



76 South Main Street  
Akron, Ohio 44308

1-800-646-0400

May 30, 2018

Ms. Barcy F. McNeal  
Docketing Division  
The Public Utilities Commission of Ohio  
180 East Broad Street  
Columbus, OH 43215-3793

**Construction Notice**  
**North Medina-West Medina 138 kV Transmission Line**  
**Structure Replacement Project**  
**Case No. 18-0879-EL-BNR**

RECEIVED-DOCKETING DIV  
2018 MAY 31 AM 11:40  
PUCO

Dear Ms. McNeal:

In accordance with Ohio Administrative Code ("OAC") Rule 4906-2-04(A)(3) and OAC Chapter 4906-6, American Transmission Systems, Incorporated ("ATSI"), a FirstEnergy company, transmits one (1) original and eleven (11) copies of the enclosed Construction Notice application. The Construction Notice application was completed in accordance with the requirements of OAC Chapter 4906-6.

In this Project, ATSI is proposing to replace three existing wood pole structures with three wood laminate structures to support optical ground wire installation. The Project will be located in Medina Township, Medina County, Ohio.

Pursuant to OAC Rule 4906-2-04(A)(3), please be advised of the following:

a) Name and address of the applicants:

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

b) Name and location of proposed facilities:

North Medina-West Medina 138 kV Transmission Line Structure Replacement Project.

The Project area is located in Medina Township, Medina County, Ohio.

This is to certify that the images appearing are an accurate and complete reproduction of a case file document delivered in the regular course of business.  
Technician KN Date Processed MAY 31 2018

c) Applicant's representative:

William R. Beutler P.E.  
Engineer III  
Energy Delivery Transmission and Substation Design  
FirstEnergy Service Company  
76 South Main Street  
Akron, OH 44308-1890

d) No information that was provided in the pre-application letter required by OAC Rule 4906-6-03 has been amended or changed in the attached Letter of Notification application.

e) A notarized statement that the information contained in the application is complete and accurate is attached as Attachment 1.

We have provided a copy of the Construction Notice by certified mail, with return receipt requested, to each official of the political subdivisions immediately affected by the proposed Project listed in Exhibit 1. Copies of the transmittal letters addressed to the local government representatives of Medina Township, Medina County, Ohio are enclosed for your file. Copies of the transmittal letters to the local libraries are also enclosed. These materials are being provided as proof of compliance with OAC Rule 4906-6-07.

After docketing this filing, please return one time-stamped copy of the Letter of Notification for our records in the enclosed envelope. Should staff of the Ohio Power Siting Board desire further information or discussion of this submittal, please contact me at (330) 384-2740.

Sincerely,



William R. Beutler P.E.  
Engineer III  
Energy Delivery Transmission and Substation Design  
FirstEnergy Service Company

Attachments

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**North Medina 138 kV Transmission Lines Structure Replacement Project  
Case Number 18-0879-EL-BNR**

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**Date: May 30, 2018**

**Attachment 1  
Affidavit of William R. Beutler**

In The Matter Of: )  
The Application of American Transmission )  
Systems, Incorporated for a Certificate of )  
Environmental Compatibility and Public )  
Need for the Construction for the North )  
Medina-West Medina 138 kV )  
Transmission Line Structure Replacement )  
Project )

Pursuant to Ohio Administrative Code Rule 4906-2-04(A)(3)(e), I am the authorized representative of the Applicant in this case and I affirm that the Construction Notice application filed in this matter is true and accurate to the best of my information and belief.

William R. Beutler  
FirstEnergy Service Company

State of Ohio                    )  
  )                    ss:  
County of Summit            )

Sworn and subscribed before me this 30 day of May, 2018.

Kenn. H. H. H.

Notary Public



**KATHLEEN M. HOFACRE**  
NOTARY PUBLIC  
STATE OF OHIO  
Recorded in  
Stark County  
My Comm. Exp. 3/28/2020



**Exhibit 1**  
**Officials Served Copy of Construction Notice**  
**North Medina-West Medina 138 kV Transmission Line**  
**Structure Replacement Project**  
**Case No. 18-0879-EL-BNR**

**Medina County**

Commissioner Adam Friedrich  
Medina County Commissioners  
144 North Broadway St., Rm. 201  
Medina, OH 44256

Mr. Andy Conrad, P.E., P.S.  
Medina County Engineer  
791 West Smith Rd.  
Medina, OH 44256

Commissioner Patricia G. Geissman  
Medina County Commissioners  
144 North Broadway St., Rm. 201  
Medina, OH 44256

Mr. Rob Henwood, Director  
Planning Service Department  
124 West Washington St., Suite B4  
Medina, OH 44256

Commissioner William Hutson  
Medina County Commissioners  
144 North Broadway St., Rm. 201  
Medina, OH 44256

Mr. Jeff Van Loon, Director  
Soil & Water Conservation District  
6090 Wedgewood Rd.  
Medina, OH 44256

Mr. Scott Miller,  
Medina County Administrator  
144 North Broadway Street  
Medina, OH 44256

**Medina Township**

Mr. Ken DeMichael  
Medina Township Trustee  
3799 Huffman Rd.  
Medina, OH 44256

Mr. Mike Stopa  
Medina Township Trustee  
3799 Huffman Rd.  
Medina, OH 44256

Mr. Mark Radice  
Medina Township Trustee  
3799 Huffman Rd.  
Medina, OH 44256

Ms. Angela Ventura  
Medina Fiscal Officer  
3799 Huffman Rd.  
Medina, OH 44256

**Library**

Ms. Carole Kowell, Director  
Medina County District Library  
210 S Broadway St.  
Medina, OH 44256

May 30, 2018

Commissioner Adam Friedrich  
Medina County Commissioners  
144 North Broadway St., Rm. 201  
Medina, OH 44256

**Construction Notice**  
**North Medina-West Medina 138 kV Transmission Line**  
**Structure Replacement Project**  
**Case No. 18-0879-EL-BNR**

Dear Commissioner Friedrich,

American Transmission Systems, Incorporated ("ATSI"), a FirstEnergy company, has recently filed an application with the Ohio Power Siting Board for approval to replace three existing wood pole structures with three wood laminate structures to support optical ground wire installation North Medina-West Medina 138 kV Transmission Line. The Project will be located in Medina Township, Medina County, Ohio.

In accordance with Ohio Administrative Code ("OAC") Rule 4906-1-01, this Project falls within the Ohio Power Siting Board's requirements for a Construction Notice application ("CN"). Therefore, in compliance with OAC Chapter 4906-6, we have prepared and filed the attached CN with the OPSB for their review and approval. The CN contains a description of the Project and is provided for your information.

I will be happy to answer your questions concerning this matter. You can contact me at (330) 384-2740.

Sincerely,



William R. Beutler P.E.

Engineer III

Energy Delivery Transmission & Substation Design  
FirstEnergy Service Company

Attachment

May 30, 2018

Commissioner Patricia G. Geissman  
Medina County Commissioners  
144 North Broadway St., Rm. 201  
Medina, OH 44256

**Construction Notice**  
**North Medina-West Medina 138 kV Transmission Line**  
**Structure Replacement Project**  
**Case No. 18-0879-EL-BNR**

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Sincerely,

*William R. Beutler*

William R. Beutler P.E.  
Engineer III  
Energy Delivery Transmission & Substation Design  
FirstEnergy Service Company

Attachment

May 30, 2018

Commissioner William Hutson  
Medina County Commissioners  
144 North Broadway St., Rm. 201  
Medina, OH 44256

**Construction Notice**  
**North Medina-West Medina 138 kV Transmission Line**  
**Structure Replacement Project**  
**Case No. 18-0879-EL-BNR**

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Sincerely,



William R. Beutler P.E.  
Engineer III  
Energy Delivery Transmission & Substation Design  
FirstEnergy Service Company

Attachment

May 30, 2018

Mr. Scott Miller,  
Medina County Administrator  
144 North Broadway Street  
Medina, OH 44256

**Construction Notice**  
**North Medina-West Medina 138 kV Transmission Line**  
**Structure Replacement Project**  
**Case No. 18-0879-EL-BNR**

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Sincerely,

*William R. Beutler*

William R. Beutler P.E.

Engineer III

Energy Delivery Transmission & Substation Design

FirstEnergy Service Company

Attachment

May 30, 2018

Mr. Andy Conrad, P.E., P.S.  
Medina County Engineer  
791 West Smith Rd.  
Medina, OH 44256

**Construction Notice**  
**North Medina-West Medina 138 kV Transmission Line**  
**Structure Replacement Project**  
**Case No. 18-0879-EL-BNR**

Dear Mr. Conrad,

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Sincerely,

*William R. Beutler*

William R. Beutler P.E.  
Engineer III  
Energy Delivery Transmission & Substation Design  
FirstEnergy Service Company

Attachment

May 30, 2018

Mr. Rob Henwood, Director  
Planning Service Department  
124 West Washington St., Suite B4  
Medina, OH 44256

**Construction Notice**  
**North Medina-West Medina 138 kV Transmission Line**  
**Structure Replacement Project**  
**Case No. 18-0879-EL-BNR**

Dear Mr. Henwood,

American Transmission Systems, Incorporated ("ATSI"), a FirstEnergy company, has recently filed an application with the Ohio Power Siting Board for approval to replace three existing wood pole structures with three wood laminate structures to support optical ground wire installation North Medina-West Medina 138 kV Transmission Line. The Project will be located in Medina Township, Medina County, Ohio.

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Sincerely,

*William R. Beutler*

William R. Beutler P.E.

Engineer III

Energy Delivery Transmission & Substation Design  
FirstEnergy Service Company

Attachment

May 30, 2018

Mr. Jeff Van Loon, Director  
Soil & Water Conservation District  
6090 Wedgewood Rd.  
Medina, OH 44256

**Construction Notice**  
**North Medina-West Medina 138 kV Transmission Line**  
**Structure Replacement Project**  
**Case No. 18-0879-EL-BNR**

Dear Mr. Van Loon,

American Transmission Systems, Incorporated ("ATSI"), a FirstEnergy company, has recently filed an application with the Ohio Power Siting Board for approval to replace three existing wood pole structures with three wood laminate structures to support optical ground wire installation North Medina-West Medina 138 kV Transmission Line. The Project will be located in Medina Township, Medina County, Ohio.

In accordance with Ohio Administrative Code ("OAC") Rule 4906-1-01, this Project falls within the Ohio Power Siting Board's requirements for a Construction Notice application ("CN"). Therefore, in compliance with OAC Chapter 4906-6, we have prepared and filed the attached CN with the OPSB for their review and approval. The CN contains a description of the Project and is provided for your information.

I will be happy to answer your questions concerning this matter. You can contact me at (330) 384-2740.

Sincerely,

*William R. Beutler*

William R. Beutler P.E.

Engineer III

Energy Delivery Transmission & Substation Design

FirstEnergy Service Company

Attachment



May 30, 2018

Mr. Ken DeMichael  
Medina Township Trustee  
3799 Huffman Rd.  
Medina, OH 44256

**Construction Notice**  
**North Medina-West Medina 138 kV Transmission Line**  
**Structure Replacement Project**  
**Case No. 18-0879-EL-BNR**

Dear Mr. DeMichael,

American Transmission Systems, Incorporated ("ATSI"), a FirstEnergy company, has recently filed an application with the Ohio Power Siting Board for approval to replace three existing wood pole structures with three wood laminate structures to support optical ground wire installation North Medina-West Medina 138 kV Transmission Line. The Project will be located in Medina Township, Medina County, Ohio.

In accordance with Ohio Administrative Code ("OAC") Rule 4906-1-01, this Project falls within the Ohio Power Siting Board's requirements for a Construction Notice application ("CN"). Therefore, in compliance with OAC Chapter 4906-6, we have prepared and filed the attached CN with the OPSB for their review and approval. The CN contains a description of the Project and is provided for your information.

I will be happy to answer your questions concerning this matter. You can contact me at (330) 384-2740.

Sincerely,

*William R. Beutler*

William R. Beutler P.E.

Engineer III

Energy Delivery Transmission & Substation Design  
FirstEnergy Service Company

Attachment

May 30, 2018

Mr. Mark Radice  
Medina Township Trustee  
3799 Huffman Rd.  
Medina, OH 44256

**Construction Notice**  
**North Medina-West Medina 138 kV Transmission Line**  
**Structure Replacement Project**  
**Case No. 18-0879-EL-BNR**

Dear Mr. Radice,

American Transmission Systems, Incorporated ("ATSI"), a FirstEnergy company, has recently filed an application with the Ohio Power Siting Board for approval to replace three existing wood pole structures with three wood laminate structures to support optical ground wire installation North Medina-West Medina 138 kV Transmission Line. The Project will be located in Medina Township, Medina County, Ohio.

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Sincerely,



William R. Beutler P.E.  
Engineer III  
Energy Delivery Transmission & Substation Design  
FirstEnergy Service Company

Attachment

May 30, 2018

Mr. Mike Stopa  
Medina Township Trustee  
3799 Huffman Rd.  
Medina, OH 44256

**Construction Notice**  
**North Medina-West Medina 138 kV Transmission Line**  
**Structure Replacement Project**  
**Case No. 18-0879-EL-BNR**

Dear Mr. Stopa,

American Transmission Systems, Incorporated ("ATSI"), a FirstEnergy company, has recently filed an application with the Ohio Power Siting Board for approval to replace three existing wood pole structures with three wood laminate structures to support optical ground wire installation North Medina-West Medina 138 kV Transmission Line. The Project will be located in Medina Township, Medina County, Ohio.

In accordance with Ohio Administrative Code ("OAC") Rule 4906-1-01, this Project falls within the Ohio Power Siting Board's requirements for a Construction Notice application ("CN"). Therefore, in compliance with OAC Chapter 4906-6, we have prepared and filed the attached CN with the OPSB for their review and approval. The CN contains a description of the Project and is provided for your information.

I will be happy to answer your questions concerning this matter. You can contact me at (330) 384-2740.

Sincerely,



William R. Beutler P.E.  
Engineer III  
Energy Delivery Transmission & Substation Design  
FirstEnergy Service Company

Attachment

May 30, 2018

Ms. Angela Ventura  
Medina Fiscal Officer  
3799 Huffman Rd.  
Medina, OH 44256

**Construction Notice**  
**North Medina-West Medina 138 kV Transmission Line**  
**Structure Replacement Project**  
**Case No. 18-0879-EL-BNR**

Dear Ms. Ventura,

American Transmission Systems, Incorporated ("ATSI"), a FirstEnergy company, has recently filed an application with the Ohio Power Siting Board for approval to replace three existing wood pole structures with three wood laminate structures to support optical ground wire installation North Medina-West Medina 138 kV Transmission Line. The Project will be located in Medina Township, Medina County, Ohio.

In accordance with Ohio Administrative Code ("OAC") Rule 4906-1-01, this Project falls within the Ohio Power Siting Board's requirements for a Construction Notice application ("CN"). Therefore, in compliance with OAC Chapter 4906-6, we have prepared and filed the attached CN with the OPSB for their review and approval. The CN contains a description of the Project and is provided for your information.

I will be happy to answer your questions concerning this matter. You can contact me at (330) 384-2740.

Sincerely,



William R. Beutler P.E.  
Engineer III  
Energy Delivery Transmission & Substation Design  
FirstEnergy Service Company

Attachment

May 30, 2018

Ms. Carole Kowell, Director  
Medina County District Library  
210 S Broadway St.  
Medina, OH 44256

**Construction Notice**  
**North Medina-West Medina 138 kV Transmission Line**  
**Structure Replacement Project**  
**Case No. 18-0879-EL-BNR**

Dear Ms. Kowell,

Enclosed please find one copy of the Construction Notice application ("CN") of American Transmission Systems, Incorporated ("ATSI"), a FirstEnergy company, for the North Medina-West Medina 138 kV Transmission Line Structure Replacement Project ("Project") that has been filed with the Ohio Power Siting Board ("OPSB"). Please make the CN available for public reference in the Medina County District Library. We are providing a copy of the CN for placement in your library in response to the requirements of the Ohio Administrative Code ("OAC") Rule 4906-6-07(A)(2), which requires us to place a copy of the CN in the main public libraries of the political subdivisions in which any portion of the project is to be located.

As described in the CN, the Project proposes to replace three existing wood pole structures with three wood laminate structures to support optical ground wire installation. The Project will be located in Medina Township, Medina County, Ohio.

Please feel free to call me with any questions you may have and thank you in advance for making the CN available to your patrons. My phone number is (330) 384-2740.

Sincerely,

*William R. Beutler*

William R. Beutler P.E.

Engineer III

Energy Delivery Transmission and  
Substation Design

FirstEnergy Service Company

Enclosure

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

**CONSTRUCTION NOTICE**

**NORTH MEDINA-WEST MEDINA 138 kV TRANSMISSION  
LINE STRUCTURE REPLACEMENT PROJECT**

**OPSB CASE NO.: 18-0879-EL-BNR**

**May 30, 2018**

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

RECEIVED  
2018 MAY 31 AM 11:48  
PUCO

**CONSTRUCTION NOTICE  
NORTH MEDINA-WEST MEDINA 138 kV TRANSMISSION LINE  
STRUCTURE REPLACEMENT 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**

Name of Project: North Medina-West Medina 138 kV Transmission Line  
Structure Replacement Project ("Project").

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

In this Project, American Transmission Systems, Incorporated ("ATSI"), a FirstEnergy company, is proposing to replace three (3) existing wood pole structures with three (3) wood laminate structures to support Optical Ground Wire ("OPGW") installation. The three structures being replaced are identified as Structures 9910, 9915, and 9916. The Project will be located in Medina Township, Medina County, Ohio.

The general location of the Project is shown in Exhibit 1, a partial copy of the United States Geologic Survey, Medina County OH, Quad Map, ID number 41081-B2. Exhibit 2 is a partial copy of aerial imagery. The Project is located along the side of Marks Road, with Structure 9910 located approximately 1,700 feet (0.32 miles) north of the intersection with W Regan Parkway and Structures 9915 & 9916 located between W Regan Parkway and Yellowstone Drive. The general layout is shown in Exhibit 3. The Project will be located in Medina Township, Medina County Ohio.

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

The Project meets the requirements for a Construction Notice, in accordance with 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 transmission line, or replacing structures with different type of structures, for a distance of:*

*(a) Two miles or less.*

The proposed Project is within the requirements of Item (2)(a) because the Project will replace the three (3) existing wood pole structures with three (3) wood laminate pole structures, covering a distance of less than two miles.

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

The Project is needed to accommodate the installation of OPGW along the North Medina-West Medina 138 kV Transmission Line. OPGW is being installed to replace outdated communication infrastructure to support system operations. Structures 9910, 9915, and 9916 do not have sufficient structural capacity to attach the OPGW, per NESC Grade C loading and strength requirements. Consequently, to attach the OPGW, the structures will need to be replaced.

**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. 2018 Long-Term Forecast Report. This map was submitted to the PUCO in Case No. 18-0449-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



North Medina-West Medina 138 kV Transmission Line. The project area is located approximately 8 1/3 inches (11" x 17" printed version) from the left edge of the map and 3 1/2 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**

Due to the limited nature of the Project, no alternatives were considered.

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

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

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

The construction schedule for this Project is expected to begin as early as October 1, 2018 and completed by November 30, 2018.

**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, Medina County OH, quadrangle map (Quad Order ID 41081-B2). Exhibit 2 provides a partial copy of aerial imagery of the project area.

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

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

**Table 1: Property Owner List**

Parcel Number	Property Owner	Property Address	Easement Status
026-06C-11-010	Tom Shade	4171 Marks Road, Medina OH, 44256	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:	138 kV
Conductors:	605 kcmil 24/7 ACSR
Static Wire:	OPGW
Insulators:	Polymer
ROW Width:	60 feet
Land Requirements:	N/A
Structure Types:	Exhibit 4: Single Circuit, Wood Laminate Pole, Tangent Structure. Three (3) structures are needed.

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

The closest occupied residence or institution is approximately 65 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 North Medina-West Medina 138 kV Transmission Line. 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**

<b>Line Name</b>	<b>Normal Loading Amps</b>	<b>Emergency Loading Amps</b>	<b>Winter Rating Amps</b>
North Medina-West Medina 138 kV	174	298.5	973

Table 3 provides an approximation of the magnetic and electric fields strengths of the North Medina-West Medina 138 kV Transmission Line and are calculated in a 60-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 2009 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 North Medina-West Medina 138 kV Transmission Line**

<b>North Medina-West Medina 138 kV Transmission Line, 60 foot ROW</b>		<b>Electric Field kV/m</b>	<b>Magnetic Field mG</b>
<b>Normal Loading</b>	Under Lowest Conductors	0.367	5.18
	At Right-of-Way Edges	0.202 / 0.278	3.8 / 4.19
<b>Emergency Loading</b>	Under Lowest Conductors	0.367	8.82
	At Right-of-Way Edges	0.202 / 0.278	6.73 / 6.85
<b>Winter Rating</b>	Under Lowest Conductors	0.367	32.54
	At Right-of-Way Edges	0.202 / 0.278	24.84 / 25.55

**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 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 the new construction portions of this Project, is to install 138 kV transmission lines primarily on wood tangent structures supported on horizontal post insulators – this is a compact design that reduces EMF field strengths in comparison to other installations. This design is essentially the same whether the structures are wood poles or wood laminate poles and consequently no significant change is expected to EMF field strengths as a result of the Project.

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

The estimated capital cost for the proposed project is approximately \$ 144,594.

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

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

The Project is located in Medina Township, Medina County Ohio. The main land use around the Project is a mixed-suburban use. The North Medina-West Medina 138 kV Transmission Line parallels an existing road.

**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 specific location of any archeological resources are excluded from the map and are instead listed in Table 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 listed NRHP site is shown in Table 4.

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. Five (5) OAI archeological resources were previously inventoried within 0.5 miles of the Project area and are listed in Table 5. Three (3) OHI structural resources are located within 0.5 miles of the Project area and are listed in Table 6. Two (2) previous cultural resource surveys were conducted within 0.5 miles of the Project area and are provided in Table 7. No OSG cemeteries are located within 0.5 miles of the Project area.

**Table 4. List of National Historic Registered Places**

<b>Resource Name</b>	<b>Address</b>	<b>County</b>	<b>Applicable Criteria</b>	<b>Function</b>
Gayer, Jacob, House	4508 Marks Rd, Medina OH	Medina	Architecture/ Engineering	Domestic

**Table 5. List of OAI Listed Archeological Resources**

<b>OAI Number</b>	<b>Affiliation</b>	<b>Description</b>	<b>County</b>	<b>Quad Name</b>
ME0172	Prehistoric	Late Archaic	Medina	Medina
ME0269	Prehistoric	Unknown Prehistoric	Medina	Mallet Creek
ME0270	Prehistoric	Unknown Prehistoric	Medina	Mallet Creek
ME0271	Prehistoric	Unknown Prehistoric	Medina	Mallet Creek
ME0272	Historic	Non-Aboriginal	Medina	Mallet Creek

**Table 6. List of OHI Listed Structural Resources**

<b>OHI Number</b>	<b>Present Name</b>	<b>Historic Use</b>	<b>County</b>	<b>Municipality</b>
MED0014205	Walter E Dietrich House	N/A	Medina	York Township
MED0043105	Ziegler Farm	N/A	Medina	York Township
MED0043606	Truden Farm	Single Dwelling	Medina	Monroe Township

**Table 7. List of Previous Cultural & Historic Resource Survey**

<b>Year</b>	<b>Name</b>	<b>County</b>	<b>Municipality</b>
1989	Reconnaissance Survey for the Proposed AT&T Medina-Whitehouse Fiber Optic Cable Through Medina, Lorain, Erie, Sandusky, Ottawa, Wood, and Lucas County, Ohio	Medina	York & Medina Township
1983	Cultural Resource Survey of a Proposed 0.6 Mile Natural Gas Pipeline Segment and Two Acre Compressor Station Sit in Medina County, Ohio	Medina	Medina City

The one (1) listed NRHP site is located approximately 290 feet (0.06 Miles) away from the Structure 9915. As this structure is being replaced with a structure of the same height and general appearance, there will be no alteration to the current view shed and no visual impacts are expected.

The closest OHI site is located approximately 0.10 miles from Structure 9910. As this structure is being replaced with a structure of the same height and general appearance, there will be no alteration to the current view shed and no visual impacts expected. The closest OAI site is located approximately 0.33 miles from Structure 9910. No known OAI sites are located within the proposed disturbance area. The proposed Project is located adjacent to an existing road in an area that was previously disturbed during road construction; therefore, no impacts to archeological resources are anticipated.

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

There are no government agency requirements at the time of filing.

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

The Project work limits associated with the structure replacements will be limited to the existing maintained transmission line corridor located along Marks Road. The construction site will be accessible via Marks Road. The Project area consists of either mowed grass or a row of trees and shrubs associated with a residential property. The threatened and endangered species listed for Medina County, Ohio<sup>1</sup> are included in Table 8.

---

<sup>1</sup> <http://wildlife.ohiodnr.gov/portals/wildlife/pdfs/species%20and%20habitats/state-listed%20species/medina.pdf>  
<http://wildlife.ohiodnr.gov/portals/wildlife/pdfs/species%20and%20habitats/state-listed%20species/medinap.pdf>  
<https://www.fws.gov/midwest/endangered/lists/ohio-spp.html>

**Table 8. List of Endangered, Threatened, and Rare Species.**

<b>Table 6: List of Endangered, Threatened, and Rare Species</b>				
<b>Common Name</b>	<b>Scientific Name</b>	<b>Federal Listed Status</b>	<b>State Listed Status</b>	<b>Affected Habitat</b>
Indiana Bat	<i>Myotis sodalis</i>	Endangered	Endangered	Trees & Forest
Northern Long-Ear Bat	<i>Myotis septentrionalis</i>	Threatened	Species of Concern	Trees & Forest
Eastern Spadefoot	<i>Scaphiopus holbrookii</i>	N/A	Endangered	Sandy Soils near Rivers
Regal Fritillary	<i>Speyeria Idalia</i>	N/A	Endangered	Prairie, Wet Meadows, & Marshes
Black Bear	<i>Ursus americanus</i>	N/A	Endangered	Heavily Wooded Areas
Long Beech Fern	<i>Phegopteris connectilis</i>	N/A	Potentially Threatened	Mostly in Acidic Soil or Rocks in Full Shade.
Thin-leaved Sedge	<i>Carex cephaloidea</i>	N/A	Potentially Threatened	Dry to Mesic Deciduous and Mixed Forests.
Bush's Sedge	<i>Carex bushii</i>	N/A	Threatened	Moist prairies, Fields, and Meadows in Full Sun.
Prairie False Indigo	<i>Baptisia lactea</i>	N/A	Potentially Threatened	Prairies, Barrens, Other Open Habitats.
American Sweet-flag	<i>Acorus americanus</i>	N/A	Potentially Threatened	Wet Meadows, Marshes, and Swales.

No prairies, forests, river valleys, or wetland areas are located within the Project area and the herbaceous vegetation within the Project area is routinely mowed. Therefore, adverse impacts to the Black bear, Regal fritillary, Eastern spadefoot, or any of the listed plant species are not anticipated to result from the Project due to the absence of potential habitat for these species within the Project area. Any tree clearing associated with the Project will occur after September 30 and before April 1 to avoid potential adverse effects to listed bat species.



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

ATSI hired TRC Environmental Corporation ("TRC") to conduct a wetland and stream assessment of the Project area. The TRC investigation focused on an approximately 20 foot radius around each existing structure in proposed Project that will be replaced. No jurisdictional areas were identified within the study area. A soil sample was taken at #9915 due to the presence of standing water near the structure. Hydric soils were not present and recent persistent rains and snowmelt were determined to be the cause of the standing water. No ditches are present along the road. A copy of TRC's results is included as Exhibit 6.

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 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 Medina Township, Medina County, Ohio.

### **Medina County**

Commissioner Adam Friedrich  
Medina County Commissioners  
144 North Broadway St., Rm. 201  
Medina, OH 44256

Commissioner Patricia G. Geissman  
Medina County Commissioners  
144 North Broadway St., Rm. 201  
Medina, OH 44256

Commissioner William Hutson  
Medina County Commissioners  
144 North Broadway St., Rm. 201  
Medina, OH 44256

Mr. Scott Miller,  
Medina County administrator  
144 North Broadway Street  
Medina, OH 44256

Mr. Andy Conrad, P.E., P.S.  
Medina County Engineer  
791 West Smith Rd.  
Medina, OH 44256

Mr. Rob Henwood, Director  
Planning Service Department  
124 West Washington St., Suite B4  
Medina, OH 44256

Mr. Jeff Van Loon, Director  
Soil & Water Conservation District  
6090 Wedgewood Rd.  
Medina, OH 44256

### **Medina Township**

Mr. Ken DeMichael  
Medina Township Trustee  
3799 Huffman Rd.  
Medina, OH 44256

Mr. Mike Stopa  
Medina Township Trustee  
3799 Huffman Rd.  
Medina, OH 44256

Mr. Mark Radice  
Medina Township Trustee  
3799 Huffman Rd.  
Medina, OH 44256

Ms. Angela Ventura  
Medina Fiscal Officer  
3799 Huffman Rd.  
Medina, OH 44256

### **Library**

Ms. Carole Kowell, Director  
Medina County District Library  
210 S Broadway St.  
Medina, OH 44256

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).





0 1,800 3,600 Feet  
1:24,000

# North Medina-West Medina 138 kV Transmission Line Structure Replacement Project

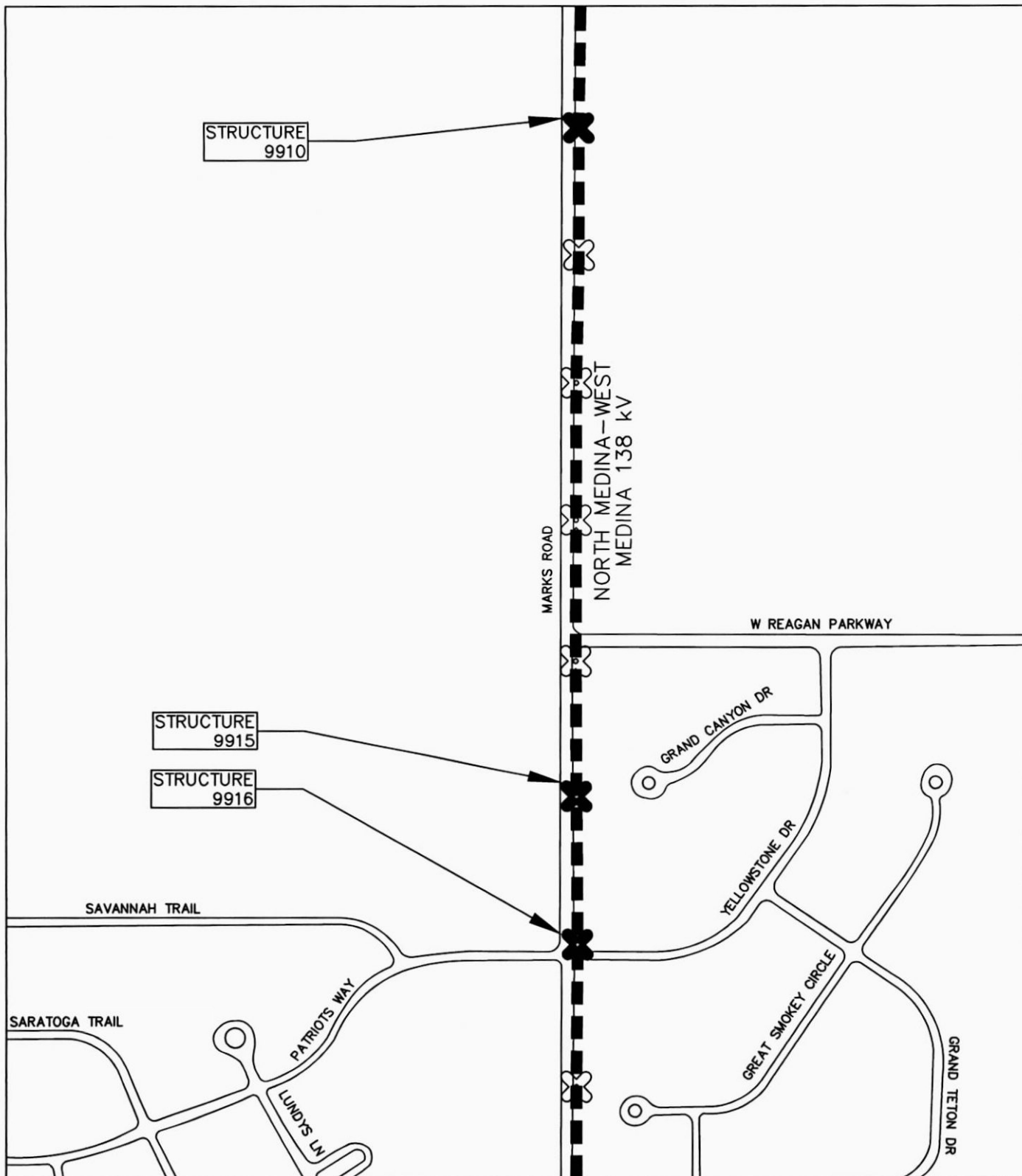
Exhibit 2



**FirstEnergy**

Created on 3/8/2018





## LEGEND

- — — — — EXISTING CONDUCTOR
- ⊗ EXISTING WOOD POLE STRUCTURE
- ✕ PROPOSED WOOD LAMINATE POLE STRUCTURE

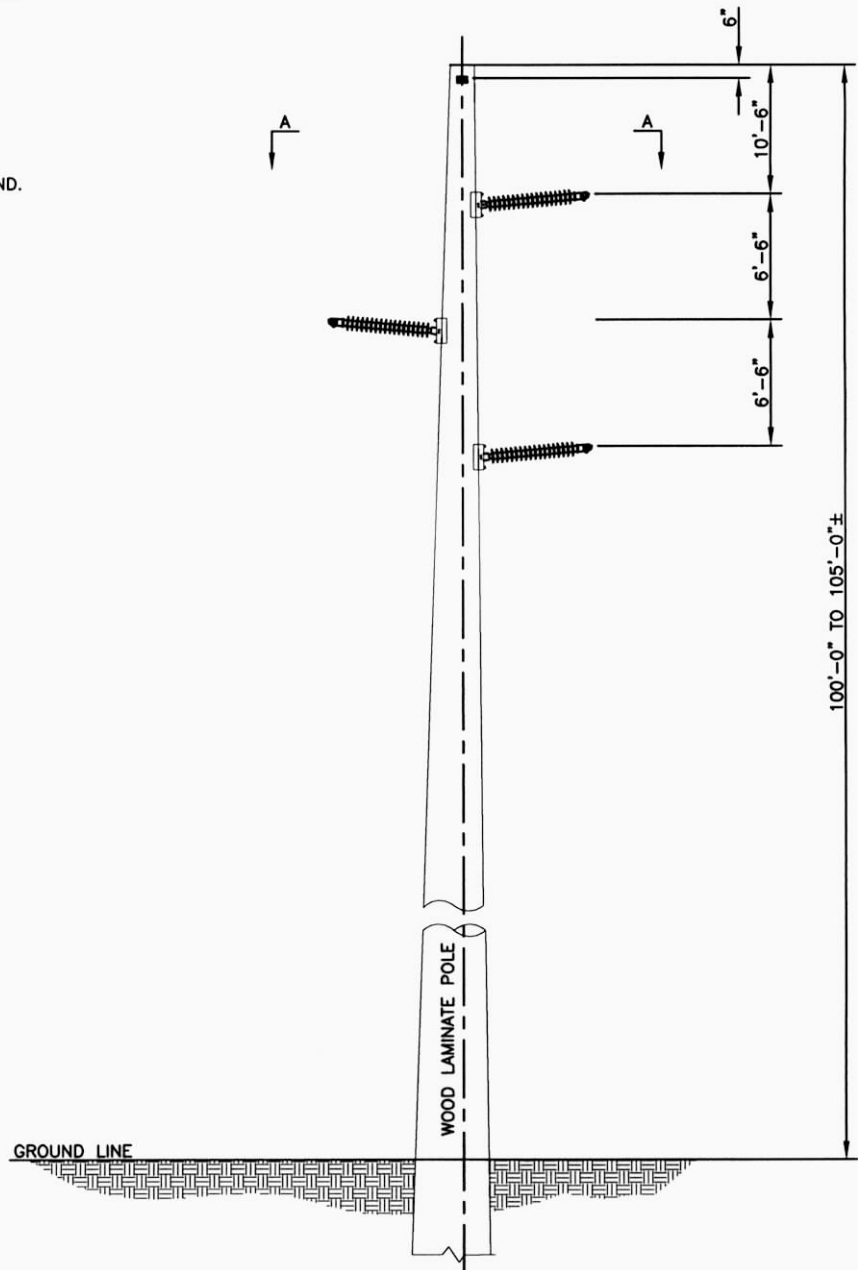
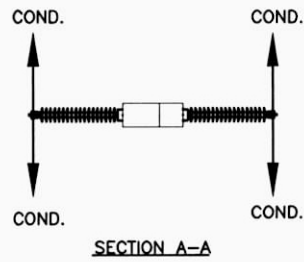
**ATSI**

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

NORTH MEDINA-WEST MEDINA  
138 kV STRUCTURE  
REPLACEMENT PROEJCT

GENERAL LAYOUT

EXHIBIT 3



**ATSI**®

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

NORTH MEDINA-WEST MEDINA  
138 kV TRANSMISSION LINE  
STRUCTURE RELOCATION PROJECT

SINGLE CIRCUIT, WOOD LAMINATE POLE,  
TANGENT STRUCTURE

EXHIBIT 4

NOT TO SCALE



Ohio Historic  
Preservation Office

### Legend

#### NR Listings

- Listed
- National Historic Landmark
- Delisted

#### NR Determinations of Eligibility

#### Historic Structures

#### Historic Bridges

#### Historic Tax Credit Projects

#### OGS Cemeteries

#### Confident

#### Not Confident

#### NR Boundaries

#### Historic Previously Surveyed

#### Highways

#### NPS Parks

#### Wayne National Forest

0.61 Miles

0.30

0

1: 24,000

### Copyright/Disclaimer

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

Datum: [Datum]

Projection: WGS\_1984\_Web\_Mercator\_Auxiliary\_Sphere





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**North Medina-West Medina 138 kV Transmission Lines Structure  
Replacement Project  
Case Number 18-0879-EL-BNR**

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**Date: May 29, 2018**

**Exhibit 6**

**Letter of Findings for the First Energy, Energizing the Future 2018 Wetland and  
Waterways Determination of the North Medina-West Medina 138kV Line Project**



1382 West Ninth Street  
Suite 400  
Cleveland, OH 44113

216.344.3072 PHONE  
216.344.3073 FAX

www.trcsolutions.com

May 16, 2018

First Energy Corporation  
76 South Main Street  
Akron, OH 44308

ATTN: Mr. Augustine Ruggiero

Subject: Letter of Findings for the First Energy, Energizing the Future 2018 Wetland and Waterways  
Determination of the North Medina-West Medina 138kV Line Project  
TRC Project No. 286577.0000.0000

Dear Mr. Ruggiero:

TRC Environmental Corporation (TRC) is pleased to provide this Letter of Findings (LOF) associated with the waterways determinations for the First Energy, Energizing the Future On-Call Project in Medina, Ohio. Attached to this LOF is mapping and photographs associated with the North Medina-West Medina 138kV Line pole replacement project.

On Thursday, 2/22/18, TRC biologists conducted a wetland and waterways determination for the proposed powerline rehabilitation project along the North Medina-West Medina 138kV line located adjacent to Marks Road. TRC personnel were prepared to conduct a wetland delineation if it was deemed necessary. The study area is located in the city of Medina, Medina County, Ohio, along the eastern side of Marks Road (**Figure 1**). The project area is primarily in a residential area.

TRC investigated the area surrounding three powerline structures (#9910, #9915, and #9916) for possible jurisdictional wetlands and streams. No jurisdictional features were identified within the study area. Each determination included a 20-foot radius study area around the base of the structure. Structures #9910 and #9916 are located in the mowed grass area along the side of the road and #9915 was located in a shrub area separating the road from the backyards of houses on a residential street (**Figure 1**). A soil sample was taken at #9915 due to the presence of standing water near the structure. Hydric soils were not present and recent persistent rains and snowmelt were determined to be the cause of the standing water. No ditches are present along the road.

If you have any questions or require further clarification of methods or findings, please do not hesitate to contact me at 216-505-6517 or via email at [tengle@trcsolutions.com](mailto:tengle@trcsolutions.com).

Sincerely,

**TRC Environmental Corporation**


A handwritten signature in black ink, appearing to read 'Tracy L. Engle', with a stylized flourish at the end.

**Tracy L. Engle, PWS**  
**Office Practice Leader**



**PHOTOGRAPHIC RECORD**  
FE ETF 2018 North Medina-West Medina 138kV

<b>Client Name:</b> First Energy Corporation	<b>Site Location:</b> Medina, Medina County, Ohio	<b>Project No.</b> 286577.0000.0000
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<b>Photo No. 1.</b>	
<b>Date:</b> 02/22/2018	
<b>Description:</b>  Structure #9916. Facing northwest.	

<b>Photo No. 2.</b>	
<b>Date:</b> 02/22/2018	
<b>Description:</b>  Structure #9910. Facing east.	



**PHOTOGRAPHIC RECORD**  
FE ETF 2018 North Medina-West Medina 138kV

<b>Client Name:</b> First Energy Corporation	<b>Site Location:</b> Medina, Medina County, Ohio	<b>Project No.</b> 286577.0000.0000
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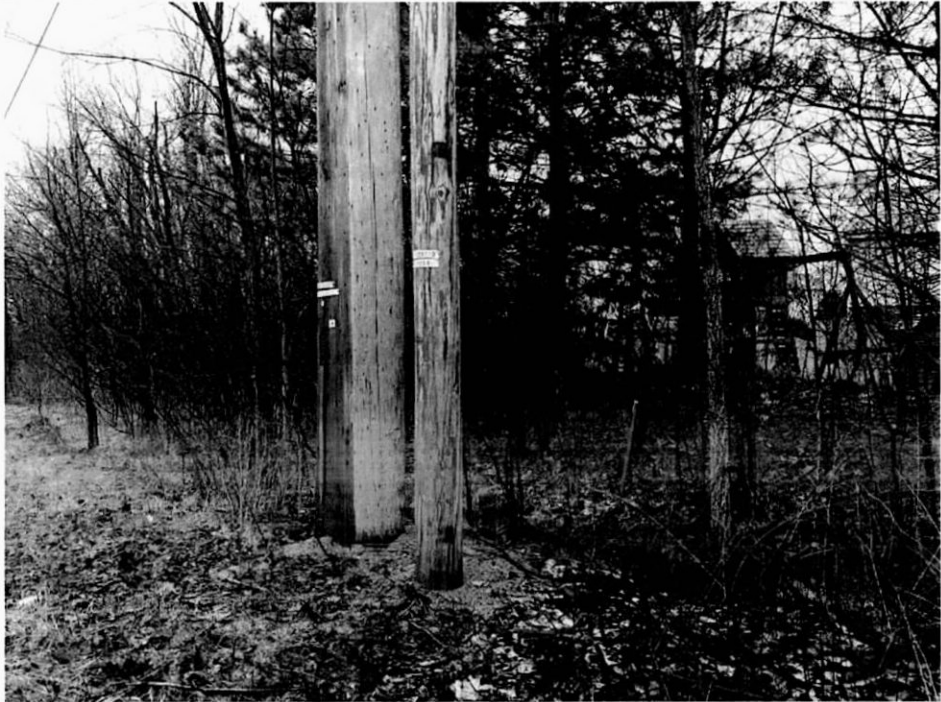
<b>Photo No. 3.</b>	
<b>Date:</b> 02/22/2018	
<b>Description:</b>  Structure #9915. Facing southeast.	

<b>Photo No. 4.</b>	
<b>Date:</b> 02/22/2018	
<b>Description:</b>  Structure #9915. Facing northeast.	



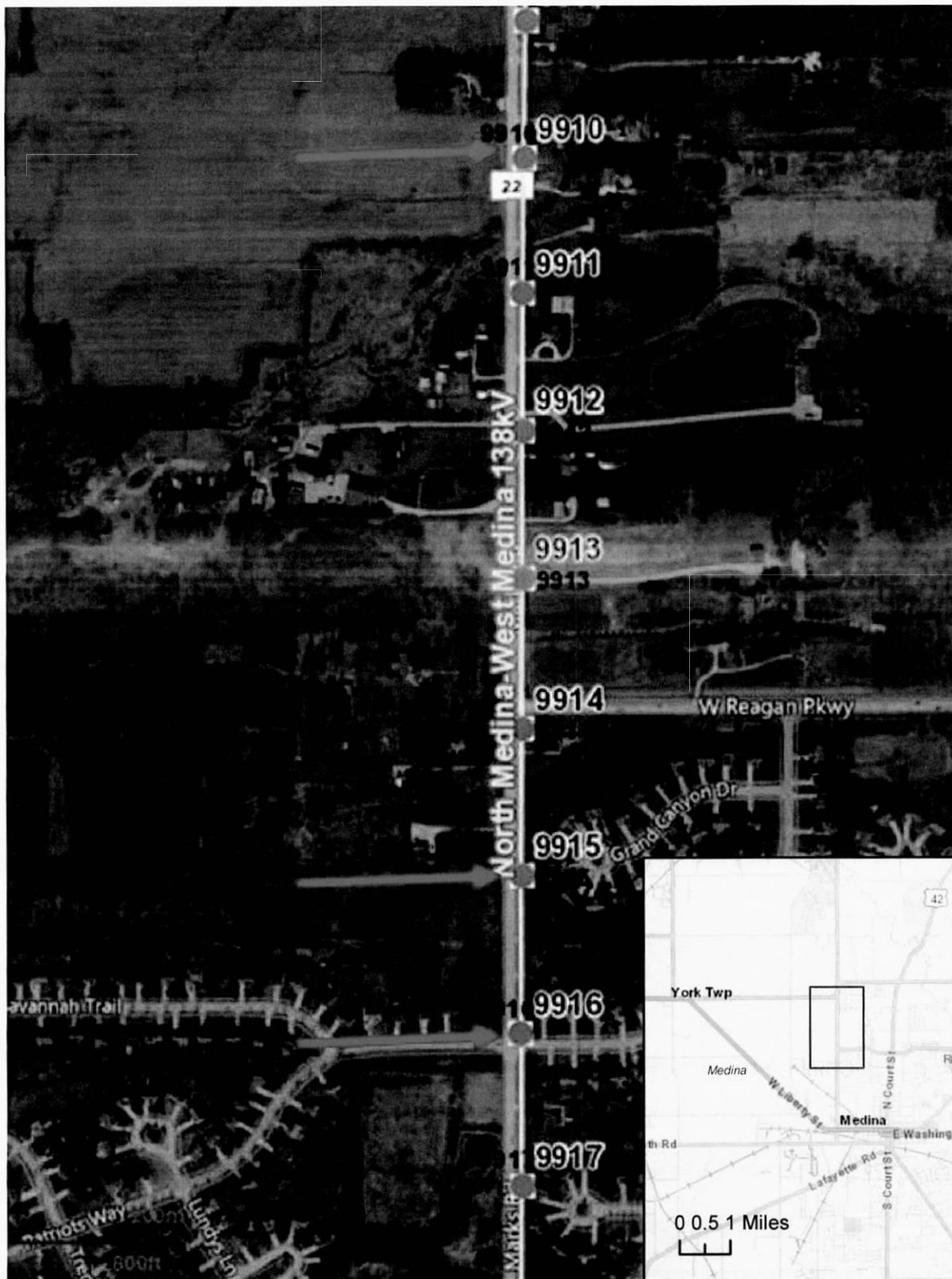
**PHOTOGRAPHIC RECORD**  
FE ETF 2018 North Medina-West Medina 138kV

<b>Client Name:</b> First Energy Corporation	<b>Site Location:</b> Medina, Medina County, Ohio	<b>Project No.</b> 286577.0000.0000
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<b>Photo No. 5.</b>	
<b>Date:</b> 02/22/2018	
<b>Description:</b>  Structure #9915. Facing northeast.	

<b>Photo No. 6.</b>	
<b>Date:</b> 02/22/2018	
<b>Description:</b>  Soil sample taken in shrub area with standing water at structure #9915. Soils are non-hydric.	





1382 West Ninth Street  
Suite 400  
Cleveland, OH 44113

PROJECT: **First Energy: Energizing the Future 2018**



TITLE: **North Medina-West Medina 138kV Line Project  
Medina, Medina County, Ohio**

DRAWN BY:	SKB
CHECKED BY:	BF
APPROVED BY:	JW
DATE:	MAY 2018
PROJ. NO.:	286577.0000
FILE:	FE ETF 2018 LOF Map.mxd

**Figure 1. Location Map**