



November 16, 2018

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

Re: PETITION NO. 1353 - The United Illuminating Company petition for a declaratory ruling pursuant to Connecticut General Statutes §4-176 and §16-50k for the proposed modifications to the existing Seaview Tap Substation located at 1677 Seaview Avenue, Bridgeport, Connecticut.

Dear Chairman Stein:

Enclosed please find the original and fifteen (15) copies of The United Illuminating Company's responses to the Siting Council's First Set of Interrogatories dated October 26, 2018 in connection with the above-referenced petition.

Should you have any questions, please contact me at 203-499-2586.

Very truly yours,

Outreach Specialist
The United Illuminating Company

Enclosures

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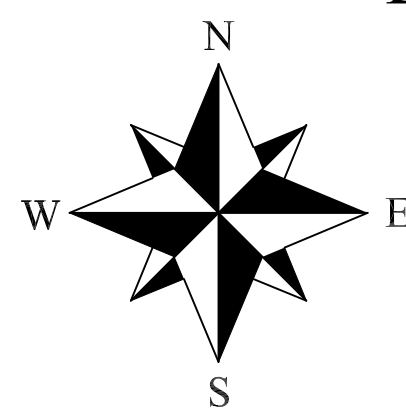
Interrogatory CSC-I-1

The United Illuminating Company
Petition No. 1353

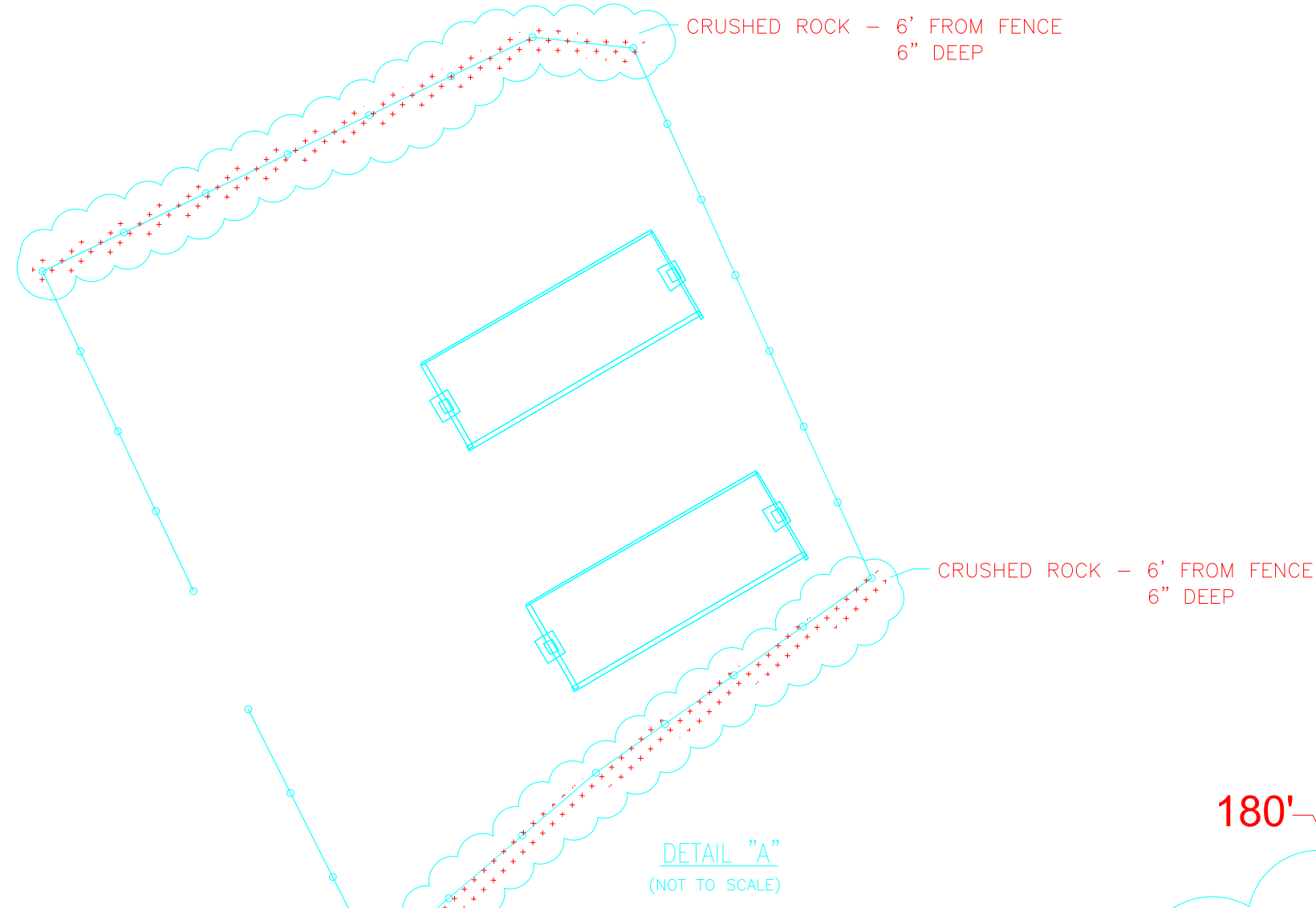
Witness: MeeNa Cullen-Corson
Page 1 of 1

Q-CSC-I-1: Reference Drawing 24203-400 of the Petition dated October 19, 2018. The upper left portion of such drawing shows 180" (i.e. 180 inches) of added ground conductor on the western limits of the project. Was 180' (i.e. 180 feet) intended? Explain.

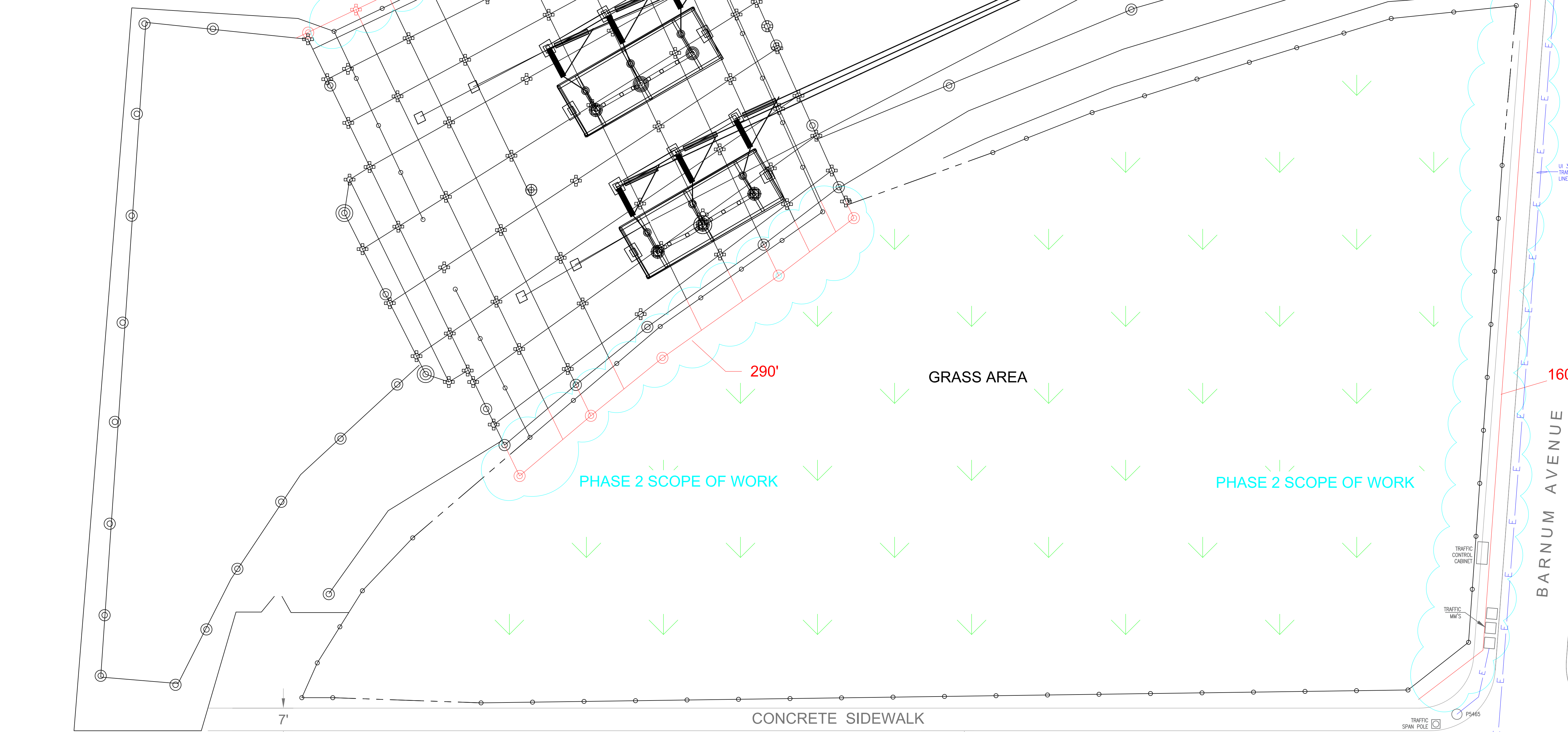
A-CSC-I-1: This was a typo, and is supposed to read 180', not 180". See revised drawing 24203-400.



PHASE 2 SCOPE OF WORK



PHASE 2 SCOPE OF WORK

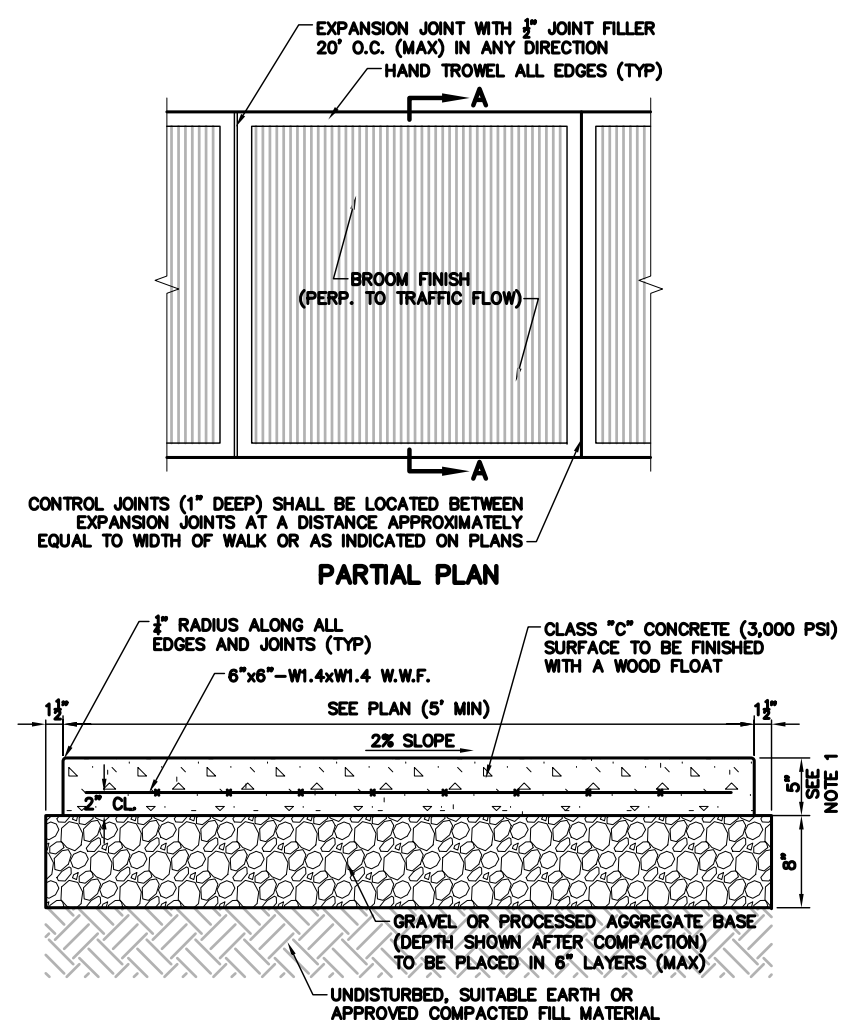
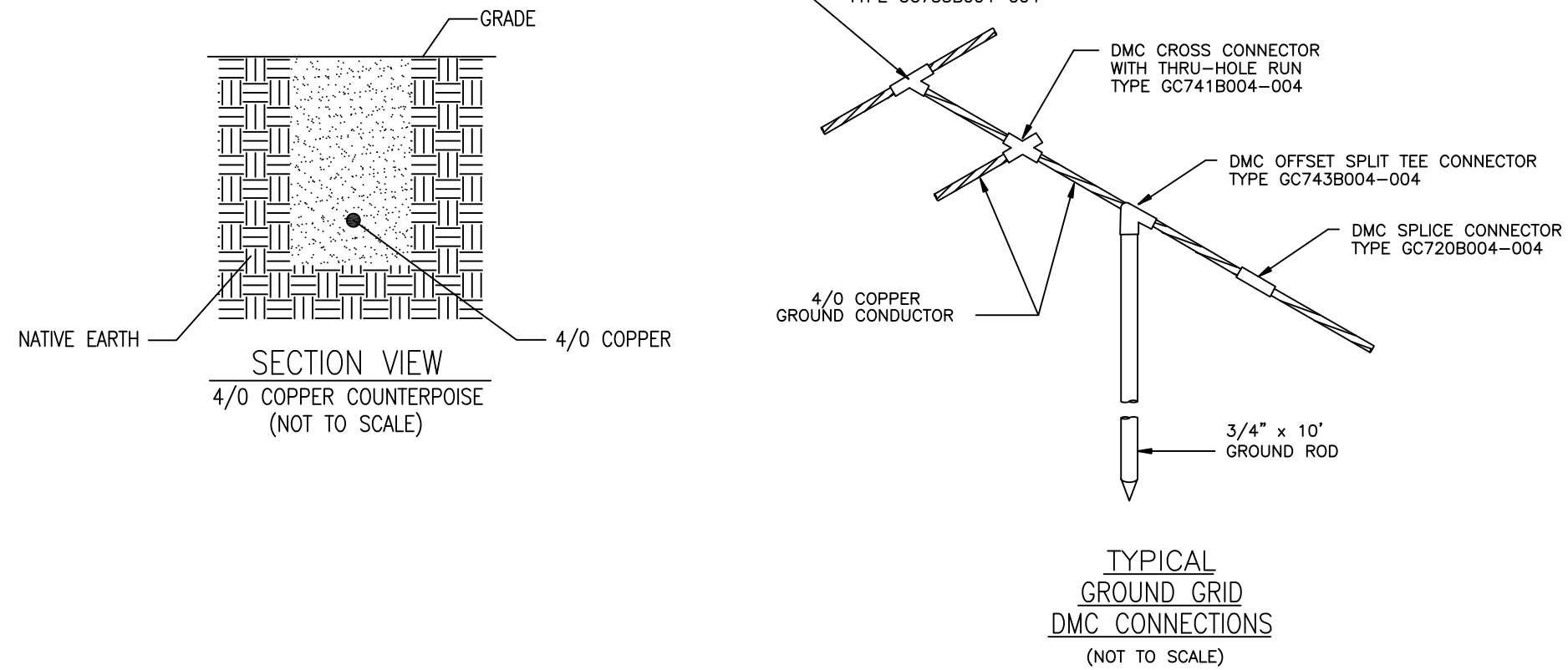


GRASS AREA

PHASE 2 SCOPE OF WORK

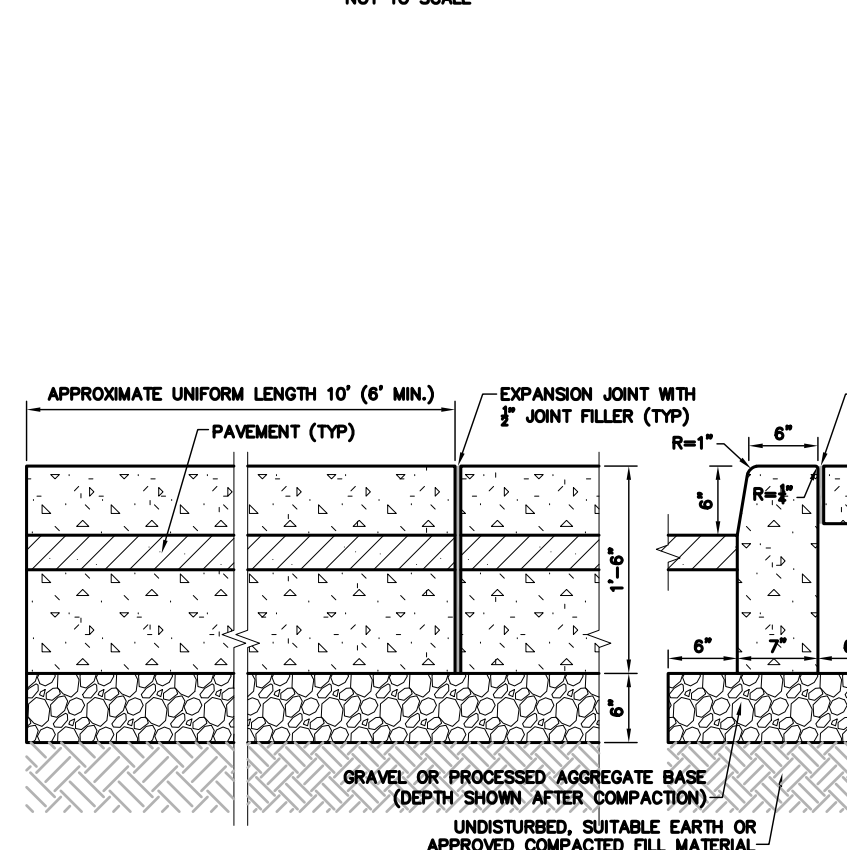
GENERAL NOTES:

1. INSTALL 4/0 COPPER GROUND WIRE UNDER CONCRETE SIDEWALK AS SHOWN
2. RESTORE DISTURBED CONCRETE SIDEWALK & CURB TO CITY OF BRIDGEPORT SPECIFICATIONS AS SHOWN IN DETAIL



- NOTES:
1. CONCRETE SIDEWALK (PAV) SHALL BE 8\"/>
 2. BASE SHALL BE KEPT THOROUGHLY WET DURING COMPACTION AND SHALL BE DAMP WHEN CONCRETE IS POURED (NO POOLS ALLOWED).
 3. ADDITIONAL EXPANSION JOINTS TO BE PROVIDED WHERE THE SIDEWALK JOINS ANY ROAD STRUCTURES INCLUDING, BUT NOT LIMITED TO, CURBS, BALUNES, WALLS, APPROACHES, PAVES, OTHER SIDEWALKS, ETC.
 4. EXPANSION JOINT FILLER SHALL BE PERFORMED BITUMINOUS CELLULAR (FIBER) TYPE PER ASTM M 213 REQUIREMENTS.
 5. CONTRACTOR SHALL REMOVE UNSTABLE MATERIAL AND REPLACE WITH FILL MATERIAL APPROVED BY ENGINEER AT NO ADDITIONAL COST TO THE OWNER.

CONCRETE SIDEWALK



- NOTES:
1. CONCRETE FOR CAST-IN-PLACE CURB (CURBS) SHALL BE CLASS 70\"/>
 2. CONCRETE FOR PRECAST CURBING SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI WITH 5-TIE EXTENDED AS REQUIRED.
 3. BASE SHALL BE KEPT THOROUGHLY WET DURING COMPACTION AND SHALL BE DAMP WHEN CONCRETE IS POURED (NO POOLS ALLOWED).
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CONCRETE CURBING

PRECISION ENGINEERED PRODUCTS

- Isolation Section
- Chain Link Fence
- Added Ground Conductors (Copper 4/0)
- DMC Connectors
- 10' Ground Rods
- 20' Ground Rods

- Added Ground Conductors (Copper 4/0) = 630'
- DMC Connectors x 21
- 10' Ground Rods x 6
- 20' Ground Rods x 4
- Crushed Rock, 6\"/>

PHASE 2 SCOPE OF WORK

PE STAMP		AVANGRID ENGINEERING CONFIDENTIAL, PROPRIETARY and TRADE SECRET INFORMATION Property of AVANGRID		UI AVANGRID		AREA PLAN SEA VIEW TAP	
SEA VIEW		BRIDGEPORT		SCALE: N.T.S.		FILE: Sea View1.dwg	
S/A	GROUND GRID UPGRADE - PHASE 2 P.C.	11/02/2018	V.P.	MCC	MCC	BY: V.P.	REV
S/A	GROUND GRID UPGRADE	10/22/2018	V.P.	MCC	MCC	BY: V.P.	REV
REV	DESCRIPTION	DATE	BY	CK	APP	DATE	REV
						24203-400	0

Interrogatory CSC-I-2

The United Illuminating Company
Petition No. 1353

Witness: MeeNa Cullen-Corson
Page 1 of 1

Q-CSC-I-2: Would the western portion of the grounding project extend onto the 812 Barnum Avenue property owned by the City of Bridgeport? Or would the western portion of the ground project remain on The United Illuminating Company (UI) property? Would the eastern portion of the grounding project (identified with the 290-foot dimension) be located on GE property? Would all proposed fence work be located on GE property?

A-CSC-I-2: The western portion of the work would extend on to City of Bridgeport property. Due to recent rain events, UI is also looking to install some concrete blocks to retain the soils in this area. UI is working with the City of Bridgeport to install both the grounding work, and concrete blocks. The fence work and all eastern portions of the grounding work will be on GE property. UI has received an access agreement from GE to perform this work.

Interrogatory CSC-I-3

The United Illuminating Company
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Witness: MeeNa Cullen-Corson
Page 1 of 1

Q-CSC-I-3: Reference Figure 4 – Location of Isolation Fence. How long would the proposed replacement fence section be on the northern limits of the project? How long would the proposed replacement fence section be on the eastern limits of the project? How tall would such replacement fencing be? Would it be the same or different height as the fence that it would replace? Would such replacement fence have barbed or razor wire on top?

A-CSC-I-3: All fence work will match the height and construction of the fence that exists today (i.e. 6' height, with barbed wire). The isolation sections on both the north and eastern parts of the project will be 30' long, and approximately 125 linear feet of new fence is required on the eastern portion of the project due to deterioration of the existing fence.

Interrogatory CSC-I-4

The United Illuminating Company
Petition No. 1353

Witness: MeeNa Cullen-Corson
Page 1 of 1

Q-CSC-I-4: How tall would the two proposed 30-foot long sections of isolation fence be?
Would the proposed isolation fence sections have barbed or razor wire on top?

A-CSC-I-4: The isolation fence section will match the existing height and look of the fence
(6') with barbed wire.

Interrogatory CSC-I-5

The United Illuminating Company
Petition No. 1353

Witness: MeeNa Cullen-Corson
Page 1 of 1

Q-CSC-I-5: Page 7 of the Petition notes that approximately 750 feet of 4/0 copper grounding conductor would be installed outside of Seaview's eastern fence line. Drawing 24203-400 depicts 290 feet of conductor on the east portion, 180 feet of conductor on the west portion, and 160 feet of conductor on the north portion totaling approximately 630 feet. Estimate the total length of the proposed 4/0 conductor for the proposed project.

A-CSC-I-5: Approximately 730' of 4/0 conductor will be buried. This includes the amount of conductor needed to tie the ground conductors that are installed outside of the substation fence back into the existing ground grid inside the fence.

Interrogatory CSC-I-6

The United Illuminating Company
Petition No. 1353

Witness: MeeNa Cullen-Corson
Page 1 of 1

Q-CSC-I-6: Reference Drawing 24203-400. With roughly 160 feet of new conductor to be located outside of the northern fence line, how would UI handle this installation as there is an existing sidewalk along the fence on Barnum Avenue? There is some type of electric meter device (on the sidewalk) near the corner of Seaview Avenue and Barnum Avenue. Would the installation of the new grounding conductor either interfere with or force the relocation of this meter device along Barnum Avenue?

A-CSC-I-6: Yes, UI will require a permit from the City of Bridgeport to complete this work, and has discussed this with the City of Bridgeport Engineer. The installation on the corner of Barnum Ave and Seaview Ave is traffic signal equipment, and the grounding conductor will not affect the use of this equipment.

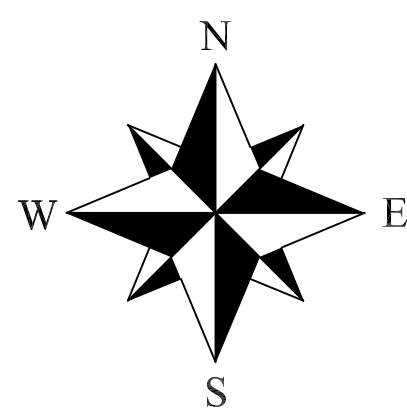
Interrogatory CSC-I-7

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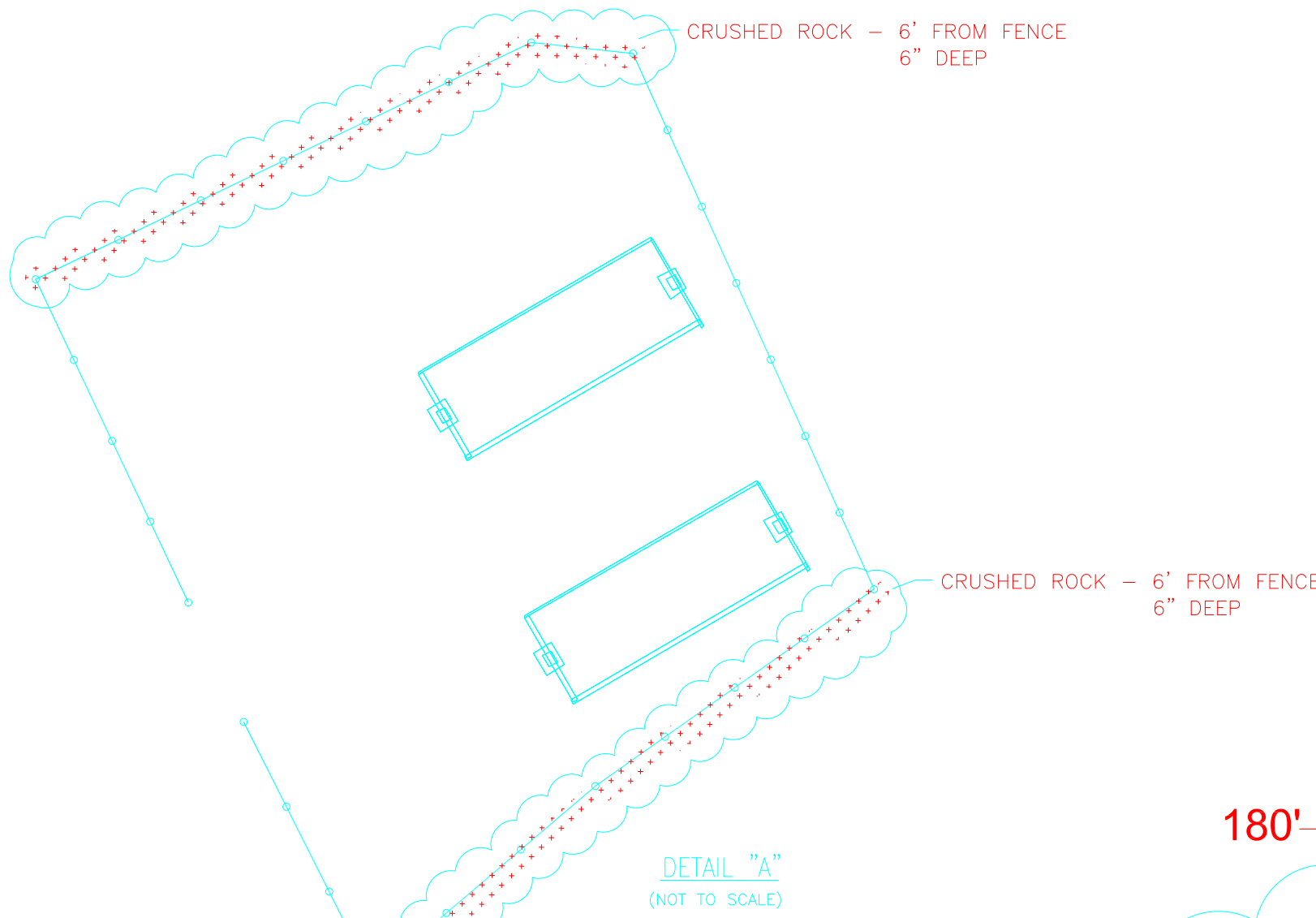
Witness: MeeNa Cullen-Corson
Page 1 of 1

Q-CSC-I-7: Reference Drawing 24203-400 – Phase 2 Scope of Work. Why is crushed rock proposed on the northern and southern limits of the substation, but not necessarily coinciding with the proposed grounding work? Would crushed rock be added to any other areas of the proposed project?

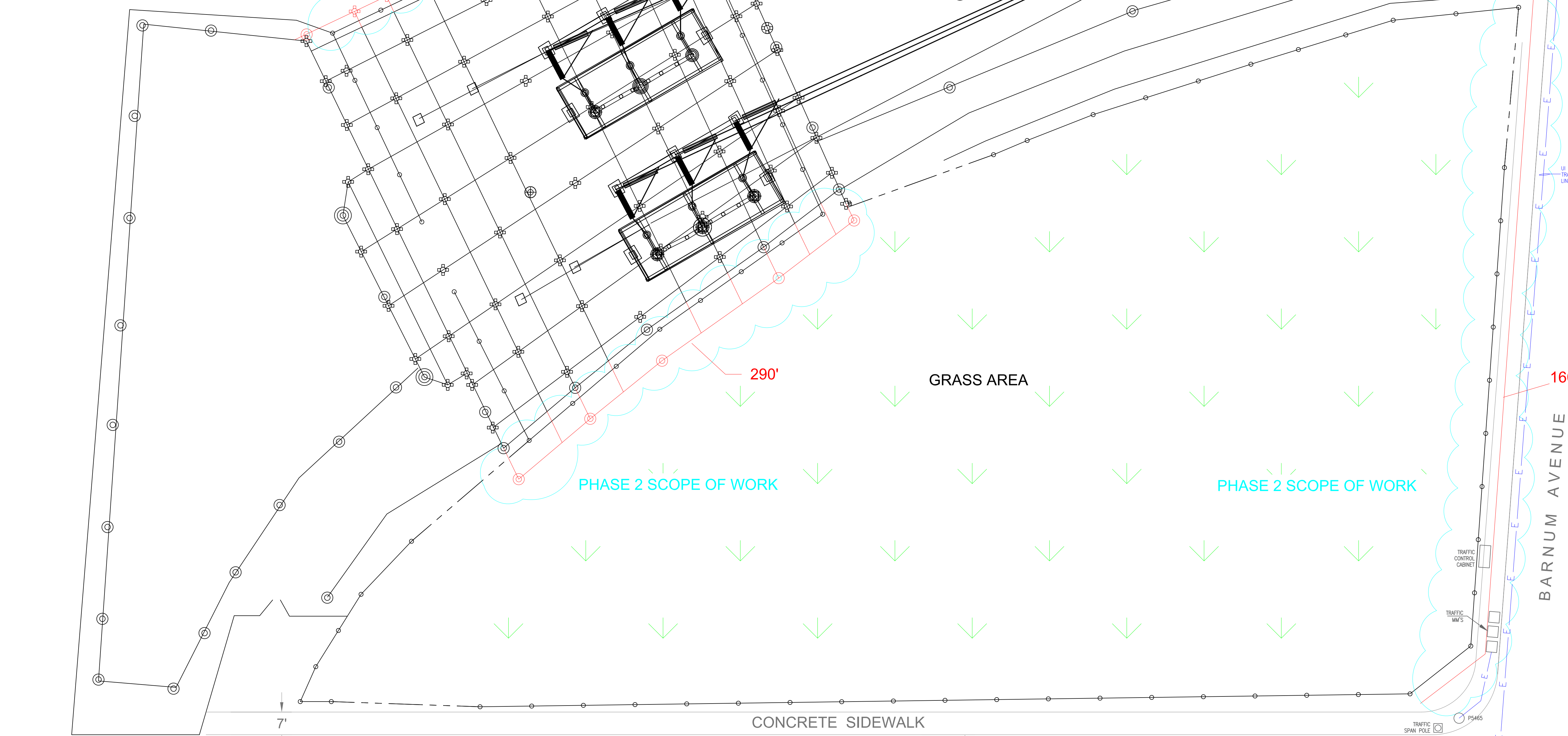
A-CSC-I-7: This was a mistake on the drawings. The crushed rock will be installed over the newly installed grounding conductors on the east and west sides of the substation fence. See revised drawing 24203-400.



PHASE 2 SCOPE OF WORK



PHASE 2 SCOPE OF WORK

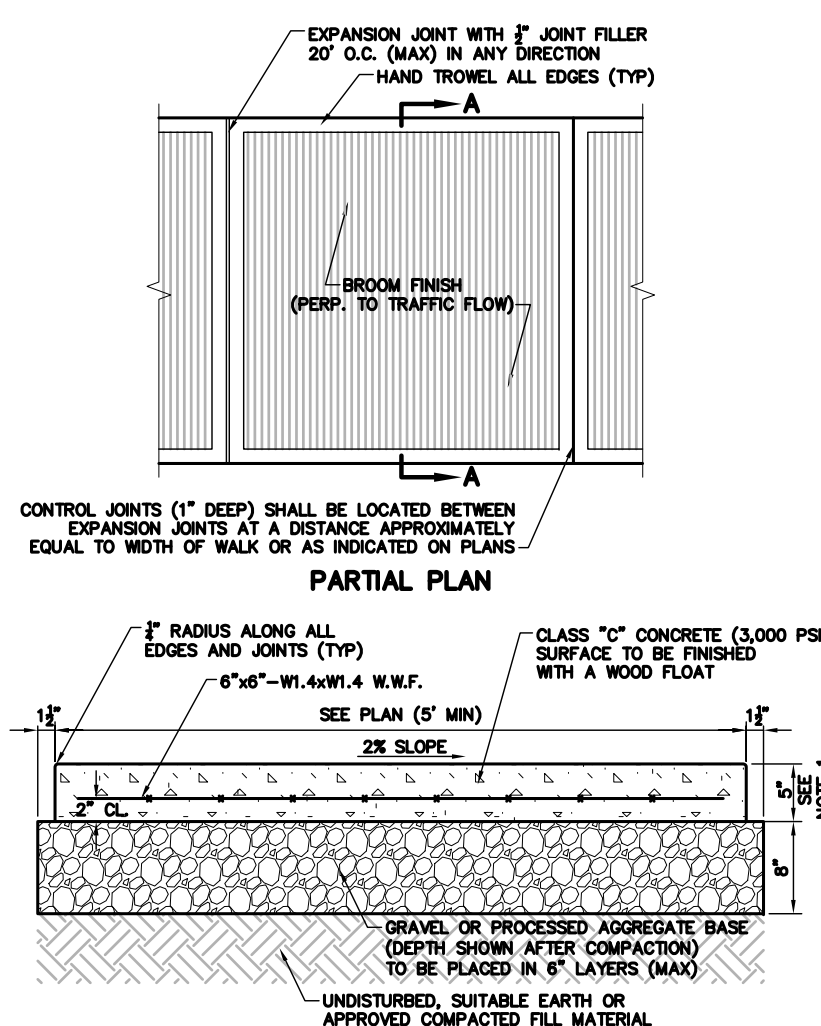
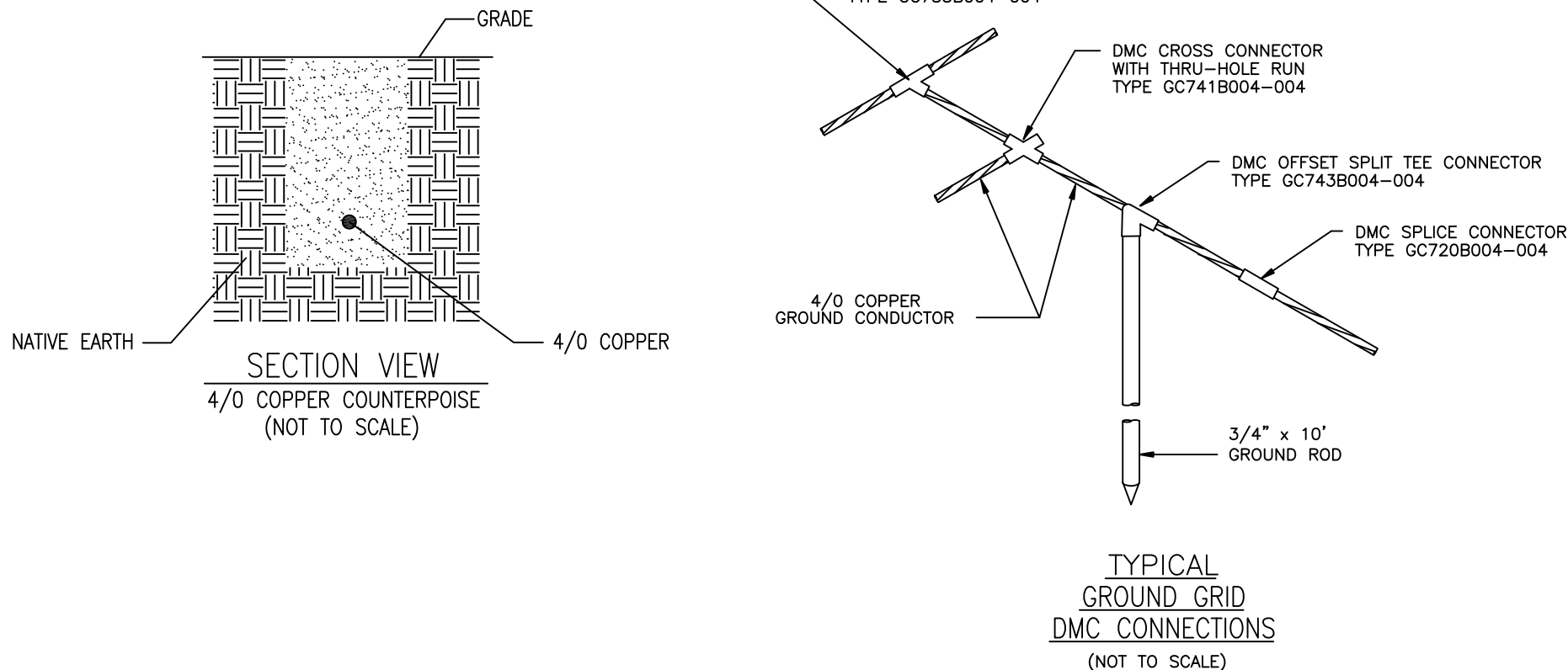


GRASS AREA

PHASE 2 SCOPE OF WORK

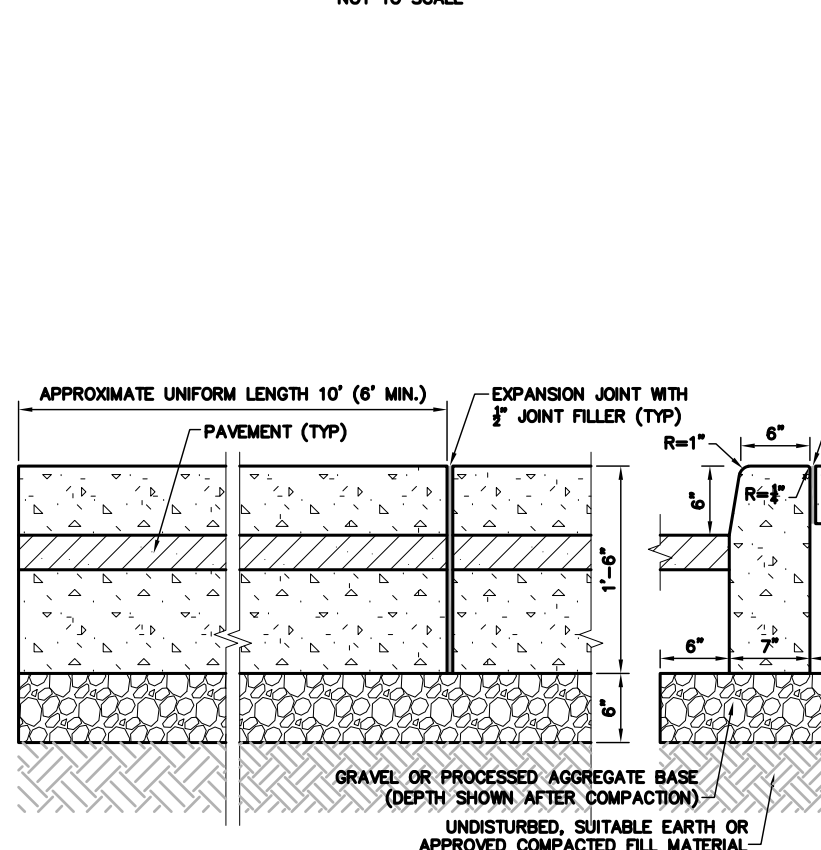
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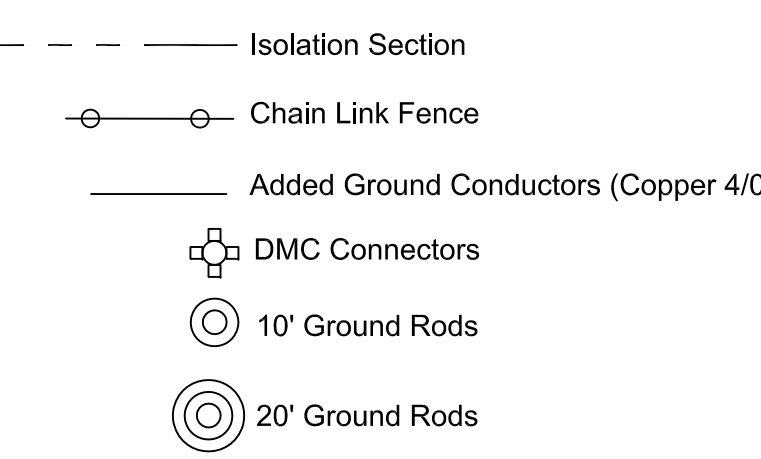
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CONCRETE CURBING

PRECISION ENGINEERED PRODUCTS



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SEA VIEW		BRIDGEPORT		SCALE: N.T.S.		DATE: 10/22/2019	
S/A	GROUND GRID UPGRADE - PHASE 2 P.C.	11/02/19	V.P.	MCC	MCC	BY: V.P.	REV: 0
S/A	GROUND GRID UPGRADE	10/22/2019	V.P.	MCC	MCC	BY: V.P.	REV: 0
REV	DESCRIPTION	DATE	BY	CK	APP	DATE: 10/22/2019	REV: 0

Interrogatory CSC-I-8

The United Illuminating Company
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Witness: Todd Berman
Page 1 of 1

Q-CSC-I-8: Is the existing substation located within the 500-year flood zone? Since no new energized equipment is proposed at this time, would the flood elevation be a concern for the proposed project? Explain.

A-CSC-I-8: Yes the existing substation is within the 500-year (0.2% annual Chance Flood) flood zone, but well outside the floodway.

Flood elevation is not a concern for the limited nature of this grounding project. This project is intended solely to protect UI's substation equipment, the electrical system, and most importantly, the public by eliminating the risk of hazardous step and touch potentials in the vicinity of Seaview that exist during certain electrical ground fault conditions at the substation.

Interrogatory CSC-I-9

The United Illuminating Company
Petition No. 1353

Witness: Todd Berman
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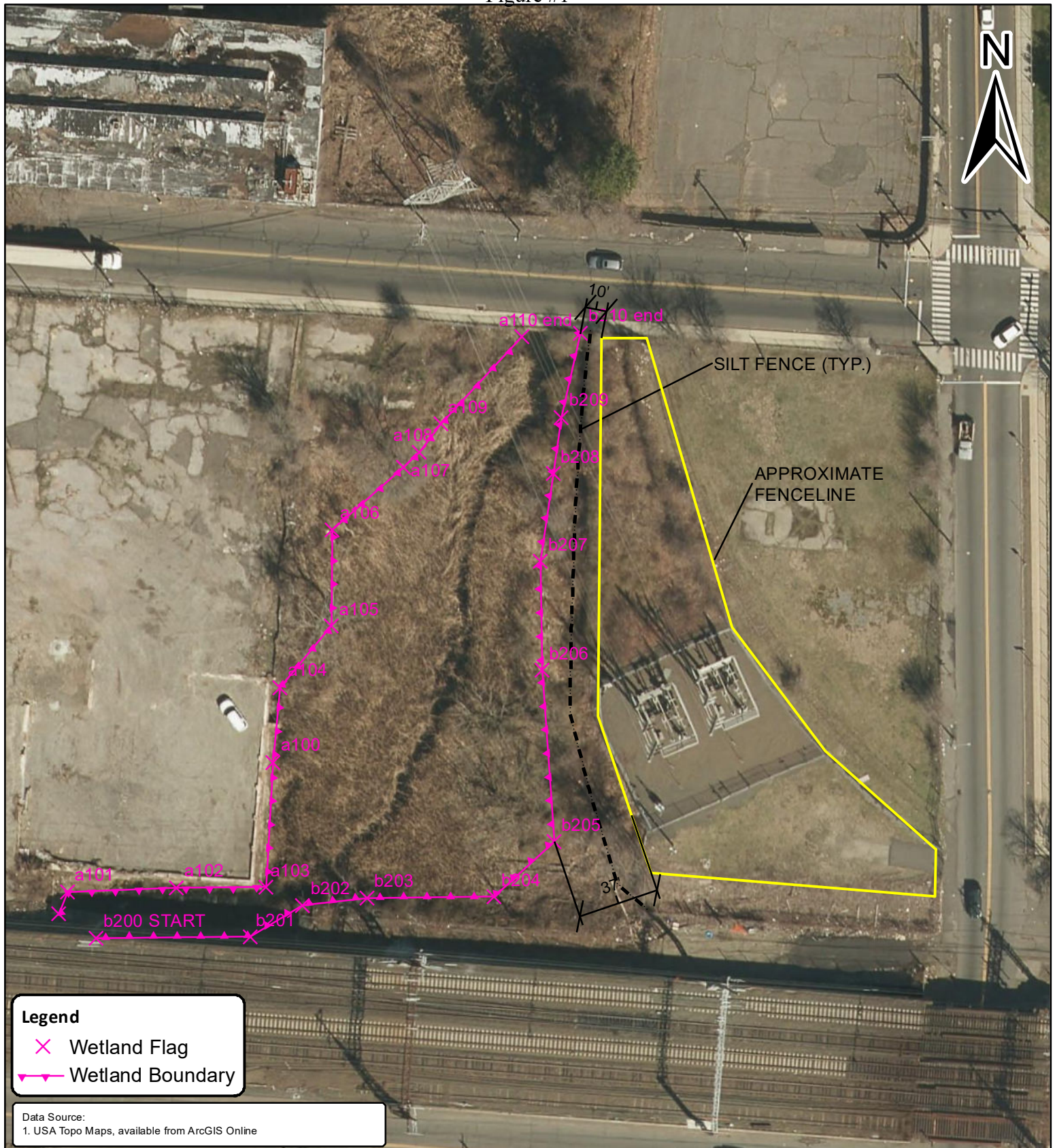
Q-CSC-I-9: Provide the distance and direction from the work area to the nearest wetland/watercourse. Would the proposed erosion and sediment (E&S) controls (noted on page 10 of the Petition) protect adjacent wetlands/watercourses? Provide a drawing depicting the wetland/watercourse locations relative to the proposed project and the locations of the proposed E&S controls.

A-CSC-I-9: See Figure #1 which shows the location of the flagged wetlands, the existing fence line and the proposed E&S controls (silt fence) for the project.

Yes the proposed E&S controls will protect adjacent wetlands and watercourses.

There are no proposed activities inside the wetlands.

Figure #1



Disclaimer: This map is not the product of a Professional Land Survey. It was created by Fuss & O'Neill, Inc. for general reference, informational, planning and guidance use, and is not a legally authoritative source as to location of natural or manmade features. Proper interpretation of this map may require the assistance of appropriate professional services. Fuss & O'Neill, Inc. makes no warrantee, express or implied, related to the spatial accuracy, reliability, completeness, or currentness of this map.

**PROPOSED E&S CONTROLS
SEAVIEW TAP GROUNDING
BAIRD-CONGRESS TRANSMISSION LINE
Bridgeport/Stratford Connecticut**

Project No.: 20131010.B20 11/1/18

Att.

FUSS & O'NEILL