



MEMO

To: Christina Martens, Flickertail Solar Project, LLC

From: Kaley Singer, Adam Holven, and Abbie Kavouras, Tetra Tech, Inc.

CC:

Date: March 4, 2025

Subject: Preliminary Results of Class III Inventory of Architectural Resources with the 0.5-mile Review Area Flickertail Solar Project, Richland County, North Dakota (SHSND Ref. 24-9003)

Flickertail Solar Project, LLC (Flickertail) proposes to develop the Flickertail Solar Project (the Project) on leased lands within predominantly agricultural cropland northwest of Galchutt in Richland County. The Project will include photovoltaic (PV) panels that are expected to encompass approximately 1,748 acres (the Proposed PV Panels) (Appendix A: Figure 1). Tetra Tech, Inc. (Tetra Tech) has contracted with Flickertail to complete cultural resources investigations for the Project in advance of Flickertail obtaining a Site Permit from the North Dakota Public Service Commission (PSC) (Case PU-24-351), which is subject to the State Historical Society of North Dakota (SHSND) review under North Dakota Century Code (NDCC) 49-22-09.

Consultation with the SHSND in October 2024 discussed the need for assessment of above-ground resources (Appendix B). Based on the topography in the vicinity of the Proposed PV Panels, the massing of the solar panels, and the overall height of the panel at maximum tilt, the SHSND recommended that the assessment of above-ground resources should be conducted within a 0.5-mile radius surrounding the outer edge of the Proposed PV Panels (Appendix A, Figure 2). The SHSND requested on-site photographs of properties within the 0.5-mile radius, as well as a map depicting property and structure locations; if on-site access was denied, then photographs should be taken from the public road rights-of way (ROWS).

This memo presents preliminary results of the Class III Inventory of Architectural Resources within the 0.5-mile radius of the Proposed PV Panels (i.e., the Study Area). The full results of the Class III Inventory of Architectural Resources will be submitted to the SHSND in Spring 2025.

METHODS

Tetra Tech plotted property locations within the Study Area through a desktop review of current aerial photography available on ArcGIS Pro. During this review, property locations (including farmsteads, residences, outbuildings, etc.) were identified and given a location number (i.e., OP1, OP10, etc.) and structures within each location were assigned a structure number (i.e., 1, 2, 3, etc.). Property locations identified through this desktop review were provided to Flickertail, which attempted to coordinate with property landowners to secure on-site access to photograph structures. On October 22, 2024, Flickertail notified Tetra Tech that it was unable to secure on-site access to photograph properties outside of parcels under lease by the Project; therefore, per the SHSND's instructions, photographs would be taken from the public road ROWs.

Photographic documentation of property locations and individual structures was completed on November 10, 2024, outside the growing season and during a leaf-off period for trees. Properties and structures were photographed from public road ROWs per instructions from the SHSND.

Following field documentation, Tetra Tech reviewed aerial photographs provided by the Army Map Service (AMS) (AMS 1952), North Dakota Historical Map and Aerial Photography Dissemination Service (NDHMAPDS) (NDHMAPDS 2025), U.S. Geological Survey (USGS) (USGS 1969, 1978), and Google Earth Pro (2025) to determine approximate date ranges in which identified structures were constructed. Historical aerial photographs range between 1952 and 2023. The Richland County online parcel viewer reviewed does not include construction date information for identified structures (Richland County, North Dakota 2025).

Through review of field and desktop data, Tetra Tech conducted a preliminary evaluation to determine if properties or individual structures retained enough integrity in the seven categories (location, design, setting, materials, workmanship, feeling, and association) defined by the National Park Service (NPS) to indicate significance (NPS 1995).

In addition, to be determined eligible for the NRHP, properties must meet at least one of the following National Register Criteria for Evaluation. Properties must be ones:

- A. That are associated with events that have made a significant contribution to the broad patterns of our history; or
- B. That are associated with the lives of persons significant in our past; or
- C. That embody the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or
- D. That have yielded, or may be likely to yield, information important in prehistory or history (NPS 1995).

A review of NRHP eligibility will be completed in the full results of the Class III Inventory of Architectural Resources.

RESULTS

One previously inventoried architectural resource, Site 32RI930, is located on a parcel under lease with the Project (Appendix A, Figure 3). Tetra Tech documented and recorded the site during the pedestrian survey for the Project in October 2023. Discussion of Site 32RI930 is included in the Class III Cultural Resource Inventory for Archaeology and Architectural History, which is expected to be finalized in Spring 2025.

A total of 14 locations with one or more structures were identified within the Study Area during the desktop review (Table 1; Appendix A, Figure 3; Appendix B). In total, 123 structures were plotted within the Study Area (Appendix A, Figure 4).

A majority (100) of the 123 desktop structures were visible from public road ROWs during the November 2024 site visit. A total of 21 structures were not visible from the public road ROWs due to obstructed views from other

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structures or vegetation (Table 1; Appendix A, Figures 3 and 4; Appendix C). Two structures (OP13-7 and OP13-12) observed during the desktop review were not observed during the site visit even though the location was visible from the public road ROW and are therefore considered non-extant.

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Table 1. Summary of Properties and Structures Reviewed in the Study Area

Property Location	Structure ID	Visible from ROW	Approximate Date Range of Construction	Photograph Reference (Appendix C)	Preliminary Eligibility Recommendation
OP1	OP1	Yes	1961-2020	Overview: Photographs 1 & 2	Not eligible
	1	Yes	2015-2020	Photograph 3	Not eligible
	2	Yes	1961-1978	Photograph 4	Not eligible
	3	Yes	1978-1990	Photograph 5	Not eligible
	4	Yes	1978-1990	Photograph 6	Not eligible
OP10	OP10	Yes	Prior to 1952-1978	Overview: Photographs 7 & 8	Not eligible
	1	Yes	Prior to 1952	Photograph 9	Not eligible
	2	Yes	1952-1961	Photograph 10	Not eligible
	3	Yes	1961-1978	Photograph 11	Not eligible
OP11	OP11	Yes	Prior to 1952-2003	Overview: Photograph 12	Not eligible
	1	Yes	Prior to 1952	Photographs 13 & 14	Not eligible
	2	No	1978-1990	Not visible from ROW	Not eligible
	3	Yes	1961-1969	Photographs 17, 18, & 19	Not eligible
	4	Yes	1969-1990	Photographs 17, 19, & 20	Not eligible
	5	Yes	1969-1990	Photographs 19 & 20	Not eligible
	6	Yes	1990-1997	Photograph 20	Not eligible
	7	Yes	1969-1990	Photograph 20	Not eligible
	8	No	1969-1990	Not visible from ROW	Not eligible
	9	No	1969-1990	Not visible from ROW	Not eligible
	10	No	1969-1990	Not visible from ROW	Not eligible

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Property Location	Structure ID	Visible from ROW	Approximate Date Range of Construction	Photograph Reference (Appendix C)	Preliminary Eligibility Recommendation
	11	No	1969-1978	Not visible from ROW	Not eligible
	12	Yes	1969-1978	Photograph 18	Not eligible
	13	Yes	1969-1978	Photographs 18 & 19	Not eligible
	14	Yes	1969-1978	Photograph 17	Not eligible
	15	Yes	1990-1997	Photograph 13 & 17	Not eligible
	16	Yes	1961-1969	Photograph 15	Not eligible
	17	Yes	1990-1997	Photograph 15	Not eligible
	18	Yes	1978-1990	Photographs 13 & 15	Not eligible
	19/20	Yes	Prior to 1952 ¹	Photograph 13	Not eligible
	21	Yes	1969-1990	Photographs 13 & 15	Not eligible
	22	Yes	1997-2003	Photograph 16	Not eligible
	23	Yes	1997-2003	Photographs 13 & 16	Not eligible
	24	Yes	1961-1969	Photograph 19	Not eligible
OP13	OP13	Yes	Prior to 1952-2009	Overview: Photographs 21 & 22	Not eligible
	1	Yes	Prior to 1952	Photograph 23	Not eligible
	2	No	1990-1997	Not visible from ROW	Not eligible
	3	Yes	1978-1990	Photographs 24 & 25	Not eligible
	4	Yes	1978-1990	Photographs 25 & 27	Not eligible
	5/6	Yes	Prior to 1952	Photographs 25 & 27	Further assessment
	7	Not Extant	2013-2023	Not Applicable	Not eligible

¹ According to the landowner of OP11, Structure 19/20 was constructed in the early 1900s and moved out of the floodplain to the north between 1961 and 1969.

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Property Location	Structure ID	Visible from ROW	Approximate Date Range of Construction	Photograph Reference (Appendix C)	Preliminary Eligibility Recommendation
	8	Yes	1961-1969	Photograph 27	Not eligible
	9	Yes	1961-1969	Photographs 25 & 26	Not eligible
	10	Yes	1990-1997	Photographs 25 & 26	Not eligible
	11	Yes	1969-1990	Photographs 25 & 26	Not eligible
	12	Not Extant	2015-2020	Not Applicable	Not eligible
	13	Yes	1997-2003	Photograph 27	Not eligible
	14	Yes	1990-1997	Photograph 28	Not eligible
	15	Yes	2005-2009	Photograph 29	Not eligible
	16	Yes	2005-2009	Photograph 29	Not eligible
	17	Yes	2005-2009	Photograph 29	Not eligible
	18	Yes	2005-2009	Photograph 29	Not eligible
	19	Yes	2005-2009	Photograph 29	Not eligible
	20	Yes	2005-2009	Photograph 29	Not eligible
	21	Yes	2005-2009	Photograph 29	Not eligible
OP14	OP14	Yes	Prior to 1952-1990	Overview: Photograph 30	Not eligible
	1	Yes	1978-1990	Photographs 31 & 32	Not eligible
	2	Yes	Prior to 1952	Photograph 32	Not eligible
	3	Yes	1969-1978	Photograph 31	Not eligible
	4	Yes	1961-1969	Photograph 31	Not eligible
	5	Yes	Prior to 1952	Photograph 33	Not eligible
	6	Yes	1961-1969	Photographs 32 & 33	Not eligible
	7	Yes	1978-1990	Photograph 34	Not eligible

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Property Location	Structure ID	Visible from ROW	Approximate Date Range of Construction	Photograph Reference (Appendix C)	Preliminary Eligibility Recommendation
	8	Yes	1978-1990	Photograph 34	Not eligible
	9	Yes	1978-1990	Photograph 34	Not eligible
	10	Yes	1978-1990	Photograph 34	Not eligible
	11	Yes	1978-1990	Photograph 34	Not eligible
	12	Yes	1961-1969	Photograph 35	Not eligible
OP21	OP21	Yes	Prior to 1952-2005	Overview: Photograph 36	Not eligible
	1	Yes	1961-1978	Photographs 37 & 39	Not eligible
	2	Yes	Prior to 1952	Photograph 38	Further assessment
	3	No	Prior to 1952	Not visible from ROW	Not eligible
	4	Yes	1961-1978	Photograph 40	Not eligible
	5	Yes	Prior to 1952	Photographs 39, 40, & 41	Further assessment
	6	No	1997-2003	Not visible from ROW	Not eligible
	7	Yes	1978-1990	Photograph 42	Not eligible
	8	Yes	1978-1990	Photograph 42	Not eligible
	9	Yes	1978-1990	Photograph 42	Not eligible
	10	Yes	1961-1978	Photographs 42 & 43	Not eligible
	11	Yes	1961-1978	Photograph 43	Not eligible
	12	Yes	1961-1978	Photographs 42 & 43	Not eligible
	13	Yes	1978-1990	Photograph 40	Not eligible
	14	Yes	Prior to 1952	Photograph 41	Not eligible
	15	Yes	2003-2005	Photographs 44 & 45	Not eligible
	16	Yes	1990-1997	Photograph 46	Not eligible

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Property Location	Structure ID	Visible from ROW	Approximate Date Range of Construction	Photograph Reference (Appendix C)	Preliminary Eligibility Recommendation
	17	No	1997-2005	Not visible from ROW	Not eligible
	18	No	1990-1997	Not visible from ROW	Not eligible
	19	No	1978-1990	Not visible from ROW	Not eligible
OP23	OP23	Yes	Prior to 1952-2009	Overview: Photograph 47	Not eligible
	1	Yes	Prior to 1952	Photograph 48	Not eligible
	2	Yes	2006-2009	Photograph 49	Not eligible
	3	Yes	1952-1961	Photograph 50	Not eligible
	4	Yes	Prior to 1952	Photograph 51	Further assessment
	5	Yes	Prior to 1952	Photograph 52	Not eligible
OP24	OP24	Yes	Prior to 1952-2010	Overview: Photograph 53	Not eligible
	1	Yes	2009-2010	Photograph 54	Not eligible
	2	Yes	1997-2003	Photograph 54	Not eligible
	3	Yes	1978-1990	Photograph 55	Not eligible
	4	Yes	Prior to 1952	Photograph 56	Not eligible
	5	Yes	2005-2009	Photograph 57	Not eligible
OP26	OP26	Yes	Prior to 1952-2023	Overview: Photograph 58	Not eligible
	1	Yes	Prior to 1952	Photograph 59	Not eligible
	2	No	1997-2003	Not visible from ROW	Not eligible
	3	No	1978-1990	Not visible from ROW	Not eligible
	4	No	1990-1997	Not visible from ROW	Not eligible
	5	No	2010-2015	Not visible from ROW	Not eligible
	6	No	2010-2015	Not visible from ROW	Not eligible

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Property Location	Structure ID	Visible from ROW	Approximate Date Range of Construction	Photograph Reference (Appendix C)	Preliminary Eligibility Recommendation
	7	No	1978-1990	Not visible from ROW	Not eligible
	8	No	2003-2005	Not visible from ROW	Not eligible
	9	Yes	2010-2015	Photograph 60	Not eligible
	10	No	2020-2023	Not visible from ROW	Not eligible
	11	No	1978-1990	Not visible from ROW	Not eligible
OP28	OP28	Yes	Prior to 1952-2015	Overview: Photographs 61 & 62	Not eligible
	1	Yes	2010-2015	Photographs 63, 65, & 66	Not eligible
	2	Yes	1952-1961	Photograph 64	Not eligible
	3	Yes	Prior to 1952	Photograph 65	Not eligible
	4	Yes	2010-2015	Photograph 66	Not eligible
	5	Yes	1952-1961	Photograph 67	Not eligible
OP29	OP29	Yes	Prior to 1952-1990	Overview: Photograph 68	Not eligible
	1	Yes	Prior to 1952	Photographs 69 & 71	Further assessment
	2	Yes	1952-1961	Photographs 70 & 71	Further assessment
	3	Yes	1978-1990	Photograph 72	Not eligible
	4	Yes	Prior to 1952	Photograph 72	Not eligible
	5	Yes	1961-1978	Photograph 72	Not eligible
OP30	OP30	Yes	2006-2023	Overview: Photograph 73	Not eligible
	1	Yes	2006-2009	Photograph 74	Not eligible
	2	Yes	2020-2023	Photograph 75	Not eligible
	3	Yes	2009-2010	Photograph 75	Not eligible
OP32	OP32	Yes	1990-2003	Overview: Photograph 76	Not eligible

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Property Location	Structure ID	Visible from ROW	Approximate Date Range of Construction	Photograph Reference (Appendix C)	Preliminary Eligibility Recommendation
OP33	1	Yes	1990-1997	Photograph 77	Not eligible
	2	No	1997-2003	Not visible from ROW	Not eligible
	3	Yes	1990-1997	Photograph 78	Not eligible
	OP33	Yes	1952-1978	Overview: Photograph 79	Not eligible
	1	Yes	1961-1978	Photograph 80	Not eligible
	2	Yes	1961-1978	Photograph 81	Not eligible
	3	Yes	1952-1961	Photograph 82	Not eligible
	4	Yes	1952-1961	Photographs 83 & 84	Not eligible
	5	Yes	1961-1978	Photograph 85	Not eligible
	6	Yes	1961-1978	Photograph 85	Not eligible
	7	Yes	1952-1961	Photographs 83 & 85	Not eligible
	8	Yes	1961-1978	Photograph 83	Not eligible
	9	Yes	1961-1978	Photographs 83 & 84	Not eligible
	10	Yes	1961-1978	Photograph 84	Not eligible
	11	Yes	1961-1978	Photograph 84	Not eligible
	12	Yes	1961-1978	Photograph 84	Not eligible
	13	Yes	1961-1978	Photograph 84	Not eligible

DISCUSSION OF PRELIMINARY RESULTS

Of the 14 properties reviewed, properties OP30 and OP32 were observed to contain only modern structures, which were less than 45 years old (Table 1). Based on the age of the structures at properties OP30 and OP32, it is Tetra Tech's recommendation that these properties would not be eligible for listing in the NRHP.

The remaining 12 properties were examined to determine: 1) if the entire resource was intact and retained integrity, or 2) if individual feature(s) within the resources contained an outstanding or a high level of integrity. Of the 12 properties, six previously undocumented resources (**Structure 5/6** at OP13; **Structures 2 and 5** at OP21; **Structure 4** at OP23; and **Structures 1 and 2** at OP29) appear to merit formal evaluation.

Structure 5/6 at OP13; **Structures 2 and 5** at OP21; **Structure 4** at OP23; and **Structure 2** at OP29 are barns that appear to retain integrity of location, design, materials, workmanship, and association. Based on the introduction of modern elements at properties OP13, OP21, and OP23, integrity of setting and feeling have been diminished.

Structure 1 at OP29 is the former residence; due to the absence of modern elements, property OP29 appears to retain integrity of location, design, setting, materials, workmanship, feeling, and association.

The five barns (**Structure 5/6** at OP13; **Structures 2 and 5** at OP21; **Structure 4** at OP23; and **Structure 2**) appear to retain a high level of integrity; therefore, the significance of these structures will be evaluated for NRHP using the Multiple Property Documentation Form (MPDF) on Farm and Ranch Barns in North Dakota (SHSND 2022). The one former residence (**Structure 1** at OP29) also appears to retain a high level of integrity, and its significance will be evaluated using the Farms in North Dakota, a Historic Context (SHSND 2014).

POTENTIAL IMPACTS

Tetra Tech's preliminary review identified six structures (**Structure 5** at OP13; **Structures 2 and 5** at OP21; **Structure 4** at OP23; and **Structures 1 and 2** at OP29) that will be further assessed for NRHP eligibility in the Class III Architectural Resources Inventory for the Project. These six structures ranged from approximately 1,010 feet (0.2 mile) to 2,645 feet (0.5 mile) the Proposed PV Panels (Table 2). Mature tree lines (i.e., shelter belts) are present between each of the six structures and the Proposed PV Panels, which would provide a visual barrier from elements beyond the farmstead (Appendix C). As such, the introduction of the Proposed PV Panels approximately 0.2 to 0.5 mile would not introduce a new visual element when viewing these structures, because the Proposed PV Panels would not be visible through the shelter belt. It is Tetra Tech's opinion that the shelter belts, combined with the distances between the Proposed PV Panels and structures, would diminish any visual impact from the Proposed PV Panels.

Table 2. Direction and Approximate Distance from Proposed PV Panels

Property Location/ Structure Number	Direction and Approximate Distance of Structure from Proposed PV Panels	Shelter Belts between Structure and Proposed PV Panels
OP13/Structure 5	2,360 feet (0.45 mile) northwest	Shelter belt surrounding the structure to the southwest
OP21/Structures 2 and 5	2,525 feet (0.48 mile) east	Shelter belt surrounding the structure to the west
OP23/Structure 4	1,010 feet (0.19 mile) northeast	Shelter belts surrounding the structure to the southwest and west
	2,435 feet (0.46 mile) north	Shelter belt surrounding the structure to the south
OP29/Structures 1 and 2	2,645 feet (0.50 mile) southwest	Shelter belts surrounding the structure to the northeast and shelter belts surrounding Proposed PV Panels to the east and south
	1,960 feet (0.37 mile) south	Shelter belt surrounding the structure to the north

NEXT STEPS

The Project will complete the Class III Architectural Resources Inventory report and submit the results to the SHSND for review. The Project will work with the SHSND to address any comments or edits to the report and address minimization and mitigation strategies for visual impacts to architectural resources, if warranted.

APPENDICES

Appendix A: Figures

Figure 1: Project Location

Figure 2: Proposed Solar Panel Array

Figure 3: Property Locations within the Study Area

Figure 4: Structure Location

Appendix B: SHSND Consultation

Appendix C: Photo Log

REFERENCES CITED

Army Map Service (AMS)

- 1952 Historical Aerial Photography. Provided by U.S. Geological Survey. Richland County, North Dakota. Available online, <https://earthexplorer.usgs.gov/>, accessed January 3, 2025.

Google Earth Pro

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- 1995 National Register Bulletin 15: How to Apply the National Register Criteria for Evaluation. Available online, <https://www.nps.gov/nr/publications/bulletins/nrb15/>, accessed January 3, 2025.

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- 2025 Rural Richland County. Imagery layer 1961, provided by U.S. Department of Agriculture. Available online <https://aerial.dwr.nd.gov/>, accessed January 3, 2025.

Richland County, North Dakota

- 2025 Richland County Interactive Mapping Service (RCIMS). Available online, <https://www.co.richland.nd.us/parcel-viewer/>, accessed February 12, 2025

State Historical Society of North Dakota

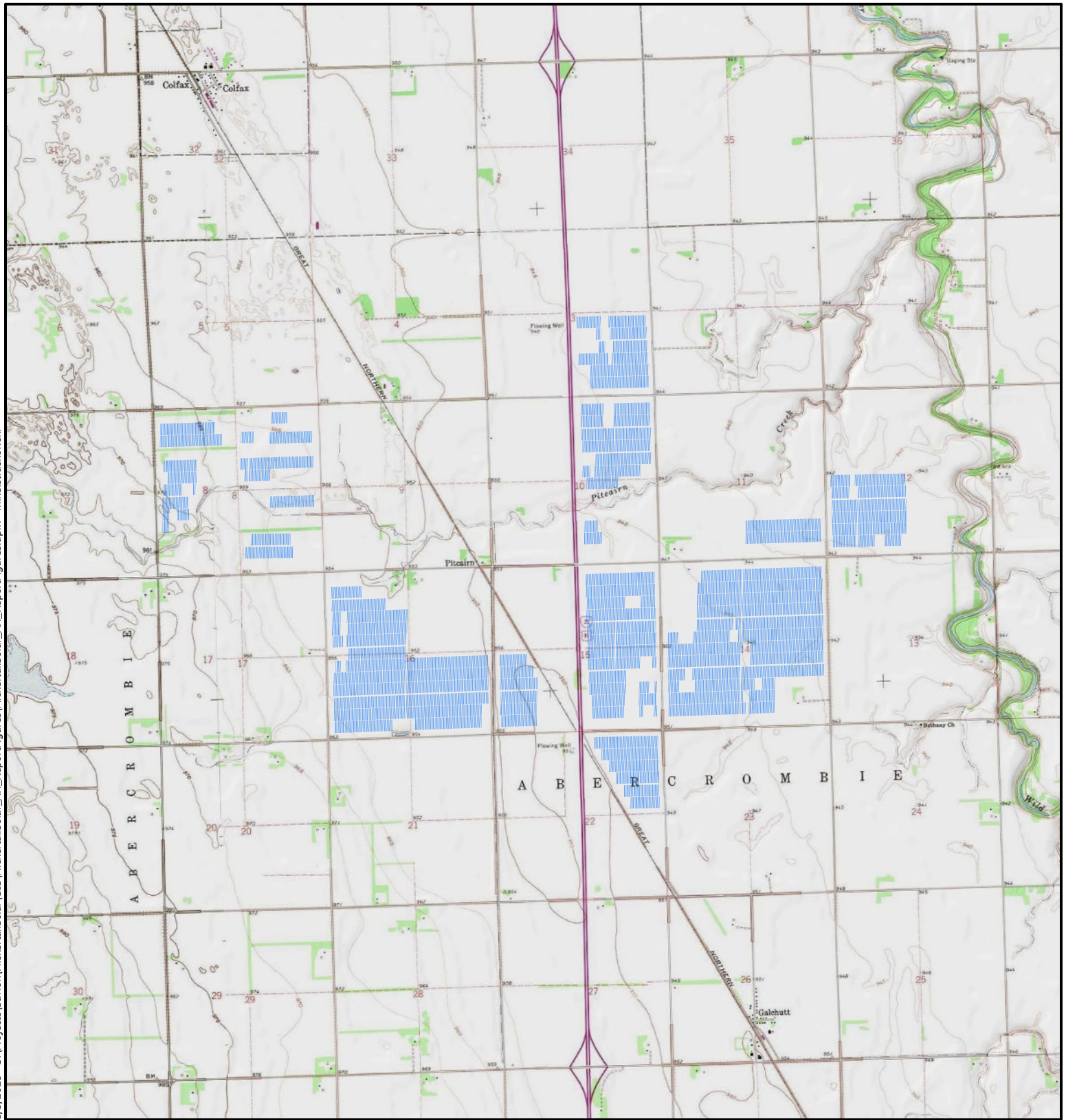
- 2014 Farms in North Dakota, A Historic Context. Available online <https://www.history.nd.gov/hp/PDFinfo/Farms-in-North-Dakota-Part1.pdf>, accessed February 20, 2025.
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- 1969 Historical Aerial Photography. Richland County, North Dakota. Available online <https://earthexplorer.usgs.gov/>, accessed January 3, 2025.
- 1978 Historical Aerial Photography. Richland County, North Dakota. Available online <https://earthexplorer.usgs.gov/>, accessed January 3, 2025.

APPENDIX A: FIGURES

3/3/2025 S:\Projects\Savion\FlickertailSolar\GIS\FlickertailSolar_AH_ReportFigures.aprx mike.straskowski



Source: Map adapted from 1960 USGS Galehutt, ND Topographic Quadrangle. Proposed PV panels provided by Flickertail Solar Project, LLC. Scale 1:50,000.



 Proposed PV Panel

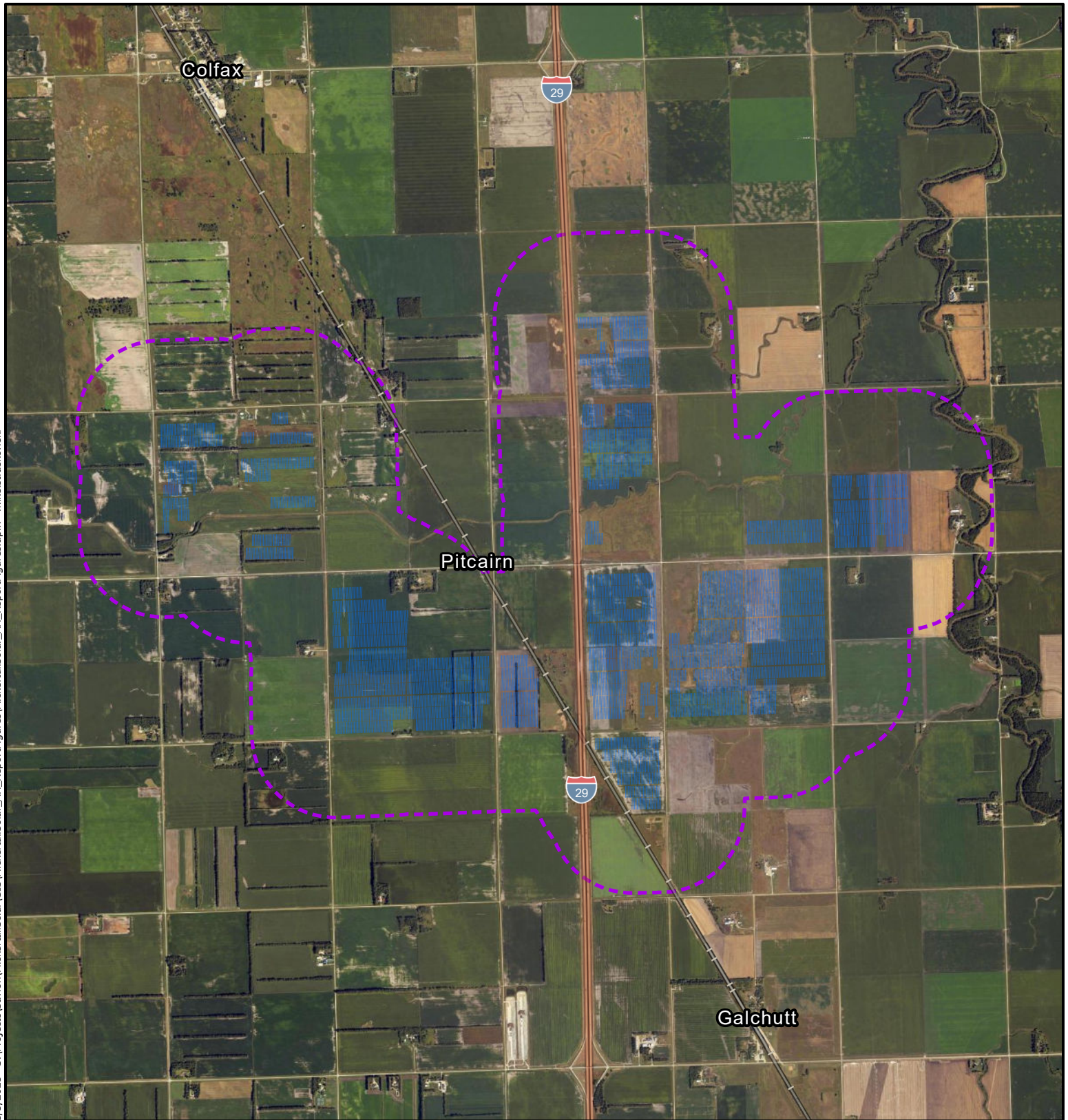


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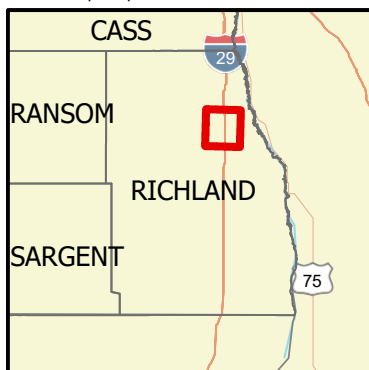
Figure 1
Proposed PV Panels

Flickertail Solar Project
Richland County, North Dakota





Source: Map adapted from ESRI USDA FSA NAIP Aerial (2022). Proposed PV panels by Flickertail Solar Project, LLC. Historic Structures provided by Tetra Tech Inc. Scale 1:50,000.



- Proposed PV Panel
- Study Area

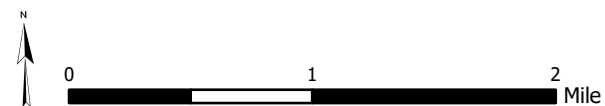
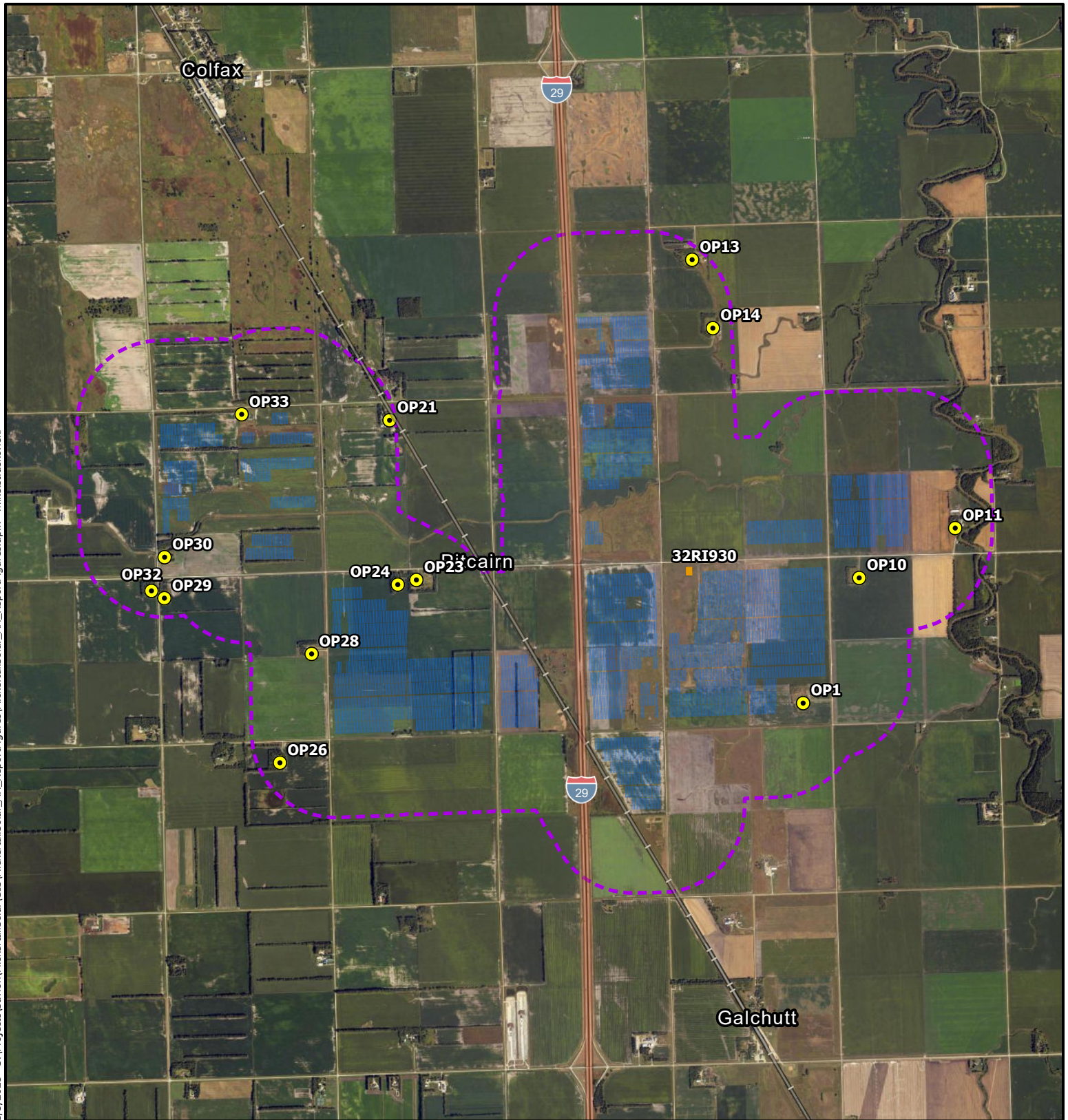
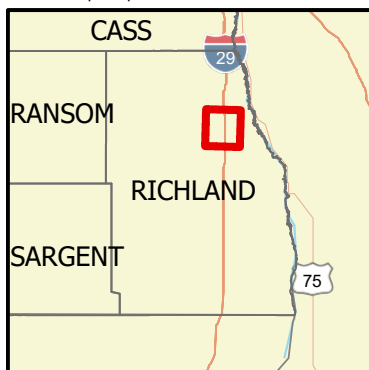


Figure 2
Proposed PV Panels and Study Area

Flickertail Solar Project
Richland County, North Dakota



Source: Map adapted from ESRI USDA FSA NAIP Aerial (2022). Proposed PV panels provided by Flickertail Solar Project, LLC. Structures provided by Tetra Tech Inc. Scale 1:50,000.



- Proposed PV Panel
- Study Area
- Previously Inventoried Architectural Resource
- Property Location



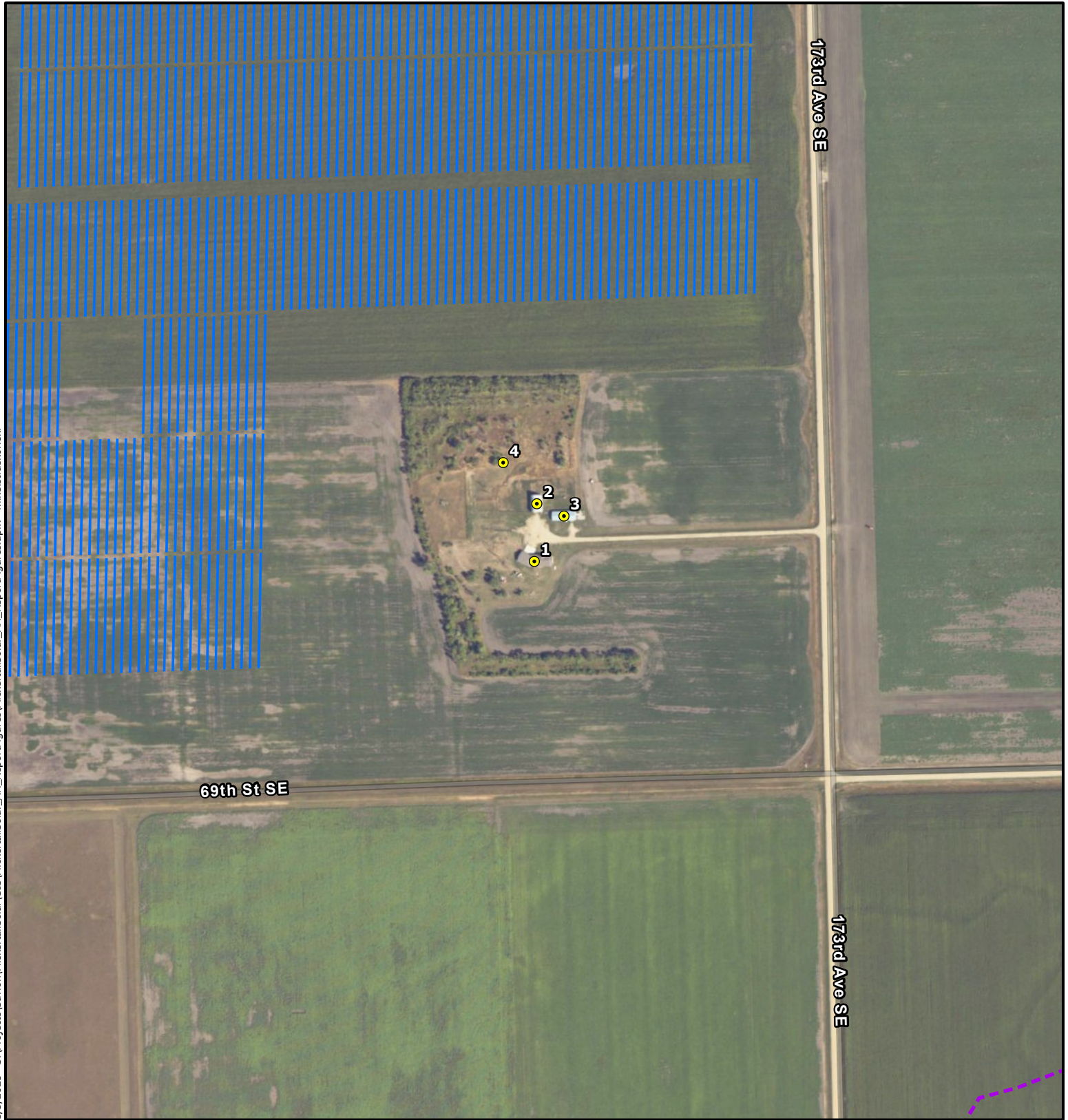
0 1 2 Mile

Figure 3
Property Locations within the Study Area

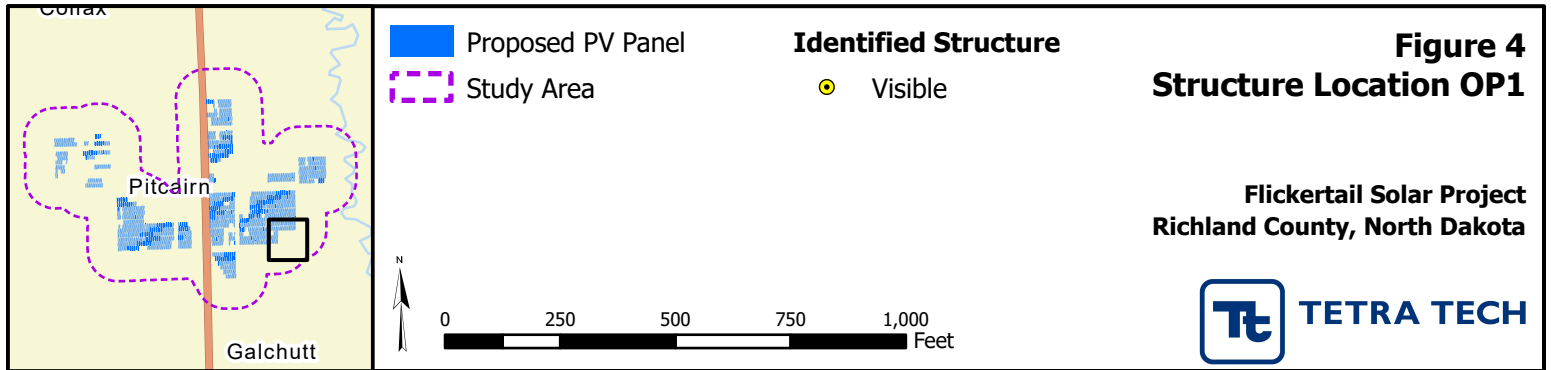
Flickertail Solar Project
Richland County, North Dakota



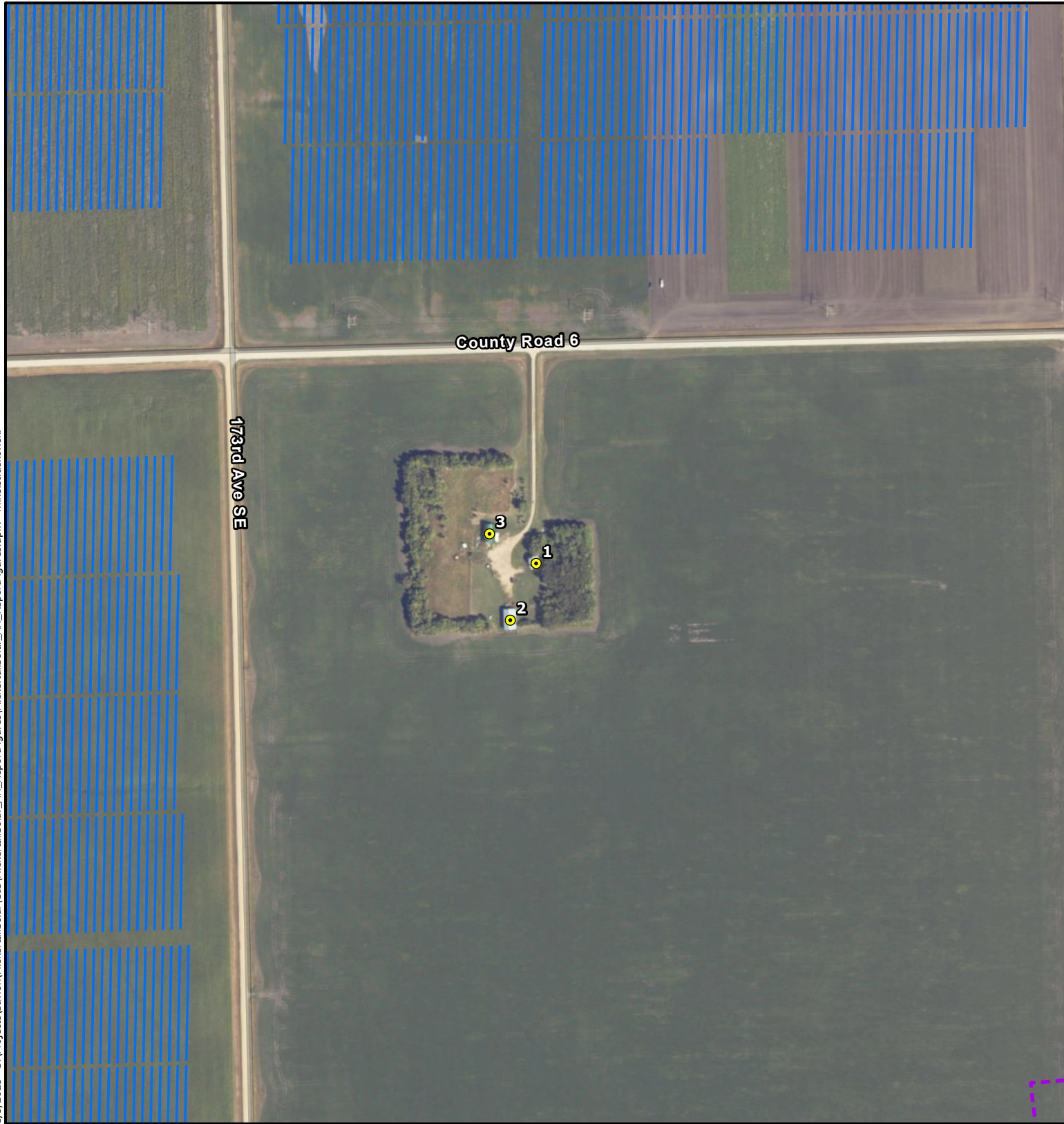
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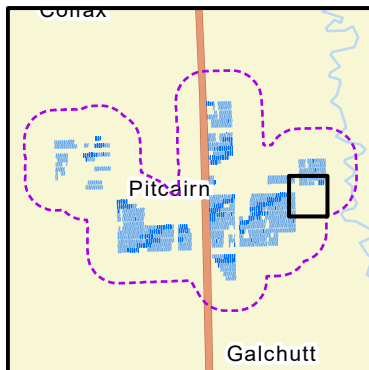
Source: Map adapted from ESRI USDA FSA NAIP Aerial (2023). Proposed PV panels provided by Flickertail Solar Project, LLC. Structures provided by Tetra Tech Inc. Scale 1:5,000.



3/3/2025 S:\Projects\Savion\GIS\FlickertailSolar_AH_ReportFigures.aprx mike.straskowski



Source: Map adapted from ESRI USDA FSA NAIP Aerial (2023). Proposed PV panels provided by Flickertail Solar Project, LLC. Structures provided by Tetra Tech Inc. Scale 1:5,000.



- Proposed PV Panel
- Study Area
- Identified Structure
- Visible

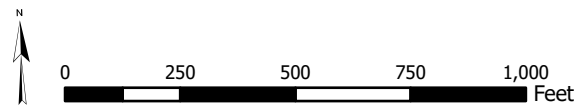


Figure 4
Structure Location OP10

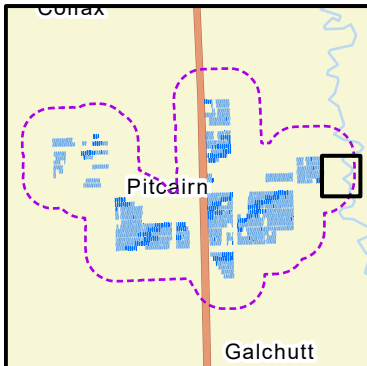
Flickertail Solar Project
Richland County, North Dakota



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Source: Map adapted from ESRI USDA FSA NAIP Aerial (2023). Proposed PV panels provided by Flickertail Solar Project, LLC. Structures provided by Tetra Tech Inc. Scale 1:5,000.



- Proposed PV Panel
- Study Area
- Identified Structure**
- Visible
- Not Visible

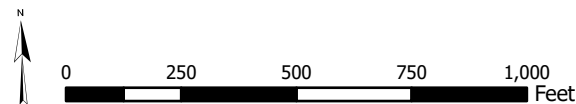


Figure 4
Structure Location OP11

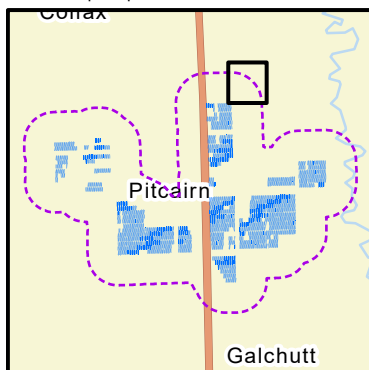
Flickertail Solar Project
Richland County, North Dakota



3/3/2025 S:\Projects\Savion\GIS\FlickertailSolar_AH_ReportFigures.aprx mike.straskowski



Source: Map adapted from ESRI USDA FSA NAIP Aerial (2023). Proposed PV panels provided by Flickertail Solar Project, LLC. Structures provided by Tetra Tech Inc. Scale 1:5,000.



- Proposed PV Panel
- Study Area
- Identified Structure**
- Visible
- Not Visible
- Not Extant



0 250 500 750 1,000 Feet

Figure 4
Structure Location OP13

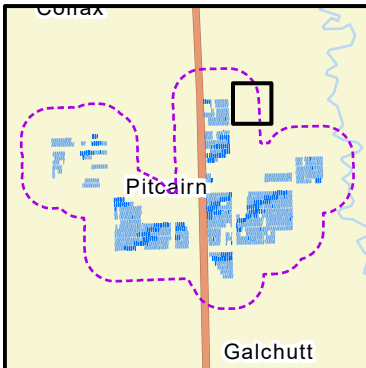
Flickertail Solar Project
Richland County, North Dakota



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Source: Map adapted from ESRI USDA FSA NAIP Aerial (2023). Proposed PV panels provided by Flickertail Solar Project, LLC. Structures provided by Tetra Tech Inc. Scale 1:5,000.



 Study Area

Identified Structure

 Visible

Figure 4
Structure Location OP14

Flickertail Solar Project
Richland County, North Dakota



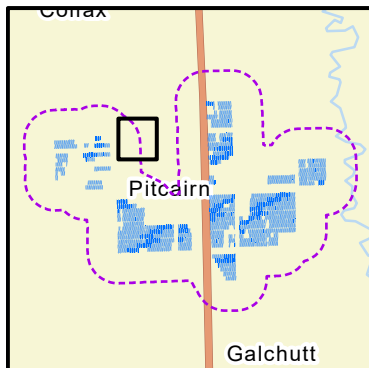
0 250 500 750 1,000 Feet



TETRA TECH



Source: Map adapted from ESRI USDA FSA NAIP Aerial (2023). Proposed PV panels provided by Flickertail Solar Project, LLC. Structures provided by Tetra Tech Inc. Scale 1:5,000.



- Study Area
- Identified Structure
- Visible
- Not Visible



0 250 500 750 1,000 Feet

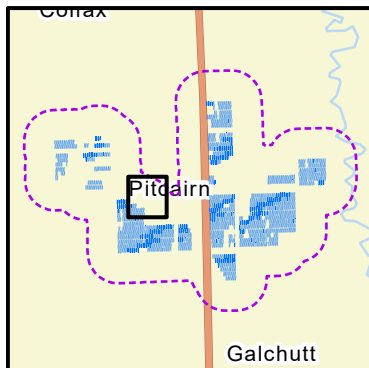
Figure 4
Structure Location OP21

Flickertail Solar Project
Richland County, North Dakota





Source: Map adapted from ESRI USDA FSA NAIP Aerial (2023). Proposed PV panels provided by Flickertail Solar Project, LLC. Structures provided by Tetra Tech Inc. Scale 1:5,000.



- Proposed PV Panel
- Study Area
- Identified Structure**
- Visible

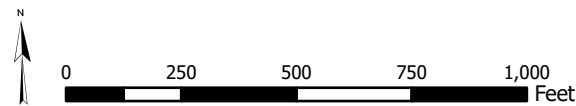


Figure 4
Structure Location OP23

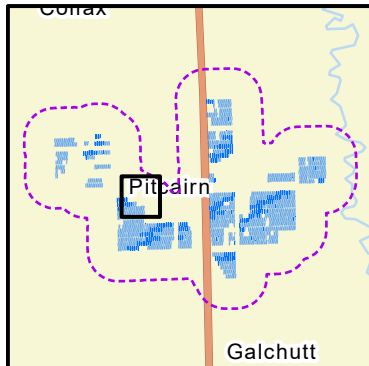
Flickertail Solar Project
Richland County, North Dakota



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Source: Map adapted from ESRI USDA FSA NAIP Aerial (2023). Proposed PV panels provided by Flickertail Solar Project, LLC. Structures provided by Tetra Tech Inc. Scale 1:5,000.



- Proposed PV Panel
- Study Area
- Identified Structure
- Visible

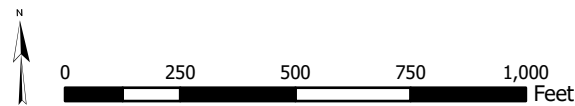


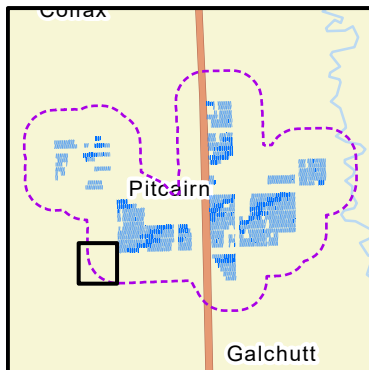
Figure 4
Structure Location OP24

Flickertail Solar Project
Richland County, North Dakota





Source: Map adapted from ESRI USDA FSA NAIP Aerial (2023). Proposed PV panels provided by Flickertail Solar Project, LLC. Structures provided by Tetra Tech Inc. Scale 1:5,000.



- Study Area
- Identified Structure
- Visible
- Not Visible

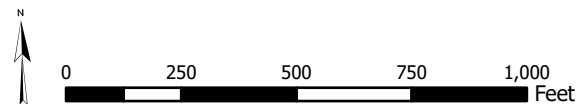


Figure 4
Structure Location OP26

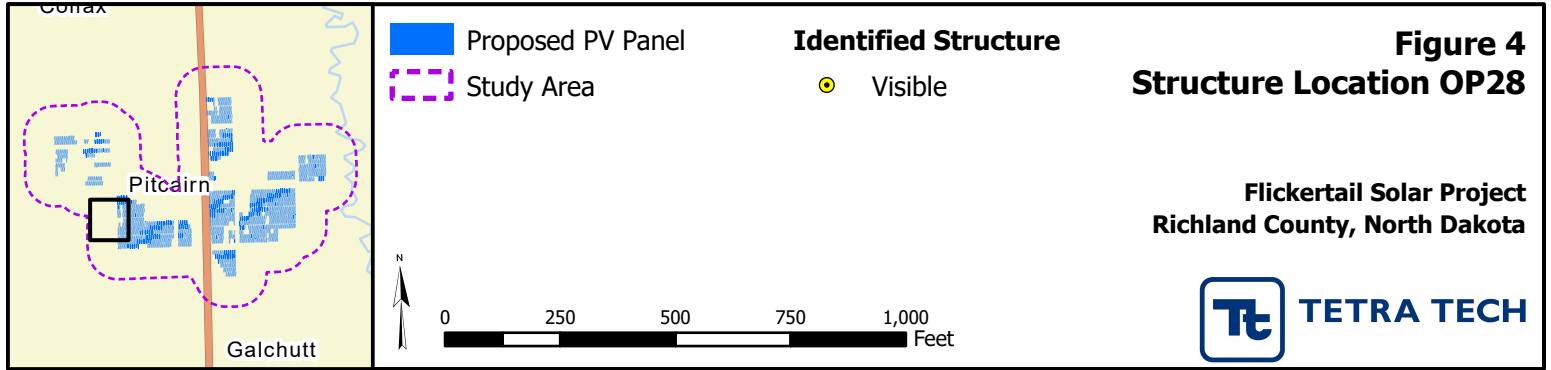
Flickertail Solar Project
Richland County, North Dakota



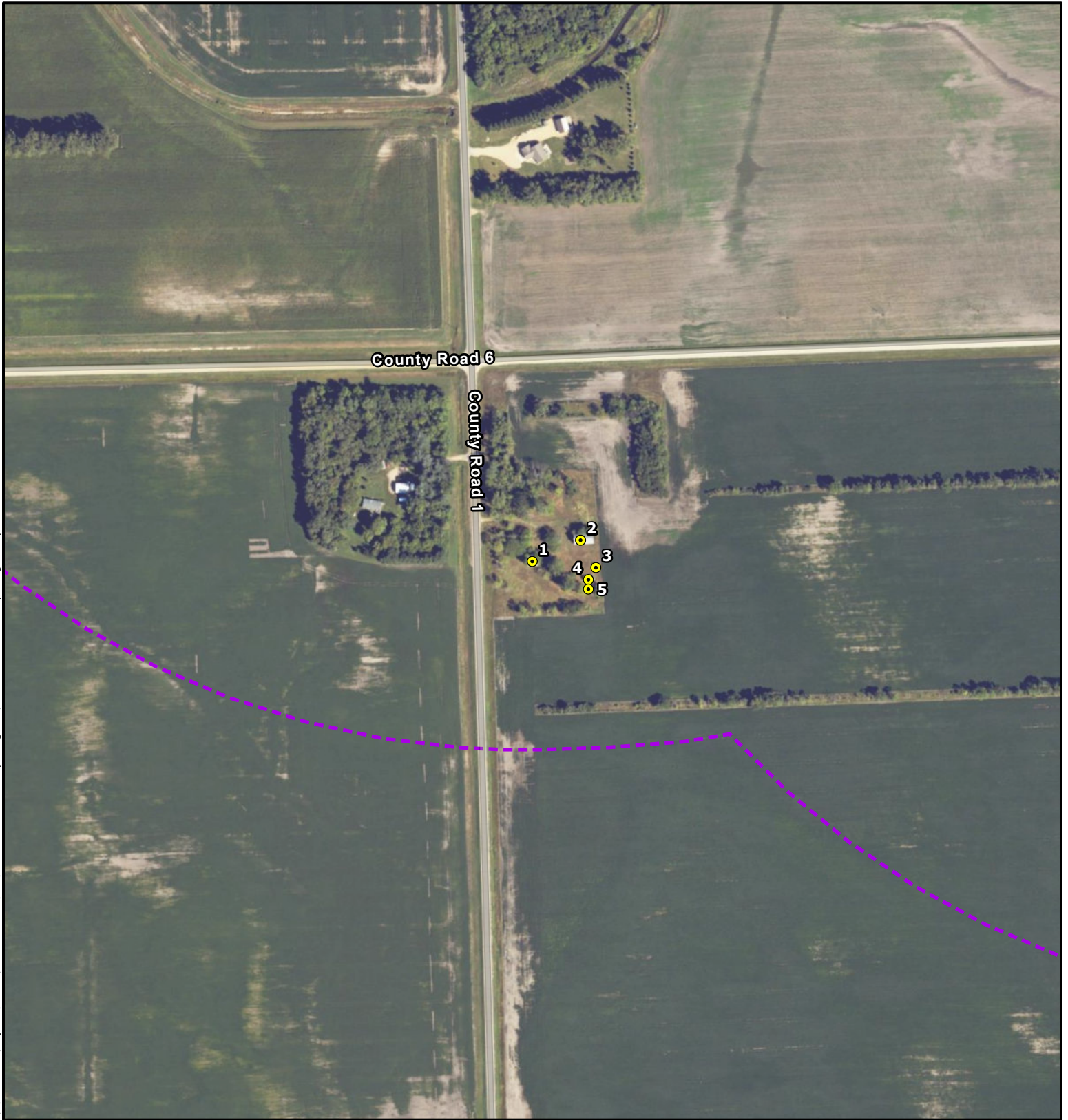
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Source: Map adapted from ESRI USDA FSA NAIP Aerial (2023). Proposed PV panels provided by Flickertail Solar Project, LLC. Structures provided by Tetra Tech Inc. Scale 1:5,000.



3/3/2025 S:\Projects\Savion\GIS\FlickertailSolar_AH_ReportFigures.aprx mike.straskowski



Source: Map adapted from ESRI USDA FSA NAIP Aerial (2023). Proposed PV panels provided by Flickertail Solar Project, LLC. Structures provided by Tetra Tech Inc. Scale 1:5,000.

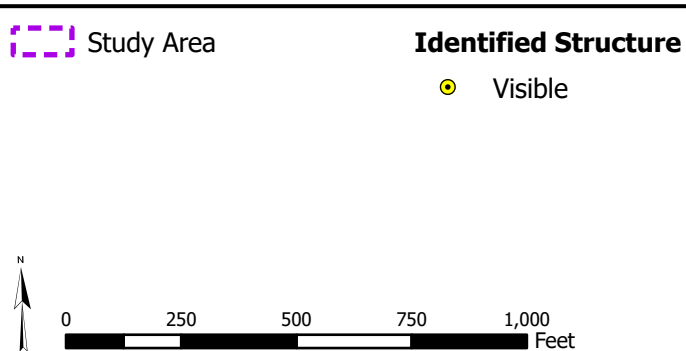
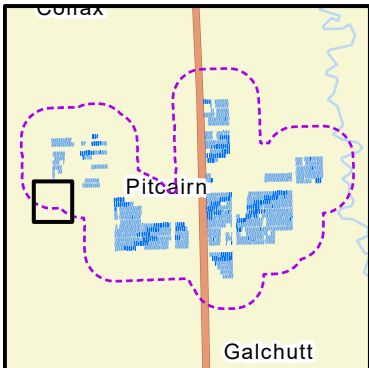


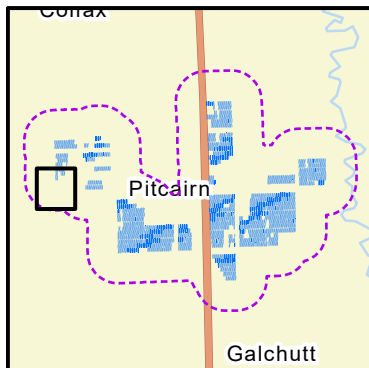
Figure 4
Structure Location OP29

Flickertail Solar Project
Richland County, North Dakota





Source: Map adapted from ESRI USDA FSA NAIP Aerial (2023). Proposed PV panels provided by Flickertail Solar Project, LLC. Structures provided by Tetra Tech Inc. Scale 1:5,000.



- Proposed PV Panel
- Study Area
- Identified Structure**
- Visible

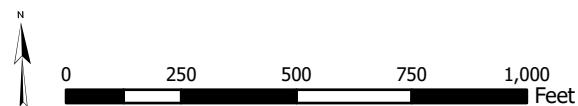


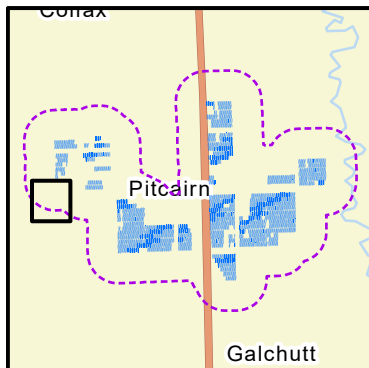
Figure 4
Structure Location OP30

Flickertail Solar Project
Richland County, North Dakota





Source: Map adapted from ESRI USDA FSA NAIP Aerial (2023). Proposed PV panels provided by Flickertail Solar Project, LLC. Structures provided by Tetra Tech Inc. Scale 1:5,000.



- Study Area
- Identified Structure
- Visible
- Not Visible



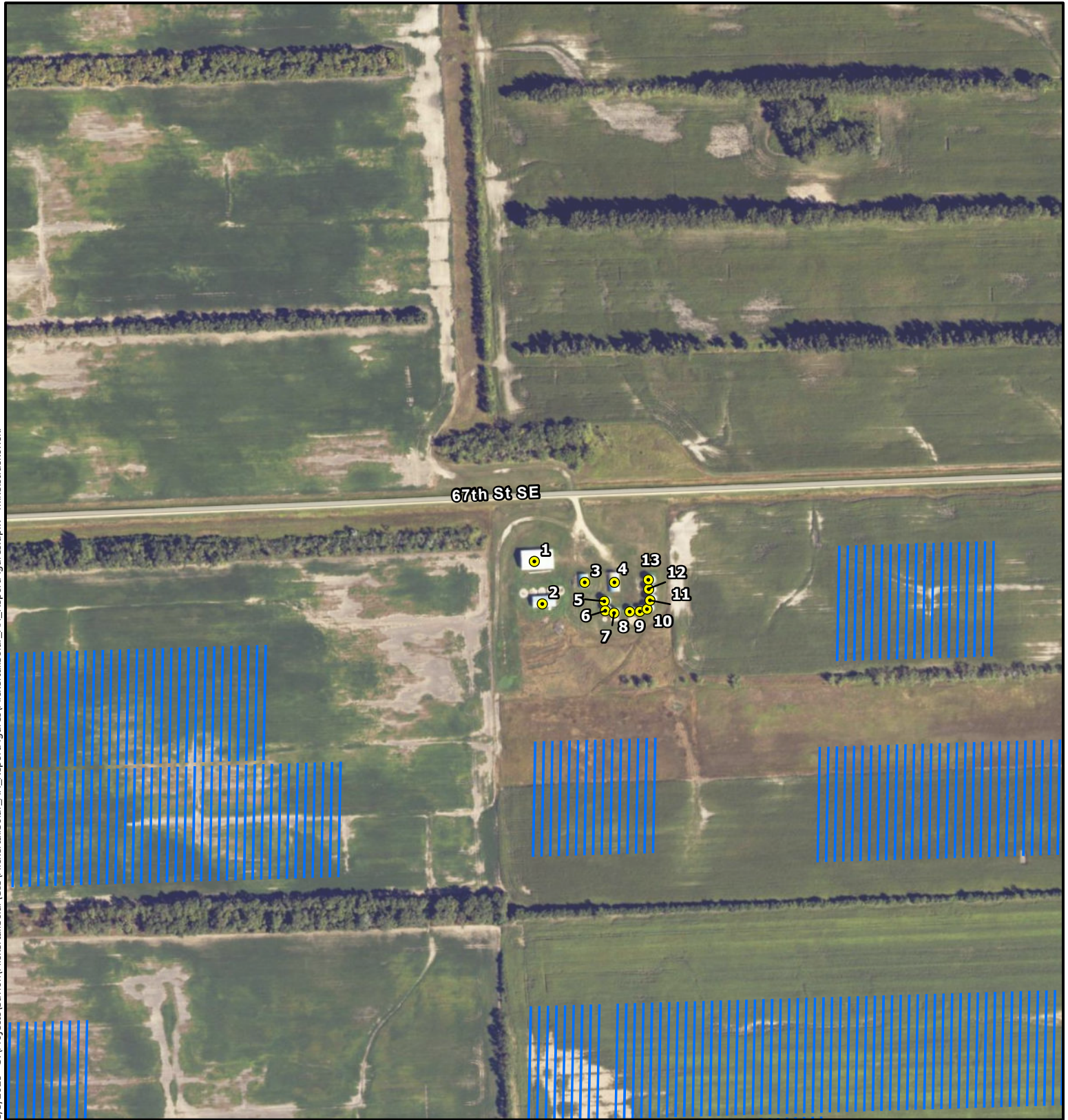
0 250 500 750 1,000 Feet

Figure 4
Structure Location OP32

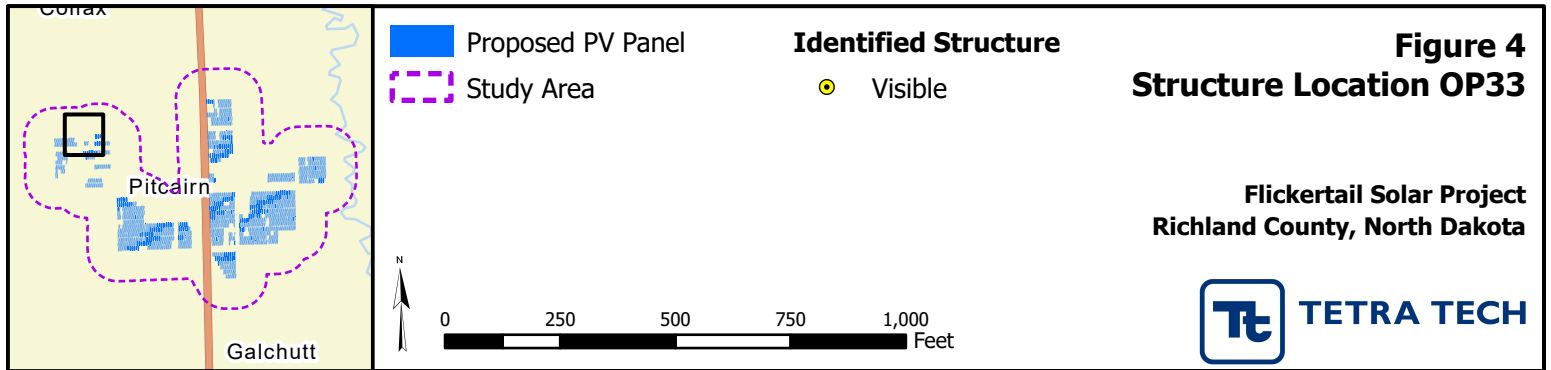
Flickertail Solar Project
Richland County, North Dakota



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Source: Map adapted from ESRI USDA FSA NAIP Aerial (2023). Proposed PV panels provided by Flickertail Solar Project, LLC. Structures provided by Tetra Tech Inc. Scale 1:5,000.



APPENDIX B: SHSND CONSULTATION

SEE HEARING EXHIBIT 5:
ADDITIONAL AGENCY CORRESPONDENCE

Provided Separately

APPENDIX C: PHOTO LOG

Photograph: 1**Location:** OP1**Structure(s):** Overview**Date:** 11/11/2024**Orientation:** Facing southwest**Description:** An overview of Location OP1 from the 173rd Avenue SE ROW.**Photograph: 2****Location:** OP1**Structure(s):** Overview**Date:** 11/11/2024**Orientation:** Facing northwest**Description:** An overview of Location OP1 from the 173rd Avenue SE ROW.

Photograph: 3

Location: OP1

Structure(s): 1

Date: 11/11/2024

Orientation: Facing southwest

Description: A view of Structure 1 from the 173rd Avenue SE ROW.



Photograph: 4

Location: OP1

Structure(s): 2

Date: 11/11/2024

Orientation: Facing southwest

Description: A view of Structure 2 from the 173rd Avenue SE ROW.



Photograph: 5

Location: OP1

Structure(s): 3

Date: 11/11/2024

Orientation: Facing southwest

Description: A view of Structure 3 from the 173rd Avenue SE ROW.



Photograph: 6

Location: OP1

Structure(s): 4

Date: 11/11/2024

Orientation: Facing southwest

Description: A view of Structure 4 from the 173rd Avenue SE ROW.



Photograph: 7**Location:** OP10**Structure(s):** Overview**Date:** 11/11/2024**Orientation:** Facing south**Description:** An overview of Location OP10 from the 68th Street SE ROW.**Photograph: 8****Location:** OP10**Structure(s):** Overview**Date:** 11/11/2024**Orientation:** Facing east**Description:** A general overview of Location OP10 from the 173rd Avenue SE ROW.

Photograph: 9

Location: OP10

Structure(s): 1

Date: 11/11/2024

Orientation: Facing east

Description: A view of Structure 1 from the 68th Street SE ROW.



Photograph: 10

Location: OP10

Structure(s): 2

Date: 11/11/2024

Orientation: Facing south

Description: A view of Structure 2 from the 68th Street SE ROW.



Photograph: 11

Location: OP10

Structure(s): 3

Date: 11/11/2024

Orientation: Facing south

Description: A view of Structure 3 from the 68th Street SE ROW



Photograph: 12

Location: OP11

Structure(s): Overview

Date: 11/11/2024

Orientation: Facing northeast

Description: An overview of Location OP11 from the 68th Street SE ROW.



Photograph: 13

Location: OP11

Structure(s): 1, 15, 18, 19/20, 21, and 23

Date: 11/11/2024

Orientation: Facing northeast

Description: A view of Structures 1, 15, 18, 19/20, 21, and 23 from the 68th Street SE ROW.



Photograph: 14

Location: OP11

Structure(s): 1

Date: 11/11/2024

Orientation: Facing northeast

Description: A view of Structure 1 from the 68th Street SE ROW.



Photograph: 15

Location: OP11

Structure(s): 16, 17, 18,
and 21

Date: 11/11/2024

Orientation: Facing
northeast

Description: A view of
Structures 16, 17 (behind 18),
18, and 21 from the 68th
Street SE ROW.



Photograph: 16

Location: OP11

Structure(s): 22 and 23

Date: 11/11/2024

Orientation: Facing
northeast

Description: A view of
Structures 23 (left silo) and 22
(right silo) from the 68th
Street SE ROW.



Photograph: 17

Location: OP11

Structure(s): 3, 4, 14, and 15

Date: 11/11/2024

Orientation: Facing northeast

Description: A view of Structures 3, 4, 15, and 14 from the 68th Street SE ROW



Photograph: 18

Location: OP11

Structure(s): 3, 12, and 13

Date: 11/11/2024

Orientation: Facing northeast

Description: A view of Structures 3, 12, and 13 from the 68th Street SE ROW.



Photograph: 19

Location: OP11

Structure(s): 3, 4, 5, 13, and 24

Date: 11/11/2024

Orientation: Facing northeast

Description: A view of Structures 3, 4, 5, 13 and 24 from the 68th Street SE ROW



Photograph: 20

Location: OP11

Structure(s): 4, 5, 6, and 7

Date: 11/11/2024

Orientation: Facing northeast

Description: A view of Structures 4, 5, 6 and 7 from the 68th Street SE ROW.



Photograph: 21

Location: OP13

Structure(s): Overview

Date: 11/11/2024

Orientation: Facing north

Description: An overview of Location OP13, viewed from the 172nd Avenue SE ROW.



Photograph: 22

Location: OP13

Structure(s): Overview

Date: 11/11/2024

Orientation: Facing south

Description: An overview of Location OP13, viewed from the 66th Street SE ROW.



Photograph: 23

Location: OP13

Structure(s): 1

Date: 11/11/2024

Orientation: Facing northeast

Description: A view of Structure 1 from the 172nd Avenue SE ROW.



Photograph: 24

Location: OP13

Structure(s): 3

Date: 11/11/2024

Orientation: Facing south

Description: A view of Structure 3 from the 66th Street SE ROW.



Photograph: 25

Location: OP13

Structure(s): 3, 4, 5/6, 9, 10, and 11

Date: 11/04/2023

Orientation: Facing northeast

Description: A view of Structures 3, 4, 5/6, 9, 10, and 11 from the 172nd Avenue SE ROW.



Photograph: 26

Location: OP13

Structure(s): 9, 10, and 11

Date: 11/11/2024

Orientation: Facing south

Description: A view of Structures 11 (left), 10(center), and 9 (right) from the 66th Street SE ROW.



Photograph: 27

Location: OP13

Structure(s): 4, 5/6, 8, and 13

Date: 11/11/2024

Orientation: Facing south

Description: A view of Structures 4, 5/6, 8, and 13 from the 66th Street SE ROW.



Photograph: 28

Location: OP13

Structure(s): 14

Date: 11/11/2024

Orientation: Facing south

Description: A view of Structure 14 from the 66th Street SE ROW.



Photograph: 29

Location: OP13

Structure(s): 15, 16, 17, 18, 19, 20, and 21

Date: 11/11/2024

Orientation: Facing south

Description: A view of Structures 15 through 21 from the 66th Street SE ROW.



Photograph: 30

Location: OP14

Structure(s): Overview

Date: 11/11/2024

Orientation: Facing northwest

Description: An overview of Location OP14 from the 67th Street SE ROW.



Photograph: 31

Location: OP14

Structure(s): 1, 3, and 4

Date: 11/11/2024

Orientation: Facing northwest

Description: A view of Structures 1 (left), 4 (center), and 3 (right) from the 67th Street SE ROW.



Photograph: 32

Location: OP14

Structure(s): 1, 2, and 6

Date: 11/11/2024

Orientation: Facing north

Description: A view of Structures 1 (left), 2 (center) and 6 (right) from the 67th Street SE ROW.



Photograph: 33

Location: OP14

Structure(s): 5 and 6

Date: 11/11/2024

Orientation: Facing northwest

Description: A view of Structures 6 (left) and 5 (right) from the 67th Street SE ROW.



Photograph: 34

Location: OP14

Structure(s): 7, 8, 9, 10, and 11

Date: 11/11/2024

Orientation: Facing northwest

Description: A view of Structures 7 through 11 from the 67th Street SE ROW.



Photograph: 35

Location: OP14

Structure(s): 12

Date: 11/11/2024

Orientation: Facing north

Description: A view of Structure 12 from the 67th Street SE ROW.



Photograph: 36

Location: OP21

Structure(s): Overview

Date: 11/11/2024

Orientation: Facing southwest

Description: An overview of Location OP21 from the 67th Street SE ROW.



Photograph: 37

Location: OP21

Structure(s): 1

Date: 11/11/2024

Orientation: Facing southwest

Description: A view of Structure 1 from the 67th Street SE ROW.



Photograph: 38

Location: OP21

Structure(s): 2

Date: 11/11/2024

Orientation: Facing southwest

Description: A view of Structure 2 from the 67th Street SE ROW.



Photograph: 39

Location: OP21

Structure(s): 1 and 5

Date: 11/11/2024

Orientation: Facing southwest

Description: A view of Structures 1 (left) and 5 (right) from the 67th Street SE ROW.



Photograph: 40

Location: OP21

Structure(s): 4, 5, and 13

Date: 11/11/2024

Orientation: Facing south

Description: A view of the Structures 13 (foreground), 5 (middle) and 4 (background) from the 67th Street SE ROW.



Photograph: 41

Location: OP21

Structure(s): 5 and 14

Date: 11/11/2024

Orientation: Facing south

Description: A view of the roof of Structure 5 (foreground) and the top of Structure 14 (background) from the 67th Street SE ROW



Photograph: 42

Location: OP21

Structure(s): 7, 8, 9, 10, and 12

Date: 11/11/2024

Orientation: Facing south

Description: A view of Structures 7 through 10 and 12 from the 67th Street SE ROW.



Photograph: 43

Location: OP21

Structure(s): 10, 11, and 12

Date: 11/11/2024

Orientation: Facing southwest

Description: A view of Structures 10 through 12 from the 67th Street SE ROW.



Photograph: 44

Location: OP21

Structure(s): 15

Date: 11/11/2024

Orientation: Facing south

Description: A view of Structure 15 from the 67th Street SE ROW.



Photograph: 45

Location: OP21

Structure(s): 15

Date: 11/11/2024

Orientation: Facing southwest

Description: A view of Structure 15 from the 67th Street SE ROW.



Photograph: 46

Location: OP21

Structure(s): 16

Date: 11/11/2024

Orientation: Facing south

Description: A view of Structure 16 from the 67th Street SE ROW.



Photograph: 47

Location: OP23

Structure(s): Overview

Date: 11/11/2024

Orientation: Facing south

Description: An overview of Location OP23 from the 68th Street SE ROW.



Photograph: 48

Location: OP23

Structure(s): 1

Date: 11/11/2024

Orientation: Facing southwest

Description: A view of Structure 1 from the 68th Street SE ROW.



Photograph: 49

Location: OP23

Structure(s): 2

Date: 11/11/2024

Orientation: Facing south

Description: A view of Structure 2 from the 68th Street SE ROW.



Photograph: 50

Location: OP23

Structure(s): 3

Date: 11/11/2024

Orientation: Facing south

Description: A view of Structure 3 from the 68th Street SE ROW.



Photograph: 51

Location: OP23

Structure(s): 4

Date: 11/11/2024

Orientation: Facing south

Description: A view of Structure 4 from the 68th Street SE ROW.



Photograph: 52

Location: OP23

Structure(s): 5

Date: 11/11/2024

Orientation: Facing south

Description: A view of Structure 5 from the 68th Street SE ROW.



Photograph: 53

Location: OP24

Structure(s): Overview

Date: 11/11/2024

Orientation: Facing southwest

Description: An overview of Location OP24 from the 68th Street SE ROW.



Photograph: 54

Location: OP24

Structure(s): 1 and 2

Date: 11/11/2024

Orientation: Facing southwest

Description: A view of Structures 2 (left) and 1 (right) from the 68th Street SE ROW.



Photograph: 55

Location: OP24

Structure(s): 3

Date: 11/11/2024

Orientation: Facing south

Description: A view of Structure 3 from the 68th Street SE ROW.



Photograph: 56

Location: OP24

Structure(s): 4

Date: 11/11/2024

Orientation: Facing south

Description: A view of Structure 4 from the 68th Street SE ROW.



Photograph: 57

Location: OP24

Structure(s): 5

Date: 11/11/2024

Orientation: Facing southwest

Description: A view of Structure 5 from the 68th Street SE ROW.



Photograph: 58

Location: OP26

Structure(s): Overview

Date: 11/11/2024

Orientation: Facing southwest

Description: An overview of Location OP26 from the 69th Street SE ROW.



Photograph: 59

Location: OP26

Structure(s): 1

Date: 11/11/2024

Orientation: Facing southwest

Description: A view of Structure 1 from the 69th Street SE ROW.



Photograph: 60

Location: OP26

Structure(s): 9

Date: 11/11/2024

Orientation: Facing southwest

Description: A view of Structure 9 from the 69th Street SE ROW.



Photograph: 61

Location: OP28

Structure(s): Overview

Date: 11/11/2024

Orientation: Facing west

Description: An overview of Location OP28, viewed from the 170th Avenue SE ROW.



Photograph: 62

Location: OP28

Structure(s): Overview

Date: 11/11/2024

Orientation: Facing northwest

Description: An overview of Location OP28, viewed from the 170th Avenue SE ROW.



Photograph: 63

Location: OP28

Structure(s): 1

Date: 11/11/2024

Orientation: Facing west

Description: A view of Structure 1 from the 170th Avenue SE ROW.



Photograph: 64

Location: OP28

Structure(s): 2

Date: 11/11/2024

Orientation: Facing west

Description: A view of Structure 2 from the 170th Avenue SE ROW.



Photograph: 65

Location: OP28

Structure(s): 1 and 3

Date: 11/11/2024

Orientation: Facing west

Description: A view of Structures 3 (left) and 1 (right) from the 170th Avenue SE ROW.



Photograph: 66

Location: OP28

Structure(s): 1 and 4

Date: 11/11/2024

Orientation: Facing west

Description: A view of Structures 1 (left) and 4 (right) from the 170th Avenue SE ROW.



Photograph: 67

Location: OP28

Structure(s): 5

Date: 11/11/2024

Orientation: Facing west

Description: A view of Structure 5 from the 170th Avenue SE ROW.



Photograph: 68

Location: OP29

Structure(s): Overview

Date: 11/11/2024

Orientation: Facing northeast

Description: An overview of Location OP29 from the 169th Avenue SE ROW.



Photograph: 69

Location: OP29

Structure(s): 1

Date: 11/11/2024

Orientation: Facing
northeast

Description: A view of
Structure 1 from the 169th
Avenue SE ROW.



Photograph: 70

Location: OP29

Structure(s): 2

Date: 11/11/2024

Orientation: Facing east

Description: A view of
Structure 2 from the 169th
Avenue SE ROW.



Photograph: 71

Location: OP29

Structure(s): 1 and 2

Date: 11/11/2024

**Orientation: Facing
northeast**

Description: A view of
Structures 1 (left) and 2
(right) from the 169th Avenue
SE ROW.



Photograph: 72

Location: OP29

Structure(s): 3, 4, and 5

Date: 11/11/2024

**Orientation: Facing
northeast**

Description: A view of
Structures 3 (left), 4 (center),
and 5 (right) from the 169th
Avenue SE ROW.



Photograph: 73

Location: OP30

Structure(s): Overview

Date: 11/11/2024

Orientation: Facing east

Description: An overview of Location OP30 from the 169th Avenue SE ROW.



Photograph: 74

Location: OP30

Structure(s): 1

Date: 11/11/2024

Orientation: Facing east

Description: A view of Structure 1 from the 169th Avenue SE ROW.



Photograph: 75

Location: OP30

Structure(s): 2 and 3

Date: 11/11/2024

Orientation: Facing east

Description: A view of Structures 2 (background) and 3 (foreground) from the 169th Avenue SE ROW.



Photograph: 76

Location: OP32

Structure(s): Overview

Date: 11/11/2024

Orientation: Facing west

Description: An overview of Location OP32 from the 169th Avenue SE ROW.



Photograph: 77

Location: OP32

Structure(s): 1

Date: 11/11/2024

Orientation: Facing west

Description: A view of Structure 1 from the 169th Avenue SE ROW.



Photograph: 78

Location: OP32

Structure(s): 3

Date: 11/11/2024

Orientation: Facing west

Description: A view of Structure 3 from the 169th Avenue SE ROW.



Photograph: 79

Location: OP33

Structure(s): Overview

Date: 11/11/2024

Orientation: Facing south

Description: An overview of Location OP33 from the 67th Street SE ROW.



Photograph: 80

Location: OP33

Structure(s): 1

Date: 11/11/2024

Orientation: Facing south

Description: A view of Structure 1 from the 67th Street SE ROW.



Photograph: 81

Location: OP33

Structure(s): 2

Date: 11/11/2024

Orientation: Facing south

Description: A view of Structure 2 from the 67th Street SE ROW.



Photograph: 82

Location: OP33

Structure(s): 3

Date: 11/11/2024

Orientation: Facing south

Description: A view of Structure 3 from the 67th Street SE ROW.



Photograph: 83

Location: OP33

Structure(s): 4, 7, 8, and 9

Date: 11/11/2024

Orientation: Facing south

Description: A view of Structures 4, 8 (behind 4), 9, and 7 from the 67th Street SE ROW.



Photograph: 84

Location: OP33

Structure(s): 4, 9, 10, 11, 12, and 13

Date: 11/11/2024

Orientation: Facing south

Description: A view of Structures 4 and 9 through 13 from the 67th Street SE ROW.



Photograph: 85

Location: OP33

Structure(s): 5, 6, and 7

Date: 11/11/2024

Orientation: Facing south

Description: A view of Structures 7 (left), 5 (center), and 6 (right) from the 67th Street SE ROW.

