

20  
76 South Main St.  
Akron, Ohio 44308  
RECEIVED-DOCKETING DIV  
2010 MAR 29 AM 10:29  
646-0400  
PLICO  
March 29, 2010

Ms. Renee J. Jenkins  
Director, Administration Department  
Secretary to the Commission  
Docketing Division  
The Public Utilities Commission of Ohio  
180 East Broad Street  
Columbus, OH 43215-3793

**Construction Notice**  
**Eastlake Substation-Eastlake Plant 138 kV**  
**Supply Project**  
**Case No. 10-0389-EL-BNR**

Dear Ms. Jenkins:

In accordance with Rule 4906-1-11 American Transmission Systems, Inc. ("ATSI"), a subsidiary of FirstEnergy Corp., on behalf of itself and as an agent for FirstEnergy Generation Corp., (collectively ATSI), transmits one (1) original and eleven (11) copies of the enclosed Construction Notice. In this project, ATSI is proposing to install three new conductors and static wire of a new circuit to span between the Eastlake Substation and Eastlake Plant, to provide a 138 kV supply for a new start up transformer. The Project is located within the Eastlake Plant site near the intersection of Erie Road and Halsey Drive in the City of Eastlake in Lake County, Ohio.

Please be advised of the following:

a) Name and address of the applicant:

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

b) Name of proposed facilities:

Eastlake Substation-Eastlake Plant 138 kV Supply.

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 MMM Date Processed 03/30/10

c) Location of proposed facilities:

The project is located at the Eastlake Substation and Eastlake Plant in the city of Eastlake, Lake County, Ohio.

d) Description of proposed facilities:

ATSI is proposing to install three new conductors and static wire of a 138 kV circuit to span between the Eastlake Substation and Eastlake Plant, to provide a 138 kV supply for a new start up transformer.

e) Applicant's representative:

Scott Humphrys,  
Associate Distribution Specialist  
Energy Delivery Transmission and Substation Design  
FirstEnergy Service Company  
76 South Main Street  
Akron, OH 44308-1890

After docketing this filing, please return one time-stamped copy of the Construction Notice for our records to us in the enclosed envelope. We have provided a copy of this Construction Notice by certified mail, with return receipt requested, to officials of the political subdivisions immediately affected by the proposed project as listed in the attached Exhibit 1. Copies of the transmittal letters addressed to the local government representatives of the city of Eastlake, and to Lake County are enclosed for your file.

Should the Ohio Power Siting Board desire further information or discussion of this submittal, please contact me at (330) 384-2526.

Sincerely,



Scott Humphrys  
Associate Distribution Specialist  
Energy Delivery Transmission and  
Substation Design  
FirstEnergy Service Company

Attachments

**EXHIBIT 1**  
**Eastlake Substation-Eastlake Plant 138 kV**  
**Supply Project**  
**Case No. 10-0389-EL-BNR**

**Lake County**

The Honorable Daniel P. Troy  
Lake County Commissioner  
105 Main Street P.O. Box 490  
Painesville, OH 44077

Ms. Vanessa Pesec, Chair  
Lake County Planning Commission  
125 Erie Street  
Painesville, OH 44077

The Honorable Robert E. Aufuldish  
Lake County Commissioner  
105 Main Street P.O. Box 490  
Painesville, OH 44077

Mr. James R. Gills, P.E., P.S.  
Lake County Engineer  
550 Blackbrook Road  
Painesville, OH 44077

The Honorable Raymond E. Sines  
Lake County Commissioner  
105 Main Street P.O. Box 490  
Painesville, OH 44077

**City of Eastlake**

The Honorable Ted Andrzejewski  
Mayor, City of Eastlake  
35150 Lakeshore Boulevard  
Eastlake, OH 44095

Ms. Deborah Cendroski  
Council Clerk, City of Eastlake  
35150 Lakeshore Boulevard  
Eastlake, OH 44095

The Honorable Dennis Morley  
Council President, City of Eastlake  
35150 Lakeshore Boulevard  
Eastlake, OH 44095

Mr. James M. Stigalt, CBO  
Chief Building Officer  
Building and Property Maintenance  
Department  
35150 Lakeshore Boulevard  
Eastlake, OH 44095

March 29, 2010

The Honorable Daniel P. Troy  
Lake County Commissioner  
105 Main Street P.O. Box 490  
Painesville, OH 44077

**Construction Notice**  
**Eastlake Substation-Eastlake Plant 138 kV**  
**Supply Project**  
**Case No. 10-0389-EL-BNR**

Dear Commissioner Troy,

In the above captioned project, American Transmission Systems, Inc. ("ATSI"), a subsidiary of FirstEnergy Corp., on behalf of itself and as an agent for FirstEnergy Generation Corp., (collectively ATSI), is proposing to install three new conductors and static wire of a new 138 kV circuit that will span between the Eastlake Substation and Eastlake Plant, to provide a 138 kV supply for a new start up transformer. The Project is located within the Eastlake Plant site near the intersection of Erie Road and Halsey Drive in the City of Eastlake in Lake County, Ohio.

In accordance with the provisions of Ohio Administrative Code ("OAC") Rule 4906-1-01, this project falls within the Ohio Power Siting Board's requirements for a Construction Notice ("Notice"). Therefore, in compliance with OAC 4906-11-02 of the OPSB's Rules and Regulations, we have prepared and filed the attached Notice with the OPSB for their review and approval. The Notice contains a description of the Project and is provided for your information.

I'll be glad to answer any question concerning this matter. You can contact me at (330) 384-2526.

Sincerely,



Scott Humphrys  
Associate Distribution Specialist  
Energy Delivery Transmission and  
Substation Design  
FirstEnergy Service Company

Attachment

March 29, 2010

The Honorable Robert E. Aufuldish  
Lake County Commissioner  
105 Main Street P.O. Box 490  
Painesville, OH 44077

**Construction Notice**  
**Eastlake Substation-Eastlake Plant 138 kV**  
**Supply Project**  
**Case No. 10-0389-EL-BNR**

Dear Commissioner Aufuldish,

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Sincerely,



Scott Humphrys  
Associate Distribution Specialist  
Energy Delivery Transmission and  
Substation Design  
FirstEnergy Service Company

Attachment

March 29, 2010

The Honorable Raymond E. Sines  
Lake County Commissioner  
105 Main Street P.O. Box 490  
Painesville, OH 44077

**Construction Notice**  
**Eastlake Substation-Eastlake Plant 138 kV**  
**Supply Project**  
**Case No. 10-0389-EL-BNR**

Dear Commissioner Sines,

In the above captioned project, American Transmission Systems, Inc. ("ATSI"), a subsidiary of FirstEnergy Corp., on behalf of itself and as an agent for FirstEnergy Generation Corp., (collectively ATSI), is proposing to install three new conductors and static wire of a new 138 kV circuit that will span between the Eastlake Substation and Eastlake Plant, to provide a 138 kV supply for a new start up transformer. The Project is located within the Eastlake Plant site near the intersection of Erie Road and Halsey Drive in the City of Eastlake in Lake County, Ohio.

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Sincerely,



Scott Humphrys  
Associate Distribution Specialist  
Energy Delivery Transmission and  
Substation Design  
FirstEnergy Service Company

Attachment

March 29, 2010

Ms. Vanessa Pesech, Chair  
Lake County Planning Commission  
125 Erie Street  
Painesville, OH 44077

**Construction Notice**  
**Eastlake Substation-Eastlake Plant 138 kV**  
**Supply Project**  
**Case No. 10-0389-EL-BNR**

Dear Ms. Pesech,

In the above captioned project, American Transmission Systems, Inc. ("ATSI"), a subsidiary of FirstEnergy Corp., on behalf of itself and as an agent for FirstEnergy Generation Corp., (collectively ATSI), is proposing to install three new conductors and static wire of a new 138 kV circuit that will span between the Eastlake Substation and Eastlake Plant, to provide a 138 kV supply for a new start up transformer. The Project is located within the Eastlake Plant site near the intersection of Erie Road and Halsey Drive in the City of Eastlake in Lake County, Ohio.

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Sincerely,



Scott Humphrys  
Associate Distribution Specialist  
Energy Delivery Transmission and  
Substation Design  
FirstEnergy Service Company

Attachment

March 29, 2010

Mr. James R. Gills, P.E., P.S.  
Lake County Engineer  
550 Blackbrook Road  
Painesville, OH 44077

**Construction Notice**  
**Eastlake Substation-Eastlake Plant 138 kV**  
**Supply Project**  
**Case No. 10-0389-EL-BNR**

Dear Mr. Gills,

In the above captioned project, American Transmission Systems, Inc. ("ATSI"), a subsidiary of FirstEnergy Corp., on behalf of itself and as an agent for FirstEnergy Generation Corp., (collectively ATSI), is proposing to install three new conductors and static wire of a new 138 kV circuit that will span between the Eastlake Substation and Eastlake Plant, to provide a 138 kV supply for a new start up transformer. The Project is located within the Eastlake Plant site near the intersection of Erie Road and Halsey Drive in the City of Eastlake in Lake County, Ohio.

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Sincerely,



Scott Humphrys  
Associate Distribution Specialist  
Energy Delivery Transmission and  
Substation Design  
FirstEnergy Service Company

Attachment



March 29, 2010

The Honorable Ted Andrzejewski  
Mayor, City of Eastlake  
35150 Lakeshore Boulevard  
Eastlake, OH 44095

**Construction Notice**  
**Eastlake Substation-Eastlake Plant 138 kV**  
**Supply Project**  
**Case No. 10-0389-EL-BNR**

Dear Mayor Andrzejewski,

In the above captioned project, American Transmission Systems, Inc. ("ATSI"), a subsidiary of FirstEnergy Corp., on behalf of itself and as an agent for FirstEnergy Generation Corp., (collectively ATSI), is proposing to install three new conductors and static wire of a new 138 kV circuit that will span between the Eastlake Substation and Eastlake Plant, to provide a 138 kV supply for a new start up transformer. The Project is located within the Eastlake Plant site near the intersection of Erie Road and Halsey Drive in the City of Eastlake in Lake County, Ohio.

In accordance with the provisions of Ohio Administrative Code ("OAC") Rule 4906-1-01, this project falls within the Ohio Power Siting Board's requirements for a Construction Notice ("Notice"). Therefore, in compliance with OAC 4906-11-02 of the OPSB's Rules and Regulations, we have prepared and filed the attached Notice with the OPSB for their review and approval. The Notice contains a description of the Project and is provided for your information.

I'll be glad to answer any question concerning this matter. You can contact me at (330) 384-2526.

Sincerely,



Scott Humphrys  
Associate Distribution Specialist  
Energy Delivery Transmission and  
Substation Design  
FirstEnergy Service Company

Attachment

March 29, 2010

The Honorable Dennis Morley  
Council President, City of Eastlake  
35150 Lakeshore Boulevard  
Eastlake, OH 44095

**Construction Notice**  
**Eastlake Substation-Eastlake Plant 138 kV**  
**Supply Project**  
**Case No. 10-0389-EL-BNR**

Dear Mr. Morley,

In the above captioned project, American Transmission Systems, Inc. ("ATSI"), a subsidiary of FirstEnergy Corp., on behalf of itself and as an agent for FirstEnergy Generation Corp., (collectively ATSI), is proposing to install three new conductors and static wire of a new 138 kV circuit that will span between the Eastlake Substation and Eastlake Plant, to provide a 138 kV supply for a new start up transformer. The Project is located within the Eastlake Plant site near the intersection of Erie Road and Halsey Drive in the City of Eastlake in Lake County, Ohio.

In accordance with the provisions of Ohio Administrative Code ("OAC") Rule 4906-1-01, this project falls within the Ohio Power Siting Board's requirements for a Construction Notice ("Notice"). Therefore, in compliance with OAC 4906-11-02 of the OPSB's Rules and Regulations, we have prepared and filed the attached Notice with the OPSB for their review and approval. The Notice contains a description of the Project and is provided for your information.

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Sincerely,



Scott Humphrys  
Associate Distribution Specialist  
Energy Delivery Transmission and  
Substation Design  
FirstEnergy Service Company

Attachment

March 29, 2010

Ms. Deborah Cendroski  
Council Clerk, City of Eastlake  
35150 Lakeshore Boulevard  
Eastlake, OH 44095

**Construction Notice**  
**Eastlake Substation-Eastlake Plant 138 kV**  
**Supply Project**  
**Case No. 10-0389-EL-BNR**

Dear Ms. Cendroski,

In the above captioned project, American Transmission Systems, Inc. ("ATSI"), a subsidiary of FirstEnergy Corp., on behalf of itself and as an agent for FirstEnergy Generation Corp., (collectively ATSI), is proposing to install three new conductors and static wire of a new 138 kV circuit that will span between the Eastlake Substation and Eastlake Plant, to provide a 138 kV supply for a new start up transformer. The Project is located within the Eastlake Plant site near the intersection of Erie Road and Halsey Drive in the City of Eastlake in Lake County, Ohio.

In accordance with the provisions of Ohio Administrative Code ("OAC") Rule 4906-1-01, this project falls within the Ohio Power Siting Board's requirements for a Construction Notice ("Notice"). Therefore, in compliance with OAC 4906-11-02 of the OPSB's Rules and Regulations, we have prepared and filed the attached Notice with the OPSB for their review and approval. The Notice contains a description of the Project and is provided for your information.

I'll be glad to answer any question concerning this matter. You can contact me at (330) 384-2526.

Sincerely,



Scott Humphrys  
Associate Distribution Specialist  
Energy Delivery Transmission and  
Substation Design  
FirstEnergy Service Company

Attachment

March 29, 2010

Mr. James M. Stigalt, CBO  
Chief Building Officer  
Building and Property Maintenance Department  
35150 Lakeshore Boulevard  
Eastlake, OH 44095

**Construction Notice**  
**Eastlake Substation-Eastlake Plant 138 kV**  
**Supply Project**  
**Case No. 10-0389-EL-BNR**

Dear Mr. Stigalt,

In the above captioned project, American Transmission Systems, Inc. ("ATSI"), a subsidiary of FirstEnergy Corp., on behalf of itself and as an agent for FirstEnergy Generation Corp., (collectively ATSI), is proposing to install three new conductors and static wire of a new 138 kV circuit that will span between the Eastlake Substation and Eastlake Plant, to provide a 138 kV supply for a new start up transformer. The Project is located within the Eastlake Plant site near the intersection of Erie Road and Halsey Drive in the City of Eastlake in Lake County, Ohio.

In accordance with the provisions of Ohio Administrative Code ("OAC") Rule 4906-1-01, this project falls within the Ohio Power Siting Board's requirements for a Construction Notice ("Notice"). Therefore, in compliance with OAC 4906-11-02 of the OPSB's Rules and Regulations, we have prepared and filed the attached Notice with the OPSB for their review and approval. The Notice contains a description of the Project and is provided for your information.

I'll be glad to answer any question concerning this matter. You can contact me at (330) 384-2526.

Sincerely,



Scott Humphrys  
Associate Distribution Specialist  
Energy Delivery Transmission and  
Substation Design  
FirstEnergy Service Company

Attachment

RECEIVED-DOCKETING DIV  
2010 MAR 30 AM 10:29  
PUCO

**AMERICAN TRANSMISSION SYSTEMS, INCORPORATED  
A SUBSIDIARY OF FIRSTENERGY CORP.**

**and**

**FIRSTENERGY GENERATION CORP.**

**CONSTRUCTION NOTICE**

**EASTLAKE SUBSTATION-EASTLAKE PLANT  
138 kV SUPPLY PROJECT**

**OPSB CASE NO. 10-0389-EL-BNR**

**March 29, 2010**

**American Transmission Systems, Incorporated  
76 South Main Street  
Akron, Ohio 44308  
and  
FIRSTENERGY Generation Corp.  
76 South Main Street  
Akron, Ohio 44308**

**CONSTRUCTION NOTICE  
EASTLAKE SUBSTATION-EASTLAKE PLANT  
138 kV SUPPLY PROJECT**

The following information is being provided in accordance with the procedures delineated in Ohio Administrative Code Section 4906-11-02: Construction Notice Requirements of the Rules and Regulations of the Ohio Power Siting Board.

**4906-11-02 (B): Need Statement**

**4906-11-02 (A) (1) a: Name of Project**

Name of Project:           Eastlake Substation-Eastlake Plant 138 kV Supply  
Project ("Project")

**4906-11-02 (B) (2) a: Brief Description of Project**

In the Eastlake Substation-Eastlake Plant 138 kV Supply Project, American Transmission Systems, Incorporated (ATSI), a FirstEnergy Corp. subsidiary, on behalf of itself and as an agent for FirstEnergy Generation Corp. (FE GENCO), (collectively ATSI), is proposing to install an additional 138 kV circuit and static wire that will span between ATSI's Eastlake Substation and FE GENCO's Eastlake Plant. The proposed Project will provide a 138 kV supply for a new start up transformer being installed at the Eastlake Plant. The Project is located within the Eastlake Plant site that is located near the intersection of Erie Road and Halsey Drive in the City of Eastlake in Lake County, Ohio. The general location of the Project is shown in Exhibit No. 1, which is a partial copy of the United States Geologic Survey, Lake and Cuyahoga Counties, Ohio Quad, Map ID 41081-F4. The general layout of the Project is shown in Exhibit No. 2.

The Project involves the installation of an additional 138 kV circuit and static wire that will span between the ATSI's Eastlake Substation and FE

GENCO's Eastlake Plant, as well as slightly relocating an existing 138 kV circuit that also spans from the Eastlake Substation to the Eastlake Plant. The new 138 kV circuit functions as an extension of the substation bus and will consist of three (3) 336 ACSR 36/1 conductors and a 134.6 12/7 static wire, that will span approximately 630 feet (0.11 miles) from a new A-frame substation take-off structure being installed in the Eastlake Substation, to an existing truss structure located at the transformer shelf at the Eastlake Plant that is being reinforced to accept the additional transmission line. The connection location of the three conductors of an adjacent and existing 138 kV circuit on the existing truss structure will be relocated laterally approximately seven (7) feet to a new dead end connection on the existing truss to provide space for the new circuit.

This Construction Notice covers the addition of the new 138 kV circuit and slight relocation of the existing circuit, but does not include installation of additional equipment within the fence line of the Eastlake substation or within the Eastlake Plant.

**4906-11-02 (B) (2) b: Why the Project Meets the Requirements for a Construction Notice**

Although the new 138 kV circuits are part of the Eastlake Substation and Eastlake Plant facilities and function as part of the substation bus, because it is similar in appearance to an overhead electric transmission line and is being installed outside of the substation fence line, its installation is being submitted for the Ohio Power Siting Board's review and approval as a 138 kV transmission line.

The project meets the requirements for a Construction Notice because the project is within the types of project defined by Item (1) (d) of the Application Requirement Matrix for Electric Power Transmission Lines in Appendix A of 4906-1-01 of the Ohio Administrative Code. Which states:

*(1) Rerouting or extension or new construction of single or multiple circuit electric power transmission line(s) as follows:*

*(d) Line(s) one hundred twenty-five kV and above, but less than three hundred kV, and not greater than 0.2 miles in length.*

The proposed project involves installing three new conductors that span from the Eastlake Substation to the Eastlake Plant approximately 630 feet (0.11 miles) to the southwest.

**4906-11-02 (B) (3): Need for the Project**

The proposed Project is needed to supply service to a new 2400V start up transformer being installed at the Eastlake Plant.

**4906-11-02 (B) (4): Construction Schedule**

Construction on the project is expected to begin as early as April 30, 2010. The project is expected to be completed by December 31, 2010.

**4906-11-02 (B) (5): Estimated Costs**

The following is the estimated capital cost for the Project:

Estimated Cost:	\$50,730
-----------------	----------

**4906-11-02 (B) (6): Operating Characteristics**

The new 138 kV circuit that is going to supply power for the new start up transformer will operate at 138 kV. This new circuit is in the same general area as five (5) other 138 kV circuits.

**4906-11-02 (B) (7): Area Map**

Exhibit 1 depicts the general location of the Project site. This exhibit provides a partial copy of the United States Geologic Survey, Lake and Cuyahoga Counties, Ohio Quad, Map ID 41081-F4. To locate and view the Project site from Columbus, Ohio, travel north on I-71 for approximately 139 miles and merge onto I-90 E and proceed approximately 14.4 miles. Make a slight left at



OH-2 E and proceed approximately 4.8 miles. Take the OH-640 W/Vine St exit and merge onto OH-640 W/Vine St. Turn right at OH-91 N/Som Center Rd and go about 1.4 miles. Turn right at Lake Shore Blvd/OH-283 E and go approximately 0.3 miles. Turn left at Erie Rd and the Project site will be on the west side of the road in approximately 0.9 miles.

**4906-11-02 (B) (8): Property List**

Property in the Project area is currently owned by ATSI and FE GENCO. No new easements are anticipated to be required.

**4906-11-01 (C) : Documentation of Letter of Notification Transmittal**

This Construction Notice is being provided concurrently to:

**Lake County**

The Honorable Daniel P. Troy  
Lake County Commissioner  
105 Main Street P.O. Box 490  
Painesville, OH 44077

Ms. Vanessa Pesec, Chair  
Lake County Planning Commission  
125 Erie Street  
Painesville, OH 44077

The Honorable Robert E. Aufuldish  
Lake County Commissioner  
105 Main Street P.O. Box 490  
Painesville, OH 44077

Mr. James R. Gills, P.E., P.S.  
Lake County Engineer  
550 Blackbrook Road  
Painesville, OH 44077

The Honorable Raymond E. Sines  
Lake County Commissioner  
105 Main Street P.O. Box 490  
Painesville, OH 44077

**City of Eastlake**

The Honorable Ted Andrzejewski  
Mayor, City of Eastlake  
35150 Lakeshore Boulevard  
Eastlake, OH 44095

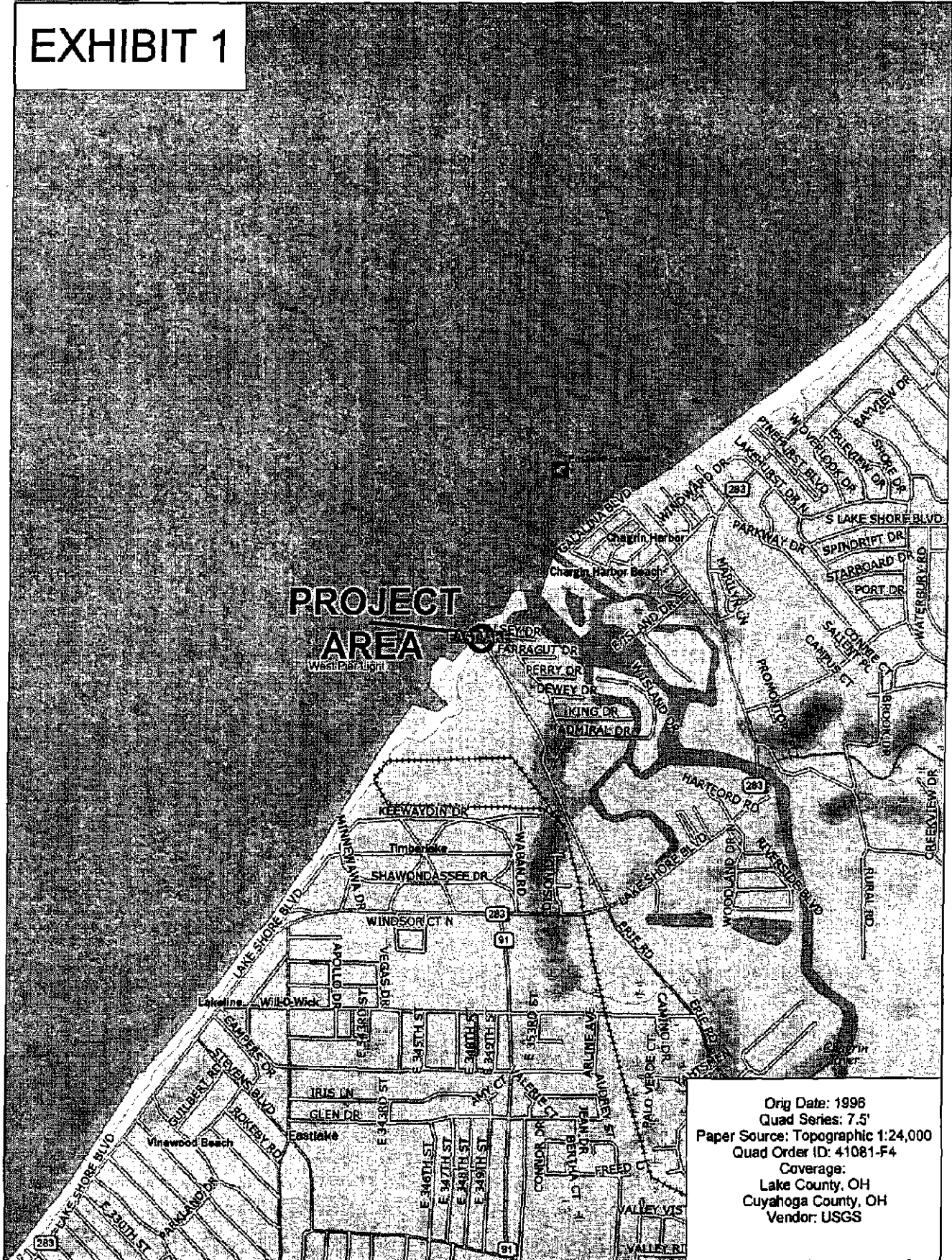
Ms. Deborah Cendroski  
Council Clerk, City of Eastlake  
35150 Lakeshore Boulevard  
Eastlake, OH 44095

The Honorable Dennis Morley  
Council President, City of Eastlake  
35150 Lakeshore Boulevard  
Eastlake, OH 44095

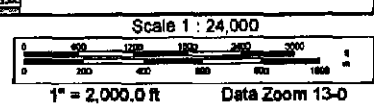
Mr. James M. Stigalt, CBO  
Chief Building Officer  
Building and Property Maintenance  
Department  
35150 Lakeshore Boulevard  
Eastlake, OH 44095

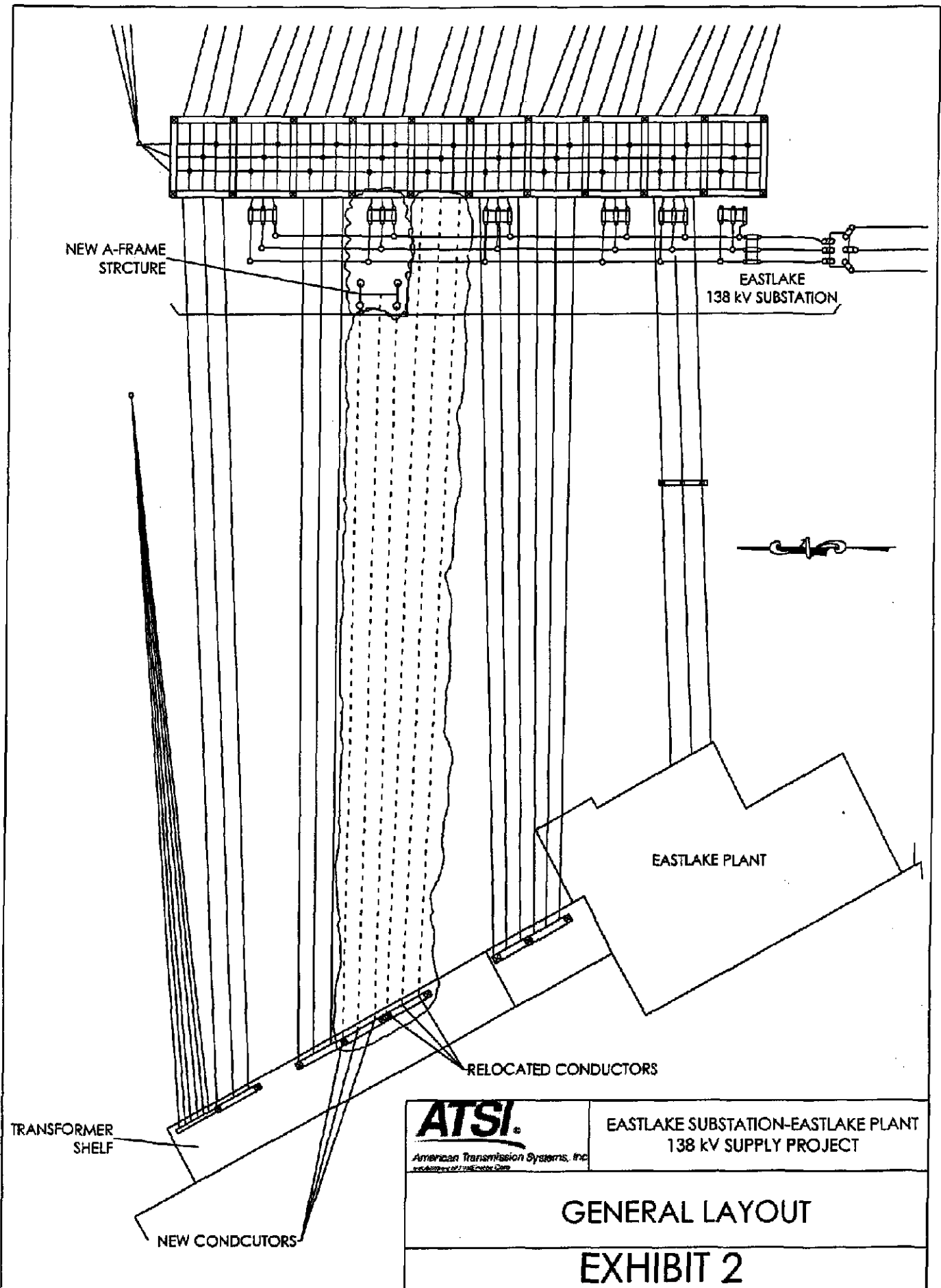
Copies of the transmittal letters to these officials have been included with the transmittal letter submitting this Construction Notice to the Ohio Power Siting Board.

# EXHIBIT 1



Orig Date: 1996  
 Quad Series: 7.5'  
 Paper Source: Topographic 1:24,000  
 Quad Order ID: 41081-F4  
 Coverage:  
 Lake County, OH  
 Cuyahoga County, OH  
 Vendor: USGS





NEW A-FRAME  
STRUCTURE

EASTLAKE  
138 kV SUBSTATION

EASTLAKE PLANT

RELOCATED CONDUCTORS

TRANSFORMER  
SHELF

NEW CONDUCTORS

**ATSI.**  
American Transmission Systems, Inc.  
an American Electric Power Company

EASTLAKE SUBSTATION-EASTLAKE PLANT  
138 kV SUPPLY PROJECT

GENERAL LAYOUT

EXHIBIT 2