

Legal Department

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

August 20, 2024

Chairperson Jenifer French Ohio Power Siting Board 180 East Broad Street Columbus, Ohio 43215-3979

Ohio Power Siting Board Docketing Division 180 East Broad Street Columbus, Ohio 43215-3979

Re: Case No. 24-0794-EL-BTA

In the Matter of the Amendment Application of AEP Ohio Transmission Company, Inc. for a Certificate of Environmental Compatibility and Public Need for the Vigo - Pine Ridge Switch 138 kV Transmission Line Project

Dear Chairperson French:

Attached, please find a copy of the Amendment Application of AEP Ohio Transmission Company, Inc. for a Certificate of Environmental Compatibility and Public Need ("Application") for the above-referenced project. This filing is made pursuant to O.A.C. 4906-4-01, *et seq.*, and 4906-2-01, *et seq.* 

Filing of this Amendment Application is effected electronically pursuant to O.A.C. 4906-2-02 (A) and (D). One printed copy of this filing will also be submitted to the Staff of the Ohio Power Siting Board for its use.

The following information is included pursuant to O.A.C. 4906-2-04(A)(3):

- (a) Applicant: AEP Ohio Transmission Company, Inc. c/o American Electric Power Energy Transmission 8600 Smiths Mill Road New Albany, Ohio 43054
- (b) Facilities to be Certified: Vigo-Pine Ridge Switch 138 kV Transmission Line Project

Hector Garcia Christen M. Blend Senior Counsel – Regulatory Services (614) 716-3410 (P) (614) 716-1915 (P) hgarcia1@aep.com cmblend@aep.com  (c) Applicant's Authorized Representative with respect to this Application: Cole Bachtel Senior Project Manager 8500 Smiths Mill Road New Albany, Ohio 43054

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

<u>/s/ Hector Garcia-Santana</u> Hector H. Garcia-Santana (0084517), Counsel of Record

Counsel for AEP Ohio Transmission Company, Inc.

cc: Executive Director and Counsel, c/o Jon Pawley, OPSB Staff



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# Application for Amendment #3 to the

# VIGO - PINE RIDGE SWITCH 138 kV TRANSMISSION LINE PROJECT

OPSB CASE NO. 24-0794-EL-BTA

Submitted pursuant to O.A.C. 4906-5

AEP Ohio Transmission Company, Inc.

August 2024

# **BEFORE THE OHIO POWER SITING BOARD**

# **Certificate Application for Electric Transmission Facilities**

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#### AMENDMENT CHANGE SUMMARY

AEP Ohio Transmission Company, Inc. ("AEP Ohio Transco" or "Company") submitted a Certificate Application to the Ohio Power Siting Board ("OPSB") on March 29, 2018, for the Vigo – Pine Ridge Switch 138 kV Transmission Line Project ("Project"). On February 21, 2019, the OPSB issued its Certificate of Environmental Compatibility and Public Need for the Preferred Route. The Company submitted an Application for Amendment to the Certificate Application to the OPSB on November 26, 2019 for the Project. On April 16, 2020, the OPSB issued its Certificate of Environmental Compatibility and Public Need for the Application for Amendment. The Company submitted a second Application for Amendment to the OPSB on July 26, 2021, for the Project. On October 21, 2021, the OPSB issued its Certificate of Environmental Compatibility and Public Need for the Application to the OPSB on July 26, 2021, for the Project. On October 21, 2021, the OPSB issued its Certificate of Environmental Compatibility and Public Need for the Application to the OPSB on July 26, 2021, for the Project. On October 21, 2021, the OPSB issued its Certificate of Environmental Compatibility and Public Need for the Application to the OPSB on July 26, 2021, for the Project. On October 21, 2021, the OPSB issued its Certificate of Environmental Compatibility and Public Need for the Application Amendment.

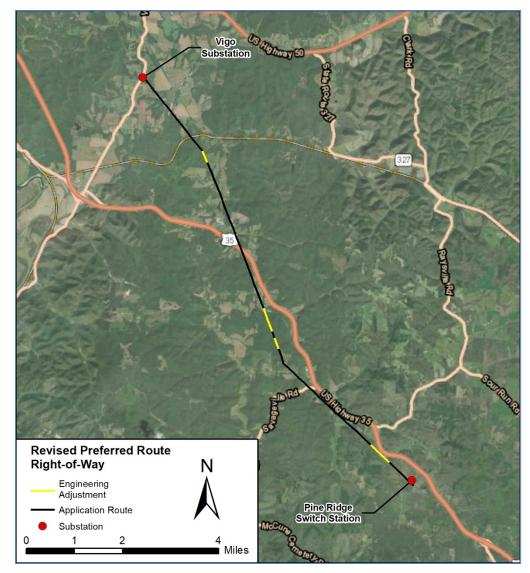
The purpose of Amendment #3 is to document the changes to the right-of-way ("ROW") widths at certain spans along the Preferred Route since the OPSB's approval of the Preferred Route, and to seek OPSB approval of the revised ROW widths. This Amendment #3 application does not provide updated information for the Alternate Route because the purpose of this amendment is to document the changes to ROW widths on the Preferred Route alignment that have been made since the OPSB's approval of the Preferred Route.

As detailed engineering of the transmission line progressed after submittal of the certificate amendment application in July 2021, it was determined by the Company's transmission line engineer that the ROW width needed to be expanded at six (6) transmission line spans to meet blowout requirements to safely operate the line at 138 kilovolts ("kV"). The Vigo – Pine Ridge transmission line is currently operating at 69 kV and meets all requirements within the acquired 100-foot-wide ROW. The line is designed to 138 kV standards to allow for a future voltage increase as local demand dictates. To meet the blowout requirements for 138 kV operation, the ROW must be widened between ten (10) and thirty (30) feet at six spans. These changes are categorized as engineering adjustments.

	mira Amenam	ent ROW whath increase	25
Structure Spans	Approved ROW Width	Proposed ROW Width	Easement Agreement/Option
	(ft)	(ft)	Obtained (Yes/No)
104 - 105	100	110	Yes
128 – 129	100	120	Yes
129 – 130	100	120	Yes
131 – 132	100	110	Yes
152 – 153	100	130	Yes
153 – 154	100	120	Yes

 Table 1

 Third Amendment ROW Width Increases



**EXHIBIT 1: Summary of Engineering Adjustments for ROW Width Increases** 

#### **Engineering Adjustments**

Six engineering adjustments were made along the OPSB-approved Preferred Route as shown in **Exhibit 1**. These engineering adjustments were made due to the need to increase the width of the transmission ROW to meet blowout requirements in order to safely operate the transmission line at 138 kV in the future, as local and regional electrical demand increases. By widening the ROW at these spans, the Company can remove trees that pose a risk to maintaining safe, reliable electrical service to their customers. These engineering adjustments are described in detail below in the series of **Exhibits 2 through 4.** The ROW has been widened at six spans, with the ROW being widened between ten and thirty feet.

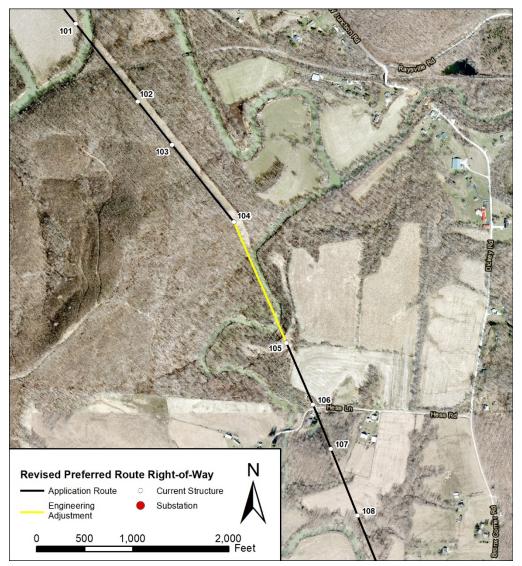
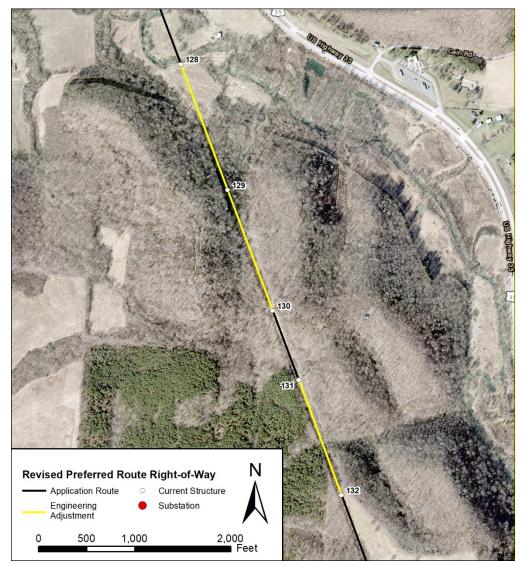


EXHIBIT 2: Map Illustration of Engineering Adjustments (Structures 104 to 105)

The original permanent easement was acquired at a width of 100 feet for the Vigo-Pine Ridge Transmission line from Vigo Station to the Pine Ridge Switch. Following completion and placing of the line into service, a subsequent engineering review of the line determined that additional ROW width is needed for the line span from Structure 104 to Structure 105 to meet the blowout requirements to operate the line at 138 kV in the future. Therefore, the ROW has widened to a total of 110 feet (an additional five feet added on each side of the ROW). EXHIBIT 3: Map Illustration of Engineering Adjustments (Structures 128 to 130 and Structures 131 to 132)



The original permanent easement was acquired at a width of 100 feet for the Vigo-Pine Ridge Transmission line from Vigo Station to the Pine Ridge Switch. Following completion and placing of the line into service, a subsequent engineering review of the line determined that additional ROW width is needed for the line span from Structure 128 to Structure 129, Structure 129 to Structure 130, and from Structure 131 to Structure 132 to meet the blowout requirements to operate the line at 138 kV in the future. For the spans from Structure 128 to Structure 129, and from Structure 129 to Structure 130, the ROW has widened to a total of 120 feet (an additional ten feet added on each side of the ROW). For the span from Structure 131 to Structure 132, the ROW has widened to a total of 110 feet (an additional five feet added on each side of the ROW).

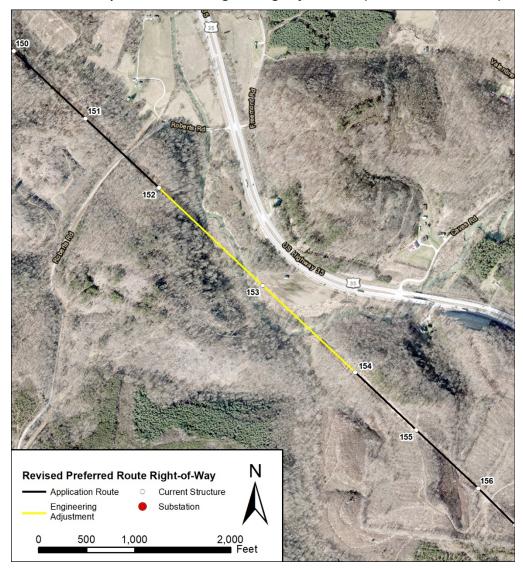


EXHIBIT 4: Map Illustration of Engineering Adjustments (Structures 152 to 154)

The original permanent easement was acquired at a width of 100 feet for the Vigo-Pine Ridge Transmission line from Vigo Station to the Pine Ridge Switch. Following completion and placing of the line into service, a subsequent engineering review of the line determined that additional ROW width is needed for the line span from Structure 152 to Structure 153, and from Structure 153 to Structure 154 to meet the blowout requirements to operate the line at 138 kV in the future. For the span from Structure 152 to Structure 153, the ROW has widened to a total of 130 feet (an additional fifteen feet added on each side of the ROW). For the span from Structure 153 to Structure 154, the ROW has widened to a total of 120 feet (an additional ten feet added on each side of the ROW).

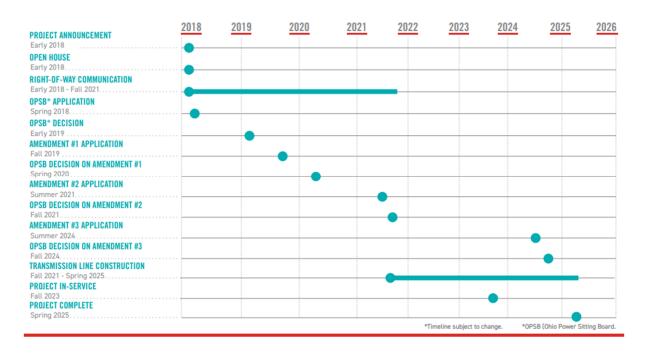
## 4906-4-02 PROJECT SUMMARY AND APPLICANT INFORMATION

Text provided in the March 29, 2018, <u>filing and the November 26, 2019, and July 26, 2021, application</u> <u>amendment filings remain</u> unchanged <u>as to any applicable requirements for this amendment</u>.

#### 4906-4-03 DETAILED PROJECT DESCRIPTION AND SCHEDULE

#### (A) **PROJECT SCHEDULE**

#### (1) Gantt Chart



#### (2) Construction Sequence

Text provided in the March 29, 2018, <u>filing and the November 26, 2019, and July 26, 2021,</u> <u>application amendment filings remain</u> unchanged <u>as to any applicable requirements for this</u> <u>amendment</u>.

#### (3) Project Area Description

The proposed ROW width is 100 feet, with the exception of the six spans subject to this <u>amendment filing</u>. Revised Table 5-1 provides information about the Preferred and Alternate Routes ROW acreage, length, and properties crossed based on the proposed centerline.

#### TABLE 5-1

Right-of-Way Area, Length, and Number of Properties Crossed

	Route Alt	ernatives
	Preferred	Alternate
Proposed ROW area (in acres)	<del>126.4</del> <u>130.2</u>	125.6
Length (in miles)	10.4	10.3
Number of Properties Crossed (by ROW)	85	82

#### (4) Proposed Installment Method

Text provided in the March 29, 2018, <u>filing and the November 26, 2019, and July 26, 2021,</u> <u>application amendment filings remain</u> unchanged <u>as to any applicable requirements for this</u> <u>amendment</u>.

#### (B) GENERATION FACILITY NEED

Text provided in the March 29, 2018, <u>filing and the November 26, 2019, and July 26, 2021,</u> <u>application amendment filings remain</u> unchanged <u>as to any applicable requirements for this</u> <u>amendment</u>.

#### (C) TRANSMISSION LINE NEED

Text provided in the March 29, 2018, <u>filing and the November 26, 2019, and July 26, 2021,</u> <u>application amendment filings remain</u> unchanged <u>as to any applicable requirements for this</u> <u>amendment</u>.

#### (D) BASIS FOR NEED

Text provided in the March 29, 2018, <u>filing and the November 26, 2019, and July 26, 2021,</u> <u>application amendment filings remain</u> unchanged <u>as to any applicable requirements for this amendment</u>.

## (E) GAS PIPELINE NEED

Text provided in the March 29, 2018, <u>filing and the November 26, 2019, and July 26, 2021,</u> <u>application amendment filings remain</u> unchanged <u>as to any applicable requirements for this</u> <u>amendment</u>.

#### 4906-4-04 PROJECT AREA SELECTION AND DESIGN

Text provided in the March 29, 2018, <u>filing and the November 26, 2019</u>, and July 26, 2021, application <u>amendment filings remain</u> unchanged <u>as to any applicable requirements for this amendment</u>.

#### 4906-4-05 ELECTRIC GRID INTERCONNECTION

Text provided in the March 29, 2018, <u>filing and the November 26, 2019, and July 26, 2021, application</u> <u>amendment filings remain</u> unchanged <u>as to any applicable requirements for this amendment</u>.

#### 4906-4-06 ECONOMIC IMPACT AND PUBLIC INTERACTION

Text provided in the March 29, 2018, <u>filing and the November 26, 2019</u>, and July 26, 2021, application <u>amendment filings remain</u> unchanged <u>as to any applicable requirements for this amendment</u>.

#### 4906-4-07 AIR, WATER, SOLID WASTE, AND AVIATION COMPLIANCE

Text provided in the March 29, 2018, <u>filing and the November 26, 2019, and July 26, 2021, application</u> <u>amendment filings remain</u> unchanged <u>as to any applicable requirements for this amendment</u>.

## 4906-5-08 HEALTH AND SAFETY, LAND USE, AND ECOLOGICAL INFORMATION

#### (A) Health and Safety

Text provided in the March 29, 2018, <u>filing and the November 26, 2019, and July 26, 2021, application</u> <u>amendment filings remain</u> unchanged <u>as to any applicable requirements for this amendment</u>.

#### (B) Ecological Resources

## (1) Ecological Information

Text provided in the March 29, 2018, <u>filing and the November 26, 2019, and July 26, 2021,</u> <u>application amendment filings remain</u> unchanged <u>as to any applicable requirements for this amendment</u>.

## (a) Map

Text provided in the March 29, 2018, <u>filing and the November 26, 2019, and July 26, 2021,</u> <u>application amendment filings remain</u> unchanged <u>as to any applicable requirements for this amendment</u>.

## (b) Field Survey Results

Text provided in the March 29, 2018, <u>filing and the November 26, 2019, and July 26, 2021,</u> <u>application amendment filings remain</u> unchanged <u>as to any applicable requirements for this</u> <u>amendment</u>.

## (c) Construction Impacts on Vegetation

The construction impacts on woody and herbaceous vegetation along both the Preferred and Alternate Route will be limited to the initial clearing of vegetation within the 100-foot wide ROW for the proposed transmission line and access roads. Preliminary locations for access roads have been identified and will be confirmed at the time of AEP Ohio Transco's transmission line easement acquisition process. Trees adjacent to the ROW that are dead, dying, diseased, leaning, significantly encroaching, or prone to failure may require clearing to allow for safe construction and operation of the transmission line. Vegetation waste (e.g., tree limbs and trunks) generated during the construction phase will be windrowed or chipped and disposed of appropriately depending on individual landowner requests. The approximate vegetation impacts along the Preferred and Alternate Route ROWs are provided in revised Table <u>8-1</u>.

Land Use Type	Length of Route (in feet)	Length of Route (in miles)	Acreage within ROW
Preferred Route			
Agricultural	1,068	0.2	<u>2.0 2.1</u>
Industrial / Commercial	0	0.0	0.1
Open Land / Pasture	13,975	2.6	46.3
Road / Railroad ROW	231	<0.1	0.7
Utility ROW	28,172	5.3	<u>47.8 50.3</u>
Water	1,268	0.2	<del>2.8</del> <u>3.0</u>
Woodlot	9,942	1.9	<del>25.1</del> 26.1
Alternate Route (Text provided in the March 29, 2018 <u>, filing and the November 26, 2019, and July 26, 2021, application amendment filings</u> remain unchanged.)			

#### **TABLE 8-1**

#### (d) Literature Survey of Plant and Animal Life Potentially Affected

Text provided in the March 29, 2018, filing and the November 26, 2019, and July 26, 2021, application amendment filings remain unchanged as to any applicable requirements for this amendment.

## (e) Results of Literature Survey of Plant and Animal Species

Text provided in the March 29, 2018, filing and the November 26, 2019, and July 26, 2021, application amendment filings remain unchanged as to any applicable requirements for this amendment.

## (f) Additional Studies Addressing Ecological Impacts

Text provided in the March 29, 2018, filing and the November 26, 2019, and July 26, 2021, application amendment filings remain unchanged as to any applicable requirements for this amendment.

## (2) Ecological Impacts

Text provided in the March 29, 2018, filing and the November 26, 2019, and July 26, 2021, application amendment filings remain unchanged as to any applicable requirements for this amendment.

## (3) Operation Impacts

Text provided in the March 29, 2018, filing and the November 26, 2019, and July 26, 2021,

application amendment filings remain unchanged as to any applicable requirements for this amendment.

## (4) Mitigation Procedures

Text provided in the March 29, 2018, <u>filing and the November 26, 2019, and July 26, 2021,</u> <u>application amendment filings remain</u> unchanged <u>as to any applicable requirements for this amendment</u>.

## (C) Land Use and Community Development

## (1) Existing Land Uses

## (a) Map of Existing Land Use

Text provided in the March 29, 2018, <u>filing and the November 26, 2019, and July 26, 2021,</u> <u>application amendment filings remain</u> unchanged <u>as to any applicable requirements for this</u> <u>amendment</u>.

## (b) Impact on Identified Structures

Text provided in the March 29, 2018, <u>filing and the November 26, 2019, and July 26, 2021,</u> <u>application amendment filings remain</u> unchanged <u>as to any applicable requirements for this</u> <u>amendment</u>.

# (c) Impact on Existing Land Use

Comparisons of the various land use types and land use features for both routes are included in revised Tables 8-2 through 7-6 for the Preferred and Alternate Route. The estimates (i.e., linear feet, acreage, and percentages) of each land use type being crossed by the transmission line, land use within the 100 foot wide construction ROW (varying from 100 to 130-feetwide), and the permanent 100 foot-wide ROW (varying from 100 to 130-feet-wide) were determined using GIS software calculations. The potential disturbance area during construction activities (e.g., vegetation clearing, pole installations, etc.) consists of the 100foot wide construction ROW, which is 100-feet-wide, with the exception of the six spans which have expanded ROW widths to meet blowout requirements. The 100 foot wide permanent ROW will be restored through soil grading, seeding, and mulching, thus the permanent impact to the ROW is primarily limited to the removal of existing trees and other vegetation. Property owners may continue to utilize most of the ROW area for general uses that will not affect the safe and reliable operation of the transmission line such as lawn maintenance or agricultural crop production. Some portions of the existing ROW within the rebuild segment(s) may also be used as pasture or hayfield. However, the utility ROW land use is the primary land use for these areas along the proposed centerline. Therefore, these areas are categorized as Utility ROW in revised Table <u>8-2</u>. Additionally, revised Table <u>7-6</u> shows an acreage for Agriculture Land. This acreage accounts for the additional 50' of ROW width in the rebuild segment, outside of the ROW of the existing 69kV line.

	Preferred Route <sup>a</sup>		Alternate Route <sup>a</sup>	
Land Use	Acreage	Percent	Acreage	Percent
Agriculture Land	<del>2.0</del> 2.1	2	1.3	1
Industrial/Commercial	0.1	< 1	0.1	< 1
Open Land/Pasture	46.3	<del>37</del> <u>36</u>	44.2	35
Residential	1.6	1	1.8	1
Institutional	0.0	0	0.0	0
Recreational	0.0	0	0.0	0
Road Right-of-Way	0.7	<u> </u>	0.6	< 1
Utility Right-of-Way	4 <del>7.8</del> 50.3	<del>38</del> <u>39</u>	62.5	50
Woodlot	<del>25.1</del> 26.1	20	12.5	10
Water/Wetlands	<del>2.8</del> <u>3.0</u>	2	2.5	2
Total	<del>126.4</del> <u>130.2</u>	100	125.6	100

#### TABLE <u>8-2</u>

Acreage and Percent of Land Uses Crossed by the Proposed 100-foot Right-of-Way

Note:

<sup>a</sup> The planned potential disturbance area is a nominal 100-foot-wide corridor centered on the route. The permanent ROW is the same as the construction ROW.

## (d) Structures to be removed or relocated

Text provided in the March 29, 2018, <u>filing and the November 26, 2019, and July 26, 2021,</u> <u>application amendment filings remain</u> unchanged <u>as to any applicable requirements for this</u> <u>amendment</u>.

#### (2) Wind Farm

Not an applicable requirement for this amendment.

#### (3) Setback Waivers

Not an applicable requirement for this amendment.

## (4) Land Use Plans

Text provided in the March 29, 2018, <u>filing and the November 26, 2019, and July 26, 2021,</u> <u>application amendment filings remain</u> unchanged <u>as to any applicable requirements for this amendment</u>.

## (D) CULTURAL AND ARCHAEOLOGICAL RESOURCES

Text provided in the March 29, 2018, <u>filing and the November 26, 2019, and July 26, 2021, application</u> <u>amendment filings remain</u> unchanged <u>as to any applicable requirements for this amendment</u>.

## (E) AGRICULTURAL DISTRICTS AND AGRICULTURAL LAND IMPACTS

The potential impacts of the Project on agricultural land use include damage to crops that may be present, disturbance of underground field drainage systems, compaction of soils and temporary reduction of crop productivity. Agricultural land within the Preferred and Alternate Route ROWs is estimated at 2.0 2.1 acres and 1.3 acres, respectively. Other agricultural pastureland comprises 46.3 acres of the Preferred Route and 44.2 acres of the Alternate Route.

Soil compaction resulting from construction activities is typically a temporary issue and is resolved within a few seasons of plowing and tilling. AEP Ohio Transco will work with the agricultural landowners to resolve conflicts with drainage tiles and irrigation systems that are affected by the Project where necessary.

# (1) Agricultural Land Map

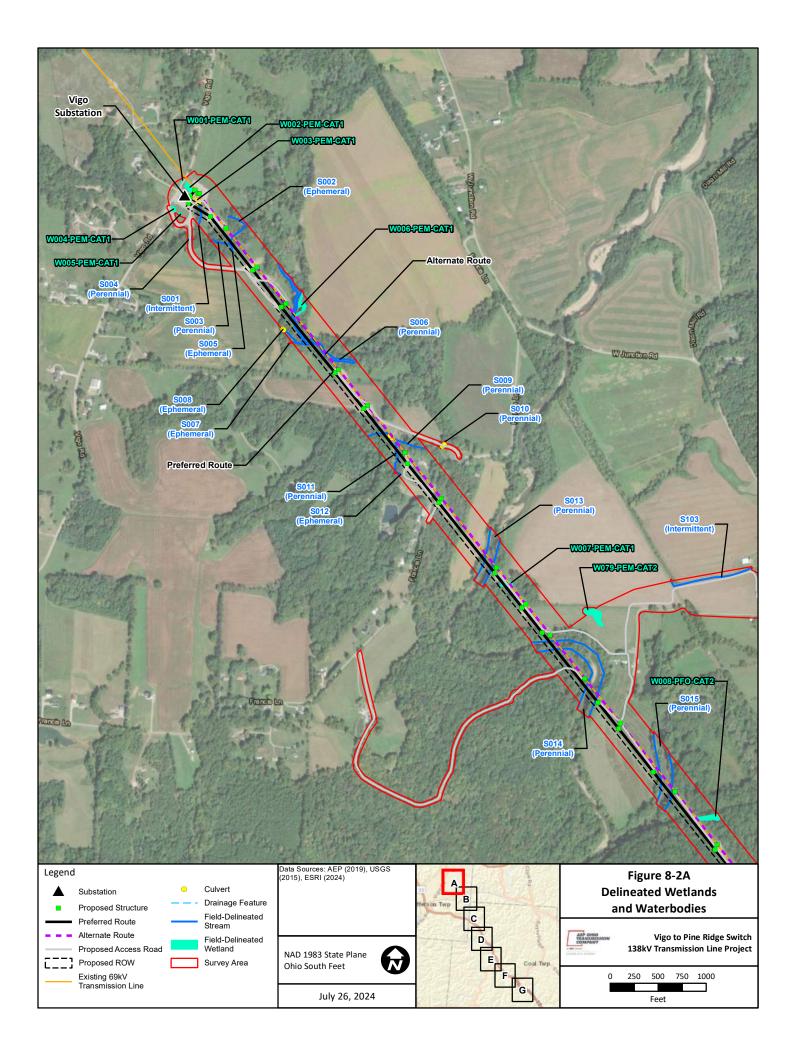
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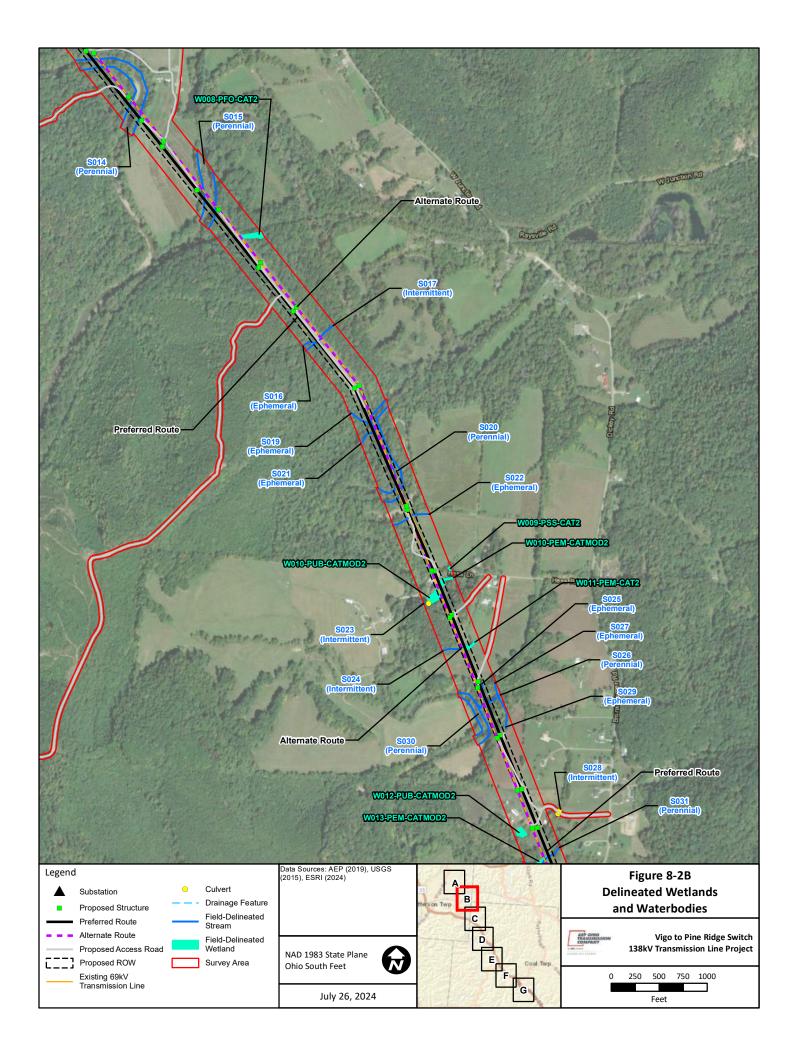
# (2) Impacts to Agricultural Lands and Agricultural Districts

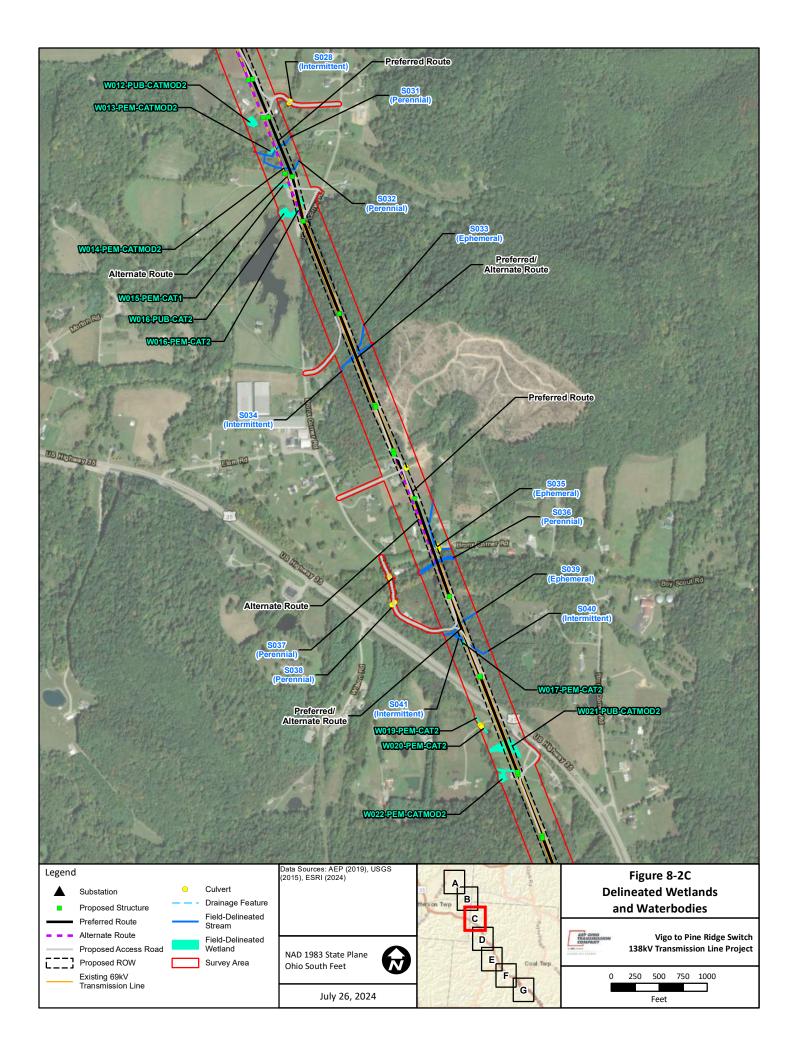
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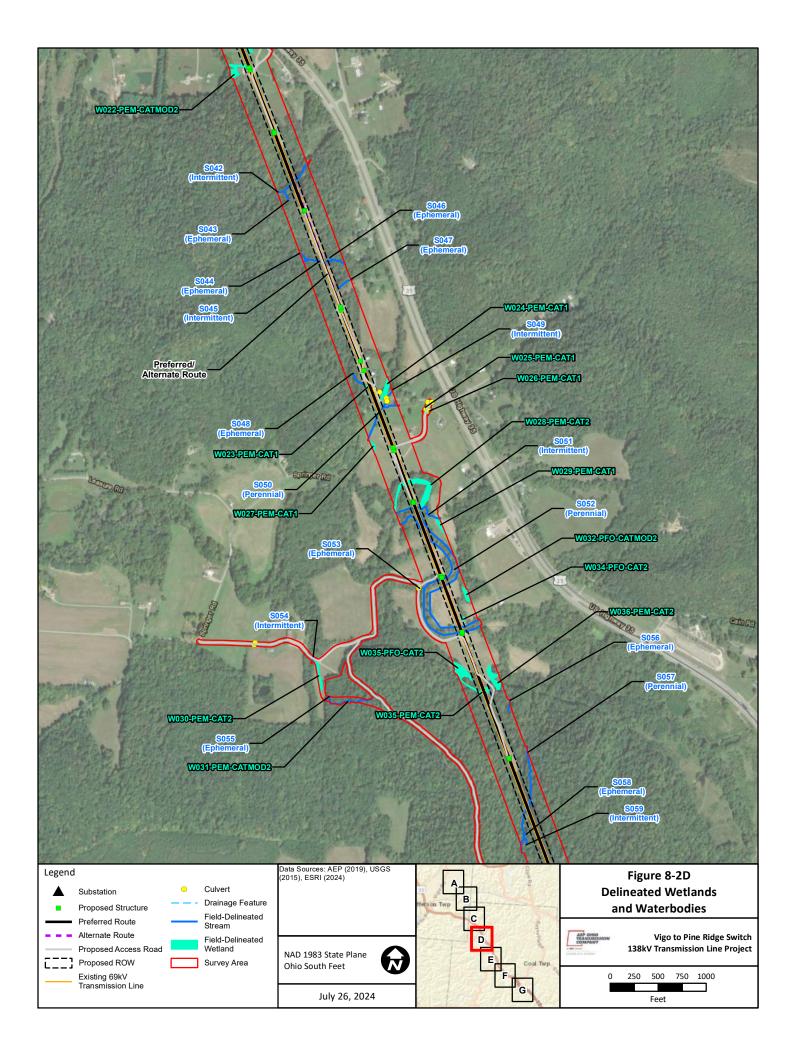
## (3) Drain Tiles

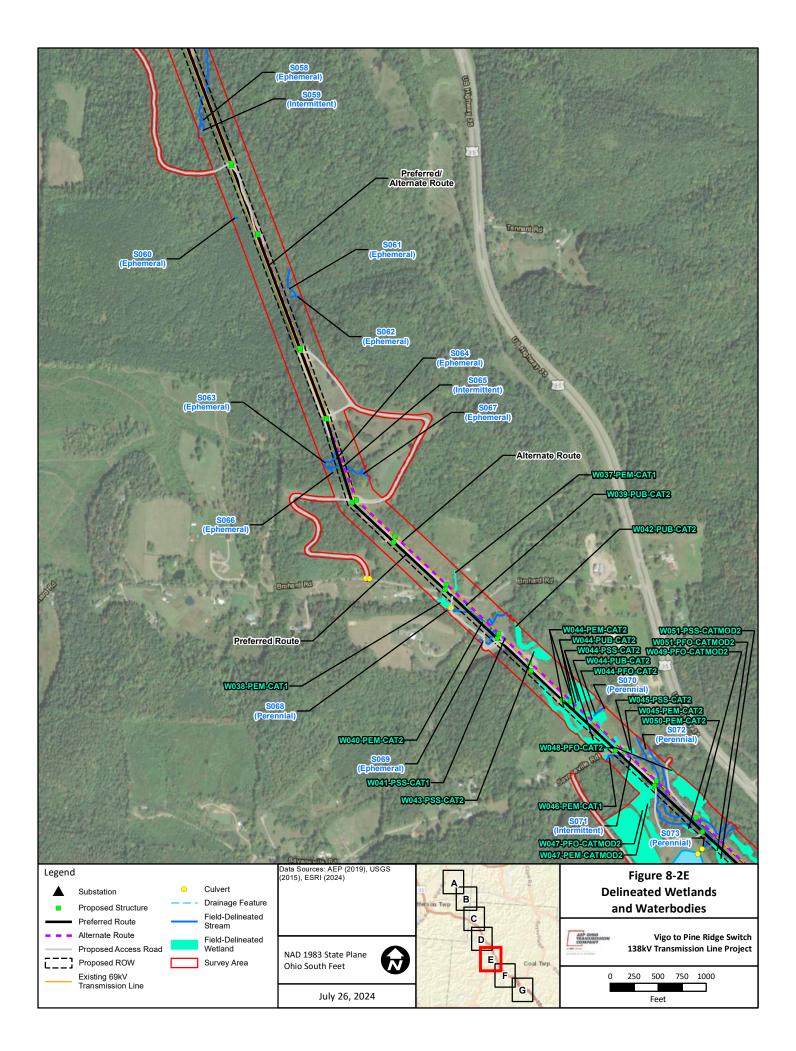
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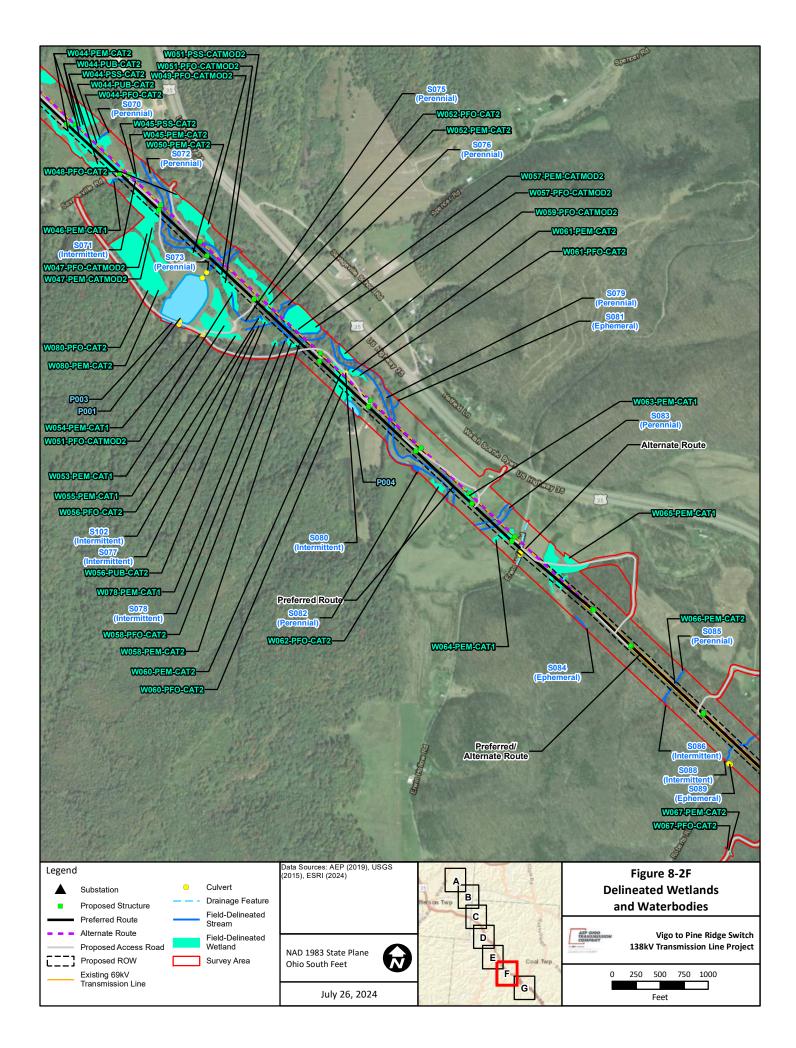


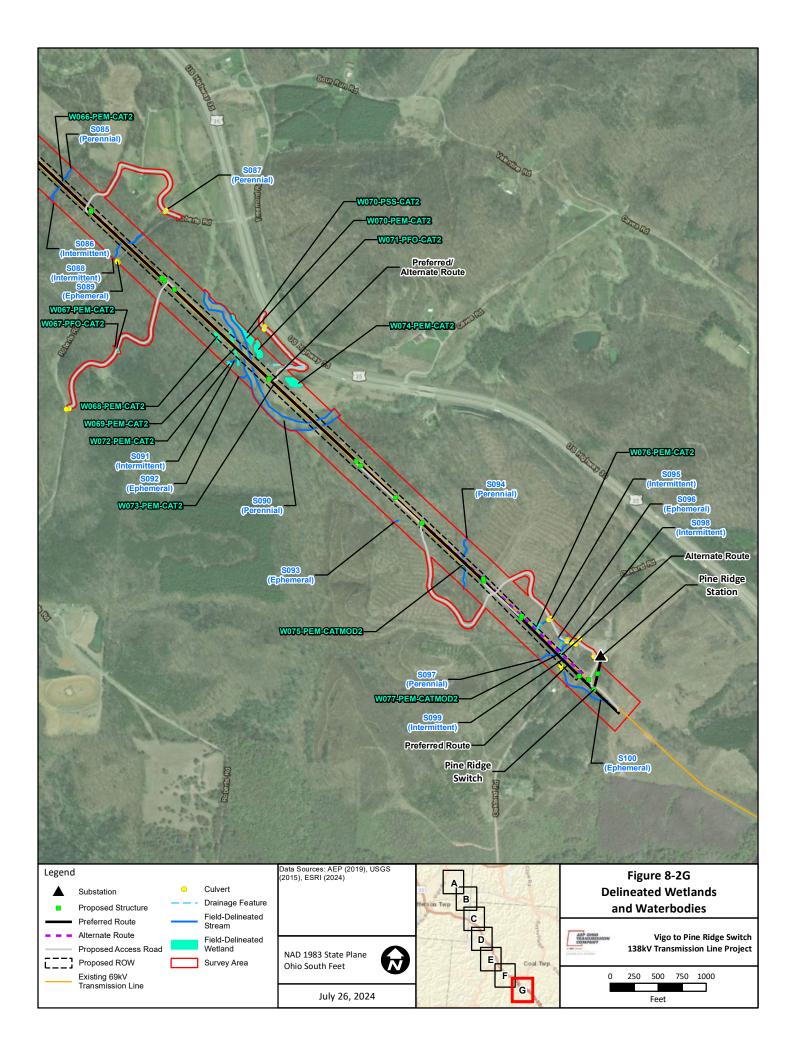












Appendix 5-1. Long-Term Forecast Report of AEP Ohio Transco

		PUCO Form FE-T9: Ohio Transmission Company Specifications of Planned Electric Transmission Lines
12	CONSEQUENCES OF LINE CONSTRUCTION DEFERMENT OR TERMINATION	Continued poor reliability, risk of equipment failure
13	MISCELLANEOUS:	N/A
~		Heppner - Vigo (s1432 A16801111) MP0004423
7	POINTS OF ORIGIN AND TERMINATION	Heppner, Vigo; INTERMEDIATE STATION - N/A
ო	RIGHTS-OF-WAY: LENGTH / WIDTH / CIRCUITS	~18.6 mi / 100 ft / 1 circuit
4	VOLTAGE: DESIGN / OPERATE	138kV / 69kV
5	R	Full Application 2018
9	CONSTRUCTION:	2021-24
2	<b>CAPITAL INVESTMENT:</b>	\$29M
ω	PLANNED SUBSTATION:	NAME - Heppner; TRANSMISSION VOLTAGE - 69kV; ACREAGE - 5; LOCATION - Jackson, Ohio
ດ	SUPPORTING STRUCTURES:	Steel H-frame
10	PARTICIPATION WITH OTHER UTILITIES	N/A
11	PURPOSE OF THE PLANNED TRANSMISSION LINE	Rebuild of existing 69kV line, asset renewal of aging infrastructure
12		CONSEQUENCES OF LINE CONSTRUCTION DEFERMENT OR TERMINATION
13		N/A
~ ~	LINE NAME AND NUMBER: POINTS OF ORIGIN AND TERMINATION	Hopetown - Delano (b1032) TP2018194 Hopetown, Delano; INTERMEDIATE STATION - N/A