SRRTEP - Western Committee
ComEd Supplemental Projects

March 14, 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

Need Number: ComEd-2025-004

Process Stage: Need Meeting 3/14/2025

Project Driver:

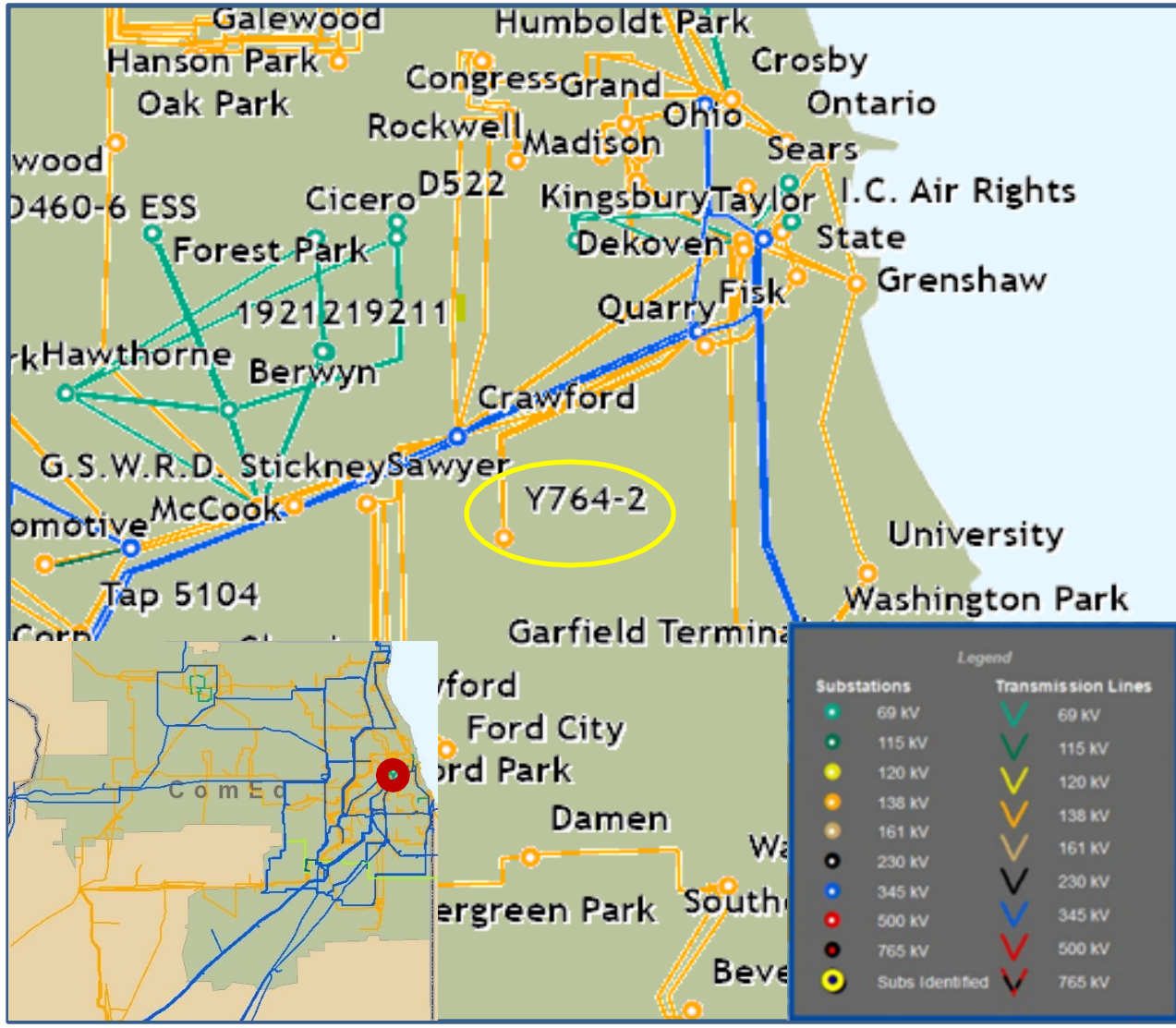
Customer Service

Specific Assumption Reference:

- New transmission customer interconnections or modification to an existing customer

Problem Statement:

An existing customer is looking for expansion of their transmission service in the Chicago area. Initial load increase is expected to be 40 MW in June 2026, 52 MW in 2029, with an ultimate load increase of 52 MW.



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

Need Number: ComEd-2025-003

Process Stage: Solution Meeting 3/14/2025

Previously Presented: Need Meeting 2/14/2025

Project Driver:

Operational Flexibility and Efficiency

Equipment Material Condition, Performance and Risk

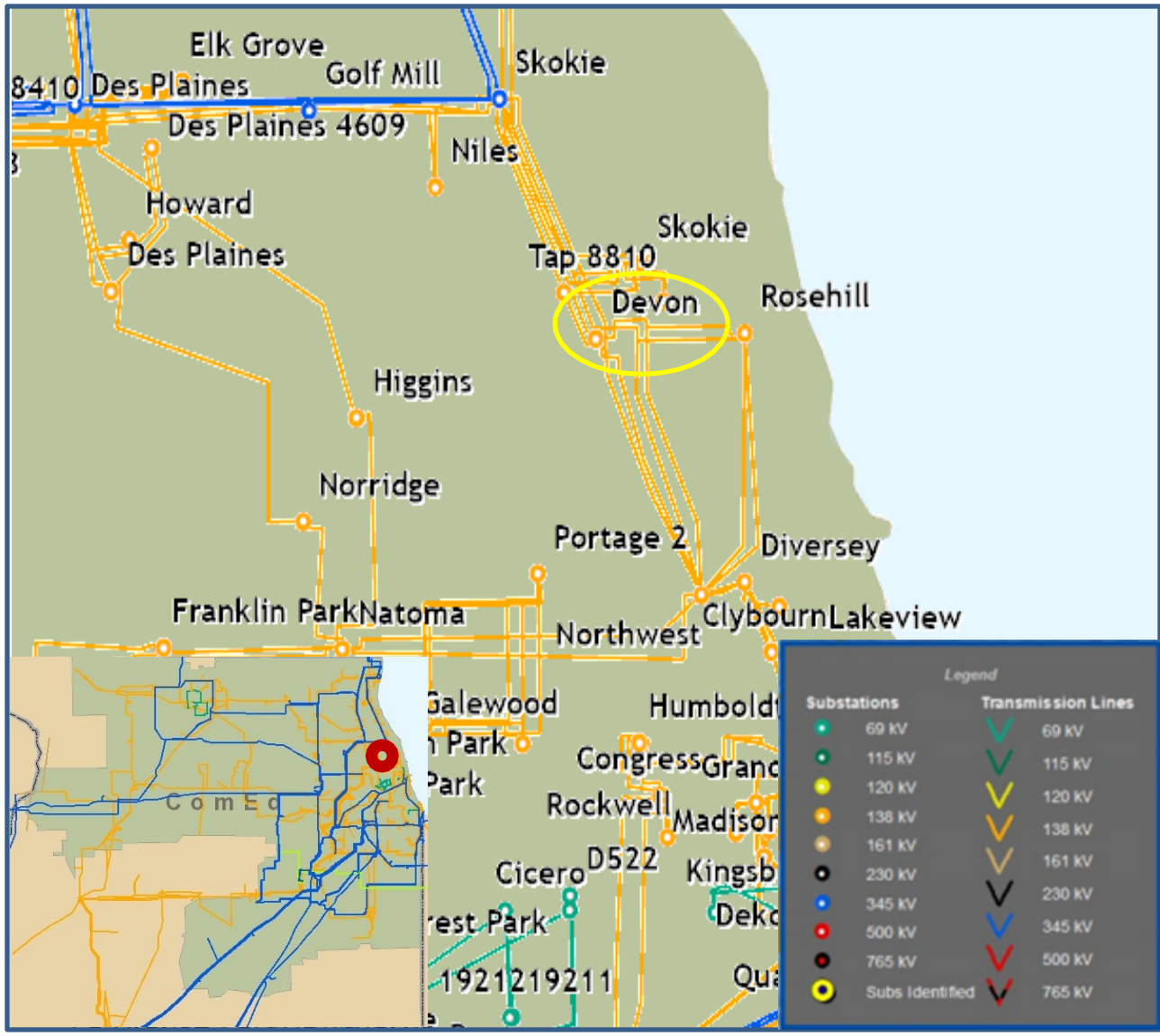
Specific Assumption Reference:

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

Problem Statement:

- Devon 138 kV is currently served by seven 138 kV lines, supplying four 138-12 kV distribution transformers. There are 138 kV line breakers on lines L8803 (Devon-Skokie), L11415(Northwest-Rosehill-Devon), L8809 (Devon-Skokie), L11414 (Northwest-Rosehill-Devon), and L11411 (Northwest-Devon). 138 kV L11416 (Northwest-Devon) has a line circuit switcher. 138 kV L11416 (Devon-Skokie) has a line motor operated disconnect. 138 kV L8810 (Devon-Skokie) has a line disconnect.

- 138 kV oil circuit breakers for L11414 and L11415 were installed in 1953 and the L8810-L11411 oil circuit breaker was installed in 1962 at Devon substation. They are in deteriorating condition, lack replacement parts, and have elevated maintenance costs.



ComEd Transmission Zone M-3 Process

Need Number: ComEd-2025-003

Process Stage: Solution Meeting 3/14/2025

Proposed Solution:

- Replace three 138KV Oil Circuit Breakers for 138KV lines L11415 (Northwest-Rosehill-Devon), L11414 (Northwest-Rosehill-Devon), L11411 (Northwest-Devon).
    - Existing rating 1200A, 40kA; 1600A, 40 kA
    - Proposed rating 3000A, 63kA

- Install 138 kV 3000A SF6 line circuit breakers on 138 kV lines L11416 (Northwest-Devon) , L11416 (Devon-Skokie), and L8810 (Devon-Skokie).
- Install 138 kV, 3000A SF6 circuit breakers on high side of 138-12kV transformers 73 and 74.

Estimated cost: $ 18.9 M

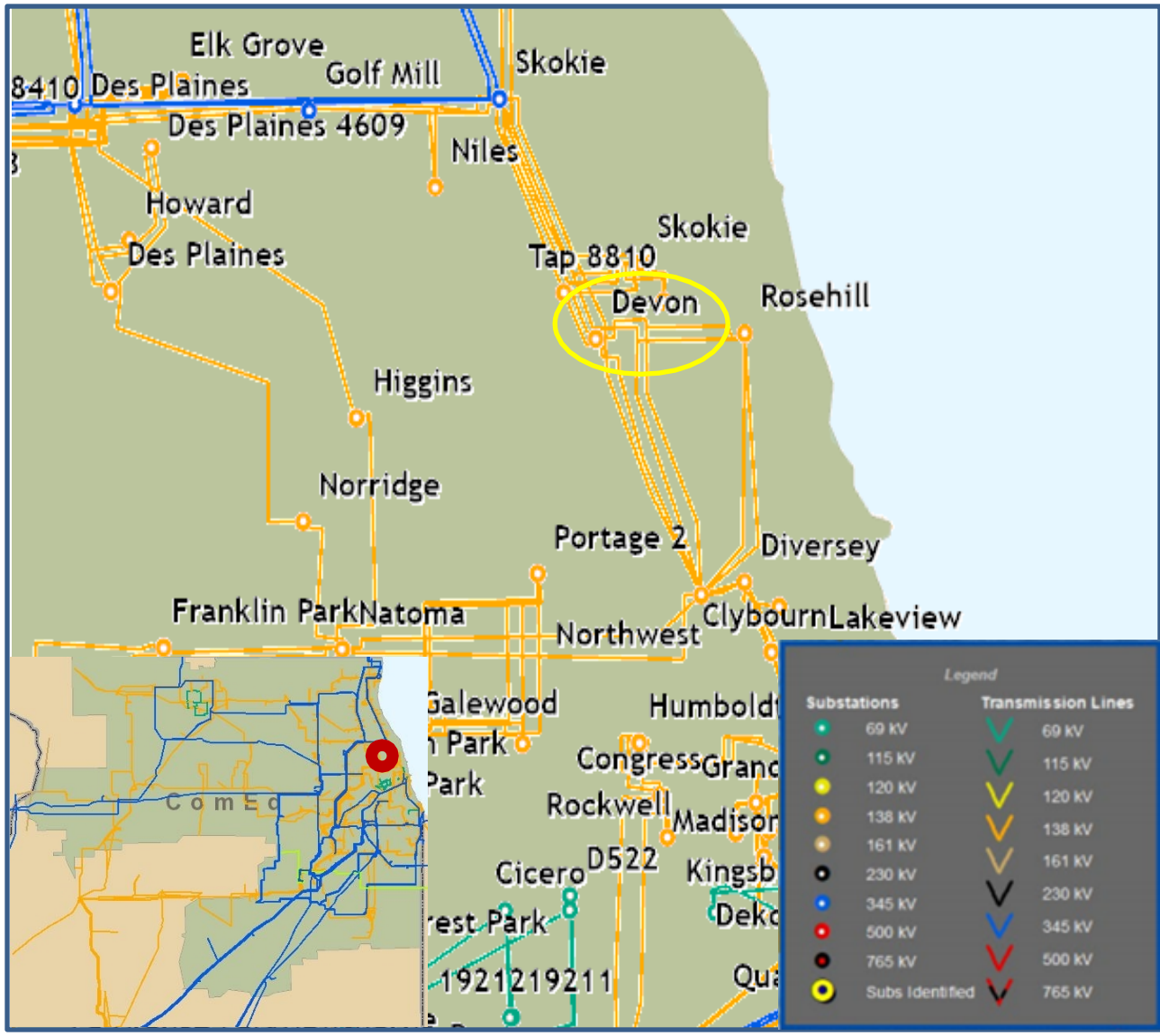
Alternatives Considered:

No feasible alternatives available

Projected In-Service: 12/31/2026

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

3/4/2025 – V1 – Original version posted to pjm.com