

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

LETTER OF NOTIFICATION

BROADVIEW SUBSTATION EXPANSION PROJECT

OPSB CASE NO.: 16-1981-EL-BLN

January 12, 2017

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

**LETTER OF NOTIFICATION
BROADVIEW SUBSTATION EXPANSION PROJECT**

The following information is being provided in accordance with the requirements in the Ohio Administrative Code (OAC) Chapter 4906-6 for the 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 Letter of Notification application.

4906-6-05: ACCELERATED APPLICATION REQUIREMENTS

4906-6-05: Name and Reference Number

Name of Project: Broadview Substation Expansion Project (“Project”)

2015 LTFR Reference: This Project is identified in the FirstEnergy Corp. 2015 Long Term Forecast Report submitted to the Public Utility Commission of Ohio (“PUCO”) in Case Number 15-0649-EL-FOR and can be found on page 150.

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

American Transmission Systems, Incorporated (ATSI), a FirstEnergy company, proposes to expand the existing Broadview Substation by an additional 1.1 acres (150 feet by 305 feet) to facilitate the installation of new equipment in the substation. Temporary construction impacts will total approximately 4.6 acres. The existing and the expanded Broadview Substation will be owned and operated by ATSI. The Project involves the expansion and conversion of the existing Broadview Substation into a 138 kV substation with 69 kV transformation, and the interconnection of the expanded Broadview Substation to both the East Springfield-Tangy and Clark-Urbana 138kV Transmission Lines. The Broadview Substation is located at 1490 Willow Road, Springfield, Ohio in Clark County.

The general location of the proposed Project is shown in Exhibits 1 and 2. Exhibit 1 is a partial copy of the United States Geologic Survey, Clark County, Ohio, Quad Maps ID number 40083-A7. Exhibit 2 provides a partial copy of aerial

imagery, Digital Orthophoto Quarter Quads (“DOQQ”). The general layout of the proposed Project, along with the construction footprint, are shown in Exhibit 3.

The Broadview Substation Expansion Project is a component of the Springfield Area 138 kV Reinforcement Project which is comprised of three separate components requiring Board approval. The second and third components are the proposed East Springfield-Tangy 138 kV Loop to Broadview Substation Project, Case No. 16-1982-BTX, and Clark-Urbana 138 kV Loop to Broadview Substation, Case No. 16-2282-EL-BLN.

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

The Project falls within Item (4) (b) of the Application Requirement Matrix for Electric Power Transmission Lines, in Appendix A of 4906-1-01. This section states that an applicant may use the Letter of Notification (“LON”) process if the Project is:

- (1) *Constructing additions to existing electric power transmission stations or converting distribution stations to transmission stations where:*
 - (c) *There is a greater than twenty percent expansion of the fenced area.*

This Project meets this requirement because the expansion of the existing Broadview Substation will exceed twenty percent.

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

This Project will reduce load loss under contingency conditions, improve voltage stability, allow for future load growth, and help ensure safe and reliable service in the area served by the Broadview Substation. The proposed Project will expand the existing Broadview 69 kV substation into a 138/69 kV substation. The Project will add six new 138kV breakers, two new 138/69 kV transformers along with two new 69 kV line exits from the substation, all of which will improve service reliability and overall performance of the electric transmission and sub-transmission systems in the Project area.

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 2015 Long Term Forecast Report. This map was submitted to the PUCO in Case No. 15-0649-EL-FOR under OAC Rule 4901:5-5:04 (C). This map is incorporated by reference only. This map shows ATSI's 345 kV and 138 kV transmission lines and transmission substations including the East Springfield-Tangy 138 kV Transmission Line and the Broadview Substation. The Project area is located approximately 3 1/2 inches (11" X 17" printed version) from the left edge of the map and 1 1/2 inches (11" X 17" printed version) from the bottom of the map. The general location of the Project is shown in Exhibits 1 and 2. The Project layout is shown in Exhibit 3.

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

There are no practical alternatives that allow for the upgrading of the Broadview Substation and adding the required new equipment other than the proposed Project. All other alternatives require the construction of a new substation, which would greatly increase impacts.

The proposed Project location is best suited for the proposed facility because construction will occur entirely on Ohio Edison-owned property. The expansion of the current fence line will also be on Ohio Edison-owned property. No wetlands or streams impacts are expected.

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

ATSI will issue a public notice in a newspaper of general circulation in the Project area within 7 days of filing this LON application. The notice will comply with OAC Rules 4906-6-08(A) (1) through (6). In addition to the public notice, ATSI will mail letters explaining the Project to affected landowners and tenants within and contiguous to the planned expansion area.

ATSI has also established a project website:

https://www.firstenergycorp.com/about/transmission_projects/ohio/springfield-area-project.html

Finally, during any phase of this Project, the public may ask questions or leave comments on the FirstEnergy transmission projects hotline at 1-800-589-2873 or via email at:

transmissionprojects@firstenergycorp.com

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

Construction for the substation expansion is anticipated to begin on March 15, 2018. The proposed in-service date for the Project is November 15, 2018.

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

Exhibit 1 and 2 depict the general location of the Project. Exhibit 1 provides a partial copy of the United States Geologic Survey, Clark County, Ohio, quadrangle map (Quad Order ID number 40083-A7). Exhibit 2 provides a partial copy of aerial imagery, DOQQ.

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

Ohio Edison, a FirstEnergy company, owns the Broadview Substation and the land surrounding the substation, including the land required for the expansion. No additional property easements, options, or land use agreements will be necessary to construct the Project or operate the expanded substation.

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

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

The equipment and facilities described below will be located within the expanded fenced area of the proposed Project once construction is complete.

Materials:

138/69 kV Transformers – (2)

138 kV Circuit Breakers – (9)
69 kV Circuit Breakers – (3)
Relay Panels – (10)
138 kV Switches – (20)
138 kV Capacitive Voltage Transformer (CCVT) – (18)
69 kV Switches – (3)
138 kV Wave Traps – (4)
69 kV Station Service Voltage Transformer (SSVT) – (1)

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

As this is a substation expansion Project and no part of the expanded substation is within 100 feet of an occupied residence or institution, Electric and Magnetic Field (“EMF”) calculations have not been made.

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

The estimated capital cost for Project is approximately \$14,500,000.

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

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

Land use surrounding the Project is primarily agricultural, with the existing substation identified as industrial land use, and residential areas located approximately 400 feet east and south of the existing substation. Land within the proposed construction footprint consists of open land/pasture (0.9 acre), industrial (0.5 acre) and agricultural land (3.2 acres). The Project is located 400 feet north of Northridge and is located approximately 2 miles northeast of the town of Springfield. The Project is located entirely within Moorefield Township in Clark County, Ohio.

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

The Project will temporarily impact 3.2 acres of agricultural land during construction, with 0.5 acres being converted permanently. During the field surveys, the agricultural land was being utilized for soybean production. A records search for agricultural district land was requested from Clark County on November 8, 2016 which identified no agricultural districts. Therefore, no agricultural district land will be impacted by the Project.

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

As part of ATSI's assessment of the Project, a search utilizing data files from the Ohio Historic Preservation Office (OHPO) online mapping system was conducted in November 2016. This search did not identify the existence of any previously identified cultural resources or cultural resources surveys within the Project area. The OHPO online mapping database included a review of the Ohio Archaeological Inventory (OAI), the Ohio Historic Inventory (OHI), Determination of Eligibility (DOE) files, the National Register of Historic Places (NRHP), historic cemeteries, historic bridges, National Historic Landmarks (NHLs), and previous cultural resources surveys. Based on this review, the Project will not impact any known cultural resources.

ATSI's consultant conducted a background records check and literature review for the Project and submitted the results to the OHPO in December 2016. A Phase I Cultural Resources Survey for the areas of disturbance associated with the Project and the associated transmission line Projects will be conducted and compiled into a single cultural resources report, which will be submitted to the OHPO for comment.

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

The Project will require the development of a Storm Water Pollution Prevention Plan because planned earthwork will include the disturbance of more than 1 acre.

This plan will be developed in accordance with the Ohio Environmental

Protection Agency (OEPA) National Pollution Discharge Elimination System (NPDES) General Permit OCH000004 – Stormwater Discharges Associated with Construction Activity (General Permit). Submittal of a Notice of Intent (NOI) to the OEPA is required for coverage under the General Permit. Consultation with appropriate county officials will be conducted during the development of the SWPPP to ensure compliance with any county regulations.

No delineated wetlands or streams will be impacted by construction activities, therefore, the Project will not require a Clean Water Action (CWA) Section 404 Permit from the U.S. Army Corps of Engineers or a CWA Section 401 Water Quality Certification from the OEPA. There are no additional known local, state, or federal requirements that must be met prior to commencement of construction on the Project.

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

A written request was submitted to the Ohio Department of Natural Resources (ODNR) for information related to the presence of rare, threatened, or endangered (RTE) species within the Project area. ODNR responded to this request on March 8, 2016 indicating that there are records of RTE species located within 1 mile of the Project area. Based on the limited nature of the substation expansion work, no impacts to the identified RTE species, if present, are expected.

An ecological field study was also conducted in support of this Project in September 2016. Additional detailed information will be submitted to the United States Fish and Wildlife Service (USFWS) regarding the presence of RTE species and/or their critical habitat within the Project area. The consultation request was submitted to the USFWS in December 2016. The USFWS identified the following species as having been observed in Clark County: Indiana bat (*Myotis sodalis*, endangered), northern long eared bat (*Myotis septentrionalis*, threatened), eastern massasauga (*Sistrurus catenatus*, threatened), rayed bean (*Villosa fabalis*, endangered), and eastern prairie fringed orchid (*Platanthera leucophaea*,

threatened). If the USFWS identifies any federally-listed species concerns, ATSI will coordinate with USFWS to avoid or minimize construction impacts to the species and associated habitat to the extent possible. Because no tree clearing will be required for Project construction and no streams or wetlands are impacted by the Project, impacts to these species are not anticipated

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

A wetland and waterbody survey within the Project area was completed on September 13, 2016. No wetlands or streams were identified during the ecological field survey.

A data request was submitted to ODNR Ohio Natural Heritage Program and a response was received on March 8, 2016. The data received from ODNR showed no occurrence of rare or endangered plants or animals, geologic features, high quality plant communities, animal assemblages, or any state, federal, or county managed lands within 1 mile of the Project area. Consultation with USFWS regarding federally-listed species will be conducted in early 2017. The USFWS has identified the Indiana bat, northern long eared bat, eastern massasauga, rayed bean, and eastern prairie fringed orchid as having been observed in Clark County. However, because no tree clearing will be required and no streams or wetlands are impacted by the Project, impacts to these species are not anticipated.

The Federal Emergency Management Agency (FEMA), Flood Insurance Rate Map (FIRM), was reviewed to identify any floodplain or flood hazard areas within the Project. The Project is not located within any floodplain or flood hazard areas mapped by the FEMA FIRM (Panel 39023C, Effective Date February 17, 2010).

No national or state forests and parks, designated or proposed wilderness areas, national and state wild and scenic rivers, wildlife areas, wildlife refuges, wildlife management areas, or wildlife sanctuaries were identified within the potential disturbance area of the Project.

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 Letter of Notification Application Transmittal and Availability for Public Review

This Letter of Notification is being provided concurrently to the following officials of Moorefield Township and Clark County, Ohio.

Moorefield Township

Mr. Jack McKee
Trustee, Moorefield Township
1170 Montego Drive
Springfield, OH 45503

Mr. Joseph Mosier
Trustee, Moorefield Township
3223 Tamarack Avenue
Springfield, OH 45502

Mr. Daren Cotter
Trustee, Moorefield Township
4619 McCord Street
Springfield, OH 45503

Ms. Janet Dyer
Fiscal Officer,
Moorefield Township
1649 Merrydale Road
Springfield, OH 45503

Clark County

Ms. Melanie Flax Wilt
Clark County Commissioner
Clark County Administration
50 East Columbia Street
Springfield, OH 45501

Mr. Richard Lohnes
Clark County Commissioner
Clark County Administration
50 East Columbia Street
Springfield, OH 45501

Mr. Lowell R. McGlothlin
Clark County Commissioner
Clark County Administration
50 East Columbia Street
Springfield, OH 45501

Ms. Jennifer Hutchinson,
Clark County Administrator
Board of Clark County
Commissioners
50 East Columbia Street
Springfield, OH 45501

Ms. Jo Anderson, Chairperson
Clark County Planning
Commission
50 East Columbia Street
Springfield, OH 45501

Mr. Johnathan A. Burr, P.E., P.S.
Clark County Engineer
4075 Laybourne Road
Springfield, OH 45505

Libraries

Ms. Sally Rizer, Director
Clark County Public Library
201 South Fountain Avenue
Springfield, OH 45506

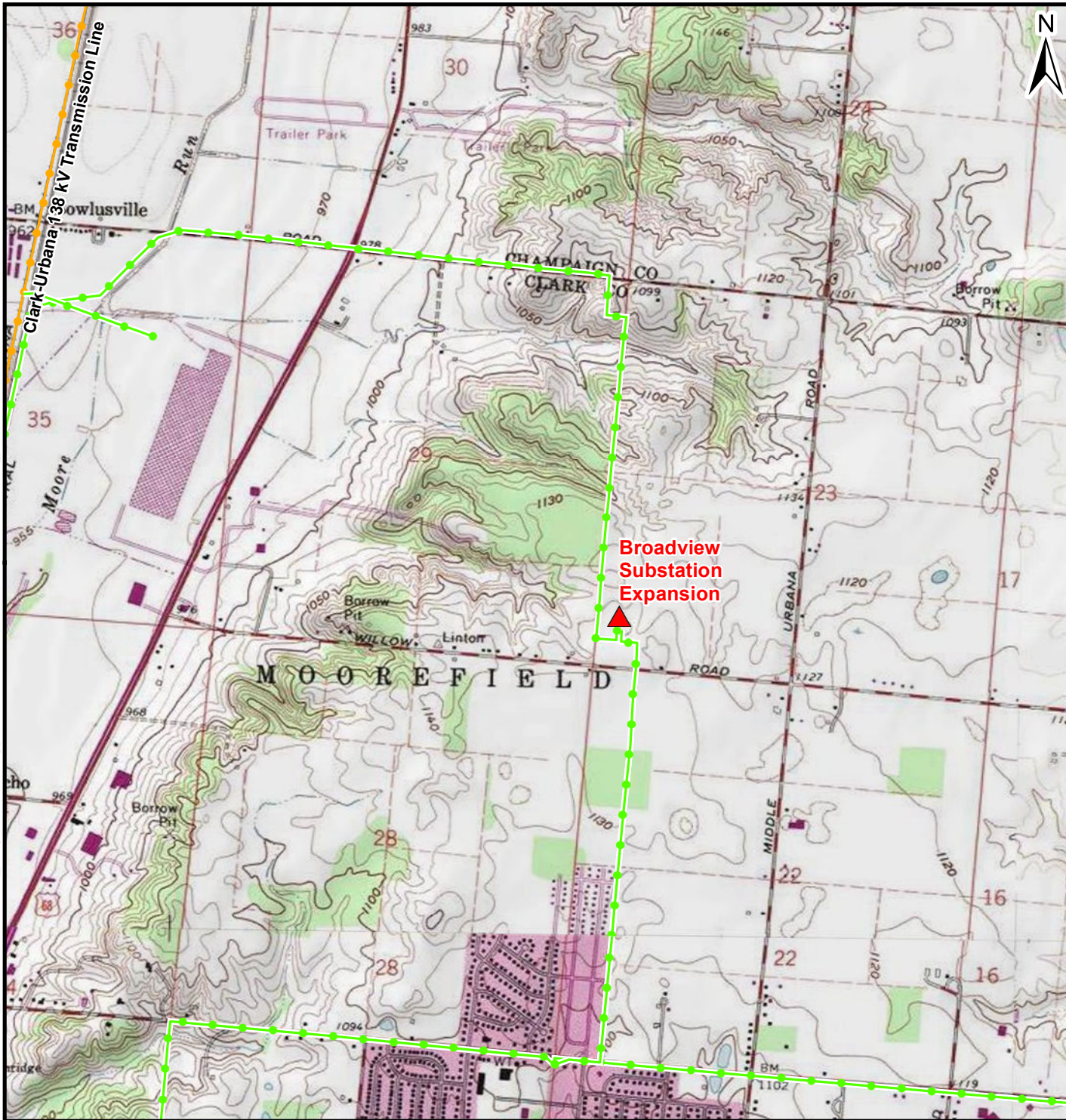
Ms. Sally Rizer, Director
Clark County Public Library
Park Branch
1119 North Bechtle Avenue,
Springfield, OH 45504

Copies of the transmittal letters to these officials have been included with the transmittal letter submitting this Letter of Notification application to the Ohio Power Sitting Board, and are being provided to meet the requirement of OAC Rule 4906-6-07 (B) to submit proof of compliance with the notice requirement to local officials found in OAC Rule 4906-6-07 (A)(1).

Information concerning this LON application is also posted at the link below and describes how to request an electronic or paper copy of this Letter of Notification. The link to the website is being provided to meet the requirement of OAC 4906-6-07 Rule (B) and to provide the Board with proof of compliance with the notice requirements in OAC 4906-6-Rule 07 (A)(3).

https://www.firstenergycorp.com/about/transmission_projects/ohio/springfield-area-project.html




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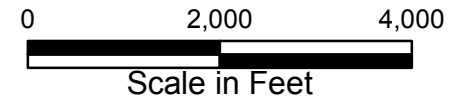
LOCATOR MAP



LEGEND:

-  Substation
-  Existing 69 kV Distribution Line
-  Existing 138 kV Transmission Line

BASE MAP SOURCE:
USGS 7.5-MINUTE
TOPOGRAPHIC QUADRANGLE
URBANA WEST, SPRINGFIELD



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

Broadview Substation
Expansion Project

**EXHIBIT 1
OVERVIEW MAP**

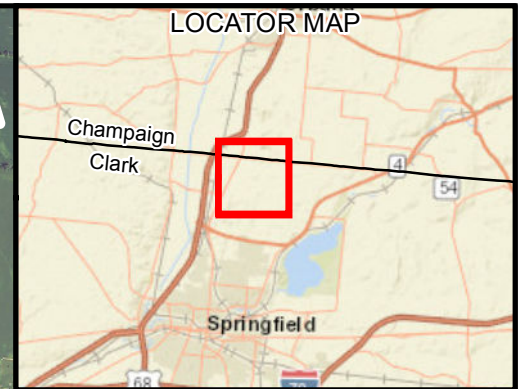
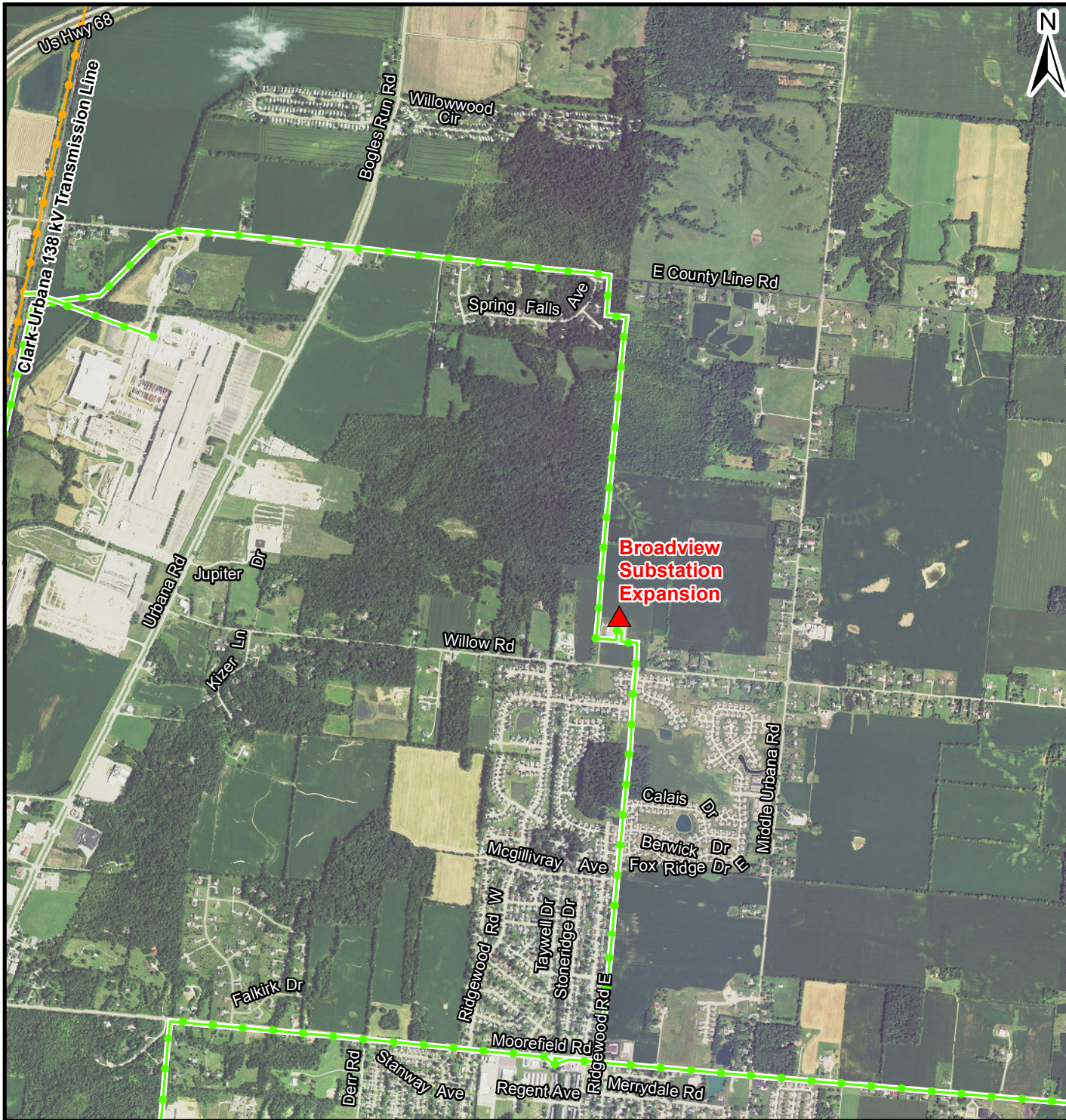
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DATE: 12/15/2016




CREATED BY: CL

REVIEWED BY: AC

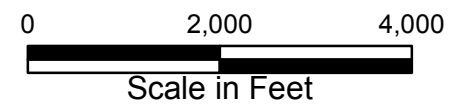




LEGEND:


-  Substation
-  Existing 69 kV Distribution Line
-  Existing 138 kV Transmission Line

BASE MAP SOURCE:
NATIONAL AGRICULTURAL
IMAGERY PROGRAM, 2015



 <small>American Transmission Systems, Inc. a subsidiary of FirstEnergy Corp.</small>	Broadview Substation Expansion Project
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EXHIBIT 2
AERIAL MAP

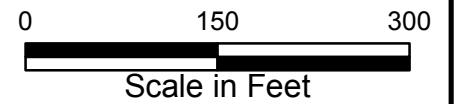
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REVIEWED BY: AC	



LEGEND:

- ▲ Substation
- ⊠ Proposed Expansion
- ▭ Existing Fenceline
- ⋯ Limits of Disturbance
- Existing 69 kV Distribution Line Pole
- Existing 69 kV Distribution Line

BASE MAP SOURCE:
NATIONAL AGRICULTURAL
IMAGERY PROGRAM, 2015



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*Broadview Substation
Expansion Project*

**EXHIBIT 3
SUBSTATION LAYOUT**

PN: 671092

DATE: 12/15/2016

CREATED BY: CL

REVIEWED BY: AC



Willow Rd