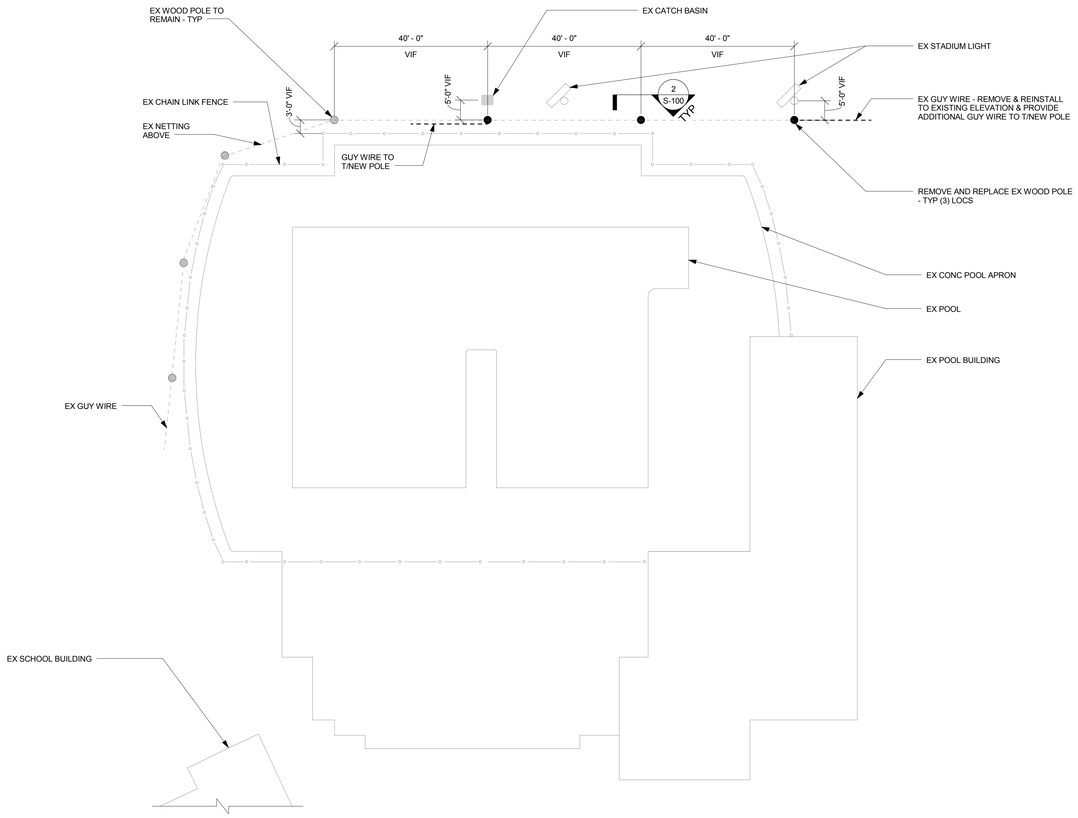
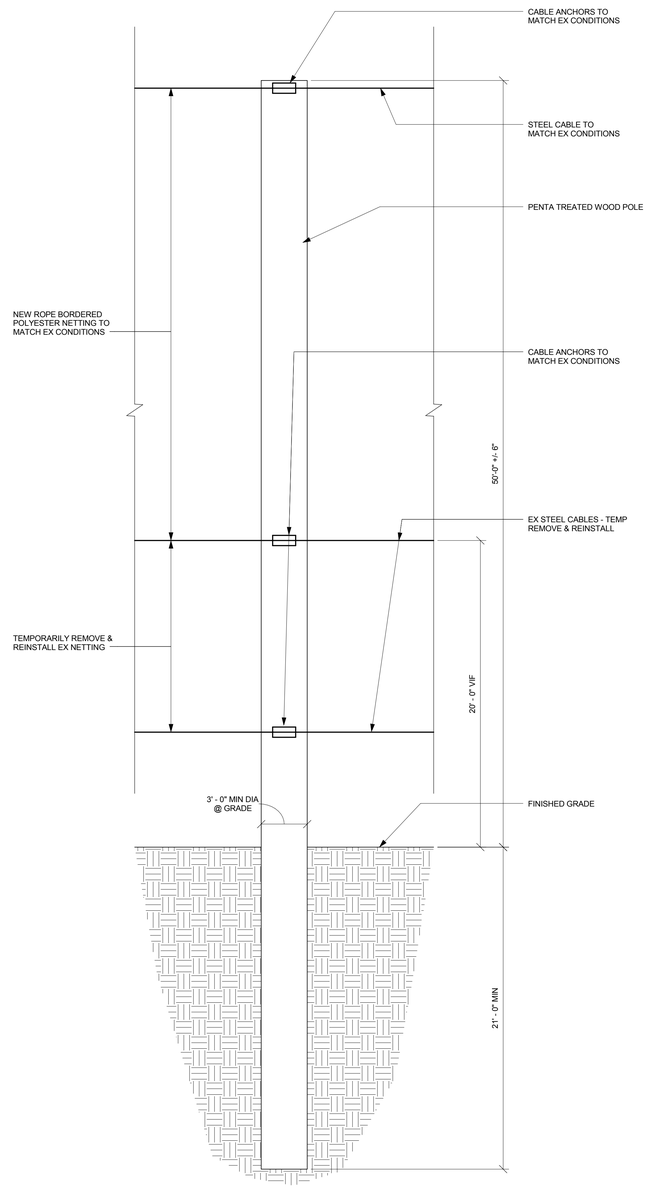


1 PLAN
1/16" = 1'-0"



2 TYPICAL POLE DETAIL
1/4" = 1'-0"

GENERAL NOTES:

1. ALL DETAILS, SECTIONS, AND NOTES SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS, UNO.
2. NO CHANGE IN SIZE, DIMENSION OR POSITION OF STRUCTURAL ELEMENTS SHALL BE MADE WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.
3. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS BEFORE STARTING CONSTRUCTION AND/OR SUBMITTING SHOP DRAWINGS. ANY DISCREPANCIES SHALL BE REPORTED TO THE STRUCTURAL ENGINEER OF RECORD.
4. TAKE ALL MEASURES NECESSARY TO PROTECT EXISTING AND NEW UTILITIES AND ASSUME FULL RESPONSIBILITY FOR ANY DAMAGE DURING CONSTRUCTION. RESTORATION OF DAMAGED AREAS SHALL BE TO THE SATISFACTION OF THE OWNER, AT NO COST TO THE OWNER.
5. DO NOT REPRODUCE ANY PORTION OF THE STRUCTURAL CONTRACT DRAWINGS FOR RESUBMITTAL AS SHOP DRAWINGS. SHOP DRAWINGS PRODUCED IN SUCH A MANNER WILL BE REJECTED AND RETURNED.

CODES & STANDARDS:

1. THE FOLLOWING CODES AND STANDARDS, INCLUDING ALL SPECIFICATIONS REFERENCED WITHIN, APPLY TO THE DESIGN AND CONSTRUCTION OF THIS PROJECT:
   a. ICC, INTERNATIONAL BUILDING CODE - 2009 WITH MASSACHUSETTS 8TH EDITION BUILDING CODE AMENDMENTS.
   b. ASCE 7-05, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.
   c. NDS-2005, NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION.

DESIGN LOADS:

1. WIND

a.	WIND SPEED	105 MPH
b.	EXPOSURE	C
c.	DIRECTIONALITY FACTOR, Kd	0.85
d.	TOPOGRAPHIC FACTOR, Kzt	1.0
e.	IMPORTANCE FACTOR	1.0
f.	DESIGN LOAD ON POLE	270 PLF *

* ASSUMES NETTING CONTAINS LESS THAN 10% SOLID AREA

FOUNDATIONS AND EARTHWORK:

1. AFTER THE EXCAVATED AREAS ARE PREPARED THEY SHALL BE CLEANED OF ALL LOOSE MATERIAL PRIOR TO PLACING CONCRETE.
2. THE CONCRETE FOUNDATION MUST BE PLACED THE SAME DAY THE SUBGRADE IS PREPARED. IF THE SURFACE IS DISTURBED BEFORE CONCRETE IS PLACED, THE SUBGRADE SHALL BE RE-CLEANED OF LOOSE MATERIAL AT THE CONTRACTOR'S EXPENSE.
3. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE DESIGN, INSTALLATION, AND PERFORMANCE OF ALL DEWATERING SYSTEMS.
4. UTILITIES SHALL NOT BE LOCATED BENEATH FOUNDATIONS UNLESS SPECIFICALLY INDICATED ON THE STRUCTURAL DRAWINGS.

CAST-IN-PLACE CONCRETE

1. PROVIDE CAST-IN-PLACE CONCRETE FOR EACH CLASS OF CONCRETE SHOWN IN THE CONCRETE MATERIAL SCHEDULE AND AS REQUIRED BY CONSTRUCTION METHODS & SCHEDULES.
2. CHAMFER ALL EXPOSED CORNERS 3/4", UNO.
3. SUBMIT COORDINATED AND CHECKED SHOP DRAWINGS FOR REVIEW. SHOP DRAWINGS ARE TO INCLUDE ALL CONCRETE MIXES INCLUDING PRODUCT DATA FOR ALL ADMIXTURES. SHOP DRAWINGS ARE TO BE APPROVED PRIOR TO THE START FABRICATION.

WOOD POLE FRAMING

1. ALL WOOD POLES HAVE BEEN DESIGNED AND IS TO BE BUILT IN CONFORMANCE WITH THE "NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION" OF THE AMERICAN FOREST & PAPER ASSOCIATION.
2. ALL WOOD POLES ARE TO BE SOUTHERN PINE #2 OR BETTER WITH THE FOLLOWING MINIMUM PROPERTIES:
   Fb 1,700 PSI
   Fv 105 PSI
   E 1,400,000 PSI
3. ALL WOOD POLES ARE TO BE PENTA TREATED AND GROUNDED PER CODE REQUIREMENTS.
4. ALL FASTENINGS TO POLE TO BE GALVANIZED OR STAINLESS STEEL AND COMPATIBLE WITH THE PURCHASED PRESERVATIVE TREATED POLE.
5. WOOD POLES ARE TO BE HANDLED SO AS TO AVOID DAMAGE. DO NOT USE POINTED TOOLS THAT CAN INDENT THE POLE SURFACE BY MORE THAN 1/4".
6. SUBMIT COORDINATED AND CHECKED SHOP DRAWINGS FOR REVIEW. SHOP DRAWINGS ARE TO INCLUDE ERECTION PLANS AND DETAILS. SHOP DRAWINGS ARE TO INDICATE ALL FASTENERS, CONNECTORS, ATTACHMENTS, ETC. SHOP DRAWINGS ARE TO BE APPROVED PRIOR TO THE START OF FABRICATION.

MISCELLANEOUS

1. ALL NETING, CABLING, AND ANCHORAGES INCLUDING GUY LINES ARE TO VISUALLY MATCH EXISTING CONDITIONS.
2. ALL NECESSARY ENGINEERING DESIGN OF NETING, CABLING, AND ANCHORAGES SHALL BE SIGNED AND SEALED AND SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

CONCRETE MATERIAL SCHEDULE

ELEMENT	F'c (psi)	MAXIMUM WATER/ CEMENTITIOUS RATIO	DRY UNIT WEIGHT (lb/ft³)	MAX AGGREGATE SIZE (in)	AGGREGATE CLASS DESIGNATION (ASTM C33)	ENTRAINED AIR CONTENT (%)	SLUMP* ±1 (in)	MAXIMUM CHLORIDE CONTENT (%)
EXTERIOR CONCRETE	5,000	0.40	147	3/4"	4S	5 1/2% +/- 1%	4" / 8"	0.15%

* VALUES SHOWN ARE MAX SLUMP OF THE CONCRETE AS PLACED WITHOUT SUPERPLASTICIZERS OVER MAX SLUMP IF SUPERPLASTICIZERS ARE USED.

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Consultants:

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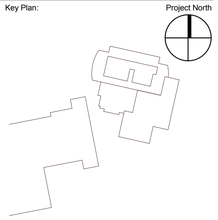
General Notes:

Project Client:
CHELSEA PUBLIC SCHOOLS
500 Broadway, Chelsea MA 02150

CHELSEA HS POOL SCREEN REPLACEMENT

Number	Description	Date
	ISSUED FOR BID	05/07/2015

Key Plan: Project North



CONSTRUCTION DOCUMENTS
MAY 8, 2015

Project No.: R7W71630

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Drawing Sheet Title:

GENERAL NOTES, PLAN, AND DETAIL

Drawing Sheet Number:

S-100

Owner's Drawing Sheet No.: