

October 18, 2023

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

RE: The Connecticut Light and Power Company's Notice of Exempt Modification Pursuant to  
RCSA § 16-50j-57(b) to an Existing Energy Facility Site at 148 Greenmanville Ave  
Stonington, Connecticut ("Notice of Exempt Modification")

Dear Ms. Bachman:

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

**Proposed Modifications**

The proposed work would take place on Eversource property at Mystic Substation ("Substation"). The Substation is located at 148 Greenmanville Ave in Stonington, Connecticut. The Substation is a 115/34.5/13.8-kilovolt ("kV") facility connected to two 115-kilovolt ("kV") transmission lines, two 115- to 13.8-kV transformers and two 115- to 34.5-kV transformers. It has one 34.5-kV feeder and nine 13.8-kV feeders that exit the facility.

Eversource received communications from abutters located on the southern side of the Substation expressing concern regarding the sound levels emanating from the Substation (see Attachment A: Aerial View). Eversource conducted a sound study and found that while the overall sound level from the Substation complied with state regulations, the sound levels along the southern side were near the upper limit of permitted sound levels. The sound study identified that the dominant source of transformer noise was one of the 115kV- to 34.5-kV transformers.

In response to the concerns raised by the abutters, Eversource proposes to mitigate sound levels from the Substation by installing a 16-foot-tall modular sound wall around three sides of this 115- to 34.5-kV transformer<sup>1</sup>. The proposed sound wall would be set in place on the southwest and south sides of the transformer and mounted to pre-cast Jersey barriers. A third section of the wall would be set in place on the east side of the transformer with concrete counterweight blocks to secure its location. These two sound wall designs were selected based on the constructability constraints from the location of nearby existing energized equipment. The existing transformer layout and proposed sound wall are shown on Attachment B: General Arrangement Plan & Sections. Following the installation of the wall, Eversource would conduct another sound study to confirm the effectiveness of the sound wall and that sound levels have been reduced.

The proposed modification would 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:

- All modifications would be made within the Substation's existing fenced area.
- The proposed sound wall would be shorter than the tallest existing equipment within the Substation and would not cause any significant adverse change in the physical or environmental characteristics of the Substation.
- The Substation is not in a flood zone and the work would not affect wetlands or waterways.
- Eversource's review of the Department of Energy and Environmental Protection's Natural Diversity Data Base ("NDDB") identified no state-listed endangered, threatened, or special concern species in the vicinity of the Substation.
- There would be no television or radio interference caused by the modifications.
- Sound-pressure levels at the southern perimeter of the Eversource property would decrease, and sound-pressure levels at all points along the perimeter of the property would continue to comply with state regulations.
- Electric and magnetic field levels at the Substation boundary would not change as a result of the modifications.

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<sup>1</sup> The sound study determined that the three other transformers in the Substation did not contribute to the elevated sound levels and concluded that additional sound barriers were not justified.

Eversource proposes to install the modular sound wall in December 2023 and January 2024.

Enclosed are the original and two (2) copies of this Notice of Exempt Modification along with the filing fee of \$625.00.

A notice has been provided to the First Selectman of Stonington.

Communications regarding this Notice of Exempt Modification should be directed to Deborah Denfeld at (860) 728-4564.

A handwritten signature in cursive script that reads "Deborah Denfeld".

By:

Deborah Denfeld  
Team Lead – Transmission Siting

cc: Danielle Chesebrough, First Selectman of Stonington

Attachments: A: Aerial View  
B: General Plan and Sections

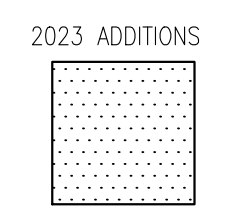
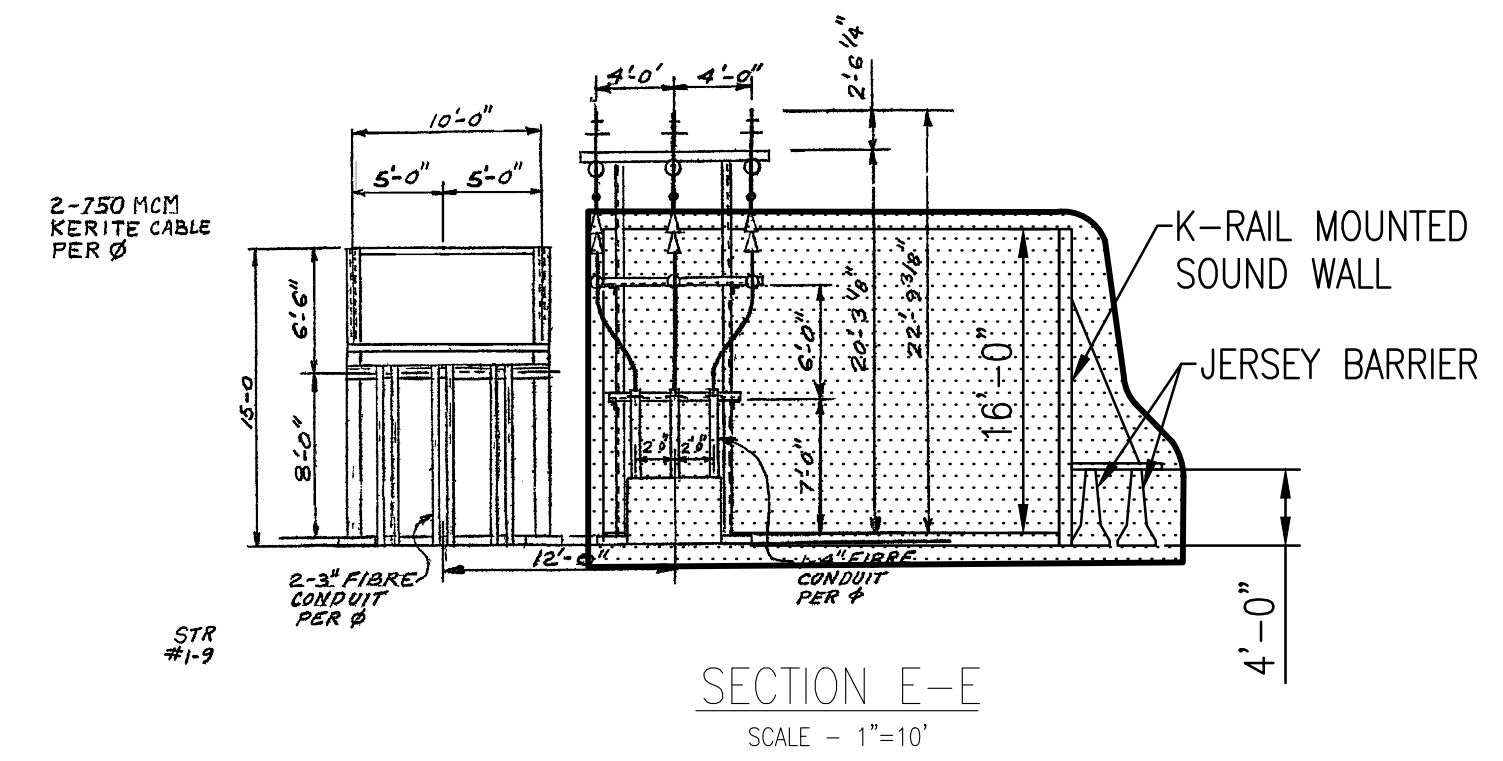
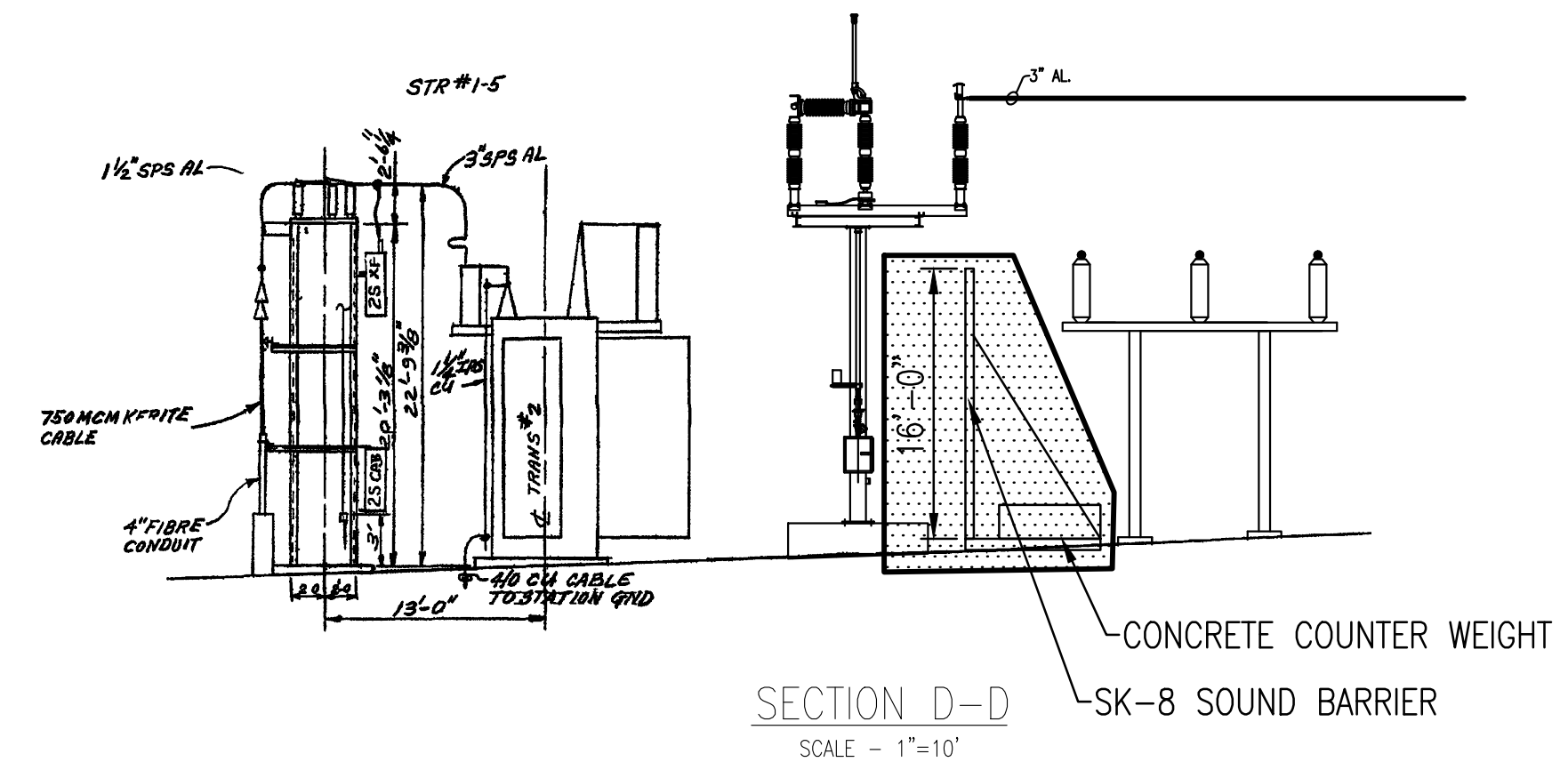
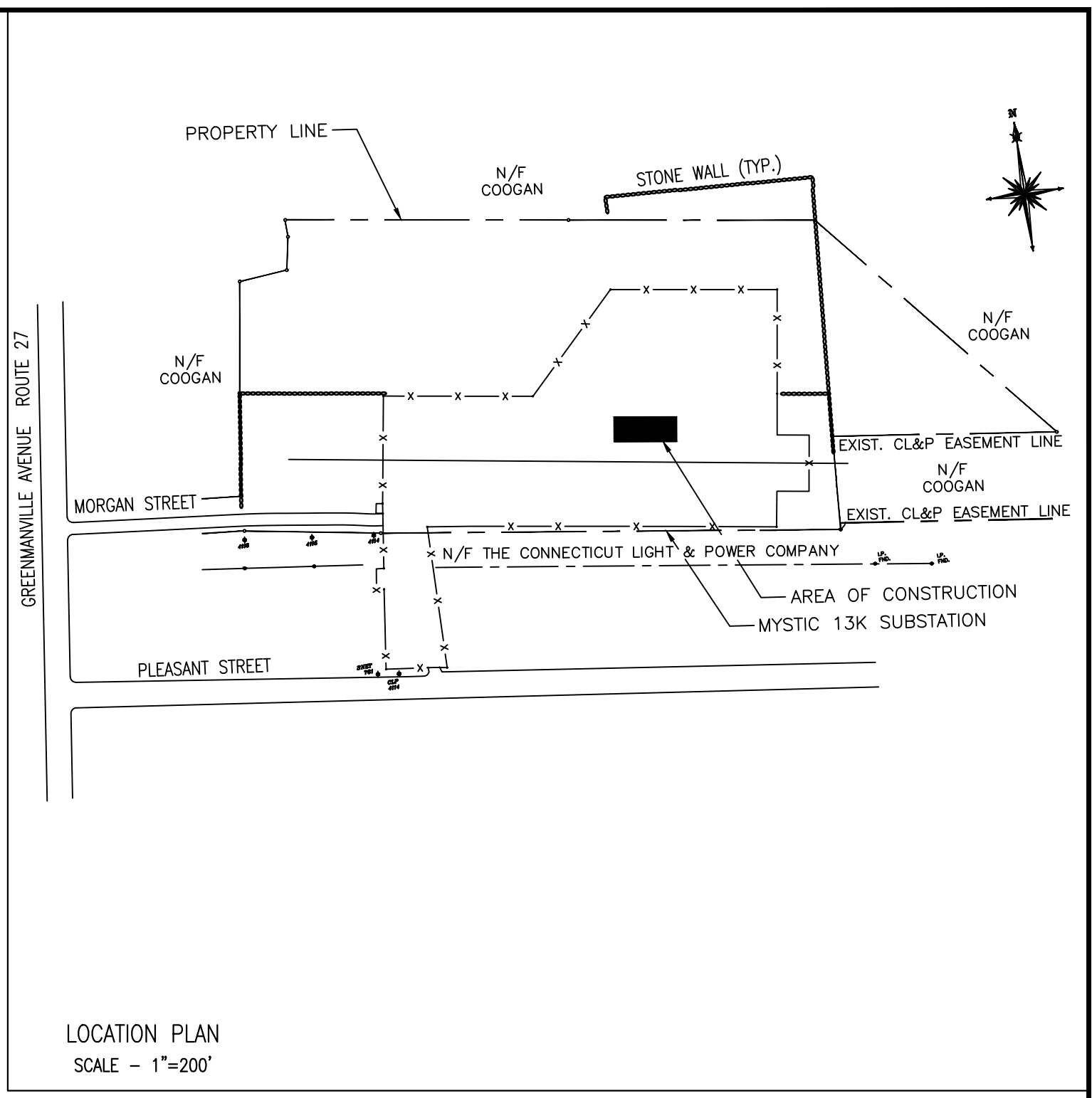
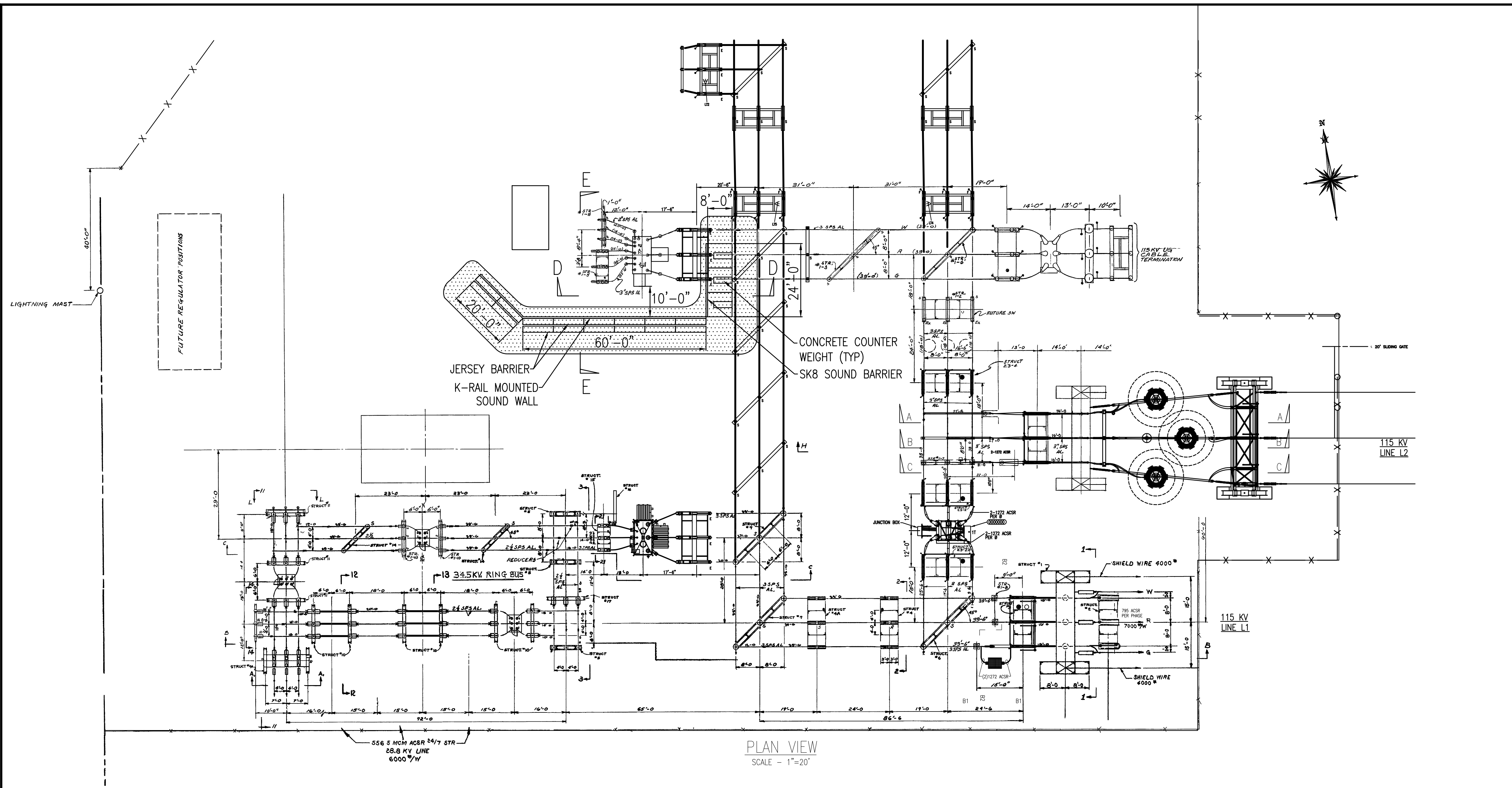
## ATTACHMENT A

Mystic Substation, 148 Greenmanville Ave, Mystic, CT



Area of  
Proposed  
Sound Wall

## ATTACHMENT B



**EVERSOURCE ENERGY**

**MYSTIC 13K**  
GENERAL ARRANGEMENT PLAN & SECTIONS  
CONNECTICUT SITING COUNCIL  
STONINGTON, CT

BY	AMF	CHKD	JDL	APP	LXL	APP	LXL
DATE	9/2023	DATE	9/2023	DATE	9/2023	DATE	9/2023
H-SCALE	AS	SIZE	D	FIELD BOOK & PAGES			
V-SCALE	NOTED	V.S.		R.E. DWG			
R.E. PROJ. NUMBER				DWG NO.	23701-92002		