

**AMERICAN TRANSMISSION SYSTEMS, INCORPORATED
A FIRSTENERGY COMPANY**

CONSTRUCTION NOTICE

**138 kV STRUCTURE ADDITIONS TO GM POWERTRAIN
TRANSMISSION LINES PROJECT**

OPSB CASE NO.: 17-1241-EL-BNR

May 19, 2017

**American Transmission Systems, Incorporated
76 South Main Street
Akron, Ohio 44308**

CONSTRUCTION NOTICE
138 kV STRUCTURE ADDITIONS TO GM POWERTRAIN TRANSMISSION LINES
PROJECT

The following information is being provided in accordance with Ohio Administrative Code (OAC) Chapter 4906-6 for the application and review of Accelerated Certificate Applications. Based upon the requirements found in Appendix A to OAC Rule 4906-1-01, this Project qualifies for submittal to the Ohio Power Siting Board (“Board”) as a Construction Notice application.

4906-6-05: ACCELERATED APPLICATION REQUIREMENTS

4906-6-05: Name and Reference Number

Name of Project: 138 kV Structure Additions to GM Powertrain Transmission Lines Project (“Project”).

2017 LTFR Reference: This Project is not included in FirstEnergy Corp. 2017 Long Term Forecast Report submitted to the Public Utility Commission of Ohio (“PUCO”) in Case Number 15-0913-EL-FOR.

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

American Transmission Systems, Incorporated (“ATSI”), a FirstEnergy company, proposes to replace two (2) existing wood pole tangent structures with two (2) new single circuit wood pole 3-way deadend structures on the Bayshore-GM Powertrain 138 kV Transmission Line and GM Powertrain-Jackman 138 kV Transmission Line leading to the customer owned GM Powertrain Substation. One (1) temporary single circuit wood pole structure will also be installed for a temporary 138 kV transmission connection approximately 60 – 90 feet in length to a mobile transformer that will be installed at the GM Powertrain Substation during this Project’s construction.

The Project will be completed in several phases. First, the Bayshore-GM Powertrain 138 kV Transmission Line Structure 9A will be replaced with a wood pole 3-way deadend

structure (See Exhibit 4) and the temporary structure (See Exhibit 5) will also be installed. Then the Bayshore-GM Powertrain 138 kV Transmission Line will be placed temporarily back in service while the GM Powertrain-Jackman 138 kV Transmission Line Structure 8B is replaced with a wood pole 3-way deadend structure (See Exhibit 4). Both permanent structures will be replaced at approximately the same location on the existing centerlines of each transmission line.

A temporary tap line from Structure 9A to the temporary structure and then to the mobile transformer will be installed and energized while the first transformer at GM Powertrain Substation is replaced. Then the temporary tap line will be attached to Structure 8B while the second transformer at GM Powertrain Substation is replaced. The last phase will see the removal of the temporary tap and structure and both transmission lines will be reenergized on the existing centerlines.

The general location of the proposed Project is shown in Exhibits 1 and 2. Exhibit 1 is a location map excerpt of the United States Geologic Survey, Lucas County, Ohio, Monroe County, MI, Quad Maps ID number 41083-F5. Exhibit 2 provides a partial copy of aerial imagery, Digital Orthophoto Quarter Quads (“DOQQ”). The general layout of the proposed Project is shown in Exhibit 3. The Project is located in an existing transmission corridor in the City of Toledo, in Lucas County, Ohio. The new transmission structures will be owned and operated by ATSI.

4906-6-05 (B)(1): Construction Notice Requirement

The Project meets the requirements for a Construction Notice because the Project is within the types of projects defined by Items 1(a), and (2)(a) of the Application Requirement Matrix for Electric Power Transmission Lines, Appendix A of OAC Rule 4906-1-01. These items state:

(1) New construction, extension, or relocation of single or multiple circuit electric power transmission line(s), or upgrading existing transmission or distribution line(s) for operation at a higher transmission voltage, as follows:

(a) Line(s) not greater than 0.2 miles in length.

(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:

(a) Two miles or less.

The proposed Project is within the requirements of Item (1)(a) as it involves the addition of a temporary transmission line of approximately 60 – 90 feet in length, which is a distance less than 0.2 miles in length. The proposed Project is within the requirements of Item (2)(a) as it involves the replacement of two (2) structures with a different type of structure.

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

The proposed Project is necessary to accommodate replacement of the main transformer at GM Powertrain Substation. Both transformers at GM Powertrain Substation need to be upgraded due to an increase in the load capacity at their facility. While each transformer is being upgraded, GM has requested service to be provided through a temporary tap on a mobile transformer.

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. 2017 Long-Term Forecast Report. This map was submitted to the

PUCO in Case No. 17-0913-EL-FOR under Rule 4901:5-5:04 (C) of the Ohio Administrative Code. The map is incorporated by reference only. This map shows ATSI's 345 kV and 138 kV transmission lines and transmission substations including the Bayshore-GM Powertrain and Jackman-GM Powertrain 138 kV Transmission Lines. The Project area is located approximately 3 1/8 inches (11" x 17" printed version) from the left edge of the map and 1 1/8 inches (11" x 17" printed version) from the top of the map. The general location and layout of the Project area is shown in Exhibits 1 through 3.

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

The general area of the Project was carefully reviewed to identify potential routes for the Project that are constructible, minimize potential impacts to the extent practical, and meet the needs of the Project. The Project is located within existing right-of-way and involves replacement of two (2) existing structures and the addition of one (1) temporary structure. The only alternatives considered for this Project was the location of the one (1) temporary structure, which is needed to connect to the mobile transformer. Several locations for the mobile transformer and temporary structure were proposed but none except the proposed Project was constructible.

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

ATSI's manager of External Affairs will advise local officials of features and the status of the proposed Transmission Line Project as necessary. ATSI will maintain a copy of this Construction Notice on FirstEnergy's website. Letters will be sent to affected property owners at least 7 days before construction begins on the project informing them of the Project's start and a proposed timeframe of construction and restoration activities.

4906-11-02 (B)(6): Construction Schedule

Construction on the project is expected to begin as early as June 12, 2017 and be completed by December 31, 2017.

4609-6-05 (B)(7): Area Map

Exhibits 1 and 2 depict the general location of the Project. Exhibit 1 provides a partial copy of the United States Geological Survey, Portage County, Ohio quadrangle map (Quad Order ID 41083-F5). Exhibit 2 provides a partial copy of aerial imagery, DOQQ.

4906-11-01 (B)(8): Property Owner List

The Project will be located on existing right-of-way owned by ATSI. No new easements or right-of-way will need to be acquired. The Project is located on two (2) different parcels representing two (2) unique property owners. The property information for this Project is listed below in Table 1.

Table 1. List of Affected Property Owners

Parcel Number	Property Owner	Property Address	Easement Status
2204304	General Motors LLC A Delaware LLC	300 Renaissance Center Mail Code 482-C19-GRE, Detroit, MI 48265-2000	Previously Obtained
2204304	Toledo-Lucas County Port Authority	P.O. Box 460169 Houston, TX 77056	Previously Obtained

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

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

The Transmission Line will have the following characteristics:

- Voltage: 138 kV
- Conductors: Permanent – 954 kcmil #37 AAC
Temporary – 336 kcmil 26/7 ACRS
- Static Wire: 7#10 Alumoweld
- Insulators: Polymer
- ROW Width: 120 feet
- Structure Types: Exhibit 4: Single circuit wood pole 3-way deadend structures.
Two (2) structures are needed.

Exhibit 5: Temporary single circuit wood pole structure. One (1) structure is needed.

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

The closest occupied residence or institution is approximately 1200 feet from the transmission line centerline. As these distances are greater than the 100 feet, estimated Electric and Magnetic Field (“EMF”) strengths have not been calculated.

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

The estimated capital cost for the proposed Project is approximately: \$353,434.

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 Toledo in Lucas County, Ohio. The main land use in the Project area is industrial, with some commercial and residential use within one mile from the Project location. As the proposed Project involves replacement and addition of transmission line structures within the existing right-of-way, no changes or impacts to the current land use are anticipated.

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

Agricultural land use does not exist within the Project limits.

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

A search of Ohio Historic Preservation Office (“OHPO”) National Register of Historic Places (“NRHP”) online database was conducted to identify the existence of any significant archeological or cultural resource sites within 0.5 miles of the Project Area. A map of the results of the search is shown in Exhibit 6. The OHPO database includes all Ohio listings on the NRHP, including districts, sites, building, structures, and objects that are significant in American history, architecture, archeology, engineering, and culture.

The results of the search indicate that there are no Listed NRHP properties and no OHPO eligible properties identified within 0.5 miles of the Project’s potential disturbance area.

The OHPO database also includes listing of the Ohio Archaeological Inventory (“OAI”), the Ohio Historic Inventory (“OHI”), previous cultural resource surveys, and the Ohio Genealogical Society (“OGS”) cemetery inventory. The results of the search indicate that no OAI listed archaeological resources or OHI listed structural resources were identified within 0.5 miles of the Project potential disturbance area.

One (1) previous archaeological resource survey was conducted within 0.5 miles of the Project Area. The previous cultural resource survey is identified in Table 2.

Table 2. Previous Cultural Resource Survey

Year	Name	County	Municipality
1986	Phase I and II archaeological survey of proposed excess property at Naval Weapons Industrial Reserve Plant, Toledo, Ohio	Lucas	City of Toledo

There are no OAI sites located within 0.5 miles of the Project’s potential disturbance area.

As the proposed Project involves replacing two existing transmission structures with in approximately the same respective locations and installing one temporary structure in an industrial site, no changes or impacts to archaeological and cultural resources are anticipated.

4906-6-05 (B)(10)(d): Local, State and Federal Government Requirements

Table 3 shows the list of government agency requirements and the filing status at the time of filing.

Table 3. List of Government Agency Requirements to be Secured Prior to Construction

Agency	Permit Requirement	Status
Ohio EPA	General NPDES Construction Storm Water Permit	Will be Filed

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

As part of its investigation, ATSI submitted a request to the Ohio Department of Natural Resources-Division of Wildlife (“ODNR”) on March 7, 2017, to research the presence of any endangered, threatened, or rare species within one (1) mile of the Project area. A copy of ODNR’s Environmental Review response is included as Exhibit 7. The ODNR’s response on March 13, 2017, indicated a record of one (1) threatened state listed species within one mile of the identified Project area. The Alpine Rush (*Juncus alpinoarticulatos*) is located approximately 0.5 miles away from the Project. Due to the distance away from the Project area, and the industrial setting, there are no anticipated impacts to the Alpine Rush.

A request was submitted to the US Fish and Wildlife Service (“USFWS”) for an ecological review on March 7, 2017, to research the presence of any endangered, threatened, or rear species within one (1) mile of the Project area. A copy of USFWS’s Ecological Review response is included as Exhibit 8. The USFWS’s response on March 20, 2017 indicated that based on the Project type and limited impacts, they do not anticipate any impacts to federally protected species.

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

As part of the investigation, ATSI submitted a request to the ODNR on March 7, 2017, to research the presence of any unique ecological sites, geological features, animal assemblages, scenic rivers, state wildlife areas, nature preserves, parks or forest, national wildlife refuges, or other protected natural areas within one (1) mile of the Project area

using ODNR's Natural Heritage Database. A copy of the ODNR's Environmental Review response is included as Exhibit 7.

The ODNR's response on March 13, 2017 indicated that there are no records of any areas of ecological concern within one (1) mile of the proposed Project area.

The Project work limits do not encroach on any regulated flood plains based on a review of online FEMA Flood Insurance Rate Mapping.

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 National Electrical Safety Code as adopted by the 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 Construction Notice Transmittal and Availability for Public Review

This Construction Notice is being provided concurrently to the following officials in the City of Toledo and Lucas County, Ohio.

Lucas County

Commissioner Pete Gerken,
President
Lucas County Commissioners
1 Government Center, Suite 800
Toledo, OH 43604

Commissioner Carol Contrada,
Lucas County Commissioners
1 Government Center, Suite 800
Toledo, OH 43604

Commissioner Tina Skeldon-Wozniak
Lucas County Commissioners
1 Government Center, Suite 800
Toledo, OH 43604

Ms. Laura Lloyd-Jenkins
Lucas County Administrator
1 Government Center, Suite 800
Toledo, OH 43604

Mr. Keith G. Earley P.E., P.S.
Lucas County Engineer
1049 S. McCord Road
Holland, OH 43528

Mr. Bob Neubert,
Lucas County Floodplain Manager
1049 S. McCord Road
Holland, OH 43528

Mr. Douglas J. Parrish, P.E., S.I.
Lucas County Planning Department
1049 S. McCord Road
Holland, OH 43528

City of Toledo

Mayor Paula Hicks-Hudson
City of Toledo
1 Government Center
Toledo, OH 43604

Mr. Thomas C. Gibbons, Director
Toledo-Lucas County
Planning Commission
1 Government Center, Suite 1620
Toledo, OH 43604

Mr. Steven Steel, President
City of Toledo Council
1 Government Center
Toledo, OH 43604

Mr. George Sarantou
Finance Director, City of Toledo
1 Government Center
Toledo, OH 43604

Libraries

Ms. Meg Delaney, Manager
Toledo-Lucas Co. Public Library
Main Branch
325 Michigan St.
Toledo, OH 43604

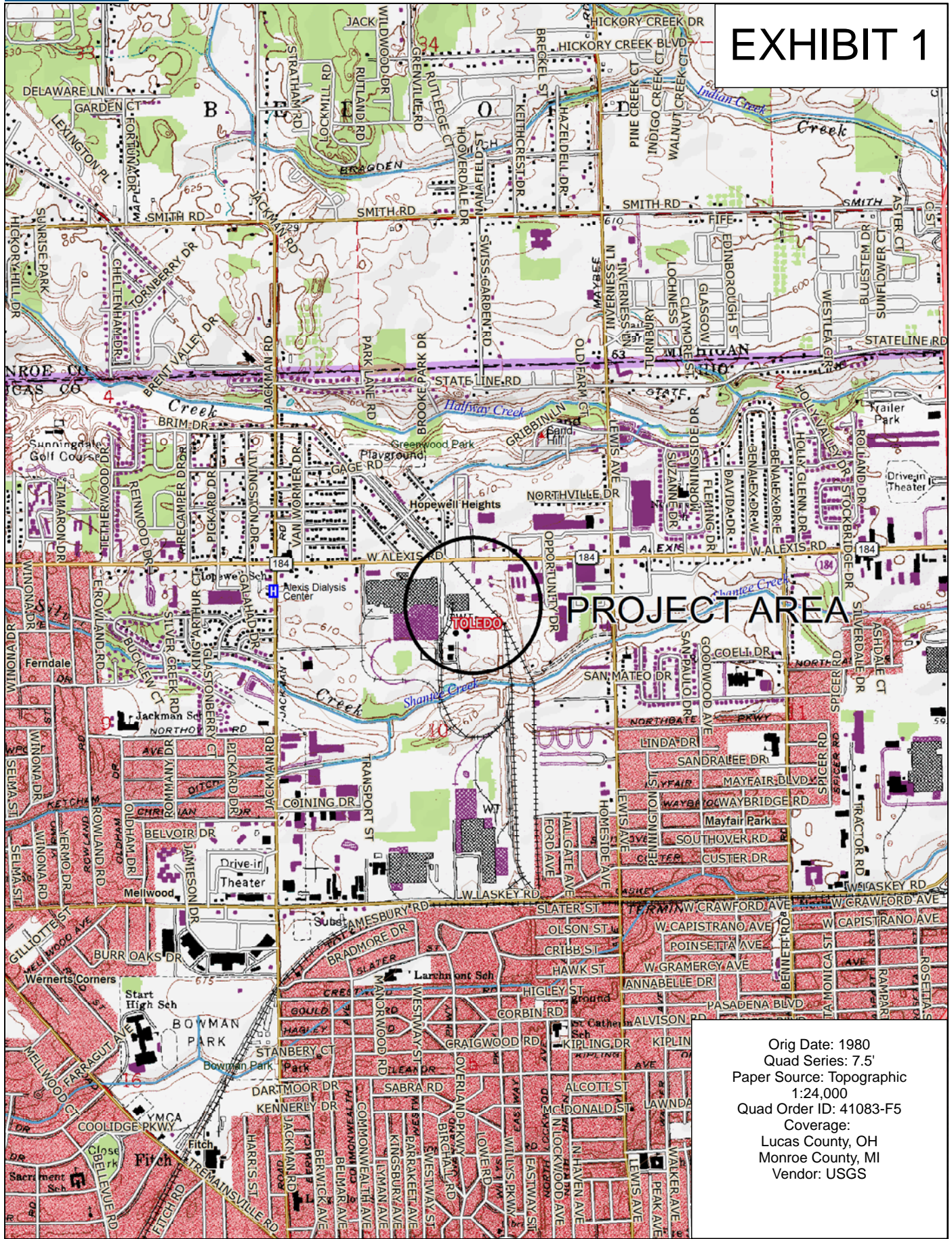
Ms. Hannah Lammie, Manager
Toledo-Lucas Co. Public Library
Washington Branch
5560 Harvest Lane
Toledo, OH 43623

Copies of the transmittal letters to these officials have been included with this Construction Notice application to the Ohio Power Sitting Board, and are being provided to meet the requirement of OAC Rule 4906-6-07 (B) as proof of compliance with the notice requirement to local officials in OAC Rule 4906-6-07 (A)(1) and to libraries at OAC Rule 4906-6-07 (A)(2).

Information is posted on www.firstenergycorp.com/about/transmission_project/ohio.html on how to request an electronic or paper copy of this Construction Notice. The link to the website is being provided to meet the requirement of OAC 4906-6-07 (B) and to

provide the Board with proof of compliance with the notice requirements in OAC Rule 4906-6-07 (A)(3).

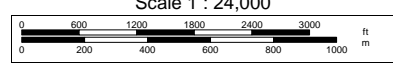
EXHIBIT 1



PROJECT AREA

Orig Date: 1980
 Quad Series: 7.5'
 Paper Source: Topographic
 1:24,000
 Quad Order ID: 41083-F5
 Coverage:
 Lucas County, OH
 Monroe County, MI
 Vendor: USGS

Scale 1 : 24,000



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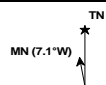
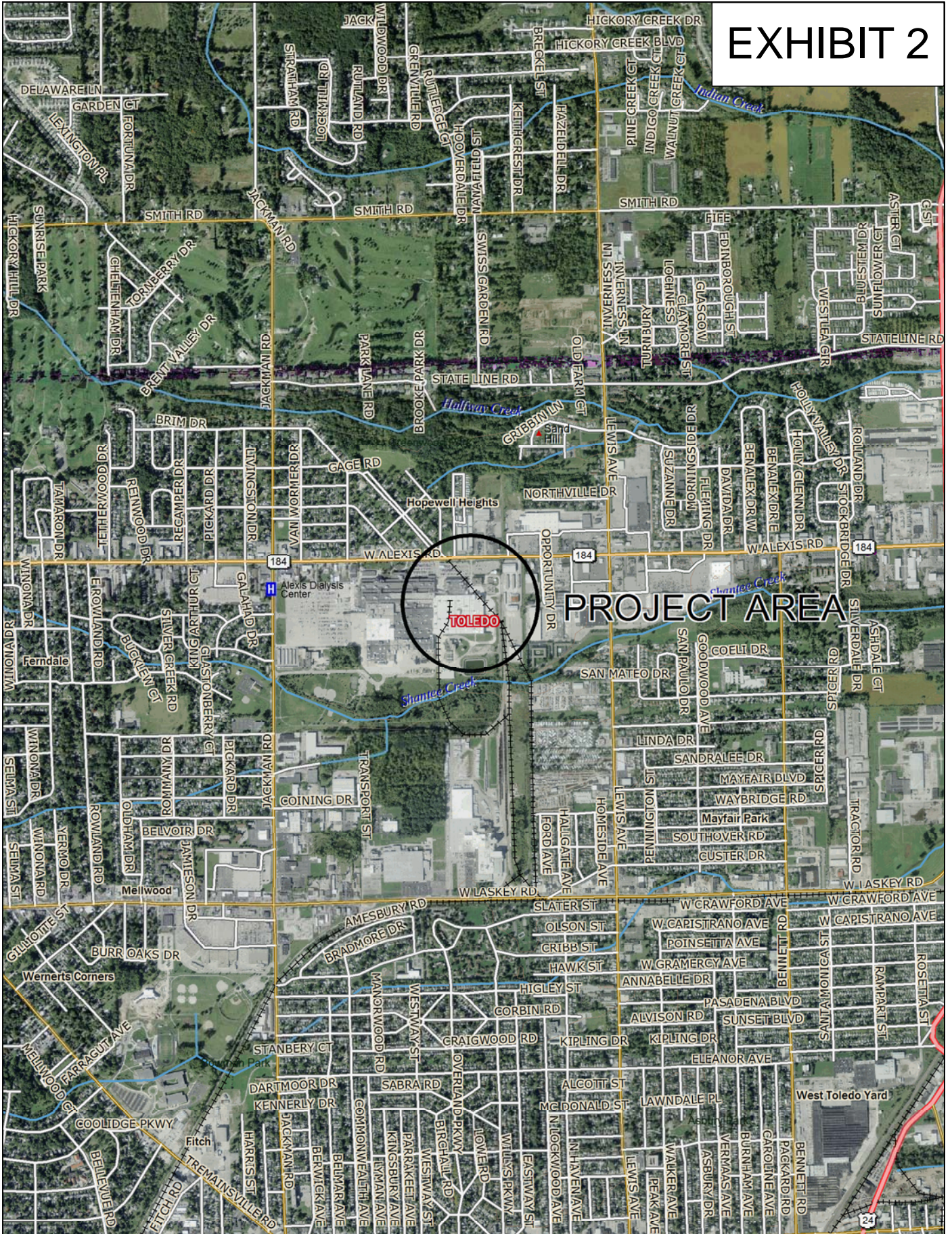


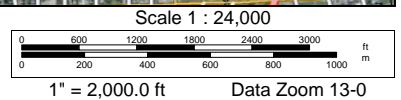
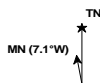
EXHIBIT 2

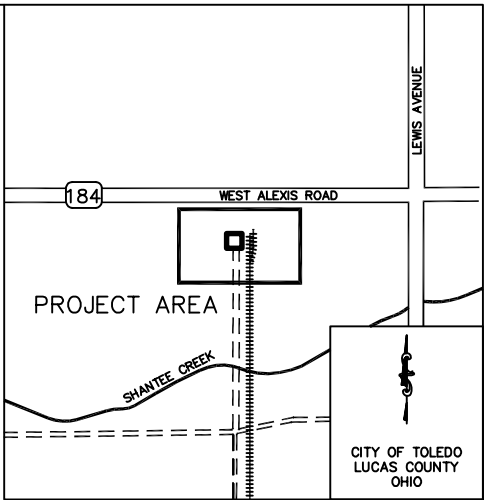
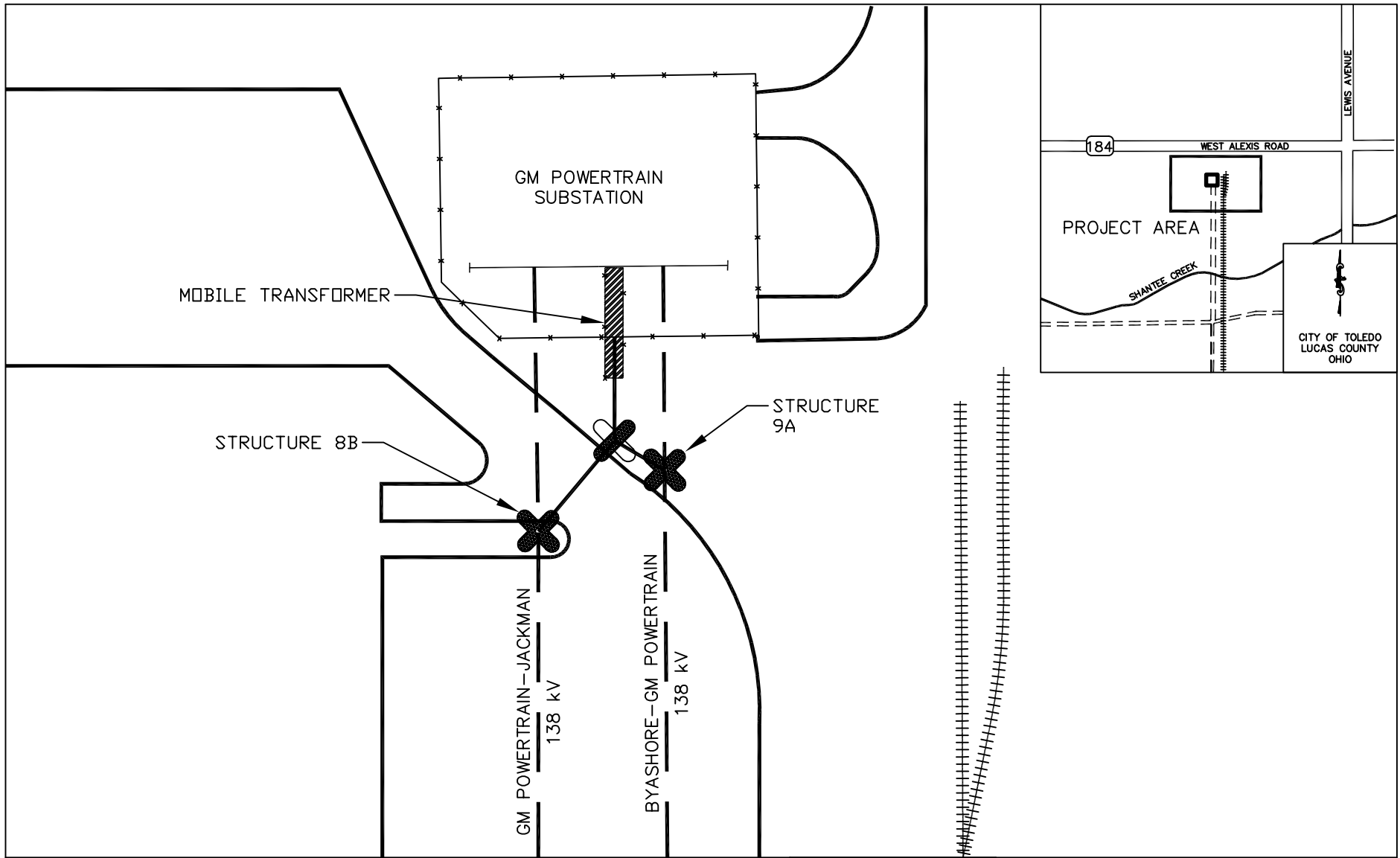


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LEGEND

- — EXISTING CONDUCTOR
- — TEMPORARY CONDUCTOR
- x-x- SUBSTATION FENCE LINE
- +++++ RAILROAD

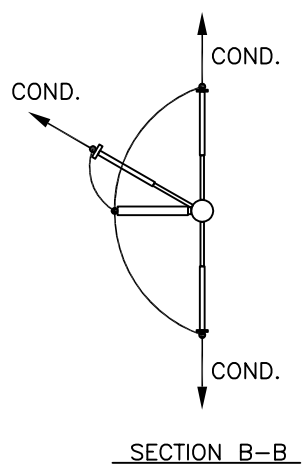
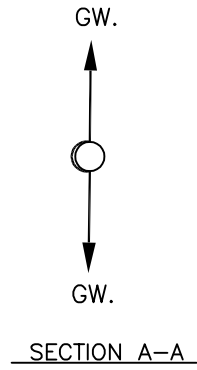
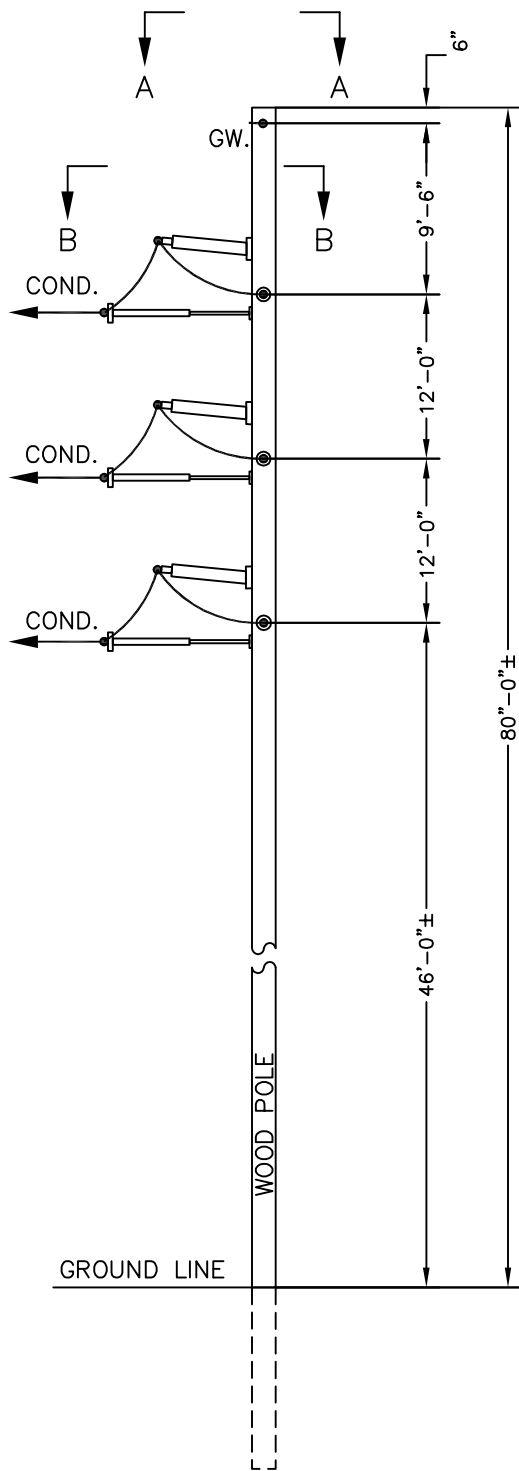
-  TEMPORARY SINGLE POLE WOOD TAP STRUCTURE
-  NEW SINGLE POLE WOOD 3-WAY DEADEND STRUCTURE



138 kV STRUCTURE ADDITIONS
TO GM POWERTRAIN
TRANSMISSION LINES PROJECT

GENERAL LAYOUT

EXHIBIT 3



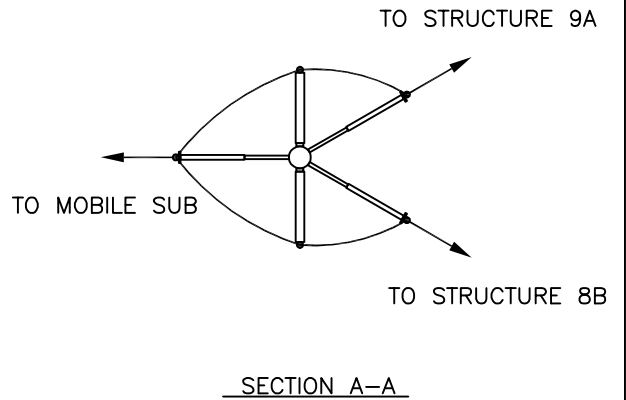
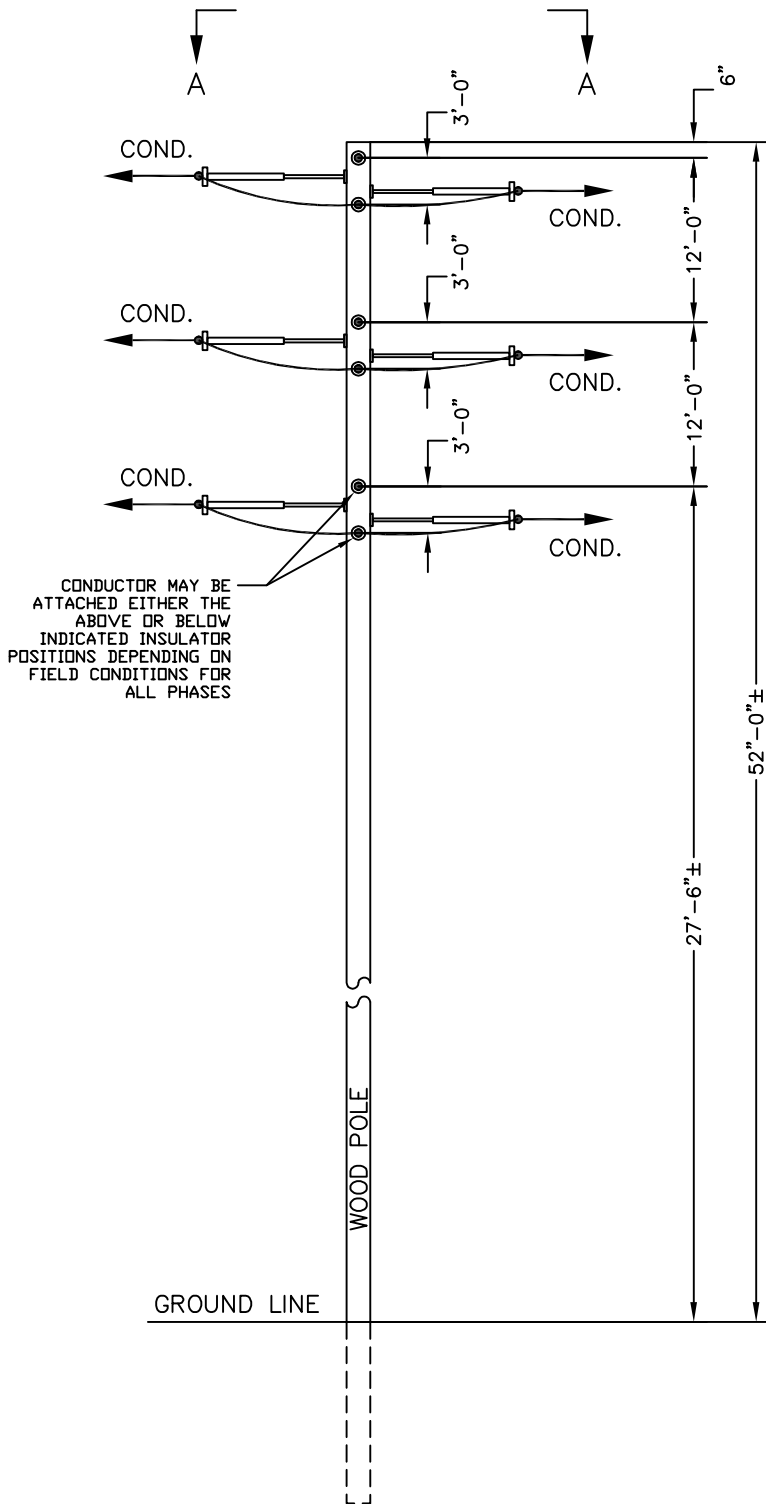
**NOT TO SCALE

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

138 kV STRUCTURE ADDITIONS
 TO GM POWERTRAIN
 TRANSMISSION LINES PROJECT

SINGLE CIRCUIT, WOOD POLE, 3-WAY
 DEADEND TAP STRUCTURE

EXHIBIT 4



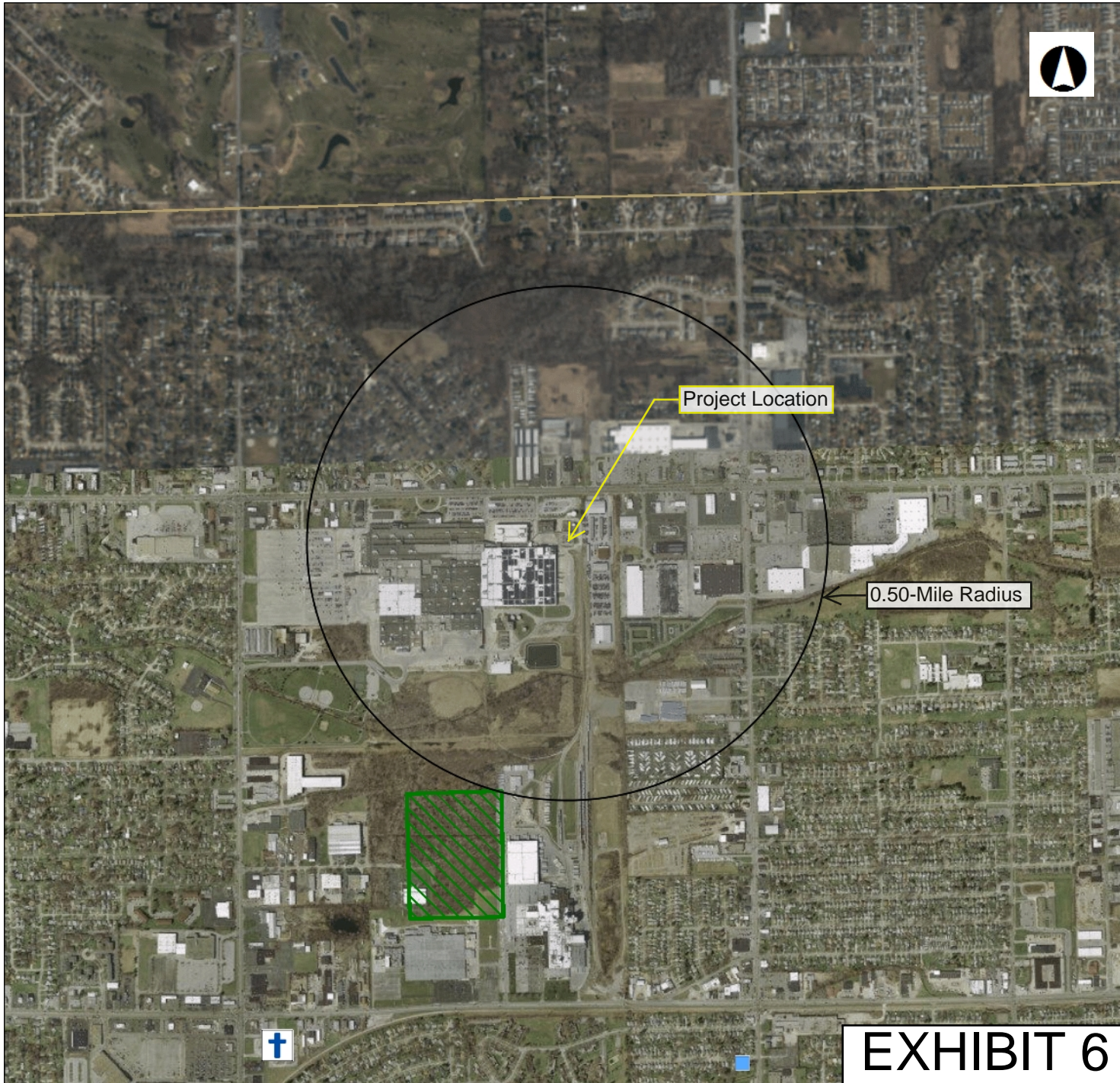
**NOT TO SCALE



138 kV STRUCTURE ADDITIONS
TO GM POWERTRAIN
TRANSMISSION LINES PROJECT

TEMPORARY SINGLE CIRCUIT, WOOD
POLE, STRUCTURE

EXHIBIT 5



Legend

- NR Listings
 - Listed
 - ⊙ National Historic Landmark
 - ✘ Delisted
- ◆ NR Determinations of Eligibi
- Historic Structures
- Historic Bridges
- Historic Tax Credit Projects
- OGS Cemeteries
 - † Confident
 - † Not Confident
- Dams
- UTM Zone Split
- ▨ NR Boundaries
- ▨ Phase1
- ▨ Phase2
- ▨ Phase3
- ▨ Historic Previously Surveyec

0 0.30 0.61 Miles



1: 24,000

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This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

Datum: [Datum]
Projection: WGS_1984_Web_Mercator_Auxiliary_Sphere



EXHIBIT 6



Ohio Department of Natural Resources

JOHN R. KASICH, GOVERNOR

JAMES ZEHRINGER, DIRECTOR

Ohio Division of Wildlife
Raymond W. Petering, Chief
2045 Morse Rd., Bldg. G
Columbus, OH 43229-6693
Phone: (614) 265-6300

13 March 2017

Nataliya Bryksenkova
First Energy
76 S. Main St.
Akron, OH 44308

Dear Ms. Bryksenkova,

I have reviewed the Natural Heritage Database for the Jackman-GM Powertrain 138 kV Line Temporary Tap project area, including a one mile radius, in Toledo, Lucas County, Ohio. We have one record within the project area and one mile radius. The location for the Alpine Rush (*Juncus alpinoarticulatus*), threatened, is shown in red on the attached map.

We are unaware of any unique ecological sites, geologic features, animal assemblages, scenic rivers, state wildlife areas, nature preserves, parks or forests, national wildlife refuges, parks or forests, or other protected natural areas within a one mile radius of the project area.

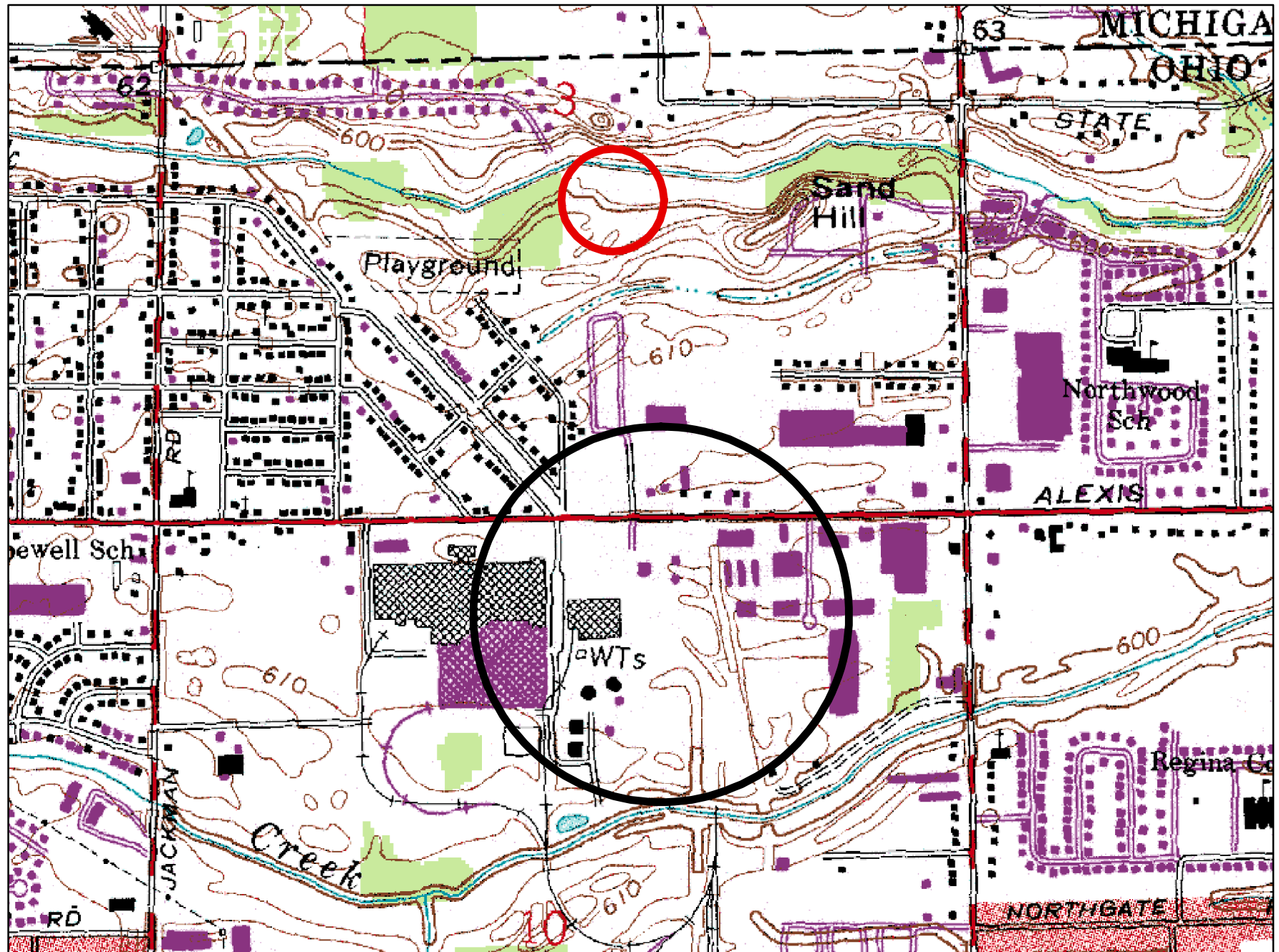
Our inventory program has not completely surveyed Ohio and relies on information supplied by many individuals and organizations. Therefore, a lack of records for any particular area is not a statement that rare species or unique features are absent from that area. This letter only represents a review of rare species and natural features data within the Ohio Natural Heritage Database. It does not fulfill coordination under the National Environmental Policy Act (NEPA) or the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S. C. 661 et seq.) and does 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.

Please contact me at 614-265-6818 if I can be of further assistance.

Sincerely,

A handwritten signature in blue ink that reads "Debbie Woischke".

Debbie Woischke
Ohio Natural Heritage Program



Bryksenkova, Nataliya

From: susan_zimmermann@fws.gov on behalf of Ohio, FW3 <ohio@fws.gov>
Sent: Monday, March 20, 2017 1:57 PM
To: Bryksenkova, Nataliya
Subject: *EXTERNAL* Jackman-GM Powertrain 138 kV Transmission Line Temp. Tap, Lucas Co.



UNITED STATES DEPARTMENT OF THE INTERIOR
U.S. Fish and Wildlife Service
Ecological Services Office
4625 Morse Road, Suite 104
Columbus, Ohio 43230
(614) 416-8993 / Fax (614) 416-8994



TAILS# 03E15000-2017-TA-0973

Dear Ms. Bryksenkova,

We have received your recent correspondence requesting information about the subject proposal. There are no Federal wilderness areas, wildlife refuges or designated critical habitat within the vicinity of the project area.

FEDERALLY LISTED, PROPOSED, AND CANDIDATE SPECIES COMMENTS: Due to the project, type, size, and location, we do not anticipate adverse effects to federally endangered, threatened, proposed, or candidate species. Should the project design change, or during the term of this action, 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, consultation with the Service should be initiated to assess any potential impacts.

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,

A handwritten signature in blue ink that reads "Dan Everson".

Dan Everson

Field Office Supervisor