AMERICAN TRANSMISSION SYSTEMS, INCORPORATED A FIRSTENERGY COMPANY

LETTER OF NOTIFICATION

Brookside-Longview East 138 kV Transmission Line, Brookside-Madison 138 kV Transmission Line, Longview-Madison 138 kV Transmission Line Structure Replacement Project

Case No.: 25-0018-EL-BLN

October 15, 2025

American Transmission Systems, Incorporated 341 White Pond Drive Akron, Ohio 44320

IN THE OHIO POWER SITING BOARD CASE NO. 25-0018-EL-BLN

LETTER OF NOTIFICATION

BROOKSIDE-LONGVIEW EAST 138 KV TRANSMISSION LINE,

BROOKSIDE-MADISON 138 KV TRANSMISSION LINE, LONGVIEW-MADISON 138 KV TRANSMISSION LINE

STRUCTURE REPLACEMENT PROJECT

The following information is being provided in accordance with the procedures in the Ohio

Administrative Code Chapter 4906-6 for the application and review of Accelerated Certificate

Applications. Based upon the requirements found in Appendix A to Adm.Code 4906-1-01, this

Project qualifies for submittal to the Ohio Power Siting Board ("OPSB") as a Letter of Notification

application.

4906-6-05(B): LETTER OF NOTIFICATION REQUIREMENTS

4906-6-05(B)(1): Name and Reference Number

Name of Project: Brookside-Longview East 138 kV Transmission Line,

Brookside-Madison 138 kV Transmission Line, Longview-Madison 138 kV Transmission Line

Structure Replacement Project

Reference Numbers: 2093 - Brookside-Longview East 138 kV Transmission Line,

2094-1 - Brookside-Madison 138 kV Transmission Line, 2094-2 - Longview-Madison 138 kV Transmission Line

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4906-6-05(B)(1): Brief Description of Project

In this Project, American Transmission Systems, Incorporated, ("ATSI"), a FirstEnergy company, is proposing to replace six (6) existing steel lattice structures that support multiple 138 kV transmission lines within a combined right-of-way ("ROW"). Four (4) existing double circuit suspension lattice structures that support the Brookside-Longview East 138 kV Transmission Line and the Longview-Madison 138 kV Transmission Line, will be replaced with new double circuit steel pole suspension structures on concrete foundations. One (1) double circuit suspension lattice structure that currently supports the

Brookside-Longview East 138 kV and Brookside-Madison 138 kV Transmission Lines will be replaced with a double circuit steel pole strain structure on a concrete foundation. Lastly, one (1) double circuit tangent deadend lattice tower that supports the Brookside-Longview East 138 kV and Brookside-Madison 138 kV Transmission Lines will be replaced with a double circuit steel pole strain structure on a concrete foundation.

The general location of the Project is shown in **Exhibit 1**, a partial copy of the United States Geologic Survey, Richland and Ashland Counties, OH, Quad Map. **Exhibit 2** is a copy of ESRI aerial imagery of the Project area. The general layout of the Project is shown in **Exhibit 3**. The Project is located in the City of Mansfield; Madison and Mifflin Townships in Richland County, Ohio; and in the City of Ashland; Mifflin, Milton, and Montgomery Townships in Ashland County, Ohio.

4906-6-05(B)(1): Letter of Notification Requirement

The Project meets the requirements for a Letter of Notification application because the Project is within the types of projects defined by Item (2)(b) of the Application Requirement Matrix for Electric Power Transmission Lines, Appendix A of Adm.Code 4906-1-01. This item states:

(2) Adding new circuits on existing structures designed for multiple circuit use, replacing conductors on existing structures with larger or bundled conductors, adding structures to an existing transmission line, or replacing structures with a different type of structure, for a distance of:

(b) More than two miles.

The proposed Project is within the requirements of Item (2)(b) because it involves the replacement of structures with a different type of structure for a distance greater than 2 miles.

4906-6-05(B)(2): Need for the Project

As a part of ATSI's Right-Of-Way ("ROW") Assurance Program, a program that assesses existing transmission lines and their associated ROWs for clearance issues that violate the National Electric Reliability Corporation ("NERC") design and operating field condition requirements; and the National Electrical Safety Code ("NESC") minimum transmission line conductor-to-ground clearance requirements, multiple clearance concerns throughout the existing Brookside-Longview East 138 kV Transmission Line, Brookside-Madison 138 kV Transmission Line, and the Longview-Madison 138 kV Transmission Line have been identified. After modeling the circuits with LiDAR data, ATSI found that actual measured field clearances did not match the design clearances for the operation of the circuits.

Upon discovery of the clearance concern, immediate action was taken to reduce the allowable ratings of the Brookside-Longview East 138 kV Transmission Line, Brookside-Madison 138 kV Transmission Line, and the Longview-Madison 138 kV Transmission Line ("de-rate") and to begin developing permanent mitigation to achieve adequate clearances at the transmission lines' maximum operating temperature.

The proposed permanent solution consists of replacing six (6) existing structures. These proposed structures will reestablish adequate clearances for the conductors.

4906-6-05(B)(3): Location of the Project Relative to Existing or Proposed Lines

The location of the Project relative to existing or proposed lines is shown in the ATSI Transmission Network Map, included as part of the confidential portion of the FirstEnergy Corp. 2025 Long-Term Forecast Report. This map was submitted to the Public Utilities Commission of Ohio ("PUCO") in Case No. 25-0504-EL-FOR under Adm.Code 4901:5-5-04(C)(2)(b). This map is incorporated by reference only. The Project was not included in the 2025 LTFR as this Project does not entail any topology or rating change. The general location of the Project area is shown in **Exhibits 1 and 2**. The general layout is shown in **Exhibit 3**.

4906-6-05(B)(4): Alternatives Considered

Due to the nature of the identified clearance issue, there were no alternatives considered for this project.

This project was not presented to PJM because it will not cause any topology or ratings changes.

4906-6-05(B)(5): Public Information Program

ATSI will publish notice of the Project in the Ashland Times Gazette and the Mansfield News Journal within 7 days of filing this Letter of Notification application. The notice will comply with Adm.Code 4906-6-08(A)(1)-(6). In addition to the public notice, ATSI will mail letters in accordance with Adm.Code 4906-6-08(B) explaining the Project to affected property owners and tenants within and contiguous to the planned Project area. ATSI has also established a Project website:

https://www.firstenergycorp.com/about/transmission_projects/ohio.html.

ATSI's manager of External Affairs will advise local officials of the features and the status of the proposed Project as necessary.

Finally, during all phases of this Project, ATSI will maintain the transmission projects hotline at 1-888-311-4737 and respond to questions submitted via email at: transmissionprojects@firstenergycorp.com. The public may use either the hotline or email to ask questions or leave comments on the Project for ATSI.

4906-6-05(B)(6): Construction Schedule

Construction on the Project is expected to begin as early as February 2026 and be completed/in-service by December 2026.

4906-6-05(B)(7): Area Map

Exhibit 1 depicts the general location of the Project. This Exhibit provides a partial copy of the United States Geologic Survey, Richland County and Ashland County, OH, Quad Map. **Exhibit 2** is a partial copy of ESRI aerial imagery of the Project area.

4906-6-05(B)(8): Properties List

The Project is located on existing right-of-way. No new easements or right-of-way will need to be acquired. **Exhibit 4** contains a list of properties affected by the Project.

4906-6-05(B)(9): TECHNICAL FEATURES OF THE PROJECT

4906-6-05(B)(9)(a): Operating Characteristics

The transmission line construction will have the following characteristics:

Voltage: 138 kV

Conductors: 336.4 kcmil 30/7 ACSR

Static Wire: Optical Ground Wire 24/48/504 (OPGW)

Insulators: Polymer, Glass

ROW Width: 150 feet Land Requirements: Existing

Structure Types: Exhibit 5: 138kV Double Circuit Steel Pole Tangent Structure (4

structures)

Exhibit 6: 138 kV Double Circuit Steel Pole Strain Structure (2)

Structures)

4906-6-05(B)(9)(b): Electric and Magnetic Fields

As there are no occupied residences or institutions within 100 feet from the existing transmission line centerline, Electric and Magnetic Field ("EMF") calculations are not required by this code provision.

4906-6-05(B)(9)(c): Estimated Cost

The estimated cost for the proposed Project is \$3,325,000. Although not statutorily required for approval, at the request of OPSB Staff, ATSI confirms that ATSI's costs will be captured and allocated via FERC formula rates for the ATSI Transmission Zone, Attachment H-21 in the PJM OATT.

4906-6-05(B)(10): Social and Ecological Impacts

4906-6-05(B)(10)(a): Land Uses

The Project is located in the City of Mansfield; Madison and Mifflin Townships in Richland County, Ohio; and in the City of Ashland; Mifflin, Milton, and Montgomery Townships in Ashland County, Ohio. There are various land uses along the route of the line, mainly agricultural uses, with residential, commercial and industrial uses to a lesser extent.

4906-6-05(B)(10)(b): Agricultural Land

A list of all agricultural land and acreage, including agricultural district land, is provided in **Exhibit 4**.

4906-6-05(B)(10)(c): Archaeological or Cultural Resources

As part of the investigation for this Letter of Notification, TRC Companies, Inc. ("TRC") submitted a request to the Ohio State Historic Preservation Office ("SHPO") on behalf of ATSI to review the Project Study Area (Area of Potential Effects or "APE") within a one (1)-mile search radius. On October 17, 2024, SHPO replied to the request and the response is attached as **Exhibit 7**. SHPO concurred that the Project, as proposed, will not affect any historic properties. No further coordination is required unless the scope of work changes or archaeological deposits are discovered during the course of the Project.

The OHPO database includes a catalog of all historic properties listed in or eligible for listing in the National Register of Historic Places (NRHP), including districts, sites, building, structures, and objects that are significant in American history, architecture, archeology, engineering, and culture. The results of the search identified that there are four (4) above-ground historic resources that are listed in the NHRP. These resources include the Ashland County Children's Home (Ref No.: SG100004059), located 0.78-mile north of Section 2 of the Study Area; the Arthur Street School (Ref No.: SG100006147), located

0.96-mile west of Section 1 of the Study Area; the Samuel Lewis House (Ref No.: 82003636), recorded 0.78 mi southeast of the Study Area; and the Ohio State Reformatory (Ref No.: 83002039), located 0.77 mi northwest of the Study Area. Additionally, there is one (1) above-ground historic resource (DOE ID: 714) mapped 0.77-mile southeast of Section 2 of the Study Area. There are 31 above-ground historic resources that have been recorded but not yet evaluated for NRHP eligibility and 10 Ohio Genealogical Society (OGS) Cemeteries mapped within one (1)-mile of the proposed Project.

There have been 16 official archaeological surveys conducted within one (1)-mile of the proposed Project. Through these surveys and efforts of local collectors, 26 archaeological sites have been mapped within one (1) mile of the Study Area. The sites include 19 precontact sites, four (4) historic sites, and three (3) multi-component historic and pre-contact sites. The nearest of the sites is situated 0.06-mile southeast of the Project Area.

The Project Study Area consists of an existing utility ROW located within an area of existing industrial land use. The APE will correspond to the Limit of Disturbance (LOD), which is entirely within the Study Area and will include all areas in which construction activities associated with the proposed Project will take place. All work will be performed within the existing utility corridor. Currently, as proposed, no tree clearing is anticipated. The proposed Project is not expected to have any adverse effects on known historic properties. To date, TRC has not conducted any on-site cultural resources surveys.

4906-6-05(B)(10)(d): Construction Filings with Local, State and Federal Governmental Agencies

Coordination with Milton Township to obtain a right-of-way permit, if necessary, for work within the right-of-way of Township Rd 1656 and Township Road 1153 will be required. Coordination with Mifflin Township to obtain a right-of-way permit, if necessary, for work within the right-of-way of Bowen Rd and Township Rd 1706 will be required. Coordination with Richland County to obtain a right-of-way permit, if necessary, for work within the right-of-way of CR-92 Crider Rd will be required. If overweight hauling is required, coordination with Madison, Milton and Mifflin Townships, as well as Ashland

and Richland Counties will be initiated to confirm special hauling permits and/or Road Use Maintenance Agreements (RUMA). More than 1 acre of earth disturbance is proposed based on review of the preliminary construction plans. Therefore, the submittal of a Notice of Intent application with the Ohio EPA is required for coverage under the general construction stormwater permit (OHC000006). A Storm Water Pollution Prevention Plan (SWPPP) submittal is required for review by Richland County Soil and Water Conservation and coordination to confirm review by Ashland County Soil and Water Conservation District. In addition, the Project is not proposed within any 100-year floodplains, therefore, coordination is not required with the local floodplain administrator. Table 1 shows the list of government agency requirements for the Project.

Table 1. List of Government Agency Requirements

Table 1: Elst of Government Agency Requirement	,		
Ohio Environmental Protection Agency	General NPDES Construction Storm		
(OEPA)	Water Permit OHC000006		
Milton Township	Right of Way Permit (Coordination)		
Mifflin Township			
Richland County Engineer			
Madison Township			
Richland County Soil and Water	SWPPP Review		
Conservation District			
Ashland County Soil and Water	SWPPP Review (Coordination)		
Conservation District			
Milton Township	Special Hauling Permit and Road Use		
Mifflin Township	Maintenance Agreement (RUMA)		
Madison Township	(Coordination)		
Ashland County			
Richland County			

4906-6-05(B)(10)(e): Endangered, Threatened, Rare and Designated Species Investigation

As part of the investigation, ASTI retained TRC to conduct the necessary environmental surveys. TRC submitted two requests to the Ohio Department of Natural Resources (ODNR) Office of Real Estate to conduct an Environmental Review. As part of the Environmental Review, the ODNR Office of Real Estate conducted a search of the ODNR Division of Wildlife's (DOW) Natural Heritage Database to research the presence of any endangered, threatened, or rare species within one (1) mile of the Project Study Area. The ODNR's Office of Real Estate's responses dated September 27, 2024, indicated that there

are six (6) records of state and/or federally listed plants, animals, and/or communities located within a one-mile radius of the Project area. A list of all state and/or federally listed species within one (1) mile of the Project area is provided in Table 2. The Project is also within the range of eight (8) state and/or federally listed plants or animal species. A copy of ODNR's Office of Real Estate's response is included as **Exhibit 8**. A list of all endangered, threatened, and rare species, as identified by ODNR, within the range of the Project is provided in Table 3.

Table 2. List of Endangered, Threatened, and Rare Species within 1 mile radius of Project Area

Common Name	Scientific Name	Federal Listed Status	State Listed Status	Affected Habitat	
Plants	Plants				
American Sweet- flag	Acorus americanus	N/A	Potentially Threatened	Shallow water and wetland edges.	
Marsh Five- finger	Comarum palustre	N/A	Threatened	Wet meadows and marshy streambanks.	
Canada Yew	Taxus canadensis	N/A	Potentially Threatened	Damp woods, wooded swamps, along banks and bog margins.	
Fish					
Iowa Darter	Etheostoma exile	N/A	Endangered	Perennial streams.	
Birds					
Sandhill Crane	Antigone canadensis	N/A	Threatened	Wetlands. grasslands and prairie.	
Mussels					
Slippershell Mussel	Alasmidonta viridis	N/A	Threatened	Perennial streams with fine gravel or sand	

Table 3. List of Endangered, Threatened, and Rare Species within range of Project Area

Common Name	Scientific Name	Federal Listed Status	State Listed Status	Affected Habitat
Mammals	Mammals			
Indiana Bat	Myotis sodalis	Endangered	Endangered	Trees, forests, caves, and caverns.
Little Brown Bat	Myotis lucifugus	N/A	Endangered	Trees, forests, caves, and caverns.
Northern Long- eared Bat	Myotis septentrionalis	Endangered	Endangered	Trees, forests, caves, and caverns.
Tricolored Bat	Perimyotis subflavus	N/A	Endangered	Trees, forests, caves, and caverns.
Fish				
Iowa Darter	Etheostoma exile	N/A	Endangered	Perennial streams.

Common Name	Scientific Name	Federal Listed Status	State Listed Status	Affected Habitat
Greater Redhorse	Moxostoma valenciennesi	N/A	Threatened	Perennial streams.
Birds	Birds			
Northern Harrier	Circus hudsonius	N/A	Endangered	Large marshes and grasslands.
Sandhill Crane	Antigone canadensis	N/A	Threatened	Wetlands. grasslands and prairie.
Upland Sandpiper	Bartramia longicauda	N/A	Endangered	Grasslands, pastures and hayfields.

The response from ODNR, DOW indicated that the Project is within the vicinity and the range of the federally and state endangered Indiana bat (*Myotis sodalis*), the federally and state endangered northern long-eared bat (*Myotis septentrionalis*), and the state endangered little brown bat (*Myotis lucifugus*). In addition, DOW indicated that the Project is within the range of the state endangered tricolored bat (*Perimyotis subflavus*). These bat species predominantly roost in trees behind loose, exfoliating bark, in crevices, and cavities, or in the leaves. These species are dependent on the forest structure surrounding the roost trees. The DOW recommended a desktop bat hibernaculum assessment be completed for the Project, which TRC completed for ATSI and submitted to ODNR for concurrence on October 16, 2024. ODNR responded on October 16, 2024, attached as **Exhibit 8A**, concurring that no caves, cliffs, or mine openings occur in the Project Area. Therefore, the Project is not likely to impact hibernating bats. No tree cutting or subsurface impacts to a hibernaculum are proposed, therefore this Project is not likely to impact these species.

The response from ODNR, NHD indicated records of the Slippershell Mussel (Alasmidonta viridis) within one (1) mile of the Project area. The Slippershell Mussel is found in perennial streams with fine gravel or sand. Since no in-water work is proposed in a perennial stream, this Project will not impact this species.

The response from ODNR, DOW and NHD indicate that the Project is within the range of the state threatened Sandhill Crane (Antigone canadensis), and that records of the Sandhill Crane exist within a one (1) mile radius of the Project area. DOW also indicated that the Project is within the range of the Northern Harrier (Circus hudsonius), and the Upland

Sandpiper (Bartramia longicauda), state endangered bird species. These listed bird species and their potential habitat are included in Table 2 and Table 3, respectively. Since no work is proposed in the listed habitats, this Project will not impact these species.

The response from ODNR, DOW and NHD indicate that the Project is within the range of the state endangered Iowa Darter (*Etheostoma exile*), and that records of the Iowa Darter exist within a one (1) mile radius of the Project area. DOW also indicated that the Project is within the range of the state threatened Greater Redhorse (*Moxostoma valenciennesi*). These fish species are found within perennial streams. Since no in-water work is proposed in a perennial stream, this Project will not impact these species.

The response from ODNR, NHD also indicated records of three (3) state-listed plant species within a one (1) mile radius of the Project. The listed plant species and their potential habitats are included in Table 2. Since no work is proposed in any of the listed habitats, this Project is not likely to impact these species.

As part of the investigation, TRC submitted two requests to the US Fish and Wildlife Service (USFWS) to research the presence of any endangered, threatened, rare, or designated species within one (1) mile of the Project Area. A copy of USFWS's Ecological Review responses, dated September 10 and 18, 2024, are included as **Exhibit 9**. The responses indicated that due to the Project type, size, and location, no adverse effects are anticipated to any other federally endangered, threatened, or proposed species, or proposed or designated critical habitat.

4906-6-05 (B)(10)(f): Areas of Ecological Concern

TRC conducted two (2) wetland and waterway delineations for this Project on September 11, 2024. The Project Study Areas included a total of 27.76 acres and 9.28 acres. The wetland and water delineation reports and photographic records are included in **Exhibit** 10. The area consists of an existing maintained utility right-of-way within agricultural and residential land use, developed open space, and forested habitat. During the field investigations, TRC did not observe the presence of any ODNR listed species due to the highly maintained nature of the utility right-of-way and surrounding agricultural and residential land use. During field investigations, a total of three (3) palustrine emergent wetlands were identified (W-EVN-1, W-EVN-2, and W-EVN-3). In addition, one (1)

perennial stream (S-EVN-1, Jamison Creek) and one (1) intermittent stream (S-EVN-2, Unnamed Tributary to Jamison Creek) were identified and delineated within the Project Study Area. No permanent impacts are anticipated to any potentially jurisdictional features within the Project Study Area.

The LOD will be completely within the Project Study Area as part of FirstEnergy's ROW Assurance Program. Access to install new structures will utilize timber matting and span bridges to avoid impacts to any potentially jurisdictional features. Nationwide Permit (NWP) 57 - Electric Utility Line and Telecommunications Activities (effective March 15, 2021, valid through March 14, 2026), authorizes the construction of access roads for the construction and maintenance of electric utility lines or telecommunication lines, including overhead lines and substations, in nontidal waters of the United States, provided the activity does not cause the loss of greater than 0.5-acre of waters of the United States. Nationwide Permit Regional General Conditions were reviewed regarding this Project.

It is anticipated that due to the nature of the Project, jurisdictional resources will not be permanently impacted by the proposed Project activities. If the scope of the Project changes to permanently impact potentially jurisdictional features, it is TRC's understanding that this Project would fall under NWP 57. This Project is located within the USACE Huntington Regulatory District. The Project locations are not listed in Appendix 1 to Regional General Condition 5(a) (Endangered Species and Threatened Species), which would trigger the need for a Section 404 Pre-Construction Notification (PCN). A PCN may be required if NWP 57 conditions are not met and/or thresholds are exceeded. Additionally, the Project is located within "Eligible" areas according to Ohio EPA's Stream Eligibility for the Nationwide Permit Program; however, Ohio EPA's 401 Water Quality Certification for NWP 57 is currently waived. No additional screening procedures are required for the Project regarding compliance with Ohio EPA's 401 Water Quality Certification. A review of the National Conservation Easement Database (www.conservationeasement.us) revealed no conservation easements within the Project Study Area.

4906-6-05(B)(10)(g): Other Information

Construction and operation of the proposed Project will be in accordance with the requirements specified in the latest revision of the NESC as adopted by the Public Utilities Commission of Ohio (PUCO) and will meet all applicable safety standards established by the Occupational Safety and Health Administration. No other or unusual conditions are expected that will result in significant environmental, social, health or safety impacts.

4906-6-07: Documentation of Letter of Notification Transmittal and Availability for Public Review

This Letter of Notification application is being provided concurrently with its docketing with the Board to the following officials.

Richland County

Darrell Banks Richland County Commissioner 50 Park Ave. East Mansfield, OH 444902 dbanks@richlandcountyoh.gov

Cliff Mears Richland County Commissioner 50 Park Ave. East Mansfield, OH 444902 cmears@richlandcountyoh.gov

Richland Soil and Water Conservation District 1495 West Longview Ave. Suite 205B Mansfield, OH 44906 Contact@richlandswcd.net Tony Verro Richland County Commissioner 50 Park Ave. East Mansfield, OH 444902 tvero@richlandcountyoh.gov

Adam Gove Richland County Engineer 77 N Mulberry St. Mansfield, OH 44902 agove@rcengineer.com

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Phillip Scott Council President 30 North Diamond St. Mansfield, OH 44902 pscott@ci.mansfield.oh.us Aurelio Diaz 5th Ward City Council 30 North Diamond St. Mansfield, OH 44902 adiaz@ci.mansfield.oh.us

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Deb Sitzer Mifflin Township Fiscal Officer 2308 Park Avenue East Mansfield, OH 44903 dswitzer@mifflinfire.com

Ashland County

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Steve Workman Ashland Council President 206 Claremont Ave Ashland, Ohio 44805 workman.steve@ashland-ohio.com

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Tim Echelberger Mifflin Township Trustee 2098 Twp. Rd. 1095 Ashland, OH 44805 timburger60@gmail.com

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Soil and Water Conservation Ashland County 110 Cottage St. Ashland, OH 44805 swcd@ashlandcounty.org

Dennis Miller Ashland Council Ward 3 206 Claremont Ave Ashland, Ohio 44805 miller.dennis@ashland-ohio.com

Dan Atterholt Mifflin Township Trustee 2098 Twp. Rd. 1095 Ashland, OH 44805 Slimbob74@gmail.com

John Bartley Mifflin Township Fiscal Officer 2098 Twp. Rd. 1095 Ashland, OH 44805 mifflintrustees@gmail.com

Eric Fulk Milton Township Trustee 1196 County Road 1356 Ashland, OH 44805 Don Mutchler Milton Township Vice Chair 1196 County Road 1356 Ashland, OH 44805 Jean Saner Milton Township Fiscal Officer 1196 County Road 1356 Ashland, OH 44805 miltontwp@yahoo.com

Montgomery Township

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Steve Uhler Montgomery Township Trustee PO Box 5116 Ashland, OH 44805 Andrea Wertz
Montgomery Township Fiscal
Officer
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Ashland, OH 44805
montgomerytwp@zoominternet.net

Library

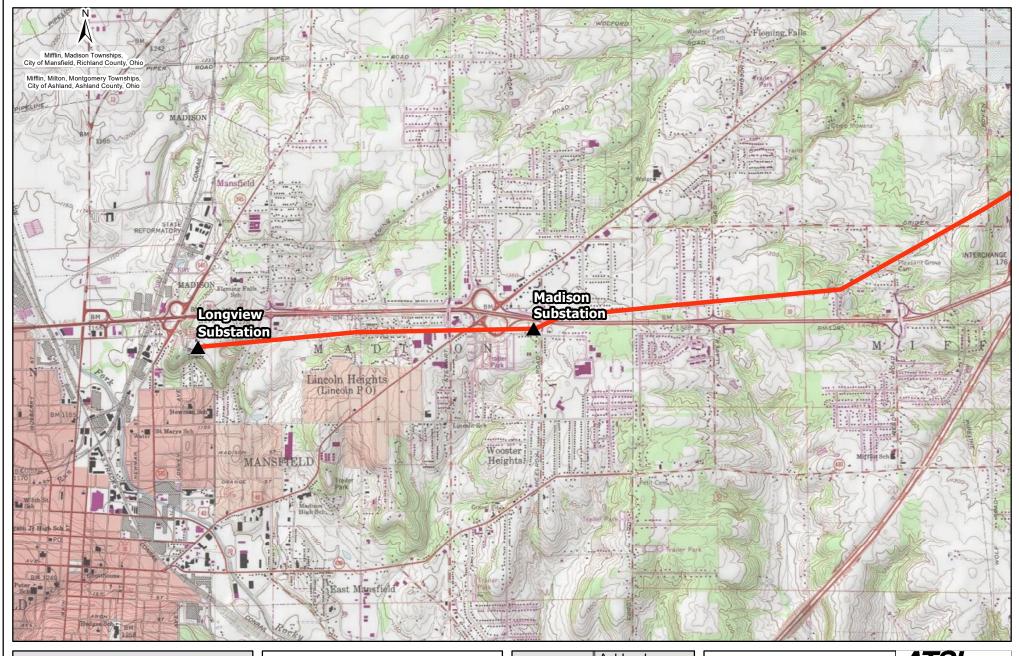
Chris May
Director
Mansfield-Richland County
Public Library
43 W 3rd Street
Mansfield, OH 44902
cmay@mrcpl.org

Jessica Kremser Director Ashland Public Library 224 Claremont Ave Ashland, OH 44805 jkremser@ashland.lib.oh.us

Copies of the transmittal letters to these officials have been included with this application as proof of compliance under Adm.Code 4906-6-07(B) to provide the Board with proof of notice to local officials as required by Adm.Code 4906-6-07(A)(1) and to libraries per Adm.Code 4906-6-07(A)(2).

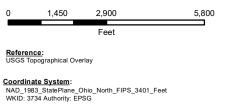
Information is posted at:

www.firstenergycorp.com/about/transmission_project/ohio.html on how to request an electronic or paper copy of this Letter of Notification application. The link to this website is being provided to meet the requirements of Adm.Code 4906-6-07(B) and to provide the Board with proof of compliance with the notice requirements in Adm.Code 4906-6-07(A)(3).





Transmission Line



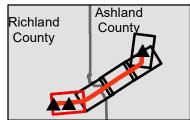


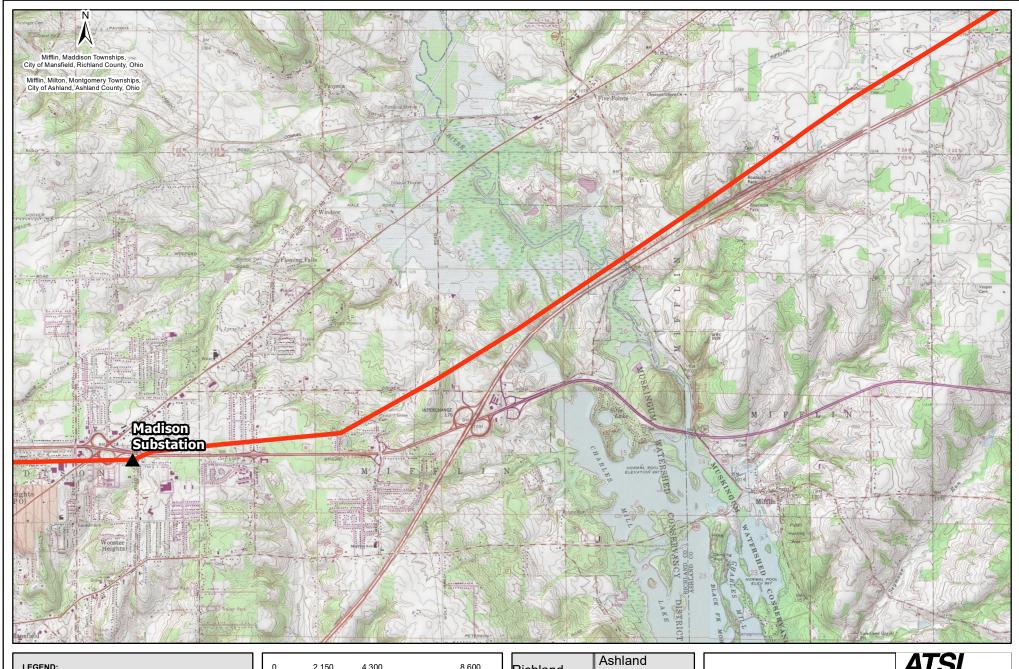
EXHIBIT 1

ATSI_®

American Transmission Systems, Inc. a subsidiery of FirstEnergy Corp.

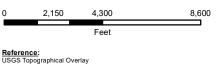
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Transmission Line



Coordinate System:

NAD_1983_StatePlane_Ohio_North_FIPS_3401_Feet
WKID: 3734 Authority: EPSG

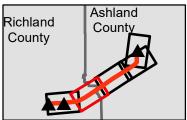
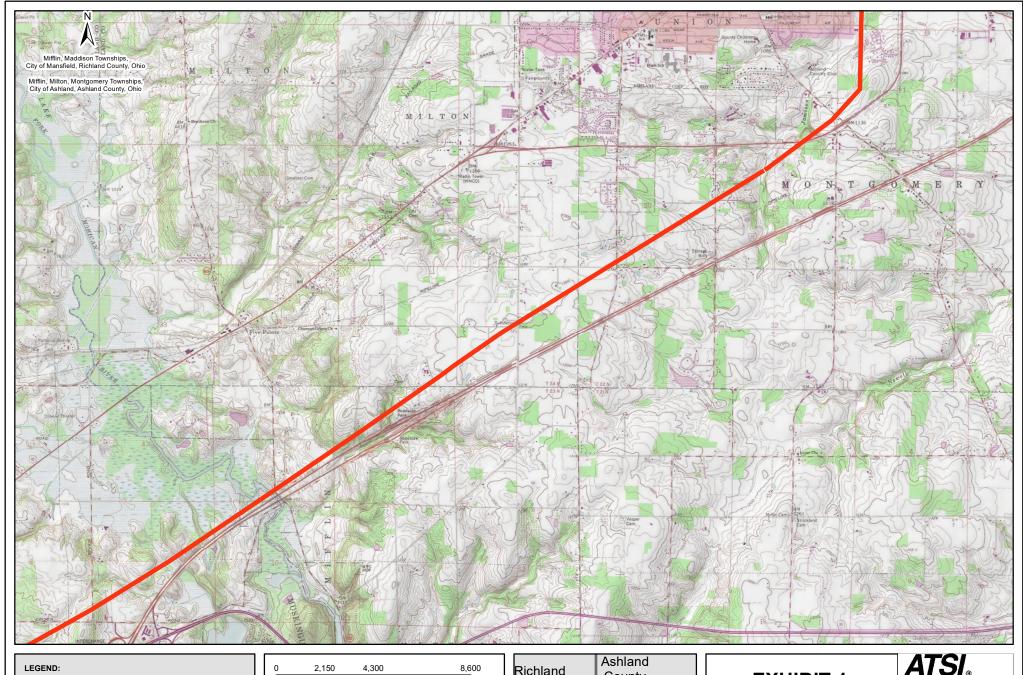


EXHIBIT 1

American Transmission Systems, Inc. a subsidiary of FirstEnergy Corp.

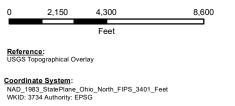
Brookside-Longview East 138 kV Transmission Line, Brookside-Madison 138 kV Transmission Line, Longview-Madison 138 kV Transmission Line Structure Replacement Project

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Transmission Line



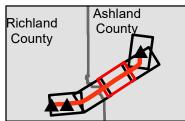
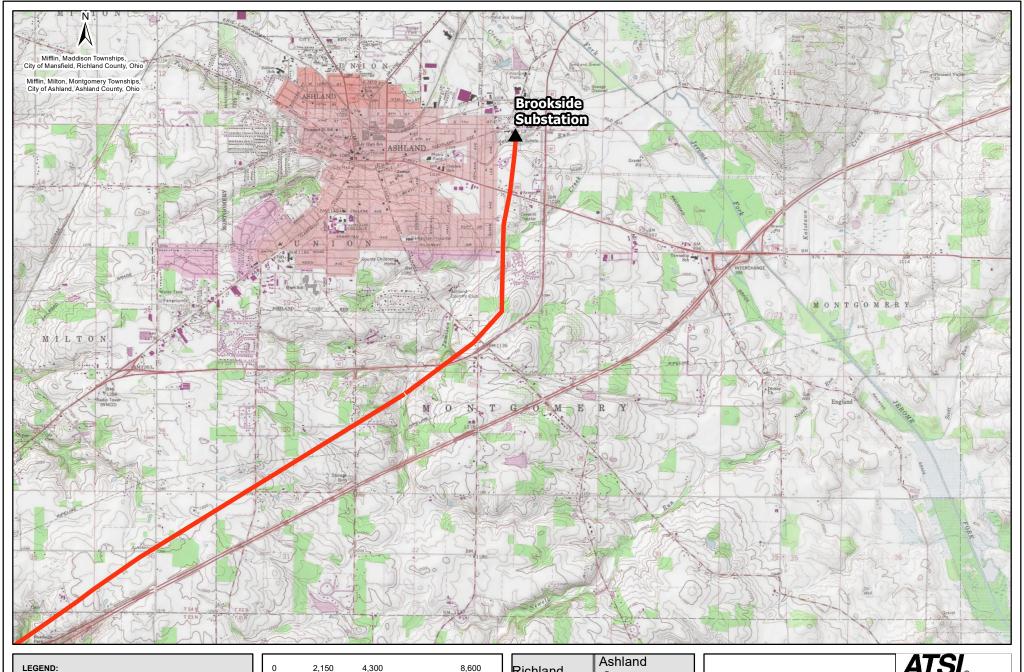


EXHIBIT 1

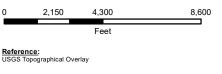
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Brookside-Longview East 138 kV Transmission Line, Brookside-Madison 138 kV Transmission Line, Longview-Madison 138 kV Transmission Line **Structure Replacement Project**

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Transmission Line



Coordinate System: NAD_1983_StatePlane_Ohio_North_FIPS_3401_Feet WKID: 3734 Authority: EPSG

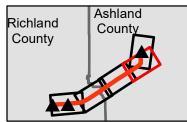
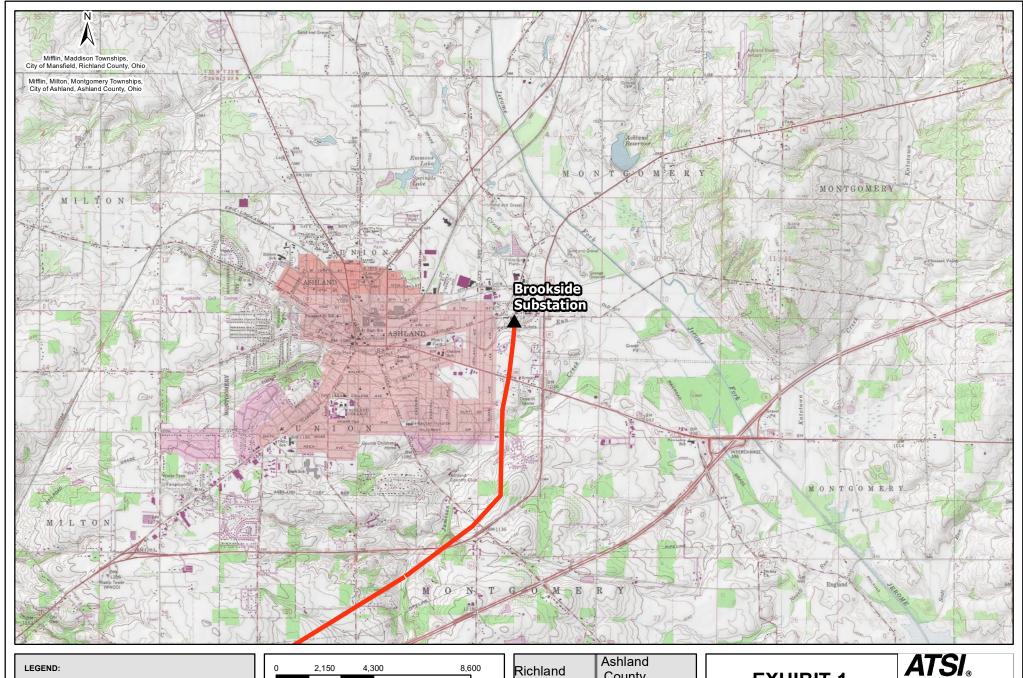


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Brookside-Longview East 138 kV Transmission Line, Brookside-Madison 138 kV Transmission Line, Longview-Madison 138 kV Transmission Line **Structure Replacement Project**

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Transmission Line

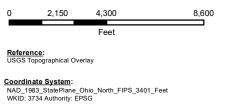


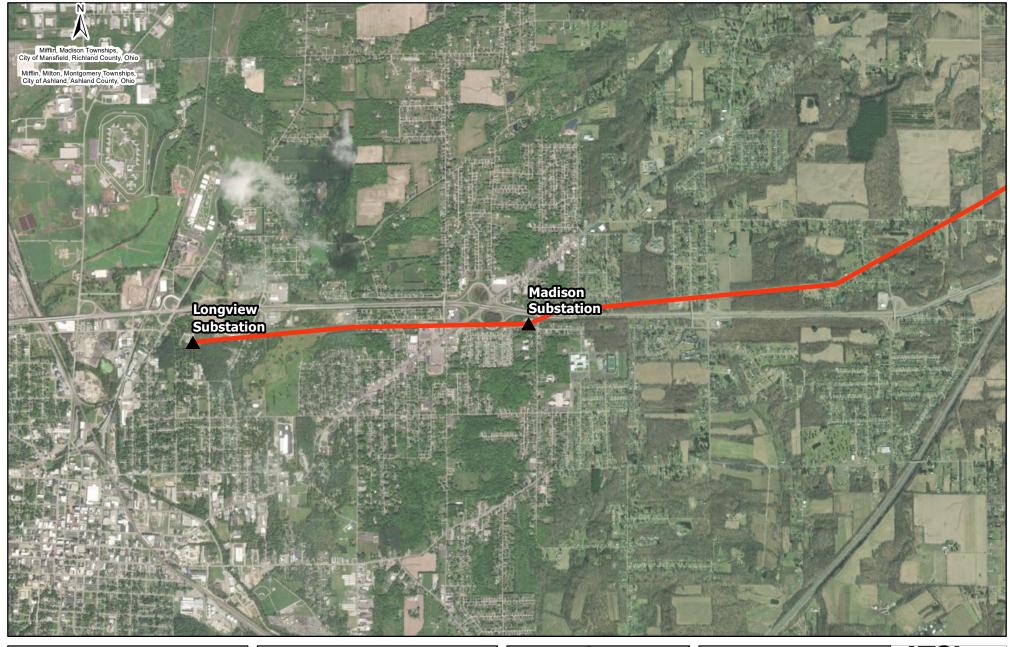


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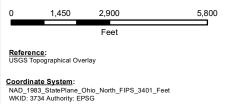
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Transmission Line



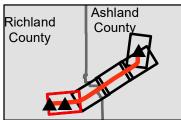


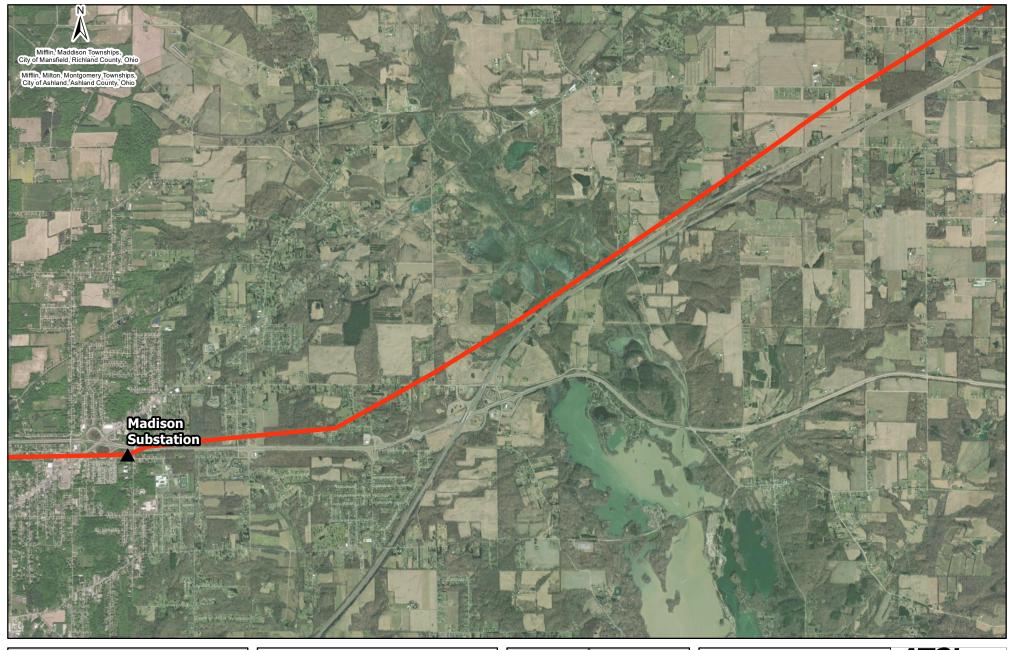
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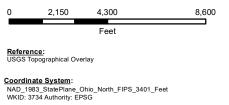
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Transmission Line



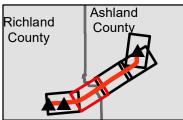


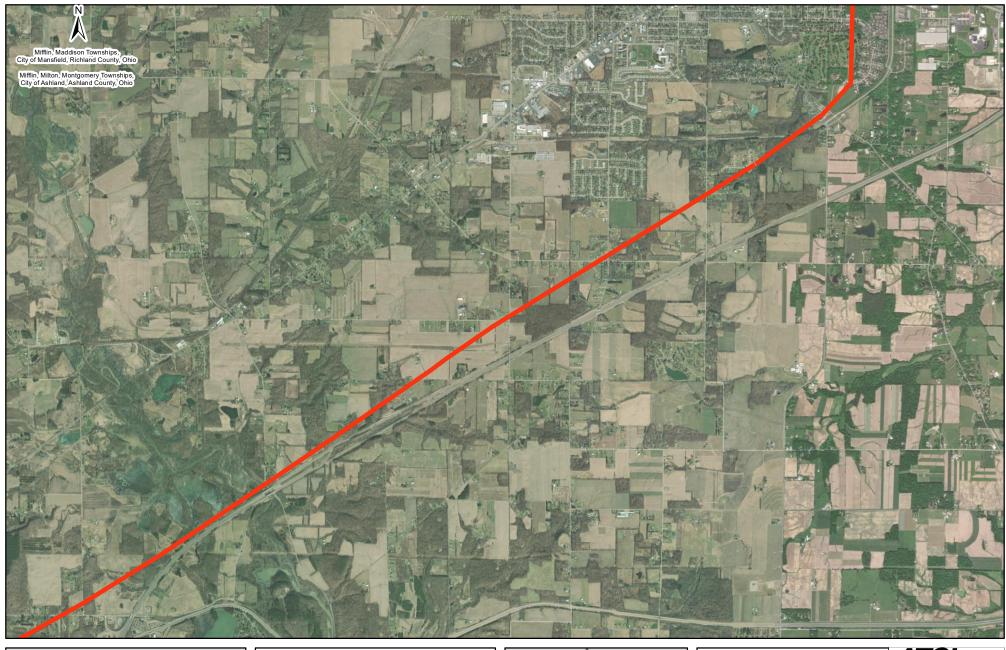
EXHIBIT 2

ATSI_®

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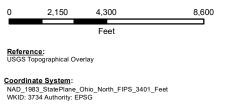
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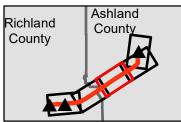


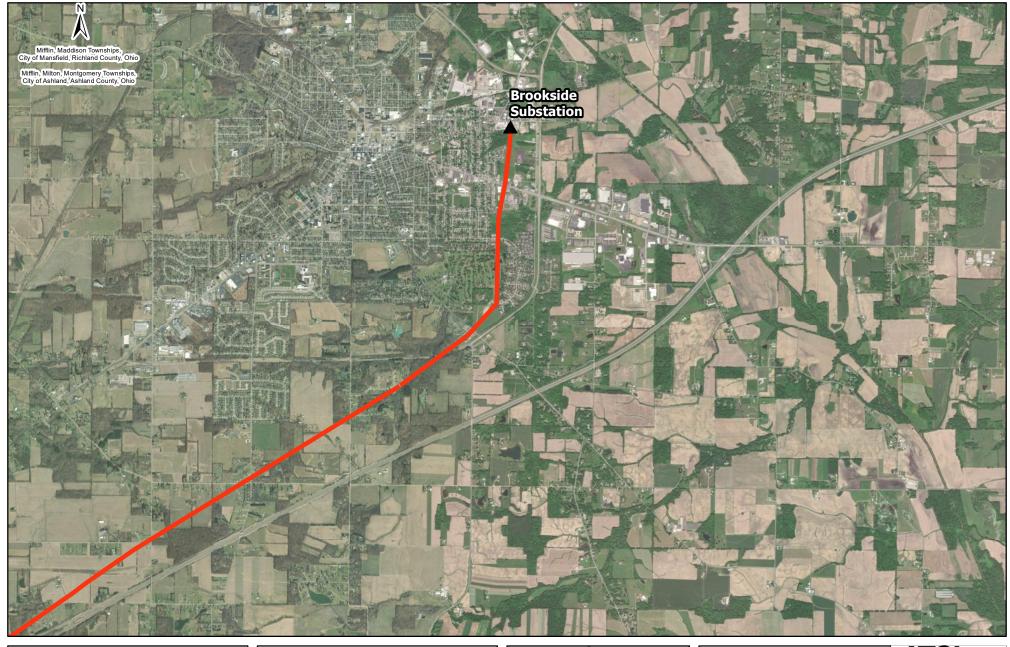
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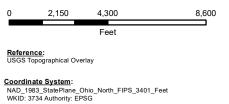
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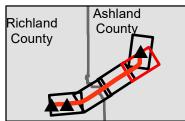


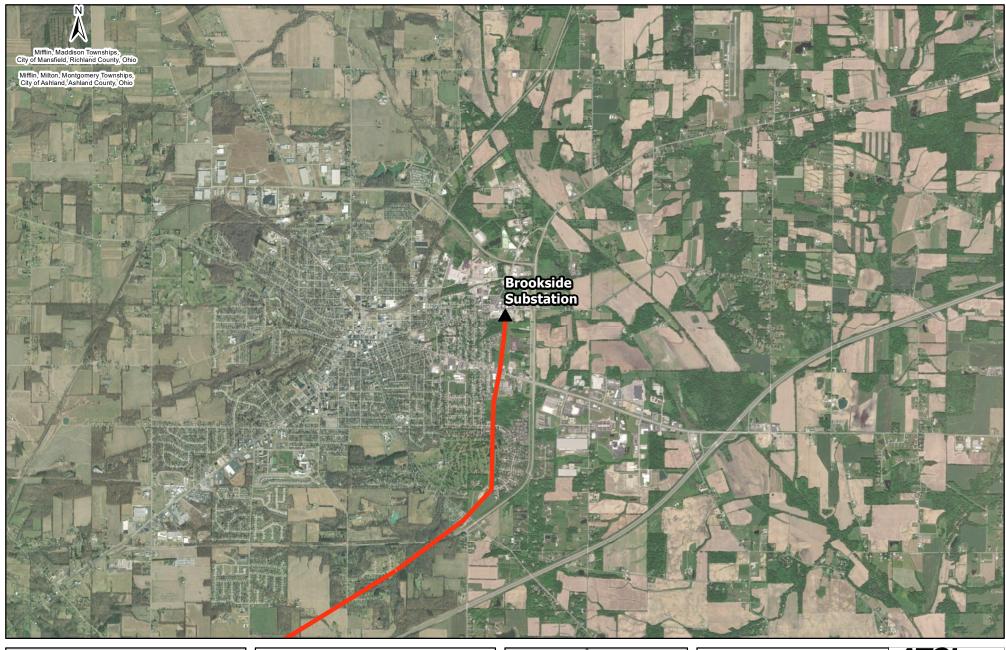
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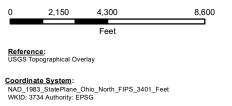
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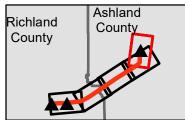


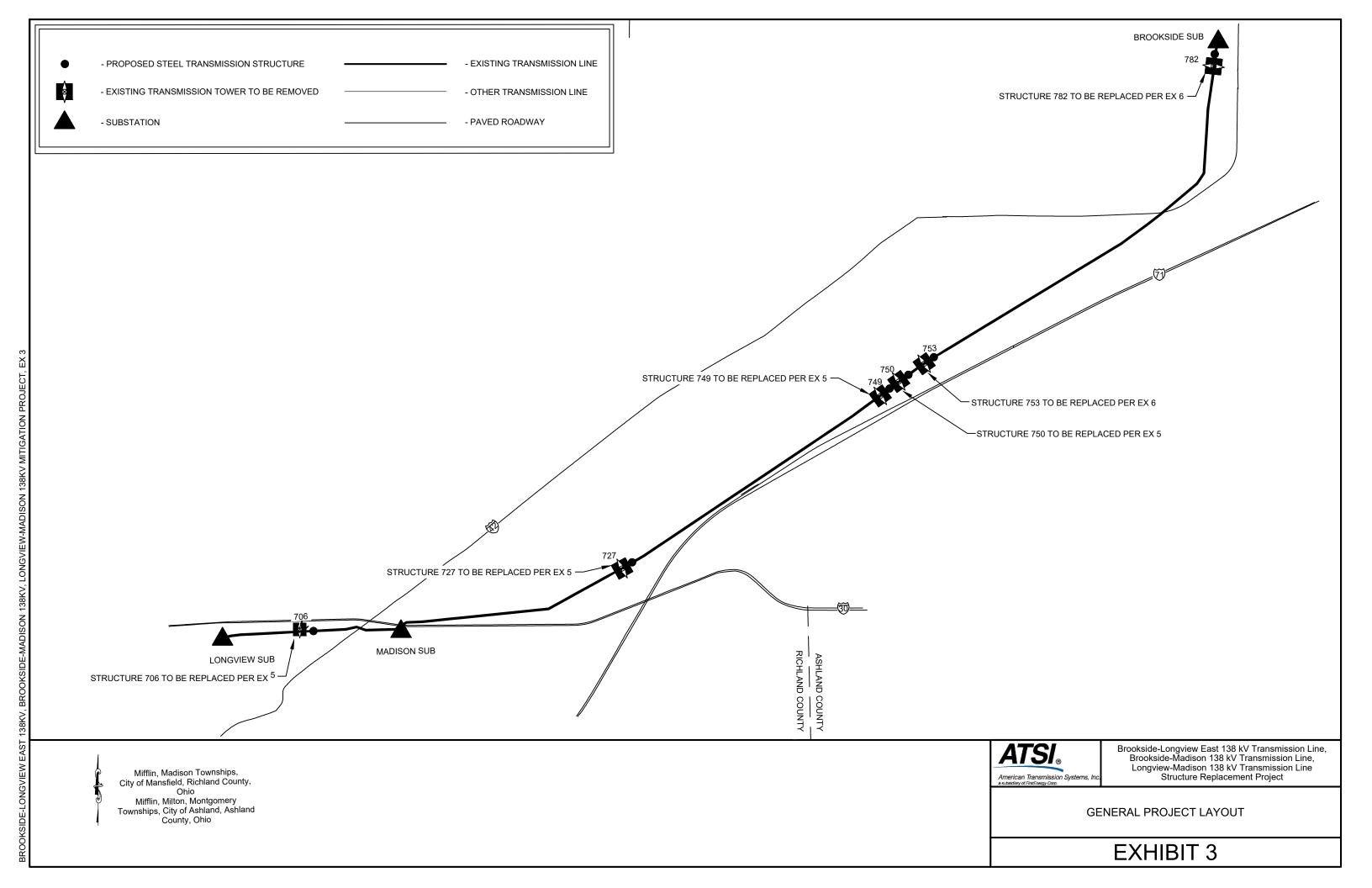
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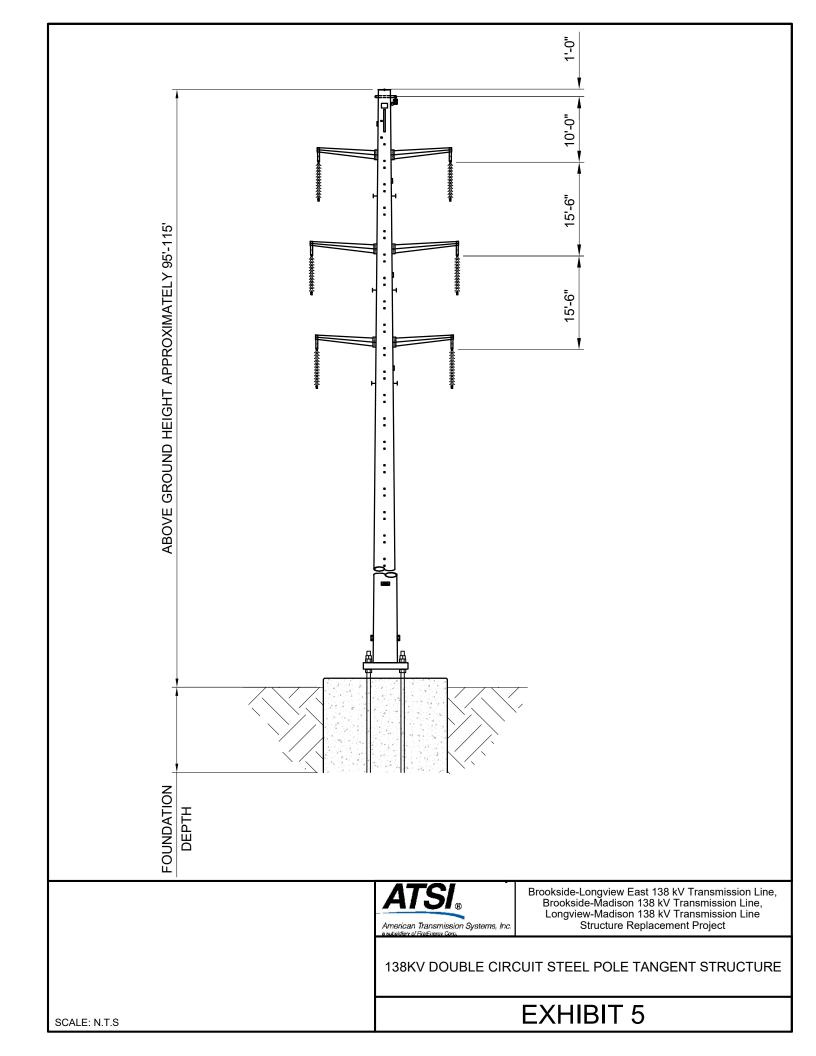
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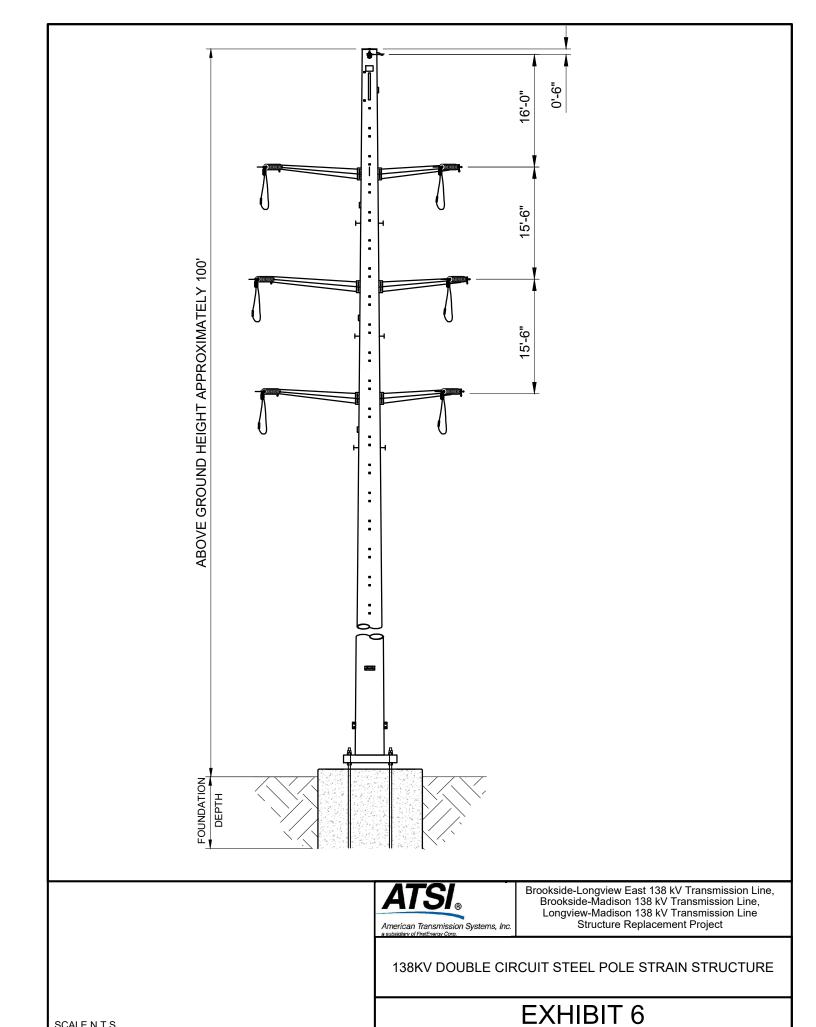
Page 5 of 5



APN	Acreage	Easement Status	Agricultural District (Yes/No)	Expiration Year		
	, <u> </u>					
028-90-041-08-000	26.45	Existing	No	N/A		
021-17-030-06-000	130.514	Existing	Yes	2028		
G22-035-0-0003-13	5.05	Existing	No	N/A		
G22-035-0-0003-01	102.3510	Existing	No	N/A		
G22-036-0-0015-01	19.3780	Existing	No	N/A		
125-029-0-0029-41	0.854	Existing	No	N/A		
125-029-0-0029-43	8.859	Existing	No	N/A		
P43-121-0-0005-03	14.739	Existing	No	N/A		

^{*}Note: This list of affected landowners is for "impacted" parcels only and the subject list is NOT for mailing purposes.





SCALE N.T.S



In reply refer to: 2024-ASD-62391

October 17, 2024

Justin McKissick, MA, RPA Project Archaeologist/Field Director TRC Environmental Corporation 317 E Carson Street, Suite 113 Pittsburgh, PA 15219

Email: JMcKissick@trccompanies.com

RE: Section 106 Review: Brookside-Madison ROW Assurance Project, Ashland and Richland

Counties, Ohio

Dear Mr. McKissick:

This letter is in response to the correspondence received on September 18, 2024, regarding the above reference project in Ashland and Richland Counties, Ohio. We appreciate the opportunity to comment on this project. The comments of the Ohio State Historic Preservation Office (SHPO) are made pursuant to Section 149.53 of the Ohio Revised Code (O.R.C.) and the Ohio Power Siting Board rules for siting this project. The comments of the Ohio SHPO are also submitted in accordance with the provisions of Section 106 of the National Historic Preservation Act of 1966, as amended (54 U.S.C. 306108 [36 CFR 800]).

The proposed project includes the service and replacement of existing structures and lines along the Brookside-Madison 138kV transmission line. Based on information submitted by you, which included a Project Summary Form, no historic properties, districts, or archaeological sites are located within the direct Area of Potential Effect (APE), as defined by you. New infrastructure will not exceed existing infrastructure height, and no new visual impacts are anticipated. Therefore, based on this information, it is the SHPO's opinion that no cultural resource studies are warranted for the project. Furthermore, as proposed, the project will have no effect on historic properties. No further coordination is required for this project unless the scope of work changes or archaeological remains are discovered during the course of the project. In such a situation, this office should be contacted. If you have any questions concerning this review, please contact me via email at sbiehl@ohiohistory.org. Thank you for your cooperation.

Stephe M. Biell

Stephen M. Biehl, Project Reviews Manager-Archaeology

Resource Protection and Review State Historic Preservation Office

RPR Serial No. 1104882



OHIO HISTORIC PRESERVATION OFFICE: RESOURCE PROTECTION AND REVIEW

Section 106 Review - Project Summary Form

For projects requiring a license from the Federal Communications Commission, please use FCC Forms 620 or 621. DO NOT USE THIS FORM.

SECTION 1: GENERAL PROJECT INFORMATION

All contact information provided must include the name, address and phone number of the person listed. Email addresses should also be included, if available. Please refer to the Instructions or contact an OHPO reviewer (mailto:Section106@ohiohistory.org) if you need help completing this Form. Unless otherwise requested, we will contact the person submitting this Form with questions or comments about this project.

Date: 09/17/2024

Name/Affiliation of person submitting form: Justin McKissick, MA, RPA

Mailing Address: 317 E. Carson Street, Suite 113, Pittsburgh, PA 15219

Phone/Fax/Email: 412.660.7937/jmckissick@trccompanies.com

A. Project Info:

1. This Form provides information about:

New Project Submittal:

YES

Additional information relating to previously submitted project: NO

OHPO/RPR Serial Number from previous submission:

- 2. Project Name (if applicable): Brookside-Madison ROW Assurance Project
- 3. Internal tracking or reference number used by Federal Agency, consultant, and/or applicant to identify this project (if applicable): **550808.0021.0000**

Project Address or vicinity: The Project Study Area is comprised of several sections along an existing utility line corridor with approximate centroids extending from the northeastern to southwestern areas as follows:

Section 1: 40.869206, -82.292549 Section 2: 40.840407, -82.310431 Section 3: 40.822249, -82.349601 Section 4: 40.820755, -82.352584 Section 5: 40.817000, -82.359892 Section 6: 40.814421, -82.364455 Section 7: 40.787392, -82.418005 Section 8: 40.785385, -82.411807

The proposed Project extends from just east of the City of Ashland to points just north and northwest of the intersection of Interstate 71 and U.S. Route 30 (Figure 1).

- B. City/Township: Mifflin Township in Richland County and the City of Ashland and Milton, Mifflin, and Montgomery Townships in Ashland County
- C. County: Richland and Ashland Counties
- D. Federal Agency and Agency Contact. If you do not know the federal agency involved in your project, please contact the party asking you to apply for Section 106 Review, not OHPO, for this information. HUD Entitlement Communities acting under delegated environmental review authority should list their own contact information. N/A
- E. Type of Federal Assistance. List all known federal sources of federal funding, approvals, and permits to avoid repeated reviews. **N/A**
- F. State Agency and Contact Person (if applicable): Ohio Power Siting Board (OPSB)
- G. Type of State Assistance: N/A
- H. Is this project being submitted at the direction of a state agency **solely** under Ohio Revised Code 149.53 or at the direction of a State Agency? *Answering yes to this question means that you are sure that <u>no</u> federal funding, permits or approvals will be used for any part of your project, and that you are seeking comments only under ORC 149.53.*

NO

- I. Public Involvement- Describe how the public has been/will be informed about this project and its potential to affect historic properties. Please summarize how they will have an opportunity to provide comments about any effects to historic properties. (This step is required for all projects under 36 CFR § 800.2):
- J. Please list other consulting parties that you have contacted/will contact about this project, such as Indian Tribes, Certified Local Governments, local officials, property owners, or preservation groups. (See 36 CFR § 800.2 for more information about involving other consulting parties). Please summarize how they will have an opportunity to provide comments: N/A

SECTION 2: PROJECT DESCRIPTION AND AREA OF POTENTIAL EFFECTS (APE)

Provide a description of your project, its site, and geographical information. You will also describe your project's Area of Potential Effects (APE). Please refer to the Instructions or contact an OHPO reviewer if you need help with developing the APE or completing this form.

For challenging projects, provide as much information as possible in all sections, and then check the box in Section 5.A. to ask OHPO to offer preliminary comments or make recommendations about how to proceed with your project consultation. This is recommended if your project involves effects to significant historic properties or if there may be challenging procedural issues related to your project. Please note that providing information to complete all Sections will still be required and that asking OHPO for preliminary comments may tend to delay completion of the review process for some projects.

A. Does this project involve any Ground-Disturbing activity: YES

(If **Yes**, you must complete all of Section 2.A. If **No**, proceed directly to Section 2. B.)

1. General description of width, length and depth of proposed ground disturbing activity:

The Limits of Disturbance (LOD), which corresponds to the Area of Potential Effects (APE) for direct effects, will be completely within the Project Study Area, which measures 27.79 acres (ac) in size (Figure 2). The minimal ground disturbance will be limited to the replacement of existing infrastructure at the location.

- 2. Narrative description of previous land use and past ground disturbances, if known: Historically, the landscape likely featured agricultural fields or wooded landscapes with regional development occurring predominately throughout the twentieth and into the twenty-first centuries.
 - 3. Narrative description of current land use and conditions:

The modern aerial imagery shows the current landscape comprised of semisuburban to rural terrain with the entire of Study Area situated within existing overhead utility line corridor, disturbed landscapes, or existing access roads. The Study Area crosses active agricultural fields, wooded landscapes, a golf course, and overgrown fields. General overview photographs are provided as Attachment 1.

- 4. Does the landowner know of any archaeological resources found on the property? YES NO If yes, please describe: **Unknown**
- B. Submit the exact project site location on a USGS 7.5-minute topographic quadrangle map for all projects. Map sections, photocopies of map sections, and online versions of USGS maps are acceptable as long as the location is clearly marked. Show the project's Area of Potential Effects (APE). It should be clearly distinguished from other features shown on the map:
 - 1. USGS Quad Map Name: Pavonia and Ashland South, OH
 - 2. Township/City/Village Name: Mifflin Township in Richland County and the City of Ashland and Milton, Mifflin, and Montgomery Townships in Ashland County
- C. Provide a street-level map indicating the location of the project site; road names must be identified and legible. Your map must show the exact location of the boundaries for the project site. Show the project's Area of Potential Effects (APE). It should be clearly distinguished from other features shown on the map: **See Figure 2**

D. Provide a verbal description of the APE, including a discussion of how the APE will include areas with the potential for direct and indirect effects from the project. Explain the steps taken to identify the project's APE, and your justification for the specific boundaries chosen:

The APE will correspond to the LOD, which will be entirely within the Study Area and will include all areas in which construction activities associated with the proposed Project will take place. The undertaking involves the service and replacement of structures on the Brookside-Madison 138kV line, as part of FirstEnergy's ROW Assurance Program. It is anticipated that all existing structures will be replaced in the same locations and new lines will be at the same height. The APE may also include a viewshed that will be based on LIDAR data, vegetation, topography, and buildings, which will reduce the APE to areas with positive visibility of the Project infrastructure within 0.25 mi of the undertaking. The new infrastructure will be at similar heights to the existing, therefore, no new visual impacts are anticipated.

E. Provide a detailed description of the project. This is a critical part of your submission. Your description should be prepared for a cold reader who may not be an expert in this type of project. The information provided must help support your analysis of effects to historic properties, not other types of project impacts. Do not simply include copies of environmental documents or other types of specialized project reports. If there are multiple project alternatives, you should include information about all alternatives that are still under active consideration:

The proposed Project will involve the service and replacement of structures on the Brookside-Madison 138kV line, as part of FirstEnergy's ROW Assurance Program. As currently proposed, no tree clearing is anticipated. The proposed Project Study Area consists of an existing utility ROW located within an area of existing industrial land use (Figure 2).

SECTION 3: IDENTIFICATION OF HISTORIC PROPERTIES

Describe whether there are historic properties located within your project APE. To make that determination, use information generated from your own Background Research and Field Survey. Then choose one of the following options to report your findings. Please refer to the Instructions and/or contact an OHPO reviewer if you are unsure about how to identify historic properties for your project.

A review of information received from the Ohio Historic Preservation Office's (OHPO's) Ohio History Connection (OHC) online mapping system files on September 10, 2024, was performed to identify the presence of previously recorded significant historic properties, including above-ground historic resources and/or archeological sites, that are mapped within one (1)-mile (mi) of the Study Area. See Figure 3.

The results of the search indicate two (2) National Register of Historic Places (NRHP) listed resources recorded within one (1)-mi of the proposed Project: the Ashland County Children's Home (Ref No.: SG100004059), located 0.78 mi north of Section 2 of the Study Area and the Arthur Street School (Ref No.: SG100006147), located 0.96 mi west of Section 1 of the Study Area.

In addition, there has been one (1) above-ground historic resource that has been recommended eligible for listing in the NRHP: the unnamed resource (DOE ID: 714) is mapped 0.77 mi southeast of Section 2 of the Study Area. There are an additional 27 above-ground historic resources recorded within one (1)-mi of the Study Area sections. The nearest of these resources is mapped 0.32 mi southeast of Section 1. There have been nine (9) Ohio Genealogical Society (OGS) cemeteries recorded within one (1)-mi of the Study Area: the nearest of which is situated 0.19 mi west of Section 6.

Fourteen (14) archaeological surveys have been conducted within one (1)-mi of the proposed Project. Through these surveys and efforts of local collectors, 23 archaeological sites have been mapped within one (1)-mi of the Study Area. The sites include 18 pre-contact sites, two (2) historic sites, and three (3) multi-component historic and pre-contact sites. Three (3) of the pre-contact sites and one (1) historic site are documented as open isolated finds. The remaining pre-contact and pre-contact component sites are open sites of unknown function with dates that include Early and Late Archaic, Early through Late Woodland, and Late Prehistoric Periods. The historic and historic component sites all date to the nineteenth and twentieth centuries. The nearest of the sites is situated 0.06 mi southeast of Section 2 and 0.08 mi northwest of Section 7.

A review of available historic maps was conducted to determine the presence of historic structures and buildings (50 years of age or older) and other possible historic features within or adjacent to the Study Area that may be impacted by the proposed Project. By 1856/1861, both Ashland and Richland Counties had been settled with residential buildings and farmland denoted primarily along the established roadways. In Ashland County, the City of Ashland was established and contained the densest population in the region (Attachment 2, Image 1). On the historic 1856/1861 map, the proposed Project crossed a number of parcels attributed to various owners, with no buildings denoted directly within the Study Area. Several parcels did have nearby structures mapped. In Richland County, the Study Area is recorded on three (3) parcels, of which one (1) contained recorded structures (Attachment 2, Image 2). Windsor, to the northwest, is the most populated area. The 1908 historic USGS shows an overall region that has remained relatively the same (Attachment 2, Images 3a and 3b). The City of Ashland displayed signs of growth as additional streets and structures are mapped. While several buildings are mapped in the area on the 1908 map, none are directly within the Study Area. Throughout the early and into the midtwentieth century, the region grew substantially as the regional population increased (Attachment 2, Image 4a and 4b). The City of Ashland continued to expand, as did the town of Windsor. Route 30 and Interstate 75 were constructed south of the Project and Charles Mill Lake was formed at the Ashland/Richland County border. Development continued throughout the mid to late twentieth century and into the twenty-first century. Overall, outside of the City of Ashland, the area has remained rural, comprised predominately of agricultural fields and pastures.

If you read the Instructions and you're still confused as to which reporting option best fits your project, or you are not sure if your project needs a survey, you may choose to skip this section, but provide as much supporting documentation as possible in all other Sections, then check the box in Section 5.A. to request preliminary comments from OHPO. After reviewing the information provided, OHPO will then offer comments as to which reporting option is best suited to document historic properties for your project. Please note that providing information to complete this Section will still be required and that asking OHPO for preliminary comments may tend to delay completion of the review process for some projects.

Recording the Results of Background Research and Field Survey:

- A. **Summary of discussions and/or consultation with OHPO** about this project that demonstrates how the Agency Official and OHPO have agreed that no Field Survey was necessary for this project (typically due to extreme ground disturbance or other special circumstances). Please <u>attach copies</u> of emails/correspondence that document this agreement. You must explain how the project's potential to affect both archaeological and historic resources were considered. **N/A**
- B. **A table that includes the minimum information** listed in the OHPO Section 106 Documentation Table (which is generally equivalent to the information found on an

inventory form). This information must be printed and mailed with the Project Summary Form. To provide sufficient information to complete this Section, you must also include summary observations from your field survey, background research and eligibility determinations for each property that was evaluated in the project APE. **N/A**

- C. OHI (Ohio Historic Inventory) or OAI (Ohio Archaeological Inventory) forms- New or updated inventory forms may be prepared using the OHI pdf form with data population capabilities, the Internet IForm, or typed on archival quality inventory forms. To provide sufficient information to complete this Section, you must include summary observations from your field survey and background research. You must also include eligibility determinations for each property that was evaluated in the project APE. N/A
- D. A historic or archaeological survey report prepared by a qualified consultant that meets professional standards. The survey report should meet the Secretary of the Interior's Standards and Guidelines for Identification and OHPO Archaeological Guidelines. You may also include new inventory forms with your survey or update previous inventory forms. To complete this section, your survey report must include summary observations from your field survey, background research and eligibility determinations for each property that was evaluated within the APE. **N/A**
- E. **Project Findings**. Based on the conclusions you reached in completing Section 3, please choose one finding for your project. There are (mark one):

 Historic Properties Present in the APE: **N/A**

No Historic Properties Present in the APE: N/A

SECTION 4: SUPPORTING DOCUMENTATION

This information must be provided for all projects.

- A. Photographs must be keyed to a street-level map and should be included as attachments to this application. Please label all forms, tables, and CDs with the date of your submission and project name, as identified in Section 1. You must present enough documentation to clearly show existing conditions at your project site and convey details about the buildings, structures or sites that are described in your submission. Faxed or photocopied photographs are not acceptable. See Instructions for more info about photo submissions or 36 CFR § 800.11 for federal documentation standards.
 - 1. Provide photos of the entire project site and take photos to/from historic properties from/towards your project site to support your determination of effect in Section 5. **See Attachment 1 Photographs**
 - 2. Provide current photos of all buildings/structures/sites described.
- B. Project plan, specifications, site drawings and any other media presentation that conveys detailed information about your project and its potential to affect historic properties.
- C. Copies or summaries of any comments provided by consulting parties or the public.

SECTION 5: DETERMINATION OF EFFECT

A. Request Preliminary Comments. For challenging projects, provide as much information as possible in previous sections and ask OHPO to offer preliminary comments or make recommendations about how to proceed with your project consultation. This is recommended if your project involves effects to significant historic properties, if the public has concerns about your project's potential to affect

historic properties, or if there may be challenging procedural issues related to your project. Please be aware that providing information in all Sections will still be required and that asking OHPO for preliminary comments may tend to delay completion of the review process for some projects.

- We request preliminary comments from OHPO about this project: YES
- 2. Please specify as clearly as possible the particular issues that you would like OHPO to examine for your project (for example- help with developing an APE, addressing the concerns of consulting parties, survey methodology, etc.):

Please review the provided information and respond with your determination relative to the potential effects to cultural resources, if any.

- B. **Determination of Effect.** If you believe that you have gathered enough information to conclude the Section 106 process, you may be ready to make a determination of effect and ask OHPO for concurrence, while considering public comments. Please select and mark one of the following determinations, then explain the basis for your decision on an attached sheet of paper:
 - **No historic properties will be affected** based on 36 CFR § 800.4(d) (1). Please explain how you made this determination:
 - **No Adverse Effect** [36 CFR § 800.5(b)] on historic properties. This finding cannot be used if there are no historic properties present in your project APE. Please explain why the Criteria of Adverse Effect, [36 CFR Part 800.5(a) (1)], were found not to be applicable for your project:
 - Adverse Effect [36 CFR § 800.5(d) (2)] on historic properties. Please explain why the criteria of adverse effect, [36 CFR Part 800.5(a) (1)], were found to be applicable to your project. You may also include an explanation of how these adverse effects might be avoided, reduced or mitigated:

Please send completed form and supporting documentation to our office through the section106@ohiohistory.org e-mail address. Note that file size is limited to 30 MB. The Ohio SHPO has a federally mandated review time of 30 calendar day. To check your submission was received and logged in for our review, please visit https://www.ohiohistory.org/preserve/state-historic-preservation-office/hpreviews/section-106-project-status.

REFERENCES

Nunan, Philip and H.S. Plumb

Nunan's Map of Ashland Co., Ohio. Published by Nunan Philip. Electronic document,

<u>chhttps://historicmapworks.com/Map/US/1638409/Ashland+County+1861/Ashland+County+1861/Ohio/</u>, accessed September 6, 2024.

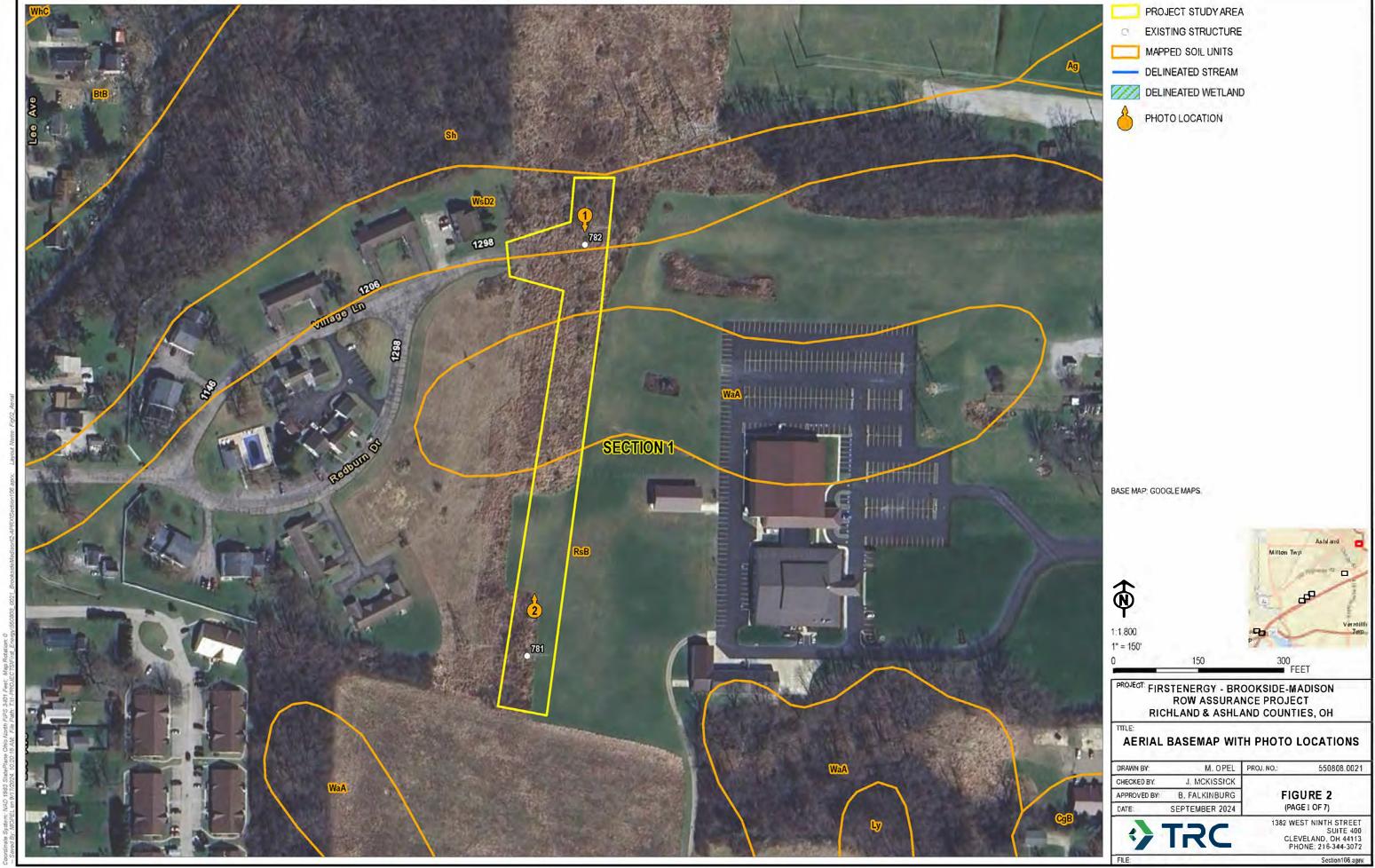
O'Beirne, P.

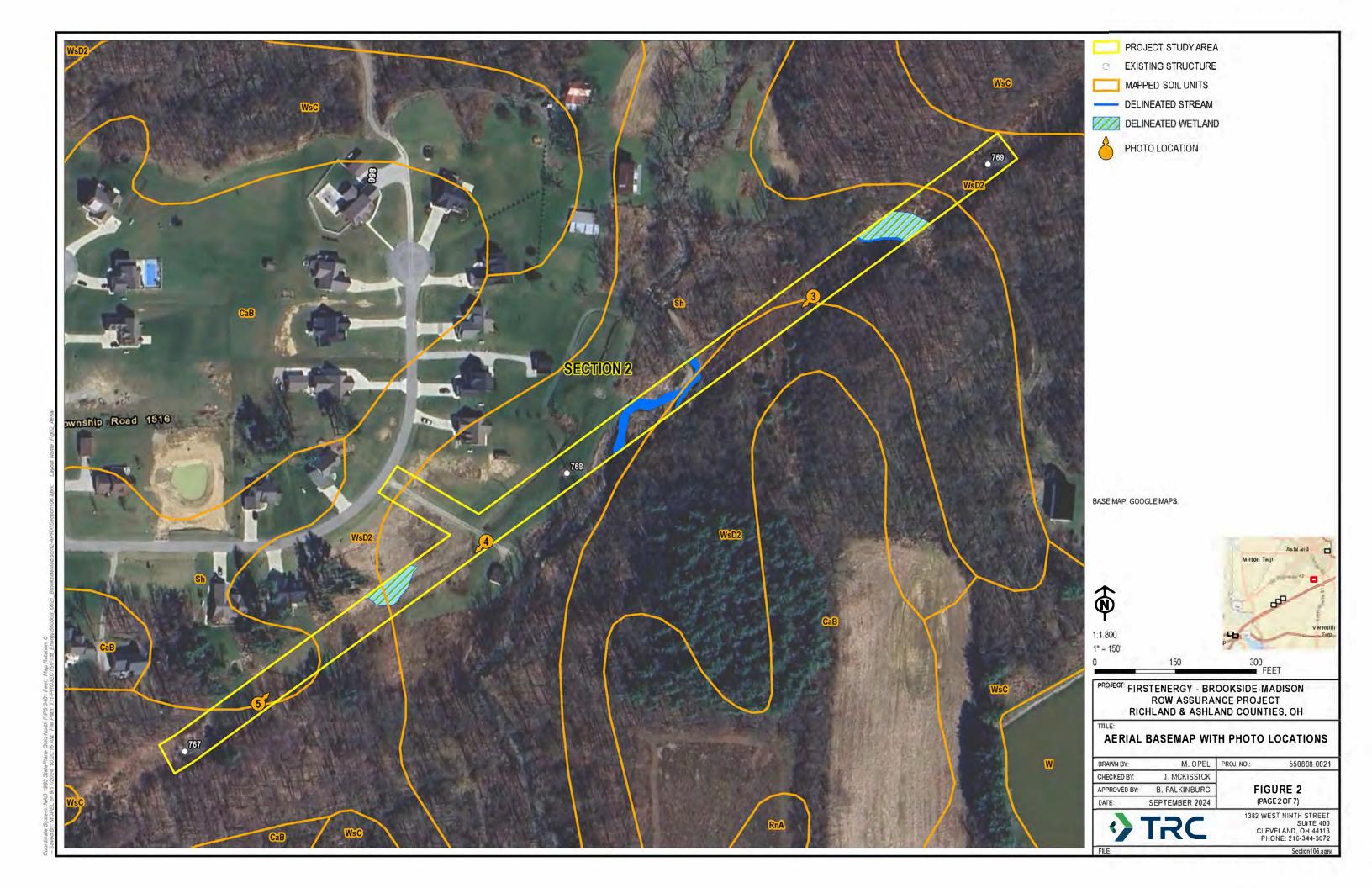
Map of Richland Co., Ohio. Published by Matthews and Taintor, Philadelphia, Pennsylvania. Electronic document, https://www.loc.gov/resource/g4083r.la000668/?r=0.552,0.165,0.431,0.27, 0, accessed September 6, 2024.

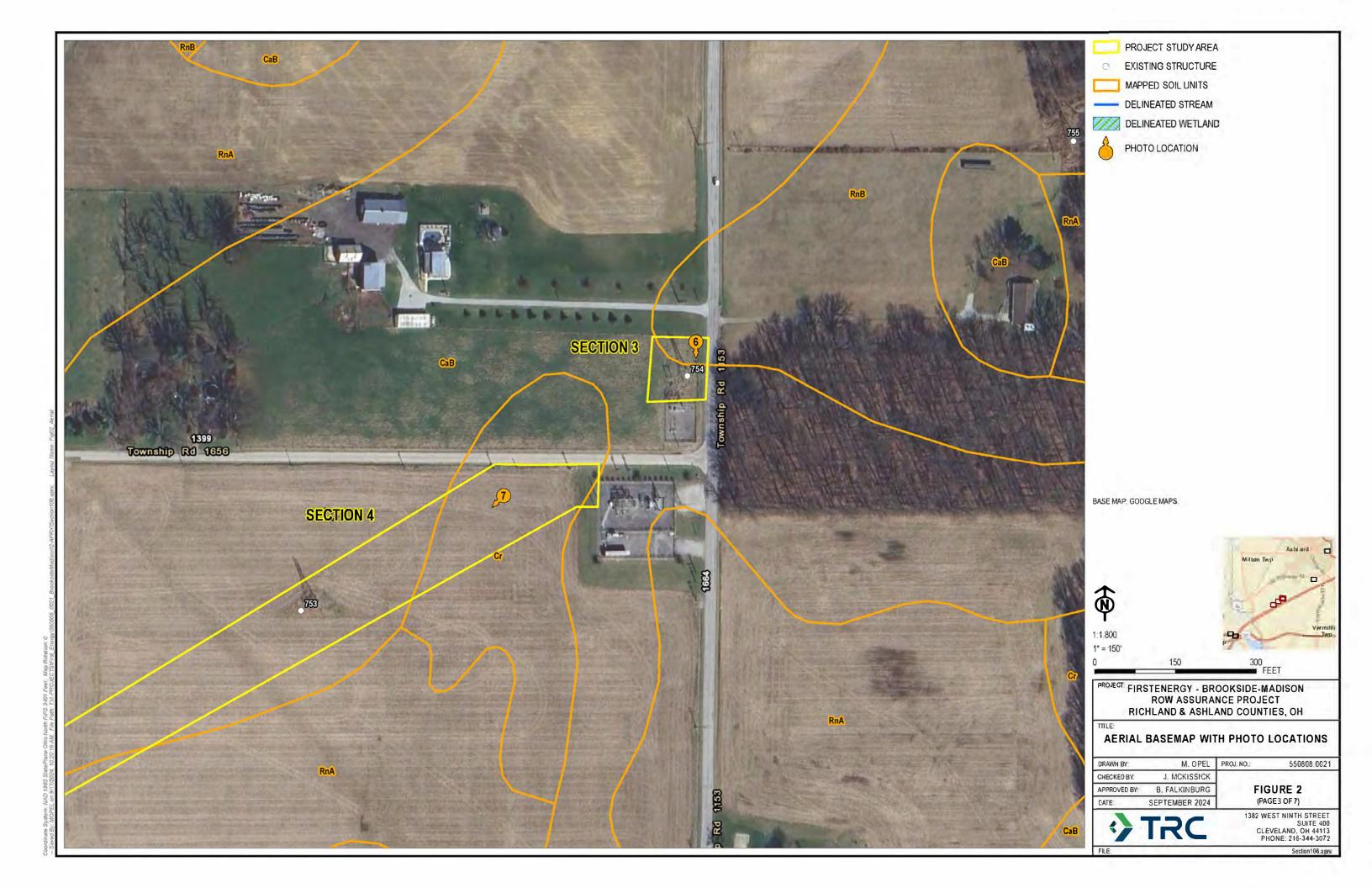
United States Geographical Survey

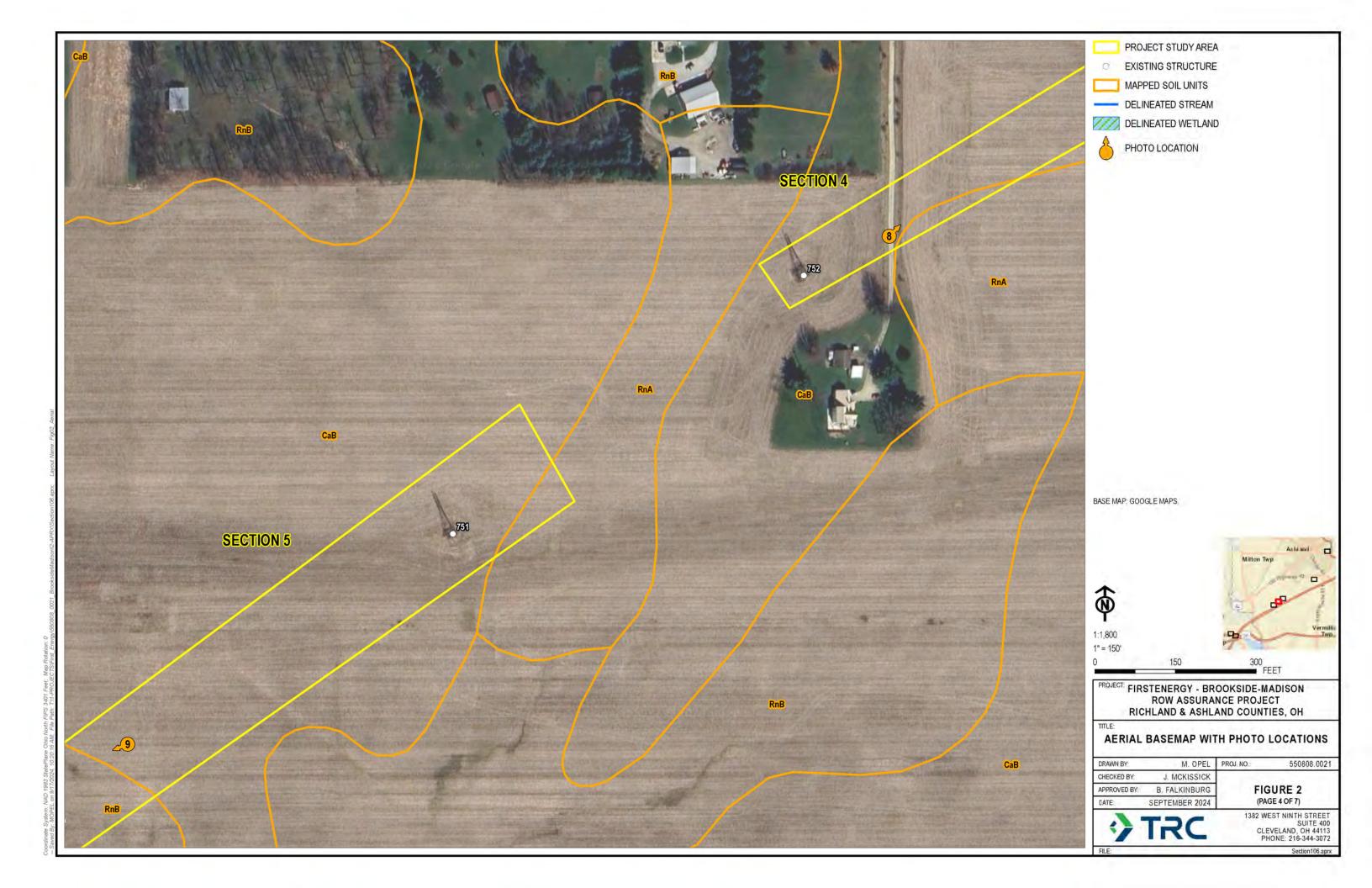
- 1908 Ashland *Defiance, OH*, 15-minute series topographic series. Electronic document, https://ngmdb.usgs.gov/topoview/viewer/#12/40.8606/-82.4093, accessed September 6, 2024.
- 1960 Pavonia, OH 7.5-minute series topographic series. Electronic document, https://ngmdb.usgs.gov/topoview/viewer/#12/40.8606/-82.4093, accessed September 6, 2024.
- 1961 Ashland South, OH 7.5-minute series topographic series. Electronic document, https://ngmdb.usgs.gov/topoview/viewer/#12/40.8606/-82.4093, accessed September 6, 2024.

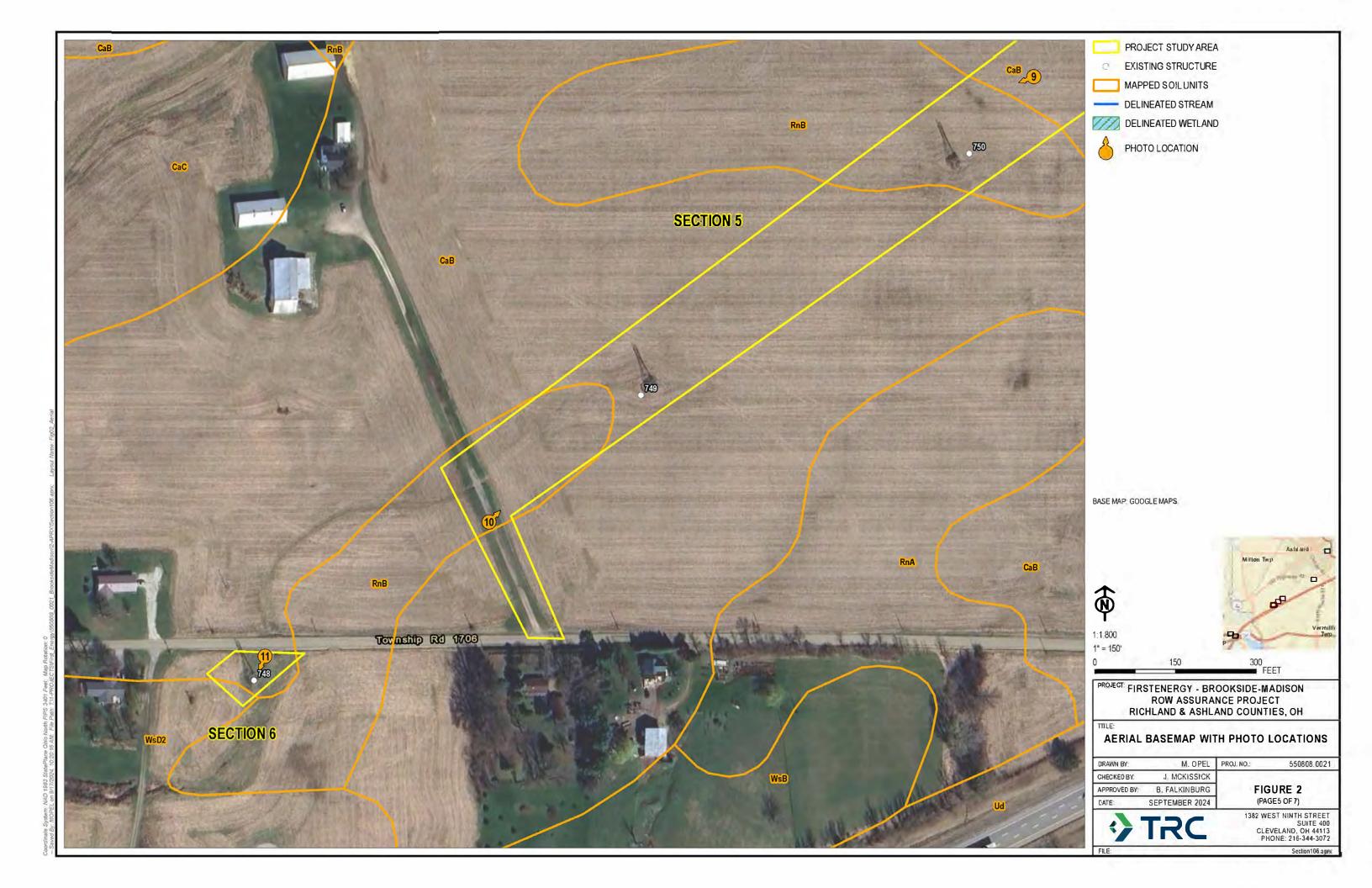
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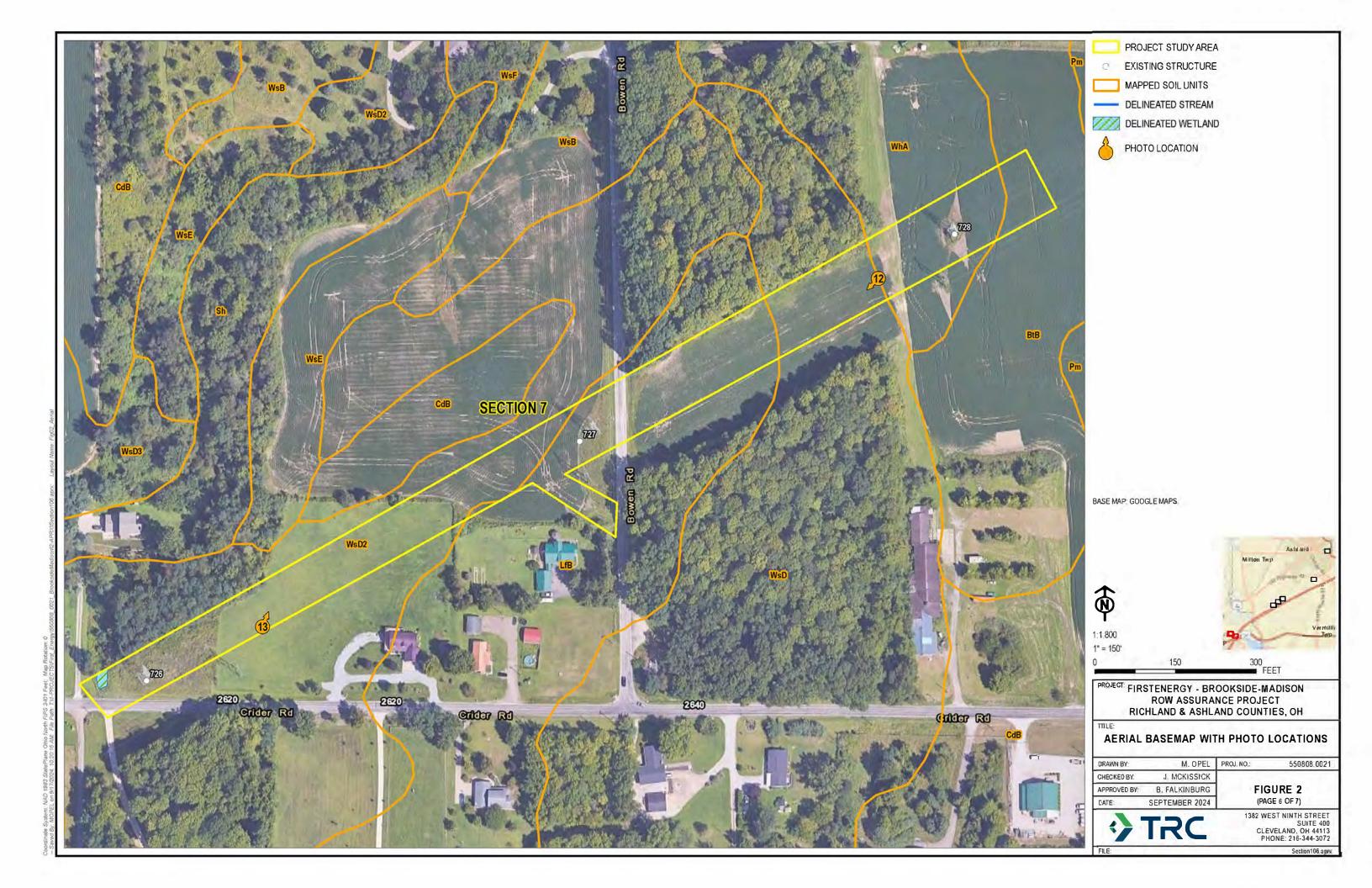


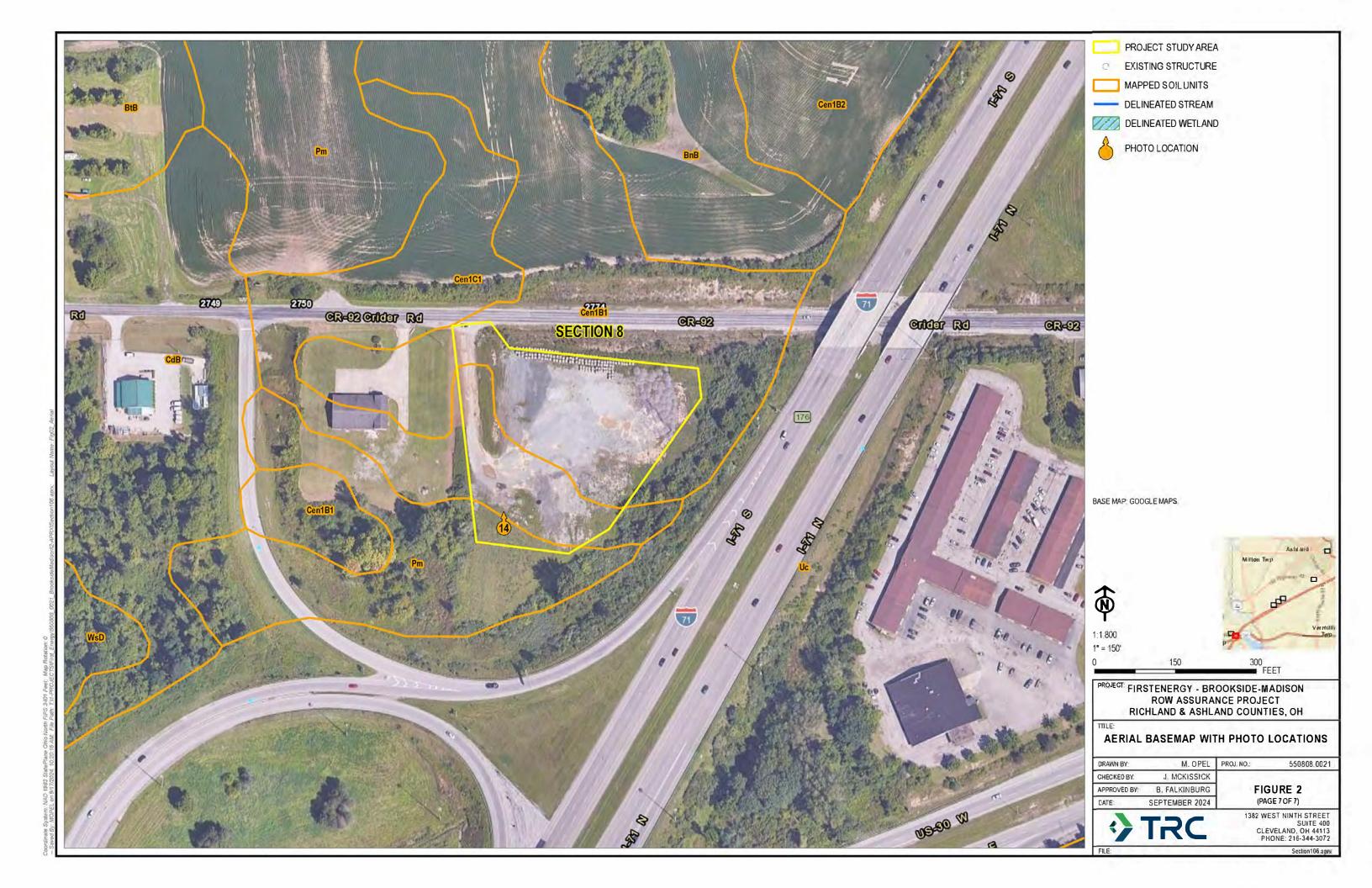


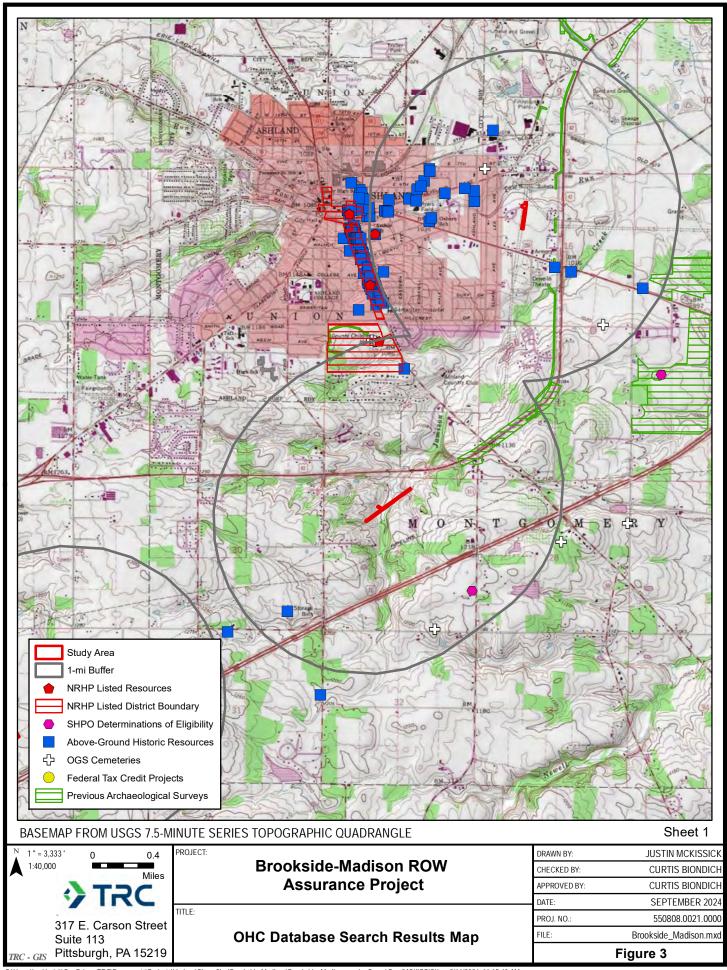


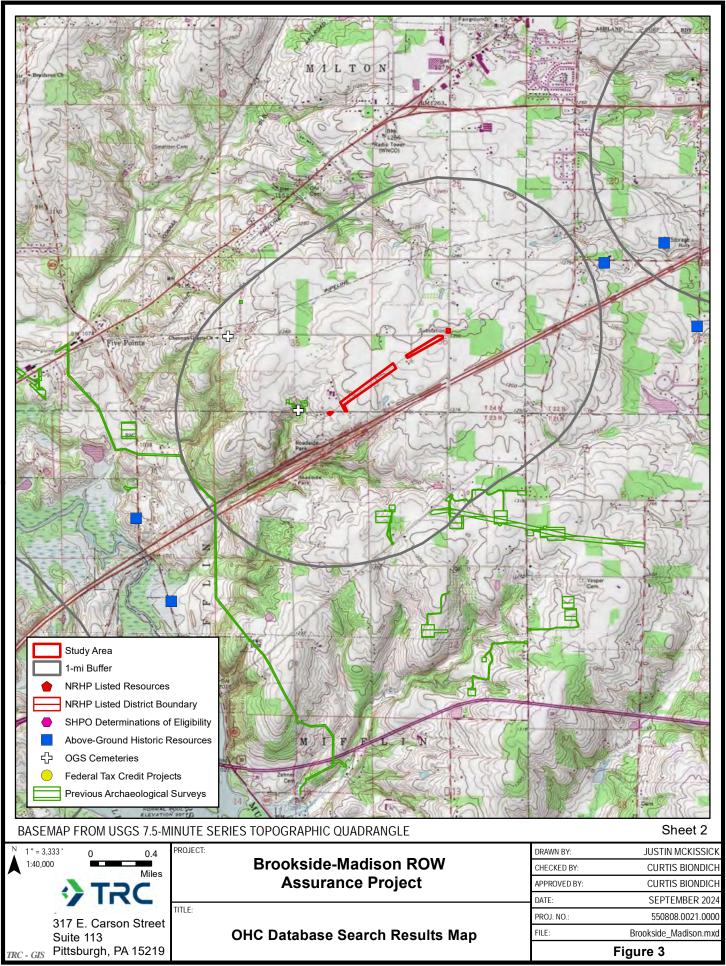


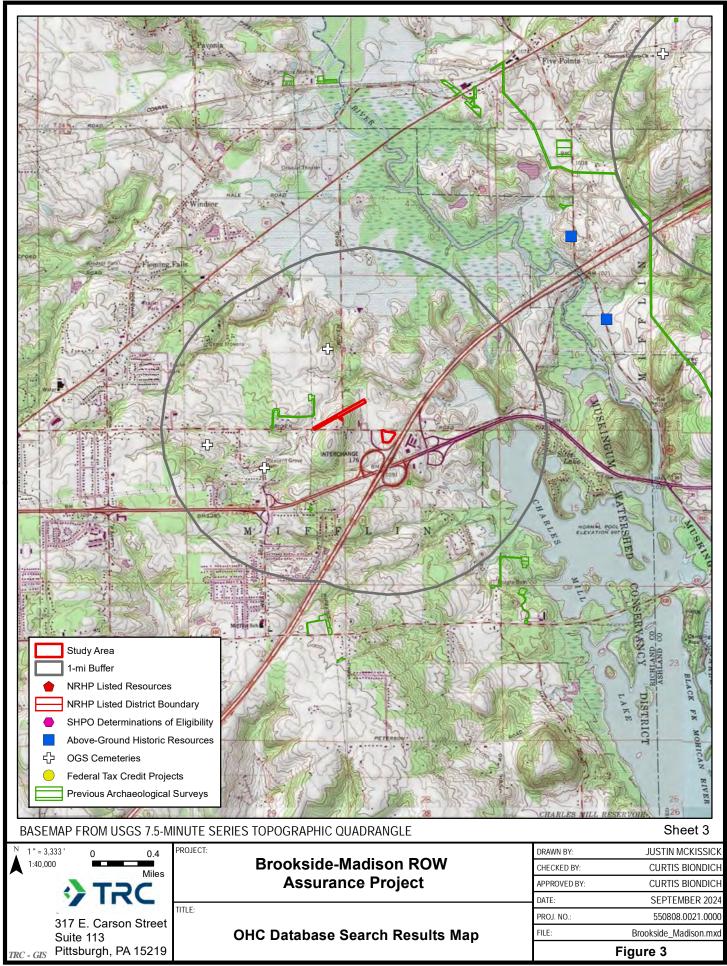














ATTACHMENT 1

Photographs





Client Name:

FirstEnergy

Site Location:

Mifflin Township in Richland County and the City of Ashland and Milton, Mifflin, and Montgomery Townships in Ashland County

Project No.

550808.0021.0000

Photo No. 1.

Photo Date: 09/12/2024

Description:

Overview of the northern portion of Section 1 within the Study Area, facing south.



Photo No. 2.

Photo Date: 09/12/2024

Description:

Overview of the southern portion of Section 1 within the Study Area, facing north.







Client Name:

FirstEnergy

Site Location:

Mifflin Township in Richland County and the City of Ashland and Milton, Mifflin, and Montgomery Townships in Ashland County

Project No.

550808.0021.0000

Photo No. 3.

Photo Date: 09/12/2024

Description:

Overview of the northeastern portion of Section 2 within the Study Area, facing southwest.



Photo No. 4.

Photo Date: 09/12/2024

Description:

Overview of the central portion of Section 2 within the Study Area, facing southwest.







Client Name:

FirstEnergy

Site Location:

Mifflin Township in Richland County and the City of Ashland and Milton, Mifflin, and Montgomery Townships in Ashland County

Project No.

550808.0021.0000

Photo No. 5.

Photo Date: 09/12/2024

Description:

Overview of the southwestern portion of Section 2 within the Study Area, facing northeast.



Photo No. 6.

Photo Date: 09/12/2024

Description:

Overview of Section 3 within the Study Area, facing south.







Client Name:

FirstEnergy

Site Location:

Mifflin Township in Richland County and the City of Ashland and Milton, Mifflin, and Montgomery Townships in Ashland County

Project No.

550808.0021.0000

Photo No. 7.

Photo Date: 09/12/2024

Description:

Overview of the northeastern portion of Section 4 within the Study Area, facing southwest.



Photo No. 8.

Photo Date: 09/12/2024

Description:

Overview of the southwestern portion of Section 4 within the Study Area, facing northeast.







Client Name:

FirstEnergy

Site Location:

Mifflin Township in Richland County and the City of Ashland and Milton, Mifflin, and Montgomery Townships in Ashland County

Project No.

550808.0021.0000

Photo No. 9.

Photo Date: 09/12/2024

Description:

Overview of the northeastern portion of Section 5 within the Study Area, facing westsouthwest.



Photo No. 10.

Photo Date: 09/12/2024

Description:

Overview of the southwestern portion of Section 5 within the Study Area, facing northeast.







Client Name:

FirstEnergy

Site Location:

Mifflin Township in Richland County and the City of Ashland and Milton, Mifflin, and Montgomery Townships in Ashland County

Project No.

550808.0021.0000

Photo No. 11.

Photo Date: 09/12/2024

Description:

Overview of Section 6 within the Study Area, facing south-southwest.



Photo No. 12.

Photo Date: 09/12/2024

Description:

Overview of the northeastern portion of Section 7 within the Study Area, facing southwest.







Client Name:

FirstEnergy

Site Location:

Mifflin Township in Richland County and the City of Ashland and Milton, Mifflin, and Montgomery Townships in Ashland County

Project No.

550808.0021.0000

Photo No. 13.

Photo Date: 09/12/2024

Description:

Overview of the southwestern portion of Section 7 within the Study Area, facing northnortheast.



Photo No. 14.

Photo Date: 09/12/2024

Description:

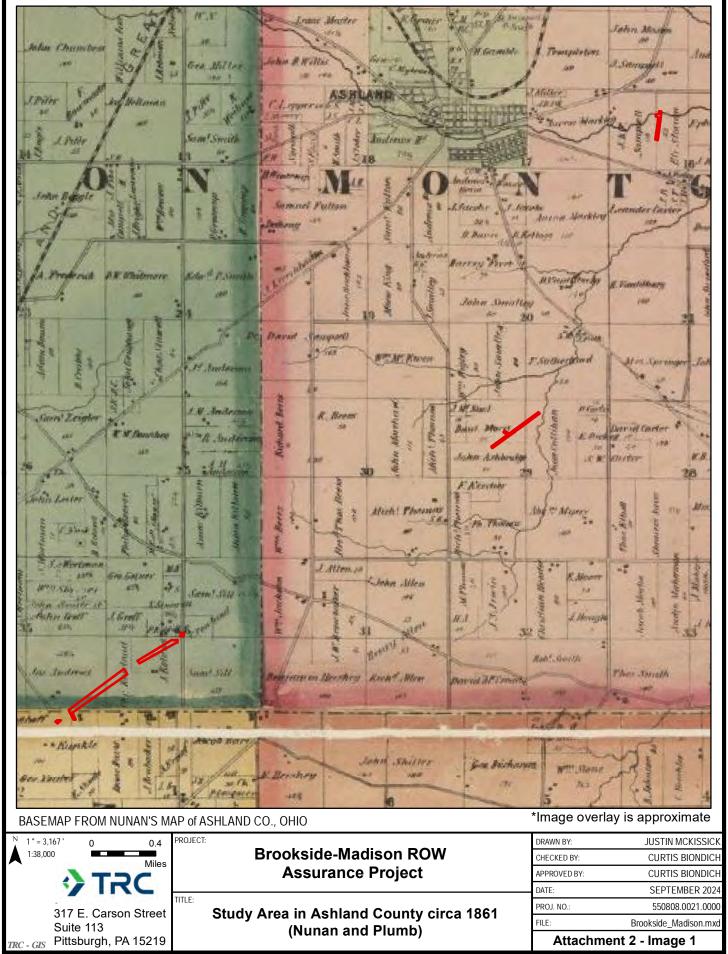
Overview of Section 8 within the Study Area, facing north.

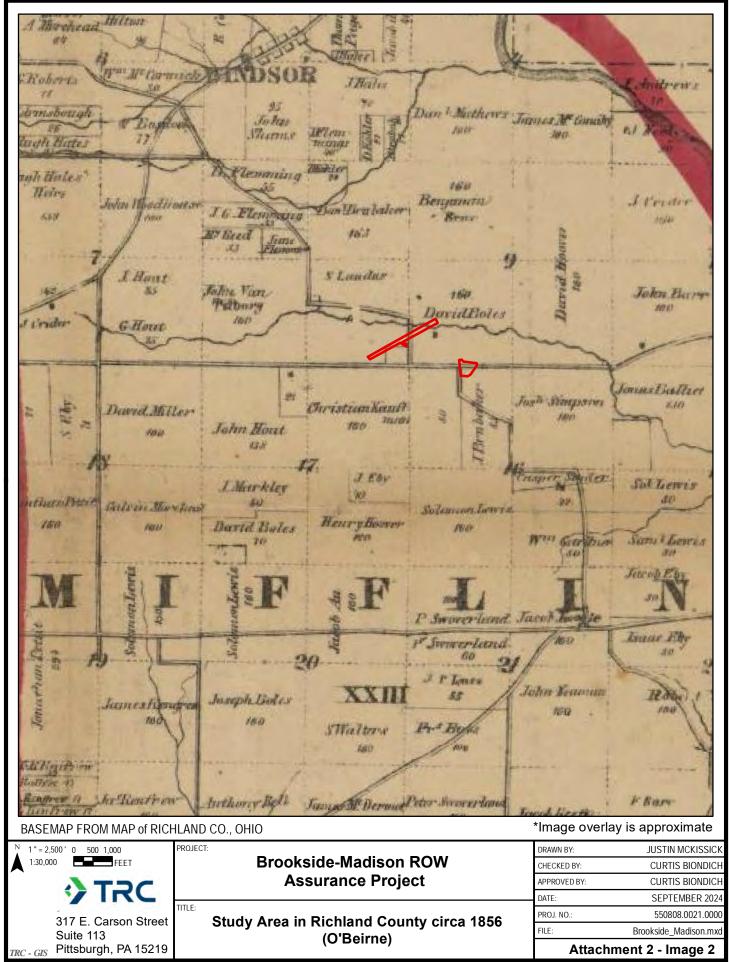


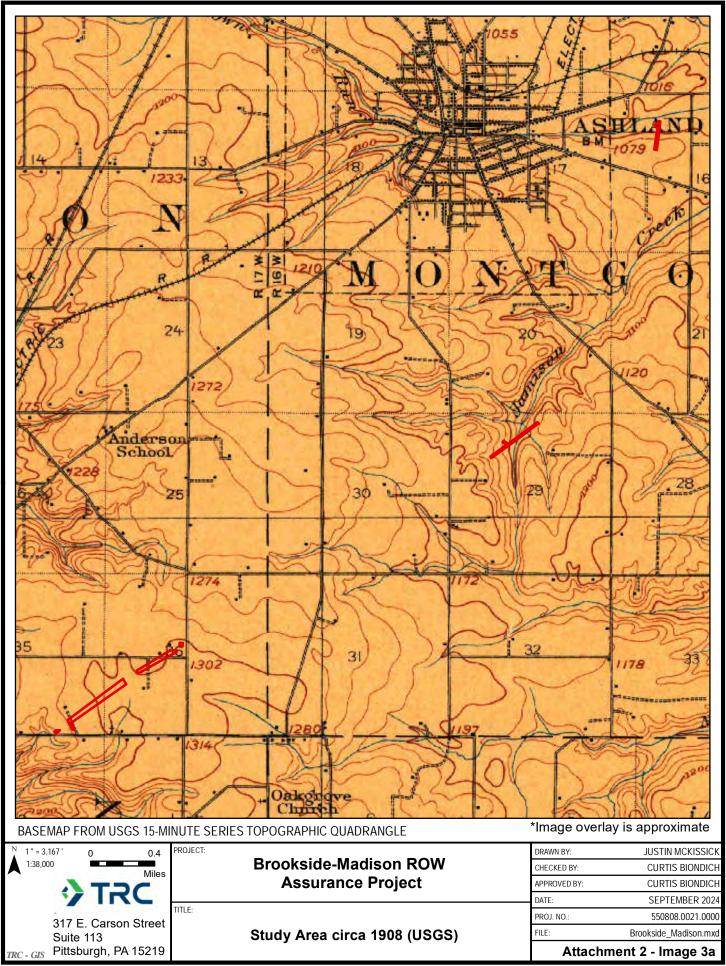


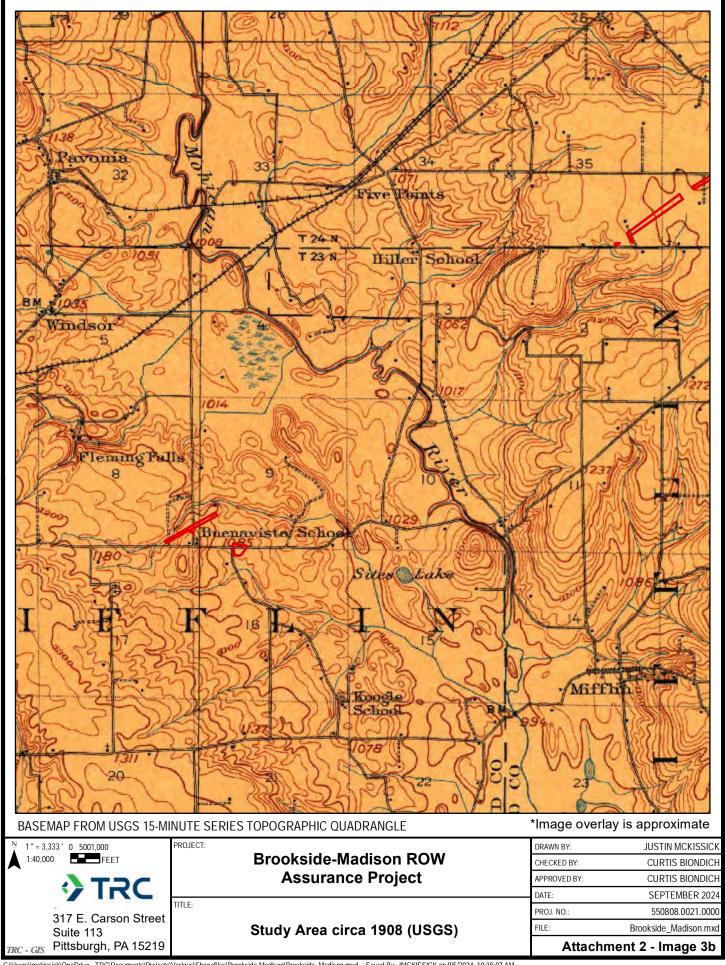
ATTACHMENT 2

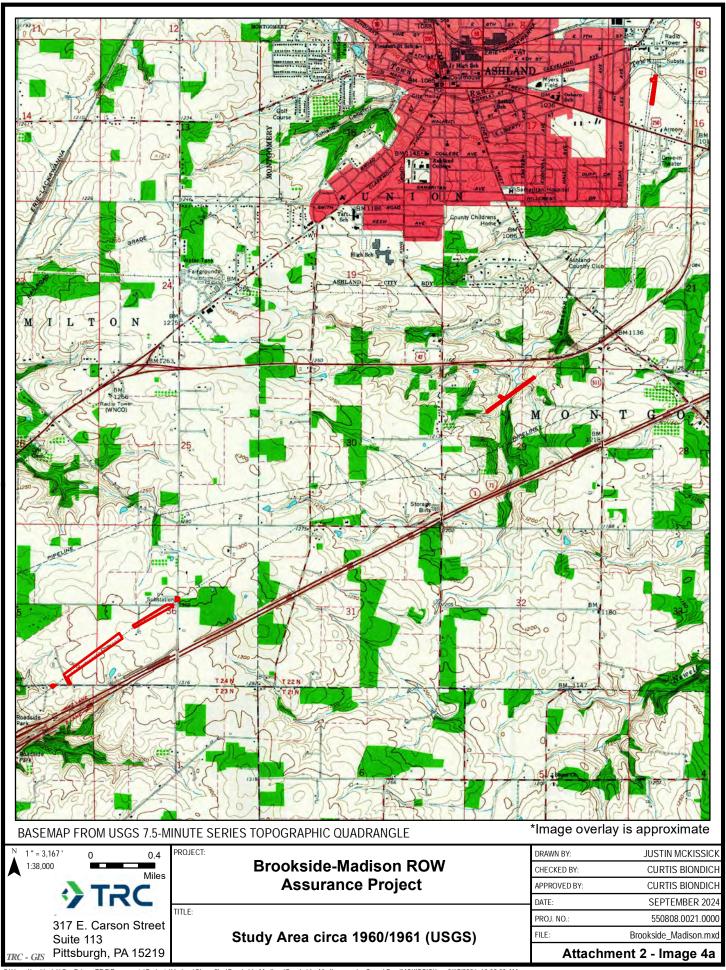
Historic Map Images

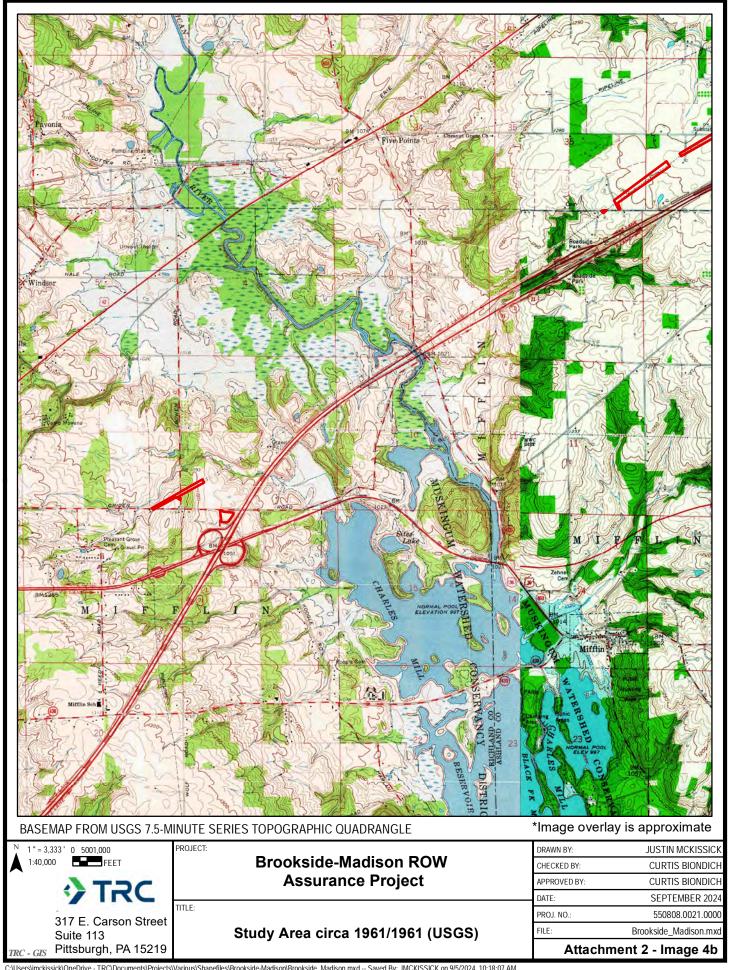














In reply refer to: 2024-RIC-62385

October 17, 2024

Justin McKissick, MA, RPA Project Archaeologist/Field Director TRC Environmental Corporation 317 E Carson Street, Suite 113 Pittsburgh, PA 15219

Email: <u>JMcKissick@trccompanies.com</u>

RE: Section 106 Review: Longview-Madison ROW Assurance Project, Mansfield and Madison Township, Richland County, Ohio

Dear Mr. McKissick:

This letter is in response to the correspondence received on September 17, 2024, regarding the above reference project in Richland County, Ohio. We appreciate the opportunity to comment on this project. The comments of the Ohio State Historic Preservation Office (SHPO) are made pursuant to Section 149.53 of the Ohio Revised Code (O.R.C.) and the Ohio Power Siting Board rules for siting this project. The comments of the Ohio SHPO are also submitted in accordance with the provisions of Section 106 of the National Historic Preservation Act of 1966, as amended (54 U.S.C. 306108 [36 CFR 800]).

The proposed project includes the service and replacement of existing structures along the Longview-Madison 138kV transmission line. Based on information submitted by you, which included a Project Summary Form, no historic properties, districts, or archaeological sites are located within the direct Area of Potential Effect (APE), as defined by you. New infrastructure will not exceed existing infrastructure height, and no new visual impacts are anticipated. Therefore, based on this information, it is the SHPO's opinion that no cultural resource studies are warranted for the project. Furthermore, as proposed, the project will have no effect on historic properties. No further coordination is required for this project unless the scope of work changes or archaeological remains are discovered during the course of the project. In such a situation, this office should be contacted. If you have any questions concerning this review, please contact me via email at sbiehl@ohiohistory.org. Thank you for your cooperation.

Sincerely,

Stephen M. Biehl, Project Reviews Manager-Archaeology

Resource Protection and Review State Historic Preservation Office

Stepher M. Biell

RPR Serial No. 1104876



OHIO HISTORIC PRESERVATION OFFICE: RESOURCE PROTECTION AND REVIEW

Section 106 Review - Project Summary Form

For projects requiring a license from the Federal Communications Commission, please use FCC Forms 620 or 621. <u>DO NOT USE THIS FORM</u>.

SECTION 1: GENERAL PROJECT INFORMATION

All contact information provided must include the name, address and phone number of the person listed. Email addresses should also be included, if available. Please refer to the Instructions or contact an OHPO reviewer (mailto:Section106@ohiohistory.org) if you need help completing this Form. Unless otherwise requested, we will contact the person submitting this Form with questions or comments about this project.

Date: 09/17/2024

Name/Affiliation of person submitting form: Justin McKissick, MA, RPA

Mailing Address: 317 E. Carson Street, Suite 113, Pittsburgh, PA 15219

Phone/Fax/Email: 412.660.7937/jmckissick@trccompanies.com

A. Project Info:

1. This Form provides information about:

New Project Submittal:

YES

Additional information relating to previously submitted project: NO

OHPO/RPR Serial Number from previous submission:

- 2. Project Name (if applicable): Longview-Madison ROW Assurance Project
- 3. Internal tracking or reference number used by Federal Agency, consultant, and/or applicant to identify this project (if applicable): **550808.0022.0000**

Project Address or vicinity: The Project Study Area is located south of U.S. Route 30 and west of the intersection of Illinois Avenue North and Duke Avenue in the City of Mansfield and Madison Township, Richland County (approximate centroid coordinates: 40.7774, -82.4851) (Figure 1).

- B. City/Township: City of Mansfield and Madison Township
- C. County: Richland County
- D. Federal Agency and Agency Contact. If you do not know the federal agency involved in your project, please contact the party asking you to apply for Section 106 Review, not OHPO, for this information. HUD Entitlement Communities acting under delegated environmental review authority should list their own contact information. N/A
- E. Type of Federal Assistance. List all known federal sources of federal funding, approvals, and permits to avoid repeated reviews. **N/A**
- F. State Agency and Contact Person (if applicable): Ohio Power Siting Board (OPSB)
- G. Type of State Assistance: N/A
- H. Is this project being submitted at the direction of a state agency **solely** under Ohio Revised Code 149.53 or at the direction of a State Agency? *Answering yes to this question means that you are sure that <u>no</u> federal funding, permits or approvals will be used for any part of your project, and that you are seeking comments only under ORC 149.53.*

NO

- I. Public Involvement- Describe how the public has been/will be informed about this project and its potential to affect historic properties. Please summarize how they will have an opportunity to provide comments about any effects to historic properties. (This step is required for all projects under 36 CFR § 800.2):
- J. Please list other consulting parties that you have contacted/will contact about this project, such as Indian Tribes, Certified Local Governments, local officials, property owners, or preservation groups. (See 36 CFR § 800.2 for more information about involving other consulting parties). Please summarize how they will have an opportunity to provide comments: N/A

SECTION 2: PROJECT DESCRIPTION AND AREA OF POTENTIAL EFFECTS (APE)

Provide a description of your project, its site, and geographical information. You will also describe your project's Area of Potential Effects (APE). Please refer to the Instructions or contact an OHPO reviewer if you need help with developing the APE or completing this form.

For challenging projects, provide as much information as possible in all sections, and then check the box in Section 5.A. to ask OHPO to offer preliminary comments or make recommendations about how to proceed with your project consultation. This is recommended if your project involves effects to significant historic properties or if there may be challenging procedural issues related to your project. Please note that providing information to complete all Sections will still be required and that asking OHPO for preliminary comments may tend to delay completion of the review process for some projects.

A. Does this project involve any Ground-Disturbing activity: YES

(If **Yes**, you must complete all of Section 2.A. If **No**, proceed directly to Section 2. B.)

1. General description of width, length and depth of proposed ground disturbing activity:

The Limits of Disturbance (LOD), which corresponds to the Area of Potential Effects (APE) for direct effects, will be completely within the Project Study Area, which measures 9.28 acres (ac) in size (Figure 2). The minimal ground disturbance will be limited to the replacement of existing infrastructure at the location.

- 2. Narrative description of previous land use and past ground disturbances, if known: Historically, the landscape likely featured agricultural fields or wooded landscapes with regional development occurring predominately throughout the twentieth and into the twenty-first centuries. The portion of the Project outside of the existing utility line is within a former automobile junkyard that appears to have operated throughout the late twentieth century into the early twenty-first century, ceasing operation sometime between April 2006 and July 2006. The utility line corridor portion of the Project has been maintained since its original construction in the mid-twentieth century.
 - 3. Narrative description of current land use and conditions:

The modern aerial imagery shows the current landscape comprised of a highly disturbed landscape of a former automobile junkyard and an existing overhead utility corridor. The surrounding regional landscape includes a high concentration of residential, commercial, and industrial properties surrounding a small pocket of open, overgrown fields and wooded areas. Agricultural fields are also present, over one (1) mi to the north, outside of the City of Mansfield limits. General overview photographs are provided as Attachment 1.

- 4. Does the landowner know of any archaeological resources found on the property? YES NO If yes, please describe: **Unknown**
- B. Submit the exact project site location on a USGS 7.5-minute topographic quadrangle map for all projects. Map sections, photocopies of map sections, and online versions of USGS maps are acceptable as long as the location is clearly marked. Show the project's Area of Potential Effects (APE). It should be clearly distinguished from other features shown on the map:
 - 1. USGS Quad Map Name: Pavonia, OH
 - 2. Township/City/Village Name: City of Mansfield/Madison Township in Richland County
- C. Provide a street-level map indicating the location of the project site; road names must be identified and legible. Your map must show the exact location of the boundaries for the project site. Show the project's Area of Potential Effects (APE). It should be clearly distinguished from other features shown on the map: **See Figure 2**
- D. Provide a verbal description of the APE, including a discussion of how the APE will include areas with the potential for direct and indirect effects from the project. Explain the steps taken to identify the project's APE, and your justification for the specific boundaries chosen:

The APE will correspond to the LOD, which will be entirely within the Study Area and will include all areas in which construction activities associated with the proposed Project will take place. The undertaking involves the service and replacement of

structures on the Longview-Madison 138kV line, as part of FirstEnergy's ROW Assurance Program. It is anticipated that all existing structures will be replaced in the same locations and new lines will be at the same height. The APE may also include a viewshed that will be based on LIDAR data, vegetation, topography, and buildings, which will reduce the APE to areas with positive visibility of the Project infrastructure within 0.25 mi of the undertaking. The new infrastructure will be at similar heights to the existing; therefore, no new visual impacts are anticipated.

E. Provide a detailed description of the project. This is a critical part of your submission. Your description should be prepared for a cold reader who may not be an expert in this type of project. The information provided must help support your analysis of effects to historic properties, not other types of project impacts. Do not simply include copies of environmental documents or other types of specialized project reports. If there are multiple project alternatives, you should include information about all alternatives that are still under active consideration:

The proposed Project will involve the service and replacement of structures on the Longview-Madison 138kV line, as part of FirstEnergy's ROW Assurance Program. As currently proposed, no tree clearing is anticipated. The proposed Project Study Area consists of a combination of an existing utility ROW and the disturbed landscape of a former automobile junkyard (Figure 2).

SECTION 3: IDENTIFICATION OF HISTORIC PROPERTIES

Describe whether there are historic properties located within your project APE. To make that determination, use information generated from your own Background Research and Field Survey. Then choose one of the following options to report your findings. Please refer to the Instructions and/or contact an OHPO reviewer if you are unsure about how to identify historic properties for your project.

A review of information received from the Ohio Historic Preservation Office's (OHPO's) Ohio History Connection (OHC) online mapping system files on September 10, 2024, was performed to identify the presence of previously recorded significant historic properties, including above-ground historic resources and/or archeological sites, that are mapped within one (1)-mile (mi) of the Study Area. See Figure 3.

The results of the search indicate two (2) NHRP-listed resources recorded within one (1)-mi of the Study Area: the Samuel Lewis House (Ref No.: 82003636), recorded 0.78 mi southeast of the Study Area and the Ohio State Reformatory (Ref No.: 83002039), located 0.77 mi northwest of the Study Area. There are an additional four (4) aboveground historic resources that have not yet been assessed for NRHP eligibility within one (1)-mi of the Study Area. The nearest of these is 0.82 mi to the southwest. A single Ohio Genealogical Society (OGS) cemetery is mapped 0.66 mi southwest of the western extent of the Study Area.

Two (2) archaeological surveys have been conducted within one (1)-mi of the proposed Project. One (1) of these surveys overlaps a small portion of the western extent of the Study Area. Through these surveys and efforts of local collectors, three (3) archaeological sites have been mapped within one (1)-mi of the Study Area. The sites include one (1) pre-contact site and two (2) historic sites. The pre-contact site is a Woodland Period open site of unknown function. The two (2) historic sites are residential and date to the nineteenth and twentieth centuries. The nearest of the sites is located 0.92 mi west of the western Study Area extent.

A review of available historic maps was conducted to determine the presence of historic structures and buildings (50 years of age or older) and other possible historic features within or adjacent to the Study Area that may be impacted by the proposed Project. By 1856, Richland County had been settled with residential buildings and

farmland denoted primarily along the established roadways (Attachment 2, Image 1). The proposed Project crosses a parcel attributed to A. G. Hetrick and contained no buildings. The City of Mansfield had been established southwest of the Study Area and had the densest population in the region. By 1873, the A.G. Hetrick parcel had been divided into several parcels with the Study Area situated on those attributed to Louis Vonhof, Cyrus Wallace, and Henry Hursh (Attachment 2, Image 2). Buildings were situated on all three (3) parcels; however, none are within or directly adjacent to the Study Area. Overall, the region displayed signs of growth as the population continued to increase. The City of Mansfield had increased in size as the regional population continued to increase. Overall, the region remained relatively rural through the turn of the century. In 1908/1915, a farmstead is first mapped east of the Project with buildings within the eastern Project extent that would eventually become the overhead utility line corridor. In addition, a new railroad line is first mapped north of the Study Area during the early twentieth century. Between 1908/1915 and 1960, significant development occurred throughout the area (Attachment 2, Image 4). The existing utility line had been constructed, as had U.S. Route 30 across the northern edge of the Study Area. Additionally, a number of new residential developments occurred as regional population increased. Development continued throughout the mid to late twentieth century and into the twenty-first century. Overall, outside of the City of Mansfield, the area has remained rural, comprised predominately of agricultural fields and pastures.

If you read the Instructions and you're still confused as to which reporting option best fits your project, or you are not sure if your project needs a survey, you may choose to skip this section, but provide as much supporting documentation as possible in all other Sections, then check the box in Section 5.A. to request preliminary comments from OHPO. After reviewing the information provided, OHPO will then offer comments as to which reporting option is best suited to document historic properties for your project. Please note that providing information to complete this Section will still be required and that asking OHPO for preliminary comments may tend to delay completion of the review process for some projects.

Recording the Results of Background Research and Field Survey:

- A. **Summary of discussions and/or consultation with OHPO** about this project that demonstrates how the Agency Official and OHPO have agreed that no Field Survey was necessary for this project (typically due to extreme ground disturbance or other special circumstances). Please <u>attach copies</u> of emails/correspondence that document this agreement. You must explain how the project's potential to affect both archaeological and historic resources were considered. **N/A**
- B. A table that includes the minimum information listed in the OHPO Section 106 Documentation Table (which is generally equivalent to the information found on an inventory form). This information must be printed and mailed with the Project Summary Form. To provide sufficient information to complete this Section, you must also include summary observations from your field survey, background research and eligibility determinations for each property that was evaluated in the project APE. **N/A**
- C. OHI (Ohio Historic Inventory) or OAI (Ohio Archaeological Inventory) forms- New or updated inventory forms may be prepared using the OHI pdf form with data population capabilities, the Internet IForm, or typed on archival quality inventory forms. To provide sufficient information to complete this Section, you must include summary observations from your field survey and background research. You must also include eligibility determinations for each property that was evaluated in the project APE. N/A
- D. A historic or archaeological survey report prepared by a qualified consultant that meets professional standards. The survey report should meet the Secretary of the Interior's

Standards and Guidelines for Identification and OHPO Archaeological Guidelines. You may also include new inventory forms with your survey or update previous inventory forms. To complete this section, your survey report must include summary observations from your field survey, background research and eligibility determinations for each property that was evaluated within the APE. **N/A**

E. **Project Findings**. Based on the conclusions you reached in completing Section 3, please choose one finding for your project. There are (mark one):

Historic Properties Present in the APE: N/A

No Historic Properties Present in the APE: N/A

SECTION 4: SUPPORTING DOCUMENTATION

This information must be provided for all projects.

- A. Photographs must be keyed to a street-level map and should be included as attachments to this application. Please label all forms, tables, and CDs with the date of your submission and project name, as identified in Section 1. You must present enough documentation to clearly show existing conditions at your project site and convey details about the buildings, structures or sites that are described in your submission. Faxed or photocopied photographs are not acceptable. See Instructions for more info about photo submissions or 36 CFR § 800.11 for federal documentation standards.
 - 1. Provide photos of the entire project site and take photos to/from historic properties from/towards your project site to support your determination of effect in Section 5. **See Attachment 1 Photographs**
 - 2. Provide current photos of all buildings/structures/sites described.
- B. Project plan, specifications, site drawings and any other media presentation that conveys detailed information about your project and its potential to affect historic properties.
- C. Copies or summaries of any comments provided by consulting parties or the public.

SECTION 5: DETERMINATION OF EFFECT

- A. Request Preliminary Comments. For challenging projects, provide as much information as possible in previous sections and ask OHPO to offer preliminary comments or make recommendations about how to proceed with your project consultation. This is recommended if your project involves effects to significant historic properties, if the public has concerns about your project's potential to affect historic properties, or if there may be challenging procedural issues related to your project. Please be aware that providing information in all Sections will still be required and that asking OHPO for preliminary comments may tend to delay completion of the review process for some projects.
 - We request preliminary comments from OHPO about this project: YES
 - 2. Please specify as clearly as possible the particular issues that you would like OHPO to examine for your project (for example- help with developing an APE, addressing the concerns of consulting parties, survey methodology, etc.):

Please review the provided information and respond with your determination

relative to the potential effects to cultural resources, if any.

- B. **Determination of Effect.** If you believe that you have gathered enough information to conclude the Section 106 process, you may be ready to make a determination of effect and ask OHPO for concurrence, while considering public comments. Please select and mark one of the following determinations, then explain the basis for your decision on an attached sheet of paper:
 - **No historic properties will be affected** based on 36 CFR § 800.4(d) (1). Please explain how you made this determination:
 - **No Adverse Effect** [36 CFR § 800.5(b)] on historic properties. This finding cannot be used if there are no historic properties present in your project APE. Please explain why the Criteria of Adverse Effect, [36 CFR Part 800.5(a) (1)], were found not to be applicable for your project:
 - Adverse Effect [36 CFR § 800.5(d) (2)] on historic properties. Please explain why the criteria of adverse effect, [36 CFR Part 800.5(a) (1)], were found to be applicable to your project. You may also include an explanation of how these adverse effects might be avoided, reduced or mitigated:

Please send completed form and supporting documentation to our office through the section106@ohiohistory.org e-mail address. Note that file size is limited to 30 MB. The Ohio SHPO has a federally mandated review time of 30 calendar day. To check your submission was received and logged in for our review, please visit https://www.ohiohistory.org/preserve/state-historic-preservation-office/hpreviews/section-106-project-status.

REFERENCES

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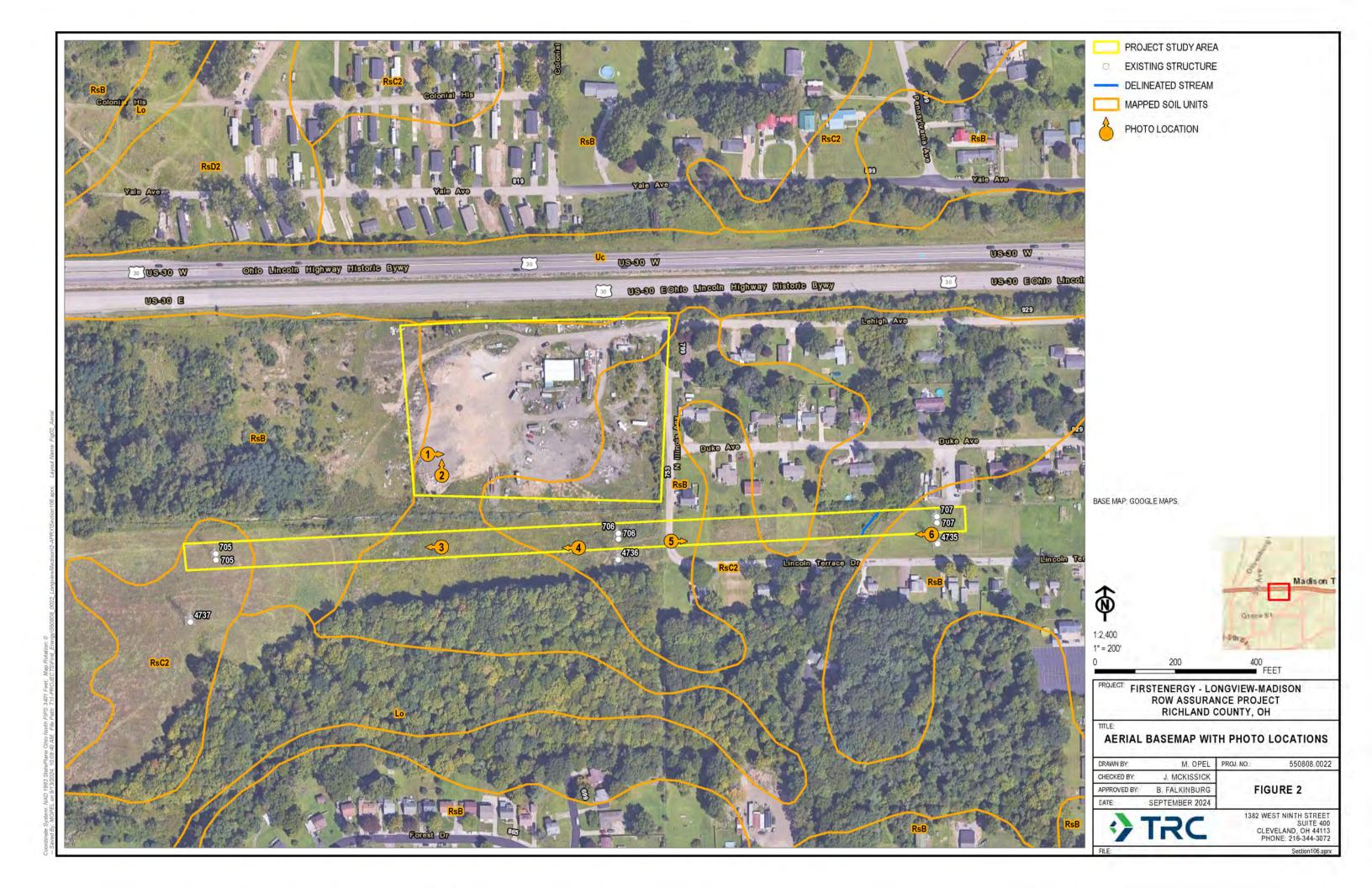
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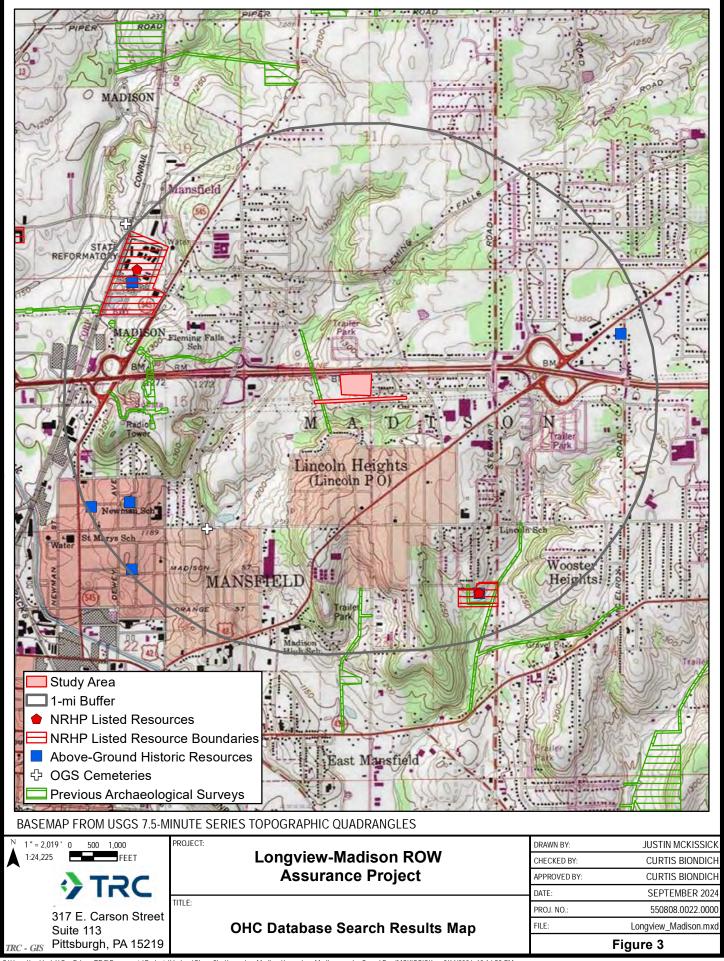
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- 1961 Ashland South, OH 7.5-minute series topographic series. Electronic document, https://ngmdb.usgs.gov/topoview/viewer/#12/40.8606/-82.4093, accessed September 6, 2024.







ATTACHMENT 1

Photographs



PHOTOGRAPHIC RECORD

Longview-Madison ROW Assurance Project

Client Name:

Site Location:

Project No.

FirstEnergy

City of Mansfield and Madison Township, Richland County, Ohio

550808.0022.0000

Photo No. 1.

Photo Date: 09/11/2024

Description:

Overview of the northern portion of the Study Area, facing east, showing existing disturbance.



Photo No. 2.

Photo Date: 09/11/2024

Description:

Overview of the northern portion of the Study Area, facing north, showing existing disturbance.





PHOTOGRAPHIC RECORD

Longview-Madison ROW Assurance Project

Client Name:

Site Location:

Project No.

FirstEnergy

City of Mansfield and Madison Township, Richland County, Ohio

550808.0022.0000

Photo No. 3.

Photo Date: 09/11/2024

Description:

Overview of the western portion of the existing utility corridor portion of the Study Area, facing west.



Photo No. 4.

Photo Date: 09/11/2024

Description:

Overview of the western portion of the existing utility corridor portion of the Study Area, facing west.





PHOTOGRAPHIC RECORD

Longview-Madison ROW Assurance Project

Client Name:

FirstEnergy

Site Location:

City of Mansfield and Madison Township, Richland County, Ohio

Project No. 550808.0022.0000

Photo No. 5.

Photo Date: 09/11/2024

Description:

Overview of the central portion of the existing utility corridor portion of the Study Area, facing east.



Photo No. 6.

Photo Date: 09/11/2024

Description:

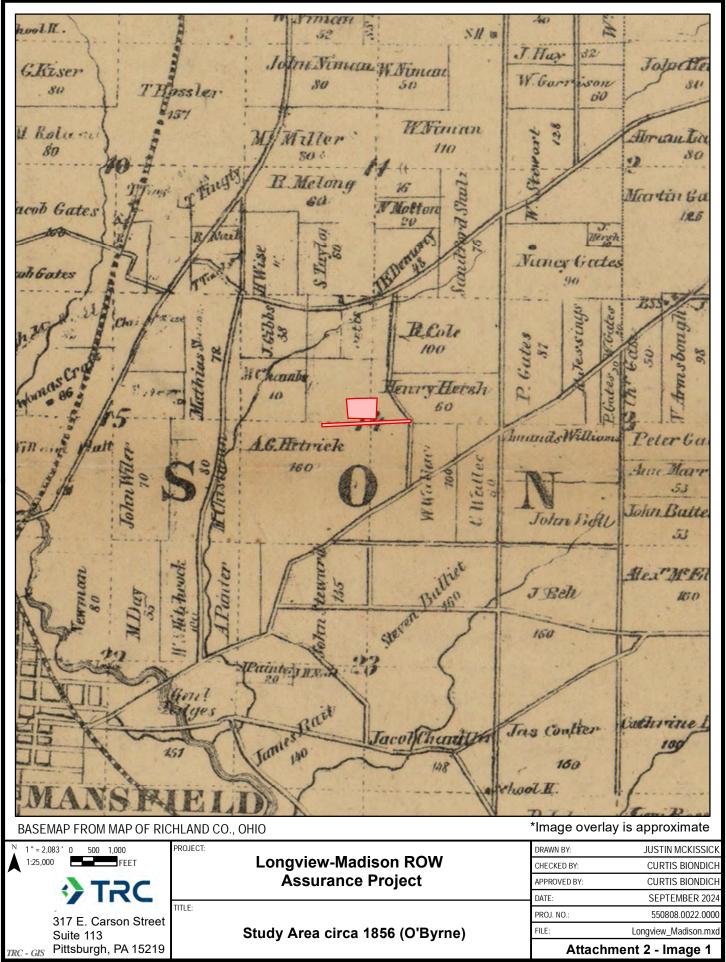
Overview of the eastern portion of the existing utility corridor portion of the Study Area, facing west.

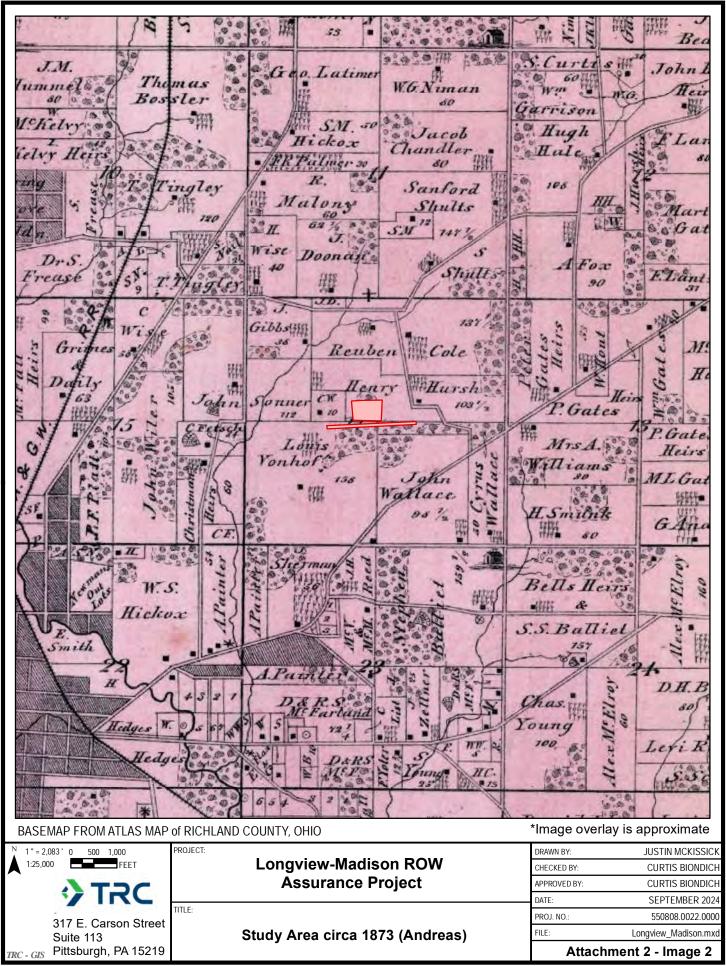


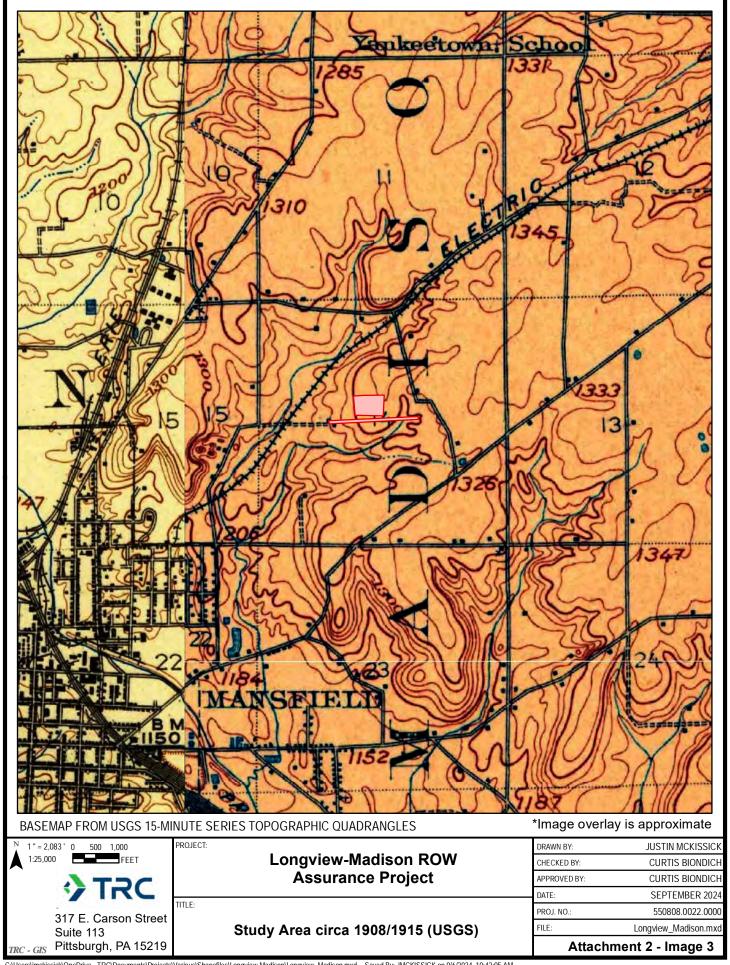


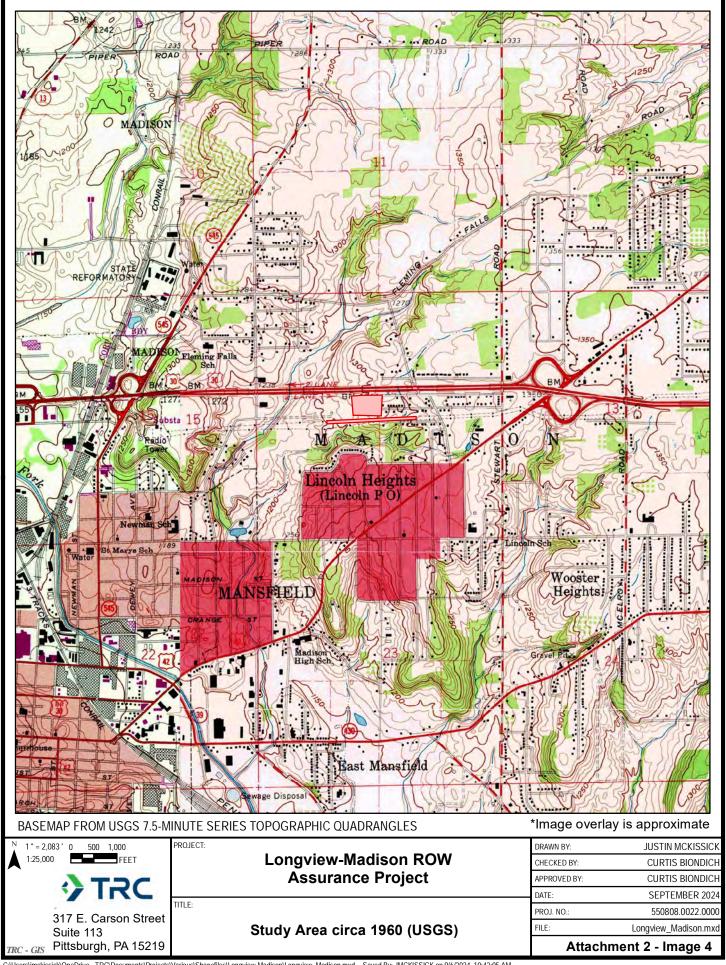
ATTACHMENT 2

Historic Map Images











Mike DeWine, Governor Jon Husted, Lt. Governor Mary Mertz, Director

Office of Real Estate & Land Management

Tara Paciorek - Chief 2045 Morse Road – E-2 Columbus, Ohio 43229-6693

September 27, 2024

Jenna Slabe TRC Companies, Inc. 1382 West 9th Street, Suite 400 Cleveland, Ohio 44113

Re: 24-1350 - Brookside-Madison ROW Assurance

Project: The proposed project involves the service and replacement of structures on the Brookside-Madison 138kV line, as part of FirstEnergy's ROW Assurance Program.

Location: The proposed project is located in Mifflin and Milton Townships, Richland and Ashland Counties, Ohio.

The Ohio Department of Natural Resources (ODNR) has completed a review of the above referenced project. These comments were generated by an inter-disciplinary review within the Department. These comments have been prepared under the authority of the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661 et seq.), the National Environmental Policy Act, the Coastal Zone Management Act, Ohio Revised Code and other applicable laws and regulations. These comments are also based on ODNR's experience as the state natural resource management agency and do not supersede or replace the regulatory authority of any local, state, or federal agency nor relieve the applicant of the obligation to comply with any local, state, or federal laws or regulations.

Natural Heritage Database: The Natural Heritage Database has the following data within one mile of the project area:

American Sweet-flag (Acorus americanus), P Marsh Five-finger (Comarum palustre), T Canada Yew (Taxus canadensis), P Sandhill Crane (Antigone canadensis), T Iowa Darter (Etheostoma exile), E Slippershell Mussel (Alasmidonta viridis), T

Conservation status abbreviations are as follows: E = state endangered; T = state threatened; P = state potentially threatened; SC = state species of concern; SI = state special interest; U = state status under review; X = presumed extirpated in Ohio; FE = federally endangered, and FT = federally threatened. The review was performed on the specified project area as well as an additional one-mile radius. Records searched date from 1980. Features searched include locations of rare and endangered plants and animals determined to be of value to the conservation of their species, high quality plant communities, animal breeding assemblages, and outstanding geological features.

The species listed above are not recorded within the boundaries of the specified project area. However, please note that Ohio has not been completely surveyed and we rely on receiving information from many sources. Therefore, a lack of records for an area is not a statement that rare species or unique features are absent from that area.

Fish and Wildlife: The Division of Wildlife (DOW) has the following comments.

The DOW recommends that impacts to streams, wetlands and other water resources be avoided and minimized to the fullest extent possible, and that Best Management Practices be utilized to minimize erosion and sedimentation.

The project is within the vicinity of records for the Indiana bat (*Myotis sodalis*), a state endangered and federally endangered species, the northern long-eared bat (*Myotis septentrionalis*), a state endangered and federally endangered species, and the little brown bat (*Myotis lucifugus*), a state endangered species. Because presence of state endangered bat species has been established in the area, summer tree cutting is not recommended, and additional summer surveys would not constitute presence/absence in the area. However, limited summer tree cutting inside this buffer may be acceptable after further consultation with DOW (contact Eileen Wyza at Eileen.Wyza@dnr.ohio.gov).

In addition, the entire state of Ohio is within the range of the Indiana bat (*Myotis sodalis*), a state endangered and federally endangered species, the northern long-eared bat (*Myotis septentrionalis*), a state endangered and federally endangered species, the little brown bat (*Myotis lucifugus*), a state endangered species, and the tricolored bat (*Perimyotis subflavus*), a state endangered species. During the spring and summer (April 1 through September 30), these bat species predominately roost in trees behind loose, exfoliating bark, in crevices and cavities, or in the leaves. However, these species are also dependent on the forest structure surrounding roost trees. The DOW recommends tree cutting only occur from October 1 through March 31, conserving trees with loose, shaggy bark and/or crevices, holes, or cavities, as well as trees with DBH ≥ 20 if possible.

The DOW also recommends that a desktop habitat assessment is conducted, followed by a field assessment if needed, to determine if a potential hibernaculum is present within the project area. Direction on how to conduct habitat assessments can be found in the current USFWS "RANGE-WIDE INDIANA BAT & NORTHERN LONG-EARED BAT SURVEY GUIDELINES." If a habitat assessment finds that a potential hibernaculum is present within 0.25 miles of the project area, please send this information to Eileen Wyza for project recommendations. If a potential or known hibernaculum is found, the DOW recommends a 0.25-mile tree cutting and subsurface disturbance buffer around the hibernaculum entrance, however, limited summer or winter tree cutting may be acceptable after consultation with the DOW. If no tree cutting or subsurface impacts to a hibernaculum are proposed, this project is not likely to impact these species.

The project is within the range of the Iowa darter (*Etheostoma exile*), a state endangered fish, and the greater redhorse (*Moxostoma valenciennesi*), a state threatened fish. The DOW recommends no inwater work in perennial streams from March 15 through June 30 to reduce impacts to indigenous aquatic species and their habitat. If no in-water work is proposed in a perennial stream, this project is not likely to impact these or other aquatic species.

The project is within the range of the northern harrier (*Circus hudsonius*), a state endangered bird. This is a common migrant and winter species. Nesters are much rarer, although they occasionally breed in large marshes and grasslands. Harriers often nest in loose colonies. The female builds a nest out of sticks on the ground, often on top of a mound. Harriers hunt over grasslands. If this type of habitat will be impacted, construction should be avoided in this habitat during the species' nesting period of April 15 through July 31. If this habitat will not be impacted, this project is not likely to impact this species.

The project is within the range of the sandhill crane (*Antigone canadensis*), a state threatened species. Sandhill cranes are primarily a wetland-dependent species. On their wintering grounds, they will utilize agricultural fields; however, they roost in shallow, standing water or moist bottomlands. On breeding grounds, they require a rather large tract of wet meadow, shallow marsh, or bog for nesting. If grassland, prairie, or wetland habitat will be impacted, construction should be avoided in this habitat during the species' nesting period of April 1 through August 31. If this habitat will not be impacted, this project is not likely to have an impact on this species.

Due to the potential of impacts to federally listed species, as well as to state listed species, we recommend that this project be coordinated with the US Fish & Wildlife Service.

Thank you for affording us the opportunity to comment.

Water Resources: The Division of Water Resources has the following comment.

The <u>local floodplain administrator</u> should be contacted concerning the possible need for any floodplain permits or approvals for this project.

ODNR appreciates the opportunity to provide these comments. Please contact Mike Pettegrew (Environmental Services Administrator) at mike.pettegrew@dnr.ohio.gov if you have questions about these comments or need additional information.

Expiration: ODNR Environmental Reviews are typically valid for 2 years from the issuance date. If the scope of work, project area, construction limits, and/or anticipated impacts to natural resources have changed significantly from the original project submittal, then a new Environmental Review request should be submitted.





Office of Real Estate & Land Management

Tara Paciorek - Chief 2045 Morse Road – E-2 Columbus, Ohio 43229-6693

September 27, 2024

Maggie Molnar TRC Companies, Inc. 1382 West 9th Street, Suite 400 Cleveland, Ohio 44113

Re: 24-1357 - Longview-Madison ROW Assurance

Project: The proposed project involves the service and replacement of structures on the Longview-Madison 138kV line, as part of FirstEnergy's ROW Assurance Program.

Location: The proposed project is located in Madison Township, Richland County, Ohio.

The Ohio Department of Natural Resources (ODNR) has completed a review of the above referenced project. These comments were generated by an inter-disciplinary review within the Department. These comments have been prepared under the authority of the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661 et seq.), the National Environmental Policy Act, the Coastal Zone Management Act, Ohio Revised Code and other applicable laws and regulations. These comments are also based on ODNR's experience as the state natural resource management agency and do not supersede or replace the regulatory authority of any local, state, or federal agency nor relieve the applicant of the obligation to comply with any local, state, or federal laws or regulations.

Natural Heritage Database: The Natural Heritage Database has the following data within one mile of the project area:

Indiana Myotis (Myotis sodalis), E, FE

Conservation status abbreviations are as follows: E = state endangered; T = state threatened; P = state potentially threatened; SC = state species of concern; SI = state special interest; U = state status under review; X = presumed extirpated in Ohio; FE = federally endangered, and FT = federally threatened. The review was performed on the specified project area as well as an additional one-mile radius. Records searched date from 1980. Features searched include locations of rare and endangered plants and animals determined to be of value to the conservation of their species, high quality plant communities, animal breeding assemblages, and outstanding geological features.

The species listed above is not recorded within the boundaries of the specified project area. However, please note that Ohio has not been completely surveyed and we rely on receiving information from many sources. Therefore, a lack of records for an area is not a statement that rare species or unique features are absent from that area.

Fish and Wildlife: The Division of Wildlife (DOW) has the following comments.

The DOW recommends that impacts to streams, wetlands and other water resources be avoided and minimized to the fullest extent possible, and that Best Management Practices be utilized to minimize erosion and sedimentation.

The project is within the vicinity of records for the Indiana bat (*Myotis sodalis*), a state endangered and federally endangered species, and the northern long-eared bat (*Myotis septentrionalis*), a state endangered and federally endangered species. Because presence of state endangered bat species has been established in the area, summer tree cutting is not recommended, and additional summer surveys would not constitute presence/absence in the area. However, limited summer tree cutting inside this buffer may be acceptable after further consultation with DOW (contact Eileen Wyza at Eileen.Wyza@dnr.ohio.gov).

In addition, the entire state of Ohio is within the range of the Indiana bat (*Myotis sodalis*), a state endangered and federally endangered species, the northern long-eared bat (*Myotis septentrionalis*), a state endangered and federally endangered species, the little brown bat (*Myotis lucifugus*), a state endangered species, and the tricolored bat (*Perimyotis subflavus*), a state endangered species. During the spring and summer (April 1 through September 30), these bat species predominately roost in trees behind loose, exfoliating bark, in crevices and cavities, or in the leaves. However, these species are also dependent on the forest structure surrounding roost trees. The DOW recommends tree cutting only occur from October 1 through March 31, conserving trees with loose, shaggy bark and/or crevices, holes, or cavities, as well as trees with DBH ≥ 20 if possible.

The DOW also recommends that a desktop habitat assessment is conducted, followed by a field assessment if needed, to determine if a potential hibernaculum is present within the project area. Direction on how to conduct habitat assessments can be found in the current USFWS "RANGE-WIDE INDIANA BAT & NORTHERN LONG-EARED BAT SURVEY GUIDELINES." If a habitat assessment finds that a potential hibernaculum is present within 0.25 miles of the project area, please send this information to Eileen Wyza for project recommendations. If a potential or known hibernaculum is found, the DOW recommends a 0.25-mile tree cutting and subsurface disturbance buffer around the hibernaculum entrance, however, limited summer or winter tree cutting may be acceptable after consultation with the DOW. If no tree cutting or subsurface impacts to a hibernaculum are proposed, this project is not likely to impact these species.

The project is within the range of the Iowa darter (*Etheostoma exile*), a state endangered fish, and the greater redhorse (*Moxostoma valenciennesi*), a state threatened fish. The DOW recommends no inwater work in perennial streams from March 15 through June 30 to reduce impacts to indigenous aquatic species and their habitat. If no in-water work is proposed in a perennial stream, this project is not likely to impact these or other aquatic species.

The project is within the range of the northern harrier (*Circus hudsonius*), a state endangered bird. This is a common migrant and winter species. Nesters are much rarer, although they occasionally breed in large marshes and grasslands. Harriers often nest in loose colonies. The female builds a nest out of sticks on the ground, often on top of a mound. Harriers hunt over grasslands. If this type of habitat will be impacted, construction should be avoided in this habitat during the species' nesting period of April 15 through July 31. If this habitat will not be impacted, this project is not likely to impact this species.

The project is within the range of the upland sandpiper (*Bartramia longicauda*), a state endangered bird. Nesting upland sandpipers utilize dry grasslands including native grasslands, seeded grasslands, grazed and ungrazed pasture, hayfields, and grasslands established through the Conservation Reserve Program (CRP). If this type of habitat will be impacted, construction should be avoided in this habitat during the species' nesting period of April 15 through July 31. If this type of habitat will not be impacted, this project is not likely to impact this species.

Due to the potential of impacts to federally listed species, as well as to state listed species, we recommend that this project be coordinated with the US Fish & Wildlife Service.

Water Resources: The Division of Water Resources has the following comment.

The <u>local floodplain administrator</u> should be contacted concerning the possible need for any floodplain permits or approvals for this project.

ODNR appreciates the opportunity to provide these comments. Please contact Mike Pettegrew (Environmental Services Administrator) at mike.pettegrew@dnr.ohio.gov if you have questions about these comments or need additional information.

Expiration: ODNR Environmental Reviews are typically valid for 2 years from the issuance date. If the scope of work, project area, construction limits, and/or anticipated impacts to natural resources have changed significantly from the original project submittal, then a new Environmental Review request should be submitted.

Stolarski, Adrianna

From: Eileen.Wyza@dnr.ohio.gov

Sent: Wednesday, October 16, 2024 12:52 PM

To: Slabe, Jenna

Cc: Falkinburg, Brad M (Ruszala, Amy M); Molnar, Maggie; Stolarski, Adrianna

Subject: [EXTERNAL] RE: Desktop Hibernacula Assessment: FirstEnergy's Brookside-Madison

ROW Assurance Project

External Sender, use caution with links/attachments. Click 'Report Message' in Outlook if suspicious.

Hello Jenna,

Per review of the desktop survey provided for FirstEnergy's Brookside-Madison ROW Assurance Project, the Ohio Division of Wildlife concurs with your assessment that no caves, cliffs, or mine openings occur in the project area. Therefore, the project is not likely to impact hibernating bats.

Should any reported conditions change before or during construction, please contact me for additional guidance.

Thank you,

Eileen Wyza, Ph.D.

(she/her/hers) Wildlife Biologist Ohio Division of Wildlife Phone: 614-265-6764

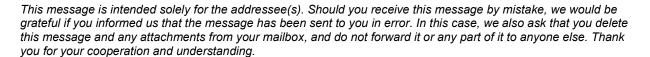
Email: Eileen.Wyza@dnr.ohio.gov



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From: Slabe.

Please consider the environment before printing this email.

Jenna <JSlabe@trccompanies.com>

Sent: Wednesday, October 16, 2024 12:07 PM **To:** Wyza, Eileen < Eileen. Wyza@dnr.ohio.gov >

Cc: Falkinburg, Brad <BFalkinburg@trccompanies.com>; Molnar, Maggie <MMolnar@trccompanies.com>; Stolarski,

Adrianna <astolarski@firstenergycorp.com>

Subject: Desktop Hibernacula Assessment: FirstEnergy's Brookside-Madison ROW Assurance Project

Eileen,

In response to ODNR's DOW recommendations (attached), TRC completed a desktop hibernacula assessment to determine if potential hibernaculum is present within FirstEnergy's proposed Brookside-Madison ROW Assurance Project located in Mifflin Township in Richland County and the City of Ashland and Milton, Mifflin, and Montgomery Townships in Ashland County.

Please let us know if you have any questions on the provided desktop assessment or require any additional information, thank you!

Jenna Slabe

Ecologist
Planning, Permitting, and Licensing



CAUTION: This is an external email and may not be safe. If the email looks suspicious, please do not click links or open attachments and forward the email to csc@ohio.gov or click the Phish Alert Button if available.

Stolarski, Adrianna

From: Eileen.Wyza@dnr.ohio.gov

Sent: Monday, October 21, 2024 8:47 AM

To: Slabe, Jenna

Cc: Falkinburg, Brad M (Ruszala, Amy M); Molnar, Maggie; Stolarski, Adrianna

Subject: [EXTERNAL] RE: Desktop Hibernacula Assessment: FirstEnergy's Longview-Madison

ROW Assurance Project

External Sender, use caution with links/attachments. Click 'Report Message' in Outlook if suspicious.

Hello Jenna,

Per review of the desktop survey provided for FirstEnergy's Longview-Madison ROW Assurance Project, the Ohio Division of Wildlife concurs with your assessment that no caves, cliffs, or mine openings occur in the project area. Therefore, the project is not likely to impact hibernating bats.

Should any reported conditions change before or during construction, please contact me for additional guidance.

Thank you,

Eileen Wyza, Ph.D.

(she/her/hers) Wildlife Biologist Ohio Division of Wildlife Phone: 614-265-6764

Email: Eileen.Wyza@dnr.ohio.gov



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Please consider the environment before printing this email.

Jenna <JSlabe@trccompanies.com> **Sent:** Friday, October 18, 2024 4:21 PM

To: Wyza, Eileen < Eileen. Wyza@dnr.ohio.gov>

Cc: Falkinburg, Brad <BFalkinburg@trccompanies.com>; Molnar, Maggie <MMolnar@trccompanies.com>; Stolarski,

Adrianna <astolarski@firstenergycorp.com>

Subject: Desktop Hibernacula Assessment: FirstEnergy's Longview-Madison ROW Assurance Project

From:

Slabe,

Eileen,

In response to ODNR's DOW recommendations (attached), TRC completed a desktop hibernacula assessment to determine if potential hibernaculum is present within FirstEnergy's proposed Longview-Madison ROW Assurance Project located in the City of Mansfield and Madison Township in Richland County, Ohio.

Please let us know if you have any questions on the provided desktop assessment or require any additional information, thank you!

Jenna Slabe

Ecologist Planning, Permitting, and Licensing



CAUTION: This is an external email and may not be safe. If the email looks suspicious, please do not click links or open attachments and forward the email to csc@ohio.gov or click the Phish Alert Button if available.

United States Department of the Interior



FISH AND WILDLIFE SERVICE

Ecological Services 4625 Morse Road, Suite 104 Columbus, Ohio 43230 (614) 416-8993 / FAX (614) 416-8994



September 10, 2024

Project Code: 2024-0135306

Dear Jenna Slabe:

The U.S. Fish and Wildlife Service (Service) received your recent correspondence requesting information about the subject proposal. We offer the following comments and recommendations to assist you in minimizing and avoiding adverse effects to threatened and endangered species pursuant to the Endangered Species Act of 1973 (16 U.S.C. 1531 et seq), as amended (ESA).

<u>Federally Threatened and Endangered Species</u>: Due to the project, type, size, and location, we do not anticipate adverse effects to federally endangered, threatened, or proposed species or proposed or designated critical habitat. If there are any project modifications during the term of this action, or additional information for listed or proposed species or their critical habitat becomes available, or if new information reveals effects of the action that were not previously considered, then please contact us for additional project review.

If you have questions, or if we can be of further assistance in this matter, please contact our office at (614) 416-8993 or ohio@fws.gov.

Sincerely,

Erin Knoll

Field Office Supervisor

United States Department of the Interior



FISH AND WILDLIFE SERVICE

Ecological Services 4625 Morse Road, Suite 104 Columbus, Ohio 43230 (614) 416-8993 / FAX (614) 416-8994



September 18, 2024

Project Code: 2024-0135781

Dear Maggie Molnar:

The U.S. Fish and Wildlife Service (Service) has received your recent correspondence requesting information about the subject proposal. We offer the following comments and recommendations to assist you in minimizing and avoiding adverse impacts to threatened and endangered species pursuant to the Endangered Species Act of 1973 (16 U.S.C. 1531 et seq), as amended (ESA).

<u>Federally Threatened and Endangered Species</u>: Due to the project type, size, location, and the proposed implementation of seasonal tree cutting (clearing of trees ≥3 inches diameter at breast height between October 1 and March 31) to avoid impacts to the endangered Indiana bat (*Myotis sodalis*) and northern long-eared bat (*Myotis septentrionalis*), and the proposed endangered tricolored bat (*Perimyotis subflavus*) we do not anticipate adverse effects to any other federally endangered, threatened, or proposed species, or proposed or designated critical habitat. Should the project design change, or additional information on listed or proposed species or their critical habitat become available, or if new information reveals effects of the action that were not previously considered, coordination with the Service should be initiated to assess any potential impacts.

Section 7 Coordination: If there is a federal nexus for the project (e.g., federal funding provided, federal permits required to construct), then no tree clearing should occur on any portion of the project area until consultation under section 7 of the ESA, between the Service and the federal action agency, is completed. We recommend the federal action agency submit a determination of effects to this office, relative to the Indiana bat and northern long-eared bat, for our review and concurrence. This letter provides technical assistance only and does not serve as a completed section 7 consultation document.

Stream and Wetland Avoidance: Over 90% of the wetlands in Ohio have been drained, filled, or modified by human activities, thus is it important to conserve the functions and values of the remaining wetlands in Ohio (https://epa.ohio.gov/portals/47/facts/ohio_wetlands.pdf). We recommend avoiding and minimizing project impacts to all wetland habitats (e.g., forests, streams, vernal pools) to the maximum extent possible in order to benefit water quality and fish and wildlife habitat. Additionally, natural buffers around streams and wetlands should be preserved to enhance beneficial functions. If streams or wetlands will be impacted, the U.S. Army Corps of Engineers should be contacted to determine whether a Clean Water Act section 404 permit is required. Best management practices should be used to minimize erosion, especially on slopes. Disturbed areas should be mulched and revegetated with native plant

species. In addition, prevention of non-native, invasive plant establishment is critical in maintaining high quality habitats.

Thank you for your efforts to conserve listed species and sensitive habitats in Ohio. We recommend coordinating with the Ohio Department of Natural Resources due to the potential for the proposed project to affect state listed species and/or state lands. Contact Mike Pettegrew, Environmental Services Administrator, at (614) 265-6387 or at mike.pettegrew@dnr.ohio.gov.

If you have questions, or if we can be of further assistance in this matter, please contact our office at (614) 416-8993 or ohio@fws.gov.

Sincerely,

Erin Knoll

Field Office Supervisor

Ein Hell



1382 West Ninth St. Suite 400 Cleveland, OH 44113 T 216.344.3072 TRCcompanies.com

October 17, 2024

Adrianna Stolarski FirstEnergy Corporation 341 White Pond Drive Akron, OH 44320

Reference: Technical Memorandum for the Surface Water Delineation of the Brookside-Madison

ROW Assurance Project located in Mifflin Township in Richland County and the City of Ashland and Milton, Mifflin, and Montgomery Townships in Ashland County, Ohio.

(TRC Project No. 550808.0021.0000)

Dear Adrianna Stolarski:

On behalf of FirstEnergy Corporation (FirstEnergy), TRC Environmental Corporation (TRC) conducted a surface water delineation for the Brookside-Madison ROW Assurance Project (Project). The Project is located in Mifflin Township in Richland County and the City of Ashland and Milton, Mifflin, and Montgomery Townships in Ashland County, Ohio and is 27.76 acres in size (**Attachment A, Figures 1 and 2**). The Project Study Area comprises several plots with the following centroid location: 40.821701, -82.350121. The proposed Project involves the service and replacement of structures along the Brookside-Madison 138kV line, as part of FirstEnergy's ROW Assurance Program.

The delineation was conducted by qualified wetland scientists on September 11th and 12th, 2024, in accordance with the United States Army Corps of Engineers (USACE) parameters. The objective was to evaluate and delineate potential surface water resources within the Project Study Area, such that the resources could be considered during each phase of the Project. Prior to the site visit, TRC reviewed available secondary source information such as the National Wetlands Inventory (NWI), National Hydrography Dataset (NHD), United States Geological Survey (USGS) topographic maps, County Soil Survey maps, and aerial imagery of the Project Study Area to use in addition to field investigations.

The Project Study Area is shown on the attached map (**Attachment A, Figure 1**), which was derived from the USGS Pavonia, Ohio and Ashland South, Ohio 7.5-minute quadrangle topographic maps. Soil mapped within the Project Study Area includes hydric and non-hydric soils (**Attachment A, Figure 3**). The proposed Project Study Area includes three (3) mapped NWI riverine features and three (3) mapped NHD features (including Jamison Creek) (**Attachment A, Figure 4**). According to Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map panels, 39139C0175E (eff. 4/4/2011), 39005C0235E (eff. 8/18/2009), 39005C0231E (eff. 8/18/2009), 39005C0230E (eff. 8/18/2009), and 39005C0225E (eff. 8/18/2009), the proposed Project is not located within a FEMA-mapped 100-Year Flood Zone.

During the field investigation, land use within the Project Study Area was observed to be existing, maintained utility right-of-way within agricultural and residential land use, developed open space, and forested habitat. See the attached mapping in **Attachment A** and the Photographic Record in **Attachment B** for further details of the Project Study Area.

During the field investigation, three (3) wetlands (W-EVN-1, W-EVN-2, and W-EVN-3) and two (2) streams (S-EVN-01 [Jamison Creek] and S-EVN-2) were identified and delineated within the Project Study Area. No other ecological resources were observed within the Project Study Area. See **Table 1** and **Table 2** below for a summary of the observed resources. The delineated wetland boundaries and sample points are shown on **Figure 5** in **Attachment A**. Wetland data was collected and recorded on the USACE Wetland Determination Data Forms – Northcentral Northeast Region and Midwest Region.

A wetland functional assessment was completed for each wetland using the Ohio Environmental Protection Agency (OEPA) Ohio Rapid Assessment Method (ORAM) data form. Stream data was collected and recorded on the OEPA Qualitative Habitat Evaluation Index (QHEI) data form for streams with a drainage area greater than one (1) square mile or which have pools with maximum depths over 15.8 inches (40.0 centimeters) and the OEPA Headwater Habitat Evaluation Index (HHEI) data form for streams with a drainage area less than one (1) square mile. All wetland and stream data forms are provided in **Attachment C.**

Table 1. Delineated Wetland Features Summary Table

Wetland ID	Cowardin Classification ¹	Connection ²	ORAM Score and Category ³	Delineated Area within Project Study Area (acres)	
W-EVN-1	PEM	Adjacent	28 (Cat.1)	0.013	
W-EVN-2	PEM	Adjacent	37 (Cat.2)	0.102	
W-EVN-3	PEM	Adjacent	21 (Cat.1)	0.075	

Note: See Delineated Resources Map and Photographic Record for more details.

<u>Table 2. Delineated Stream Features Summary Table</u>

Stream ID	Resource Name ¹	Flow Regime	QHEI	HHEI	OEPA Use Designation ²	Narrative Rating/ Classification ³	Delineated Length within the Project Study Area (linear feet)
S-EVN- 1	Jamison Creek	Perennial	61.5	_	WWH, AWS, IWS, PCR	Good	300
S-EVN- 2	UNT to Jamison Creek	Intermittent	-	29	NA	Class I PHW	93

Note: See Delineated Resources Map and Photographic Record for more details.

¹ Cowardin Wetland Classification within the Project Study Area (based upon field identification and delineation) (Cowardin, et al., 1979): PEM – Palustrine Emergent.

² Wetland connection is pending an update from OEPA and USACE based on the USA vs. Sackett case.

³ Wetland scores falling within the "Modified" category were rounded up to a Category 2.

¹UNT= Unnamed tributary

²WWH= Warm Water Habitat, AWS= Agricultural Water Supply, IWS= Industrial Water Supply, PCR= Primary Contact Recreation (Determined by OEPA and listed in OAC §3745-1-24 Muskingum River drainage basin (Ohio Administrative Code, 2020)).

³PHW= Primary Headwater

Brookside-Madison ROW Assurance Project Surface Water Delineation – Technical Memorandum

This Technical Memorandum represents the conditions within the Project Study Area identified herein, as of the inspection dates. Should you require any additional information or have any questions concerning this letter, please feel free to contact me at (440) 666-2890 or by email at BFalkinburg@TRCCompanies.com.

Kind Regards,

Brown Falkily

Brad M. Falkinburg, PWS Ecological Office Practice Leader

cc: Maggie Molnar, PWS - TRC

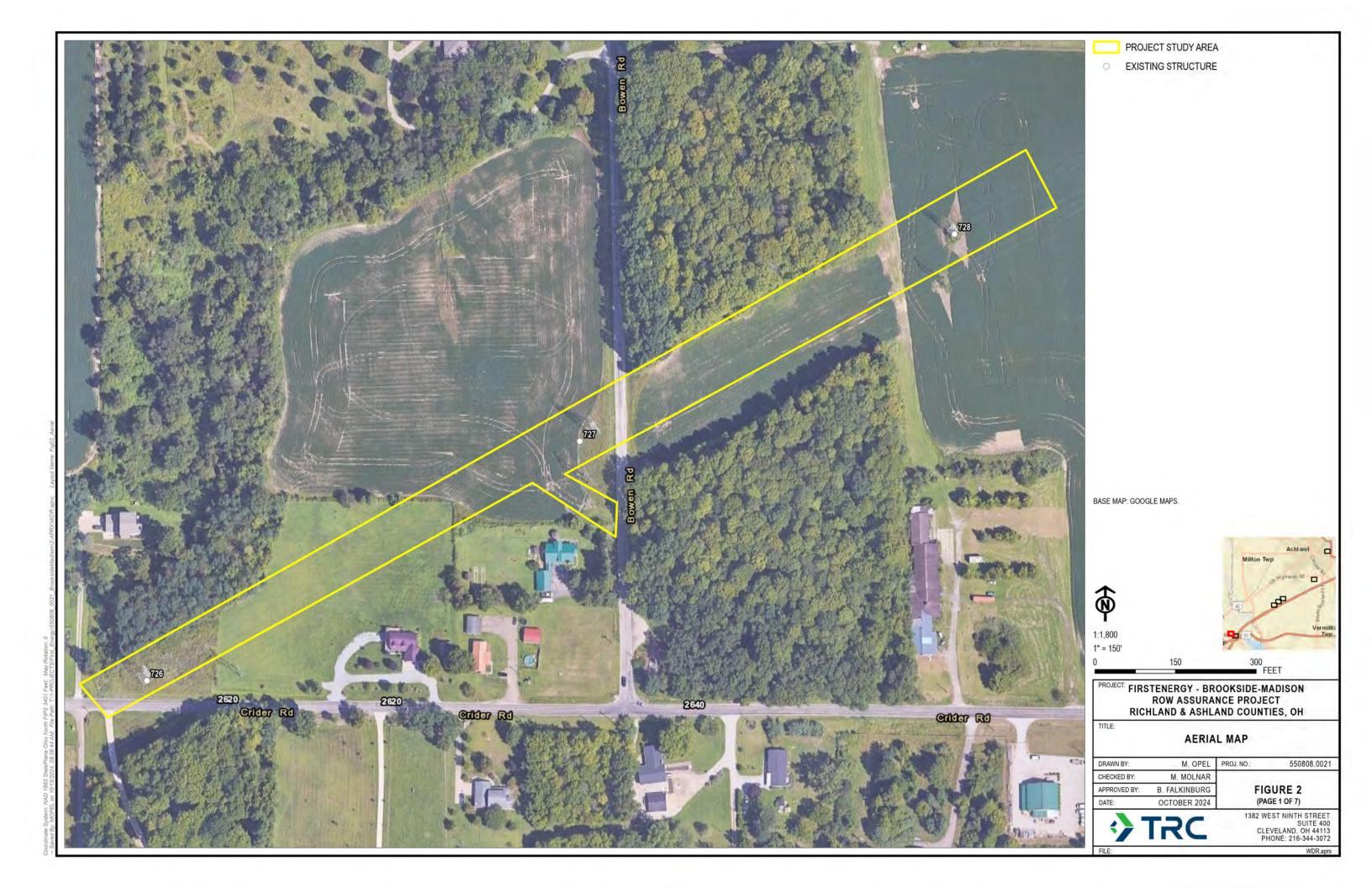
Attachments

Attachment A: Figures

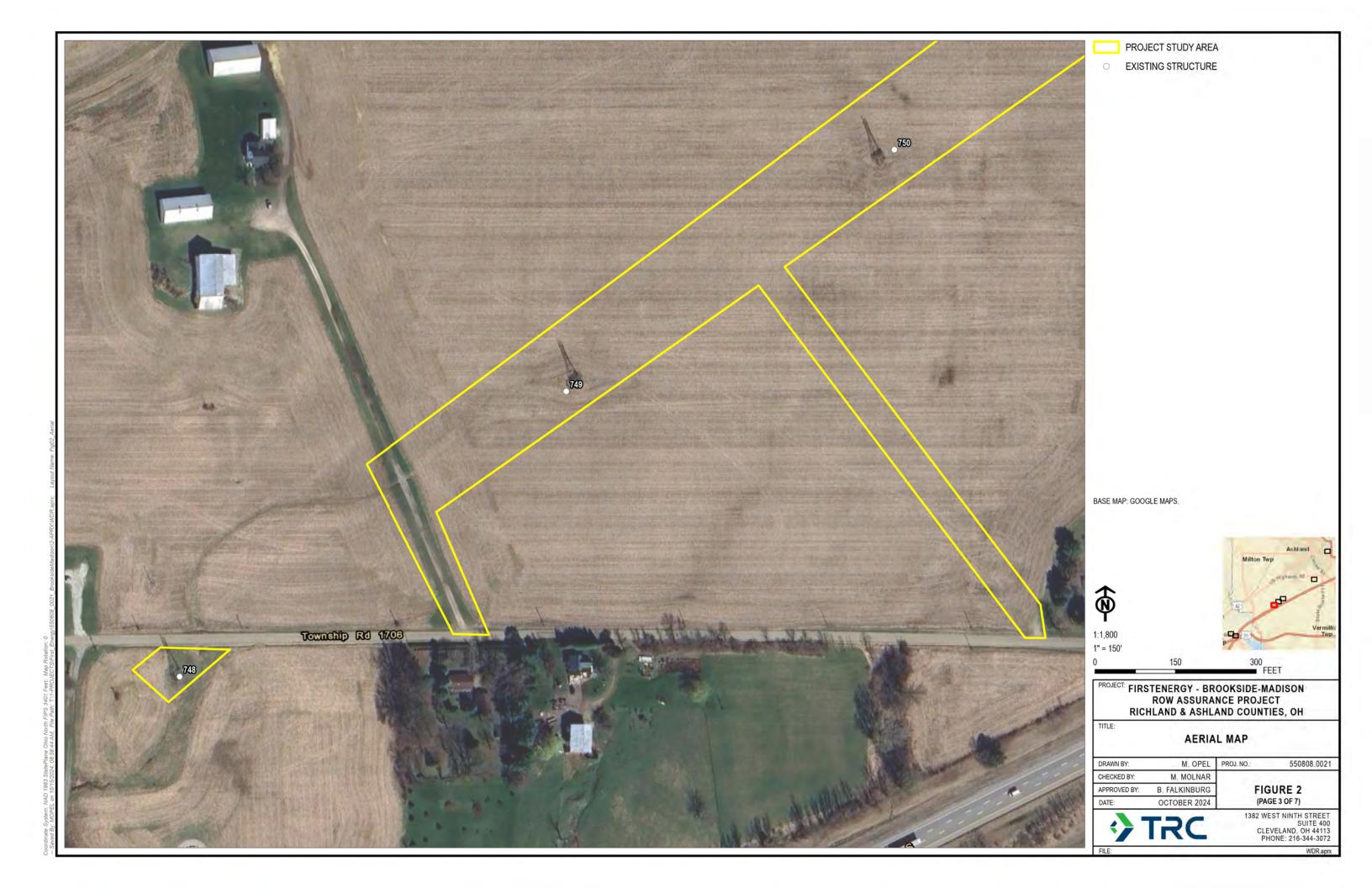
Attachment B: Photographic Record

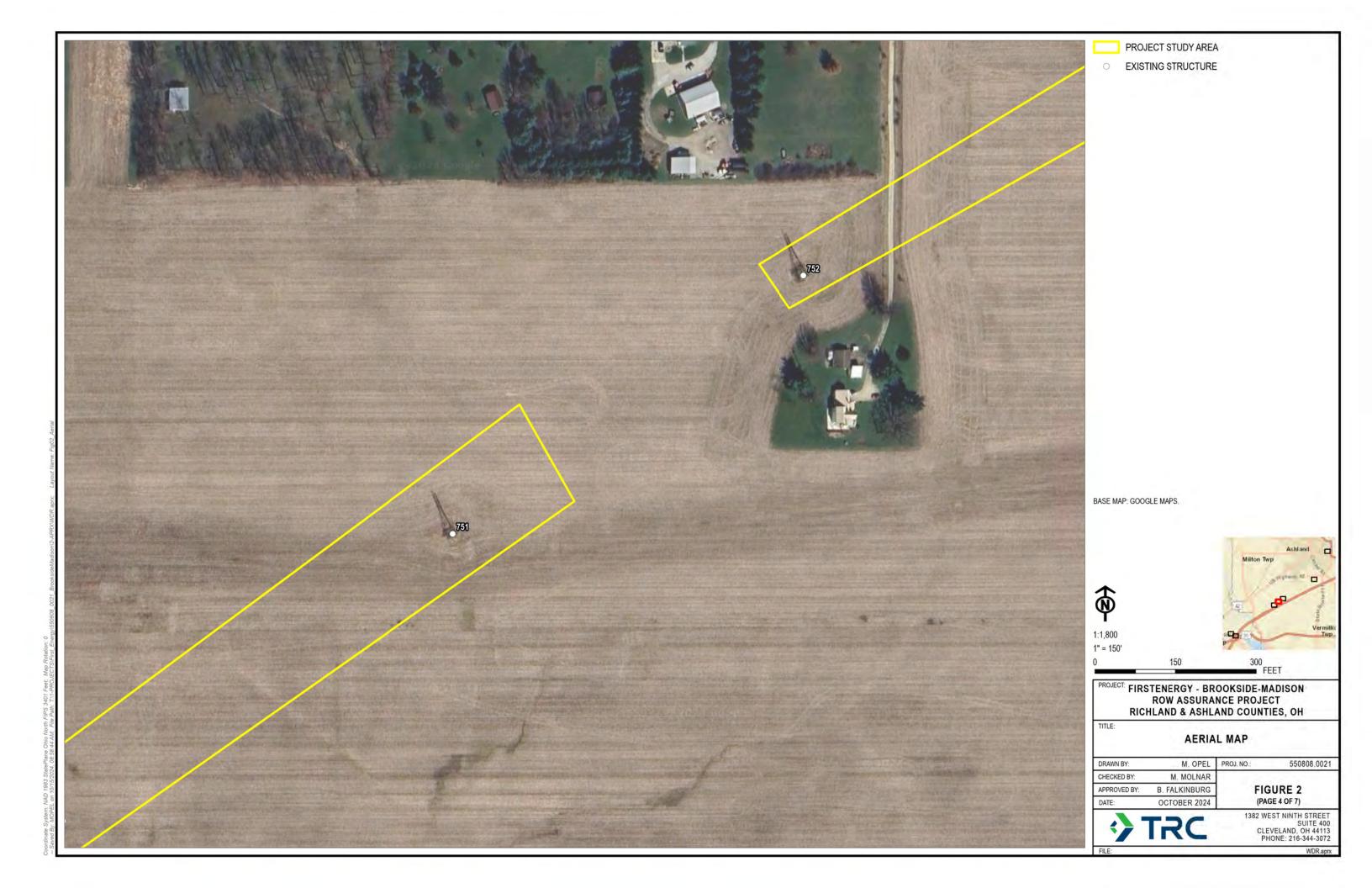
Attachment C: Data Sheets

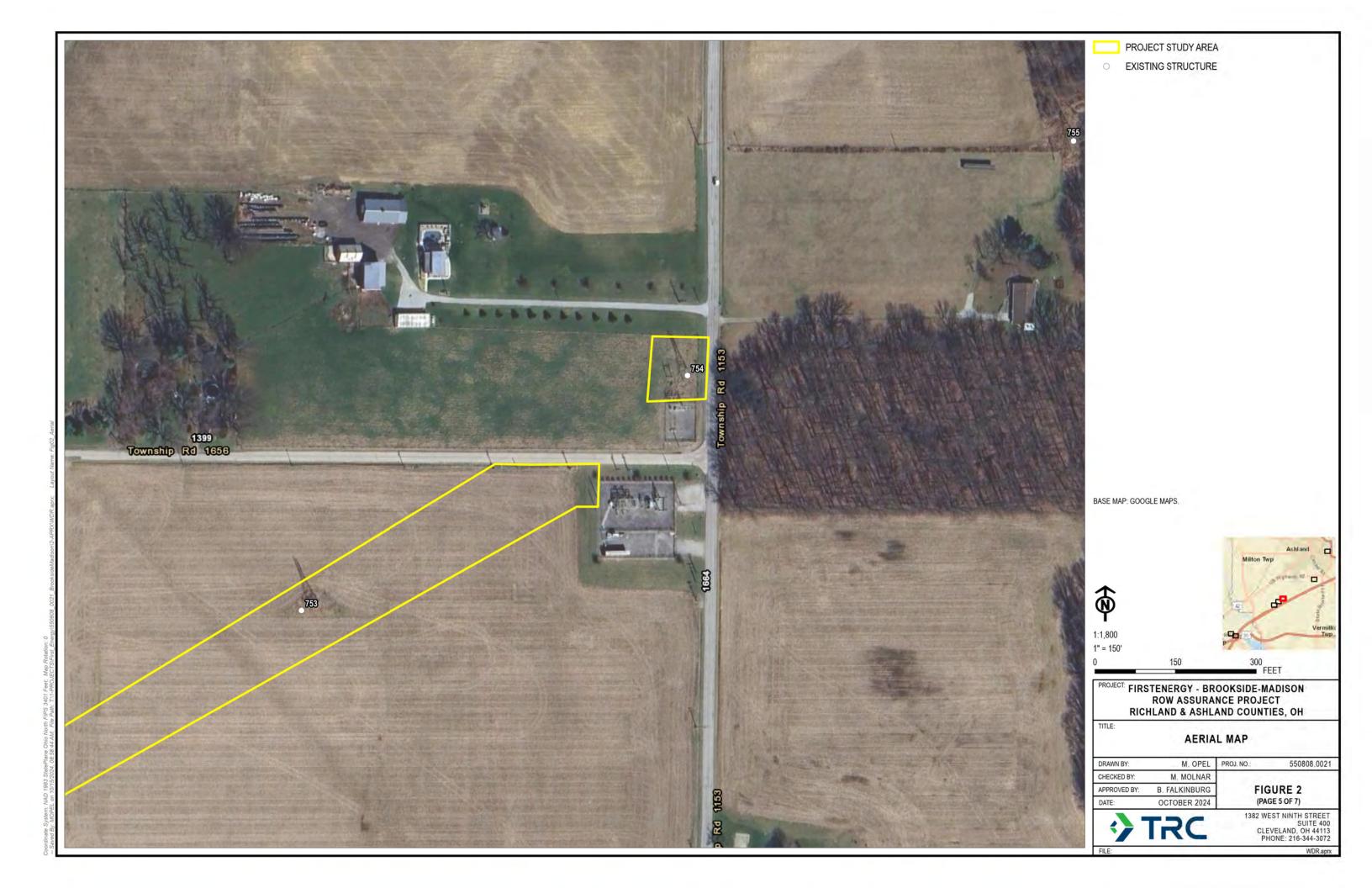
ATTACHMENT A – Figures

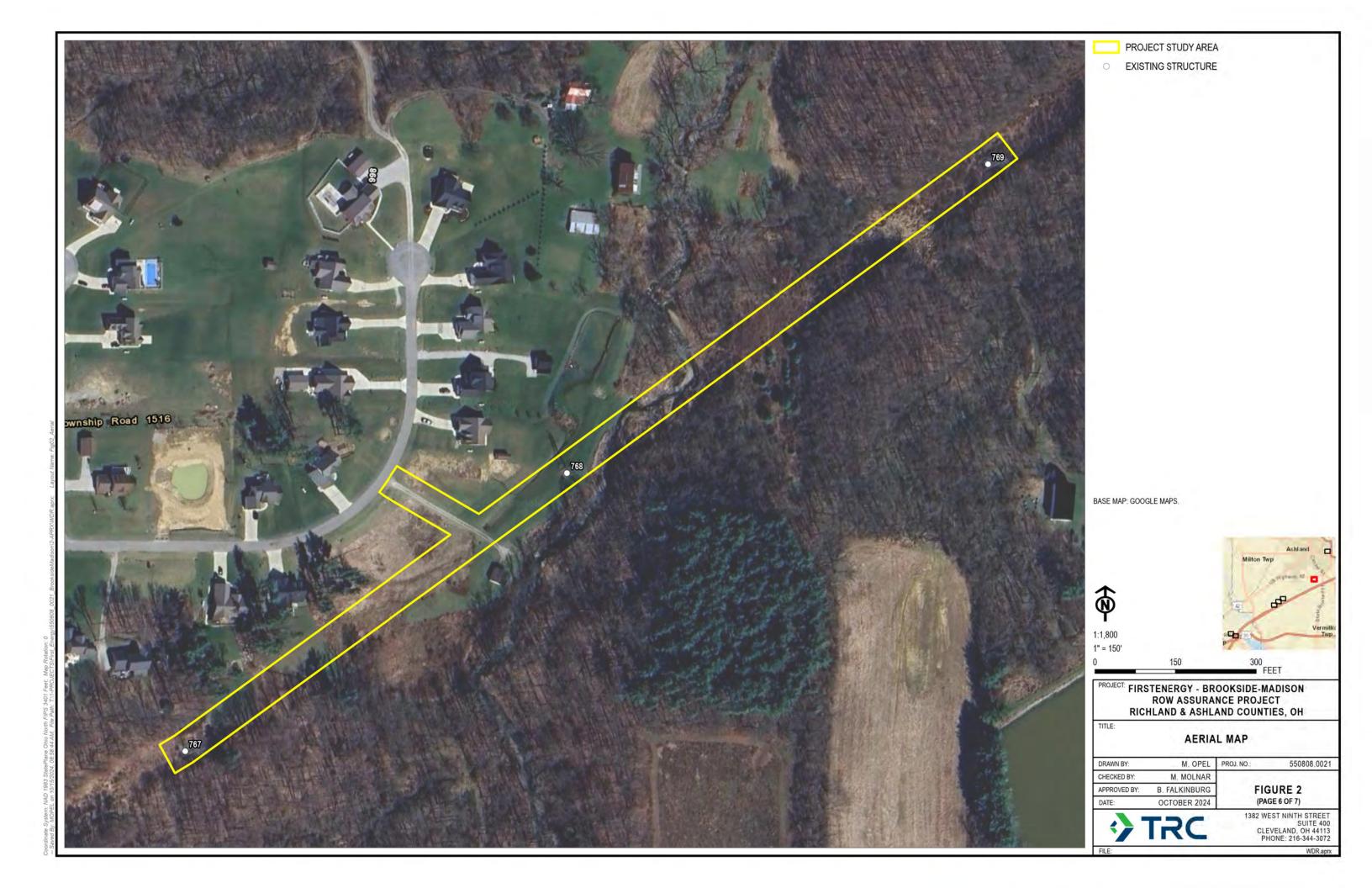














PROJECT STUDY AREA

EXISTING STRUCTURE

BASE MAP: GOOGLE MAPS.

PROJECT: FIRSTENERGY - BROOKSIDE-MADISON ROW ASSURANCE PROJECT RICHLAND & ASHLAND COUNTIES, OH

AERIAL MAP

DRAWN BY:	M, OPEL
CHECKED BY:	M. MOLNAR
APPROVED BY:	B. FALKINBURG
DATE:	OCTOBER 2024

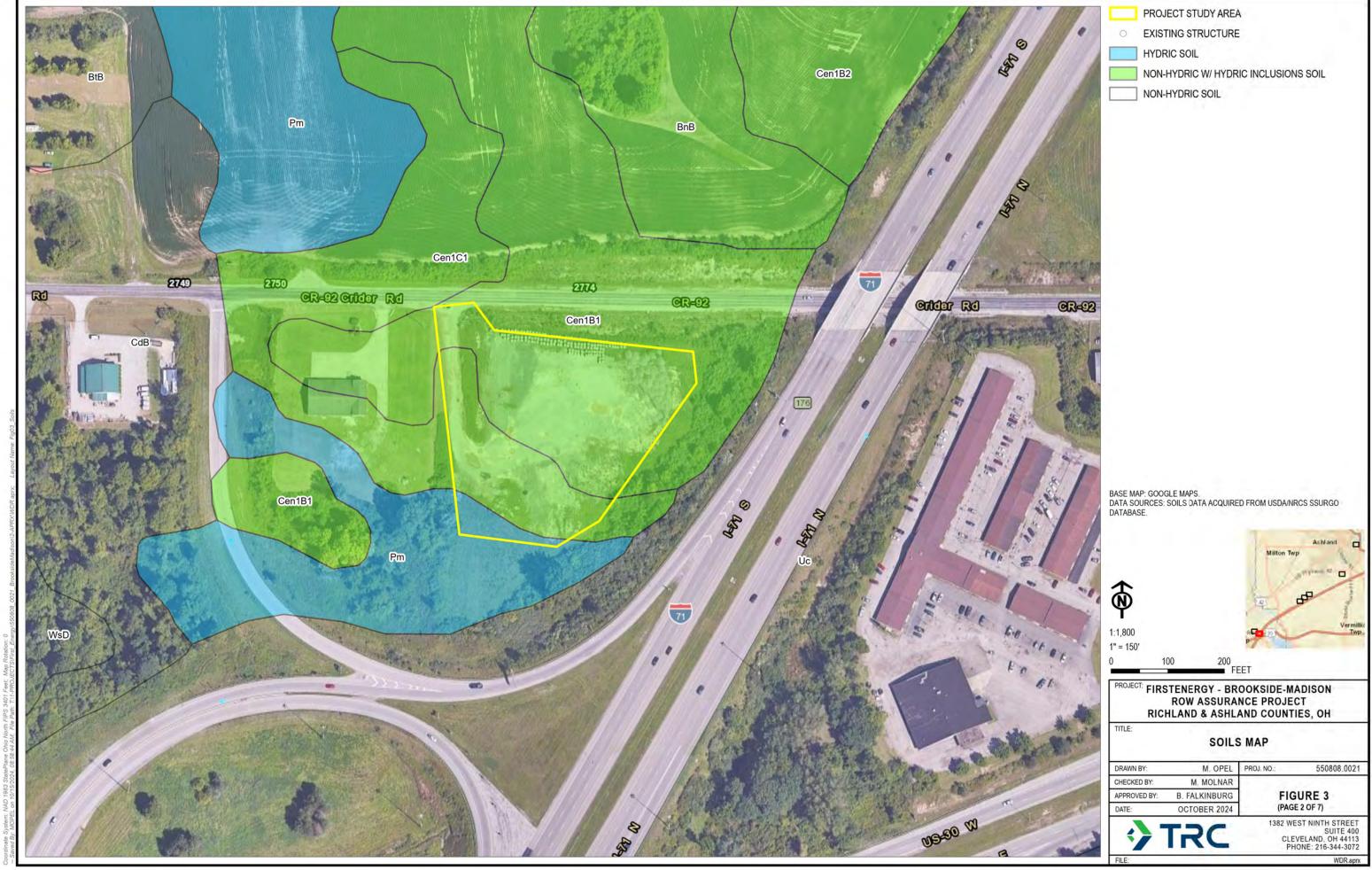
FIGURE 2 (PAGE 7 OF 7)

♦ TRC

1382 WEST NINTH STREET SUITE 400 CLEVELAND, OH 44113 PHONE: 216-344-3072

550808.0021







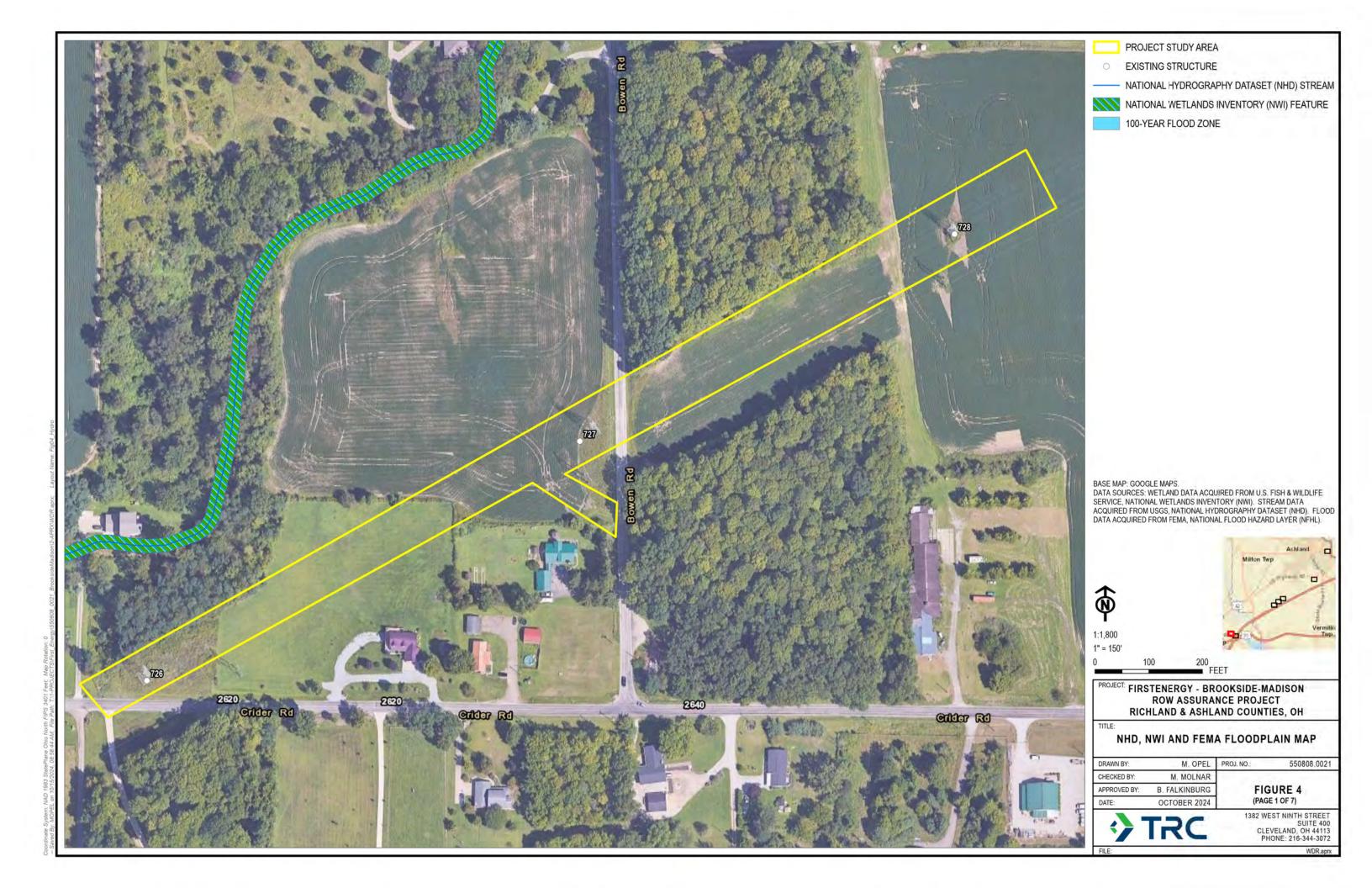


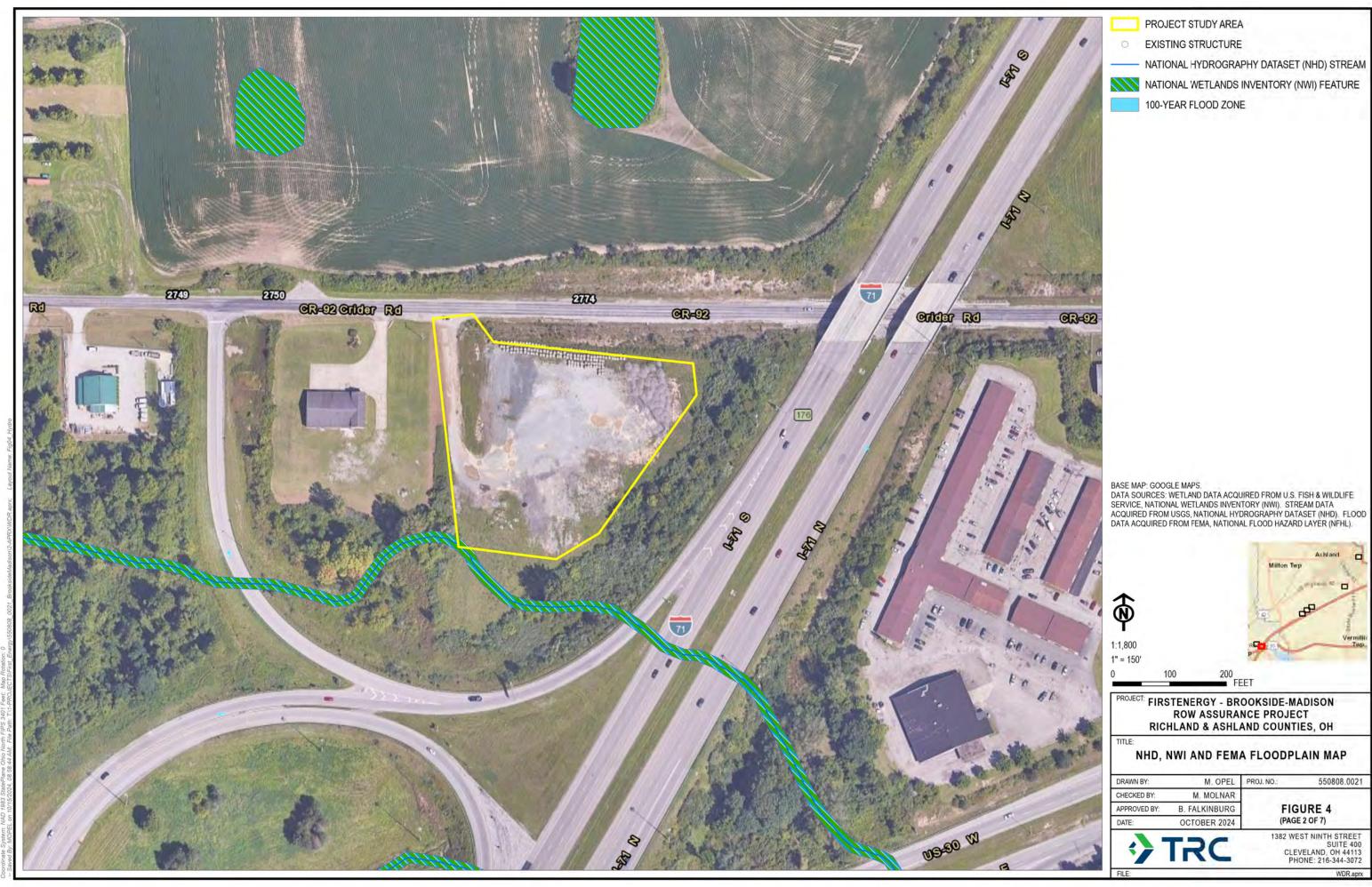






oordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet; Map Rotation: 0

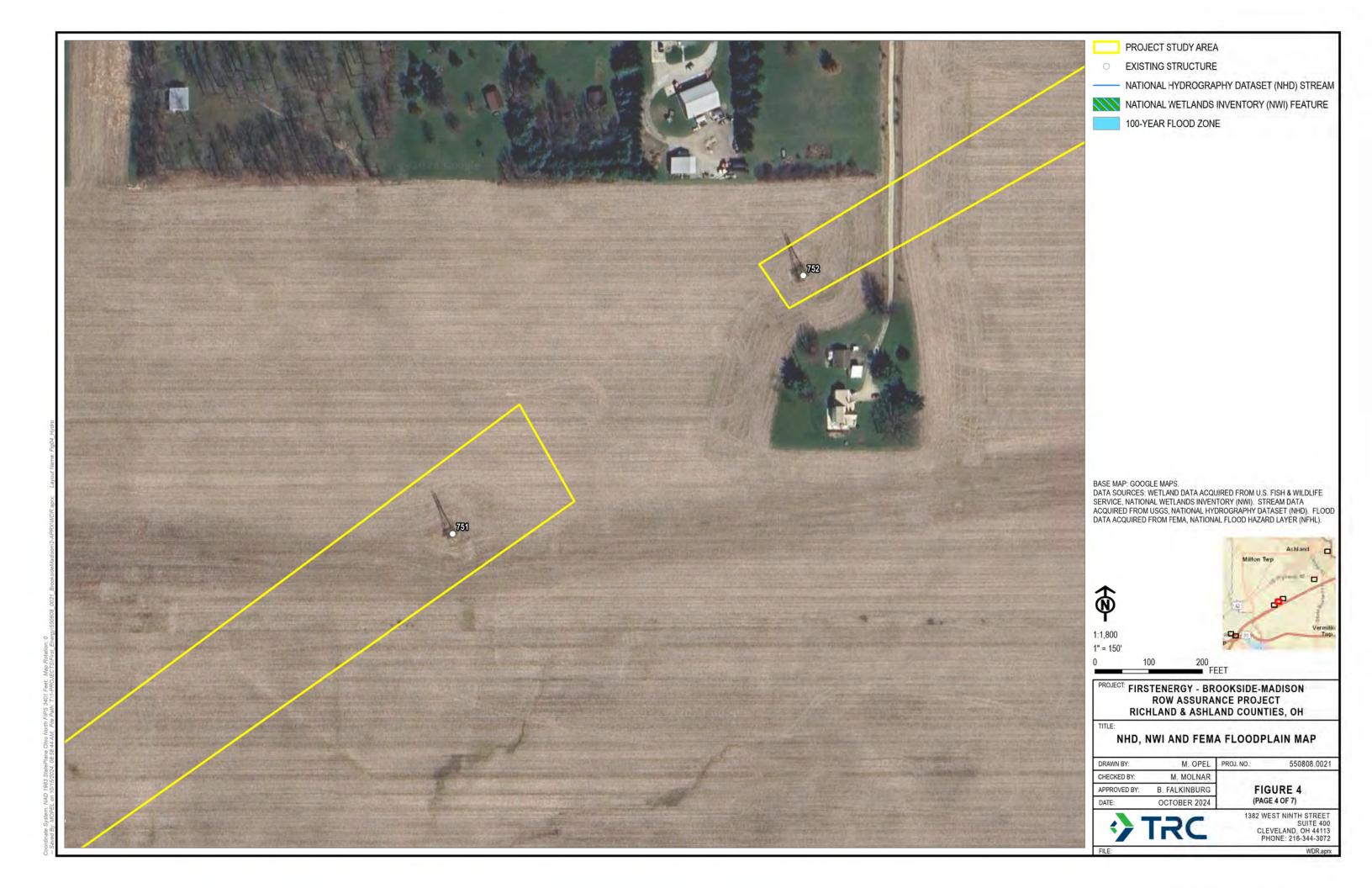


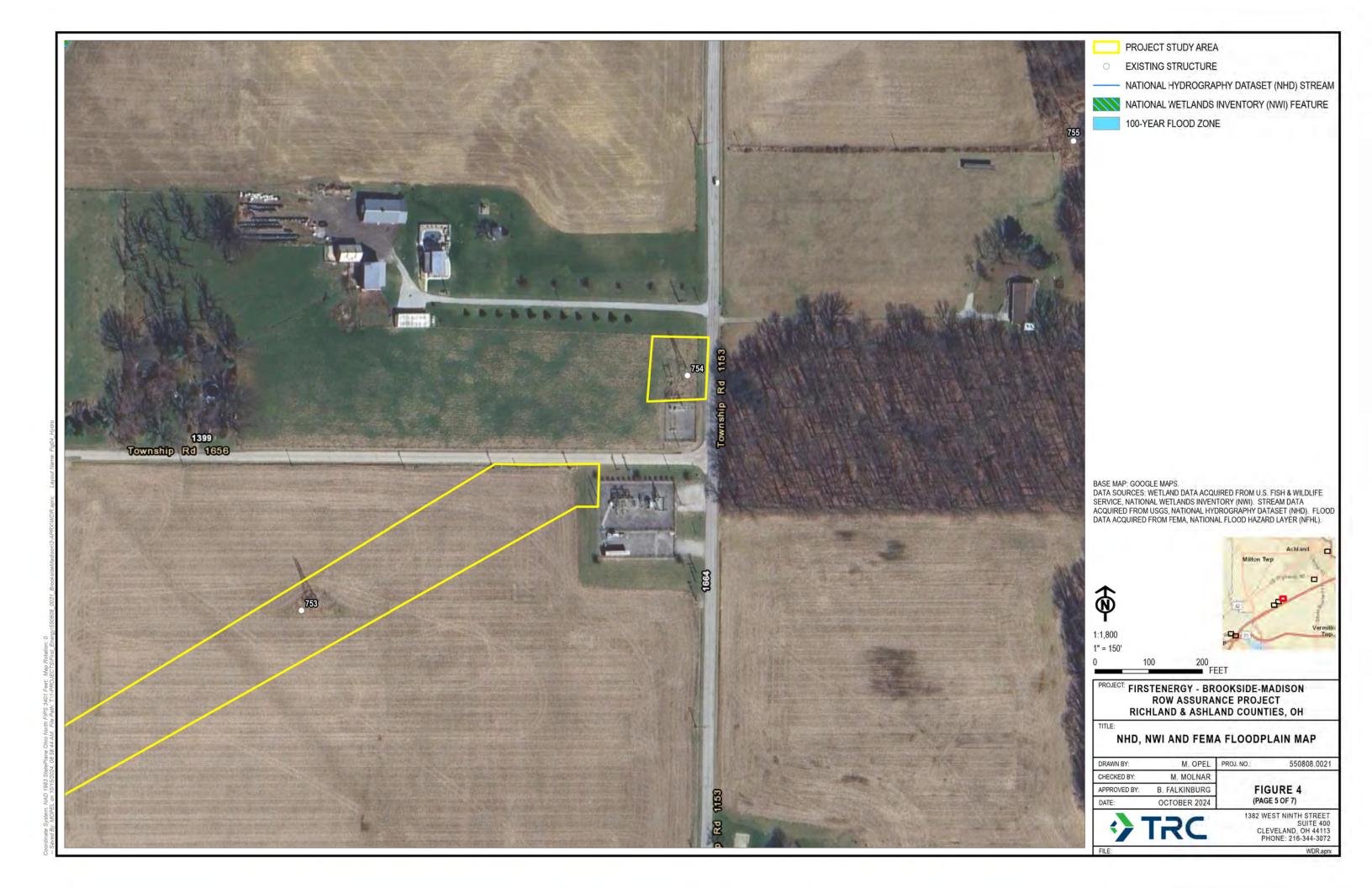


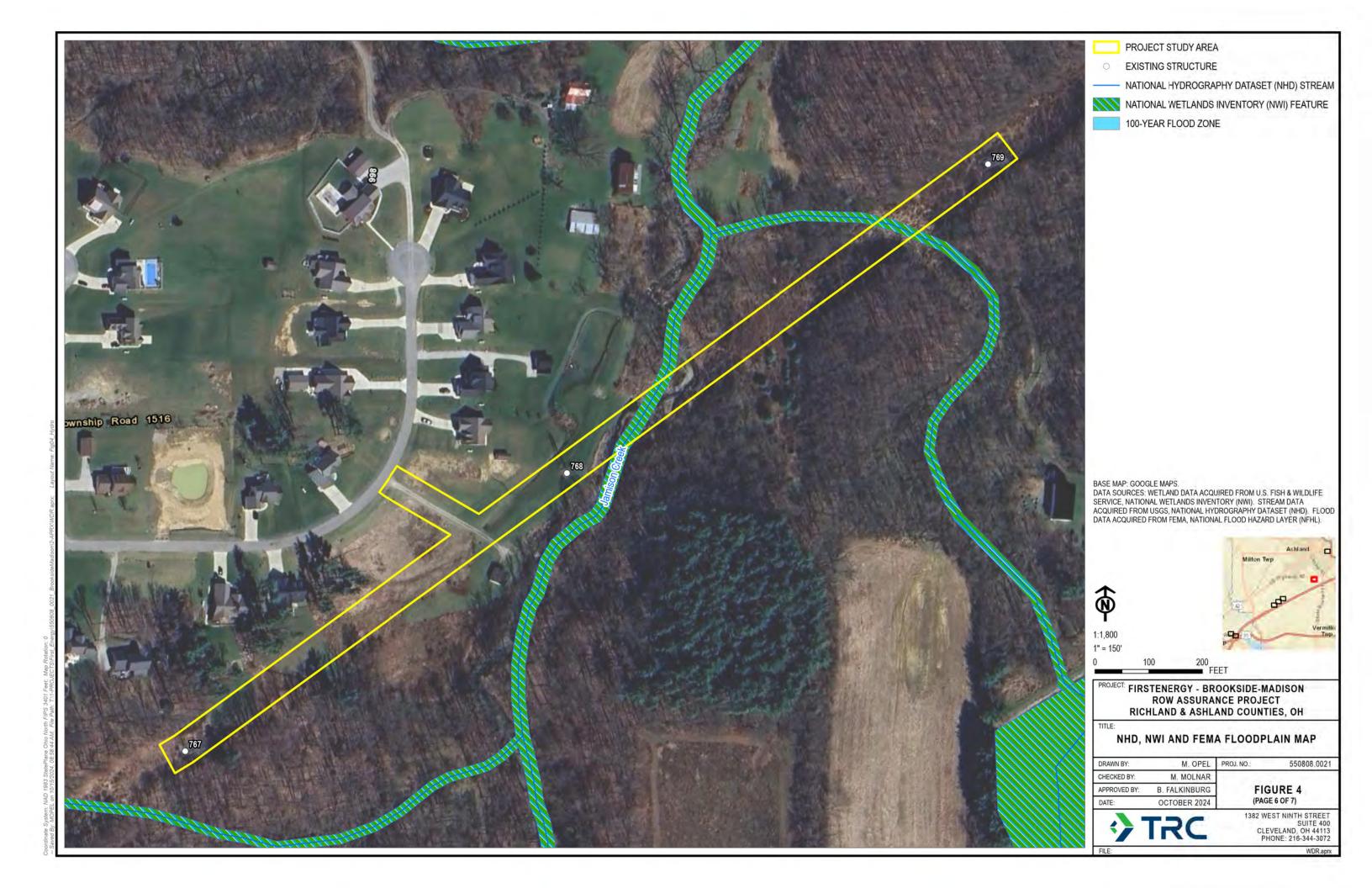
Oracles MAD 4000 Ober Director Alexander COS 2404 Date Details



stem: NAD 1983 StatePlane Ohio North FIPS 3401 Feet: Map Rotation: 0









PROJECT STUDY AREA EXISTING STRUCTURE NATIONAL HYDROGRAPHY DATASET (NHD) STREAM

NATIONAL WETLANDS INVENTORY (NWI) FEATURE

100-YEAR FLOOD ZONE

BASE MAP: GOOGLE MAPS.
DATA SOURCES: WETLAND DATA ACQUIRED FROM U.S. FISH & WILDLIFE
SERVICE, NATIONAL WETLANDS INVENTORY (NWI). STREAM DATA
ACQUIRED FROM USGS, NATIONAL HYDROGRAPHY DATASET (NHD). FLOOD
DATA ACQUIRED FROM FEMA, NATIONAL FLOOD HAZARD LAYER (NFHL).



PROJECT: FIRSTENERGY - BROOKSIDE-MADISON ROW ASSURANCE PROJECT RICHLAND & ASHLAND COUNTIES, OH

NHD, NWI AND FEMA FLOODPLAIN MAP

PROJ. NO.:

	DRAWN BY:	M. OPEL
	CHECKED BY:	M. MOLNAR
ı	APPROVED BY:	B. FALKINBURG
	DATE:	OCTOBER 2024

FIGURE 4 (PAGE 7 OF 7)

♦ TRC

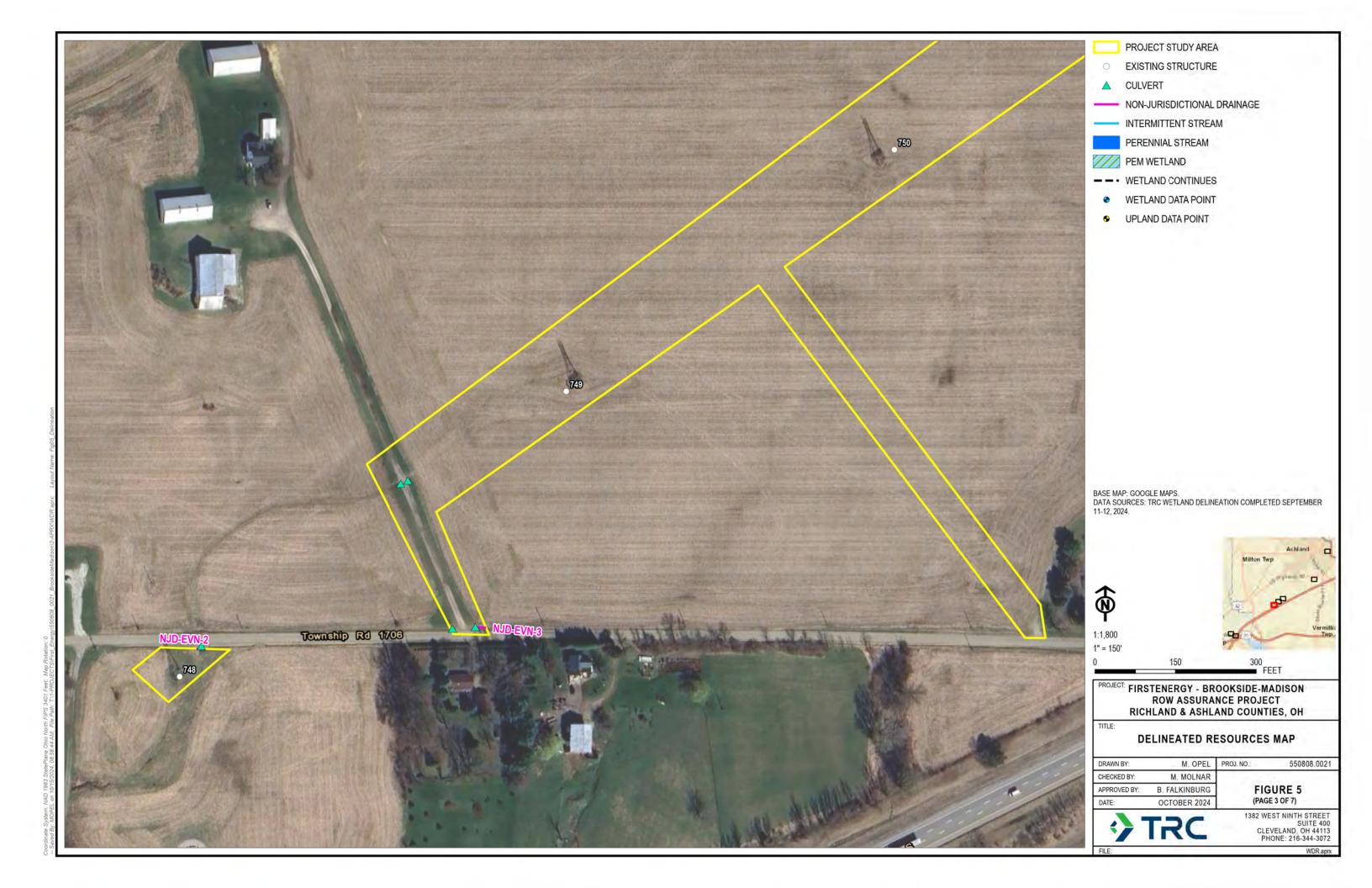
1382 WEST NINTH STREET SUITE 400 CLEVELAND, OH 44113 PHONE: 216-344-3072

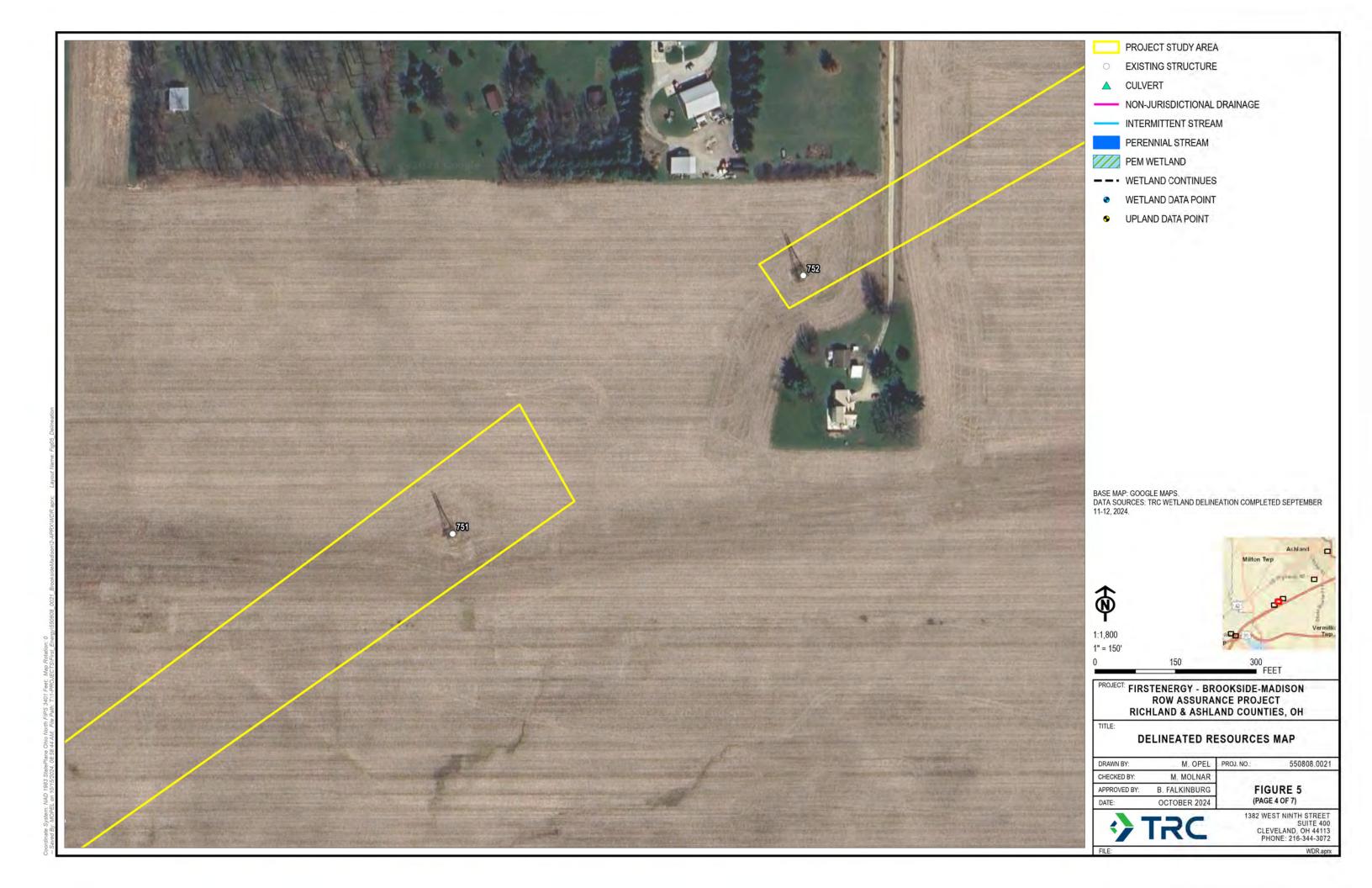
550808.0021

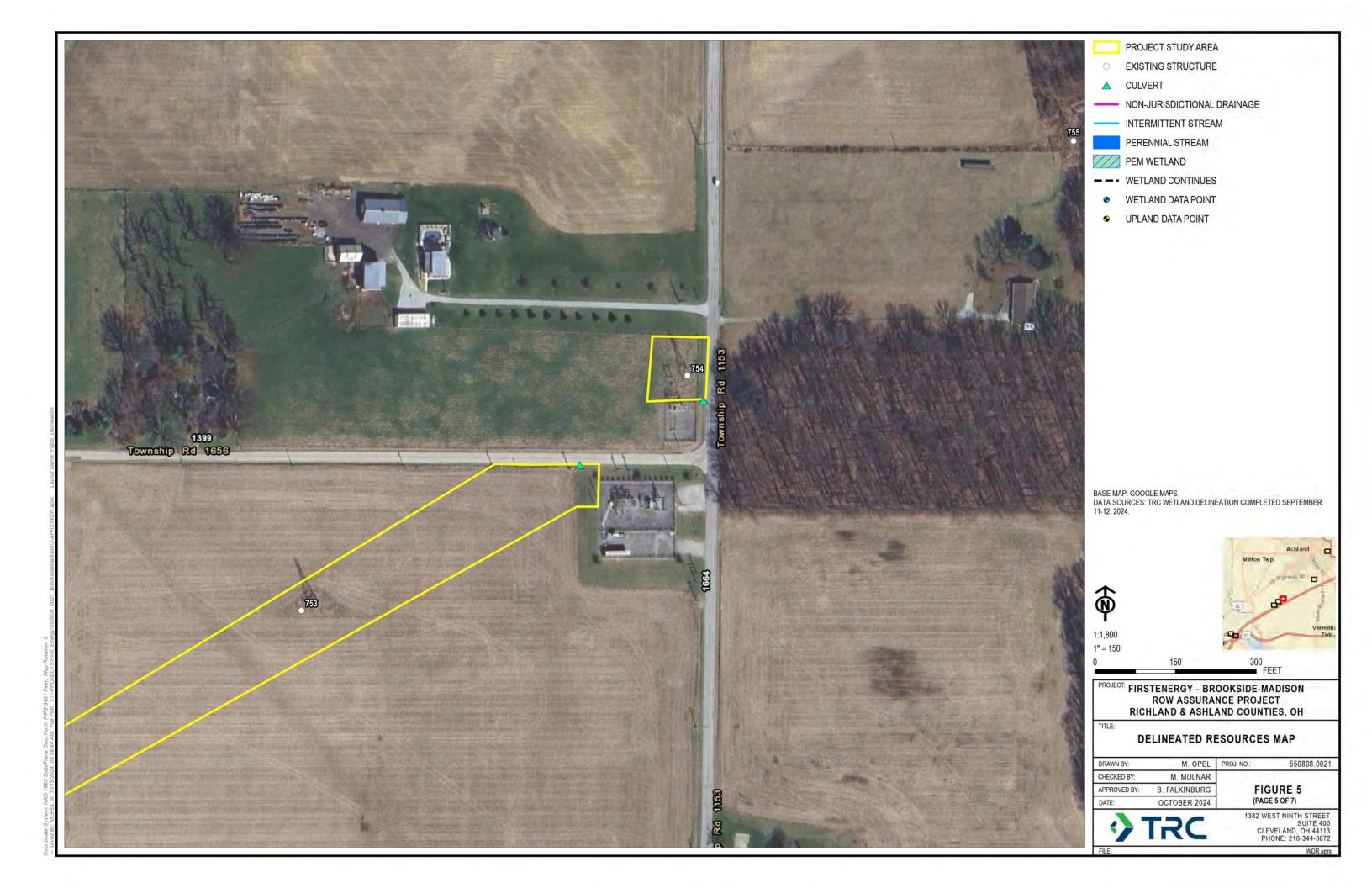


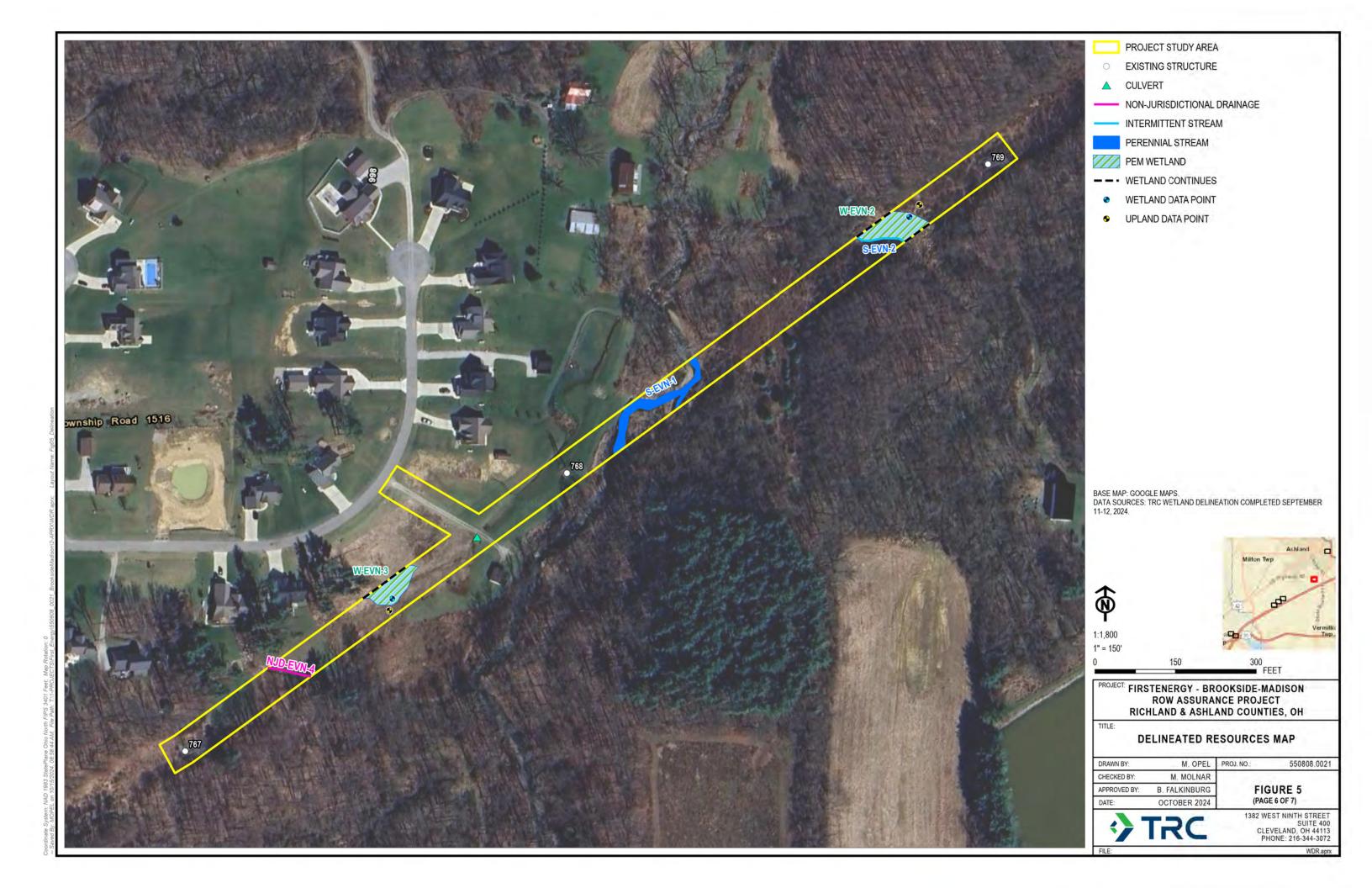


383 StatePlane Ohio North FIPS 3401 Feet; Map Rotation: 0











PROJECT STUDY AREA

EXISTING STRUCTURE

CULVERT

NON-JURISDICTIONAL DRAINAGE

INTERMITTENT STREAM

PERENNIAL STREAM



PEM WETLAND

- - WETLAND CONTINUES

WETLAND DATA POINT

UPLAND DATA POINT

BASE MAP: GOOGLE MAPS. DATA SOURCES: TRC WETLAND DELINEATION COMPLETED SEPTEMBER 11-12, 2024.



300 FEET

PROJ. NO.:

PROJECT: FIRSTENERGY - BROOKSIDE-MADISON ROW ASSURANCE PROJECT RICHLAND & ASHLAND COUNTIES, OH

DELINEATED RESOURCES MAP

	DRAWN BY:	M. OPEL
	CHECKED BY:	M. MOLNAR
	APPROVED BY:	B. FALKINBURG
	DATE	OCTOBER 2024

FIGURE 5 (PAGE 7 OF 7)

1382 WEST NINTH STREET SUITE 400 CLEVELAND, OH 44113 PHONE: 216-344-3072

550808.0021

Brookside-Madison ROW Assurance Project Surface Water Delineation – Technical Memorandum

ATTACHMENT B – Photographic Record



Brookside-Madison ROW Assurance Project

Client Name:

FirstEnergy

Site Location:

Mifflin Township in Richland County and the City of Ashland and Milton, Mifflin, and Montgomery Townships in Ashland County, Ohio

Project No.

550808.0021.0000

Photo No. 1.

Photo Date: 9/11/2024

Description:

Photo of Wetland W-EVN-1, facing north.



Photo No. 2.

Photo Date: 9/11/2024

Description:

Photo of Wetland W-EVN-1, facing east.





Brookside-Madison ROW Assurance Project

Client Name:

FirstEnergy

Site Location:

Mifflin Township in Richland County and the City of Ashland and Milton, Mifflin, and Montgomery Townships in Ashland County, Ohio

Project No.

550808.0021.0000

Photo No. 3.

Photo Date: 9/11/2024

Description:

Photo of Wetland W-EVN-1, facing south.



Photo No. 4.

Photo Date: 9/11/2024

Description:

Photo of Wetland W-EVN-1, facing west.







Client Name:

FirstEnergy

Site Location:

Mifflin Township in Richland County and the City of Ashland and Milton, Mifflin, and Montgomery Townships in Ashland County, Ohio

Project No.

550808.0021.0000

Photo No. 5.

Photo Date: 9/12/2024

Description:

Photo of Wetland W-EVN-2, facing north.



Photo No. 6.

Photo Date: 9/12/2024

Description:

Photo of Wetland W-EVN-2, facing east.





Brookside-Madison ROW Assurance Project

Client Name:

FirstEnergy

Site Location:

Mifflin Township in Richland County and the City of Ashland and Milton, Mifflin, and Montgomery Townships in Ashland County, Ohio

Project No.

550808.0021.0000

Photo No. 7.

Photo Date: 9/12/2024

Description:

Photo of Wetland W-EVN-2, facing south.



Photo No. 8.

Photo Date: 9/12/2024

Description:

Photo of Wetland W-EVN-2, facing west.





Brookside-Madison ROW Assurance Project

Client Name:

FirstEnergy

TRC

Site Location:

Mifflin Township in Richland County and the City of Ashland and Milton, Mifflin, and Montgomery Townships in Ashland County, Ohio

Project No. 550808.0021.0000

Photo No. 9.

Photo Date: 9/12/2024

Description:

Photo of Wetland W-EVN-3, facing north.



Photo No. 10.

Photo Date: 9/12/2024

Description:

Photo of Wetland W-EVN-3, facing east.







Client Name:

FirstEnergy

Site Location:

Mifflin Township in Richland County and the City of Ashland and Milton, Mifflin, and Montgomery Townships in Ashland County, Ohio

Project No.

550808.0021.0000

Photo No. 11.

Photo Date: 9/12/2024

Description:

Photo of Wetland W-EVN-3, facing south.



Photo No. 12.

Photo Date: 9/12/2024

Description:

Photo of Wetland W-EVN-3, facing west.







Client Name:

FirstEnergy

Site Location:

Mifflin Township in Richland County and the City of Ashland and Milton, Mifflin, and Montgomery Townships in Ashland County, Ohio

Project No.

550808.0021.0000

Photo No. 13.

Photo Date: 9/12/2024

Description:

Photo of Stream S-EVN-1 (Jamison Creek) looking downstream, facing northeast.



Photo No. 14.

Photo Date: 9/12/2024

Description:

Photo of Stream S-EVN-1 (Jamison Creek) looking upstream, facing west.







Client Name:

FirstEnergy

Site Location:

Mifflin Township in Richland County and the City of Ashland and Milton, Mifflin, and Montgomery Townships in Ashland County, Ohio

Project No.

550808.0021.0000

Photo No. 15.

Photo Date: 9/12/2024

Description:

Photo of the substrate within Stream S-EVN-1 (Jamison Creek).



Photo No. 16.

Photo Date: 9/12/2024

Description:

Photo of Stream S-EVN-2 looking downstream, facing west.







Client Name:

FirstEnergy

Site Location:

Mifflin Township in Richland County and the City of Ashland and Milton, Mifflin, and Montgomery Townships in Ashland County, Ohio

Project No.

550808.0021.0000

Photo No. 17.

Photo Date: 9/12/2024

Description:

Photo of Stream S-EVN-2 looking upstream, facing east.



Photo No. 18.

Photo Date: 9/12/2024

Description:

Photo of the substrate within Stream S-EVN-2.





Brookside-Madison ROW Assurance Project

Client Name:

FirstEnergy

Site Location:

Mifflin Township in Richland County and the City of Ashland and Milton, Mifflin, and Montgomery Townships in Ashland County, Ohio

Project No.

550808.0021.0000

Photo No. 19.

Photo Date: 9/11/2024

Description:

Representative photo of the agricultural land use within the Project Study Area, facing northeast.

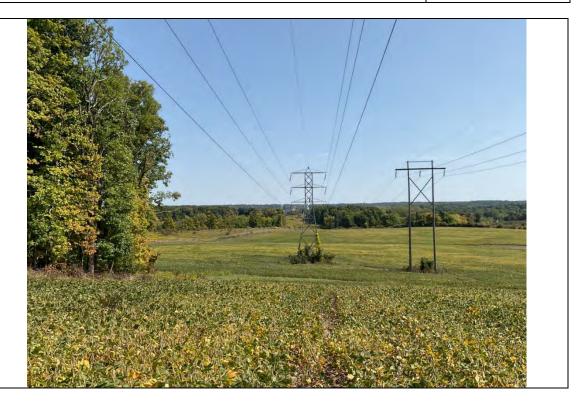


Photo No. 20.

Photo Date: 9/11/2024

Description:

Representative photo of the agricultural land use within the Project Study Area, facing southwest.







Client Name:

FirstEnergy

Site Location:

Mifflin Township in Richland County and the City of Ashland and Milton, Mifflin, and Montgomery Townships in Ashland County, Ohio

Project No.

550808.0021.0000

Photo No. 21.

Photo Date: 9/11/2024

Description:

Representative photo of the Project Study Area south of Crider Road, facing north.



Photo No. 22.

Photo Date: 9/11/2024

Description:

Representative photo of the Project Study Area south of Crider Road, facing south.







Brookside-Madison ROW Assurance Project

Client Name:

FirstEnergy

Site Location:

Mifflin Township in Richland County and the City of Ashland and Milton, Mifflin, and Montgomery Townships in Ashland County, Ohio

Project No.

550808.0021.0000

Photo No. 23.

Photo Date: 9/11/2024

Description:

Representative photo of the Project Study Area south of Township Road 1656, facing northeast.



Photo No. 24.

Photo Date: 9/11/2024

Description:

Representative photo of the Project Study Area south of Township Road 1656, facing southwest.





PHOTOGRAPHIC RECORD

Brookside-Madison ROW Assurance Project

Client Name:

FirstEnergy

Site Location:

Mifflin Township in Richland County and the City of Ashland and Milton, Mifflin, and Montgomery Townships in Ashland County, Ohio

Project No.

550808.0021.0000

Photo No. 25.

Photo Date: 9/12/2024

Description:

Representative photo of the Project Study Area near structure 768, facing northeast.



Photo No. 26.

Photo Date: 9/12/2024

Description:

Representative photo of the Project Study Area near structure 768, facing southwest.





PHOTOGRAPHIC RECORD

Brookside-Madison ROW Assurance Project

Client Name:

FirstEnergy

Site Location:

Mifflin Township in Richland County and the City of Ashland and Milton, Mifflin, and Montgomery Townships in Ashland County, Ohio

Project No.

550808.0021.0000

Photo No. 27.

Photo Date: 9/12/2024

Description:

Representative photo of the Project Study Area west of North Davis Road, facing north.



Photo No. 28.

Photo Date: 9/12/2024

Description:

Representative photo of the Project Study Area west of North Davis Road, facing south.





PHOTOGRAPHIC RECORD

Brookside-Madison ROW Assurance Project

Client Name:

FirstEnergy

Site Location:

Mifflin Township in Richland County and the City of Ashland and Milton, Mifflin, and Montgomery Townships in Ashland County, Ohio

Project No.

550808.0021.0000

Photo No. 29.

Photo Date: 9/12/2024

Description:

Representative photo of the Project Study Area north of Township Road 1706, facing east.



Photo No. 30.

Photo Date: 9/12/2024

Description:

Representative photo of the Project Study Area north of Township Road 1706, facing south.



ATTACHMENT C – Data Sheets

Brookside-Madison ROW Assurance Project Surface Water Delineation – Technical Memorandum

USACE Wetland Determination Data Forms – Northcentral Northeast Region

Project/Site: Brookside- Madison ROW Assurance Project	City/County: Mifflin To	wnship, Richland County Sam	pling Date: 2024-9-11
Applicant/Owner: FirstEnergy		OH Sampling Point: W-	
Investigator(s): Erin Van Nort, Jenna Slabe		Section, Township, Range: 08	
Landform (hillslope, terrace, etc): Depression	Local relief (concave, co	onvex, none): None	
Subregion (LRR or MLRA): MLRA 139 of LRR R		Long: -82.4210105833	Datum: WGS84
Soil Map Unit Name: Wooster silt loam, 12 to 18 percent sle		NWI Classification:	
Are climatic / hydrologic conditions on the site typical for this til			
Are Vegetation , Soil , or Hydrology sign			t? Yes 🗶 No
Are Vegetation, Soil, or Hydrologynat	urally problematic? (If	needed, explain any answers in R	
SUMMARY OF FINDINGS — Attach site map sh			
SOMMANT OF FINDINGS Attach site map sin	i i		rtant reatures, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled within a Wetlan		
Hydric Soil Present? Yes X No		id: les NO_	
Wetland Hydrology Present? Yes X No	— If yes, optional V	Vetland Site ID: W-EVN-01	
Remarks: (Explain alternative procedures here or in a separa Covertype is PEM. Based on the presence of all three paramete			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicators (m	inimum of two required)
Primary Indicators (minimum of one is required; check all that	apply)	Surface Soil Cracks	(B6)
	led Leaves (B9)	Drainage Patterns (B	
High Water Table (A2) Aquatic Fau Anal Representation (A2)		Moss Trim Lines (B1	
X Saturation (A3) Marl Depos Water Marks (B1) Hydrogen S	Gulfide Odor (C1)	Dry-Season Water Ta Crayfish Burrows (C	
	nizospheres along Living Roots		
	f Reduced Iron (C4)	Stunted or Stressed	
1 — · · · —	Reduction in Tilled Soils (C6)	★ Geomorphic Position	
	Surface (C7)	Shallow Aquitard (D3	
Inundation Visible on Aerial Imagery (B7) Other (Expl Sparsely Vegetated Concave Surface (B8)	ain in Remarks)	Microtopographic Re X FAC-Neutral Test (DS	
Sparsery vegetated concave surface (bo)			
Field Observations:			
	pth (inches):		
	pth (inches): 0		**
	pth (inches): 0 Wet	land Hydrology Present? Yes	X No
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring well, aer	al photos, previous inspections), if available:	
Remarks:			
The criterion for wetland hydrology is met.			

EGETATION — Use scientific names of plants.				Sampling Point: <u>W-EVN-01_PEM-1</u>
Tree Stratum (Plot size: 30 ft radius)		Dominant Species?		Dominance Test worksheet:
1. 2.				Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
3.				Total Number of Dominant
4.				Species Across All Strata: 1 (B)
5.				Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)
6. 7.				matare obl., facw, or fac. 10070 (A/B)
·	0	= Total	Cover	Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15 ft radius)				Total % Cover of: Multiply by:
1				OBL species 0 x 1 = 0
2.				FACW species 85 x 2 = 170
3. 4.				FAC species15 x 3 =45
5				FACU species0 x 4 =0
5.				UPL species 0 x 5 = 0
7				Column Totals:100(A)215(B)
56. 3	0	= Total	Cover	
<u>Herb Stratum</u> (Plot size: <u>5 ft radius</u>) 1. <i>Phalaris arundinacea</i>	65	Yes	FACW	Prevalence Index = B/A = 2.2
2. Persicaria perfoliata	<u></u>	No	FAC	Hydrophytic Vegetation Indicators:
3. Impatiens capensis	10	No	FACW	✗ 1 - Rapid Test for Hydrophytic Vegetation
4. Onoclea sensibilis	10	No	FACW	▼ 2 - Dominance Test is >50%
5.				X 3 - Prevalence Index is ≤3.0 ¹
6.				
7				4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
9.				Problematic Hydrophytic Vegetation ¹ (Explain)
10.				-
11				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
12				be present, amose distance of presidentation
Woody Vine Stratum (Plot size: 30 ft radius)	100	= Total	Cover	Definitions of Vegetation Strata:
1.				Tree — Woody plants 3 in. (7.6 cm) or more in
2.				diameter at breast height (DBH), regardless of height.
3.				Sapling/shrub — Woody plants less than 3 in. DBH
4				and greater than or equal to 3.28 ft (1 m) tall.
	0	= Total	Cover	Herb — All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
				Woody vines – All woody vines greater than 3.28 ft in height.
				Hydrophytic Vegetation Present? Yes No
Remarks: (Include photo numbers here or on a separate s	sheet.)			
The criterion for hydrophytic vegetation is met.				

Profile Des		o the dep				tor or o	onfirm the	absence of indicators.)
Depth	Matrix		Color (moist)	Feature %	Type ¹	1.002	Texture	Remarks
(inches) 0 to 4	Color (moist) 10YR 3/2	85	10YR 6/6	15	С	PL	Silty Clay L	
4 to 20	N 4/	100	10 111 0/0				Silty Clay L	
		· —— -			. ——		-	
-							-	
		· —— -		. ———	. ——		-	
		· —— -					-	
					- ——			
	ncentration, D=Deple	etion, RM=	Reduced Matrix, CS	S=Cover	red or Co	ated Sa	and Grains.	² Location: PL=Pore Lining, M=Matrix.
Black His Hydrogen Stratified Depleted Thick Dar Sandy Mu Sandy Gl Sandy Re Stripped I Dark Surf	A1) pedon (A2) tic (A3) Sulfide (A4) Layers (A5) Below Dark Surface (k Surface (A12) ucky Mineral (S1) eyed Matrix (S4)	RA 149B		s) urface (\$ yy Miner ed Matri ttrix (F3) Surface rk Surfa essions	S9) (LRF ral (F1) (I ix (F2)) e (F6) ace (F7) (F8)	R, MLI LRR K,	R, RA 149B) L)	ndicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Muck Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
Restrictive L	ayer (if present):							
Type: No								Hudria Cail Brasanto Vas. V
Depth (inc	nes):							Hydric Soil Present? Yes X No
Remarks: The criteri	on for hydric soil is me	et.						

WEILAND DETERMINATION DATA FORM	orthochtrar and Morthcast Neglon
Project/Site: Brookside- Madison ROW Assurance Project City/County: M	ifflin Township, Richland County Sampling Date: 2024-9-11
Applicant/Owner: FirstEnergy	State: OH Sampling Point: W-EVN-01_UPL-1
Investigator(s): Erin Van Nort, Jenna Slabe	Section, Township, Range: <u>08 23N 17W</u>
	ncave, convex, none): None Slope (%): 1 to 3
Subregion (LRR or MLRA): MLRA 139 of LRR R Lat: 40.7861	9345 Long: -82.4209069833 Datum: WGS84
Soil Map Unit Name: Wooster silt loam, 12 to 18 percent slopes, moderately ero	ded NWI Classification: None
Are climatic / hydrologic conditions on the site typical for this time of year? Yes	
Are Vegetation, Soil, or Hydrology significantly disturbed?	
Are Vegetation, Soil, or Hydrology naturally problematic?	
SUMMARY OF FINDINGS — Attach site map showing sampling	Joint locations, transects, important leatures, etc.
THYOTODOVIIC VEGETATION Present / Yes NO A	Sampled Area
Hydric Soil Present? Yes No X	a Wetland? Yes No
Watland Hydrology Drocant? Voc No Y	optional Wetland Site ID: W-EVN-01
il yes, t	pplional Welland Site ID. WELL VIVOI
Remarks: (Explain alternative procedures here or in a separate report.) Covertype is UPL. Based on the absence of all three parameters, this area is an upland.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (B9)	Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1) Outlined Phinogen Appendix (D2)	Crayfish Burrows (C8)
Sediment Deposits (B2) Drift Deposits (B3) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4)	ng Roots (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled So	<u> </u>
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes No Depth (inches):	-
Saturation Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes No 🗶
(includes capillary fringe)	-
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous ins	
Describe Necorded Data (Stream gauge, monitoring well, dental photos, previous inc	positions), ii availabio.
Remarks:	
The criterion for wetland hydrology is not met.	

EGETATION — Use scientific names of plants.				Sampling Point: <u>W-EVN-01_UPL-1</u>
Tree Stratum (Plot size: 30 ft radius)		Dominant Species?		Dominance Test worksheet:
1.	70 COVCI	Эрсскоз:	Status	Number of Dominant Species
2.				That Are OBL, FACW, or FAC: 1 (A)
3.				Total Number of Dominant
4				Species Across All Strata: 5 (B)
5.				Percent of Dominant Species That Are OBL, FACW, or FAC: 20% (A/B)
5.				That Are OBL, FACW, or FAC: 20% (A/B)
7		= Total	Cover	Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15 ft radius)		- IUIAI	Cover	Total % Cover of: Multiply by:
L.				OBL species $0 \times 1 = 0$
2.				FACW species $0 \times 2 = 0$
3.				FAC species 15 x 3 = 45
4				
5.				
5.				
7			Cover	Column Totals: 100 (A) 390 (B)
Herb Stratum (Plot size: 5 ft radius)		= Total	Cover	December 1 Index = D/A = 3.0
1. Poa annua	30	Yes	FACU	Prevalence Index = B/A = 3.9
2. Symphyotrichum ericoides	20	Yes	FACU	Hydrophytic Vegetation Indicators:
3. Solidago altissima	15	Yes	FACU	1 - Rapid Test for Hydrophytic Vegetation
4. Solidago canadensis	15	Yes	FACU	2 - Dominance Test is >50%
5. Vernonia gigantea	15	Yes	FAC	
5. Daucus carota	5	No	UPL	
7.				4 - Morphological Adaptations ¹ (Provide supporting
8				data in Remarks or on a separate sheet)
9.				Problematic Hydrophytic Vegetation ¹ (Explain)
10.				¹ Indicators of hydric soil and wetland hydrology must
11 12.				be present, unless disturbed or problematic.
	100	= Total	Cover	Politicities of Monatotics Charts
Woody Vine Stratum (Plot size: 30 ft radius)		rotar	00701	Definitions of Vegetation Strata:
l				Tree — Woody plants 3 in. (7.6 cm) or more in diameter
2				at breast height (DBH), regardless of height.
3.				Sapling/shrub — Woody plants less than 3 in. DBH
4				and greater than or equal to 3.28 ft (1 m) tall.
	0	= Total	Cover	Herb — All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
				Woody vines — All woody vines greater than 3.28 ft in height.
				Hydrophytic Vegetation Present? Yes No
				<u></u>
Remarks: (Include photo numbers here or on a separate s The criterion for hydrophytic vegetation is not met.	sheet.)			
The effection for hydrophytic vegetation is not met.				

	cription: (Describe t	o the dep		ment th		tor or c	onfirm the ab	sence of indicators.)
Depth (inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0 to 10	10YR 4/3	100					Silty Clay Loan	
					- ——			
					. ——			-
					. ——			
				. ——	- ——			· ·
	ncentration, D=Deple	etion, RM=	Reduced Matrix, CS	=Cover	ed or Co	ated Sa	and Grains.	² Location: PL=Pore Lining, M=Matrix.
Black His Hydrogen Stratified Depleted Thick Dar Sandy Mu Sandy Gl Sandy Re Stripped I Dark Surf	A1) pedon (A2) pic (A3) Sulfide (A4) Layers (A5) Below Dark Surface (k Surface (A12) picky Mineral (S1) peyed Matrix (S4)	.RA 149B)		s) urface (S xy Minera ed Matrix ttrix (F3) Surface urk Surfa essions	S9) (LRR ral (F1) (Lix (F2)) (F6) (F6) (F8)	RR, MLF	R, RA 149B) L) 	licators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Muck Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
	ayer (if present):							
Type: <u>Fill</u> Depth (inc							н	ydric Soil Present? Yes No _X
Remarks: The criteri	on for hydric soil is no	t met.						

WEIEARD DETERMINATION DATA FORM THE	rincential and Northcast Region
Project/Site: Brookside- Madison ROW Assurance Project City/County: As	hland, Ashland County Sampling Date: 2024-9-12
Applicant/Owner: FirstEnergy	State: OH Sampling Point: W-EVN-02_PEM-1
Investigator(s): Erin Van Nort, Jenna Slabe	Section, Township, Range: 29 22N 16W
Landform (hillslope, terrace, etc): Valley Local relief (con	cave, convex, none): <u>Undulating</u> Slope (%): <u>1 to 3</u>
Subregion (LRR or MLRA): MLRA 139 of LRR R Lat: 40.84192	.6 Long: <u>-82.30767855</u> Datum: <u>WGS84</u>
Soil Map Unit Name: Shoals silt loam, 0 to 2 percent slopes, occasionally flooded	NWI Classification: Riverine
Are climatic / hydrologic conditions on the site typical for this time of year? Yes 🔀	No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturbed?	Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problematic?	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS — Attach site map showing sampling p	oint locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Westland Hydrology Present? Westland Hydrology Present? Yes X No Within a	ampled Area a Wetland? Yes No ptional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.) Covertype is PEM. Based on the presence of all three parameters, this area is a wetland.	
HYDROLOGY	
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) X Surface Water (A1)	Stunted or Stressed Plants (D1)
Remarks: The criterion for wetland hydrology is met.	pections), if available:

VEGETATION — Use scientific names of plants.				Sampling Point: W-EVN-02_PEM-1
Tree Stratum (Plot size: 30 ft radius)		Dominant Species?		Dominance Test worksheet:
1	70 COVCI	<u>Opecies:</u>	Jidius	Number of Dominant Species
2.				That Are OBL, FACW, or FAC: 2 (A) Total Number of Dominant
3. 4.				Species Across All Strata: 2 (B)
5.				Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: 100% (A/B)
7	0	= Total	Cover	Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15 ft radius)			0010.	Total % Cover of: Multiply by:
1.				OBL species10 x 1 =10
2. 3.				FACW species 80 x 2 = 160
4.				FAC species10 x 3 =30
5.				FACU species0 x 4 =0
6				UPL species0 x 5 =0
7				Column Totals:(A)(B)
Herb Stratum (Plot size: 5 ft radius)		= Total	Cover	Provolence Index = P/A = 2
1. Phalaris arundinacea	60	Yes	FACW	Prevalence Index = B/A =2
2. Impatiens capensis	20	Yes	FACW	Hydrophytic Vegetation Indicators:
3. Leersia oryzoides	10	No	OBL	X 1 - Rapid Test for Hydrophytic Vegetation
4. Euthamia graminifolia	10	No	FAC	X 2 - Dominance Test is >50%
5. 6.				\mathbf{X} 3 - Prevalence Index is ≤3.0 ¹
7.				4 - Morphological Adaptations ¹ (Provide supporting
8.				data in Remarks or on a separate sheet)
9.				Problematic Hydrophytic Vegetation ¹ (Explain)
10 11.				¹ Indicators of hydric soil and wetland hydrology must
11. 12.				be present, unless disturbed or problematic.
	100	= Total	Cover	Definitions of Vegetation Strata:
Woody Vine Stratum (Plot size: 30 ft radius)				Tree — Woody plants 3 in. (7.6 cm) or more in
1.				diameter
3.				at breast height (DBH), regardless of height.
4.				Sapling/shrub — Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
	0	= lotal	Cover	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
				Woody vines — All woody vines greater than 3.28 ft in
				height.
				Hydrophytic
				Vegetation Present? Yes X No
				1103CH: 103_# NO
Remarks: (Include photo numbers here or on a separate she	et.)			
The criterion for hydrophytic vegetation is met.				

Depth	Matrix			Feature				sence of indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0 to 18	10YR 5/1	90	10YR 4/6	10	C	PL	Silty Clay Loan	
								2
	ncentration, D=Deple	etion, RM=	Reduced Matrix, CS	S=Cover	ed or Co	ated Sa		² Location: PL=Pore Lining, M=Matrix.
Black His Hydroger Stratified Depleted Thick Dar Sandy Mi Sandy Gl Sandy Re Stripped I	A1) pedon (A2) tic (A3) n Sulfide (A4) Layers (A5) Below Dark Surface k Surface (A12) ucky Mineral (S1) eyed Matrix (S4)	` ,	Polyvalue B MLRA 1498 Thin Dark S Loamy Mucl Loamy Gley Depleted Ma Redox Dark Depleted Da Redox Depr	3) urface (\$ xy Miner ed Matri atrix (F3) Surface urk Surfa	S9) (LRF al (F1) (I x (F2)) : (F6) ace (F7)	R, MLI	R, RA 149B)	icators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Muck Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
³ Indicators o	f hydrophytic vegetat	ion and w	etland hydrology mu	st be pr	esent, ur	nless dis	sturbed or probl	ematic.
Restrictive L Type: No Depth (inc			<u></u>				H	ydric Soil Present? Yes 🗶 No
Remarks: The criteri	ion for hydric soil is me	et.						

Sampling Date: 2024-9-12 Inpling Point: W-EVN-02_UPL-1 Iship, Range: 29 22N 16W Inspector Slope (%): 1 to 3 2.3076082167 Datum: WGS84 I Classification: In in Remarks.) Instances" present? Yes X No Inspector N
ship, Range: 29 22N 16W me Slope (%): 1 to 3 2.3076082167 Datum: WGS84 I Classification: in in Remarks.) istances" present? Yes X No any answers in Remarks.) isects, important features, etc.
Slope (%): 1 to 3 2.3076082167 Datum: WGS84 I Classification: In in Remarks.) I classification: I to 3 Datum: WGS84 No L classification: I
2.3076082167 Datum: WGS84 I Classification: in in Remarks.) istances" present? Yes any answers in Remarks.) sects, important features, etc.
I Classification: In in Remarks.) In in Remarks.) I classification: I classification:
n in Remarks.) stances" present? Yes No any answers in Remarks.) sects, important features, etc.
n in Remarks.) stances" present? Yes No any answers in Remarks.) sects, important features, etc.
any answers in Remarks.) sects, important features, etc.
any answers in Remarks.) sects, important features, etc.
•
•
ary Indicators (minimum of two required) face Soil Cracks (B6) inage Patterns (B10) is Trim Lines (B16) Season Water Table (C2) ifish Burrows (C8) irration Visible on Aerial Imagery (C9) inted or Stressed Plants (D1) imorphic Position (D2) illow Aquitard (D3) rotopographic Relief (D4) is Neutral Test (D5)
Duranto Var
Present? Yes No X

EGETATION — Use scientific names of plants.				Sampling Point: <u>W-EVIN-02_UPL-1</u>
Tree Stratum (Plot size: 30 ft radius)		Dominant Species?		Dominance Test worksheet:
1.	% Cover	Species?	Status	Number of Dominant Species
2.			-	That Are OBL, FACW, or FAC: 0 (A)
3.				Total Number of Dominant
4.				Species Across All Strata: 5 (B)
5.				Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: 0% (A/B)
7				Prevalence Index worksheet:
Continue (Charles Charles (Diet circo, 15 ft radius	0	= Total	Cover	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 ft radius) 1. Rosa multiflora	25	Yes	FACU	
Rosa multipora Rubus allegheniensis		Yes	FACU	
3.		100	17100	FACW species x 2 = 0
4.				FAC species x 3 = 0
5.				FACU species80 x 4 =320
6.				UPL species0 x 5 =0
7.				Column Totals: 80 (A) 320 (B)
	40	= Total	Cover	
Herb Stratum (Plot size: 5 ft radius)				Prevalence Index = $B/A = 4$
1. Solidago canadensis	15	Yes	FACU	Hydrophytic Vegetation Indicators:
2. Solidago altissima		Yes	FACU	
3. Symphyotrichum ericoides		Yes	FACU	1 - Rapid Test for Hydrophytic Vegetation
4. Agrostis perennans	5	No	FACU	2 - Dominance Test is >50%
5		. ———		_ 3 - Prevalence Index is $\leq 3.0^1$
6				. 4 - Morphological Adaptations ¹ (Provide supporting
7 8.				data in Remarks or on a separate sheet)
9.				Problematic Hydrophytic Vegetation ¹ (Explain)
10.				
11.				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
12.				be present, unless distarsed or presionation
	40	= Total	Cover	Definitions of Vegetation Strata:
Woody Vine Stratum (Plot size: 30 ft radius)				Tree — Woody plants 3 in. (7.6 cm) or more in
1.				diameter
2. 3.				at breast height (DBH), regardless of height.
3. 4.				Sapling/shrub — Woody plants less than 3 in. DBH
+		= Total	Cover	and greater than or equal to 3.28 ft (1 m) tall.
		– IUIAI	Covei	Herb — All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
				Woody vines — All woody vines greater than 3.28 ft in height.
				Hydrophytic Vegetation Present? Yes No
Remarks: (Include photo numbers here or on a separate sl	heet.)			
The criterion for hydrophytic vegetation is not met.				

Profile Desc		o the depth				tor or c	onfirm the a	osence of indicators.)
Depth	Matrix Color (moist)		Color (moist)	Feature %	es Type ¹	1.002	Texture	Remarks
(inches) 0 to 4	Color (moist) 10YR 4/3	100	Color (moist)	90	туре	LUC	Silty Clay Loa	
	_							
		-					_	
¹ Type: C=Co	ncentration, D=Deple	tion, RM=R	educed Matrix, CS	=Cover	ed or Co	ated Sa	and Grains.	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil II								dicators for Problematic Hydric Soils ³ :
Histosol (A	A1) pedon (A2)		Polyvalue Be MLRA 149B		face (S8	3) (LRR	R, _	2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)
Black Hist	tic (A3)		Thin Dark Su	rface (S				5 cm Muck Peat or Peat (S3) (LRR K, L, R)
	Sulfide (A4) Layers (A5)		Loamy Muck Loamy Gleye			_RR K, I	L) _	Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L)
Depleted	Below Dark Surface ((A11)	Depleted Ma	trix (F3)			_	Thin Dark Surface (S9) (LRR K, L)
_	k Surface (A12) Icky Mineral (S1)		Redox Dark : Depleted Dark :				_	Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy Gle	eyed Matrix (S4)		Redox Depre				_	Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy Re	dox (S5) Matrix (S6)						_	Red Parent Material (F21) Very Shallow Dark Surface (TF12)
	ace (S7) (LRR R, ML	RA 149B)					_	Other (Explain in Remarks)
³ Indicators of	hydrophytic vegetati	on and wetl	and hydrology mus	st be pre	esent, ur	ıless dis	turbed or pro	olematic.
Restrictive L	ayer (if present):							
Type: <u>Gra</u> Depth (inc								Hydric Soil Present? Yes No 🗶
. ,	nes). <u>4</u>							nyuric son Present? res No
Remarks: The criteri	on for hydric soil is not	met.						
	,							

WEIEARD DETERMINATION DATA FORM	vortheentral and Wortheast Region
Project/Site: Brookside- Madison ROW Assurance Project City/County: A	Ashland, Ashland County Sampling Date: 2024-9-12
Applicant/Owner: FirstEnergy	State: OH Sampling Point: W-EVN-03_PEM-1
Investigator(s): Erin Van Nort, Jenna Slabe	Section, Township, Range: 29 22N 16W
	oncave, convex, none): None Slope (%): 0 to 1
Subregion (LRR or MLRA): MLRA 139 of LRR R Lat: 40.839	988 Long: <u>-82.311153</u> Datum: <u>WGS84</u>
Soil Map Unit Name: Shoals silt loam, 0 to 2 percent slopes, occasionally flood	ed NWI Classification: None
Are climatic / hydrologic conditions on the site typical for this time of year? Yes	
Are Vegetation, Soil, or Hydrology significantly disturbed?	
Are Vegetation, Soil, or Hydrology naturally problematic?	
SUMMARY OF FINDINGS — Attach site map showing sampling	point locations, transects, important leatures, etc.
I HVOTODOVIIC VEGETATION PRESENTZ YES A NO	Sampled Area
Hydric Soil Present? Yes X No Within	n a Wetland? Yes 🗶 No
Wetland Hydrology Present? Ves Y No	optional Wetland Site ID: W-EVN-03
II yes,	optional Wetland Site ID. WILL VIV-03
Remarks: (Explain alternative procedures here or in a separate report.)	
Covertype is PEM. Based on the presence of all three parameters, this area is a wetland	1.
coverey pe to 1 21/11 2 about on the presence of all times parameters, and area to a westant	••
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (B9)	Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2) X Oxidized Rhizospheres along Liv	
Drift Deposits (B3) Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled S	
Iron Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Shallow Aquitard (D3) X Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
	<u></u>
Field Observations:	
Surface Water Present? Yes No 🗶 Depth (inches):	
Water Table Present? Yes No X Depth (inches):	_
Saturation Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous in	nspections), if available:
Remarks:	
The criterion for wetland hydrology is met.	

EGETATION – Use scientific names of plants.				Sampling Point: <u>W-EVN-03_PEM-1</u>
Tree Stratum (Plot size: 30 ft radius)		Dominant Species?		Dominance Test worksheet:
1 2.				Number of Dominant Species That Are OBL, FACW, or FAC: 6 (A)
				Total Number of Dominant
4.				Species Across All Strata: 6 (B)
5.				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 100% (A/B)
7				Prevalence Index worksheet:
Conline/Chruh Ctrotum (Diet eizer 15 ft radius)	0	= Total	Cover	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 ft radius) 1.				
n	<u> </u>			'
z				FACW species $30 \times 2 = 60$
4.				FAC species15 x 3 =45
5.				FACU species 0 x 4 = 0
6.				UPL species0 x 5 =0
7				Column Totals:100 (A)160 (B)
	0	= Total	Cover	
Herb Stratum (Plot size: 5 ft radius)				Prevalence Index = $B/A = 1.6$
1. Glyceria striata	20	Yes	OBL	Hydrophytic Vegetation Indicators:
2. Apocynum cannabinum	15	Yes	FAC	
3. Carex lupuliformis	15	Yes	OBL	1 - Rapid Test for Hydrophytic Vegetation
4. Carex scoparia	15	Yes	FACW	X 2 - Dominance Test is >50%
5. Juncus effusus	15	Yes	OBL	3 - Prevalence Index is ≤3.0 ¹
6. Phalaris arundinacea	15	Yes	FACW	4 - Morphological Adaptations ¹ (Provide supporting
7. Scirpus atrovirens	5	No	OBL	data in Remarks or on a separate sheet)
8. 9.				Problematic Hydrophytic Vegetation ¹ (Explain)
10 11				¹ Indicators of hydric soil and wetland hydrology must
12.				be present, unless disturbed or problematic.
	100	= Total	Cover	Definitions of Vegetation Strata:
Woody Vine Stratum (Plot size: 30 ft radius)				Tree – Woody plants 3 in. (7.6 cm) or more in
1.				diameter
2				at breast height (DBH), regardless of height.
3				Sapling/shrub — Woody plants less than 3 in. DBH
4				and greater than or equal to 3.28 ft (1 m) tall.
	0	= Total	Cover	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
				Woody vines — All woody vines greater than 3.28 ft in height.
				Hydrophytic Vegetation Present? Yes X No
Remarks: (Include photo numbers here or on a separate s	heet.)			
The criterion for hydrophytic vegetation is met.				

	cription: (Describe to	o the dep		ment th		tor or c	onfirm the ab	sence of indicators.)
Depth (inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0 to 10	10YR 4/1	85	10YR 4/6	15	C	PL	Silty Clay Loan	
10 to 20	10YR 7/1	65	10YR 5/8	35	С	M	Silty Clay Loan	1
				_				
								-
				-				-
¹ Type: C=Co	ncentration, D=Deple	tion, RM=	Reduced Matrix, CS	S=Cover	red or Co	ated Sa	and Grains.	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil I								icators for Problematic Hydric Soils ³ :
Histosol (A1) pedon (A2)		Polyvalue Be		rface (S8	3) (LRR	R,	2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)
Black His	tic (A3)		Thin Dark S	urface (S				5 cm Muck Peat or Peat (S3) (LRR K, L, R)
	Sulfide (A4) Layers (A5)		Loamy Muck Loamy Gley			RR K,	L)	Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L)
	Below Dark Surface (A11)	Depleted Ma				_	Thin Dark Surface (S9) (LRR K, L)
	k Surface (A12)		Redox Dark				_	Iron-Manganese Masses (F12) (LRR K, L, R)
	ıcky Mineral (S1) eyed Matrix (S4)		Depleted Da				_	Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy Re	edox (S5)				,		_	Red Parent Material (F21)
	Matrix (S6) ace (S7) (LRR R, ML	RA 149B	\				_	Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
	f hydrophytic vegetati			st be pr	esent, ur	ıless dis	 sturbed or probl	
Restrictive L	_ayer (if present):							
Type: Not	t present							
Depth (inc	hes):						H	ydric Soil Present? Yes X No
Remarks:								
The criteri	on for hydric soil is me	t.						

WEIEARD DETERMINATION DATATION	iorthechtral and Northeast Neglon
Project/Site: Brookside- Madison ROW Assurance Project City/County: A	Ashland, Ashland County Sampling Date: 2024-9-12
Applicant/Owner: FirstEnergy	State: OH Sampling Point: W-EVN-03_UPL-1
Investigator(s): Erin Van Nort, Jenna Slabe	Section, Township, Range: 29 22N 16W
	oncave, convex, none): None Slope (%): 1 to 3
Subregion (LRR or MLRA): MLRA 139 of LRR R Lat: 40.8399	928 Long: -82.311181 Datum: WGS84
Soil Map Unit Name: Wooster silt loam, 12 to 18 percent slopes, eroded	
Are climatic / hydrologic conditions on the site typical for this time of year? Yes	
Are Vegetation, Soil, or Hydrology significantly disturbed?	
Are Vegetation, Soil, or Hydrology naturally problematic?	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS — Attach site map showing sampling	point locations, transects, important leatures, etc.
I HVOTODOVIIC VEGETATION PRESENTZ YES NO A	Sampled Area
Hydric Soil Present? Yes No X	a Wetland? Yes No X
I Watland Hydrology Present? Vac No ¥	optional Wetland Site ID:
ıı yes,	optional Wetland Site ID.
Remarks: (Explain alternative procedures here or in a separate report.) Covertype is UPL. Based on the absence of all three parameters, this area is an upland.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (B9)	Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres along Liv Presence of Reduced Iron (C4)	ing Roots (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled S	
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations	
Field Observations: Surface Water Present? Yes No _ X Depth (inches):	
Water Table Present? Yes No X Depth (inches):	_
Saturation Present? Yes No Depth (inches):	── Wetland Hydrology Present? Yes No 🗶
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous in	proportions) if available:
Describe Recorded Data (stream gauge, monitoring well, aerial priotos, previous in	ispections), if available.
Remarks:	
The criterion for wetland hydrology is not met.	

EGETATION — Use scientific names of plants.				Sampling Point: <u>W-EVIN-03_UPL-1</u>
Tree Stratum (Plot size: 30 ft radius)		Dominant Species?		Dominance Test worksheet:
1.	70 COVCI	Эрсскоз:	Status	Number of Dominant Species
2.				That Are OBL, FACW, or FAC: 0 (A)
3				Total Number of Dominant Species Across All Strata: 2 (B)
4. -				()
5.				Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/B)
5. 7.				(11) (11) (11) (11) (11) (11) (11) (11)
··		= Total	Cover	Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15 ft radius)		Total	00101	Total % Cover of: Multiply by:
l				OBL species $0 \times 1 = 0$
2.				FACW species 0 x 2 = 0
3				FAC species 0 x 3 = 0
1. -				FACU species 100 x 4 = 400
5.				$\begin{array}{cccc} & & & & & & & & & & & & & & & & & $
6. 7.	_			
	0	= Total	Cover	Column Totals:(A)(B)
Herb Stratum (Plot size: 5 ft radius)		- 10141	Cover	Prevalence Index = B/A = _4
1. Agrostis perennans	45	Yes	FACU	Prevalence muex – D/A –
2. Symphyotrichum ericoides	25	Yes	FACU	Hydrophytic Vegetation Indicators:
3. Plantago lanceolata	10	No	FACU	1 - Rapid Test for Hydrophytic Vegetation
4. Solidago altissima	10	No	FACU	2 - Dominance Test is >50%
5. Trifolium repens	10	No	FACU	3 - Prevalence Index is ≤3.0 ¹
6.				
7.				4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
8.				
9.				_ Problematic Hydrophytic Vegetation ¹ (Explain)
10 11.				¹ Indicators of hydric soil and wetland hydrology must
11. 12.				be present, unless disturbed or problematic.
	100	= Total	Cover	Definitions of Versatation Canada
Woody Vine Stratum (Plot size: 30 ft radius)				Definitions of Vegetation Strata:
1				Tree — Woody plants 3 in. (7.6 cm) or more in diameter
2				at breast height (DBH), regardless of height.
3.				Sapling/shrub — Woody plants less than 3 in. DBH
4				and greater than or equal to 3.28 ft (1 m) tall.
	0	= Total	Cover	Herb — All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
				Woody vines — All woody vines greater than 3.28 ft in height.
				Hydrophytic Vegetation Present? Yes No
Remarks: (Include photo numbers here or on a separate sh	neet.)			
The criterion for hydrophytic vegetation is not met.	,			

	cription: (Describe t	o the dep		ment th		tor or c	onfirm the ab	sence of indicators.)
Depth (inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0 to 12	10YR 6/4	100					Silty Clay Loan	
				. ——			-	
					- —			
					- ——			
		· ——— —						
				. ——	- ——		-	
		. — — —					-	
	ncentration, D=Deple	tion, RM=	Reduced Matrix, CS	S=Cover	ed or Co	ated Sa	and Grains.	² Location: PL=Pore Lining, M=Matrix.
Black Hist Hydrogen Stratified Depleted Thick Dar Sandy Mu Sandy Gle Sandy Re Stripped M Dark Surf	A1) pedon (A2) pic (A3) Sulfide (A4) Layers (A5) Below Dark Surface (k Surface (A12) picky Mineral (S1) peyed Matrix (S4)	.RA 149B)		B) urface (S xy Minera ed Matrix ed Matrix (F3) Surface urk Surfa essions	S9) (LRR ral (F1) (Lix (F2)) e (F6) ace (F7) (F8)	RR, MLF	R, RA 149B) L) 	dicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Muck Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
Restrictive L	ayer (if present):							
Type: <u>Fill</u> Depth (inc							н	ydric Soil Present? Yes No 🗶
	1103). 12							yune son resent: res No
Remarks: The criteri	on for hydric soil is no	: met.						

Brookside-Madison ROW Assurance Project
Surface Water Delineation – Technical Memorandum

USACE Wetland Determination Data Form – Midwest Region

WETLAND DETERMINATION DATA FORM — Midwest Region

Project/Site: Brookside- Madison ROW Assurance Project	City/	County: A	shland. As	shland County Sampling Date: 2024-9-12
*				OH Sampling Point: ROP-EVN-01
Investigator(s): Frin Van Nort, Johns Slabo				Section, Township, Range: 16 22N 16W
				ncave, convex, none): None
Slope (%): <u>0 to 1</u> Lat: <u>40.869213</u>		Long: _	-82.29243	Datum: WGS84
Soil Map Unit Name: Rittman silt loam, 2 to 6 percent slope				NWI Classification: None
Are climatic / hydrologic conditions on the site typical for this til				
Are Vegetation, Soil, or Hydrology sign Are Vegetation, Soil, or Hydrology nat	nificantly dis	sturbed?	Are	"Normal Circumstances" present? Yes X No No
SUMMARY OF FINDINGS — Attach site map she	owing sa	mpling	point lo	cations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No No No X		Is the	Sampled A	Area
Hydric Soil Present? Yes No X Wetland Hydrology Present? Yes No X			a Wetland	
Remarks: Covertype is UPL. Based on the absence of two of three parameters.	eters, this are	ea is an upla	nd.	
coretype is 6127 Based on the absence of two of three parameters	rers, and are	ca 10 air apra		
VEGETATION — Use scientific names of plants				
Tree Stratum (Plot size: 30 ft radius)		Dominant Species?		Dominance Test worksheet:
1.	70 COVEL	Species:	Status	Number of Dominant Species
2.				That Are OBL, FACW, or FAC: $\underline{1}$ (A)
3.				Total Number of Dominant
4.				Species Across All Strata: 1 (B)
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)
	0	= Total	Cover	
Sapling/Shrub Stratum (Plot size: 15 ft radius)				Prevalence Index worksheet:
1.				Total % Cover of: Multiply by:
2				OBL species x 1 = 0
3. 4.				FACW species x 2 = 140
5.				FAC species x 3 = 0
	0	= Total	Cover	FACU species30 x 4 =120
Herb Stratum (Plot size: 5 ft radius)				UPL species0 x 5 =0
1. Phalaris arundinacea	70	Yes	FACW	Column Totals:100 (A)260 (B)
2. Solidago canadensis	15	No	FACU	
3. Solidago altissima	10	No	FACU	Prevalence Index = $B/A = 2.6$
4. Cirsium vulgare	5	No	FACU	Hydrophytic Vegetation Indicators:
5				✗ 1 - Rapid Test for Hydrophytic Vegetation
6.				✓ 2 - Dominance Test is >50%
7. 8.				
0				
10.				4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
	100	= Total	Cover	, , ,
Woody Vine Stratum (Plot size: 30 ft radius)			0010.	Problematic Hydrophytic Vegetation ¹ (Explain)
1.				¹ Indicators of hydric soil and wetland hydrology must
2				be present, unless disturbed or problematic.
	0	= Total	Cover	Hydrophytic
				Vegetation
				Present? Yes X No
Domorko				
Remarks: The criterion for hydrophytic vegetation is met.				
- x				

SOIL Sampling Point: ROP-EVN-01 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Denth Type¹ % (inches) Color (moist) Color (moist) Texture Remarks 0 to 12 10YR 6/4 100 Sandy Clay Loam 100 12 to 20 10YR 7/2 Silty Clay Loam ²Location: PL=Pore Lining, M=Matrix. ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) Dark Surface (S7) Iron-Manganese Masses (F12) Black Histic (A3) Stripped Matrix (S6) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) 2 cm Muck (A10) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) ³Indicators of hydrophytic vegetation and Thick Dark Surface (A12) Depleted Dark Surface (F7) wetland hydrology must be present, Sandy Mucky Mineral (S1) Redox Depressions (F8) unless disturbed or problematic. 5 cm Muck Peat or Peat (S3) Restrictive Layer (if present): Type: Not present Depth (inches): Hydric Soil Present? Yes Remarks: The criterion for hydric soil is not met. **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table (C2) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Water Marks (B1) Sediment Deposits (B2) Oxidized Rhizospheres along Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Algal Mat or Crust (B4) X FAC-Neutral Test (D5) Iron Deposits (B5) Thin Muck Surface (C7) Gauge or Well Data (D9) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? No Depth (inches): Yes Wetland Hydrology Present? Yes No 🗶 Saturation Present? Depth (inches): No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

The criterion for wetland hydrology is not met.

Remarks:

OEPA ORAM Data Forms

selective cutting

toxic pollutants

woody debris removal

dredging

nutrient enrichment

farming

27

subtotal this page

0	27	Metric 5. Special Wetlar Check all that apply and score as indicated.
nax 10 pts.	subtotal	Bog (10) Fen (10)
		(==)

Old growth forest (10) Mature forested wetland (5) Lake Erie coastal/tributary wetland-unrestricted hydrology (10) Lake Erie coastal/tributary wetland-restricted hydrology (5) Lake Plain Sand Prairies (Oak Openings) (10) Relict Wet Prairies (10) Known occurrence state/federal threatened or endangered species (10) Significant migratory songbird/water fowl habitat or usage (10) Category 1 Wetland. See Question 1 Qualitative Rating (-10)

1	28
max 20 pts.	subtotal

Metric 6. Plant communities, interspersion, microtopography.

6a. Wetland Vegetation Communities. Score all present using 0 to 3 scale

LU	ie ai	i present using 0 to 3 scale.
		Aquatic Bed
	1	Emergent
	0	Shrub
		Forest
		Mudflats
		Open water
		Other

6b. horizontal (plan view) Interspersion. Select only one.

	High (5)
	Moderately high (4)
	Moderate (3)
×	Moderately low (2)
	Low (1)
	None (0)

6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage

	Extensive >75% cover (-5)
×	Moderate 25-75% cover (-3)
	Sparse 5-25% cover (-1)
	Nearly absent <5% cover (0)
	Absent (1)

6d. Microtopography.

Score all present using 0 to 3 scale.

0	Vegetated hummucks/tussucks
	Coarse woody debris >15cm (6in)
	Standing dead >25cm (10in) dbh
0	Amphibian breeding pools

	rogotation con	imianity corol could
-	0	Absent or comprises <0.1ha (0.2471 acres) contiguous area
-	1	Present and either comprises small part of wetland's vegetation and is of moderate quality, or comprises a significant part but is of low quality
	2	Present and either comprises significant part of wetland's vegetation and is of moderate quality or comprises a small part and is of high quality
	3	Present and comprises significant part, or more, of wetland's vegetation and is of high quality

Narrative Desc	ription of	Vegetation	Quality
Laure	1	alliana na ita a ana	-1/

Marianve Desc	variative bescription of vegetation Quanty		
low	Low spp diversity and/or predominance of nonnative or disturbance tolerant native species		
mod	Native spp are dominant component of the vegetation, although nonnative and/or disturbance tolerant native spp can also be present, and species diversity moderate to moderately high, but generally w/o presence of rare threatened or endangered spp		
high	A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp		

Mudflat and Open Water Class Quality

0	Absent <0.1ha (0.247 acres)
1	Low 0.1 to <1ha (0.247 to 2.47 acres)
2	Moderate 1 to <4ha (2.47 to 9.88 acres)
3	High 4ha (9.88 acres) or more

Microtopography Cover Scale

0	Absent
1	Present very small amounts or if more common of marginal quality
2	Present in moderate amounts, but not of highest quality or in small amounts of highest quality
3	Present in moderate or greater amounts and of highest quality
	0 1 2 3

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CATEGORY 1

End of Quantitative Rating. Complete Categorization Worksheets.



Sco<u>re all</u> present using 0 to 3 scale.

0	Vegetated hummucks/tussucks
	Coarse woody debris >15cm (6in)
0	Standing dead >25cm (10in) dbh
0	Amphibian breeding pools

	0	Absent <0.1ha (0.247 acres)
	1	Low 0.1 to <1ha (0.247 to 2.47 acres)
	2	Moderate 1 to <4ha (2.47 to 9.88 acres)
Ī	3	High 4ha (9.88 acres) or more

Microtopography Cover Scale

0	Absent
1	Present very small amounts or if more common of marginal quality
2	Present in moderate amounts, but not of highest quality or in small amounts of highest quality
3	Present in moderate or greater amounts and of highest quality

37 CATEGORY 2

End of Quantitative Rating. Complete Categorization Worksheets.



Site: FirstEnergy, Brookside-Madison ROW Assurance Project Rater(s): Erin Van Nort, Jenna Slabe Date: 2024-09-12				
1	1	М	etric 1. Wetland Area (size).	
1	Т	Select one size class and assign score.		
max 6 pts.	subtotal		>50 acres (>20.2ha) (6 pts)	
			25 to <50 acres (10.1 to <20.2ha) (5 pts)	
			10 to <25 acres (4 to <10.1ha) (4 pts)	
			3 to <10 acres (1.2 to <4ha) (3 pts) 0.3 to <3 acres (0.12 to <1.2ha) (2pts)	
			X 0.1 to <0.3 acres (0.04 to <0.12ha) (1 pt)	
			<0.1 acres (0.04ha) (0 pts)	
4		М	etric 2. Upland buffers and surrounding land use.	
4	5		Calculate average buffer width. Select only one and assign score. Do not double check.	
max 14 pts.	subtotal		WIDE. Buffers average 50m (164ft) or more around wetland perimeter (7)	
			MEDIUM. Buffers average 25m to <50m (82 to <164ft) around wetland perimeter (4)	
			NARROW. Buffers average 10m to <25m (32ft to <82ft) around wetland perimeter (1)	
		OI-	VERY NARROW. Buffers average <10m (<32ft) around wetland perimeter (0)	
		∠D.	Intensity of surrounding land use. Select one or double check and average. VERY LOW. 2nd growth or older forest, prairie, savannah, wildlife area, etc. (7)	
			LOW. Old field (>10 years), shrub land, young second growth forest. (5)	
			MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow field. (3)	
			HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1)	
	1 /	М	etric 3. Hydrology.	
9	14		Sources of Water. Score all that apply. 3b. Connectivity. Score all that apply.	
max 30 pts.	subtotal		High pH groundwater (5)	
			Other groundwater (3) Between stream/lake and other human use (1)	
			Precipitation (1) Part of wetland/upland (e.g. forest), complex (1)	
			Seasonal/Intermittent surface water (3) Part of riparian or upland corridor (1) Percepcial surface water (lake or stroom) (5) Add Duration in underline (extraction Searce one or discharge the chock	
		30	Perennial surface water (lake or stream) (5) Maximum water depth. Select only one and assign score. 3d. Duration inundation/saturation. Score one or dbl check. Semi- to permanently inundated/saturated (4)	
		JC.	>0.7 m (>27.6 in) (3) Regularly inundated/saturated (3)	
			0.4 to 0.7 m (15.7 to 27.6 in) (2) Seasonally inundated (2)	
		3e.	Modifications to natural hydrologic regime. Score one or double check and average.	
			None or none apparent (12) Check all disturbances observed	
			Recovered (7)	
			Recovering (3) tile # filling/grading	
			Recent or no recovery (1) dike road bed/RR track	
			weir dredging	
			stormwater input other	
		Ιм	etric 4. Habitat Alteration and Development.	
9	23		Substrate disturbance. Score one or double check and average.	
max 20 pts.	subtotal	4a.	None or none apparent (4)	
			Recovered (3)	
			Recovering (2)	
			Recent or no recovery (1)	
		4b.	Habitat development. Select only one and assign score.	
			Excellent (7) Very good (6)	
			Good (5)	
			Moderately good (4)	
			Fair (3)	
			Poor to fair (2)	
		40	Poor (1) Habitat alteration. Score one or double check and average.	
		40.	None or page apparent (0)	
			Circk air distarbances observed	
			inowing striub/saping removal	
			Decent or no receivery (1)	
_		1	Clear Cutting Sedimentation	
	23		selective cutting dredging	
			woody debris removal farming toxic pollutants nutrient enrichment	
subto	tal this page	:		

Site:	FirstEne	rgy, Bro	ookside-Madison ROW Assura	ance Project	Rater(s): Erin Van Nort, Jenna Slabe	Date: 2024-09-12			
	23								
Į									
	subtotal first pa	-	ric 5. Special Wetlan	nds.					
0	23		all that apply and score as indicated.	iasi					
max 10 pts	. subtotal		Bog (10)						
			Fen (10) Old growth forest (10)						
			Mature forested wetland (5)						
			Lake Erie coastal/tributary wetland-						
			Lake Erie coastal/tributary wetland- Lake Plain Sand Prairies (Oak Oper		logy (5)				
			Relict Wet Prairies (10)	iiigs) (10)					
			Known occurrence state/federal threatened or endangered species (10)						
			Significant migratory songbird/water Category 1 Wetland. See Question	vater fowl habitat or usage (10)					
		Met			erspersion, microtopograph	1 1/			
-2	21		etland Vegetation Communities.	-		ıy.			
max 20 pts	. subtotal		all present using 0 to 3 scale.		Community Cover Scale				
		_	Aquatic Bed	0 1	Absent or comprises <0.1ha (0.2471 acre				
		1	Emergent Shrub	1	Present and either comprises small part of vegetation and is of moderate quality, or				
			Forest		significant part but is of low quality	рого п			
			Mudflats	2	Present and either comprises significant				
			Open water Other		vegetation and is of moderate quality or part and is of high quality	comprises a small			
		6b. hor	rizontal (plan view) Interspersion.	3	Present and comprises significant part, o	r more, of wetland's			
		Select	only one.		vegetation and is of high quality				
			High (5) Moderately high (4)	Narrative Description of Vegetation Quality					
			Moderate (3)	low	Low spp diversity and/or predominance of	f nonnative or			
		_	_Moderately low (2) Low (1)		disturbance tolerant native species				
		×	None (0)	mod	Native spp are dominant component of the although nonnative and/or disturbance to				
			verage of invasive plants. Refer		can also be present, and species divers				
			e 1 ORAM long form for list. Add uct points for coverage		moderately high, but generally w/o prese	ence of rare			
			Extensive >75% cover (-5)	high	threatened or endangered spp	annativa ann			
		×	Moderate 25-75% cover (-3)	high	A predominance of native species, with n and/or disturbance tolerant native spp a				
			Sparse 5-25% cover (-1) Nearly absent <5% cover (0)		absent, and high spp diversity and often	, but not always,			
			Absent (1)		the presence of rare, threatened, or end	angered spp			
			crotopography. all present using 0 to 3 scale.	Mudflat and Open Water Class Quality					
			Vegetated hummucks/tussucks	0	Absent <0.1ha (0.247 acres)				
		0	Coarse woody debris >15cm (6in)	1	Low 0.1 to <1ha (0.247 to 2.47 acres)				
		0	Standing dead >25cm (10in) dbh Amphibian breeding pools	2	Moderate 1 to <4ha (2.47 to 9.88 acres)				
		U	_Amphibian breeding pools	3	High 4ha (9.88 acres) or more				
					raphy Cover Scale				
				0	Absent				
				1	Present very small amounts or if more co of marginal quality				
				2	Present in moderate amounts, but not of quality or in small amounts of highest qu				
	_			3	Present in moderate or greater amounts and of highest quality				
21		CA	TEGORY 1						

End of Quantitative Rating. Complete Categorization Worksheets.



OEPA QHEI Data Form



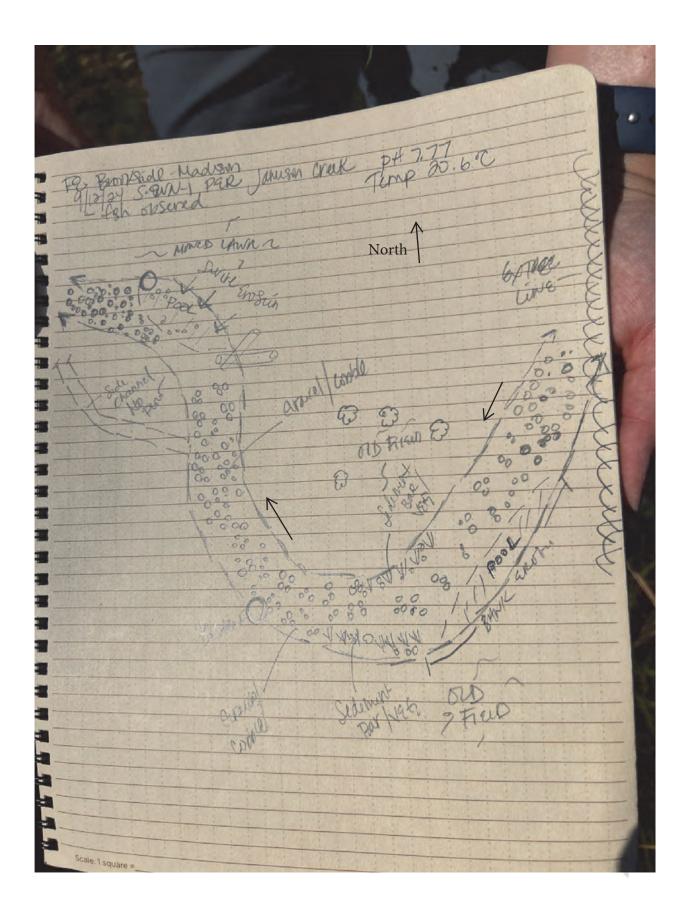
Qualitative Habitat Evaluation Index and Use Assessment Field Sheet

QHEI Score: 61.5

Stream & Location: S-EVN-1 (Jamison Creek)	<i>RM:</i> 3.20	Date: 9/12	2/2024
FirstEnergy, Brookside-Madison ROW Assurance Project Scorers Full Name & Affiliation:	E. Van Nort & J. Slab		
River Code: STORET #: Lat./ Long.: 40.840977	/ / -82.309)45 ⊕	ce verified location
BEST TYPES POOL RIFFLE OTHER TYPES POOL RIFFLE ORIGIN BLDR /SLABS [10]	SILT E	QUALITY HEAVY [-2] MODERATE [-1] NORMAL [0]	16
2] INSTREAM COVER Indicate presence 0 to 3: 0-Absent; 1-Very small amounts or if more common quality; 2-Moderate amounts, but not of highest quality or in small amounts or quality; 3-Highest quality in moderate or greater amounts (e.g., very large boulders in deep or fast water, diameter log that is stable, well developed rootwad in deep / fast water, or deep, well-defined, functional under the common of	of highest large Che pools. EX MITES [1] SI	AMOUNT ck ONE (Or 2 & a KTENSIVE >75% ODERATE 25-75 PARSE 5-<25% [EARLY ABSENT Cov Maximu	[11] % [7] 3] <5% [1]
3] CHANNEL MORPHOLOGY Check ONE in each category (Or 2 & average) SINUOSITY DEVELOPMENT CHANNELIZATION STABILITY HIGH [4] EXCELLENT [7] NONE [6] HIGH [3] MODERATE [3] GOOD [5] RECOVERED [4] MODERATE [2] LOW [2] FAIR [3] RECOVERING [3] LOW [1] NONE [1] POOR [1] RECENT OR NO RECOVERY [1] Comments		Chan i Maximi	
4] BANK EROSION AND RIPARIAN ZONE Check ONE in each category for EACH BANK (Or River right looking downstream RIPARIAN WIDTH FLOOD PLAIN QUALITY REROSION WIDE > 50m [4] FOREST, SWAMP [3] SHRUB OR OLD FIELD [2] SHRUB OR OLD FIELD [2] RESIDENTIAL, PARK, NEW FIELD PLAYY / SEVERE [1] VERY NARROW < 5m [1] FENCED PASTURE [1] OPEN PASTURE, ROWCROP [0] Comments	TY R CONS	SERVATION TILL AN OR INDUSTR NG / CONSTRUC dominant land use riparian. Ripari Maximu	IAL [0] FION [0] (s) Fan
5] POOL / GLIDE AND RIFFLE / RUN QUALITY MAXIMUM DEPTH Check ONE (ONLY!) > 1m [6] 0.7-<1m [4] 0.4-<0.7m [2] 0.2-<0.4m [1] <0.2m [0] Comments CHANNEL WIDTH CHANNE	FIAL [-1]	Primary Cont. Pcondary Concle one and comment of Curre	ntact n back)
□ BEST AREAS > 10cm [2] □ MAXIMUM > 50cm [2] □ STABLE (e.g., Cobble, Boulder) [2] □ BEST AREAS 5-10cm [1] □ BEST AREAS < 5cm □ UNSTABLE (e.g., Fine Gravel, Sand) [0] Comments	ELE / RUN EI NONE LOW [□NO RIFFLE MBEDDEDNE [2]	E [metric=0] SS
DRAINAGE AREA MODERATE [6-10]	%GLIDE:(%RIFFLE:(5	Gradio Maximo	

AJ SAMPLED REACH Comment RE: Reach consistency/Is reach ty Check ALL that apply Recreation Primary Contact - flows through residential area Check ALL that apply Recreation Primary Contact - flows through residential area Check ALL that apply Recreation Primary Contact - flows through residential area DATAGE	Temp: 85C
--	-----------

See next page



OEPA HHEI Data Form



Primary Headwater Habitat Evaluation Form

HHEI Score (sum of metrics 1, 2, 3):

29

SITE NAME/LOCATION _S-EVN-02. FirstEnergy - Brookside-Madison ROW Assurance Project . SITE NUMBER RIVER CODE _NA_ RIVER BASIN _Muskingum River _ DRAINAGE AREA (mi²)0.161 LENGTH OF STREAM REACH (ft) _200 _LAT40.841811 _LONG82.307944 _RIVER MILE _NA_ DATE _2024-09-12 _SCORER _EVN _COMMENTS _Small tributary, flowing westward through forested area and powerline ROW to January	ions
MODIFICATIONS:	
TYPE PERCENT TYPE PERCENT M □ BLDR SLABS [16 pts] □ SILT [3 pts] 15 □ BOULDER (>256 mm) [16 pts] □ LEAF PACK/WOODY DEBRIS [3 pts] 15 □ BEDROCK [16 pts] □ FINE DETRITUS [3 pts] 5 □ COBBLE (65-256 mm) [12 pts] 5 □ CLAY or HARDPAN [0 pts]	HHEI Metric oints ubstrate lax = 40
Total of Percentages of (A) (B) Bldr Slabs, Boulder, Cobble, Bedrock <u>5</u> SCORE OF TWO MOST PREDOMINATE SUBSTRATE TYPES: 12 TOTAL NUMBER OF SUBSTRATE TYPES: 7	A + B
evaluation. Avoid plunge pools from road culverts or storm water pipes) (Check ONLY one box): > 30 centimeters [20 pts] > 22.5 - 30 cm [30 pts] > 10 - 22.5 cm [25 pts] COMMENTS MAXIMUM POOL DEPTH (centimeters): 0.1 3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts]	5 Bankfull Width Max=30
This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ☆ NOTE: River Left (L) and Right (R) as looking downstream☆ RIPARIAN WIDTH FLOODPLAIN QUALITY L R (Per Bank) L R (Most Predominant per Bank) L R Wide >10m Mature Forest, Wetland Conservation Tillage V V Moderate 5-10m V V Residential, Park, New Field Open Pasture, Row Crop Narrow <5m Residential, Park, New Field Mining or Construction COMMENTS Maintained Utility ROW within study area	
FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Subsurface flow with isolated pools (Interstitial) COMMENTS SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): None N	
O.5 1.5 2.5 3.0 STREAM GRADIENT ESTIMATE	

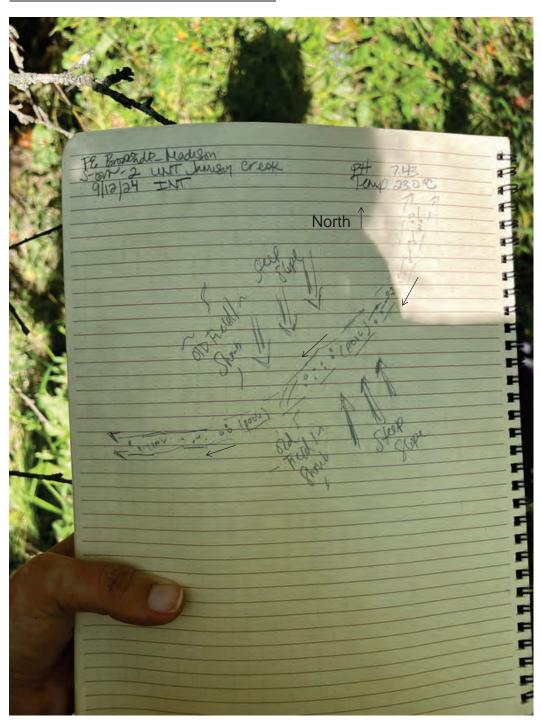
ADDITIONAL STREAM INFORMATION (This Information Must Als	o be Completed):	
QHEI PERFORMED? ☐ Yes ✓ No QHEI Score	(If Yes, Attach Comple	ted QHEI Form)
DOWNSTREAM DESIGNATED USE(S) WWH Name:Jamison Creek CWH Name: EWH Name: MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE E	1	Distance from Evaluated Stream Distance from Evaluated Stream Distance from Evaluated Stream
	RCS Soil Map Page: NA	
County: Ashland Town	ship / City: <u>Montgom</u>	<u>ery</u>
MISCELLANEOUS		
Base Flow Conditions? (Y/N): <u>yes</u> Date of last precipitation: <u>2024</u> -	<u>09-07</u> Quantity: <u>1.27</u>	7_
Photo-documentation Notes:		
Elevated Turbidity? (Y/N): no Canopy (% open): 25		
Were samples collected for water chemistry? (Y/N): <u>no</u> Lab Sample	# or ID (attach results):	=
Field Measures: Temp (°C) 23 Dissolved Oxygen (mg/l) _ pH (S.	U.) 7.43 Conductivit	y (µmhos/cm) _
Is the sampling reach representative of the stream (Y/N) <u>yes</u> If not	, please explain:	
Additional comments/description of pollution impacts:		
BIOLOGICAL OBSERVATIONS (Record all observations below)		
Fish Observed? (Y/N) _ Species observed (if known): _		
Frogs or Tadpoles Observed? (Y/N) _ Species observed (if known)	_	
Salamanders Observed? (Y/N) _ Species observed (if known): _	""	
Aquatic Macroinvertebrates Observed? (Y/N) _ Species observed (it known): _	
Comments Regarding Biology: No biological survey conducted.		

DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed):

Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location

SEE PAGE 3

SKETCH OF STREAM REACH: S-EVN-02





October 10, 2024

Adrianna Stolarski FirstEnergy Corporation 5001 Nasa Boulevard Fairmont, WV 26554

Reference: Technical Memorandum for the Surface Water Delineation of the Longview-Madison ROW

Assurance Project located in the City of Mansfield and Madison Township in Richland

County, Ohio.

(TRC Project No. 550808.0022.0000)

Dear Ms. Stolarski:

On behalf of FirstEnergy Corporation (FirstEnergy), TRC Environmental Corporation (TRC) conducted a surface water delineation for the Longview-Madison ROW Assurance Project (Project). The Project is located in the City of Mansfield and Madison Township in Richland County, Ohio, and is 9.28 acres in size (**Attachment A, Figures 1 and 2**). The Project Study Area is located at the following approximate centroid coordinates: 40.7774, -82.4851. The proposed Project involves the service and replacement of structures on the Longview-Madison 138kV line, as part of FirstEnergy's ROW Assurance Program.

The delineation was conducted by qualified wetland scientists on September 11th, 2024, in accordance with the United States Army Corps of Engineers (USACE) parameters. The objective was to evaluate and delineate potential surface water resources within the Project Study Area, such that the resources could be considered during each phase of the Project. Prior to the site visit, TRC reviewed available secondary source information such as the National Wetlands Inventory (NWI), National Hydrography Dataset (NHD), United States Geological Survey (USGS) topographic maps, County Soil Survey maps, and aerial imagery of the Project Study Area to use in addition to field investigations.

The Project Study Area is shown on the attached map (Attachment A, Figure 1), which was derived from the USGS Pavonia, Ohio 7.5-minute quadrangle topographic map. Soil mapped within the Project Study Area includes non-hydric soil units (Attachment A, Figure 3). The proposed Project Study Area includes one (1) NWI riverine feature and one (1) mapped NHD feature (Attachment A, Figure 4). According to Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map panel, 39139C0163E (eff. 4/4/2011), the proposed Project is not located within a FEMA mapped 100-Year Flood Zone. During the field investigation, land use within the Project Study Area was observed to be an existing utility right-of-way surrounded by residential and industrial land use. See attached mapping in Attachment A and the Photographic Record in Attachment B for further details of the Project Study Area.

During the field investigation, one (1) ephemeral stream (S-EVN-1) was identified and delineated within the Project Study Area (Attachment A, Figure 5). See Table 1 below for a summary of this water resource. No other ecological resources were observed within the Project Study Area. To verify the absence of wetlands within the Project Study Area, upland data points (U-EVN-1 and U-EVN-2) were collected and are shown on Attachment A, Figure 5. Data was collected and recorded on the USACE Wetland Determination Data Forms – Northcentral and Northeast Region and the Ohio Environmental Protection Agency's (OEPA) Headwater Habitat Evaluation Index (HHEI) form. The Wetland Determination Data Forms and HHEI form are provided in Attachment C.



Table 1. Stream Summary Table

Stream ID	Resource Name ¹	Flow Regime	HHEI	Existing Use Designation ³	Delineated Length within the Project Study Area (linear feet)
S-EVN-1	UNT to Rocky Fork	Ephemeral	33	Modified Class I PHW	78

Note: See Delineated Resources Map and Photographic Record for more details.

This Technical Memorandum represents the conditions within the Project Study Area identified herein, as of the inspection dates. Should you require any additional information or have any questions concerning this letter, please feel free to contact me at (440) 666-2890 or by email at BFalkinburg@TRCCompanies.com.

Kind Regards,

TRC Environmental Corporation

Brad M. Falkinburg, PWS

Brol M. Falki

Ecological Office Practice Leader

cc: Maggie Molnar, PWS - TRC

Attachments

Attachment A: Figures

Attachment B: Photographic Record

Attachment C: Data Sheets

¹ UNT = Unnamed Tributary

² Regulation of ephemeral streams is pending an update from OEPA and USACE, based on the USA vs. Sackett case.

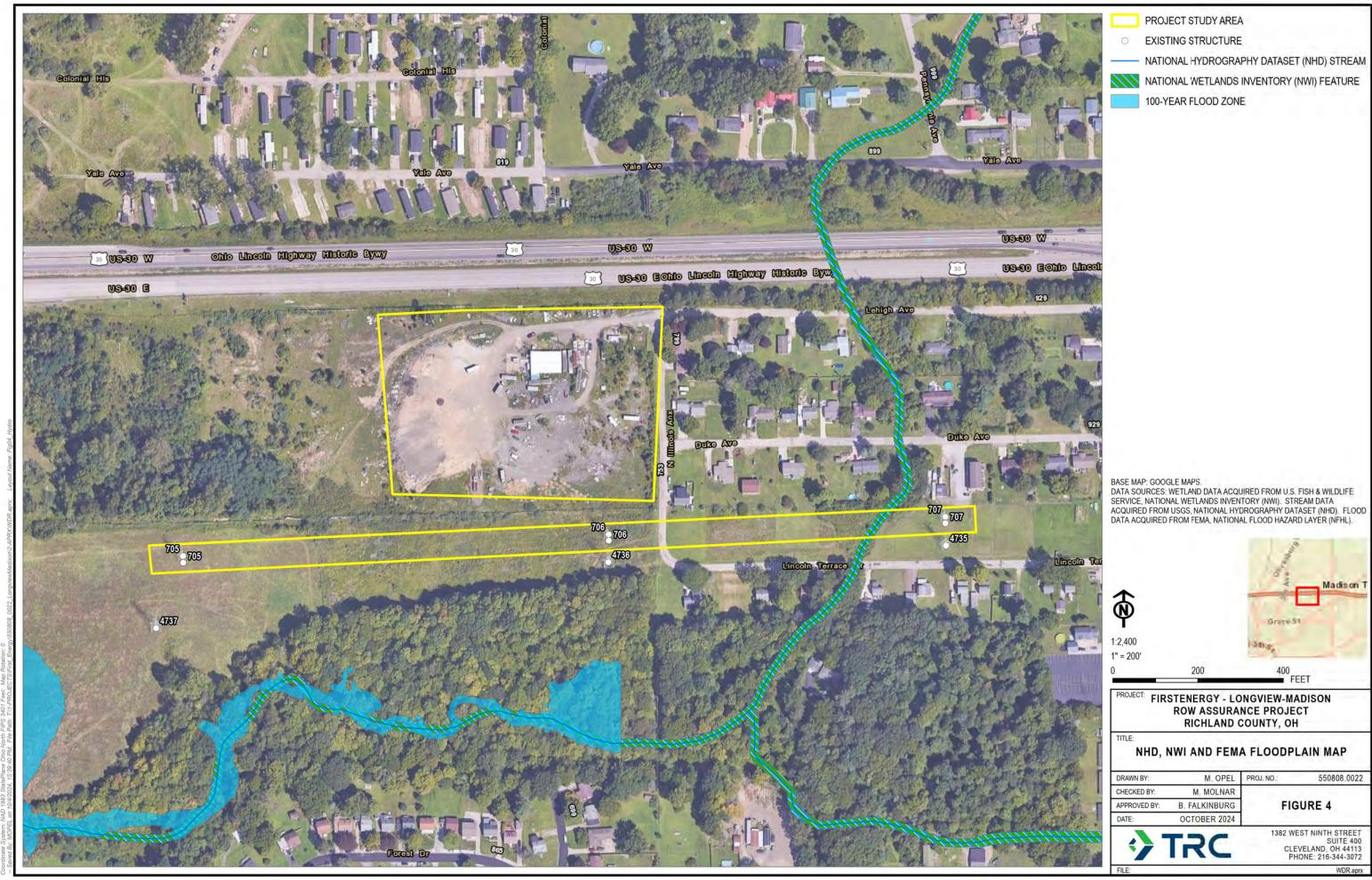
³ PHW= Primary Headwater



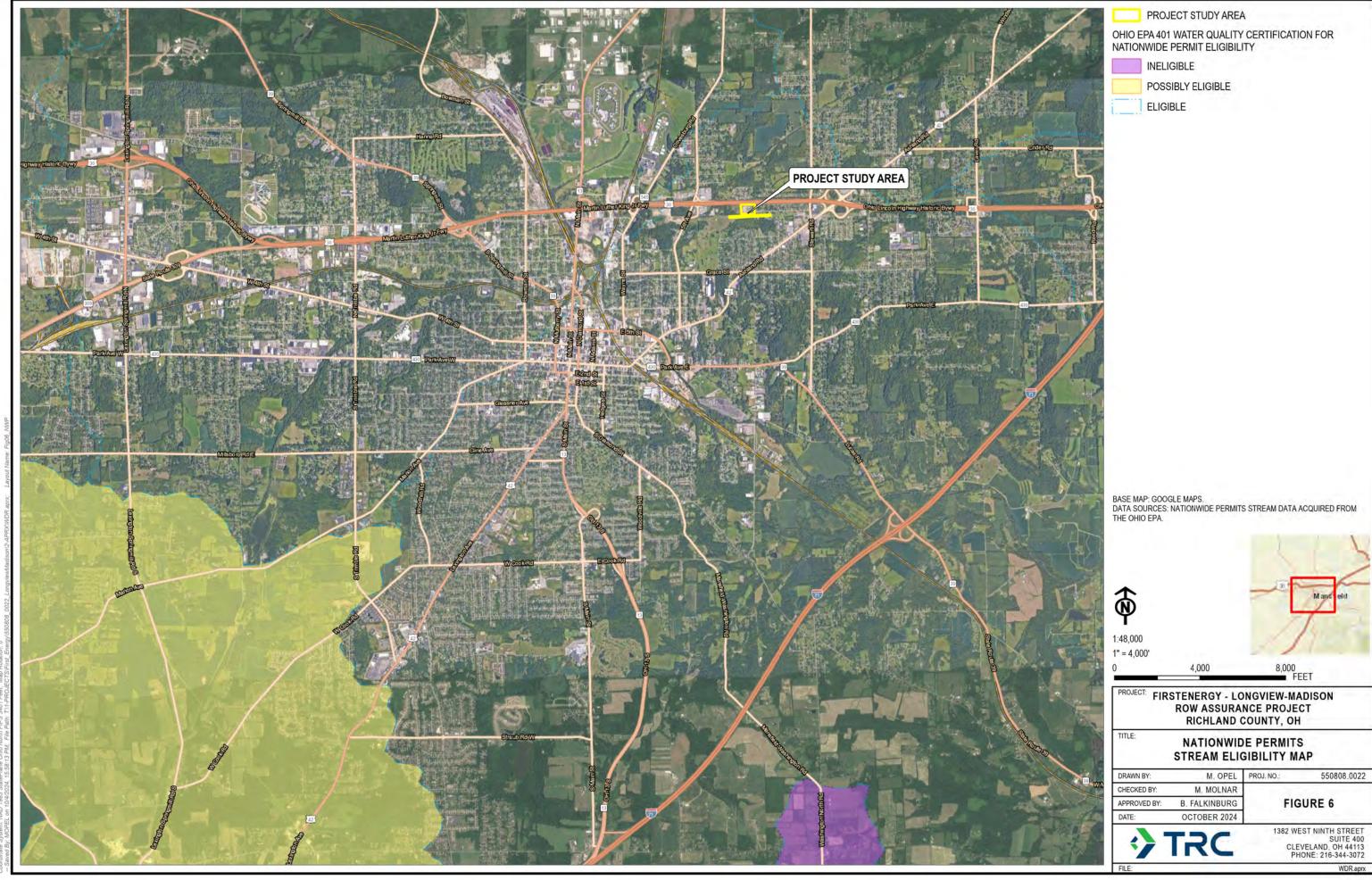
ATTACHMENT A – Figures











System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet: Map Rotation: 0



ATTACHMENT B – Photographic Record





Client Name:

Site Location:

FirstEnergy

City of Mansfield and Madison Township in Richland County, Ohio

Project No.

550808.0022.0000

Photo No. 1.

Photo Date: 9/11/2024

Description:

Photo of Stream S-EVN-1 looking upstream, facing north.



Photo No. 2.

Photo Date: 9/11/2024

Description:

Photo of Stream S-EVN-1 looking downstream, facing south.







Client Name:

Site Location:

FirstEnergy

City of Mansfield and Madison Township in Richland County, Ohio

Project No.

550808.0022.0000

Photo No. 3.

Photo Date: 9/11/2024

Description:

Photo of the substrate within Stream S-EVN-1.



Photo No. 4.

Photo Date: 9/11/2024

Description:

Representative photo of the utility right-ofway within the Project Study Area, facing east.







Client Name:

Site Location:

FirstEnergy

City of Mansfield and Madison Township in Richland County, Ohio

Project No.

550808.0022.0000

Photo No. 5.

Photo Date: 9/11/2024

Description:

Representative photo of the utility right-ofway within the Project Study Area, facing west.



Photo No. 6.

Photo Date: 9/11/2024

Description:

Representative photo of the Project Study Area north of Lincoln Terrace Drive, facing east.







Client Name:

Site Location:

FirstEnergy

City of Mansfield and Madison Township in Richland County, Ohio

Project No.

550808.0022.0000

Photo No. 7.

Photo Date: 9/11/2024

Description:

Representative photo of the Project Study Area north of Lincoln Terrace Drive, facing west.



Photo No. 8.

Photo Date: 9/11/2024

Description:

Representative photo of the gravel parking lot within the Project Study Area, facing north.







Client Name:

Site Location:

FirstEnergy

City of Mansfield and Madison Township in Richland County, Ohio

Project No.

550808.0022.0000

Photo No. 9.

Photo Date: 9/11/2024

Description:

Representative photo of the gravel parking lot within the Project Study Area, facing east.



Photo No. 10.

Photo Date: 9/11/2024

Description:

Representative photo of the gravel parking lot within the Project Study Area, facing south.





ATTACHMENT C – Data Sheets



USACE Wetland Determination Data Forms – Northcentral and Northeast Region

WETLAND DETERMINATION DATA FORM — Northcentral and Northeast Region

WEIGHT DETERMINATION DATA FORM HORE	nechtrar and Northcast Neglon
Project/Site: Longview-Madison ROW Assurance Project City/County: Mansi	field, Richland County Sampling Date: 2024-9-11
Applicant/Owner: FirstEnergy S	State: OH Sampling Point: U-EVN-01
Investigator(s): Erin Van Nort, Jenna Slabe	Section, Township, Range: 14 21N 18W
	ve, convex, none): None Slope (%): 0 to 1
	Long: -82.48333835 Datum: WGS84
Soil Map Unit Name: Rittman silt loam, 2 to 6 percent slopes	NWI Classification: None
Are climatic / hydrologic conditions on the site typical for this time of year? Yes	· · · · · · · · · · · · · · · · · · ·
Are Vegetation, Soil, or Hydrology significantly disturbed?	
Are Vegetation, Soil, or Hydrology naturally problematic?	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS — Attach site map showing sampling poir	nt locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No Is the Sam within a W	pled Area
Hydric Soil Present? Yes No X within a Wo	etland? Yes No X
Wetland Hydrology Present? Ves No ¥	LICENTE LICENTE LICENTE DA
If yes, optio	onal Wetland Site ID: U-EVN-01
Remarks: (Explain alternative procedures here or in a separate report.) Covertype is UPL. Based on the absence of two of three parameters, this area is an upland.	
HYDROLOGY	
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1)	Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) K FAC-Neutral Test (D5) Wetland Hydrology Present? Yes No
Remarks: The criterion for wetland hydrology is not met.	

EGETATION — Use scientific names of plants.				Sampling Point: <u>U-EVN-01</u>
Tree Stratum (Plot size: 30 ft radius)		Dominant Species?		Dominance Test worksheet: Number of Dominant Species
l. 2.				That Are OBL, FACW, or FAC: 1 (A)
3.				Total Number of Dominant
4				Species Across All Strata: 1 (B)
5.				Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)
5. 7.				
•	0	= Total	Cover	Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15 ft radius)				Total % Cover of: Multiply by:
1				OBL species x 1 = 0
2.				FACW species 60 x 2 = 120
3. 4.				FAC species 10 x 3 = 30
5.				FACU species15 x 4 =60
5.				UPL species15 x 5 =75
7				Column Totals:(A)(B)
Lade Ottochura (Diet siege E frankling	0	= Total	Cover	
<u>Herb Stratum</u> (Plot size: <u>5 ft radius</u>) 1. <i>Phalaris arundinacea</i>	60	Yes	FACW	Prevalence Index = B/A = 2.9
2. Asclepias syriaca	15	No	UPL	Hydrophytic Vegetation Indicators:
3. Solidago canadensis	10	No	FACU	🗶 1 - Rapid Test for Hydrophytic Vegetation
4. Vernonia gigantea	10	No	FAC	X 2 - Dominance Test is >50%
5. Dipsacus laciniatus	5	No	FACU	3 - Prevalence Index is ≤3.0 ¹
6.				4 - Morphological Adaptations ¹ (Provide supporting
7				data in Remarks or on a separate sheet)
9.				Problematic Hydrophytic Vegetation ¹ (Explain)
10.				<u> </u>
11				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
12				and processing an arrangement of the control of the
Woody Vine Stratum (Plot size: 30 ft radius)	100	= Total	Cover	Definitions of Vegetation Strata:
1.				Tree — Woody plants 3 in. (7.6 cm) or more in
2.				diameter at breast height (DBH), regardless of height.
3.				Sapling/shrub — Woody plants less than 3 in. DBH
4				and greater than or equal to 3.28 ft (1 m) tall.
	0	= Total	Cover	Herb — All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
				Woody vines — All woody vines greater than 3.28 ft in height.
				Hydrophytic Vegetation Present? Yes No
Remarks: (Include photo numbers here or on a separate s	heet.)			
The criterion for hydrophytic vegetation is met.				

SOIL Sampling Point: II-FVN-01

	 Matrix	to the dep		ment the indic Features	ator or c	confirm the ab	sence of indicators.)
Depth (inches)	Color (moist)	%	Color (moist)	% Type ¹	Loc ²	Texture	Remarks
0 to 6	10YR 4/3	100				Silty Clay Loar	m
6 to 20	10YR 4/2	100				Silty Clay Loar	n
				-			
						-	
							_
				·	_		_
Type: C=Co	oncentration, D=Deple	etion, RM=	Reduced Matrix, CS	S=Covered or C	oated Sa	and Grains.	² Location: PL=Pore Lining, M=Matrix.
lydric Soil I							licators for Problematic Hydric Soils ³ :
Histosol ((A1) ipedon (A2)		Polyvalue Be MLRA 149E	elow Surface (S	8) (LRR	R,	2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)
Black His				urface (S9) (LR	R R, ML	RA 149B)	5 cm Muck Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		Loamy Muck	ky Mineral (F1)			Dark Surface (S7) (LRR K, L)
	Layers (A5) Below Dark Surface	(Λ11)	Loamy Gleye Depleted Ma	ed Matrix (F2)			Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L)
	rk Surface (A12)	(AII)		Surface (F6)			Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy Mu	ucky Mineral (S1)		Depleted Da	rk Surface (F7)		_	Piedmont Floodplain Soils (F19) (MLRA 149E
	eyed Matrix (S4)		Dadey Dees	: - · /EO\			Magic Chadia (TAC) (MI DA 144A 14E 140D)
	, ,		Redox Depri	essions (F8)			Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy Re	edox (S5)		Redox Depri	essions (F8)		_	Red Parent Material (F21)
Sandy Re Stripped I	, ,	₋RA 149B)	_	essions (F8)			
Sandy Re Stripped I Dark Surf	edox (S5) Matrix (S6)		<u> </u>		nless dis	sturbed or prob	Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
Sandy Re Stripped I Dark Surf Indicators of	edox (S5) Matrix (S6) face (S7) (LRR R, ML		<u> </u>		nless dis	sturbed or prob	Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
Sandy Re Stripped I Dark Surf Bindicators of Restrictive L Type:	edox (S5) Matrix (S6) face (S7) (LRR R, ML f hydrophytic vegetati Layer (if present):		etland hydrology mu		nless dis		Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) lematic.
Sandy Re Stripped I Dark Surf Indicators of	edox (S5) Matrix (S6) face (S7) (LRR R, ML f hydrophytic vegetati Layer (if present):	ion and we	etland hydrology mu		nless dis		Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
Sandy Re Stripped I Dark Surf Blindicators of Restrictive L Type: Depth (inc	edox (S5) Matrix (S6) face (S7) (LRR R, ML f hydrophytic vegetati Layer (if present):	ion and we	etland hydrology mu		nless dis		Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) lematic.
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Sandy Re Stripped I Dark Surf Indicators of Restrictive L Type: Depth (inc	edox (S5) Matrix (S6) face (S7) (LRR R, ML f hydrophytic vegetati Layer (if present):	ion and we	etland hydrology mu		nless dis		Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) lematic.

WETLAND DETERMINATION DATA FORM — Northcentral and Northeast Region

WEILAND DETERMINATION DATA FORM	ortheentral and Northeast Neglon
Project/Site: Longview-Madison ROW Assurance Project City/County: M	Iansfield, Richland County Sampling Date: 2024-9-11
Applicant/Owner: FirstEnergy	State: OH Sampling Point: U-EVN-02
Investigator(s): Erin Van Nort, Jenna Slabe	Section, Township, Range: 14 21N 18W
Landform (hillslope, terrace, etc): Flat Local relief (co	ncave, convex, none): None Slope (%): 0 to 1
Subregion (LRR or MLRA): MLRA 139 of LRR R Lat: 40.7774	388333 Long: <u>-82.4846115</u> Datum: <u>WGS84</u>
Soil Map Unit Name: Rittman silt loam, 2 to 6 percent slopes	NWI Classification: None
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X	No(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturbed?	Are "Normal Circumstances" present? Yes No
Are Vegetation , Soil , or Hydrology naturally problematic?	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS — Attach site map showing sampling	noint locations transacts important features etc
Is the	Sampled Area
Hydrophytic Vegetation Present? Yes No X within	a Wetland? Yes No
Wetland Hydrology Present?	
If yes, o	optional Wetland Site ID: <u>U-EVN-02</u>
Remarks: (Explain alternative procedures here or in a separate report.) Covertype is UPL. Based on the absence of all three parameters, this area is an upland.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (B9)	Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Ovidinal Phisopheres along Living	Crayfish Burrows (C8) ng Roots (C3) Saturation Visible on Aerial Imagery (C9)
Sediment Deposits (B2) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Science of Reduction in Tilled Scien	_
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes No X Depth (inches):	-
Saturation Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes No 🗶
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous ins	spections), if available:
Remarks:	
The criterion for wetland hydrology is not met.	
The effection for wedning hydrology to not men	

VEGETATION — Use scientific names of plants.				Sampling Point: <u>U-EVN-02</u>
<u>Tree Stratum</u> (Plot size: <u>30 ft radius</u>)		Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species
1				That Are OBL, FACW, or FAC: 1 (A)
2.				Total Number of Dominant
3.		. ———		Species Across All Strata: 2 (B)
4				Percent of Dominant Species
-				That Are OBL, FACW, or FAC: 50% (A/B)
7.				(12)
	0	= Total	Cover	Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15 ft radius)		= 10tai	Cover	Total % Cover of: Multiply by:
1. Elaeagnus angustifolia	10	Yes	FACU	OBL species $0 \times 1 = 0$
2.				FACW species 80 x 2 = 160
3.				
4.				
5.				FACU species30 x 4 =120
6.				UPL species0 x 5 =0
7				Column Totals:110(A)280(B)
	10	= Total	Cover	
Herb Stratum (Plot size: 5 ft radius)				Prevalence Index = $B/A = 2.5$
1. Phalaris arundinacea	80	Yes	FACW	Hudranhutia Vagatatian Indicatora
2. Cirsium arvense	10	No	FACU	Hydrophytic Vegetation Indicators:
3. Solidago canadensis	10	No	FACU	1 - Rapid Test for Hydrophytic Vegetation
4.				2 - Dominance Test is >50%
5				3 - Prevalence Index is ≤3.0 ¹
6.				4 - Morphological Adaptations ¹ (Provide supporting
7.				data in Remarks or on a separate sheet)
8				· · · · · ·
10		. ———		_ Problematic Hydrophytic Vegetation ¹ (Explain)
				¹ Indicators of hydric soil and wetland hydrology must
11 12.		. ———		be present, unless disturbed or problematic.
	100	= Total	Cover	
Woody Vine Stratum (Plot size: 30 ft radius)		Total	00701	Definitions of Vegetation Strata:
1.				Tree – Woody plants 3 in. (7.6 cm) or more in
2.				diameter at breast height (DBH), regardless of height.
3.				
4				Sapling/shrub — Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
	0	= Total	Cover	Herb — All herbaceous (non-woody) plants, regardless
				of size, and woody plants less than 3.28 ft tall.
				Woody vines — All woody vines greater than 3.28 ft in
				height.
				Hydrophytic
				Vegetation
				Present? Yes No
Remarks: (Include photo numbers here or on a separate s	sheet.)			
The criterion for hydrophytic vegetation is not met.				

(inches)	Matrix		Redox	realuit					
	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture		
0 to 4	10YR 4/3						Silt Loai	<u> </u>	
		- — —		_					
		- — —							
¹ Type: C=Co	ncentration, D=Deple	etion, RM=F	— Reduced Matrix, CS	= S=Cover	ed or Co	ated San	d Grains.	² Location: PL=Pore Lining, M=Matrix.	_
Hydric Soil II	ndicators:							Indicators for Problematic Hydric Soils ³ :	
Histosol (,		Polyvalue Be		face (S8	(LRR R		2 cm Muck (A10) (LRR K, L, MLRA 149E	
Histic Epi _l Black Hist	pedon (A2)		MLRA 149E Thin Dark Si		'0\ (I DD	D MID	A 140D)	Coast Prairie Redox (A16) (LRR K, L, R)	
	Sulfide (A4)		Loamy Muck					5 cm Muck Peat or Peat (S3) (LRR K, L, Dark Surface (S7) (LRR K, L)	K)
Stratified	Layers (A5)		Loamy Gley	ed Matri	x (F2)	, ,		Polyvalue Below Surface (S8) (LRR K, L))
	Below Dark Surface (k Surface (A12)	(A11)	Depleted Ma Redox Dark					Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, I	i D)
	icky Mineral (S1)		Nedox Dark Depleted Da					Piedmont Floodplain Soils (F19) (MLRA	
	eyed Matrix (S4)		Redox Depr	essions	(F8)			Mesic Spodic (TA6) (MLRA 144A, 145, 1	49B)
Sandy Re Stripped M	dox (S5) Matrix (S6)							Red Parent Material (F21) Very Shallow Dark Surface (TF12)	
	ace (S7) (LRR R, ML	.RA 149B)						Other (Explain in Remarks)	
³ Indicators of	f hydrophytic vegetati	ion and we	tland hydrology mu	st be pre	esent, un	less distu	ırbed or p	roblematic.	
	.ayer (if present):			<u> </u>			<u> </u>		
Type: Fill									
Depth (inc			<u> </u>					Hydric Soil Present? Yes No	X
Remarks:									
The criteri	on for hydric soil is no	t met.							



OEPA HHEI Data Form

ChieFPA Primary Headwater Habitat Evaluation Form

HHEI Score (sum of metrics 1, 2, 3):

22	
33	

NGIHL	OF STREAM REA	CH (ft) 100 LA	T. 40.77707	14133 10	NG. <u>-82,4834017364</u> F	RIVER MU F	N/A	
		RER <u>EVN</u> CO						
					aluation Manual for Ol	siala PLIMALI A	Stroomoli for tract	
NOTE: C	Somplete All Ite	ans on this Fol	III - Melet, I	o Field EV	aiuation wanuai for Or	IIO S FRIVIN S	ouedins for mst	ucti
	CHANNEL CATIONS:	NONE / NATU	RAL CHANNI	EL REC	OVERED RECOVER	RING PECE	ENT OR NO RECOV	/EP.Y
					sent. Check ONLY two pro I (Max of 8). Final metric so			1 I
TYPE			PERCENT	TYPE	0,000	192 12 25 00-27 2	PERCENT	N
	BLDR SLABS [1				SILT [3 pts]		5	P
	BOULDER (>25		10		LEAF PACK/WOODY D	100 March 100 Ma	15	Si
Z	COBBLE (65-25		20		FINE DETRITUS [3 pts CLAY or HARDPAN [0	73 (8) (75) (10) A (1	10	M
2	GRAVEL (2-64 r		25		MUCK [0 pts]	pisj		
in a	SAND (<2 mm)		15		ARTIFICIAL [3 pts]			111
					Authoriz [a pio]			15
Ble	Total of Perce	entages of Cobble, Bedrock	30	(A)			(B)	1
		EDOMINATE SUB	the transport of the second of the	PES: 21	TOTAL NUMBER O	F SUBSTRATI	E TYPES: 7	
Ma	aximum Pool De	pth Measure the r	naximum pod	ol depth with	nin the 61 meter (200 ft)	evaluation reach	at the time of	Po
		the state of the second	ad culverts or	storm water	pipes) (Check ONLY on			M
	30 centimeters [20 22,5 - 30 cm [30 p				> 5 cm - 10 cm [15 pts < 5 cm [5 pts]	1		
	10 - 22.5 cm [25 p			<u> </u>	NO WATER OR MOIS	T CHANNEL [0	pts]	0
~	OMMENTS				MAXIMUM POO	DEDTU Joon	timeters): 0	4
	OMMENTS				WAXIMOW FOO	L DEFIN (Cen	umeters). U	12
		H (Measured as th	e average of	3-4 measure	The state of the s	ONLY one box)		В
	0 meters (> 13') [3				> 1 0 m - 1 5 m (> 3' 3"			N
	ALL THE RESERVE AND ADDRESS OF THE PARTY OF			✓	< 1 0 m (≤3' 3") [5 pts			100
	5 m - 3 0 m (> 9'	7" - 4' 8") [20 pts]			≤ 1 0 m (≤3' 3") [5 pts	1		-
> 1		7" - 4' 8") [20 pts]		_			(motors): 0.8	I
> 1	.5 m - 3 0 m (> 9'	7" - 4' 8") [20 pts]			≤ 1.0 m (≤3'.3") [5 pts		(meters): 0.8	
> 1		7" - 4' 8") [20 pts]	Th	is information	AVERAGE BAN	KFULL WIDTH	(meters): 0.8	
> 1	OMMENTS	ONE AND FLOOD	PLAIN QUAL		AVERAGE BAN on <u>must</u> also be complete IOTE: River Left (L) and Ri	KFULL WIDTH		
> 1	OMMENTS	ONE AND FLOOD	PLAIN QUAL	JTY ☆N PLAIN QUAL	AVERAGE BAN on <u>must</u> also be complete IOTE: River Left (L) and Ri	KFULL WIDTH		
> 1	OMMENTS RIPARIAN Z RIPARIAN	ONE AND FLOOD WIDTH	PLAIN QUAL FLOODE L R	ITY 录N PLAIN QUAL (Most Pred Mature For	AVERAGE BAN on <u>must</u> also be complete IOTE: River Left (L) and Ri I <u>TY</u> ominant per Bank) est, Wetland	KFULL WIDTH ed ght (R) as looki		
> 1	RIPARIAN Z RIPARIAN R (Per Ban	ONE AND FLOOD WIDTH k)	PLAIN QUAL FLOODE	ITY 录N PLAIN QUAL (Most Pred Mature For	AVERAGE BAN on <u>must</u> also be complete IOTE: River Left (L) and Ri I <u>TY</u> ominant per Bank)	KFULL WIDTH ed ght (R) as looki	ng downstream≯	
cc	RIPARIAN Z RIPARIAN Z RIPARIAN R (Per Bant Wide >10	ONE AND FLOOD WIDTH K) Im -5-10m	PLAIN QUAL FLOODE L R	JITY 录M PLAIN QUAL (Most Pred Mature For Immature F	AVERAGE BAN on <u>must</u> also be complete IOTE: River Left (L) and Ri I <u>TY</u> ominant per Bank) est, Wetland	KFULL WIDTH ed ght (R) as looki L R III Co	ng downstream;≯	
cc L	RIPARIAN Z RIPARIAN Z RIPARIAN R (Per Bant Wide > 10 Moderate	ONE AND FLOOD WIDTH K) Im : 5-10m	PLAIN QUAL FLOODE L R	JITY 录M PLAIN QUAL (Most Pred Mature For Immature F	AVERAGE BAN on <u>must</u> also be complete IOTE: River Left (L) and Ri ITY ominant per Bank) est, Wetland orest, Shrub or Old Field Park, New Field	KFULL WIDTH ed ght (R) as looki L R Co	ng downstreams	тор
>1 CC	RIPARIAN Z RIPARIAN Z RIPARIAN R (Per Banl Wide >10 Moderate Narrow < None COMMENTS	CONE AND FLOOD WIDTH k) Im 25-10m 5m	PLAIN QUAL FLOODF L R	ITY \$\(\phi\)PLAIN QUAL (Most Pred Mature For Immature F Residential Fenced Page	AVERAGE BAN on must also be complete IOTE: River Left (L) and Ri ITY ominant per Bank) est, Wetland orest, Shrub or Old Field , Park, New Field	KFULL WIDTH ed ght (R) as looki L R Co	ng downstream onservation Tillage ban or Industrial ben Pasture, Row Cr	тор
>1 CC	RIPARIAN Z RIPARIAN Z RIPARIAN Z RIPARIAN R (Per Banl Wide >10 Moderate Narrow < None COMMENTS FLOW REG Stream Flow	CONE AND FLOOD WIDTH k) Im 5-10m 5m IME (At Time of Evening	PLAIN QUAL FLOODF L R Valuation) (Ci	ITY \$\frac{1}{2}\text{NPLAIN QUAL} (Most Prediction of Mature For Immature For Residential Fenced Pasteck ONLY of Pasteck ONLY	AVERAGE BAN on must also be complete IOTE: River Left (L) and Ri ITY ominant per Bank) est, Wetland orest, Shrub or Old Field Park, New Field sture me box): Moist Channel,	KFULL WIDTH ed ght (R) as looki L R Co Ur Op Mi isolated pools,	ng downstream≯ onservation Tillage ban or Industrial oen Pasture, Row Cr ning or Construction no flow (Intermitten	гор
cc L	RIPARIAN Z RIPARIAN Z RIPARIAN Z RIPARIAN R (Per Banl Wide >10 Moderate Narrow < None COMMENTS FLOW REG Stream Flow	CONE AND FLOOD WIDTH k) Im 5-10m 5m IME (At Time of Eving ow with isolated po	PLAIN QUAL FLOODF L R Valuation) (Ci	ITY \$\frac{1}{2}\text{NPLAIN QUAL} (Most Prediction of Mature For Immature For Residential Fenced Pasteck ONLY of Pasteck ONLY	AVERAGE BAN on must also be complete IOTE: River Left (L) and Ri ITY ominant per Bank) est, Wetland orest, Shrub or Old Field Park, New Field sture me box): Moist Channel,	KFULL WIDTH ed ght (R) as looki L R Co Ur Or	ng downstream≯ onservation Tillage ban or Industrial oen Pasture, Row Cr ning or Construction no flow (Intermitten	гор
>1 CC	RIPARIAN Z	CONE AND FLOOD WIDTH k) Im 55-10m S IME (At Time of Eving ow with isolated po	PLAIN QUAL FLOODF L R Valuation) (Ci	ITY \$\(\phi\) PLAIN QUAL (Most Prediction of the Mature For Immature For Immature For Residential Fenced Particles (Mature Forced Particles (Matu	AVERAGE BAN on must also be complete IOTE: River Left (L) and Ri ITY ominant per Bank) est, Wetland orest, Shrub or Old Field Park, New Field sture me box): Moist Channel,	KFULL WIDTH ed ght (R) as looki L R	ng downstream≯ onservation Tillage ban or Industrial oen Pasture, Row Cr ning or Construction no flow (Intermitten	гор
>1 CC	RIPARIAN Z	CONE AND FLOOD WIDTH k) Im 55-10m S IME (At Time of Eving ow with isolated po	PLAIN QUAL FLOODF L R Valuation) (Ci	ITY \$\(\phi\) PLAIN QUAL (Most Prediction of the Mature For Immature For Immature For Residential Fenced Particles (Mature Forced Particles (Matu	AVERAGE BAN on must also be complete IOTE: River Left (L) and Ri ITY ominant per Bank) est, Wetland orest, Shrub or Old Field Park, New Field sture Moist Channel, Dry channel, no	KFULL WIDTH ed ght (R) as looki L R Ur Op Mi isolated pools, o water (Ephem	ng downstream≯ onservation Tillage ban or Industrial oen Pasture, Row Cr ning or Construction no flow (Intermitten	

ADDITIONAL STREAM INFORMATION (This Information	ion Must Also be Completed):
QHEI PERFORMED? ☐ Yes ✓ No QHE	El Score (If Yes, Attach Completed QHEI Form)
DOWNSTREAM DESIGNATED USE(S) WWH Name: CWH Name: EWH Name:	Distance from Evaluated Stream Distance from Evaluated Stream Distance from Evaluated Stream
MAPPING: ATTACH COPIES OF MAPS, INCLU	JDING THE <u>ENTIRE</u> WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
USGS Quadrangle Name: <u>Pavonia</u>	NRCS Soil Map Page: <u>See Report</u> NRCS Soil Map Stream Order <u>See Report</u>
County: Richland	Township / City: <u>Mansfield</u>
MISCELLANEOUS	
Base Flow Conditions? (Y/N): _yes	oitation: <u>2024-09-06</u> Quantity: <u>.1</u>
Photo-documentation Notes:	
Elevated Turbidity? (Y/N): no Canopy (% open): 30	
Were samples collected for water chemistry? (Y/N): no	Lab Sample # or ID (attach results): _
Field Measures: Temp (°C) 0 Dissolved Oxygen (mg/l	l) _ pH (S.U.) <u>0</u> Conductivity (μmhos/cm) _
Is the sampling reach representative of the stream (Y/N)) <u>yes</u> If not, please explain:
Additional comments/description of pollution impacts: Flow diverted to downstream outlet	
BIOLOGICAL OBSERVATIONS (Record all observations below)	
Fish Observed? (Y/N) _ Species observed (if known):	_
Frogs or Tadpoles Observed? (Y/N) _ Species observ	red (if known): _
Salamanders Observed? (Y/N) _ Species observed (if	
Aquatic Macroinvertebrates Observed? (Y/N) _ Specie Comments Regarding Biology:	es observed (if known): _
Comments Negarating Biology.	
DRAWING AND NAPPATIVE DES	CRIPTION OF STREAM REACH (This must be completed):
	of interest for site evaluation and a narrative description of the stream's location
include important landmarks and other reatures	of interest for site evaluation and a narrative description of the stream's location
FLOW → See Nex	t Page

