Thursday, September 16, 2021 3:40 PM
To: Wilson, Eric D [REDACTED]
Cc: Megan Cochran [REDACTED]
Subject: [EXTERNAL] RE: Summit Carbon Solutions Midwest Carbon Express

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Hi Eric.

I wanted to check in with you and make sure you had been provided with a copy of the route kmz for the Project. Based on my review, it looks like we may intersect two wetland easements in your district, but I would like to make sure there aren't any other areas we may not have data for. The other WMDs have been providing the easement maps for the wetland easements crossed by the project so that we can easily identify the FWS interests. If you have any questions or need any additional data, please do not hesitate to contact me.

Thank you,



Amy Butler
Environmental Project Manager

Perennial Environmental Services, LLC
13100 Northwest Freeway, Suite 150, Houston, Texas 77040
Office: [REDACTED] | Mobile: 425.785.5995
[REDACTED] | www.perennialenv.com

From: Wilson, Eric D <[REDACTED]>
Sent: Thursday, September 9, 2021 2:45 PM
To: Amy Butler <[REDACTED]>
Subject: Summit Carbon Solutions Midwest Carbon Express

Hi Amy,

I am currently acting as the manager for the Tewaukon Wetland Management District in SE North Dakota, in an area your project will be routed through. I've had a few of your recent communications for the project forwarded to me, would you mind adding my email to your mailing list for that project?

Thank you,

Eric Wilson
Wildlife Refuge Specialist
Tewaukon National Wildlife Refuge Complex
9754 143 1/2 Ave SE
Cayuga, ND 58013
O) [REDACTED]
C) [REDACTED]
[REDACTED]
<https://www.fws.gov/refuge/tewaukon>

From: Megan Cochran
Sent: Tuesday, February 8, 2022 9:00 AM
To: Wilson, Eric D
Subject: RE: [EXTERNAL] Summit Carbon Solutions - Updated Midwest Carbon Express Project Route

Thank you for reviewing!



Megan Cochran
Senior Environmental Project Manager

Perennial Environmental Services, LLC
13100 Northwest Freeway, Suite 150, Houston, Texas 77040
Mobile: [REDACTED]
[REDACTED] www.perennialenv.com

From: Wilson, Eric D [REDACTED] >
Sent: Tuesday, February 8, 2022 8:04 AM
To: Megan Cochran [REDACTED] m >
Subject: Re: [EXTERNAL] Summit Carbon Solutions - Updated Midwest Carbon Express Project Route

Hi Megan,

That reroute looks good for the Sargent County portion that passed through one of our easements.

Eric Wilson

Wildlife Refuge Specialist

Tewaukon National Wildlife Refuge Complex

9754 143 1/2 Ave SE

Cayuga, ND 58013

O) [REDACTED]

C) [REDACTED] 1

[REDACTED]

<https://www.fws.gov/refuge/tewaukon>

From: Megan Cochran [REDACTED] >
Sent: Monday, January 24, 2022 9:49 AM
To: Hansen, Natoma [REDACTED] >; Frerichs, Todd [REDACTED] >; Comeau, Shilo [REDACTED] >; Beyer, Jonathan [REDACTED] >; Wilson, Eric D [REDACTED] >; Henderson, Wayne [REDACTED] >; Luke, Todd [REDACTED] >; Rohlck, Thomas R [REDACTED] >
Cc: Hill, Laurel A [REDACTED] >
Subject: [EXTERNAL] Summit Carbon Solutions - Updated Midwest Carbon Express Project Route

This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

Good morning,

It's been a while since we last provided an update regarding Summit Carbon Solutions' proposed Midwest Carbon Express Project. Following our initial project meeting last fall, we received many different datasets with wetland and grassland easements from all of you. We have since been diligently reworking and refining the Project routes to avoid these areas to the extent practicable.

The attached kmz's present the latest draft centerline and workspaces for the Project. I've included a separate milepost kmz for reference (note, this one gives my Google Earth trouble due to file size, which is why I've separated).

Would you all mind performing an additional review and let me know if there are any protected wetland crossings that we have missed?

Note – there are a few locations where the pipeline crosses a grassland easement. These areas will be crossed via air bridge/bore or via horizontal directional drill (HDD). No surficial impacts on grassland easements are proposed for the Project.

There are a few areas where we will need to impact delineated wetlands on wetland easements. These wetlands were delineated in the field but are not shown as protected wetlands on easement drawings. Will impacts on these delineated wetlands (outside of protected wetlands) trigger the NEPA process and require a Special Use Permit?

We sincerely appreciate your review and expertise as we continue to improve the Project.

Please, let me know if you have any questions or if I can provide anything further.

Thank you,

Megan



Megan Cochran

Senior Environmental Project Manager

Perennial Environmental Services, LLC

13100 Northwest Freeway, Suite 150, Houston, Texas 77040

Mobile: [REDACTED]

[REDACTED] | www.perennialenv.com

From: Schumacher, John D [REDACTED]
Sent: Tuesday, December 7, 2021 12:21 PM
To: Marshall Olson
Subject: RE: Conservation Section Inquiry

Marshall Olson
Environmental Project Manager
Perennial Environmental Services, LLC

RE: Midwest Carbon Express Project

Summit Carbon Solutions is proposing a pipeline system to capture and permanently sequester carbon dioxide in deep underground geologic formations in North Dakota. The North Dakota Game and Fish Department has reviewed that portion of this project located within the state for wildlife concerns.

A primary concern with pipeline projects is the possible disturbance of native prairie and wooded draws associated with construction of the pipeline and access roads. Avoidance of native prairie areas reduces impacts to a number of grassland species including many species of conservation priority. We ask that work within these areas be avoided to the extent possible, every effort be made to prevent destruction of woody vegetation, and disturbed areas be reclaimed to pre-project conditions.

The National Wetland Inventory indicates a variety of wetlands within the proposed project corridor. Steps should be taken to protect any wetlands that cannot be avoided, no alterations should be made to existing drainage patterns, and above-ground appurtenances should not be placed in wetland areas. Unavoidable destruction or degradation of wetland acres should be mitigated in kind.

The pipeline route crosses a number of Classified fisheries including the Missouri River and Square Butte, Apple, and Beaver Creeks. We ask that these streams be crossed by directional boring to protect the resource. If this method is not feasible, construction should not take place within the waterway between April 15 and June 1, and controls should be implemented to minimize erosion and sedimentation.

The Department also recommends that additional precautions be implemented into the design of pipes crossing under the State's waterways. One means of minimizing a potentially large pipeline failure is to incorporate pressure sensing valves on both sides of the waterway. These valves should be placed as close to the waterway as possible while staying out of the floodplain to reduce potential damage from ice and other floating debris. A maintenance schedule should be developed to ensure the integrity of the pipe for the life of the project.

Aquatic nuisance species (ANS) are a major concern in North Dakota. State law requires that the contractor, including any and all subcontractors involved in this project, take appropriate precautions to prevent the introduction or movement of ANS within the state. The contractor should provide the department a reasonable opportunity to inspect any equipment prior to these items being launched or placed into waters of the state. The Department's Aquatic Nuisance Species Coordinator, Mr. Benjamin Holen, can be contacted at [REDACTED] for equipment inspections or additional information regarding ANS prevention protocols.

Aerial surveys should be conducted for raptor nests before construction begins. We recommend that a ½-mile construction buffer be implemented around active eagle nest sites (known occupied within the past 5 years). Ms. Sandra Johnson, Conservation Biologist, may be contacted at [REDACTED] for additional information on eagle nest sites in the state.

J.D. Schumacher
Resource Biologist

[REDACTED] • [REDACTED] • gf.nd.gov



From: Marshall Olson [REDACTED]
Sent: Monday, November 8, 2021 13:02
To: Schumacher, John D. [REDACTED]
Subject: RE: Conservation Section Inquiry

******* CAUTION:** This email originated from an outside source. Do not click links or open attachments unless you know they are safe. *********

John,

Sorry for the delay in getting this information to you, but please find attached a shapefile that depicts the portion of Summit's Midwest Carbon Express Project (MCE Project) located within North Dakota. The MCE Project is currently in its early planning phases with a scope to capture carbon dioxide (CO₂) and permanently sequester it in deep underground geologic formations in North Dakota. The MCE Project as it is currently configured includes CO₂ capture facilities at various ethanol plants in Minnesota, Iowa, Nebraska, South Dakota, and North Dakota; pipelines to gather the captured CO₂, trunklines and mainline pipelines to transport the CO₂ to North Dakota; and sequestration facilities in North Dakota to inject and store the CO₂. The pipelines in North Dakota will range in size from 4 to 22 inches in diameter and will carry liquid phase CO₂ under pressure. In addition to the pipelines, the MCE Project will require the construction of pump stations at various points along the pipelines as well as pumping/compression facilities associated with the injection wells in North Dakota.

Let me know if you have any questions or need any additional information to facilitate your review of the MCE Project.

Thanks,



Marshall Olson
Environmental Project Manager

Perennial Environmental Services, LLC
13100 Northwest Freeway, Suite 150, Houston, Texas 77040
Office [REDACTED] | Mobile [REDACTED]
[REDACTED] | www.perennialenv.com

From: Schumacher, John D. [REDACTED]
Sent: Tuesday, November 2, 2021 11:59 AM
To: Marshall Olson [REDACTED]
Subject: RE: Conservation Section Inquiry

Mr. Olson,

We appreciate being included in the review of Summit's Midwest Carbon Express project early in the process. Information regarding the project can be sent to me at this address or through the Secure File Transfer System invitation.

Thank you,
John

J.D. Schumacher
Resource Biologist

[REDACTED] • [REDACTED] • gf.nd.gov



From: Conservation Section Contact Form [REDACTED]
Sent: Wednesday, October 27, 2021 9:51 AM
To: Bowers, Amber D. [REDACTED]
Subject: Conservation Section Inquiry

******* CAUTION:** This email originated from an outside source. Do not click links or open attachments unless you know they are safe. *********

This email was generated by the Conservation Section Contact Request form at <https://gf.nd.gov/wildlife/contact-us>.

-- Inquiry --



**SCS MCE
Agency Contact Summary Form**

Communication Location: Virtual

Date/Time of Contact: January 25, 2022 / 9:45 – 10:45 am Central

Project Team Member(s): Megan Cochran (Perennial), Josh Melnar (Perennial), John Beaver (WESTECH) - recorder, Pete Christensen (WESTECH)

Contact Information:

Name:	Charlene Bessken (USFWS-SD); Drew Becker (USFWS-ND); Heidi Riddle (USFWS-ND); Matt Rabbe (USFWS-NE)
Title:	various
Organization:	U.S. Fish and Wildlife Service
Address:	NA
County:	NA
Phone:	various
E-mail address:	

Meeting Information:

Type of Contact: In-person Phone

Concern Level: High Moderate Low

SUBJECT OF MEETING: Federally-Listed Threatened and Endangered Species and Survey Requirements

Meeting Details:

1. Introduction/Project Summary:

Ms. Cochran summarized the Midwest Carbon Express (MCE) project regarding its location, the environmental survey work that has been done to date, remaining work to do, and probable mitigation measures to avoid impacting T&E species such as trenchless waterbody crossings on larger waterbodies (e.g., Platte or Missouri Rivers), or adhering to the Northern Long-Eared Bat (NLEB) 4(d) rule timing restrictions for tree removal (June 1 to July 31). She stated that the project was in the process of drafting habitat assessments with effects language for review by the Service and that for species where survey is required the effects would be undetermined. She stated that cultural surveys were being completed on 100% of the route. She also noted that the USACE is the lead federal agency on the project.



Mr. Becker asked if the USACE would assert authority over uplands and associated species and if consultation would occur between the USACE and the Service, or if the Service would be providing technical assistance to MCE. Ms. Cochran said she believed this would be technical assistance between the Service and MCE. Mr. Becker stated that if there is no USACE and no federal nexus then take coverage, if required, would be a function of Section 10. He stated that the Service would greatly prefer if no take coverage were needed. Ms. Cochran concurred that MCE is doing everything it can to avoid take and the need for formal consultation.

2. Species Survey Requirements and Methods:

Mr. Beaver noted that consultation letters had been generated via IPaC for the 3 states of interest, and that based on those letters the following species had been identified. Each species was discussed as to likelihood of presence, suitable habitat, and the mitigation measures noted above relative to whether survey would be useful, and if so, what type of survey and the timing of that survey.

2.1. Pallid Sturgeon, Scaleshell Mussel, Piping Plover, and Least Tern

All of these species are known to occur in large rivers (Platte, Missouri, and/or Loup) that will be crossed using the trenchless, HDD method. Mr. Rabbe also noted that scaleshell mussel occurs north of the Missouri River crossing, whereas one, or more of the remaining species could be present at one, or more, of these rivers. Mr. Rabbe asked if water would be removed for hydrostatic testing, and if so that MCE follow the intake screen requirements that were identified for the Keystone project. Ms. Cochran stated that water would be removed for testing but that no excavation would occur. Mr. Beaver stated that he would find the screen requirements for Keystone and include with these meeting notes for review. The Biological Opinion for Keystone re: intake screen size and pallid sturgeon states:

“Keystone will screen the intake end of any water withdrawal pump with mesh having openings no larger than 0.125 inch, a floating surface intake would be used to avoid the benthic habitat used by the sturgeon; water velocity at the screen would not exceed 12 centimeters per second to prevent entrainment of larval fish, and the intake screens would be periodically checked for fish impingement.”

Based on trenchless crossings of these rivers and using screens on intake hoses, the Service concluded that survey for Pallid Sturgeon, Scaleshell Mussel, Piping Plover, and Least Tern is not required.

2.2. Topeka Shiner

The route will cross Taylor Creek near Madison, NE within that portion of the creek designated as Critical Habitat for Topeka shiner. The species is already known to occur in this creek and the creek will be crossed using the trenchless, HDD method. Mr. Rabbe stated that as long as Taylor Creek was crossed using trenchless methods no survey was necessary.

The route also crosses at least two rivers in South Dakota, the James River and the Big Sioux River, where Topeka shiner has been known to occur. In addition, the route may cross other, smaller streams where Topeka shiner has been known to occur. Ms. Bessken stated that she would obtain and share a map of streams in SD where Topeka shiner have been located (this map was subsequently provided via SDGFP and is attached). Ms. Bessken noted that Natalie Gates, USFWS-SD Topeka shiner specialist stated, “if the project folks are working in any waterways connected to the ones on this map, and the stream has water in it (even if intermittent), they need to consider the shiner”. **Based on this assessment, survey for Topeka shiner in Nebraska is not required. In South Dakota, some survey for Topeka shiner may be required if not all waterbodies associated with Topeka shiner streams and rivers are crossed using a trenchless method or work windows that would avoid periods when shiner could be present.**

2.3. Northern Long-Eared Bat (NLEB)

The project occurs within the range of NLEB. However, very little wooded habitat that could contain a maternity roost tree, or other roost tree, will be affected. Most of the large, wooded areas are adjacent to large rivers. These forests would not be affected because the rivers will be crossed via HDD and the construction footprint will not remove trees. Based on data from NEGPC and SDGFP, there are no known maternity roost trees or hibernacula within miles of the project. Although the location of most maternity roost trees is unknown. Ms. Cochran re-iterated that the project intends to abide by the 4(d) rule and not remove any trees during the restriction window of June 1 to July 31. Ms. Bessken stated that as long as the project followed the 4(d) rule that survey would not be required. ***Based on this assessment, survey for NLEB is not required.***

2.4. Rufa Red Knot and Whooping Crane

Mr. Rabbe noted that survey for rufa red knot is not recommended in Nebraska because the species is very unlikely to occur. Ms. Bessken agreed that rufa red knot is similarly very infrequent in South Dakota, and Ms. Riddle stated that habitat for red knot is similar to that for piping plover so avoidance measures for plover would also protect red knot. ***Based on this assessment, survey for rufa red knot is not required.***

Portions of the project occurs within the primary migratory corridor for whooping crane. However, pre-construction surveys for the species would not necessarily help with mitigating impacts. Mr. Rabbe stated that the western portion of the project in Nebraska near Wood River is excellent whooping crane migration habitat. He also stated that portions of the route are within the 95% migration corridor and that there are several areas with appropriate stop-over and roosting habitat along the route. He stated that MCE could coordinate with him, or others with USFWS, to track whooping crane migration. He also stated that MCE should either avoid construction during the migration window, or adhere to other mitigation measures, such as stopping construction when birds are near, during construction. ***Based on this assessment, survey for whooping crane is not required.***

2.5. American Burying Beetle (ABB)

Ms. Cochran stated that MCE is contracting with Dr. Wyatt Hoback to identify habitat for ABB along the route and where surveys may be required. Based on information from NEGPC, the project is aware that ABB is very uncommon in Antelope County but is relatively common in Holt County. Mr. Rabbe concurred that as long as Dr. Hoback was conducting the habitat assessment and surveys, and coordinated with USFWS and NEGPC, that the work should be adequate. ***Survey for ABB is required in suitable habitat. MCE should submit a survey plan for review and concurrence prior to beginning work.***

2.6. Poweshiek Skipperling, Monarch, Dakota Skipper

Ms. Bessken noted that Poweshiek skipperling is likely extirpated in South Dakota. The species does not occur in either Nebraska or North Dakota. She stated that for Monarchs, recording the various species of milkweed where they occur would be adequate to assess habitat. ***Based on this assessment, survey for Poweshiek skipperling and Monarch is not required.***

There are some areas of Dakota skipper habitat in both South Dakota and North Dakota along the route. Mr. Beaver stated that Jim Reiser, who holds a collector's permit, works with WESTECH and will be the lead surveyor for Dakota skipper with other biologists working under his direction. He also stated that given the short survey window and challenges with weather and access, it may not be possible to fully comply with 3 separate surveys separated by 48 hours at all sites with habitat. If not, he suggested MCE identify habitat quality in lieu of completing surveys at all sites. Ms. Bessken stated this would be appropriate and the best alternative if all surveys could not be completed, she also stated that she would provide Dakota skipper survey protocols (these were provided later in the day). ***Survey for Dakota skipper is required in suitable habitat.***

2.7. Prairie Bush Clover and Western Prairie Fringed Orchid (WPFO)

Ms. Bessken stated that prairie bush clover does not occur in South Dakota and that its inclusion in the IPaC letter is some sort of problem with the system. ***Survey for prairie bush clover is not required.***



Mr. Beaver noted that the route will cross some areas of suitable habitat for WPFO in all 3 states. Primary surveyors for these species will be Dr. Kay Kottas, Alicia Admiraal, and himself. All surveyors have experience identifying habitat for these species, as well as the species themselves. Dr. Kottas and Ms. Admiraal are Nebraska residents. Mr. Beaver stated that he would prepare a survey study plan for review by USFWS. **Survey for western prairie fringed orchid is required in suitable habitat. MCE should submit a survey plan for review and concurrence prior to beginning work.**

2.8. Miscellaneous

Ms. Bessken noted that 4 Waterfowl Production Areas (WPA) will be crossed and the MCE needs to work with the refuges to determine what needs to be done as easements on those properties can be difficult.

She also noted that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act and that nests should not be disturbed.

Mr. Rabbe likewise brought up migratory birds under the Migratory Bird Protection Act, stating that incidental take is regulated again. Ms. Cochran stated that MCE intends to clear vegetation from the right-of-way prior to nesting as much as possible. There was some discussion on when the nesting season began in each state and Mr. Rabbe stated that he thought that had been defined for Keystone and could be used for MCE. Mr. Beaver said he would look up the nesting season dates from the last version of Keystone's migratory bird conservation plan. Those dates are:

- Montana (North Dakota would be similar): April 1 to July 15
- South Dakota: March 15 to July 15
- Nebraska: March 1 to July 15

In summary, USFWS recommends pre-construction survey in suitable habitat for the following species:

- American burying beetle
- Dakota skipper
- Western prairie fringed orchid
- Possibly Topeka shiner in South Dakota depending on crossing methods at particular streams

Surveys should be conducted during the appropriate season using appropriate protocols. WESTECH will provide USFWS with draft survey study plans for review prior to initiating field work.

ACTION ITEMS

1. Develop survey study plans for ABB, WPFO, Dakota skipper, and possibly Topeka shiner for agency review.
2. USFWS to provide Dakota skipper survey protocols – completed.
3. Determine water intake screen parameters from Keystone to avoid impacts to pallid sturgeon and other listed species within large rivers – completed and included with these notes.
4. Determine migratory bird nesting seasons by state from Keystone – completed and included with these notes.
5. Obtain Topeka shiner streams in South Dakota from SDGFP and determine crossing methods or survey requirement. Streams identified and included with these notes. Crossing method to be determined.



DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, OMAHA DISTRICT
1616 CAPITOL AVENUE
OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

The Honorable John Johnson, Governor (c/o Representative Alicia Miller)
Absentee-Shawnee Tribe of Indians of Oklahoma
2025 S. Gordon Cooper Drive
Shawnee, OK 74801

Dear Governor Johnson:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

Portions of the pipeline associated with the Project will require USACE review and approval under Sections 10 and 14 of the Rivers and Harbors Act (33 U.S.C. 403 & 408) and Section 404 of the Clean Water Act (33 U.S.C. 1344). Summit has begun their own independent outreach to Tribal Nations (copy of August 31, 2021 letter enclosed). Because of our anticipated federal regulatory role, USACE is coordinating with you at this early stage to identify consulting Tribes and to ensure consideration and protection of historic properties of religious and cultural significance as we begin our review of the Project. In addition to your Tribe, USACE is concurrently initiating coordination with other Tribal Nations via this letter. Enclosed is the list of the Tribal Nations with whom USACE has initiated coordination as of the date of this letter.

For this action, USACE would like to know 1) your geographic area(s) of interest, 2) your initial point(s) of contact, 3) any information you may be able to provide regarding historic properties of religious or cultural significance, including Traditional Cultural Properties, and 4) any initial concerns, comments, or questions about USACE authorities applicable to the Project.



DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, OMAHA DISTRICT
1616 CAPITOL AVENUE
OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Durell Cooper, Chairman
Apache Tribe of Oklahoma
PO Box 1330
Anadarko, OK 73005

Dear Chairman Cooper:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

Portions of the pipeline associated with the Project will require USACE review and approval under Sections 10 and 14 of the Rivers and Harbors Act (33 U.S.C. 403 & 408) and Section 404 of the Clean Water Act (33 U.S.C. 1344). Summit has begun their own independent outreach to Tribal Nations (copy of August 31, 2021 letter enclosed). Because of our anticipated federal regulatory role, USACE is coordinating with you at this early stage to identify consulting Tribes and to ensure consideration and protection of historic properties of religious and cultural significance as we begin our review of the Project. In addition to your Tribe, USACE is concurrently initiating coordination with other Tribal Nations via this letter. Enclosed is the list of the Tribal Nations with whom USACE has initiated coordination as of the date of this letter.

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DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, OMAHA DISTRICT
1616 CAPITOL AVENUE
OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Michael Wiggins, Jr., Chairman
Bad River Band of Lake Superior Chippewa
P.O. Box 39
Odanah, WI 54861

Dear Chairman Wiggins, Jr.:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

Portions of the pipeline associated with the Project will require USACE review and approval under Sections 10 and 14 of the Rivers and Harbors Act (33 U.S.C. 403 & 408) and Section 404 of the Clean Water Act (33 U.S.C. 1344). Summit has begun their own independent outreach to Tribal Nations (copy of August 31, 2021 letter enclosed). Because of our anticipated federal regulatory role, USACE is coordinating with you at this early stage to identify consulting Tribes and to ensure consideration and protection of historic properties of religious and cultural significance as we begin our review of the Project. In addition to your Tribe, USACE is concurrently initiating coordination with other Tribal Nations via this letter. Enclosed is the list of the Tribal Nations with whom USACE has initiated coordination as of the date of this letter.

For this action, USACE would like to know 1) your geographic area(s) of interest, 2) your initial point(s) of contact, 3) any information you may be able to provide regarding historic properties of religious or cultural significance, including Traditional Cultural Properties, and 4) any initial concerns, comments, or questions about USACE authorities applicable to the Project.



DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, OMAHA DISTRICT
1616 CAPITOL AVENUE
OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Timothy Davis, Chairman
Blackfeet Nation
P.O. Box 850
Browning, MT 59417

Dear Chairman Davis:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

Portions of the pipeline associated with the Project will require USACE review and approval under Sections 10 and 14 of the Rivers and Harbors Act (33 U.S.C. 403 & 408) and Section 404 of the Clean Water Act (33 U.S.C. 1344). Summit has begun their own independent outreach to Tribal Nations (copy of August 31, 2021 letter enclosed). Because of our anticipated federal regulatory role, USACE is coordinating with you at this early stage to identify consulting Tribes and to ensure consideration and protection of historic properties of religious and cultural significance as we begin our review of the Project. In addition to your Tribe, USACE is concurrently initiating coordination with other Tribal Nations via this letter. Enclosed is the list of the Tribal Nations with whom USACE has initiated coordination as of the date of this letter.

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DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, OMAHA DISTRICT
1616 CAPITOL AVENUE
OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Ms. Cathy Chavers, Chairwoman
Bois Forte Band of Chippewa
5344 Lakeshore Drive
Nett Lake, MN 55772

Dear Chairwoman Chavers:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, OMAHA DISTRICT
1616 CAPITOL AVENUE
OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Bobby Gonzalez, Chairman
Caddo Nation of Oklahoma
P.O. Box 487
Binger, OK 73009

Dear Chairman Gonzalez:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, OMAHA DISTRICT
1616 CAPITOL AVENUE
OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Chuck Hoskin Jr., Principal Chief
Cherokee Nation, Oklahoma
P.O. Box 948
Tahlequah, OK 74465

Dear Principal Chief Hoskin Jr.:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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CORPS OF ENGINEERS, OMAHA DISTRICT
1616 CAPITOL AVENUE
OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

The Honorable Reggie Wassana, Governor
Cheyenne and Arapahoe Tribes, Oklahoma
P.O. Box 38
Concho, OK 73022

Dear Governor Wassana:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, OMAHA DISTRICT
1616 CAPITOL AVENUE
OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Harold Frazier, Chairman
Cheyenne River Sioux Tribe
P.O. Box 590
Eagle Butte, SD 57625

Dear Chairman Frazier:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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CORPS OF ENGINEERS, OMAHA DISTRICT
1616 CAPITOL AVENUE
OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Harlan Baker, Chairman
Chippewa Cree Tribe of the Rocky Boy's Reservation
P.O. Box 544
Box Elder, MT 59521

Dear Chairman Baker:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, OMAHA DISTRICT
1616 CAPITOL AVENUE
OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. John Barrett, Chairman
Citizen Potawatomi Nation
1601 South Gordon Cooper Drive
Shawnee, OK 74801

Dear Chairman Barrett:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, OMAHA DISTRICT
1616 CAPITOL AVENUE
OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Mark Woommavovah, Chairman
Comanche Nation, Oklahoma
P.O.Box 908
Lawton, OK 73502

Dear Chairman Woommavovah:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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CORPS OF ENGINEERS, OMAHA DISTRICT
1616 CAPITOL AVENUE
OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Peter Lengkeek, Chairman
Crow Creek Sioux Tribe
P.O. Box 50
Fort Thompson, SD 57339

Dear Chairman Lengkeek:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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CORPS OF ENGINEERS, OMAHA DISTRICT
1616 CAPITOL AVENUE
OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Frank White Clay, Chairman
Crow Tribe of Montana
P.O. Box 159
Crow Agency, MT 59022

Dear Chairman White Clay:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Ms. Deborah Dotson, President
Deleware Nation
P.O. Box 825
Anadarko, OK 73005

Dear President Dotson:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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DEPARTMENT OF THE ARMY
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OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Brad KillsCrow, Chief
Delaware Tribe of Indians
5100 Tuxedo Blvd
Bartlesville, OK 74006

Dear Chief KillsCrow:

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DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, OMAHA DISTRICT
1616 CAPITOL AVENUE
OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Ms. Glenna J. Wallace, Chief
Eastern Shawnee Tribe of Oklahoma
P.O. Box 350
Seneca, MO 64865

Dear Chief Wallace:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, OMAHA DISTRICT
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OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. John St. Clair, Chairman
Eastern Shoshone of the Wind River Reservation
PO Box 538
Fort Washakie, WY 82514

Dear Chairman St. Clair:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Anthony Reider, President
Flandreau Santee Sioux Tribe of South Dakota
P.O. Box 283
Flandreau, SD 57028

Dear President Reider:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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CORPS OF ENGINEERS, OMAHA DISTRICT
1616 CAPITOL AVENUE
OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Kevin Dupuis, Chairman
Fond du Lac Band of Lake Superior Chippewa
1720 Big Lake Road
Cloquet, MN 55720

Dear Chairman Dupuis:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Ned Daniels Jr., Chairman
Forest County Potawatomi Community
P.O. Box 340
Crandon, WI 54520

Dear Chairman Daniels Jr.:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Jeffery Stiffarm, President
Fort Belknap Indian Community
656 Agency Main Street
Harlem, MT 59526

Dear President Stiffarm:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, OMAHA DISTRICT
1616 CAPITOL AVENUE
OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Floyd Azure, Chairman
Fort Peck Assiniboine and Sioux Tribe
P.O. Box 1027
Poplar, MT 59255

Dear Chairman Azure:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, OMAHA DISTRICT
1616 CAPITOL AVENUE
OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Robert Deschampe, Chairman
Grand Portage Band of Lake Superior Chippewa
P.O. Box 428
Grand Portage, MN 55605

Dear Chairman Deschampe:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, OMAHA DISTRICT
1616 CAPITOL AVENUE
OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Kenneth Meshigaud, Chairperson
Hannahville Indian Community
N14911 Hannahville B-1 Road
Wilson, MI 49896

Dear Chairperson Meshigaud:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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CORPS OF ENGINEERS, OMAHA DISTRICT
1616 CAPITOL AVENUE
OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Marlon WhiteEagle, President
Ho-Chunk Nation of Wisconsin
P.O. Box 667
Black River Falls, WI 54615

Dear President WhiteEagle:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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CORPS OF ENGINEERS, OMAHA DISTRICT
1616 CAPITOL AVENUE
OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Tim Rhodd, Chairperson
Iowa Tribe of Kansas and Nebraska
3345 B Thrasher Rd.
White Cloud, KS 66094

Dear Chairperson Rhodd:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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CORPS OF ENGINEERS, OMAHA DISTRICT
1616 CAPITOL AVENUE
OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Edgar Kent Jr., Chairman
Iowa Tribe of Oklahoma
335588 E 750 Rd
Perkins, OK 74059

Dear Chairman Kent Jr.:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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CORPS OF ENGINEERS, OMAHA DISTRICT
1616 CAPITOL AVENUE
OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Ms. Lynn Willams, Chairperson
Kaw Nation
P.O. Box 50
Kaw City, OK 74641

Dear Chairperson Willams:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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CORPS OF ENGINEERS, OMAHA DISTRICT
1616 CAPITOL AVENUE
OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Ms. Kim Klopstein, President
Keweenaw Bay Indian Community
16429 Beartown Road
Baraga, MI 49908

Dear President Klopstein:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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CORPS OF ENGINEERS, OMAHA DISTRICT
1616 CAPITOL AVENUE
OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Brian Givens, Mekko
Kialegee Tribal Town
P.O. Box 332
Wetumka, OK 74883

Dear Mekko Givens:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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1616 CAPITOL AVENUE
OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Lester Randall, Chairman
Kickapoo Tribe of Indians of the Kickapoo Reservation in Kansas
824 111th Drive
Horton, KS 66439

Dear Chairman Randall:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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1616 CAPITOL AVENUE
OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Darwin Kakaske, Chairman
Kickapoo Tribe of Oklahoma
P.O. Box 70
McLoud, OK 74851

Dear Chairman Kakaske:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, OMAHA DISTRICT
1616 CAPITOL AVENUE
OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Juan Garza Jr., Chairman
Kickapoo Traditional Tribe of Texas
2212 Rosita Valley Road
Eagle Pass, TX 78852

Dear Chairman Garza Jr.:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, OMAHA DISTRICT
1616 CAPITOL AVENUE
OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Matthew Komalty, Chairman
Kiowa Tribe of Oklahoma
P.O. Box 369
Carnegie, OK 73015

Dear Chairman Komalty:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, OMAHA DISTRICT
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OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Louis Taylor, Chairman
Lac Courte Oreilles Band of Lake Superior Chippewa
13394 West Trepania Road Bldg. 1
Hayward, WI 54843

Dear Chairman Taylor:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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CORPS OF ENGINEERS, OMAHA DISTRICT
1616 CAPITOL AVENUE
OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. John Johnson, President
Lac du Flambeau Band of Lake Superior Chippewa
P.O. Box 67
Lac du Flambeau, WI 54538

Dear President Johnson:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, OMAHA DISTRICT
1616 CAPITOL AVENUE
OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. James Williams Jr., Chairman
Lac Vieux Desert Band of Lake Superior Chippewa
P.O. Box 249
Watersmeet, MI 49969

Dear Chairman Williams Jr.:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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1616 CAPITOL AVENUE
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February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Faron Jackson Jr., Chairman
Leech Lake Band of Ojibwe
190 Sailstar Drive NW
Cass Lake, MN 56633

Dear Chairman Jackson Jr.:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Gerald Gray, Chairman
Little Shell Band of Chippewa
511 Central Avenue West
Great Falls, MT 59404

Dear Chairman Gray:

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February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Ms. Regina Gasco-Bentley, Chairperson
Little Traverse Bay Bands of Odawa Indians, Michigan
7500 Odawa Circle
Harbor Springs, MI 49740

Dear Chairperson Gasco-Bentley:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, OMAHA DISTRICT
1616 CAPITOL AVENUE
OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Clyde Estes, Chairman
Lower Brule Sioux Tribe
187 Oyate Circle
Lower Brule, SD 57548

Dear Chairman Estes:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, OMAHA DISTRICT
1616 CAPITOL AVENUE
OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Ms. Robert Larsen, President
Lower Sioux Indian Community
P.O. Box 308
Morton, MN 56270

Dear President Larsen:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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CORPS OF ENGINEERS, OMAHA DISTRICT
1616 CAPITOL AVENUE
OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Bob Peters, Chairman
Match-E-Be-Nash-She-Wish Band of Potawatomi Indians
2872 Mission Dr.
Shelbyville, MI 49344

Dear Chairman Peters:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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CORPS OF ENGINEERS, OMAHA DISTRICT
1616 CAPITOL AVENUE
OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Ron Corn, Sr., Chairman
Menominee Indian Tribe of Wisconsin
PO Box 910
Keshena, WI 54135

Dear Chairman Corn, Sr.:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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CORPS OF ENGINEERS, OMAHA DISTRICT
1616 CAPITOL AVENUE
OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Douglas Lankford, Chief
Miami Tribe of Oklahoma
P.O. Box 1326
Miami, OK 74355

Dear Chief Lankford:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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CORPS OF ENGINEERS, OMAHA DISTRICT
1616 CAPITOL AVENUE
OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Ms. Melanie Benjamin, Chief Executive
Mille Lacs Band of Ojibwe
43408 Oodena Drive
Onamia, MN 56359

Dear Chief Executive Benjamin:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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CORPS OF ENGINEERS, OMAHA DISTRICT
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OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Jordan Dresser, Chairman
Northern Arapaho
P.O. Box 396
Fort Washakie, WY 82514

Dear Chairman Dresser:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Ms. Serena Wetherelt, Interim President
Northern Cheyenne Tribe
P.O. Box 128
Lame Deer, MT 59043

Dear Vice President Wetherelt:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Jamie Stuck, Chairperson
Nottawaseppi Huron Band of the Potawatomi, Michigan
1485 Mno-Bmadzewen Way
Fulton, MI 49052

Dear Chairperson Stuck:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Kevin Killer, President
Oglala Sioux Tribe
P.O. Box 2070
Pine Ridge, SD 57770

Dear President Killer:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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CORPS OF ENGINEERS, OMAHA DISTRICT
1616 CAPITOL AVENUE
OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Leander Merrick, Chairperson
Omaha Tribe of Nebraska
P.O. Box 368
Macy, NE 68039

Dear Chairperson Merrick:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, OMAHA DISTRICT
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February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Tehassi Hill, Chairman
Oneida Nation of Wisconsin
P.O. Box 365
Oneida, WI 54155

Dear Chairman Hill:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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CORPS OF ENGINEERS, OMAHA DISTRICT
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OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Geoffrey Standing Bear, Principal Chief
Osage Nation
PO Box 779
Pawhuska, OK 74056

Dear Chief Standing Bear:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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CORPS OF ENGINEERS, OMAHA DISTRICT
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February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. John Shotton, Chairman
Otoe-Missouria Tribe of Indians, Oklahoma
8151 Highway 177
Red Rock, OK 74651

Dear Chairman Shotton:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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CORPS OF ENGINEERS, OMAHA DISTRICT
1616 CAPITOL AVENUE
OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Walter Echo-Hawk, President
Pawnee Nation of Oklahoma
P.O.Box 470
Pawnee, OK 74058

Dear President Echo-Hawk:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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CORPS OF ENGINEERS, OMAHA DISTRICT
1616 CAPITOL AVENUE
OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Craig Harper, Chief
Peoria Tribe of Indians of Oklahoma
PO Box 1527
Miami, OK 74355

Dear Chief Harper:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Ms. Rebecca Richards, Chairwoman
Pokagon Band of Potawatomi Indians, Michigan and Indiana
P.O. Box 180
Dowagiac, MI 49047

Dear Chairwoman Richards:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Ms. Rebecca Sullivan, Interim Chairwoman
Ponca Tribe of Nebraska
P.O. Box 288
Niobrara, NE 68760

Dear Vice Chairwoman Sullivan:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, OMAHA DISTRICT
1616 CAPITOL AVENUE
OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Oliver Little Cook, Chairman
Ponca Tribe of Oklahoma
20 White Eagle Drive
Ponca City, OK 74601

Dear Chairman Little Cook:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, OMAHA DISTRICT
1616 CAPITOL AVENUE
OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Joseph Rupnick, Chairperson
Prairie Band of Potawatomi Nation
16281 Q Road
Mayetta, KS 66509

Dear Chair Person Rupnick:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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CORPS OF ENGINEERS, OMAHA DISTRICT
1616 CAPITOL AVENUE
OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Johnny Johnson, President
Prairie Island Indian Community
5636 Sturgeon Lake Road
Welch, MN 55089

Dear President Johnson:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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CORPS OF ENGINEERS, OMAHA DISTRICT
1616 CAPITOL AVENUE
OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Christopher Boyd, Chairman
Red Cliff Band of Lake Superior Chippewa
88485 Pike Road
Bayfield, WI 54814

Dear Chairman Boyd:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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CORPS OF ENGINEERS, OMAHA DISTRICT
1616 CAPITOL AVENUE
OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Darrell Seki, Sr., Chairman
Red Lake Nation
P.O. Box 550
Red Lake, MN 56671

Dear Chairman Seki, Sr.:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Scott Herman, President
Rosebud Sioux Tribe
P.O. Box 430
Rosebud, SD 57570

Dear President Herman:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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1616 CAPITOL AVENUE
OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Ms. Tiauna Carnes, Chairwoman
Sac & Fox Nation of Missouri in Kansas and Nebraska
305 N. Main St.
Reserve, KS 66434

Dear Chairwoman Carnes:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Justin Freeland Wood, Principal Chief
Sac & Fox Nation, Oklahoma
920883 South Highway 99 Building A
Stroud, OK 74079

Dear Principal Chief Wood:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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1616 CAPITOL AVENUE
OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Vern Jefferson, Chairman
Sac & Fox Tribe of the Mississippi in Iowa
349 Meskwaki Rd.
Tama, IA 52339

Dear Chairman Jefferson:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Roger Trudell, Chairman
Santee Sioux Nation, Nebraska
108 Spirit Lake Ave. W
Niobrara, NE 68760

Dear Chairman Trudell:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, OMAHA DISTRICT
1616 CAPITOL AVENUE
OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Keith Anderson, Chairman
Shakopee Mdewakanton Sioux Community
2330 Sioux Trail NW
Prior Lake, MN 55372

Dear Chairman Anderson:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, OMAHA DISTRICT
1616 CAPITOL AVENUE
OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Devon Boyer, Chairman
Shoshone-Bannock Tribes of the Fort Hall Reservation
P.O.Box 306
Fort Hall, ID 83203

Dear Chairman Boyer:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Benjamin Barnes, Chief
Shawnee Tribe
P.O. Box 189
Miami, OK 74354

Dear Chief Barnes:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, OMAHA DISTRICT
1616 CAPITOL AVENUE
OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Delbert Hopkins Jr., Chairman
Sisseton-Wahpeton Oyate of the Lake Traverse Reservation, South Dakota
P.O. Box 509
Agency Village, SD 57262

Dear Chairman Hopkins Jr.:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Robert VanZile Jr., Chairman
Sokaogon Chippewa Community of Wisconsin (Sokaogon Mole Lake Chippewa Community)
3051 Sand Lake Road
Crandon, WI 54520

Dear Chairman VanZile Jr.:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Douglas Yankton Sr., Chairperson
Spirit Lake Tribe, North Dakota
PO Box 359
Fort Totten, ND 58335

Dear Chairperson Yankton Sr.:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. William Reynolds, Chairman
St. Croix Band of Chippewa Indians
24663 Angeline Avenue
Webster, WI 54893

Dear Chairman Reynolds:

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February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Ms. Janet Alkire, Chairwoman
Standing Rock Sioux Tribe
P.O. Box D
Fort Yates, ND 58538

Dear Chairwoman Alkire:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

Portions of the pipeline associated with the Project will require USACE review and approval under Sections 10 and 14 of the Rivers and Harbors Act (33 U.S.C. 403 & 408) and Section 404 of the Clean Water Act (33 U.S.C. 1344). Summit has begun their own independent outreach to Tribal Nations (copy of August 31, 2021 letter enclosed). Because of our anticipated federal regulatory role, USACE is coordinating with you at this early stage to identify consulting Tribes and to ensure consideration and protection of historic properties of religious and cultural significance as we begin our review of the Project. In addition to your Tribe, USACE is concurrently initiating coordination with other Tribal Nations via this letter. Enclosed is the list of the Tribal Nations with whom USACE has initiated coordination as of the date of this letter.

For this action, USACE would like to know 1) your geographic area(s) of interest, 2) your initial point(s) of contact, 3) any information you may be able to provide regarding historic properties of religious or cultural significance, including Traditional Cultural Properties, and 4) any initial concerns, comments, or questions about USACE authorities applicable to the Project.



DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, OMAHA DISTRICT
1616 CAPITOL AVENUE
OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Ms. Shannon Holsey, President
Stockbridge-Munsee Community
N8476 MohHeConNuck Road
Bowler, WI 54416

Dear President Holsey:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, OMAHA DISTRICT
1616 CAPITOL AVENUE
OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Joseph Byrd, Chairman
The Quapaw Tribe of Indians
P.O. Box 765
Quapaw, OK 74363

Dear Chairman Byrd:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, OMAHA DISTRICT
1616 CAPITOL AVENUE
OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Mark Fox, Chairman
Three Affiliated Tribes (Mandan, Hidatsa & Arikara Nation)
404 Frontage Road
New Town, ND 58763

Dear Chairman Fox:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, OMAHA DISTRICT
1616 CAPITOL AVENUE
OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Jamie Azure, Chairman
Turtle Mountain Band of Chippewa Indians
P.O. Box 900
Belcourt, ND 58316

Dear Chairman Azure:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, OMAHA DISTRICT
1616 CAPITOL AVENUE
OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Joe Bunch, Chief
United Keetoowah Band of Cherokee of Oklahoma
P.O. Box 746
Tahlequah, OK 74464

Dear Chief Bunch:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, OMAHA DISTRICT
1616 CAPITOL AVENUE
OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Kevin Jensvold, Chairperson
Upper Sioux Community
P.O. Box 147
Granite Falls, MN 56241

Dear Chairperson Jensvold:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, OMAHA DISTRICT
1616 CAPITOL AVENUE
OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Michael Fairbanks, Chairman
White Earth Band of the Minnesota Chippewa Tribe
PO Box 418
White Earth, MN 56591

Dear Chairman Fairbanks:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, OMAHA DISTRICT
1616 CAPITOL AVENUE
OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Ms. Victoria Kitcheyan, Chairwoman
Winnebago Tribe of Nebraska
P.O. Box 687
Winnebago, NE 68071

Dear Chairwoman Kitcheyan:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, OMAHA DISTRICT
1616 CAPITOL AVENUE
OMAHA, NEBRASKA 68102-9000

February 23, 2022

SUBJECT: Pre-application Coordination for Summit Carbon Solution's Midwest Carbon Express Pipeline Project

Mr. Robert Flying Hawk, Chairman
Yankton Sioux Tribe of South Dakota
PO Box 1153
Wagner, SD 57380

Dear Chairman Flying Hawk:

The U.S. Army Corps of Engineers (USACE) received preliminary information from Summit Carbon Solutions (Summit) for their proposed pipeline network in Iowa, Minnesota, Nebraska, North Dakota and South Dakota. Through their Midwest Carbon Express project (Project), Summit proposes to transport carbon dioxide from biorefineries across the five states to permanent underground storage in North Dakota (map enclosed).

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Summit Carbon Solutions Project - USACE Tribal Notification Letter Distribution List - 18 February 2022

Letter Addressed to:				Courtesy Copy to:		
Tribal Nation Name	Title	First Name	Last Name	Title	First Name	Last Name
Absentee-Shawnee Tribe of Indians of Oklahoma	Governor (c/o Representative Alicia Miller)	John	Johnson	THPO	Devon	Frazier Smith
Apache Tribe of Oklahoma	Chairman	Durell	Cooper	NAGPRA Coordinator	Darin	Cisco
Bad River Band of Lake Superior Chippewa	Chairman	Michael	Wiggins, Jr.	THPO	Edith	Leoso
Blackfeet Nation	Chairman	Timothy	Davis	THPO	John	Murray
Bois Forte Band of Chippewa	Chairwoman	Cathy	Chavers	THPO	Jaylen	Strong
Caddo Nation of Oklahoma	Chairman	Bobby	Gonzalez	THPO	Tamara	Francis
Cherokee Nation, Oklahoma	Principal Chief	Chuck	Hoskin, Jr.	THPO	Elizabeth	Toombs
Cheyenne and Arapahoe Tribes, Oklahoma	Governor	Reggie	Wassana	THPO	Max	Bear
Cheyenne River Sioux Tribe	Chairman	Harold	Frazier	THPO	Steven	Vance
Chippewa Cree Tribe of the Rocky Boy's Reservation	Chairman	Harlan	Baker	THPO	Jonathan	Windy Boy
Citizen Potawatomi Nation	Chairman	John	Barrett	THPO	Dr. Kelli	Mosteller
Comanche Nation, Oklahoma	Chairman	Mark	Woommavovah	THPO	Martina	Minthorn
Crow Creek Sioux Tribe	Chairman	Peter	Lengkeek	THPO	Merle	Marks
Crow Tribe of Montana	Chairman	Frank	White Clay	THPO	Aaron	Brien
Delaware Nation	President	Deborah	Dotson	Historic Preservation Director	Erin	Paden
Delaware Tribe of Indians	Chief	Brad	KillsCrow	THPO	Larry	Heady
Eastern Shawnee Tribe of Oklahoma	Chief	Glenna J.	Wallace	THPO	Paul	Barton
Eastern Shoshone of the Wind River Reservation	Chairman	John	St. Clair	THPO	Joshua	Mann
Flandreau Santee Sioux Tribe of South Dakota	President	Anthony	Reider	THPO	Garrie	Kills-A-Hundred
Fond du Lac Band of Lake Superior Chippewa	Chairman	Kevin	Dupuis	THPO	Evan	Schroeder
Forest County Potawatomi Community	Chairman	Ned	Daniels Jr.	Asst. THPO	Nicole	Reske
Fort Belknap Indian Community	President	Jeffery "Jeff"	Stiffarm	THPO	Michael	Blackwolf
Fort Peck Assiniboine and Sioux Tribe	Chairman	Floyd	Azure	THPO	Dyan	Youpee
Grand Portage Band of Lake Superior Chippewa	Chairman	Robert	Deschampe	THPO	Rob	Hull

Summit Carbon Solutions Project - USACE Tribal Notification Letter Distribution List - 18 February 2022

Letter Addressed to:				Courtesy Copy to:		
Tribal Nation Name	Title	First Name	Last Name	Title	First Name	Last Name
Hannahville Indian Community	Chairperson	Kenneth	Meshigaud	THPO	Earl	Meshigaud
Ho-Chunk Nation of Wisconsin	President	Marlon	WhiteEagle	THPO	William	Quackenbush
Iowa Tribe of Kansas and Nebraska	Chairperson	Tim	Rhodd	THPO	Lance	Foster
Iowa Tribe of Oklahoma	Chairman	Edgar	Kent, Jr.	THPO	Eagle	McClellan
Kaw Nation	Chairperson	Lynn	Williams	Interim NAGPRA POC	Stephanie	Richardson
Keweenaw Bay Indian Community	President	Kim	Klopstein	THPO	Gary	Loonsfoot, Jr.
Kialegee Tribal Town	Mekko	Brian	Givens	Section 106 Coordinator	Jeremiah	Hobia
Kickapoo Tribe of Indians of the Kickapoo Reservation in Kansas	Chairman	Lester	Randall	Vice Chairman	Fred	Thomas
Kickapoo Tribe of Oklahoma	Chairman	Darwin	Kakaske	Community Service Director of Cultural Preservation Dept.	Eddie	Anico
Kickapoo Traditional Tribe of Texas	Chairman	Juan	Garza, Jr.	None - No THPO, Unknown Cultural Resources or NAGPRA Point of Contact		
Kiowa Tribe of Oklahoma	Chairman	Matthew	Komalty	THPO (C/O Museum Assistant Eugenia Big Eagle	Dr. Phil	DuPoint
Lac Courte Oreilles Band of Lake Superior Chippewa	Chairman	Louis	Taylor	THPO	Brian	Bisonette
Lac du Flambeau Band of Lake Superior Chippewa	President	John	Johnson	THPO	Melinda	Young
Lac Vieux Desert Band of Lake Superior Chippewa	Chairman	James	Williams, Jr.	THPO	Alina	Shively
Leech Lake Band of Ojibwe	Chairman	Faron	Jackson	THPO	Amy	Burnette
Little Shell Band of Chippewa	Chairman	Gerald	Gray	THPO	Bob	O'Boyle
Little Traverse Bay Bands of Odawa Indians, Michigan	Chairperson	Regina	Gasco-Bentley	THPO	Melissa	Wiatroluk
Lower Brule Sioux Tribe	Chairman	Clyde	Estes	Cultural Resources Director	Christian	Skunk
Lower Sioux Indian Community	President	Robert	Larsen	THPO	Cheyenne	St. John
Match-E-Be-Nash-She-Wish Band of Potawatomi Indians	Chairman	Bob	Peters	THPO	Lakota	Pochedley

Note: Highlights in light gray used only to make the list easier to read.

Summit Carbon Solutions Project - USACE Tribal Notification Letter Distribution List - 18 February 2022

Letter Addressed to:				Courtesy Copy to:		
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Menominee Indian Tribe of Wisconsin	Chairman	Ron	Corn, Sr.	THPO	David	Grignon
Miami Tribe of Oklahoma	Chief	Douglas	Lankford	THPO	Diane	Hunter
Mille Lacs Band of Ojibwe	Chief Executive	Melanie	Benjamin	THPO	Terry	Kemper
Northern Arapaho	Chairman	Jordan	Dresser	THPO	Ben	Ridgely
Northern Cheyenne Tribe	Interim President	Serena	Wetherelt	THPO	Teanna	Limpy
Nottawaseppi Huron Band of the Potawatomi, Michigan	Chairman	Jamie	Stuck	THPO	Douglas R.	Taylor
Oglala Sioux Tribe	President	Kevin	Killer	THPO	Thomas	Brings
Omaha Tribe of Nebraska	Chairperson	Leander	Merrick	THPO	Thomas	Parker
Oneida Nation of Wisconsin	Chairman	Tehassi	Hill	THPO	Stacie	Cutbank
Osage Nation	Principal Chief	Geoffrey	Standing Bear	Director and THPO	Andrea A.	Hunter
Otoe-Missouria Tribe of Indians, Oklahoma	Chairman	John	Shotton	THPO	Elsie	Whitehorn
Pawnee Nation of Oklahoma	President	Walter	Echo-Hawk	THPO	Joseph (Matt)	Reed
Peoria Tribe of Indians of Oklahoma	Chief	Craig	Harper	Director of Cultural Preservation	Charla	Echo-Hawk
Pokagon Band of Potawatomi Indians, Michigan and Indiana	Chairwoman	Rebecca	Richards	THPO	Matthew	Bussler
Ponca Tribe of Nebraska	Interim Chairwoman	Rebecca	Sullivan	THPO	Staci	Laravie
Ponca Tribe of Oklahoma	Chairman	Oliver	Little Cook	THPO	Liana Staci	Hesler
Prairie Band of Potawatomi Nation	Chairperson	Joseph	Rupnick	Councilman, NAGPRA POC	Raphael	Wahwassuck
Prairie Island Indian Community	President	Johnny	Johnson	THPO	Noah	White
Red Cliff Band of Lake Superior Chippewa	Chairperson	Christopher	Boyd	THPO	Marvin	DeFoe
Red Lake Nation	Chairman	Darrell	Seki, Sr.	THPO	Kade	Ferris
Rosebud Sioux Tribe	President	Scott	Herman	THPO	Ione	Quigley
Sac & Fox Nation of Missouri in Kansas and Nebraska	Chairwoman	Tiauna	Carnes	Vice Chairperson, NAGPRA POC	Gary	Bahr
Sac & Fox Nation, Oklahoma	Principal Chief	Justin Freeland	Wood	NAGPRA Coordinator/THPO	Chris	Boyd
Sac & Fox Tribe of the Mississippi in Iowa	Chairman	Vern	Jefferson	THPO	Johnathan	Buffalo
				Environmental Branch Coordinator	Kelly	Schott

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Summit Carbon Solutions Project - USACE Tribal Notification Letter Distribution List - 18 February 2022

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Santee Sioux Nation, Nebraska	Chairman	Roger	Trudell	THPO	Misty	Flowers
Shakopee Mdewakanton Sioux Community	Chairman	Keith	Anderson	Cultural Resource Director	Leonard	Wabasha
Shoshone-Bannock Tribes of the Fort Hall Reservation	Chairman	Devon	Boyer	Cultural Resources Director	Louise E.	Dixey
Shawnee Tribe	Chief	Benjamin	Barnes	THPO	Tonya	Tipton
Sisseton-Wahpeton Oyate of the Lake Traverse Reservation, South Dakota	Chairman	Delbert	Hopkins, Jr.	THPO	Dianne	Desrosiers
Sokaogon Chippewa Community of Wisconsin (Sokaogon Mole Lake Chippewa Community)	Chairman	Robert	VanZile, Jr	THPO	Michael	LaRonge
Spirit Lake Tribe, North Dakota	Chairperson	Douglas	Yankton, Sr.	THPO	Kenneth	Graywater Jr.
St. Croix Band of Chippewa Indians	Chairman	William	Reynolds	THPO	Bruce	Sonnenburg
Standing Rock Sioux Tribe	Chairwoman	Janet	Alkire	THPO	Jon	Eagle, Sr.
Stockbridge-Munsee Community	President	Shannon	Holsey	THPO	Nathan	Allison
The Quapaw Tribe of Indians	Chairman	Joseph	Byrd	THPO	Everett	Bandy
Three Affiliated Tribes (Mandan, Hidatsa & Arikara Nation)	Chairman	Mark	Fox	THPO	Allan	Demaray
Turtle Mountain Band of Chippewa Indians	Chairman	Jamie	Azure	THPO	Jeffery	Desjarlais, Jr.
United Keetoowah Band of Cherokee of Oklahoma	Chief	Joe	Bunch	Section 106 Coordinator	Acee	Watt
Upper Sioux Community	Chairperson	Kevin	Jensvold	THPO	Samantha	Odegard
White Earth Band of the Minnesota Chippewa Tribe	Chairperson	Michael	Fairbanks	THPO and NAGPRA Representative	Jaime	Arsenault
Winnebago Tribe of Nebraska	Chairwoman	Victoria	Kitcheyan	THPO	Sunshine	Thomas-Bear
Yankton Sioux Tribe of South Dakota	Chairman	Robert	Flying Hawk	THPO	Kelli	Huapapi



August 31, 2021

RE: Summit Carbon Solution's Midwest Carbon Express CO₂ Capture, Pipeline, & Sequestration Project

Dear Sir or Madam:

Summit Carbon Solutions (Summit) has proposed developing a new carbon capture and storage project located in Iowa, Minnesota, North Dakota, South Dakota, and Nebraska. The project, Midwest Carbon Express (Project), will capture carbon dioxide (CO₂) that otherwise would be emitted into the atmosphere from biorefineries such as ethanol plants, compress the captured CO₂, and transport it through a pipeline to North Dakota where it will be permanently and safely stored underground in deep geologic storage locations. The proposed project will be capable of capturing and safely storing up to 12 million tons of CO₂ every year, which is the equivalent of removing 2.6 million cars from our roads on an annual basis.

A map of the proposed project is enclosed. The pipelines are expected to range in size from four to 24 inches in diameter. The Project is expected to require approximately 10 pump stations in the five states, as well as pumping facilities associated with the injection wells in North Dakota.

Summit has contracted with EXP, Merjent, and Perennial to begin the preliminary research and field studies for addressing potential project effects to cultural and biological resources. To assist Summit in this early phase of the Project, we would appreciate your review of the enclosed Project location map and your input about potential Tribal concerns about the Project at this time. We would be very interested in communicating with you and happy to sit down and further discuss the Project at your convenience.

The Project is in the early stages, and in addition to working with the U.S. Army Corps of Engineers (USACE) and other federal and state agencies, we invite your Tribe to participate in Project planning and survey efforts. Cultural surveys are scheduled to begin in September 2021. If your Tribe would like to provide individuals to accompany archaeological survey crews in certain states or specific locations, we will do our best to accommodate this request. Summit is also supportive of traditional cultural property studies. If your Tribe is interested, please contact myself or Erin Salisbury [REDACTED] to discuss these and other opportunities.

Summit is committed to a collaborative tribal engagement process that provides for meaningful information sharing and opportunities for input. We look forward to working with you on this Project.

A handwritten signature in black ink, appearing to read "James Powell".

James Powell
Chief Operating Officer

[REDACTED] m
[REDACTED]

Enclosure(s): Project Map
FAQ Sheet

FREQUENTLY ASKED QUESTIONS

Native American Tribes & Nations

1. How does Summit Carbon Solutions (SCS) support the Tribal Consultation Process?

The term “Tribal Consultation” refers to the meetings and other official communications and engagement between the Federal government and Native American Tribes as part of the special legal and political relationship between them. The United States must engage in meaningful consultation with Tribes, on a government-to-government basis, before making decisions on matters requiring Federal approval. As the proponent of the Midwest Carbon Express Project, SCS may not engage in Tribal Consultation, which is a process limited to governmental officials. However, SCS respects and strongly supports the Tribal Consultation process in several important ways.

- SCS is committed to providing timely and accurate Project information to all Tribes having historical, cultural and spiritual connections to the Project Area, as well as to Federal and State officials with jurisdiction over aspects of the Project. This information will be periodically updated and is available at <https://www.summitcarbonsolutions.com/TribalEngagement>.
- SCS representatives are prepared to meet (in person and/or virtually) with all Tribes interested in learning more about the Project. This includes building respectful and productive relationships with Tribal leaders, and providing specific and detailed Project information to Tribes, as may be requested, to address Tribes’ specific questions, ideas and concerns. To arrange such a meeting, please contact Erin Salisbury at [REDACTED] / [REDACTED]
- Finally, SCS understands and respects that some concerns expressed by Tribes, such as the location of cultural resources and traditional cultural properties, may be legally confidential under Federal law, Tribal law, or both. Accordingly, SCS is prepared to enter into appropriate confidentiality agreements with Tribes wishing to do so should Tribes wish to discuss such sensitive and important matters to address concerns with the proposed SCS Project.

2. Does SCS intend to use Tribal Monitors in connection with the Project?

Yes. SCS strongly supports the use of qualified Tribal Monitors on the Midwest Carbon Express Project. This includes during the surveying, construction and post-construction phases of the Project. Depending on the Tribes’ choice, SCS will consider (a) contracting directly with Tribes for the provision of Tribal Monitors; or (b) hiring individual citizens of Tribes in the Project Area as Tribal Monitors. The latter direct hiring of individual Tribal Monitors may also be carried out by SCS’ contractors and subcontractors. If your Tribe is interested in potentially providing Tribal Monitors to the Project or if you are a member of a federally recognized Tribe in the Project Area who is interested in being considered for a Tribal Monitor position, please contact Erin Salisbury at esalisbury@summitcarbon.com / 970.946.8698 for more information.

3. What is SCS’ protocol for addressing any inadvertent discoveries of human remains?

SCS is committed to complying with all laws governing such inadvertent discoveries, including the Native American Graves Protection and Repatriation Act. Because most of the Project will cross private lands subject to state jurisdiction, specific state laws may vary. However, most states require an immediate halt in construction or other earth-disturbing activity to determine if an inadvertent discovery involves human rather than animal remains, and, if so, whether those human remains are of

comparatively recent origin– thereby warranting additional investigation by local law enforcement – or historical or pre-historical. In the latter instance, it is ordinarily the landowners’ decision under state law as to how remains are to be treated, regardless if they are determined to be Native American or non-Native American. SCS will prepare Unanticipated Discovery Plans for each state to be reviewed and approved by the SHPOs, which will outline the specific steps that will be taken in the event of an unanticipated discovery including human remains.

Importantly, SCS’ approach is to encourage private landowners to work constructively and proactively with Tribal officials – to the maximum extent provided by state law – should any inadvertent discoveries of human remains occur on private land. The presence of Tribal Monitors during all major phases of the Project is an important way to strengthen this approach, and to keep Tribes informed of what is actually happening on and under the ground.

4. Will SCS support Tribal officials, including Tribal elders, who may wish to visit portions of the Project Area of particular cultural importance to Tribes?

SCS respects that Tribal citizens, including Tribal Historic Preservation Officers as well as Elders, may wish to visit certain portions of the Project Area, such as traditional cultural properties and sacred places, that are of historical, cultural and spiritual interest to their respective Tribes. Such visits may involve traditional ceremonies and other activities. SCS welcomes such requests by Tribal governments and will seek to accommodate them on a case-by-case basis. Please contact Erin Salisbury at [REDACTED] / [REDACTED]

5. How does SCS intend to promote Tribal employment in connection with the Project?

In addition to Tribal Monitoring, the Midwest Carbon Express Project includes both union and non-union employment opportunities that may be of interest to citizens of Native American Tribes in the Project Area. To help provide more information on these opportunities, SCS plans to host Tribal Employment Workshops. Each of these Tribal Employment Workshops will be in-person and also “virtual” so that interested persons may participate by videoconferencing or phone. At each workshop, Project representatives will discuss union and non-union employment related to the Project. Once scheduled, the locations and dates of these workshops will be communicated.

6. Will the Midwest Carbon Express Project provide any environmental and health benefits to Tribal members living in the Project Area?

The U.S. Environmental Protection Agency has documented that Native Americans disproportionately experience the adverse effects of air pollution as compared to many other communities. For instance, Native Americans suffer from asthma at nearly twice the national average, according to a February 20, 2021 EPA report. As the world’s largest carbon-sequestration project, Midwest Carbon Express will connect more than 30 ethanol facilities in Iowa, Minnesota, North Dakota, South Dakota and Nebraska; capture or “sequester” the 12 million tons of carbon dioxide that those plants emit every year; and permanently and safely store those greenhouse gases safely below ground. This is the equivalent of taking 2.6 million cars off the road annually and represents one of the most consequential steps that the United States can and will take to reach net-zero emissions by 2050. Less carbon pollution will benefit everyone living in the Project Area, including Tribal members.



**SCS MCE
Agency Contact Summary Form**

Communication Location: Virtual

Date/Time of Contact: January 25, 2022 / 9:45 – 10:45 am Central

Project Team Member(s): Megan Cochran (Perennial), Josh Melnar (Perennial), John Beaver (WESTECH) - recorder, Pete Christensen (WESTECH)

Contact Information:

Name:	Charlene Bessken (USFWS-SD); Drew Becker (USFWS-ND); Heidi Riddle (USFWS-ND); Matt Rabbe (USFWS-NE)
Title:	various
Organization:	U.S. Fish and Wildlife Service
Address:	NA
County:	NA
Phone:	various
E-mail address:	

Meeting Information:

Type of Contact: In-person Phone

Concern Level: High Moderate Low

SUBJECT OF MEETING: Federally-Listed Threatened and Endangered Species and Survey Requirements

Meeting Details:

1. Introduction/Project Summary:

Ms. Cochran summarized the Midwest Carbon Express (MCE) project regarding its location, the environmental survey work that has been done to date, remaining work to do, and probable mitigation measures to avoid impacting T&E species such as trenchless waterbody crossings on larger waterbodies (e.g., Platte or Missouri Rivers), or adhering to the Northern Long-Eared Bat (NLEB) 4(d) rule timing restrictions for tree removal (June 1 to July 31). She stated that the project was in the process of drafting habitat assessments with effects language for review by the Service and that for species where survey is required the effects would be undetermined. She stated that cultural surveys were being completed on 100% of the route. She also noted that the USACE is the lead federal agency on the project.



Mr. Becker asked if the USACE would assert authority over uplands and associated species and if consultation would occur between the USACE and the Service, or if the Service would be providing technical assistance to MCE. Ms. Cochran said she believed this would be technical assistance between the Service and MCE. Mr. Becker stated that if there is no USACE and no federal nexus then take coverage, if required, would be a function of Section 10. He stated that the Service would greatly prefer if no take coverage were needed. Ms. Cochran concurred that MCE is doing everything it can to avoid take and the need for formal consultation.

2. Species Survey Requirements and Methods:

Mr. Beaver noted that consultation letters had been generated via IPaC for the 3 states of interest, and that based on those letters the following species had been identified. Each species was discussed as to likelihood of presence, suitable habitat, and the mitigation measures noted above relative to whether survey would be useful, and if so, what type of survey and the timing of that survey.

2.1. Pallid Sturgeon, Scaleshell Mussel, Piping Plover, and Least Tern

All of these species are known to occur in large rivers (Platte, Missouri, and/or Loup) that will be crossed using the trenchless, HDD method. Mr. Rabbe also noted that scaleshell mussel occurs north of the Missouri River crossing, whereas one, or more of the remaining species could be present at one, or more, of these rivers. Mr. Rabbe asked if water would be removed for hydrostatic testing, and if so that MCE follow the intake screen requirements that were identified for the Keystone project. Ms. Cochran stated that water would be removed for testing but that no excavation would occur. Mr. Beaver stated that he would find the screen requirements for Keystone and include with these meeting notes for review. The Biological Opinion for Keystone re: intake screen size and pallid sturgeon states:

“Keystone will screen the intake end of any water withdrawal pump with mesh having openings no larger than 0.125 inch, a floating surface intake would be used to avoid the benthic habitat used by the sturgeon; water velocity at the screen would not exceed 12 centimeters per second to prevent entrainment of larval fish, and the intake screens would be periodically checked for fish impingement.”

Based on trenchless crossings of these rivers and using screens on intake hoses, the Service concluded that survey for Pallid Sturgeon, Scaleshell Mussel, Piping Plover, and Least Tern is not required.

2.2. Topeka Shiner

The route will cross Taylor Creek near Madison, NE within that portion of the creek designated as Critical Habitat for Topeka shiner. The species is already known to occur in this creek and the creek will be crossed using the trenchless, HDD method. Mr. Rabbe stated that as long as Taylor Creek was crossed using trenchless methods no survey was necessary.

The route also crosses at least two rivers in South Dakota, the James River and the Big Sioux River, where Topeka shiner has been known to occur. In addition, the route may cross other, smaller streams where Topeka shiner has been known to occur. Ms. Bessken stated that she would obtain and share a map of streams in SD where Topeka shiner have been located (this map was subsequently provided via SDGFP and is attached). Ms. Bessken noted that Natalie Gates, USFWS-SD Topeka shiner specialist stated, “if the project folks are working in any waterways connected to the ones on this map, and the stream has water in it (even if intermittent), they need to consider the shiner”. **Based on this assessment, survey for Topeka shiner in Nebraska is not required. In South Dakota, some survey for Topeka shiner may be required if not all waterbodies associated with Topeka shiner streams and rivers are crossed using a trenchless method or work windows that would avoid periods when shiner could be present.**

2.3. Northern Long-Eared Bat (NLEB)

The project occurs within the range of NLEB. However, very little wooded habitat that could contain a maternity roost tree, or other roost tree, will be affected. Most of the large, wooded areas are adjacent to large rivers. These forests would not be affected because the rivers will be crossed via HDD and the construction footprint will not remove trees. Based on data from NEGPC and SDGFP, there are no known maternity roost trees or hibernacula within miles of the project. Although the location of most maternity roost trees is unknown. Ms. Cochran re-iterated that the project intends to abide by the 4(d) rule and not remove any trees during the restriction window of June 1 to July 31. Ms. Bessken stated that as long as the project followed the 4(d) rule that survey would not be required. ***Based on this assessment, survey for NLEB is not required.***

2.4. Rufa Red Knot and Whooping Crane

Mr. Rabbe noted that survey for rufa red knot is not recommended in Nebraska because the species is very unlikely to occur. Ms. Bessken agreed that rufa red knot is similarly very infrequent in South Dakota, and Ms. Riddle stated that habitat for red knot is similar to that for piping plover so avoidance measures for plover would also protect red knot. ***Based on this assessment, survey for rufa red knot is not required.***

Portions of the project occurs within the primary migratory corridor for whooping crane. However, pre-construction surveys for the species would not necessarily help with mitigating impacts. Mr. Rabbe stated that the western portion of the project in Nebraska near Wood River is excellent whooping crane migration habitat. He also stated that portions of the route are within the 95% migration corridor and that there are several areas with appropriate stop-over and roosting habitat along the route. He stated that MCE could coordinate with him, or others with USFWS, to track whooping crane migration. He also stated that MCE should either avoid construction during the migration window, or adhere to other mitigation measures, such as stopping construction when birds are near, during construction. ***Based on this assessment, survey for whooping crane is not required.***

2.5. American Burying Beetle (ABB)

Ms. Cochran stated that MCE is contracting with Dr. Wyatt Hoback to identify habitat for ABB along the route and where surveys may be required. Based on information from NEGPC, the project is aware that ABB is very uncommon in Antelope County but is relatively common in Holt County. Mr. Rabbe concurred that as long as Dr. Hoback was conducting the habitat assessment and surveys, and coordinated with USFWS and NEGPC, that the work should be adequate. ***Survey for ABB is required in suitable habitat. MCE should submit a survey plan for review and concurrence prior to beginning work.***

2.6. Poweshiek Skipperling, Monarch, Dakota Skipper

Ms. Bessken noted that Poweshiek skipperling is likely extirpated in South Dakota. The species does not occur in either Nebraska or North Dakota. She stated that for Monarchs, recording the various species of milkweed where they occur would be adequate to assess habitat. ***Based on this assessment, survey for Poweshiek skipperling and Monarch is not required.***

There are some areas of Dakota skipper habitat in both South Dakota and North Dakota along the route. Mr. Beaver stated that Jim Reiser, who holds a collector's permit, works with WESTECH and will be the lead surveyor for Dakota skipper with other biologists working under his direction. He also stated that given the short survey window and challenges with weather and access, it may not be possible to fully comply with 3 separate surveys separated by 48 hours at all sites with habitat. If not, he suggested MCE identify habitat quality in lieu of completing surveys at all sites. Ms. Bessken stated this would be appropriate and the best alternative if all surveys could not be completed, she also stated that she would provide Dakota skipper survey protocols (these were provided later in the day). ***Survey for Dakota skipper is required in suitable habitat.***

2.7. Prairie Bush Clover and Western Prairie Fringed Orchid (WPFO)

Ms. Bessken stated that prairie bush clover does not occur in South Dakota and that its inclusion in the IPaC letter is some sort of problem with the system. ***Survey for prairie bush clover is not required.***

Mr. Beaver noted that the route will cross some areas of suitable habitat for WPFO in all 3 states. Primary surveyors for these species will be Dr. Kay Kottas, Alicia Admiraal, and himself. All surveyors have experience identifying habitat for these species, as well as the species themselves. Dr. Kottas and Ms. Admiraal are Nebraska residents. Mr. Beaver stated that he would prepare a survey study plan for review by USFWS. **Survey for western prairie fringed orchid is required in suitable habitat. MCE should submit a survey plan for review and concurrence prior to beginning work.**

2.8. Miscellaneous

Ms. Bessken noted that 4 Waterfowl Production Areas (WPA) will be crossed and the MCE needs to work with the refuges to determine what needs to be done as easements on those properties can be difficult.

She also noted that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act and that nests should not be disturbed.

Mr. Rabbe likewise brought up migratory birds under the Migratory Bird Protection Act, stating that incidental take is regulated again. Ms. Cochran stated that MCE intends to clear vegetation from the right-of-way prior to nesting as much as possible. There was some discussion on when the nesting season began in each state and Mr. Rabbe stated that he thought that had been defined for Keystone and could be used for MCE. Mr. Beaver said he would look up the nesting season dates from the last version of Keystone's migratory bird conservation plan. Those dates are:

- Montana (North Dakota would be similar): April 1 to July 15
- South Dakota: March 15 to July 15
- Nebraska: March 1 to July 15

In summary, USFWS recommends pre-construction survey in suitable habitat for the following species:

- American burying beetle
- Dakota skipper
- Western prairie fringed orchid
- Possibly Topeka shiner in South Dakota depending on crossing methods at particular streams

Surveys should be conducted during the appropriate season using appropriate protocols. WESTECH will provide USFWS with draft survey study plans for review prior to initiating field work.

ACTION ITEMS

1. Develop survey study plans for ABB, WPFO, Dakota skipper, and possibly Topeka shiner for agency review.
2. USFWS to provide Dakota skipper survey protocols – completed.
3. Determine water intake screen parameters from Keystone to avoid impacts to pallid sturgeon and other listed species within large rivers – completed and included with these notes.
4. Determine migratory bird nesting seasons by state from Keystone – completed and included with these notes.
5. Obtain Topeka shiner streams in South Dakota from SDGFP and determine crossing methods or survey requirement. Streams identified and included with these notes. Crossing method to be determined.

From: [Angie Ronayne](#)
To: [MCE Archive](#)
Subject: FW: EXTERNAL: RE: Summit Carbon Solutions - MCE Project Section 408 Discussion
Date: Monday, December 13, 2021 12:04:59 PM

Angie Ronayne, PE (she/her)

[REDACTED] direct
[REDACTED] mobile
[REDACTED]

From: Christopher Hill <[REDACTED]>
Sent: Monday, December 6, 2021 12:22 PM
To: Naomi Christenson <[REDACTED]>; Naomi Christenson <[REDACTED]>; Prosser, Michelle E CIV USARMY CEMVP (USA) <[REDACTED]> [REDACTED] Brandi Naughton <[REDACTED]>; Michael Aubele <[REDACTED]>
Cc: Angie Ronayne <[REDACTED]>
Subject: EXTERNAL: RE: Summit Carbon Solutions - MCE Project Section 408 Discussion

CAUTION: This email originated from outside of Merjent.

I appreciated your time and our discussion this morning. As promised, I've provided some links below. Please let us know if you have any questions or recommendations.

- Project Overview Video
 - [Summit Carbon Solutions 2021 - Bing video](#)
- Recent Summit Carbon project overview presentation recording
 - <http://www.appahydrogencarbon.com/wp-content/uploads/2021/11/Hill-Summit-Carbon-Solutions.mp4>
- MN EAW Process (we plan to complete a voluntary EAW)
 - [Quick Reference: Environmental Assessment Worksheet \(EAW\) \(state.mn.us\)](#)
- EPA UIC Class VI Well Regulations
 - [Class VI - Wells used for Geologic Sequestration of CO2 | US EPA](#)
- NDIC Class VI Well Regulations
 - [North Dakota Department of Mineral Resources \(nd.gov\)](#)
- DOE Carbon Sequestration FAQs
 - [Carbon Storage FAQs | netl.doe.gov](#)
- DOT PHMSA Part 195 Regulations
 - [49 CFR 195 | PHMSA \(dot.gov\)](#)
 - [Operations and Maintenance Enforcement Guidance Part 195 | PHMSA \(dot.gov\)](#)
 - [Pipeline and Hazardous Materials Safety Administration \(dot.gov\)](#)
- CARB Standards
 - [LCFS Regulation | California Air Resources Board](#)
 - [LCFS Credit Generation Opportunities | California Air Resources Board](#)

- IRS 45Q Requirements
 - [26 U.S. Code § 45Q - Credit for carbon oxide sequestration | U.S. Code | US Law | LII / Legal Information Institute \(cornell.edu\)](#)
 - [IF11639 \(congress.gov\)](#)

Appreciate you,
Chris

CHRISTOPHER HILL | P [REDACTED] | M [REDACTED] | [REDACTED]

-----Original Appointment-----

From: Naomi Christenson [REDACTED]
Sent: Saturday, December 4, 2021 5:46 PM
To: Naomi Christenson; Prosser, Michelle E CIV USARMY CEMVP (USA); [REDACTED]; Brandi Naughton; Michael Aubele
Cc: Angie Ronayne [REDACTED] Christopher Hill
Subject: FW: Summit Carbon Solutions - MCE Project Section 408 Discussion
When: Monday, December 6, 2021 11:00 AM-12:00 PM (UTC-06:00) Central Time (US & Canada).
Where: Microsoft Teams Meeting

-----Original Appointment-----

From: Naomi Christenson [REDACTED]
Sent: Friday, December 3, 2021 7:38 AM
To: Naomi Christenson; Prosser, Michelle E CIV USARMY CEMVP (USA); [REDACTED] Brandi Naughton; Michael Aubele
Cc: Angie Ronayne
Subject: Summit Carbon Solutions - MCE Project Section 408 Discussion
When: Monday, December 6, 2021 11:00 AM-12:00 PM (UTC-06:00) Central Time (US & Canada).
Where: Microsoft Teams Meeting

Please join us to discuss process, data needs, and schedule for the Midwest Carbon Express crossing of the Ottertail River.

Microsoft Teams meeting

Join on your computer or mobile app
[Click here to join the meeting](#)

Or call in (audio only)

[+1 612-299-2500](tel:+1612-299-2500), 470559940# United States, Minneapolis
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From: Hill, Laurel A <[REDACTED]>
Sent: Monday, September 27, 2021 4:52 PM
To: Amy Butler
Cc: Michael Aubele; Jon Schmidt; Christopher Hill; Jonathan Fredland; Angie Ronayne; Brandi Naughton; Trisa Fontenot; Megan Cochran; Boroja, Maria T; Bass, Amity A; Becker, Drew N; Bessken, Charlene; Riddle, Heidi L; Rabbe, Matt; Porath, Mark T
Subject: Re: [EXTERNAL] RE: Summit Carbon Solutions Midwest Carbon Express Follow-up and Route

Good afternoon Amy,

Following up from Summit's meetings with FWS Region 6's Ecological Services Field Offices (NE, ND, and SD) we are providing general comments and feedback regarding initial siting and project considerations. Please let me know if you have any questions.

At this time, we believe the use of IPaC will provide you the most beneficial information for your project planning, including a list of federally listed species that could be affected. We also recommend reaching out to each of the State wildlife agencies, and North Dakota Parks and Recreation (who has jurisdiction over plants) to develop data share agreements with the Natural Heritage Programs, and identify more specific known species locations, and known raptor and eagle nests.

We understand your team is working with USFWS Refuges and Wetland Management Districts to avoid and minimize potential impacts to fee lands and easements. We recommend continuing to work with these land managers to avoid impacts.

After a first look at the proposed line, we would also like to provide feedback on a few specific locations and general recommendations for minimization and avoidance. This feedback and information should not be viewed as comprehensive.

- Western prairie fringed orchids are known to occur along the proposed route in Richland County, North Dakota, and in Nebraska, in the immediate vicinity of approximately 27 miles of the proposed route (see referenced route segments below)
- Platte River crossing: Water use and resulting depletions to the Platte River could result in adverse effects to the piping plover, pallid sturgeon, and whooping crane. We recommend, depletions to the Platte be avoided or withdrawals be limited to temporary uses (e.g., hydrostatic testing), and returned to the river within 30 days. For many major river or creek crossing (including the Platte), we recommend the project use directional pipeline boring under the river at a sufficient depth to avoid the potential for adverse impacts.\
- In general, avoiding grasslands, and other native habitats is always recommended.
- Where compatible with ongoing land use activities, restore vegetation along the line with diverse and location appropriate seed mixes that provide a diversity of blooming nectar resources. Employ vegetation management and monitoring practices to identify and remove invasive species.
- Avoid and minimize impacts in Important Bird Areas associated with the line.
- As discussed during initial meetings, directional boring is prudent in sensitive areas and wetland and waterbody crossings. Depending on location, timing restrictions and boring for specific crossings may avoid or minimize impacts to federal trust species.
- Seasonal avoidance and minimization measures may be recommended to reduce or eliminate impacts (from construction) during critical time periods if suitable habitat for federally listed species occurs (e.g. nesting season for piping plovers, migration season for whooping cranes, migratory bird nesting periods, etc.).

- Impacts to western prairie fringed orchids may be minimized or avoided by placing the pipeline in or near existing ROWs and using approved treatments (herbicides, depending on location) when maintaining the ROW.
- Micro-siting recommendations may be made to reduce or eliminate impacts (from construction) depending on the type of vegetation removal/disturbance, and route location.
- Conduct eagle nest surveys along the route and follow State and Federal guidance to avoid and minimize impacts.
- Conduct habitat assessment for Dakota skippers along the route, areas with suitable habitat should be avoided or surveyed for presence/absence
- Outside of known occurrence areas (above), survey potential habitat for western prairie fringed orchids along the route and avoid or re-route around habitat where the plant may be present. Impacts to western prairie fringed orchids may be minimized or avoided by placing the pipeline in or near existing ROWs and using approved treatments (herbicides, depending on location) when maintaining the ROW.
- Specifically, for whooping cranes in North Dakota, contact Adam Ryba with the Service's Habitat and Population Evaluation Team at [REDACTED] HAPET created a predictive map showing relative probability of occurrence of migrating whooping cranes in North Dakota.
-

From the route point indicated below, NGPC Nebraska Natural Heritage Program indicates past or present records for western prairie fringed orchid in the immediate vicinity of the pipeline route for the portion extending Northeast for 12 miles, as well as Southeast for 15 miles.

OBJECTID 7302
 Shape Point
 id d4566be4-3eae-49c9-aaaa-884e9e7c2252
 route_id 28d65a71-803c-4ab8-a548-5319bc506553
 measure 103918.647586
 mile_post 64.57
 is_half 1
 is_whole 1
 is_ten 1
 is_hundred 1
 routename NEL-313
 issuedate 8/26/2021

Additionally, there are records in the vicinity (NW of) the segment listed below.

OBJECTID 17928
 Shape Point
 id d607ef1f-23d4-4eaf-853b-041e0de9c492
 route_id 0803812d-8dc6-4427-85dd-7c4aa0e0c174
 measure 104286.759327
 mile_post 64.8
 is_half 0
 is_whole 0
 is_ten 0
 is_hundred 0
 routename NEL-312
 issuedate 8/26/2021

 Laurel Hill ([She/her](#))

Energy and Infrastructure Coordinator
Branch of Landscape Conservation & Restoration
Mountain-Prairie Regional Office

U.S. Fish and Wildlife Service
134 Union Blvd. Ste. 645
Lakewood, CO 80228
[REDACTED]

From: Amy Butler <[REDACTED]>
Sent: Thursday, September 9, 2021 10:03 AM
To: Megan Cochran <[REDACTED]>; Porath, Mark T <[REDACTED]>; Rabbe, Matt <[REDACTED]>; Hill, Laurel A <[REDACTED]>; Melissa Marinovich NGPC <[REDACTED]>; Bass, Amity A <[REDACTED]>; Johnson, Jessica N <[REDACTED]>; Becker, Drew N <[REDACTED]>; Frerichs, Todd <[REDACTED]>; Donohue, Robin <[REDACTED]>; Beyer, Jonathan <[REDACTED]>; Comeau, Shilo <[REDACTED]>; Hansen, Natoma <[REDACTED]>; Johnson, Brad <[REDACTED]>; Schultz, Bryan <[REDACTED]>; Azure, Dave <[REDACTED]>; Tompkins, Kurt <[REDACTED]>; Fitzmorris, Patrick J <[REDACTED]>; halko@fws.gov <[REDACTED]>; Hourt, Jacob S <[REDACTED]>; Luke, Todd <[REDACTED]>; Henderson, Wayne <[REDACTED]>; Newton, Jared <[REDACTED]>; Baer, Kathy <[REDACTED]>; Boyle, Barbara <[REDACTED]>; Lofgren, Sean J <[REDACTED]>; Krohn, Brad <[REDACTED]>; Sprenger, Matt <[REDACTED]>; Bessken, Charlene <[REDACTED]>
Cc: Michael Aubele <[REDACTED]>; Jon Schmidt <[REDACTED]>; Christopher Hill <[REDACTED]>; Jonathan Fredland <[REDACTED]>; Angie Ronayne <[REDACTED]>; Brandi Naughton <[REDACTED]>; Trisa Fontenot <[REDACTED]>
Subject: [EXTERNAL] RE: Summit Carbon Solutions Midwest Carbon Express Follow-up and Route

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Good morning,

I hope everyone is doing well. We have received information and questions about the Project from several of you since our call and we greatly appreciate the insight. For those of you who are still reviewing the information we provided, please let me know if you have any questions or need any additional information.

Thank you,



Amy Butler
Environmental Project Manager

Perennial Environmental Services, LLC
13100 Northwest Freeway, Suite 150, Houston, Texas 77040
Office: [REDACTED] | Mobile: [REDACTED]
[REDACTED] www.perennialenv.com

From: [Michael Aubele](#)
To: [Laux, Eric A CIV USARMY CENWO \(USA\)](#); [REDACTED]
Cc: [Christopher Hill](#); [Jon Schmidt](#); [Megan Cochran](#); [jonathan fredland](#); [Brandi Naughton](#); [Erin Salisbury](#)
Subject: EXTERNAL: Summit Carbon Solutions - Midwest Carbon Express Project
Date: Saturday, August 28, 2021 10:43:59 AM
Attachments: [image001.png](#)
[SCS_Midwest_Carbon_Express_08.26.21.kmz](#)
[MCE_IssuedRouting_20210826.qdb.zip](#)

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Eric, Greatly appreciate you setting up and coordinating the introductory meeting this past week so we could get the messaging out for the Project. As always, look forward to working with you and your staff again on yet another interstate pipeline system.

Ward and Chad, Great meeting you as well even if just over the computer screen. We do look forward to the opportunity to meet with you in person at some point in the future as well.

Anyhow, attached are the shapefiles and kmz for the Summit Carbon Solution's Midwest Carbon Express (MCE) Project as discussed. Please distribute as appropriate to your staff and provide us some feedback when you are able. As mentioned on the call, we are just getting going with surveys, but it is going to be a many crew exercise over the next few months to complete surveys on as much of the available tracts before the end of this calendar year so we can provide as complete an application(s) as possible. We recognize a lot of coordination on your parts is necessary for figuring out how to handle some of the cross districts (and division) laterals, but interested in your feedback on those as well. We anticipate filing for the verifications and RGPs sometime mid Q1 2022, so have some time but we plan to keep in close communication with you throughout the field process so we know where we are headed when we submit. That said, if you are able to provide some points of contact for who you think will be the leads in your respective districts, that would be helpful so we aren't necessarily having to bother you all with the details.

If you would please forward these files to your respective Operations Chiefs and 408 Coordinators that would also be greatly appreciated. That is one element that we are very sensitive to based on a lot of experience there in the recent past across many districts. Though this is very different being a CO2 project, we still anticipate and understand the time that can be associated with those reviews and public noticing, so we are hopeful to get those processes and reviews started as soon as possible so any necessary permissions don't end up causing schedule delays. I know who the individuals are in Omaha, but providing these POCs in Rock Island and St. Paul would also be appreciated.

I will reach out to you guys later probably next week to discuss some items Chad brought up about our Tribal engagement plans which I fully appreciate, agree with, and understand. I think it would be good for us to start coordinating with Joel Ames in Omaha and the respective Tribal Liasons in Rock Island and St. Paul so your districts are in the know on everything Summit is doing as part of its engagement initiative. Really looking forward to working with all of you on this Project.

Thanks and call or email if you any questions, thoughts, or need anything else. Have a good weekend.

Mike



Michael C. Aubele

EXP | Vice President, Environmental and Regulatory

m : [REDACTED] | e [REDACTED]

1800 West Loop South

Suite 850

Houston, TX 77027

USA

exp.com | [legal disclaimer](#)

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From: [Michael Aubele](#)
To: [Laux, Eric A CIV USARMY CENWO \(USA\)](#) [REDACTED]
Cc: [Christopher Hill](#); [Jon Schmidt](#); [Megan Cochran](#); [jonathan fredland](#); [Brandi Naughton](#); [Erin Salisbury](#)
Subject: EXTERNAL: Summit Carbon Solutions - Midwest Carbon Express Project
Date: Saturday, August 28, 2021 10:43:59 AM
Attachments: [image001.png](#)
[SCS_Midwest_Carbon_Express_08.26.21.kmz](#)
[MCE_IssuedRouting_20210826.qdb.zip](#)

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Eric, Greatly appreciate you setting up and coordinating the introductory meeting this past week so we could get the messaging out for the Project. As always, look forward to working with you and your staff again on yet another interstate pipeline system.

Ward and Chad, Great meeting you as well even if just over the computer screen. We do look forward to the opportunity to meet with you in person at some point in the future as well.

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Thanks and call or email if you any questions, thoughts, or need anything else. Have a good weekend.

Mike



Michael C. Aubele

EXP | Vice President, Environmental and Regulatory

m : [REDACTED] | e [REDACTED]

1800 West Loop South

Suite 850

Houston, TX 77027

USA

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From: Becker, Drew N <[REDACTED]>
Sent: Thursday, August 19, 2021 10:47 AM
To: Amy Butler
Cc: Megan Cochran; Riddle, Heidi L
Subject: Re: [EXTERNAL] RE: Midwest Carbon Express Project - Request for Pre-Application Meeting and Information

Hi Megan,

Thanks for reaching out and I look forward to learning more about this project. Heidi on my staff will be in touch to set up a meeting time that works for all.

Drew

Drew Becker
North Dakota Ecological Services Supervisor
U.S. Fish and Wildlife Service
3425 Miriam Avenue
Bismarck, North Dakota 58501
Office [REDACTED]
Cell [REDACTED]
[REDACTED]

Our Mission is to work with others to conserve, protect and enhance fish, wildlife and plants and their habitats for the continuing benefit of the American people.

NOTE: This email correspondence and any attachments to and from this sender is subject to the Freedom of Information Act (FOIA) and may be disclosed to third parties.

From: Amy Butler <[REDACTED]>
Sent: Thursday, August 19, 2021 10:44 AM
To: Becker, Drew N <[REDACTED]>
Cc: Megan Cochran <[REDACTED]>
Subject: [EXTERNAL] RE: Midwest Carbon Express Project - Request for Pre-Application Meeting and Information

This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

Good morning Mr. Becker.

Todd Frerichs contacted me and mentioned you had asked him to get in touch with me regarding the refuge system and coordination for potential crossings of FWS easements. Thank you for forwarding him my information. We have been coordinating to set up a call with him and others in his group that may have interest in this project.

I would still like to set up a call with your office as well to discuss trust resources in North Dakota and considerations we should take as we work through the project. Could you please let me know a good time for you and/or your team in the next week or two to have a meeting to introduce you to the project?

Thank you and I look forward to hearing from you.



Amy Butler
Environmental Project Manager

Perennial Environmental Services, LLC
13100 Northwest Freeway, Suite 150, Houston, Texas 77040
Office: [REDACTED] | Mobile: [REDACTED]
[REDACTED] | www.perennialenv.com

From: Amy Butler
Sent: Wednesday, August 11, 2021 1:43 PM
To: [REDACTED]
Cc: Megan Cochran [REDACTED] >
Subject: Midwest Carbon Express Project - Request for Pre-Application Meeting and Information

Good afternoon, Mr. Becker.

I am currently working on a large pipeline project, known as Midwest Carbon Express, that is located throughout several states in the Midwest, including North Dakota. Our team at Perennial is responsible for all project survey, environmental permitting, and coordination within North Dakota, South Dakota, and Nebraska, approximately 1,100 miles of the project in total. We are currently working on finalizing the project routes and I would like to set up a virtual pre-application meeting with your office in the next few weeks to discuss the project further. I understand the importance of coordinating with FWS as early in the process as possible. If feasible, we would like the meeting to include species specialists, Section 7 reviewers, WMD representatives, and any other staff that you feel would be appropriate.

Based on publicly available GIS data, the project crosses through several FWS easements, mainly Waterfowl Production Areas. I do have several questions related to constructing through these areas that I would like to discuss further, including the following:

- In order to ensure that we are using the most current data available as we assist the project team in route development, could you please provide a kmz or shapefile of all areas that are owned or otherwise controlled (e.g. easements, etc.) by the FWS in North Dakota?
- We are also looking to mobilize our biological and cultural field crews to conduct wetland and waterbody delineations, habitat assessments, and cultural resource surveys starting next month.

What permissions or permits are needed to access easement areas or properties owned by FWS?

To provide a little more context, most of the easement crossings appear to be within the Klum WMD and Tewaukon WMD. The project is also within the Long Lake WMD, but does not appear to cross any easements.

From past project experience, I understand that crossing these lands will require extensive coordination with your office, including a NEPA review and development of EA(s). If you have any questions or require any additional information from me, please do not hesitate to reach out to me by email or phone. I appreciate your time and attention to this project and look forward to coordinating with your office further.



Amy Butler
Environmental Project Manager

Perennial Environmental Services, LLC
13100 Northwest Freeway, Suite 150, Houston, Texas 77040
Office: [REDACTED] | Mobile: [REDACTED]
[REDACTED] | www.perennialenv.com

From: Hill, Laurel A <[REDACTED]>
Sent: Monday, September 27, 2021 4:52 PM
To: Amy Butler
Cc: Michael Aubele; Jon Schmidt; Christopher Hill; Jonathan Fredland; Angie Ronayne; Brandi Naughton; Trisa Fontenot; Megan Cochran; Boroja, Maria T; Bass, Amity A; Becker, Drew N; Bessken, Charlene; Riddle, Heidi L; Rabbe, Matt; Porath, Mark T
Subject: Re: [EXTERNAL] RE: Summit Carbon Solutions Midwest Carbon Express Follow-up and Route

Good afternoon Amy,

Following up from Summit's meetings with FWS Region 6's Ecological Services Field Offices (NE, ND, and SD) we are providing general comments and feedback regarding initial siting and project considerations. Please let me know if you have any questions.

At this time, we believe the use of IPaC will provide you the most beneficial information for your project planning, including a list of federally listed species that could be affected. We also recommend reaching out to each of the State wildlife agencies, and North Dakota Parks and Recreation (who has jurisdiction over plants) to develop data share agreements with the Natural Heritage Programs, and identify more specific known species locations, and known raptor and eagle nests.

We understand your team is working with USFWS Refuges and Wetland Management Districts to avoid and minimize potential impacts to fee lands and easements. We recommend continuing to work with these land managers to avoid impacts.

After a first look at the proposed line, we would also like to provide feedback on a few specific locations and general recommendations for minimization and avoidance. This feedback and information should not be viewed as comprehensive.

- Western prairie fringed orchids are known to occur along the proposed route in Richland County, North Dakota, and in Nebraska, in the immediate vicinity of approximately 27 miles of the proposed route (see referenced route segments below)
- Platte River crossing: Water use and resulting depletions to the Platte River could result in adverse effects to the piping plover, pallid sturgeon, and whooping crane. We recommend, depletions to the Platte be avoided or withdrawals be limited to temporary uses (e.g., hydrostatic testing), and returned to the river within 30 days. For many major river or creek crossing (including the Platte), we recommend the project use directional pipeline boring under the river at a sufficient depth to avoid the potential for adverse impacts.\
- In general, avoiding grasslands, and other native habitats is always recommended.
- Where compatible with ongoing land use activities, restore vegetation along the line with diverse and location appropriate seed mixes that provide a diversity of blooming nectar resources. Employ vegetation management and monitoring practices to identify and remove invasive species.
- Avoid and minimize impacts in Important Bird Areas associated with the line.
- As discussed during initial meetings, directional boring is prudent in sensitive areas and wetland and waterbody crossings. Depending on location, timing restrictions and boring for specific crossings may avoid or minimize impacts to federal trust species.

- Seasonal avoidance and minimization measures may be recommended to reduce or eliminate impacts (from construction) during critical time periods if suitable habitat for federally listed species occurs (e.g. nesting season for piping plovers, migration season for whooping cranes, migratory bird nesting periods, etc.).
- Impacts to western prairie fringed orchids may be minimized or avoided by placing the pipeline in or near existing ROWs and using approved treatments (herbicides, depending on location) when maintaining the ROW.
- Micro-siting recommendations may be made to reduce or eliminate impacts (from construction) depending on the type of vegetation removal/disturbance, and route location.
- Conduct eagle nest surveys along the route and follow State and Federal guidance to avoid and minimize impacts.
- Conduct habitat assessment for Dakota skippers along the route, areas with suitable habitat should be avoided or surveyed for presence/absence
- Outside of known occurrence areas (above), survey potential habitat for western prairie fringed orchids along the route and avoid or re-route around habitat where the plant may be present. Impacts to western prairie fringed orchids may be minimized or avoided by placing the pipeline in or near existing ROWs and using approved treatments (herbicides, depending on location) when maintaining the ROW.
- Specifically, for whooping cranes in North Dakota, contact Adam Ryba with the Service's Habitat and Population Evaluation Team at [REDACTED] HAPET created a predictive map showing relative probability of occurrence of migrating whooping cranes in North Dakota.
-

From the route point indicated below, NGPC Nebraska Natural Heritage Program indicates past or present records for western prairie fringed orchid in the immediate vicinity of the pipeline route for the portion extending Northeast for 12 miles, as well as Southeast for 15 miles.

OBJECTID 7302
 Shape Point
 id d4566be4-3eae-49c9-aaaa-884e9e7c2252
 route_id 28d65a71-803c-4ab8-a548-5319bc506553
 measure 103918.647586
 mile_post 64.57
 is_half 1
 is_whole 1
 is_ten 1
 is_hundred 1
 routename NEL-313
 issuedate 8/26/2021

Additionally, there are records in the vicinity (NW of) the segment listed below.

OBJECTID 17928
 Shape Point

id d607ef1f-23d4-4eaf-853b-041e0de9c492
route_id 0803812d-8dc6-4427-85dd-7c4aa0e0c174
measure 104286.759327
mile_post 64.8
is_half 0
is_whole 0
is_ten 0
is_hundred 0
routename NEL-312
issuedate 8/26/2021

Laurel Hill ([She/her](#))
Energy and Infrastructure Coordinator
Branch of Landscape Conservation & Restoration
Mountain-Prairie Regional Office

U.S. Fish and Wildlife Service
134 Union Blvd. Ste. 645
Lakewood, CO 80228
[REDACTED]

From: Amy Butler <[REDACTED]>
Sent: Thursday, September 9, 2021 10:03 AM
To: Megan Cochran <[REDACTED]>; Porath, Mark T <[REDACTED]>; Rabbe, Matt <[REDACTED]>; Hill, Laurel A <[REDACTED]>; Melissa Marinovich NGPC <[REDACTED]>; Bass, Amity A <[REDACTED]>; Johnson, Jessica N <[REDACTED]>; Becker, Drew N <[REDACTED]>; Frerichs, Todd <[REDACTED]>; Donohue, Robin <[REDACTED]>; Beyer, Jonathan <[REDACTED]>; Comeau, Shilo <[REDACTED]>; Hansen, Natoma <[REDACTED]>; Johnson, Brad <[REDACTED]>; Schultz, Bryan <[REDACTED]>; Azure, Dave <[REDACTED]>; Tompkins, Kurt <[REDACTED]>; Fitzmorris, Patrick J <[REDACTED]>; [REDACTED] <[REDACTED]>; Hourt, Jacob S <[REDACTED]>; Luke, Todd <[REDACTED]>; Henderson, Wayne <[REDACTED]>; Newton, Jared <[REDACTED]>; Baer, Kathy <[REDACTED]>; Boyle, Barbara <[REDACTED]>; Lofgren, Sean J <[REDACTED]>; Krohn, Brad <[REDACTED]>; Sprenger, Matt <[REDACTED]>; Bessken, Charlene <[REDACTED]>
Cc: Michael Aubele <[REDACTED]>; Jon Schmidt <[REDACTED]>; Christopher Hill <[REDACTED]>; Jonathan Fredland <[REDACTED]>; Angie Ronayne <[REDACTED]>; Brandi Naughton <[REDACTED]>; Trisa Fontenot <[REDACTED]>
Subject: [EXTERNAL] RE: Summit Carbon Solutions Midwest Carbon Express Follow-up and Route

We would greatly appreciate your feedback on the current Project route, including information/locations of listed species occurrences in the Project vicinity as well as areas managed or controlled by USFWS, and any other specific areas of concern or interest where you recommend we focus our routing and construction methodologies.

We sincerely appreciate your feedback and insight received thus far and look forward to continuing to work with you in the future on this Project.

Please, let us know if you have any questions or if we can provide any further information at this time.

Thank you,



Megan Cochran
Environmental Project Manager

Perennial Environmental Services, LLC
13100 Northwest Freeway, Suite 150, Houston, Texas 77040
Mobile: [REDACTED]
[REDACTED] www.perennialenv.com

Angie Wagner

From: Wilson, Eric D <[REDACTED]>
Sent: Monday, September 20, 2021 6:58 AM
To: Amy Butler
Cc: Megan Cochran
Subject: Re: [EXTERNAL] RE: Summit Carbon Solutions Midwest Carbon Express
Attachments: MCE_Sargent_County.pdf

Hi Amy,

Attached a map of the easement in Sargent County the pipeline is currently routed through. Looks to me that if you bumped the route up to the section line on the N boundary of the sec 7 you could avoid having any impacts on FWS easements in my district.

Let me know if you have any questions.

Thanks,

Eric Wilson
Wildlife Refuge Specialist
Tewaukon National Wildlife Refuge Complex
9754 143 1/2 Ave SE
Cayuga, ND 58013
O) [REDACTED]
C) [REDACTED]
[REDACTED]
<https://www.fws.gov/refuge/tewaukon>

From: Amy Butler <[REDACTED]>
Sent: Thursday, September 16, 2021 3:45 PM
To: Wilson, Eric D <[REDACTED]>
Cc: Megan Cochran <[REDACTED]>
Subject: RE: [EXTERNAL] RE: Summit Carbon Solutions Midwest Carbon Express

Thank you. I appreciate it!



Amy Butler
Environmental Project Manager

Perennial Environmental Services, LLC
13100 Northwest Freeway, Suite 150, Houston, Texas 77040
Office: [REDACTED] | Mobile: [REDACTED]
[REDACTED] www.perennialenv.com

From: Wilson, Eric D <[REDACTED]>
Sent: Thursday, September 16, 2021 3:44 PM

To: Amy Butler <[REDACTED]>
Cc: Megan Cochran <[REDACTED]>
Subject: Re: [EXTERNAL] RE: Summit Carbon Solutions Midwest Carbon Express

Hi Amy,

I did get a copy of the route. I should be able to get a map put together for you tomorrow, but it may be early next week if something comes up.

Eric Wilson
Wildlife Refuge Specialist
Tewaukon National Wildlife Refuge Complex
9754 143 1/2 Ave SE
Cayuga, ND 58013
O) [REDACTED]
C) [REDACTED]
[REDACTED]
<https://www.fws.gov/refuge/tewaukon>

From: Amy Butler <[REDACTED]>
Sent: Thursday, September 16, 2021 3:40 PM
To: Wilson, Eric D <[REDACTED]>
Cc: Megan Cochran <[REDACTED]>
Subject: [EXTERNAL] RE: Summit Carbon Solutions Midwest Carbon Express

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Hi Eric.

I wanted to check in with you and make sure you had been provided with a copy of the route kmz for the Project. Based on my review, it looks like we may intersect two wetland easements in your district, but I would like to make sure there aren't any other areas we may not have data for. The other WMDs have been providing the easement maps for the wetland easements crossed by the project so that we can easily identify the FWS interests. If you have any questions or need any additional data, please do not hesitate to contact me.

Thank you,



Amy Butler
Environmental Project Manager

Perennial Environmental Services, LLC
13100 Northwest Freeway, Suite 150, Houston, Texas 77040
Office: [REDACTED] | Mobile: [REDACTED]
[REDACTED] | www.perennialenv.com

From: Wilson, Eric D [REDACTED]
Sent: Thursday, September 9, 2021 2:45 PM
To: Amy Butler [REDACTED] >
Subject: Summit Carbon Solutions Midwest Carbon Express

Hi Amy,

I am currently acting as the manager for the Tewaukon Wetland Management District in SE North Dakota, in an area your project will be routed through. I've had a few of your recent communications for the project forwarded to me, would you mind adding my email to your mailing list for that project?

Thank you,

Eric Wilson
Wildlife Refuge Specialist
Tewaukon National Wildlife Refuge Complex
9754 143 1/2 Ave SE
Cayuga, ND 58013

O) [REDACTED]

C) [REDACTED]

[REDACTED]

<https://www.fws.gov/refuge/tewaukon>

Angie Wagner

From: Newton, Jared <[REDACTED]>
Sent: Wednesday, January 26, 2022 1:53 PM
To: Megan Cochran
Subject: Re: [EXTERNAL] RE: Summit Carbon Solutions - Updated Midwest Carbon Express Project Route
Attachments: Long Lake Grass Easements.zip; EM 235X.jpg

Megan,

Attached is a shapefile for the 3 grass easements (4 tracts) in the immediate area as well as a map of the wetland areas in Section 7. I don't believe I have those digitized yet. It doesn't appear that the pipeline route would intersect any wetland areas, but goes through about a half mile of grassland easement before making a turn to the NW and out of the easement. Going to the north or south of the easement cluster would avoid impacts. Let me know what you think.

Jared Newton
Station Manager
Long Lake NWR Complex
[REDACTED]

c) [REDACTED]

From: Megan Cochran <[REDACTED]>
Sent: Wednesday, January 26, 2022 3:28 PM
To: Newton, Jared <[REDACTED]>
Subject: [EXTERNAL] RE: Summit Carbon Solutions - Updated Midwest Carbon Express Project Route

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Thank you for reviewing and reaching out, Jared. Do you have sketches or kmz's/shapefiles of the easement boundaries and protected wetlands on the easements?

Thanks again,
Megan



Megan Cochran
Senior Environmental Project Manager

Perennial Environmental Services, LLC
13100 Northwest Freeway, Suite 150, Houston, Texas 77040
Mobile: [REDACTED]
[REDACTED] | www.perennialenv.com

From: Newton, Jared <[REDACTED]>
Sent: Wednesday, January 26, 2022 3:23 PM
To: Megan Cochran <[REDACTED]>
Subject: Summit Carbon Solutions - Updated Midwest Carbon Express Project Route

Hello Megan,
I am the Station Manager at Long Lake Refuge in Moffit, ND. I manage FWS lands and easements in Burleigh, Emmons and Kidder counties of North Dakota. I received your most recent project route to review for conflicts as well as the original route a few months ago. The original route did not intersect any of our fee or easement interests, so I stepped out of the conversations. The newest route does intersect a wetland and grassland easement in Emmons county and I was asked to contact you directly to see if we could figure out a way to avoid impacts. The easements are located in Section 7, T. 136 N., R. 77 W. I am happy to get you any further information you may need. I am generally in the office, but feel free to use my cell number if you like.

Jared Newton
Station Manager
Long Lake NWR Complex
[REDACTED] 4
c) [REDACTED]

From: Luke, Todd <[REDACTED]>
Sent: Monday, January 24, 2022 1:47 PM
To: Baer, Kathy <[REDACTED]>; Henderson, Wayne <[REDACTED]>; Newton, Jared <[REDACTED]>
Subject: Fw: [EXTERNAL] Summit Carbon Solutions - Updated Midwest Carbon Express Project Route

Please review the revised routes and let me know if you have any concerns. Thanks much!

From: Megan Cochran <[REDACTED]>
Sent: Monday, January 24, 2022 9:49 AM
To: Hansen, Natoma <[REDACTED]>; Frerichs, Todd <[REDACTED]>; Comeau, Shilo <[REDACTED]>; Beyer, Jonathan <[REDACTED]>; Wilson, Eric D <[REDACTED]>; Henderson, Wayne <[REDACTED]>; Luke, Todd <[REDACTED]>; Rohlck, Thomas R <[REDACTED]>
Cc: Hill, Laurel A <[REDACTED]>
Subject: [EXTERNAL] Summit Carbon Solutions - Updated Midwest Carbon Express Project Route

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Good morning,

It's been a while since we last provided an update regarding Summit Carbon Solutions' proposed Midwest Carbon Express Project. Following our initial project meeting last fall, we received many different datasets with wetland and grassland easements from all of you. We have since been diligently reworking and refining the Project routes to avoid these areas to the extent practicable.

The attached kmz's present the latest draft centerline and workspaces for the Project. I've included a separate milepost kmz for reference (note, this one gives my Google Earth trouble due to file size, which is why I've separated).

Would you all mind performing an additional review and let me know if there are any protected wetland crossings that we have missed?

Note – there are a few locations where the pipeline crosses a grassland easement. These areas will be crossed via air bridge/bore or via horizontal directional drill (HDD). No surficial impacts on grassland easements are proposed for the Project.

There are a few areas where we will need to impact delineated wetlands on wetland easements. These wetlands were delineated in the field but are not shown as protected wetlands on easement drawings. Will impacts on these delineated wetlands (outside of protected wetlands) trigger the NEPA process and require a Special Use Permit?

We sincerely appreciate your review and expertise as we continue to improve the Project.

Please, let me know if you have any questions or if I can provide anything further.

Thank you,
Megan



Megan Cochran

Senior Environmental Project Manager

Perennial Environmental Services, LLC

13100 Northwest Freeway, Suite 150, Houston, Texas 77040

Mobile: [REDACTED]

[REDACTED] | www.perennialenv.com

NORTH
Dakota | Water Resources
Be Legendary.

September 15, 2021

Wade Boeshans
Summit Carbon Solutions
1805 Collaboration Place, STE 1200
Ames, IA 50010

Dear Mr. Boeshans:

This is in response to your request for a review of the environmental impacts associated with the Midwest Carbon Express CO₂ Capture, Pipeline, & Sequestration Project.

The proposed project has been reviewed by State Water Commission staff, and the following comments are provided:

The Department of Water Resources asks that you please keep us updated as the project develops. With more detailed siting and routing information we will be able to provide better comments on specific aspects within the project. As the project was presented in the current document, we provide the comments.


- It appears that project pipelines will cross the Missouri, James, Sheyenne, and Red or Bois De Sioux Rivers in North Dakota. Each of these river crossings would require a Sovereign Land Permit.

- Upon initial review, the proposed project does not appear to require a construction permit from the Department of Water Resources. However, if the project results in the storage of water, a construction permit may be required. Please contact the DWR Regulatory Division at [REDACTED] if you have any questions.

- Initial review indicates the project does not require a conditional or temporary permit for water appropriation. However, if surface water or groundwater will be diverted for construction of the project, a water permit will be required per North Dakota Century Code § 61-04-02. Please consult with the Department of Water Resources Water Appropriation Division if you have any questions at [REDACTED] or [REDACTED].

Thank you for the opportunity to provide review comments. Should you have further questions, please contact me at [REDACTED] or [REDACTED].

Sincerely,



Steven Best
Planner III

SB:dm/1570



AUTHORIZATION TO CONSTRUCT A PROJECT WITHIN SOVEREIGN LANDS OF NORTH DAKOTA
 OFFICE OF THE STATE ENGINEER
 REGULATORY DIVISION
 SFN 61408 (10/2019)

No. S

(OSE USE ONLY)

Project Number **1625**

OFFICE OF THE STATE ENGINEER
 USE ONLY

This application must be submitted to the North Dakota Office of the State Engineer by mail to 900 E Boulevard Ave, Dept. 770, Bismarck, ND 58505-0850, by fax to (701) 328-3696, or by email to sovereignlands@nd.gov. To be complete, this application must include the additional information listed in the instructions on page 3.

If you need any assistance, please contact the Regulatory Division at (701) 328-2752.

**** Additional Sheets May Be Attached If Necessary. ****

Project Will Be Located In Which Water Resource District?

LOCATION DESCRIPTION TO THE NEAREST 40-ACRE TRACT

1/4	1/4	Section	Township	Range
Is This Application For Modification Of An Existing Project? <input type="checkbox"/> Yes <input type="checkbox"/> No		If So, What Year Was Project Constructed?		
By Whom?				
Proposed Project Involves				
<input type="checkbox"/> Bank Stabilization	<input type="checkbox"/> Pipeline Crossing	<input type="checkbox"/> Temporary Water Intake		
<input type="checkbox"/> Boat Ramp	<input type="checkbox"/> Recreation	<input type="checkbox"/> Perennial Water Intake		
<input type="checkbox"/> Bridge Construction	<input type="checkbox"/> Utility Line Crossing	<input type="checkbox"/> Permanent Water Intake Structure		
<input type="checkbox"/> Fish And Wildlife	<input type="checkbox"/> Vegetation Control	<input type="checkbox"/> Dredge, Volume _____		
<input type="checkbox"/> Geotechnical Work	<input type="checkbox"/> Water Outfall	<input type="checkbox"/> Fill, Volume _____		
<input type="checkbox"/> Levee/Dike Or Dam	<input type="checkbox"/> Waste Lagoon			
<input type="checkbox"/> Other, Explain _____				
If Proposed Project Involves A Standard Dock (see Supplemental Measurements Sheet For Standard Docks)				
Standard Dock Dimension Shape				
A	B	C	D	
About Water Body				
Water Body On Which Project Will Be Located				
Purpose				
Project Description				
Contractor (if known)				
Anticipated Construction Start Date			Completion Date	

APPLICANT'S CERTIFICATION

I, the undersigned, am applying for authorization as required under North Dakota Century Code (N.D.C.C.) ch. 61-33 from the Office of the State Engineer. I understand that I must comply with N.D.C.C. ch. 61-33 and North Dakota Administrative Code ch. 89-10-01, and that I must adhere to any conditions required by the State Engineer. I acknowledge that my project is accurately described and depicted in this application as I intend to construct it. My signature below acknowledges that I have read and agree to these statements.

PROJECT OWNER

Name of Project Owner			
Address	City	State	ZIP Code
Home Telephone Number	Cell Number		
Email Address			
Signature of Project Owner or Applicant			Date

IF DIFFERENT FROM PROJECT OWNER

Name of Applicant			
Address	City	State	ZIP Code
Home Telephone Number	Cell Number		
Email Address			
Signature of Project Owner or Applicant			Date

INSTRUCTIONS FOR COMPLETING AN AUTHORIZATION TO CONSTRUCT A PROJECT WITHIN SOVEREIGN LANDS OF NORTH DAKOTA UNDER NORTH DAKOTA ADMINISTRATIVE CODE § 89-10-01-04

A person seeking to construct a project within Sovereign Lands of North Dakota requires authorization from the State Engineer before construction or operation of the project. "Sovereign Lands" means those areas, including the beds and islands, lying within the ordinary high water mark of navigable lake and streams.¹ (N.D.C.C. § 61-33-01). The "ordinary high water mark" is that line on navigable waters below which the action of the water prevents the growth of vegetation, or to restrict its growth to predominantly wetland species.

To be complete, the application must include all information listed below:

1. A completed "Application to Construct a Project within Sovereign Lands of North Dakota" form.
2. A detailed map or drawing of the projects location on an aerial photo.
 - i. Size of map must be 8 ½ by 11 inches,
 - ii. Map shall have a north arrow and approximate scale, and
 - iii. Map shall indicate the proposed work on the drawing.
3. If applying for the installation of a standard dock in which the total length of the dock over the surface of the water does exceed twenty-five feet on a river and fifty feet on a lake, please include measurements requested on "Supplemental Measurements Sheet for Standard Docks".
4. If applying for the installation of a standard dock in which the total length of the dock over the surface of the water does not exceed twenty-five feet AND is located on the Missouri River between the Oliver and Morton County line and Lake Oahe wildlife management area, the project only requires registration with the State Engineer. Please complete the "Registration for Placement of a Dock Under 25 Feet-Long on Specified Waters" form (SFN 61441).
5. If applying for the installation or modification (including change in transported liquid) of a pipeline which transports crude oil, natural gas liquids, or any other hazardous liquid, as determined by the State Engineer, the Applicant must first conduct a scour analysis specific to the proposed crossing for project design purposes.²
6. If applying for the installation of riprap or other bank stabilizations, please include a cross sectional drawing of the proposed work which includes the existing and proposed grade and the present location of the water surface.

Further Sovereign Land Permit Guidance:

1. A permit would be required if any portion of the project would occur within, under, or over a navigable water of North Dakota.
2. A permit would be required if any portion of the project would occur below the ordinary high water mark.
3. The permit applicant is responsible for obtaining any other local, state, or federal permits or permissions that may be necessary prior to construction of a project on Sovereign Land.
4. There is no fee administered for a Sovereign Land Permit.
5. Please allow at least 90 days for Sovereign Land Permit processing.
6. Please notify the Office of the State Engineer of project completion at sovereignlands@nd.gov.
7. Unless specified, there is no expiration date on an obtained Sovereign Land Permit.

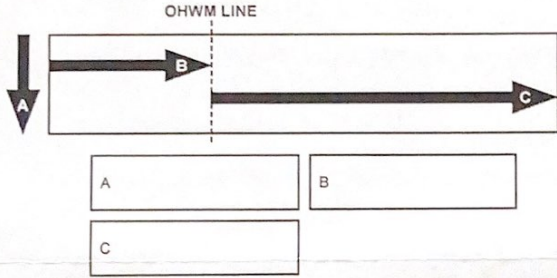
¹ North Dakota's Navigable Waters as of 2018: Missouri River, James River, Sheyenne River, Pembina River, Mouse River, Red River of the North, Bois De Sioux, Knife River, Heart River, Cannonball River, Yellowstone River, Devils Lake, Lake Metigoshe, Painted Woods Lake, Sweetwater Lake, Upper Des Lacs Lake, and Long Lake(Bottineau County). List subject to change.

² The minimum depth-of-burial for pipelines transporting crude oil, natural gas liquids, or any other hazardous liquid as determined by the state engineer must be total calculated scour plus four feet from the bed of the river to top-of-pipe for pipelines crossing the state's navigable rivers. (N.D.C.C. ch.61-63).

SUPPLEMENTAL MEASUREMENT SHEET FOR STANDARD DOCKS

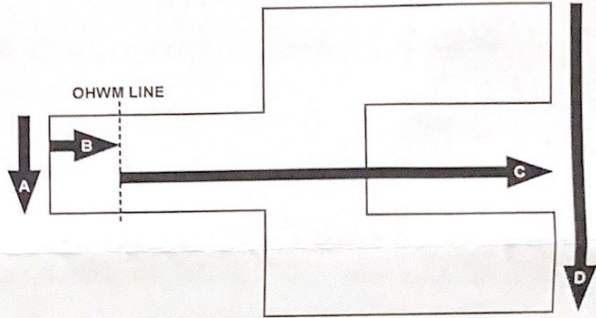
OHWM = Ordinary High Water Mark

1. STRAIGHT DOCK DIMENSIONS (feet)



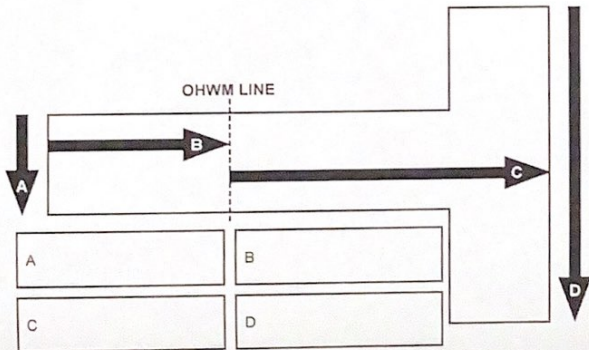
A	B
C	

4. Y-SHAPE DOCK DIMENSIONS (feet)



A	B
C	D

2. T-SHAPE DOCK DIMENSIONS (feet)



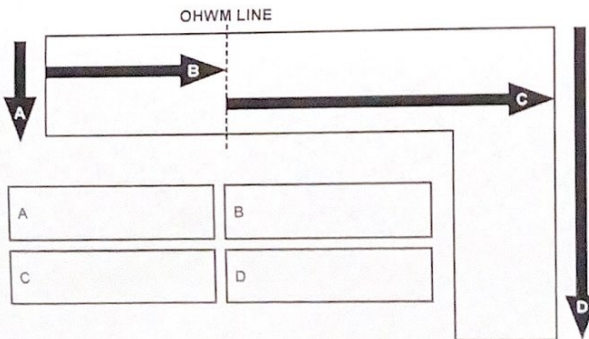
A	B
C	D

5. OTHER DOCK SIZE AND DIMENSIONS (feet)

DRAW IMAGE HERE ALONG WITH OHWM LINE

A	B
C	D

3. L-SHAPE DOCK DIMENSIONS (feet)



A	B
C	D

STANDARD DOCK CONDITIONS

The following standard conditions will be included on all docks requiring a sovereign land permit.

1. Total length of the dock over the surface of the water **does** exceed twenty-five feet on a river and fifty feet on a lake. Please include measurements requested on "Supplemental Measurement Sheet for Standard Docks";
2. The dock is owned and operated by the riparian owner or the riparian owner's lessee for the riparian owners or lessee's personal use;
3. The dock is used only for embarkation, debarkation, moorage of boats, water intakes, or recreation;
4. There is no unreasonable interference with navigation or access to an adjacent riparian land owner's property;
5. The dock is connected to a point above the ordinary high watermark by a boardwalk that does not exceed twenty-five (7.6 meters) in length, and is removed from below the ordinary high watermark each fall, and
6. Upon abandonment, the grantee restores the bank as closely as practicable to its original condition.

From: Henderson, Wayne <[REDACTED]>
Sent: Thursday, September 16, 2021 2:47 PM
To: Megan Cochran; Amy Butler
Cc: Luke, Todd; Frerichs, Todd
Subject: Summit Carbon Solutions Midwest Carbon Express Follow-up and Route
Attachments: [Summit Carbon D199X.pdf](#); [Summit Carbon D484X,1.pdf](#); [Summit Carbon D493X,1.pdf](#)

Megan and Amy,

Thank you for providing pipeline route. I have reviewed the route through the Kulm Wetland Management District and found the western line in McIntosh county does not impact any service interest. The eastern line in Dickey county crosses three wetland easements and potentially impacts 8 wetlands. I have attached maps of these area. I believe with just a little rerouting the impact could be avoided.

Please let me know if there is anything I can help with.

Thanks

Wayne Henderson
District Manager
US Fish and Wildlife Service
Kulm Wetland Management District
[REDACTED]

From: John Beaver <[REDACTED]>
Sent: Tuesday, March 8, 2022 10:59 AM
To: Bessken, Charlene; Becker, Drew N; Rabbe, Matt; Riddle, Heidi L
Cc: Megan Cochran; Josh Melnar; Pete Christensen
Subject: T&E species study plans
Attachments: [Midwest Carbon Express_Dakota Skipper Study Plan_20220304.pdf](#); [Midwest Carbon Express_Western Prairie Fringed Orchid Study Plan_20220304.pdf](#)

Hello-

Per our conversation on January 25, 2022, we have drafted study plans that describe survey techniques for T&E species along the Midwest Carbon Express proposed route. Based on our discussion on the 25th, the federally-listed species that require pre-construction survey include:

1. Western prairie fringed orchid,
2. Dakota skipper,
3. American burying beetle.

Survey plans for western prairie fringed orchid and Dakota skipper are attached. Note that the Dakota skipper plan references and incorporates the USFWS Dakota Skipper Site Occupancy Survey Protocol. The American burying beetle survey will be completed by Dr. Wyatt Hoback; that plan will be provided separately.

Survey for Topeka shiner in Nebraska was determined to be unnecessary since Taylor Creek will be crossed by bore or drill. Charlie and SDGFP provided a list of streams in South Dakota where Topeka shiner, and/or northern redbelly dace, have been recorded. We are reviewing those streams more closely to determine crossing methods and the need for survey or other restrictions. Several of the streams do not have a channel or flowing water at the proposed crossing point, instead they are either wetland swales or, in one case, a farmed drainage with no vegetation or hydrology. I will send you a separate email regarding Topeka shiner streams along the route in South Dakota.

Please review these plans and let me know if you have any concerns.

Thank you.

John Beaver
WESTECH Environmental Services, Inc.
P.O. Box 6045 | Helena, MT | 59604
Office [REDACTED] | Cell [REDACTED]
WESTECH-ENV.COM



From: John Beaver
Sent: Wednesday, January 26, 2022 2:48 PM
To: Bessken, Charlene <[REDACTED]>; Becker, Drew N <[REDACTED]>; Rabbe, Matt <[REDACTED]>; Riddle, Heidi L <[REDACTED]>
Cc: Megan Cochran <[REDACTED]>; Josh Melnar <[REDACTED]>
Subject: Meeting notes: January 25, 2022 Midwest Carbon Express

Hello All-

Thanks for your availability and input yesterday. I've drafted meeting notes for your review. I've also attached a map of streams in SD that have supported Topeka shiner. Charlie provided this to me yesterday and it is referenced in the meeting notes.

Let me know if you have any feedback.

Thanks!

John Beaver

WESTECH Environmental Services, Inc.

P.O. Box 6045 | Helena, MT | 59604

Office [REDACTED] | Cell [REDACTED]

WESTECH-ENV.COM





Meeting Minutes

Date of Meeting: 9/14/2021- 8:00 AM (EST) **Next Meeting:** TBD

Location: Virtual Teams Meeting **Meeting No.:** 01NRCS

Written By: Lily Hassan

Project: Summit Carbon Solutions Midwest Carbon Express Project **Project No.:** TAL-21015451-00

Purpose: Project Overview Presentation to NRCS Land Easement Team (DC office)

Attendees:

Chris Hill	Summit Carbon Solutions
Jon Schmidt	EXP
Brandi Naughton	Merjent
Megan Konys	Perennial
Lily Hassan	EXP
Wayne Van Rooyen	NRCS
Bridget Eklund	NRCS

Distribution: All

Note: If you believe these minutes are inaccurate or incomplete, please notify the signatory who will make necessary corrections

Details	Action to be taken by and date
Meeting Agenda -	
1. Introductions	
2. Brief Project Overview	
3. Discussion	
3.1.1 Request for Central POC	
3.1.2 Easement Administration Action process and procedures (including NEPA)	
3.1.3 Current Status of Communication with NRCS	
3.1.4 Concerns/Questions	

Meeting Minutes (cont'd)

Re: NRCS ACEP Meeting
Midwest Carbon Express
Date: September 14, 2020

Details	Action to be taken by and date
7.2 Jon transitioned the conversation into discussion of the communication structure between NRCS and the Project. Wayne stated that the Project should coordinate with state level ACEP representatives. Although the state team can not approve potential impacts from outside projects, they can make recommendations to the ACEP Washington D.C. office. Wayne stated that he will provide the Summit team with a list of state contacts and send a brief message informing these contacts of his communication with the Project team.	
7.3 Wayne then began discussion of the environmental review process for potential impacts to lands under the ACEP. To begin, any impacts must be proven to be unavoidable. Cost and timeliness are not considered acceptable reasons for unavoidable impacts. The NRCS review would consist of three main components:	
7.3.1 NEPA Review – At a minimum, an Environmental Assessment (EA) and a subsequent Finding of No Significant Impact (FONSI) is required. Categorical Exclusions (CATEX) are not applicable to impacts to ACEP lands;	
7.3.2 Uniform Standards of Professional Appraisal Practice (USPAP) – Wayne explained that if the landowner does not want to sell the land, then it is a hard no. NRCS will not be involved with landowner negotiations and will require concurrence from the landowner; and	
7.3.3 Land Survey – Both pre and post construction surveys may be required.	
7.4 Jon asked if it would be possible to produce one NEPA document for potential impacts for all the states crossed by the Project. Wayne replied that each site would require site specific analysis and mitigation. Wayne then asked how the Project would handle/minimize potential issues traversing agriculture land. Wayne added that NRCS’s preference would be to keep any potential impacts within existing right of ways (ROWs).	
7.5 Wayne then informed the team that lands under the Emergency Watershed Protection (EWP) Program have their own regulations and any approved impacts must be mitigated in adjacent in-kind lands. He also noted that lands classified as woodlands under the ACEP don’t have a replacement option for mitigation and should be avoided and that all potential impacts to any ACEP lands will require coordination with the	

Meeting Minutes (cont'd)

Re: NRCS ACEP Meeting
Midwest Carbon Express
Date: September 14, 2020

Details	Action to be taken by and date
<p>U.S. Fish and Wildlife Services (USFWS). Jon mentioned that the Project has already began communication and engagement with USFWS.</p> <p>7.6 Wayne requested that the Project provide state representatives for the ACEP with a kmz of a near final route to ensure that the program avoids future engagement with any property that may be within the Project's footprint.</p> <p>7.7 Wayne acknowledged that it may be challenging to set up a meeting with ACEP state contacts since it's nearing the end of the fiscal year and they're busy wrapping up easements with this year's funding. He also noted that the current administration is focused on tribal issues, particularly those regarding lands in the wetlands reserve program adjacent to rivers. Jon responded that the Project will likely go through the Nationwide Permitting (NWP) route instead of a US Army Corp of Engineers individual permit to gain authorization for potential impacts to Waters of the U.S. Although NWP typically don't require Section 106 coordination, the Project has already initiated engagement with Tribal representatives.</p> <p>7.8 After thanking all attendees for their time and input the meeting was concluded.</p> <p>8. Action Items</p>	

Action Item	Responsible Party	Due Date
Provide link to ACEP GIS data	Wayne Van Rooyen	Completed on 9/14/2021
Provide State Contact List	Wayne Van Rooyen	Completed on 9/14/2021
Provide KMZ of near Final Route	Project Team	9/24/21



Meeting Agenda

Project Name:	Summit Carbon Solutions Midwest Carbon Express	Date:	11/9/2021
Location:	Virtual Teams Meeting	Project No.:	TAL-21015451-00
Purpose:	FSA Agency Meeting	Prepared By:	L. Hassan
Participants:	Michelle Page Timothy Divis Amanda Hartman Robin Holcombe Adriana Alcorn Alan Lange Wanda Braxton Katelyn Brummer Angela Hanson Keith Hobbie Kale Horton Beau Peterson Beverly Peterson Michael Sorgen Chris Hill John Satterfield Jon Schmidt Jason Zoller Mike Aubele Megan Cochoran Lily Hassan	FSA, St. Paul, MN FSA, Lincoln, NE FSA, Urbandale, IA FSA, Urbandale, IA FSA, Vinton, IA NRCS, Des Moines, IA FSA, Fargo, ND FSA, Urbansdale, IA FSA, St. Paul, MN FSA, Pipestone, MN FPAC-FBC, Kansas City, MO FPAC-FBC, Kansas City, MO FSA, Washington D.C. FSA, St. Paul, MN Summit Carbon Solutions Summit Carbon Solutions EXP EXP EXP Perennial EXP	

Note: If you believe these minutes are inaccurate or incomplete, please notify the signatory who will make necessary corrections

Details	Action to be taken by and date
Meeting Agenda -	
1. Introductions	
1.1 This meeting was held to provide representatives from the U.S. Department of Agriculture (USDA) Farm Service Agency (FSA) Conservation Reserve Program (CRP) with an overview of the Summit	

Meeting Minutes (cont'd)

FSA CRP Program
Project Number: TAL-21015451-00
Date: November 9, 2021

Carbon Solutions Midwest Carbon Express Project (Project). The objective of this meeting was to facilitate discussion of regulatory requirements or restrictions regarding potential Project impacts to lands under the CRP program.

2. Brief Project Overview

- 2.1 The meeting began with introductions of the meeting attendees and their respective roles followed by a quick Project summary.

3. Discussion

- 3.1 Lily Hassan (EXP) opened the discussion by asking if the representatives from FSA have a preferred chain of communication, i.e. – should the Project communicate with FSA representatives on a national or state level when seeking out information regarding the CRP program. An FSA representative asked for clarification on what information the Project is looking to obtain from FSA. Lily responded that the Project would like locational/geographic information of where the proposed MCE route crosses or impacts property currently participating in the CRP program. FSA stated that this information would likely be available on a state level.
- 3.2 Tim Divis, the acting FSA state executive director for the state of Nebraska, asked if the Project was looking for GIS information or for specific contract information. Chris (Summit) replied that the Project is looking for high level information at this point and could dive into more detailed information requests if needed on a case-by-case basis.
- 3.3 An FSA representative then asked if the Project has already spoken with landowners regarding CRP program participation. Chris replied that the Project has reached out to landowners for survey purposes and also provided questionnaires to cover easement concerns such as the CRP program but would still like FSA data to cover any potential gaps.
- 3.4 Beverly Preston, the CRP National Program Manager, asked if we were looking for easement or contract data – clarifying that FSA does not have a lot of easements but does manage a lot of land under contract for the CRP program. Kale Horton, NRCS/FSA Regional coordinator, further explained the difference between CRP contracts and easements, stating that NRCS has an easement division that handles the easements in conservation easement program, but FSA manages over 20 million acres that are under the CRP program. Jason Zoller (EXP) stated that we are interested in CRP contract information and not easement documents.

Meeting Minutes (cont'd)

FSA CRP Program
Project Number: TAL-21015451-00
Date: November 9, 2021

- 3.5 Mike Aubele (EXP) asked if building a pipeline through an easement an issue if the land is under FSA CRP contract. Beverly replied that if the ground is disturbed then yes there is an issue.
- 3.6 An FSA agent asked what specific information we were looking for – Jason replied that we’re looking for locational information. He also asked if it is possible to obtain the locations of the contracted lands or would we need landowner permission before FSA could release this data.
- 3.7 An FSA agent replied that release of this information would require a FOIA request describing specific requested information. This request would then make it’s way down to the appropriate state agencies. Mike asked if it would be more sensible to send the route to FSA to review since FOIA requests can take extended amounts of time to process.
- 3.8 Beverly stated that we could provide the shapefile/kmz but FSA would still require a FOIA request to release the information. Tim remarked that KXL underwent a similar process that was specific to each landowner. Both he and Jon Schmidt (EXP) agreed that this endeavor took a long time to accomplish.
- 3.9 Beverly asked how the KXL managed the endeavor, whether it was handled on national, state, or county level. Tim stated that the information was primarily routed through the state offices although the data resided in county offices.
- 3.10 A process was then identified on how the Project would move forward initially –
- 3.10.1 The Project will provide centerline KMZ’s and Shapefiles to the FSA State department chiefs for an overview to identify the number of farms that are impacted or crossed. Shapefiles and KMZ’s submitted to state chiefs 11/11/21
 - 3.10.2 The Project will submit a FOIA request to Beverly J. Preston - CRP Program Manager, Amber Ross - FPAC National Privacy Officer, and Patrick McLoughlin - FPAC National FOIA Officer. FOIA to be submitted 11/15/21
- 3.11 Chris stated that if additional information is required, the Project would coordinate with landowner to acquire the needed information.
- 3.12 Lily then asked if there were any activities that would trigger NEPA for CRP participating lands. Kale stated that parcels with contracts require an environmental evaluation and a categorical exclusion for all lands in the beginning of the CRP process. He asked if there were any federal actions in place for the Project. Jon stated that there was no federal handle or overarching NEPA document that will be

Meeting Minutes (cont'd)

FSA CRP Program
Project Number: TAL-21015451-00
Date: November 9, 2021

prepared and the Project will place an easement on the property for the pipeline. Kale stated that contracts are not easements, and the proposed actions don't typically trigger NEPA on contracted lands. Jon added that under KXL, the project worked with the landowner to cover any monetary loss from the temporary land change caused by the construction and placement of the pipeline.

- 3.13 Kale provided a quick clarification on NEPA triggering -stating that if there were any activities on property that have FSA mortgages or liens, then NEPA could be potentially triggered. Mike Sorgan added that FSA has loans – both direct and actual mortgages. Actions to these lands would trigger NEPA compliance.

FOIA request to include FSA mortgages and liens.