



TEAC - Western Committee ComEd Supplemental Projects

November 6, 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-2024-018

Process Stage: Solution Meeting 11/6/2024

Previously Presented: Need Meeting 9/10/2024

Project Driver:

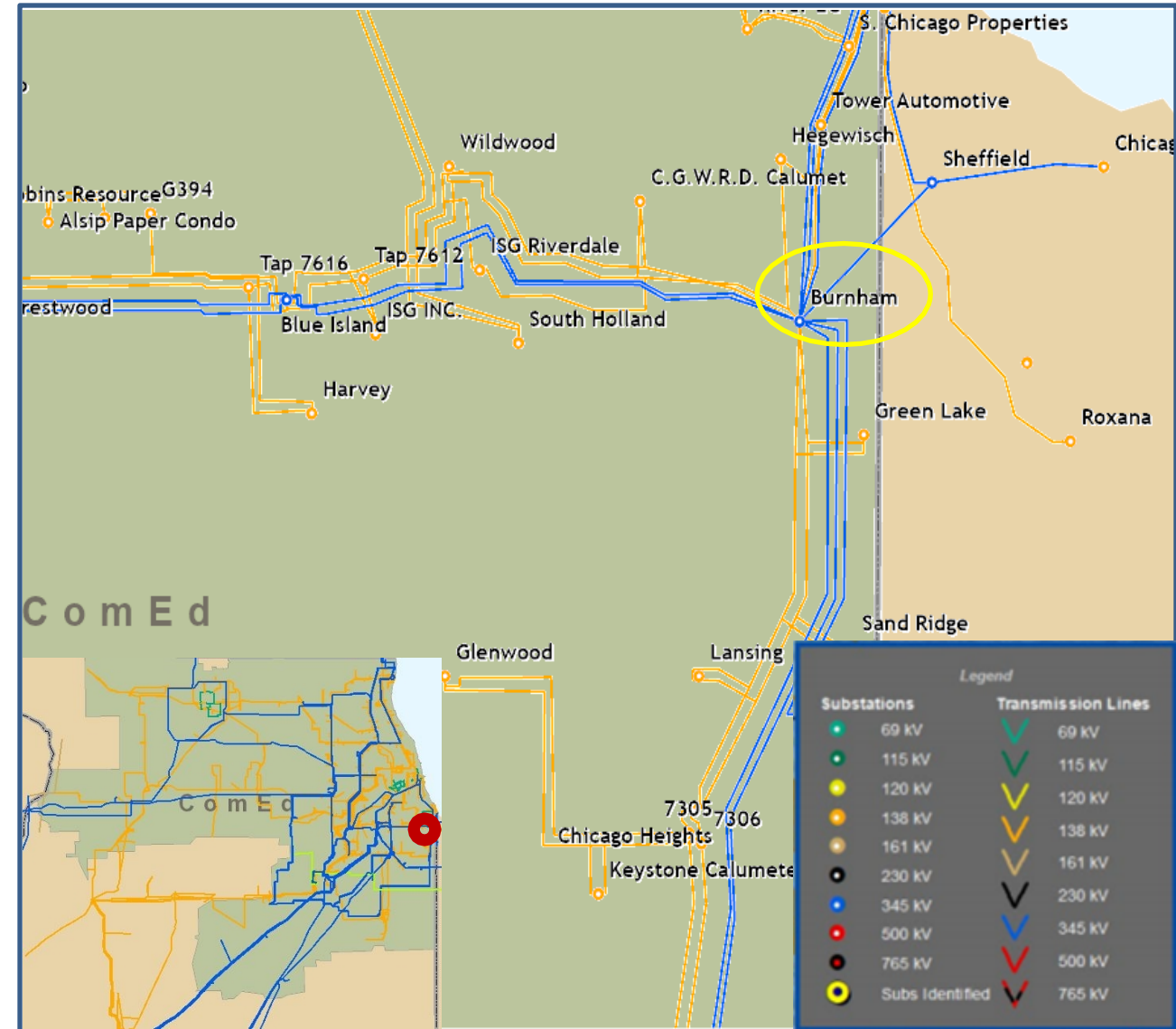
Equipment Material Condition, Performance, and Risk

Specific Assumption Reference:

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

Problem Statement:

- Burnham 345kV BT1-2 oil circuit breaker was installed in 1971. It is in deteriorating condition, has a lack of replacement parts and has elevated maintenance costs.





ComEd Transmission Zone M-3 Process Burnham 345kV BT1-2 CB

Need Number: ComEd-2024-018

Process Stage: Solution Meeting 11/6/2024

Proposed Solution:

Replace existing 345 kV oil BT1-2 CB with new 345 kV SF6 CB.

Existing Breaker Ratings: 2000 A, 50 kA

New Breaker Ratings: 3000 A, 63 kA

Facility	Old Ratings		New Ratings	
	SN/SE	WN/WE	SN/SE	WN/WE
Burnham – Sheffield (Ameren) 345kV	1201/1441	1486/1651	1201/1479	1497/1710

Estimated transmission cost: \$2.1M

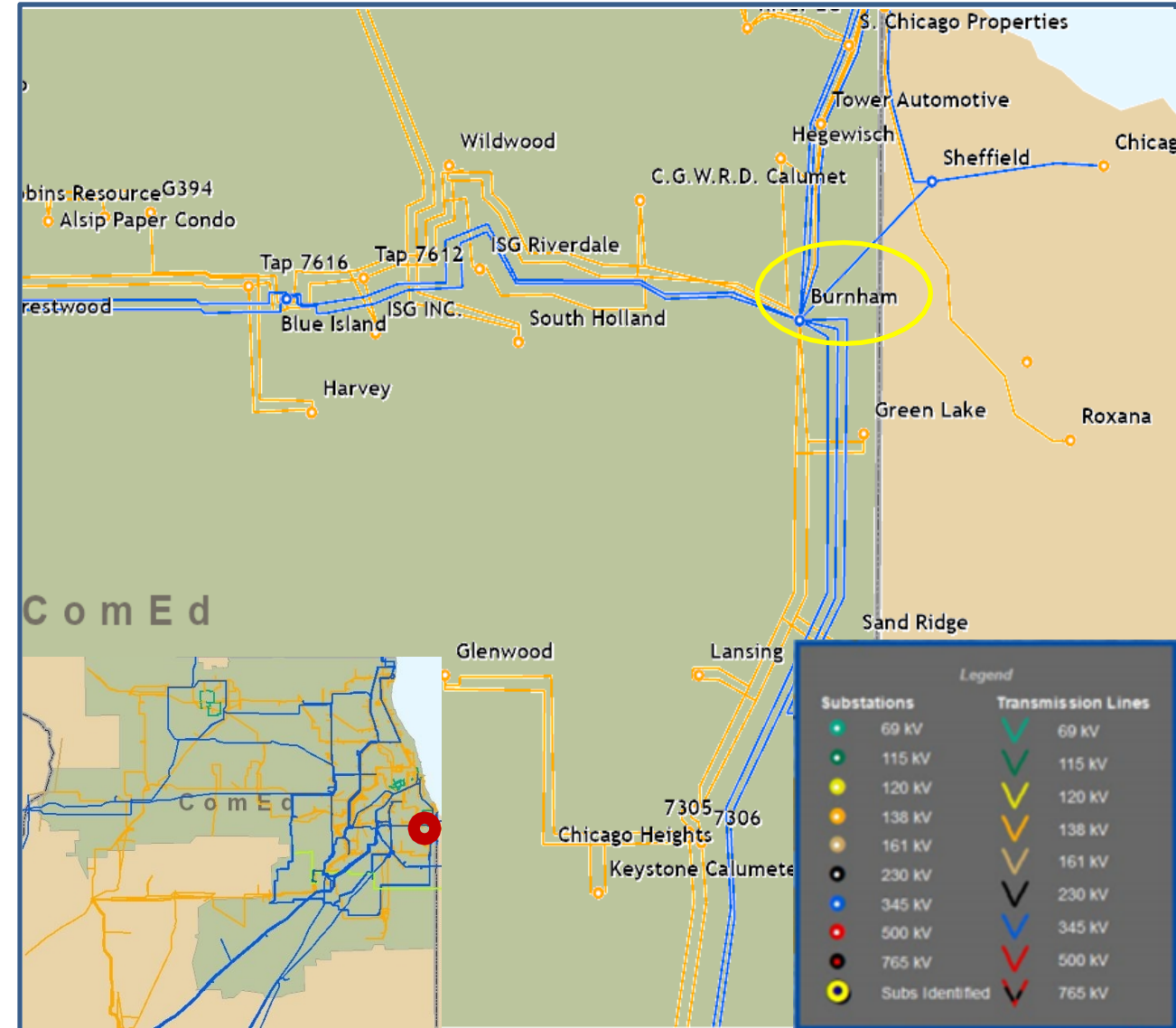
Alternatives Considered:

No feasible alternatives.

Projected In-Service: 12/31/24

Project Status: Engineering

Model: 2029 RTEP



Need Number: ComEd-2024-019

Process Stage: Solution Meeting 11/6/2024

Previously Presented: Need Meeting 9/10/2024

Project Driver:

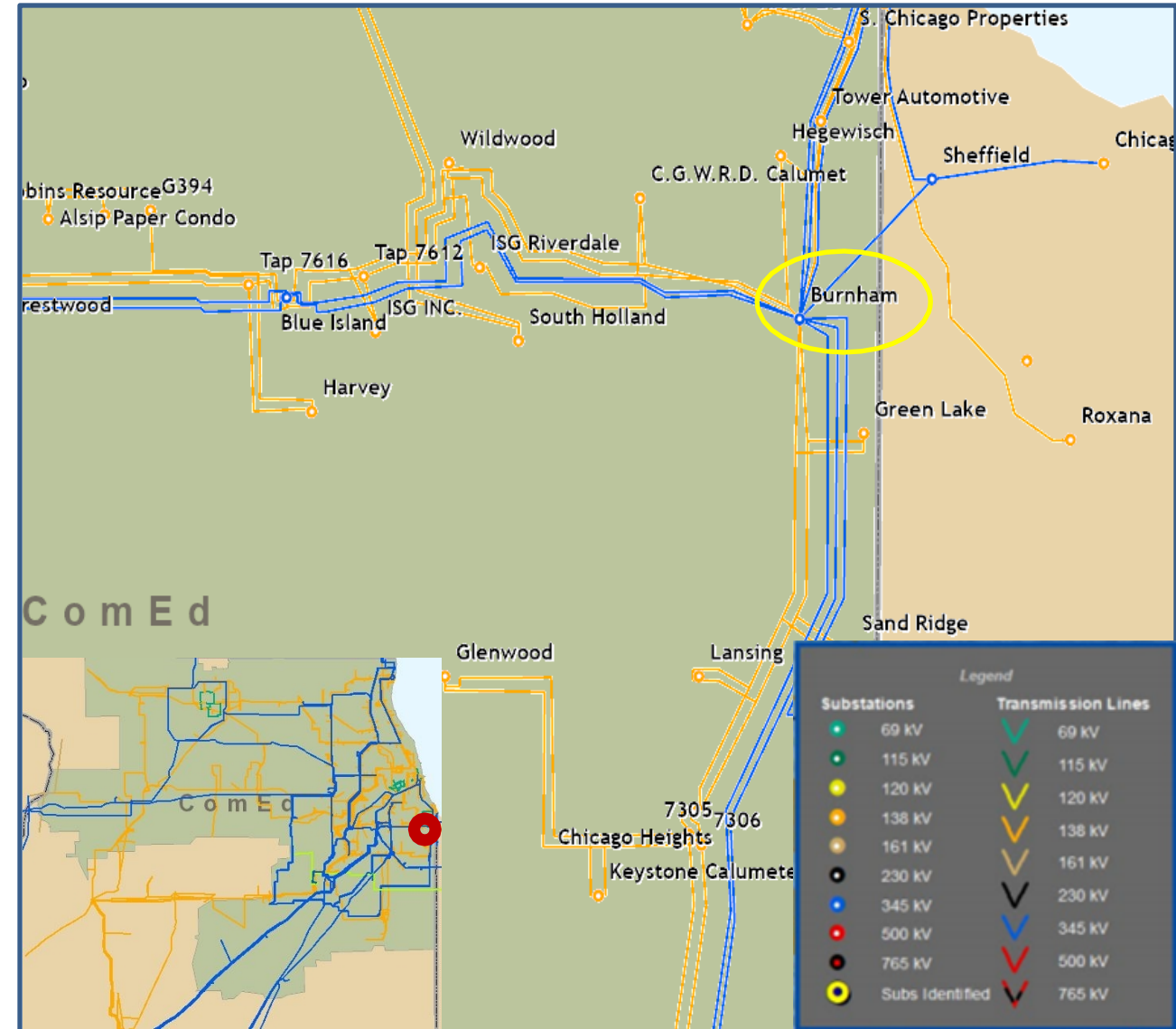
Equipment Material Condition, Performance, and Risk

Specific Assumption Reference:

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

Problem Statement:

- Burnham 345kV BT2-13 oil circuit breaker was installed in 1971. It is in deteriorating condition, has a lack of replacement parts and has elevated maintenance costs.





ComEd Transmission Zone M-3 Process Burnham 345kV BT2-13 CB

Need Number: ComEd-2024-019

Process Stage: Solution Meeting 11/6/2024

Proposed Solution:

Replace existing 345 kV oil BT2-13 CB with new 345 kV SF6 CB.

Existing Breaker Ratings: 2000 A, 50 kA

New Breaker Ratings: 3000 A, 63 kA

Facility	Old Ratings		New Ratings	
	SN/SE	WN/WE	SN/SE	WN/WE
Burnham – Bloom 345 kV	1201/1441	1486/1651	1201/1479	1497/1710

Estimated transmission cost: \$2.1M

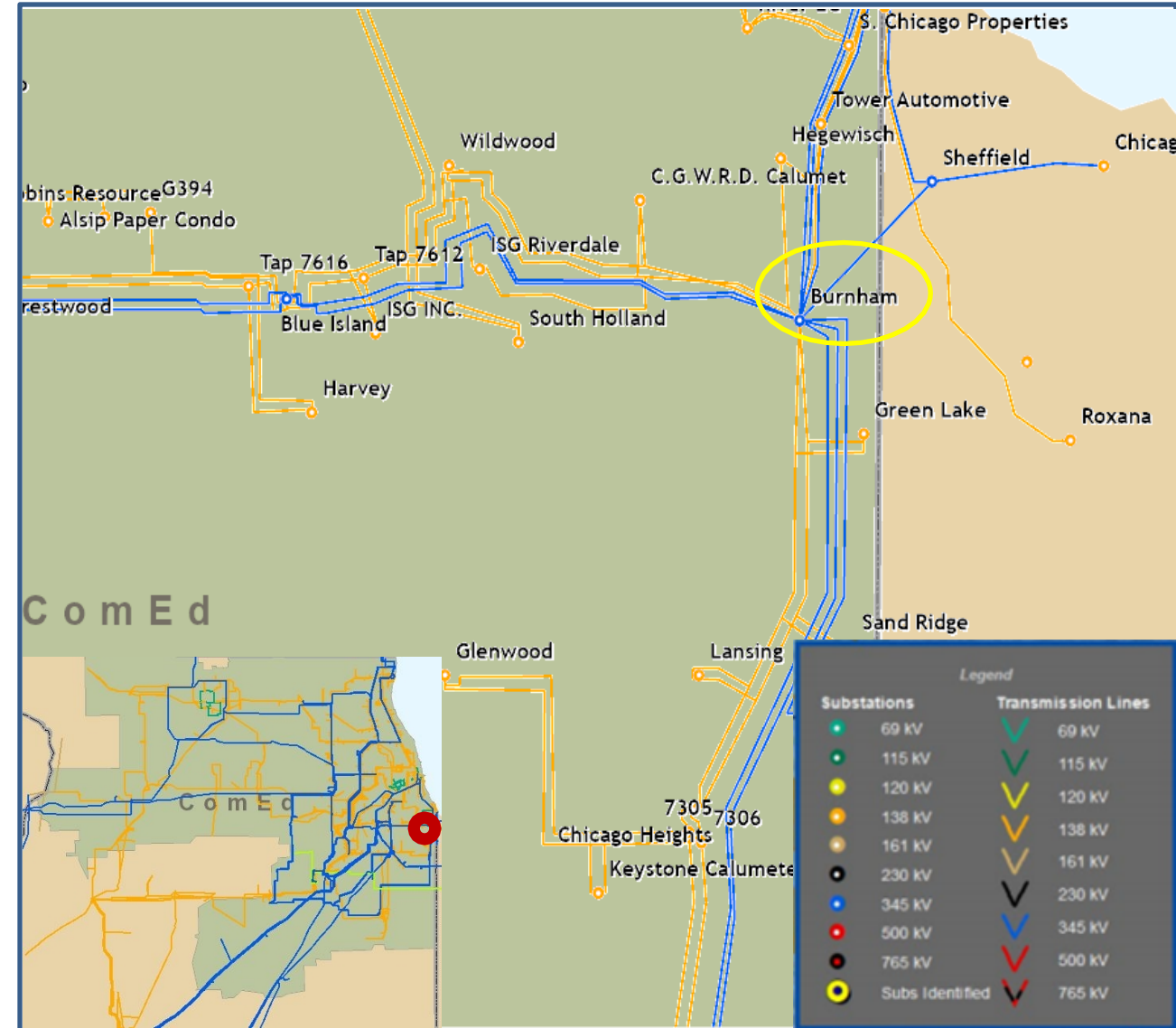
Alternatives Considered:

No feasible alternatives.

Projected In-Service: 12/31/25

Project Status: Engineering

Model: 2029 RTEP



Need Number: ComEd-2024-020

Process Stage: Solution Meeting 11/6/2024

Previously Presented: Need Meeting 9/10/2024

Project Driver:

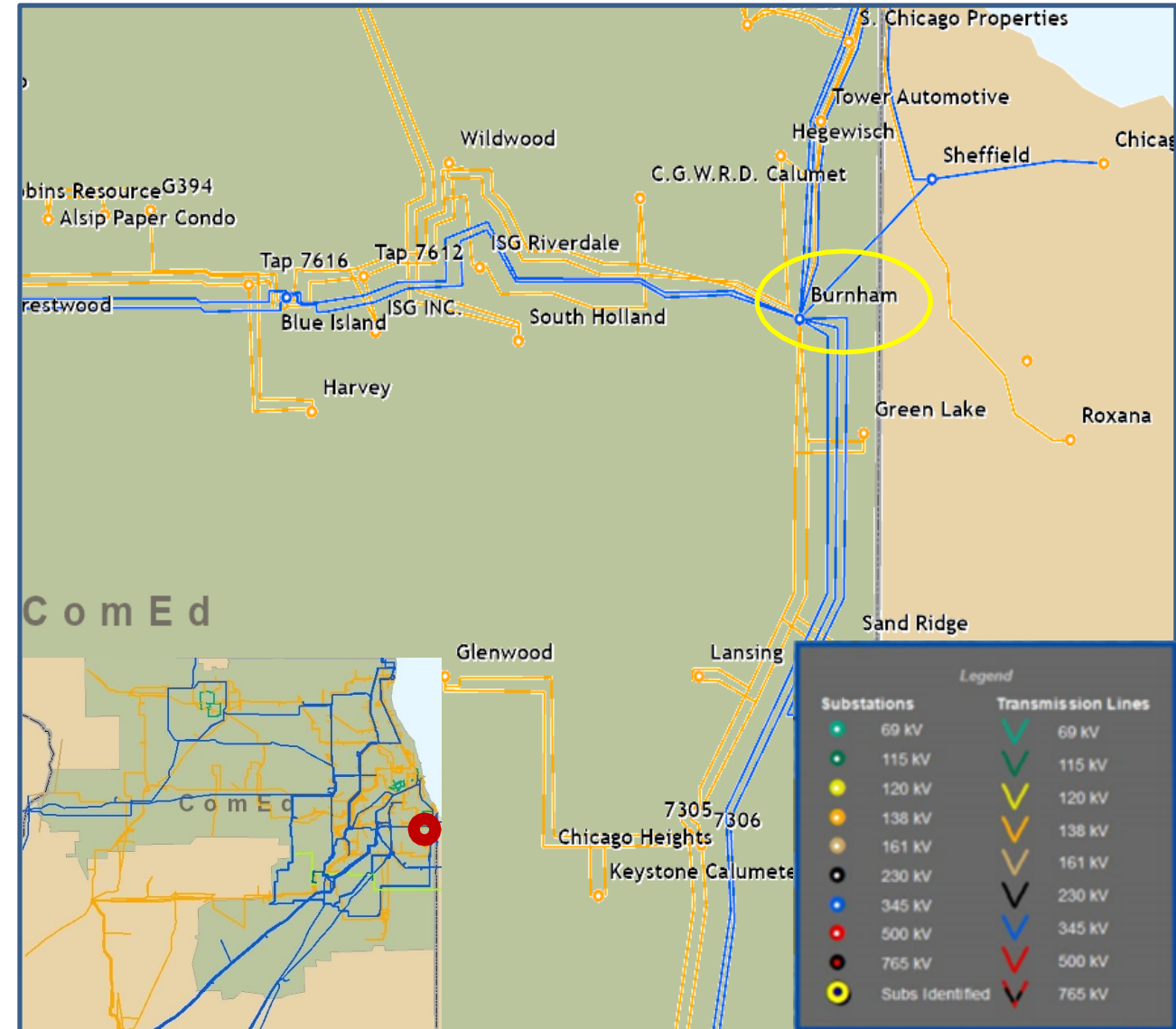
Equipment Material Condition, Performance, and Risk

Specific Assumption Reference:

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

Problem Statement:

- Burnham 345kV BT12-13 oil circuit breaker was installed in 1988. It is in deteriorating condition, has a lack of replacement parts and has elevated maintenance costs.





ComEd Transmission Zone M-3 Process Burnham 345kV BT12-13 CB

Need Number: ComEd-2024-020

Process Stage: Solution Meeting 11/6/2024

Proposed Solution:

Replace existing 345 kV oil BT12-13 CB with new 345 kV SF6 CB.

Existing Breaker Ratings: 2000 A, 50 kA

New Breaker Ratings: 3000 A, 63 kA

Facility	Old Ratings		New Ratings	
	SN/SE	WN/WE	SN/SE	WN/WE
Burnham – State Line 345 kV	1201/1383	1497/1656	1201/1479	1497/1710
Burnham – Davis Creek 345 kV	1201/1383	1497/1656	1201/1479	1497/1710

Estimated transmission cost: \$2.1M

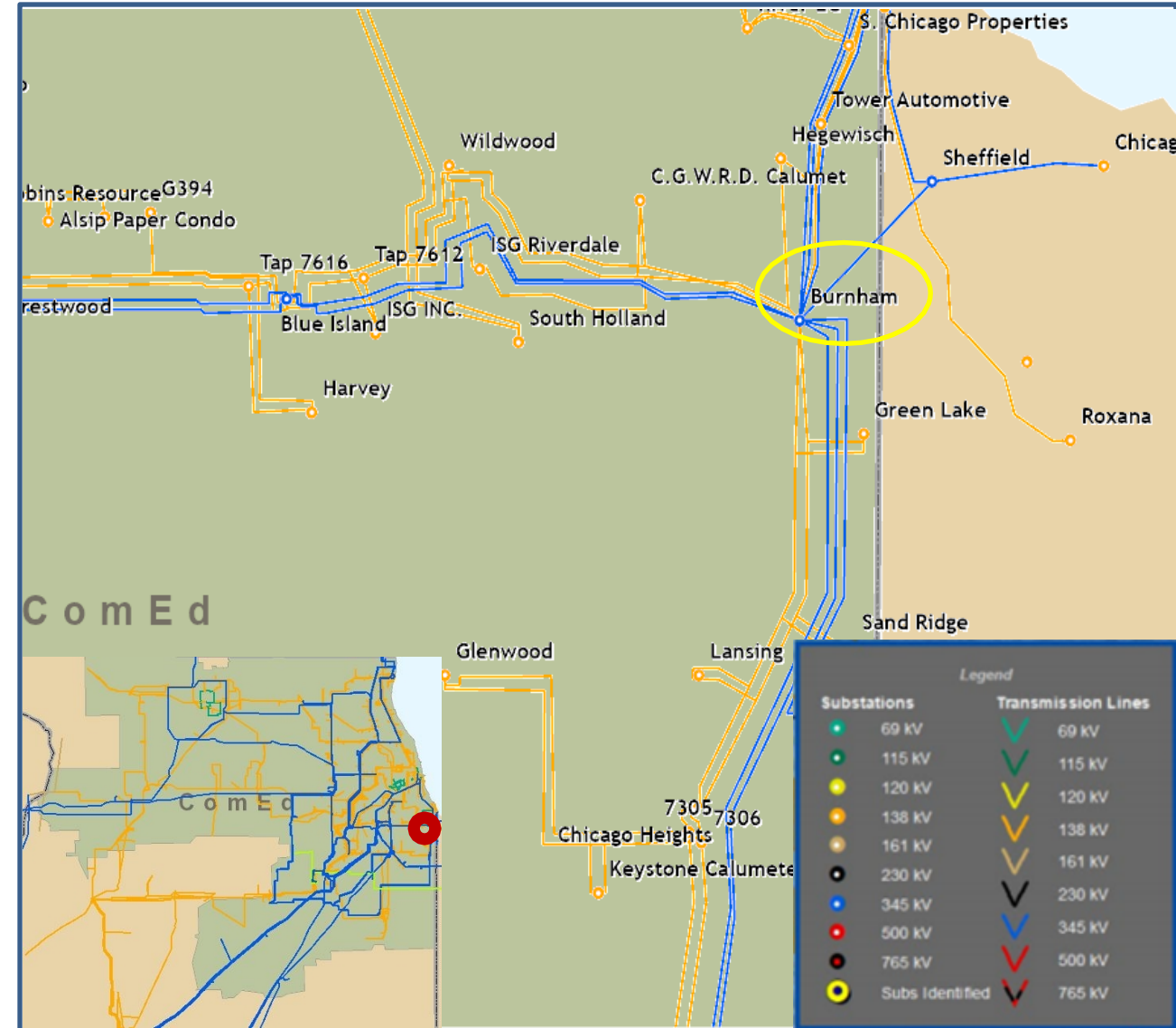
Alternatives Considered:

No feasible alternatives.

Projected In-Service: 12/31/26

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

10/25/2024 – V1 – Original version posted to pjm.com