

# Sub Regional RTEP Committee: Western AMPT Supplemental Projects

February 18, 2022

# Needs

Stakeholders must submit any comments within 10 days of this meeting in order to provide time necessary to consider these comments prior to the next phase of the M-3 process

# AMPT Projects in ATSI Transmission Zone M3 Process Pioneer, Ohio

**Need Number:** AMPT-2022-001

**Process Stage:** Need Meeting

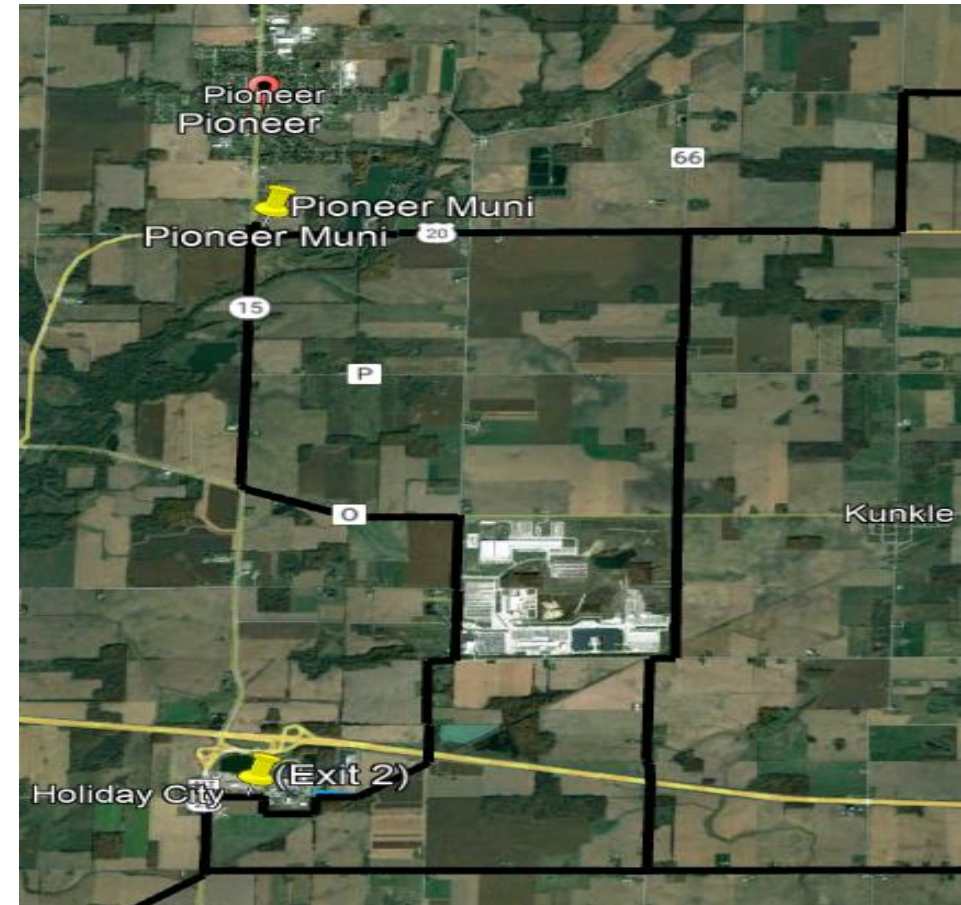
**Supplemental Project Driver(s):** Customer Service

**Specific Assumption Reference(s):** AMPT Transmission Facilities Interconnection Requirements Document

**Problem Statement:**

New Customer Connection – The Village of Pioneer has requested a new 69 kV service point near the AMPT tap off ATSI’s East Fayette-Exit 2 69 kV line. This request was made to support a new retail customer with an anticipated load of approximately 16 MVA.

Customer requested an in-service date of 7/2023.



# AMPT Projects in ATSI Transmission Zone M3 Process Pioneer, Ohio

**Need Number:** AMPT-2022-002

**Process Stage:** Need Meeting

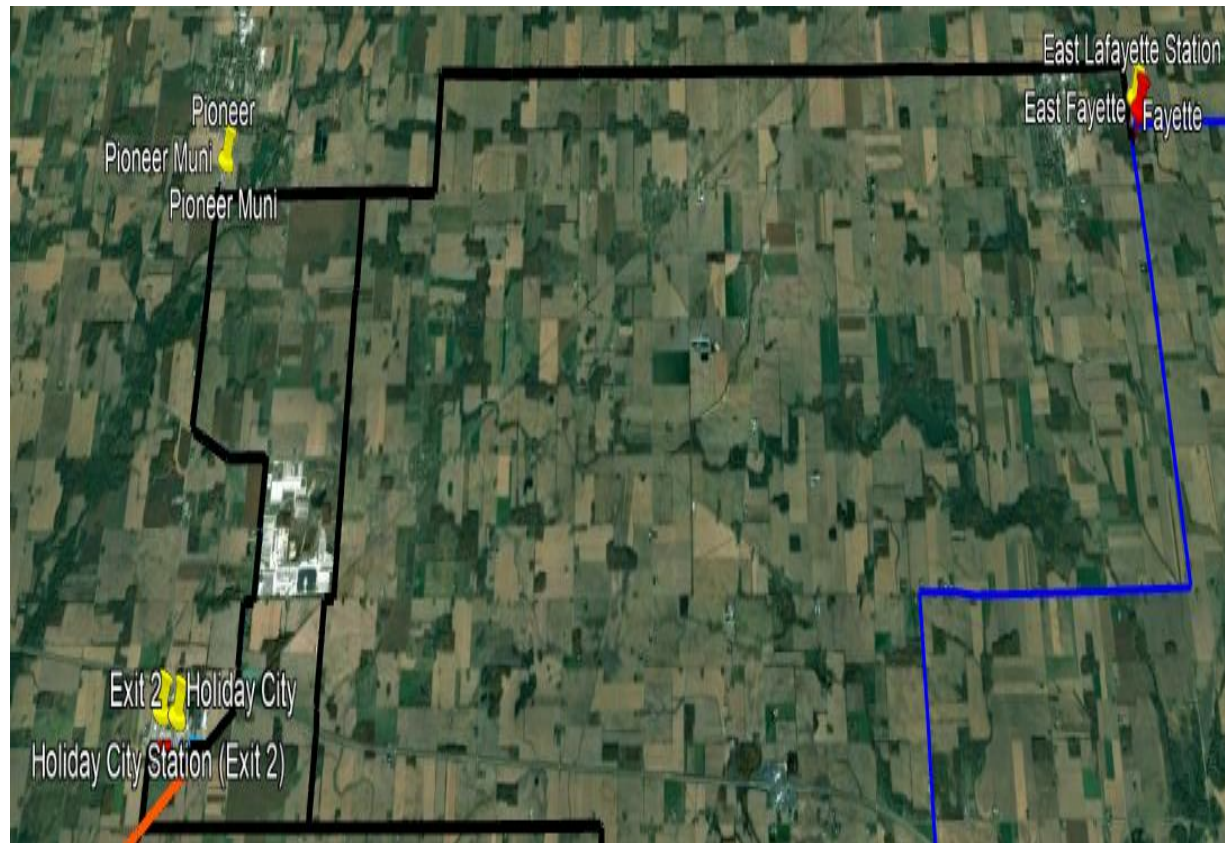
**Supplemental Project Driver(s):** Customer Service

**Specific Assumption Reference(s):** AMPT Transmission Facilities Interconnection Requirements Document

**Problem Statement:**

The existing interconnection is an approximately 2 mile radial 69 kV tap off ATSI's East Fayette-Exit 2 69 kV line which supplies the Pioneer 69/12 kV substation.

The current peak load at Pioneer is 8 MW. A 2<sup>nd</sup> supply is needed per AMPT interconnection requirements criteria. The radial supply presents a single point of failure that jeopardizes reliability for the village.



# Solutions

Stakeholders must submit any comments within 10 days of this meeting in order to provide time necessary to consider these comments prior to the next phase of the M-3 process



# AMPT Projects in ATSI Transmission Zone M3 Process Amherst, OH

**Need Number:** AMPT-2021-005

**Process Stage:** Solution Meeting – 2/18/2022

**Process Stage:** Need Meeting – 11/19/2021

**Supplemental Project Driver(s):** Customer Service

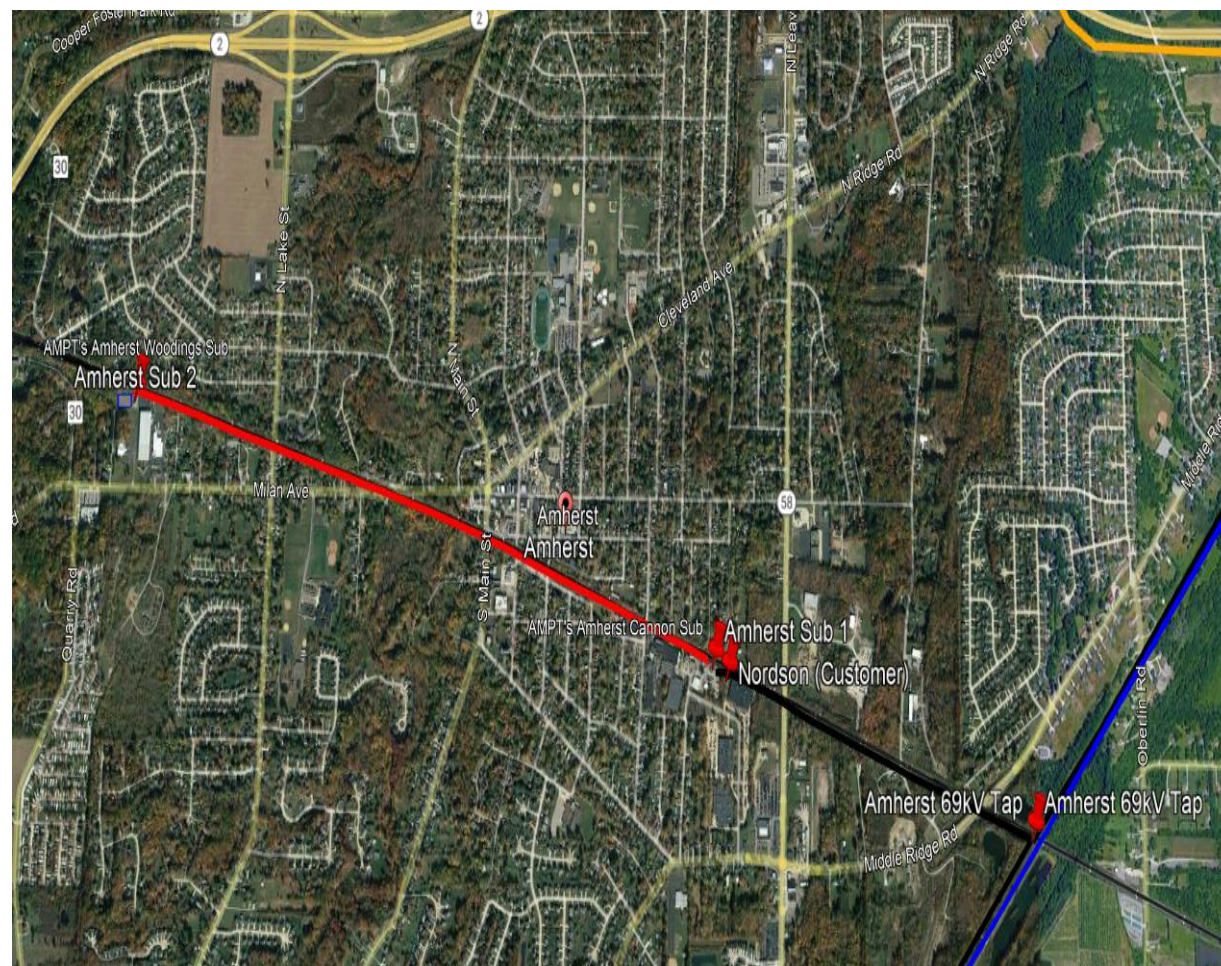
**Specific Assumption Reference(s):** AMPT Transmission Facilities Interconnection Requirements Document

## **Problem Statement:**

AMPT's Amherst Tap is an approximately 1.85 mile segment of a 2.85 mile radial tap supplied from ATSI's Henrietta-Johnson 69 kV line. Two stations are served off the Tap – Woodings and Cannon.

The City of Amherst has requested a 2<sup>nd</sup> supply to support the load (approximately 28 MVA). The radial supply presents a single point of failure that jeopardizes reliability for the City.

AMPT's Transmission Facilities Interconnection Requirements specify looped facilities for loads exceeding 5 MVA or 35 MW-mile thresholds.



# AMPT Projects in ATSI Transmission Zone M3 Process Amherst, OH

**Need Number:** AMPT-2021-005

**Process Stage:** Solution Meeting – 2/18/2022

**Supplemental Project Driver(s):** Customer Service

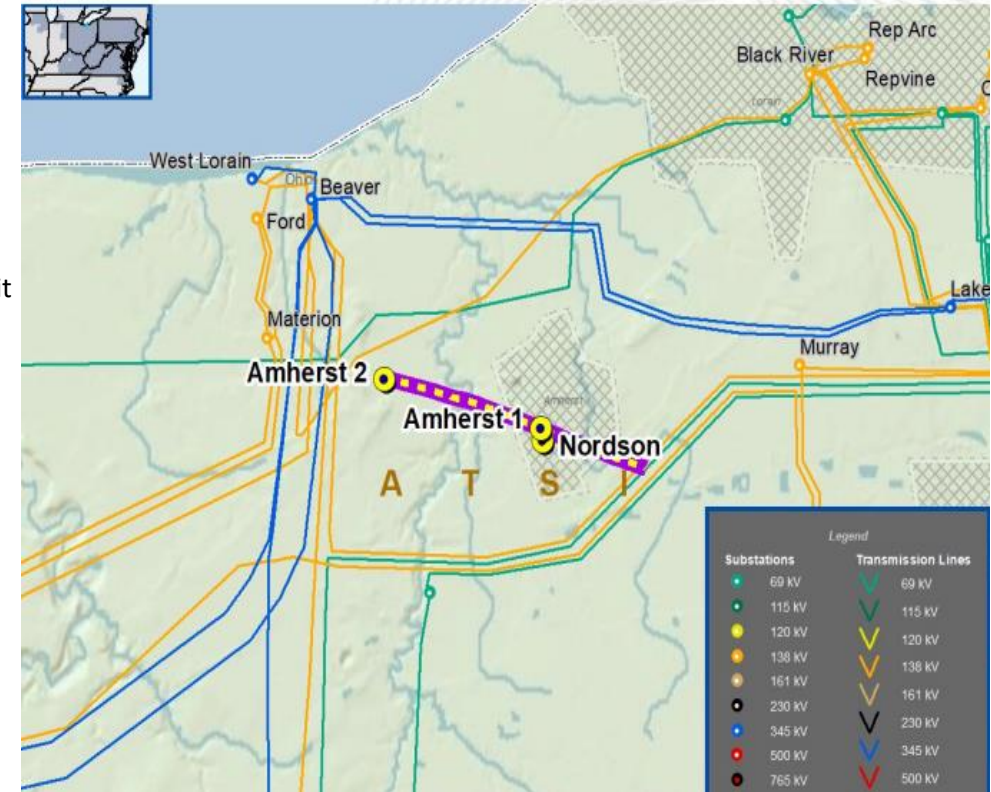
## Proposed Solution:

### AMPT Identified Scope

- Construct a greenfield 138 kV double circuit line for approximately 0.4 miles using 954 54/7 kcmil ACSS conductor and tap into the existing Beaver-Black River (ATSI) 138 kV line. **(\$1.53 M)**
- At Woodings (Amherst Sub #2) 69/12 kV Substation - Expand the sub with the installation of three (3) 138 kV circuit breakers; Install one (1) 138/69/12kV 130 MVA transformer; upgrade the 69 kV bus to 2000A, install two (2) 69 kV circuit breakers **(\$8.8 M)**
- At Cannon (Sub #1) 69/12 kV Substation - Install one (1) 69 kV breaker towards Nordson; Replace 600A bus disconnect switch with one rated at 1200A **(\$0.92 M)**

### ATSI Identified Scope **(\$2.8 M)**

- Design and construct tap structure(s) at tap location
- Upgrade line relaying with new panel at Black River
- Upgrade line relaying with new panel at Beaver
- Install/complete fiber connection to Beaver and Black River substations
- Provide/install four (4) 69 kV revenue metering equipment packages at Amherst Muni substations





# AMPT Projects in ATSI Transmission Zone M3 Process Amherst, OH

**Need Number:** AMPT-2021-005

**Process Stage:** Solution Meeting – 2/18/2022

**Supplemental Project Driver(s):** Customer Service

**Proposed Solution:** Continued

**Alternatives Considered:**

- Rebuild existing 69 kV line between Woodings and Cannon substation to 69 kV double circuit configuration.
- This option was not selected as a tower outage would still interrupt all the load in the area, temporary facilities would be required during construction, and limited additional ROW.

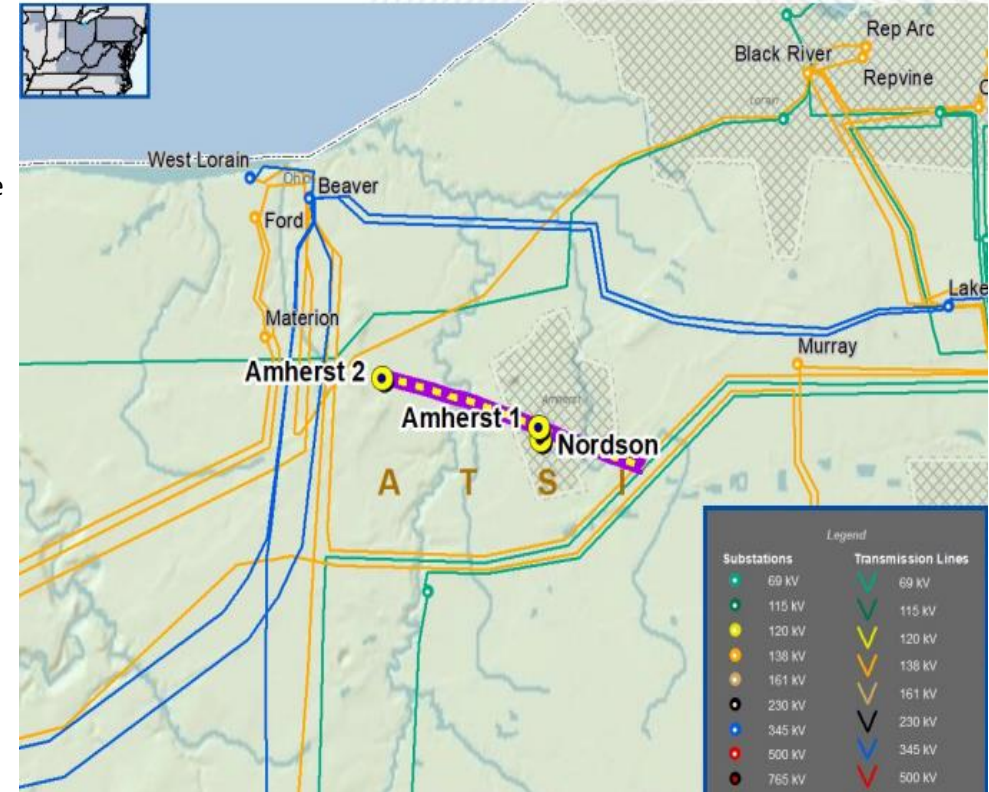
**Ancillary Benefits:**

This project to be sequenced prior to FE's project to build the new Dewey 69 kV Substation (s1948). This project will accommodate that work to be completed without the need for temporary facilities.

**Total Estimated Transmission Cost:** \$14.05 M

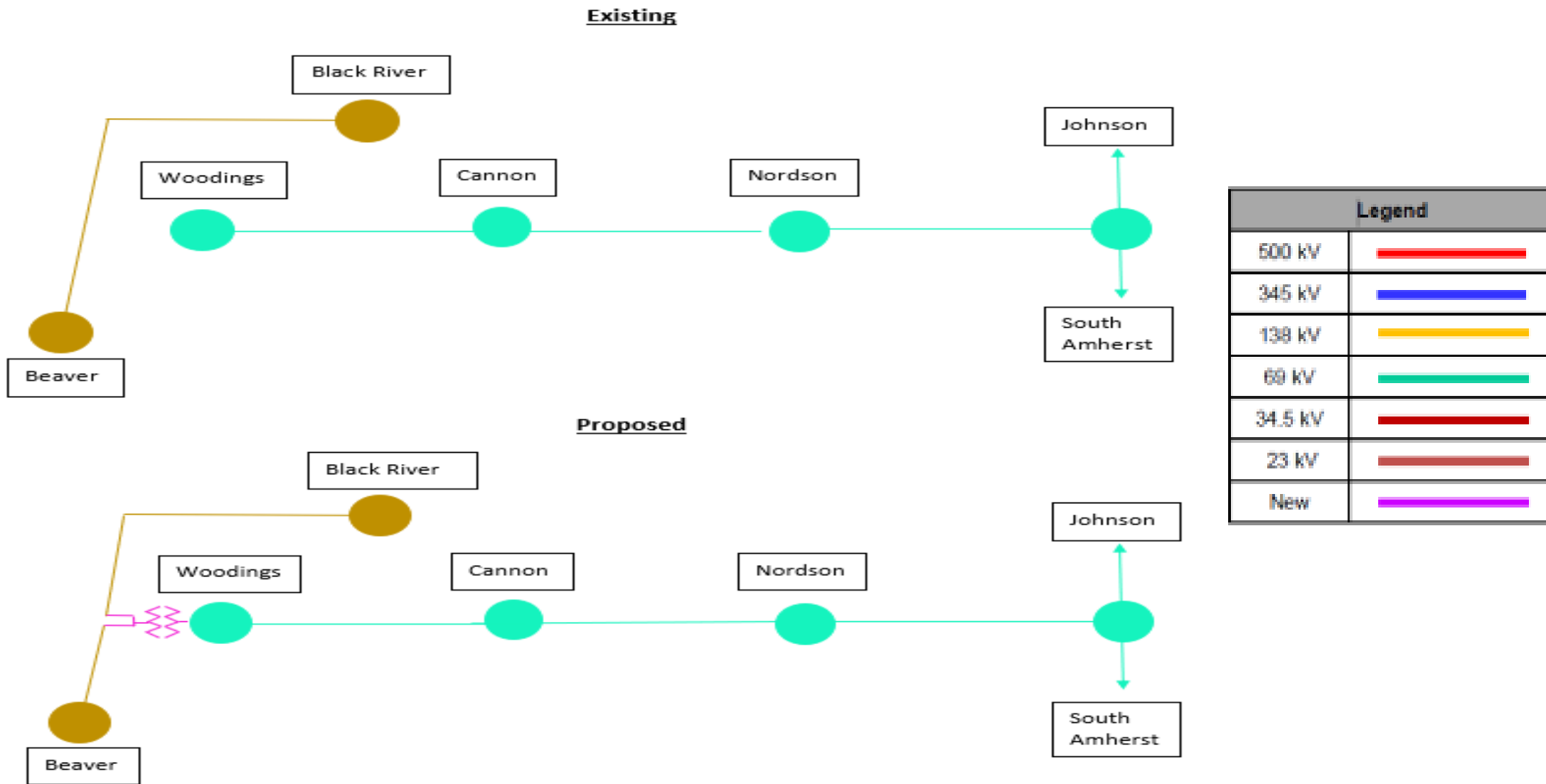
**Projected In-Service:** 12/31/2023

**Project Status:** Engineering





# AMPT Projects in ATSI Transmission Zone M3 Process Amherst, OH



# Appendix

# High Level M-3 Meeting Schedule

Assumptions	Activity	Timing
	Posting of TO Assumptions Meeting information	20 days before Assumptions Meeting
	Stakeholder comments	10 days after Assumptions Meeting
Needs	Activity	Timing
	TOs and Stakeholders Post Needs Meeting slides	10 days before Needs Meeting
	Stakeholder comments	10 days after Needs Meeting
Solutions	Activity	Timing
	TOs and Stakeholders Post Solutions Meeting slides	10 days before Solutions Meeting
	Stakeholder comments	10 days after Solutions Meeting
Submission of Supplemental Projects & Local Plan	Activity	Timing
	Do No Harm (DNH) analysis for selected solution	Prior to posting selected solution
	Post selected solution(s)	Following completion of DNH analysis
	Stakeholder comments	10 days prior to Local Plan Submission for integration into RTEP
	Local Plan submitted to PJM for integration into RTEP	Following review and consideration of comments received after posting of selected solutions

# Revision History

2/\*\*/2022 – V1 – Original version posted to pjm.com