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Legal Department

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American Electric Power  
1 Riverside Plaza  
Columbus, OH 43215  
AEP.com

July 18, 2007

The Honorable Alan R. Schriber  
Chairman  
Ohio Power Siting Board  
180 East Broad Street  
Columbus, Ohio 43215-3793

Steven T. Nourse  
Senior Counsel -  
Regulatory Services  
(614) 716-1608 (P)  
(614) 716-2014 (F)  
stnourse@aep.com

Re: **Letter of Notification**, Warner 138kV  
Extension - Service to RTI

Dear Chairman Schriber:

In accordance with Rules 4906-5-02 and 4906-11-01, Ohio Administrative Code ("O.A.C."), Ohio Power Company, (American Electric Power or "AEP") submits this Letter of Notification.

As required by Rule 4906-11-01(C)(4), O.A.C., AEP has submitted a copy of this Construction Notice to the political subdivisions immediately affected by the proposed project. Specifically, copies of the Letter of Notification have been sent to the Stark County Commissioners and the Mayor of Canton. The cover letter accompanying these mailings is included in the Letter of Notification Appendix.

Respectfully Submitted,

A handwritten signature in black ink, appearing to read "Stnourse", is written over a horizontal line.

Steven T. Nourse  
Senior Attorney  
American Electric Power Service  
Corporation  
1 Riverside Plaza, 29<sup>th</sup> Floor  
Columbus, Ohio 43215  
Telephone: (614) 716-1608  
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Technician Am Date Processed 7/18/07

# Letter of Notification

for the

Service to RTI  
Warner 138 kV Extension

Submitted by

American Electric Power  
Ohio Power Company

to

The State of Ohio Power Siting Board

2007

## **LETTER OF NOTIFICATION**

In accordance with Ohio Administrative Code Section 4906-11-01 Letter of Notification, American Electric Power dba Ohio Power Company hereby submits the following information:

### **4906-11-01 (A) General Information**

#### **4906-11-01 (A)(1) Project Name and Reference Number**

The name of this project is the Service to RTI, Warner 138 kV Extension. This project is not identified in Ohio Power and Columbus Southern Power Company's latest Long-Term Forecast Report because the need for the project was not known at the time the report was filed.

#### **4906-11-01 (A)(1) Description of this Project**

This project consists of constructing one new single circuit 138 kV transmission lines. The line, to be known as the Warner 138 kV Extension, will tap the existing Akron-Canton 138 kV Line and extend approximately 0.3 miles long to a new customer owned distribution station. The line will utilize three (3) 556,500 cm ACSR (26/7) conductors and one 7#8 alumoweld overhead groundwire. On the Warner 138 kV Extension, a steel switch pole and approximately seven single steel pole structures will be installed. All necessary rights of way for the new line have been secured.

**4906-11-01 (A)(1) Reason the Project Meets Letter of Notification**

**Requirements**

This project meets the requirements for a Letter of Notification because the extent of this project is defined by Item (1)(c) of the Appendix A "Application Requirement Matrix for Electric Transmission Lines", Item 1(c). This project consists of constructing a transmission line which is greater than 125 kV but less than 300 kV and is not greater than two miles in length.

**4906-11-01 (A)(2) Need for the Project**

RTI operates a titanium processing plant in Canton, Ohio and is planning a future expansion to this plant. As part of this future expansion, RTI is constructing a new 138 kV/12 kV distribution station on the southwest corner of their property. RTI has requested that American Electric Power provide 138 kV service to its new distribution station located in Canton Township, Stark County, Ohio as shown on Maps 1 and 2. RTI is paying for all costs associated with the construction of this 138 kV transmission line.

**4906-11-01 (A)(3) Project Location Relative to Existing or Proposed Lines**

The location of the proposed the Warner 138 kV Extension is shown on Maps 1, 2 and 3. Map 3 is a reduced copy of Columbus Southern and Ohio Power Company's Transmission System as of December 31, 2012, as submitted to the Public Utility Commission of Ohio in our latest Long-Term Forecast Report. The location of the proposed 138 kV project has been circled for easy identification.

**4906-11-01 (A)(4) Alternatives Considered**

The location of the proposed distribution station site was selected by RTL. This site was selected based upon the assembly plant's future expansion and the location of existing American Electric Power's transmission facilities. The line route was kept as short as possible to minimize costs and limit impacts to the surrounding environment. RTI decided to construct there own distribution station and requested 138 kV service only, after they had completed an exhaustive study of their existing and future electrical needs.

**4906-11-01 (A)(5) Anticipated Construction Schedule**

Construction of the line is expected to begin in early October, 2007, and is to be completed and placed in service on or before November 21, 2007.

**4906-11-01 (A)(6) Maps Depicting Project Location**

Two Maps have been prepared showing the project location. Map 1, the General Location Map, indicates the area and existing electrical facilities surrounding the project. Map 2, the Detail Site Map, shows the specific location of the proposed line and structures.

To view this project take US Route 30 east to Canton, Ohio. Exit US Route 30 at Cherry Avenue. Go south on Cherry Avenue to the intersection of Sherrick Road. Go east on to Sherrick Road to the intersection of Warner Road. Go south on Warner Road and the project area can be viewed east of and west of RTP's facility.

## **4906-11-01 (B) Technical Features of the Project**

### **4906-11-01 (B)(1) Description of Technical Features**

The proposed line will be designed and operated at 138 kV. Figure 1 depicts a typical single steel pole tangent structure to be installed on the line. Figure 2 depicts the proposed guyed steel switch pole that is to be installed on the Warner 138kV Extension.

### **4906-11-01 (B)(1) Number and Type of Structures**

The proposed Warner 138kV Extension, which will tap the existing Akron-Canton 138 kV Line, will utilize three (3) 556,500 cm ACSR (26/7) conductors and one 7#8 alumoweld overhead groundwire. A total of 6 steel pole tangent structures (Figure 1), one guyed steel pole structure and one guyed steel switch pole (Figure 2) will be installed. An existing Ohio Power Company distribution line in the area will be relocated and installed on some of the new 138 kV poles.

### **4906-11-01 (B)(1) Right of Way Requirements**

A 70' wide right of way (35' on each side of centerline) will be obtained from RTI and two other landowners for the installation of this transmission.

### **4906-11-01 (B)(2)(a) Calculated Electric and Magnetic Field Levels**

#### **Line Loading & Ratings:**

Normal Maximum	Emergency	Winter Normal Conductor
<u>Loading</u>	<u>Loading</u>	<u>Loading</u>
65 MVA	65 MVA	1078 MVA

The calculated electrical and magnetic field levels for the proposed conductor configuration as shown by Figure 4 is provided below.

**EMF Values:**

Conductor Loading Condition	Electric Field (kV/m)		Magnetic Field (mG)	
	Maximum		Maximum	
	Under Line	Edge ROW	Under Line	Edge ROW
Normal Maximum	0.64	0.35	3.64	2.24
Emergency	0.64	0.35	3.64	2.24
Winter Normal	0.73	0.36	69.50	40.70

**4906-11-01 (B)(2)(b) Discussion of Design Alternatives**

Single circuit, horizontal post steel pole construction was selected to minimize right of way requirements and minimize EMF values. Other types of construction such as two pole H-frame construction would have resulted in fewer structures but would have required a wider right of way width.

**4906-11-01 (B)(3) Estimated Capital Costs**

The following estimated capital costs for the proposed project have been tabulated by the Federal Energy Regulatory Commission (FERC) Electric Plant Transmission Accounts:

**FERC Accounts**

350 Land and Land Rights

**Estimated Capital Costs**

\$ 70,000

355 Poles and Fixtures	\$ 338,000
356 Overhead Conductors and Devices	\$ 138,000
362 Switches and Fixtures	<u>\$ 170,000</u>
Total	\$ 716,000

#### **4906-11-01 (C) Socioeconomic Data**

##### **4906-11-01 (C)(1) Land Use and Population Density**

This transmission line project is located in Section 15, Canton Township, Stark County, Ohio. Land use in this area is a wide mixture of industrial, agricultural and residential. A large industrial park containing RTI's Facility is located on the west side of Warner Road. Residential housing is located about 0.3 miles north of and south of RTI's Facilities on Warner Road. Agricultural land is located throughout the area. Based upon the 2000 census data from the U. S. Bureau of the Census, Canton Township has a population density of 102 people per square mile.

##### **4906-11-01 (C)(2) Location and Description of Existing Agricultural Districts**

This project is not within the limits of any Agricultural District land as defined by Chapter 929 of the Ohio Revised Code.

##### **4906-11-01 (C)(3) Archeological and Cultural Resources**

A search of the Ohio Historic Preservation Office (OHPO) National Register of Historic Places on-line data bases was conducted and did not identify the existence of any historic sites within the project area. Properties on the OHPO



database includes all listings on the National Register of Historic Places as well as districts, sites, buildings, structures and objects that are significant in American history, architecture, archeology engineering and culture. Most of the project area has been extensively disturbed by the construction existing industrial facilities.

**4906-11-01 (C)(4) Local Officials to be Notified**

Copies of this Letter of Notification have been sent to the Mayor of the City of Canton, Stark County Commissioners and Canton Township Trustees. Copies of the cover letters to these officials are attached.

**4906-11-01 (C)(4) Public Information Program**

Local landowners adjacent to the proposed transmission lines have been contacted personally by AEP. The landowners involved are Arvilla Oil Services, Belden Blake Oil Services and RTI. The need for the project, type of construction and exact location of the proposed transmission line has been discussed with them in detail.

**4906-11-01 (C)(5) Current or Pending Litigation**

The property owners have been contacted and easements will be obtained for the construction and operation of this transmission line. There is no current litigation involving this project and none is expected.

**4906-11-01 (C)(6) Local, State and Federal Requirements**

This line will be designed, constructed, and operated to meet or exceed the requirements of the National Electrical Safety Code, American Electric Power design standards, and all applicable OSHA standards.

**4906-11-01 (D) Environmental**

**4906-11-01 (D)(1) Endangered or Threatened Species**

The Ohio Department of Natural Resources, Division of Natural Areas and Preserves were contacted regarding the presence of any endangered, threatened, or rare species that may be affected by this project. Their response indicated no known existing or proposed state nature preserves or scenic rivers within the proposed project area. They also indicated that they were unaware of any unique ecological sites, geological features, animal assemblages or state parks, forests, or wildlife areas within the project area. A copy of the information request, as well as the response from the Ohio Department of Natural Resources is included in the Appendix. The United States Department of the Interior, Fish and Wildlife Service was also contacted regarding the presence of any endangered, threatened, or rare species that may be affected by this project. They have not responded at this time. If a response is received, it will be forwarded to the OPSB Staff. In order to address any potential for threatened/endangered species in the project area, AEP shall, to the extent possible, avoid tree removal at the project site. The trees that must be removed will be removed between September 15<sup>th</sup> & April 15<sup>th</sup>.

**4906-11-01 (D)(2) Areas of Ecological Concern**

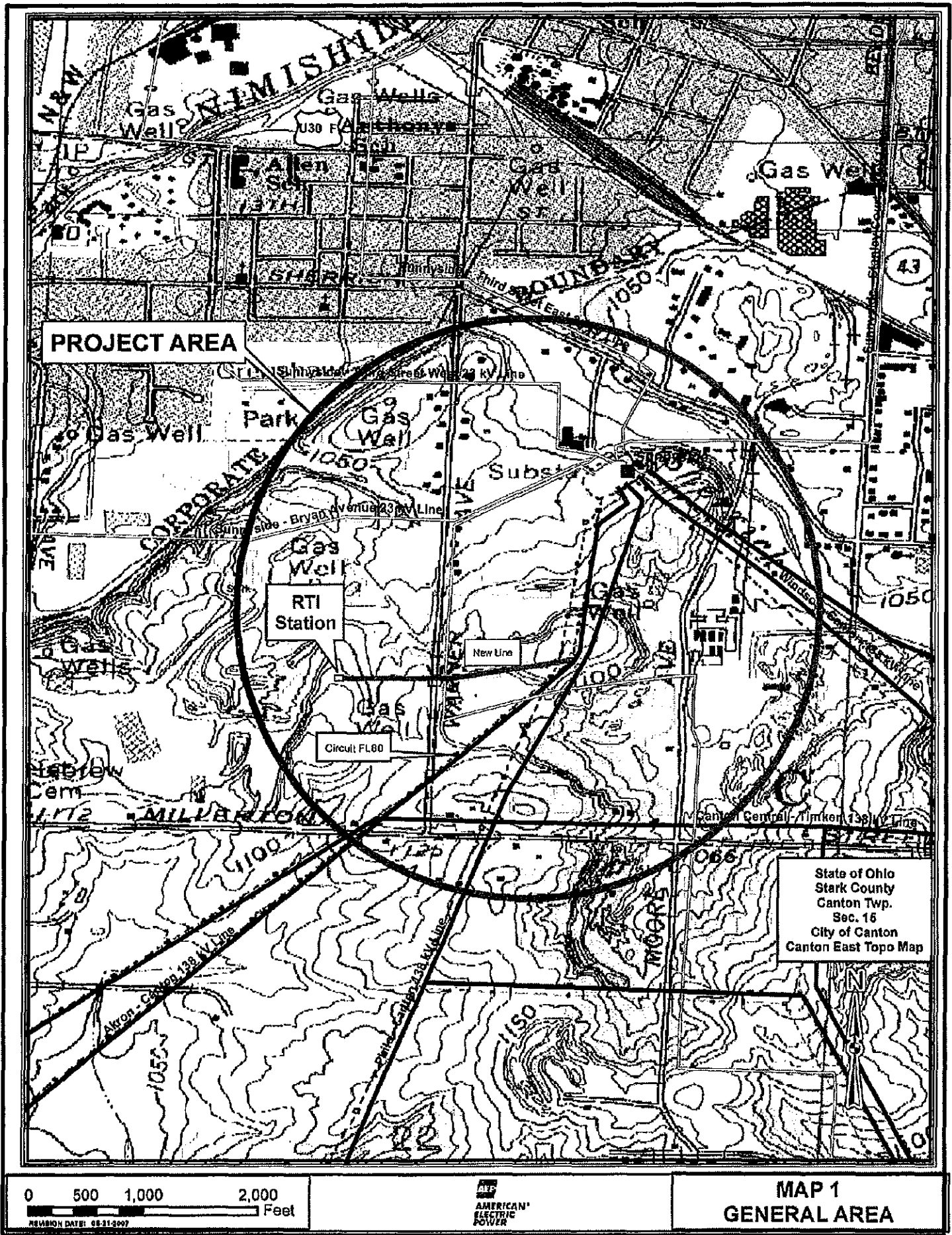
The Ohio Department of Natural Resources' Division of Natural Areas and Preserves were contacted regarding the presence of any areas of ecological concern. At the time of this filing, neither agency had reported anything of concern. The response received from the Ohio Department of Natural Resources indicated that the proposed transmission line area is not within the confines of any known wetlands, state or national forest or preserves, or floodplains.

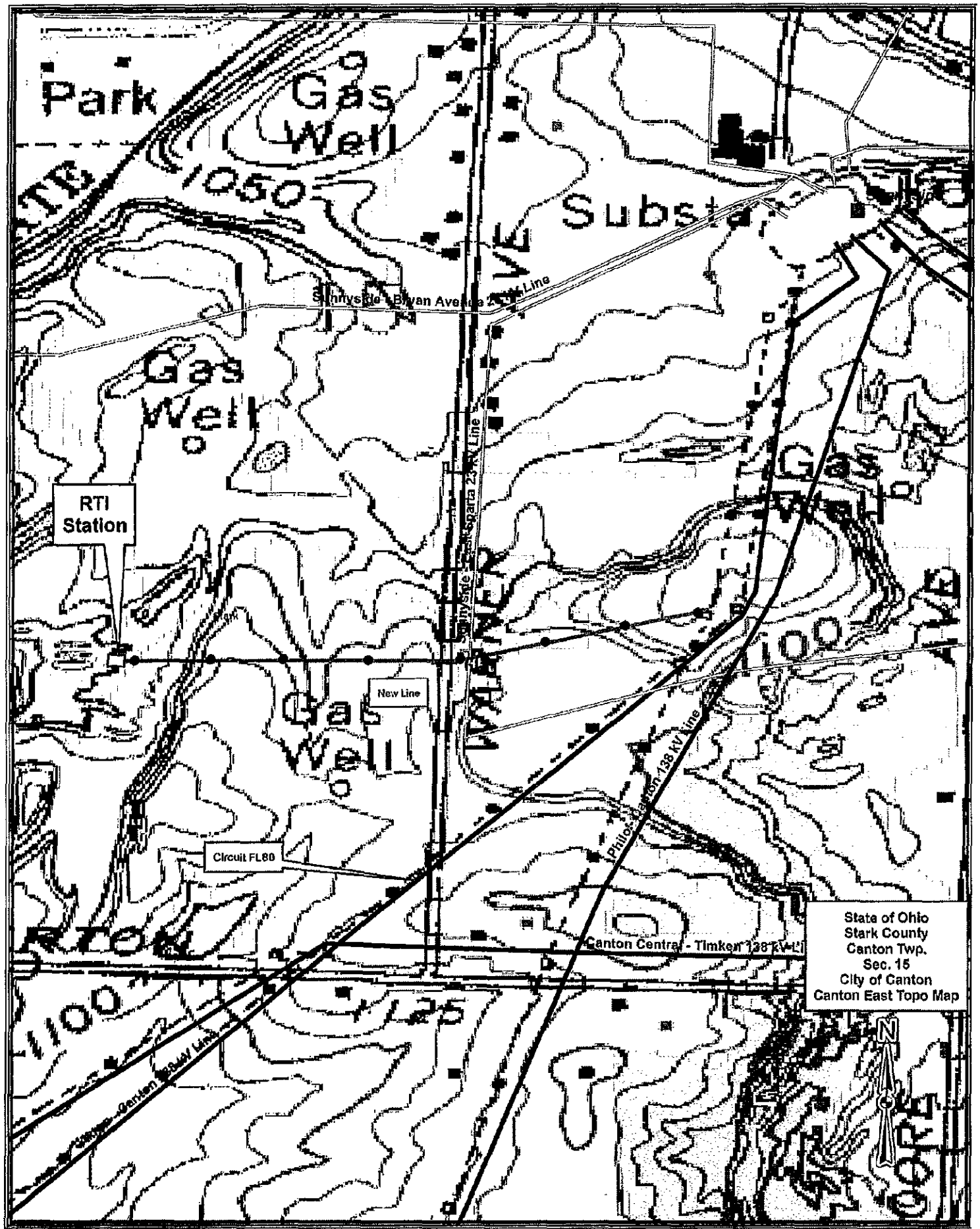
**4906-11-01 (D)(3) Additional Information**

For this project, all tall-growing woody vegetation (trees and saplings) present on the right-of-way will be cleared by cutting at ground level. Approximately 0.70 acres of wooded Right-of-Way will need to be cleared on the east side of Warner Road. Stumps will be selectively treated to prevent re-sprouting. In addition, specific danger trees will be removed from areas immediately adjacent to the right-of-way. Danger trees are those of such height that, in falling due to natural causes, have potential to contact the conductors or structures. Herbaceous vegetation, low-growing shrubs, and the stumps and roots of trees and shrubs will not be disturbed unless absolutely necessary. Existing access road will be utilized wherever possible. The construction of temporary access drives will be kept to a minimum. All disturbed areas will be and reseeded upon completion of construction.

**Appendix:**

**Maps, Figures & Correspondence**



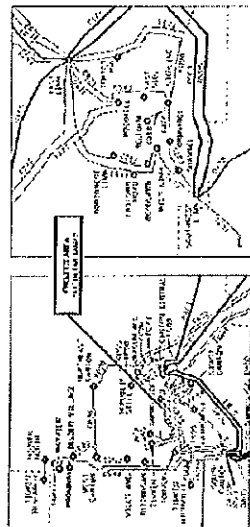


State of Ohio  
 Stark County  
 Canton Twp.  
 Sec. 15  
 City of Canton  
 Canton East Topo Map

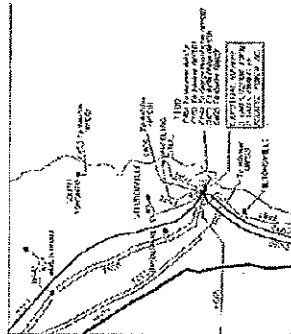
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 POWER

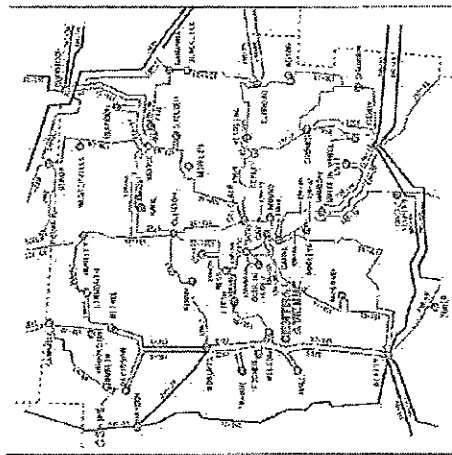
MAP 2



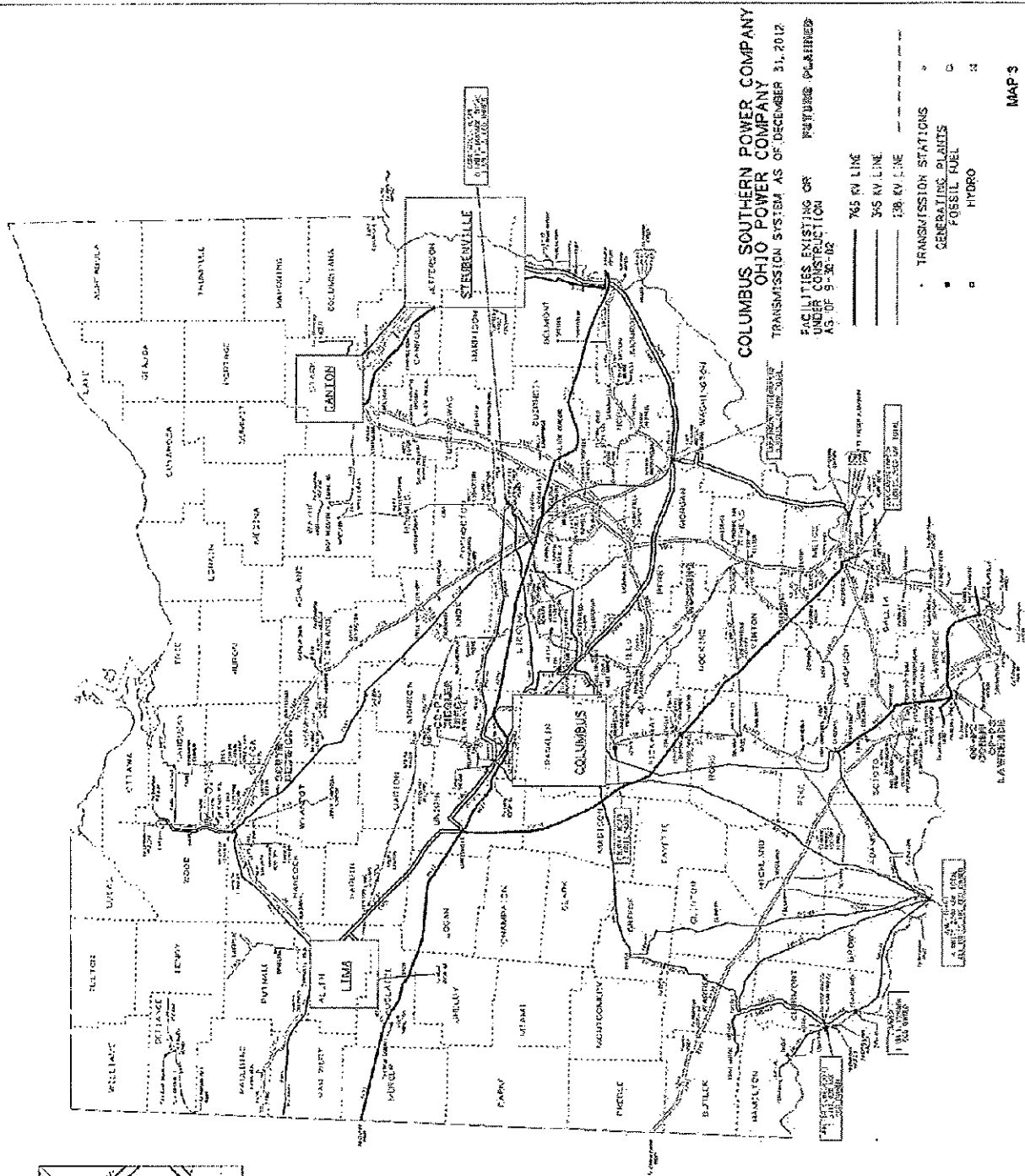
CANTON

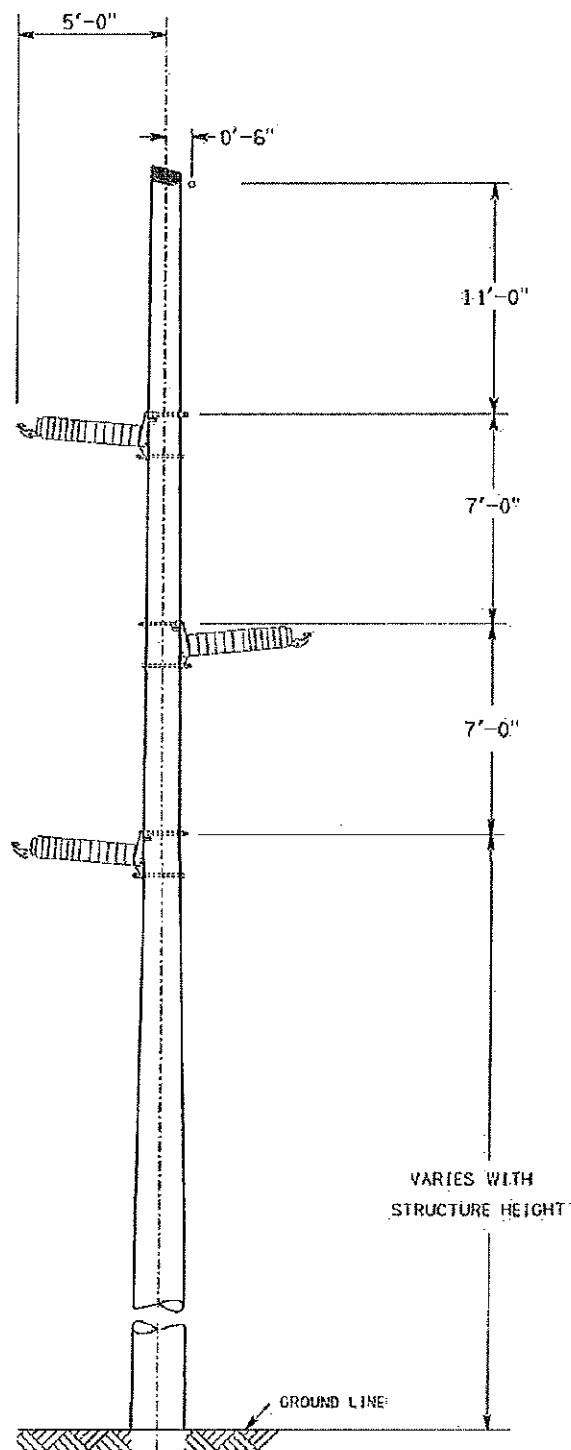


LIMA



STEUBENVILLE





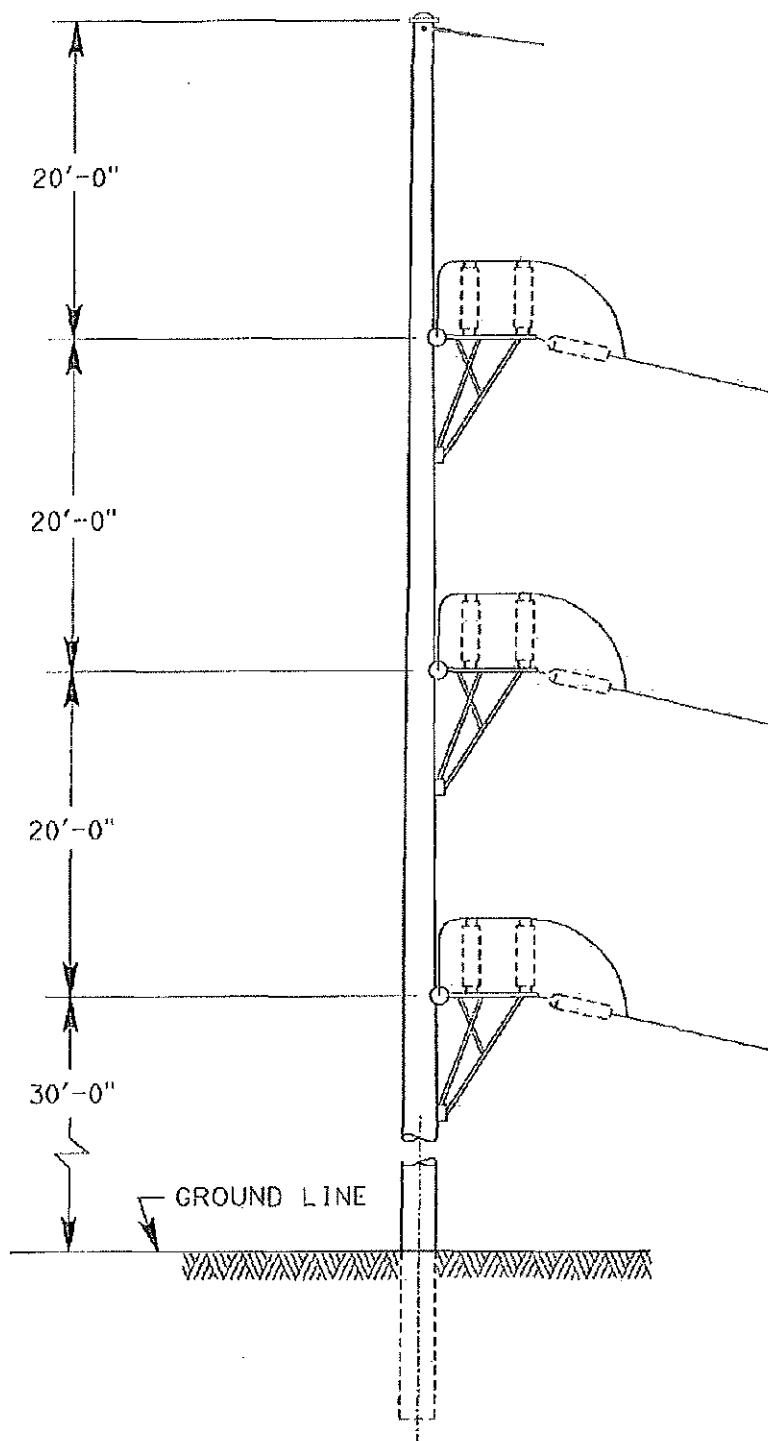
WARNER 138kV EXTENSION

SINGLE POLE  
TANGENT STRUCTURE

NOT TO SCALE

FIGURE 1





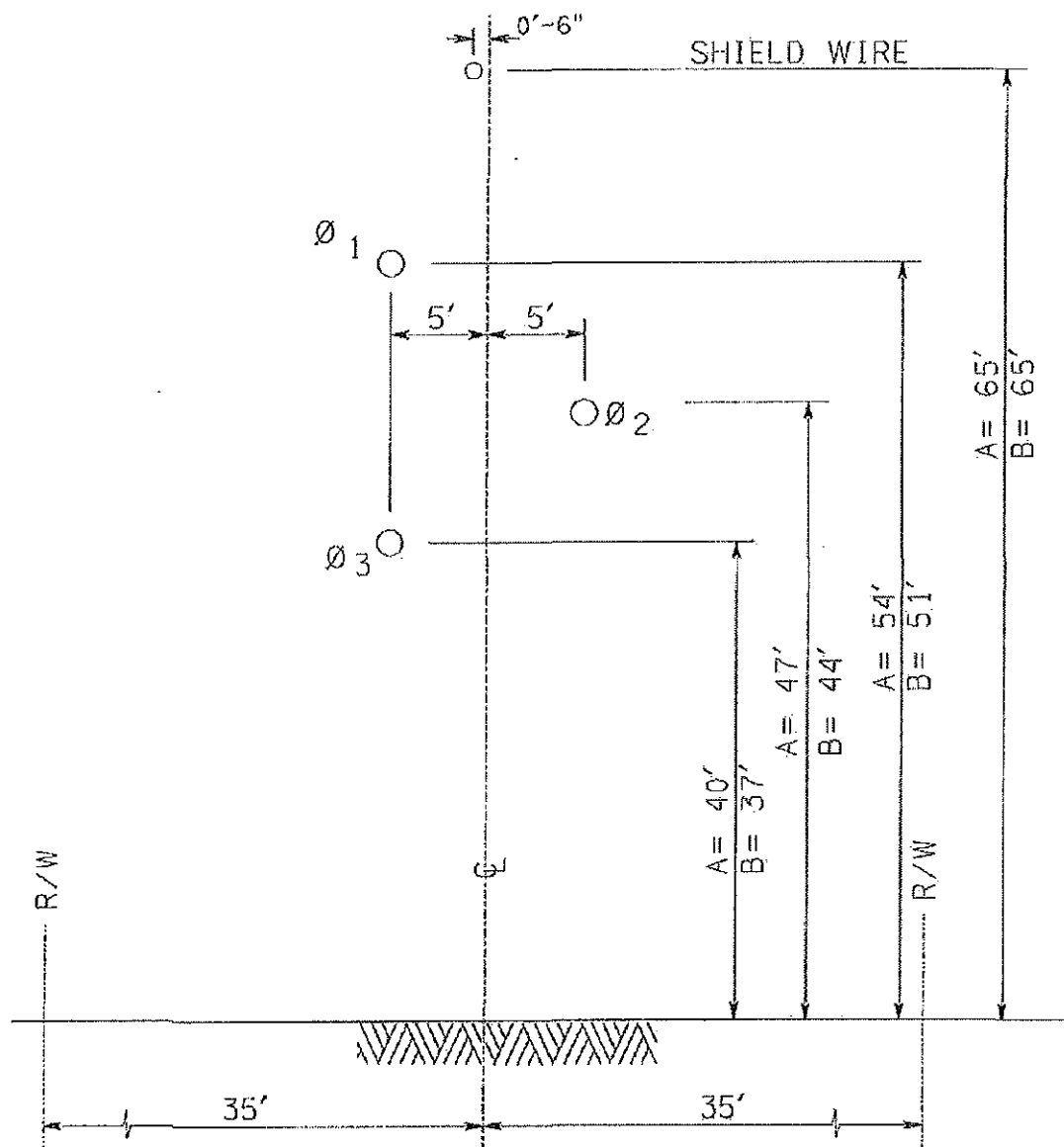
**AEP AMERICAN  
ELECTRIC  
POWER**

WARNER 138kV EXTENSION

SERVICE TO RTI  
POLE MOUNTED SWITCH

NOT TO SCALE

FIGURE 2



DIMENSION "A" LINE CONFIGURATION - 138KV UNDER EMERGENCY AND  
NORMAL MAXIMUM LINE LOADING CONDITIONS

DIMENSION "B" - UNDER WINTER NORMAL CONDUCTOR RATING CONDITIONS



WARNER 138kV EXTENSION

SINGLE POLE  
TANGENT STRUCTURE

NOT TO SCALE

FIGURE 3



## Ohio Department of Natural Resources

TED STRICKLAND, GOVERNOR

SEAN D. LOGAN, DIRECTOR

Division of Natural Areas and Preserves  
Steven D. Maurer, Chief  
2045 Morse Rd., Bldg. F-1  
Columbus, OH 43229-6693  
Phone: (614) 265-6463; Fax: (614) 267-3096

July 2, 2007

Tony Purses  
American Electric Power  
700 Morrison Rd.  
Gahanna, OH 43230

Dear M

After reviewing our Natural Heritage maps and files, I find the Division of Natural Areas and Preserves has no records of rare or endangered species in the AEP-Warner 138 kV Extension project area, including a half mile radius, in section 15 of Canton Township, Stark County, and on the Canton East Quad.

There are no existing or proposed state nature preserves or scenic rivers at the project site. We are also unaware of any unique ecological sites, geologic features, animal assemblages or state parks, forests or wildlife areas within a half mile radius of the project area.

Our inventory program has not completely surveyed Ohio and relies on information supplied by many individuals and organizations. Therefore, a lack of records for any particular area is not a statement that rare species or unique features are absent from that area. Please note that although we inventory all types of plant communities, we only maintain records on the highest quality areas. Also, we do not have data for all Ohio wetlands. For National Wetlands Inventory maps, please contact Madge Fitak in the Division of Geological Survey at 614-265-6676.

Please contact me at 614-265-6818 if I can be of further assistance.

Sincerely,

A handwritten signature in cursive script, appearing to read "Debbie Woischke".

Debbie Woischke, Ecological Analyst  
Natural Heritage Program





American Electric Power  
700 Morrison Road  
Gahanna, OH 43230

July 12, 2007

United States Department of the Interior  
Fish and Wildlife Service  
Reynoldsburg Field Office  
6950-H American Parkway  
Reynoldsburg, Ohio 43068-4127

Dear Dr. Knapp:

American Electric Power is planning to build a short 138KV transmission line to serve a proposed distribution station. RTI, a local titanium manufacturer, has requested new 138kV service from AEP. To serve this facility AEP must construct 1,800' of transmission line, located in the State of Ohio, Stark County, Canton Township (USGS Canton, Ohio East Quad sheet). The project area can be found at Latitude 40.776° and Longitude 81.359°.

In accordance with the State of Ohio Power Siting Board's rules and regulations, we are preparing a Letter of Notification covering this project. One of these rules requires that we investigate for the presence of any endangered, threatened, or rare species, which may be affected by this project.

In order for us to properly complete this investigation we need your assistance. We request that you study the project area, and inform us concerning any endangered, threatened or rare species. The project area starts on a hill in an industrial area just west of Moore Avenue, and continues west (across Warner Avenue) approximately 635' along RTI's building to the back of the property where the station will be located. RTI owns the property west of Warner Avenue on which the line will be located. A USGS topographic map, showing the location of this line and photographs along the proposed centerline are enclosed for your use.

In order to meet RTI's requested service date of November 16, 2007, AEP must begin clearing around October 15, 2007. This work should take about 2 weeks and will involve approximately 1.6 acres.

Please feel free to contact me at (614) 552-1183 if you require further information. Thank you for your consideration in this matter.

Cordially,

A handwritten signature in cursive script that reads 'Tony Purses'.

Tony Purses  
Transmission Line Projects Engineering  
ajpurses@AEP.com



American Electric Power  
700 Morrison Road  
Gahanna, OH 43230

July 16, 2007

Stark County Commissioners  
Todd Bosley  
Tom Harmon  
Jane Vignos  
110 Central Plaza South  
Canton, Ohio 44702

**Letter of Notification  
Service to RTI  
Transmission Line Project**

Dear Commissioners,

In accordance with Chapter 4906 of the Ohio Administrative Code, the Ohio Powers Company is required to submit a Letter of Notification to the State of Ohio Power Siting Board whenever a substantial change is made to our transmission facilities.

This project involves constructing two 0.3 mile long, single circuit 138 kV transmission lines in Canton Township, Stark County to provide service to a proposed electric distribution station owned by RTI.

In compliance with Rule 4906-15-08 of the OPSB Rules and Regulations, we have prepared and filed the attached Letter of Notification. This Notification contains details on the line location, structure types and construction schedule, and is hereby submitted for your information.

Cordially,

A handwritten signature in black ink that reads 'Tony Purses'.

Tony Purses  
Transmission Line Projects Engineering

enc.

c: Power Siting Board



American Electric Power  
700 Morrison Road  
Gahanna, OH 43230

July 16, 2007

Mayor City of Canton  
Janet Weir Creighton  
218 Cleveland Ave. SW  
Canton, Ohio 44702

**Letter of Notification  
Service to RTI  
Transmission Line Project**

Dear Mayor,

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Cordially,

A handwritten signature in black ink, reading 'Tony Pursas', is written over the printed name.

Tony Pursas  
Transmission Line Projects Engineering

enc.

c: Power Siting Board