

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

**CONSTRUCTION NOTICE**

**BEAVER-DAVIS BESSE 345 kV TRANSMISSION LINE  
STRUCTURE ADDITION**

**OPSB CASE NO.: 17-1666-EL-BNR**

**August 3, 2017**

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

**CONSTRUCTION NOTICE  
BEAVER-DAVIS BESSE 345 kV TRANSMISSION LINE  
STRUCTURE ADDITION PROJECT**

The following information is being provided in accordance with the procedures in the 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: Beaver-Davis Besse 345 kV Transmission Line Structure Addition Project (“Project”).

2017 LTFR Reference: This Project is not included in the FirstEnergy Corp. 2017 Long Term Forecast Report submitted to the Public Utility Commission of Ohio (“PUCO”) in Case Number 17-913-EL-FOR.

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

In this Project, American Transmission Systems, Incorporated (“ATSI”) a FirstEnergy company, is proposing to add a midspan steel pole to raise the Beaver-Davis Besse 345 kV Transmission Line to provide clearance for the addition of the new Hayes-West Fremont 138 kV Transmission Line and the Groton-Hayes 138 kV Transmission Line. The structure will be a 135' single steel pole structure on a concrete drilled shaft foundation. The Project will be located in Perkins Township, Erie County, Ohio.

The steel single pole structure will be added to the existing Beaver-Davis Besse 345 kV Transmission Line. The structure will be placed in-between existing structures #41822 and #41823. It will be located approximately 350 feet due west of the Hayes substation.

The general location of the Project is shown in Exhibit 1, a partial copy of the United States Geologic Survey, Erie County OH, Quad Map, ID number 40081-D2. Exhibit 2 is a copy of Bing aerial imagery of the Project area. The Project is located approximately 2,100 feet northwest of the intersection of Fox Road and Patten Tract Rd. The general layout is shown in Exhibit 3. The Project will be located in Perkins Township, Erie County, Ohio.

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

The Project meets the requirements for a Construction Notice because the Project is within the types of projects defined by Item (2)(a) of the Application Requirement Matrix for Electric Power Transmission Lines, Appendix A of OAC Rule 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 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 (2)(a) as it involves the addition of one (1) structure to an existing transmission line with over a distance that of less than two miles.

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

The Project is needed to provide clearance for the Hayes-West Fremont 138 kV Transmission Line and the Groton-Hayes 138 kV Transmission Line adjacent to the Hayes Substation.

**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. 17-313-EL-FOR under OAC Rule 4901:5-5:04 (C)(2)(b). The map is incorporated by reference only. This map shows ATSI's 345 kV and 138 kV transmission lines and transmission substations including the Beaver-Davis Besse 345kV Transmission Line. The Project area is located approximately 5 <sup>3</sup>/<sub>4</sub> inches (11" x 17" printed version) from the left edge of the map and 2 <sup>1</sup>/<sub>2</sub> inches (11" x 17" printed version) from the top of the map. The general location and layout of the project area is shown in Exhibit 1 and 2.

The Project is located within approximately 200 feet of the approved Hayes – West Fremont 138kV Transmission Line which was approved in OPSB Case No. 12-1636-EL-BTX on August 24, 2014 and is currently under construction.

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

No other alternatives were considered as the Project provides safe clearance at the intersection of the transmission lines.

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

Ohio Edison's manager of External Affairs will advise local officials of features and 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.

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

The construction schedule for this Project is expected to begin as early as September 5, 2017 and completed by October 30, 2017.

**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 Geological Survey, Erie County OH, quadrangle map (Quad Order ID 40081-D2). Exhibit 2 is a copy of Bing aerial imagery of the Project area.

**4906-6-05 (B)(8): Property Owner List**

The Project is located on existing right-of-way and no new right-of-way is required for the Project. Table 1 contains a list of property owners effected by the project.

**Table 1: Property Owner List**

<b>Parcel Number</b>	<b>Property Owner</b>	<b>Property Address</b>	<b>Easement Status</b>
32-00507.001	American Transmission Systems Inc.	Hayes Avenue Sandusky, OH 44870	Owned in Fee
32-90507.001	American Transmission Systems Inc.	Patten Tract Rd. Sandusky, OH 44870	Owned in Fee

**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: 345 kV
- Conductors: 954 kcmil 48/7 ACSR (2 per phase)
- Static Wire: 7#8 Alumoweld
- Insulators: Polymer
- ROW Width: 110 feet

Structure Types: Exhibit 4: One steel mono pole with a structure height of 135’ feet. Concrete base. One (1) structure is needed.

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

The closest occupied residence or institution is approximately 1258 feet from the proposed transmission line centerline therefore no Electric and Magnetic Field (“EMF”) calculations are required by this code provision.

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

The estimated capital cost for the proposed project is approximately \$429,000.

**4906-6-05 (B)(10): SOCIAL AND ECOLOGICAL IMPACTS**

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

The Project is located in Perkins Township, Erie County Ohio. The main land use around the Project is agricultural.

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

Agricultural land does exist within the Project’s disturbance area. The land is owned by ATSI but leased to a tenant farmer. Based on the time period of construction no significant impacts are expected. A list of all agricultural land and acreage including agricultural district land is given in Table 2.

**Table 2: Agricultural Lands within the Project’s Disturbance Area**

<b>Parcel Number</b>	<b>Property Owner</b>	<b>Acreage</b>	<b>Agricultural District</b>	<b>Agricultural District Expiration</b>
32-00507.001	American Transmission Systems, Inc.	119	None	None

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

As part of the investigation for this application, a search of Ohio Historic Preservation Office (“OHPO”) online database was conducted to identify the existence of any significant archeological or cultural resource sites within 0.5 miles of the Project Area. The results of the search are shown in Exhibit 5. The specific location of any archeological resources are excluded from the map and are instead listed in Table 3.

The OHPO database includes all Ohio listings on 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 indicate that no listed NRHP sites and no NRHP eligible sites were identified within 0.5 miles of the Project 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. Three (3) OAI listed archeological resources have been previously inventoried within 0.5 miles of the Project area and are shown in Table 3. No listed structural resource is located within 0.5 miles of the Project area. Two (2) previous cultural resource surveys were conducted within 0.5 miles of the Project area and are listed in Table 4. No OGS cemeteries are located within 0.5 miles of the Project area

**Table 3. OAI Listed Archeological Resources**

<b>OAI Number</b>	<b>Affiliation</b>	<b>Description</b>	<b>County</b>	<b>Quad Name</b>
ER0168	Prehistoric and Historic	Unknown Prehistoric	Erie	Sandusky
ER0172	Prehistoric and Historic	Unknown Prehistoric	Erie	Kimball

ER0179	Prehistoric and Historic	Workshop	Erie	Kimball
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**Table 4. List of Previous Cultural & Historic Resource Survey**

Year	Name	County	Municipality
1981	A PHASE II ARCHAEOLOGICAL SURVEY OF THE NASA PLUM BROOK STATION EXCESS PROPERTY PARCEL, ERIE COUNTY, OHIO	Erie	Perkins Township
2013	Phase I Cultural Resources Survey of the Hayes Substation Project in Perkins Township, Erie County, Ohio	Erie	Perkins Township
2016	Phase I Cultural Resources Survey for the Proposed Hayes-West Fremont 29.2-Mile (47.0-Kilometer) FirstEnergy Transmission Line Corridor in Erie and Sandusky Counties, Ohio	Erie/Sandusky	Multiple

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

No additional government agency requirements are needed at the time of filing.

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

The Project area is within 200 feet of the approved Hayes – West Fremont 138 kV Transmission Line Project which is already under construction. As such, the Project Area was evaluated during the preparation and review of the application in that case and clearances covering the Project Area, from both the Ohio Department of Natural Resources (“ODNR”) and the US Fish and Wildlife Service (“USFWS”) have already been provided to the Board. Since the proposed construction limits for this Project lie entirely within the survey corridor evaluated for that project, this Project will not alter any impacts already identified and approved by the Board. Further, as the proposed

work limits for the Project, including access routes, lie entirely within maintained transmission line ROW in an active agricultural field, no other impacts are expected.

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

Wetlands, streams and habitat suitability assessments completed in support of the Hayes-West Fremont 138 kV Transmission Line Project, OPSB Case No. 12-1636-EL-BTX covered the proposed Project limits. As the Project limits lie entirely within upland area that is under cultivation, the Project will not adversely affect any ecological features.

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 Electric 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 Letter of Notification Transmittal and Availability for Public Review**

This Construction Notice is being provided concurrently with its docketing with the Board to the following officials in Perkins Township, Erie County, Ohio.

**Erie County**

Commissioner Monaghan  
Erie County Board of  
Commissioners  
2900 Columbus Avenue  
Sandusky, OH 44870

Mr. Daniel  
County Administrator  
2900 Columbus Avenue  
Sandusky, OH 44870

Commissioner Old  
Erie County Board of  
Commissioners  
2900 Columbus Avenue  
Sandusky, OH 44870

Mr. Farschman P.E., P.S.  
Erie County Engineer  
2700 Columbus Avenue  
Sandusky, OH 44870-5551

Commissioner Shenigo  
Erie County Board of  
Commissioners  
2900 Columbus Avenue  
Sandusky, OH 44870

Mr. Rowland, Chairman  
Erie Conservation District  
Erie County Services Center  
2900 Columbus Avenue  
Sandusky, OH 44870

Mr. Heyman, Vice Chairman  
Erie Conservation District  
Erie County Services Center  
2900 Columbus Avenue  
Sandusky, OH 44870

**Perkins Township**

Mr. Coleman, Chairperson  
Board of Trustees  
2610 Columbus Ave  
Sandusky, OH 44870

Mr. Lang, Trustee  
Board of Trustees  
2610 Columbus Ave  
Sandusky, OH 44870

Mr. Ferrell, Trustee  
Board of Trustees  
2610 Columbus Ave  
Sandusky, OH 44870

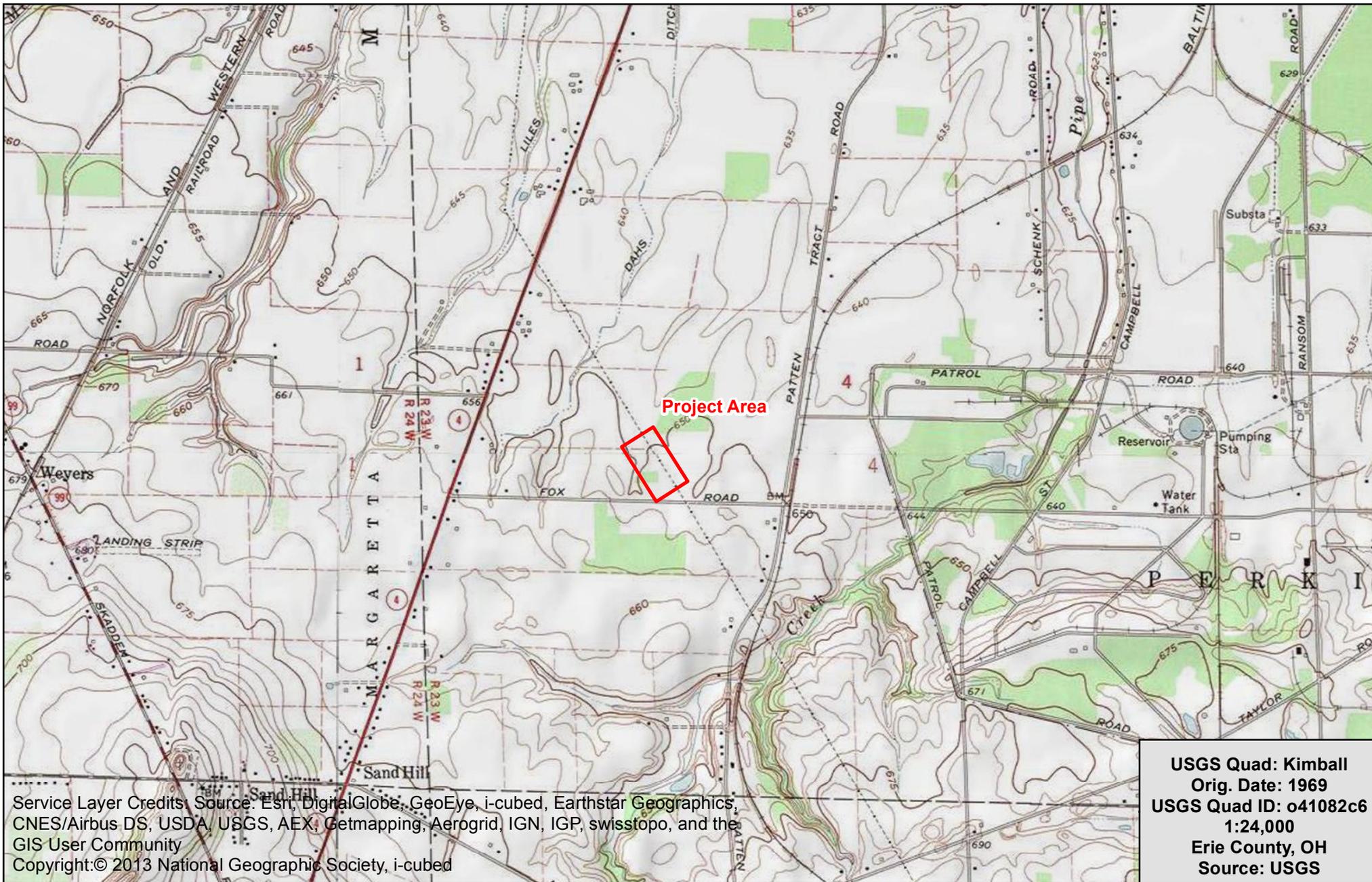
Ms. Schaefer  
Fiscal Officer  
2610 Columbus Ave  
Sandusky, OH 4487

## **Libraries**

Ms. Carver  
Executive Director  
Sandusky Library  
114 W. Adams St.  
Sandusky, Ohio 44870

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

Information is posted at [www.firstenergycorp.com/about/transmission\\_project/ohio.html](http://www.firstenergycorp.com/about/transmission_project/ohio.html) on how to request an electronic or paper copy of this Construction Notice application. The link to this website is being provided to meet the requirements of OAC Rule 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).



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USGS Quad: Kimball  
 Orig. Date: 1969  
 USGS Quad ID: o41082c6  
 1:24,000  
 Erie County, OH  
 Source: USGS

0 500 1,000 2,000 3,000 Feet

1:24,000

# Beaver-Davis Besse 345kV Transmission Line Structure Addition Project

Exhibit 1



**FirstEnergy**

Contains Privileged and Confidential Information and/or Critical Infrastructure Information  
 Do Not Release Pursuant to 18 C.F.R. § 388.112

Created on 7/24/2017



Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

0 500 1,000 2,000 3,000 Feet

1:24,000

## Beaver-Davis Besse 345kV Transmission Line Structure Addition Project

Exhibit 2



**FirstEnergy**

Created on 7/24/2017

Contains Privileged and Confidential Information and/or Critical Infrastructure Information  
Do Not Release Pursuant to 18 C.F.R. § 388.112

← To Davis Besse

4

New Beaver-Davis Besse 345 KV  
Transmission Line Structure Addition

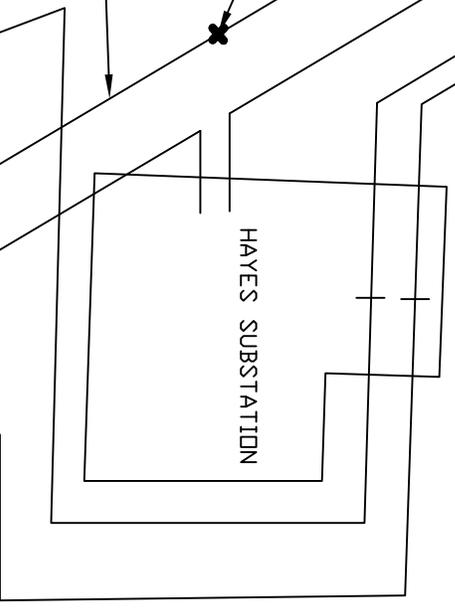
Miller Road

Beaver-Davis Besse  
345 KV Transmission Line

Hayes-West Fremont  
138 KV Transmission Line



PERKINS TOWNSHIP  
ERIE COUNTY, OH



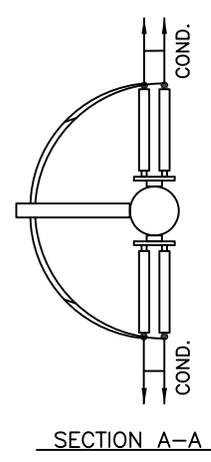
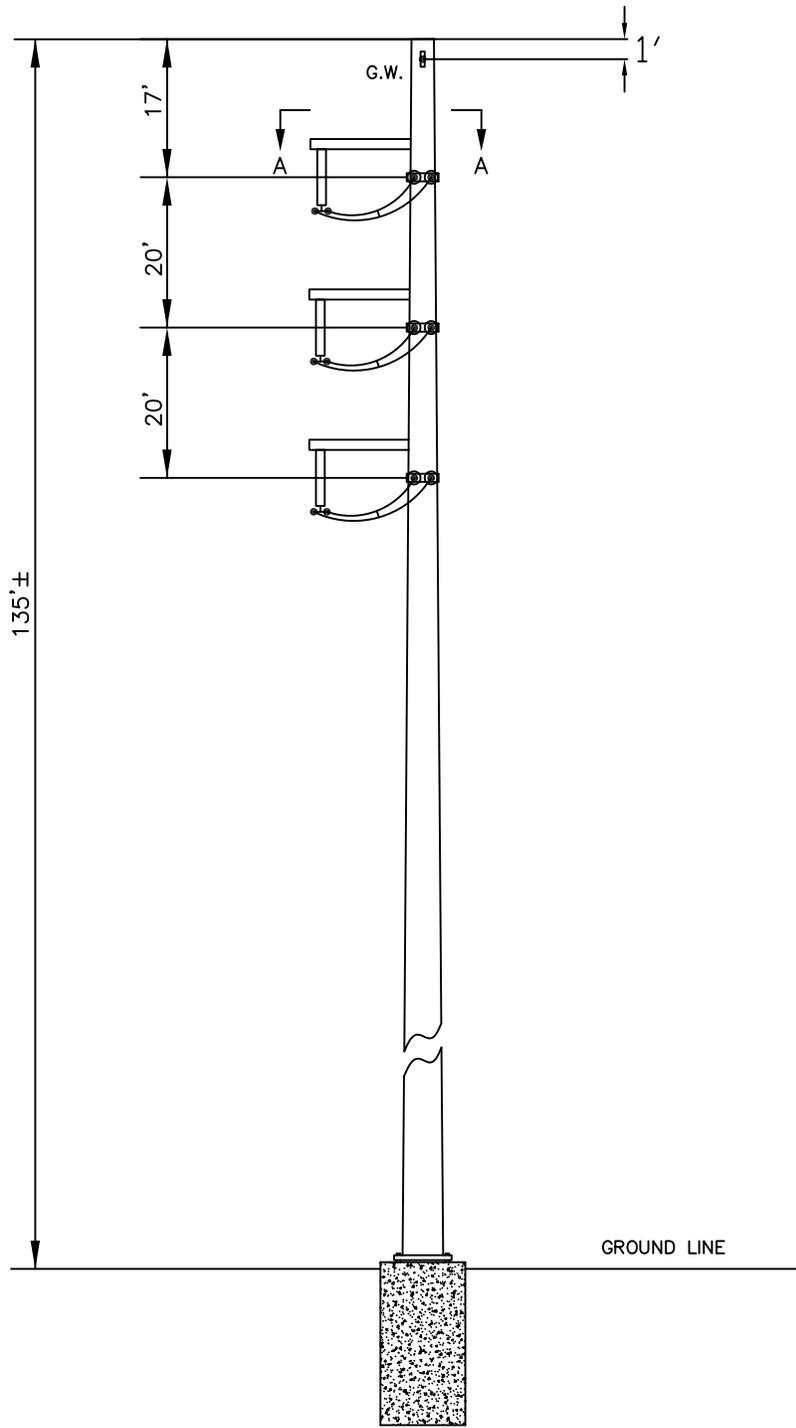
HAYES SUBSTATION

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

BEAVER-DAVIS BESSE 345 KV  
TRANSMISSION LINE  
STRUCTURE ADDITION PROJECT

GENERAL LAYOUT

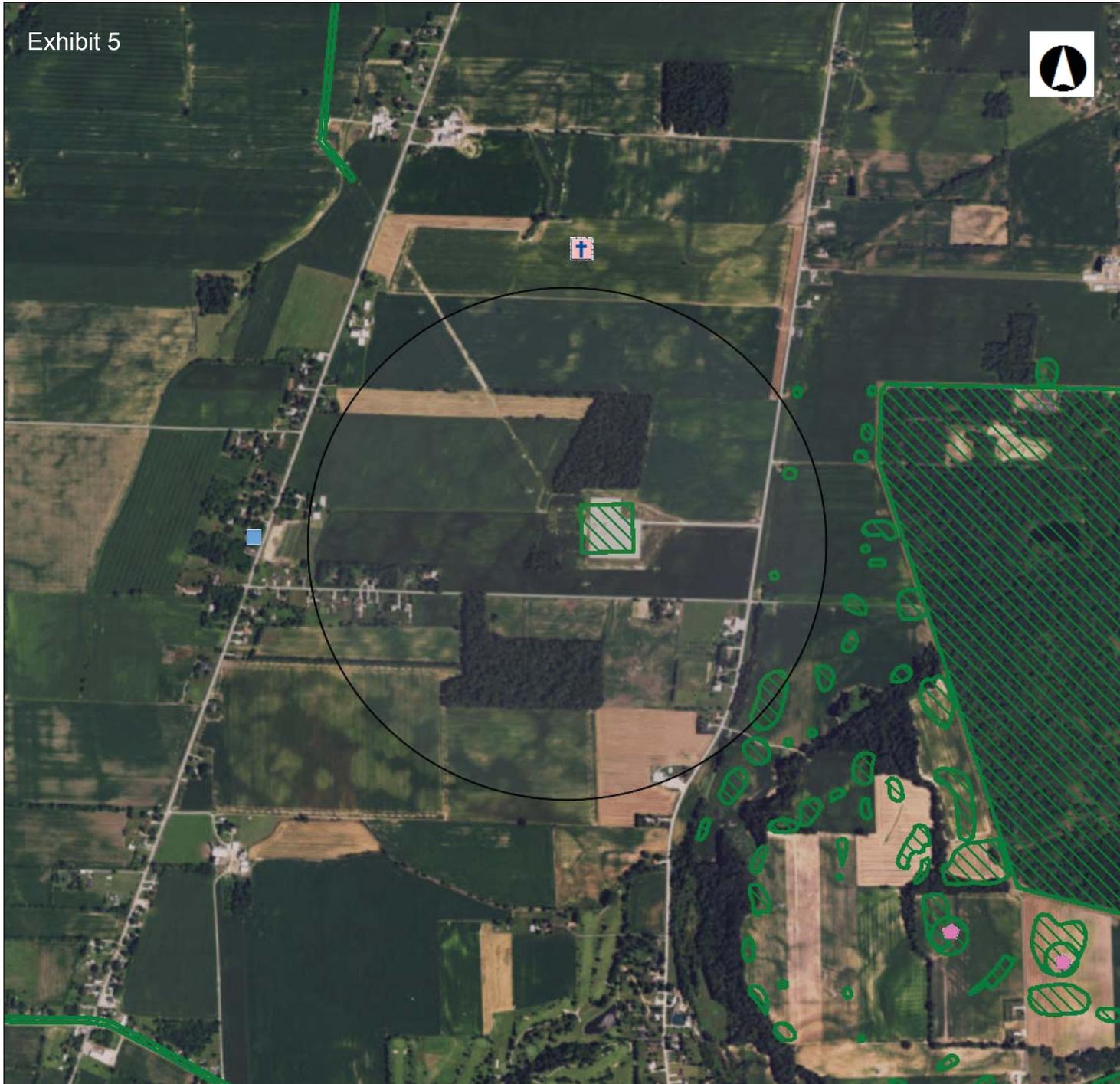
EXHIBIT 3



\*\* NOT TO SCALE

<b>ATSI</b> <small>American Transmission Systems, Inc.          a subsidiary of FirstEnergy Corp.</small>	BEAVER-DAVIS BESSE 345 kV STRUCTURE ADDITION PROJECT
SINGLE-CIRCUIT STEEL MONOPOLE WITH CONCRETE FOUNDATION	
EXHIBIT #4	

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



1: 24,000

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Datum: [Datum]  
Projection: WGS\_1984\_Web\_Mercator\_Auxiliary\_Sphere

