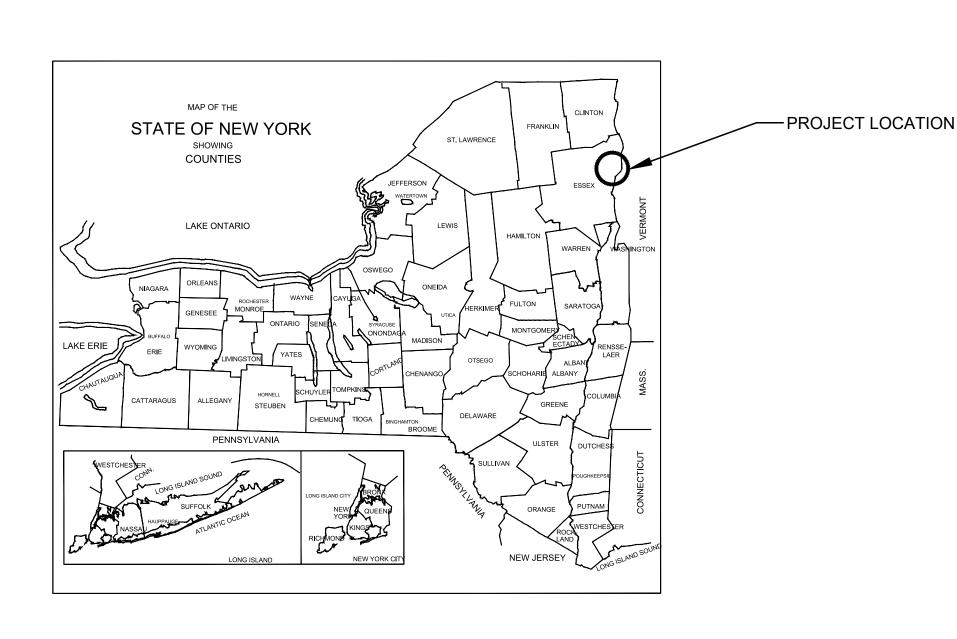
TOWN OF ESSEX, N.Y. WATER PLANT UPGRADE PROJECT



TOWN SUPERVISOR:

KENNETH HUGHES

TOWN BOARD:

RONALD JACKSON

CHRISTOPHER DEPINTO

CLAIRE LAPINE

WATER PROJECT COMITTEE MEMBERS:

RONALD JACKSON (CHAIR)

CLAIRE LAPINE

TINA GARDNER

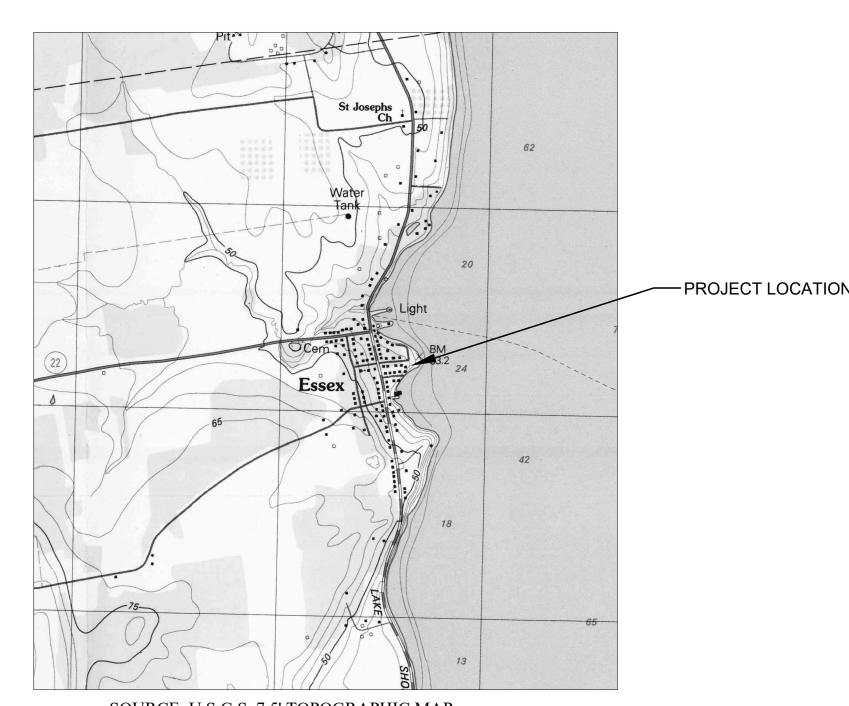
WATER/SEWER SUPERINTENDENT:

TINA GARDNER

HIGHWAY DEPARTMENT:

BRADLEY FRENCH (SUPERINTENDENT)

TOWN CLERK: ALICIA KELLY



SOURCE: U.S.G.S. 7.5' TOPOGRAPHIC MAP QUADRANGLE: WILLSBORO, NY

PREPARED BY:

Cedarwood Engineering Services, PLLC

CIVIL & ENVIRONMENTAL ENGINEERING

8-12 Dietz Street, Suite 302

3903 Main Street Oneonta, New York 13820 Warrensburg, New York 12885 607-441-3246 518-623-5500

MAY 2020

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C-0 COVER

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EXISTING SITE PHOTOS & REFERENCE TABLE

EXISTING PLANT PROCESS SCHEMATIC

EXISTING PLANT PLAN

EXISTING PLANT SECTION VIEWS

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SECTIONS AND DETAILS

SECTIONS AND DETAILS

SECTIONS AND DETAILS

DETAILS & RESTROOM LAYOUT

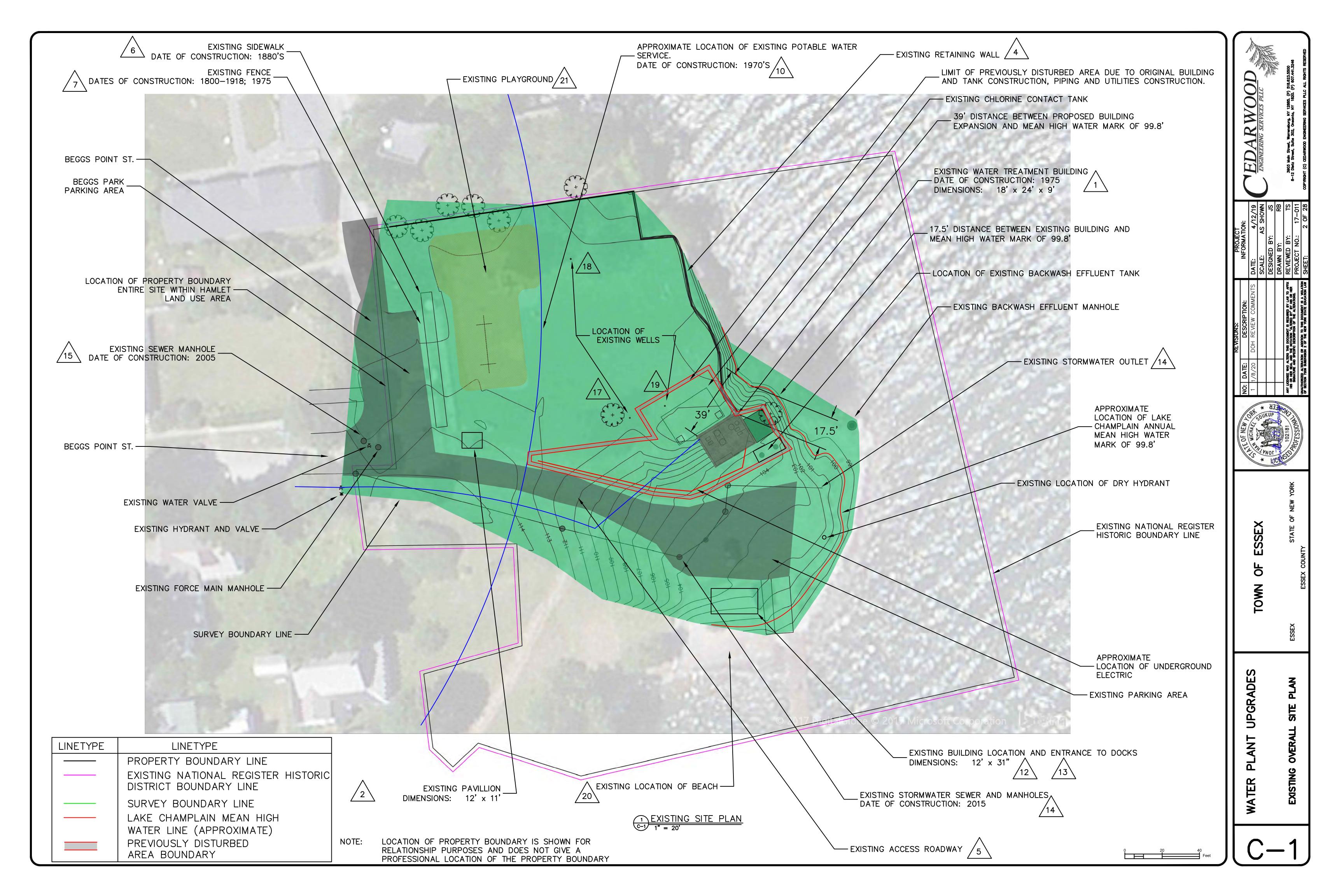
PLUMBING SANITARY/SUPPLY

ELECTRICAL LIGHTING/POWER

ONE LINE DIAGRAM/DETAILS

ONE LINE DIAGRAM/DETAILS





LOCATION OF SITE VANTAGE POINT SEE PHOTO 9, C-2 EXISTING SITE PLAN C-2 1" = 30' 3 EXISTING ROOF PLATFORM C-2 DATE: MARCH 1st 2017 4 EXISTING BUILDING C-2 DATE: MARCH 1st 2017 5 EXISTING WELL #1 AND #3 C-2 DATE: MARCH 1st 2017

9 EXISTING BUILDING FROM LAKE
C-2 DATE: JUNE 2nd 2017

Town of Essex Water System Improvement Project

Beggs' Park Existing Conditions Map Key

Map Item #	Structure/Description	Construction Date	Dimensions	Detailed Description
1	WATER TREATMENT PLANT	1975	26.5'X20'	Town of Essex water supply. Plant will be upgraded to satisfy EPA and NYSDOH Administrative Order.
2	ENTRY PAVILION	1975	12'X11'	Used as a gatehouse, shade structure, entryway to park.
3	APPROX. TAX MAP PROPERTY BOUNDARY	-		
4	RETAINING WALL	1880s; 1996 - 1999		The full retaining wall was pre-existing from the nail factory (1880s) and the 1880's wall extended to where the pump house is located today, where the "new" rebuilt wall is now located. Where the original wall ended it didn't have a corner or a post etc. The bottom of the wall extended several feet farther than the top. After the horseshoe nail factory burned and they were cleaning up the mess, that part of the wall got knocked over and was never repaired for all those years. The unrepaired wallthe last 10' southward was reconstructed in 1996-1999, to prevent another injury to a child climbing on rubble.
5	ACCESS ROAD	1976-ongoing		Blacktop driveway. Access to the site.
6	SIDEWALK/WALKWAY	1880s-ongoing		
7	FENCE	1800-1918; 1975		Part of old Horse Shoe Nail Factory.
8	POWER POLE	1970s		(Not shown on map)
9	LOCATION OF BUILDING	1949		No longer exists (not shown on map). Old water supply building.
10	WATER MAIN/WATER SERVICE	1970s		Treated water spigot; potable water for park use.
11	UNDERGROUND ELECTRIC	2015, replaced in 2016		(Not shown on map)
12	LAKESIDE PAVILION	Originally built in 1964 - 1968; 2010		Origionally built by James Morse for Donald Beggs as a storage facility / bathroom with an incinerator toilet for his cabin cruiser the Clan Mackay that was lifted up to the same level to be used as a guest cabin. Later the sides were removed. Rebuilt in 2010 on the same
13	WALKWAY/PIER/DOCK	1800s; 1960's ,2012		Temporary docking. Dock is estimated to have been installed in the 1960s built by James Morse for Donald Beggs. Refurbishment started in 2012. A previous dock at the end of the point was used for steamships in 1800's & early 1900's for the hoeseshoe nail factory.
14	STORMWATER SYSTEM	2015		Shown on map as manholes and outlet. Essex County Stormwater.
15	SANITARY SEWER SYSTEM	Completed in 2012		Wastewater System for Hamlet. Note: no wastewater runs to the site.
16	DRINKING WATER SOURCE INTAKE	1975-76	Stands in 40' of water	Town water supply intake from lake (not shown on map).
17	TEST WELL 1	2016		Drinking water test well, to be used in Town system.
18	TEST WELL 2	2016		Drinking water test well, will not be used.
19	TEST WELL 3	2016		Drinking water test well, to be used in Town system.
20	ВЕАСН	Unknown		Sand was placed in this area; NOT used for swimming.
21	PLAYGROUND	2000		Playground equipment

2 REFERENCE TABLE
C-2 NOT TO SCALE



6 POINT OF VIEW NORTH
C-2 DATE: MAY 5th 2017



6 POINT OF VIEW SOUTH
C-2 DATE: MAY 5th 2017



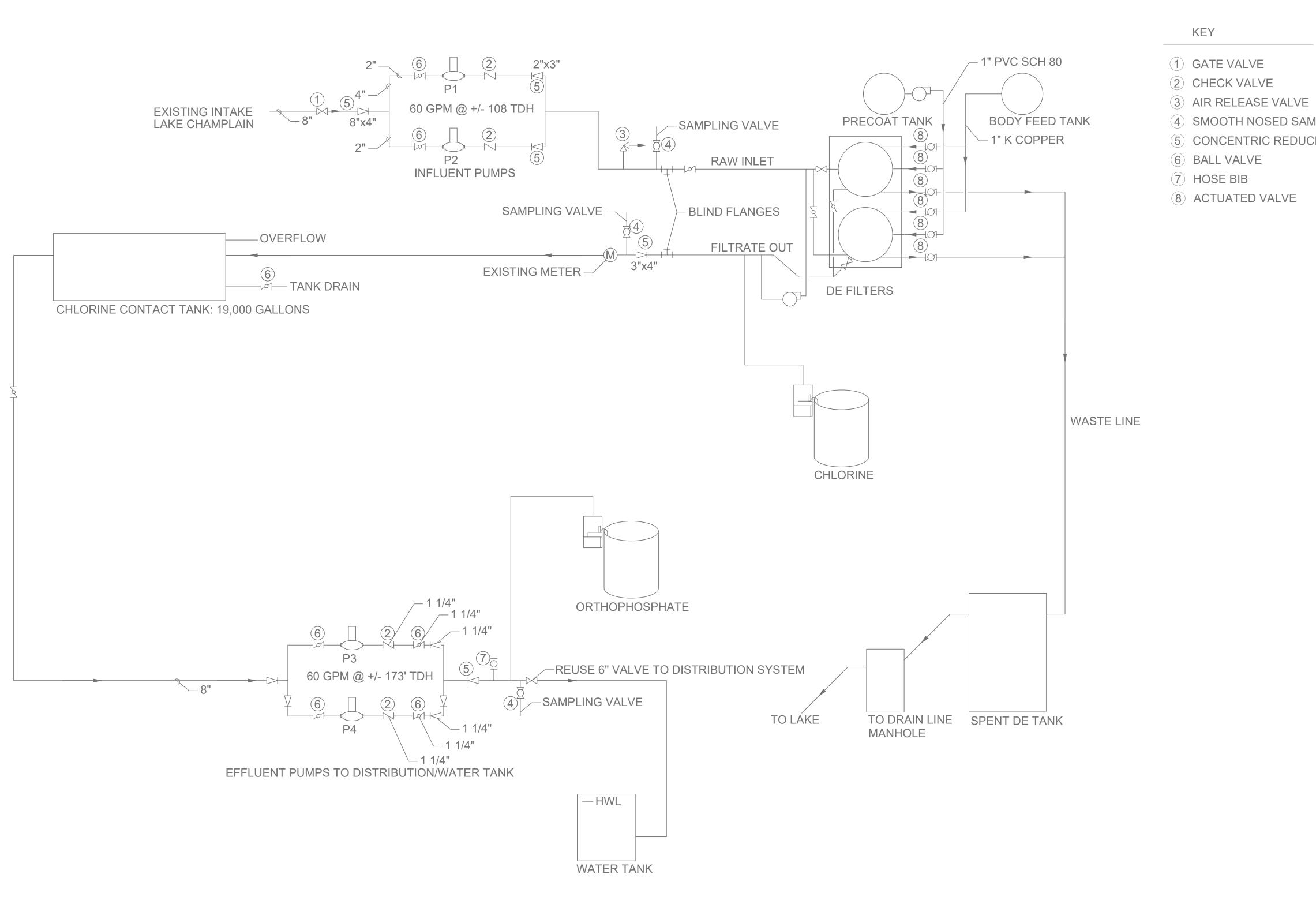
POINT OF VIEW WEST
C-2 DATE: MAY 5th 2017



8 POINT OF VIEW EAST
C-2 DATE: MAY 5th 2017

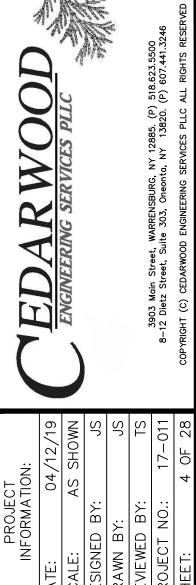
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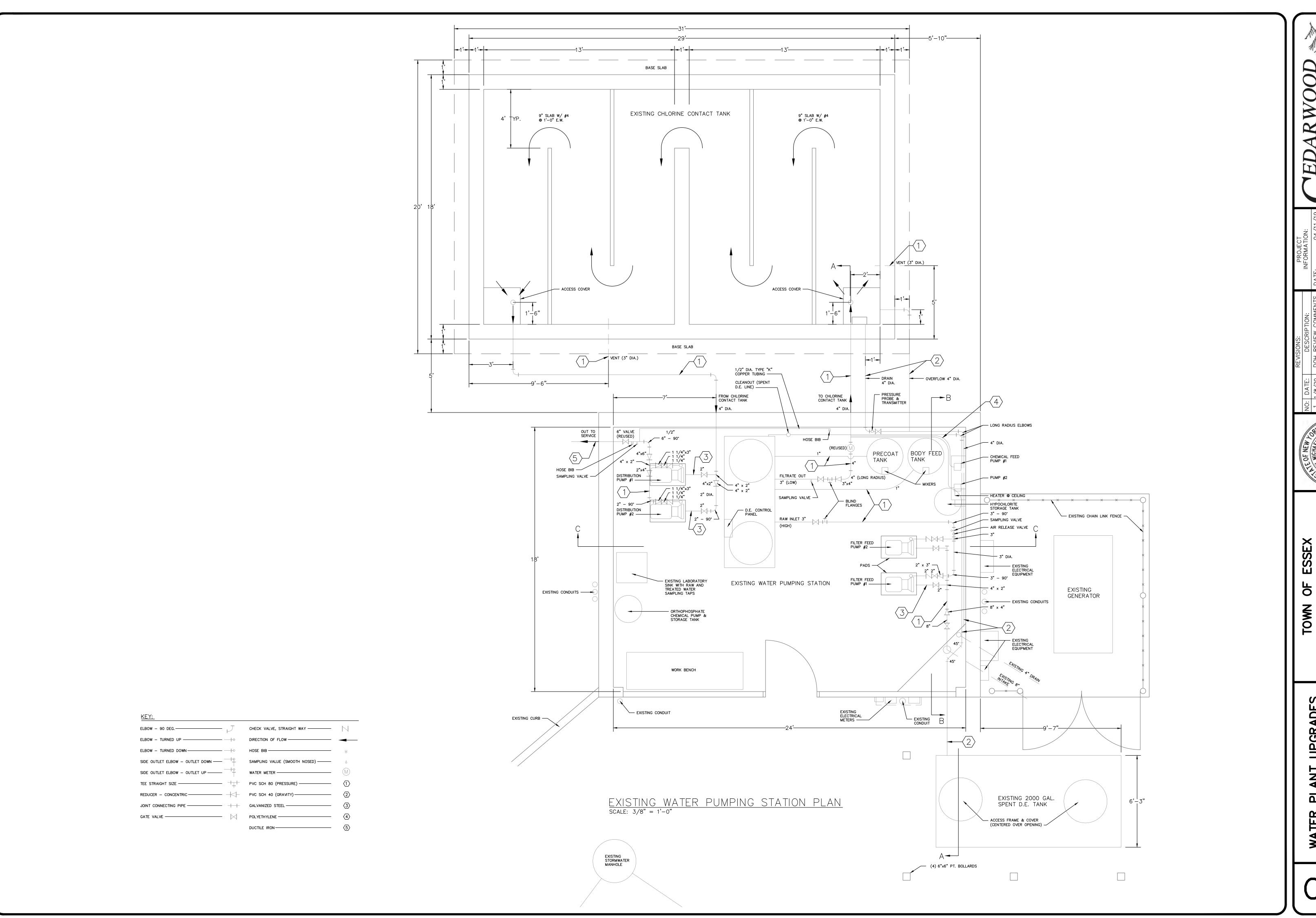
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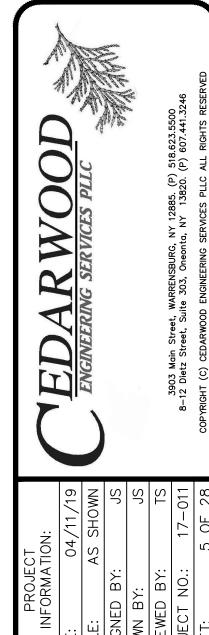
- 1 GATE VALVE
- 2 CHECK VALVE
- (4) SMOOTH NOSED SAMPLE VALVE
- 5 CONCENTRIC REDUCER
- 6 BALL VALVE
- 7 HOSE BIB
- 8 ACTUATED VALVE



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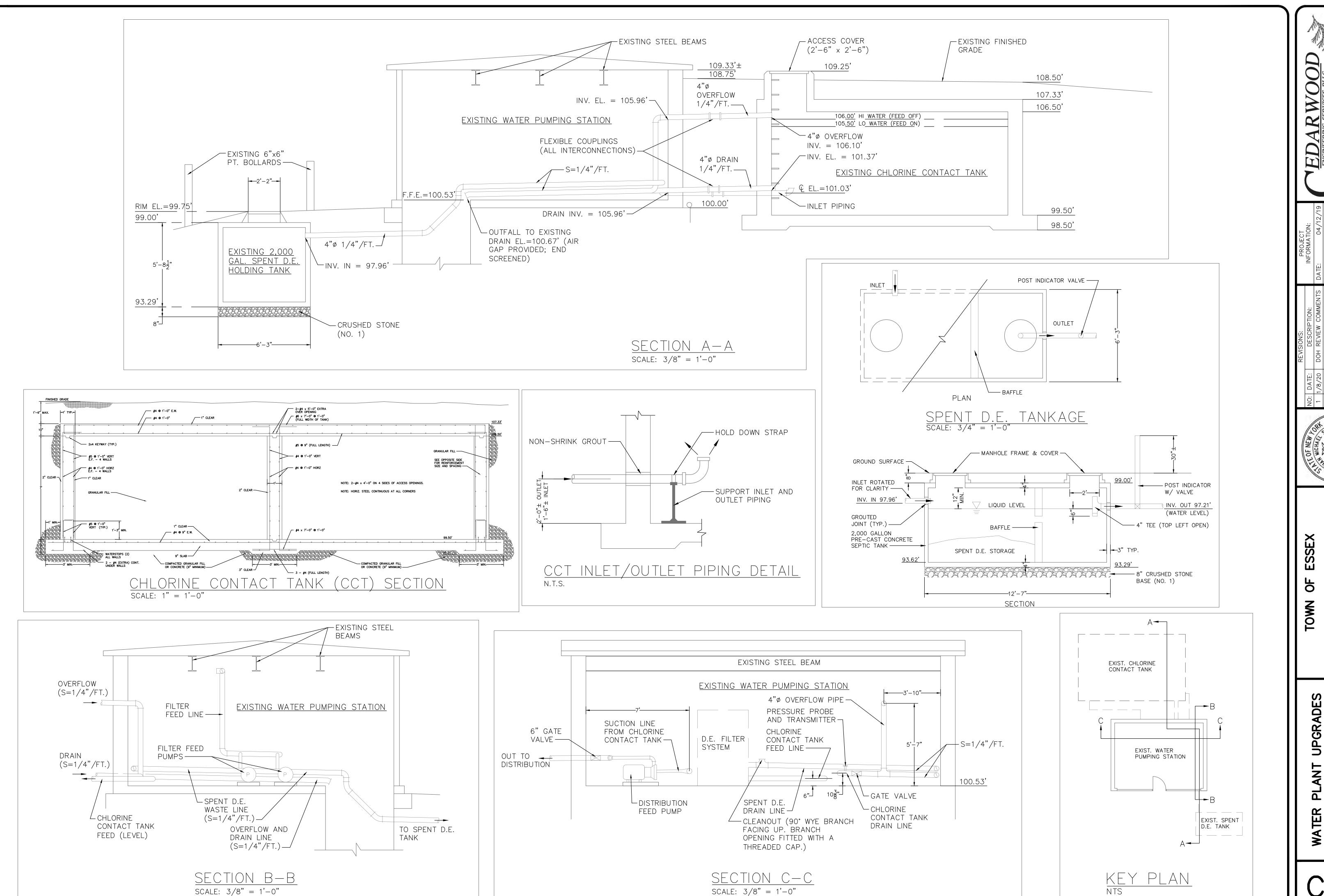






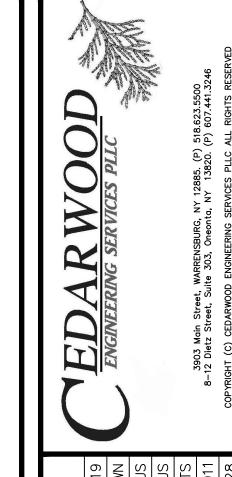
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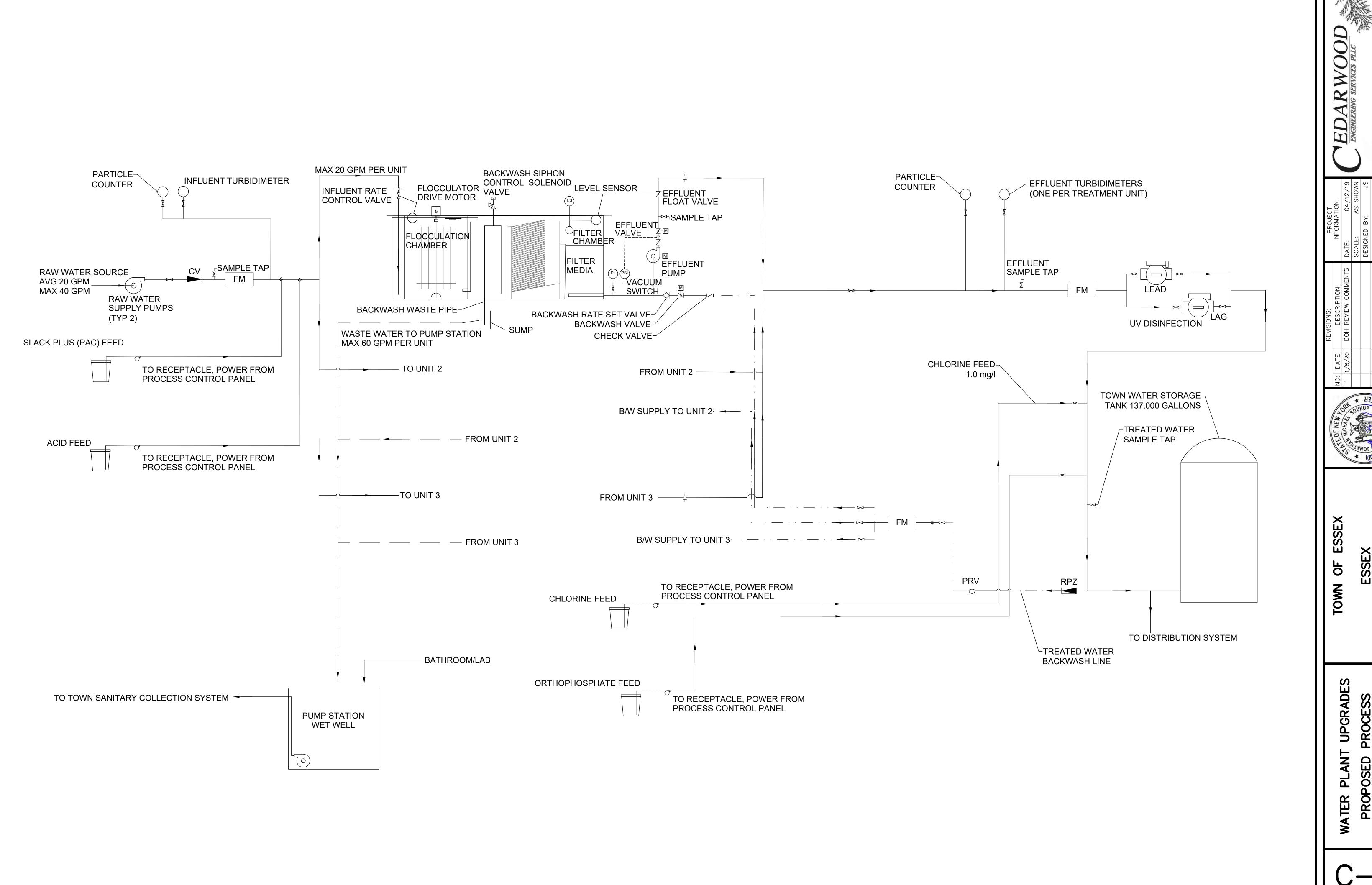
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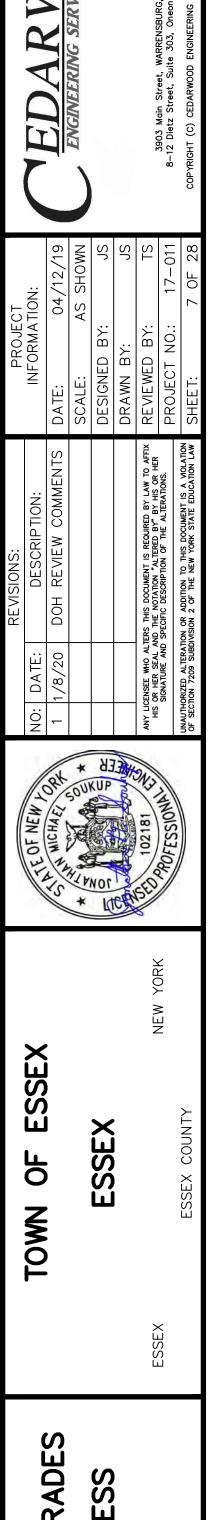


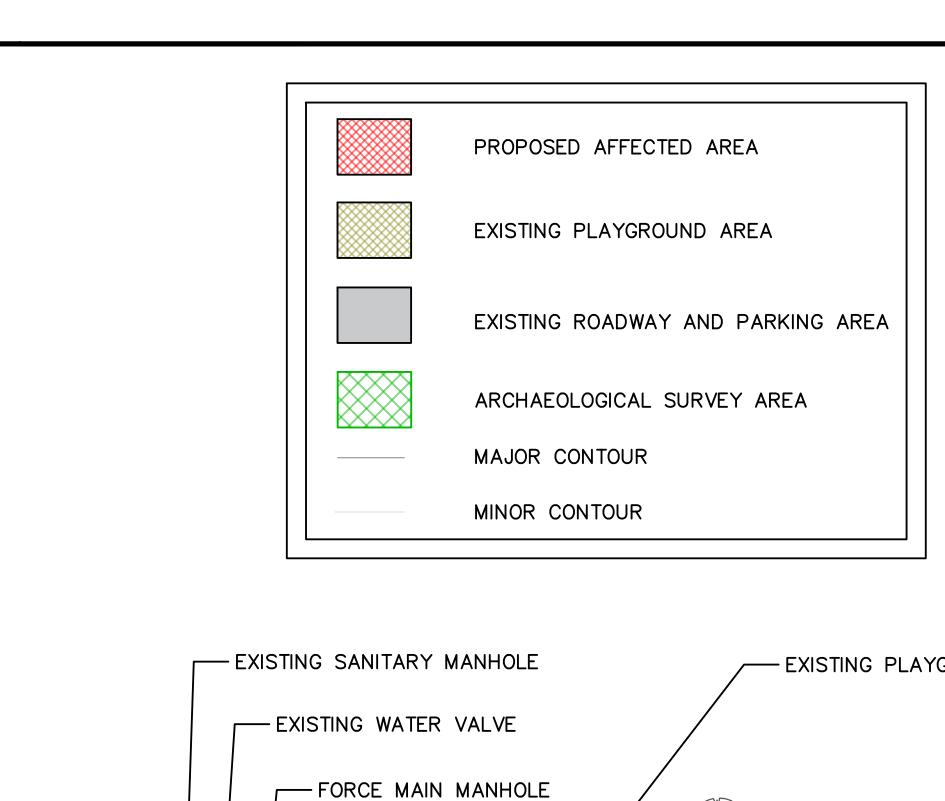
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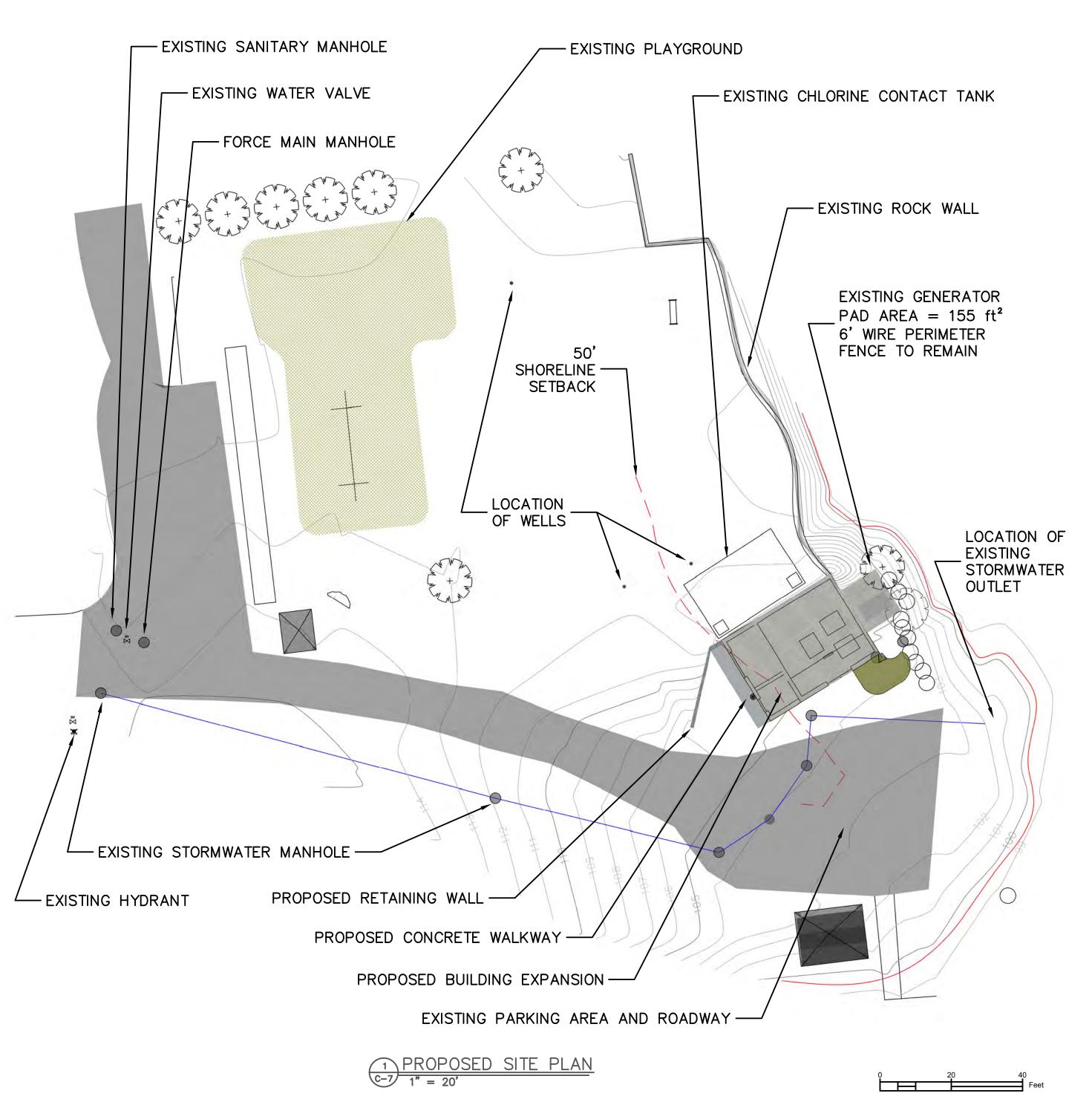
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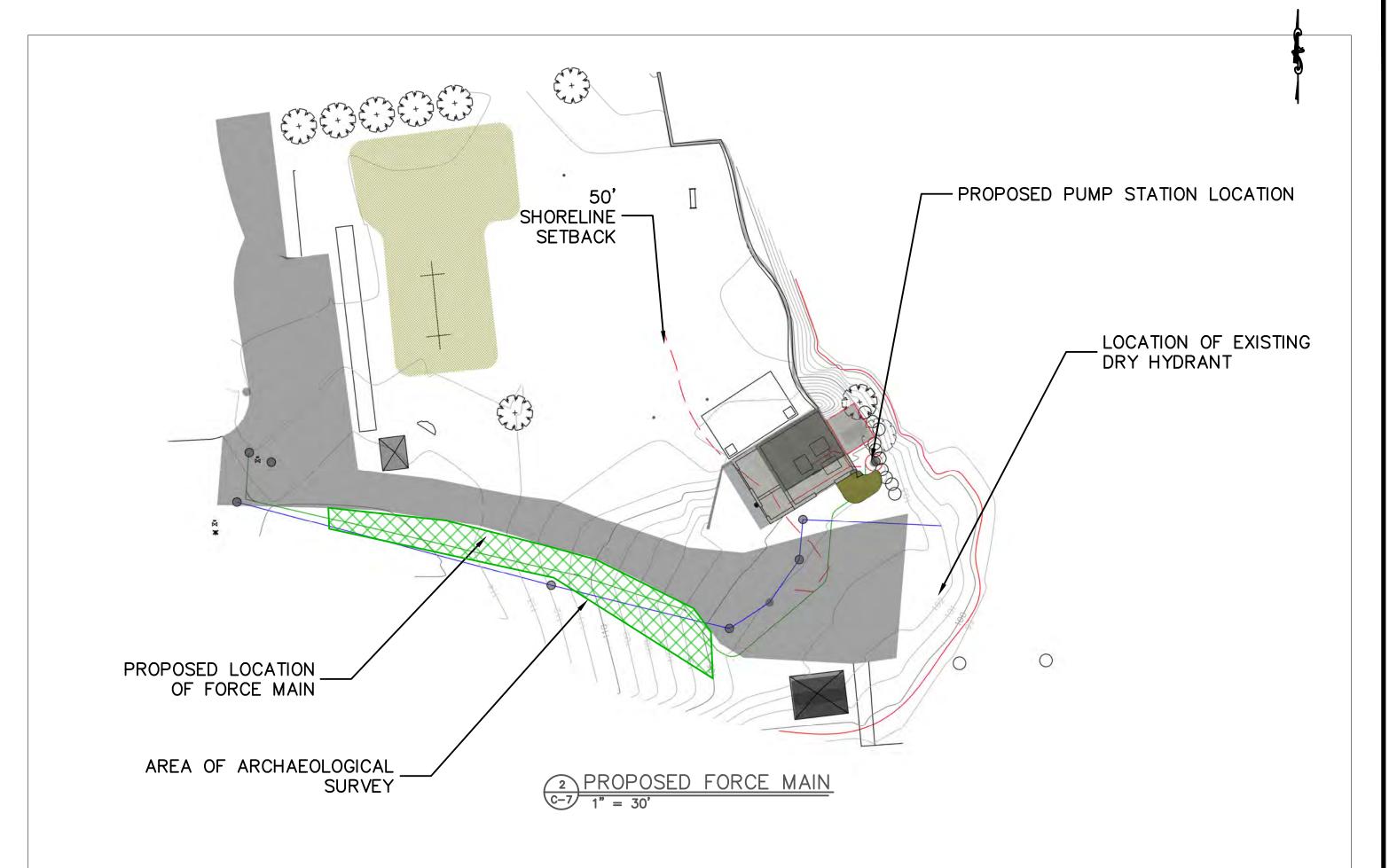
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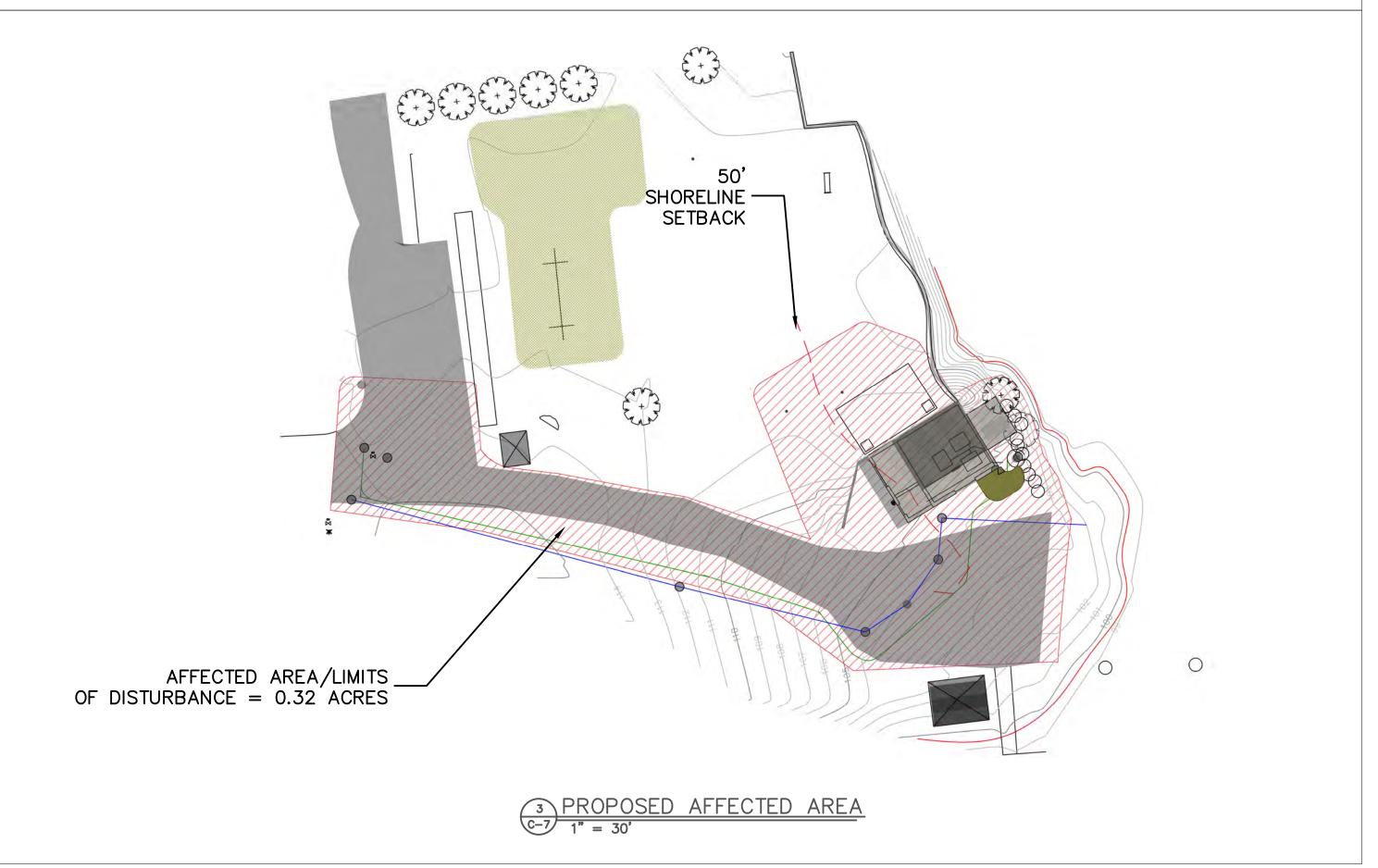


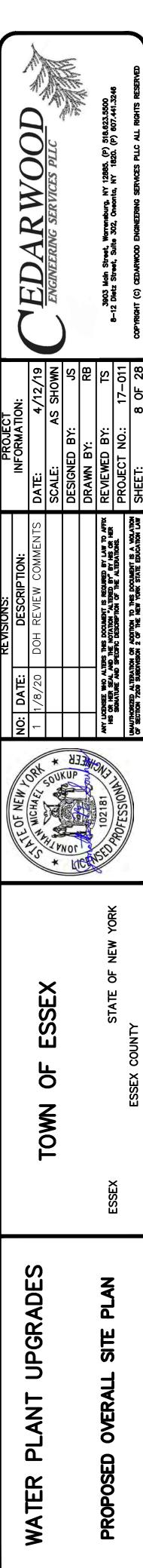


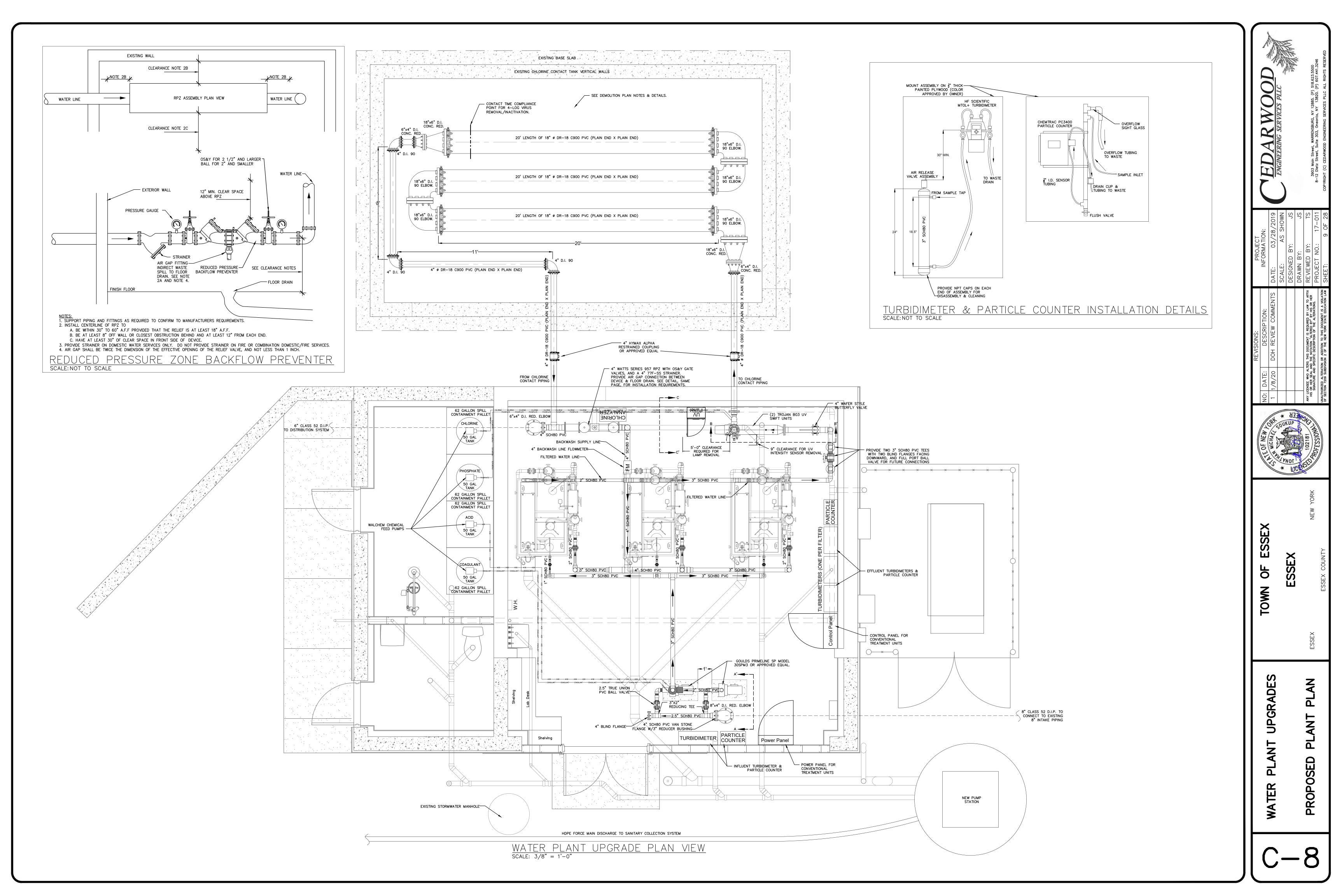


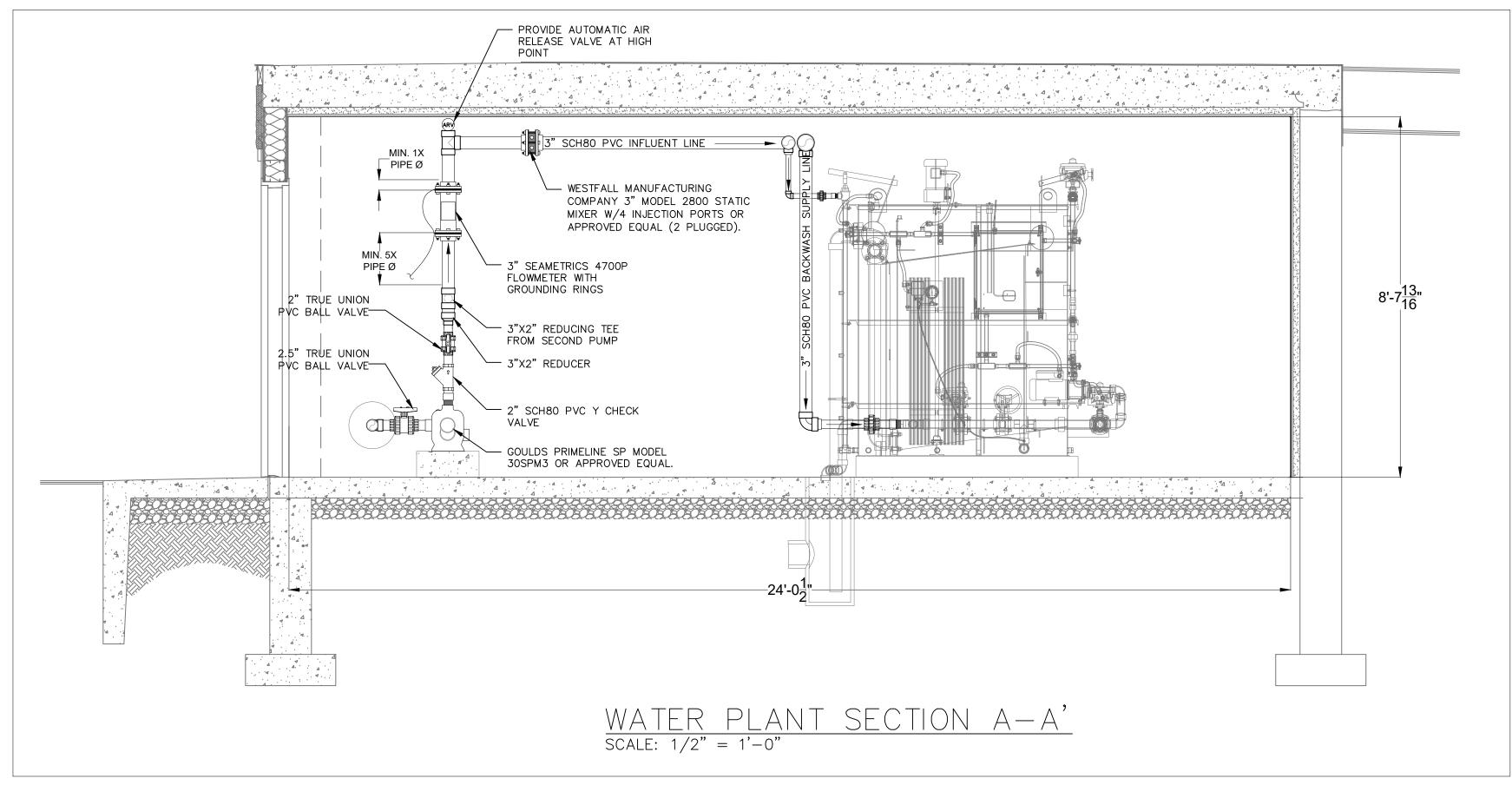


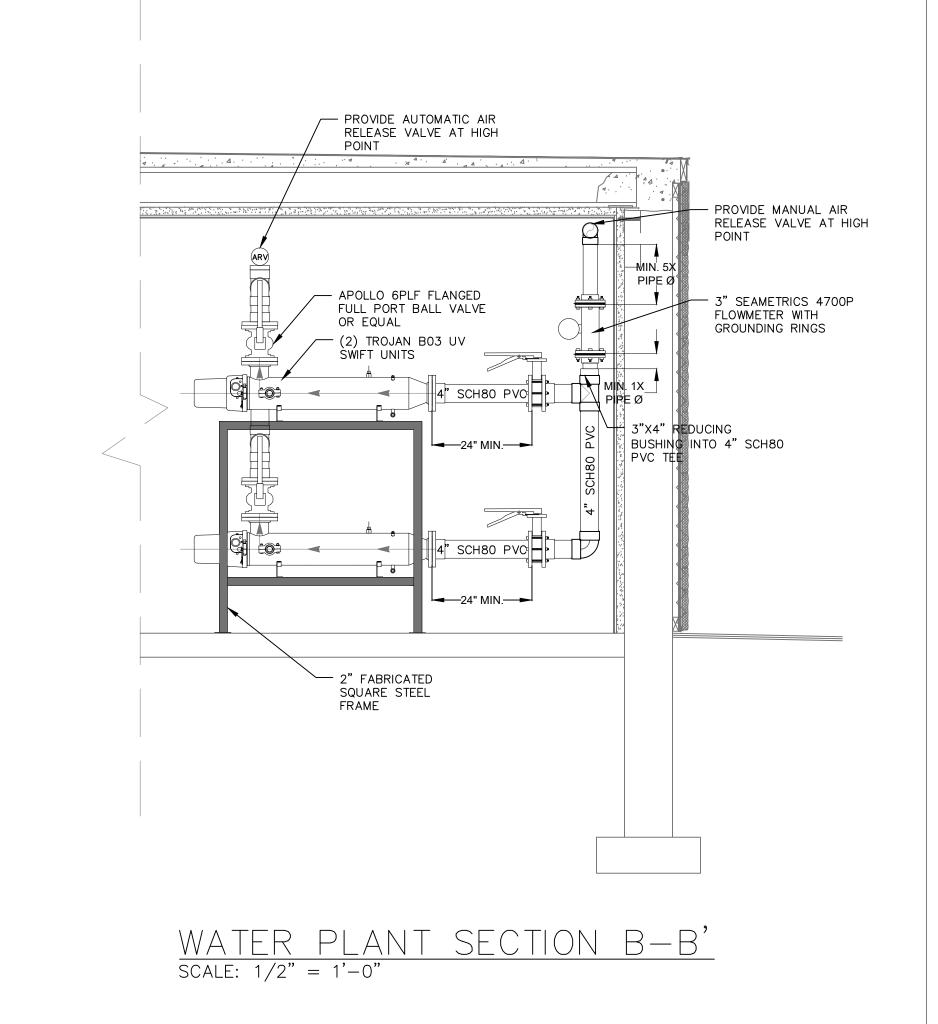


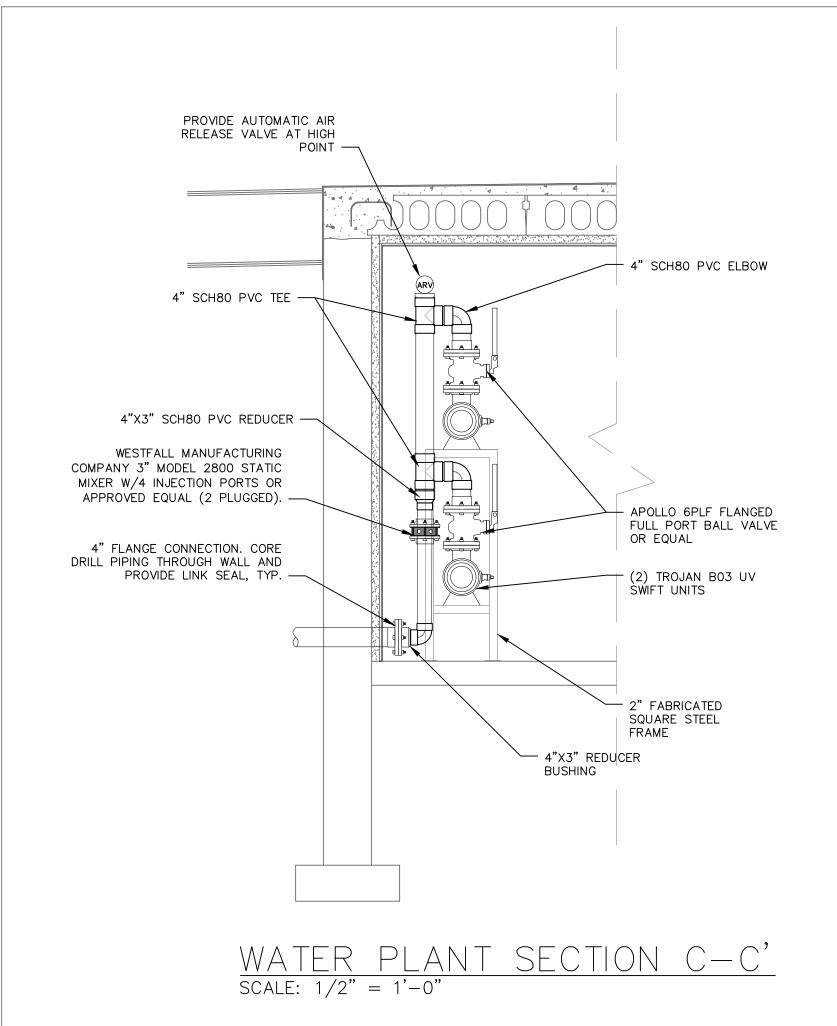


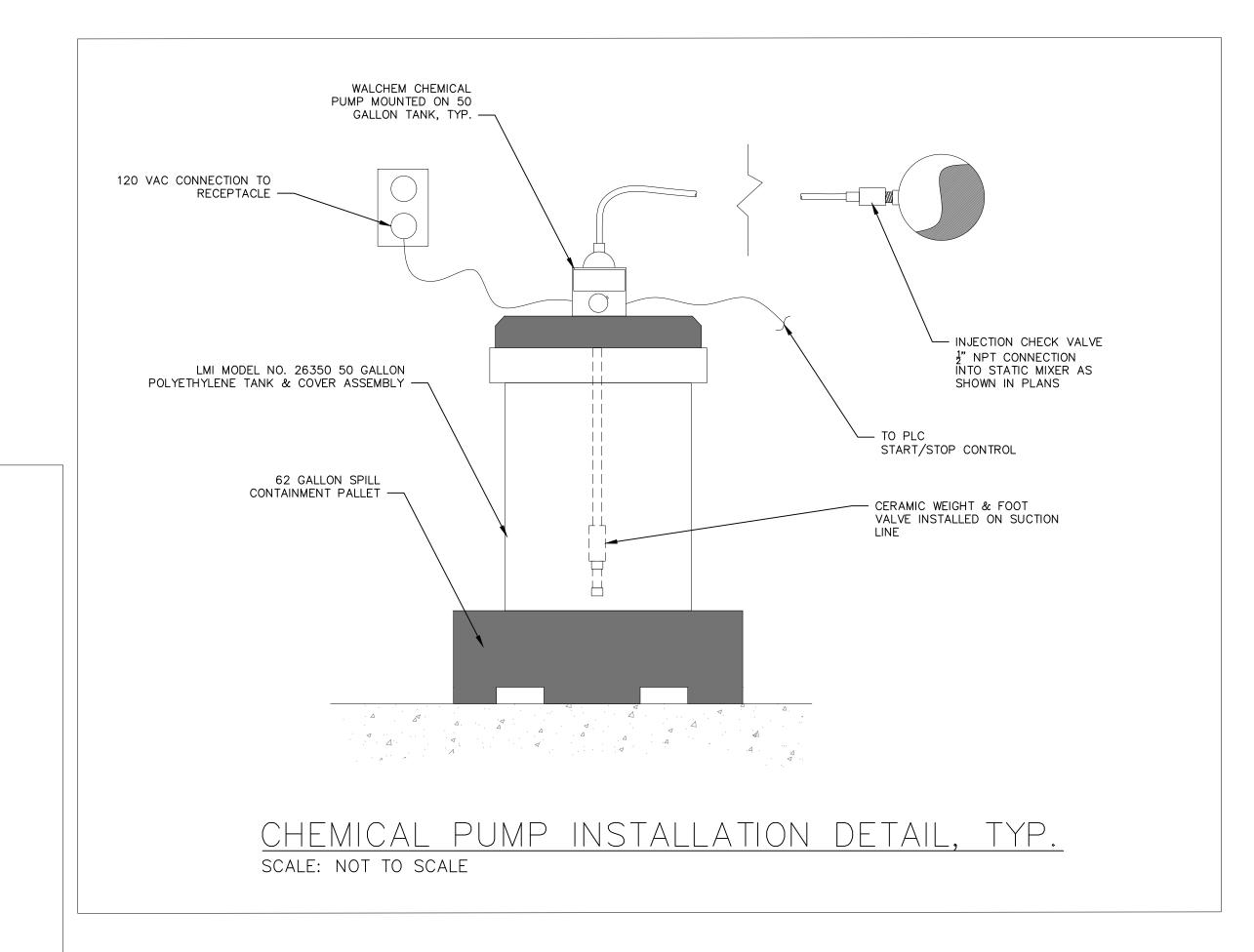


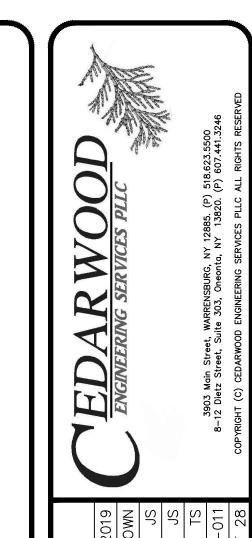












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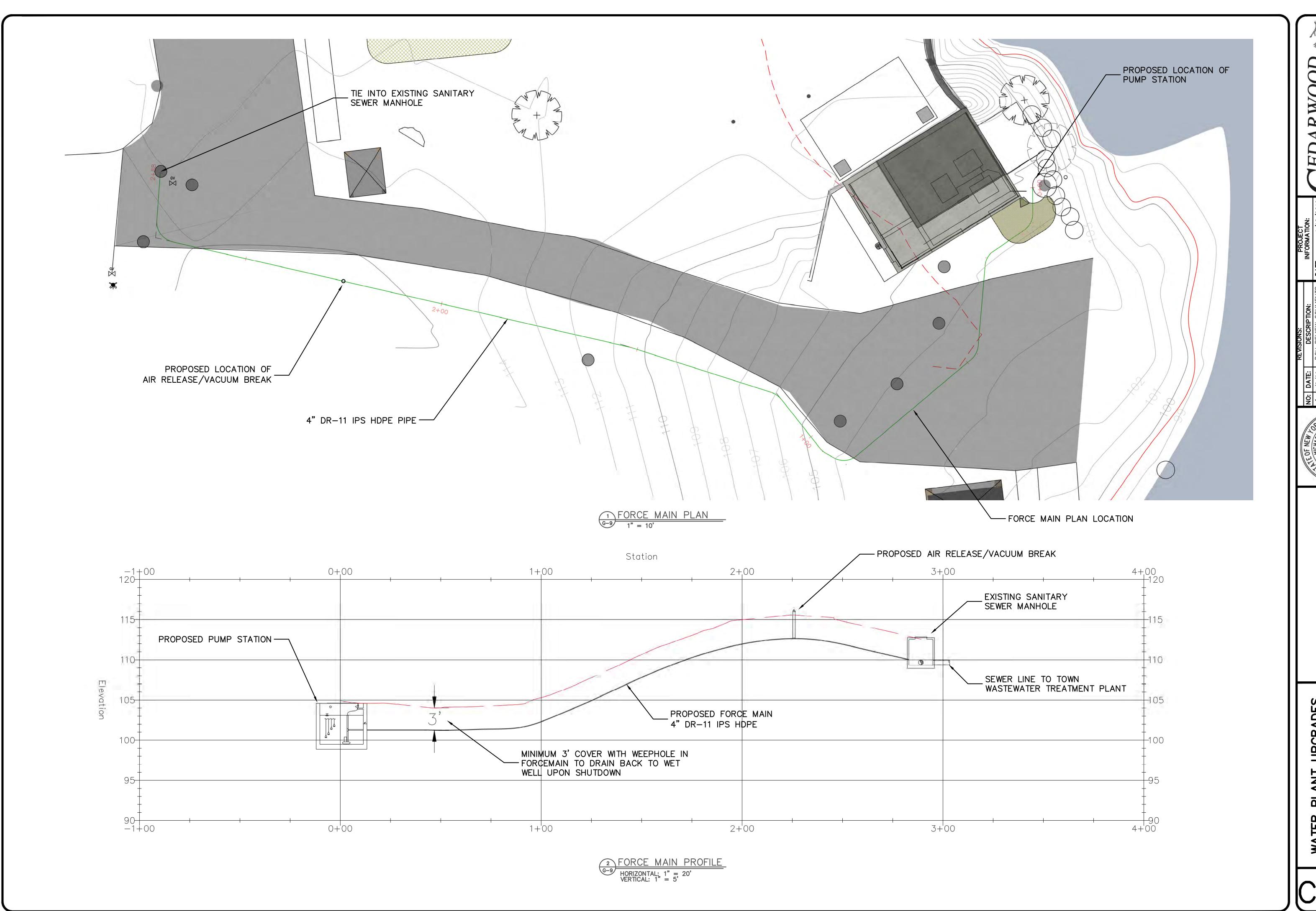
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PROPOSED
PLANT SECTION VIEW

C-9

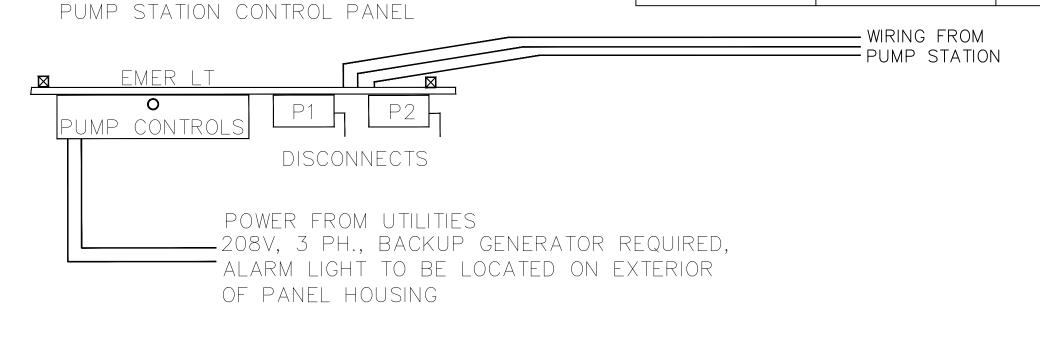


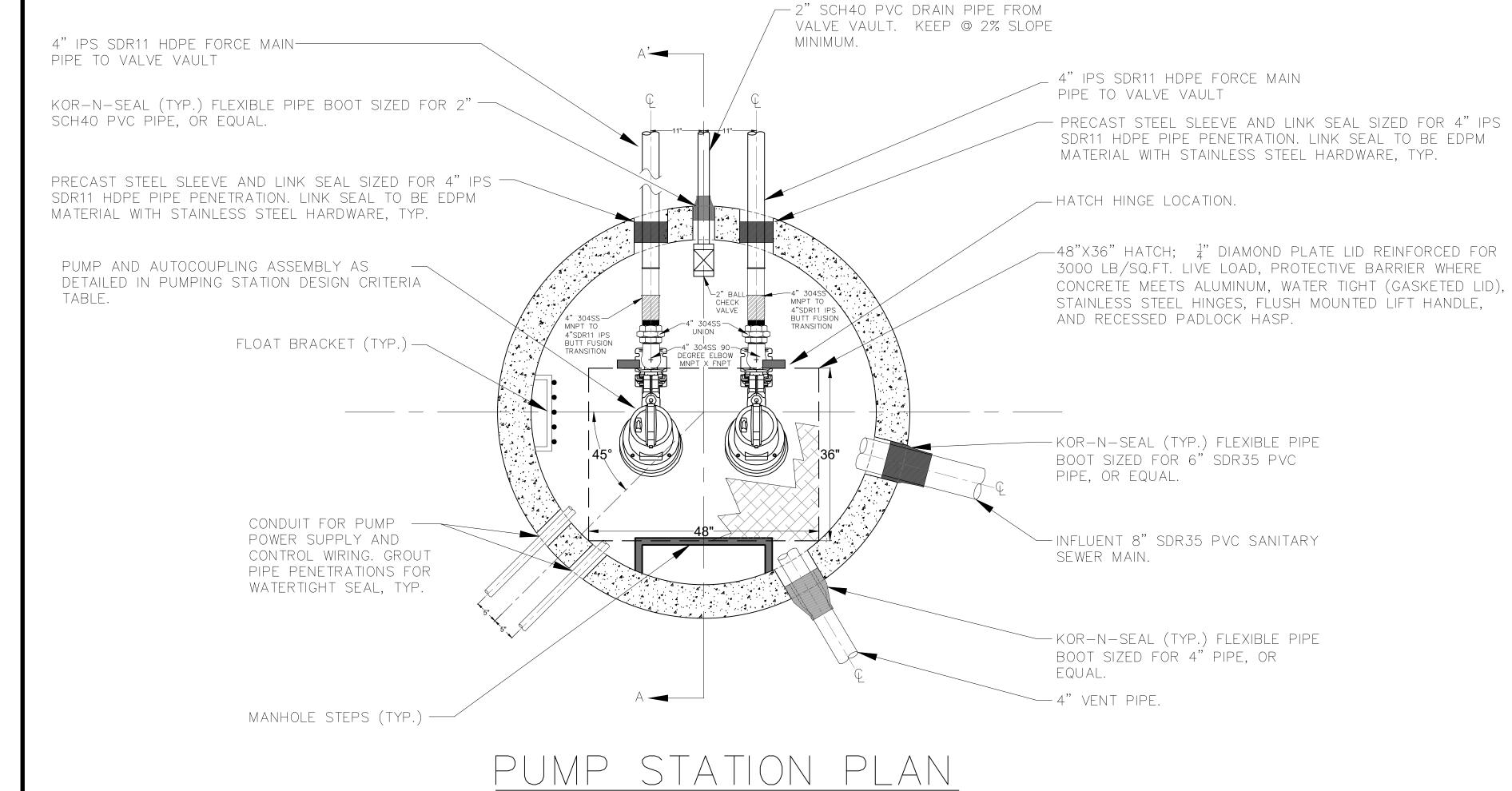


PUMP STATION DETAILS

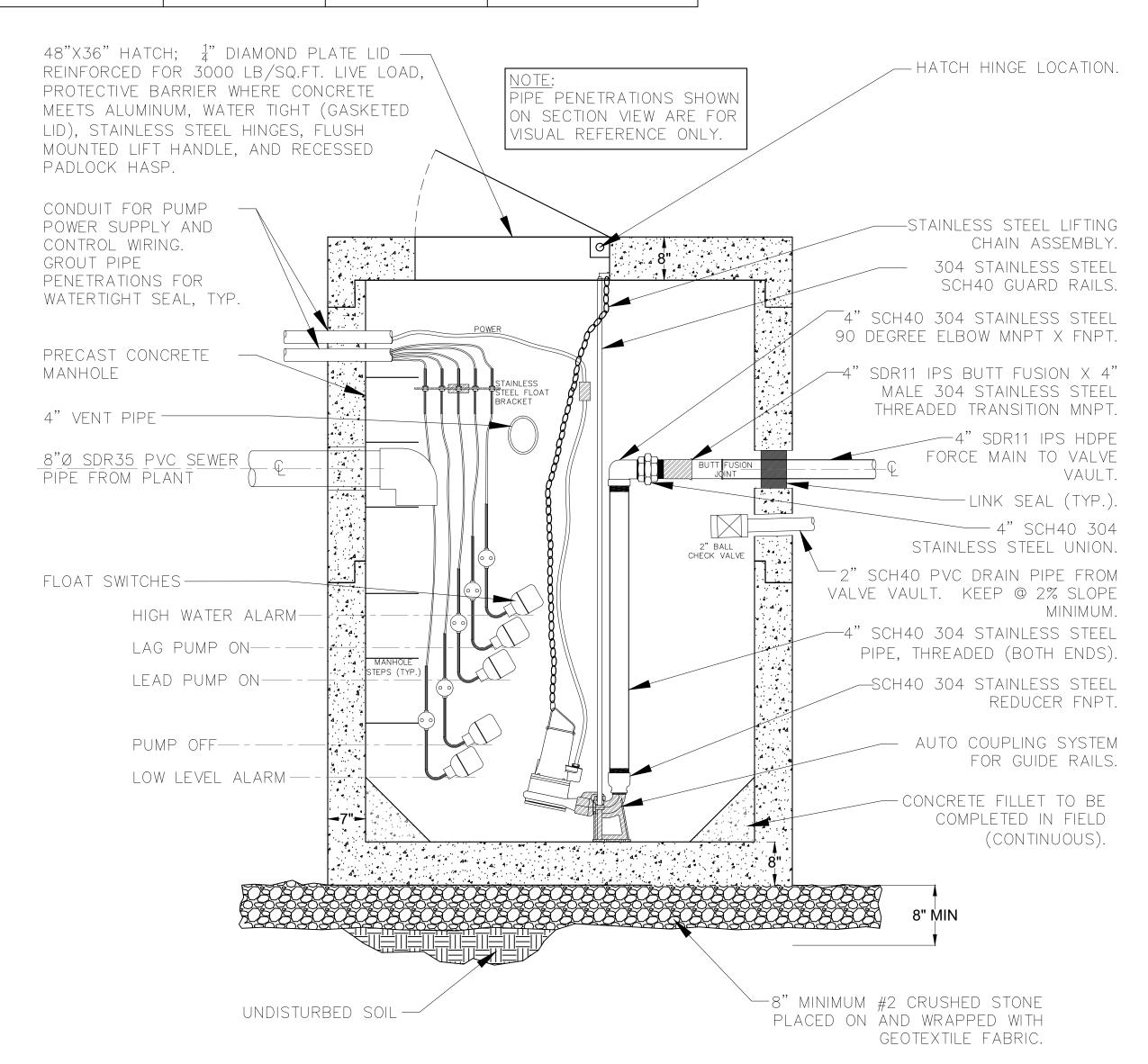
						PUMPING STATIC	N DESIGN CR	RITERIA						
PUMPING STATION	OVERALL DIMENSIONS	WETWELL DIMENSIONS	WETWELL HEIGHT	BOTTOM OF WETWELL	WETWELL CAPACITY	SUBMERSIBLE PUMP DESIGN CRITERIA	F.F.E./T.O.S. ELEVATION	GRAVITY SEWER INVERT IN ELEVATION	PS PIPING/VALVE SIZES	PS HEADER SIZE	FORCE MAIN OUT INV ELEVATION	FM TYPE/LENGTH	CALCULATED FM VELOCITY	NOTES
WATER PLANT	AS SHOWN	6'-0" DIAMETER	6.46 FEET	93.95	1080 GALLONS	120 GPM @ 30' TDH, FLYT 3069 SUBMERSIBLE PUMPS, 3290RPM, 2.7 HP, 208V, 3-PHASE	99.75	95.75 FROM WATER PLANT	4 INCH WALL CASTING, PLUG VALVES, AND CHECK VALVES	4" PIPING	96.00	4" DR 11 HDPE	3.72 FT/SEC	-

				PUMPING STA	TION PUMP SE	TPOINTS			
PUMPING STATION	BOTTOM OF WETWELL	LOW LEVEL ALARM	PUMP(S) OFF	LEAD PUMP ON	LAG PUMP ON	LAG (2) PUMP ON	HIGH WATER ALARM	GRAVITY SEWER INVERT IN ELEVATION	PRESSURE TRANSDUCER/FLOATS
WATER PLANT	93.95	95.45	95.95	96.95	97.45	NA	97.95	95.75 FROM WATER PLANT	FLOATS





SCALE: $\frac{3}{4}$ " TO 1'-0"



PUMP STATION SECTION A-A' SCALE: $\frac{3}{4}$ " TO 1'-0"

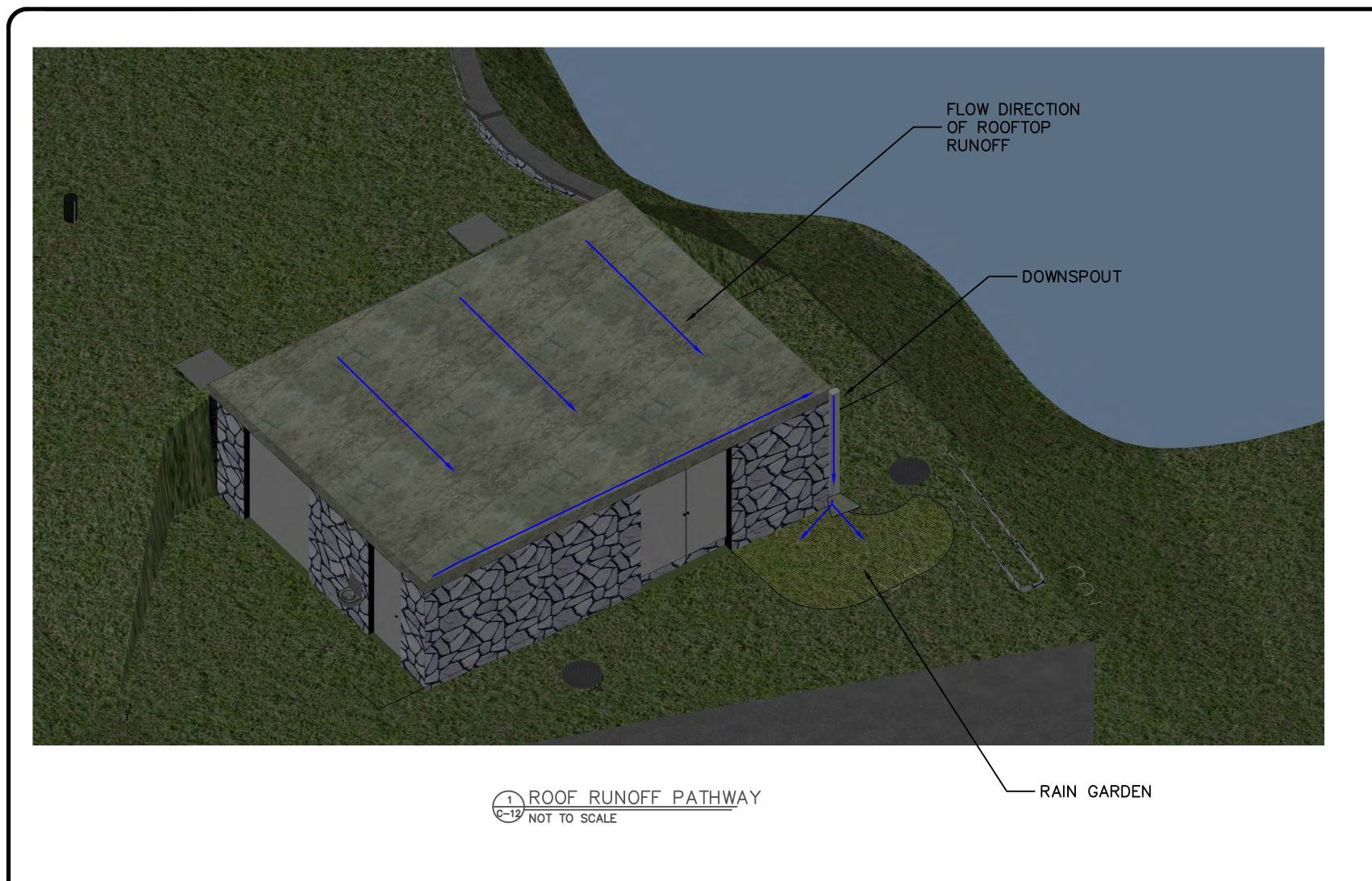
1. SEE PLAN VIEW FOR PIPE PENETRATION LOCATIONS.

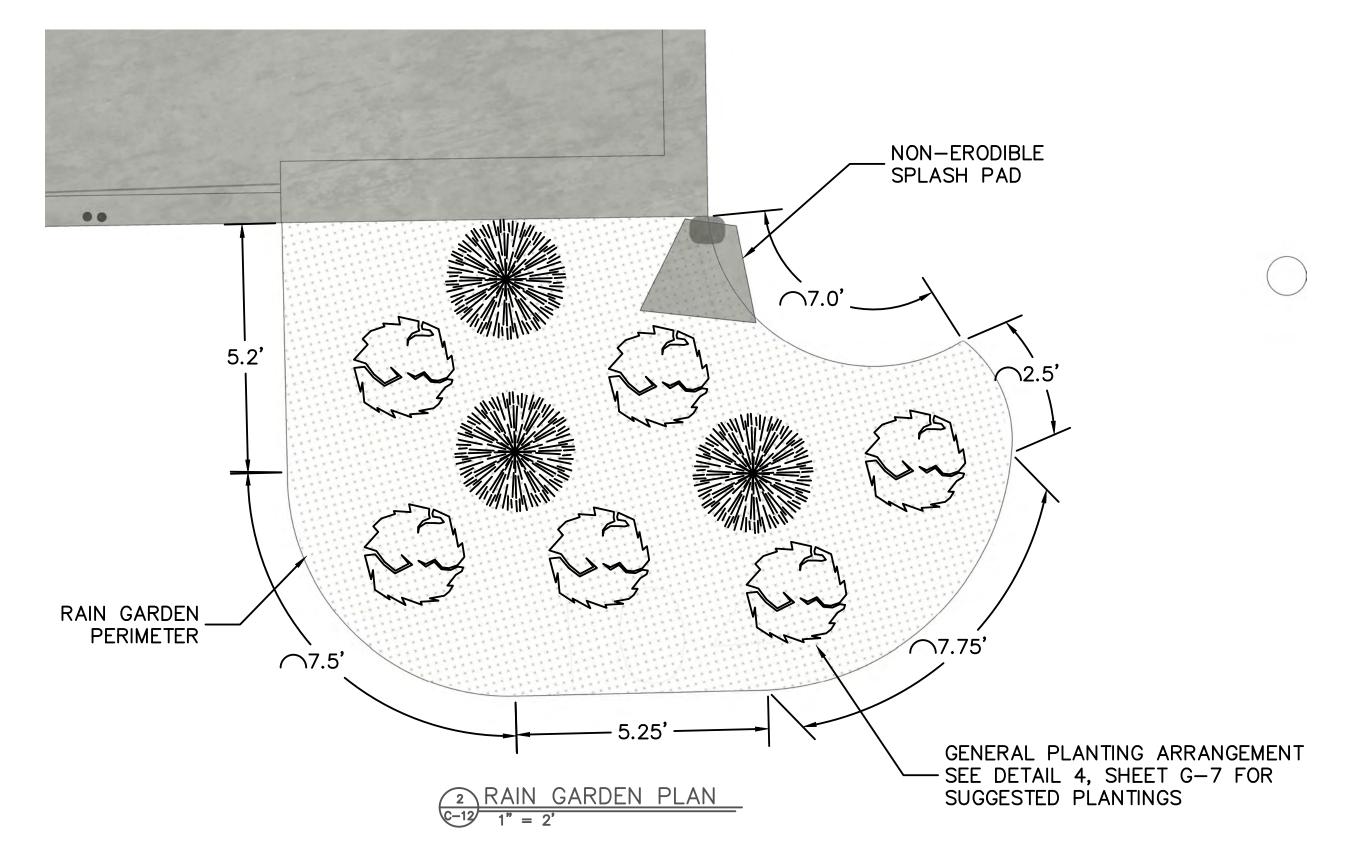
2. ALL ELECTRICAL WORK SHALL CONFORM TO THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE.

* 100

TOWN

PROPO





Water Quality Calculation

$$WQ_V = \frac{R_V \cdot P \cdot A}{12}$$

 $R_V = 0.05 + 0.009 \cdot I$

 $I=Percentage\ impervious\ area\ draining\ to\ site=100\%$

A = Area draining to practice

P = 90% Rainfall number = 1 in

$$WQ_V = 0.95 \cdot 1 \ in/12 \cdot 783 \ ft^2$$

 $WQ_V = 61 \ ft^3$

Storage Volume Calculation

 $WQ_V \le VSM + VDL + (DP \cdot ARG)$ $VSM = ARG \cdot DSM \cdot PSM$

 $VDL = ARG \cdot DDL \cdot PDL$

 $ARG = proposed rain garden surface area = 120 ft^2$

 $DSM = depth \ soil \ media = 12 \ inches = 1.0 \ ft$ $DDL = depth \ drainage \ layer = 8 \ inches = 0.667 \ ft$ $PSM = porosity \ of \ soil \ media = 0.20$

PDL = porosity of drainage layer = 0.40 $VSM = 122 ft^2 x 1.0 ft x 0.20 = 24 ft^3$

 $VDL = 122 ft^2 \times 0.667 ft \times 0.40 = 40 ft^3$ DP = ponding depth = 6 inches = 0.5 ft

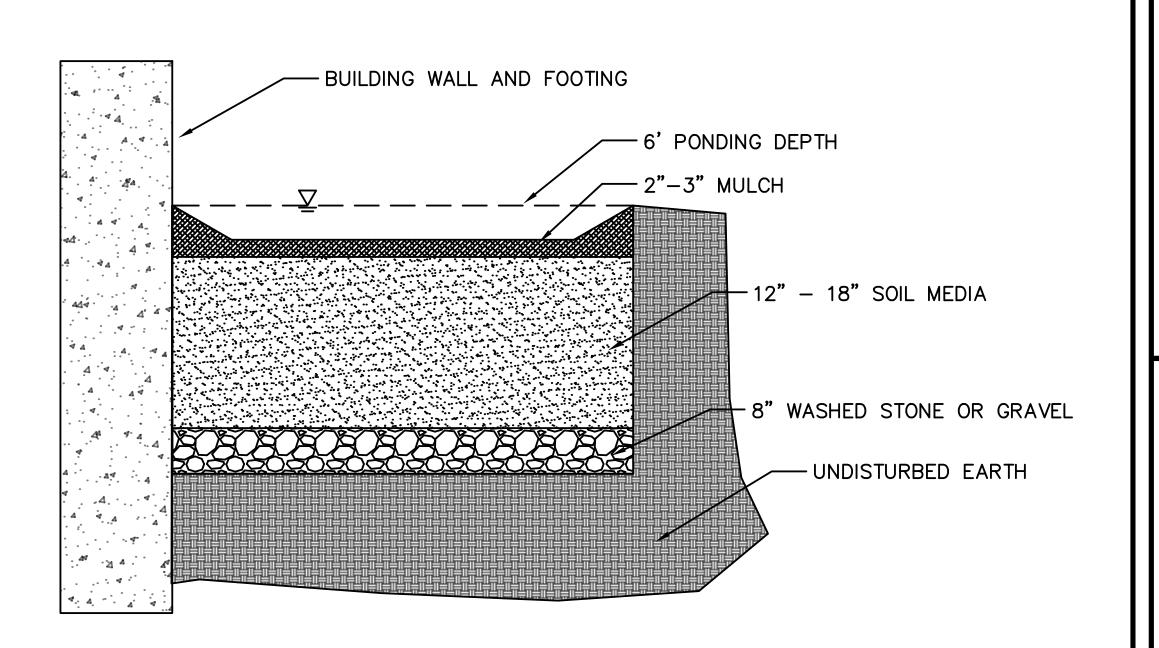
 $WQ_V \le 24 ft^3 + 40 ft^3 + (0.5 ft \cdot 122 ft^2)$

 $WQ_V \le 189 \, ft^3$

RUNOFF VOLUME CALCULATION NOT TO SCALE

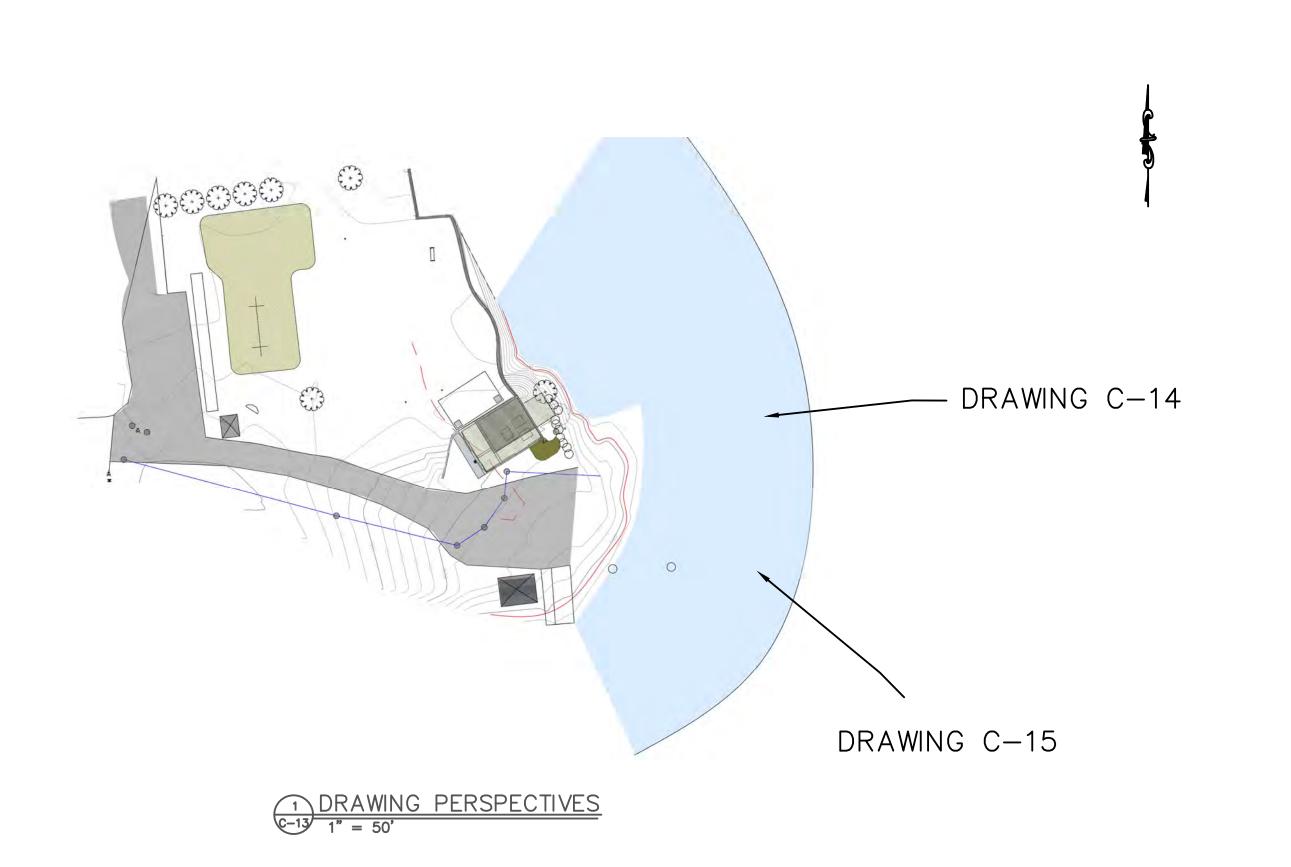
Shrubs	Herbaceous Plants
Witch Hazel	Cinnamon Fern
Hamemelis virginiana	Osmunda cinnamomea
Winterberry	Cutleaf Coneflower
Ilex verticillata	Rudbeckia laciniata
Arrowwood	Woolgrass
Viburnum dentatum	Scirpus cyperinus
Brook-side Alder	New England Aster
Alnus serrulata	Aster novae-angliae
Red-Osier Dogwood	Fox Sedge
Cornus stolonifera	Carex vulpinoidea
Sweet Pepperbush	Spotted Joe-Pye Weed
Clethra alnifolia	Eupatorium maculatum
Switch Grass	Great Blue Lobelia
Panicum virgatum	Lobelia siphatica
Wild Bergamot	Red Milkweed
Monarda fistulosa	Asclepias incarnate
*Adapted from NYSDM Bioretentic	on Specifications, Bannerman, Brooklyn Botanic Garden.

4 RAIN GARDEN PLANTING LIST C-12 NOT TO SCALE



5 TYPICAL RAIN GARDEN PROFILE
C-12 NOT TO SCALE

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1			Markon Raman Andrews			DRAWN BY:	RB	
	PROPOSED RAIN GARDEN	STATE OF NEW YORK	181201 102181	ANY LICENSEE WHO ALTERS HIS OR HER SEAL AND	WY LICENSEE WHO ALTERS THIS DOCUMENT IS REQUIRED BY LAW TO AFTIX HIS OR HER SEAL AND THE NOTATION "ALTERED BY" BY HIS OR HER	REVIEWED BY:	TS	3903 Main Street, Warrensburg, NY 12885. (P) 518.623.5500
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)		ESSEX COUNTY	50	MAUTHORIZED ALTERATION OF SECTION 7209 SUBDIVISI	UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VICLATION OF SECTION 7208 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW	SHEET: 1	13 OF 28	COPYRIGHT (C) CEDARWOOD ENGINEERING SERVICES PLLC ALL RIGHTS RESERVED









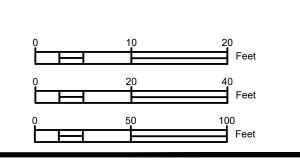
3 BUILDING FROM LAKE WITHOUT PLANTINGS

(C-13) 1" = 10"

BUILDING FROM LAKE WITHOUT PLANTINGS

1" = 10'

NOTES: PLANTING SHALL BE ON EARTHEN BERM WITH Thuja occidentalis (NORTHERN WHITE CEDAR — EVERGREEN) AND Juniperus communis (COMMON JUNIPER SHRUBS) PLANTINGS AS SHOWN. TREES TO BE PLANTED APPROXIMATELY 10 FEET ON CENTER. APPROXIMATE NUMBER OF TREES FOR SOUTHERN FACE OF STRUCTURE: 3.



OF TOWN







PROPOSED TREE SCREENING VIEW 1

NOT TO SCALE

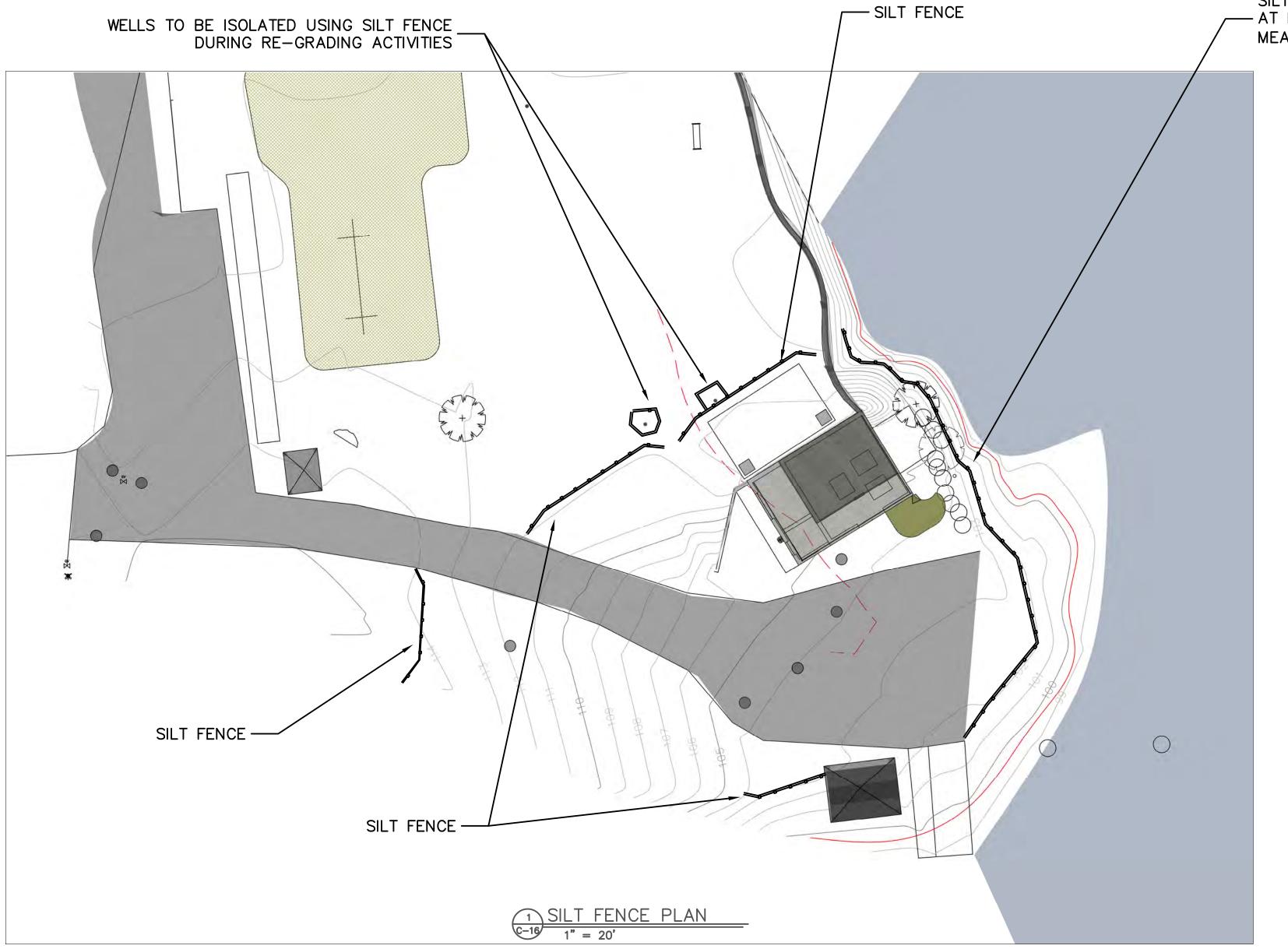
NOTES: PLANTING SHALL BE ON EARTHEN BERM WITH Thuja occidentalis (NORTHERN WHITE CEDAR — EVERGREEN) AND Juniperus communis (COMMON JUNIPER SHRUBS) PLANTINGS AS SHOWN. TREES TO BE PLANTED APPROXIMATELY 10 FEET ON CENTER. APPROXIMATE NUMBER OF TREES FOR SOUTHERN FACE OF STRUCTURE: 6. APPROXIMATE NUMBER OF TREES FOR EASTERN FACE OF STRUCTURE: 3.





NOTES: PLANTING SHALL BE ON EARTHEN BERM WITH Thuja occidentalis (NORTHERN WHITE CEDAR — EVERGREEN) AND Juniperus communis (COMMON JUNIPER SHRUBS) PLANTINGS AS SHOWN. TREES TO BE PLANTED APPROXIMATELY 10 FEET ON CENTER. APPROXIMATE NUMBER OF TREES FOR SOUTHERN FACE OF STRUCTURE: 3.

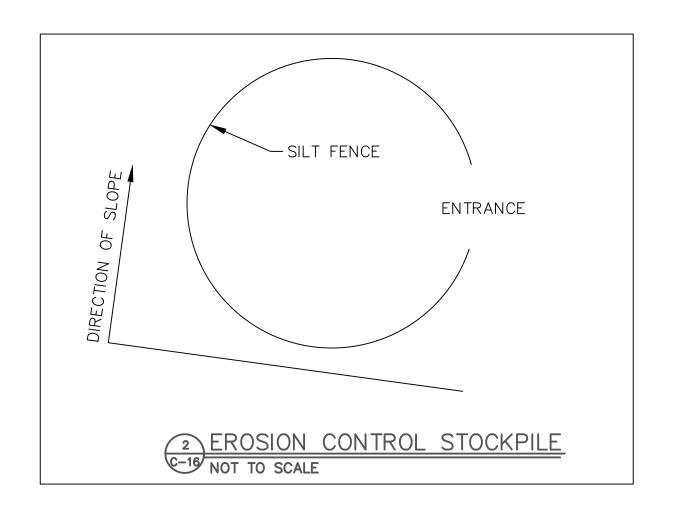
PROPOSED TREE SCREENING VIEW 2
NOT TO SCALE

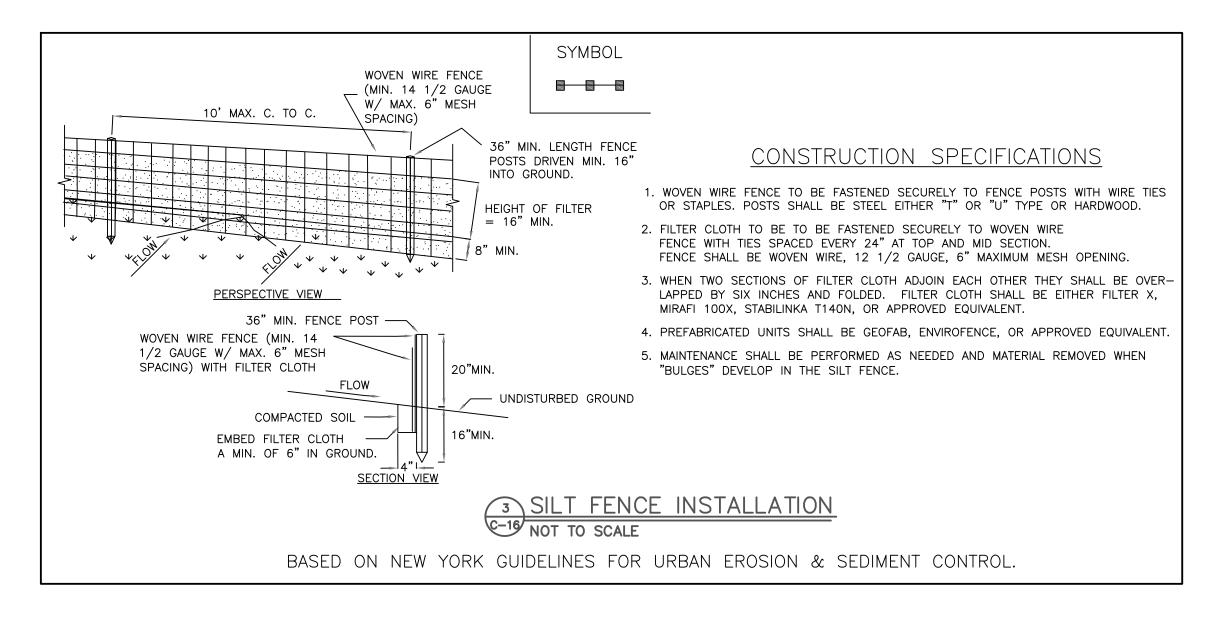


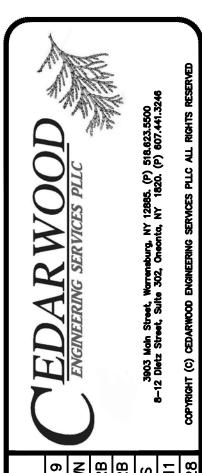
SILT FENCE TO BE INSTALLED

AT ELEVATIONS ABOVE THE

MEAN HIGH WATER MARK OF 99.8'







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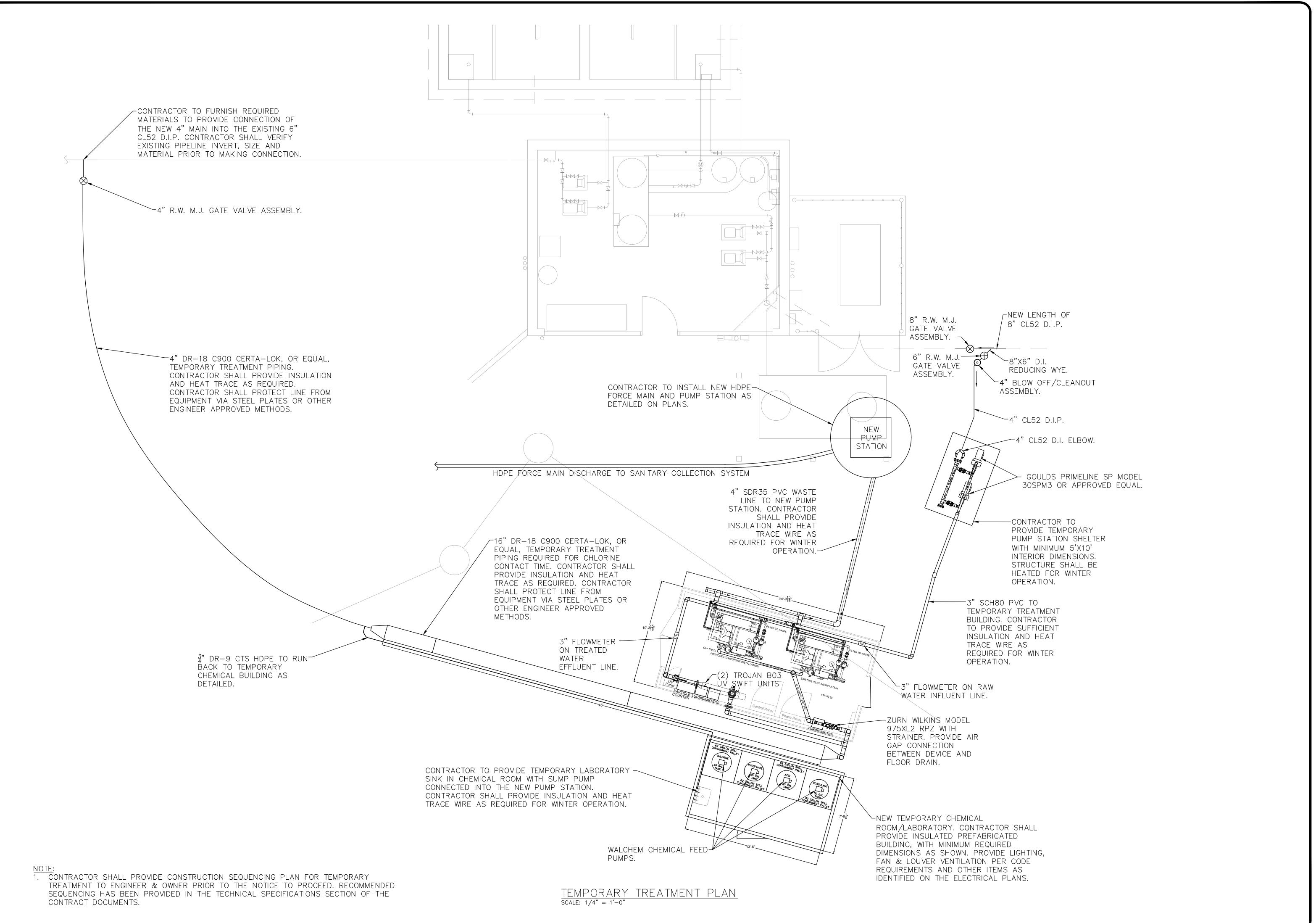


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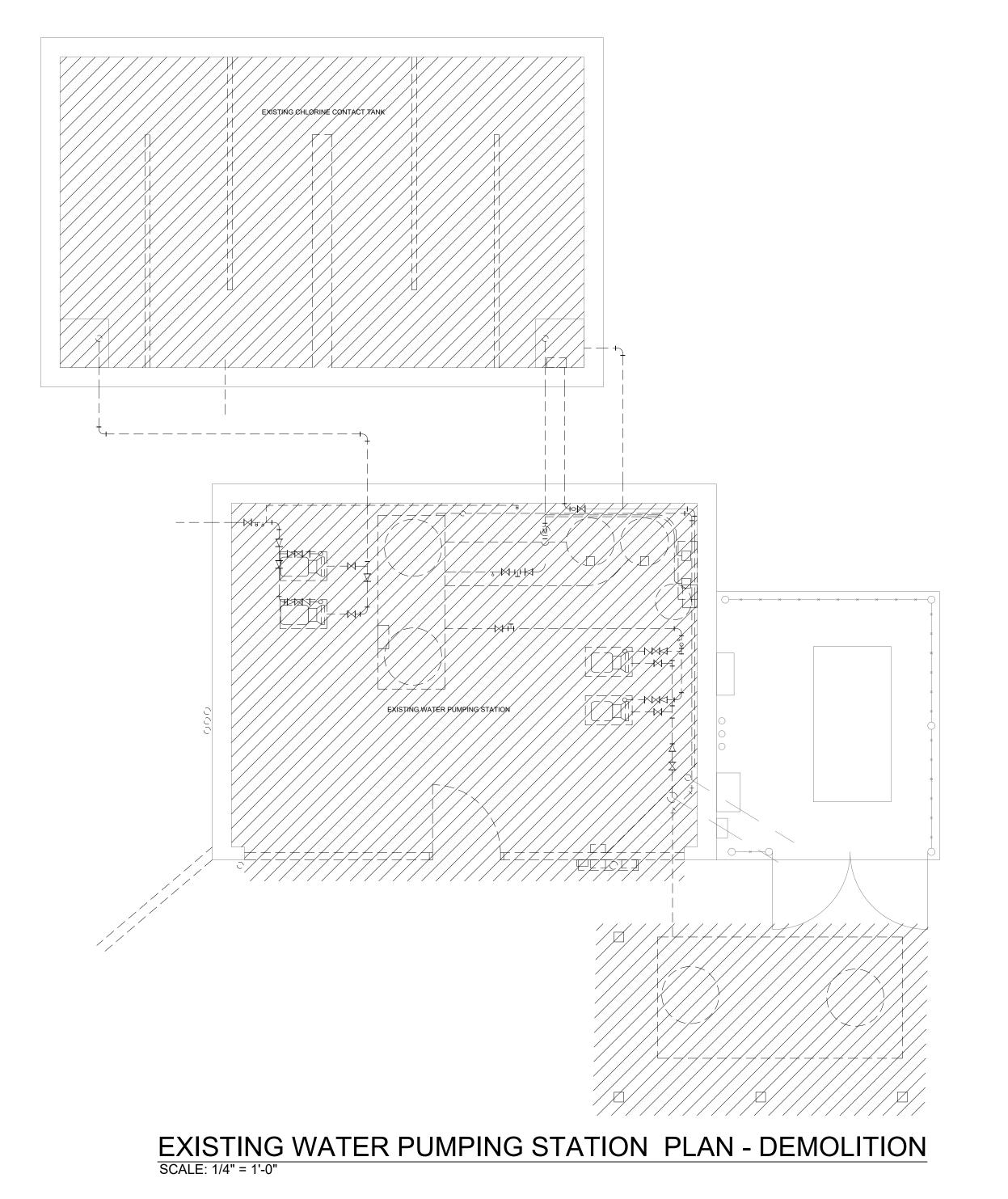
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DESCRIPTION:	1 1/10/20 DOH REVIEW COMMENTS DATE:				any licensee who alters this document is required by Law to Affix his or her seal and the notation "altered by" by his or her	SIGNATURE AND SPECIFIC DESCRIPTION OF THE ALTERATIONS.		NAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW	
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DEMOLITION NOTES:

ABANDON IN PLACE.

- DISCONNECT ELECTRICAL SERVICE TO BUILDING.
 DISCONNECT AND REMOVE ALL PROCESS EQUIPMENT, PUMPS, PIPING, ELECTRICAL FIXTURES, ELECTRICAL/EQUIPMENT PANELS AND ALL LOOSE EQUIPMENT.
- 3. REMOVE EXISTING EXTERIOR STUD WALL, SIDING, CONCRETE ROOF, STEEL ROOF BEAMS AND CONCRETE FLOOR. ONLY CONCRETE WALLS WITH FOOTINGS ARE TO REMAIN.
- REMOVE EXISTING D.E. TANK IN ITS ENTIRETY.
 REMOVE EXISTING WALLS AND PIPING WITHIN THE EXISTING
- 5. REMOVE EXISTING WALLS AND PIPING WITHIN THE EXISTING CHLORINE CONTACT TANK. BREAK UP CONCRETE FLOOR TO FACILITATE DRAINAGE.6. FLOWABLE FILL EXISTING 8" D.I.P. INFLUENT LINE TO BE

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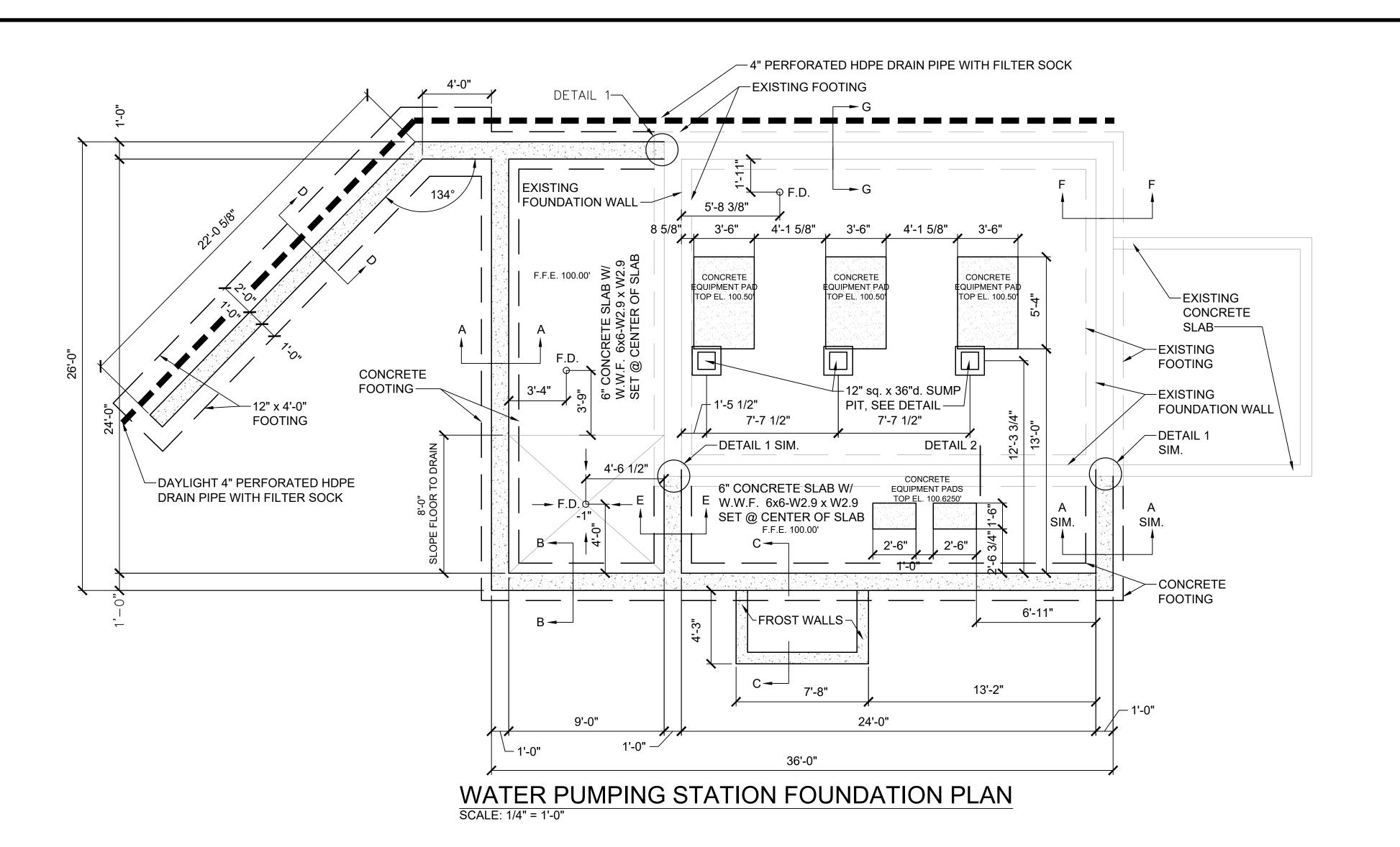
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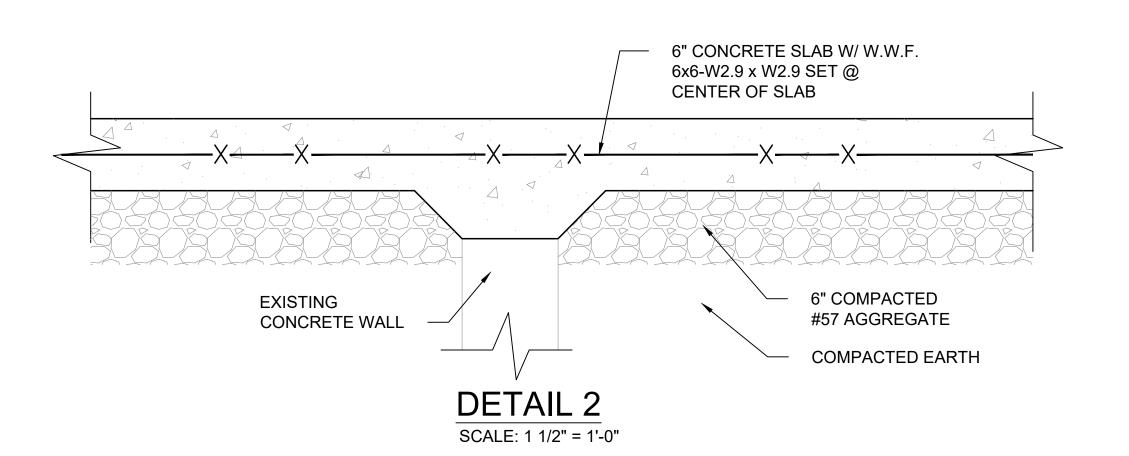
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GENERAL NOTES:

- CONCRETE FLOOR FINISH TYPE 2 FLOATED.FORM WORK SHALL NOT BE REMOVED UNTIL CONCRETE HAS
- REACH 80% OF ITS SPECIFIED STRENGTH (10 DAYS MINIMUM)
 ALLOW CONCRETE FOOTING TO CURE A MINIMUM OF 7 DAYS
 PRIOR TO POURING WALL ABOVE.

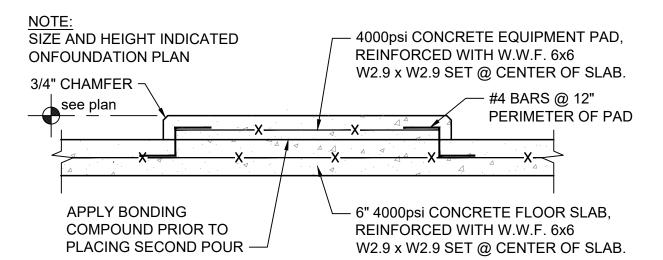
CONCRETE MIX DESIGN:

- FLOOR/EQUIPMENT PADS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000psi IN 28 DAYS. AGGREGATE MIX OF 1/2"
- NOMINAL MAXIMUM AGGREGATE SIZE. AIR CONTENT:5% ± 1.5%. FOOTINGS AND WALL SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000psi IN 28 DAYS. AGGREGATE MIX OF 3/4"
- NOMINAL MAXIMUM AGGREGATE SIZE. AIR CONTENT: 6% ± 1.5%.

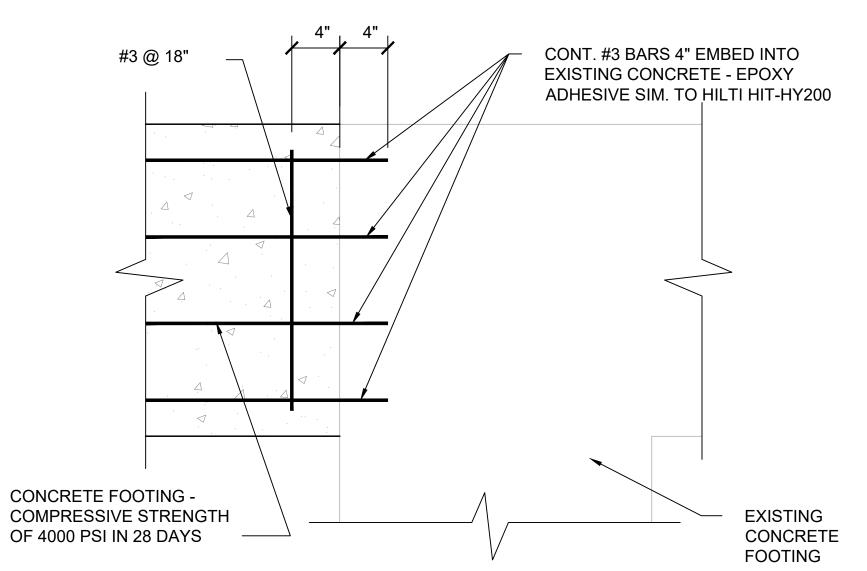
 SIDEWALK/ENTRANCE PAD & FROST WALLS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3500psi WITH FIBERGLASS FIBERS IN 28 DAYS. AGGREGATE MIX OF 3/4" NOMINAL MAXIMUM AGGREGATE
- SIZE. AIR CONTENT: 6% ± 1.5%. SLUMP LIMIT: 4 INCHES, PLUS/MINUS 1 INCH.

REINFORCEMENT NOTES:

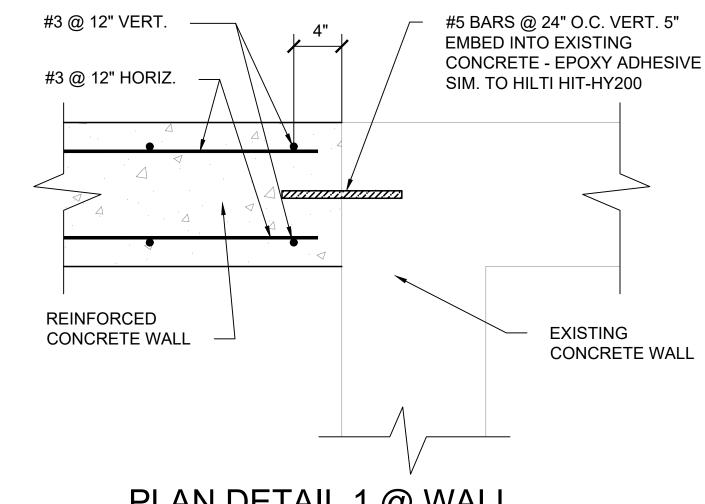
- BAR REINFORCEMENT SHALL BE ASTM A615, GRADE 60. INSTALL REINFORCEMENT WITH COVERAGE AS SHOWN.
- MESH REINFORCEMENT SHALL BE ASTM A185 AND A82.
- ALL SPLICES IN BAR REINFORCEMENT SHALL BE 30" MINIMUM WITH NO MORE THAN 50% OF REINFORCEMENT TO BE SPLICED AT SAME LOCATION, SPLICES SHALL BE STAGGERED.



TYPICAL EQUIPMENT PAD DETAIL SCALE: 3/4" = 1'-0"

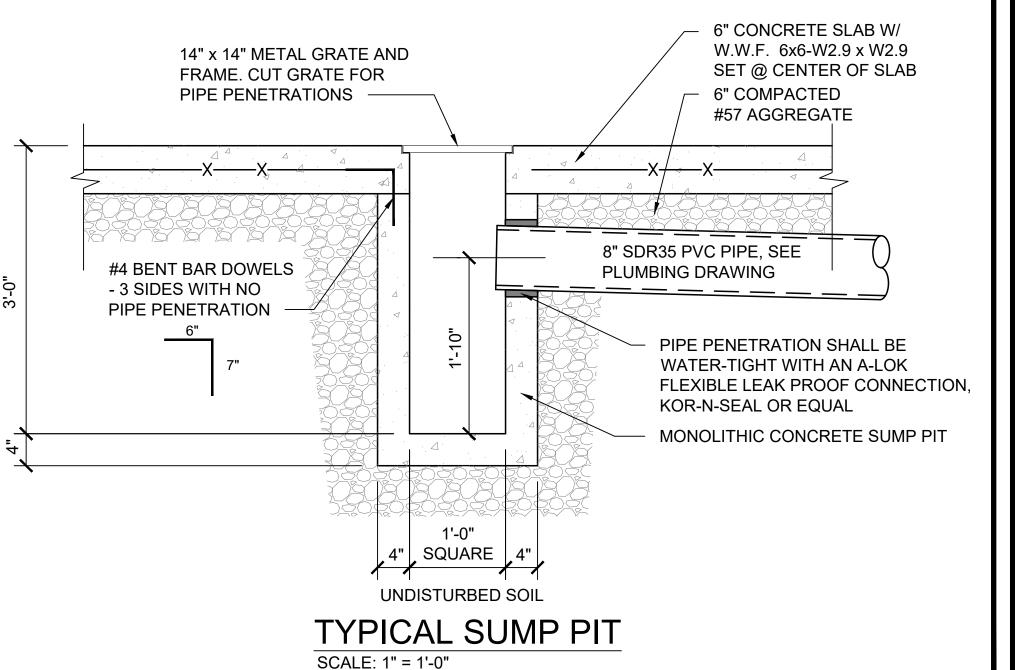


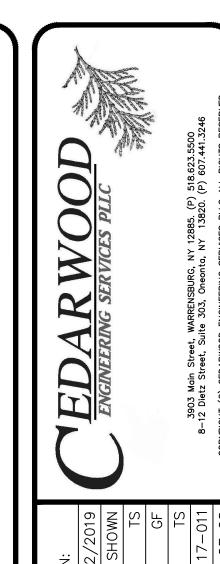
PLAN DETAIL 1 @ FOOTING SCALE: 1 1/2" = 1'-0"



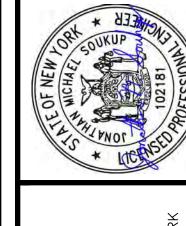
PLAN DETAIL 1 @ WALL

SCALE: 1 1/2" = 1'-0"





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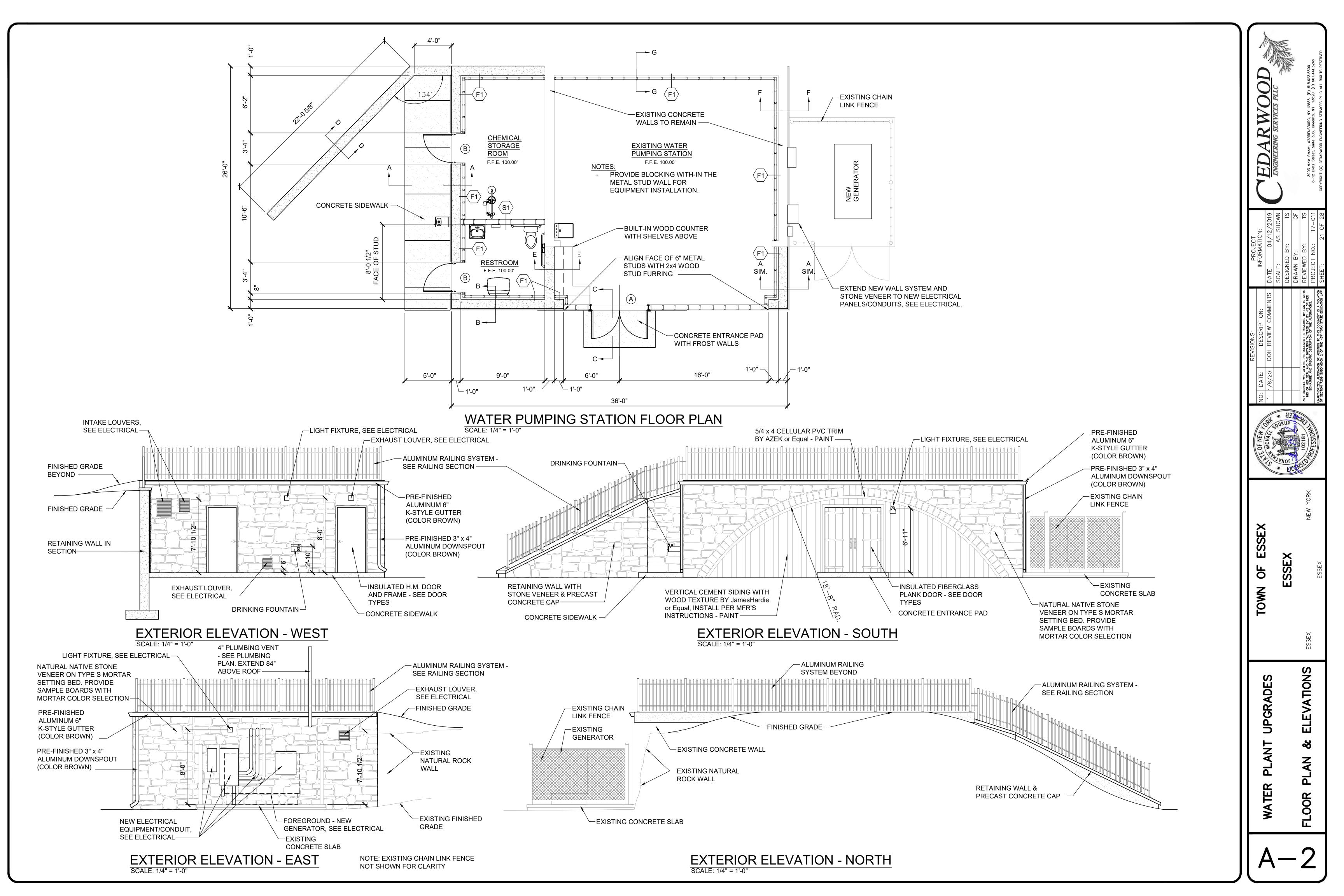


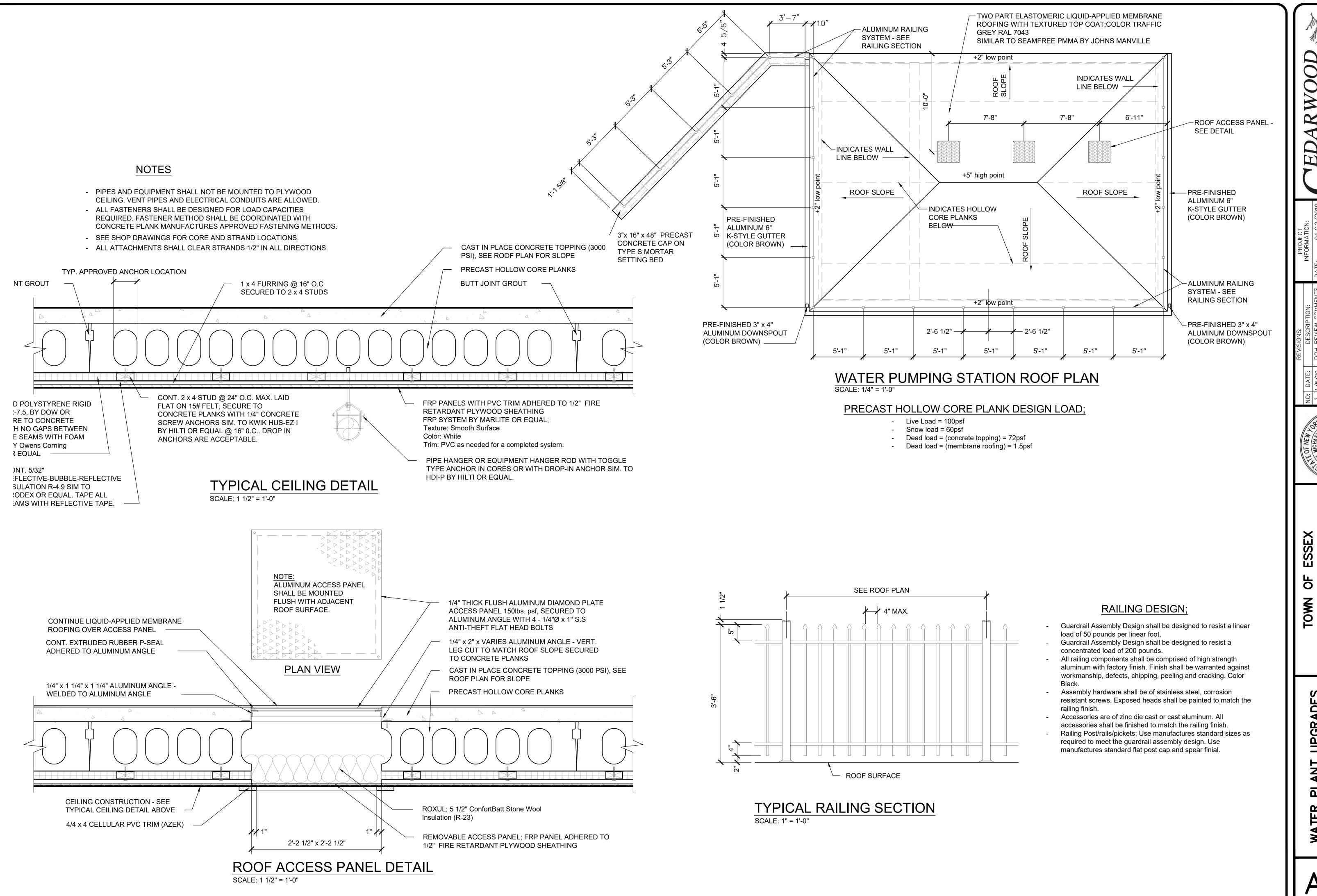
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FOUNDATION PLAN

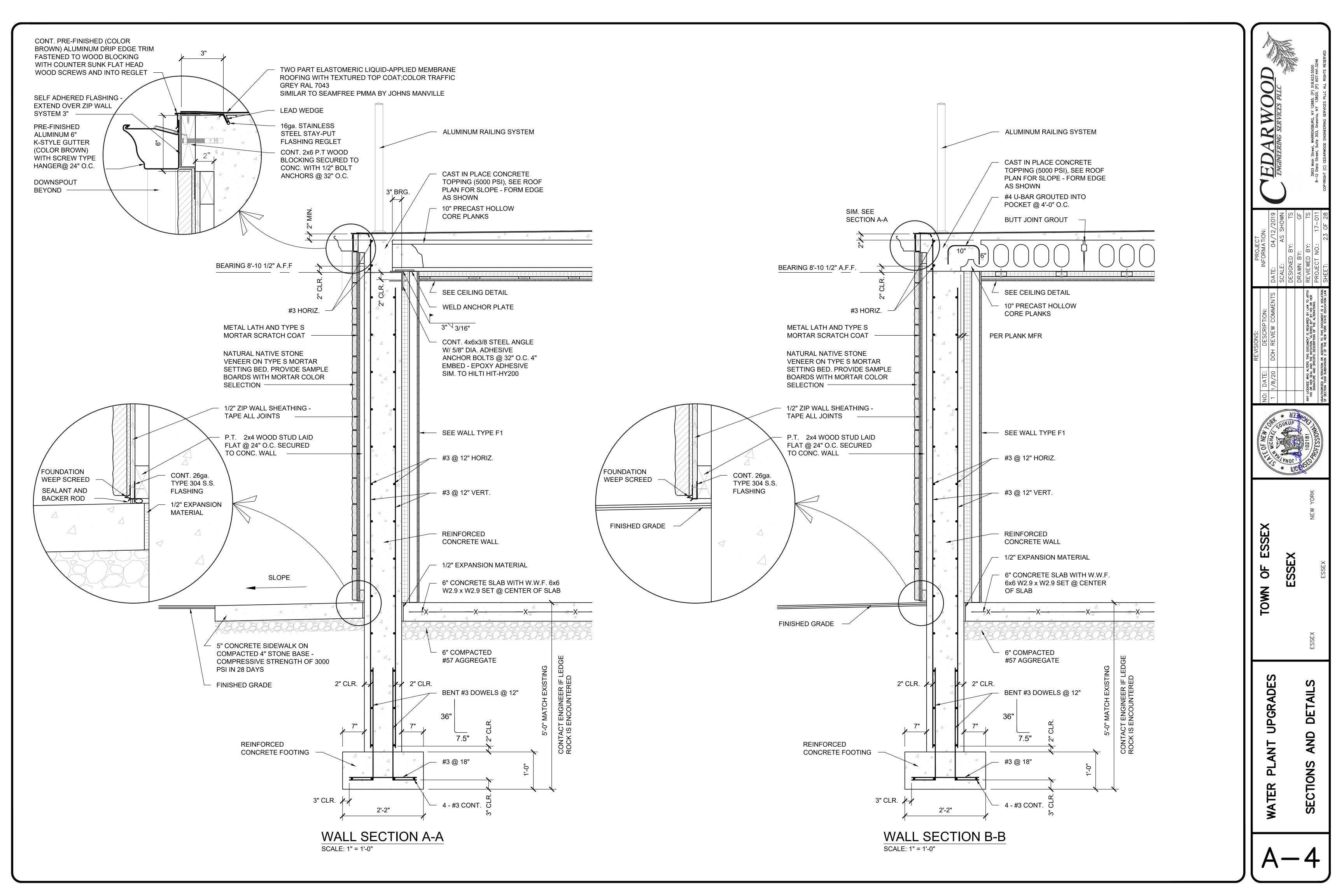
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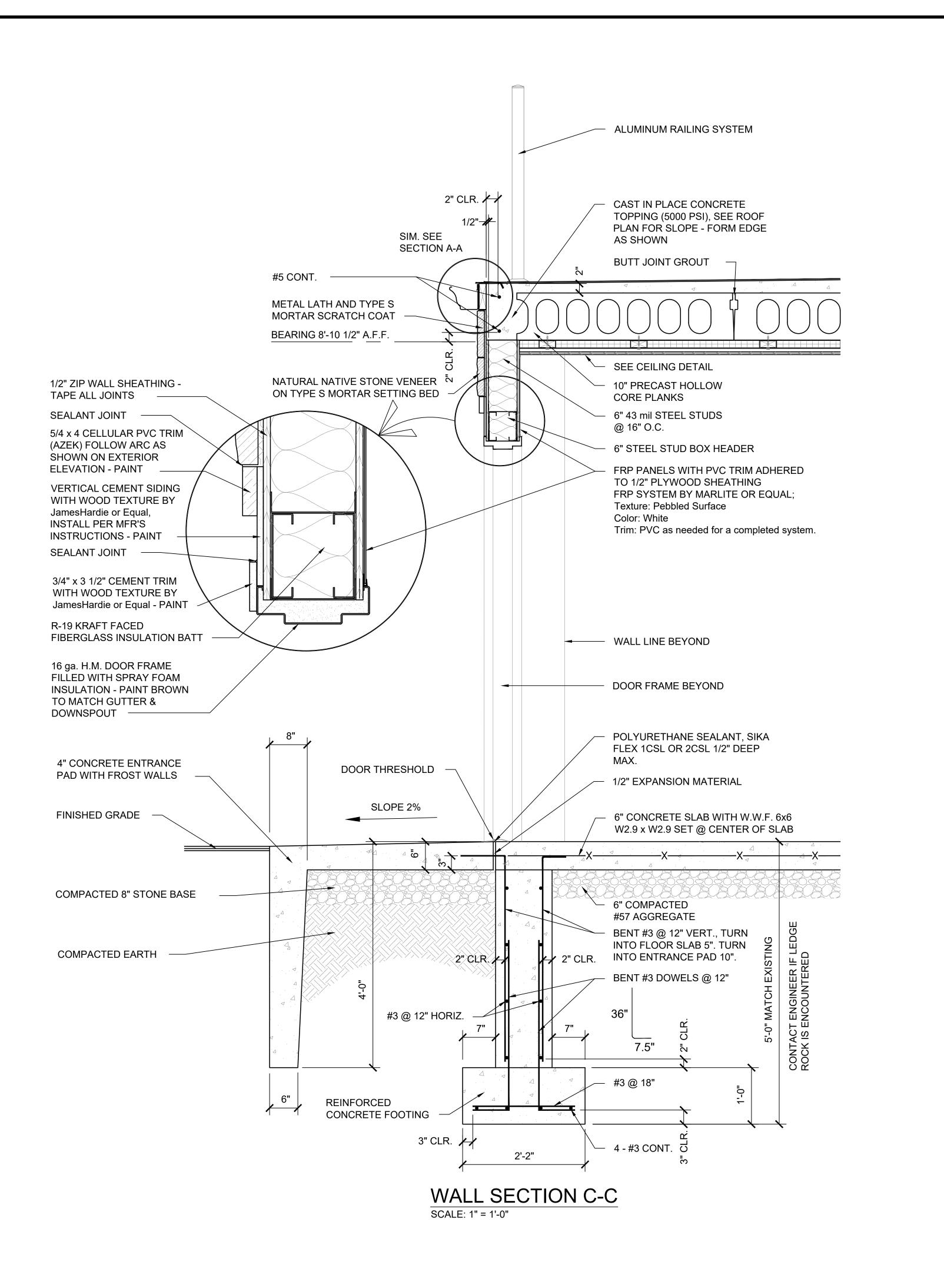


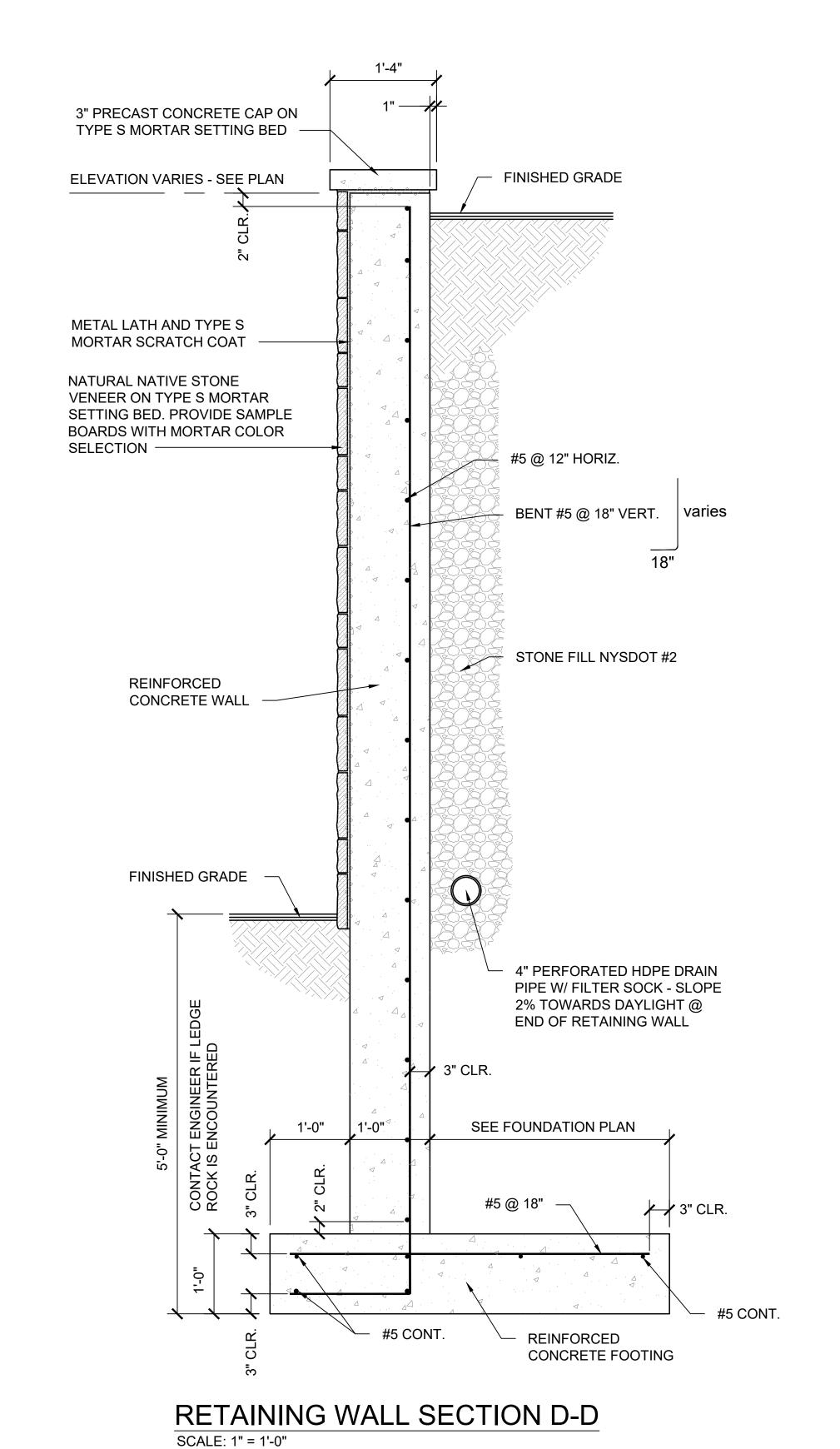


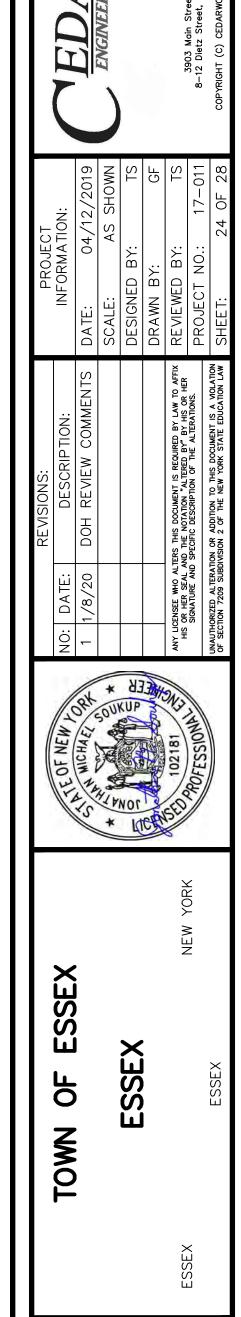
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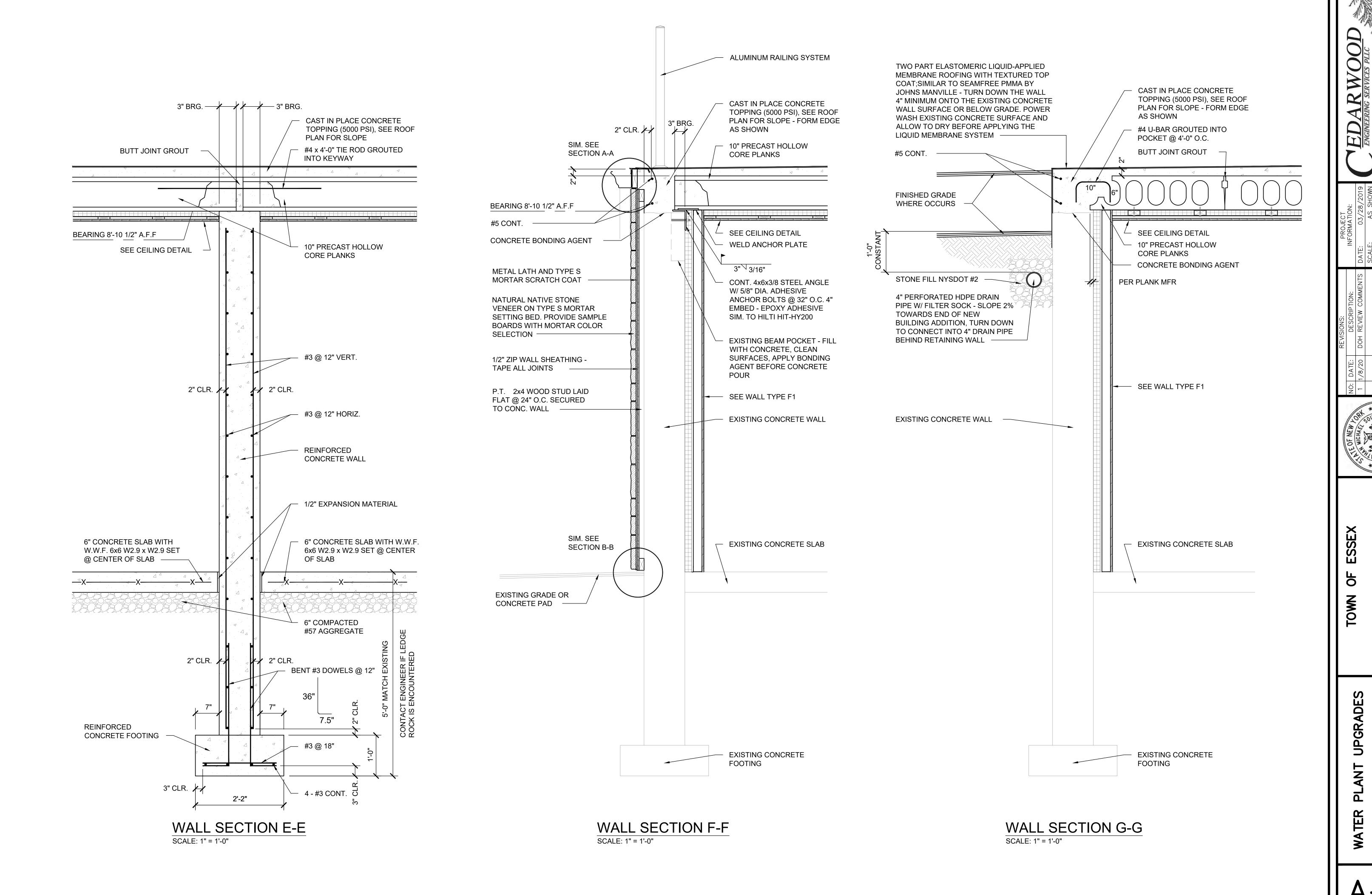
DETAILS











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1'-6" 9 1'-6" 10-110-111-6"

RESTROOM LAYOUT

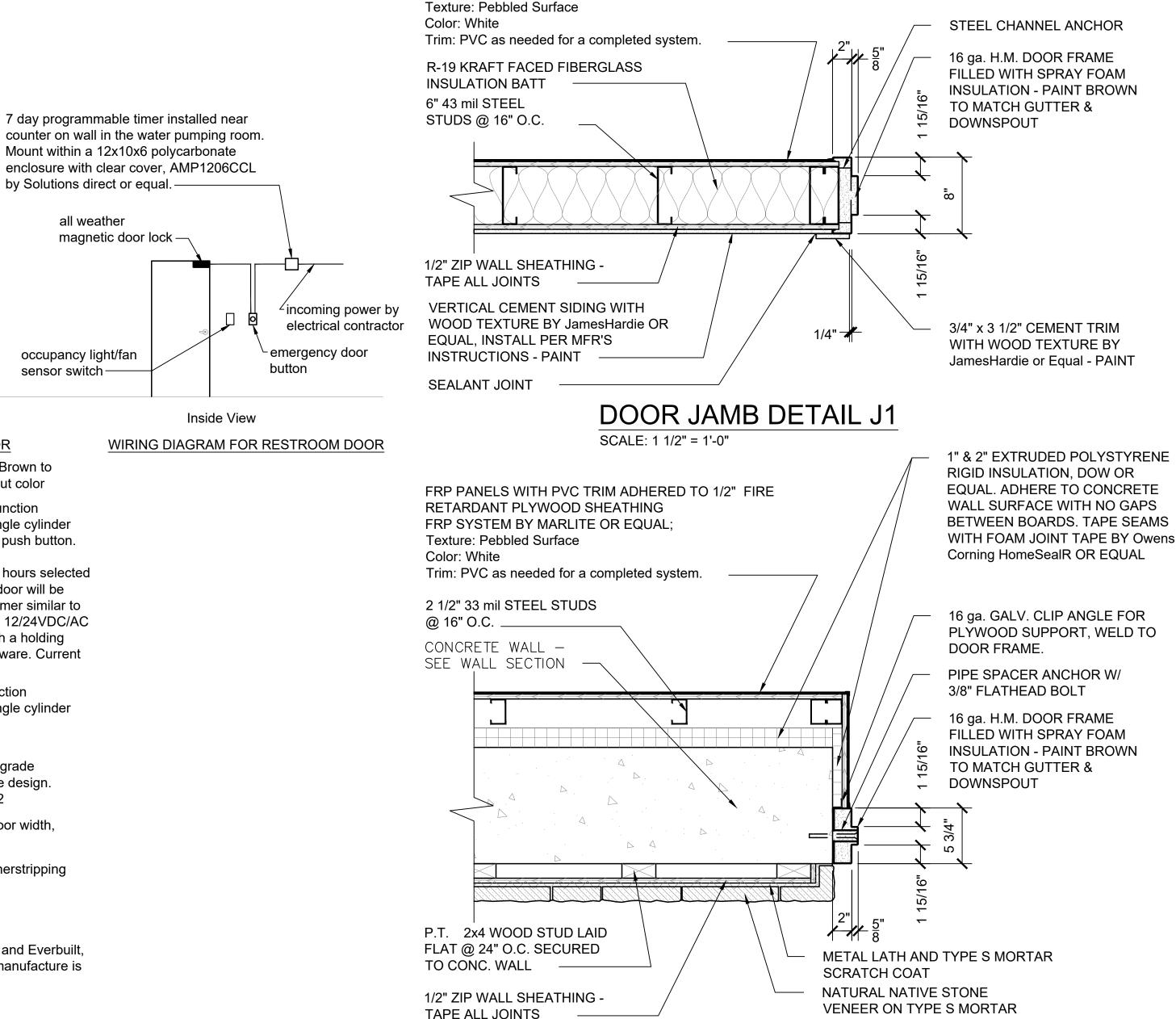
NOTES:

- PROVIDE BLOCKING WITH-IN THE METAL STUD WALL FOR EQUIPMENT INSTALLATION.
- SEE FOUNDATION FOR FLOOR SLOPE TO FLOOR DRAIN.

EQUIPMENT SCHEDULE

- 1 BOBRICK B-262 OR EQUAL; Surface mounted stainless steel paper towel dispenser.
- 2 BOBRICK B-5806X36 OR EQUAL; 18ga. 1 1/4" dia. type 304 satin-finish stainless steel tubing with concealed mounting flange. Mounting height 33"-36" a.f.f.
- 3 BOBRICK B-5806X42 OR EQUAL; 18ga. 1 1/4" dia. type 304 satin-finish stainless steel tubing with concealed mounting flange. Mounting height 33"-36" a f f
- BOBRICK B-274 OR EQUAL;
 Toilet tissue dispenser for two rolls. Cast aluminum, satin finish and plastic spindles with concealed locking device; theft resistant.
- 5 BOBRICK B-165 1824 OR EQUAL;
 18"w. x 24"h. one-piece channel frame.
 type 403 stainless steel with
 bright-polished finish and mitered corners.
 No. 1 quality 1/4" glass mirror with galv.
 steel back. Theft resistant mounting.
 Mounting height 40" bottom of frame to fin.
 flr.. center on sink.

- 6 AMERICAN STANDARD 0356.028.020 OR EQUAL; Lucerne wall mounted sink (ADA compliant - front rim 34" a.f.f. and have 27" min knee clearance), 4" centerset, 1 1/4" trap, vitreous china color white.
 - AMERICAN STANDARD 1340.225.002 OR EQUAL; Metering 4 inch centerset faucet, 1.0 gpm (ADA compliant), finish: polished chrome.
- (7) AMERICAN STANDARD 2467.016.020 OR EQUAL; Cadet right height elongated pressure assisted toilet 1.6gpf (ADA compliant), vitreous china color white. Bowl rim height 16 1/2".
- 8 FLOOR DRAIN; See Plumbing Plan
- (9) GUARDIAN G1950 OR EQUAL; SAFETY STATION with EYE/FACE WASH, S.S. BOWL
- (10) MUSTEE #21F OR EQUAL;
- 18w." x 24"d. x 13"deep plastic single laundry tub sink with legs. Impact and chemical resistant 1-piece molded tub with molded 1.5" drain for standard P-Trap. Potable hot/cold water 2 hole, 4 inch centerset laundry faucet with double lever handles, chrome, by PROFLO PFWSC1120CP or equal. Additional holes to be drilled for treated and raw water faucets, 1 hole, single handle deckmount kitchen faucet, chrome, by PROFLO PFX300 or equal. Provide chrome drain and 1.5" p-trap assembly.
- (1) KOALA KARE KB200-01 GREY OR EQUAL; Horizontal wall mounted baby changing station. Mounting and height per manufactures recommendations.
- ELKAY LK4593 OR EQUAL;
 Outdoor stone fountain, wall mount, non-filtered, non-refrigerated.
 Mount rim 34" above concrete sidewalk elevation.



SETTING BED. PROVIDE SAMPLE BOARDS WITH MORTAR COLOR

SELECTION

DOOR JAMB DETAIL J2

SCALE: 1 1/2" = 1'-0"

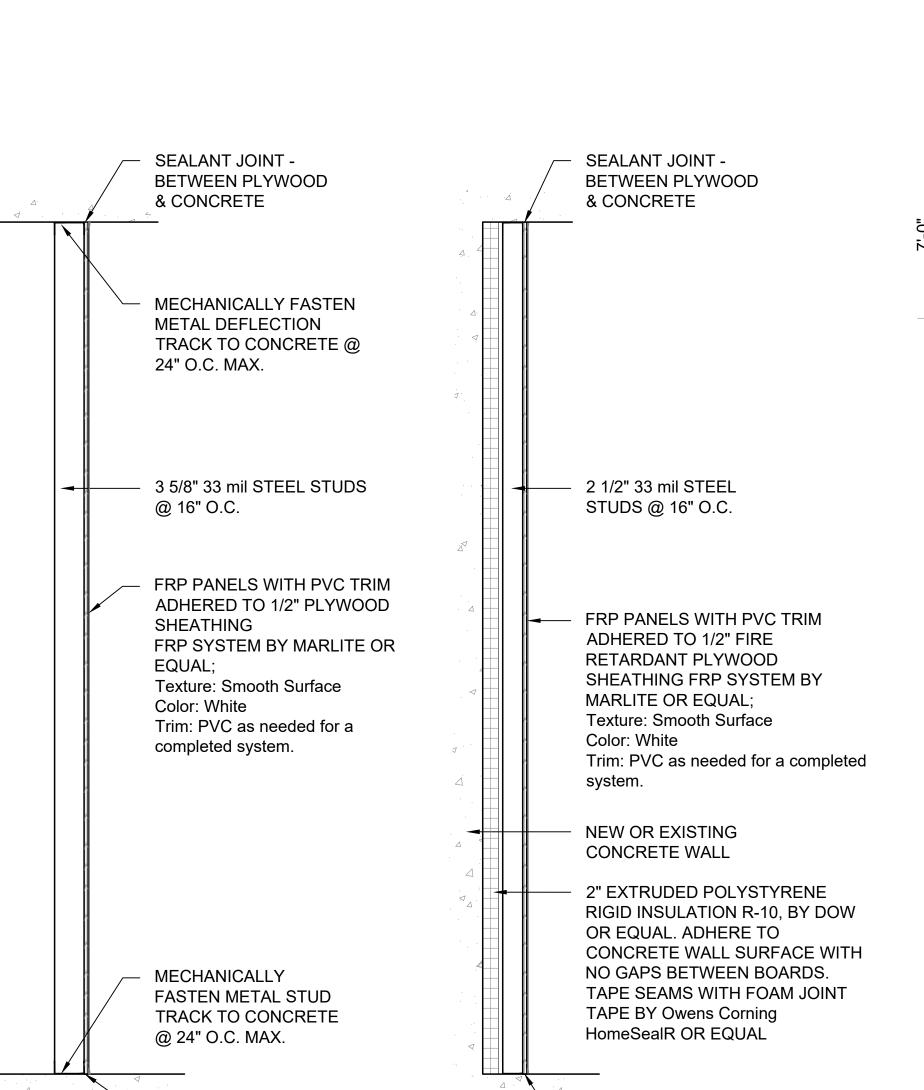
FRP PANELS WITH PVC TRIM ADHERED TO 1/2" FIRE

RETARDANT PLYWOOD SHEATHING FRP SYSTEM BY MARLITE OR EQUAL;

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ADES TYPES



SEALANT JOINT -

& CONCRETE

BETWEEN PLYWOOD

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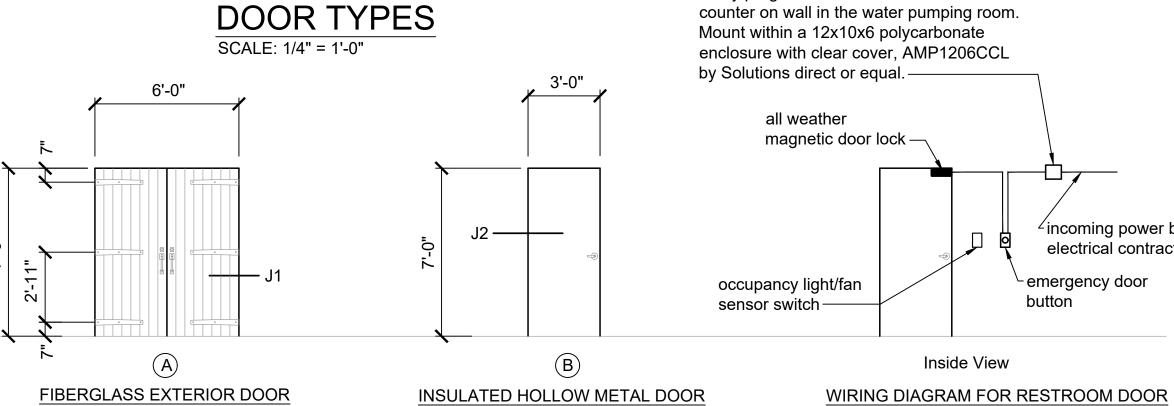
WALL TYPES

SCALE: 1" = 1'-0"

SEALANT JOINT -

& CONCRETE

BETWEEN PLYWOOD



- Plank Style Door, Sim to Pella Architectural Series - 1 3/4" thick solid panel with woodgrain texture
- Right hand active door; Kwikset -Tavaris single cylinder handle set.
- Model: #800TVH LIP 11P SMT
 Finish: Venetian Bronze
 Function: Handleset with single
- cylinder deadbolt.Interior thumb turn Single Sided
- Deadbolt; Kwikset
- Model: #663 11PFinish: Venetian Bronze
- Interior door lever Passage Lever;
- Model: #720VDL 11P
- Finish: Venetian Bronze

Kwikset

- Left hand inactive/dummy door; Kwikset -Tavaris inactive/dummy cylinder handle set.
- Model: #802TVH LIP 11P
- Finish: Venetian BronzeFunction: Inactive/dummy Handleset and

Finish: Dark Bronze

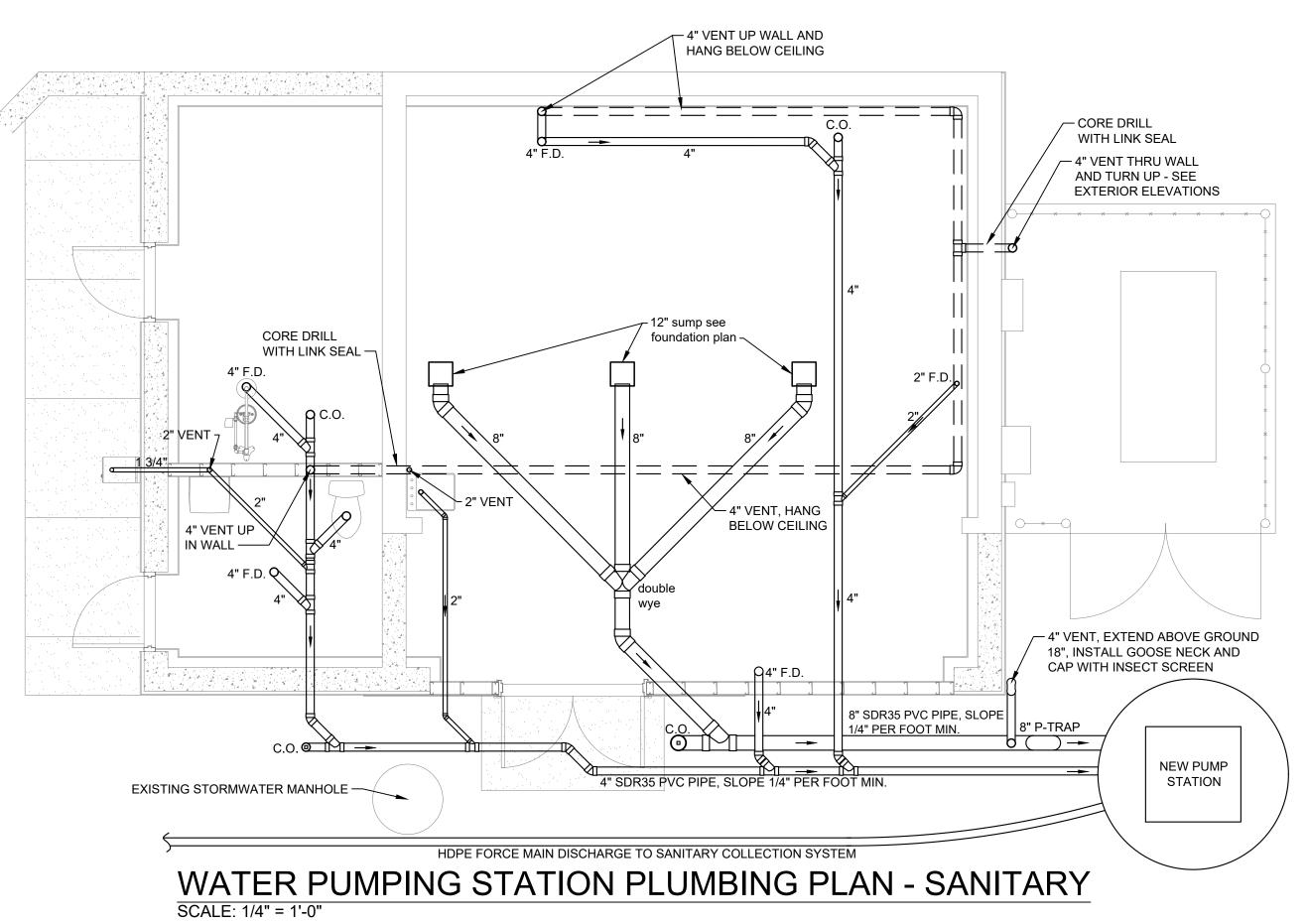
- Everbuilt 4 1/2 x 4 1/2 commercial grade door hinge, five knuckle full mortise design.
- door hinge, five knuckle full mortise design.
 Oil-rubbed Bronze finish, Model #20422
 Hand Forged Distressed Iron Straps, 3 per
- door, Powder Coated Flat Black, 1/4" x 2"to 3" x 24", fasten with 3 wood screws.
 Aluminum Threshold, 5" x 1/2" x door width,
- Provide and install perimeter weatherstripping

- 1 3/4" thick flush style door paint Brown to match pre-finished gutter/downspout color
- RESTROOM Lockset; Restroom functionKwikset Kingston 756KNL-26D, single cylinder
- keyed entry door lever and interior push button.
 Finish: Satin Chrome
- Door shall be operable only during hours selected by the town of Essex, other times door will be locked by a 7 day programmable timer similar to the DTM-9 by EMX Industries,Inc., 12/24VDC/AC
 All weather magnetic door lock with a holding force of 600lbs and mounting hardware. Current draw and voltage 12/24VDC.
- STORAGE Lockset; Restroom functionKwikset Kingston 781KNL-26D, single cylinder
- keyed entry door lever.Finish: Satin Chrome
- Everbuilt 4 1/2 x 4 1/2 commercial grade door hinge, five knuckle full mortise design. Satin Chrome finish, Model #20442
- Aluminum Threshold, 5" x 1/2" x door width, Finish: Milled

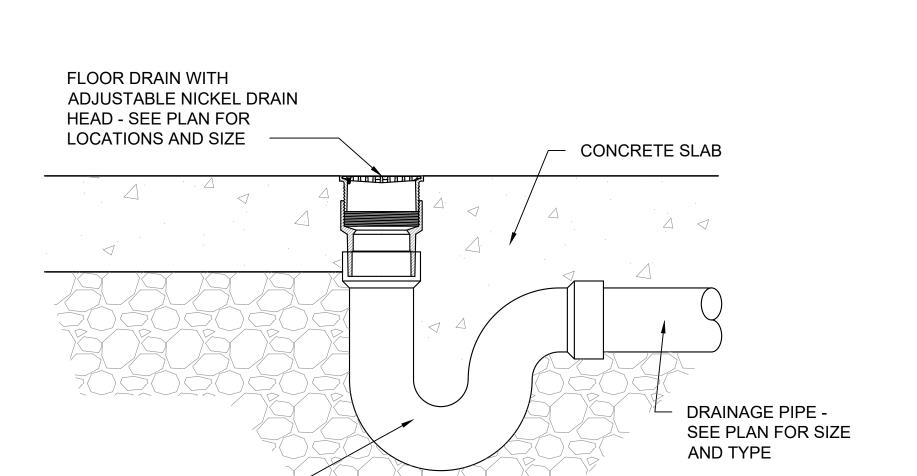
Provide and install perimeter weatherstripping

HARDWARE NOTE:

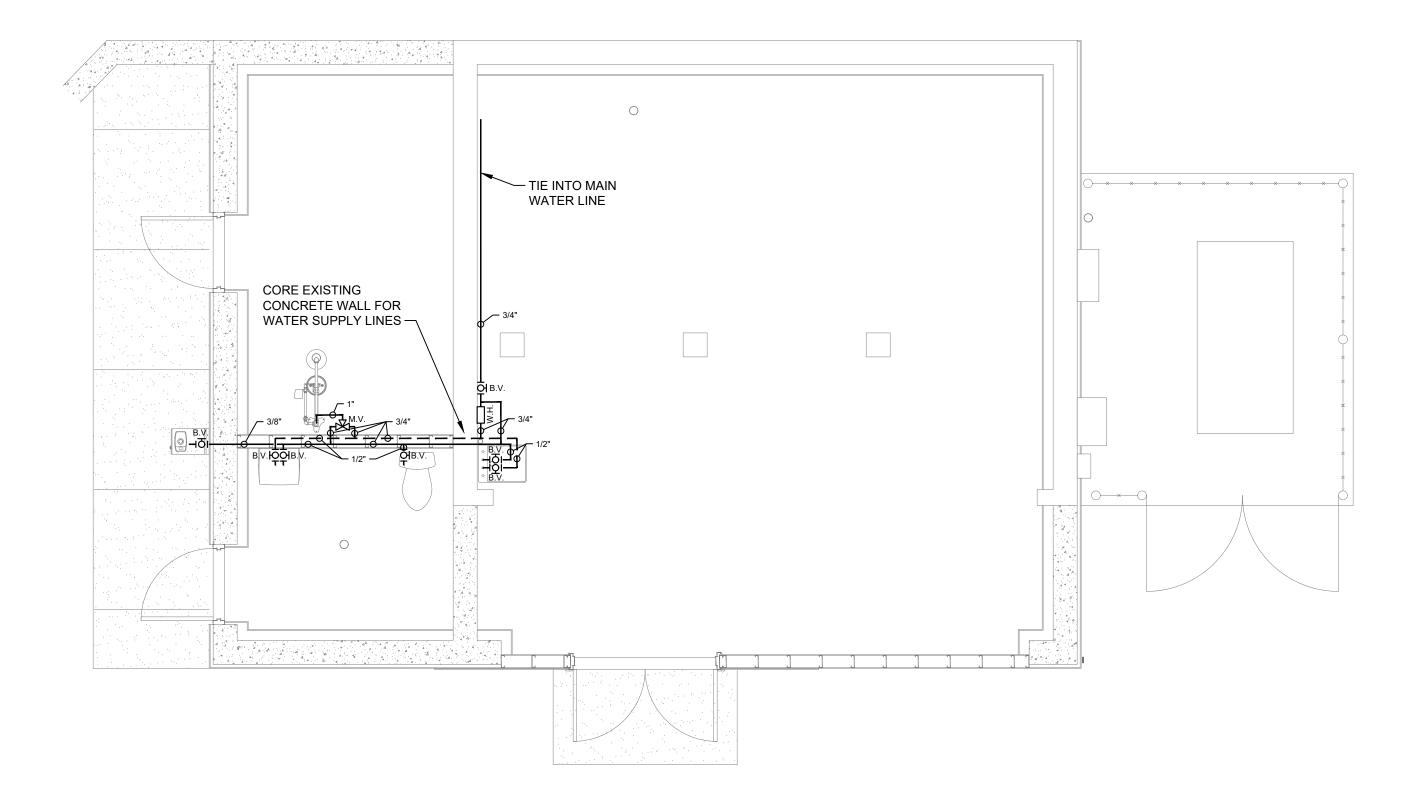
Base design is based on Kwikset and Everbuilt, equal design criteria by another manufacture is acceptable.



	PLUMBING SCHEDULE											
SYMBOL	DESCRIPTION	MANF./MODEL# OR EQUAL	REMARKS									
F.D.	4" ADJUSTABLE FLOOR DRAIN	WATTS FD12-R-4PVC-5RSS	SEE S-1 FOUNDATION PLAN FOR LOCATION									
O c.o.	4" ADJUSTABLE FLOOR CLEANOUT	WATTS CO12-4PVC-SS	INTERIOR OF BUILDING									
© C.O.	THREADED PLUG TYPE		EXTERIOR OF BUILDING									
в.у. 🖸	BALL VALVE											
W.H.	TANKLESS ELECTRIC WATER HEATER	RHEEM RETEX-18	208v/1ph - 13.3 kw									
M.V.	MIXING VALVE	GUARDIAN EQUIP. PRODUCTS G3700LF										



TYPICAL FLOOR DRAIN DETAIL NO SCALE



WATER PUMPING STATION PLUMBING PLAN - SUPPLY SCALE: 1/4" = 1'-0"

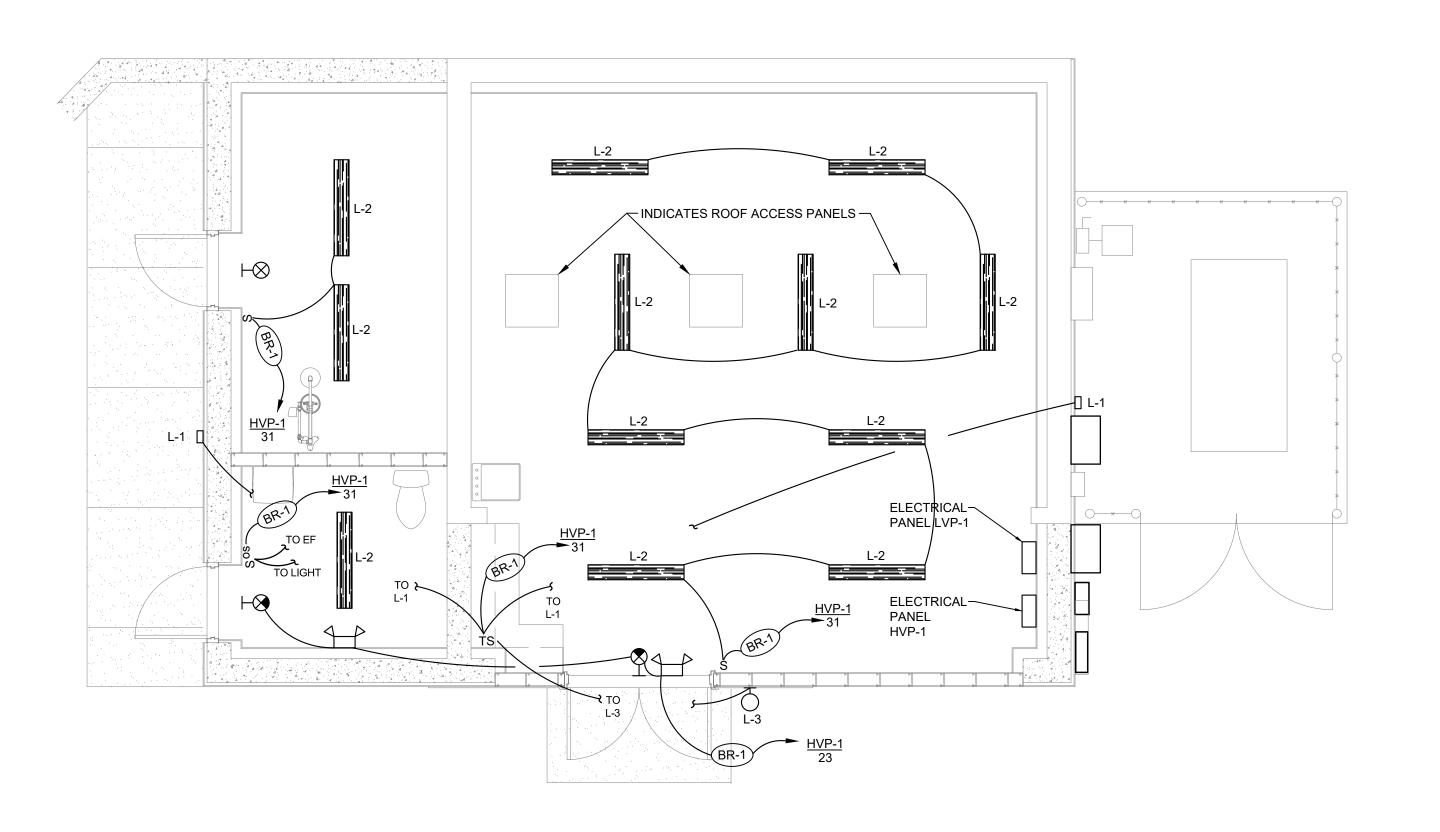
PLUMBING GENERAL NOTES:

- Plumbing Code 2015 of New York StatePVC hanger spacing; 4ft. horizontally, 10ft vertically.
- Provide and install new 1/2" PEX hot and cold water supply lines to new sink in Restroom and eyewash in chemical storage.

 - Provide and install new 1/2" PEX cold water supply
- line to new toilet in Restroom.
- Supply lines shall be supported 5'-0" o.c. and at all changes of direction.
 - Piping shall be insulated to prevent condensation.

INDICATES COLD WATER SUPPLY ___ _ INDICATES HOT WATER SUPPLY

OF



-18 x 18 GALV. DUCT, SEAL ALL SEAMS WITH ALUMINUM FOIL -SEE EF/INT WIRING DIAGRAM COATED TAPE AND WRAP WITH R-8 DUCT INSULATION -EXISTING 208V-240V, 1 PH TRANSFORMER T1 ←EXISTING BATTERY **PANEL EMERGENCY** EXISTING **GENERATOR** REFER TO WESTECH DRAWINGS FOR CONNECTING CABLE TYPES CONDUITS 13.3 KW PROVIDED BY E.C. -EXIST. 150A PANEI -EXIST. 150A ATS -EXISTING 208V/3PH RECEPTACLE SERVICE DISCONNECT (2 CIRCUIT) TIMER SUPPLIED BY G.C. WATERBOY CONTROL PANEL - REFER TO WESTECH DWGS FOR INTERCONNECTING CABLE REQUIREMENTS WIRE TROUGH & UTILITY METERS WITH SERVICE DISCONNECTS -208V/3PH, (3) 500 MCM & #1/0 For Chemical storage room: "VENTILATION SYSTEM GRD TO EXISTING POWER **EMERGENCY SHUT-OFF"** POLE, SEE INCOMING Mushroom button wall plate station. **ELECTRIC DUCTBANK DETAIL** 208V/3PH 208V/3PH Red momentary 40mm mushroom.— WATERBOY 240V POWER NEW PUMP STATION PUMP STATION CONTROL—PANEL & DISCONNECTS ON PEDESTAL

WATER PUMPING STATION BUILDING ELECTRICAL PLAN - LIGHTING SCALE: 1/4" = 1'-0"

POWER AND LIGHTING SCHEDULE												
SYMBOL	MANF.	DESCRIPTION	MOUNTING	LENS	TYPE	AMPS LUMENS	WATTS	AMP	VOLT	REMARKS		
GFCI	-	GROUND FAULT CIRCUIT INTERRUPTER	CENTER 18" A.F.F.	-	-	-	-	20	120	DUPLEX * SEE NOTE		
Sh	-	MOTOR SOFT STARTER/DISCONNECT	LOCAL.	-	-	-	-	-	-	SIZE/RATING PER NEC REQUIREMENTS		
ď	-	DISCONNECT SWITCH	LOCAL.	-	-	-	-	-	-	SIZE/RATING PER NEC REQUIREMENTS		
S	LEVITON	COMMERCIAL GRADE WALL SWITCH	CENTER 48" A.F.F.	-	-	-	-	15	120/277	-		
Sos	LUTRON MAESTRO #MS-A102	AUTOMATIC WALL SWITCH 180 deg DUAL TECHNOLOGY TYPE OCCUPANCY/VACANCY SENSOR, WHITE, AUTO ON/OFF OR MANUAL ON/AUTO OFF, ADJUSTABLE TIMEOUT	CENTER 48" A.F.F.	-	-	-	-	15	120/277	-		
TS	LEVITON VPT24-1PZ	SINGLE POLE 24hr PROGRAMMABLE TIMER	CENTER 48" A.F.F.	-	-	-	-	15	120	SET TO TURN "ON" @ SUNSET, "OFF" @ SUNRISE		
L-1	PROBRITE STL15-4K-BZ	OUTDOOR LED WALL PACK LIGHT	SEE ELEVATIONS	TEMPERED GLASS	LED	1600	15	0.275	120	DARK SKY DESIGN		
L-2	CREE WS4-47L-35K-10V-FD	4' LED WET LOCATION LINEAR FIXTURE	CEILING SURFACE	ACRYLIC	LED	4700	50	0.15	120	-		
Ŷ L-3	HAMPTON BAY HB7058-304	OUTDOOR LED WALL LANTERN with OPEN BOTTOM	SEE ELEVATIONS	-	LED	915	13		120	DARK SKY DESIGN		
\$	E-CONOLIGHT E-XCL2RW	SINGE FACE EXIT SIGN W/ BATTERY BACKUP	SURFACE	-	LED	-	-	-	120	-		
$ \rightarrow $	E0CONOLIGHT E-XML1W	EMERGENCY LIGHT W/ BATTERY BACKUP	SURFACE	-	LED	-	-	-	120	DUAL HEAD		

BRANCH SCHEDULE

WIRES

2 + G

3 + G

4 + G

2 + G

3 + G

3 + G

3 + G

WIRE SIZE

#12

#12

#12

#10

#6

#8

#4

FEEDER#

(BR-1)

(BR-2)

BR-3

(BR-4)

BR-5

BR-6

BR-7

CONDUIT

SIZE

3/4"

3/4"

3/4"

3/4"

1-1/4"

LIGHTING NOTES:

- 1. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL LIGHTING FIXTURES, LAMPS, CONDUIT AND WIRING. FIXTURES, LAMPS & BALLASTS TO MEET CEE ENERGY EFFICIENCY REQUIREMENTS.
- 2. ALL 120V LIGHTING CIRCUITS SHALL BE 1#12, #12N & #12G COPPER THHN IN $\frac{3}{4}$ " CONDUIT U.O.N. OTHER VOLTAGES SHALL BE 2#12,
- #12G COPPER THHN IN $\frac{3}{4}$ " CONDUIT U.O.N. 3. SURFACE MOUNTED LIGHT FIXTURES MAY BE
- SUSPENDED TO CLEAR OTHER TRADES. 4. LIGHTING FIXTURE DIMENSIONS ARE APPROXIMATE. FIELD VERIFY LIGHT SPACING DIMENSIONS, ADJUST AS NECESSARY TO MATCH FINAL ROOM SIZE AND EQUIPMENT LOCATION. KEEP CLEAR OF ELECTRICAL,
- MECHANICAL, AND HVAC COMPONENTS. 5. INSTALL SWITCHES AND CONTROLS MINIMUM 48" TO CENTER A.F.F.
- 6. IF INSTALLED, ADJUST/LOCATE PHOTOCELL TO ALLOW PROPER OPERATION OF EXTERIOR LIGHTS.
- 7. MOUNT EXIT LIGHTS ABOVE CENTER OF DOORS. MOUNT REMOTE HEADS APPROXIMATELY 84" A.F.F. AND CLEAR OF OTHER TRADES/EQUIPMENT TO PROVIDE BEST ILLUMINATION OF EGRESS PATH.
- 8. REMOTE EMERGENCY LIGHT HEAD WIRING -ASSUME 2#12 THHN/THWN IN 1 CONDUIT OR MC. INSTALL ACCORDING TO NEC AND EMERGENCY LIGHT MFG

- 8. THE ELECTRICAL CONTRACTOR WILL
 - 10. THE ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR ALL EXCAVATIONS, BACKFILL AND COMPACTION ETC. AS REQUIRED FOR ALL ELECTRICAL INSTALLATIONS.
 - 11. REFER TO SITE PLAN DRAWING FOR INFORMATION PERTINANT TO THIS CONTRACT (EX. NEW UNDERGROUND
 - 12. ALL CONDUIT IN THE FINISHED AREAS IS TO BE CONCEALED IN THE WALLS AND CEILING.
 - INFORMATION. WITH THE NEC FROM A RECOGNIZED AND
 - 15. ELECTRICAL CONTRACTOR SHALL FIELD
- * SURFACE MOUNT 1-GANG METAL

ELECTRICAL BOX TO CONCRETE WALL.

ELECTRICAL NOTES:

- 1. UNLESS OTHERWISE INDICATED ALL CONDUCTORS EXCEPT UNDERGROUND INSTALLATIONS ARE TO BE IN ELECTRICAL METALLIC TUBING (EMT) W/ SCREW CONNECTIONS COUPLINGS AND FITTINGS: UNLESS OTHERWISE REQUIRED BY NEC RESTRICTIONS.
- 2. MINIMUM CONDUIT SIZE, EXCEPT FOR TEMPERATURE CONTROL SHALL BE 3/4".
- 3. ALL ABOVE GROUND CONDUIT ABOVE TRADE SIZE 1.25" SHALL BE GRC.
- 4. ALL CONDUCTORS ARE TO BE COPPER. 5. ALL DISCONNECT SWITCHES AND SAFETY SWITCHES SHALL BE HEAVY DUTY SERIES.
- 6. MC CABLE WILL NOT BE ACCEPTED. 7. 'GREENFIELD' AND 'SEALTITE' FLEX CONDUIT CAN BE USED IN LENGTHS NOT TO EXCEED
- PROVIDE LINE VOLTAGE POWER TO ALL LINE VOLTAGE HVAC, DEVICES, PROVIDED BY THE HVAC CONTRACTOR (REFER TO HVAC DWGS).
- 9. THE GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR ALL CONDUIT AND WIRE FOR THE LOW VOLTAGE TEMPERATURE CONTROL SYSTEM.
- SERVICE).
- 13. REFER TO DRAWING F-1 FOR ALL FIRE ALARM
- 14. PROVIDE A CERTIFICATE OF COMPLIANCE ACCREDITED INSPECTION AGENCY.
- VERIFY ALL CIRCUIT SIZES W/ EQUIPMENT MANUFACTURER.

GENERAL ELECTRICAL NOTES:

SCALE: 1/4" = 1'-0"

- 1. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING, INSTALLING AND CONNECTING ALL LINE AND LOW VOLTAGE CONDUIT, CONDUCTORS, SWITCHES, DISCONNECTS, JUNCTION BOXES AND FIXTURES FOR POWER. TELECOMMUNICATIONS, AND LIGHTING SWITCHES.
- 2. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING, INSTALLING AND CONNECTING ALL LINE CONDUIT AND LOW VOLTAGE CONDUCTORS FOR ALL EQUIPMENT SUPPLIED BY THE GENERAL CONTRACTOR, HVAC CONTRACTOR AND OWNER.
- 3. LABEL ALL PANELS, DISCONNECTS, MOTOR STARTERS, AND CONTROLLERS. ALL LABELS ARE TO BE SELF ADHERING PLASTIC LAMINATED WITH \(\frac{3}{8}\)" WHITE LETTERS ON A BLACK BACKGROUND. 4. PROVIDE A TYPEWRITTEN CIRCUIT DIRECTORY IN ALL NEW PANEL
- BOXES AND UPDATE ANY MODIFIED CIRCUIT DIRECTORIES FOR EXISTING PANELS.
- 5. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ARRANGING AND SCHEDULING ALL ELECTRICAL INSPECTIONS, PAY ALL FEES, AND SUBMIT A FINAL INSPECTION REPORT TO THE ENGINEER.
- 6. THE ELECTRICAL CONTRACTOR SHALL INSTALL ALL GROUNDING IN ACCORDANCE WITH NEC ARTICLE 250 AND ACCORDING TO THE REQUIREMENTS INDICATED ON THE DRAWINGS. EQUIPMENT GROUNDING CONDUCTORS SHALL BE USED. GROUNDING THRU RACEWAY AND CONDUIT IS NOT PERMITTED.
- 7. THE LOCATIONS AND ROUTES OF CONDUITS AND RACEWAYS SHOWN ON THESE DRAWINGS ARE SCHEMATIC. ALL CONDUITS ABOVE THE SLAB SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO THE BUILDING. CONDUITS ABOVE THE CEILING SHALL BE MOUNTED AS HIGH AS POSSIBLE. ALL BELOW GROUND CONDUITS SHALL BE INSTALLED USING THE MOST DIRECT ROUTE WITH CONSIDERATION OF PROPER COORDINATION WITH OTHER

UTILITIES-UNDERGROUND OR ABOVE GROUND.

- 8. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONDUIT AND CONDUCTORS FOR TELEPHONE AND LAN SYSTEMS. ALL CONDUCTORS SHALL BE COPPER WITH TYPE THHN/THWN OR XHHW INSULATION U.O.N. ALL CONDUCTORS SHALL BE SIZED PER NEC.
- 9. ALL DUPLEX RECEPTACLES SHALL BE MOUNTED VERTICALLY AND 18" NOMINALLY A.F.F. TO BOTTOM OF BOX, U.O.N. 10. ALL DISCONNECT SWITCHES AND SAFETY SWITCHES ARE TO BE
- HEAVY DUTY TYPE.
- 11. MC CABLE WILL NOT BE PERMITTED. 12. 'GREENFIELD' AND LIQUID-TIGHT FLEX CONDUIT MAY BE USED IN LENGTHS NOT TO EXCEED 72".
- 13. THE ELECTRICAL CONTRACTOR SHALL CAULK ALL PENETRATIONS, RELATED TO ELECTRICAL WORK, IN 1 & 2 RATED HOUR FIRE WALLS WITH 3M FIRE CAULK. SEAL LARGER OPENINGS WITH WIREMOLD 'FLAMESTOPPER' KIT.
- 14. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONDUIT, AND CONDUCTORS REQUIRED TO PROVIDE AN INTERFACE WITH AUTODIALER ALARMS AND THE SCADA SYSTEM. INTEGRATION SHALL BE PROVIDED BY GENERAL CONTRACTOR.
- 15. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL THERMAL PROTECTION FOR MOTORS AS REQUIRED BY CODE. SUBMITTAL INFORMATION SHALL BE PROVIDED TO THE ENGINEER FOR APPROVAL.

ELECTRIC HEATING EQUIPMENT SCHEDULE MANF./MODEL# DESCRIPTION REMARKS SYMBOL OR EQUAL HORIZONTAL DELIVERY ELECTRIC WALL MOUNTED BRACKET MODINE #HER30 UNIT HEATER (EUH) mount as high as possible 10,200btu/hr 1/40hp, 208V/3PH HORIZONTAL DELIVERY ELECTRIC WALL MOUNTED BRACKET MODINE #HER75 UNIT HEATER (EUH) mount as high as possible 25,600btu/hr 1/40hp, 208V/3PH CADET FLOOR MOUNTED 48" ELECTRIC BASEBOARD #4F100-1W 05534

3,415btu/hr

1000w, 120V/1PH, 8.3amps

see 1 & 2 remarks

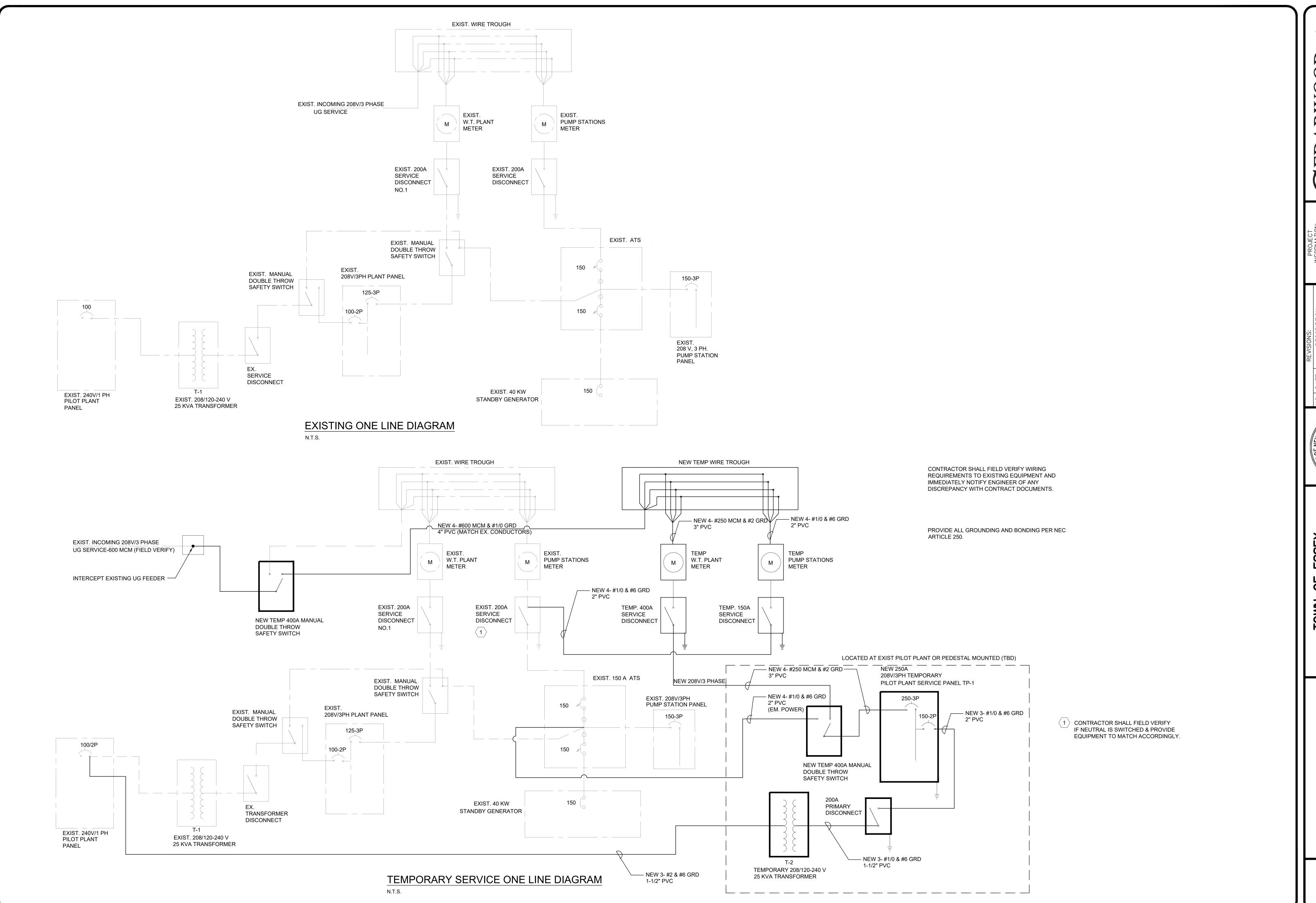
WATER PUMPING STATION EQUIPMENT ELECTRICAL PLAN - POWER

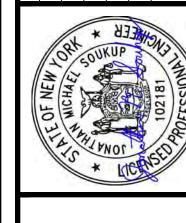
- WALL MOUNT HEATER 2" MINIMUM ABOVE FINISHED FLOOR.
- 2. PROVIDE SINGLE POLE T-STAT CADET #BTF1. (FIELD INSTALLED)

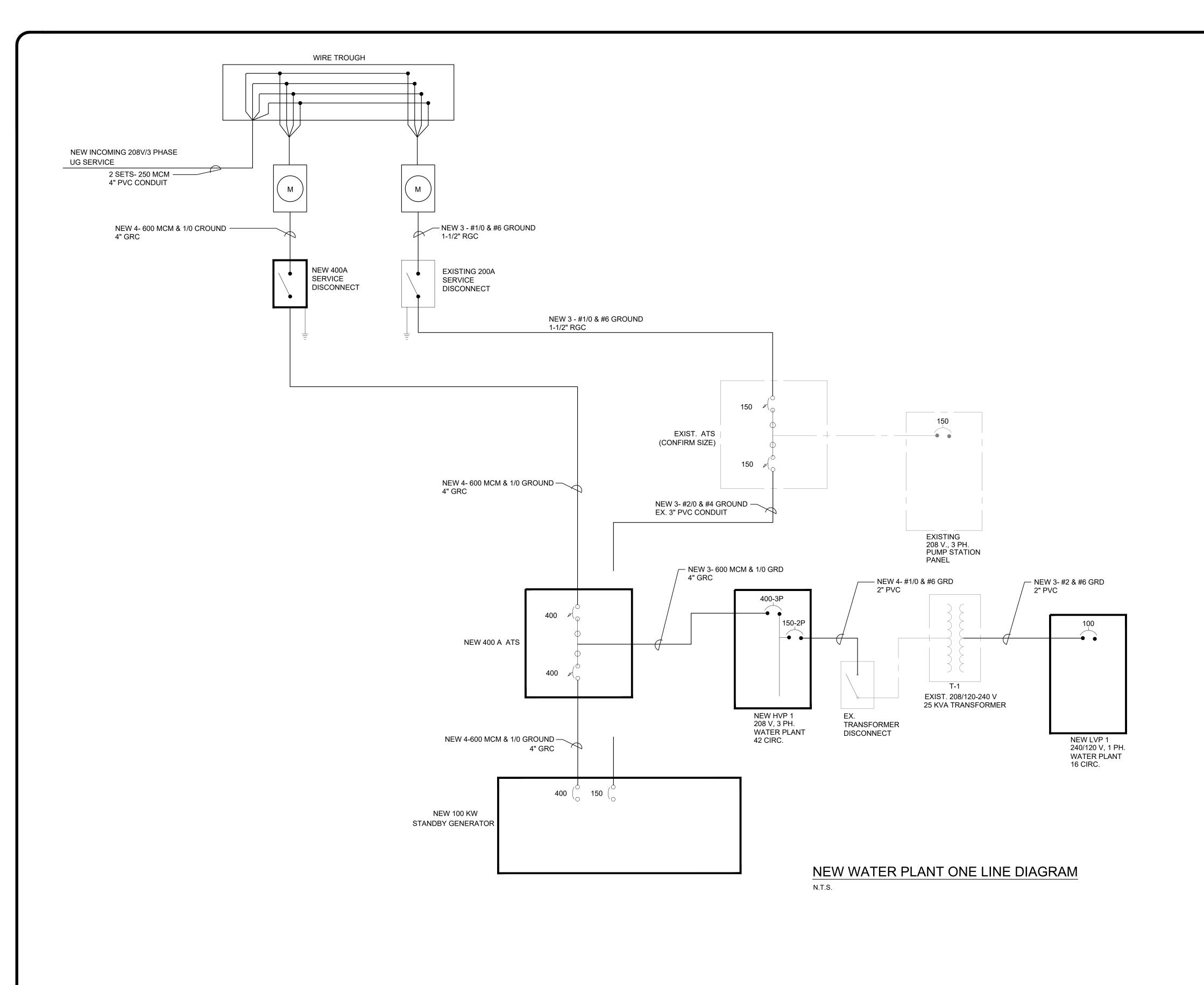
	BUILDING VENTILATION SYSTEM									
CALL OUT	DESCRIPTION	MOUNTING								
(Int-1)	12" x 15" AIR INTAKE LOUVER/DAMPER, by GREENHECK MODEL # EAC-401 or EQUAL. OPTIONS; BIRD/INSECT SCREEN, EXTENDED SILL, FLANGED FRAME AND ELECTRIC ACTUATOR. BAKED ENAMEL FINISH W/ COLOR TO MATCH DOORS.	SEE ELEVATIONS								
(Int-2)	18" x 21" AIR INTAKE LOUVER/DAMPER, by GREENHECK MODEL # EAC-401 or EQUAL. OPTIONS; BIRD/INSECT SCREEN, EXTENDED SILL, FLANGED FRAME AND ELECTRIC ACTUATOR. BAKED ENAMEL FINISH W/ COLOR TO MATCH DOORS.	SEE ELEVATIONS								
EF-1	EXHAUST FAN, by GREENHECK MODEL # SE1-8-426-D or EQUAL. 1550 rpm/140 cfm @.15" RANGE. 115v 60Hz 1/80hp. PROVIDE REMOTE DIAL CONTROL FOR MOTOR. MOUNTING OPTION, FLUSH EXTERIOR INSIDE OF BUILDING. OPTIONS; WALL COLLAR, MOTOR GUARD AND EXTERIOR MOUNTED WD-320 GRAVITY BACKDRAFT DAMPER. BAKED ENAMEL FINISH W/ COLOR TO MATCH DOORS.	SEE ELEVATIONS								
EF-2	EXHAUST FAN, by GREENHECK MODEL # SE1-10-428-D or EQUAL. 1650rpm/500 cfm @.125" RANGE. 115v 60Hz 1/20hp. PROVIDE REMOTE DIAL CONTROL FOR MOTOR. MOUNTING OPTION, FLUSH EXTERIOR INSIDE OF BUILDING. OPTIONS; WALL COLLAR, MOTOR GUARD AND EXTERIOR MOUNTED WD-320 GRAVITY BACKDRAFT DAMPER. BAKED ENAMEL FINISH W/ COLOR TO MATCH DOORS.	SEE ELEVATIONS								
EF-3	EXHAUST FAN, by PANASONIC WHISPER CEILING MODEL # FV-08WQ1 or EQUAL. 70 cfm. 120v/1 ph 60Hz .2 amp, ENERGY STAR RATED. WALL MOUNTED RATED, ROUND GALVANIZE METAL DUCT EXTENSION REQUIRED, DIAMETER SIZE PER MANUFACTURE.	SEE ELEVATIONS								

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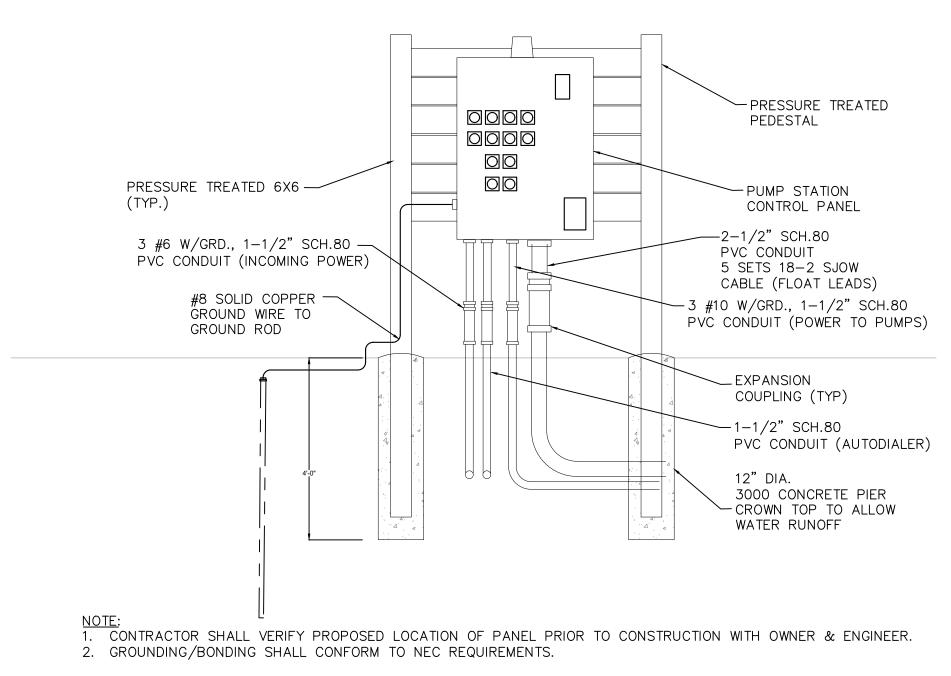
PANEL BOARD HVP-1 SCHEDULE MAIN BUS RATINGS: 600A, 208/120 VOLTS, 3 PHASE, 4 WIRE FED FROM: INCOMING SERVICE MINIMUM SHORTCIRCUIT INTERRUPTION RATING: 10,000 AIC INCOMING FEED: 400 A. MAIN BREAKER TRIP: 400A (54 circ.) ENCLOSURE: 3R ESTIMATED CONNECTED LOAD: 302 A CB CIR. kVA kVA kVA CIR. CB NO 21 23.4 20 NO TRIP/POLE DESCRIPTION DESCRIPTION а в с SPARE 20A/1 | 1 | 40A/2 3 4 4 5 6 EUH-2 WATER HEATER (CKT 1) EUH-1 10 20A/3 RAW WATER PUMP #1 13 WASTEWATER PUMP RAW WATER PUMP #2 CONTROL PANEL 20A/1 19 20 20A/1 EF-1 / INT-1 WP GFCI OUTLET 15A/1 21 ____ EF-3 22 20A/1 WP GFCI OUTLET EMERGENCY/EXIT LIGHTING 20A/1 23 . UV PANEL WATER HEATER (CKT 2) GFCI OUTLET SPARE EBB-1 32 20A/1 LIGHTING 20A/1 31 ____ EF-2 / INT-2 GFCI OUTLET AUX. GFCI OUTLET GFCI OUTLET 20A/1 35 36 20A/1 AUX. GFCI OUTLET WP GFCI OUTLET 20A/1 | 37 | ____ 38 20A/1 20A/1 39 -CHLOR. ANALYZER CL17 42 20A/1 TRANSFORMER T1 / LVP-1 44 20A/1 | 45 | _____ 20A/1 47 — 48 20A/1 20A/1 49 — 50 20A/1 51 — 53 UPHILL PAVILLION UPHILL PAVILLION

SQUARE D - NQ454L4C WITH ENCLOSURE, LAL36400 MB, MAIN BREAKER KIT, NEUTRAL AND GROUND BARS AS REQUIRED SURFACE MOUNT COVER. 400A, 208/120 VOLTS, 3 PHASE, 4 WIRE

53 ______ 54

	PANE	LE	BOARD LVI	P-1	SCHE	Dl	JLE
MAIN BUS RATINGS:	100A, 240/120 V	OLTS	, 1 PHASE, 3 WIRE		FED FROM	: T1	
MINIMUM SHORTCIRCU	IIT INTERRUPTION	RATI	NG: 10,000 AIC		INCOMING	FEE	D: 100A - 208/240-120V TRANSF. T
MAIN BREAKER TRIP:	100A (16 circ.)				ENCLOSUF	RE:	NEMA 3R
ESTIMATED CONNECTE	ED LOAD: 53.5A						
DESCRIPTION	СВ	CIR.		CIR.	СВ		DESCRIPTION
	TRIP/POLE	NO		NO	TRIP/POLE		
			A B				
WATERDOY WERD	70A/2	1		2	20A/1		SPARE
WATERBOY WBPP	TOAIZ	3		4	20A/1		SPARE
SPARE	20A/1	5		6			
		7		8			
		9		10			
		11		12			
		13		14			
		15		16			

SQUARE D - QO116M100RB, NEMA 3R, NEUTRAL AND GROUND BARS AS REQUIRED 100A, 240/120 VOLTS, 1 PHASE, 3 WIRE



PUMP STATION ELECT. FEED DETAIL

N.T.S

B
Saga Main Street, WARRENSBURG, NY 12885. (P) 518.623.5500
8-12 Dietz Street, Suite 303, Oneonta, NY 13820. (P) 607.441.3246

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