SRRTEP - Western Committee
ComEd Supplemental Projects

October 17, 2025

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

ComEd Transmission Zone M-3 Process
Cherry Valley 138 kV 1-2 CB

Need Number: ComEd-2025-023

Process Stage: Need Meeting 10/17/2025

Project Driver:

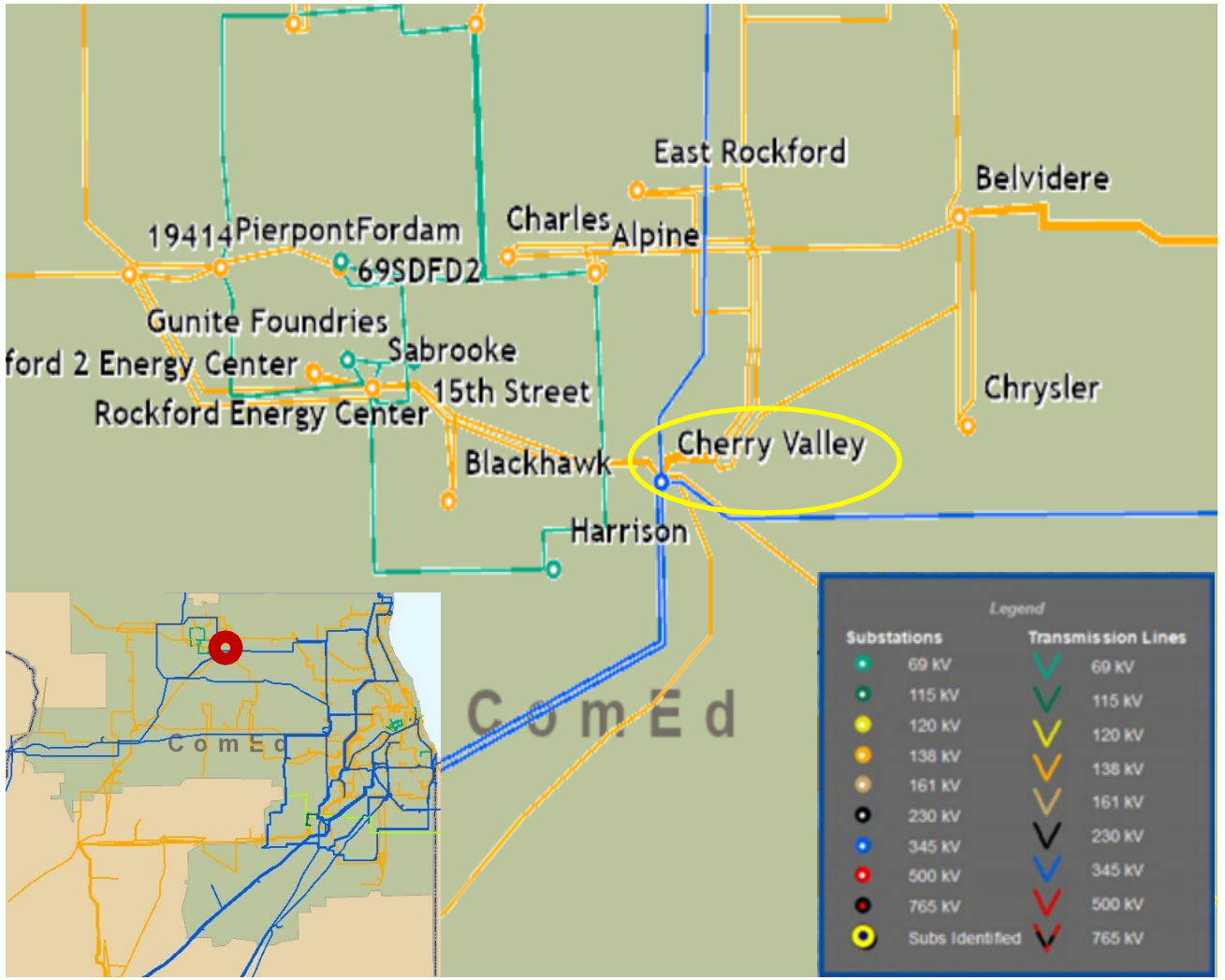
Equipment Material Condition, Performance, and Risk

Specific Assumption Reference:

- Transmission infrastructure replacements (EOL/condition/obsolescence) that are consistent with efficient asset management decisions

Problem Statement:

Cherry Valley 138 kV 1-2 BT oil circuit breaker was installed in 1969. It is in deteriorating condition, has a lack of replacement parts and has elevated maintenance costs.



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

ComEd Transmission Zone M-3 Process
Sandwich Substation

Need Number: ComEd-2025-019

Process Stage: Solution Meeting 10/17/2025

Previously Presented: Need Meeting 9/19/2025

Project Driver:

Operational Flexibility and Efficiency

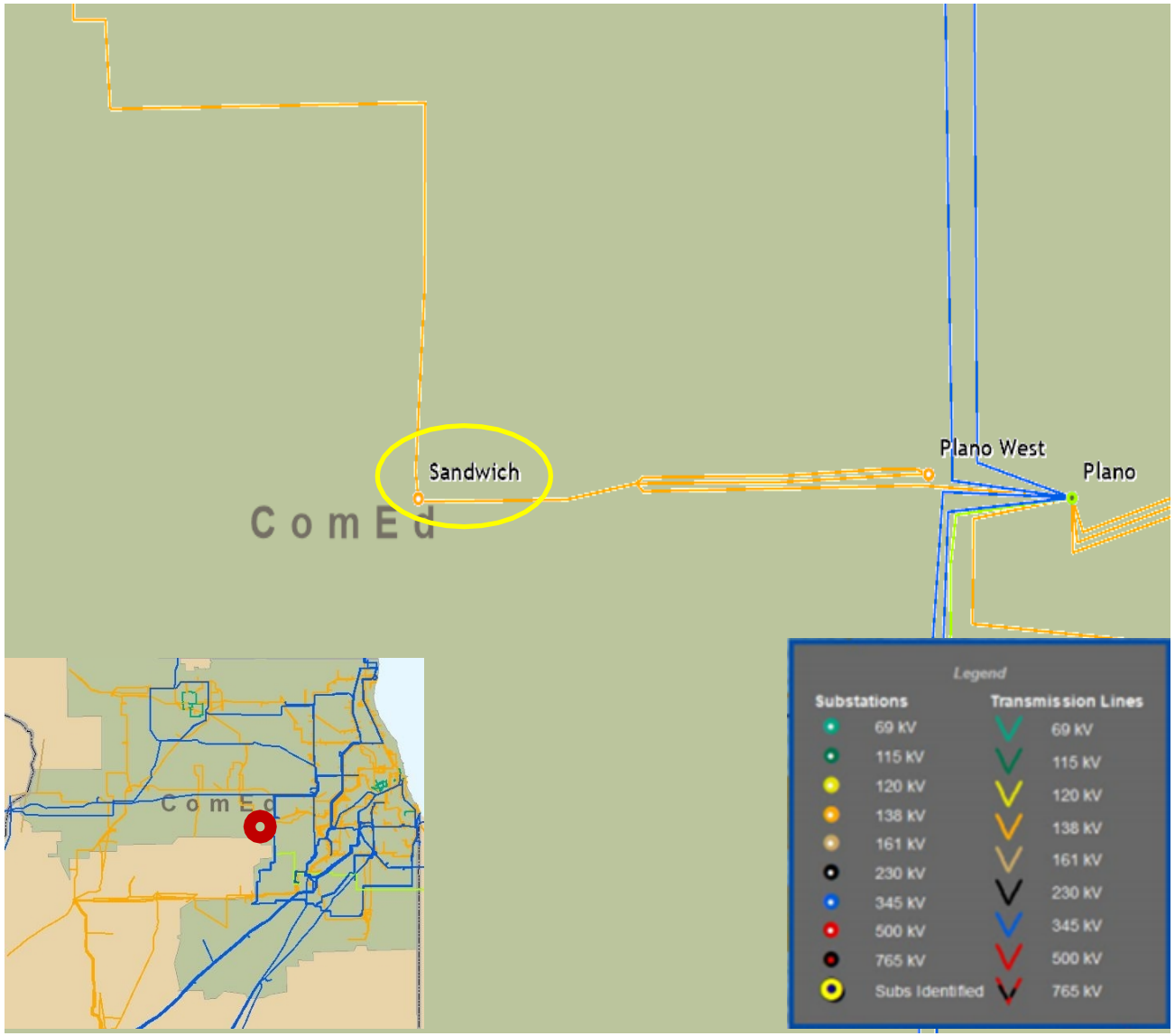
Equipment Material Condition, Performance, and Risk

Specific Assumption Reference:

- Transmission infrastructure replacements (EOL/condition/obsolescence) that are consistent with efficient asset management decisions
- Enhancing system functionality, flexibility, visibility, or operability

Problem Statement:

- Sandwich is currently a “Line Tie Breaker Substation” which has the two 138kV Lines feeding the station via taps on either side of the circuit breaker. The 138kV station layout includes two 138kV lines and two 138/34kV distribution TRs.
- An outage of the circuit breaker results in a complete outage of the station.



ComEd Transmission Zone M-3 Process
Sandwich Substation

Need Number: ComEd-2025-019

Process Stage: Solution Meeting 10/17/2025

Proposed Solution:

- Install a new 7 breaker (5 BT, 2 TR), 138 kV station in a ring bus configuration, ultimately expandable to BAAH.

Estimated Transmission cost: $33.8 M

Alternatives Considered:

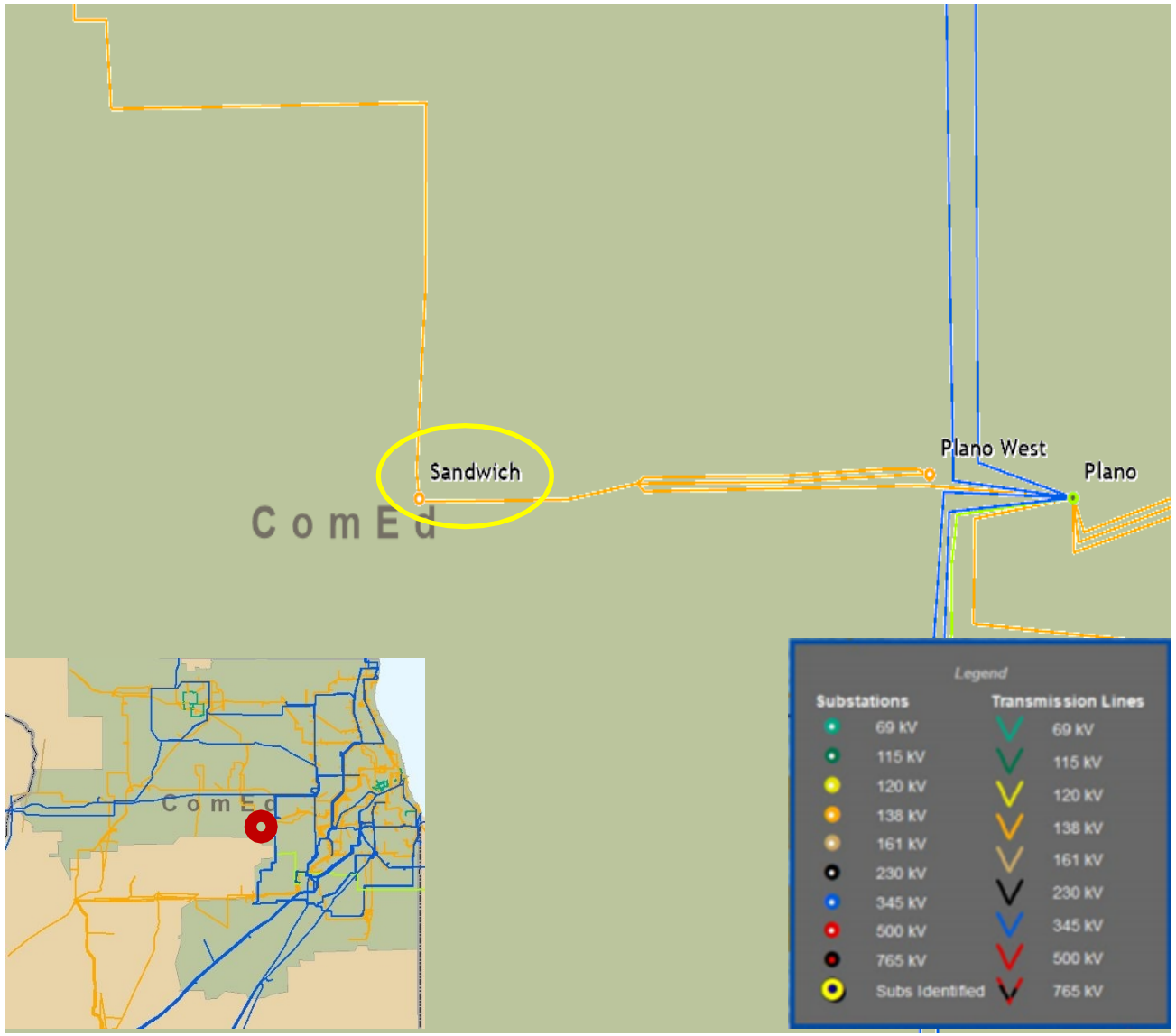
No feasible alternatives available

Projected In-Service:

12/31/2028

Project Status: Conceptual

Model: 2029 RTEP



ComEd Transmission Zone M-3 Process
Customer in Chicago

Need Number: ComEd-2025-020

Process Stage: Solution Meeting 10/17/2025

Previously Presented: Need Meeting 9/19/2025

Project Driver:

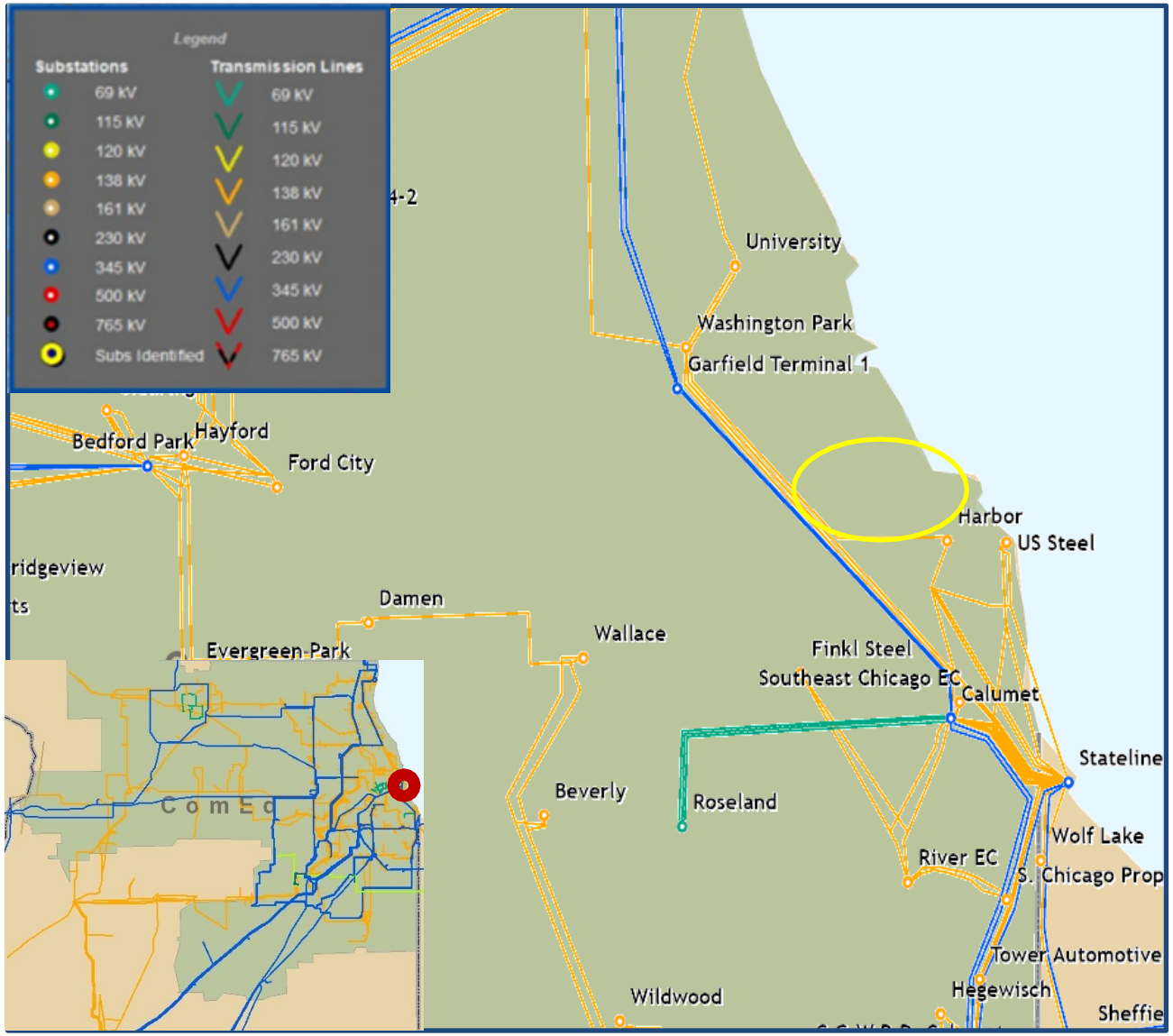
Customer Service

Specific Assumption Reference:

- New transmission customer interconnections or modification to an existing customer

Problem Statement:

New customer is looking for transmission service in the Chicago area. Initial loading is expected to be 2.5 MW in June 2026, 179.4 MW in June 2029 with an ultimate load of 179.4 MW in 2029.



ComEd Transmission Zone M-3 Process
Customer in Chicago

Need Number: ComEd-2025-020

Process Stage: Solution Meeting 10/17/2025

Proposed Solution:

- At State Line, install 2 new 138 kV CBs to create 2 line positions
- New customer will be radially served by two rebuilt 2.5 mile, 138 kV lines from State Line substation to the customer site. Customer substation will be ultimate 4-rung breaker-and-a-half configuration. Initial installation will be 6-138 kV CBs and 3–138/34 kV, 112 MVA transformers.

Estimated Transmission cost: $2.6 M

Alternatives Considered:

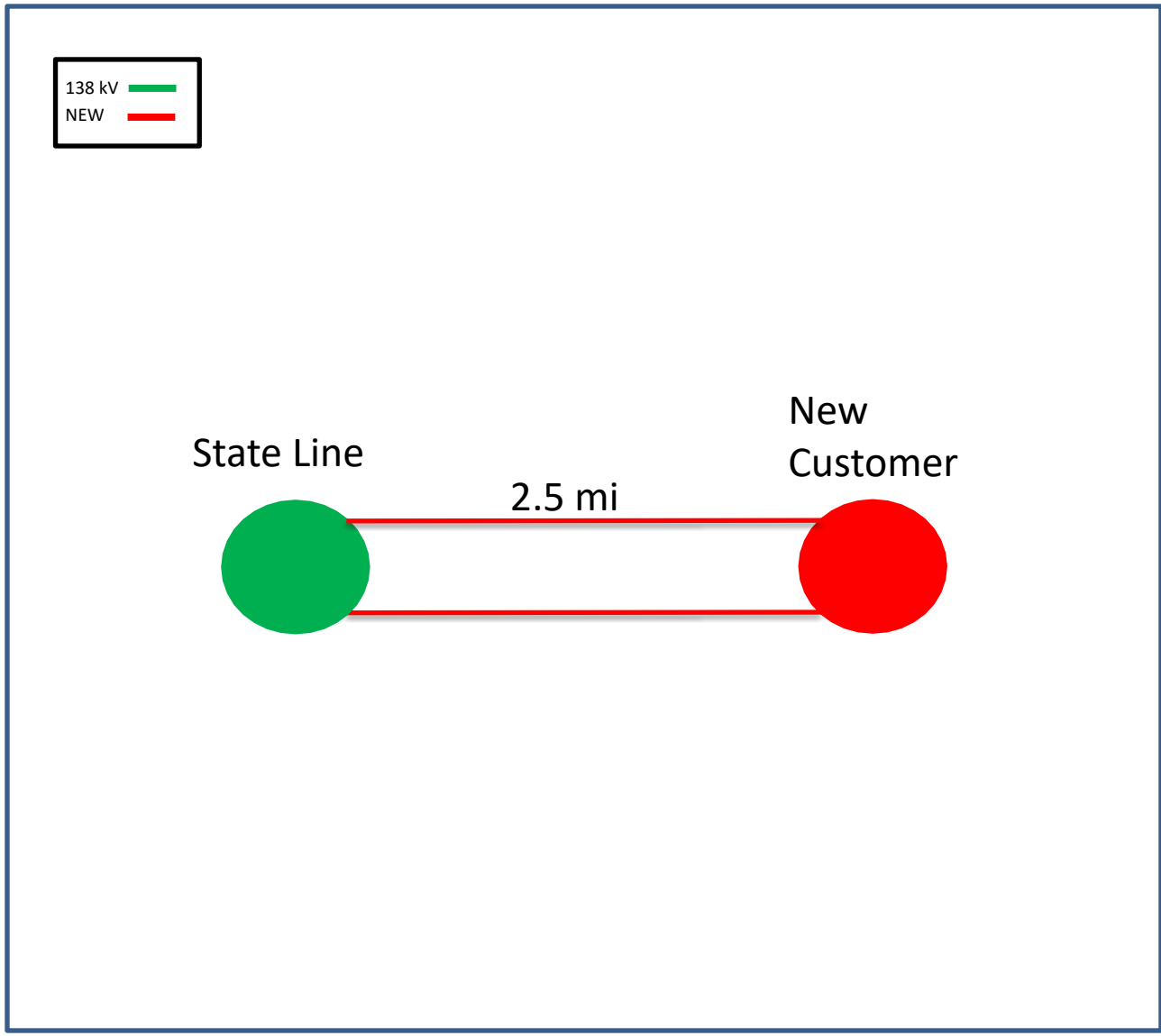
No feasible alternatives available

Projected In-Service:

8/28/2026

Project Status: Engineering

Model: 2029 RTEP



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

10/7/2025 – V1 – Original version posted to pjm.com