

Subregional RTEP Committee – Western  
AMPT Supplemental Projects

**Need Number:** AMPT-2024-001

**Process Stage:** Submission of Supplemental Project for Inclusion in the Local Plan – 05/11/2026

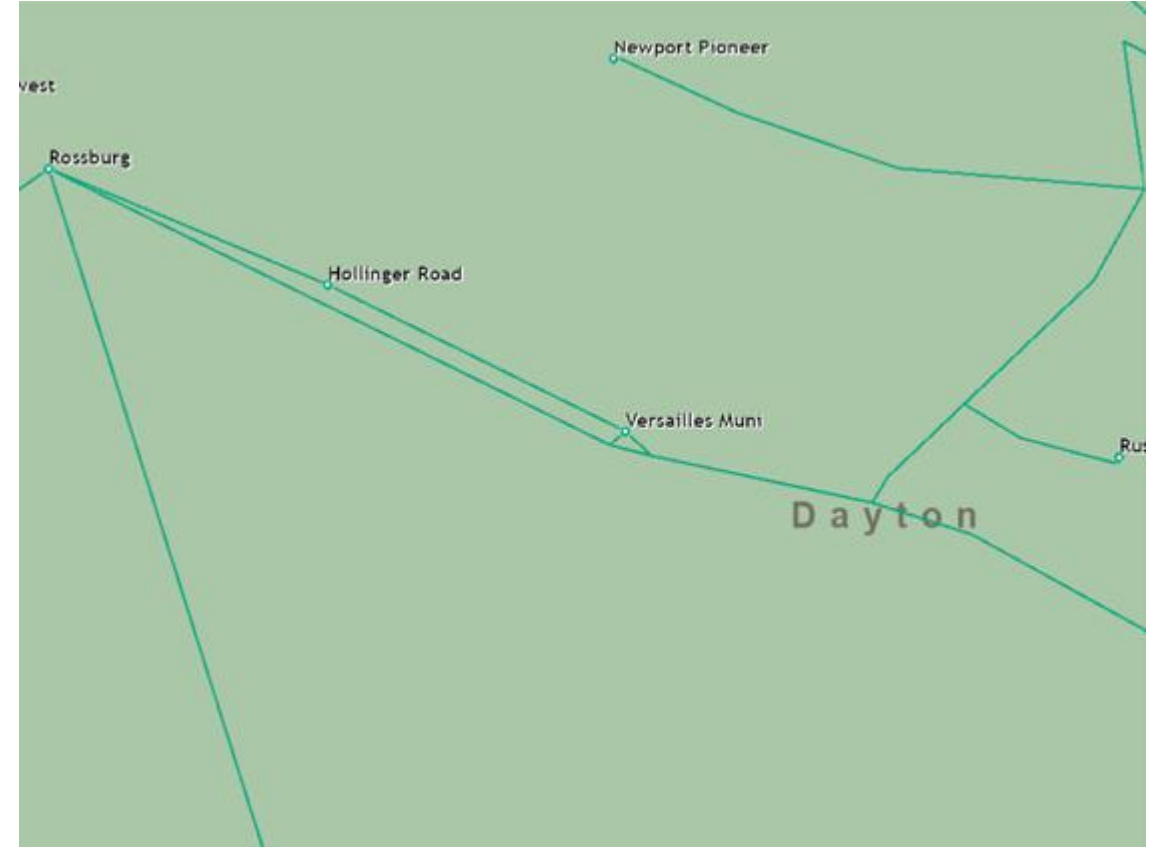
**Previously Presented:** Solution Meeting – 2/14/2025, Need Meeting – 4/19/2024

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

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

**Problem Statement:**

New Customer Connection – The Village of Versailles has submitted a request for a new 69kV service point near the AMPT owned 69kV stations and transmission line, which is served off of AES' 6625 69kV line. The request was made to support new load increases in the area that totals approximately 6 MW. The City has requested an in-service date of 3/1/2027. Additionally, the village of Versailles has requested a 2nd supply to support the load. The radial supply presents a single point of failure that jeopardizes the reliability for the village. The existing interconnection is a radial 69kV tap off the 6625 69kV line. The current peak load at the Village of Versailles is 16 MW. AMPT's Transmission Facilities Interconnection Requirements specify looped facilities for loads exceeding 5 MW or 35 MW-mile radial thresholds.





# AMPT Projects in DAY Transmission Zone M3 Process Versailles, OH

**Need Number:** AMPT-2024-001

**Process Stage:** Submission of Supplemental Project for Inclusion in the Local Plan – 05/11/2026

**Previously Presented:** Solution Meeting – 2/14/2025

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

## Proposed Solution:

*AMPT Identified Scope (\$51.4 M)*

**McGreevey Road Station:** Build a new greenfield 69 kV station with two 69 kV circuit breakers and associated relays. Station should be able to accommodate one new distribution transformer. **(s3734.1)**

**Water Street Station:** Rebuild existing Water Street 69 kV station to a three-breaker ring bus to accommodate two 69 kV lines and one distribution transformer. **(s3734.2)**

**Water Street – McGreevey Road 69 kV:** Build approximately 1.2 miles of new single circuit 69kV line using 795 ACSR Drake conductor from the Water Street 69 kV sub to the new McGreevey Road sub. **(s3734.3)**

**Greenlawn – McGreevey Road 69 kV:** Build approximately 6.0 miles of new single circuit 69kV line using 795 ACSR Drake conductor from the Greenlawn 69 kV sub to the new McGreevey Road sub. Install line sectionalizing MOAB toward McGreevey Road. **(s3734.4)**

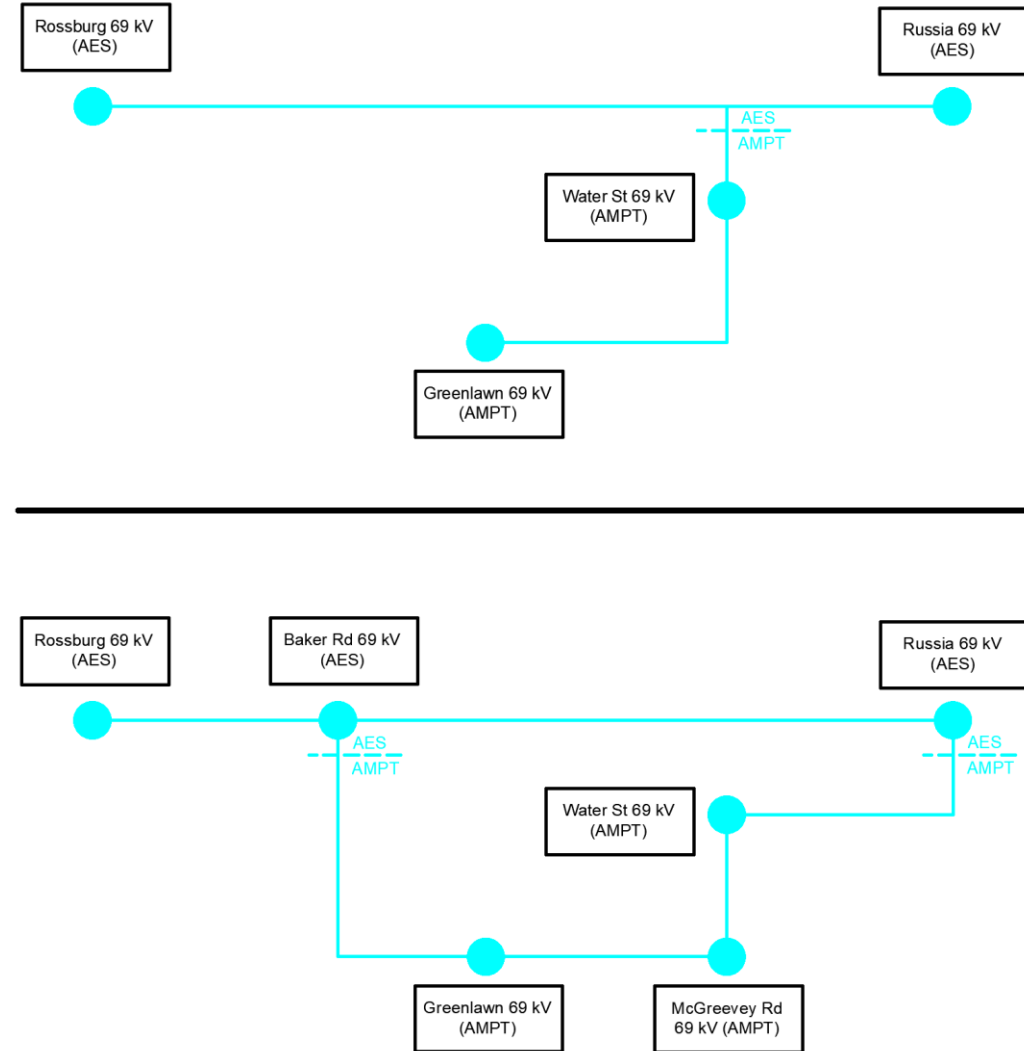
**Greenlawn - Baker Road 69 kV:** Build approximately .8 miles of new single circuit 69kV line using 795 ACSR Drake conductor from the Greenlawn 69 kV sub to the new McGreevey Road sub. Install a line sectionalizing MOAB toward Baker Road. **(s3734.5)**

**Water Street - Russia 69 kV:** Build approximately 5.5 miles of new single circuit 69kV line using 795 ACSR Drake conductor from the Water Street 69 kV sub to the AES Russia sub. **(s3734.6)**

*AES Identified Scope (\$15.2 M)*

**Baker Road Station:** Build new 3 breaker ring bus at Baker Road. Retire Water Street Tap. **(s3734.7)**

**Russia Station:** Expand the existing ring bus at Russia substation to accommodate the new line to Water Street. **(s3734.8)**





# AMPT Projects in DAY Transmission Zone M3 Process Versailles, OH

**Need Number:** AMPT-2024-001

**Process Stage:** Submission of Supplemental Project for Inclusion in the Local Plan – 05/11/2026

**Previously Presented:** Solution Meeting – 2/14/2025

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

**Alternatives Considered:**

- Bring the existing AES 69 kV Rossburg – Russia line in and out of the AMPT Water Street 69 kV station. AES transmission interconnection requirements do not allow for other TO's to own within their throughpath. This required AMPT to develop a new connection back to AES Russia.

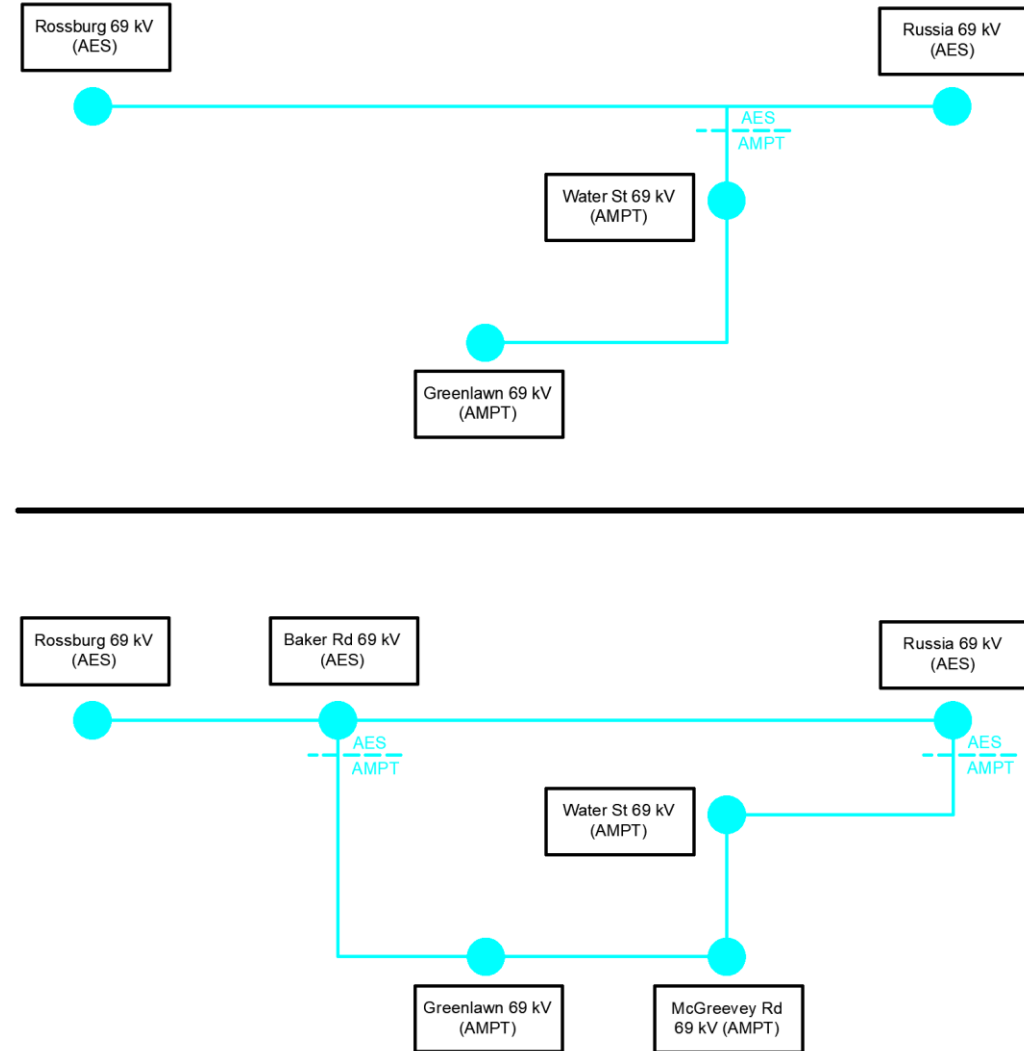
**Total Estimated Transmission Cost:** \$66.6 M

**Projected In-Service:** 6/30/2028

**Supplemental Project ID:** s3734.1 (AMPT), s3734.2 (AMPT), s3734.3 (AMPT), s3734.4 (AMPT), s3734.5 (AMPT), s3734.6 (AMPT), s3734.7 (AES), s3734.8 (AES)

**Project Status:**

- Engineering



**Need Number:** AMPT-2025-003

**Process Stage:** Submission of Supplemental Project for Inclusion in the Local Plan – 05/11/2026

**Previously Presented:** Solution Meeting – 9/15/2025, Need Meeting – 6/13/2025

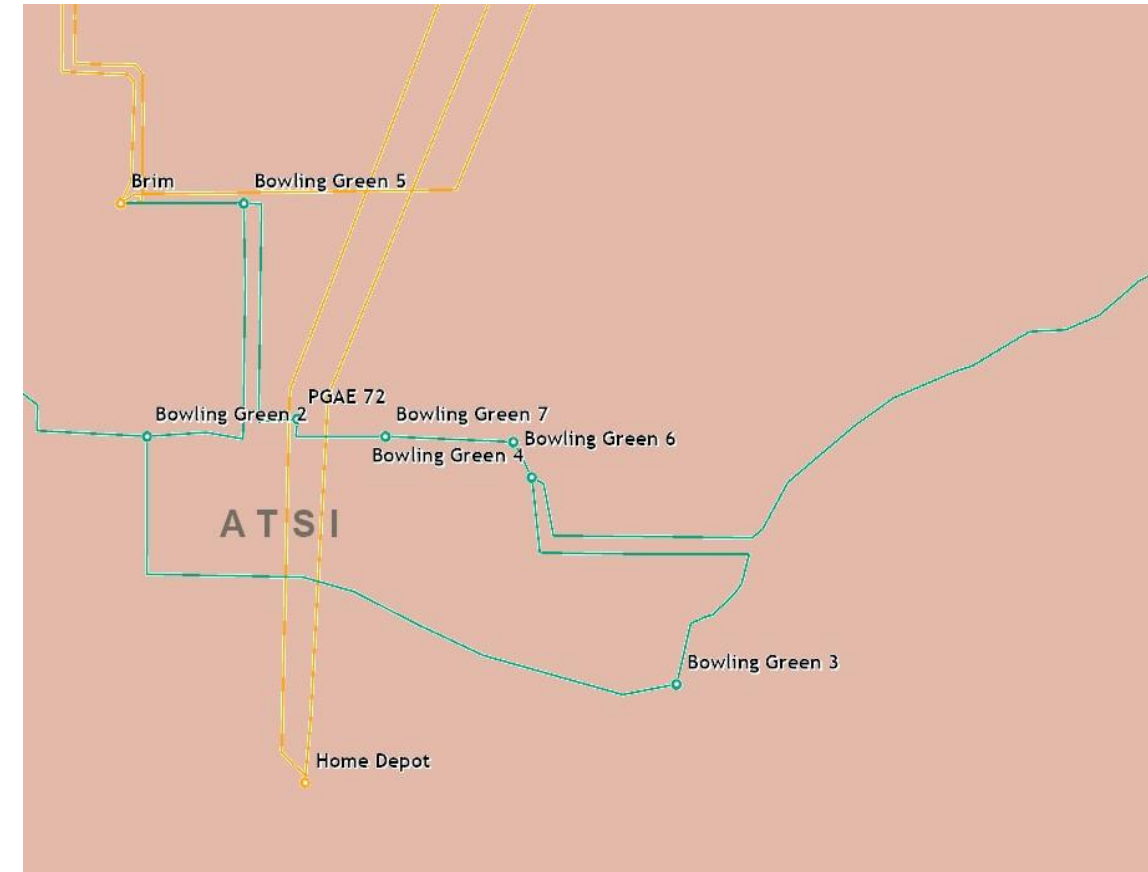
**Supplemental Project Driver(s):** Equipment Condition/Performance/Risk, Operational Flexibility and Efficiency

**Specific Assumption Reference(s):** AMPT Transmission Facilities Interconnection Requirements document, AMPT Transmission 2025 Local Planning Assumptions

**Problem Statement:**

Gypsy Lane's existing configuration allows for single contingencies to drop the entire station load. Additionally, both 69 kV lines exiting the substation are limited by terminal equipment. The Gypsy Lane transformers have high-side switches that require significant prep work in order to get them to open properly and are in need of replacement.

- Dec 2019, a vehicle accident caused the 69kV circuit to lock out, impacting 11,500 customers which includes 8961 customers at Sub #3 Gypsy Lane
- May 2020, a 69kV transmission line outage interrupted all 8961 customers served from Gypsy Lane for 60 minutes





# AMPT Projects in ATSI Transmission Zone M3 Process Bowling Green, OH

**Need Number:** AMPT-2025-003

**Process Stage:** Submission of Supplemental Project for Inclusion in the Local Plan – 05/11/2026

**Previously Presented:** Solution Meeting – 9/15/2025

**Supplemental Project Driver(s):** Equipment Condition/Performance/Risk, Operational Flexibility and Efficiency

## Proposed Solution:

*AMPT Identified Scope (\$3.2 M)*

**Gypsy Lane (Sub3) Station:** Add one (1) new 69 kV bus tie-breaker and two (2) new 69 kV circuit switchers on the high-side of the distribution transformers and associated relaying. Upgrade all station equipment, including but not limited to, bus conductor, breaker leads, and switches so all series elements on the 69 kV are greater than or equal to 1200 A. Addition of bus-tiebreaker and circuit switchers will add new zones of protection to limit the overall tripping footprint of bus and transformer faults. Estimated Cost: \$3.2 M (s3767.1)

## Alternatives Considered:

- No viable alternatives identified.

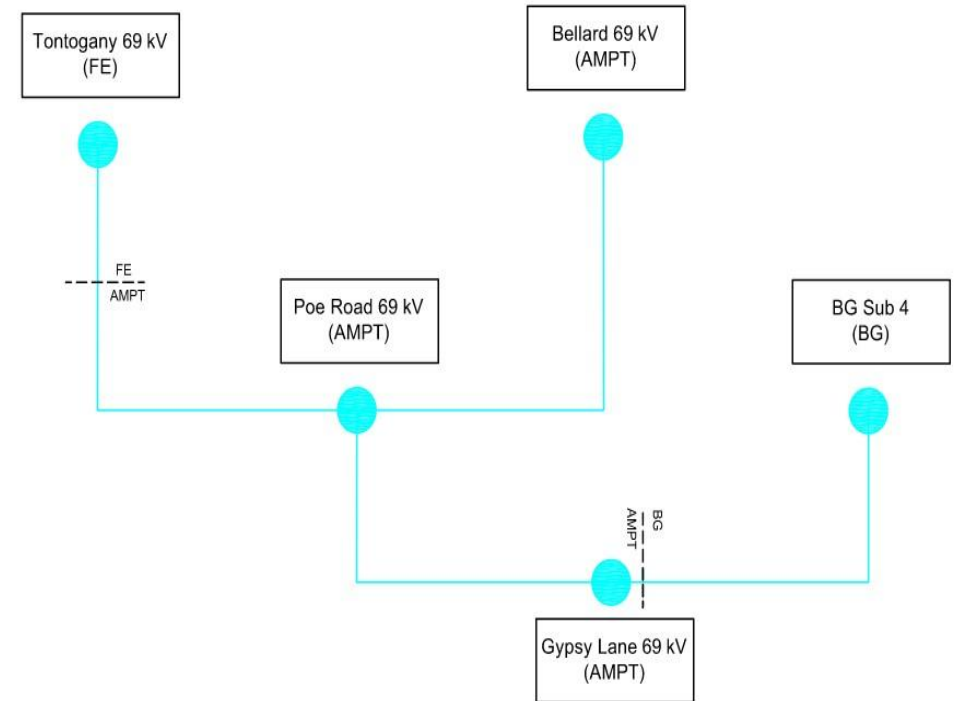
**Total Estimated Transmission Cost:** \$3.2M

**Projected In-Service:** 10/30/2027

**Supplemental Project ID:** s3767.1 (AMPT)

## Project Status:

- Pre-Engineering



**Need Number:** AMPT-2023-004

**Process Stage:** Submission of Supplemental Project for Inclusion in the Local Plan – 05/11/2026

**Previously Presented:** Solution Meeting – 9/19/2025, Need Meeting – 3/17/2023

**Supplemental Project Driver(s):** Customer Service, Operational Flexibility and Efficiency

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

**Problem Statement:**

The City of Orrville has two substations, which are served by a single circuit 138kV line approximately 8.92 miles in length, from AEP's East Wooster substation. The city load is 60 MW at peak. A single contingency outage of the 8.92-mile East Wooster-Orrville 138kV line, the "P" breaker at East Wooster sub, or the 138kV straight bus at East Wooster, will interrupt the entire Orrville municipal system. Orrville has no other transmission source, so a bolted fault on the existing 138kV source will leave all of Orrville out of service until the failed facility can be repaired.





# AMPT Projects in AEP Transmission Zone M3 Process Orrville, OH

**Need Number:** AMPT-2023-004

**Process Stage:** Submission of Supplemental Project for Inclusion in the Local Plan – 05/11/2026

**Previously Presented:** Solution Meeting – 9/19/2025

**Supplemental Project Driver(s):** Customer Service, Operational Flexibility and Efficiency

**Proposed Solution:**

*AMPT Identified Scope (\$49.841 M)*

**Apple Ave- FE yard 138kV line:** Construct a new 138kV line from Apple Ave sub to FE's new switchyard on the Star-Cloverdale line. **(s3832.1)**

**Apple Ave: expand substation:** Expand Apple Ave sub to accommodate the new 138kV line to First Energy. **(s3832.3)**

**Mineral Springs: reconstruct substation:** Rebuild Orrville's Power Plant sub at a new location, to be called Mineral Springs sub. Construct a 4-cb 138 kV ring bus to terminate the two 138 kV lines and two 138/13 kV transformers. Work to include grading, fence, and new control house. The existing Power Plant sub has no space for the required 138 kV infrastructure. **(s3832.4)**

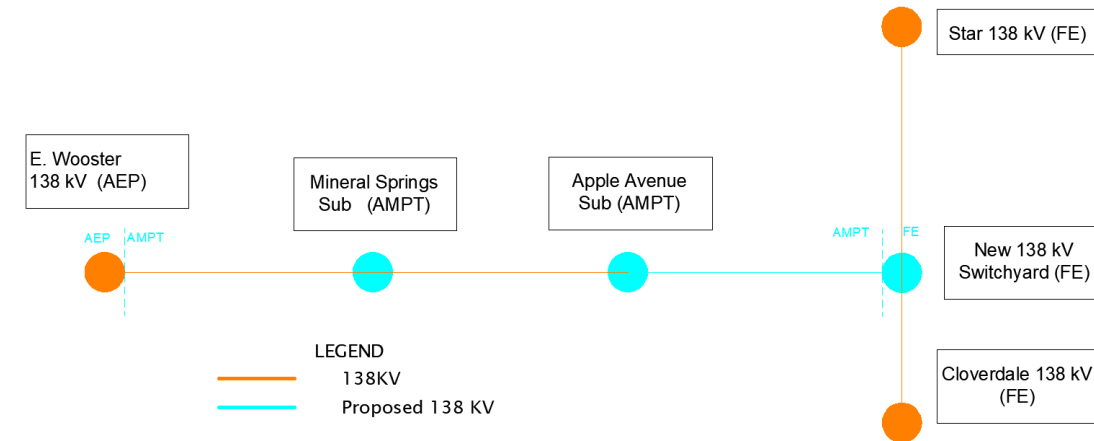
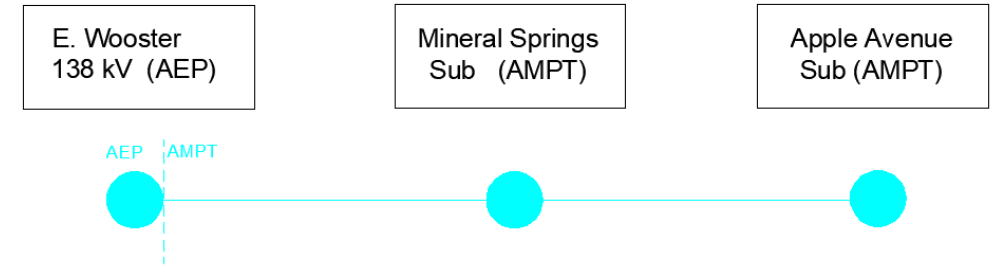
**Apple Ave-Mineral Springs 138 kV line rebuild:** Relocate and reconstruct the 138 kV line between Apple Ave and Mineral Springs subs. **(s3832.5)**

*ATSI Identified Scope (\$18.4 M)*

**New FE switchyard:** Construct a 138kV switchyard, intersecting the Star-Cloverdale 138 kV line. Provide a line terminal for the new Apple Ave-(new FE sub) line. **(s3832.2)**

*AEP Identified Scope (\$0.5 M)*

**AEP East Wooster substation:** Existing metering on the E Wooster-Orrville line (today's line name) is limited to 69 MVA, due to revenue metering at E Wooster sub. AEP to replace revenue metering at E Wooster, with interconnection metering. CT's will be rated for higher than the 138kV line capacity. **(s3832.6)**





# AMPT Projects in AEP Transmission Zone M3 Process Orrville, OH

**Need Number:** AMPT-2023-004

**Process Stage:** Submission of Supplemental Project for Inclusion in the Local Plan – 05/11/2026

**Previously Presented:** Solution Meeting – 9/19/2025

**Supplemental Project Driver(s):** Customer Service, Operational Flexibility and Efficiency

**Alternatives Considered:**

Providing a 2nd source from the Star-Cloverdale line is the most economically feasible alternative. The Brookside-Cloverdale line is approximately the same distance away from Orrville, but would entail a more difficult line siting project due to crossing through more populated suburban areas. Rebuilding the existing E Wooster-Orrville 138kV line for double circuit would still expose the city of Orrville to a complete outage for a P7 (DCTL) loss of the new DCTL line, with no restoration of load until line repairs are made.

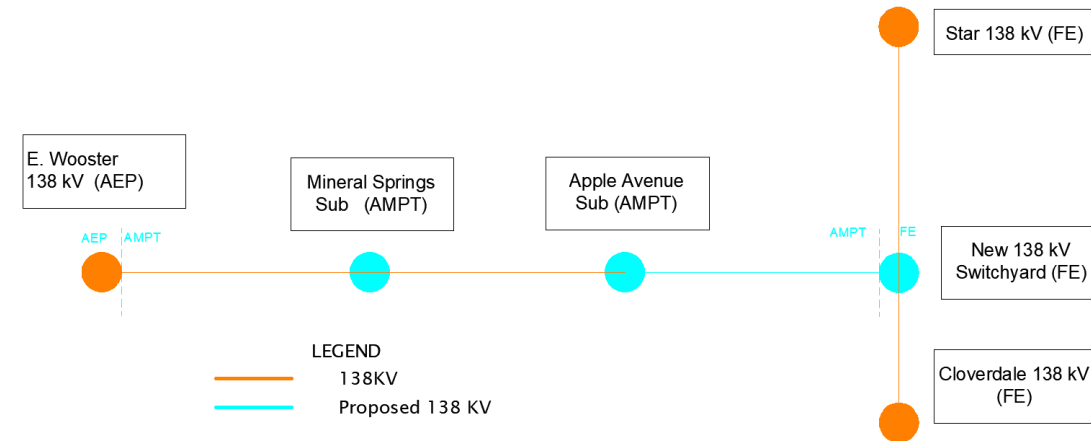
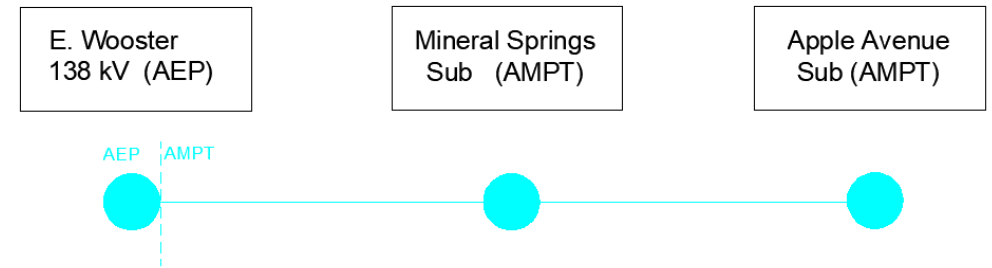
**Total Estimated Transmission Cost:** \$68.741M

**Projected In-Service:** 8/30/2030

**Supplemental Project ID:** s3832.1 (AMPT), s3832.2 (ATSI), s3832.3 (AMPT), s3832.4 (AMPT), s3832.5 (AMPT), s3832.6 (AEP)

**Project Status:**

- Engineering



## Revision History

5/11/2026 – V1 – Original version posted to pjm.com (s3734.1-6, s3767.1, s3832.1, 3-5)