# SRRTEP - Western Committee
# ComEd Supplemental Projects

September 19, 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
# Sandwich Substation

**Need Number:** ComEd-2025-019

**Process Stage:** Need Meeting 9/19/2025

**Project Driver:**

Operational Flexibility and Efficiency

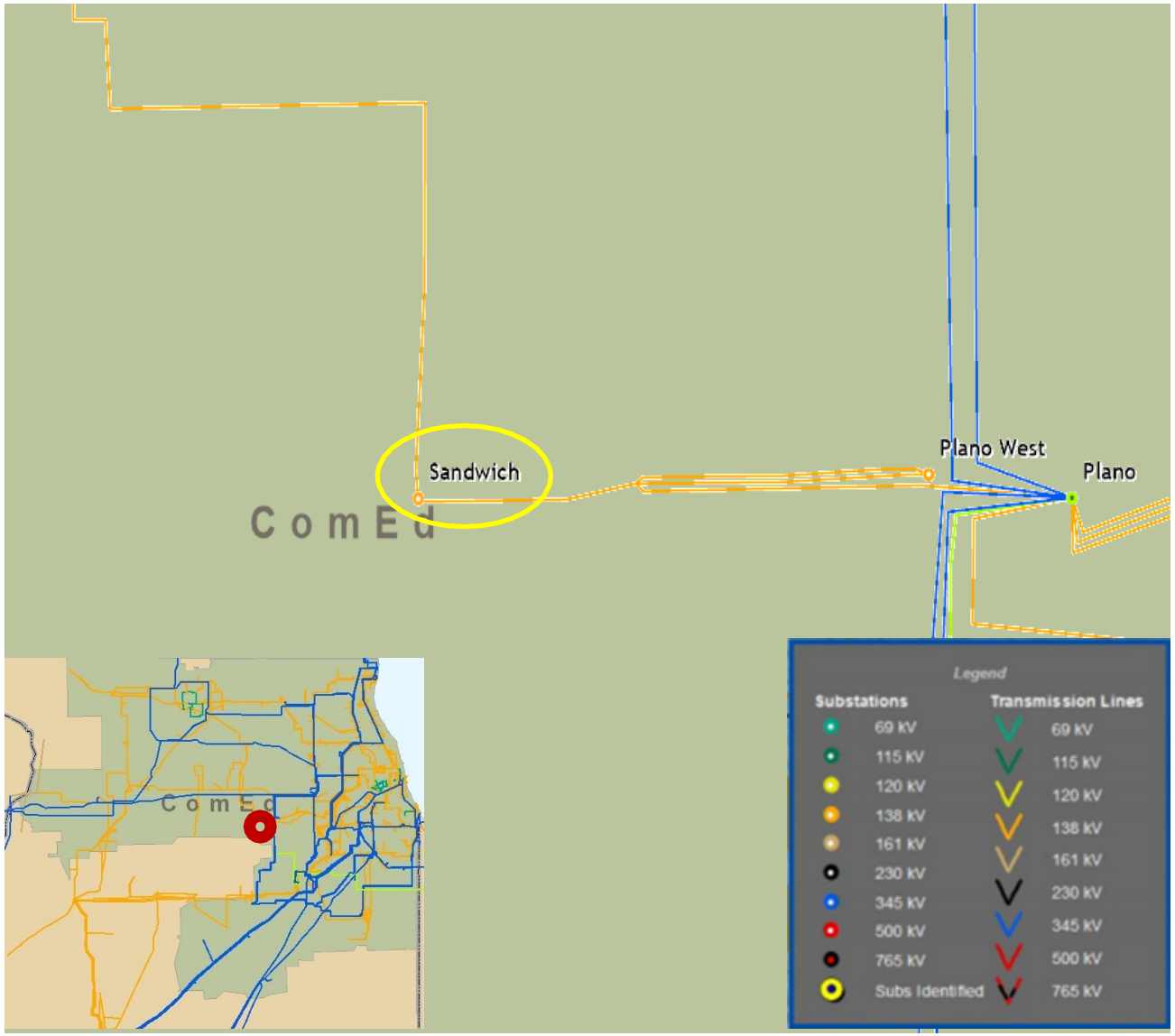
Equipment Material Condition, Performance, and Risk

**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
# Customer in Chicago

**Need Number:** ComEd-2025-020

**Process Stage:** Need Meeting 9/19/2025

**Project Driver:**

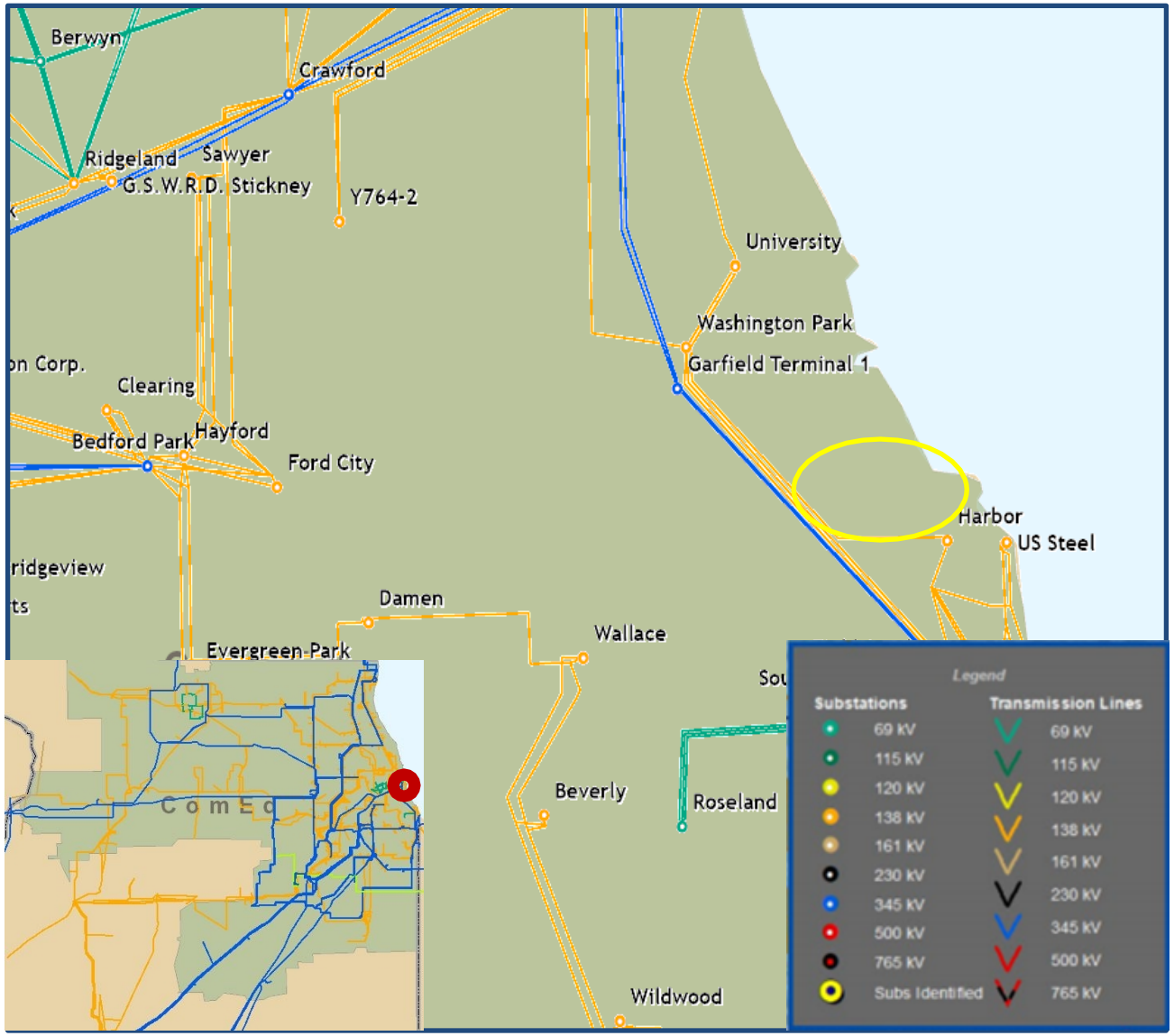
Customer Service

**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-2025-021

**Process Stage:** Need Meeting 9/19/2025

**Project Driver:**

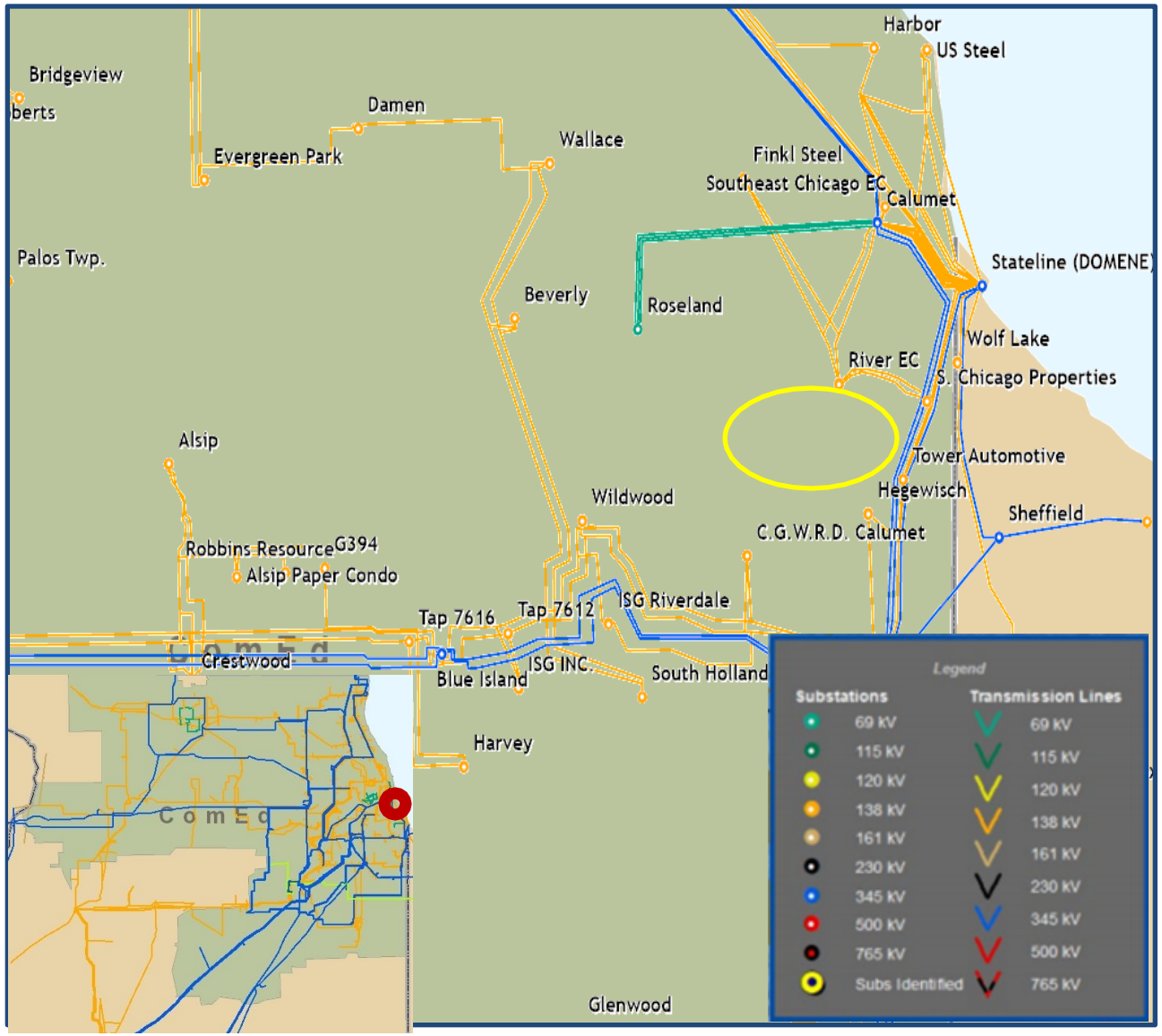
Customer Service

**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 47.2 MW in June 2029 with an ultimate load of 300 MW in 2030.



# Scope Change Update for s3584.1 and s3584.2

# ComEd Transmission Zone M-3 Process
# Customer in Elk Grove

**Supplemental Projects:** s3584.1; s3584.2

**Need Number:** ComEd-2024-003

**Problem Statement:**

New customer is looking for transmission service in the Elk Grove area. Initial loading is expected to be 16 MW in December 2027, 21 MW in 2028, 56 MW in 2029, with an ultimate load of 250 MW.

**Project Driver:** Customer Service

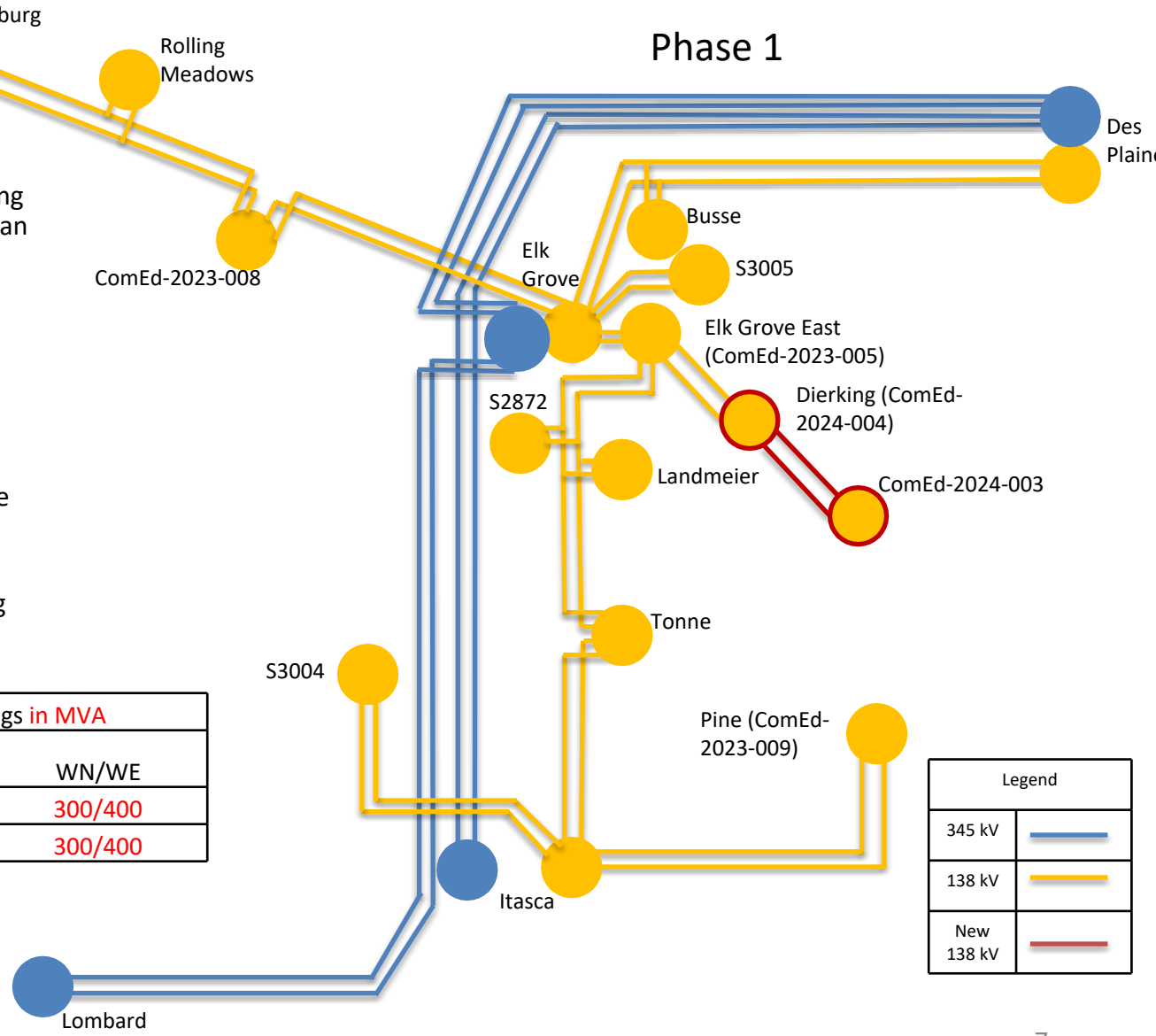
**Selected Solution:**

**Phase 1: (s3584.1)**

- New customer will be radially served by two new 1.5 mile 138 kV underground lines consisting of 2500mm$^2$ XLPE cables per phase from ComEd Dierking substation (ComEd-2024-004) to the customer site. Customer substation will be a 11 CB, 138kV double ring bus configuration with 3 – 138/34 kV, 112 MVA transformers.
- Install 2 new 138kV CBs to the double ring bus configuration at ComEd Dierking substation (ComEd-2024-004) to connect the new radial lines to the customer substation

| Facility | Old Ratings in MVA | | New Ratings in MVA | |
|---|---|---|---|---|
| | SN/SE | WN/WE | SN/SE | WN/WE |
| Dierking – ComEd-2024-003 (Red) | - | - | 300/400 | 300/400 |
| Dierking – ComEd-2024-003 (Blue) | - | - | 300/400 | 300/400 |

Estimated direct connect facilities transmission cost: $ $125.2M



# ComEd Transmission Zone M-3 Process Customer in Elk Grove

**Supplemental Projects:** s3584.1; s3584.2

**Need Number:** ComEd-2024-003

**Selected Solution:**

**Phase 2: (s3584.2)**

- Install second 2500mm$^2$ XLPE cable per phase on two – 1.8 mile 138kV underground lines from ComEd Elk Grove East substation (ComEd -2023-005) to ComEd Dierking substation (ComEd-2024-004)
- Install second 2500mm$^2$ XLPE cable per phase on two – 2.9 mile 138kV underground lines from ComEd Itasca substation to ComEd Pine substation (ComEd-2023-009)
- Install two new 138kV CBs to the double ring bus configuration at ComEd Pine substation (ComEd-2023-009) to connect the new lines to the customer substation
- Install two new 2.7 mile 138 kV underground lines from ComEd Pine substation (ComEd-2023-009) to the customer site

| Facility | Old Ratings in MVA | | New Ratings in MVA | |
|---|---|---|---|---|
| | SN/SE | WN/WE | SN/SE | WN/WE |
| Pine – ComEd-2024-003 (Red) | - | - | 466/588 | 466/588 |
| Pine – ComEd-2024-003 (Blue) | - | - | 466/588 | 466/588 |
| Elk Grove East - Dierking (Red) | 280/280 | 280/280 | 466/588 | 466/588 |
| Elk Grove East - Dierking (Blue) | 280/280 | 280/280 | 466/588 | 466/588 |
| Itasca - Pine (Red) | 280/280 | 280/280 | 466/588 | 466/588 |
| Itasca - Pine (Blue) | 280/280 | 280/280 | 466/588 | 466/588 |

Estimated direct connect facilities transmission cost: $194.2M

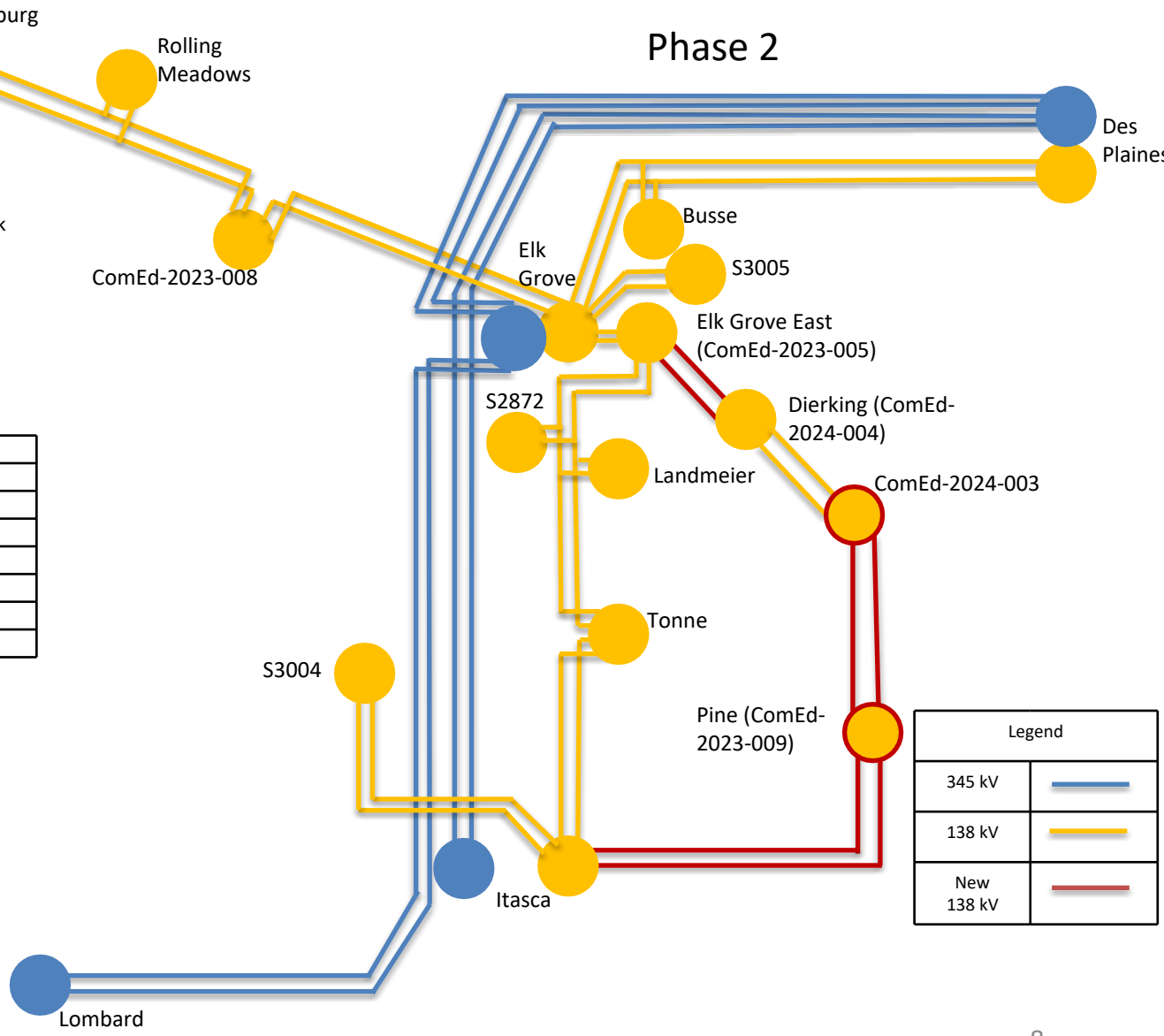
Total Estimated Transmission Cost: $319.4M

**Supplemental Project ID:** s3584.1, s3584.2

**Projected In-Service:** 12/31/2027 (s3584.1), 12/31/2028 (s3584.2)

**Project Status:** Engineering

**Model:** 2029 RTEP



# Scope Change Update for s3343.2

# ComEd Transmission Zone M-3 Process
# Customer in Manteno

**Supplemental Projects:** s3343.1; s3343.2

**Need Number:** ComEd-2024-007

**Problem Statement:**

New customer is looking for transmission service in the Manteno area. Initial loading is expected to be 34 MW in 2024, 113 MW in 2028, with an ultimate load of 113 MW.

**Selected Solution:**

- **Phase 1**

- Tap existing 138 kV line 0901 and extend a new 1.1 mile line to a new 138/13.2 kV transformer by 12/2024.

Estimated Transmission Cost: $0M

- **Phase 2**

- Cut into existing 138 kV 0901 line and extend a new 1.1 mile circuit to a new 138 kV breaker-and-a-half substation.

- New substation will have twelve 138 kV CBs and supply four 138/12.5 kV distribution transformers.

Estimated Transmission Cost: $62.4M

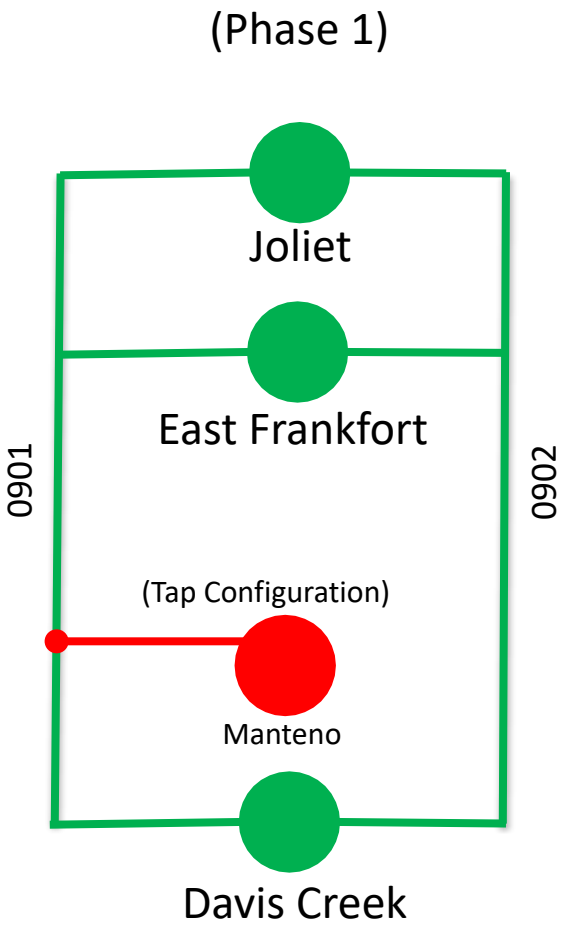
**Projected In-Service:** (Phase 1) 12/31/2024 , (Phase 2) 12/31/2027
**Supplemental Project ID:** s3343.1, s3343.2

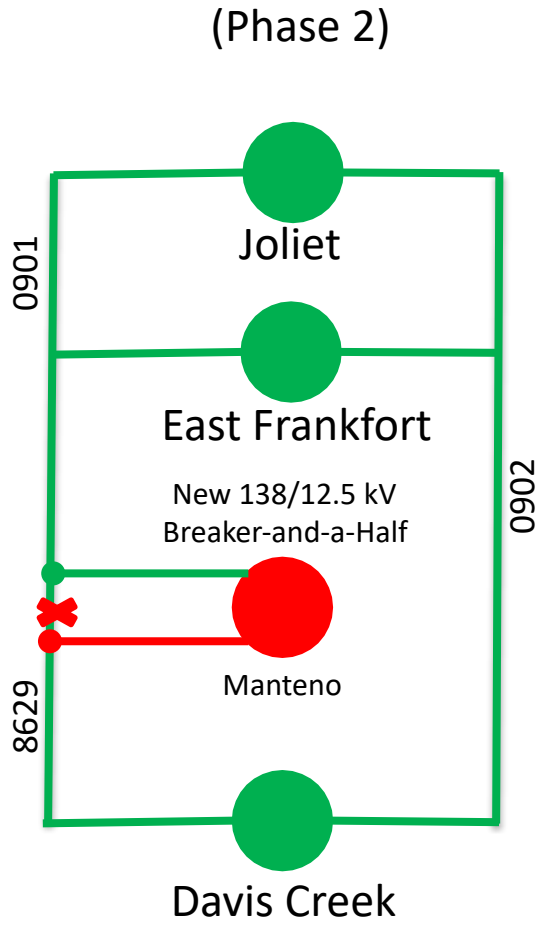
**Project Status:**

Phase 1: In-Service

Phase 2: 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

9/8/2025 – V1 – Original version posted to pjm.com