

FILE

V & M STAR

LETTER OF NOTIFICATION

**PRIMARY METERING STATION TO PIPE MILL
METERING STATION TRANSMISSION LINE
FOR V & M STAR TOMAHAWK EXPANSION PROJECT**

OPSB CASE NO.: 09-1827-EL-BLN

December 1, 2009

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PUCO

**V & M Star
2669 M. Luther King Jr. Blvd.
Youngstown, Ohio 44510**

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Technician SM Date Processed DEC 02 2009

**LETTER OF NOTIFICATION
V&M STAR TOMAHAWK EXPANSION PROJECT
138 kV TRANSMISSION LINE**

The following information is being provided in accordance with the procedures delineated in Ohio Administrative Code Section 4906-11-01: Letter of Notification Requirements of the Rules and Regulations of the Ohio Power Siting Board.

4906-11-01 (B): General Information

4906-11-01 (B) (1) (a): Name and Reference Number

Name of Project: Tomahawk Expansion Project – 138 kV Transmission Line from New Primary Metering Station to New Pipe Mill Metering Station.

4906-11-01 (B) (1) (b): Brief Description of Project

V&M Star (“V&M”) has under consideration an approximately \$710 million expansion of its current facilities in Youngstown, Ohio. The expansion is generally known as the Tomahawk Expansion Project (“Tomahawk Expansion”). The Public Utilities Commission of Ohio (“PUCO”) in Case No. 09-80-EL-AEC approved a reasonable arrangement for V&M related to the Tomahawk Expansion in March 2009. Additional background regarding the Tomahawk Expansion can be found on the PUCO website in Case No. 09-80-EL-AEC.

This Letter of Notification is being filed in conjunction with two additional Letters of Notification related to new transmission lines that will be installed if the Tomahawk Expansion moves forward. In this particular Letter of Notification, V&M is proposing to install and own an approximately 3,432 foot long, electric transmission line from a new primary metering station to a new metering station for its new pipe mill (hereinafter called “Project”). The Project is necessary in order to provide power to the new pipe mill that will be constructed if the Tomahawk Expansion moves forward.

The Project will largely utilize existing towers to connect the new primary metering station and the new pipe mill metering station. Two new corner dead end poles and

one inline dead end pole will also be constructed as part of the Project. V&M will own the new transmission line and the metering stations.

The Project area is located northwest of the intersection of US 422 and SR 711, in the City of Youngstown, Mahoning County, Ohio and the City of Girard, Trumbull County, Ohio. The general location of the Project is shown in Exhibit 1, which is a partial copy of the United States Geologic Survey, Mahoning County Ohio Quad Map, ID number 41080-A6. Exhibit 2 shows the general layout of the proposed Project.

4906-11-01 (B) (1) (c): Why the Project Meets the Requirements for a Letter of Notification

The Project meets the requirements for a Letter of Notification because the Project is within the types of projects defined by Items (1)(e) and (6)(a) of the Application Requirement Matrix for Electric Power Transmission Lines in Appendix A of Rule 4906-1-01 of the Ohio Administrative Code. These items state:

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

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

(6) Upgrading existing line(s) less than one hundred twenty-five kV to a voltage of one hundred twenty-five kV or greater, for a distance of:

(a) Two miles or less.

The proposed Project includes installing one single-circuit 138 kV transmission line that is approximately 3,432 foot long (0.65 miles) and therefore qualifies as a Letter of Notification project.

4906-11-01 (B) (2): Need for the Project

As explained above, the proposed Project is required to provide power to the new pipe mill that V&M may build as part of its proposed Tomahawk Expansion.

V&M's proposed expansion would allow it to increase its production capacity of seamless pipe and other tubular goods to serve its customers.

4906-11-01 (B) (3): Location Relative to Existing or Proposed Lines

Reference to long-term forecast report mapping is not applicable as no such recent long-term forecast report is required or exists.

4906-11-01 (B) (4): Alternatives Considered

V&M looked at several different routes on V&M's property for the Project and concluded the chosen path is the most economical inasmuch as it utilizes an existing route and existing towers.

4906-11-01 (B) (5): Construction Schedule

Construction on the Project is expected to begin in January 2011 and conclude by March 2011 with an in-service date of March 2011.

4906-11-01 (B) (6): Area Map

Exhibit No. 1 is a map depicting the general location of the project site. To locate and view the project site from the Columbus, Ohio area, travel north on I-71 for approximately 100 miles. Take exit 209 to merge onto I-76 E/US-224 E towards Akron approximately 18.4 miles. Take the exit onto I-76 E towards Akron for approximately 1.7 miles. Take the exit onto I-76 E/I-77 S towards Akron and continue for approximately 40.1 miles. Continue on I-80 E for approximately 4.5 miles. Then continue on I-680 S for about 2.8 miles and take exit 3A to merge onto OH-711 E towards Martin Luther King Blvd for approximately 1.3 miles. Take the US-422 exit towards Youngstown/Girard for 0.3 miles and turn right at Martin Luther King Jr. Blvd/US-422 and arrive at 2669 Martin Luther King Jr. Blvd.

4906-11-01 (B) (7): Property Owner List

The land for this Project is owned by the State of Ohio and is leased back to V&M. All necessary easements for the Project have already been obtained.

4906-11-01 (C): Technical Features

4906-11-01 (C) (1): Operating Characteristics

The new transmission line tap will be designed and constructed for 138 kV operation. The transmission line tap has the following characteristics:

- Voltage: 138 kV
- Conductor: 795.4 kcmil 26/7 ACSR - DRAKE
- Ground Wire: ½" EHS Steel
- Insulators: Polymer Suspension
- Structure types: Exhibit No. 3 – Tangent Structure 0 – 7 Deg
Exhibit No. 4 – Inline Deadend Structure 0 Deg
Exhibit No. 5 – Deadend Structure 60 – 90 Deg

A transmission line corridor width of 60' will be used for the EMF Analysis.

4906-11-01 (C) (2) (a): Calculated Electric and Magnetic Fields ("EMF")

The following table itemizes the line loading of the transmission line tap being installed in the proposed Project. The normal line loading of 336 amps and emergency line loading of 420 amps is based on the maximum load to be served to the customer owned metering station. The winter rating is based on the continuous maximum conductor ratings ("MCR") of the circuits for an ambient temperature of zero degrees centigrade (32 deg. F), wind speed of 1.3 miles per hour, and a circuit design operating temperature of 100 degrees centigrade (212 deg. F).

Line Name	Normal Loading Amps	Emergency Loading Amps	Winter Rating Amps
138 kV Transmission Line Tap to Pipe Mill Sub	336	420	1370

The following EMF calculations were performed using the ENVIRO program software. This program provides calculations for conductor surface gradients, electric field, magnetic field, and audible noise.

The 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 circuits.

EMF CALCULATIONS		Electric Field kV/meter	Magnetic Field mGauss
Normal Loading	Under Lowest Conductors	0.41	13.44
	At Right-of-Way Edges	0.41/0.22	11.71/10.86
Emergency Loading	Under Lowest Conductors	0.41	16.79
	At Right-of-Way Edges	0.41/0.22	14.64/13.57
Winter Rating	Under Lowest Conductors	0.41	54.78
	At Right-of-Way Edges	0.41/0.22	47.75/44.27

4906-11-01 (C) (2) (b): Electric and Magnetic Fields Discussion

Background Information

EMFs are naturally occurring in the environment and can be found in the Earth's interior and in the human body. EMFs are generated essentially anywhere there is a flow of electricity, including electrical appliances and power equipment. Electric fields are associated with the voltage of the source; magnetic fields are associated with the flow of current in a wire. The strength of these fields decreases rapidly with distance from the source. EMFs associated with electricity use are not disruptive to cells like x-rays or ultraviolet rays from the sun. These fields are thought to be too weak to break molecules or chemical bonds in cells. Extensive research has been conducted over the past three decades to determine whether EMFs are associated with adverse health effects. A number of independent scientific panels have reviewed the research and have stated that there is no basis to conclude that EMFs cause adverse health effects, nor has it been shown that levels in everyday life are harmful.

As a part of the National Energy Policy Act of 1992, the Electric and Magnetic Fields Research and Public Information Dissemination ("EMF RAPID") program was initiated within the five-year effort under the National EMF Research Program. The culmination of this five-year effort resulted in a final RAPID Working Group report, which was released for public review in August 1998. The Director of the National Institutes of Environmental Health Sciences ("NIEHS") then prepared a final report to Congress after receiving public comments.

The NIEHS' Director's final report, released to Congress on May 4, 1999, concluded that extremely low frequency electric and magnetic fields ("ELF-EMF") exposure cannot be recognized at this time as entirely safe because of weak scientific evidence that exposure may pose a leukemia hazard. The Director further stated that the conclusion of this report is insufficient to warrant aggressive regulatory concern.

Sources for Additional Information

The following websites sponsored by federal agencies or other organizations provide additional information on EMF:

- Centers for Disease Control/National Institute for Occupational Safety and Health: <http://www.cdc.gov/niosh/topics/emf/>
- National Institute of Environmental Health Sciences ("NIEHS") EMF Rapid Program: <http://www.niehs.nih.gov/emfrapid/home.htm>

4906-11-01 (C) (3): Estimated Costs

The estimated capital costs for the proposed Project are:

Land Rights	\$ 0
Poles and Fixtures	\$188,434
Overhead Conductors & Devices	\$ 52,210
Removal	\$ 15,000
<hr/>	
Total	\$255,644

4906-11-01 (D): Socioeconomic Data

4906-11-01 (D) (1): Land Use

The Project is located in an industrial area and neighboring land use in the area of the Project is industrial. Based on the U.S. Bureau of Census estimates, the 2008 population of Youngstown was estimated at 72,925 and the 2008 population of Mahoning County was estimated at 237,978. Based on the U.S. Bureau of Census estimates, the 2008 population of Girard was estimated at 10,069 and the 2008 population of Trumbull County was estimated at 211,317.

4906-11-01 (D) (2): Agricultural Land

The Project will not impact agricultural land use. There will be no structures in agricultural land.

4906-11-01 (D) (3): Archaeological or Cultural Resources

There are no archaeological or cultural resources impacted by the Project. The Office of Environmental Services of the Ohio Department of Transportation has made a "no historic properties affected" finding for the Tomahawk Expansion.

4906-11-01 (D) (4): Documentation of Letter of Notification Transmittal

This Letter of Notification is being provided concurrently to the following officials:

Mahoning County

The Honorable David Ludt
Mahoning County Commissioner
21 W. Boardman Street
Second Floor
Youngstown, OH 44503

The Honorable Anthony Trafficanti
Mahoning County Commissioner
21 W. Boardman Street
Second Floor
Youngstown, OH 44503

The Honorable John McNally
Mahoning County Commissioner
21 W. Boardman Street
Second Floor
Youngstown, OH 44503

Mr. Richard A. Marsico, P.E., P.S.
Mahoning County Engineer
940 Bears Den Road
Youngstown, OH 44512

Michael O'Shaughnessy
Director, Planning Commission
50 Westchester Drive, Suite 203
Youngstown, OH 44515

Trumbull County

The Honorable Frank Fuda
Trumbull County Commissioner
County Administration Building
160 High Street, N.W.
Warren, OH 44481

The Honorable Daniel Polivka
Trumbull County Commissioner
County Administration Building
160 High Street, N.W.
Warren, OH 44481

The Honorable Paul Heltzel
Trumbull County Commissioner
160 High Street, N.W.
Warren, OH 44481

David DeChristofaro, P.E., P.S.
Trumbull County Engineer
650 North River Road, N.W.
Warren, OH 44483-2255

Bill Miller
Director, Planning Commission
347 North Park Avenue
Warren, OH 44481

Liberty Township (Trumbull Cty)

The Honorable W. Gary Litch
Liberty Township Trustee
1315 Churchill-Hubbard Road
Liberty Township, Ohio 44505-1378

The Honorable Jodi Stoyak
Liberty Township Trustee
1315 Churchill-Hubbard Road
Liberty Township, Ohio 44505-1378

The Honorable Jack Simon
Liberty Township Trustee
1315 Churchill-Hubbard Road
Liberty Township, Ohio 44505-1378

Mr Patrick Ungaro
Liberty Township Administrator
1315 Churchill-Hubbard Road
Liberty Township, Ohio 44505-1378

City of Girard

The Honorable James Melfi
Mayor, City of Girard
100 West Main Street
Girard, OH 44420

George Finelli
Chair, Planning Commission
635 Beaver
Girard, Ohio 44420

The Honorable Reynald Paolone
President of Council, City of Girard
100 West Main Street
Girard, Ohio 44420

David Hall
City Engineer, City of Girard
100 West Main Street
Girard, OH 44420

City of Youngstown

The Honorable Jay Williams
Mayor, City of Youngstown
6th Floor, City Hall
26 South Phelps Street
Youngstown, OH 44503

Chuck Shasho
City Engineer, City of Youngstown
5th Floor, City Hall
26 South Phelps Street
Youngstown, OH 44503

The Honorable Chuck Sammarone
President of Council, City of
Youngstown
6th Floor, City Hall
26 South Phelps Street
Youngstown, OH 44503

Valencia Y. Marrow
Clerk of Council, City of Youngstown
6th Floor, City Hall
26 South Phelps Street
Youngstown, OH 44503

Copies of the transmittal letters to these officials have been included with this Letter of Notification to the Ohio Power Siting Board. V&M will advise local officials of features and the status of the proposed Project as necessary.

4906-11-01 (D) (5): Current or Pending Litigation

None.

4906-11-01 (D) (6): Local, State, and Federal Requirements

Any remaining local, state, and federal requirements are being managed by the State of Ohio in its capacity as the owner of the land that is leased to V&M.

4906-11-01 (E): Environmental Data

4906-11-01 (E) (1): Endangered, Threatened, and Rare Species Investigation

The Project will not adversely affect federal or state designated species. Pursuant to a July 6, 2009 letter from the Ohio Department of Natural Resources, there are no records of rare or endangered species within a one mile radius of the Project. The July 6, 2009 letter from the Ohio Department of Natural Resources is attached as Exhibit 6.

4906-11-01 (E) (2): Areas of Ecological Concern

The Project will not impact areas of ecological concern. Areas of ecological concern were previously studied as a result of a permitting process.

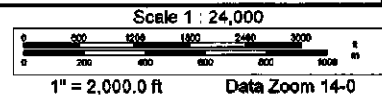
4906-11-01 (E) (3): Additional Information

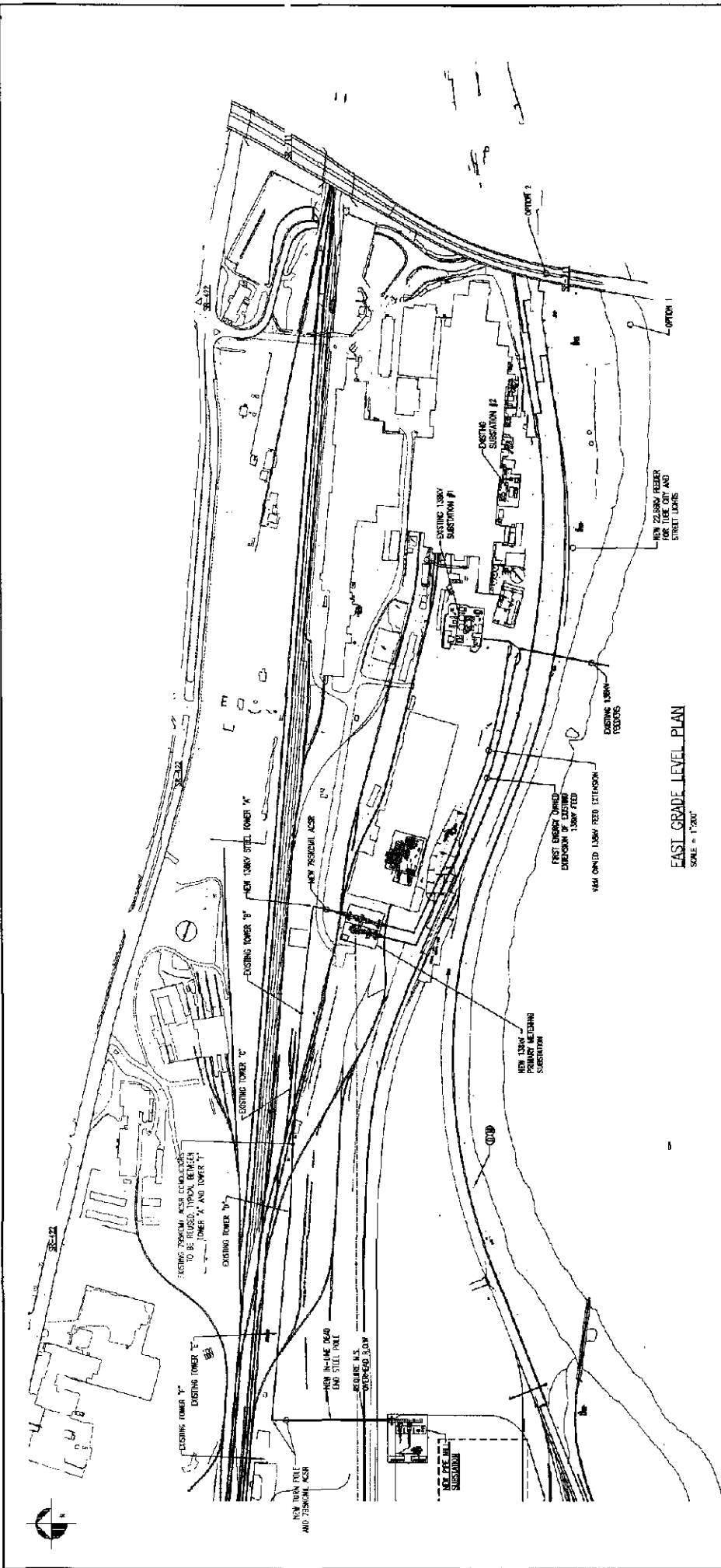
Construction and operation of the proposed Project will be in accordance with the requirements specified in the latest revision of the National Electrical Safety Code as adopted by the PUCO and will meet all applicable safety standards established by the Occupational Safety and Health Administration.

EXHIBIT 1



Orig Date: 1984
 Quad Series: 7.5'
 Paper Source: Topographic 1:24,000
 Quad Order ID: 41080-A6
 Coverage: Mahoning County, OH
 Vendor: USGS

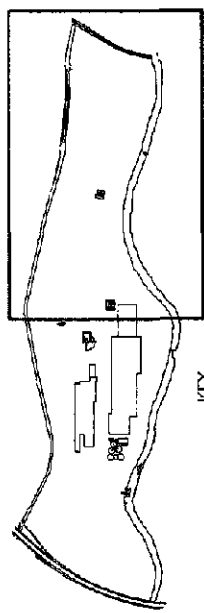




EAST GRADE LEVEL PLAN
SCALE = 1"=30'

NOTES: EXISTING TOWER F IS UNBUILT AND TO BE DELETED

- LEGEND:
- ⊙ INCLUDES DISCONNECT ON DESIGNATED POLE
 - ⊙ INCLUDES METER ON DESIGNATED POLE
 - ⊙ INCLUDES FUSE ON DESIGNATED POLE
 - CASE NUMBER 00-1023-LI-BLN
 - CASE NUMBER 00-1023-LI-RM
 - CASE NUMBER 00-1023-LI-BLN



KEY
SCALE = NONE

NO.	DATE	REVISION	BY
1	12-12-08	ISSUED FOR REVIEW	GR
2	1-2-09	ISSUED FOR PRELIMINARY	GR
3	1-2-09	APPROVED	GR
4	1-2-09	APPROVED	GR

V&M STAR
YOUNGSTOWN, OHIO

7" FOM SEAMLESS PIPE MILL
EAST GRADE LEVEL SITE PLAN

DATE	12-12-08	DRAWN	SCS	CHECKED	GR
SCALE	1"=200'	DWG. SIZE	D	APPROVED	GR
REFERENCE DRAWING: BRIEF DRAWING DESCRIPTION					SHEET NUMBER
DRAWING NUMBER					REVISION
DRAWING NUMBER					SHEET NUMBER
PROJECT: 7" FOM SEAMLESS PIPE MILL					
SITE: EAST GRADE LEVEL SITE PLAN					
PROJECT NO.: VM5-01-00-0000-22-003					



MEMPHIS, TENNESSEE

NO.	DATE	REVISION	BY
1	12-12-08	ISSUED FOR REVIEW	GR
2	1-2-09	ISSUED FOR PRELIMINARY	GR
3	1-2-09	APPROVED	GR
4	1-2-09	APPROVED	GR

EXHIBIT No. 3. TANGENT STRUCTURE 0 - 7 DEG

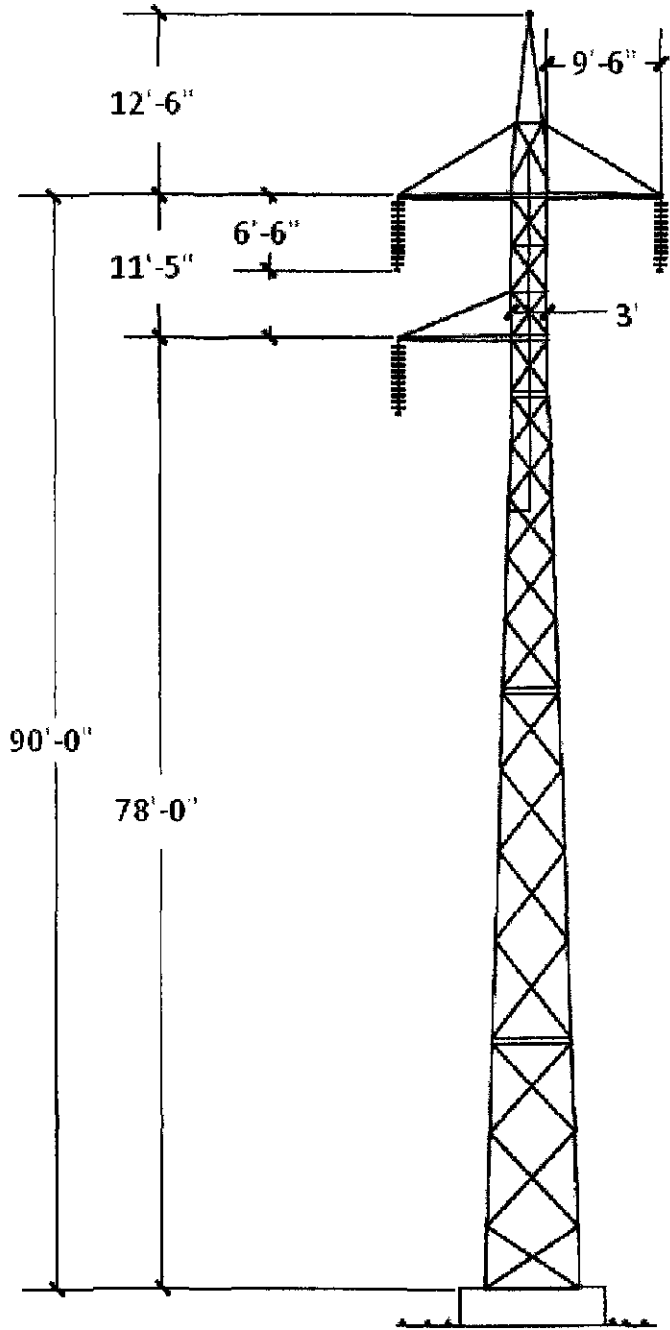


EXHIBIT No. 4. INLINE DEADEND STRUCTURE 0 DEG

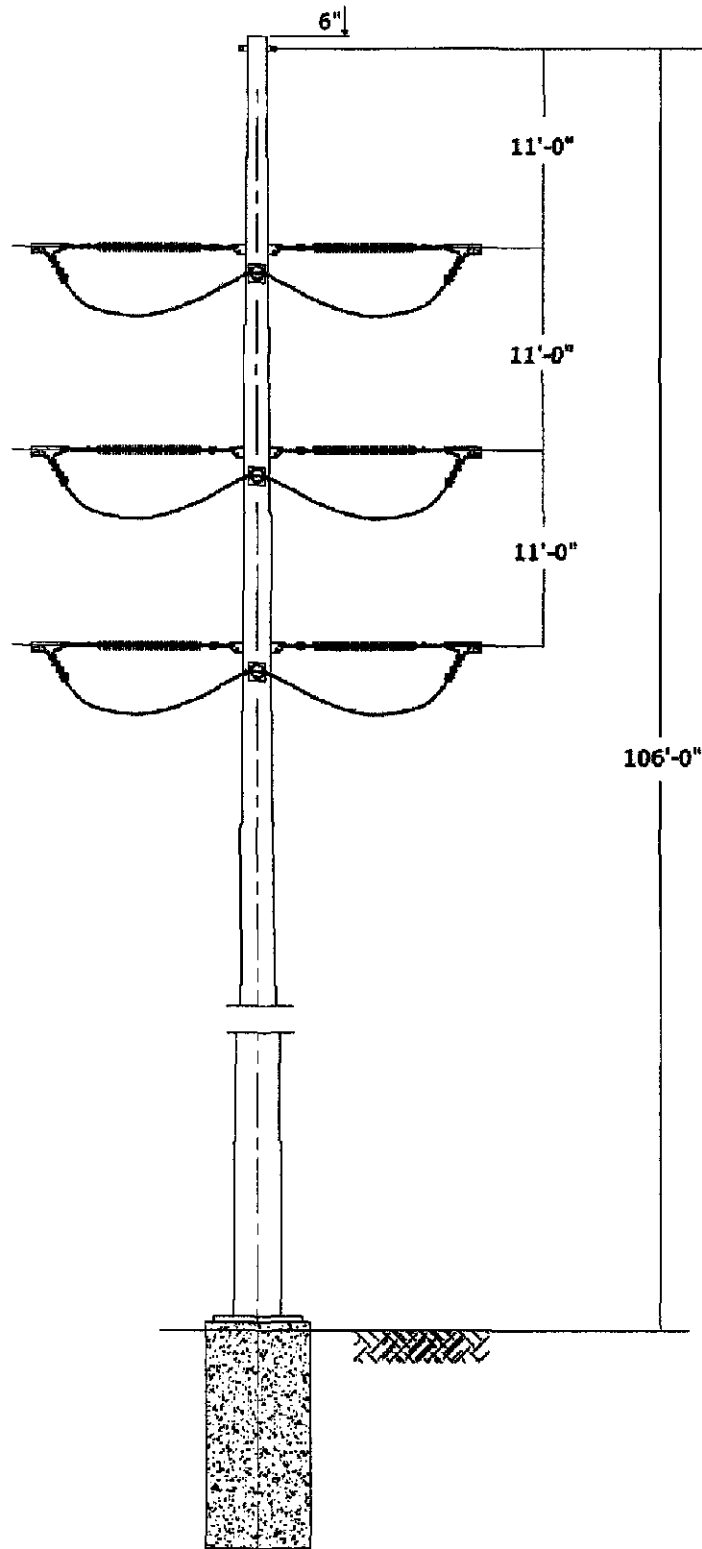
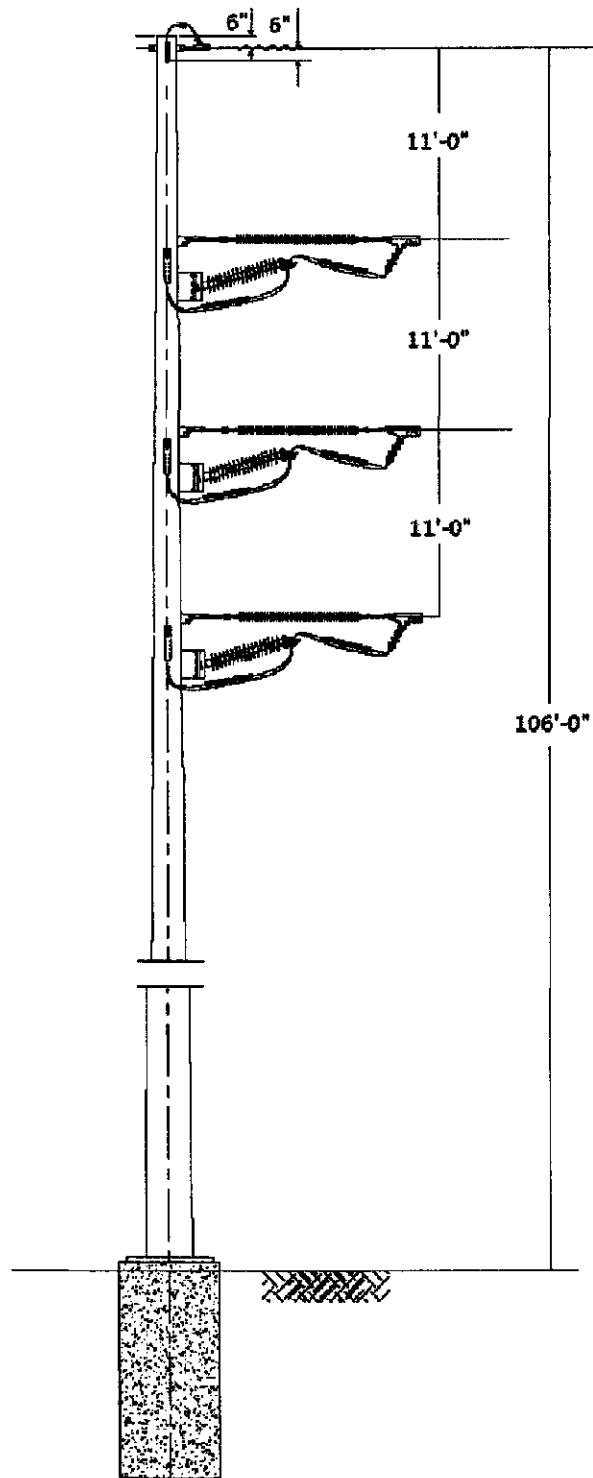


EXHIBIT No. 5 – DEADEND STRUCTURE 60 – 90 DEG





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 43228-6693
Phone: (614) 265-6453; Fax: (614) 257-3096

July 6, 2009

William Malson
MS Consultants, Inc.
4450 Belden Village St. NW, Suite 801
Canton, OH 44718

Dear Mr. Malson:

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 Brier Hill Industrial Park project area, including a one mile radius, between I-80 and just south of State Route 711 in Girard, Trumbull County and Youngstown, Mahoning County, and on the Girard and Youngstown Quads (PID 86378).

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,

[Handwritten signature of Debbie Woischke]

Debbie Woischke, Ecological Analyst
Natural Heritage Program

