

**Development and Management Plan**  
(Grading, Soil Erosion & Sedimentation Control and Foundations--- Phase 2)  
**For**  
**SONO Substation**  
**Norwalk, Connecticut**

The South Norwalk Electric and Water hereby submits a Development and Management (“D&M”) Plan, of the grading of the site, soil erosion & sedimentation control measures and foundations, for the SONO Substation to the Connecticut Siting Council (“Council”). Subsequent phases of the D&M plan shall be submitted at a later date.

The Development and Management Plan consists of the following:

- I. Introduction
- II. General Project Description
- III. Development and Management Plan Narrative
- IV. Appendix
  - Appendix A: Figure 1: Site Location Map, USGS
  - Appendix B: Site Grading Plan
  - Appendix C: Soil Erosion and Sedimentation Control Plan-SNEW
  - Appendix D: Soil Erosion and Sedimentation Control Plan-CL&P
  - Appendix E: Foundation Plan- CL&P
  - Appendix F: Foundation Plan- SNEW

**Section I**  
**Introduction**

This D&M plan is only for the grading of the site, soil erosion & sedimentation control measures and foundations and covers work to be performed by both CL&P and SNEW for the SONO Substation to comply with a condition in the Council's Decision and Order in Docket No. 431, dated March 21, 2013. A subsequent D&M plan will be submitted to comply with the remaining conditions as outlined in the Council's Decision and Order.

## **Section II**

### **General Project Description**

The Applicant, The Second Taxing District of the City of Norwalk, Fairfield County, Connecticut, South Norwalk Electric and Water (SNEW), is proposing to construct a 115-kilovolt (“kV”) to 13.8-kV bulk supply substation that would be directly connected to an existing CL&P 115 kV transmission Line. The substation is proposed on an approximately 1.07 acre site owned by SNEW. The Site includes two adjoining parcels located adjacent to and west of Dr. Martin Luther King, Jr. Drive in the southwestern portion of Norwalk's Second Taxing District.

This location is zoned for industrial purposes. The site is a triangular shaped and abuts the Metro-North/Amtrak rail corridor and existing CL&P electric transmission easement to the west, Dr. Martin Luther King Junior Drive to the east and a delivery distribution facility to the south (United Parcel Service- UPS). The site does not have any watercourses, known critical habitats or sites identified as having rare or endangered plant or animal species listed by federal and state government agencies, or any underground facilities or utilities.

The proposed Project will involve the construction and operation of the substation, as well as the establishment of a new interconnection to CL&P's adjacent 115 kV transmission line, and the addition of three steel pole structures in the Metro-North corridor.

The overall purpose of the Project is to add capacity in response to the increasing demand for electricity in South Norwalk and its surrounding area and by so doing, improving electric distribution system reliability in the City of Norwalk.

**Section III**  
**Development and Management Plan Narrative**  
**(Grading, Soil Erosion & Sedimentation Control and Foundations)**

The intent of this D&M Plan (Phase 2) is to describe the grading for the project area, provide a plan for soil erosion and sedimentation control and describe the foundation work within the project area.

**Key Map**

A key map can be found in Section IV, *Figure 1, Site Location Map, USGS*

**Grading**

The grading for this project is shown in Appendix B. The southern portion of the site will have the least amount of elevation change. The final grade for the southern portion will be close to the existing elevation. The northern portion of the project will be lowered down to meet the same elevation as the southern portion. A retaining wall will be constructed at the northern side of the project. Soil erosion and sedimentation control measures will be installed prior to any grading activity.

**Soil Erosion & Sedimentation Control**

Prior to any construction activities, soil erosion and sedimentation control measures will be taking. A soil erosion and sedimentation control plan is found in Appendix C and Appendix D.

**Foundations**

The majority of the foundation construction will commence after the completion of rough grading. An exception to this is three caissons will be constructed before the grading.

These foundations will be for the steel poles along Metro-North Right of Way. The foundation installation process typically will involve excavation, form work, use of steel reinforcement, construction of the transformer sumps, and concrete pouring. Excess material or material deemed not suitable for compaction, if any, will either be used on-site or disposed of off-site in accordance with applicable requirements. Found in Appendix E and Appendix F are the foundation plans for both CL&P and SNEW.

## **Section IV**

## **Appendix**

**Appendix A: Figure 1, Site Location Map, USGS**





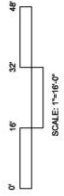
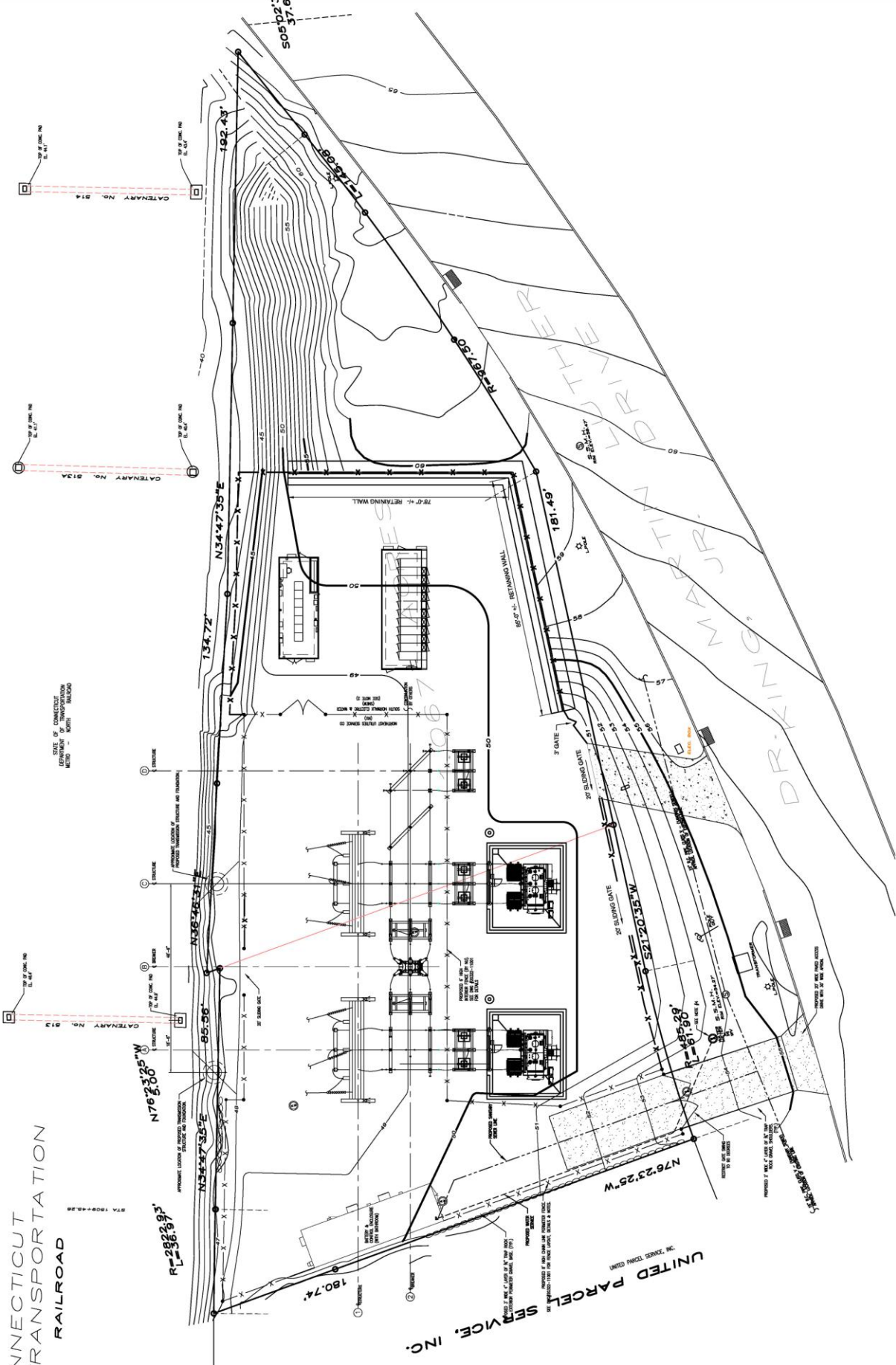
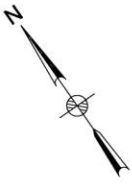
**South Norwalk Electric and Water**

**Figure 1**  
**Site Location Map**  
**180-184 Dr. Martin Luther King Jr. Drive**  
**Norwalk, Connecticut**



## **Appendix B: Site Grading Plan**

STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION  
METRO - NORTH RAILROAD



UNITED PARCEL SERVICE, INC.  
300 ZENITH CENTER DRIVE  
BOSTON, MA 02110

Notes

Legend

Reference Drawings

HAZARD DRAWING 2022-10002 'TRAINING PLAN SITE DEVELOPMENT'

Rev	Date	Drawn	Description	Checked	Appr'd
B	06-16-13	OSP	ISSUED FOR PERMIT	CD	CD
A	05-08-13	OSP	ISSUED FOR REVIEW	CD	CD

Mett MacDonald  
1000 Main Street  
Norwalk, CT 06856  
Tel: (203) 833-0000  
Fax: (203) 833-0001  
www.mettmacdonald.com

Client: South Norwalk Electric and Water  
(SNEW)  
164 Water Street  
Norwalk, CT. 06856  
MM\_CLIENT5

SITE GRADING PLAN

Designated	By	Checked	By
DESIGNED	OSP	DESIGNED	OSP
DRAWN	OSP	DRAWN	OSP
CHECKED	OSP	CHECKED	OSP
APPROVED	OSP	APPROVED	OSP

PROJECT: SOUTH NORWALK ELECTRIC AND WATER (SNEW) 164 WATER STREET NORWALK, CT. 06856 MM\_CLIENT5

DATE: 06-16-13

SCALE: AS SHOWN

PROJECT NUMBER: 312307-Y-01

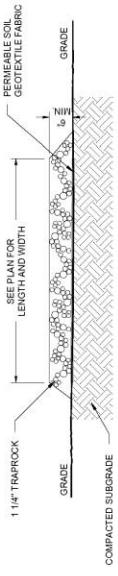
This document is prepared for the party which commissioned it and for specific purposes connected with the authorized project only. It should not be relied upon by any other party or used for any other purpose. The user is responsible for the consequences of this document being used for any other purpose, or continuing any error or omission which is due to error or omission in data supplied to us by other parties.

**Appendix C: Soil Erosion and Sedimentation Control Plan-SNEW**

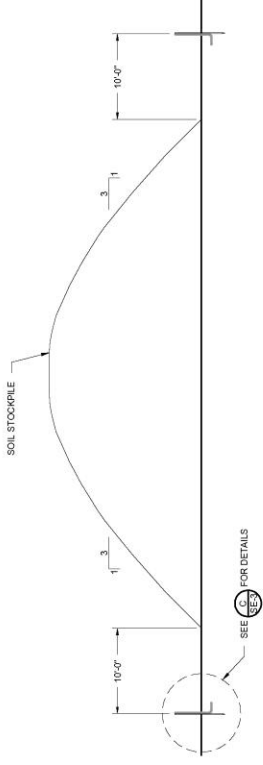




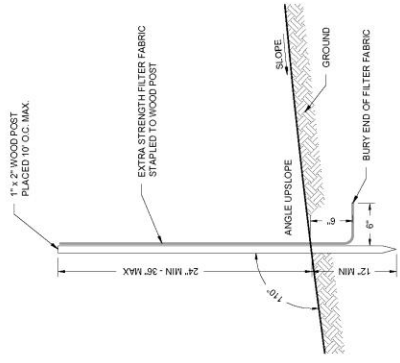




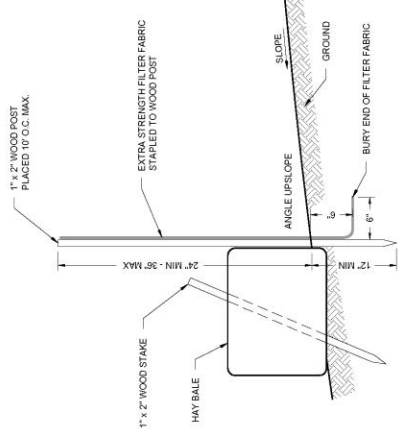
**A**  
SE-3  
ANTI-TRACKING PAD  
NOT TO SCALE



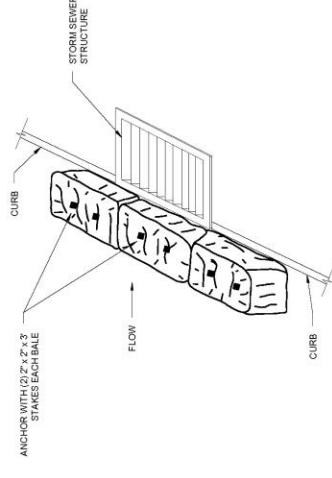
**B**  
SE-3  
SOIL STOCKPILE - TYPICAL  
NOT TO SCALE



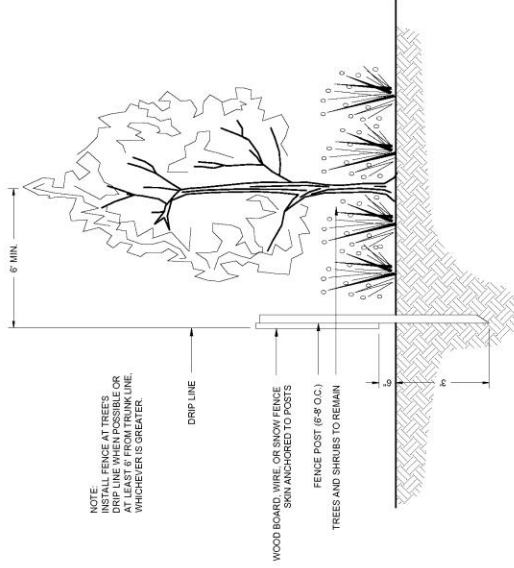
**C**  
SE-3  
SILTATION CONTROL FENCE - TYPICAL  
NOT TO SCALE



**D**  
SE-3  
SILTATION CONTROL FENCE WITH HAY BALE BACKING  
NOT TO SCALE



**E**  
SE-3  
HAY BALE INSTALLATION AT CATCH BASIN - TYPICAL  
NOT TO SCALE



NOTE:  
INSTALL FENCE AT TREE'S  
DAP (DAP IS THE POINT OF  
GROWTH OF THE TRUNK)  
AT LEAST 1\"/>

DRIP LINE  
WOOD BOARD, WIRE OR SNOW FENCE  
SHRUBS TO REMAIN  
FENCE POST (8\"/>

NOTES:  
1. FOR TREES TO REMAIN, INSTALL TREE PROTECTION FENCE AT DRP  
LINE OF TREES WHERE FEASIBLE.  
2. PROTECTION FENCE OR WITHIN FENCED OFF AREAS, EXCEPT AS  
APPROVED BY THE PROJECT ENGINEER.

**F**  
SE-3  
TREE PROTECTION FENCE  
NOT TO SCALE

DRAFT

SOUTH NORWALK ELECTRIC AND WATER  
SECOND TAXING DISTRICT  
CITY OF NORWALK, CONNECTICUT  
SOIL EROSION AND SEDIMENT CONTROL: DETAILS

DATE	REVISED	PREPARED BY
		LEGGETTE, BRASHEARS & GRAHAM INC. Professional Groundwater and Environmental Engineering Services 4 Research Drive Shelton, Connecticut 06484 (203) 924-8555



APPROVED:	THUMBPRINT:	DRAWN:	RAC:	CHECKED:	KD:	DATE:	05/21/13	PLATE:	SE-3
WILLIAM K. BECKMAN									



**Appendix D: Soil Erosion and Sedimentation Control Plan-CL&P**









**Appendix E: Foundation Plan- CL&P**







## **Appendix E: Foundation Plan- SNEW**

Notes

Legend

Reference Drawings

Revisions

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North Arrow

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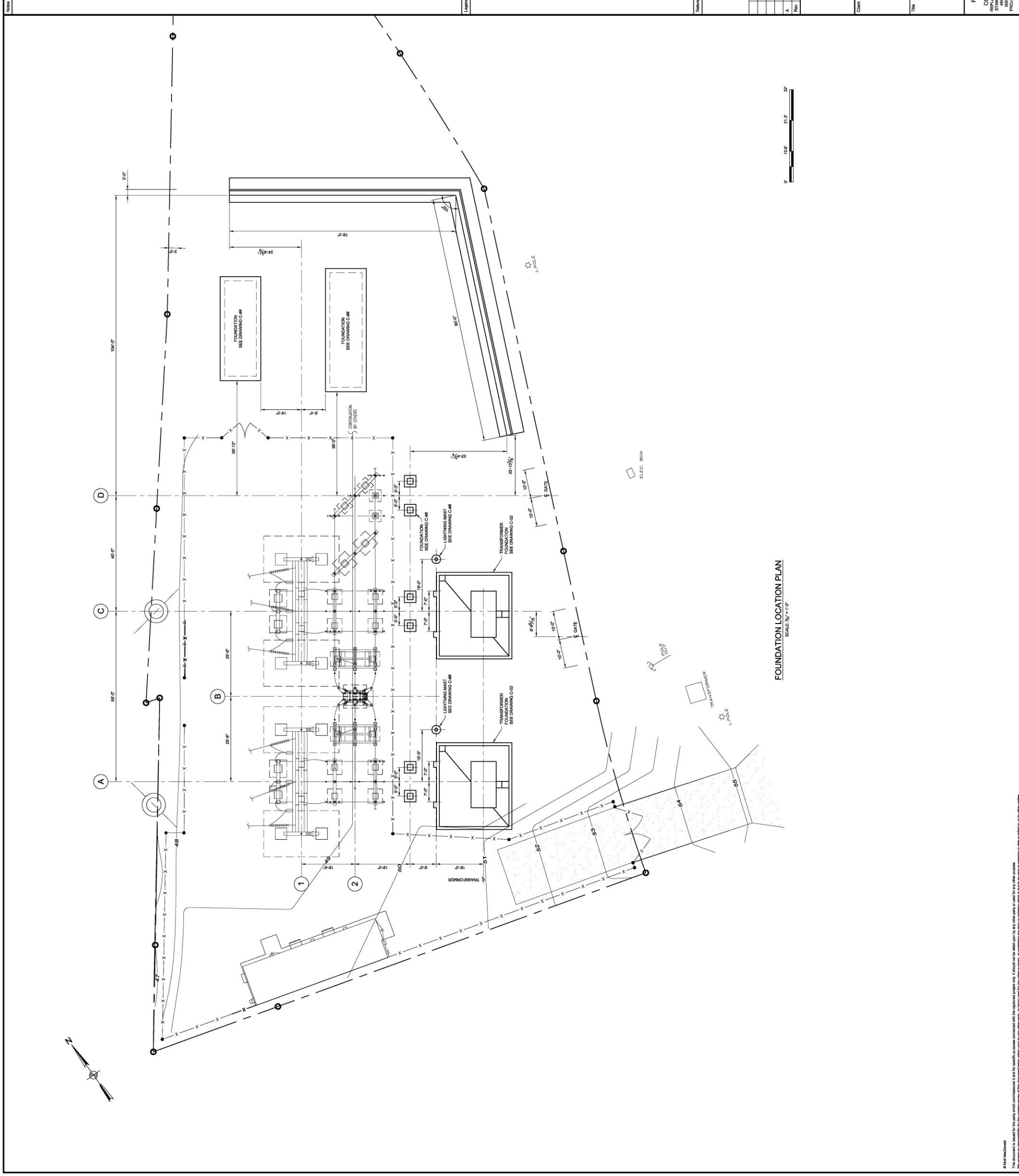
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FOUNDATION LOCATION PLAN  
SCALE: 3/4" = 1'-0"



Client: South Norwalk Electric and Water (SNEW)  
164 Water Street  
Norwalk CT 06856

FOUNDATION LOCATION PLAN

Rev	Date	Drawn	Description	CK	CD
A	06/14/13	DSP	ISSUED FOR PERMIT	CK	CD

Designed	DSP	Eng check	CK
Drawn	DSP	Approved	CD
Draw check	CK	Project Mgr	CD
Scale at ANS E	NOTED	Date	Rev
AND/OR FABRICATION	NOTED	06/14/13	A
PROJECT ADMINISTRATION	MANUAL	Drawing Number	312307-C-01

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