

Categorical Exclusion
Appendix F
Water Resources

**Waters of the US Determination
 281st Street Reconstruction
 Hamilton County, Indiana
 Des. No. 2003031**

Prepared by: Jenna Garrison, RQAW Corporation

Completed Date: November 30, 2023

Dates of Waters Field Investigation:

A field investigation was conducted on August 8, 2023, by RQAW Corporation to evaluate the presence of *Waters of the United States* for the proposed reconstruction project on along 281st Street in Hamilton County, Indiana.

Location:

281st Street, between SR 19 and SR 213
 Sections: 7, 8, 12, Township: 20-N, Range: 4-E & 5-E
 Arcadia and Omega US Geological Survey (USGS) Quadrangles
 Hamilton County, Indiana

West Coordinates

Latitude: 40.19781° N
 Longitude: -86.02244° W

East Coordinates

Latitude: 40.19846° N
 Longitude: -85.93922° W

Project Description

Hamilton County, with funding from the Federal Highway Administration (FHWA), proposes to proceed with a roadway project in Hamilton County, Indiana (Des. No. 2003031). The project will include widening 281st street to meet current Indiana Department of Transportation (INDOT) standards. Small structures will be replaced as needed and a curb and gutter with storm sewer inlets will be installed near the Town of Omega.

National Wetlands Inventory (NWI) Wetlands:

According to the U.S. Fish and Wildlife (USFWS) National Wetlands Inventory (NWI) data available through IndianaMap (<http://www.indianamap.org/>), three NWI polygons are located within the investigation area. Of these, one polygon is identified as R2UBH (Riverine, Lower Perennial, Unconsolidated Bottom, Permanently Flooded) wetland, which transects the investigation area, and surrounds the channel of Cicero Creek. The second polygon is identified as PFO1C (Palustrine, Forested, Broad-Leaved Deciduous, Seasonally Flooded) wetland, which enters the investigation area adjacent to Cicero Creek and overlaps with the delineated Wetland C. The remaining NWI polygon was identified as being a R2UBHx (Riverine, Lower Perennial, Unconsolidated Bottom, Permanently Flooded, Excavated) wetland and is confined to the channel of Weasel Creek. A map showing the NWI layer turned on is provided in the attachments (Pages A15- A-17).

National Geological Survey (USGS) National Hydrography Dataset (NHD):

According to the United States National Geological Survey (USGS) National Hydrography Dataset (NHD), there are 17 NHD lines within the investigation area. One NHD line is classified as an Artificial Path, one is classified as a Canal/Ditch and 15 are classified as a Stream/River. The line classified as an Artificial Path was verified during a field investigation as Cicero Creek. One Stream/River was verified as UNT 1 to Cicero Creek and another as Weasel Creek. The Canal/Ditch was verified as Roadside ditch (RSD 8). Further information about verified streams can be found in the streams section of this report. A map showing the NHD flowline layer turned on is provided in the attachments (Pages A15- A-17).

Soils:

According to the Soil Survey Geographic (SSURGO) Database for Hamilton County, Indiana the investigation area contains five soil areas with nationally listed hydric soil (Pages A9-A11)

Table 1: NRCS SSURGO Mapped Soil Units

<u>Soil Unit Name</u>	<u>Symbol</u>	<u>NRCS Flooding Frequency</u>	<u>NRCS Drainage Class</u>	<u>SSURGO Hydric Rating</u>
Brookston silty clay loam, 0-2% slopes	Br	None	Poorly drained	95% Predominantly hydric
Crosby silt loam, fine-loamy, 0-2% slopes	CrA	None	Somewhat poorly drained	2% Predominantly non-hydric
Miami silt loam, 2-6% slopes, eroded	MnB2	None	Moderately well drained	6% Predominantly non-hydric
Patton silty clay loam, 0-2 % slopes	Pn	None	Poorly drained	90% Predominantly hydric
Shoals silt loam, 0-2% slopes, frequently flooded, brief duration	Sh	Frequent	Somewhat poorly drained	4% Predominantly non-hydric

Attachments:

Removed to avoid duplication

~~Project Location and Topographic Maps.....A1 – A8~~
 Natural Resources Conservation Service (NRCS) Soil Survey Maps.....A9 – A11
 StreamStatsA12 – A14
 NWI Map & NHD Maps.....A15 – A17
 IDNR FARA Reports.....A18 – A19
 Water Resources Map.....A20 – A26
 Photograph Location Maps and Photographs.....A27 – A149
 Wetland Determination Forms.....A150 – A165
 Pre-Jurisdictional Determination Form.....A166 – A169

Streams:

According to the hydrology data available through IndianaMap (<http://www.indianamap.org/>) Aradian & Omega USGS topographic map (1:24,000 scale), eight USGS blue line stream is mapped within the investigation area. Upon the field investigation the presence of three streams, Cicero Creek, unnamed tributary (UNT) 1 to Cicero Creek and Weasel Creek were verified.

Table 2: Stream Summary Table

Stream Name	Lat/Long	Photo Map Page(s) Photo Log Page(s) Photo Number(s)	USGS Blue line?	Upstream Drainage Area (sq mi)	Flow Regime	Length in Study Area (ft)	OHWM Width (ft) Depth (ft)	Riffles/ Pools?	Substrate	Quality	Likely Waters of U.S.?
Cicero Creek	40.19770 N, -86.01371 W	Map: A22-A23	Yes	121.234	PER	271	W: 58 D: 2.5	Yes Yes	Silt, Cobble, Gravel	Average	Yes
		Log: A31									
		Nos.: 38-48									
UNT 1 to Cicero Creek	40.19763 N, -86.01269 W	Map: A23-A24	Yes	0.001	INT	40	W: 3.2 D: 0.5	No No	Silt, Cobble	Poor	Yes
		Log: A31									
		Nos.: 72-74									
Weasel Creek	40.19802 N, -85.976053W	Map: A26	Yes	6.004	INT	287	W: 9.5 D: 1.25	No No	Silt, Cobble	Poor	Yes
		Log: A50									
		Nos.: 127-128, 133-134									

12 Digit HUC:

Weasel Creek-Cicero Creek: HUC-051202010606

Lamberson Ditch-Duck Creek: HUC-051202010505

Bear Creek: HUC-051202010504

Cicero Creek flows in a northwest to southeast direction and flows under 281st St. via a bridge (Structure 29-00064). Approximately 271 feet (0.36 acre), in total, of Cicero Creek is within the investigation area. Cicero Creek is a perennial stream with average quality and exhibited a downstream Ordinary High Water Mark (OHWM) of 58 feet wide and 2.5 feet deep. Cicero Creek is classified as a USGS perennial blue line stream and an Artificial Path NHD line.

Cicero Creek exhibited average quality due to the low turbidity in the water, the presence of aquatic fauna and riffle/pool complexes. Cicero Creek flows into Morse Reservoir and continues until it reaches the White River, which is a traditional navigable waterway (TNW). Based in its contribution of perennial flow to a TNW, Cicero Creek is likely considered a *Water of the United States*. Please refer to Table 2 for detailed information about Cicero Creek.

UNT 1 to Cicero Creek flows in a north to south direction and begins at the outlet of an unclassified corrugated metal pipe (CMP) structure which carries 281st St. Approximately 40 feet (0.003 acre), in total, of UNT 1 to Cicero Creek is within the investigation area. UNT 1 to Cicero Creek is an intermittent stream with poor quality and exhibited a OHWM of 3.2 feet wide and 0.5 feet deep. UNT 1 to Cicero Creek is classified as a USGS perennial blue line stream and a Stream/River NHD line.

UNT 1 to Cicero Creek exhibited poor quality due to the low volume and infrequent duration of flow and lack of riffle and pool complex. UNT 1 to Cicero Creek flows into Cicero Creek, which flows into Morse Reservoir, which flows into the White River, a TNW. Based in its contribution of flow to a TNW, UNT 1 to Cicero Creek is likely considered a *Water of the United States*. Please refer to Table 2 for detailed information about UNT 1 Cicero Creek.

Weasel Creek flows in a northeast to southwest direction and flows under 281st St. via a bridge (Structure 29-00066). Approximately 287 feet (0.06 acre), in total, of Weasel Creek is within the investigation area. Weasel Creek is an intermittent stream with poor quality and exhibited a downstream OHWM of 9.5 feet wide and 1.25 feet deep and is classified as a USGS perennial blue line stream and a Stream/River NHD line.

Weasel Creel exhibited poor quality due to the low volume, lack of riffle and pool complete and the influence of road and agricultural runoff. Weasel Creek flows into Cicero Creek, which flows into Morse Reservoir, which flows into the White River, a TNW. Based in its contribution of flow to a TNW, Weasel Creek is likely considered a *Water of the United States*. Please refer to Table 2 for detailed information about Weasel Creek.

Table 3: Wetland Summary Table

Wetland Name	Lat/ Long	Photo Map Page(s) Photo Log Page(s) Photo Number(s)	Hydric Soil Indicators	Hydrology Indicators (Primary/ Secondary)	Type	Total Area (ac)	Quality	Likely Waters of U.S.?
Wetland A	40.19746N, -86.01942W	Map: A21	F3	A3	PEM	0.05	Poor	Yes
		Log: A28		D2, D5				
		Nos.: 5-15						
Wetland B	39.69263N, -86.66535W	Map: A23-A24	F3	A3	SS	0.5	Average	Yes
		Log: A31-A32		D2, D5				
		Nos.: 56-71						
Wetland C	39.75121N, -86.65090W	Map: A23-A24	A11, F3	A3, B1, B8	PFO	0.2	Average	Yes
		Log: A31-A32		D5				
		Nos.: 72-91						

Wetlands:

Three wetlands (Wetland A Wetland B and Wetland C) were identified within the investigation area during the field inspection. A discussion of this wetland is provided below as well as Table 3: Wetland Summary Table and Table 4: Data Point Summary Table for detailed information.

Wetland A is a palustrine emergent (PEM) wetland located just south of 281st St. This wetland would likely be considered poor quality due to its small size, low species diversity and disturbance from the roadway. Wetland A has a direct surface drainage connection to a likely jurisdictional river, therefore, is most likely a *Waters of the US*.

Data point A1 was taken within Wetland A. The dominant vegetation observed within the herb stratum was Creeping-Jenny (*Lysimiachia nummularia*) (FACW) and White Panicle American Aster (*Symphotrichum lanceolatum*) (FAC). Data point A1 met all three criteria to be considered within a wetland. Please refer to Data Sheet A1 (Pages A150-A151) and Table 3 for more detailed information.

Data point A2 was taken approximately 45 feet southwest of data point A1. The dominant vegetation observed within the herb stratum was Red Fescue (*Festuca rubra*) (FACU). This data point failed to meet all three criteria to be considered within a wetland. Please refer to Data Sheet A2 (Pages A152-A153) for more detailed information.

Wetland B is a scrub shrub (SS) wetland located just north of 281st St. This wetland would likely be considered average quality due to its small size, species diversity and disturbance from the roadway. Wetland B has a direct surface drainage connection to a likely jurisdictional river, therefore, is most likely a *Waters of the US*.

Data point B1 was taken within Wetland B. The dominant vegetation observed within the tree stratum was Black Willow (*Salix nigra*) (OBL) and Green Ash (*Fraxinus pennsylvanica*) (FACW). The dominant species in the sapling/shrub stratum was Green Ash (*Fraxinus pennsylvanica*) (FACW). The dominant species in the herb stratum was Reed Canary Grass (*Phalaris arundinacea*) (FACW). Data point B1 met all three criteria to be considered within a wetland. Please refer to Data Sheet B1 (Pages A154-A155) and Table 3 for more detailed information.

Data point B2 was taken approximately 75 feet northwest of data point B1. The dominant species in the sapling/shrub stratum was Green Ash (*Fraxinus pennsylvanica*) (FACW). The dominant vegetation observed within the herb stratum was Green-Head Coneflower (*Rudbeckia laciniata*) (UPL), was Reed Canary Grass (*Phalaris arundinacea*) (FACW), Giant Ironweed (*Vernonia gigantea*) (FAC), Canadian Goldenrod (*Solidago canadensis*) (FACU). This data point failed to meet all three criteria to be considered within a wetland. Please refer to Data Sheet B2 (Pages A156-A157) for more detailed information.

Wetland C is a palustrine forested (PFO) wetland located just south of 281st St. This wetland would likely be considered average quality due to its small size, species diversity and disturbance from the roadway. Wetland B has a direct surface drainage connection to a likely jurisdictional river, therefore, is most likely a *Waters of the US*.

Data point C1 was taken within Wetland C. The dominant vegetation observed within the tree stratum was Green Ash (*Fraxinus pennsylvanica*) (FACW) and Ash-leaf Maple (*Acer negundo*) (FAC). The dominant species in the herb stratum was Canadian Clearweed (*Pilea pumila*) and Creeping-Jenny (*Lysimiachia nummularia*) (FACW). Data point C1 met all three criteria to be considered within a wetland. Please refer to Data Sheet C1 (Pages A158-A159) and Table 3 for more detailed information.

Data point C2 was taken approximately 90 feet east of data point C1. The dominant species in the tree stratum was Red Maple (*Acer rubrum*) (FAC). The dominant species in the sapling/shrub stratum was Ohio Buckeye (*Aesculus glabra*) (FAC). The dominant vegetation observed within the herb stratum was Red Fescue (*Festuca rubra*) (FACU), Woodland Lettuce (*Lactuca floridana*) (FACU) and Canadian Wild Ginger (*Asarum canadense*) (FACU). This data point failed to meet all three criteria to be considered within a wetland. Please refer to Data Sheet C2 (Pages A160-A161) for more detailed information.

Upland (UP) Data Point:

Two upland data points (UP1, UP2) were taken to confirm the absence of wetlands. A discussion of these data points is provided below.

UP1 is in the northeast side of Structure 29-00064 just north of 281st St. The dominant vegetation within the tree stratum was Boxelder Maple (*Acer negundo*) (FAC). The dominant species in the sapling/shrub layer was Green Ash (*Fraxinus pennsylvanica*) (FACW). The dominant species in the herb stratum was Reed Canary Grass (*Phalaris arundinacea*) (FACW). The dominant species in the woody vine stratum was River Grape (*Vitis riparia*) (FACW). The data point did exhibit hydrophytic vegetation but did not exhibit hydric soils or wetland hydrology. This data point failed to meet all three criteria to be considered within a wetland. Please refer to Data Sheet UP1 (Pages A162-A163) for more detailed information.

UP2 is located just south of 281st St and taken in a drainage area where an NHD River/Stream line is present on the NHD GIS layer (Page A). The dominant species observed in the herb stratum was Reed Canary Grass (*Phalaris arundinacea*) (FACW) and Canadian Thistle (*Cirsium arvense*) (FACU). The data point did exhibit hydrophytic vegetation but did not exhibit hydric soils or wetland hydrology. This data point failed to meet all three criteria to be considered within a wetland. Please refer to Data Sheet UP2 (Pages A164-A165) for more detailed information.

Table 4: Wetland Data Point Summary Table

Data Point	Vegetation?	Hydric Soil?	Wetland Hydrology?	Wetland?
A1	Yes	Yes	Yes	Yes
A2	No	No	No	No
B1	Yes	Yes	Yes	Yes
B2	Yes	No	No	No
C1	Yes	Yes	Yes	Yes
C2	No	No	No	No
UP1	Yes	No	No	No
UP2	Yes	No	No	No

Roadside Ditches:

Eleven roadside ditches (RSD) were identified within the investigation area (RSD 1- RSD 11). All RSDs lacked an OHWM and wetland characteristics; therefore, were not considered to be a wetland or a stream. RSD 1- RSD 11 locations are shown in the attachments (Pages A20-A26) and below in Tabel 5.

Table 5: Roadside Ditch Summary Table

RSD No.	Location (North/south of 281 st)	Length (ft)	Flow Direction	Lat (°N) / Long (°W) (Center Point)
RSD 1	South	68	S	40.19735, -86.02226
RSD 2	North	95	S	40.19776, -86.02227
RSD 3	South	102	E	40.19749, -86.01519
RSD 4	North	46	E	40.19761, -86.01528
RSD 5	South	270	E	40.19752, -86.01439
RSD 6	North	76	E	40.19768, -86.01426
RSD 7	South	105	W	40.19794, -86.01171
RSD 8	North	234	E	40.19813, -85.97639
RSD 9	West	182	E	40.19792, -85.97650
RSD 10	North	250	W	40.19812, -85.97539
RSD 11	South	254	W	40.19794, -85.97558

Open Water:

No open water features were identified to be within the investigation area.

Conclusions:

A field investigation was conducted on August 8, 2023, by RQAW Corporation to evaluate the presence of *Waters of the United States* for the 281st St Rehabilitation in Hamilton County, Indiana. Field observations identified one perennial stream, Cicero Creek, and two intermittent streams, UNT 1 to Cicero Creek and Weasel Creek in the investigation area. Three wetlands, Wetland A, Wetland B and Wetland C were also identified within the investigation area.

Based on its contribution of perennial and intermittent flows to the White River, a TNW, Cicero Creek, UNT 1 to Cicero Creek and Weasel Creek would likely be considered a *Water of the United States*. Based on their hydrological connection to a TNW, the White River, Wetland A, Wetland B and Wetland C are also likely to be considered *Water of the United States*.

Wildlife Crossings:

Multiple small structure culverts within the investigation area may be potential crossings for wildlife. The larger structures, Structure 29-00064 over Cicero Creek and Structure 29-00066 over Weasel Creek could both be used by larger animals such as deer for crossings. No tracks were seen at the time of the investigation.

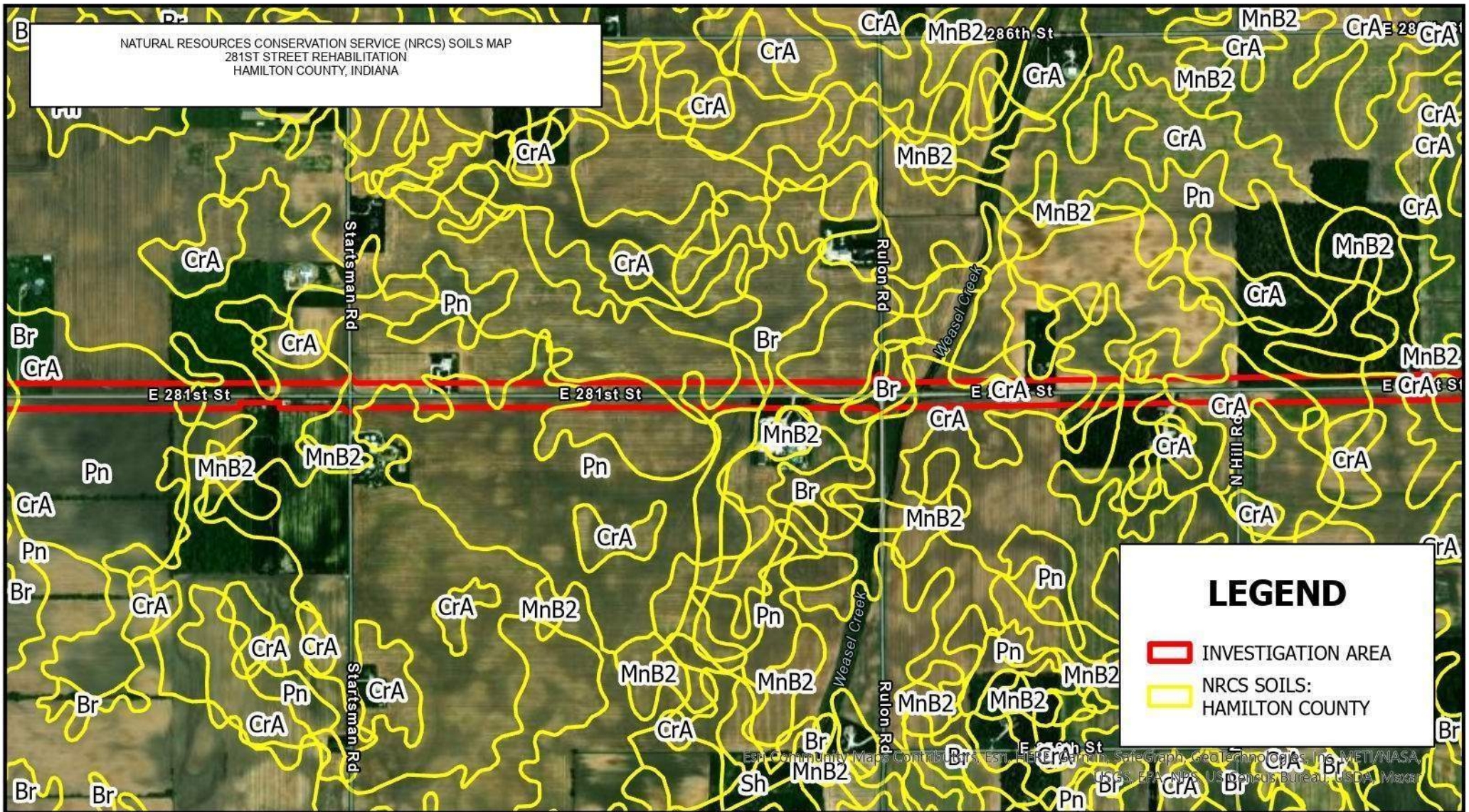
Every effort should be taken to avoid and minimize impacts to these waterways. If impacts are necessary, then mitigation may be required. The final determination of jurisdictional waters is ultimately made by the U.S. Army Corps of Engineers. This report is our best judgement based on the guidelines set forth by the Corps.

Acknowledgement:

This waters determination has been prepared based on the best available information, interpreted in the light of the investigator's training, experience and professional judgement in conformance with the 1987 Corps of Engineers Wetlands Delineation Manual, the appropriate regional supplement, the USACE Jurisdictional Determination Form Instructional Guidebook, and other appropriate agency guidelines.

Prepared by:

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November 30, 2023
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RQAW | Environmental Department
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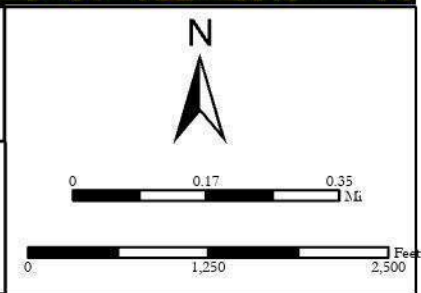


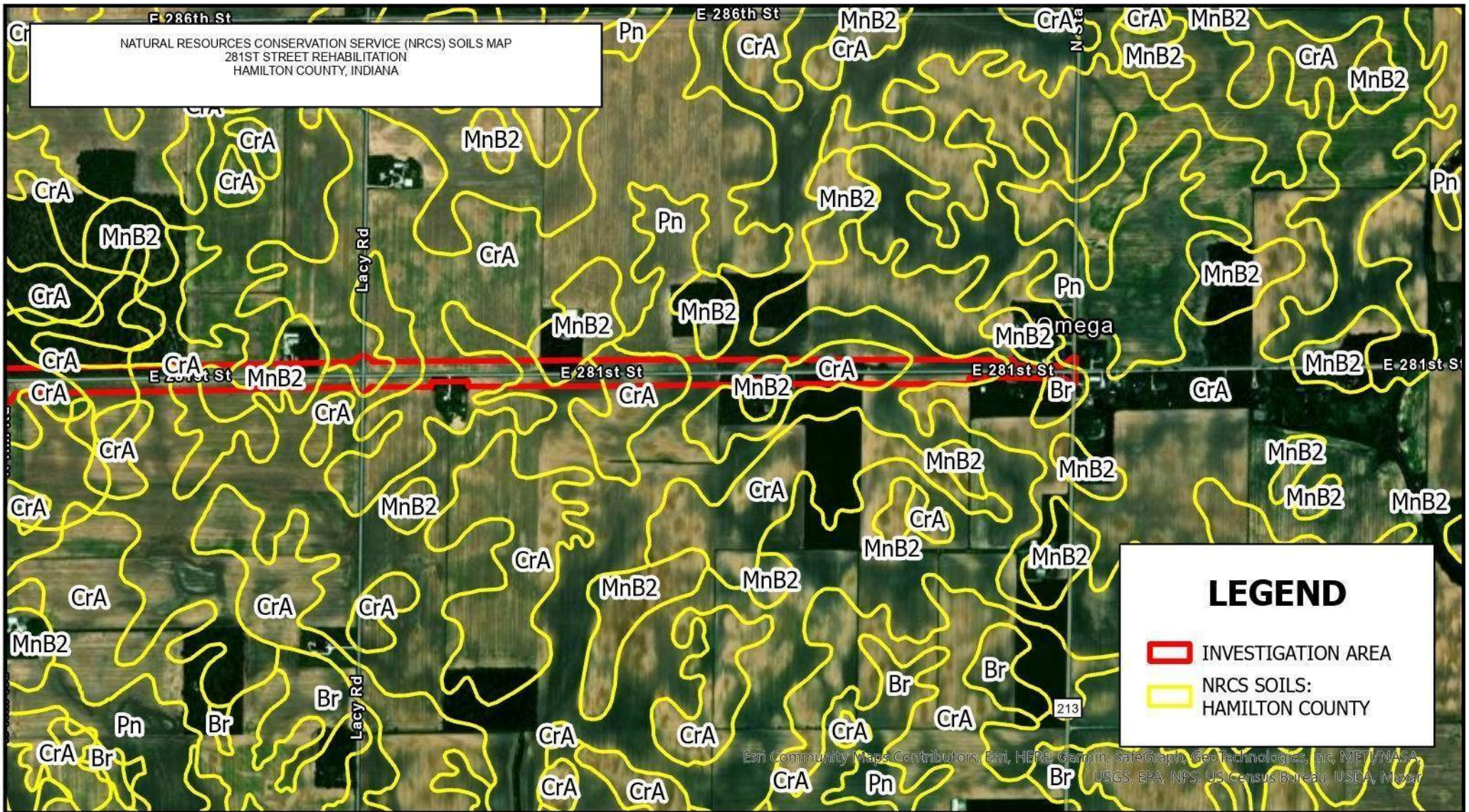
NRCS SOILS MAP

LOCATION: 281ST ST. FROM SR 19 TO SR 213
DES. NO.: 2003031
COUNTY: HAMILTON

PAGE 2 OF 3

Date: 11/08/2023



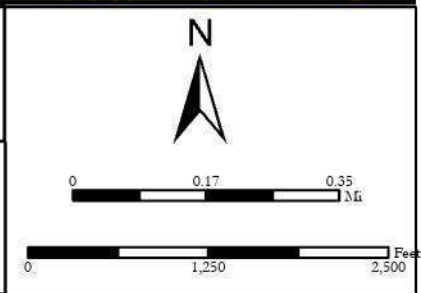


NRCS SOILS MAP

LOCATION: 281ST ST. FROM SR 19 TO SR 213
DES. NO.: 2003031
COUNTY: HAMILTON

PAGE 3 OF 3

Date: 11/08/2023



StreamStats Report- Cicero Creek

Region ID: IN

Workspace ID: IN20231116025439088000

Clicked Point (Latitude, Longitude): 40.19771, -86.01353

Time: 2023-11-15 21:54:59 -0500



[+ Collapse All](#)

➤ Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	121.234	square miles

USGS Data Disclaimer: Unless otherwise stated, all data, metadata and related materials are considered to satisfy the quality standards relative to the purpose for which the data were collected. Although these data and associated metadata have been reviewed for accuracy and completeness and approved for release by the U.S. Geological Survey (USGS), no warranty expressed or implied is made regarding the display or utility of the data for other purposes, nor on all computer systems, nor shall the act of distribution constitute any such warranty.

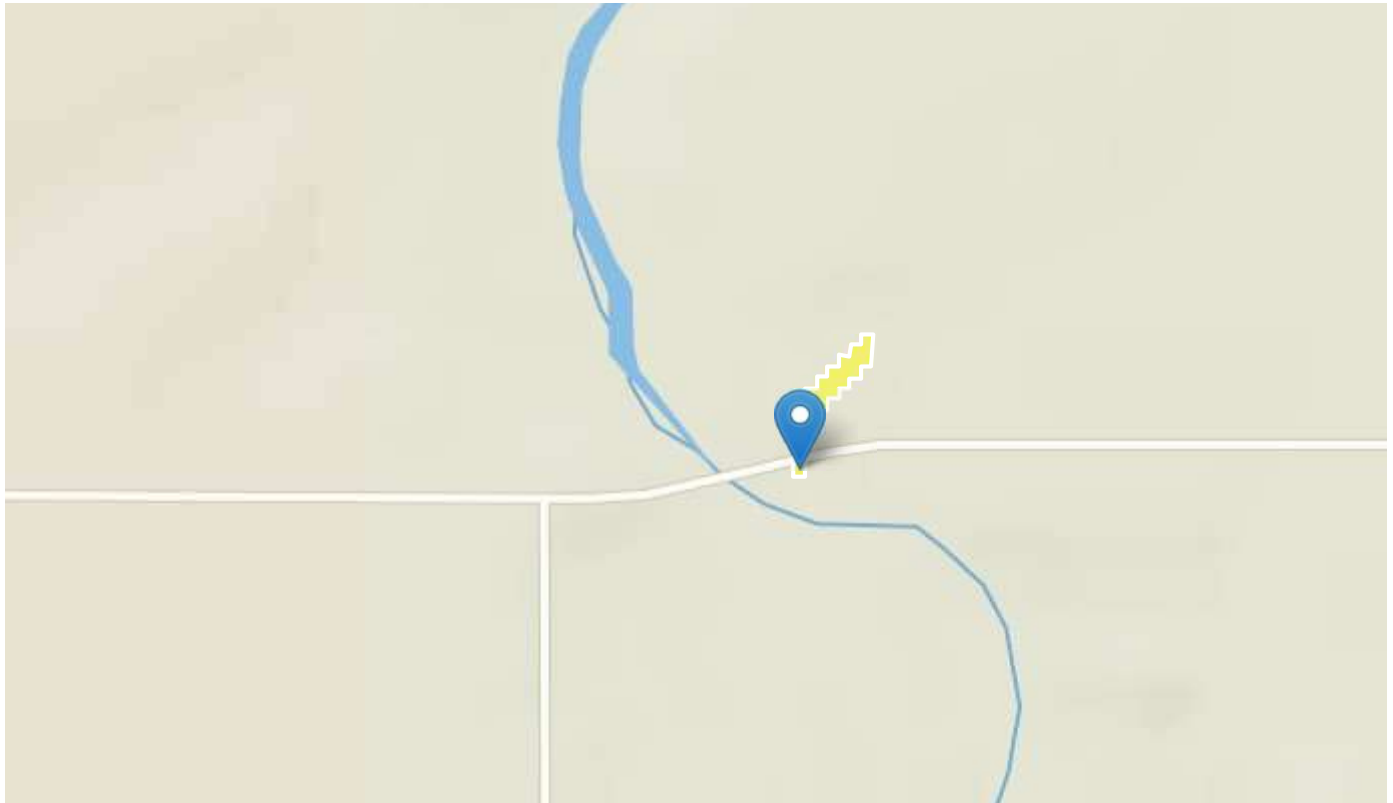
StreamStats Report-UNT 1 to Cicero Creek

Region ID: IN

Workspace ID: IN20231116025917906000

Clicked Point (Latitude, Longitude): 40.19778, -86.01275

Time: 2023-11-15 21:59:38 -0500



[+ Collapse All](#)

➤ Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.001	square miles

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StreamStats Report-Weasel Creek

Region ID: IN

Workspace ID: IN20231116030321006000

Clicked Point (Latitude, Longitude): 40.19812, -85.97594

Time: 2023-11-15 22:03:41 -0500



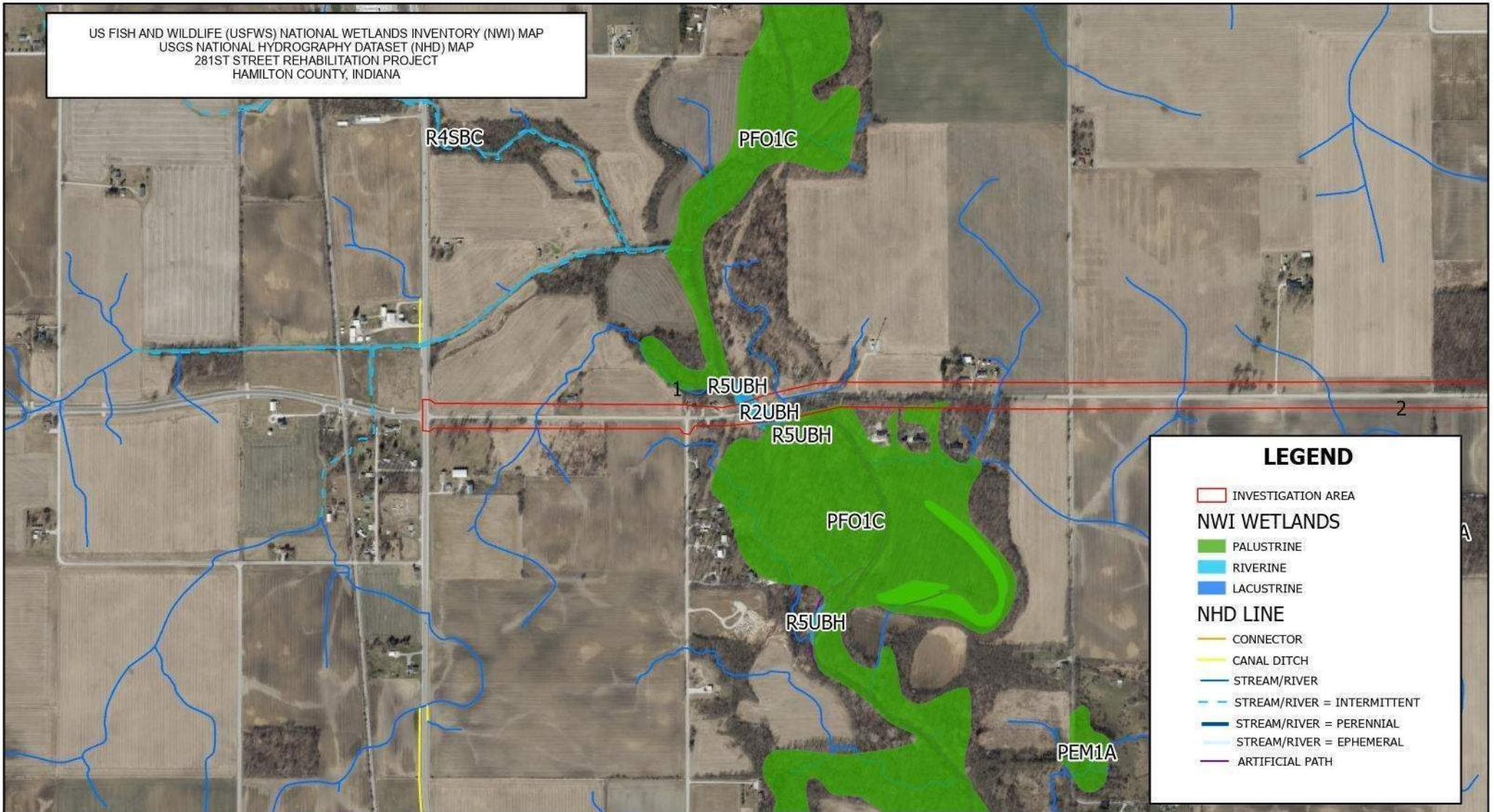
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➤ Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	6.004	square miles

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US FISH AND WILDLIFE (USFWS) NATIONAL WETLANDS INVENTORY (NWI) MAP
 USGS NATIONAL HYDROGRAPHY DATASET (NHD) MAP
 281ST STREET REHABILITATION PROJECT
 HAMILTON COUNTY, INDIANA



LEGEND

- INVESTIGATION AREA
- NWI WETLANDS**
- PALUSTRINE
- RIVERINE
- LACUSTRINE
- NHD LINE**
- CONNECTOR
- CANAL DITCH
- STREAM/RIVER
- STREAM/RIVER = INTERMITTENT
- STREAM/RIVER = PERENNIAL
- STREAM/RIVER = EPHEMERAL
- ARTIFICIAL PATH

RQAW

DCCM

NWI & NHD MAP

PAGE 1 OF 3

LOCATION: 281ST ST. FROM SR 19 TO SR 213
 DES. NO.: 2003031
 COUNTY: HAMILTON

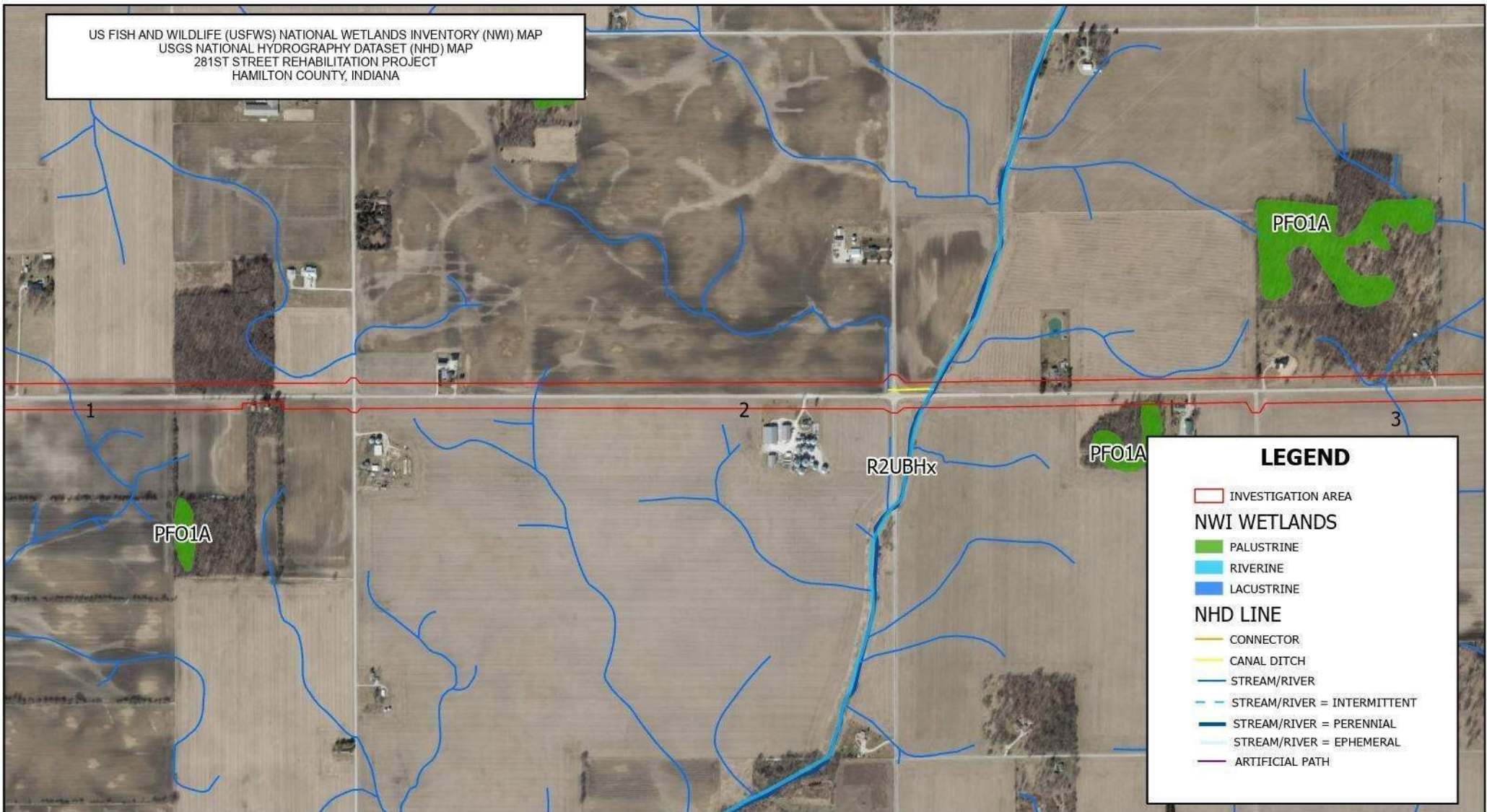
Date: 11/08/2023

N

0 0.23 0.45
 Miles

0 1,250 2,500
 Feet

US FISH AND WILDLIFE (USFWS) NATIONAL WETLANDS INVENTORY (NWI) MAP
 USGS NATIONAL HYDROGRAPHY DATASET (NHD) MAP
 281ST STREET REHABILITATION PROJECT
 HAMILTON COUNTY, INDIANA

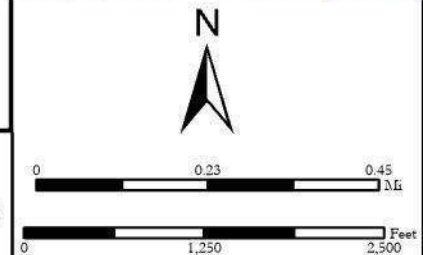


NWI & NHD MAP

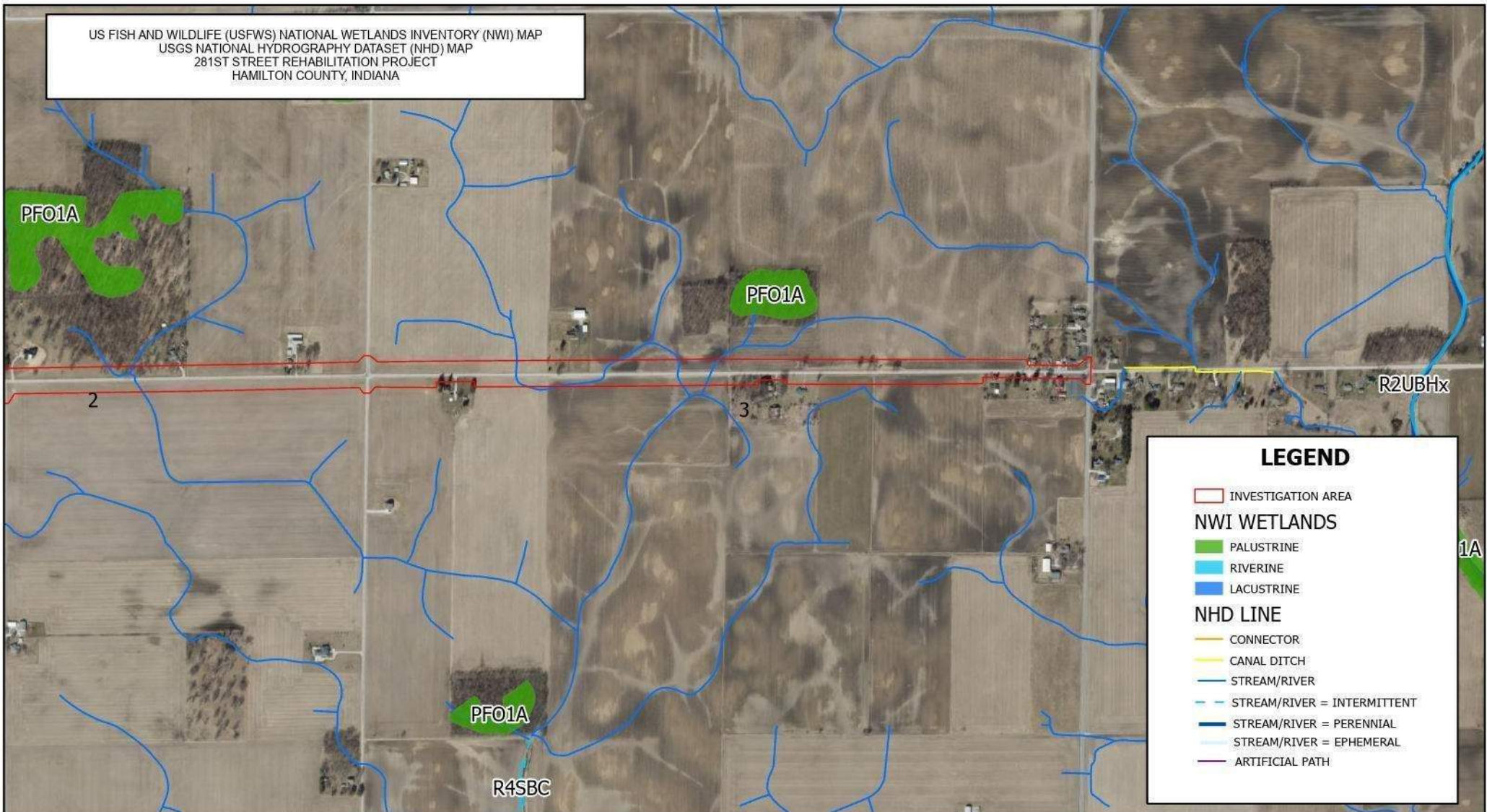
LOCATION: 281ST ST. FROM SR 19 TO SR 213
 DES. NO.: 2003031
 COUNTY: HAMILTON

PAGE 2 OF 3

Date: 11/08/2023



US FISH AND WILDLIFE (USFWS) NATIONAL WETLANDS INVENTORY (NWI) MAP
 USGS NATIONAL HYDROGRAPHY DATASET (NHD) MAP
 281ST STREET REHABILITATION PROJECT
 HAMILTON COUNTY, INDIANA



LEGEND

- INVESTIGATION AREA
- NWI WETLANDS**
- PALUSTRINE
- RIVERINE
- LACUSTRINE
- NHD LINE**
- CONNECTOR
- CANAL DITCH
- STREAM/RIVER
- STREAM/RIVER = INTERMITTENT
- STREAM/RIVER = PERENNIAL
- STREAM/RIVER = EPHEMERAL
- ARTIFICIAL PATH

RQAW

NWI & NHD MAP

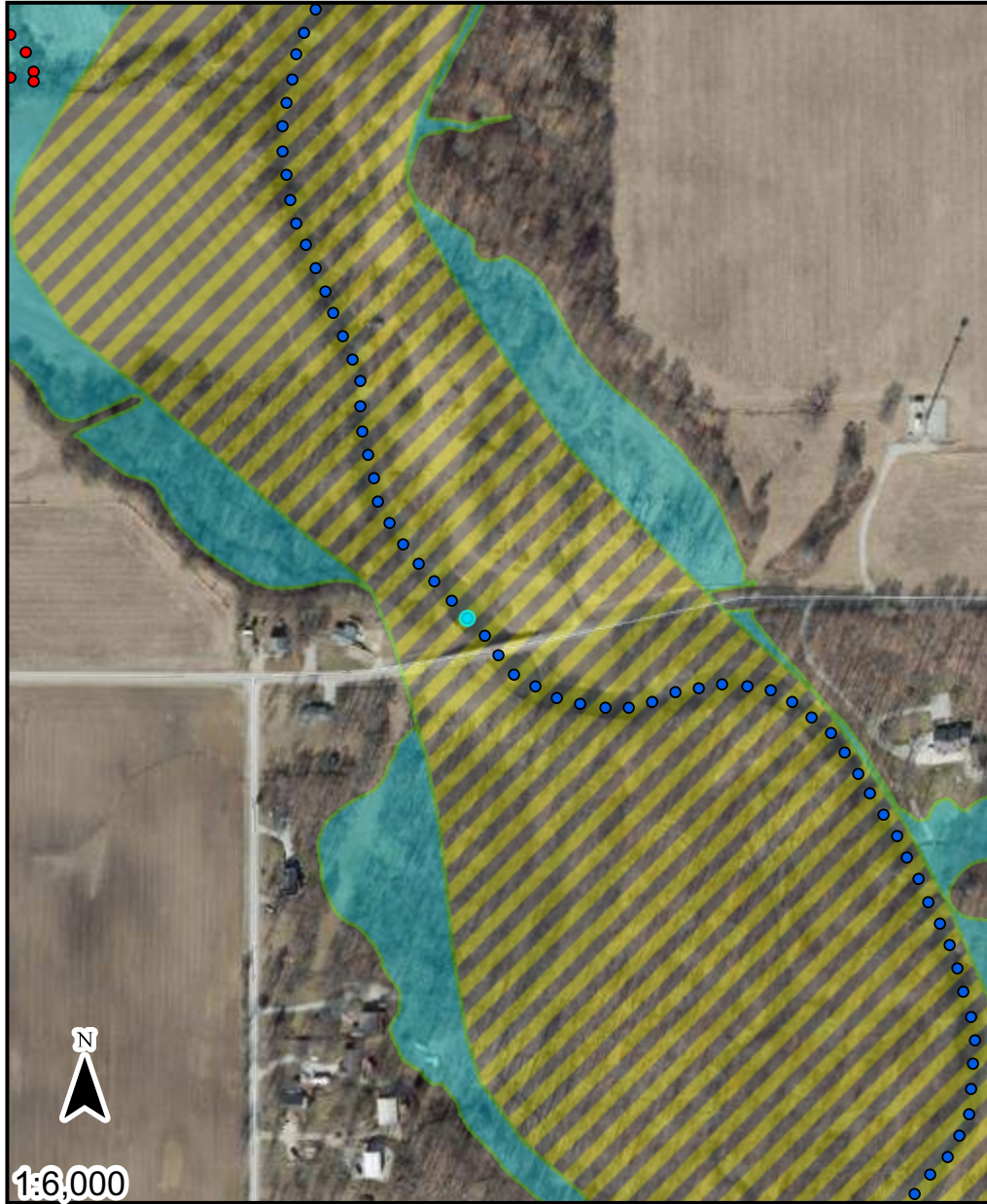
PAGE 3 OF 3

LOCATION: 281ST ST. FROM SR 19 TO SR 213
 DES. NO.: 2003031
 COUNTY: HAMILTON

Date: 11/08/2023

N

0 0.23 0.45 Mi
 0 1,250 2,500 Feet



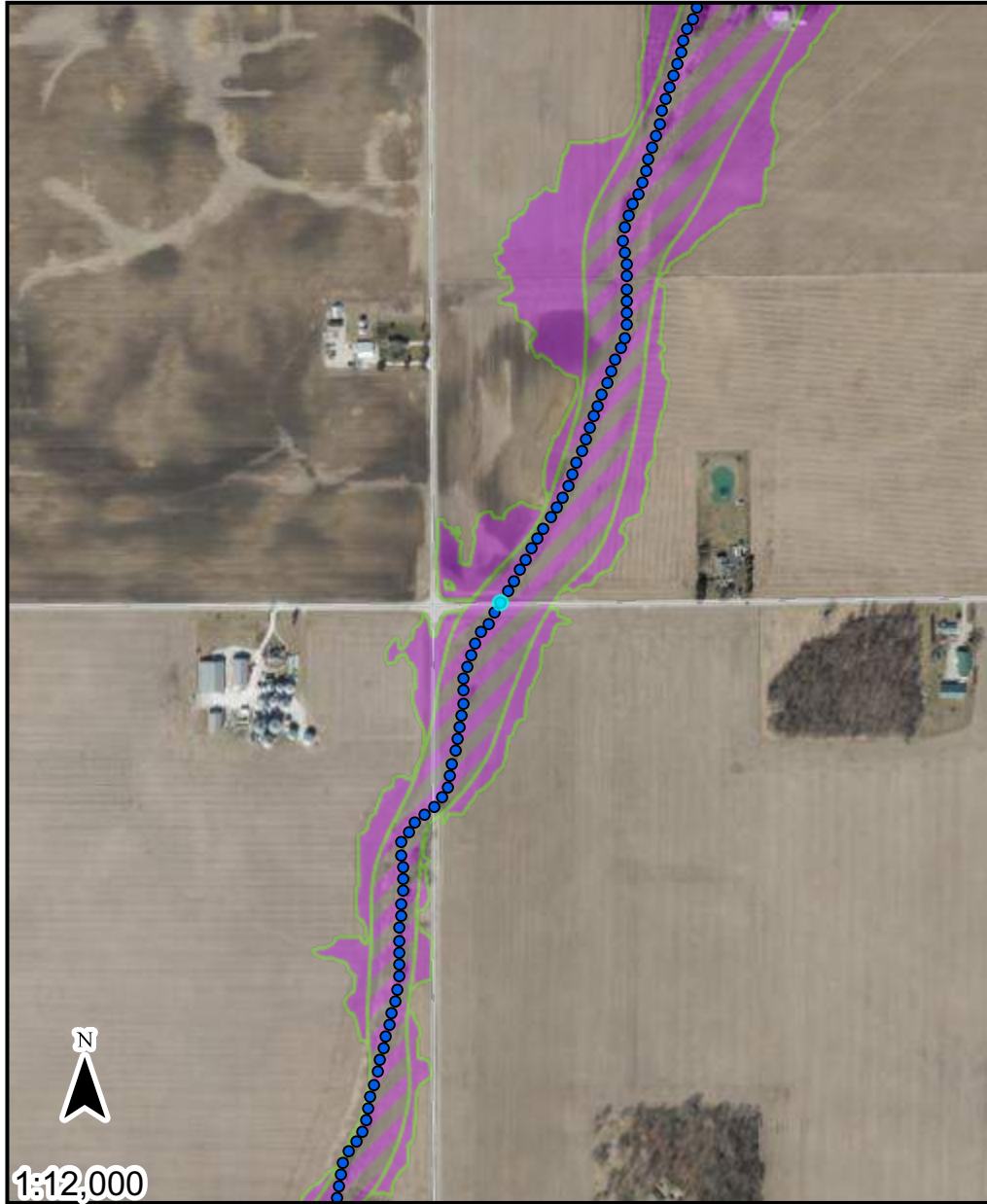
- Point of Interest
 - Base Flood Elevation Point
- VERSION**
- 1.0
 - 1.5
- FLD_ZONE, SOURCE_DNR, ZONE_SUBTY**
- DNR Detailed Floodway
 - FEMA Zone A
 - Not Mapped

Longitude: -86.01370933684994
 Latitude: 40.19797711074799

The information provided below is based on the point of interest shown in the map above.

County: Hamilton	Approximate Ground Elevation: 832.9 feet (NAVD88)
Stream Name: Cicero Creek	Base Flood Elevation: 837.1 Feet (NAVD88)
	Drainage Area: Not Available
Best Available Flood Hazard Zone: DNR DETAILED FLOODWAY	
National Flood Hazard Zone: Working on script	
Is a Flood Control Act permit from the DNR needed for this location? yes	
Is a local floodplain permit needed for this location? yes-	
Floodplain Administrator: No Floodplain Administrator Name Available	
Community Jurisdiction: Town Of Atlanta, ETJ	
Phone: No Phone Number Available	
Email: No Email Address Available	
US Army Corps of Engineers District: Louisville	

Date Generated: 11/21/2023



- Point of Interest
- Base Flood Elevation Point

VERSION

- 1.0

FLD_ZONE, SOURCE_DNR, ZONE_SUBTY

- DNR Approximate Floodway
- DNR Approximate Fringe
- Not Mapped

Long: -85.9759963878719

Lat: 40.19807106292316

The information provided below is based on the point of interest shown in the map above.

County: **Hamilton**

Approximate Ground Elevation: **841.6 feet (NAVD88)**

Stream Name:

Base Flood Elevation: **848.9 Feet (NAVD88)**

Weasel Creek

Drainage Area: **Not Available**

Best Available Flood Hazard Zone: **DNR Approximate Floodway**

National Flood Hazard Zone: **Working on script**

Is a Flood Control Act permit from the DNR needed for this location? **yes**

Is a local floodplain permit needed for this location? **yes-**

Floodplain Administrator: **CJ Taylor, Plan Commission Director**

Community Jurisdiction: **Hamilton County, ETJ**

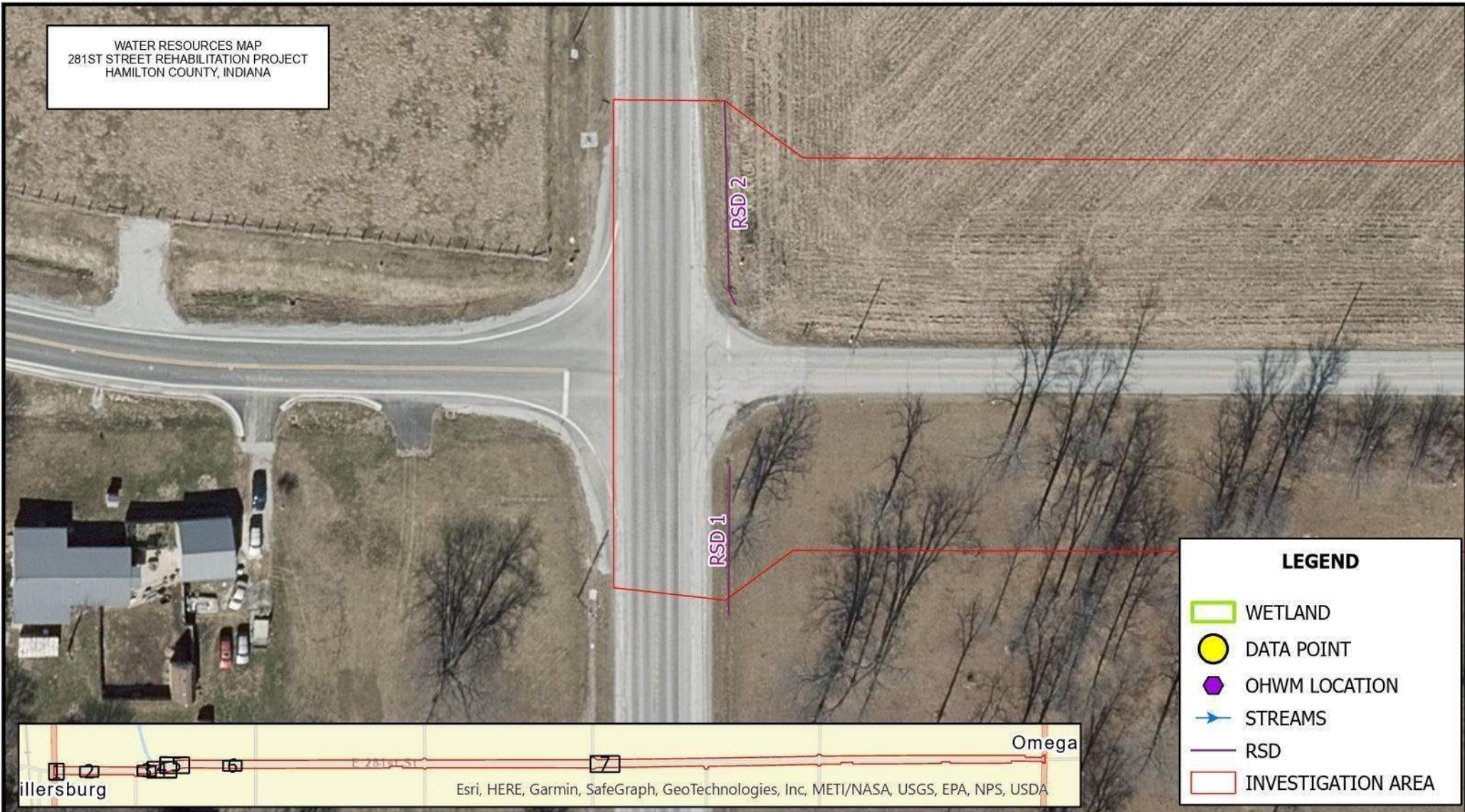
Phone: **(317) 776-8490**

Email: **CJ.Taylor@hamiltoncounty.in.gov**

US Army Corps of Engineers District: **Louisville**

Date Generated: 11/21/2023

WATER RESOURCES MAP
 281ST STREET REHABILITATION PROJECT
 HAMILTON COUNTY, INDIANA



LEGEND

- WETLAND
- DATA POINT
- ◆ OHWM LOCATION
- STREAMS
- RSD
- INVESTIGATION AREA

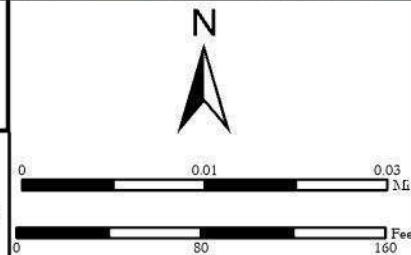


WATER RESOURCES MAP

PAGE 1 OF 7

LOCATION: 281ST ST. FROM SR 19 TO SR 213
 DES. NO.: 2003031
 COUNTY: HAMILTON


Date: 11/08/2023



WATER RESOURCES MAP
 281ST STREET REHABILITATION PROJECT
 HAMILTON COUNTY, INDIANA

A1
 Wetland A
 A2

LEGEND

-  WETLAND
-  DATA POINT
-  OHWM LOCATION
-  STREAMS
-  RSD
-  INVESTIGATION AREA

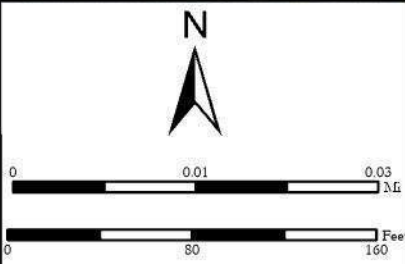


WATER RESOURCES MAP

PAGE 2 OF 7

LOCATION: 281ST ST. FROM SR 19 TO SR 213
 DES. NO.: 2003031
 COUNTY: HAMILTON

Date: 11/08/2023

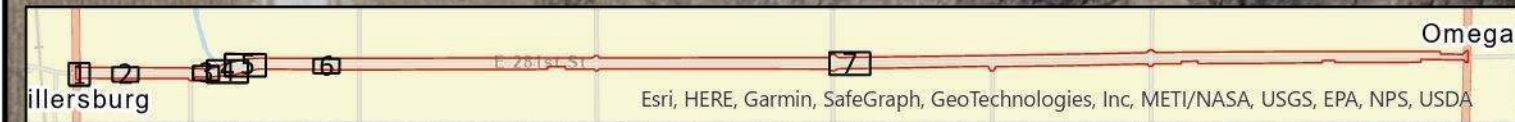


WATER RESOURCES MAP
281ST STREET REHABILITATION PROJECT
HAMILTON COUNTY, INDIANA



LEGEND

- WETLAND
- DATA POINT
- ⬠ OHWM LOCATION
- ➔ STREAMS
- RSD
- INVESTIGATION AREA

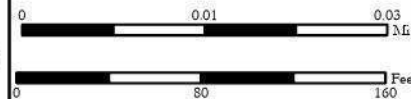


WATER RESOURCES MAP

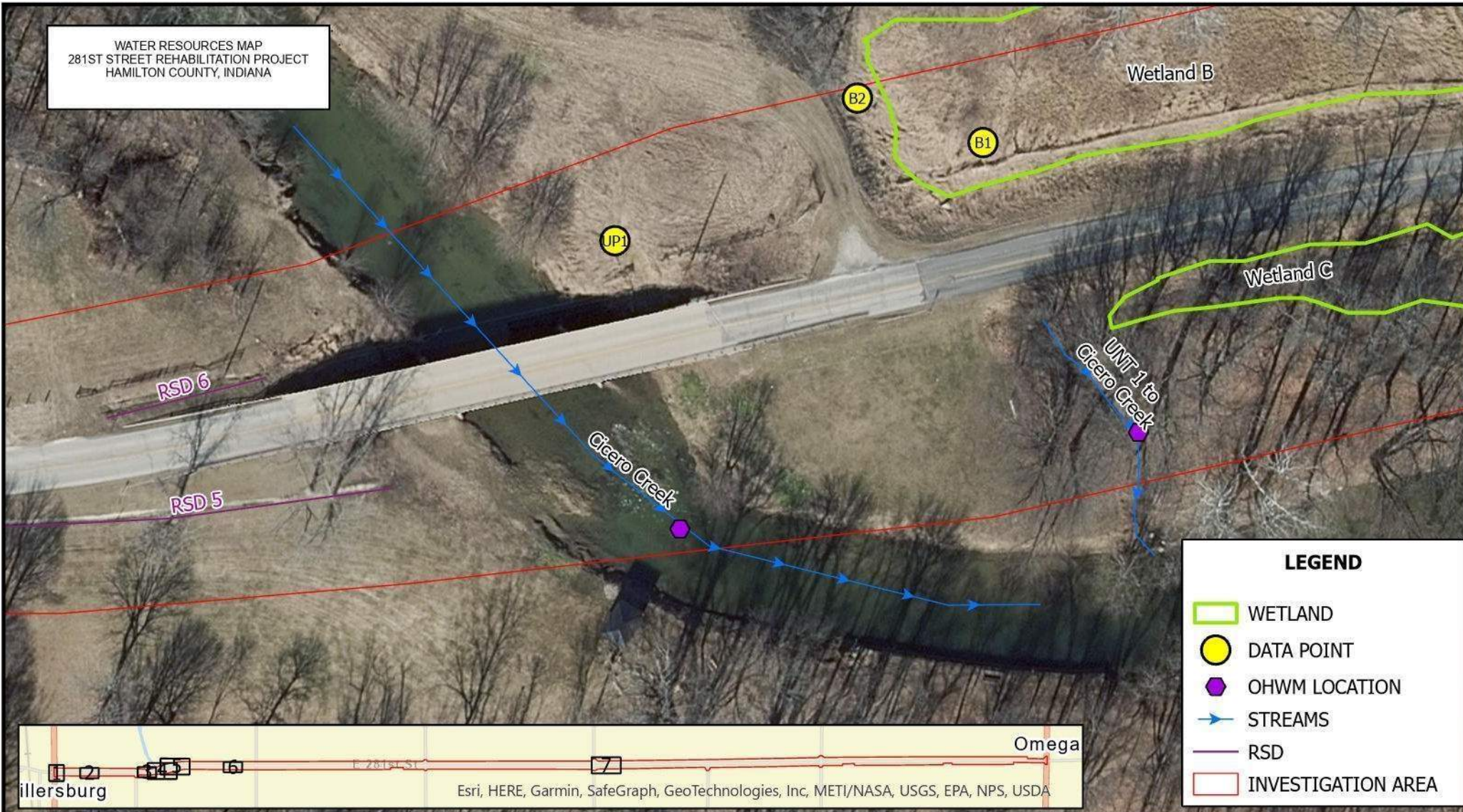
PAGE 3 OF 7

LOCATION: 281ST ST. FROM SR 19 TO SR 213
DES. NO.: 2003031
COUNTY: HAMILTON

Date: 11/08/2023



WATER RESOURCES MAP
281ST STREET REHABILITATION PROJECT
HAMILTON COUNTY, INDIANA



LEGEND

- WETLAND
- DATA POINT
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- STREAMS
- RSD
- INVESTIGATION AREA

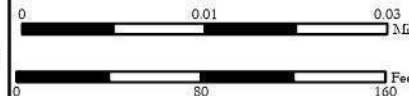


WATER RESOURCES MAP

PAGE 4 OF 7

LOCATION: 281ST ST. FROM SR 19 TO SR 213
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COUNTY: HAMILTON

Date: 11/08/2023



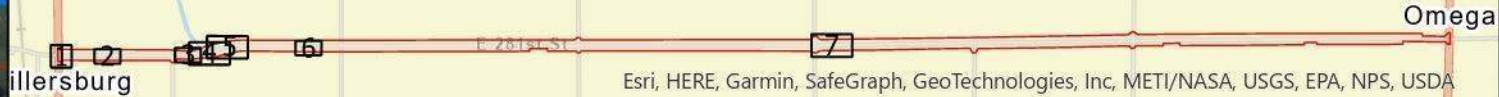
WATER RESOURCES MAP
281ST STREET REHABILITATION PROJECT
HAMILTON COUNTY, INDIANA

Wetland B extends
north outside of the this
boundary.



LEGEND

- WETLAND
- DATA POINT
- ⬠ OHWM LOCATION
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- RSD
- INVESTIGATION AREA

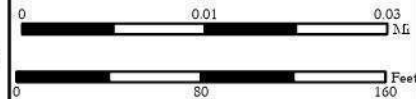


WATER RESOURCES MAP

LOCATION: 281ST ST. FROM SR 19 TO SR 213
DES. NO.: 2003031
COUNTY: HAMILTON

PAGE 5 OF 7





Date: 11/08/2023



WATER RESOURCES MAP
 281ST STREET REHABILITATION PROJECT
 HAMILTON COUNTY, INDIANA



LEGEND

-  WETLAND
-  DATA POINT
-  OHWM LOCATION
-  STREAMS
-  RSD
-  INVESTIGATION AREA

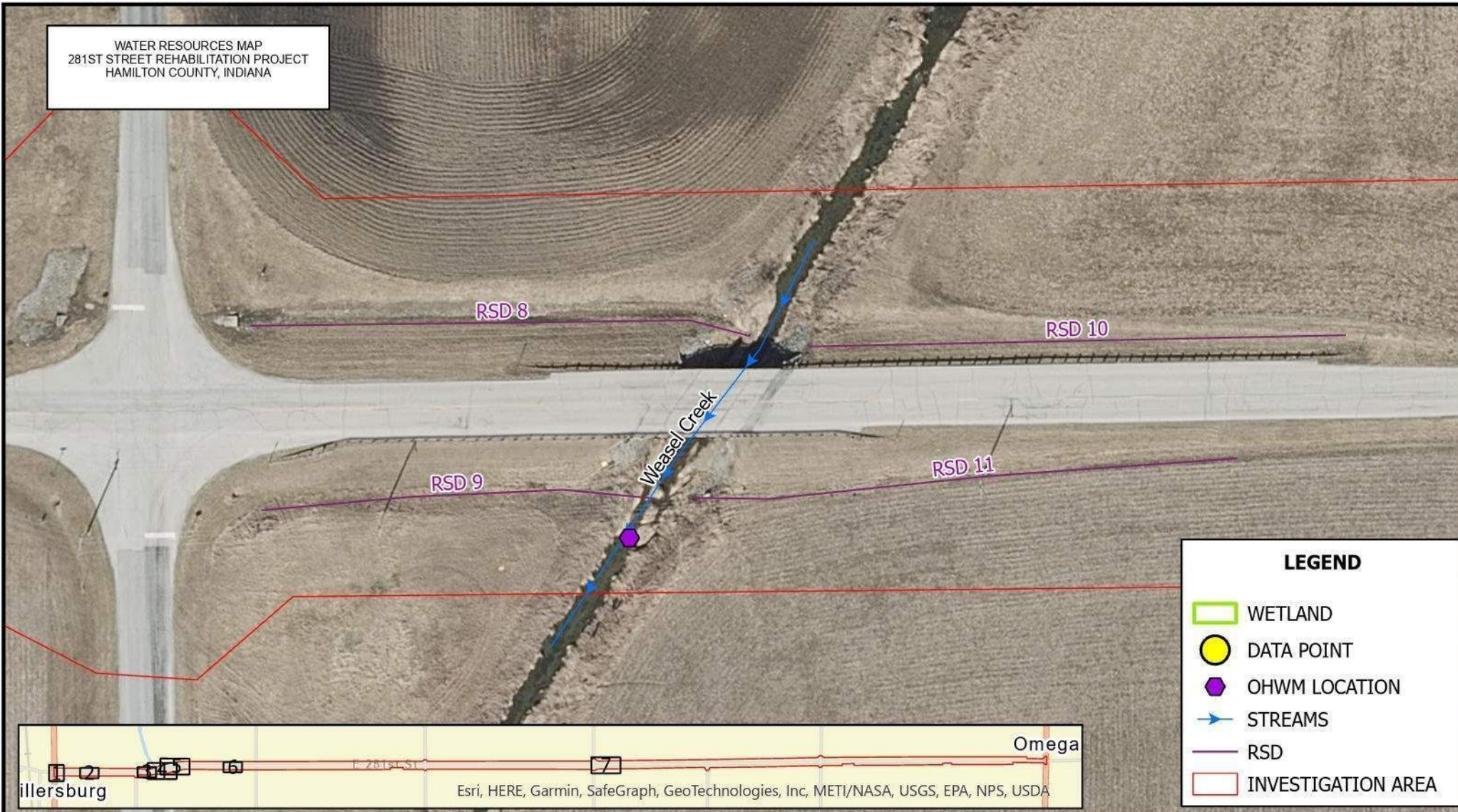
WATER RESOURCES MAP

PAGE 6 OF 7

LOCATION: 281ST ST. FROM SR 19 TO SR 213
 DES. NO.: 2003031
 COUNTY: HAMILTON

Date: 11/08/2023

WATER RESOURCES MAP
281ST STREET REHABILITATION PROJECT
HAMILTON COUNTY, INDIANA



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WATER RESOURCES MAP

PAGE 7 OF 7

LOCATION: 281ST ST. FROM SR 19 TO SR 213
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COUNTY: HAMILTON

Date: 11/08/2023

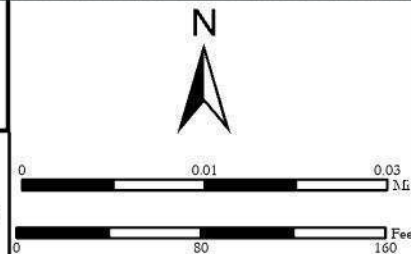


PHOTO LOCATION MAP
281ST STREET REHABILITATION PROJECT
HAMILTON COUNTY, INDIANA



PHOTO LOCATION MAP

LOCATION: 281ST ST. FROM SR 19 TO SR 213
DES. NO.: 2003031
COUNTY: HAMILTON

PAGE 1 OF 41

Date: 11/08/2023

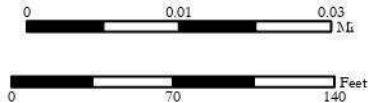
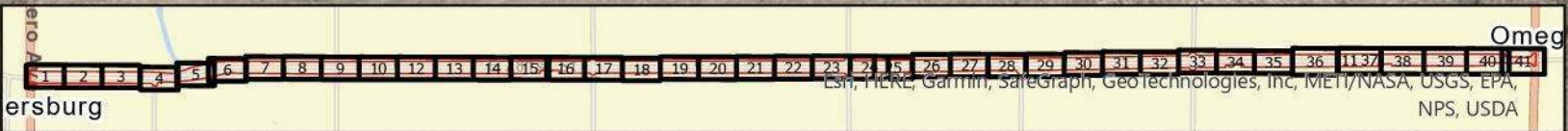


PHOTO LOCATION MAP
281ST STREET REHABILITATION PROJECT
HAMILTON COUNTY, INDIANA



LEGEND

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PHOTO LOCATION MAP

PAGE 2 OF 41

LOCATION: 281ST ST. FROM SR 19 TO SR 213
DES. NO.: 2003031
COUNTY: HAMILTON

Date: 11/08/2023

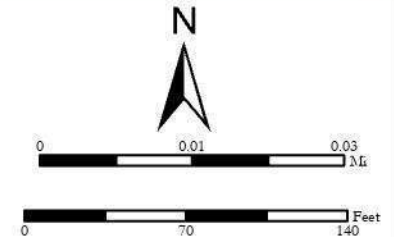


PHOTO LOCATION MAP
 281ST STREET REHABILITATION PROJECT
 HAMILTON COUNTY, INDIANA



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PHOTO LOCATION MAP

PAGE 3 OF 41

LOCATION: 281ST ST. FROM SR 19 TO SR 213
 DES. NO.: 2003031
 COUNTY: HAMILTON

Date: 11/08/2023

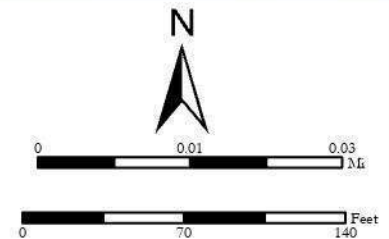
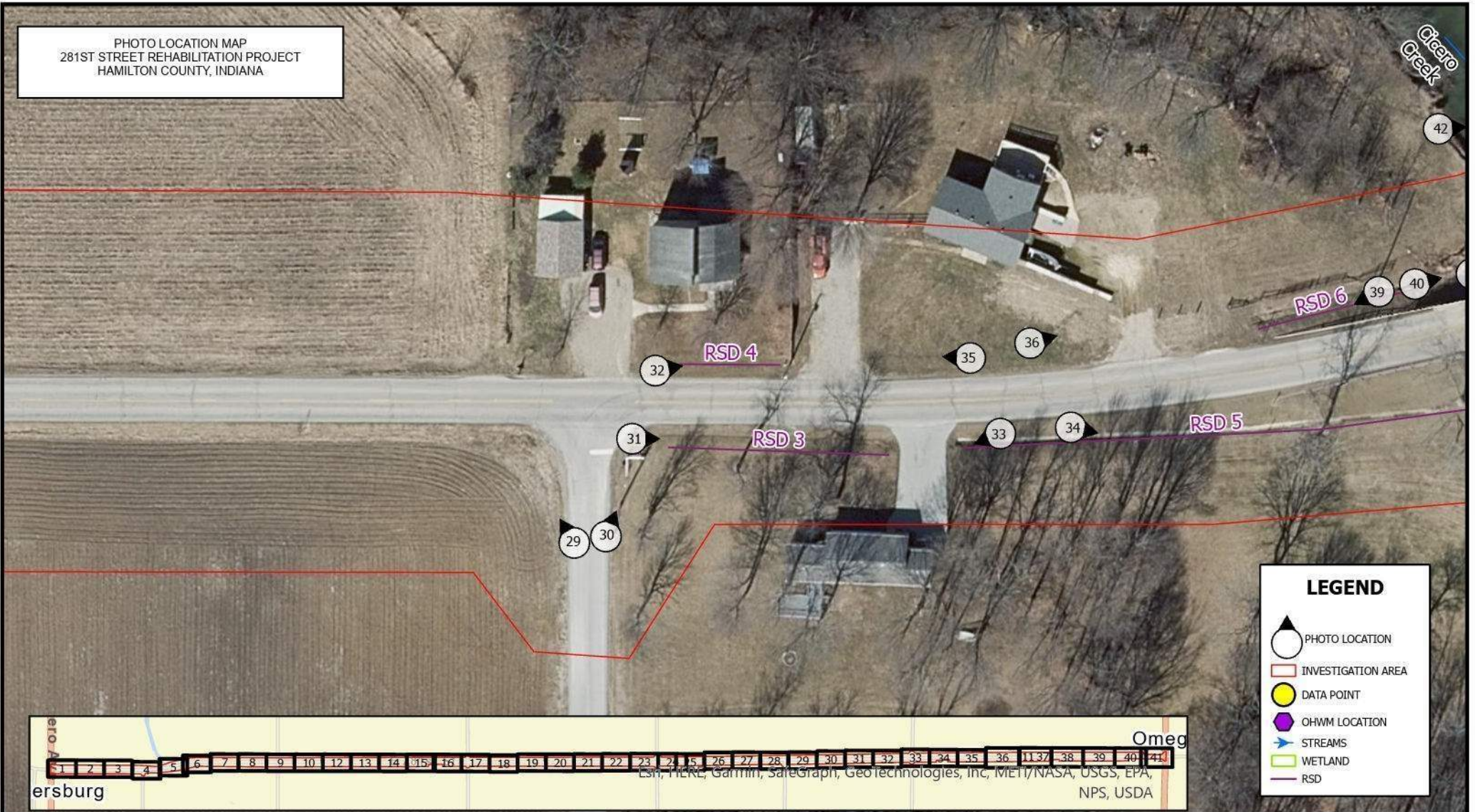


PHOTO LOCATION MAP
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 HAMILTON COUNTY, INDIANA



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PHOTO LOCATION MAP

PAGE 4 OF 41

LOCATION: 281ST ST. FROM SR 19 TO SR 213
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 COUNTY: HAMILTON

Date: 11/08/2023

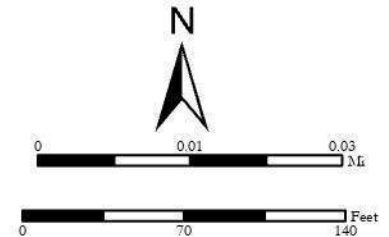
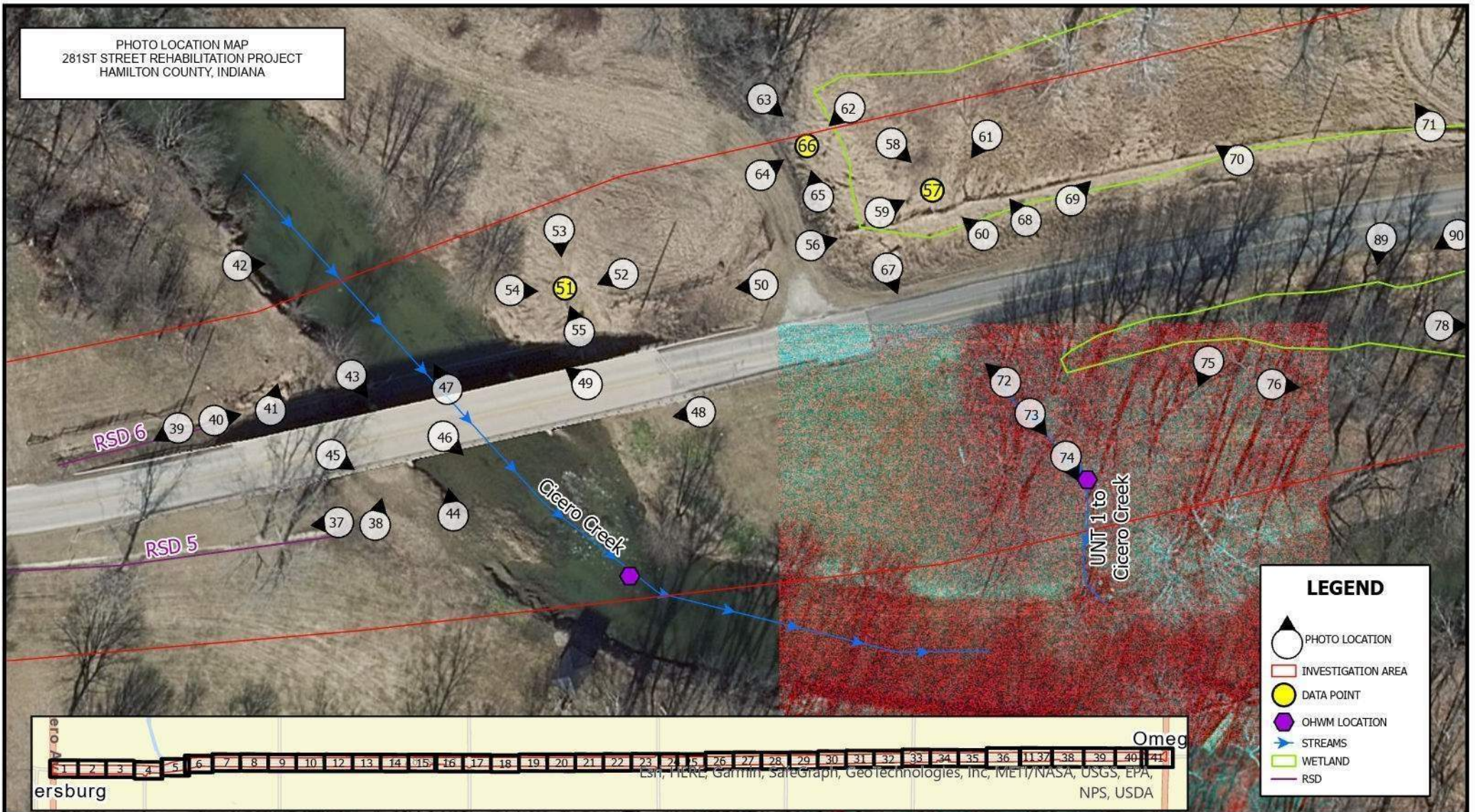
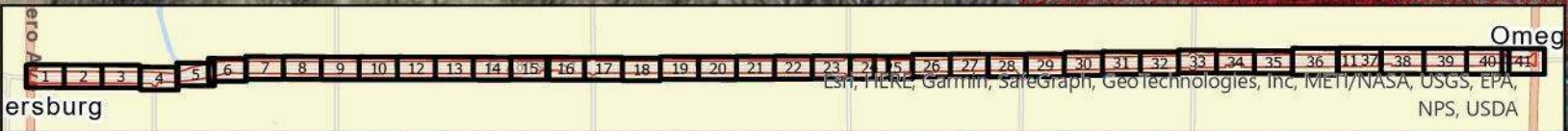


PHOTO LOCATION MAP
281ST STREET REHABILITATION PROJECT
HAMILTON COUNTY, INDIANA



LEGEND

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RQAW
DCCM

PHOTO LOCATION MAP

LOCATION: 281ST ST. FROM SR 19 TO SR 213
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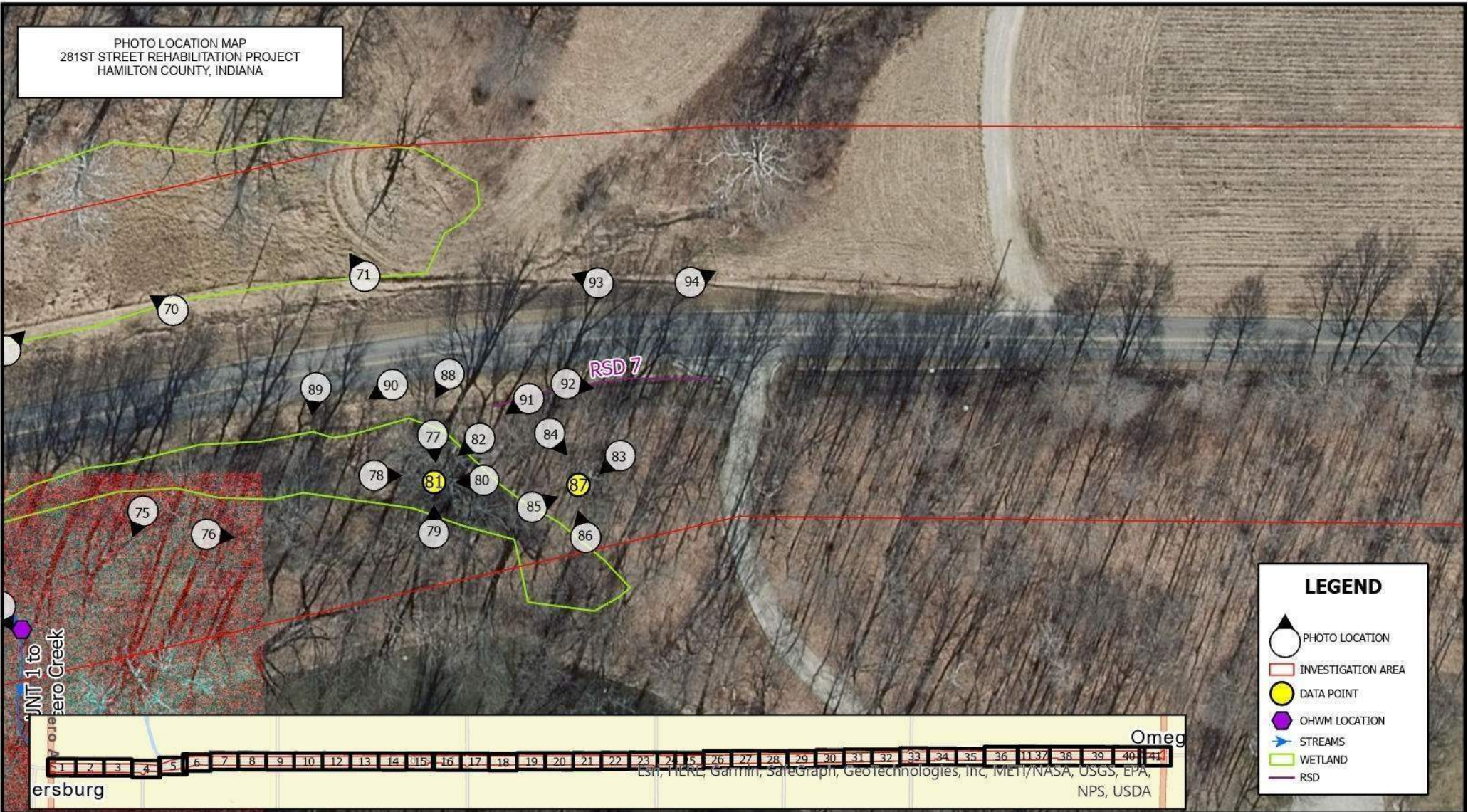
PAGE 5 OF 41

Date: 11/08/2023

North arrow pointing up.

Scale bars: 0 to 0.03 Meters and 0 to 140 Feet.

PHOTO LOCATION MAP
281ST STREET REHABILITATION PROJECT
HAMILTON COUNTY, INDIANA



LEGEND

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RQAW
DCCM

PHOTO LOCATION MAP

LOCATION: 281ST ST. FROM SR 19 TO SR 213
DES. NO.: 2003031
COUNTY: HAMILTON

PAGE 6 OF 41

Date: 11/08/2023

North arrow pointing up.

Scale bars: 0 to 0.03 Meters and 0 to 140 Feet.

PHOTO LOCATION MAP
 281ST STREET REHABILITATION PROJECT
 HAMILTON COUNTY, INDIANA



LEGEND

- PHOTO LOCATION
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- DATA POINT
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- WETLAND
- RSD

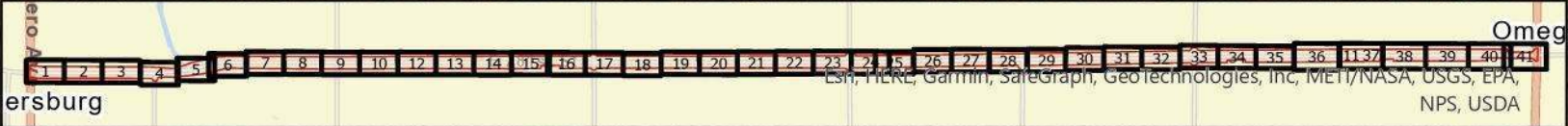


PHOTO LOCATION MAP

PAGE 7 OF 41

LOCATION: 281ST ST. FROM SR 19 TO SR 213
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 COUNTY: HAMILTON

Date: 11/08/2023

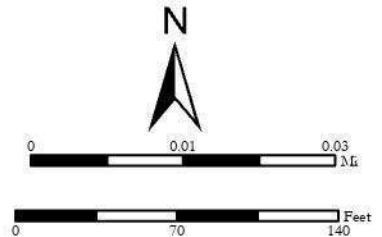


PHOTO LOCATION MAP
281ST STREET REHABILITATION PROJECT
HAMILTON COUNTY, INDIANA



PHOTO LOCATION MAP

PAGE 8 OF 41

LOCATION: 281ST ST. FROM SR 19 TO SR 213
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COUNTY: HAMILTON

Date: 11/08/2023

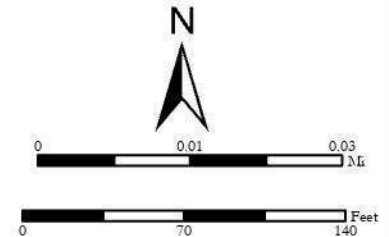
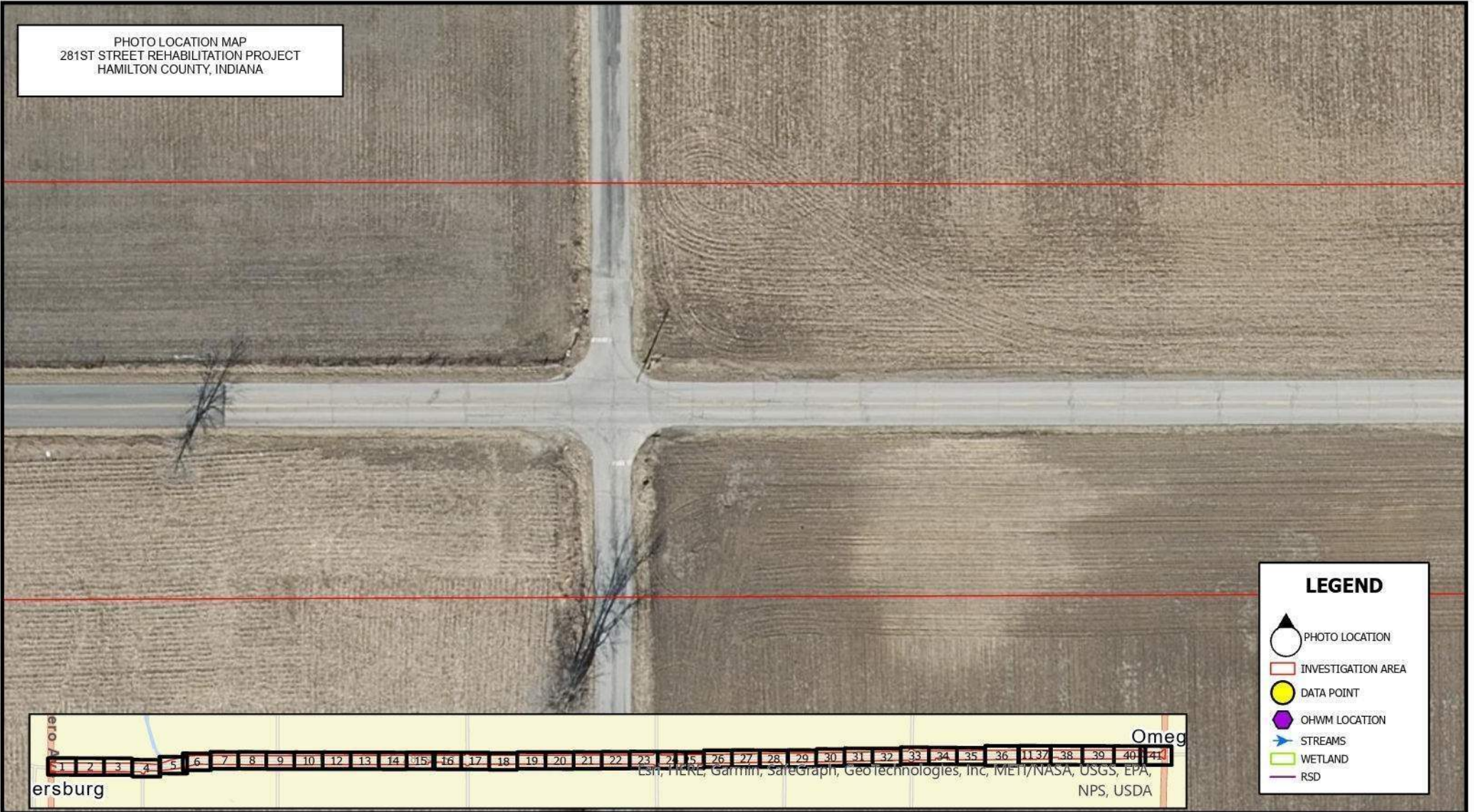


PHOTO LOCATION MAP
 281ST STREET REHABILITATION PROJECT
 HAMILTON COUNTY, INDIANA



LEGEND

- PHOTO LOCATION
- INVESTIGATION AREA
- DATA POINT
- OHWM LOCATION
- STREAMS
- WETLAND
- RSD

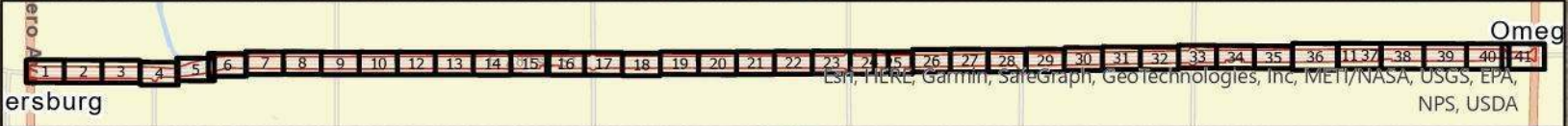


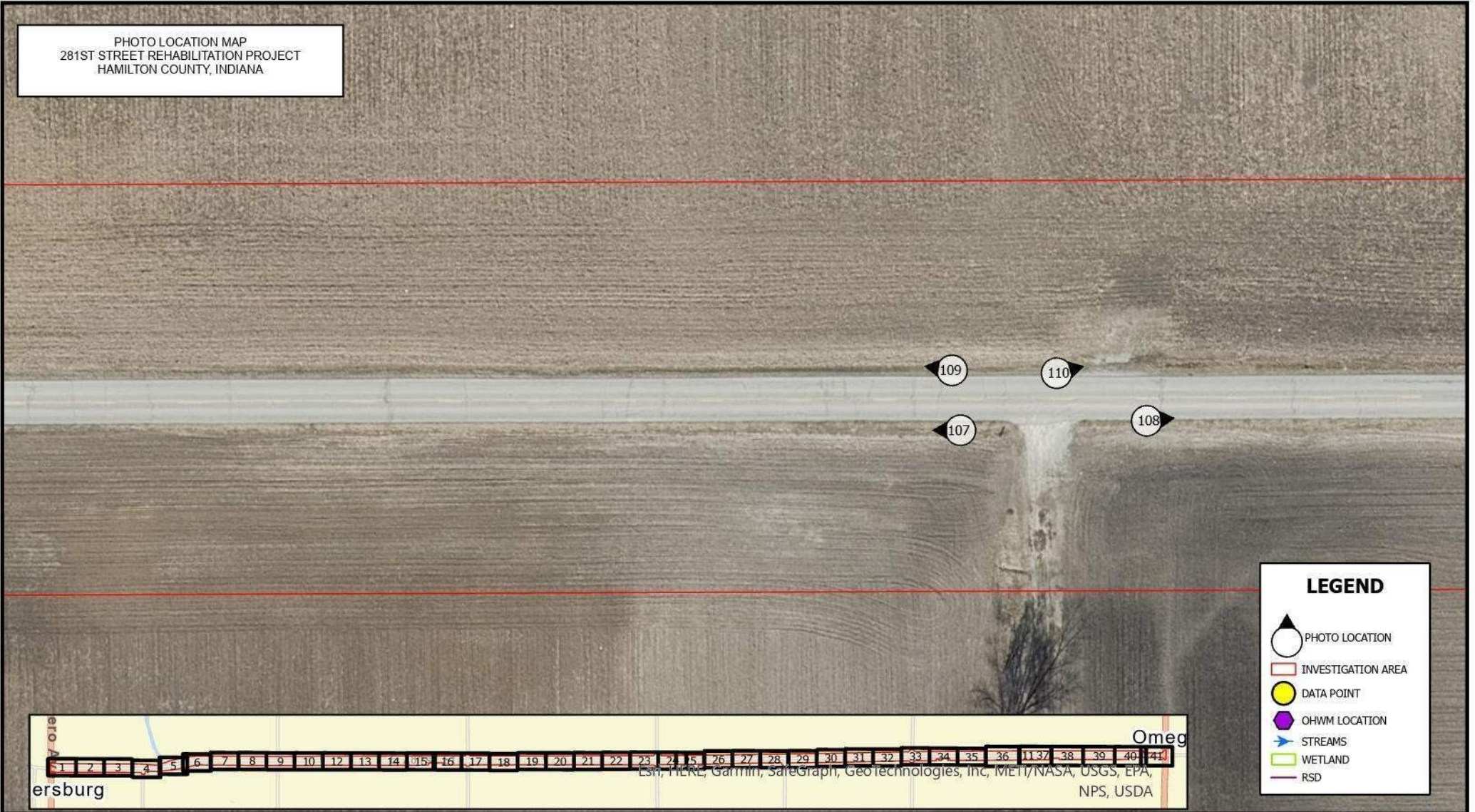
PHOTO LOCATION MAP

LOCATION: 281ST ST. FROM SR 19 TO SR 213
 DES. NO.: 2003031
 COUNTY: HAMILTON

PAGE 9 OF 41

Date: 11/08/2023

PHOTO LOCATION MAP
 281ST STREET REHABILITATION PROJECT
 HAMILTON COUNTY, INDIANA



LEGEND

- PHOTO LOCATION
- INVESTIGATION AREA
- DATA POINT
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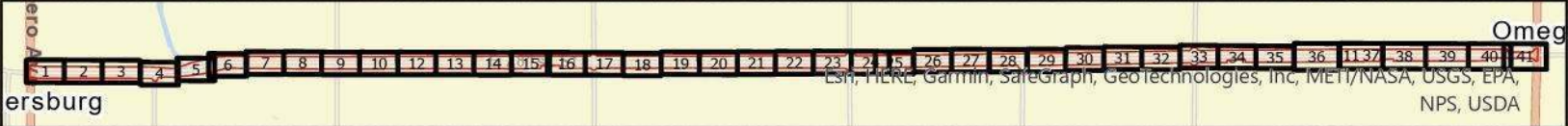


PHOTO LOCATION MAP

LOCATION: 281ST ST. FROM SR 19 TO SR 213
 DES. NO.: 2003031
 COUNTY: HAMILTON

PAGE 10 OF 41

Date: 11/08/2023

PHOTO LOCATION MAP
 281ST STREET REHABILITATION PROJECT
 HAMILTON COUNTY, INDIANA

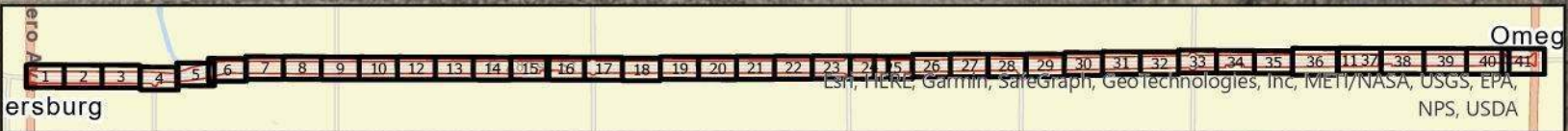
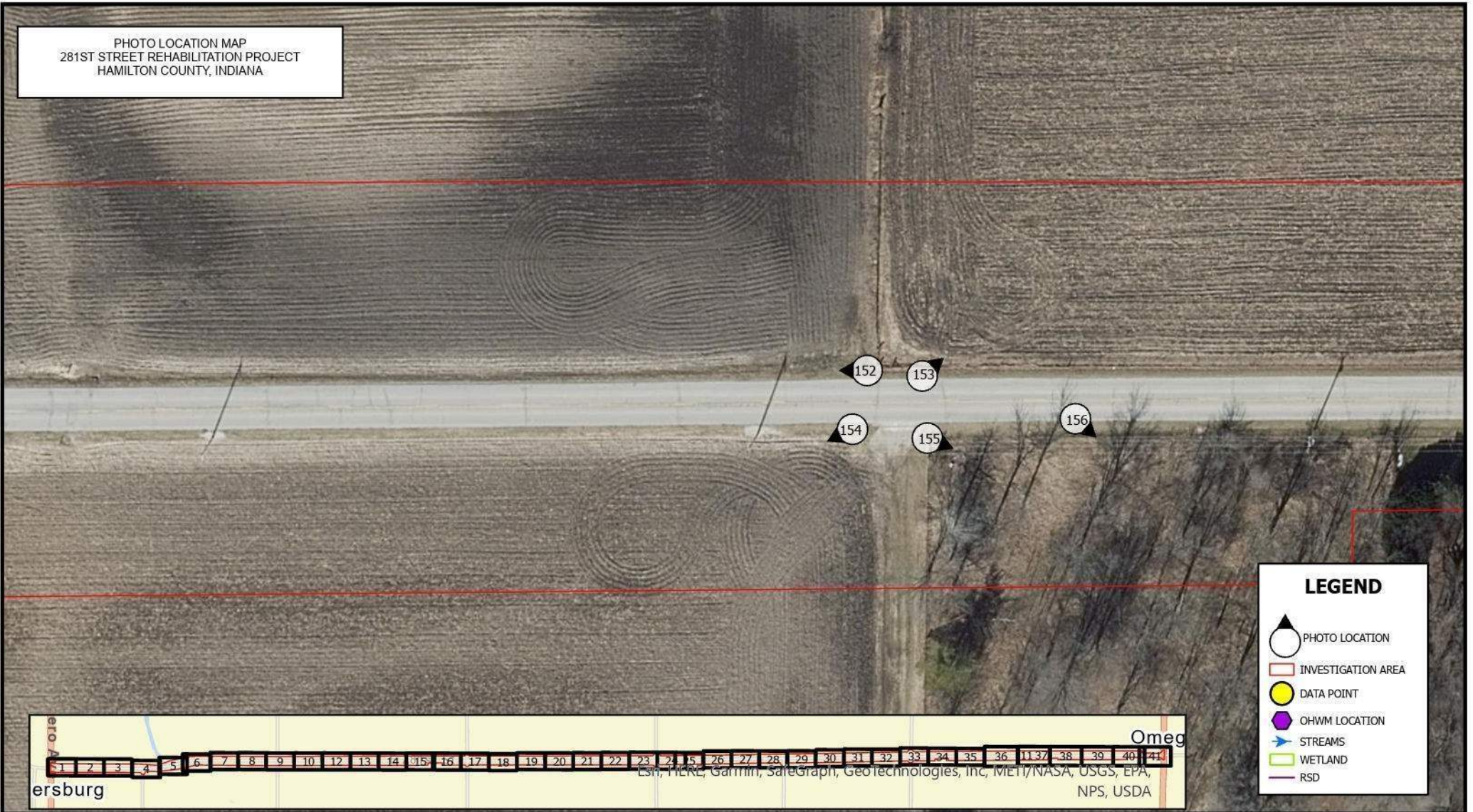


PHOTO LOCATION MAP

PAGE 11 OF 41

LOCATION: 281ST ST. FROM SR 19 TO SR 213
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 COUNTY: HAMILTON

Date: 11/08/2023

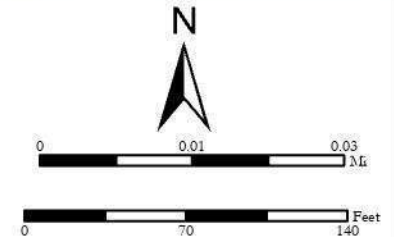
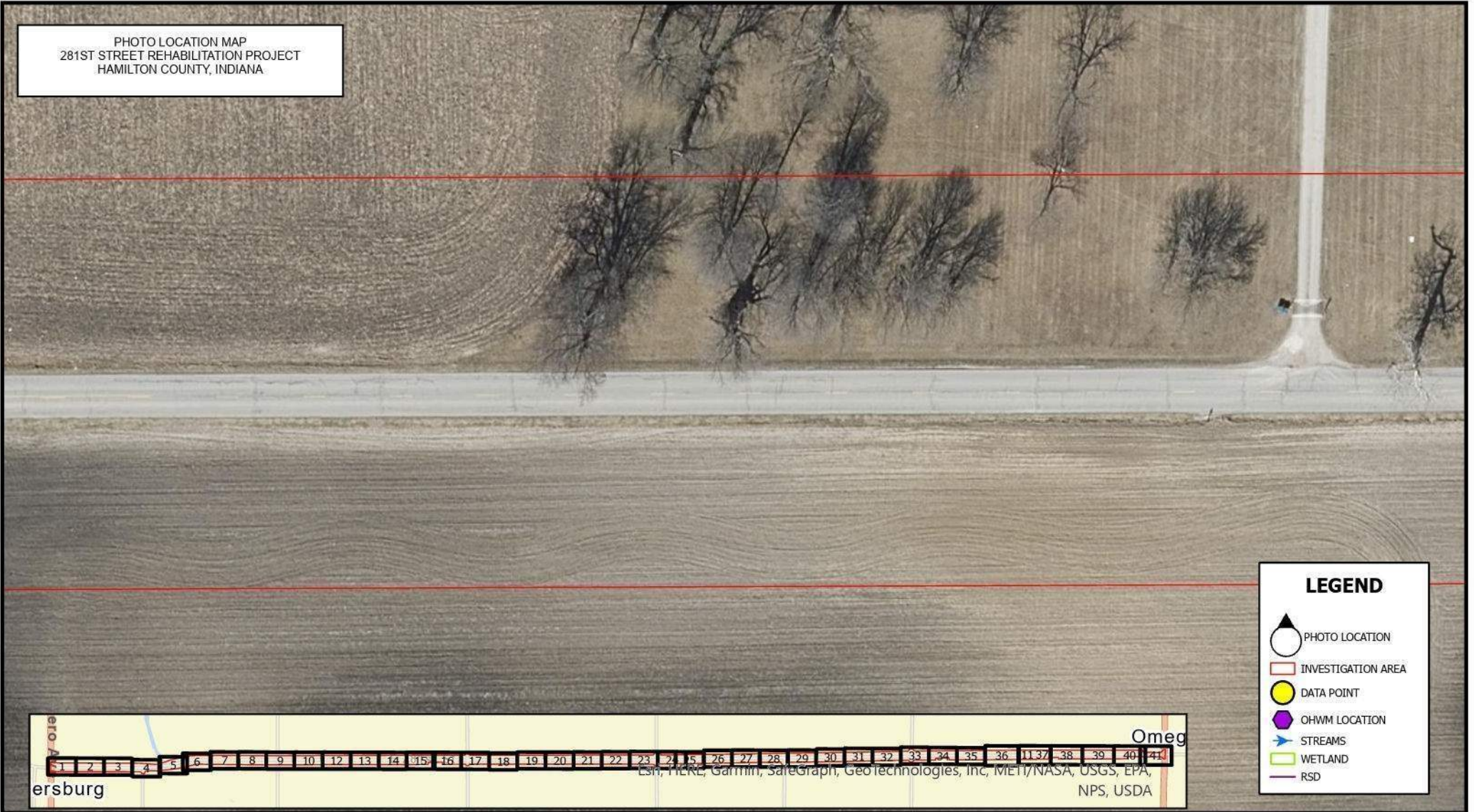


PHOTO LOCATION MAP
 281ST STREET REHABILITATION PROJECT
 HAMILTON COUNTY, INDIANA



LEGEND

- PHOTO LOCATION
- INVESTIGATION AREA
- DATA POINT
- OHWM LOCATION
- STREAMS
- WETLAND
- RSD

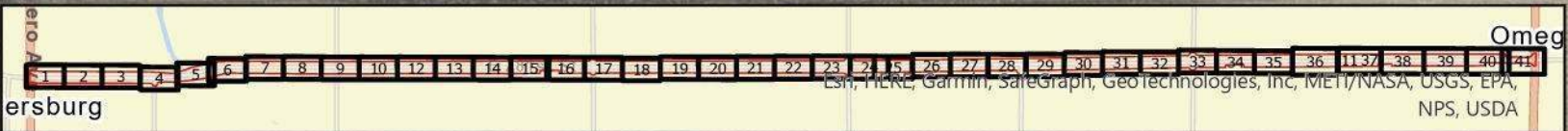


PHOTO LOCATION MAP

LOCATION: 281ST ST. FROM SR 19 TO SR 213
 DES. NO.: 2003031
 COUNTY: HAMILTON

PAGE 12 OF 41

Date: 11/08/2023

PHOTO LOCATION MAP
 281ST STREET REHABILITATION PROJECT
 HAMILTON COUNTY, INDIANA



LEGEND

- PHOTO LOCATION
- INVESTIGATION AREA
- DATA POINT
- OHWM LOCATION
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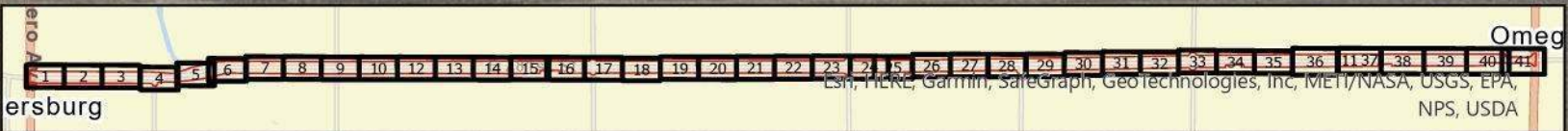


PHOTO LOCATION MAP

LOCATION: 281ST ST. FROM SR 19 TO SR 213
 DES. NO.: 2003031
 COUNTY: HAMILTON

PAGE 13 OF 41

Date: 11/08/2023

N

0 0.01 0.03 Miles

0 70 140 Feet

PHOTO LOCATION MAP
 281ST STREET REHABILITATION PROJECT
 HAMILTON COUNTY, INDIANA



LEGEND

-  PHOTO LOCATION
-  INVESTIGATION AREA
-  DATA POINT
-  OHWM LOCATION
-  STREAMS
-  WETLAND
-  RSD

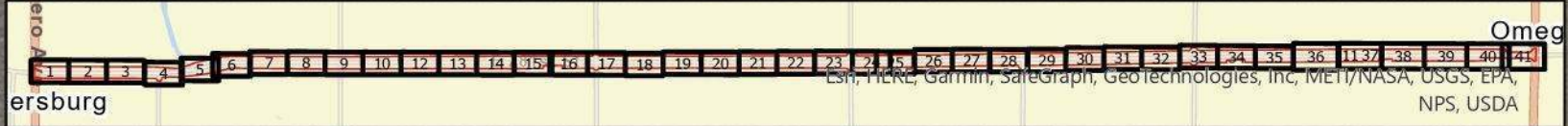


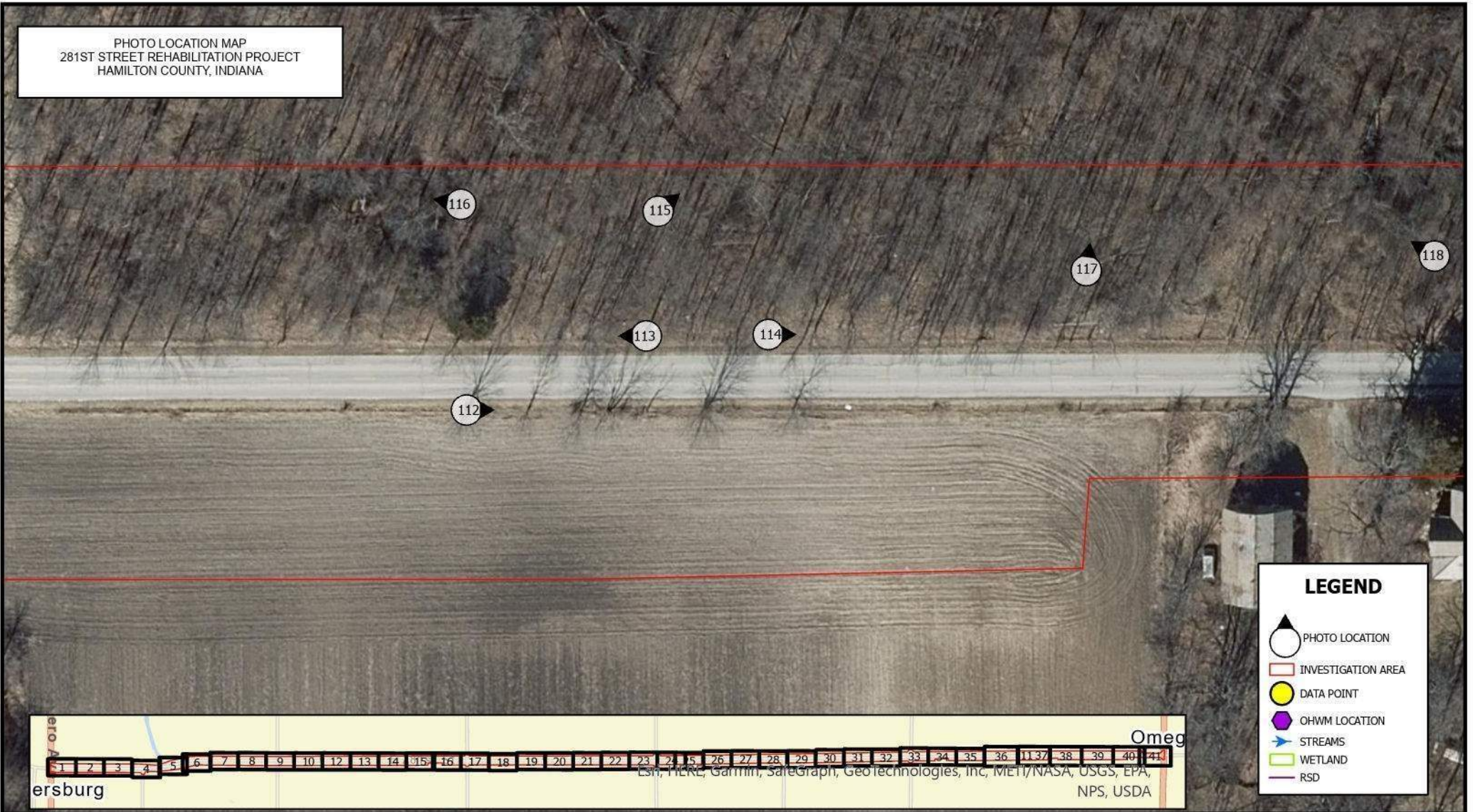
PHOTO LOCATION MAP

LOCATION: 281ST ST. FROM SR 19 TO SR 213
 DES. NO.: 2003031
 COUNTY: HAMILTON

PAGE 14 OF 41

Date: 11/08/2023

PHOTO LOCATION MAP
 281ST STREET REHABILITATION PROJECT
 HAMILTON COUNTY, INDIANA



LEGEND

- PHOTO LOCATION
- INVESTIGATION AREA
- DATA POINT
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- WETLAND
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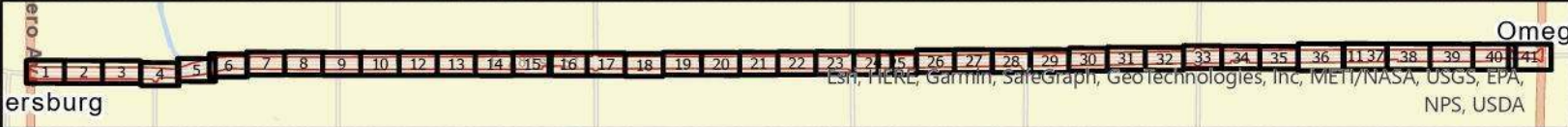


PHOTO LOCATION MAP

LOCATION: 281ST ST. FROM SR 19 TO SR 213
 DES. NO.: 2003031
 COUNTY: HAMILTON

PAGE 15 OF 41

Date: 11/08/2023

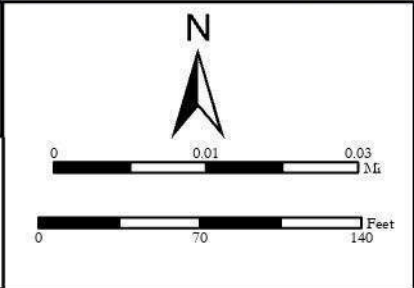


PHOTO LOCATION MAP
 281ST STREET REHABILITATION PROJECT
 HAMILTON COUNTY, INDIANA



LEGEND

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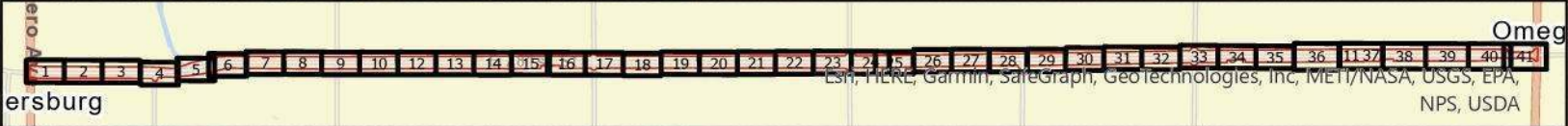


PHOTO LOCATION MAP

LOCATION: 281ST ST. FROM SR 19 TO SR 213
 DES. NO.: 2003031
 COUNTY: HAMILTON

PAGE 16 OF 41

Date: 11/08/2023

PHOTO LOCATION MAP
281ST STREET REHABILITATION PROJECT
HAMILTON COUNTY, INDIANA



LEGEND

- PHOTO LOCATION
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- RSD



Esri, HERE, Garmin, SafeGraph, Geotechnologies, Inc., IGN/NASA, USGS, EPA, NPS, USDA



PHOTO LOCATION MAP

PAGE 17 OF 41

LOCATION: 281ST ST. FROM SR 19 TO SR 213
DES. NO.: 2003031
COUNTY: HAMILTON

Date: 11/08/2023

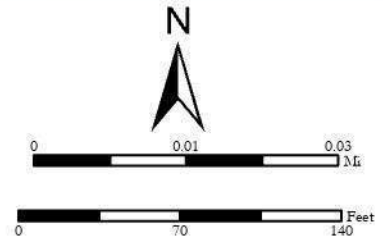


PHOTO LOCATION MAP
 281ST STREET REHABILITATION PROJECT
 HAMILTON COUNTY, INDIANA



LEGEND

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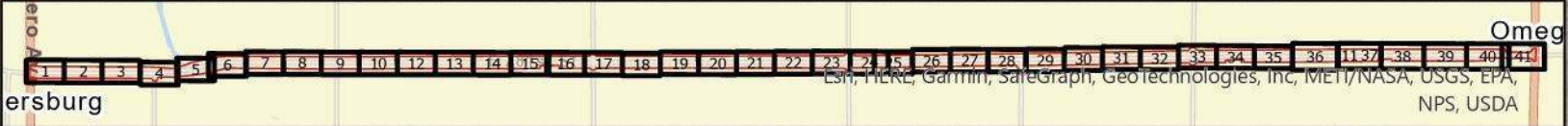


PHOTO LOCATION MAP

LOCATION: 281ST ST. FROM SR 19 TO SR 213
 DES. NO.: 2003031
 COUNTY: HAMILTON

PAGE 18 OF 41

Date: 11/08/2023

PHOTO LOCATION MAP
 281ST STREET REHABILITATION PROJECT
 HAMILTON COUNTY, INDIANA



LEGEND

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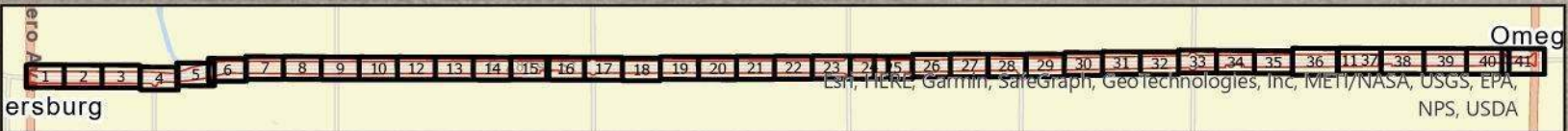


PHOTO LOCATION MAP

LOCATION: 281ST ST. FROM SR 19 TO SR 213
 DES. NO.: 2003031
 COUNTY: HAMILTON

PAGE 19 OF 41

Date: 11/08/2023

PHOTO LOCATION MAP
 281ST STREET REHABILITATION PROJECT
 HAMILTON COUNTY, INDIANA



LEGEND

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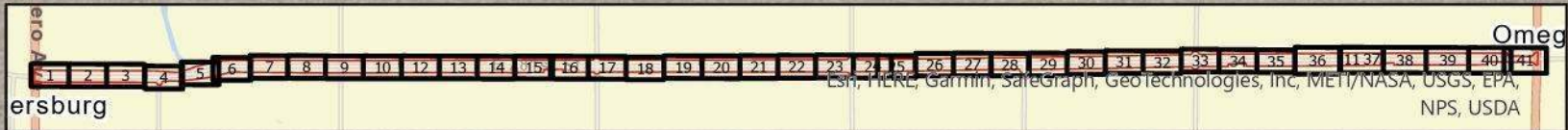


PHOTO LOCATION MAP

LOCATION: 281ST ST. FROM SR 19 TO SR 213
 DES. NO.: 2003031
 COUNTY: HAMILTON

PAGE 20 OF 41

Date: 11/08/2023

PHOTO LOCATION MAP
 281ST STREET REHABILITATION PROJECT
 HAMILTON COUNTY, INDIANA



LEGEND

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- OHWM LOCATION
- STREAMS
- WETLAND
- RSD

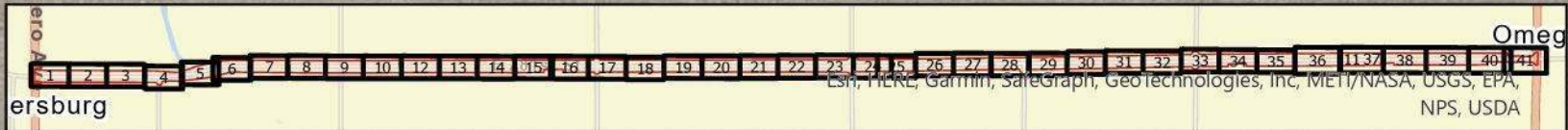


PHOTO LOCATION MAP

LOCATION: 281ST ST. FROM SR 19 TO SR 213
 DES. NO.: 2003031
 COUNTY: HAMILTON

PAGE 21 OF 41

Date: 11/08/2023

PHOTO LOCATION MAP
 281ST STREET REHABILITATION PROJECT
 HAMILTON COUNTY, INDIANA



LEGEND

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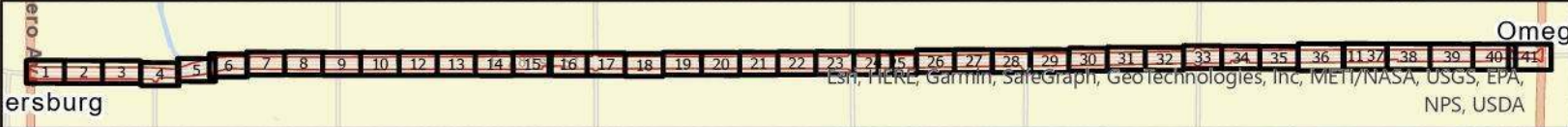


PHOTO LOCATION MAP

LOCATION: 281ST ST. FROM SR 19 TO SR 213
 DES. NO.: 2003031
 COUNTY: HAMILTON

PAGE 22 OF 41

Date: 11/08/2023

PHOTO LOCATION MAP
 281ST STREET REHABILITATION PROJECT
 HAMILTON COUNTY, INDIANA



LEGEND

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- INVESTIGATION AREA
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PHOTO LOCATION MAP

PAGE 23 OF 41

LOCATION: 281ST ST. FROM SR 19 TO SR 213
 DES. NO.: 2003031
 COUNTY: HAMILTON

Date: 11/08/2023

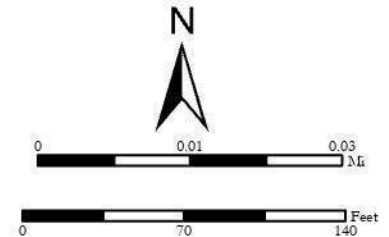
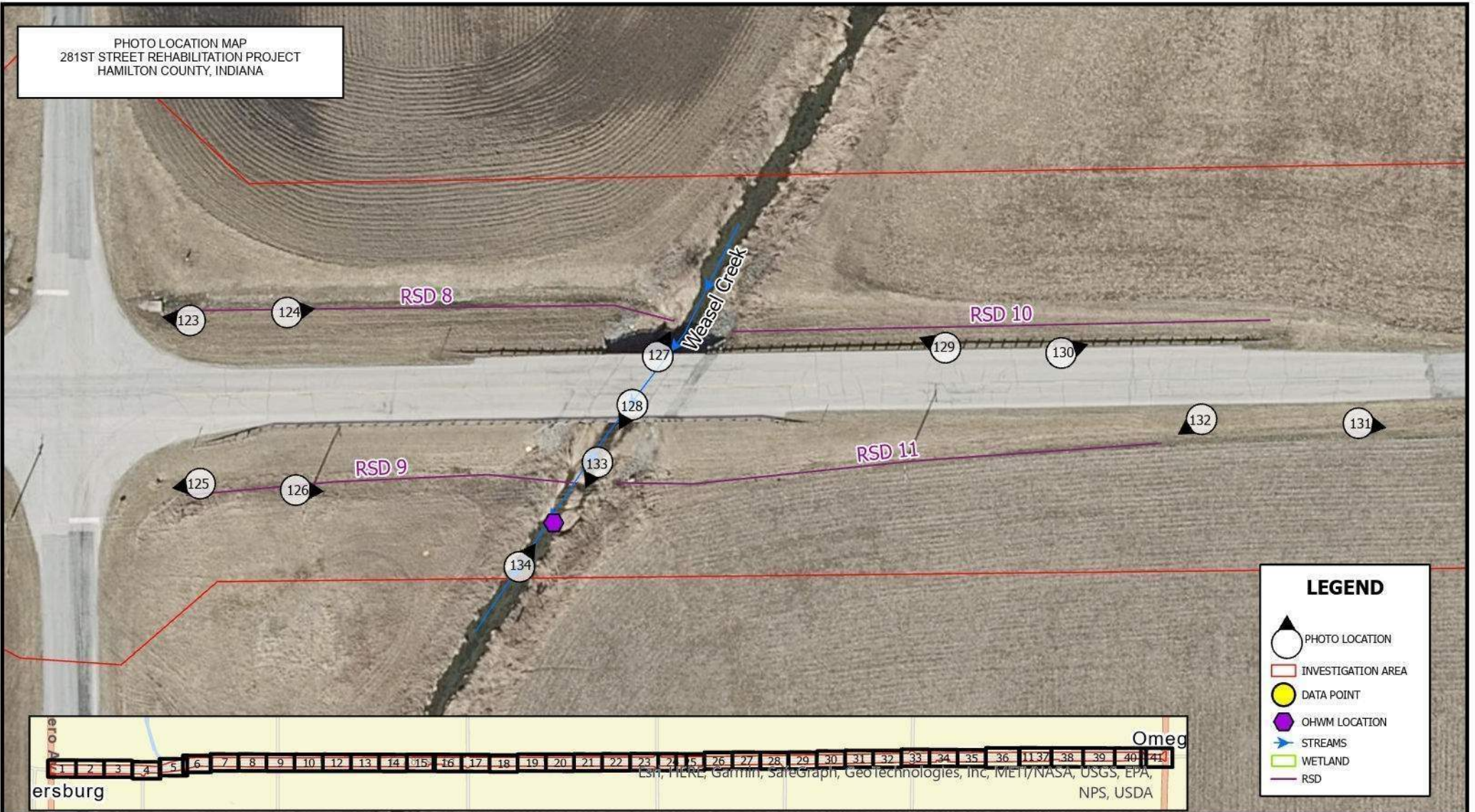


PHOTO LOCATION MAP
281ST STREET REHABILITATION PROJECT
HAMILTON COUNTY, INDIANA



LEGEND

- PHOTO LOCATION
- INVESTIGATION AREA
- DATA POINT
- OHWM LOCATION
- STREAMS
- WETLAND
- RSD



PHOTO LOCATION MAP

PAGE 24 OF 41

LOCATION: 281ST ST. FROM SR 19 TO SR 213
DES. NO.: 2003031
COUNTY: HAMILTON

Date: 11/08/2023

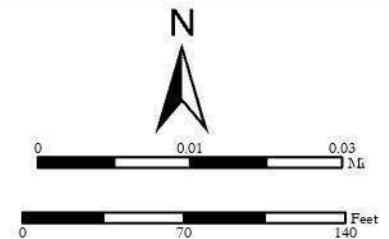


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 281ST STREET REHABILITATION PROJECT
 HAMILTON COUNTY, INDIANA

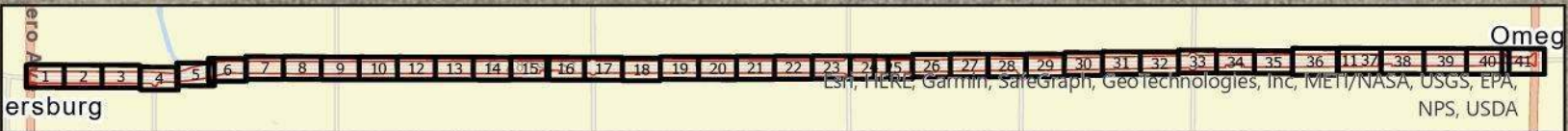
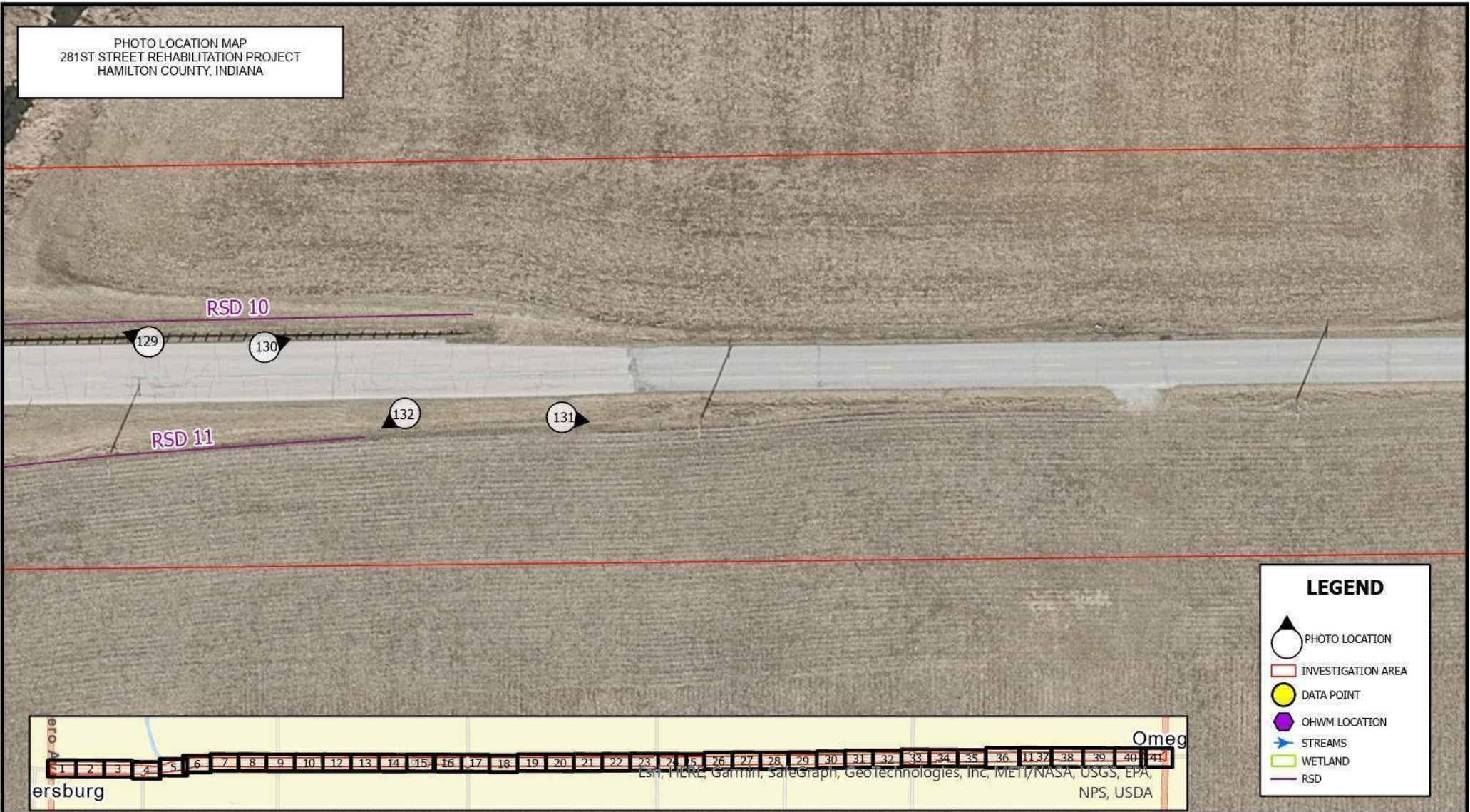


PHOTO LOCATION MAP

PAGE 25 OF 41

LOCATION: 281ST ST. FROM SR 19 TO SR 213
 DES. NO.: 2003031
 COUNTY: HAMILTON

Date: 11/08/2023

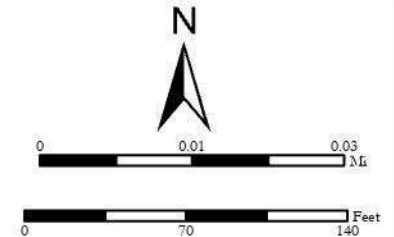
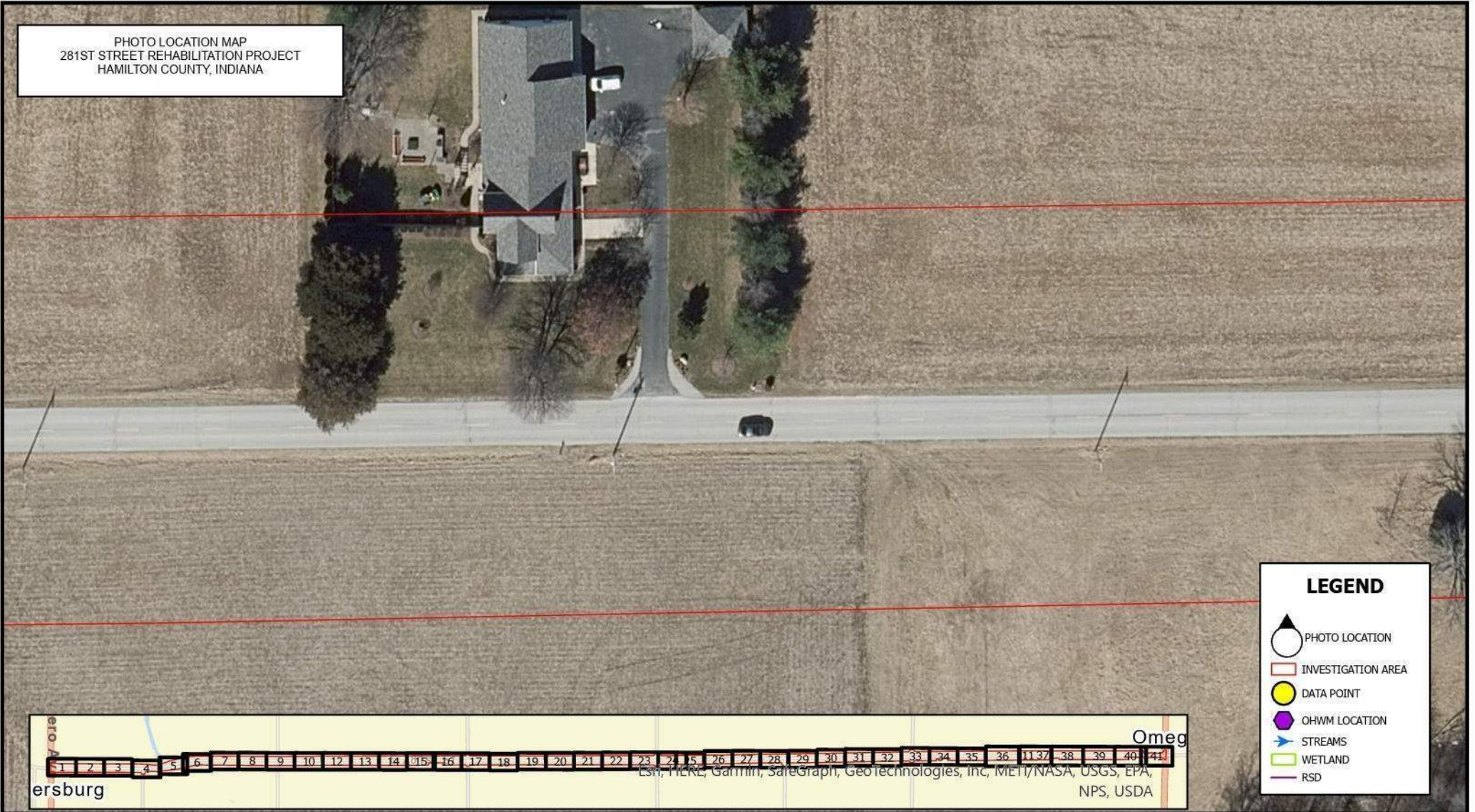


PHOTO LOCATION MAP
 281ST STREET REHABILITATION PROJECT
 HAMILTON COUNTY, INDIANA



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-  DATA POINT
-  OHWM LOCATION
-  STREAMS
-  WETLAND
-  RSD

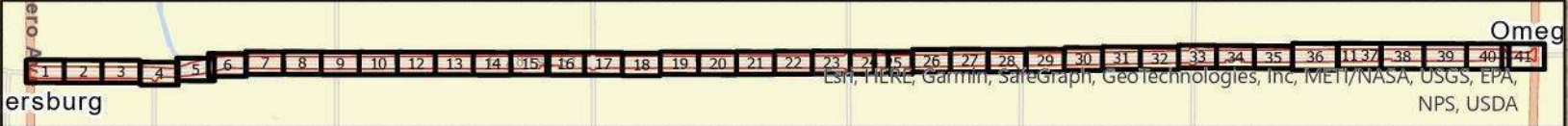


PHOTO LOCATION MAP

LOCATION: 281ST ST. FROM SR 19 TO SR 213
 DES. NO.: 2003031
 COUNTY: HAMILTON

PAGE 26 OF 41

Date: 11/08/2023

PHOTO LOCATION MAP
 281ST STREET REHABILITATION PROJECT
 HAMILTON COUNTY, INDIANA



LEGEND

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- INVESTIGATION AREA
- DATA POINT
- OHWM LOCATION
- STREAMS
- WETLAND
- RSD

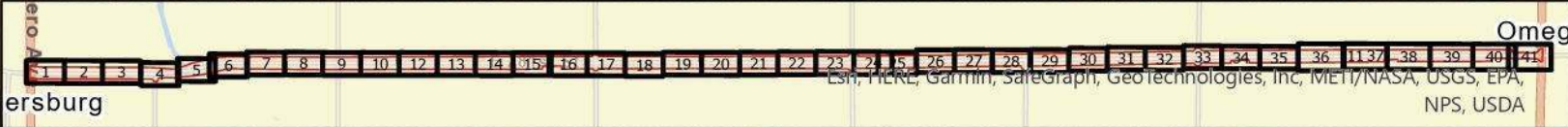


PHOTO LOCATION MAP

LOCATION: 281ST ST. FROM SR 19 TO SR 213
 DES. NO.: 2003031
 COUNTY: HAMILTON

PAGE 27 OF 41

Date: 11/08/2023

PHOTO LOCATION MAP
 281ST STREET REHABILITATION PROJECT
 HAMILTON COUNTY, INDIANA



LEGEND

- PHOTO LOCATION
- INVESTIGATION AREA
- DATA POINT
- OHWM LOCATION
- STREAMS
- WETLAND
- RSD



PHOTO LOCATION MAP

PAGE 28 OF 41

LOCATION: 281ST ST. FROM SR 19 TO SR 213
 DES. NO.: 2003031
 COUNTY: HAMILTON

Date: 11/08/2023

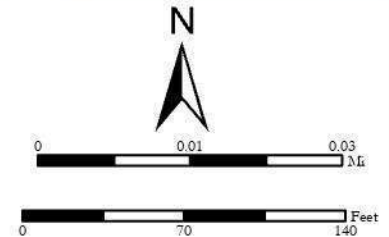


PHOTO LOCATION MAP
 281ST STREET REHABILITATION PROJECT
 HAMILTON COUNTY, INDIANA



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-  RSD

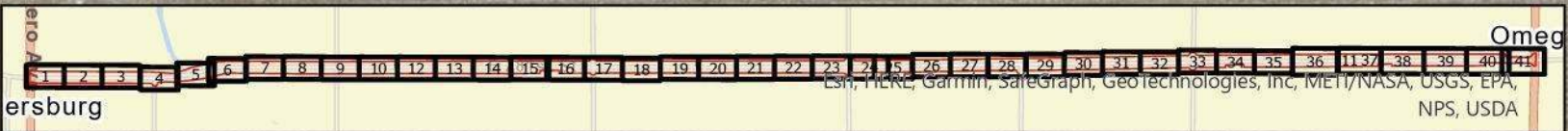


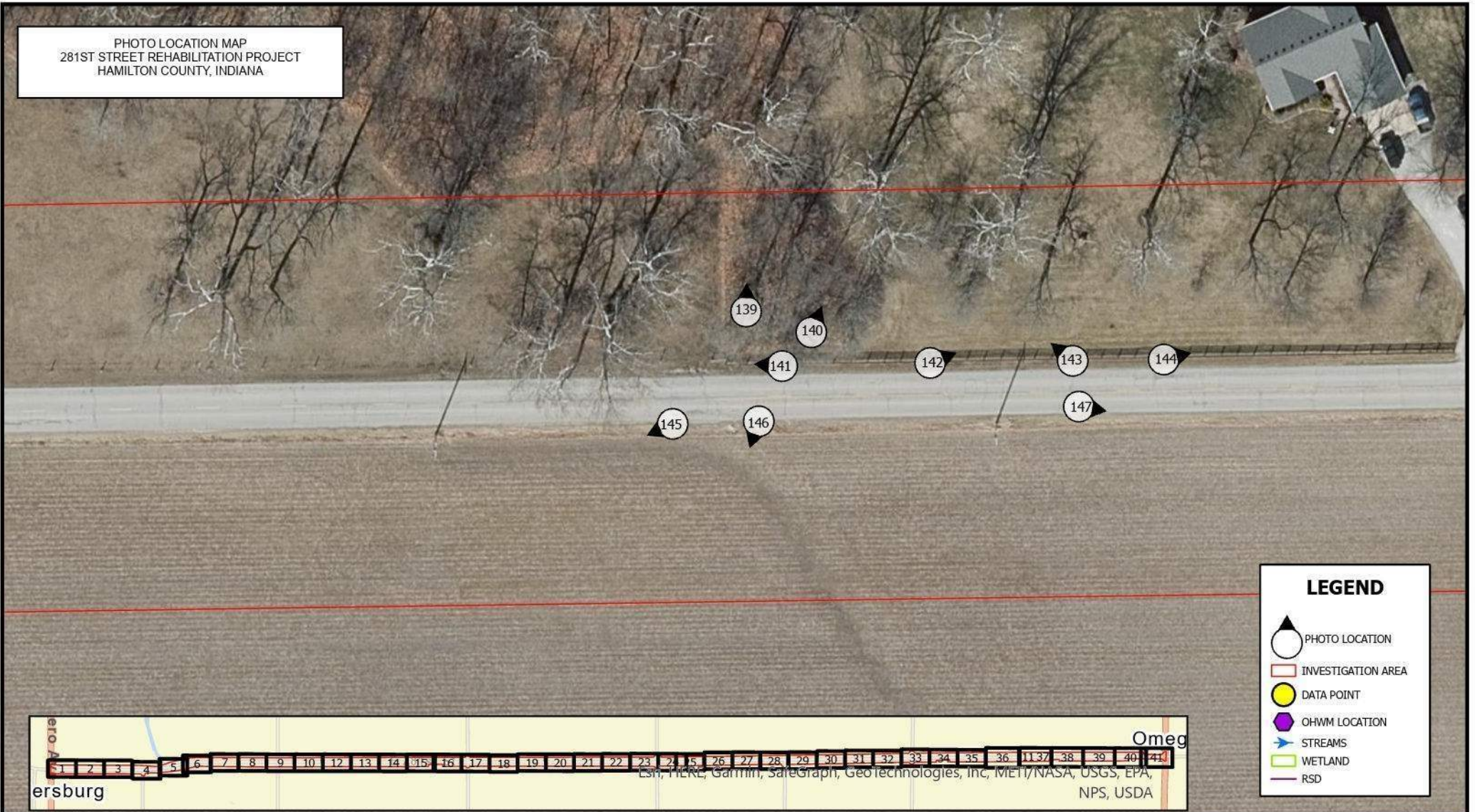
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LOCATION: 281ST ST. FROM SR 19 TO SR 213
 DES. NO.: 2003031
 COUNTY: HAMILTON

PAGE 29 OF 41

Date: 11/08/2023

PHOTO LOCATION MAP
281ST STREET REHABILITATION PROJECT
HAMILTON COUNTY, INDIANA



LEGEND

- PHOTO LOCATION
- INVESTIGATION AREA
- DATA POINT
- OHWM LOCATION
- STREAMS
- WETLAND
- RSD



PHOTO LOCATION MAP

PAGE 30 OF 41

LOCATION: 281ST ST. FROM SR 19 TO SR 213
DES. NO.: 2003031
COUNTY: HAMILTON

Date: 11/08/2023

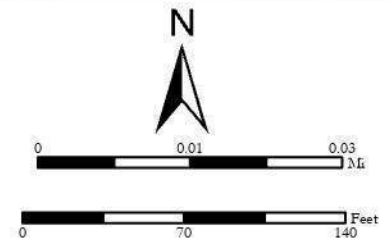


PHOTO LOCATION MAP
 281ST STREET REHABILITATION PROJECT
 HAMILTON COUNTY, INDIANA



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-  STREAMS
-  WETLAND
-  RSD

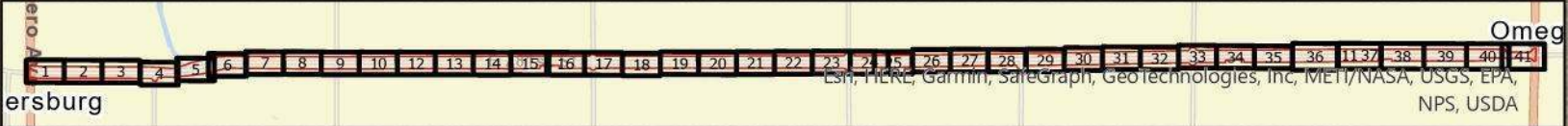


PHOTO LOCATION MAP

LOCATION: 281ST ST. FROM SR 19 TO SR 213
 DES. NO.: 2003031
 COUNTY: HAMILTON

PAGE 31 OF 41

Date: 11/08/2023

PHOTO LOCATION MAP
 281ST STREET REHABILITATION PROJECT
 HAMILTON COUNTY, INDIANA



LEGEND

- PHOTO LOCATION
- INVESTIGATION AREA
- DATA POINT
- OHWM LOCATION
- STREAMS
- WETLAND
- RSD

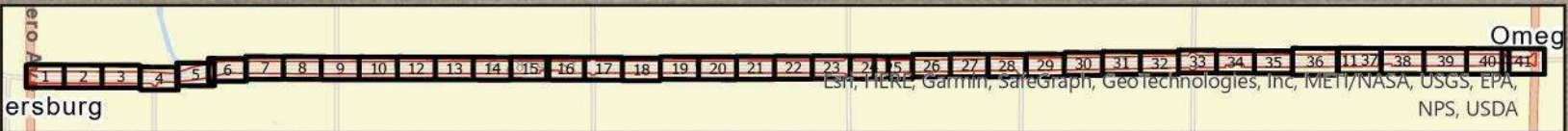


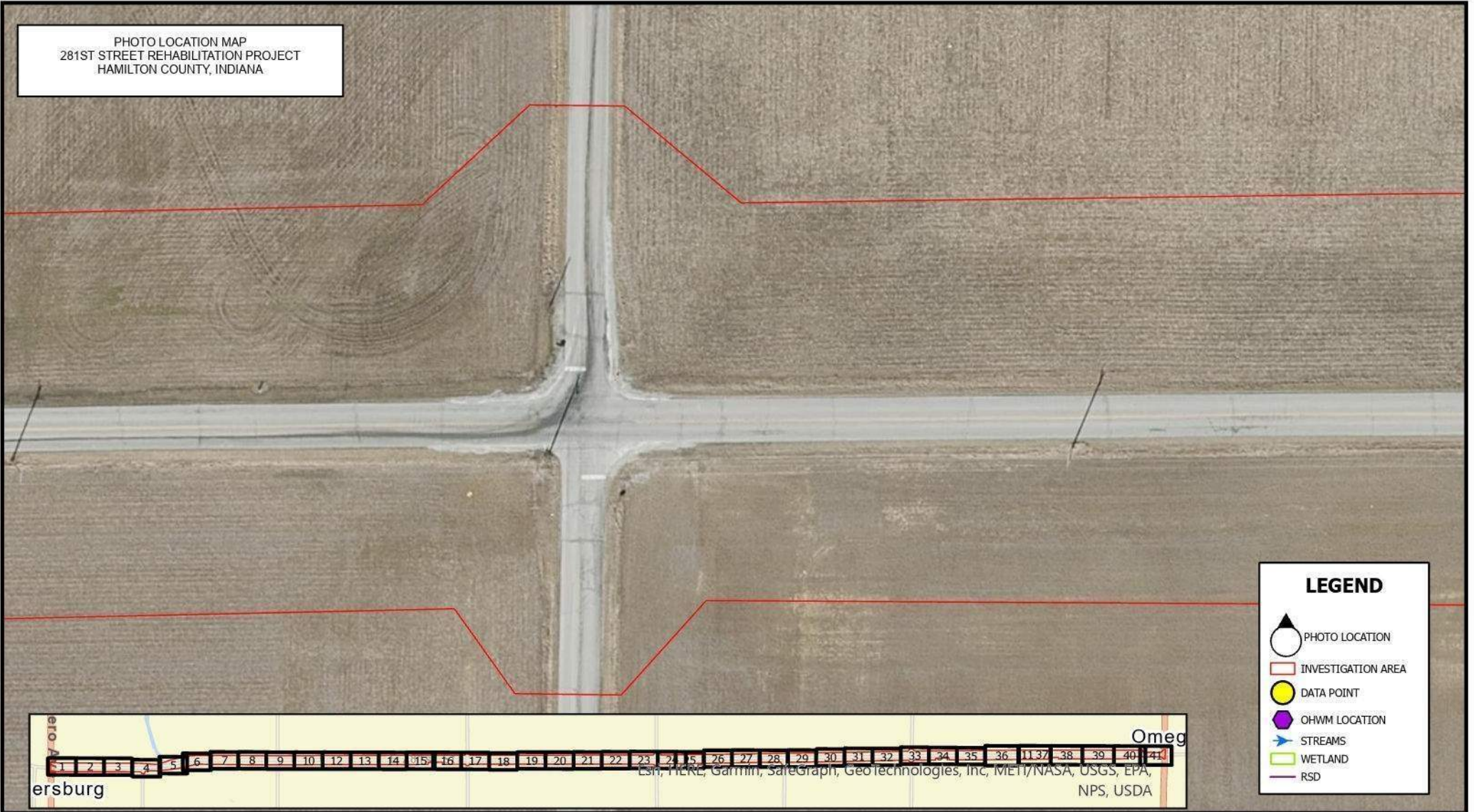
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LOCATION: 281ST ST. FROM SR 19 TO SR 213
 DES. NO.: 2003031
 COUNTY: HAMILTON

PAGE 32 OF 41

Date: 11/08/2023

PHOTO LOCATION MAP
 281ST STREET REHABILITATION PROJECT
 HAMILTON COUNTY, INDIANA



LEGEND

- PHOTO LOCATION
- INVESTIGATION AREA
- DATA POINT
- OHWM LOCATION
- STREAMS
- WETLAND
- RSD



PHOTO LOCATION MAP

PAGE 33 OF 41

LOCATION: 281ST ST. FROM SR 19 TO SR 213
 DES. NO.: 2003031
 COUNTY: HAMILTON

Date: 11/08/2023

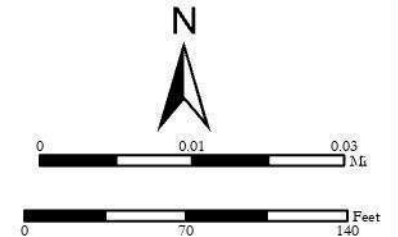
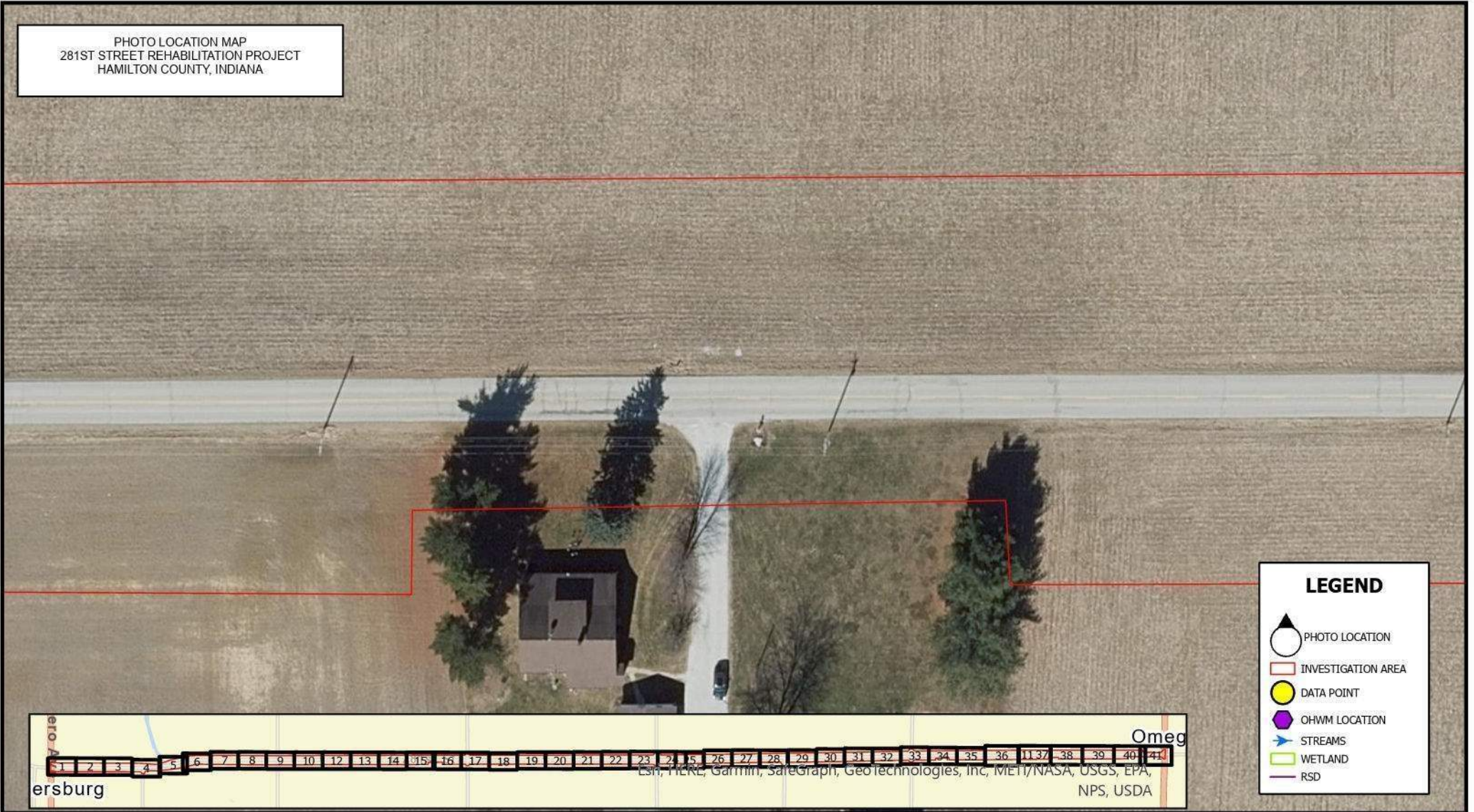


PHOTO LOCATION MAP
 281ST STREET REHABILITATION PROJECT
 HAMILTON COUNTY, INDIANA



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- DATA POINT
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- STREAMS
- WETLAND
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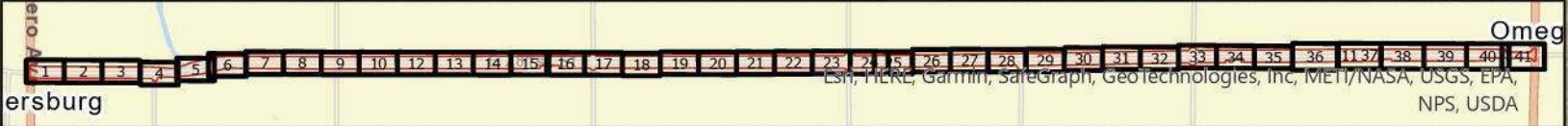


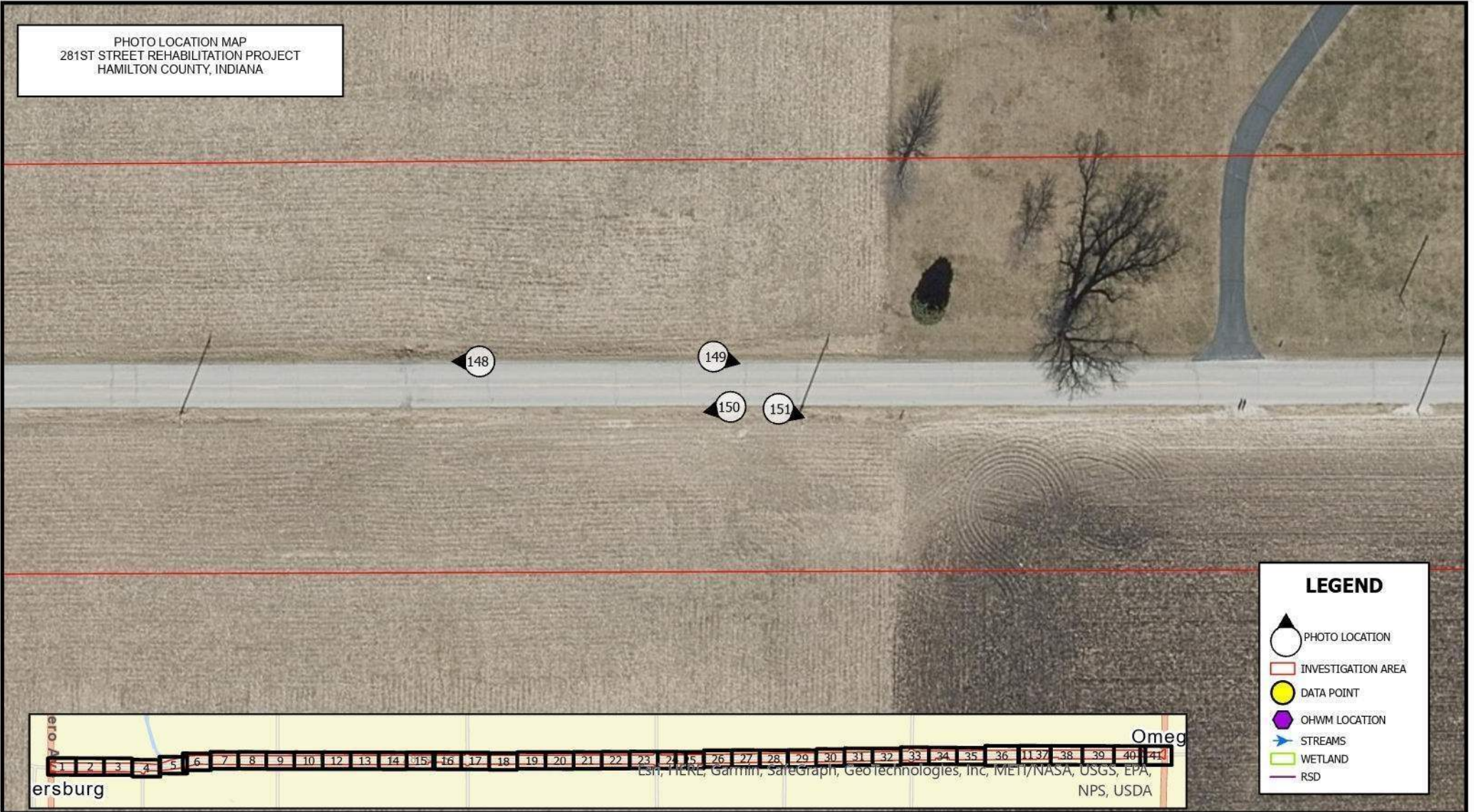
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LOCATION: 281ST ST. FROM SR 19 TO SR 213
 DES. NO.: 2003031
 COUNTY: HAMILTON

PAGE 34 OF 41

Date: 11/08/2023

PHOTO LOCATION MAP
 281ST STREET REHABILITATION PROJECT
 HAMILTON COUNTY, INDIANA



LEGEND

- PHOTO LOCATION
- INVESTIGATION AREA
- DATA POINT
- OHWM LOCATION
- STREAMS
- WETLAND
- RSD



PHOTO LOCATION MAP

PAGE 35 OF 41

LOCATION: 281ST ST. FROM SR 19 TO SR 213
 DES. NO.: 2003031
 COUNTY: HAMILTON

Date: 11/08/2023

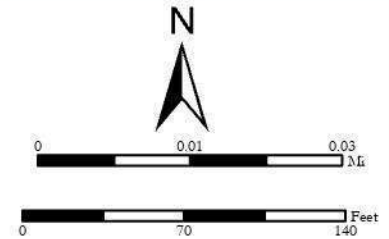


PHOTO LOCATION MAP
 281ST STREET REHABILITATION PROJECT
 HAMILTON COUNTY, INDIANA



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- DATA POINT
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- STREAMS
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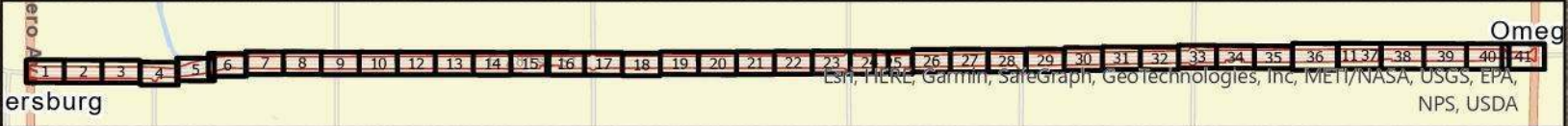


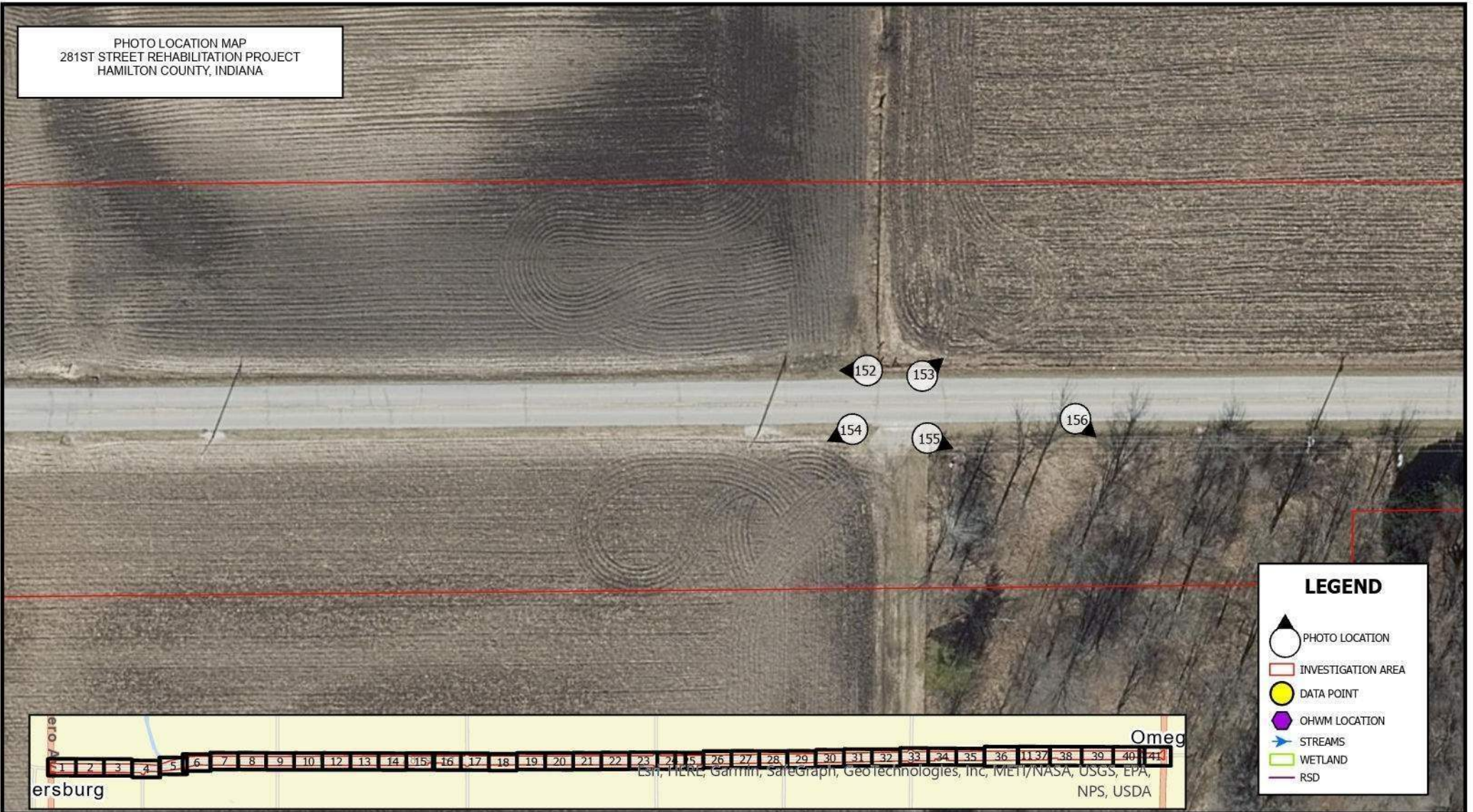
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LOCATION: 281ST ST. FROM SR 19 TO SR 213
 DES. NO.: 2003031
 COUNTY: HAMILTON

PAGE 36 OF 41

Date: 11/08/2023

PHOTO LOCATION MAP
 281ST STREET REHABILITATION PROJECT
 HAMILTON COUNTY, INDIANA



LEGEND

- PHOTO LOCATION
- INVESTIGATION AREA
- DATA POINT
- OHWM LOCATION
- STREAMS
- WETLAND
- RSD



PHOTO LOCATION MAP

PAGE 37 OF 41

LOCATION: 281ST ST. FROM SR 19 TO SR 213
 DES. NO.: 2003031
 COUNTY: HAMILTON

Date: 11/08/2023

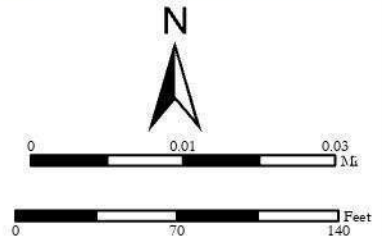


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 HAMILTON COUNTY, INDIANA

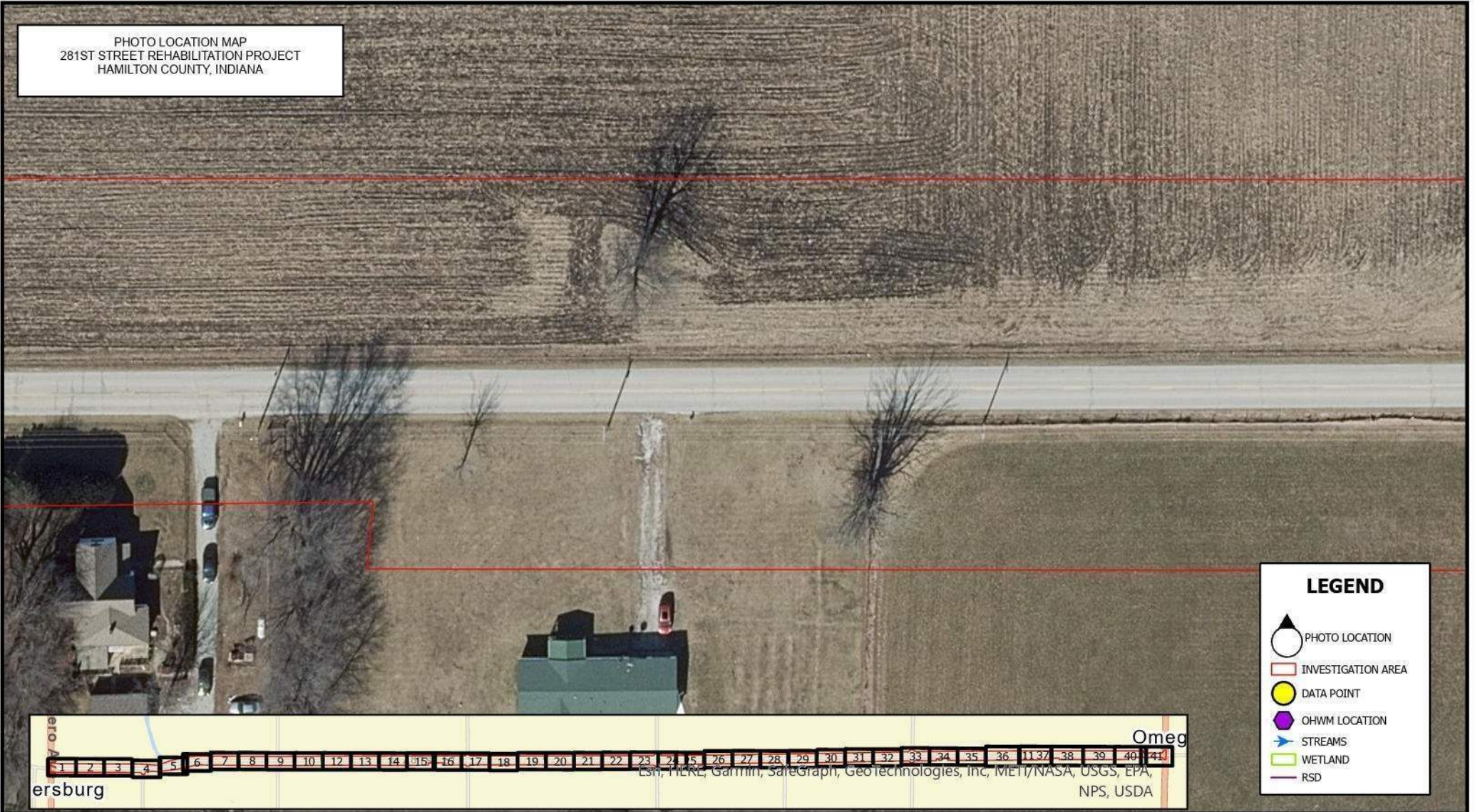


PHOTO LOCATION MAP

PAGE 38 OF 41

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 DES. NO.: 2003031
 COUNTY: HAMILTON

Date: 11/08/2023

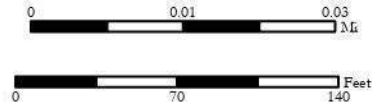


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 HAMILTON COUNTY, INDIANA

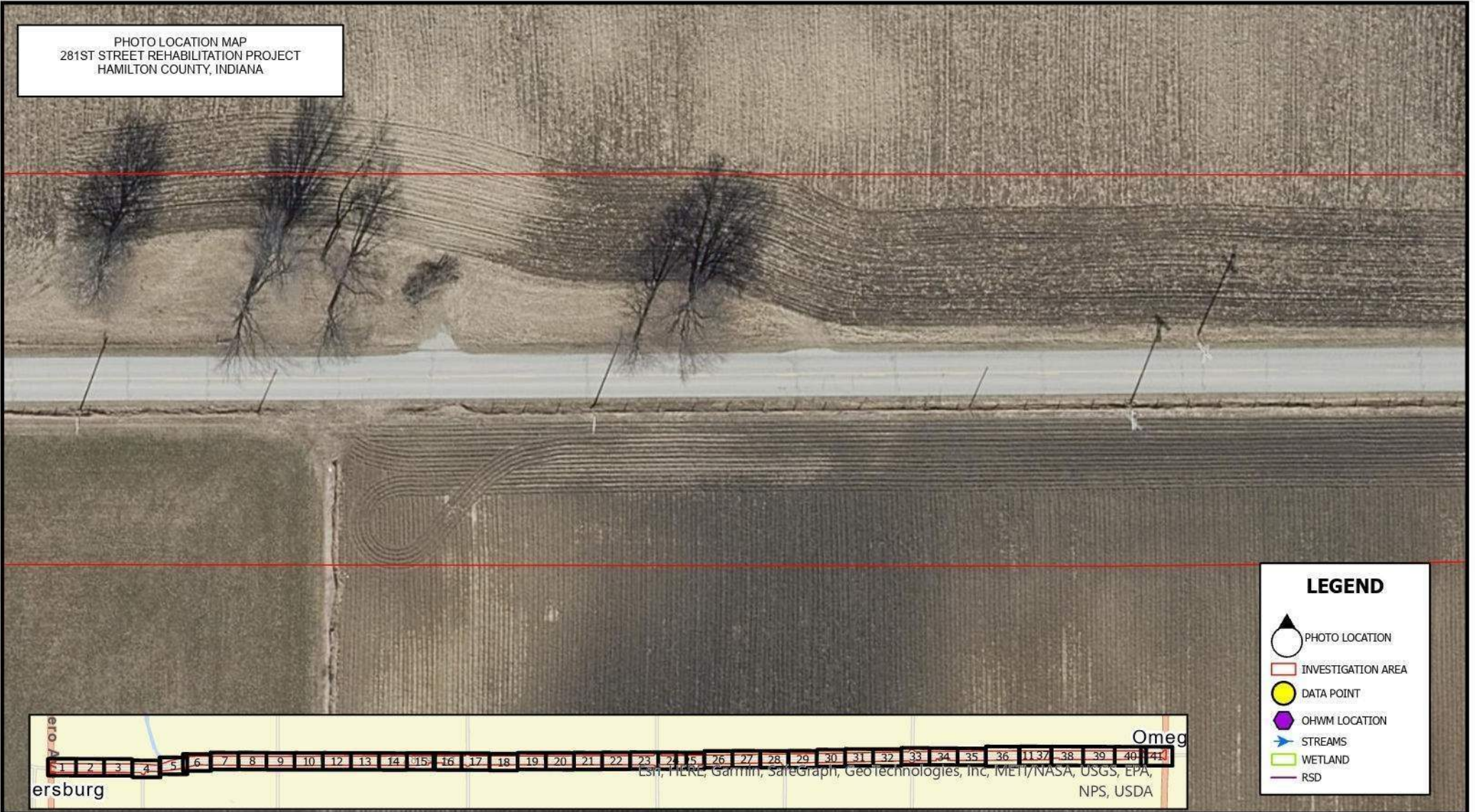


PHOTO LOCATION MAP

PAGE 39 OF 41

LOCATION: 281ST ST. FROM SR 19 TO SR 213
 DES. NO.: 2003031
 COUNTY: HAMILTON

Date: 11/08/2023

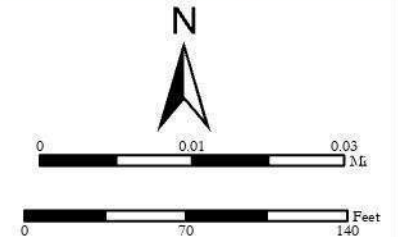
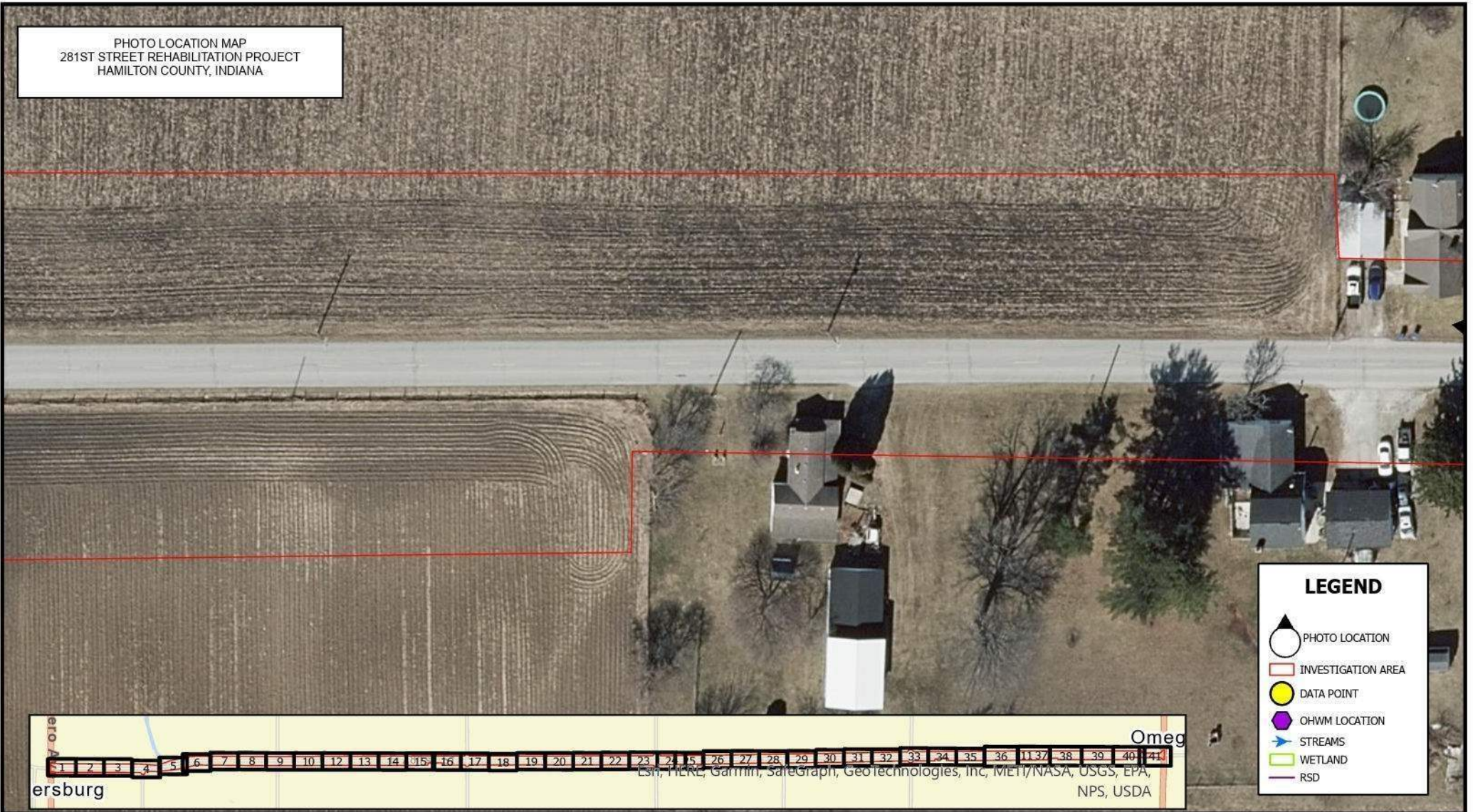


PHOTO LOCATION MAP
 281ST STREET REHABILITATION PROJECT
 HAMILTON COUNTY, INDIANA



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-  STREAMS
-  WETLAND
-  RSD

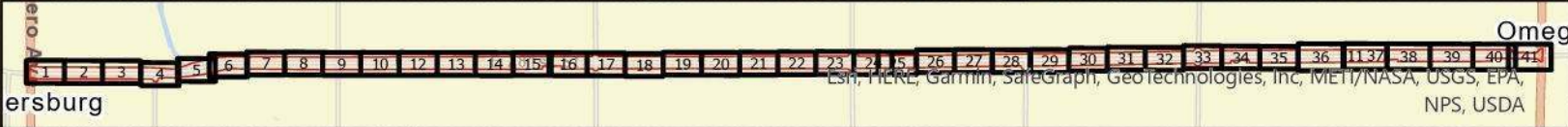


PHOTO LOCATION MAP

LOCATION: 281ST ST. FROM SR 19 TO SR 213
 DES. NO.: 2003031
 COUNTY: HAMILTON

PAGE 40 OF 41

Date: 11/08/2023

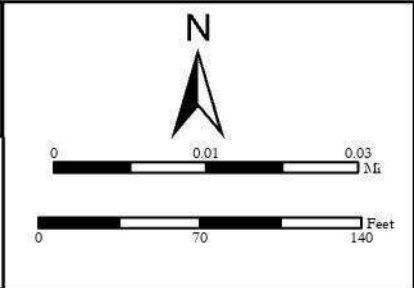


PHOTO LOCATION MAP
281ST STREET REHABILITATION PROJECT
HAMILTON COUNTY, INDIANA



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- WETLAND
- RSD

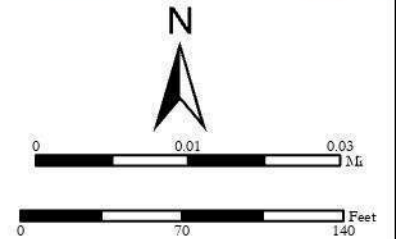


PHOTO LOCATION MAP

PAGE 41 OF 41

LOCATION: 281ST ST. FROM SR 19 TO SR 213
DES. NO.: 2003031
COUNTY: HAMILTON

Date: 11/08/2023





1. Facing north just south of 281st St looking at RSD 1 and maintained roadside. Photo taken 08/08/2023.



2. Facing south just south of 281st St looking at maintained roadside and surroundings. Photo taken 08/08/2023.



3. Facing south just north of 281st St looking at agricultural field and surroundings. Photo taken 08/08/2023.



4. Facing south just north of 281st St looking at RSD 2 and surroundings. Photo taken 08/08/2023.



5. Facing southwest just south of 281st St looking at roadside and surroundings. Photo taken 08/08/2023.



6. Facing south just south of 281st St looking at outlet of structure and Wetland A in the background. Photo taken 08/08/2023.



7. Facing southeast just south of 281st St. looking at roadside and Wetland A to the right of the photo. Photo taken 08/08/2023.



8. Looking at soil profile for data point A1 in Wetland A. Photo taken 08/08/2023.



9. Facing south just south of 281st St. looking at data point A1 location in Wetland A. Photo taken 08/08/2023.



10. Facing southeast looking at data point A1 in Wetland A. Photo taken 08/08/2023.



11. Facing north looking at data point A1 location in Wetland A. Photo taken 08/08/2023.



12. Facing west looking at data point A1 location in Wetland A. Photo taken 08/08/2023.



13. Facing northeast just south of 281st St. looking at Wetland A. Photo taken 08/08/2023.



14. Facing southeast south of 281st St. looking at data point A2 location. Photo taken 08/08/2023.



15. Facing north just south of 281st St. looking at data point A2 location. Photo taken 08/08/2023.



16. Facing west just south of 2841st St. looking at data point A2 location. Photo taken 08/08/2023.



17. Facing southwest just south of 281st St. looking at data point A2 location. Photo taken 08/08/2023.



18. Looking at soil profile for data point A2. Photo taken 08/08/2023.



19. Facing northeast just north of 281st St. looking at maintained roadside and surroundings. Photo taken 08/08/2023.



20. Facing north just north of 281st St. looking at open field and surroundings. Photo taken 08/08/2023.



21. Facing west just north of 281st St. looking at roadside and surroundings. Photo taken 08/08/2023. .



22. Facing south just north of 281st St. looking at inlet of structure. Photo taken 08/08/2023. .



23. Facing northeast just north of 281st St. looking at open field and surroundings. Photo taken 08/08/2023.



24. Facing south just north of 281st St. looking at open field and surroundings. Photo taken 08/08/2023.



25. Facing west just south of 281st St. looking at agricultural field and maintained roadside. Photo taken 08/08/2023.



26. Facing east just south of 281st St. looking at agricultural field and maintained roadside. Photo taken 08/08/2023.



27. Facing west just north of 281st St. looking at agricultural field and maintained roadside. Photo taken 08/08/2023.



28. Facing east just north of 281st St. looking at agricultural field and maintained roadside. Photo taken 08/08/2023.



29. Facing northwest just south of 281st St. looking at agricultural field and maintained roadside. Photo taken 08/08/2023.



30. Facing northeast just south of 281st St. looking at maintained roadside. Photo taken 08/08/2023.



31. Facing east just south of 281st St. looking at RSD 3 and maintained roadside. Photo taken 08/08/2023.



32. Facing east just north of 281st St. looking at RDS 4 and maintained roadside. Photo taken 08/08/2023.



33. Facing southwest just south of 281st St. looking at RSD 5 and maintained roadside. Photo taken 08/08/2023.



34. Facing southeast looking at RSD 5 and maintained roadside. Cicero Creek in the background. Photo taken 08/08/2023.



35. Facing west just north of 281st St. looking at maintained roadside and surroundings. Photo taken 08/08/2023



36. Facing east just north of 281st St. looking at maintained roadside and surroundings. Photo taken 08/08/2023.



37. Facing west just south of 281st St. looking at RSD 5. Photo taken 08/08/2023.



38. Facing north just south of 281st St. looking at Structure 29-00064 which carries 281st St. over Cicero Creek. Photo taken 08/08/2023.



39. Facing west just north of 281st St. looking at RSD 6 and roadside. Photo taken 08/08/2023.



40. Facing east looking at Little Cicero Creek under structure NBI: 400046. Photo taken 08/08/2023.



41. Facing northeast just north of 281st St. looking at Cicero Creek and surroundings. Photo taken 08/08/2023.



42. Facing east looking at Cicero Creek upstream of structure NBI: 400046. Photo taken 08/08/2023.



43. Facing southeast just north of 281st St. looking under 281st St. Photo taken 08/08/2023.



44. Facing north just south of 281st St. looking upstream of Cicero Creek. Photo taken 08/08/2023.



45. Facing southeast looking at Cicero Creek from 281st St. Photo taken 08/08/2023.



46. Facing south looking at the location of Cicero Creel OHWM location. Photo taken 08/08/2023.



47. Facing northwest looking at upstream of Cicero Creek from 281st St. Photo taken 08/08/2023.



48. Facing southwest looking at Cicero Creek from 281st St. Photo taken 08/08/2023.



49. Facing northwest looking at Cicero Creek and surroundings from 281st St. Photo taken 08/08/2023.



50. Facing west just south of 281st St. looking at roadside and surroundings. Photo taken 08/08/2023.



51. Looking at soil profile for Upland data point UP1. Photo taken 08/08/2023.



52. Facing west just south of 281st St. looking at UP1 data point location. Photo taken 08/08/2023.



53. Facing south just south of 281st St. looking at UP1 data point location. Photo taken 08/08/2023.



54. Facing east just south of 281st St. looking at UP1 data point location. Photo taken 08/08/2023.



55. Facing north just south of 281st St. looking at UP1 data point location. Photo taken 08/08/2023.



56. Facing east just north of 281st St. looking at Wetland B and surroundings. Photo taken 08/08/2023.



57. Looking at soil profile for data point B1 in Wetland B. Photo taken 08/08/2023.



58. Facing southeast just south of 281st St looking at data point B1 location in Wetland B. Photo taken 08/08/2023.



59. Facing northeast just south of 281st St. looking at data point B1 location in Wetland B. Photo taken 08/08/2023.



60. Facing northwest just north of 281st St. looking at data point B1 location in Wetland B. Photo taken 08/08/2023.