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June 07, 2023

Melanie A. Bachman, Esq.
Executive Director
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

RE: Notice of Exempt Modification - The Connecticut Light and Power Company's Notice of Exempt Modification Pursuant to RCSA § 16-50j-57 (b) to Existing Energy Facility at Middletown Substation, 1866 River Road, Middletown, Connecticut ("Notice of Exempt Modification")

Dear Attorney Bachman:

The Connecticut Light and Power Company dba Eversource Energy ("Eversource") hereby gives notice to the Connecticut Siting Council ("Council") of its intent to undertake exempt modification activities in accordance with Section 16-50j-57 (b) of the Regulations of Connecticut State Agencies (RCSA) for a proposed modification to Eversource's Middletown Substation described herein.

Eversource's Middletown Substation ("Substation") is located within Eastern Generation's Middletown power station at 1866 River Road, Middletown. The Substation is a 345- and 115-kilovolt ("kV") facility with one 345-kV transmission line and four 115-kV transmission lines.

Proposed Modifications

The proposed modifications will replace three existing backup bus relays with three new backup bus relays to ensure both overcurrent and impedance protection. In conjunction with the bus relay replacements the coupling capacitor voltage transformers ("CCVTs"), will be replaced. All work would take place within the Substation's existing fenced area. More specifically, Eversource proposes the following modifications to the Substation:

- Remove three existing CCVTs, (each 1.2 feet wide by 5.5 feet tall) and associated mounting hardware, tap lines and grounding equipment. The existing CCVTs are currently mounted on three 115-kV strain bus and switch support structures within the Substation. Two of the CCVTs are mounted at a height of 20.5 feet and one is mounted at a height of 39.6 feet.

- Install three new tubular steel mounting frames to support the new CCVTs (each 8.5 feet tall, consisting of two vertical support legs spaced 10 feet apart with a horizontal crossarm 17 feet wide). The new CCVT mounts will be located in front of the existing strain bus and switch support structures mentioned above.
- Install nine new CCVTs (each 1.9 feet wide and 5.9 feet tall) and associated mounting hardware, tap lines, and grounding equipment. Each of the three mounts (described above) will accommodate three CCVTs. The new CCVTs will be attached to the mounts at a base height of approximately 8.5 feet. The overall height of the new CCVTs will be approximately 14 feet above ground level.

The existing Substation arrangement, and the proposed modifications are shown on Attachment A – Middletown Substation – General Arrangement Plan and Sections (REV AN Removals and REV AN Additions).

No Substantial Adverse Environmental Effect

The proposed modifications will not have a substantial adverse environmental effect or cause a significant adverse change or alteration in the physical or environmental characteristics of the Substation because:

- The modifications would be made within the Substation’s existing fenced area on the existing concrete surface and would not cause a significant adverse change to the physical or environmental characteristics of the Substation.
- The new equipment would be shorter than the tallest existing structure within the Substation and would not cause any significant adverse change in the visual characteristics of the Substation.
- The work would not affect wetlands or waterways and will not require tree clearing or vegetation management work.
- The Substation is partially located within the Federal Emergency Management Agency 500-year flood zone.
- Eversource’s review of the Connecticut Department of Energy and Environmental Protection’s Natural Diversity Data Base maps (December 2023) determined that the Substation is within the general polygon identified for state-listed endangered, threatened, or special concern species. However, the modifications will be performed entirely on the developed portion of the Substation, within the generating station property that has long been used for industrial purposes, and no potential rare species habitat would be disturbed.
- There would be no increase in television or radio interference resulting from the modifications.

- The modifications will not affect noise levels and will continue to comply with state noise regulations.
- Electric and magnetic field levels at the Substation boundary would not change as a result of the modifications.

Eversource proposes to commence construction in August 2024. Work is scheduled to be completed by April 2025.

Eversource consulted with the City of Middletown in June 2024 to provide an initial briefing of the proposed modifications. A copy of the Notice of the Exempt Modification filing has been provided to the municipal official of the City of Middletown.

Eversource is submitting this filing electronically and will be providing an original and two hard copies for the Council's records. Eversource is including a check for the requisite fee of \$625.00.

Please do not hesitate to contact me if you have any questions regarding this submittal.

By: Deborah Denfeld

Deborah Denfeld
Team Lead – Transmission Siting
deborah.denfeld@eversource.com

CC: Ben Florsheim, Mayor, City of Middletown

Attachments:

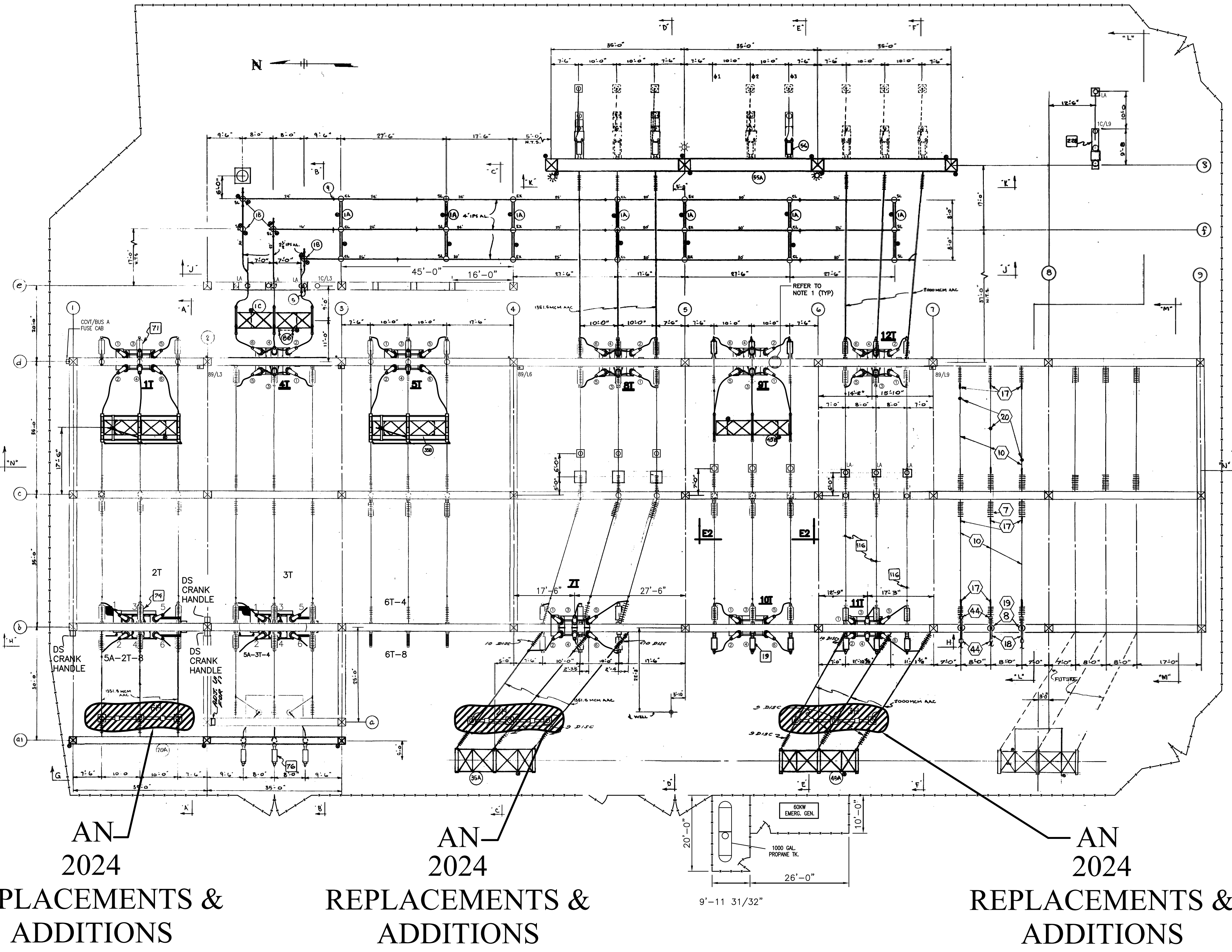
A – Middletown Substation – General Arrangement - Plan & Sections

Attachment A

Middletown Substation

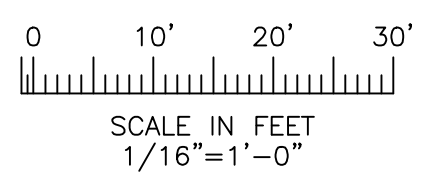
General Arrangement - Plan & Sections
(REV AN Removals and REV AN Additions)

6/5/2024 9:35 AM - mchase-wilkinson - W:\Projects\Design\Info\01-Projects\Eversource CT\2023-Projects\033-Middletown SA Units 2, 3 & 10 Backup Bus Safety Rep\In Design\WIP\Original\MIDDLETOWN_COT_REP_CSC.dwg - REV AN Additions

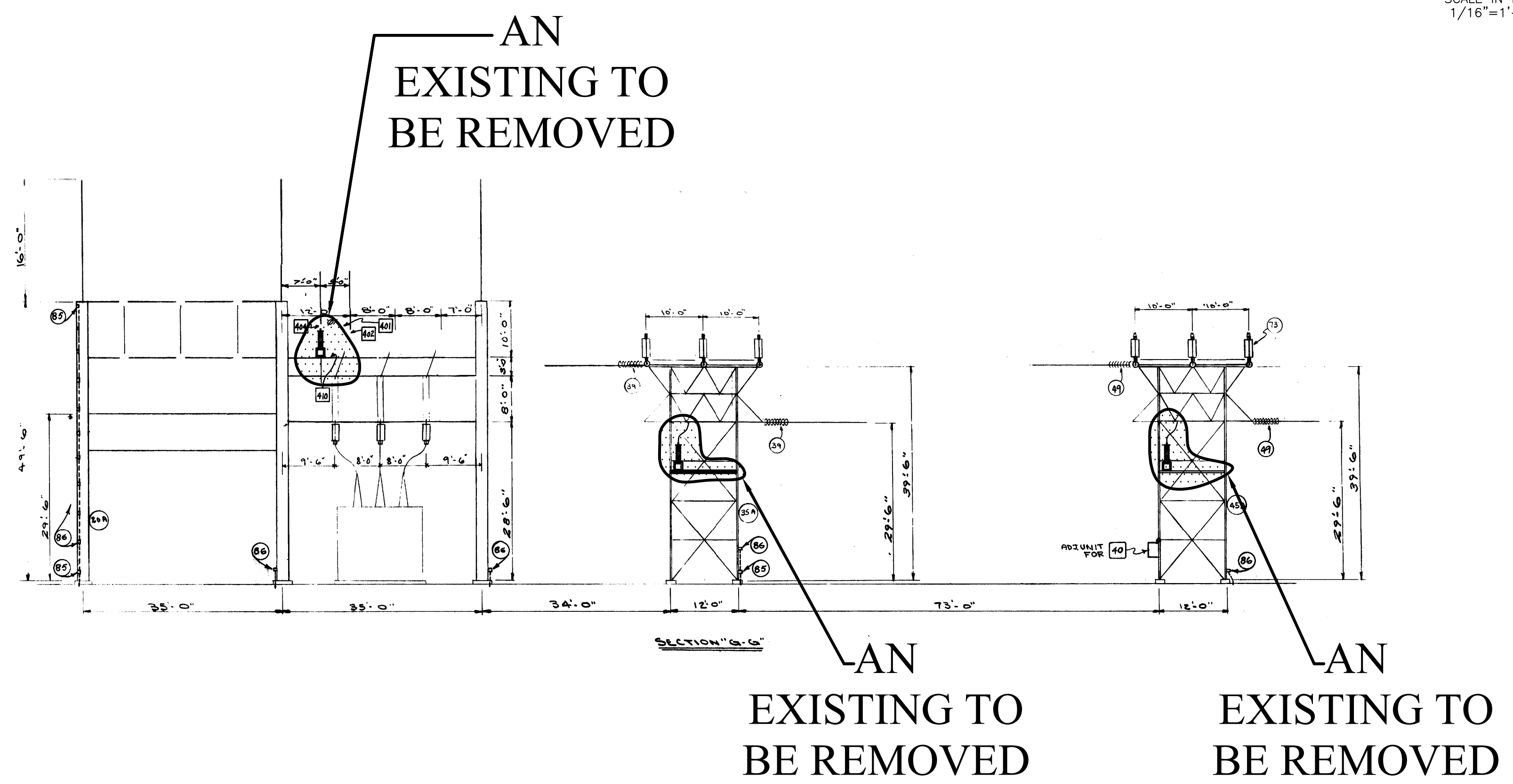


AN 2024 REPLACEMENTS & ADDITIONS
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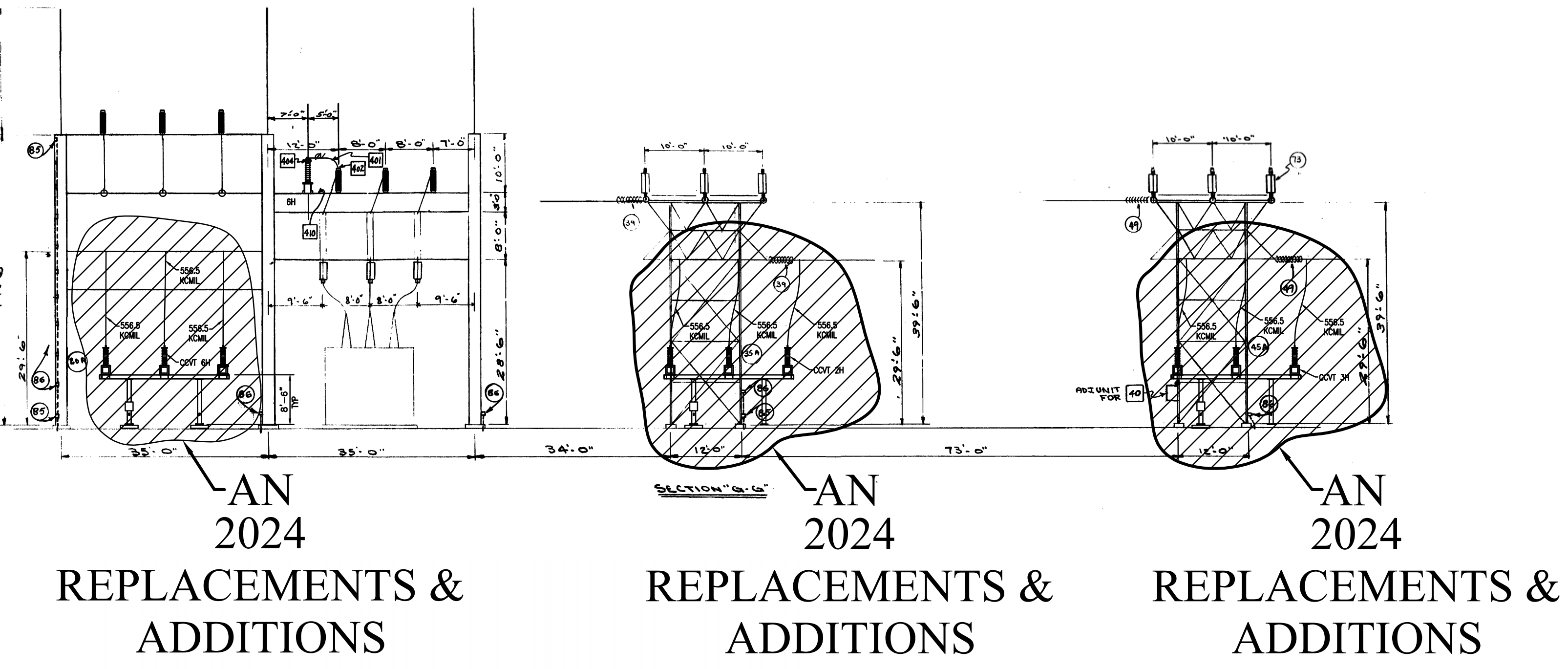
PLAN VIEW
 2024 PROPOSED
 ADDITIONS



LOCATION PLAN



SECTION VIEW
 2024 EXISTING
 TO BE REMOVED



SECTION VIEW
 2024 REPLACEMENTS &
 ADDITIONS

LEGEND

- 2024 REPLACEMENTS & ADDITIONS
- 2024 EXISTING TO BE REMOVED

REV AN ADDITIONS FOR REFERENCE ONLY

REVISIONS DURING CONSTRUCTION					
NO.	DATE	BY	CHK	APP	DESCRIPTION
AN	05/24				COT REMOVAL, REPLACEMENT & ADDITIONS

EVERSOURCE ENERGY	
MIDDLETOWN SUBSTATION GENERAL ARRANGEMENT CONNECTICUT SITING COUNCIL MIDDLETOWN, CT	
DATE	3/22/22
BY	
SCALE	1/16" = 1'-0"