AMERICAN TRANSMISSION SYSTEMS, INCORPORATED
A FIRSTENERGY COMPANY

CONSTRUCTION NOTICE

INLAND-HARDING (S-8) 345 kV TRANSMISSION LINE STRUCTURE ADDITION
OPSB CASE NO.: 17-1571-EL-BNR

July 28, 2017

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

CONSTRUCTION NOTICE
INLAND-HARDING (S-8) 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:	Inland-Harding (S-8) 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 17-0913-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 install one new transmission structure on the Inland-Harding (S-8) 345 kV Transmission Line approximately 30 feet to northeast of the existing Structure #15517. The new transmission structure, Structure 15517-1, will be a steel monopole with concrete foundation capable of supporting wireless communication facilities in addition to the existing transmission line. As part of the project the Inland-Harding (S-8) 345 kV Transmission Line will be transferred from existing Structure 15517 to proposed Structure 15517-1 and the existing arms on Structure 15517 supporting the transmission line will removed.

It is anticipated that the new structure may be installed in two phases. The first phase is anticipated to include the portion of the pole necessary to support the transmission line,

static line and provide a location for installation of wireless communication facilities below the lowest conductor and above the static wire. The second phase would add an approximately 15-feet high section to the top of the pole to provide additional locations for installation of wireless communication facilities, if approved by the appropriate authorities. At completion of the second phase, the height of the pole will be the approximate maximum height of the pole depicted in Exhibit 4.

The general location of the Project is shown in Exhibit 1, a partial copy of the United States Geologic Survey, Cuyahoga County OH, Quad Map, ID number o40081D2. Exhibit 2 is a copy of Bing aerial imagery of the Project area. The Project is located at the southern end of East 81st Street in the City of Cleveland, Cuyahoga County, Ohio.

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 Item (2)(a) of the Application Requirement Matrix for Electric Power Transmission Lines, Appendix A of OAC Rule 4906-1-01. This item states/These items state:

> *(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 less than two miles.

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

Structure #15517 currently has wireless communication facilities mounted near the top. Additional wireless communication facilities have been proposed for the structure.

Modeling of the structure to account for the loads from the additional antennas resulted in violation of North American Electric Safety Code ("NESC") loading criteria under certain high wind conditions. The analysis indicated that the increased load on the pole causes the pole shaft and/or the baseplate to be overloaded. To accommodate the potential installation of additional wireless communication facilities, if approved by the appropriate authorities, a new steel pole structure with a concrete foundation capable of supporting multiple wireless communication facilities is needed.

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)(2)(b) 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 Inland-Harding (S-8) 345 kV Transmission Line. The project area is located approximately 9 inches (11" x 17" printed version) from the left edge of the map and 2 ¼ 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.

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

The one alternative considered was replacing the existing Structure #15517 directly instead of adding a new structure. The existing Structure #15517 currently supports two different circuits, the Inland-Harding (S-8) 345 kV Transmission Line and the Perry-Harding (S-6) 345 kV Transmission Line. Installing the new structure will eliminate the need for outages on both transmission lines ensuring the reliable operation of the electric transmission grid during construction.

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 Project as necessary. ATSI will maintain a copy of this Construction

Notice on FirstEnergy's website. Letters will be sent to affect 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 October 9th, 2017 and completed by December 22nd, 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, Cuyahoga County OH, quadrangle map (Quad Order ID o40081D2). Exhibit 2 provides 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

Parcel Number	Property Owner	Property Address	Easement Status
134-05-027	Cleveland Electric Illuminating, Co.,	East 81st Street, Cleveland, OH 44105	Owned in Fee
134-30-002	New York Central Lines LLC,	NYC RR Corridor, Cleveland, OH 44105	Easement Obtained

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 Shield Wire
Insulators:	Porcelain
ROW:	110 feet
Structure Types:	Exhibit 4: Single-Circuit Deadend Steel Monopole Structure with Concrete Foundation. One (1) structure is needed.

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

The closest occupied residence or institution is approximately 50 feet from the proposed transmission line centerline therefore Electric and Magnetic Field ("EMF") calculations are required by this code provision.

4906-6-05 (B)(9)(b)(i): Calculated Electric and Magnetic Fields Strength Levels

Table 2 itemizes the line loading of the Inland-Harding (S-8) 345 kV and the Harding-Leroy Center (S-6) 345 kV Transmission Lines. The normal line loading represents FirstEnergy's peak system load for the transmission lines. The emergency line loading represents the maximum line loading under contingency operation. The winter rating is based on the continuous maximum conductor rating ("MCR") of the circuits for the single conductors per phase and an ambient temperature of zero degrees centigrade (32 °F), wind speed of 1.3 miles per hour, and a circuit design operating temperature of 100 °C (212 °F).

Table 2: Transmission Line Loading

Line Name	Normal Loading Amps	Emergency Loading Amps	Winter Rating Amps
Inland-Harding (S-8) 345 kV Transmission Line	181.3	692	2955
Harding-Leroy Center (S-6) 345 kV Transmission Line	126.3	419	2955

Table 3 provide an approximation of the magnetic and electric fields strengths of the Inland-Harding (S-8) 345 kV and the Harding-Leroy Center (S-6) 345 kV Transmission Lines are all calculated in a 110-foot wide right-of-way. The calculations provide an approximation of the electric and magnetic fields levels based on specific assumptions utilizing the EPRI EMF Workstation 2015 program software. This program software assumes the input transmission line configuration is located on flat terrain. Also, a balanced, three-phase circuit loading is assumed for the transmission circuit. The model utilizes the normal, emergency, and winter rating of the transmission lines.

Table 3: EMF Calculations for Inland-Harding (S-8) 345 kV and the Harding-Leroy Center (S-6) 345 kV Transmission Lines, 110-foot wide right-of-way

Inland-Harding (S-8) 345 kV and the Harding-Leroy Center (S-6) 345 kV Transmission Lines, 110-foot wide right-of-way		**Electric Field kV/m**	**Magnetic Field mG**
Normal Loading	Under Lowest Conductors	1.72	3.39
	At Right-of-Way Edges	0.94 / 0.96	1.57 / 2.74
Emergency Loading	Under Lowest Conductors	1.72	13.17
	At Right-of-Way Edges	0.94 / 0.96	6.0 / 11.0
Winter Rating	Under Lowest Conductors	1.72	58.39
	At Right-of-Way Edges	0.94 / 0.96	39.2 / 36.91

4906-6-05 (B)(9)(b)(ii): Alternative Design Consideration for Electric and Magnetic Fields

The strength of EMFs can potentially be reduced by installing the transmission line conductors in a compact configuration and, for multiple circuit transmission lines, by selecting conductor phasing that reduces the field strengths. ATSI and designs its facilities according to the requirements of the NESC. The pole heights and configuration were chosen based on NESC specifications, engineering parameters, and cost. ATSI's typical practice, as proposed in this the new construction portions of this Project, is to install 345 kV transmission lines primarily on steel monopole structures with bundled

conductors, that have a compact design that reduces EMF field strengths in comparison to other installations.

Because the proposed structure is attaching the existing conductors at the approximately similar heights as the existing structure and there is no change in the existing voltage or loading, the strength of the EMFs will be similar as what is currently present in the project area.

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

The estimated capital cost for the proposed project is approximately $464,428.

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

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

The Project is located in Cleveland, Cuyahoga County Ohio. The main land use around the Project is residential and railroad corridor.

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

Agricultural land does not exist within the Project's disturbance area.

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

As part of the investigation, 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 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 one (1) listed NRHP site was identified within 0.5 miles of the

Project potential disturbance area. No NRHP eligible sites were identified. The NRHP site is shown in Exhibit 6, Table 1.

The OHPO database also includes listings of the Ohio Archaeological Inventory ("OAI"), the Ohio Historic Inventory ("OHI"), previous cultural resource surveys, and the Ohio Genealogical Society ("OGS") cemetery inventory. No OAI listed archeological resource has been previously inventoried within 0.5 miles of the Project area. Seventy-five (75) listed structural resource are located within 0.5 miles of the Project area and are shown in Exhibit 6, Table 2. Two (2) previous cultural resource surveys were conducted within 0.5 miles of the Project area and are provided in Exhibit 6, Table 3. One (1) OSG cemetery is located within 0.5 miles of the Project area and is provided in Exhibit 6, Table 4. One (1) Historic Tax Credit Project is located within 0.5 miles of the Project area and is provided in Exhibit 6, Table 5.

The NRHP site, the Miles Park Historic District, from the nearest boundary is located approximately 0.25 miles from the Project area. Due to its proximity to the Project area, the local topography, and the surrounding setting, the existing transmission tower (#15517) is visible from the western edge of the historic district. The final height of the proposed structure will be approximately 186-feet high, which will be achieved through several installation phases. The proposed structure will be a monopole style tower similar to existing structure #15517 and other transmission structures in the view shed.

The existing view shed between the Miles Park Historic District and the Project Area contains numerous distribution lines along with existing 138 kV and 345 kV transmission lines including the Glenwillow-Inland (S-5) 345 kV and the Harding-Leroy Center (S-6) 345 kV Transmission Lines. Several existing transmission towers in the view shed exceed 200-feet with the nearest being approximately 0.9 miles from the edge of the Miles Park Historic District.

Since the current proposed structure will be a similar style to the existing tower being replaced and the existing towers in the view shed, the presence of existing transmission

towers in the view shed exceeding the height of the proposed transmission tower, and the numerous distribution and transmission line in the view shed surrounding the Miles Park Historic District, we do not anticipate the proposed Project to have an adverse visual effect on the Miles Park Historic District.

The closest OHI site is located approximately 0.17 miles from the project area. No impacts from the Project are expected to these sites. There are no known archeological sites near the Project and two adjacent Phase 1 surveys areas nearby found no sites. It is anticipated that no impacts to any archeological resource will occur.

One (1) OGS cemetery was located approximately 0.24 miles from the Project area. The cemetery is listed as the Axtel Street-Old Newburg Cemetery. Information on the OHPO website from the Slavic Village Historical Society indicates the burials were moved in 1881 to the nearby Harvard Grove Cemetery to accommodate industrial and railroad expansion in the area. Since the cemetery doesn't exist anymore, no impacts to it will occur.

One (1) Historic Tax Credit Project is located approximately 0.35 miles from the Project area. No impacts to the are expected this site due to the distance away from the Project area.

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

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

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

As part of the investigation, ATSI submitted a request to the Ohio Department of Natural Resources ("ODNR") Office of Real Estate to conduct an Environmental Review on April 12th, 2017. As part of the Environmental Review, the ODNR Office of Real Estate conducted a search of the ODNR Division of Wildlife's Natural Heritage Database to research the presence of any endangered, threatened, or rare species within one (1) mile

of the Project area. The ODNR's Office of Real Estate's response on June 19th, 2017 indicated that based on their records, the identified Project area is within the range of three (3) federal and state endangered, four (4) state endangered, and three (3) state threatened species. A copy of ODNR's Office of Real Estate's response is included as Exhibit 7.

As part of the investigation, ATSI also submitted a request to the US Fish and Wildlife Service ("USFWS") for an Ecological Review on April 12th, 2017, to research the presence of any endangered, threatened, or rare species within one (1) mile of the Project area. A copy of USFWS's Ecological Review response is included as Exhibit 7. The USFWS's response on April 17th, 2017 indicated that the Project area is within the range of one (1) federal and state endangered, and one (1) federal and state threatened species. A list of all endangered, threatened, and rare species, as identified by ODNR and USFWS, is provided in Table 4.

Table 4. List of Endangered, Threatened, and Rare Species.

Common Name	Scientific Name	Federal Listed Status	State Listed Status	Affected Habitat
Indiana Bat	*Myotis sodalis*	Endangered	Endangered	Trees & Forest
Northern Long-Ear Bat	*Myotis septentrionalis*	Threatened	Threatened	Trees & Forest
Channel darter	*Percina copelandi*	N/A	Threatened	Water
Bigmouth shiner	*Notropis dorsalis*	N/A	Threatened	Water
Blanding's turtle	*Emydoidea blandingii*	N/A	Threatened	Wetlands, Lakes, & Streams
Spotted turtle	*Clemmys guttata*	N/A	Threatened	Wetlands, Lakes, & Streams
Piping glover	*Charadrius melodus*	Endangered	Endangered	Migrates thru State

Table 4. List of Endangered, Threatened, and Rare Species.				
Common Name	**Scientific Name**	**Federal Listed Status**	**State Listed Status**	**Affected Habitat**
Kirtland's warbler	*Setopharga kirtlandii*	Endangered	Endangered	Forrest & Scrubland
King rail	*Rallus elegans*	N/A	Endangered	Marsh & Grasslands
Upland sandpiper	*Bartramia longicuda*	N/A	Endangered	Grasslands
Black bear	*Ursus americanus*	N/A	Endangered	Trees & Forrest

The response from ODNR and USFWS indicated the Project is within the range of the federal and state endangered Indiana Bat (*Myotis sodalis*) and the federal and state threatened Northern Long-Eared Bat (*Myotis septentrionalis*). No tree clearing is needed for the Project as it is in an existing cleared right-of-way. Therefore, no impacts to these species are anticipated.

The response from the ODNR indicated that the Project is within the range of the state threatened channel darter (*Percina copelandi*). No in-water wok is proposed for the Project; therefore, no impacts are anticipated for this species.

The response from ODNR indicated that the Project is within the range of the state threatened Blanding's turtle (*Emydoidea blandingii*) and spotted turtle (*Clemmys guttata*). No impacts to these species are expected due to the Project's location and that no work is proposed in streams or wetlands.

The response from ODNR indicated that the Project is within the range of the federal and state endangered Piping Plover's (*Charadrius melodus*) and Kirtland's Warbler's (*Setophaga kirtlandii*). Because these species are migratory and do not nest within the State coupled with the lack of stopover habitat within the Project area, the Project is not anticipated to impact these species.

The response from ODNR indicated that the Project is within the range of the state endangered king rail (*Rallus elegans*). This species nests in deep bowls constructed out of grass and usually hidden very well in marsh vegetation from May 1st to August 1st. No impacts to this species are anticipated due to the Project's location and time of construction.

The response from ODNR indicated that the Project is within the range of the state endangered Upland Sandpiper's (*Bartramia longicauda*). This species nests on grassland or pasture habitats and the nesting period is April 15th to July 31st. These habitats are not located within the Project area and construction will occur outside of the nesting therefore, no impacts to this species are anticipated.

The response from ODNR indicated that the Project is within the range of the black bear (*Ursus americanus)*. Due to the mobility of this species, the project is not likely to impact this species.

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

ATSI submitted a request to the Ohio Department of Natural Resources ("ODNR") Office of Real Estate to conduct an Environmental Review on April 12th, 2017. The ODNR Office of Real Estate researched 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. The ODNR's Office of Real Estate's response on June 19th, 2017 indicated that they have no records of the aforementioned areas within one (1) mile of the identified project area.

ATSI conducted a wetland and stream assessment of the Project area screened via remote sensing. The investigation focused on an approximately 0.23-acre study area around the proposed Project centerline, access roads, and additional workspace areas. Based on an interpretation of aerial photography, National Wetland Inventory Maps, USGS

topographic mapping, and the Natural Resources Conservation Service Soil Survey, the potential for any wetland areas in the Project area is very low. A copy of the assessment is provided in Exhibit 9.

The Project work limits does 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 Construction Notice Transmittal and Availability for Public Review

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

Cuyahoga County

Mr. Armond Budish
Cuyahoga County Executive
2079 East 9th Street
Cleveland, OH 44115

Mr. Pernel Jones Jr., Vice President
Cuyahoga County Council
2079 East 9th Street - 8th Floor
Cleveland, OH 44115

Mr. Dan Brady, President
Cuyahoga County Council
2079 East 9th Street - 8th Floor
Cleveland, OH 44115

Ms. Jeanne Schmotzer, MA, CMC
Clerk of Council
Cuyahoga County Council
2079 East 9th Street - 8th Floor
Cleveland, OH 44115

Ms. Ruthy Skuly, Chair
Soil and Water Conservation District
3311 Perkins Ave, Suite 100
Cleveland, OH 44114

Ms. Sunny Simon, Vice Chair
Cuyahoga County Planning Comm.
2079 East 9th Street
Cleveland, OH 44115

Ms. Rachell Webb, Vice Chair
Soil and Water Conversation District
3311 Perkins Ave, Suite 100
Cleveland, OH 44114

Mr. Glenn Coyne, FAICP,
Executive Director
Cuyahoga County Planning Comm.
2079 East 9th Street
Cleveland, Ohio 44115

Mr. Nathan Kelley, Chair
Cuyahoga County Planning Comm.
2079 East 9th Street
Cleveland, OH 44115

City of Cleveland

Mayor Frank G. Jackson
City of Cleveland
601 Lakeside Ave.
Cleveland, Ohio 44114

Ms. Patricia J. Britt
Clerk of Council
601 Lakeside Avenue, Room 220
Cleveland, OH 44114

Mr. Kevin J. Kelley, President
City of Cleveland Council
601 Lakeside Avenue, Room 220
Cleveland, OH 44114

Mr. Freddy L. Collier, Director
City of Cleveland Planning Comm.
601 Lakeside Ave., Room 501
Cleveland, OH 44114

Mr. Anthony Brancatelli
City of Cleveland Council Ward 12
601 Lakeside Avenue, Room 220
Cleveland, OH 44114

Libraries

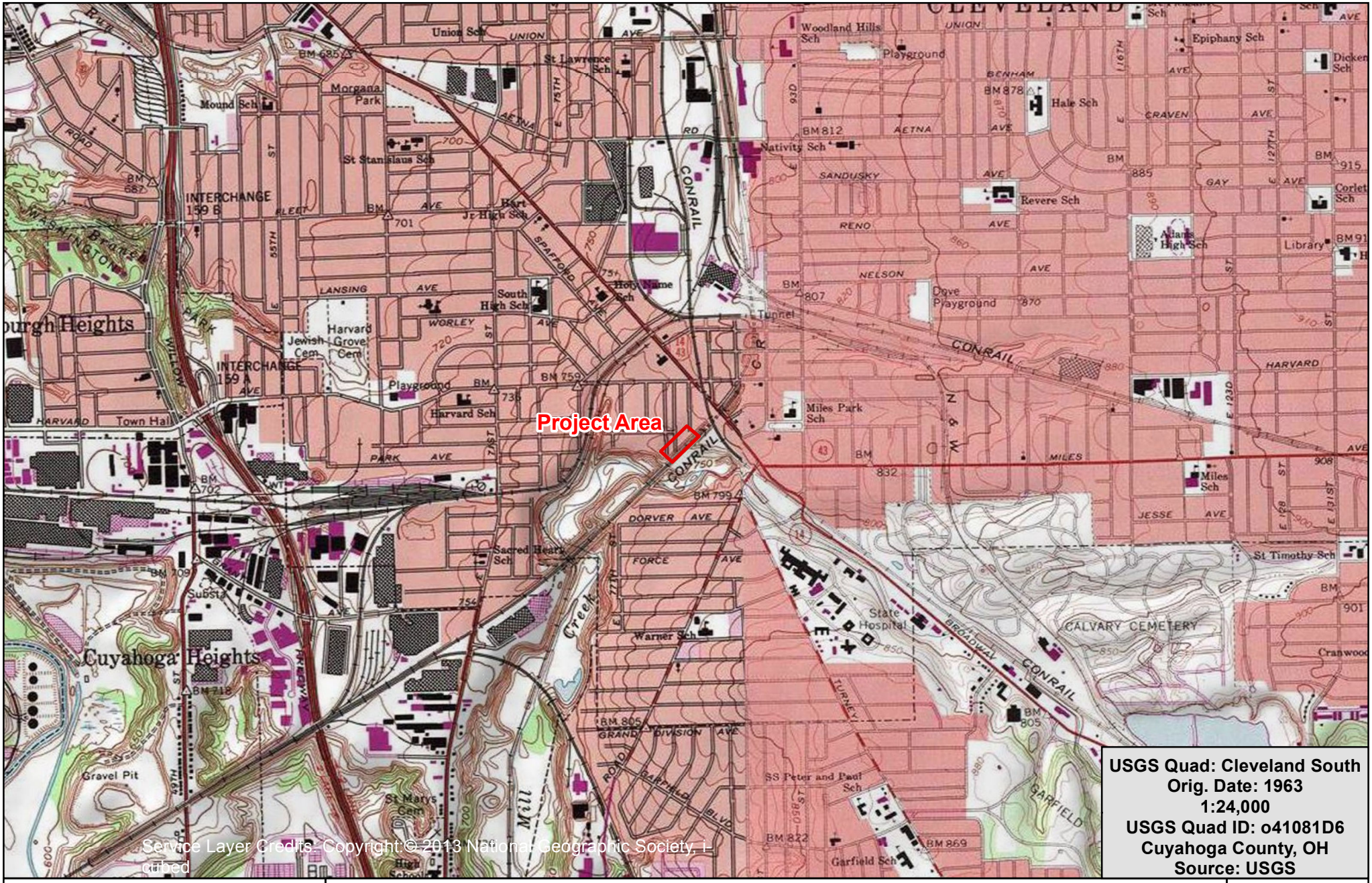
Ms. Pasha Moncrief, Manager
Fleet Branch
Cleveland Public Library
7224 Broadway Avenue
Cleveland, OH 44105

Mr. Lane Edwards, Manager
Garfield Heights Branch
Cuyahoga County Library
5409 Turney Road
Garfield Heights, OH 44125

Copies of the transmittal letters to these officials have been included with the transmittal letter submitting this Construction Notice to the Board, and are being provided to meet

the requirement of OAC Rule 4906-6-07 (B) to provide the Board with proof of compliance with the notice requirement to local officials in OAC Rule 4906-6-07 (A)(1) and to libraries in 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 website is being proved to meet the requirement 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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Cuyahoga County, OH
Source: USGS

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Exhibit 1

Inland-Harding (S-8) 345kV Transmission Line Structure Addition Project

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

N

FirstEnergy

Created on 7/11/2017

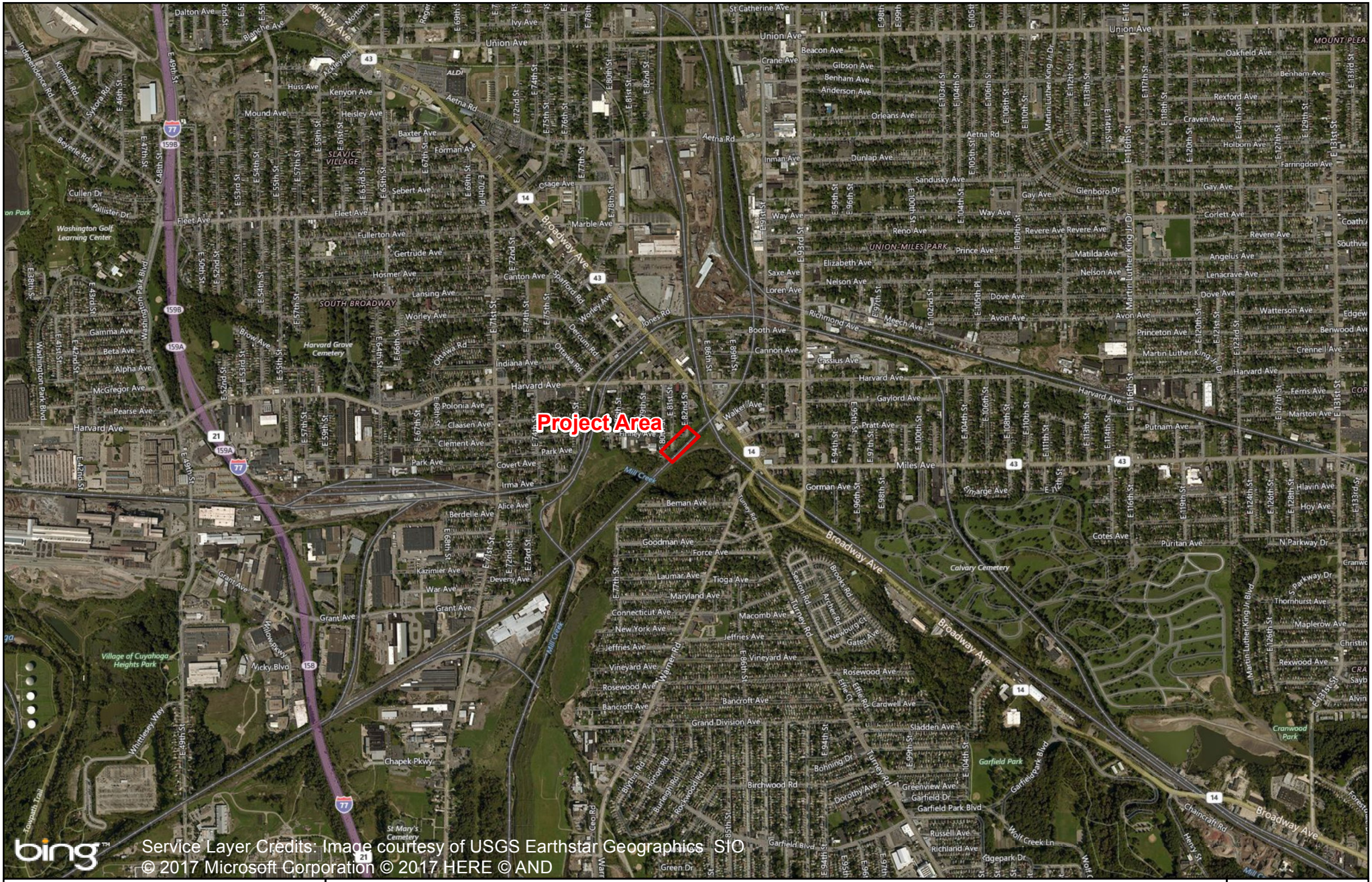

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Exhibit 2

Inland-Harding (S-8) 345kV Transmission Line Structure Addition Project

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

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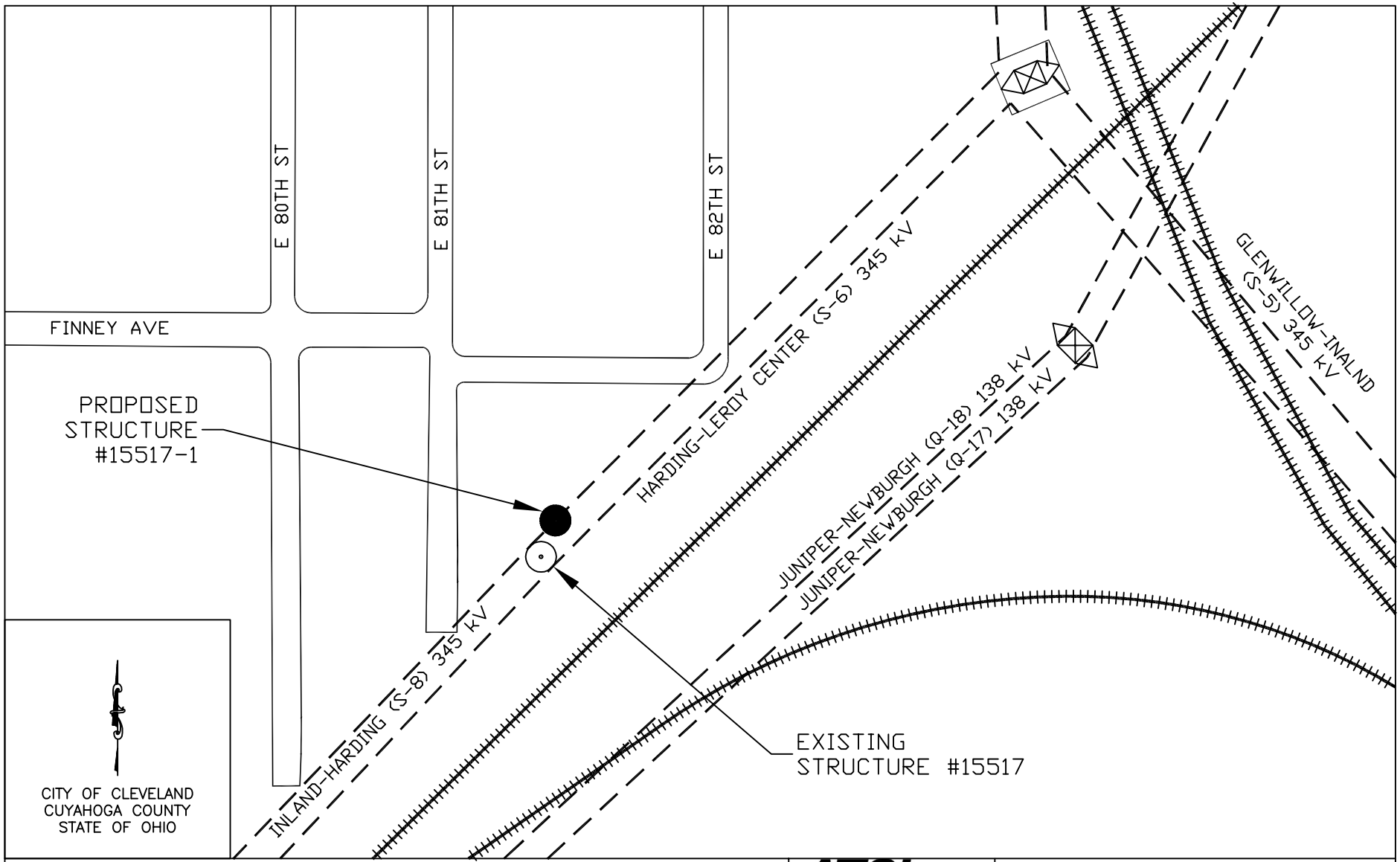
FirstEnergy

Created on 7/11/2017



LEGEND

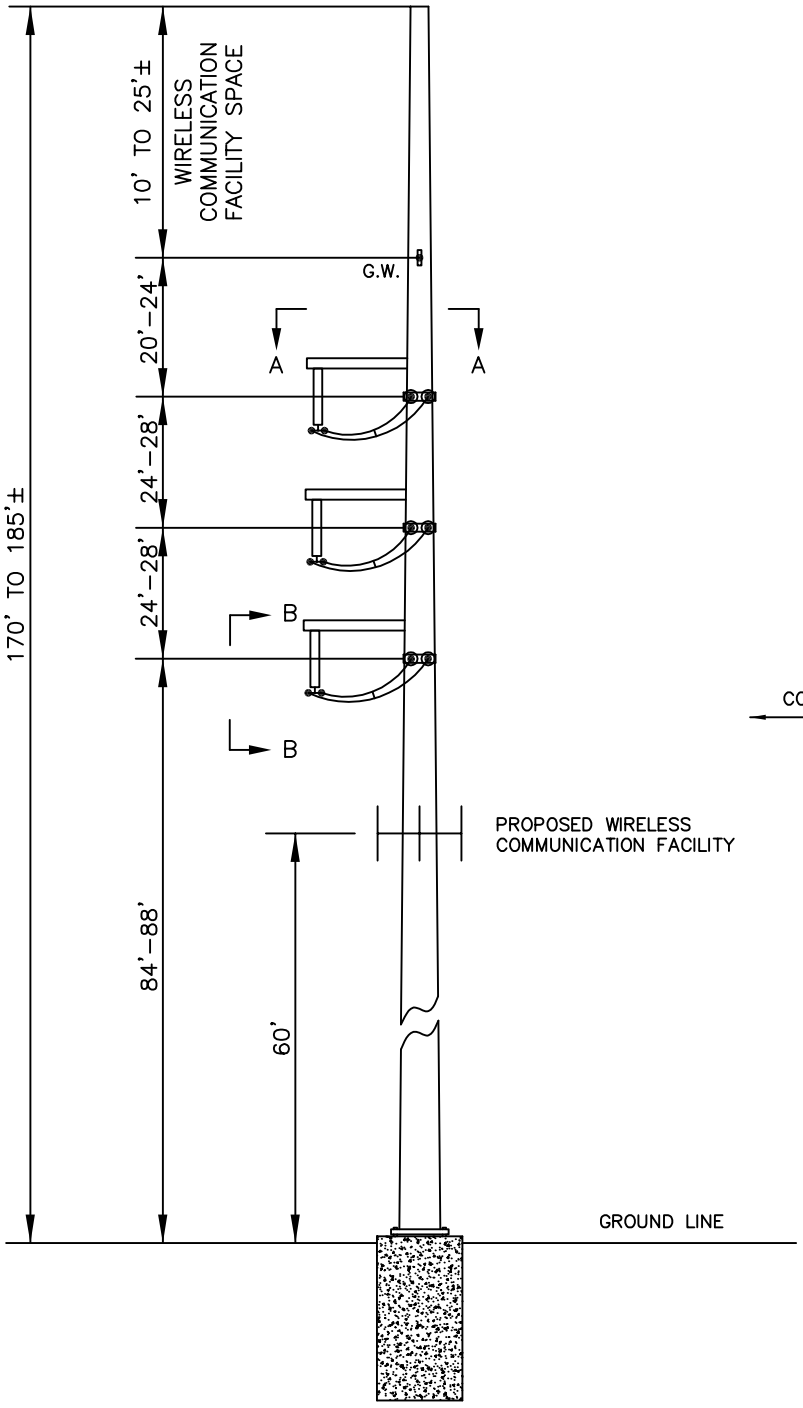
- EXISTING STEEL LATTICE STRUCTURE
- EXISTING STEEL MONOPOLE STRUCTURE
- NEW STEEL MONOPOLE STRUCTURE
- EXISTING CUSTOM STEEL LATTICE STRUCTURE
- EXISTING RAILROAD
- EXISTING TRANSMISSION LINE

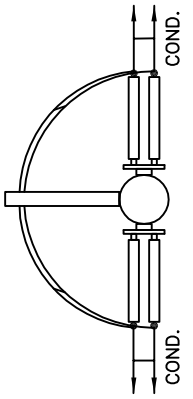
ATSI®
American Transmission Systems, Inc
a subsidiary of FirstEnergy Corp.

INLAND–HARDING (S–8)
345 kV TRANSMISSION LINE
STRUCTURE ADDITION PROJECT

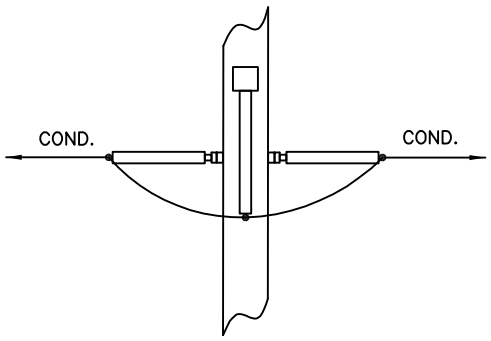
GENERAL LAYOUT

EXHIBIT 3





SECTION A–A



SECTION B–B

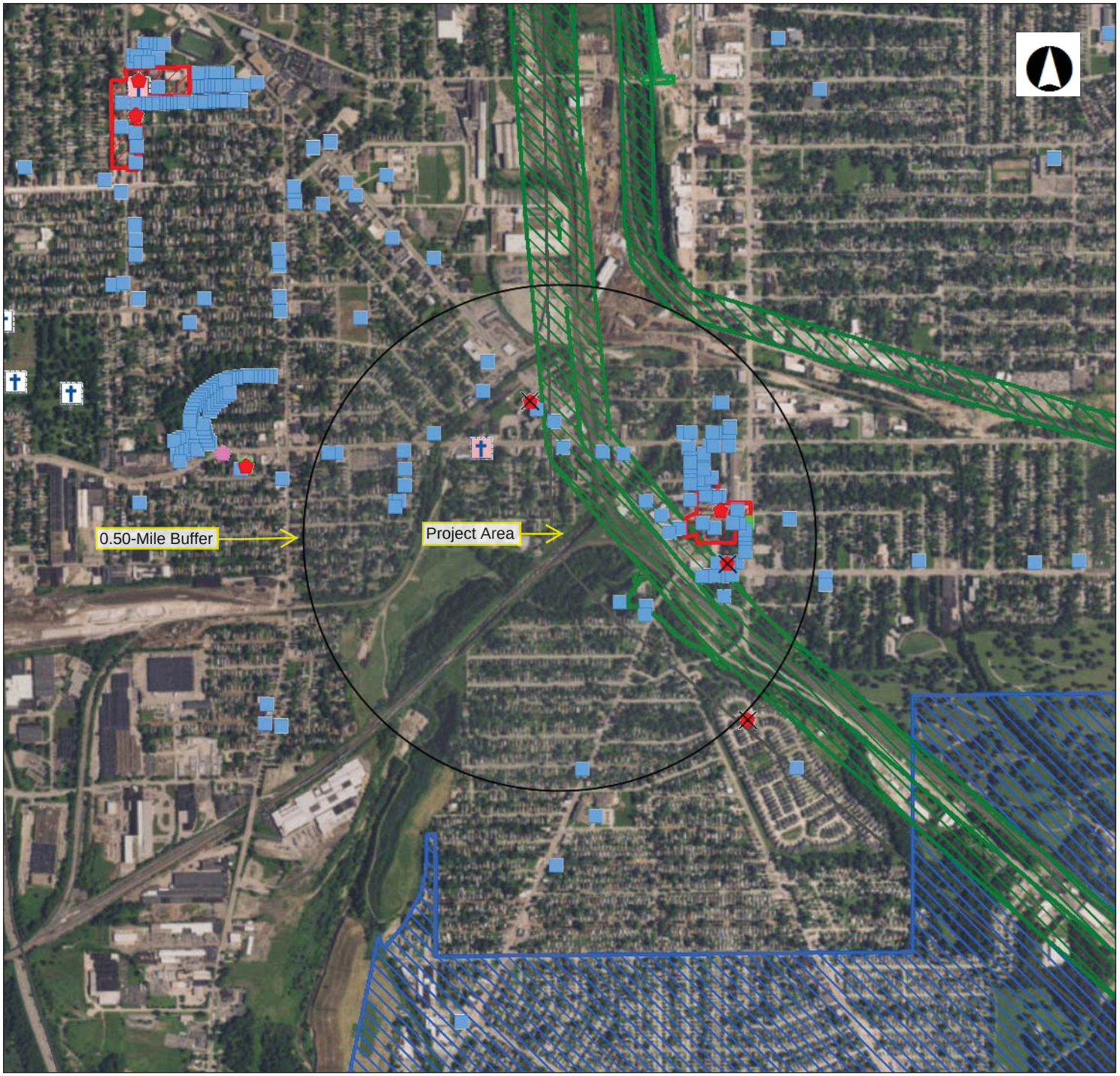
** NOT TO SCALE

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

INLAND–HARDING (S–8) 345 kV
STRUCTURE REPLACEMENT PROJECT

SINGLE–CIRCUIT DEADEND STEEL MONOPOLE
WITH CONCRETE FOUNDATION

EXHIBIT #4



Ohio Historic Preservation Office

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
- OAI Site Boundaries
- Phase1
- Phase2
- Phase3

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Copyright/Disclaimer

Datum: [Datum]

Projection: WGS_1984_Web_Mercator_Auxiliary_Sphere

Inland-Harding 345 kV Transmission Lines Structure Addition Project
Case Number 17-1571-EL-BNR

Date: July 28, 2017

Exhibit 6
Archaeological or Cultural Resources List

Table 1. List of National Historic Registered Places				
Resource Name	**Address**	**County**	**Applicable Criteria**	**Function**
Miles Park Historic District	8910 Miles Park Avenue	Cleveland	Event & Architecture/Engineering	Education

Table 2. List of OHI Listed Structural Resources				
OHI Number	**Present Name**	**Historic Use**	**County**	**Municipality**
CUY0109110	N/A	Single Dwelling	Cuyahoga	Cleveland
CUY0109210	Paladin Professional Sound	Fire station	Cuyahoga	Cleveland
CUY0109510	N/A	Single Dwelling	Cuyahoga	Cleveland
CUY0110407	Cleve Railway Station	Rail Related	Cuyahoga	Cleveland
CUY0110507	JL Goodman Furn Store	Retail Store/Shop	Cuyahoga	Cleveland
CUY0110610	N/A	Single Dwelling	Cuyahoga	Cleveland
CUY0108810	Triumph Church and Kingdom of God	Church/Religious Structure	Cuyahoga	Cleveland
CUY0108910	N/A	Single Dwelling	Cuyahoga	Cleveland
CUY0109010	Mount Esther Missionary	Fraternal/Patriotic org.	Cuyahoga	Cleveland
CUY0101307	Jones Rd Congreg Church	Church/Religious Structure	Cuyahoga	Cleveland

Table 2. List of OHI Listed Structural Resources				
OHI Number	**Present Name**	**Historic Use**	**County**	**Municipality**
CUY0101407	N/A	Residential Domestic	Cuyahoga	Cleveland
CUY0101507	New Swan Café	COMMERCIAL	Cuyahoga	Cleveland
CUY0109310	Newburgh Methodist Church	Church/Religious Structure	Cuyahoga	Cleveland
CUY0109410	Our Redeemer Missionary Baptist Church	Church/Religious Structure	Cuyahoga	Cleveland
CUY0108310	Masonic Temple	Fraternal/Patriotic Org	Cuyahoga	Cleveland
CUY0101607	Harvard Bldg	COMMERCIAL	Cuyahoga	Cleveland
CUY0969410	Moore House	Single Dwelling	Cuyahoga	Cleveland
CUY0969510	Midwest Properties Inc	Single Dwelling	Cuyahoga	Cleveland
CUY0966810	Wilson Apartment House	Double	Cuyahoga	Cleveland
CUY0966910	Evangelistic House	Single Dwelling	Cuyahoga	Cleveland
CUY0970810	Gillota Fuel Products House	Single Dwelling	Cuyahoga	Cleveland
CUY0966407	Safier's Inc.	Mill/Processing/ Manufacturing Facility	Cuyahoga	Cleveland
CUY0966510	Southend Hardware and Industrial Supply, Inc Block	Retail store/shop	Cuyahoga	Cleveland
CUY0966610	Zsigrai Building	Retail store/shop	Cuyahoga	Cleveland

Table 2. List of OHI Listed Structural Resources				
OHI Number	**Present Name**	**Historic Use**	**County**	**Municipality**
CUY0966710	Wilson's Interior Upholstery and Furniture	Apartment House	Cuyahoga	Cleveland
CUY0967010	Speaks House	Single Dwelling	Cuyahoga	Cleveland
CUY0967110	DJM Holdings House	Single Dwelling	Cuyahoga	Cleveland
CUY0967210	Beddard House	Single Dwelling	Cuyahoga	Cleveland
CUY0967310	Metrohealth Broadway Health Center	Professional	Cuyahoga	Cleveland
CUY0967410	Young House	Single Dwelling	Cuyahoga	Cleveland
CUY0967510	Abrams House	Single Dwelling	Cuyahoga	Cleveland
CUY0967610	Ali House	Single Dwelling	Cuyahoga	Cleveland
CUY0967710	Williams House	Single Dwelling	Cuyahoga	Cleveland
CUY0967810	Eagle LLC Apartment Building	Apartment House	Cuyahoga	Cleveland
CUY0967910	Union-Miles Development Corporation	Library-Public and Private	Cuyahoga	Cleveland
CUY0968010	Gee House	Single Dwelling	Cuyahoga	Cleveland
CUY0968110	High Hope Apolistic Church	Church/Religious Structure	Cuyahoga	Cleveland
CUY0968210	Brown and Stafford House	Double	Cuyahoga	Cleveland
CUY0968310	Brewer House	Single Dwelling	Cuyahoga	Cleveland

Table 2. List of OHI Listed Structural Resources				
OHI Number	**Present Name**	**Historic Use**	**County**	**Municipality**
CUY0968410	Davenport House	Single Dwelling	Cuyahoga	Cleveland
CUY0968510	Pentecostal Determine Church	Church/Religious Structure	Cuyahoga	Cleveland
CUY0968610	Laster House	Single Dwelling	Cuyahoga	Cleveland
CUY0968710	Opalenik House	N/A	Cuyahoga	Cleveland
CUY0968810	Jones House	Single Dwelling	Cuyahoga	Cleveland
CUY0968910	McCoy House	Double	Cuyahoga	Cleveland
CUY0969010	McCoy House	Single Dwelling	Cuyahoga	Cleveland
CUY0969110	Seay House	Single Dwelling	Cuyahoga	Cleveland
CUY0969210	Kish House	Single Dwelling	Cuyahoga	Cleveland
CUY0969310	Moore House	Single Dwelling	Cuyahoga	Cleveland
CUY0969610	State of Ohio Forfeiture CS# 720008	Single Dwelling	Cuyahoga	Cleveland
CUY0643210	N/A	Mill/Processing/ Manufacturing Facility	Cuyahoga	Garfield Heights
CUY0643310	Maude Bennett House	Single Dwelling	Cuyahoga	Garfield Heights
CUY0643410	N/A	Commercial	Cuyahoga	Garfield Heights
CUY0989910	Pentecostal Determine Church of God	Church/Religious Structure	Cuyahoga	Cleveland

Table 2. List of OHI Listed Structural Resources				
OHI Number	**Present Name**	**Historic Use**	**County**	**Municipality**
CUY1004707	Ed Keating Center	Office	Cuyahoga	Cleveland
CUY0969710	Burke House	Single Dwelling	Cuyahoga	Cleveland
CUY0969810	Trabert House	Single Dwelling	Cuyahoga	Cleveland
CUY0969910	Ademuyyiwa House	Single Dwelling	Cuyahoga	Cleveland
CUY0970010	Ademuyyiwa House	Single Dwelling	Cuyahoga	Cleveland
CUY0970110	J & Dee's Auto Sales	Road (vehicular) Related	Cuyahoga	Cleveland
CUY0970210	Mays House	Single Dwelling	Cuyahoga	Cleveland
CUY0970310	Daniels House	Single Dwelling	Cuyahoga	Cleveland
CUY0970410	Daniels House	Single Dwelling	Cuyahoga	Cleveland
CUY0970507	Jablonsnowski House	Single Dwelling	Cuyahoga	Cleveland
CUY0970607	Williams House	Single Dwelling	Cuyahoga	Cleveland
CUY0970907	Cuyahoga County Land Reutilization	Single Dwelling	Cuyahoga	Cleveland
CUY0971007	Cuyahoga County Land Reutilization	Double	Cuyahoga	Cleveland
CUY0971107	Cuyahoga County Land Reutilization	Double	Cuyahoga	Cleveland
CUY0971207	Miccio House	Single Dwelling	Cuyahoga	Cleveland

Table 2. List of OHI Listed Structural Resources				
OHI Number	**Present Name**	**Historic Use**	**County**	**Municipality**
CUY0129210	N/A	Commercial	Cuyahoga	Cleveland
CUY0111110	N/A	Single Dwelling	Cuyahoga	Cleveland
CUY0361610	Newburgh Station	Post Office	Cuyahoga	Cleveland
CUY0058207	Safier's Inc	Rail Related	Cuyahoga	Cleveland

Table 3. List of Previous Cultural & Historic Resource Survey			
Year	**Name**	**County**	**Municipality**
1978	An Assessment of the Archaeological Resources for the Proposed I-490 Project, Cuyahoga County	Cuyahoga	Cleveland
2001	Phase I Cultural Resources Survey for the Proposed CUY-Mill Creek Trail (PID 22187) Mill Creek Falls Overlook and Trail Project, Cleveland, Cuyahoga County, Ohio (Short Report)	Cuyahoga	Cleveland

Table 4. List of OGS cemeteries			
OGS ID	**Name**	**County**	**Location**
2555	Axtel Street-Old Newburg	Cuyahoga	Not confident

Table 5. List of Historic Tax Credit Projects				
OHI Number	**Name**	**Address**	**County**	**Municipality**
CUY	Miles Park Carnegie Library	4120 E. 93rd Street	Cuyahoga	Cleveland

EXHIBIT 7

Ohio Department of Natural Resources

JOHN R. KASICH, GOVERNOR JAMES ZEHRINGER, DIRECTOR

Office of Real Estate
Paul R. Baldridge, Chief
2045 Morse Road – Bldg. E-2
Columbus, OH 43229
Phone: (614) 265-6649
Fax: (614) 267-4764

June 19, 2017

William Beutler
FirstEnergy
76 South Main Street
Akron, Ohio 44308

Re: 17-311; Inland-Harding (S-8) 345 kV Transmission Line Structure Addition Project

Project: The proposed project includes the installation of one new transmission structure approximately 30 feet to northeast of the existing Structure #15517.

Location: The proposed project is located in the City of Cleveland, Cuyahoga 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 no records at or within a one-mile radius of the project area:

A review of the Ohio Natural Heritage Database indicates there are no records of state endangered or threatened plants or animals within the project area. There are also no records of state potentially threatened plants, special interest or species of concern animals, or any federally listed species. In addition, we are unaware of any unique ecological sites, geologic features, animal assemblages, scenic rivers, state wildlife areas, state nature preserves, state or national parks, state or national forests, national wildlife refuges, or other protected natural areas within the project area. The review was performed on the project area you specified in your request as well as an additional one mile radius. Records searched date from 1980.

Please note that Ohio has not been completely surveyed and we rely on receiving information from many sources. Therefore, a lack of records for any particular area is not a statement that rare species or unique features are absent from that area. Although all types of plant communities have been surveyed, we only maintain records on the highest quality areas.

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 range of the Indiana bat (*Myotis sodalis*), a state endangered and federally endangered species. The following species of trees have relatively high value as potential Indiana bat roost trees: shagbark hickory (*Carya ovata*), shellbark hickory (*Carya laciniosa*), bitternut hickory (*Carya cordiformis*), black ash (*Fraxinus nigra*), green ash (*Fraxinus pennsylvanica*), white ash (*Fraxinus americana*), shingle oak (*Quercus imbricaria*), northern red oak (*Quercus rubra*), slippery elm (*Ulmus rubra*), American elm (*Ulmus americana*), eastern cottonwood (*Populus deltoides*), silver maple (*Acer saccharinum*), sassafras (*Sassafras albidum*), post oak (*Quercus stellata*), and white oak (*Quercus alba*). Indiana bat roost trees consists of trees that include dead and dying trees with exfoliating bark, crevices, or cavities in upland areas or riparian corridors and living trees with exfoliating bark, cavities, or hollow areas formed from broken branches or tops. However, Indiana bats are also dependent on the forest structure surrounding roost trees. If suitable habitat occurs within the project area, the DOW recommends trees be conserved. If suitable habitat occurs within the project area and trees must be cut, the DOW recommends cutting occur between October 1 and March 31. If suitable trees must be cut during the summer months, the DOW recommends a net survey be conducted between June 1 and August 15, prior to any cutting. Net surveys should incorporate either nine net nights per square 0.5 kilometer of project area, or four net nights per kilometer for linear projects. If no tree removal is proposed, this project is not likely to impact this species.

The project is within the range of the channel darter (*Percina copelandi*), a state threatened fish, and the bigmouth shiner (*Notropis dorsalis*), a state threatened fish. The DOW recommends no in-water work from April 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 Blanding's turtle (*Emydoidea blandingii*), a state threatened species. This species inhabits marshes, ponds, lakes, streams, wet meadows, and swampy forests. Although essentially aquatic, the Blanding's turtle will travel over land as it moves from one wetland to the next. Due to the location, the type of habitat present at the project site, and within the vicinity of the project area, and the type of work proposed, this project is not likely to impact this species.

The project is within the range of the spotted turtle (*Clemmys guttata*), a state threatened species. This species prefers fens, bogs and marshes, but also is known to inhabit wet prairies, meadows, pond edges, wet woods, and the shallow sluggish waters of small streams and ditches. Due to the location, the habitat at the project site and within the vicinity of the project area, and the type of work proposed, this project is not likely to impact this species.

The project is within the range of the piping plover (*Charadrius melodus*), a state endangered and federally endangered bird, and the Kirtland's warbler (*Setophaga kirtlandii*), a state endangered and federally endangered bird. These species do not nest in the state but do utilize stopover habitat as they migrate through the region. Due to the location, and the type of work proposed, this project is not likely to impact these species.

The project is within the range of the king rail (*Rallus elegans*), a state endangered bird. Nests for this species are deep bowls constructed out of grass and usually hidden very well in marsh vegetation. If this type of habitat will be impacted, construction should be avoided in this habitat

during the species' nesting period of May 1 to August 1. If this type of 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 to July 31. If this type of habitat will not be impacted, this project is not likely to impact this species.

The project is within the range of the black bear (*Ursus americanus*), a state endangered species. Due to the mobility of this species, the 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 U.S. Fish & Wildlife Service.

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

The local floodplain administrator should be contacted concerning the possible need for any floodplain permits or approvals for this project. Your local floodplain administrator contact information can be found at the website below.

http://water.ohiodnr.gov/portals/soilwater/pdf/floodplain/Floodplain%20Manager%20Community%20Contact%20List_8_16.pdf

ODNR appreciates the opportunity to provide these comments. Please contact John Kessler at (614) 265-6621 if you have questions about these comments or need additional information.

John Kessler
ODNR Office of Real Estate
2045 Morse Road, Building E-2
Columbus, Ohio 43229-6693
John.Kessler@dnr.state.oh.us

EXHIBIT 8

Beutler, William R

From: susan_zimmermann@fws.gov on behalf of Ohio, FW3 <ohio@fws.gov>
Sent: Monday, April 17, 2017 2:40 PM
To: Beutler, William R
Cc: nathan.reardon@dnr.state.oh.us; kate.parsons@dnr.state.oh.us
Subject: *EXTERNAL* ATSI - Inland-Harding 345 kV Line Structure Addition, Cuyahoga 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-1112

Dear Mr. Beutler,

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. The following comments and recommendations will assist you in fulfilling the requirements for consultation under section 7 of the Endangered Species Act of 1973, as amended (ESA).

The U.S. Fish and Wildlife Service (Service) recommends that proposed developments avoid and minimize water quality impacts and impacts to high quality fish and wildlife habitat (e.g., forests, streams, wetlands). Additionally, natural buffers around streams and wetlands should be preserved to enhance beneficial functions. If streams or wetlands will be impacted, the 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. All disturbed areas should be mulched and revegetated with native plant species. Prevention of non-native, invasive plant establishment is critical in maintaining high quality habitats.

FEDERALLY LISTED SPECIES COMMENTS: All projects in the State of Ohio lie within the range of the federally endangered **Indiana bat** (*Myotis sodalis*) and the federally threatened **northern long-eared bat** (*Myotis septentrionalis*). In Ohio, presence of the Indiana bat and northern long-eared bat is assumed wherever suitable habitat occurs unless a presence/absence survey has been performed to document absence. Suitable summer habitat for Indiana bats and northern long-eared bats consists of a wide variety of forested/wooded habitats where they roost, forage, and travel and may also include some adjacent and interspersed non-forested habitats such as emergent wetlands and adjacent edges of agricultural fields, old fields and pastures. This includes forests and woodlots containing potential roosts (i.e., live trees and/or snags ≥3 inches diameter at breast height (dbh) that have any exfoliating bark, cracks, crevices, hollows and/or cavities), as well as linear features such as fencerows, riparian forests, and other wooded corridors. These wooded areas may be dense or loose aggregates of trees with variable amounts of canopy closure. Individual trees may be considered suitable habitat when they exhibit the characteristics of a potential roost tree and are located within 1,000 feet (305 meters) of other forested/wooded habitat. Northern long-eared bats have also been observed roosting in human-made structures, such as buildings, barns, bridges, and bat houses; therefore, these structures should also be considered potential summer habitat. In the winter, Indiana bats and northern long-eared bats hibernate in caves and abandoned mines.

Should the proposed site contain trees ≥3 inches dbh, we recommend that trees be saved wherever possible. If any caves or abandoned mines may be disturbed, further coordination with this office is requested to determine if fall or spring portal surveys are warranted. If no caves or abandoned mines are present and trees ≥3 inches dbh cannot be avoided, we recommend that

removal of any trees ≥3 inches dbh only occur between October 1 and March 31. Seasonal clearing is being recommended to avoid adverse effects to Indiana bats and northern long-eared bats. While incidental take of northern long-eared bats from most tree clearing is exempted by a 4(d) rule (see http://www.fws.gov/midwest/endangered/mammals/nleb/index.html), incidental take of Indiana bats is still prohibited without a project-specific exemption. Thus, seasonal clearing is recommended where Indiana bats are assumed present.

If implementation of this seasonal tree cutting recommendation is not possible, summer surveys may be conducted to document the presence or probable absence of Indiana bats within the project area during the summer. If a summer survey documents probable absence of Indiana bats, the 4(d) rule for the northern long-eared bat could be applied. Surveys must be conducted by an approved surveyor and be designed and conducted in coordination with the Endangered Species Coordinator for this office. Surveyors must have a valid federal permit. Please note that summer surveys may only be conducted between June 1 and August 15.

If there is a federal nexus for the project (e.g., federal funding provided, federal permits required to construct), 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 that 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.

Due to the project type, size, and location, we do not anticipate adverse effects to any other 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.

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 ESA, and are consistent with the intent of the National Environmental Policy Act of 1969 and the Service's Mitigation Policy. This letter provides technical assistance only and does not serve as a completed section 7 consultation document. We recommend that the project be coordinated with the Ohio Department of Natural Resources due to the potential for the project to affect state listed species and/or state lands. Contact John Kessler, Environmental Services Administrator, at (614) 265-6621 or at john.kessler@dnr.state.oh.us.

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,

Dan Everson

Field Office Supervisor

EXHIBIT 8

cc: Nathan Reardon, ODNR-DOW

Kate Parsons, ODNR-DOW

Inland-Harding (S-8) 345 kV Transmission Lines Structure Addition Project
Case Number 17-1571-EL-BNR

Date: July 28, 2017

Exhibit 9
Wetland and Waters Assessment

Date: July 6, 2017

TO: William R. Beutler – Engineer III
Energy Delivery Transmission and Substation Design

FROM: Auggie Ruggiero – Staff Scientist
Environmental Energy Delivery Support

SUBJECT:

Wetland and Waters Assessment
Inland-Harding S-8 345kV Transmission Line Structure Replacement Project

INTRODUCTION

On July 3, 2017, an area located east of East 81st Street in Cleveland, Ohio was investigated via remote sensing for the potential presence of wetland characteristics and/or evidence of other areas deemed "waters of the U.S." Areas that appear to exhibit wetland hydrology and a dominance of hydrophytic vegetation via remote imaging and are mapped with soils determined to be hydric by the Natural Resources Conservation Service (NRCS) were considered a potential wetland. Areas that display these three characteristics in the field are subject to regulations pursuant to Section 404 of the Clean Water Act or Ohio's isolated wetland laws. Other areas deemed "waters of the U.S." include streams or bodies of open water which may also be subject to Section 404 regulations.

METHODS

The background resources investigation included an interpretation of street level photography, the NRCS Web Soil Survey, the U.S. Fish and Wildlife Service's online National Wetland Inventory (NWI) wetland mapper, and aerial photography. These resources were reviewed by a qualified wetland professional to determine the probability of wetland characteristics within the project area.

The project area was also screened via remote sensing for the presence of areas that meet the criteria for "other waters of the U.S." These areas consist of ephemeral, intermittent, and

perennial streams, as well as open water habitats such as ponds. Resources included available topographic mapping published by the U.S. Geologic Survey (USGS) and an interpretation of aerial photography.

INVESTIGATION/RESULTS

The Project Area is located along a residentially developed road. Vegetation within the vicinity of the Project Area appears to consist entirely of mowed herbaceous vegetation based on an interpretation of street level photography. According to the NWI map, no wetlands are mapped within the Project Area. According to the NRCS web soil survey, Loudonville-Urban land complex, rolling (LuC) is the only mapped soil within the Project Area. LuC is considered a non-hydric soil by the NRCS. The USGS topographic map and available aerial photography do not illustrate the presence of any streams or wetland areas within the Project Area. In conclusion, the potential for the presence of any areas subject to regulations pursuant to Section 404 of the Clean Water Act or Ohio isolated wetland laws within the Project Area is very low to none.

REFERENCES

U.S. Army Corps of Engineers. 2011. *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (Version 2.0)*, ed. J. S. Wakeley, R. W. Lichvar, C. V. Noble, and J. F. Berkowitz. ERDC/EL TR-12-1. Vicksburg, MS: U.S. Army Engineer Research and Development Center.

U.S. Department of Agriculture. (2013). Web Soil Survey 3.0. Retrieved from U.S. Department of Agriculture, Natural Resources Conservation Service: http://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx

U.S. Fish and Wildlife Service. (2016). National Wetlands Inventory Online Mapper v 2.0. Retrieved from U.S. Department of the Interior, U.S. Fish and Wildlife Service: https://www.fws.gov/wetlands/data/mapper.HTML

U.S. Geological Service. (1994). Topographical Quadrangle Maps (7.5-minute series). U.S. Geological Survey.

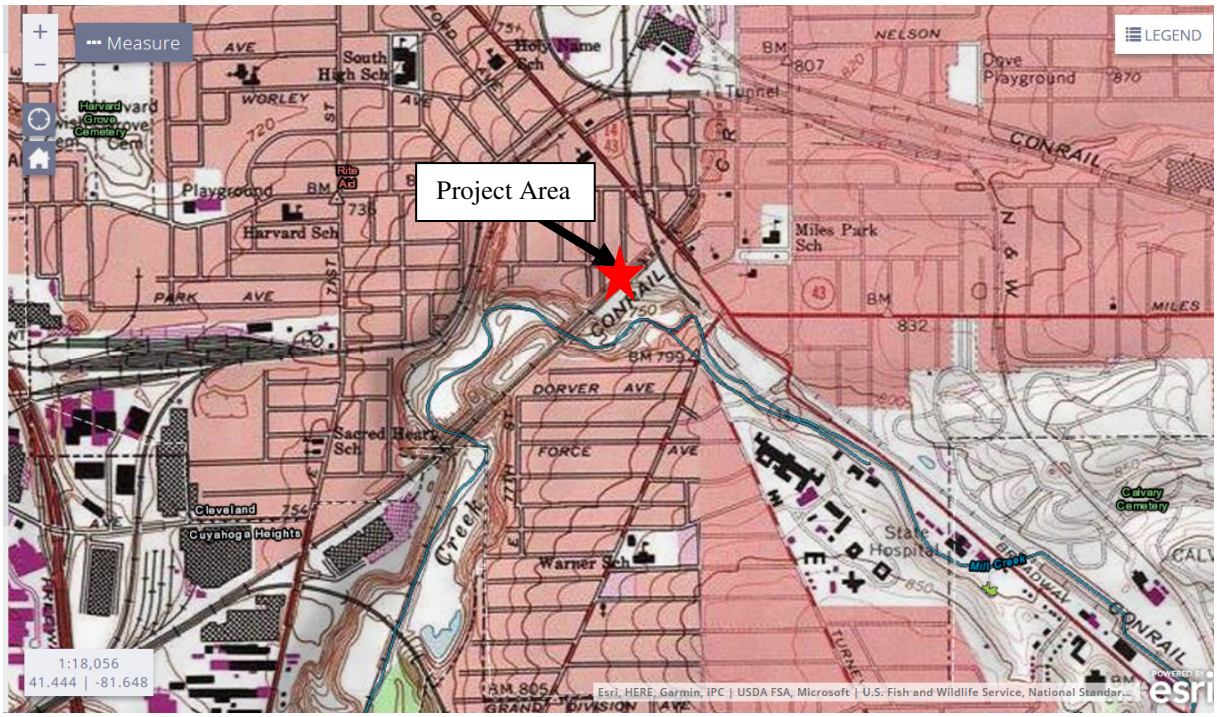

Figure 1-USGS Topographic map and NWI of the Project Area vicinity.

Figure 2-NRCS Soil Survey and aerial photograph of the Project Area vicinity.

Photo 1-Street level photography showing approximate location of Project Area.