



Legal Department

American Electric Power
1 Riverside Plaza
Columbus, OH 43215-2373
AEP.com

October 31, 2016

Chairman Asim Z. Haque
Ohio Power Siting Board
180 East Broad Street
Columbus, Ohio 43215

**Re: Case No. 16-1774-EL-BLN
In the Matter of the Letter of Notification for the
Fulton-Windfall 138 kV Switch**

Hector Garcia
Senior Counsel –
Regulatory Services
(614) 716-3410 (P)
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Dear Chairman Haque,

Attached please find a copy of the Letter of Notification (LON) for the above-captioned project ("Project") by AEP Ohio Transmission Company, Inc. This filing and notice is in accordance with O.A.C. 4906-6-05

A copy of this filing will also be submitted to the executive director or the executive director's designee. A copy will be provided to the Board Staff, including an electronic copy.

If you have any questions, please do not hesitate to contact me.

Respectfully Submitted,

/s/ Hector Garcia

Hector Garcia
Counsel for AEP Ohio Transmission Company, Inc.

cc. Werner Margard, Counsel OPSB Staff
Jon Pawley, OPSB Staff

Letter of Notification for Fulton-Windfall 138 kV Switch



PUCO Case No. 16-1774-EL-BLN

Submitted to:
The Ohio Power Siting Board
Pursuant to Ohio Administrative Code
Section 4906-6-05

Submitted by:
AEP Ohio Transmission Company, Inc.

October 31, 2016

LETTER OF NOTIFICATION FOR
FULTON-WINDFALL 138 KV SWITCH

October 31, 2016

Letter of Notification

AEP Ohio Transmission Company, Inc. Fulton -Windfall 138 kV Switch

4906-6-05

AEP Ohio Transmission Company, Inc. ("AEP Ohio Transco") is providing the following information to the Ohio Power Siting Board ("OPSB") in accordance with the accelerated application requirements of Ohio Administrative Code Section 4906-6-05.

4906-6-5(B) General Information

B(1) Project Description

The name of the project and applicant's reference number, names and reference number(s) of resulting circuits, a brief description of the project, and why the project meets the requirements for a Letter of Notification.

AEP Ohio Transco is proposing the Fulton-Windfall 138 kV Switch project (the "Project") which is located between AEP Ohio Transco's Fulton station in Lincoln Township, Morrow County, Ohio and AEP Ohio Transco's Windfall Switch station in Richland Township, Marion County, Ohio. The length of the Project is approximately 10.4 miles. Seventy-four (74) existing wood pole structures will be replaced with new steel structures. All of the transmission line rebuild work will occur within existing AEP Ohio Transco's right-of-way ("ROW"). Figure 1.1 in Appendix A shows the location of the Project. Figures 1.2 and 1.3 in Appendix A show the existing AEP Ohio Transco ROW corridors and substations, pole structure locations, and planned access road locations. The Project has been assigned PUCO Case No. 16-1774-EL-BLN.

The Project meets the requirements for a Letter of Notification because it is within the types of projects defined by Item (2)(b) of 4906-1-01 *Appendix A Application Requirement Matrix For Electric Power Transmission Line*. 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 a different type of structure for a distance of:

(b) More than two miles.

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B(2) Statement of Need

If the proposed project is an electric power transmission line or gas or natural gas transmission line, a statement explaining the need for the proposed facility.

This Project is part of a series of improvements planned for AEP Ohio Transco's Mount Vernon to South Kenton 138 kV transmission line to improve the reliability of electric service in Knox, Morrow and Marion Counties, Ohio. The planned facility upgrade is required to alleviate voltage concerns and replace aging wood pole structures. Many of the causes for customer outages were attributed to line defects such as crossarm failures and insect damage to knee braces and poles. The Project will improve the reliability of the transmission network in north-central Ohio and provide adequate voltage on the local 138 kV system under N-1 contingency conditions per applicable system planning criteria.

B(3) Project Location

The applicant shall provide the location of the project in relation to existing or proposed lines and substations shown on an area system map of sufficient scale and size to show existing and proposed transmission facilities in the project area.

Figures 1.1, 1.2, and 1.3 in Appendix A show the location of the Project in relation to existing AEP Ohio Transco facilities, including the Fulton station, the Windfall Switch station, and other AEP Ohio Transco transmission lines.

B(4) Alternatives Considered

The applicant shall describe the alternatives considered and reasons why the proposed location or route is best suited for the proposed facility. The discussion shall include, but not be limited to, impacts associated with socioeconomic, ecological, construction, or engineering aspects of the project.

All of the proposed transmission line rebuild work will occur within existing AEP Ohio Transco ROW (see Figure 1.2 in Appendix A) on the existing transmission line centerline. Therefore, no alternatives were considered for this Project.

B(5) Public Information Program

The applicant shall describe its public information program to inform affected property owners and tenants of the nature of the project and the proposed timeframe for project construction and restoration activities.

AEP Ohio Transco did not develop a public information plan with respect to this Project, as all of the proposed transmission line rebuild work will occur within existing AEP Ohio Transco ROW (see Figure 1.2 in Appendix A) and AEP Ohio Transco has reached agreements with adjacent property owners to access AEP Ohio Transco's ROW during construction work.

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B(6) Construction Schedule

The applicant shall provide an anticipated construction schedule and proposed in-service date of the project.

Construction of the Project is planned to begin November 2017 with an anticipated in-service date of May 2020.

B(7) Area Map

The applicant shall provide a map of at least 1:24,000 scale clearly depicting the facility with clearly marked streets, roads, and highways, and an aerial image.

Figure 1.1 in Appendix A identifies the location of the Project on Marengo and Ashley 7.5' USGS quadrangle maps. Figure 1.2 in Appendix A shows the location of the Project on aerial photographs. Figure 1.4 in Appendix A shows the general location of the Project relative to local communities and the primary road network. To visit the Project from Columbus, drive north on Interstate 71 to State Route 61 (Exit 140). Drive north on State Route 61 to Phillips Road. Drive west on Phillips Road to Worthington-New Haven Road. Drive west on Worthington-New Haven Road and Fulton station will be on the west side of the road. The Project extends northwest approximately 10.4 miles to Windfall Switch station, located along the south side of Newmans Cardington Road, approximately five miles northeast of Waldo, Ohio.

B(8) Property Agreements

The applicant shall provide a list of properties for which the applicant has obtained easements, options, and/or land use agreements necessary to construct and operate the facility and a list of the additional properties for which such agreements have not been obtained.

All of the proposed transmission line rebuild work for the Project will occur within existing AEP Ohio Transco ROW (see Figure 1.2 in Appendix A). AEP Ohio Transco has reached agreements with adjacent property owners to access AEP Ohio Transco ROW during construction. AEP Ohio Transco planned access road locations are shown on Figures 1.1, 1.2, and 1.3 in Appendix A. No other property easements, options, or land use agreements are necessary to construct the Project.

B(9) Technical Features

The applicant shall describe the following information regarding the technical features of the Project:

B(9)(a) Operating characteristics, estimated number and types of structures required, and right-of-way and/or land requirements.

The Project will include the installation of new 1033.5 kcmil 54/7 ACSR (Curlew) conductors, along with a 7#8 alumoweld shield wire and 0.646 diameter OPGW. The existing conductor is 477 kcmil ACSR and the existing shield wire is (2) 7#8 alumoweld. All deadends will utilize pier foundations with anchor cages.

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B(9)(b) Electric and Magnetic Fields

For electric power transmission lines that are within one hundred feet of an occupied residence or institution, the production of electric and magnetic fields during the operation of the proposed electric power transmission line. The discussion shall include:

B(9)(b)(i) Calculated Electric and Magnetic Field Strength Levels

Three loading conditions were examined: (1) normal maximum loading, (2) emergency line loading, and (3) winter normal conductor rating. Normal maximum loading represents the peak flow expected with all system facilities in service; daily/hourly flows fluctuate below this level. Emergency loading is the maximum current flow during unusual (contingency) conditions, which exist only for short periods of time. Winter normal (WN) conductor rating represents the maximum current flow that a line, including its terminal equipment, can carry during winter conditions. It is not anticipated that this line would operate at its WN rating in the foreseeable future. Loading levels and the calculated electric and magnetic fields ("EMF") are summarized below.

EMF Calculations			
Condition	Circuit Load (A)	Electric Field (kV/m)*	Magnetic Field (mG)*
(1) Normal Max. Loading	128.3	0.6/1.1/0.6	6.6/18.8/6.8
(2) Emergency Line Loading	232.5	0.6/1.1/0.6	12.0/34.1/12.3
(3) WN Conductor Rating	1568.9	0.7/1.9/0.7	99.0/419.4/100.4

*EMF levels (left ROW edge/maximum/right ROW edge) computed one meter above ground at the point of minimum ground clearance, assuming balanced phase currents and nominal voltages. Electric fields reflect normal and emergency operations; lower electric fields are expected during emergency conditions when one mutually-coupled line is out of service.

B(9)(b)(ii) Design Alternatives

A discussion of the applicant's consideration of design alternatives with respect to electric and magnetic fields and their strength levels, including alternate conductor configuration and phasing, tower height, corridor location, and right-of-way width.

Because transmission line rebuild work associated with the Project will occur within the existing AEP Ohio Transco ROW, no alternatives were considered.

B(9)(c) Project Cost

The estimated capital cost of the project.

The 2016 capital cost estimates for the Project is \$15,600,000.

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B(10) Social and Economic Impact

The applicant shall describe the social and ecological impacts of the project.

B(10)(a) Operating Characteristics

Provide a brief, general description of land use within the vicinity of the proposed project, including a list of municipalities, townships, and counties affected.

The Project is located within Cardington, Westfield, and Lincoln Townships, Morrow County, Ohio and Richland Township, Marion County, Ohio. According to the Morrow County zoning regulations, Cardington, Westfield, and Lincoln Townships are all zoned. Westfield and Lincoln Townships are primarily Agricultural and Residential, however, Cardington did not have detailed information on the zoning (<http://morrowcountyohio.gov/www/index.php/zoning-resolutions>). According to Marion County zoning regulations, Richland Township is zoned and is primarily Residential and Rural Residential (<http://www.marionohioplanning.org/index.php/zoning-regulations>).

Land uses in the Project area primarily consist of agricultural land (cultivated cropland; see Figure 1.3 in Appendix A). Within AEP Ohio Transco's existing ROW, agricultural land uses are actively farmed crops (see Figure 1.2 in Appendix A for aerial photography showing AEP Ohio Transco's ROW corridor). Appendix D contains photographs and descriptions of specific ecological habitat types within AEP Ohio Transco's ROW. There are currently 70 residences within 1,000 feet of the centerline of the Project. Two churches and one cemetery are also within 1,000 feet of the centerline of the Project. No schools, parks, preserves, or wildlife management areas are located within 1,000 feet of the centerline of the Project (see Figure 1.3 in Appendix A).

B(10)(b) Agricultural Land Information

Provide the acreage and a general description of all agricultural land, and separately all agricultural district land, existing at least sixty days prior to submission of the application within the potential disturbance area of the project.

Based on field surveys, there are approximately 92 acres of agricultural land in the Project area, comprised primarily of cultivated cropland. According to the Morrow County Auditor's Office, there are no registered agricultural district parcels located in the Project area. According to the Marion County Auditor's Office, there are three (3) parcels registered as agricultural district lands, including 290300000900, 290300001100 and 290290001200 within the Project (see Figure 1.3 in Appendix A).

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B(10)(c) Archaeological and Cultural Resources

Provide a description of the applicant's investigation concerning the presence or absence of significant archeological or cultural resources that may be located within the potential disturbance area of the project, a statement of the findings of the investigation, and a copy of any document produced as a result of the investigation.

An archaeological investigation has been conducted by an AEP Ohio Transco consultant for the Project. A copy of the Phase I Archeological Investigation is attached as Appendix B. As indicated in Appendix B, AEP Ohio Transco's consultant concludes that no historic properties will be affected by the Project.

B(10)(d) Local, State, and Federal Agency Correspondence

Provide a list of the local, state, and federal governmental agencies known to have requirements that must be met in connection with the construction of the project, and a list of documents that have been or are being filed with those agencies in connection with siting and constructing the project.

A Notice of Intent will be filed with the Ohio Environmental Protection Agency for authorization of construction storm water discharges under General Permit OHCD00004. AEP Ohio Transco will also coordinate storm water permitting needs with local government agencies, as necessary. AEP Ohio Transco will implement and maintain best management practices as outlined in the project-specific Storm Water Pollution Prevention Plan to minimize erosion and control sediment to protect surface water quality during storm events.

There are 100-year floodplains mapped at two locations within the Project area. They are along Shaw Creek and along Whetstone Creek (see Appendix D). One proposed pole structure replacement and an access road are located within the Shaw Creek floodplain. AEP Ohio Transco is evaluating the potential need for a floodplain permit for these activities and will coordinate with the Morrow County Floodplain Administrator, as necessary. No pole replacements or access roads are proposed in the Whetstone Creek floodplain.

Other than one structure that is being replaced within a palustrine emergent wetland (with an anticipated amount of fill to be 0.001 acre or less), Project construction activities (including access roads) are not expected to require the placement of any permanent fills within streams or wetlands, or require any mechanical clearing within forested or scrub-shrub wetlands (see Appendix D). Therefore, the Project is expected to be completed under a Clean Water Act Section 404 Permit (Nationwide Permit 12), without the need for a pre-construction notification letter to be submitted to the U.S. Army Corps of Engineers. There are no other known local, state or federal requirements that must be met prior to commencement of the Project.

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B(10)(e) Threatened, Endangered, and Rare Species

Provide a description of the applicant's investigation concerning the presence or absence of federal and state designated species (including endangered species, threatened species, rare species, species proposed for listing, species under review for listing, and species of special interest) that may be located within the potential disturbance area of the project, a statement of the findings of the investigation, and a copy of any document produced as a result of the investigation.

The United States Fish and Wildlife Service (“USFWS”) *Federally Listed Species by Ohio Counties October 2015* (available at www.fws.gov/midwest/ohio/pdf/OhioTEListByCountyOct2015.pdf) was reviewed to determine the threatened and endangered species currently known to occur in Marion and Morrow counties. This USFWS publication lists Indiana bat (*Myotis sodalis*; federally listed endangered) and northern long-eared bat (*Myotis septentrionalis*; federally listed threatened) as threatened and endangered species currently known to occur in both Marion and Morrow counties. The publication lists ruffed grouse (*Villosa fabalis*; federally listed endangered) and eastern massasauga rattlesnake (*Sistrurus catenatus catenatus*; proposed threatened) as occurring in Marion County. The bald eagle (*Haliaeetus leucocephalus*; species of concern) is also on this list of species for Marion and Morrow counties. As part of the ecological study completed for this project, a coordination letter was submitted to the USFWS Ohio Ecological Services Field Office seeking an environmental review of the Project for potential impacts to threatened or endangered species. The October 5, 2016 response letter from USFWS (see Appendix D) indicated that the Project is within the range of the Indiana bat and northern long-eared bat in Ohio and recommends saving trees ≥ 3 inches diameter at breast height whenever possible. The USFWS response letter indicated that, due to the project type, size, and location, if caves and mines (potential bat hibernacula) will not be disturbed and seasonal tree cutting (clearing of trees ≥ 3 inches diameter at breast height between October 1 and March 31) to avoid impacts to Indiana bats and northern long-eared bats is implemented, they do not anticipate adverse effects to any federally endangered, threatened, proposed, or candidate species.

As summarized in Appendix D, ecological field surveys conducted by AEP’s consultant did not identify any potentially suitable Indiana bat/northern long-eared bat roost trees within the Project area. No suitable habitat for the bald eagle was observed within the Project area, and the USFWS has indicated that due to the project type, size, and location, no adverse effects to this species are anticipated.

As part of the ecological study completed for the Project, coordination letters were also submitted to the Ohio Department of Natural Resources (“ODNR”) Division of Wildlife (“DOW”) Ohio Natural Heritage Program (“ONHP”) and ODNR-Office of Real Estate. Correspondence received from ODNR-ONHP (Appendix D) indicated that Project area does not contain any known occurrences of state-listed species, federally-listed species, or rare species within the Project area. According to the ODNR-ONHP, Creek heelsplitter (*Lasmigona compressa*), a state species of concern, has a documented location within a mile of the Project in Whetstone Creek. A response from ODNR-Office of Real Estate has not yet been received. Several state-listed threatened and endangered species are listed by the ODNR-DOW (<http://wildlife.ohiodnr.gov/species-and-habitats/state-listed-species/state-listed-species-by-county>) as occurring, or potentially occurring in Marion and Morrow counties. As summarized in Appendix D, suitable

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habitat for the state-listed endangered loggerhead shrike (*Lanius ludovicianus*), regal fritillary (*Speyeria idalia*), rayed bean (*Villosa fabalis*), and eastern massasauga rattlesnake (*Sistrurus catenatus catenatus*), as well as the state-listed threatened pondhorn (*Uniomerus tetralasmus*) and state species of concern creek heelsplitter, was observed in the Project area during ecological field surveys conducted by AEP Ohio Transco's consultant. However, no impacts to these species are anticipated.

B(10)(f) Areas of Ecological Concern

Provide a description of the applicant's investigation concerning the presence or absence of areas of ecological concern (including national and state forests and parks, floodplains, wetlands, designated or proposed wilderness areas, national and state wild and scenic rivers, wildlife areas, wildlife refuges, wildlife management areas, and wildlife sanctuaries) that may be located within the potential disturbance area of the project, a statement of the findings of the investigation, and a copy of any document produced as a result of the investigation.

Correspondence received from USFWS (see Appendix D) indicated that there are no federal wilderness areas, wildlife refuges, or designated critical habitat in the vicinity of the Project. Correspondence from ODNR-ONHP (see Appendix D) indicated that they are unaware of any unique ecological sites, geologic features, animal assemblages, scenic rivers, state wildlife areas, nature preserves, parks or forests, national wildlife refuges, or other protected natural areas within a one mile radius of the Project area.

There are mapped 100-year floodplains at two locations in the Project area: along Shaw Creek and along Whetstone Creek (see Appendix D). One proposed structure replacement and an access road are located within the Shaw Creek floodplain. AEP Ohio Transco is evaluating the potential need for a floodplain permit for these activities and will coordinate with the Morrow County Floodplain Administrator, as necessary. No pole replacements or access roads are proposed in the Whetstone Creek floodplain.

On September 26 and September 27, 2016, a wetland and stream reconnaissance survey was completed by AEP Ohio Transco's consultant within the AEP Ohio Transco ROW and proposed access roads. Two (2) wetlands and seven (7) streams were identified. The locations of these features can be found on Figure 2 in Appendix D. AEP Ohio Transco will avoid these features or cross using temporary timber mat structures (to the extent possible). Project construction activities may require the placement of a small amount of permanent fill (anticipated to be 0.001 acre or less) within one wetland (Wetland 1). See Appendix D for more information regarding this wetland and its location within the Project area. AEP Ohio Transco is evaluating the potential need for a Clean Water Act Section 404 Permit and will coordinate with the U.S. Army Corps of Engineers, as necessary. It is anticipated that the Project can be completed under Nationwide Permit 12, without the need for pre-construction notification to the U.S. Army Corps of Engineers.

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B(10)(g) Unusual Conditions

Provide any known additional information that will describe any unusual conditions resulting in significant environmental, social, health, or safety impacts.

To the best of AEP Ohio Transco's knowledge, there are no known unusual conditions that are would result in significant environmental, social, health or safety impacts.

**LETTER OF NOTIFICATION FOR
FULTON-WINDFALL 138 KV SWITCH**

Appendix A Project Maps
October 31, 2016

Appendix A Project Maps

Figures 1.1, 1.2, 1.3 and 1.4

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Appendix B Phase I Archeological Investigation
October 31, 2016

Appendix B Phase I Archeological Investigation

**LETTER OF NOTIFICATION FOR
FULTON-WINDFALL 138 KV SWITCH**

Appendix C Cultural Historic Investigation
October 31, 2016

Appendix C Cultural Historic Investigation

**LETTER OF NOTIFICATION FOR
FULTON-WINDFALL 138 KV SWITCH**

Appendix D Ecological Resources Inventory Report
October 31, 2016

Appendix D Ecological Resources Inventory Report



Figure No.
1.2

Project Layout Map

Client/Project
AEP Ohio Transmission Company
Fulton Station - Windfall Switch
138 kV Transmission Line Rebuild Project

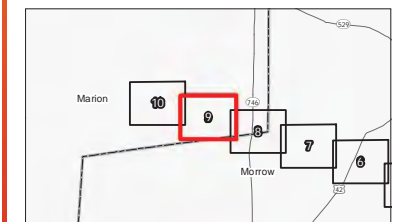
Project Location
Marion and Morrow County, Ohio

193704279
Prepared by HDB on 2016-09-19
Technical Review by JDP on 2016-09-20
Independent Review by DJG on 2016-10-20



Legend

- AEP Substation
- Structure to be Replaced
- 138 kV Transmission Line Rebuild
- - - Access Road
- - - Existing Transmission Line
- - - Existing 100-foot Right-Of-Way



- Notes
1. Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet
 2. Data Sources Include: Stantec, AEP, NADS
 3. Orthophotography: 2015 NADP





Figure No.
1.2

Title
Project Layout Map

Client/Project
AEP Ohio Transmission Company
Fulton Station - Windfall Switch
138 kV Transmission Line Rebuild Project

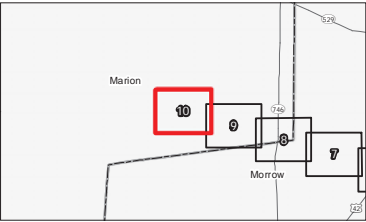
Project Location
Marion and Morrow County, Ohio
193704279
Prepared by HDB on 2016-09-19
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1:4,800 (At original document size of 11x17)



Legend

- AEP Substation
- Structure to be Replaced
- 138 kV Transmission Line Rebuild
- - - Access Road
- - - Existing Transmission Line
- - - Existing 100-foot Right-Of-Way



- Notes
1. Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet
 2. Data Sources Include: Stantec, AEP, NADS
 3. Orthophotography: 2015 NAIIP





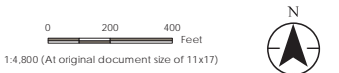
Figure No.
1.3

Title
Land Use Map

Client/Project
AEP Ohio Transmission Company
Fulton Station - Windfall Switch
138 kV Transmission Line Rebuild Project

Project Location
Mason County, Ohio

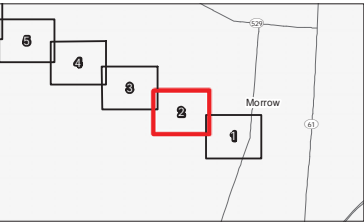
193704279
Prepared by HDB on 2016-09-19
Technical Review by JDP on 2016-09-20
Independent Review by DJG on 2016-10-20



Legend

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|---|---|
| <ul style="list-style-type: none">■ AEP Substation○ Structure to be Replaced— 138 kV Transmission Line Rebuild- - - Access Road- - - Existing Transmission Line- - - Existing 100-foot Right-of-Way■ Residence■ School*■ Cemetery■ Church■ Agricultural District Parcel | <p>National Land Cover Database</p> <ul style="list-style-type: none">■ Open Water■ Developed, Open Space■ Developed, Low Intensity■ Developed, Medium Intensity■ Deciduous Forest■ Evergreen Forest■ Shrub/Scrub■ Grassland/Herb...■ Pasture/Hay■ Cultivated Crops■ Woody Wetlands |
|---|---|

*No feature within map extents.



- Notes
1. Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet
 2. Data Sources Include: Stantec, AEP, NLCD, NADS
 3. Orthophotography: 2015 World Imagery USDA FSA





Figure No.
1.3

Land Use Map

Client/Project
AEP Ohio Transmission Company
Fulton Station - Windfall Switch
138 kV Transmission Line Rebuild Project

Project Location
Marion County, Ohio

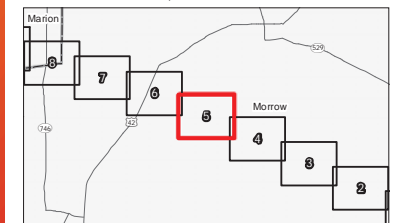
193704279
Prepared by HDB on 2016-09-19
Technical Review by JDP on 2016-09-20
Independent Review by DJG on 2016-10-20



Legend

- | | |
|--------------------------------------|------------------------------|
| ■ AEP Substation | National Land Cover Database |
| ○ Structure to be Replaced | Open Water |
| — 138 kV Transmission Line Rebuild | Developed, Open Space |
| - - - Access Road | Developed, Low Intensity |
| - - - Existing Transmission Line | Developed, Medium Intensity |
| - - - Existing 100-foot Right-of-Way | Deciduous Forest |
| ■ Residence | Evergreen Forest |
| ■ School* | Shrub/Scrub |
| ✕ Cemetery | Grassland/Herb... |
| ✕ Church | Pasture/Hay |
| ■ Agricultural District Parcel | Cultivated Crops |
| | Woody Wetlands |

*No feature within map extents.



- Notes
1. Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet
 2. Data Sources Include: Stantec, AEP, NLCD, NADS
 3. Orthophotography: 2015 World Imagery USDA FSA



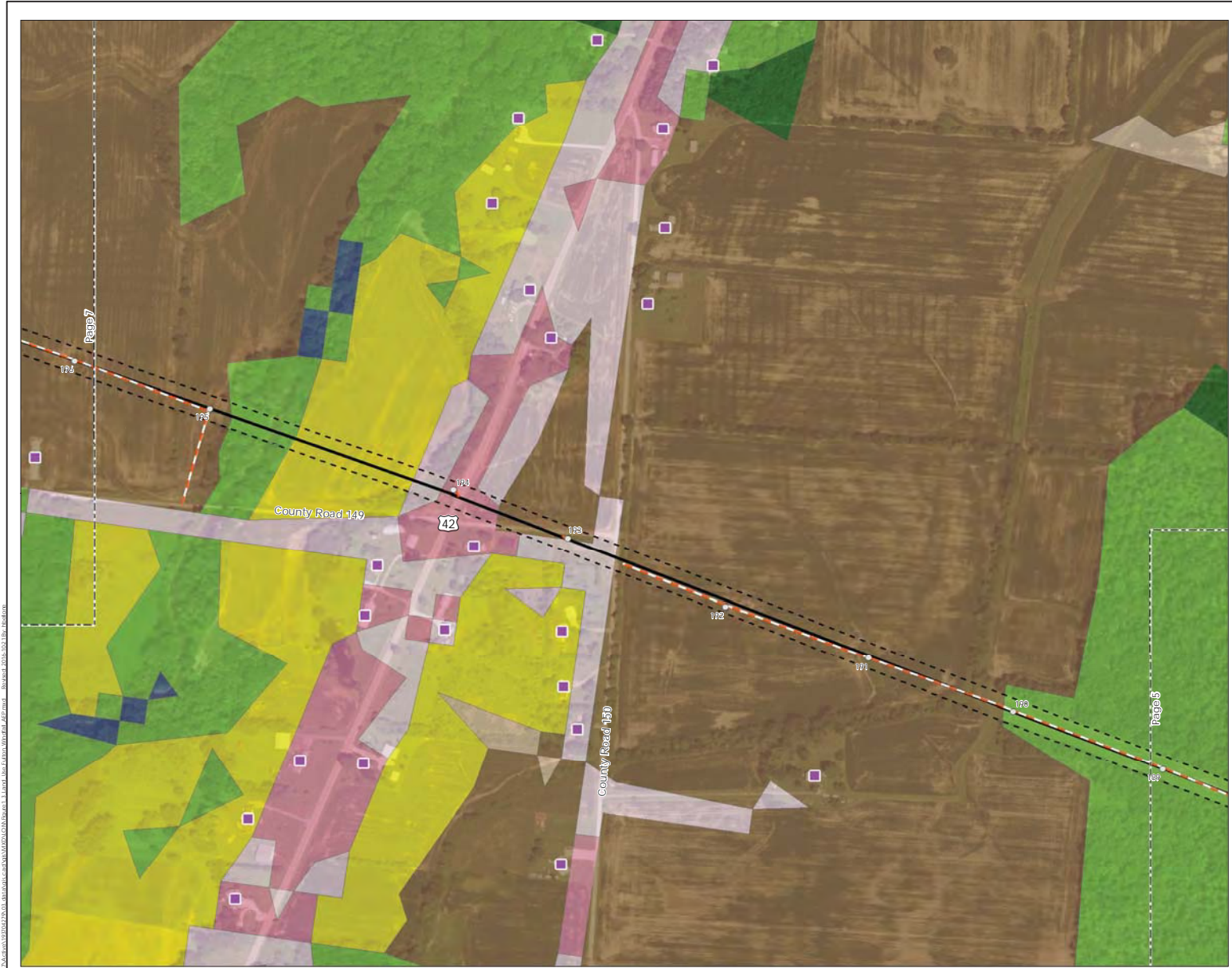


Figure No.
1.3

Land Use Map

Client/Project
AEP Ohio Transmission Company
Fulton Station - Windfall Switch
138 kV Transmission Line Rebuild Project

Project Location
Marion County, Ohio

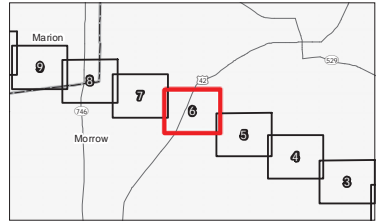
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Legend

- | | |
|---|---|
| <ul style="list-style-type: none">■ AEP Substation○ Structure to be Replaced— 138 kV Transmission Line Rebuild- - - Access Road- - - Existing Transmission Line- - - Existing 100-foot Right-of-Way■ Residence■ School*■ Cemetery■ Church■ Agricultural District Parcel | <p>National Land Cover Database</p> <ul style="list-style-type: none">■ Open Water■ Developed, Open Space■ Developed, Low Intensity■ Developed, Medium Intensity■ Deciduous Forest■ Evergreen Forest■ Shrub/Scrub■ Grassland/Herb...■ Pasture/Hay■ Cultivated Crops■ Woody Wetlands |
|---|---|

*No feature within map extents.



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 3. Orthophotography: 2015 World Imagery USDA FSA





Figure No.
1.3

Land Use Map

Client/Project
AEP Ohio Transmission Company
Fulton Station - Windfall Switch
138 kV Transmission Line Rebuild Project

Project Location
Marion County, Ohio

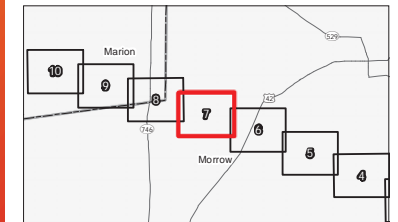
193704279
Prepared by HDB on 2016-09-19
Technical Review by JDP on 2016-09-20
Independent Review by DJG on 2016-10-20



Legend

<ul style="list-style-type: none"> AEP Substation Structure to be Replaced 138 kV Transmission Line Rebuild Access Road Existing Transmission Line Existing 100-foot Right-of-Way Residence School* Cemetery Church Agricultural District Parcel 	<ul style="list-style-type: none"> National Land Cover Database Open Water Developed, Open Space Developed, Low Intensity Developed, Medium Intensity Deciduous Forest Evergreen Forest Shrub/Scrub Grassland/Herb... Pasture/Hay Cultivated Crops Woody Wetlands
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*No feature within map extents.



- Notes
1. Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet
 2. Data Sources Include: Stantec, AEP, NLCD, NAOS
 3. Orthophotography: 2015 World Imagery USDA FSA



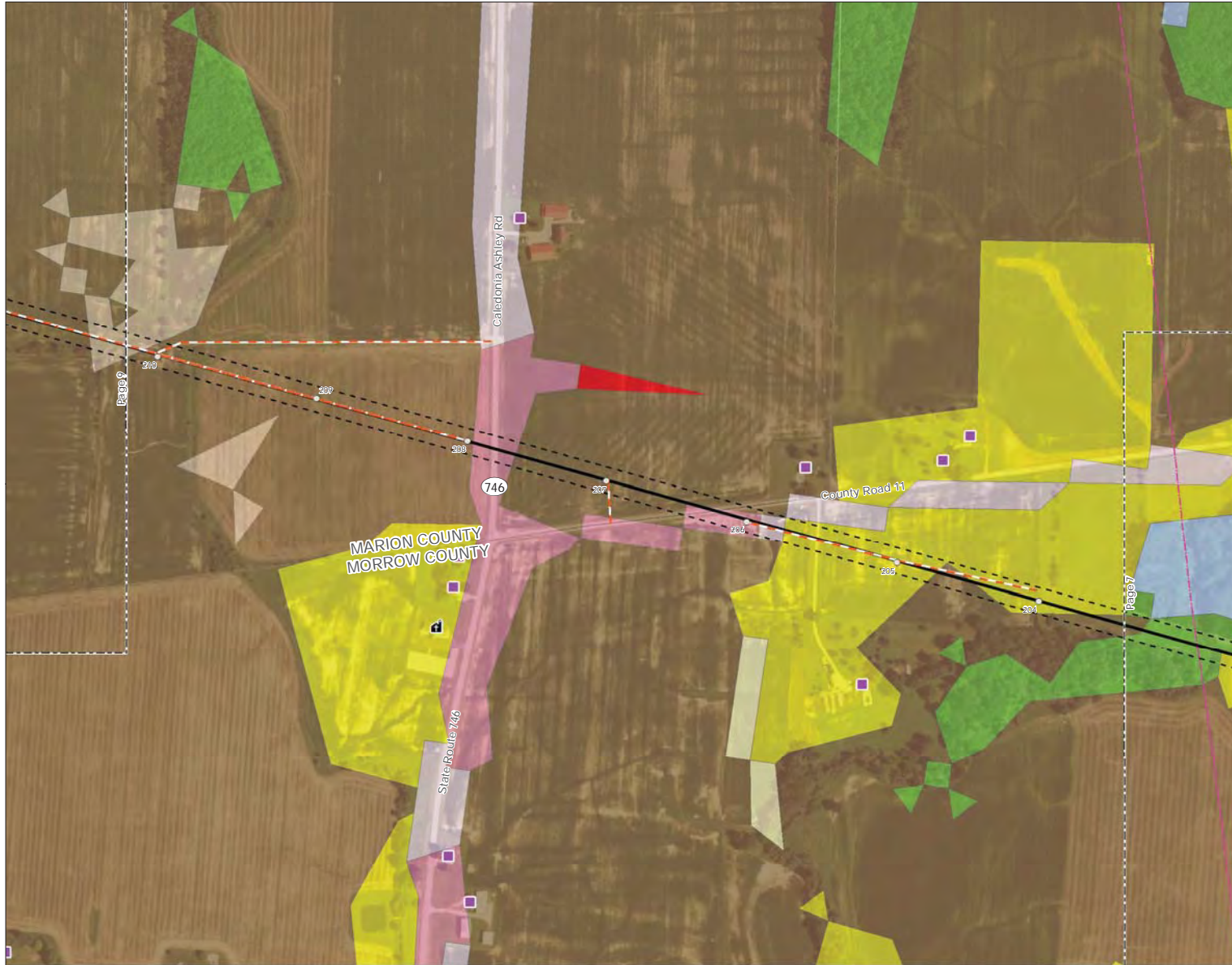


Figure No.
1.3

Land Use Map

Client/Project
AEP Ohio Transmission Company
Fulton Station - Windfall Switch
138 kV Transmission Line Rebuild Project

Project Location
Marion County, Ohio

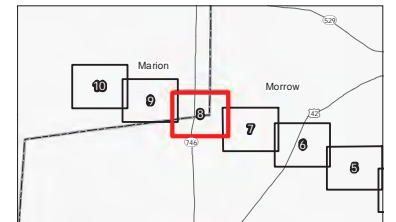
193704279
Prepared by HDB on 2016-09-19
Technical Review by JDP on 2016-09-20
Independent Review by DJG on 2016-10-20



Legend

■ AEP Substation	National Land Cover Database
○ Structure to be Replaced	Open Water
~ 138 kV Transmission Line Rebuild	Developed, Open Space
- - - Access Road	Developed, Low Intensity
- - - Existing Transmission Line	Developed, Medium Intensity
- - - Existing 100-foot Right-of-Way	Deciduous Forest
■ Residence	Evergreen Forest
■ School*	Shrub/Scrub
■ Cemetery	Grassland/Herb...
■ Church	Pasture/Hay
■ Agricultural District Parcel	Cultivated Crops
	Woody Wetlands

*No feature within map extents.



- Notes**
1. Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet
 2. Data Sources Include: Stantec, AEP, NLCD, NADS
 3. Orthophotography: 2015 World Imagery USDA FSA





Figure No.
1.3

Title
Land Use Map

Client/Project
AEP Ohio Transmission Company
Fulton Station - Windfall Switch
138 kV Transmission Line Rebuild Project

Project Location
Marion County, Ohio

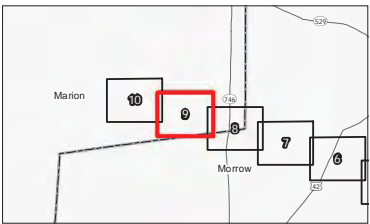
193704279
Prepared by HDB on 2016-09-19
Technical Review by JDP on 2016-09-20
Independent Review by DJG on 2016-10-20



Legend

- | | |
|---|---|
| <ul style="list-style-type: none">AEP SubstationStructure to be Replaced138 kV Transmission Line RebuildAccess RoadExisting Transmission LineExisting 100-foot Right-of-WayResidenceSchool*CemeteryChurchAgricultural District Parcel | <p>National Land Cover Database</p> <ul style="list-style-type: none">Open WaterDeveloped, Open SpaceDeveloped, Low IntensityDeveloped, Medium IntensityDeciduous ForestEvergreen ForestShrub/ScrubGrassland/Herb...Pasture/HayCultivated CropsWoody Wetlands |
|---|---|

*No feature within map extents.



- Notes
- Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet
 - Data Sources Include: Stantec, AEP, NLCD, NADS
 - Orthophotography: 2015 World Imagery USDA FSA



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Figure No.
1.3

Land Use Map

Client/Project
AEP Ohio Transmission Company
Fulton Station - Windfall Switch
138 kV Transmission Line Rebuild Project

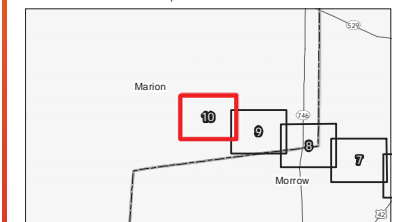
Project Location
Marion County, Ohio
Prepared by HDB on 2016-09-19
Technical Review by JDP on 2016-09-20
Independent Review by DJG on 2016-10-20



Legend

- | | |
|---|---|
| <ul style="list-style-type: none"> AEP Substation Structure to be Replaced 138 kV Transmission Line Rebuild Access Road Existing Transmission Line Existing 100-foot Right-of-Way Residence School* Cemetery Church Agricultural District Parcel | <p>National Land Cover Database</p> <ul style="list-style-type: none"> Open Water Developed, Open Space Developed, Low Intensity Developed, Medium Intensity Deciduous Forest Evergreen Forest Shrub/Scrub Grassland/Herb... Pasture/Hay Cultivated Crops Woody Wetlands |
|---|---|

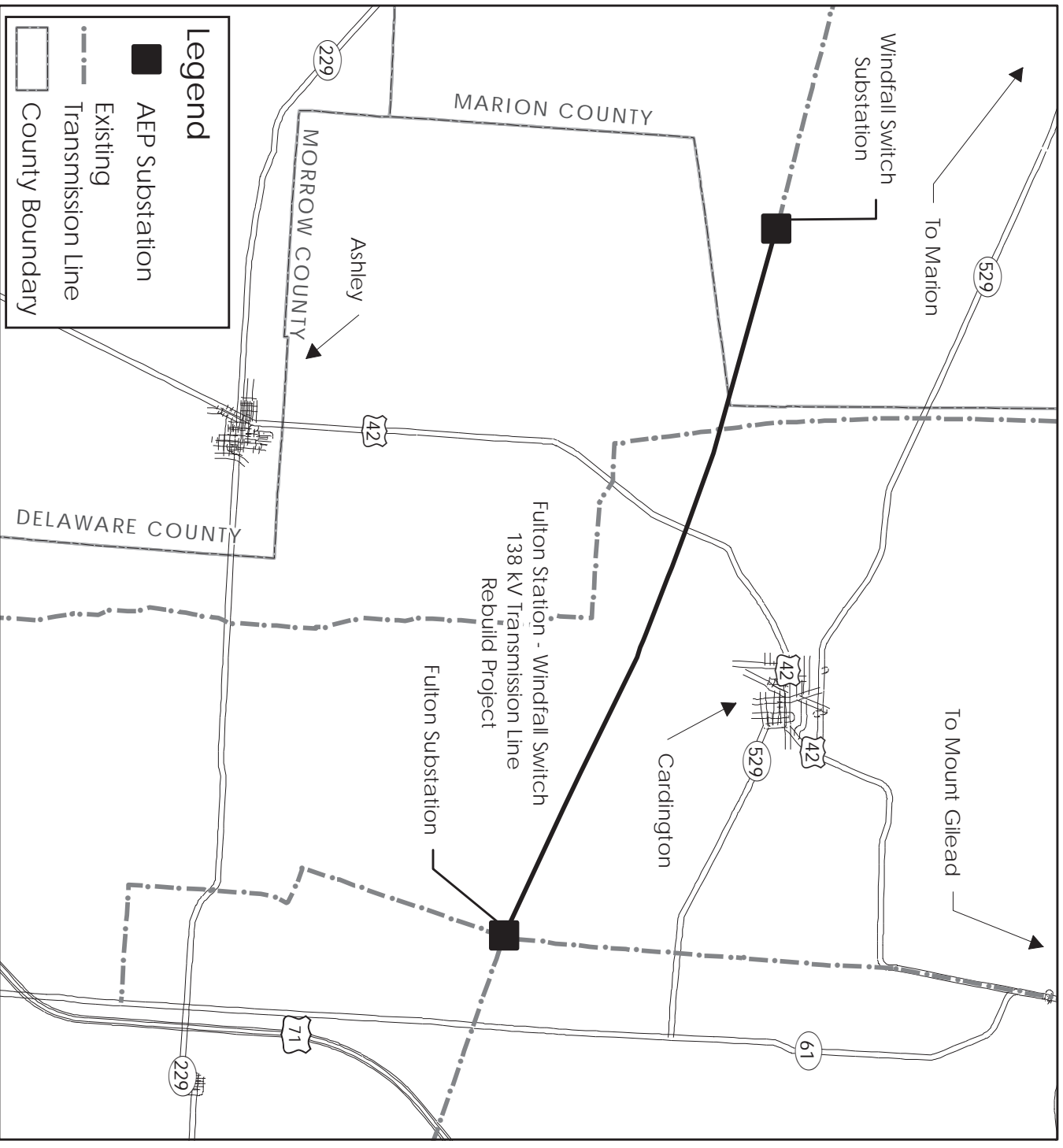
*No feature within map extents.



- Notes
- Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet
 - Data Sources Include: Stantec, AEP, NLCD, NADS
 - Orthophotography: 2015 World Imagery USDA FSA



Figure 1.4 - Concept Map



This foregoing document was electronically filed with the Public Utilities

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10/31/2016 1:37:33 PM

in

Case No(s). 16-1774-EL-BLN

Summary: Letter of Notification (1) electronically filed by Mr. Hector Garcia on behalf of AEP Ohio Transmission Company