

Kathleen M. Shanley
Manager – Transmission Siting
Tel: (860) 728-4527

December 22, 2016

Robert Stein, Chairman
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

Re: Southington Substation Control Enclosure

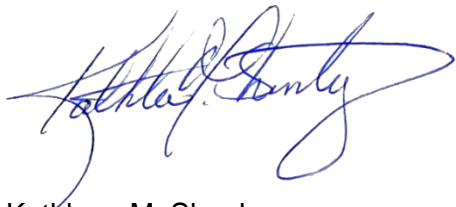
Dear Chairman Stein:

Attached are an original and fifteen (15) copies of a petition on behalf of The Connecticut Light and Power Company doing business as Eversource Energy ("Eversource") requesting a Declaratory Ruling that no Certificate of Environmental Compatibility and Public Need is required for the proposed modifications to the Southington Substation in the Town of Southington, Connecticut ("Petition").

Prior to submitting this Petition Eversource provided written notice of the proposed work and the filing of this Petition with the Council to the Town Manager of Southington and to all abutters. Maps and line lists identifying the abutting property owners who were notified of the Project are provided in Attachment B: Southington Substation Petition Map.

A check in the amount of \$625 for the required filing fee is also attached.

Sincerely,



Kathleen M. Shanley
Manager – Transmission Siting

Enclosure

cc: Garry Brumback, Southington Town Manager

THE CONNECTICUT LIGHT AND POWER COMPANY

doing business as

EVERSOURCE ENERGY

PETITION TO THE CONNECTICUT SITING COUNCIL
FOR A DECLARATORY RULING OF
NO SUBSTANTIAL ADVERSE ENVIRONMENTAL EFFECT
FOR THE PROPOSED MODIFICATIONS TO EXISTING
SUBSTATION IN THE TOWN OF SOUTHINGTON, CONNECTICUT

1. The Connecticut Light and Power Company doing business as Eversource Energy (“Eversource”) hereby petitions the Connecticut Siting Council (“Council”) for a Declaratory Ruling that no Certificate of Environmental Compatibility and Public Need (“Certificate”) is required pursuant to Section 16-50g et seq. of the Connecticut General Statutes for the modifications to the Southington Substation (the “Project”) that are described herein. Eversource submits that no such Certificate is required because the proposed modifications would not have a substantial adverse environmental effect.

2. Purpose of the Project

The purpose of the proposed Project is to eliminate potential transmission system thermal and voltage criteria violations in the Southington area that were identified in the May 2014 Greater Hartford and Central Connecticut Area (“GHCC”) Needs Assessment performed by the Independent System Operator of New England (“ISO-NE”) and in subsequent analyses by Eversource. The proposed modifications within the Eversource’s Southington Substation (“Substation”) will mitigate the identified contingencies and improve reliability in the Greater Hartford area.

3. Project Description

The Project consists of modifications to the Substation located on Eversource's property at 315 Belleview Avenue in Southington. The existing Substation is a facility with 345-kV, 115-kV, 27.6-kV, 13.8-kV and 4.8-kV equipment. There are four 345-kV and twelve 115-kV transmission lines terminated at the Substation, four 345- to 115-kV transformers, one 115-kV to 27.6-/4.8-kV transformer, two 115- to 13.8-kV transformers, three 27.6-kV and ten 13.8-kV distribution circuits located at the Substation. The proposed modifications to the Substation are shown on Attachment A: Drawing No. 23101-92001- Southington Substation General Arrangement - Plan & Sections (A-J) – Connecticut Siting Council.

Detail of the proposed scope of work is as follows:

- a) Installation of one 345-kV sodium hexafluoride ("SF₆") series circuit breaker. The existing manual disconnect switch will be relocated approximately 25 feet west to accommodate the circuit breaker. (Section A – A)
- b) Replacement of six single-phase 115-kV 3% impedance line reactors with six single-phase 115-kV 5% impedance line reactors. The existing circuit switchers would be relocated approximately 38 feet to the east of the existing location to accommodate the new reactors. (Section B – B)
- c) Relocation of one 115-kV disconnect switch approximately 28 feet northwest from its existing location and the relocation of three 115-kV capacitive coupling voltage transformers (CCVT) approximately 116 feet to the west from their existing location to accommodate the new reactors. (Sections E-E and G-G)
- d) The existing circuit breaker would be relocated approximately 64 feet to the south of its existing location to accommodate the new reactors. (Section E-E)
- e) Installation of one 115-kV SF₆ circuit breaker. The existing disconnect switch will be relocated approximately 13 feet west from the existing location to accommodate the new circuit breaker. (Section F-F)
- f) Installation of three new 115-kV CCVTs. (Section F-F)
- g) Removal of three 115-kV potential transformers and associated 115-kV disconnect switch. (Section H-H)
- h) Installation of three single-phase 115-kV 3% impedance ring bus tie reactors. (Section H-H)
- i) Installation of six single-phase 115-kV current transformers. (Section H-H and Section J-J)
- j) Installation of two 115-kV motor-operated disconnect switches. (Section H-H)

- k) Installation of two new H-frame structures that would have height of approximately 45 feet above ground level to accommodate the current transformers and single-phase 115-V motor-operated disconnect switches. (Section H-H)
- l) Installation of foundations, lightning masts, bus supports and bus connections for the equipment and structures listed above.
- m) Installation of one 115-kV ballistic rated, metal-clad (ash gray color) relay and control enclosure to house battery systems and related protection and control equipment. The dimensions of the enclosure would be approximately 120 feet long by 31 feet wide by 15 feet high on a new foundation. (Sections C-C and D-D)
- n) A portion of the existing fence on west side of the Substation would be extended to accommodate the new control enclosure. An approximately 205 foot long section of the substation fence would be extended approximately 47 feet west on Eversource's property from the existing fence location. The extended fence section would be seven feet high with one and a quarter inch mesh and one foot of three-strand barbed wire. (Plan View)
- o) Installation of underground conduits and cable, relay/controls to accommodate the new equipment.

Removal of approximately 20 pine trees, approximately 40 to 50 feet tall, on Eversource's property is necessary to accommodate the substation expansion for the proposed new control enclosure.

4. The Project would not have a substantial adverse environmental effect or cause a significant adverse change or alteration in the physical or environmental characteristics because:

a) Radio and Television Interference

There would be no change to the existing television or radio interference at the Substation.

b) Sound Pressure

Sound-pressure levels at all points along properties lines would continue to meet state regulations set out in Regulations of Connecticut State Agencies §§ 22a-69-1 et seq.

c) Substations Appearance

All new equipment would be shorter than the tallest existing structure on Eversource's property. The new equipment to be installed would not cause any significant adverse change in the physical or environmental characteristics of the Substation. The proposed control enclosure would be on the west side of the

Substation, parallel with Belleview Avenue and not result in a significant change in views of the facility.

d) Substation Security Measures and Lighting

The Substation has existing security measures including security cameras, an alarm system and lighting for safety and security purposes.

e) Environmental Effects

- Eversource's review of the Connecticut Department of Energy and Environmental Protection's ("CT DEEP") Natural Diversity Data Base did not identify any state-listed endangered, threatened, or special concern species within the Project area.
- Eversource does not anticipate the need to disturb or clear any wetland vegetation. The proposed modifications are not located within a 500- or 100-year flood zone.
- A cultural (archaeological and historical) resources review of the Project was conducted by Heritage Consultants, LLC ("Heritage"). A May 5, 2016 report obtained from Heritage indicates that no adverse impacts to cultural resources are anticipated to occur as a result of the proposed modifications.
- Eversource's review of the CT DEEP *Aquifer Protection Areas* map of Southington, Connecticut (dated October 2016) identified the Project is located within a Level A APA¹ (Final Adopted) aquifer protection area. The Project is not anticipated to adversely impact the mapped aquifer. The proposed fence extension will not result in an increase in runoff, and all the equipment being added is similar in nature to equipment that is already present and will not pose a risk for a significant discharge of hazardous materials or fluids. Any spills that may occur during construction would be appropriately managed by the contractor in

¹ Level A aquifer protection area (final adopted) represents the CT DEEP approved area within which municipal land use controls designed to protect public water supply wells serving more than 1,000 people from contamination can be implemented.

accordance with Eversource's *Best Management Practices Manual for Massachusetts and Connecticut* (September 2016). Lastly, the Project would not affect public/private water supply wells.

- No publically accessible scenic or recreational resources were identified within the Project area.
- Electric and magnetic field levels at the boundary of the Substation would not change as a result of the modifications.

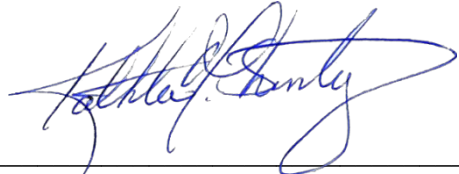
5. Municipal Outreach

In November 2016, Eversource consulted with the municipal officials in the Town of Southington to brief them on the proposed Project. Eversource also provided representatives of the Town of Southington with written notice of the Petition filing. In conjunction with the submission of the Petition, all abutting property owners were notified of the filing and provided information on how to submit comments to the Council and how to obtain additional information on the Project. In addition, Eversource representatives will contact adjacent property owners via mail to notify them of the start of construction activities. Project representatives will also be available throughout the construction process to address any specific questions or concerns regarding Project or restoration activities.

6. Eversource proposes to begin construction in March 2017 and complete construction and restoration by the end of 2018.
7. Section 16-50k(a) of the Connecticut General Statutes provides that a Certificate of Environmental Compatibility and Public Need is needed for proposed modifications of a facility that the Council determines would have a “substantial adverse environmental effect.” Eversource respectfully submits that the proposed modifications would not result in a substantial adverse effect on the environment or ecology, nor would they damage existing scenic, historical or recreational values. Accordingly, Eversource requests that the Council issue a declaratory ruling that the proposed modifications would have no substantial adverse environmental effect and, therefore, no Certificate is required.

8. Communications regarding this Petition for a Declaratory Ruling should be directed to:

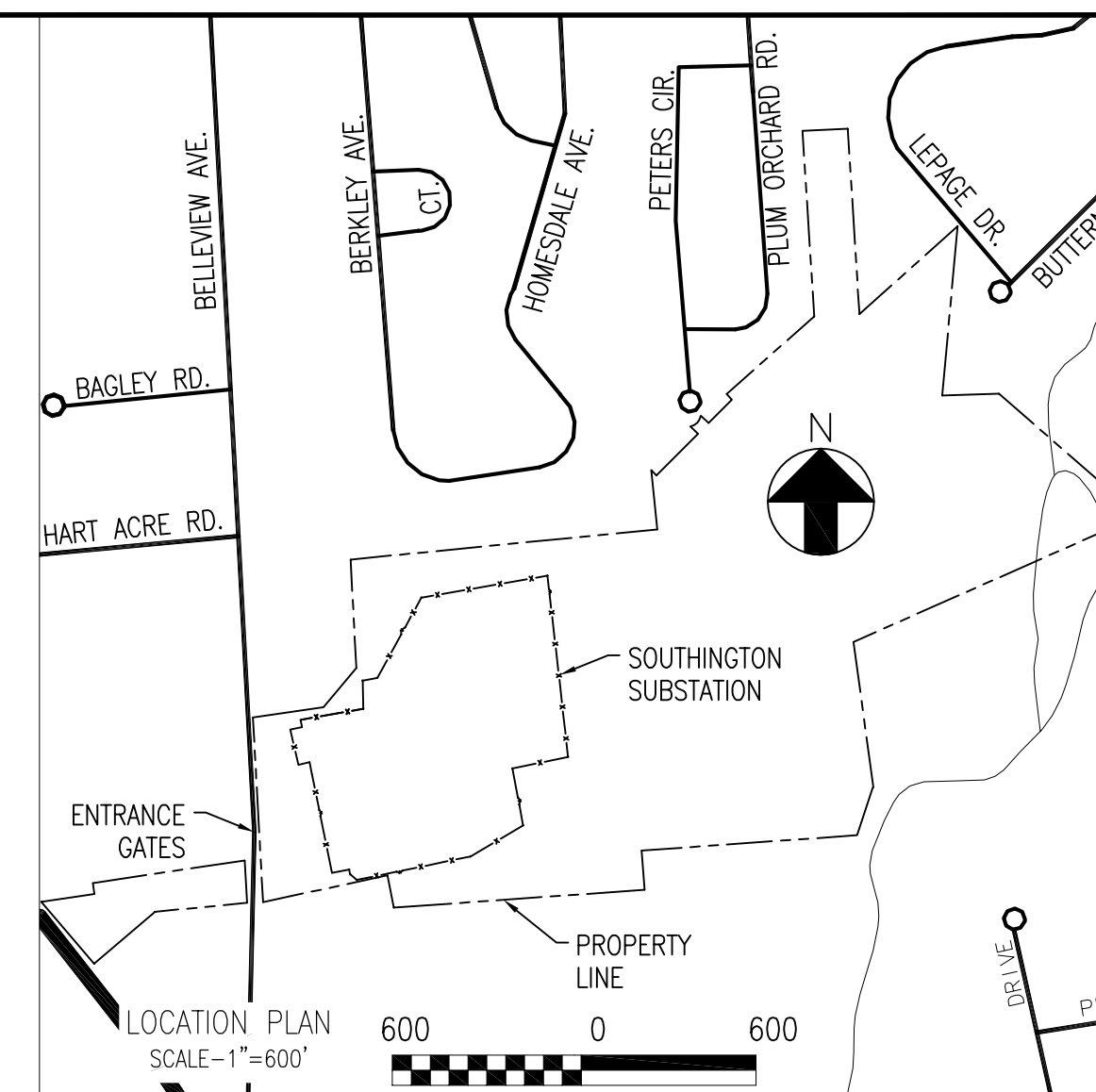
Kathleen M. Shanley
Manager – Transmission Siting
Eversource Energy
PO Box 270
Hartford, CT 06141-0270
Telephone: (860) 728-4527

By: 
Kathleen M. Shanley
Manager – Transmission Siting

List of Attachments

Attachment A: Drawing No. 23101-92001- Southington Substation, General Arrangement - Plan & Sections (A-J) – Connecticut Siting Council.
Attachment B: Southington Substation Petition Map
Attachment C: Letter to the Abutters and Affidavit

ATTACHMENT A



— x — x — EXISTING FENCELINE
— ○ — ○ — NEW FENCELINE

2017 PROPOSED ADDITIONS

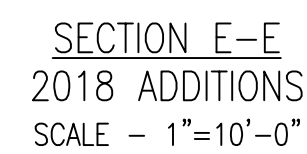
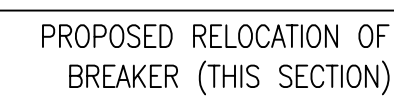
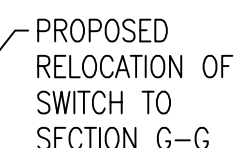
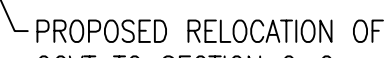
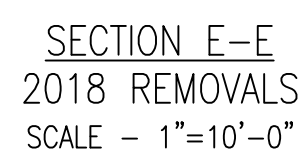
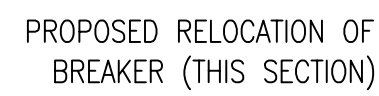
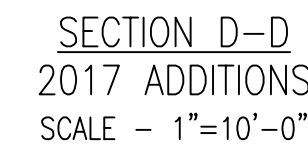
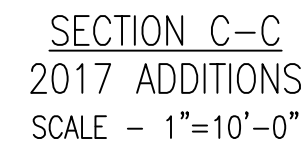
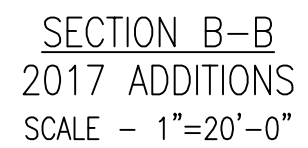
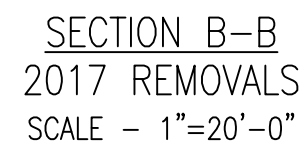
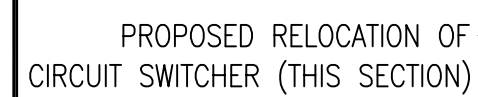
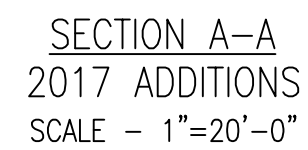
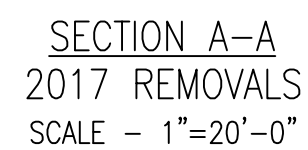
2018 PROPOSED ADDITIONS

REVISIONS DURING CONSTRUCTION					

EVERSOURCE
ENERGY

SOUTHINGTON SUBSTATION
GENERAL ARRANGEMENT – PLAN
CONNECTICUT SITING COUNCIL
SOUTHINGTON, CT

RY	KPK	CHRD	PLW	APP	PLW	APP	PSM
DATE	4/90	DATE	4/90	DATE	4/90	DATE	4/90
H-SCALE	AS NOTED	SIZE	D	FIELD BOOK & PAGES			
V-SCALE	AS NOTED	V.S.	-	R.E. DWG			
P	REV. PROJ. NUMBER	-	DWG NO.		23101-92001		



LEGEND

2017 PROPOSED ADDITIONS

2018 PROPOSED ADDITIONS

2017 PROPOSED REMOVALS

2018 PROPOSED REMOVALS

REVISIONS DURING CONSTRUCTION

EVERSOURCE
ENERGY

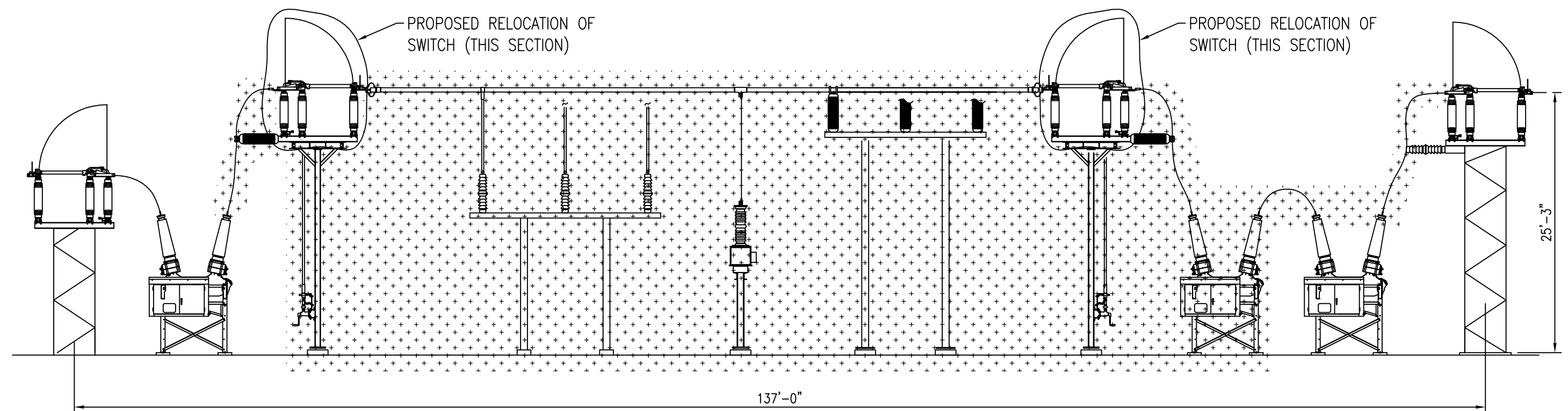
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BY	KPK	CHKD	PLW	APP	PLW	APP	PSM
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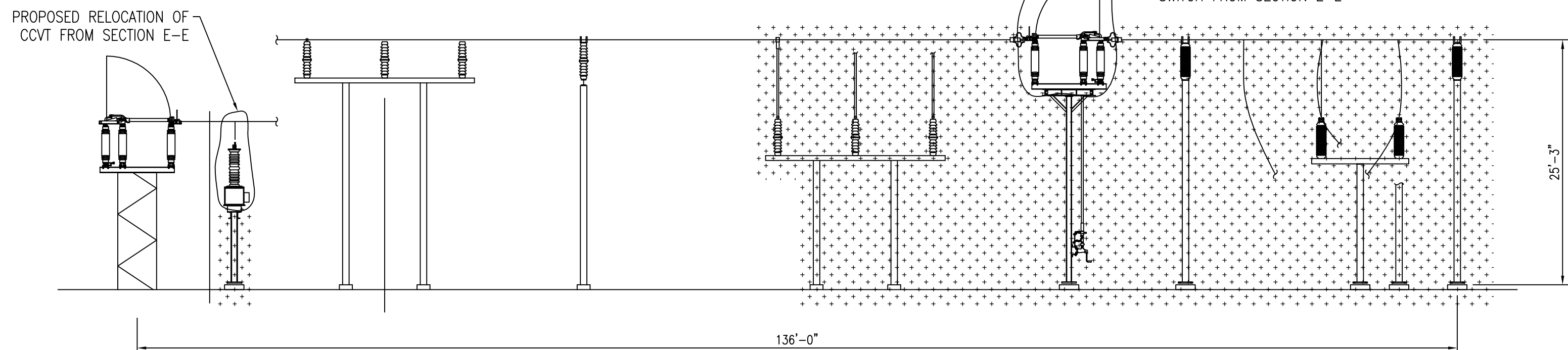
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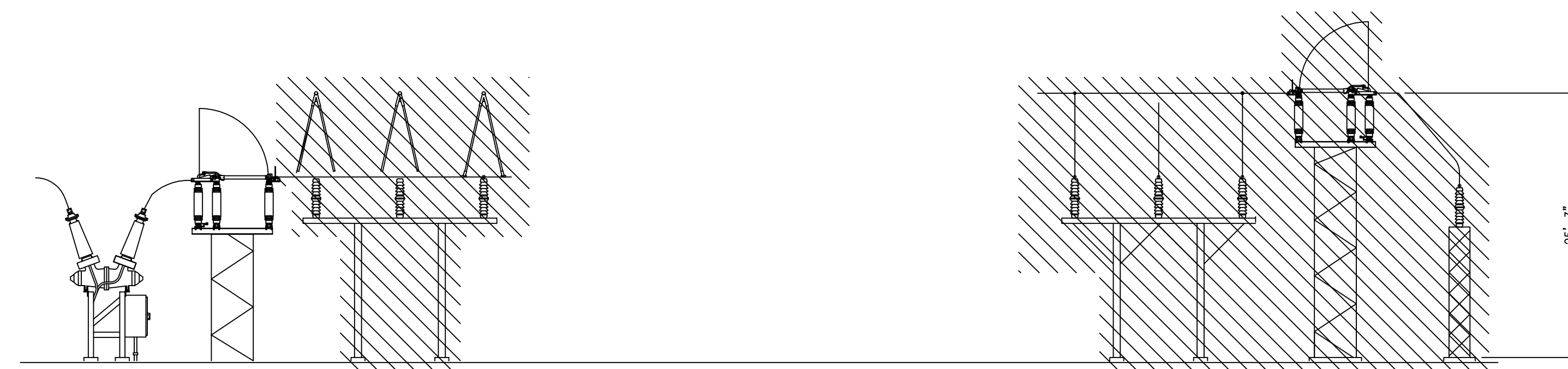
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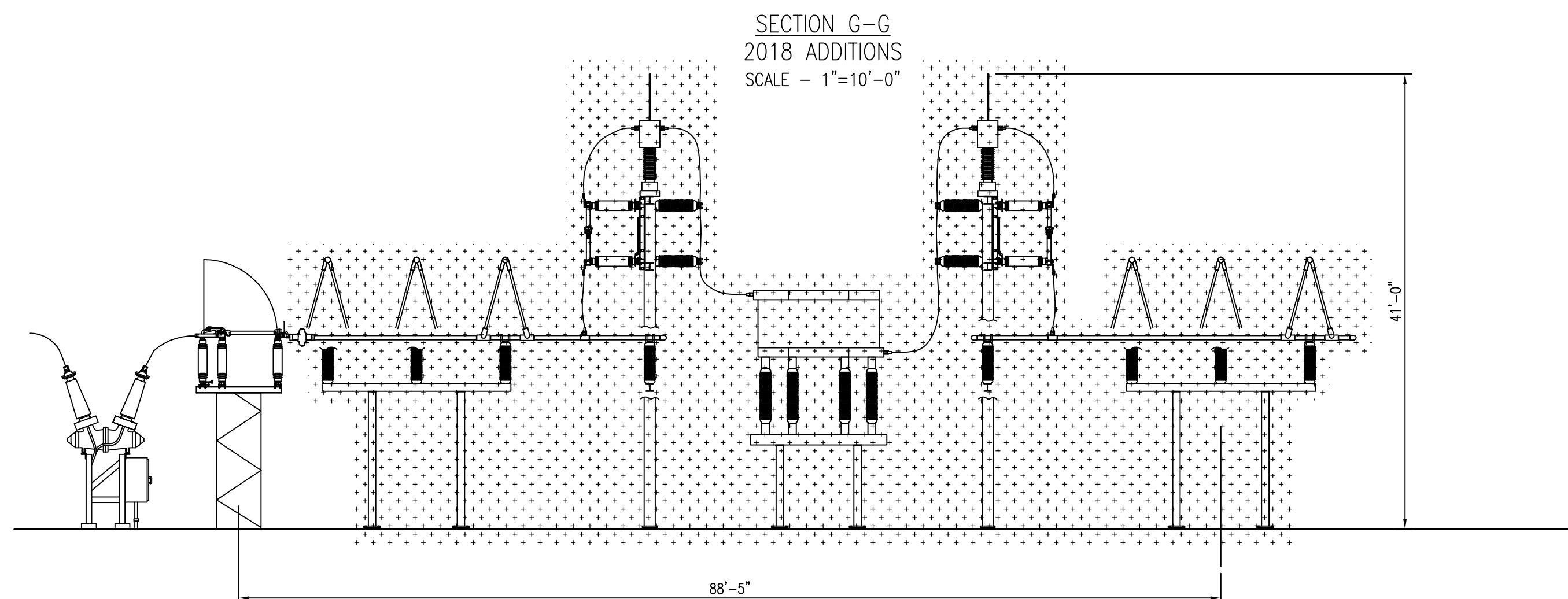
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2018 ADDITIONS
SCALE - 1"=10'-0"



SECTION G-G
2018 ADDITIONS
SCALE - 1"=10'-0"



SECTION H-H
2018 REMOVALS
SCALE - 1"=10'-0"



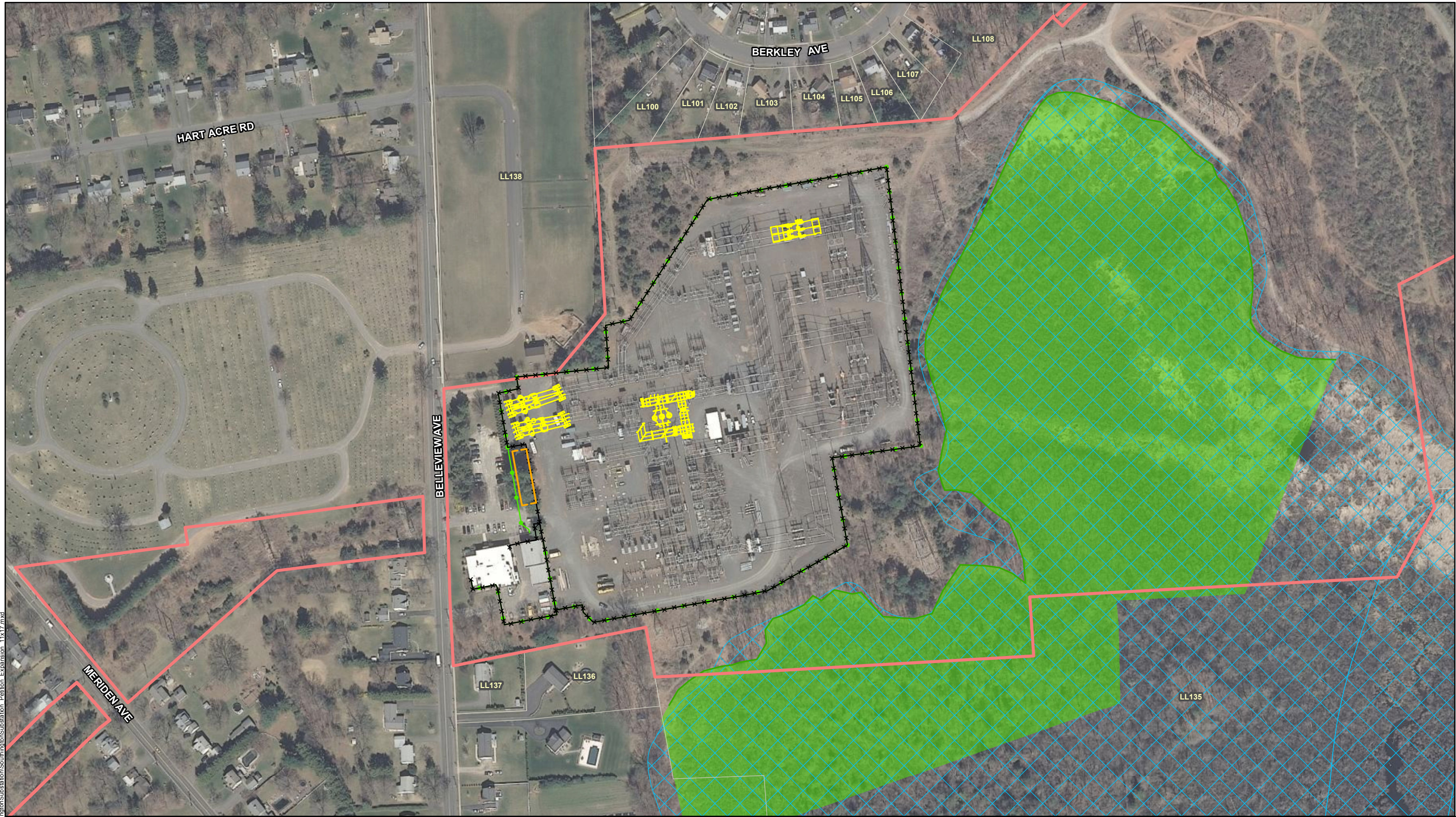
SECTION H-H
2018 ADDITIONS
SCALE - 1"=10'-0"

2018 PROPOSED REMOVALS

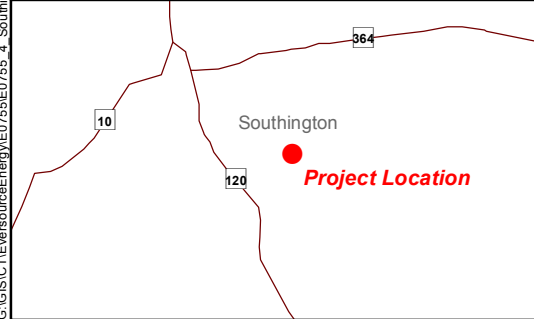
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		GENERAL ARRANGEMENT - SECTIONS F-J			
		CONNECTICUT SITING COUNCIL			
		SOUTHINGTON, CT			
BY	KPK	CHKD	PLW	APP	PSM
DATE	4/90	DATE	4/90	DATE	4/90
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R.E. PROJ. NUMBER			DWG. NO.		23101-92001

ATTACHMENT B



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Legend

- Existing Fence
- Proposed Fence
- Proposed Substation Modifications
- Proposed Control Enclosure
- Delineated Wetland Boundary
- Delineated Wetland
- 100 Year Flood Zone (FEMA)
- Approximate CL&P dba
- Eversource Energy Owned Property
- Approximate Parcel Boundary*

Map Notes:
Base Map: CT ECO Map Service,
Ortho Imagery (2012).
*Data acquired from CTDEEP GIS

Feet

200 100 0 200

1 Inch = 200 Feet

Southington Substation
Petition Map
Proposed Substation Expansion

Southington, Connecticut

EVERSOURCE
ENERGY

Tighe&Bond
Engineers | Environmental Specialists

Line List Number	Owner Name (Now or Formerly)
100	MERRILL CYNTHIA M
101	STEVENS MARY M
102	PARADIS ALAN
103	OVERTON ROCHELLE
104	FORMAT LLC
105	STONE DAVID R & KAREN A
106	ZYSK CHRISTINE A & ANDREW S
107	BRAYALL RICHARD L & KIM
108	SOUTHINGTON TOWN OF
136	CASEY JULIE M & MICHAEL P
137	JANAZZO FANTASIA R
138	ST THOMAS C C CORP

ATTACHMENT C

December 21, 2016

Dear Neighbor,

As part of its everyday effort to deliver reliable energy and superior customer service to its customers, Eversource Energy ("Eversource") is submitting a petition to the Connecticut Siting Council ("CSC") for a proposed transmission upgrade project in your area.

The upgrade, called the Southington Substation Project ("Project"), includes expanding the existing substation fence line approximately 50 feet to the west (towards Belleview Avenue), installing new equipment and modifying existing equipment within the new fence line of the Substation.

Pending CSC approval of this proposed work, construction is expected to begin in the first quarter of 2017 and restoration of any affected areas is anticipated by the end of 2018.

For more information please call 1.800.793.2202 or send an email to TransmissionInfo@eversource.com.

If you would like to send comments regarding Eversource's petition to the CSC, please send them via email to siting.council@ct.gov or a letter to the following address:

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

Thank you.

Sincerely,

Ken Roberts

Ken Roberts
Eversource Project Manager

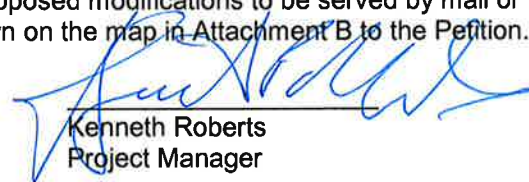
AFFIDAVIT OF SERVICE OF NOTICE

STATE OF CONNECTICUT)
) ss. Berlin
COUNTY OF HARTFORD)

Sec. 16-50j-40 of the Regulations of Connecticut State Agencies ("RCSA") provides that proof of notice to the affected municipalities, property owners and abutters shall be submitted with a petition for declaratory ruling to the Connecticut Siting Council ("Council"). In accordance with that RCSA section, I hereby certify that I caused notice of proposed modifications of The Connecticut Light and Power Company doing business as Eversource Energy to be served by mail or courier upon the following municipal official:

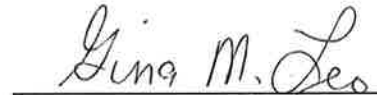
Garry Brumback, Town Manager
Southington Town Hall
75 Main Street
Southington, CT 06489

I also certify that I provided notice of the proposed modifications to be served by mail or courier upon 12 owners of abutting properties shown on the map in Attachment B to the Petition.


Kenneth Roberts
Project Manager

On this the 21st day of December, 2016, before me, the undersigned representative, personally appeared, Kenneth Roberts, known to me (or satisfactorily proven) to be the person whose name is subscribed to the foregoing instrument and acknowledged that he executed the same for the purposes therein contained.

In witness whereof, I hereunto set my hand and official seal.



Notary Public
My Commission expires:

GINA M. LEO
NOTARY PUBLIC
MY COMMISSION EXPIRES FEB. 28, 2021