

September 30, 2016

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

RE: Notice of Exempt Modification Pursuant to RCSA § 16-50j-57(a) to Existing Energy Facility Site at 16 Walnut Hill Road in the Town of Bethel, Connecticut (“Notice of Exempt Modification”)

Dear Chairman Stein:

The Connecticut Light and Power Company doing business as Eversource Energy (“Eversource”) hereby gives notice to the Connecticut Siting Council of its intent to undertake modifications to Eversource’s Plumtree Substation (“Project”) described herein.

**Proposed Modifications**

The Project would take place at Plumtree Substation (“Substation”), which is located on Eversource’s property at 16 Walnut Hill Road in the Town of Bethel. The Substation is a 345- to 115- to 13.8-kV facility with two 345-kV transmission lines, two 345- to 115-kV autotransformers, five 115-kV transmission lines, one 115- to 13.8-kV transformer and three 13.8-kV circuits.

Eversource proposes to reconfigure two existing 115-kV capacitor banks (37.8 and 50.4 Mvar) at Plumtree Substation by doing the following modifications:

- a) Routing the bus work from the 37.8-Mvar capacitor bank to the A bus utilizing the existing current limiting reactors and unused bay position.
- b) Removing two existing circuit switcher/ disconnect combination units.
- c) Installing a new 115-kV 3000-Amp synchronous breaker and manually operated disconnect switch.
- d) Routing the bus work from the 50.4-Mvar capacitor bank to the B bus.
- e) Adding three current limiting reactors.

- f) Replacing the existing 30G-23T-2 capacitor bank breaker with a new 115-kV 3000-Amp synchronous breaker.
- g) Relocating the existing 30G-23T-8 disconnect switch to isolate the 50.4-Mvar capacitor bank from the B bus.

The proposed modifications are shown on Drawing No. 10904-92001 – Plumtree Substation – Yard Arrangement – Plan & Sections.

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:

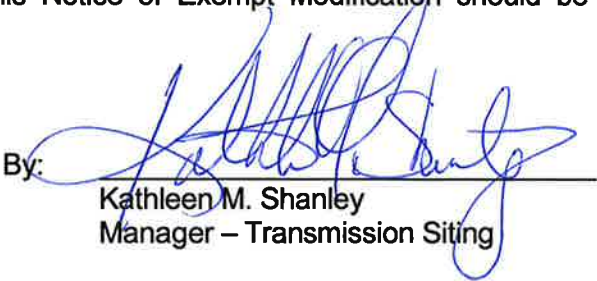
- All modifications would be made within the Substation's existing fenced area.
- All new equipment would be shorter than the tallest existing equipment within the Substation.
- The Substation is in the 100-year flood zone; however, no wetlands or waterways would be affected.
- Eversource's review of the Department of Energy and Environmental Protection's Natural Diversity Data Base ("NDDB") identified two state-listed species of special concern near the Substation. The work area within the fenced substation does not provide a suitable habitat for any state listed species.
- There would be no television or radio interference caused by the modifications.
- Sound-pressure levels at all points along the property line 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.

Eversource proposes to commence construction in November 2016. Work is scheduled to be completed by March 2017.

Enclosed are 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 Matt Knickerbocker.

Communications regarding this Notice of Exempt Modification should be directed to Kathleen Shanley at (860) 728-4527.

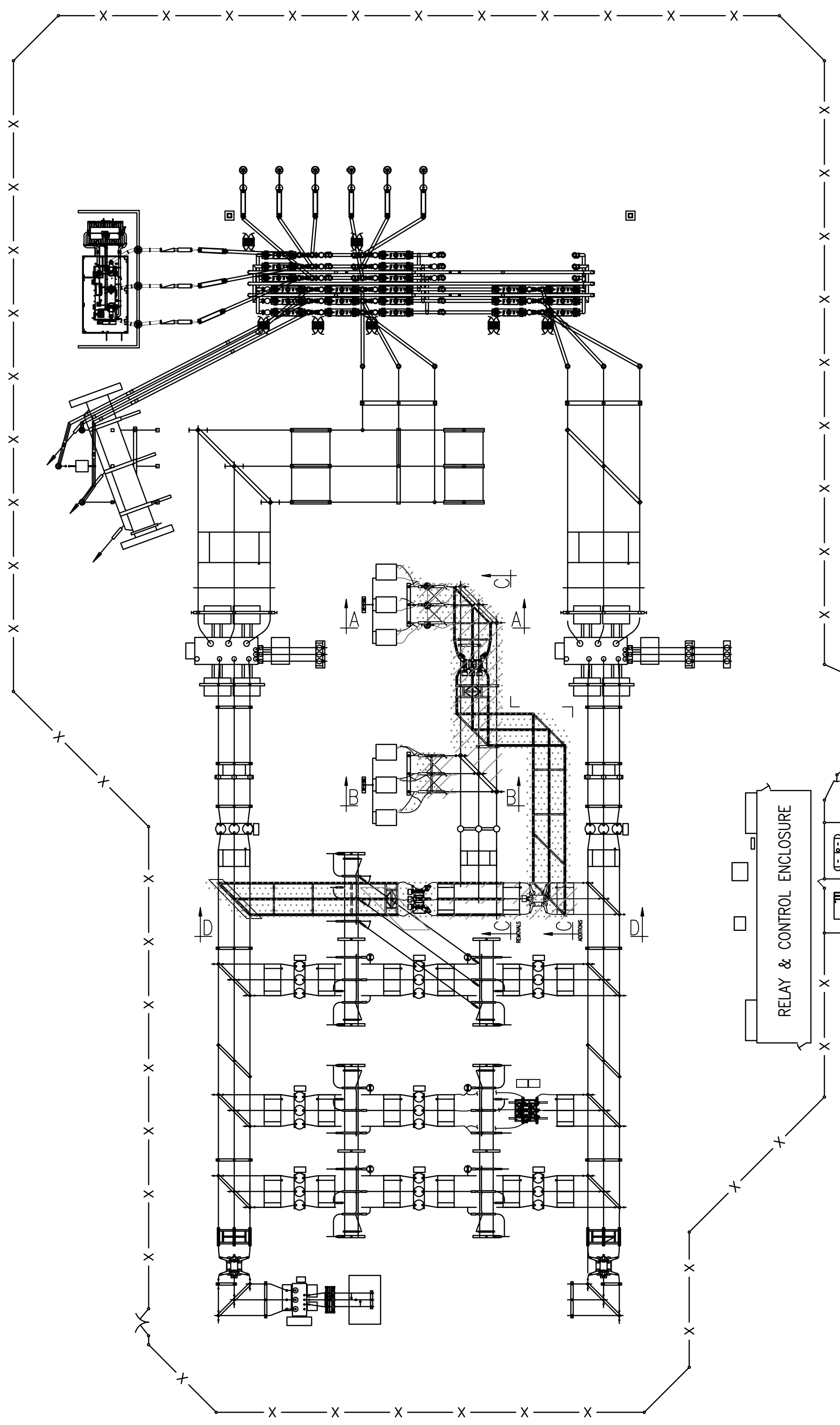
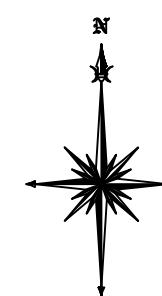
By:   
Kathleen M. Shanley  
Manager – Transmission Siting

cc: First Selectman Matt Knickerbocker, Town of Bethel

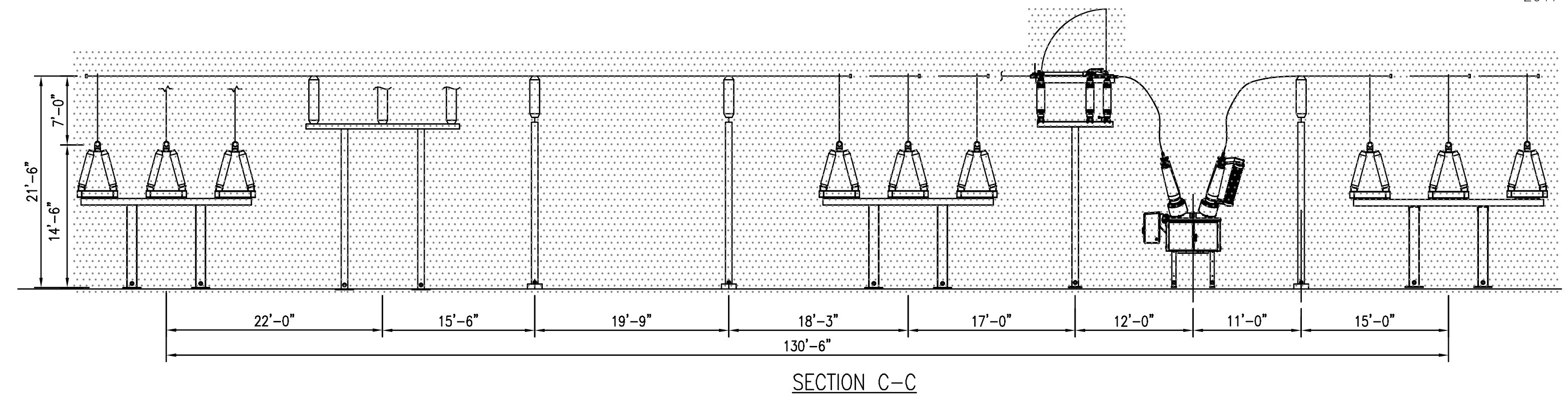
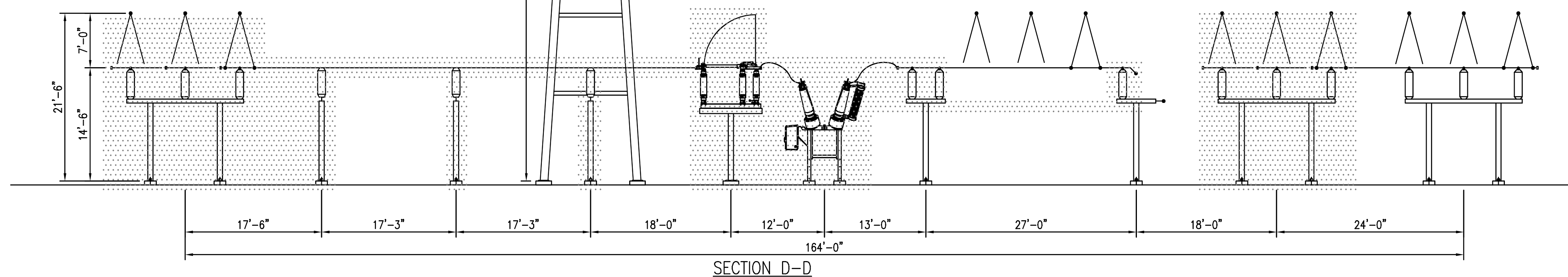
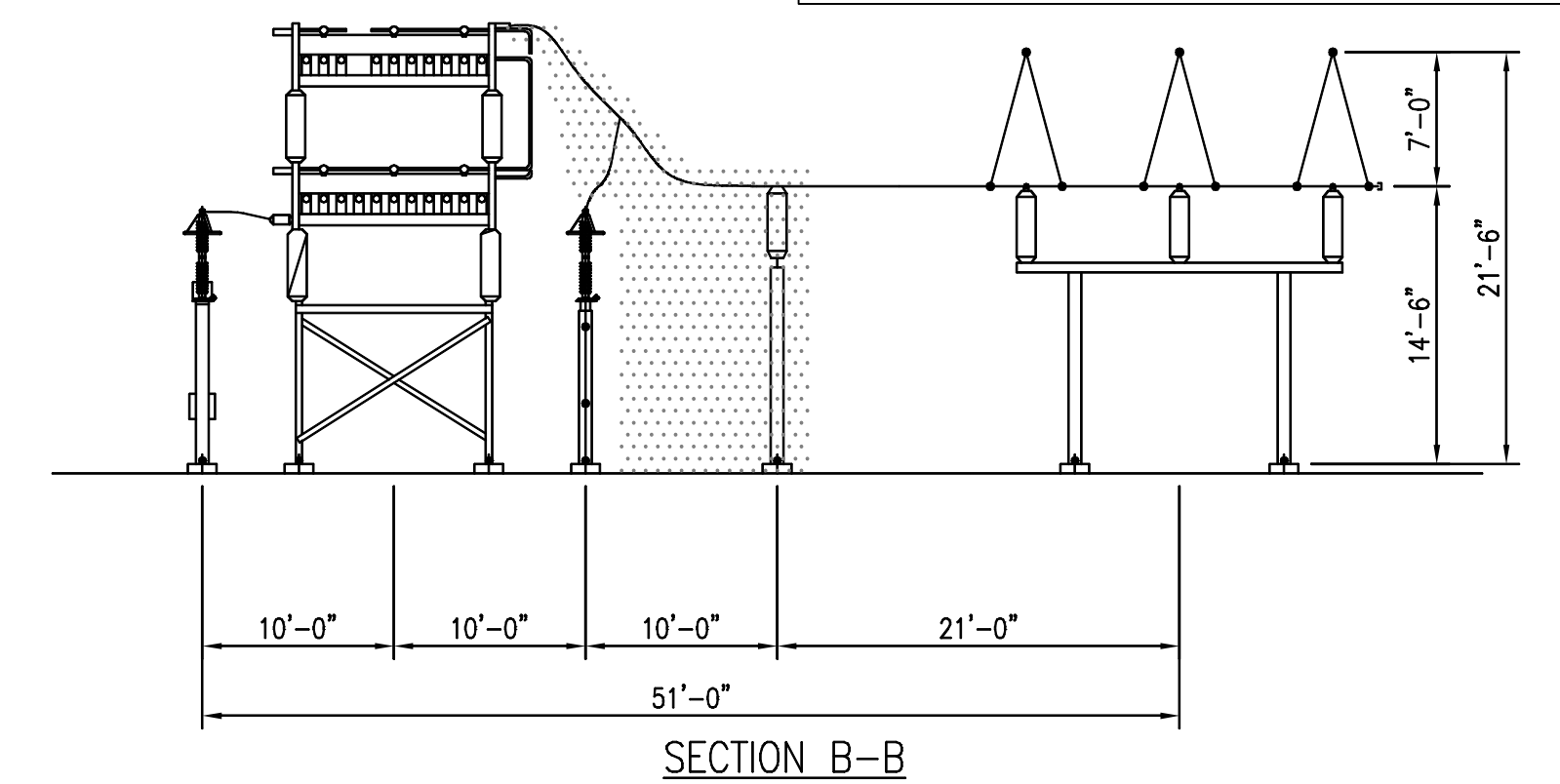
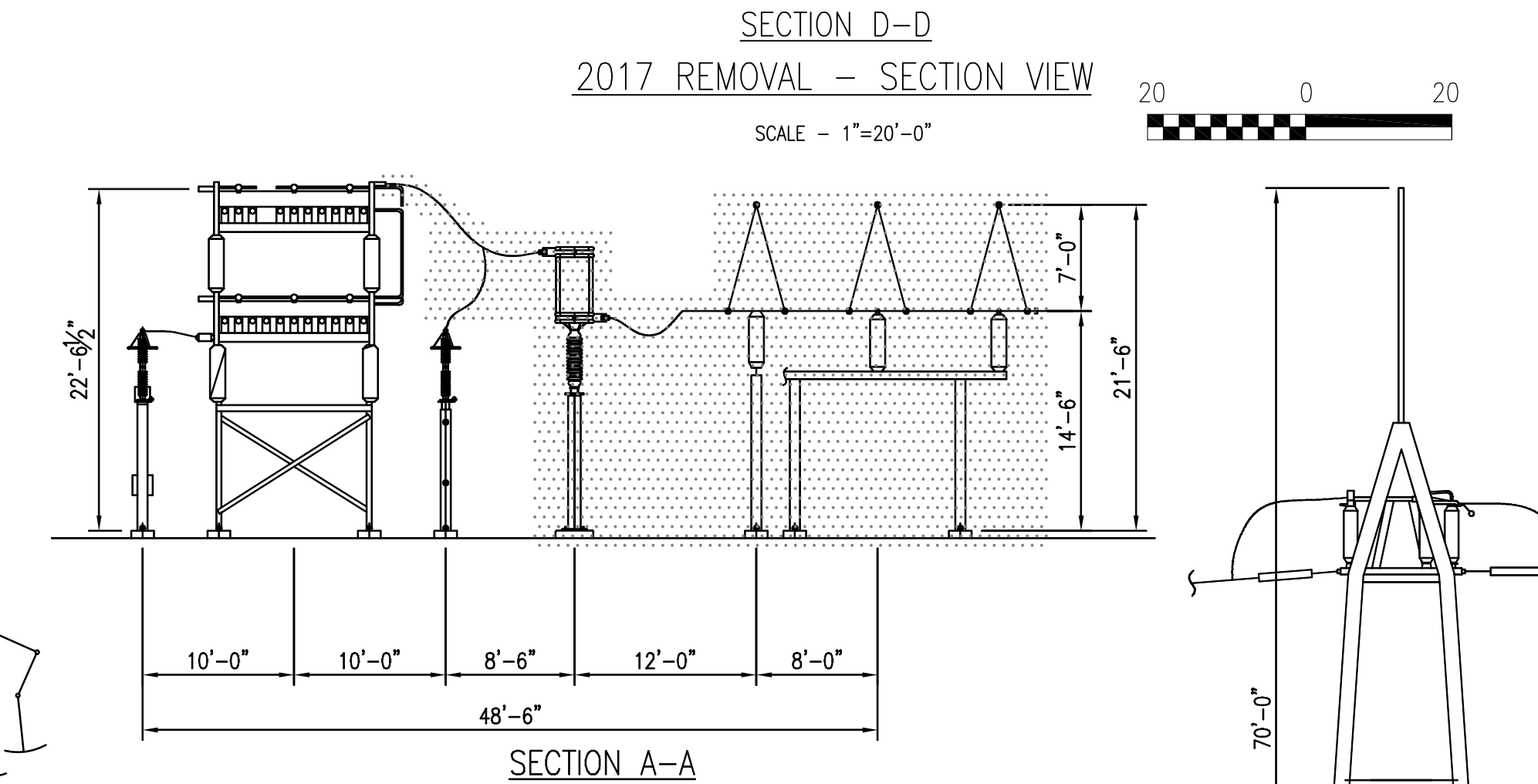
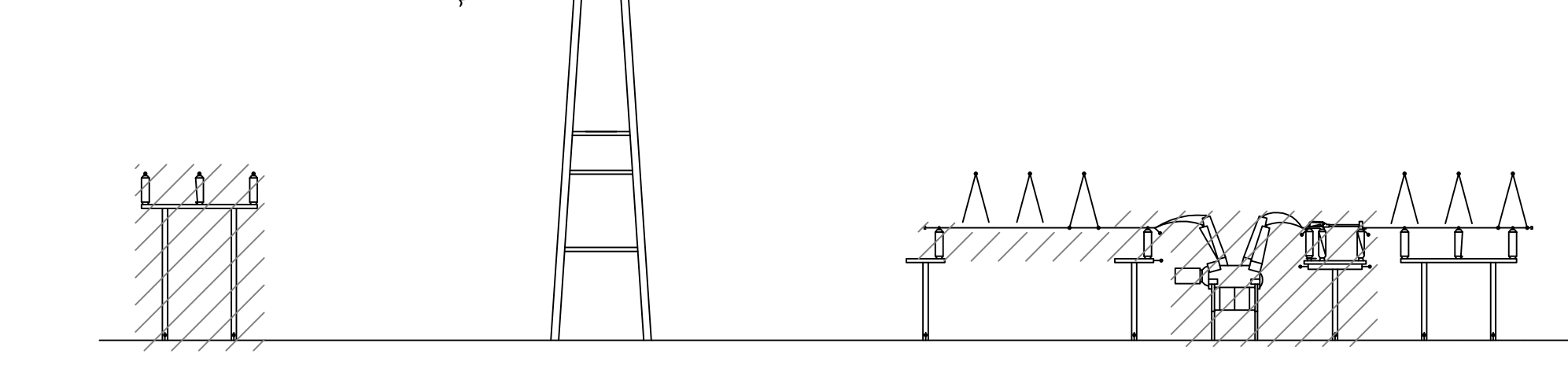
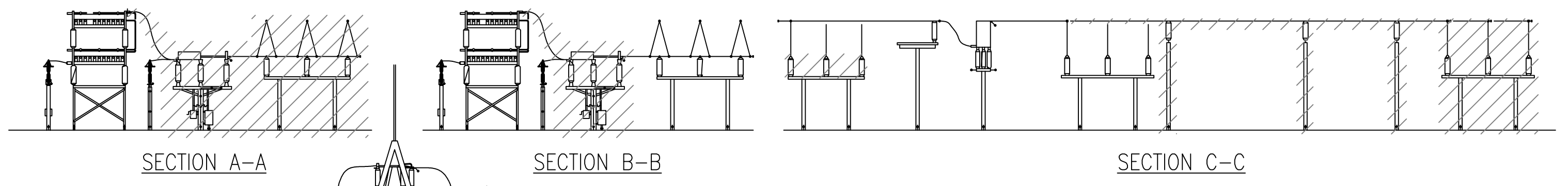
Attachment:

Attachment A: Drawing No. 10904-92001 – Plumtree Substation – Yard Arrangement – Plan & Sections

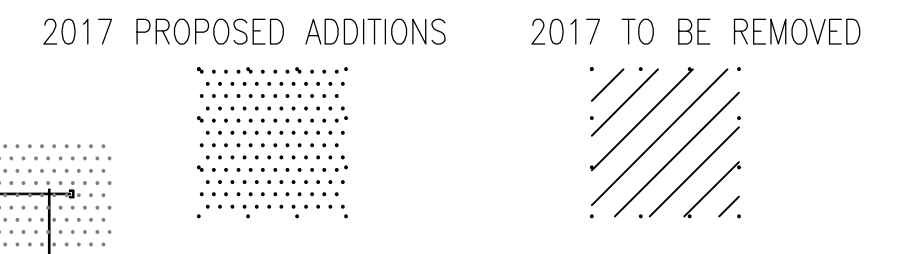
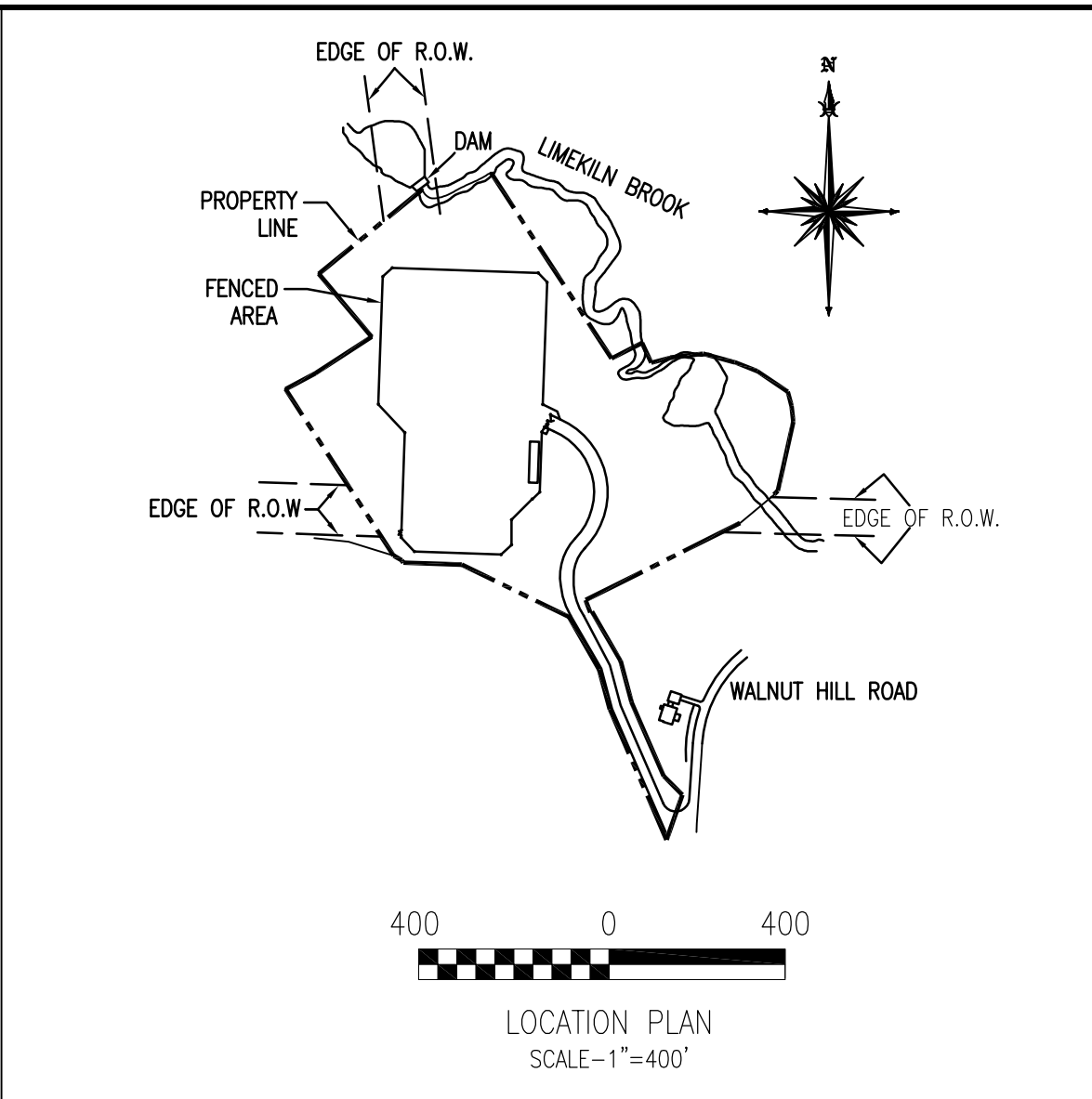
6/9/2016 3:33 PM - dmmymers - C:\pwwork\04520232\10904-92001.DWG - REV AM CSC 2017 Additions



2017 PLAN  
REMOVALS AND ADDITIONS  
SCALE - 1"=40'-0"  
40 0 40



2017 ADDITION - SECTION VIEW  
SCALE - 1"=10'-0"  
10 0 10



REVISIONS DURING CONSTRUCTION						
NO.	DATE	DESCRIPTION	BY	CHKD	APP	LEG

<b>EVERSOURCE ENERGY</b>						
TITLE: PLUMTREE SUBSTATION YARD ARRANGEMENT PLAN & SECTIONS CONNECTICUT SITING COUNCIL BETHEL, CT						
BY: KPKR	CHKD: REM	APP: LEG	APP: ALG	DATE: 6/02	DATE: 6/02	DATE: 6/02
H-SCALE: AS NOTED	SIZE: D	FIELD BOOK & PAGES				
V-SCALE: AS NOTED	V.S.	R.E. DWG				
REF. PROJ. NUMBER	DWG NO. 10904-92001					