



Legal Department

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

PUCO

May 22, 2008

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

08 622-EL-BLN

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

Re: **Letter of Notification**, Bixby-Corridor 345kV
–Service to Jug Street Station

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 Letter of Notification to the political subdivisions immediately affected by the proposed project. Specifically, copies of the Letter of Notification have been sent to the Licking County Commissioners and the Jersey Township Trustees. The cover letter accompanying these mailings is included in the Letter of Notification Appendix.

Respectfully Submitted,

Steven T. Nourse
Senior Attorney
American Electric Power Service
Corporation
1 Riverside Plaza, 29th Floor
Columbus, Ohio 43215
Telephone: (614) 716-1608
Facsimile: (614) 717-2950
E-mail: stnourse@aep.com

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Technician TM Date Processed 5/22/2008

Letter of Notification

for the

Bixby-Corridor 345 kV Line

Service to Jug Street Station

Submitted by

Columbus Southern Power Company

to

The State of Ohio Power Siting Board

May 2008

LETTER OF NOTIFICATION

In accordance with Ohio Administrative Code Section 4906-11-01, Letter of Notification requirements, Columbus Southern Power Company submits the following.

49016-11-01 (A) Need Statement

(1)(a) Name of Project

The name of this project is the Bixby-Corridor 345kV Line service to Jug Street Station. This project is not identified in Columbus Southern Power's and Ohio Power's latest Long Term Forecast.

(1)(b) Description of this Project

This project involves tapping the existing Bixby-Corridor 345kV Line and installing approximately 175 feet of new 345kV transmission line to serve a proposed distribution station. The existing circuit to be tapped is the Corridor - Kirk 345 kV Circuit.

(1)(c) Need for this Project

New commercial and residential development in Licking County is causing increased electrical load growth in the area. The existing electrical distribution system is reaching its capacity and creating the need for an additional 345kV/12kV distribution station in the area. Jug Street distribution station is being constructed in the middle of this development area to relieve existing transmission and distribution overloads and provide capacity for future load growth.

(1)(d) Reasons this Project Meets the Letter of Notification Requirements

This project meets the criteria for a Letter of Notification because the extent of the project is defined by Item (1)(a) of Appendix A " Application Requirement Matrix for Electric Power

Transmission Lines. This project consists of constructing a line that is greater than 300 kV and not greater than 1 mile in length.

(2) Projection Location Relative to Existing or Proposed Lines

The proposed 345kV project area has been identified on "Map 1" (see Appendix). Map 3 is a copy of Columbus Southern Power and Ohio Power's Transmission System as of December 31, 2012, as submitted to the Public Utility Commission of Ohio in our latest Long-Term Forecast Report. A detailed site is shown in "Map 2" (see Appendix).

(3) Alternatives Considered

The location of the Jug Street distribution station was selected to be adjacent to the existing 345kV transmission line. No other alternatives were considered.

(4) Anticipated Construction Schedule

Construction of this transmission line project is expected to begin in October 2008 with installation of the tap pole foundations. The installation of the tap structures and stringing of the conductor into the station bay is expected to be completed in the fall of 2009.

(5) Maps Depicting Project Location

The project is located in Jersey Township, Licking County, Ohio. Map 1 has been prepared to show the general project site location (see Appendix).

To view the project go east on OH-161 to Beech Street. Travel north on Beech Street until reaching Jug Street. Travel east on Jug Street. The project area is located on the south side of Jug Street approximately 1 mile from Beech Street.

49016-11-01 (B) Technical Features

(1) Number and Type of Structures

The existing Bixby – Corridor 345 kV line is a single 345 kV circuit supported on double wood pole structures. To tap this line, two steel tap structures (see Figure 1 in the Appendix) will be installed. The line currently contains three 2-bundled 954,000 ACSR (45/7) conductors, one OPGW overhead ground wire, and one 3/8in EHS overhead ground wire. No easements are needed because the new structures are being located on the station site.

(2) Calculated Electric and Magnetic Field Levels

Electric and Magnetic Fields During Operation

(a) Calculated Electric and Magnetic Field Levels

Line Loading & Rating

Circuit	Normal Maximum Loading	Emergency Loading	Winter Normal Conductor Rating
Corridor – Jug Street 345kV Circuit	3055 Amps	556 Amps	276 Amps
Jug Street – Kirk 345kv Circuit	3055 Amps	596 Amps	309 Amps

The electric and magnetic field levels for the proposed project were calculated for the conductor configuration as depicted by “Figure 3” (see Appendix).

Electric & Magnetic Field (EMF) Strength

Conductor Condition	Electric Field (kV/m)		Magnetic Field (mG)	
	Maximum Under Line	Edge of R.O.W.	Maximum Under Line	Edge of R.O.W.
Normal Maximum Loading	7.293	.304	59.98	6.01
Emergency Line Loading	7.293	.304	116.64	12.41
Winter Normal Conductor Rating	12.907	.554	1074.58	77.67

(b) Discussion of Design Alternatives

No other alternatives were considered.

(3) Estimated Capital Costs

The 2008 capital cost estimates for the proposed project have been tabulated by the Federal Energy Regulatory Commission (FERC) Electric Plant Transmission Accounts:

FERC Accounts	Estimated Capital Costs
355 Poles and Fixtures	\$131,560
356 Overhead Conductors and Devices	\$134,939
Total	\$266,499

49016-11-01 (C) Socioeconomic Data

(1) Land Use and Population Density

This project is located in Jersey Township, Licking County, Ohio. The surrounding area is primarily farms and home sites with scattered woodlots. Based upon the 2000 census, the project area has a population density of 212 people per square mile (area defined by zip code).

(2) Agricultural Land and Agricultural Districts

The proposed line is not within the limits of any agricultural land nor is it located within any Agricultural District as defined by Chapter 929 of the Ohio Revised Code.

(3) Investigation of Archeological and Cultural Resources

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

(4) Local Officials to be Notified and Public Information Program

Plans for the proposed distribution station have been submitted and approved by the Licking County Soil and Water Conservation Department and the Licking County Planning Department.

Copies of this Letter of Notification have been sent to the Licking County Commissioners and the Jersey Township Trustees. Copies of the cover letters to these officials are attached.

AEP has met with the adjacent landowners. The need for the project, type of construction and exact location of the proposed facilities has been discussed with them in detail.

(5) Current or Pending Litigation

There is no current litigation involving this project and none is expected.

(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, Columbus Southern Power design standards, and all applicable OSHA standards.

49016-11-01 (D) Environmental Data

(1) Endangered or Threatened Species

The Ohio Department of Natural Resources, Division of Natural Areas and Preserves was contacted regarding the presence of any endangered, threatened, or rare species that may be affected by this project. After review of the project area, no records of rare or endangered species, state nature preserves or scenic rivers, ecological sites, geologic features, animal assemblages, state parks, state forests or state wildlife areas were found within a one mile radius. A copy of the letter from ODNR is attached.

The United States Department of the Interior, Fish and Wildlife Service was contacted regarding the presence of any endangered, threatened, or rare species that may be affected by this project. After review of the project area, no records of endangered, threatened or rare species in the project area were found. A copy of the letter from the Department of the Interior is attached.

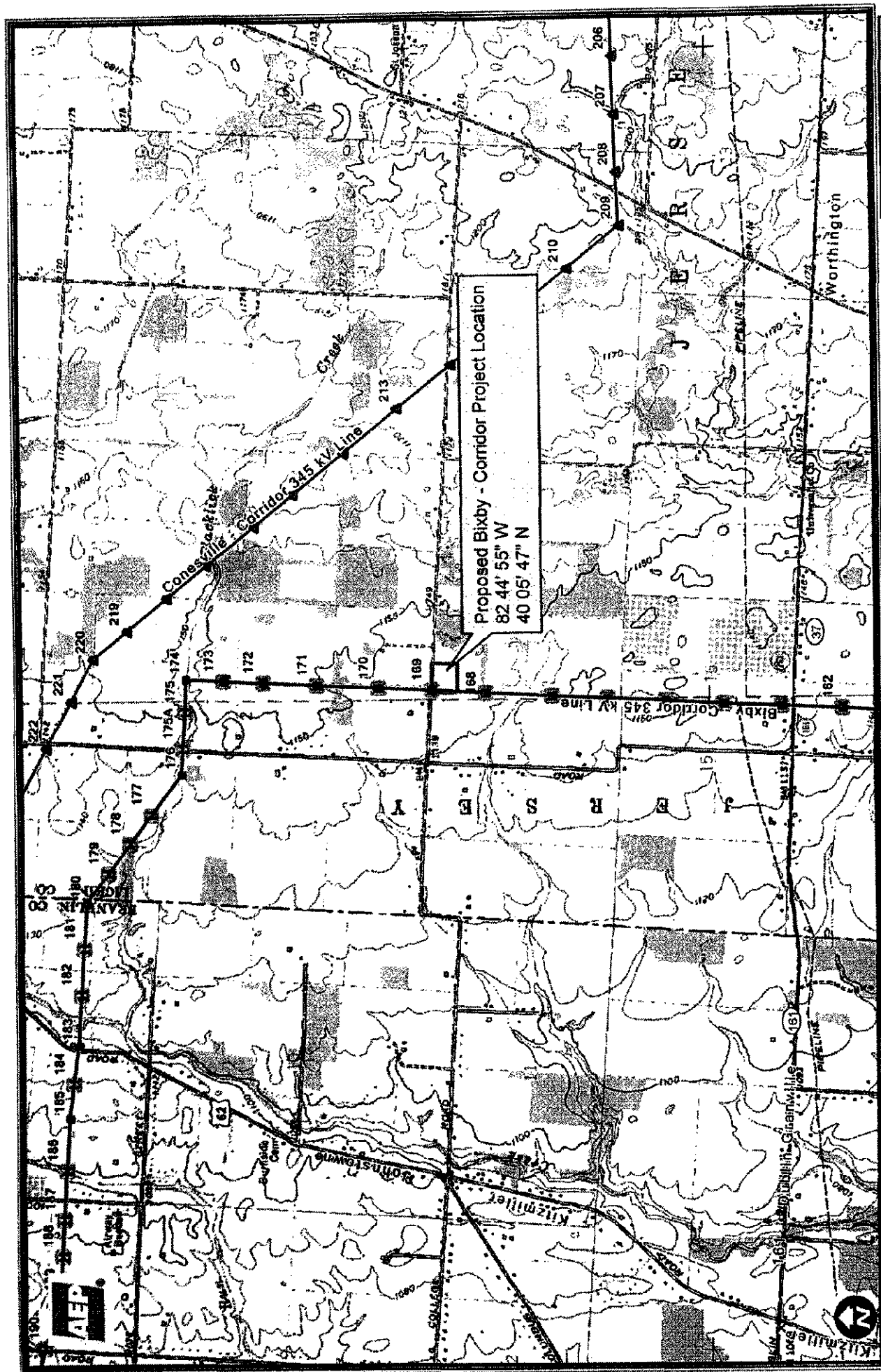
(2) Areas of Ecological Concern

There are no areas of ecological concerns within the project area.

(3) Additional Information

There are no unusual conditions that will cause significant environmental or social impacts from the installation and operation of this proposed transmission line tap.

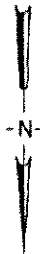
Appendix



BIXBY-CORRIDOR
345KV LINE
JRD STREET

GENERAL LOCATION MAP
USGS LICKING, OHIO QUAD

NOT TO SCALE MAP 1



STATE OF OHIO
LICKING COUNTY
JERSEY TWP.

PROPOSED
JUG STREET
DISTRIBUTION STATION

DEADEND STRUCTURE



EXISTING 345KV TRANSMISSION LINE

NEW TAP STRUCTURES

Str. 169

BIXBY-CORRIDOR
345KV LINE
TAP TO JUG ST.

AEP
AMERICAN
ELECTRIC
POWER

DETAIL SITE MAP

NOT TO SCALE

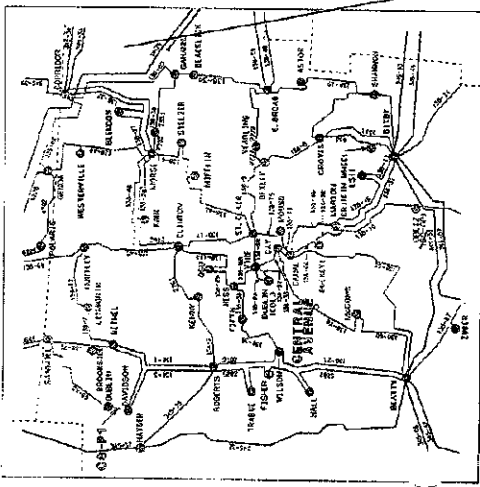
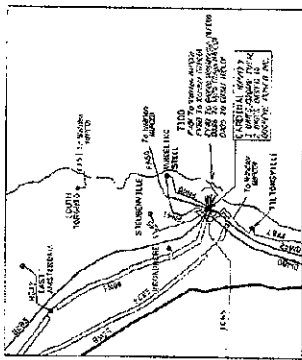
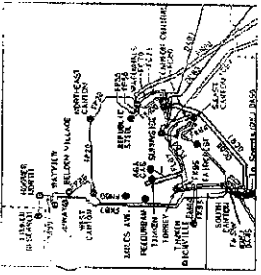
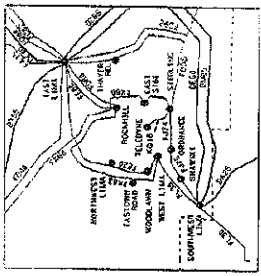
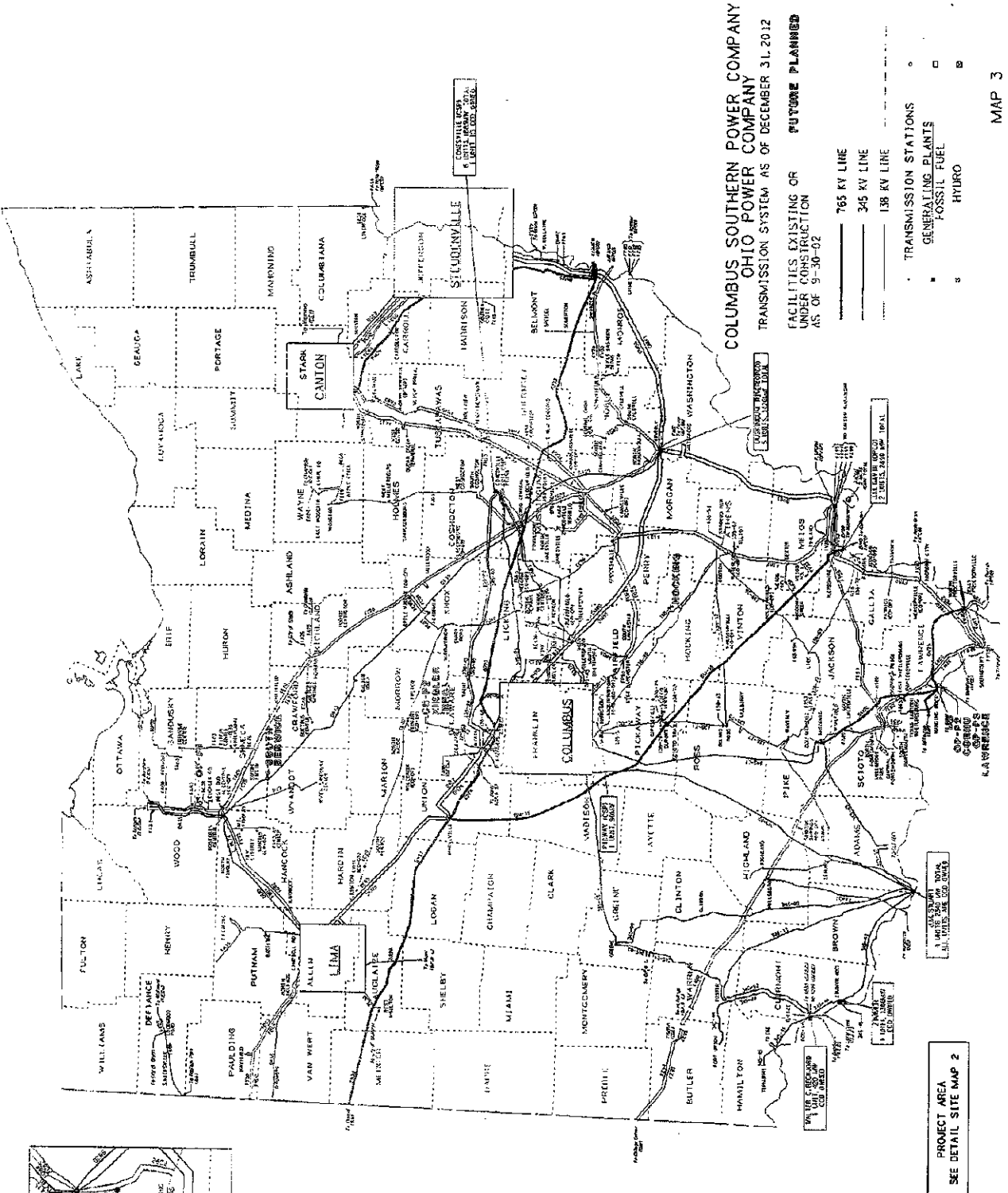
MAP 2

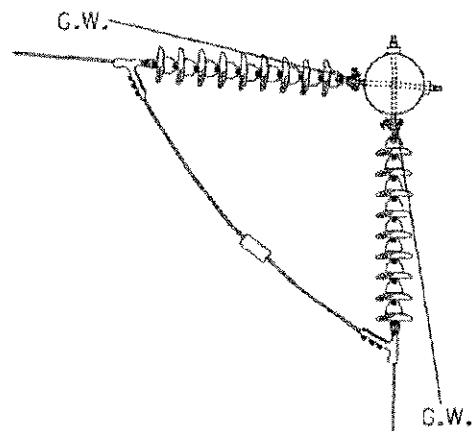
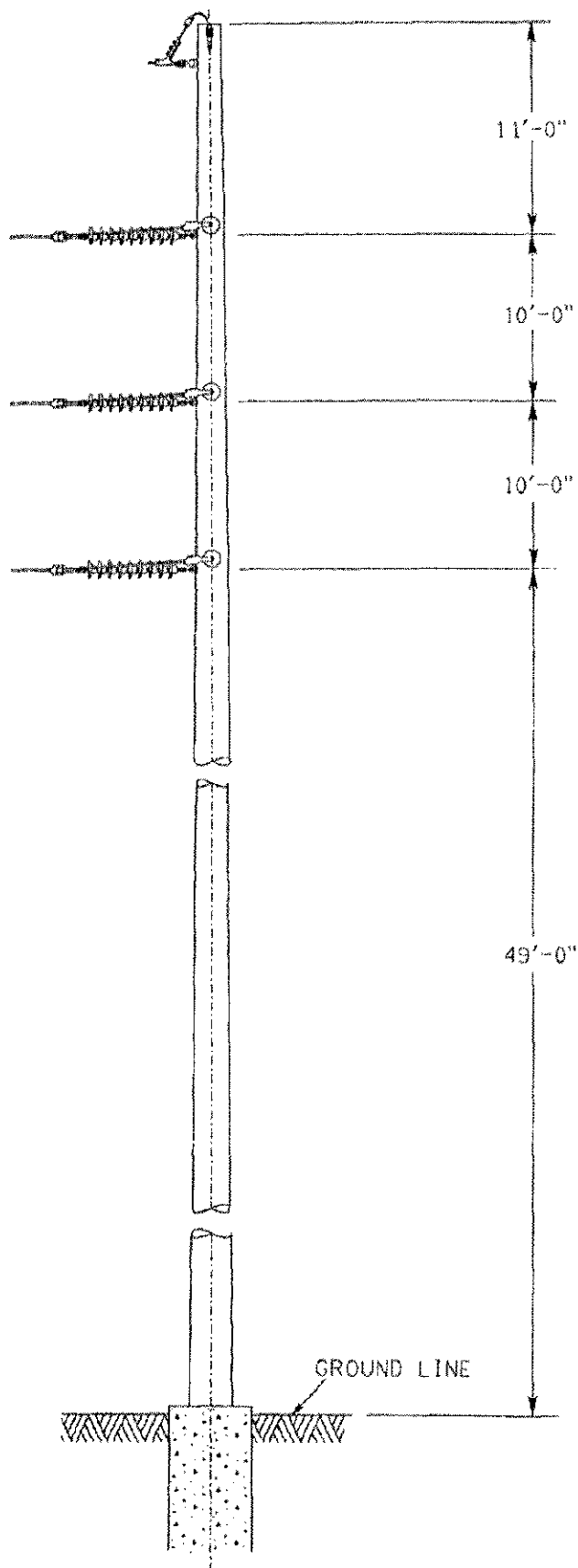
JUG STREET
60' WIDE

DRIVE

DRIVE

4" = 100' SCALE
PROPOSED PROPERTY LINE & NEW ROAD TO 100'





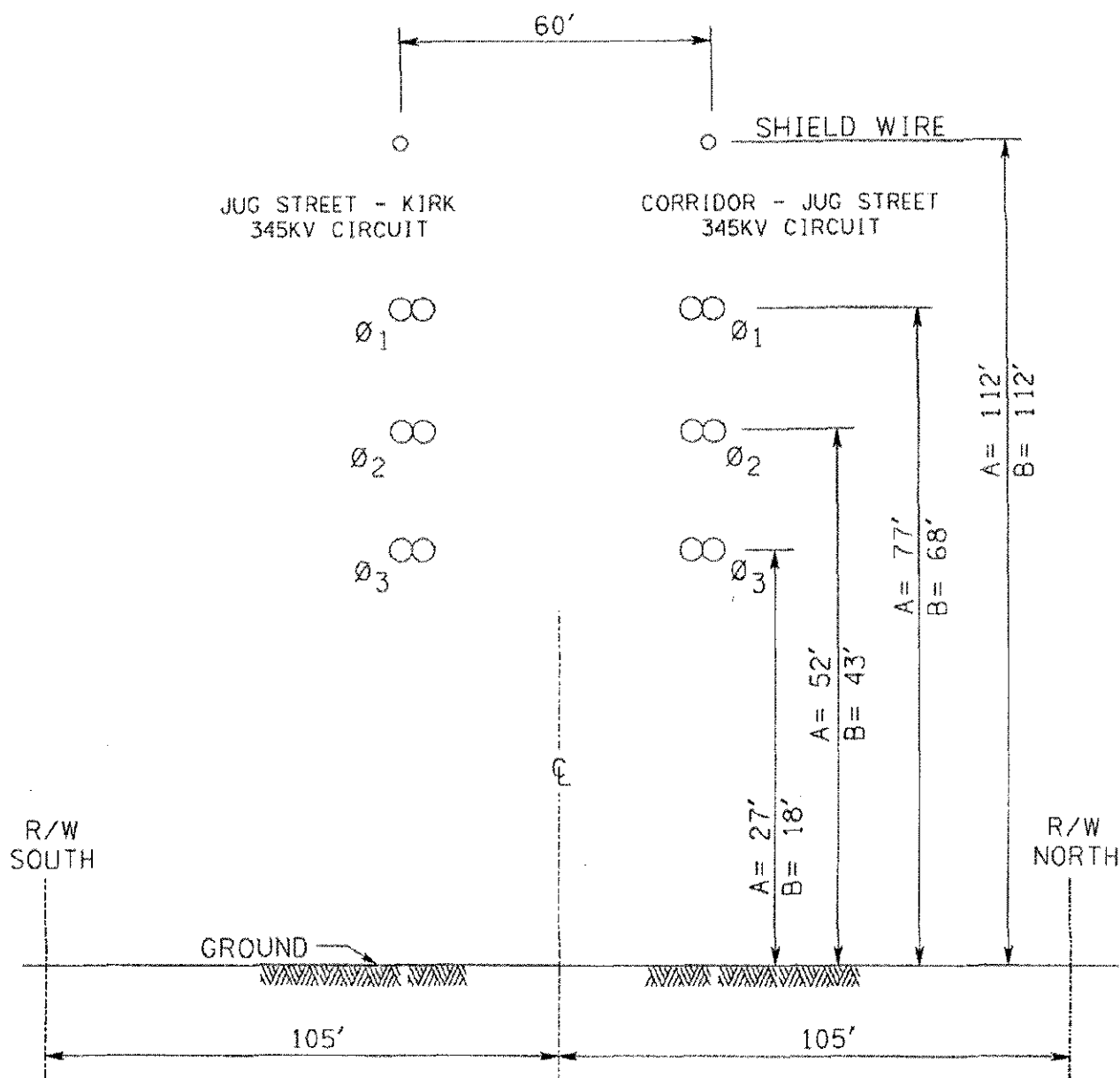
TOP VIEW

COLUMBUS SOUTHERN POWER CO.

BIXBY-CORRIDOR
345KV LINE
SINGLE POLE
TAP STRUCTURE
15-12(C)(6)

NOT TO SCALE

FIGURE 1



DIMENSION "A" - DOUBLE CIRCUIT - VERT. CONFIGURATION (UNDER EMERGENCY & NORMAL MAX. LINE LOADING)

DIMENSION "B" - DOUBLE CIRCUIT - VERT. CONFIGURATION (UNDER WINTER NORMAL CONDUCTOR RATING)



American Electric Power
700 Morrison Road
Gahanna, OH 43230

March 24, 2008

Licking County Commissioners
Tim Bubb
Doug Smith
Mark A. Van Buren
The Donald D. Hill County Administration Building
20 South Second Street
Newark, Ohio 43055

**Letter of Notification
Bixby - Corridor 345kV Line
Service to Jug Street Distribution Station**

Dear Commissioners:

In accordance with Chapter 4906 of the Ohio Administrative Code, the Ohio Power 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.

American Electric Power is planning to install a tap structure to serve the proposed Jug Street distribution station in Jersey Township, Licking County, Ohio.

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 submitted for your information.

Cordially,

A handwritten signature in cursive script that reads 'Ellen Regennitter'.

Ellen Regennitter
Transmission Line Projects Engineering



American Electric Power
700 Morrison Road
Gahanna, OH 43230

March 24, 2008

Jersey Township Trustees
1481 Mink Street
Johnstown, OH 43031

**Letter of Notification
Bixby-Corridor 345kV Line
Service to Jug Street Distribution Station**

Dear Trustees:

In accordance with Chapter 4906 of the Ohio Administrative Code, the Ohio Power 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.

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A handwritten signature in cursive script that reads 'Ellen Regennitter'.

Ellen Regennitter
Transmission Line Projects Engineering



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) 265-6453; Fax: (614) 267-3096

April 11, 2008

Ellen Regennitter
American Electric Power
700 Tech Center Dr.
Gahanna, OH 43230

Dear Ms. Regennitter:

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 Bixby-Corridor 345 kV Line Tap to Jug Street Creek Distribution Station project area, including a one mile radius, at Jug and Beech Sts. in Jersey Township, Licking County, and on the Jersey Quad (26808).

There are no state nature preserves or scenic rivers at the project site. We are also unaware of any unique ecological sites, geologic features, animal assemblages, state parks, state forests or state wildlife areas within a one 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. Although we inventory all types of plant communities, we only maintain records on the highest quality areas.

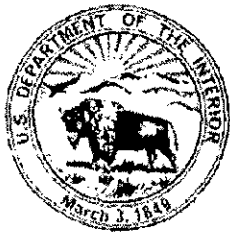
Please contact me at 614-265-6818 if I can be of further assistance.

Sincerely,

A handwritten signature in cursive script, reading "Debbie Woischke".

Debbie Woischke, Ecological Analyst
Natural Heritage Program





United States Department of the Interior

FISH AND WILDLIFE SERVICE

Ecological Services
6950 Americana Parkway, Suite H
Reynoldsburg, Ohio 43068-4132
614-469-6923 / FAX 614-469-6919
May 2, 2008

Ellen Regennitter
American Electric Power
700 Morrison Road
Gahanna, OH 43230

Tails: 2008-TA-0564

Re: Jug Street Transmission Line

Dear Ms. Regennitter:

We have received your recent correspondence requesting information about the subject proposal. Due to declining budgets, smaller staffs, and competing priorities, we are unable to respond to all requests for technical assistance at this time. Without a thorough review of the project, it would be impossible to accurately assess the potential effects.

As an alternative, we encourage you to visit the Service's Region 3 Section 7 Technical Assistance website at <http://www.fws.gov/midwest/endangered/section7/s7process>. There you will find guidance to assist you in fulfilling the requirements for consultation under Section 7 of the Endangered Species Act, including a step-by-step explanation of the section 7 process, species distribution lists, species life history information and conservation measures, and examples of typical letters.

If you have additional questions or require further assistance with your project proposal, please contact me at the following number (614) 469-6923 x12. I would be happy to discuss the project in further detail with you and provide additional assistance if necessary. In addition, you can find more information on natural resources in Ohio by visiting our homepage at: <http://www.fws.gov/midwest/Reynoldsburg>.

Sincerely,

Mary Knapp, Ph.D.
Field Supervisor