



# SRRTEP - Western Committee ComEd Supplemental Projects

May 17, 2024

# 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

**Need Number:** ComEd-2024-011

**Process Stage:**

Solution Meeting 5/17/2024

**Previously Presented:**

Need Meeting 4/19/2024

**Project Driver:**

Operational Flexibility and Efficiency

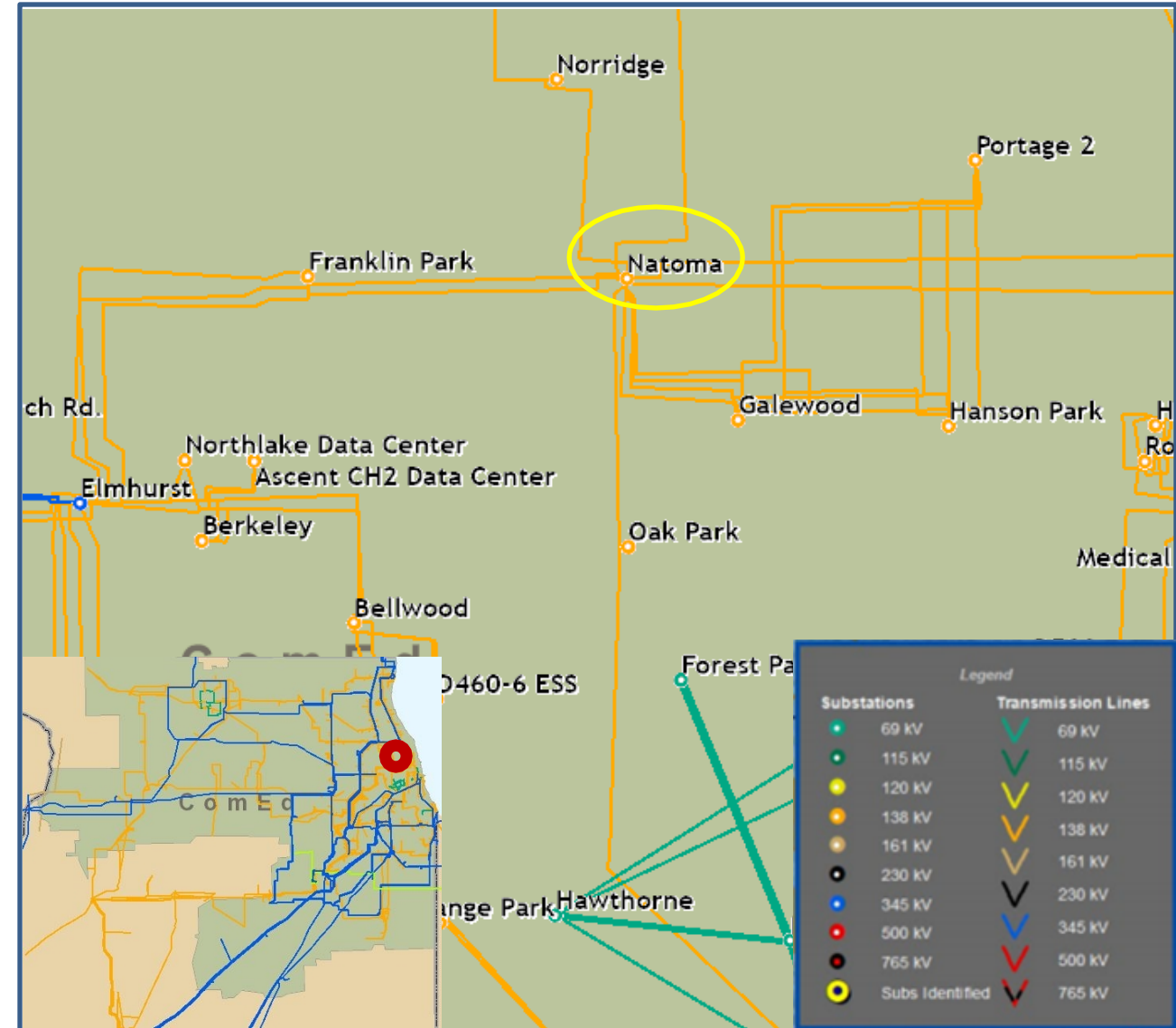
Equipment Material Condition, Performance and Risk

**Specific Assumption Reference:**

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

**Problem Statement:**

- Natoma substation is currently a double ring bus with two 138-12 kV distribution transformers and eleven 138 kV lines. The distribution transformers each share a bus position with a line.
- 138 kV oil circuit breakers BT1-2, BT1-212, BT1-9, BT4-5, BT8-9 at Natoma substation were installed in 1970. They are in deteriorating condition, lack replacement parts, and have elevated maintenance costs.



**Need Number:** ComEd-2024-011

**Process Stage:**

Solution Meeting 5/17/2024

**Proposed Solution:**

- Replace 138 kV BT1-2, BT1-212, BT1-9, BT4-5, BT8-9 oil CBs with new SF6 CBs
- Install a new BT CB 729 between Bus 280 and Bus 278
- Move 138/12 kV transformer from Bus 2 to Bus 3

Estimated transmission cost: \$22M

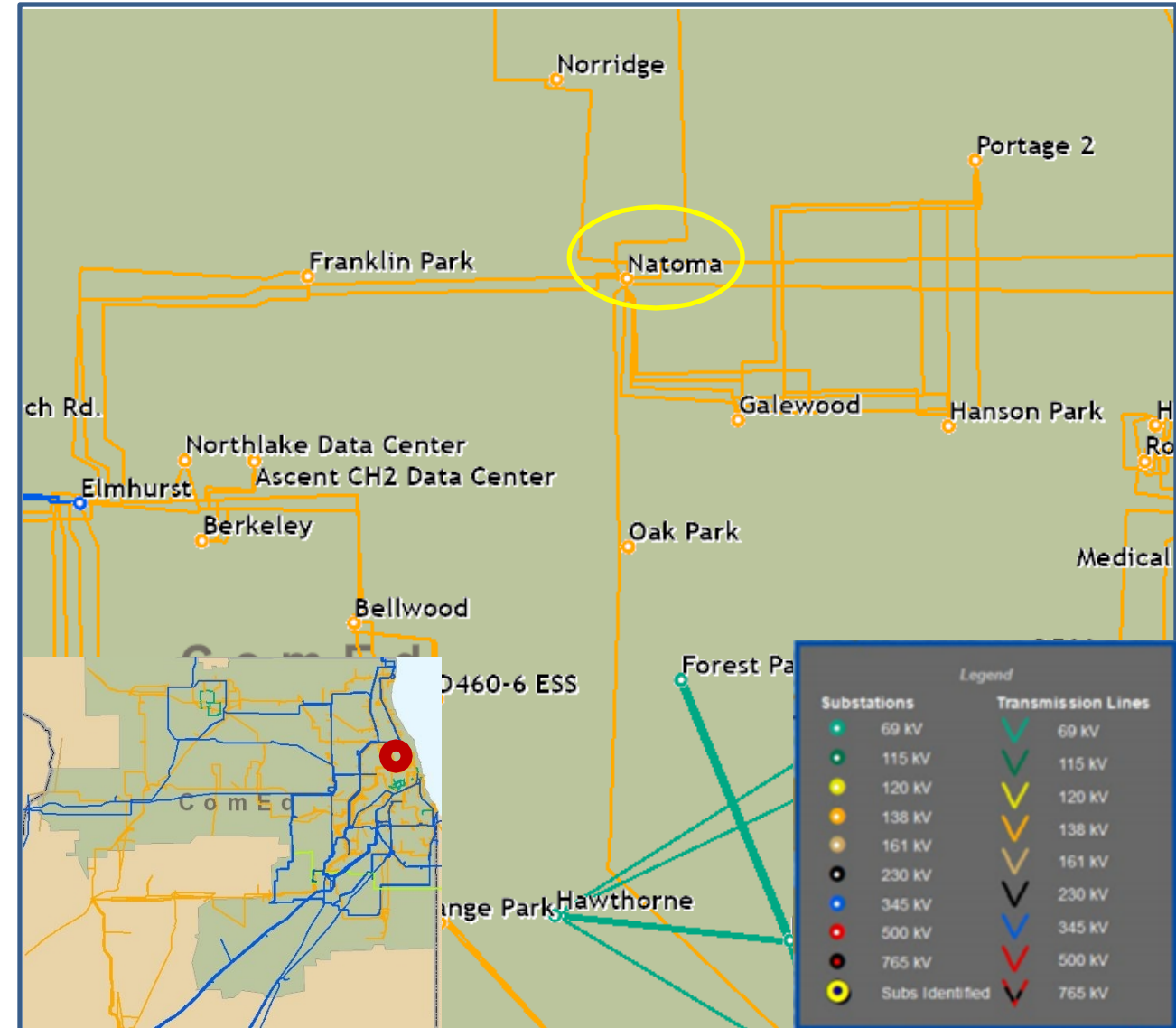
**Alternatives Considered:**

No feasible alternatives available.

**Projected In-Service:** 12/31/25

**Project Status:** Conceptual

**Model:** 2028 RTEP



**Need Number:** ComEd-2024-012

**Process Stage:**

Solution Meeting 5/17/2024

**Previously Presented:**

Need Meeting 4/19/2024

**Project Driver:**

Operational Flexibility and Efficiency

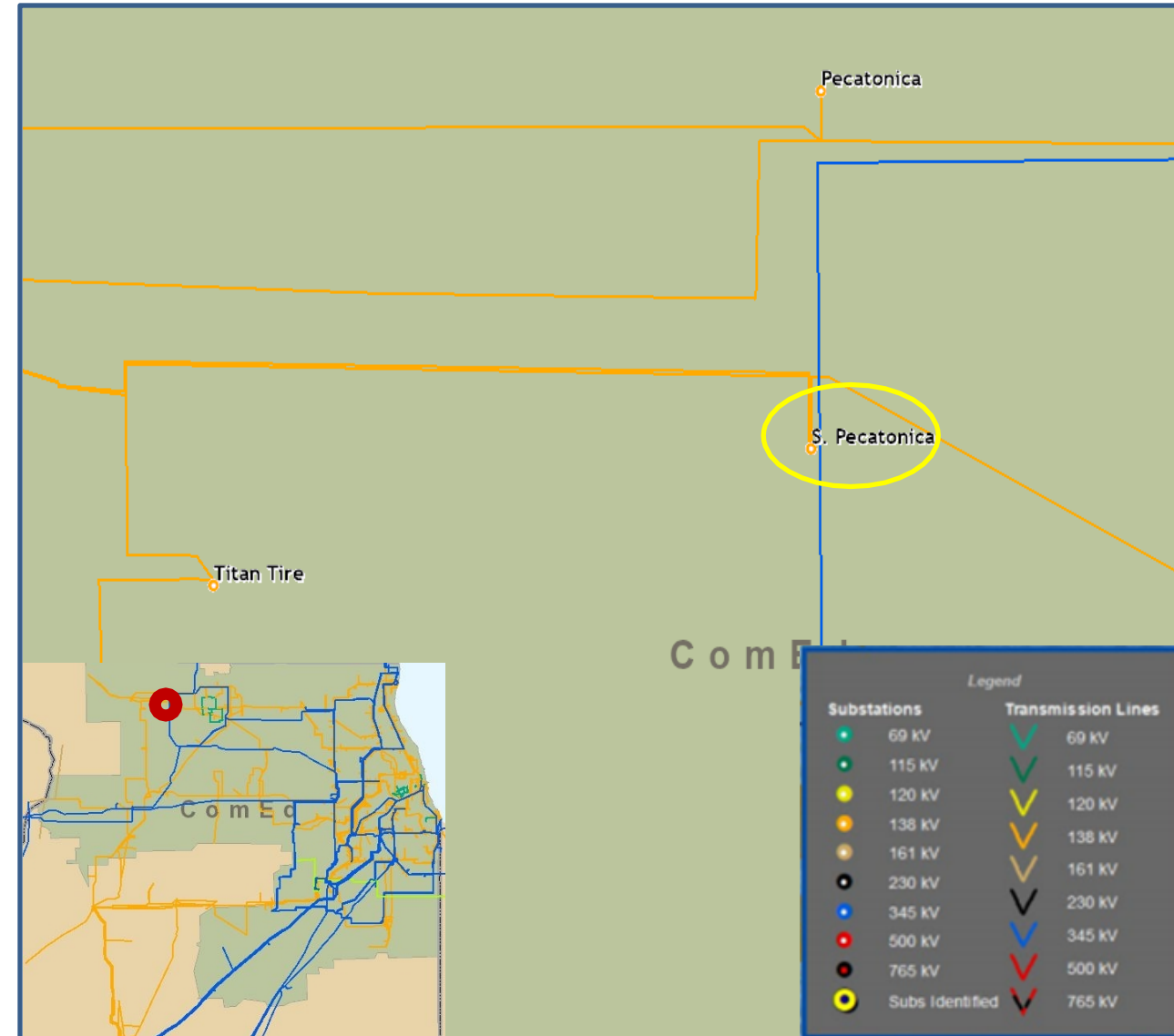
Equipment Material Condition, Performance and Risk

**Specific Assumption Reference:**

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

**Problem Statement:**

- TDC390 S Pecatonica is a single radial tap off of 138kV L19414 to a fused 138/12 kV transformer feeding 13 MW.
- 138kV L19414 is 41.3 miles long and currently has 5 tapped stations: TSS121 Freeport, ESSB-427, TSS162 Pierpont, TDC390 S. Pecatonica and TSS165 Fordham.
- 138kV L19414 has had 14 transmission outages in the last 10 years, 5 of those outages in the last 2 years.



**Need Number:** ComEd-2024-012

**Process Stage:**

Solution Meeting 5/17/2024

**Proposed Solution:**

- Cut 138 kV L19414 Sabrooke-Lancaster into a new 138 kV, 3-breaker ring

Estimated transmission cost: \$38.5M

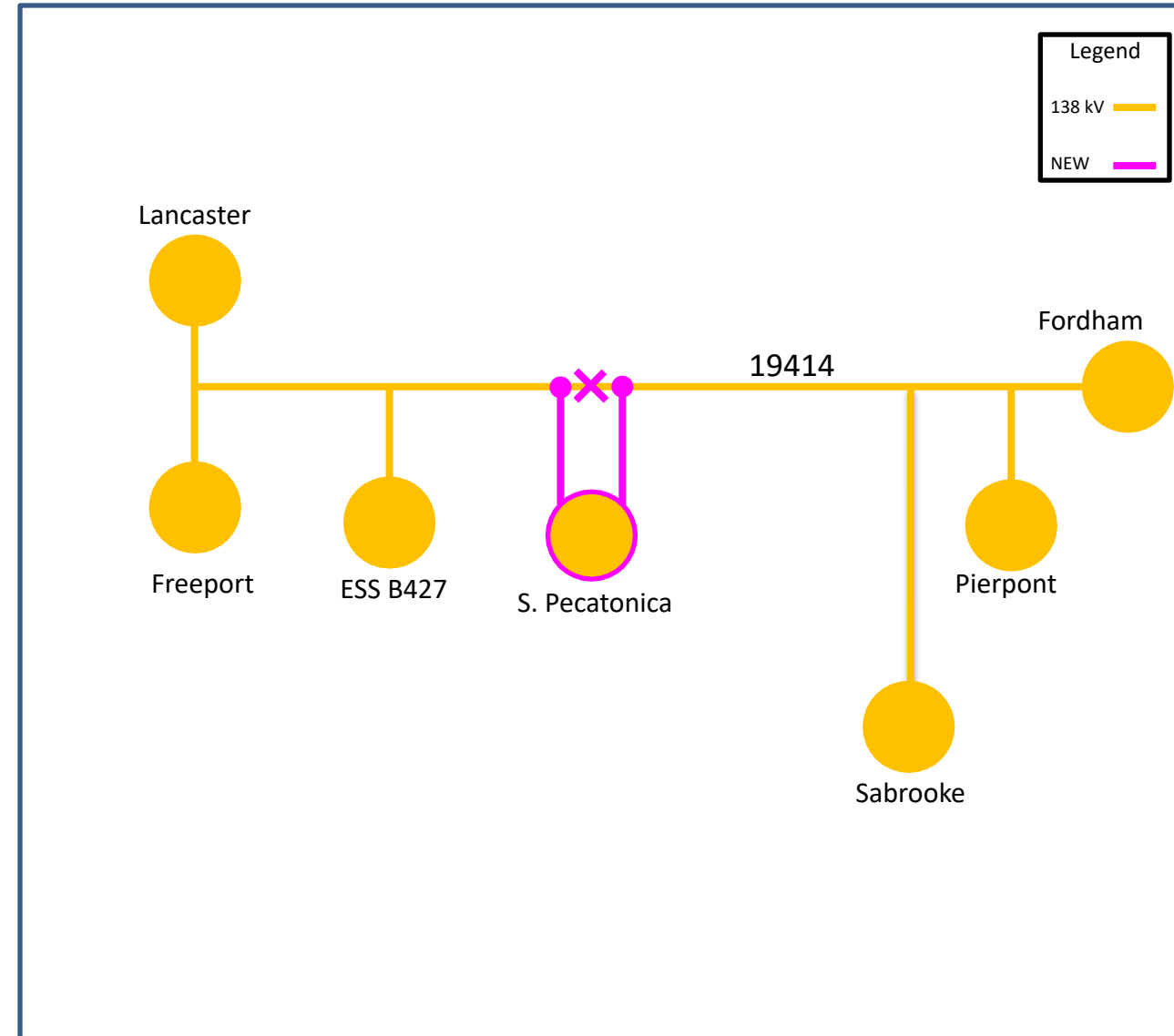
**Alternatives Considered:**

No feasible alternatives available.

**Projected In-Service:** 12/31/26

**Project Status:** Conceptual

**Model:** 2028 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

5/7/2023 – V1 – Original version posted to pjm.com