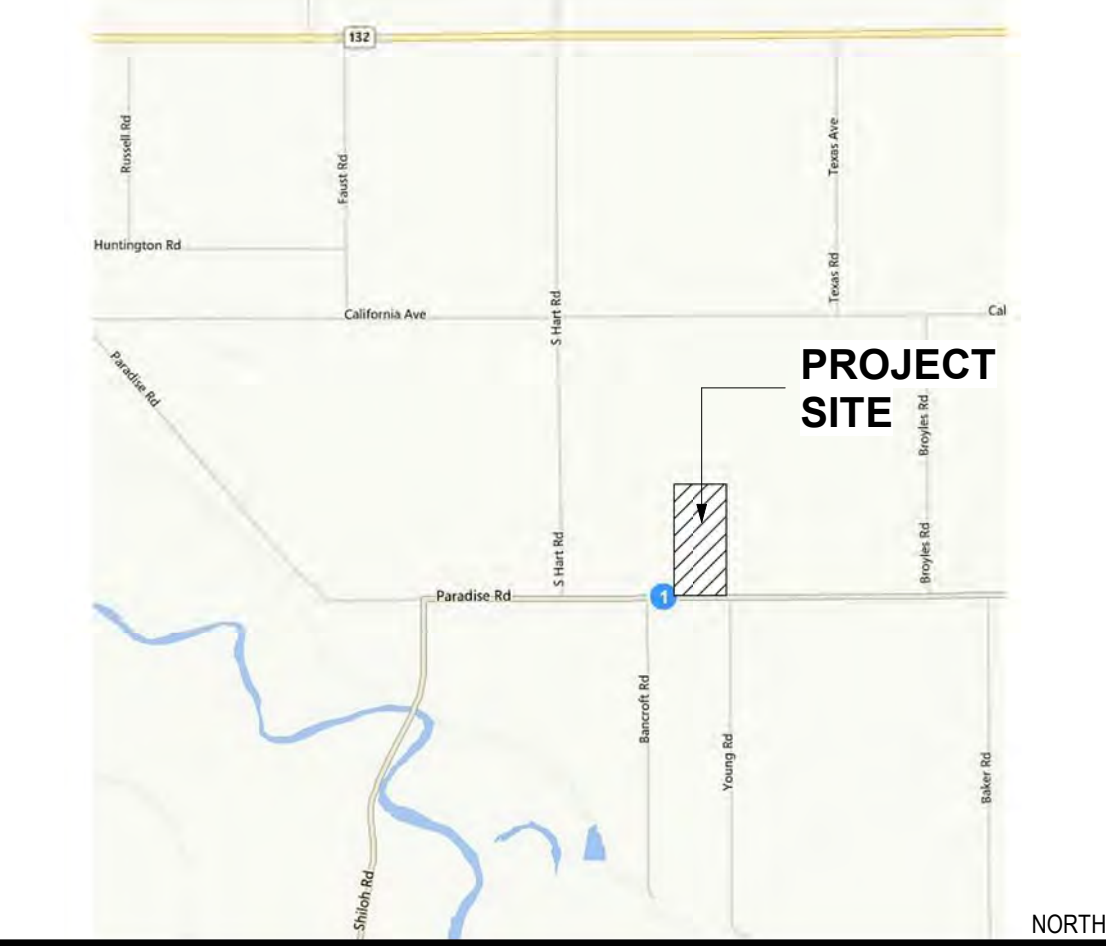


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	15		14		13
ABV	ABOVE		LTWT	LIGHT WEIGHT	
AFF	ABOVE FINISH FLOOR		L	LONGLENGTH	
ACC	ACCESSIBLE		LV	LOUVER VENT	
ACCU	ACOUSTICAL		MB	MACHINE BOLT	
ADJ	ADJUSTABLE		MH	MAN HOLE	
AC	AIR CONDITIONING			MANUFACTURER	
ALT	ALTERNATE		MAS	MASONRY	
ALUM	ALUMINUM		MAX	MAXIMUM	
AB	ANCHOR BOLT		MECH	MECHANICAL	
ANOD	ANODIZED			METAL	
ARCH	ARCHITECT(URAL)		MIN	MINIMUM	
AC	ASPHALT CONCRETE		MISC	MISCELLANEOUS	
APL	ASSUMED PROPERTY LINE		MTD	MOUNTED	
AUTO	AUTOMATIC		(N)	NEW	
BM	BEAM		NRC	NOISE REDUCTION COEFF.	
BET	BETWEEN		NOM	NOMINAL	
BLK	BLOCK		N	NORTH	
BLKG	BLOCKING		NIC	NOT IN CONTRACT	
BD	BOARD		NTS	NOT TO SCALE	
BOT	BOTTOM		NO#	NUMBER	
BOB	BOTTOM OF BEAM		OC	ON CENTER	
BLDG	BUILDING		OPNG	OPENING	
CIP	CAST IN PLACE		OD	OUTSIDE DIAMETER	
CB	CATCH BASIN		OI	OVER	
CLKG	CAULKING		OFOI	OWNER FURNISHED OWNER INSTALLED	
CLG	CEILING				
CJ	CEILING JOIST / CONTROL JOINT		OFCI	OWNER FURNISHED CONTRACTOR INSTALLED	
CEM	CEMENT				
CL	CHAIN LINK		PR	PAIR	
CO	CLEAN OUT		PTD	PAPER TOWEL DISPENSER	
CLR	CLEAR(ENCE)		d	PENNY	
COL	COLUMN		PERF	PERFORATED	
COMB	COMBINATION			PLASTER	
CONC	CONCRETE		PLYWD	PLYWOOD	
CMU	CONCRETE MASONRY UNIT		PT	POINT	
CONST	CONSTRUCTION		POC	POINT OF CONNECTION	
CONT	CONTINUOUS		PVC	POLYVINYL CHLORIDE	
CTSK	COUNTER SINK		PSI	POUNDS PER SQ. INCH	
D	DEEP		PSF	POUNDS PER SQ.FT.	
D	DEEP (DEPTH)		PREFAB	PREFABRICATED	
DEPT	DEPARTMENT		P.T.	PRESSURE TREATED	
DTL	DETAIL		PTDF	PRESSURE TREATED DOUG. FIR	
DIAG	DIAGONAL		PROJ	PROJECT	
DIA	DIAMETER		P.L.	PROPERTY LINE	
DIM	DIMENSION		RAD	RADIUS	
DISP	DISPENSER		REF	REFERENCE	
DR	DOOR		REFL	REFLECTED	
DBL	DOUBLE		REFR	REFRIDGERATOR	
DF	DOUGLAS FIR		REINF	REINFORCE(ING)	
DN	DOWN		REQ	REQUIRED	
DS	DOWN SPOUT		RA	RETURN AIR	
DWG	DRAWING		REV	REVISION(S)/REVISED	
DF	DRINKING FOUNTAIN		ROW	RIGHT OF WAY	
EA	EACH		R	RISER/RADIUS	
EW	EACH WAY		RD	ROOF DRAIN	
E	EAST		RM	ROOM	
EWC	ELECT. WATER COOLER		RO	ROUGH OPENING	
ELEC	ELECTRIC(AL)		RB	RUBBER BASE	
ELEV	ELEVATION		SECT	SECTION	
EMER	EMERGENCY		SHTG	SHEATHING	
ENCL	ENCLOSURE		SHT	SHEET	
EQ	EQUAL		SM	SHEET METAL	
EXH	EXHAUST		SIM	SIMILAR	
	EXISTING		SD	SOAP DISPENSER	
EJ	EXPANSION JOINT		SC	SOLID CORE	
EXP	EXPOSED/EXPANSION		STC	SOUND TRANSMISSION COEFF.	
EXT	EXTERIOR		S	SOUTH	
FOC	FACE OF CONCRETE		SPEC	SPECIFICATION	
FOF	FACE OF FINISH		SQ	SQUARE	
FOM	FACE OF MASONRY		SF	SQUARE FOOT	
FOS	FACE OF STUD/STRUCTURE		SS	STAINLESS STEEL	
FIN	FINISH		STD	STANDARD	
FF	FINISH FLOOR		STL	STEEL	
FA	FIRE ALARM		STOR	STORAGE	
FE	FIRE EXTINGUISHER		STRUC	STRUCTURE	
FEC	FIRE EXTINGUISHER CABINET		S4S	SURFACE FOUR SIDES	
FH	FIRE HYDRANT		SUSP	SUSPENDED	
FLASH	FLASHING		SAT	SUSPENDED ACOUSTICAL TILE	
FLR	FLOOR		SYM	SYMBOL/SYMMETRICAL	
FT	FOOT / FEET		TB	TACKBOARD	
FTG	FOOTING		TEL	TELEPHONE	
FDN	FOUNDATION		TV	TELEVISION	
GA	GAGE / GAUGE		THK	THICK	
GI	GALVANIZED IRON		THRES	THRESHOLD	
GL	GLASS / GLAZING		T&G	TONGUE & GROOVE	
GALV	GALVANIZED		TOB	TOP OF BEAM	
GLB	GLUE LAMINATED BEAM		TOC	TOP OF CURB/CONCRETE	
GB	GRAB BAR		TOP	TOP OF	
GND	GROUND		TOS	TOP OF PLATE/PARAPET/PAVEMENT	
GYP	GYP SUM		TOW	TOP OF SHEATHING STEEL/SLAB	
GYPBD	GYP SUM BOARD		T	TOP OF WALKWALL	
HDW	HARDWARE		T	TREAD	
HDR	HEADER		TYP	TYPICAL	
HVAC	HEATING/VENTILATING/AIR CONDITION		UNO	UNLESS NOTED OTHERWISE	
			UR	URNAL	
HT	HEIGHT		VERT	VERTICAL	
H	HIGH		VCT	VINYL COMPOSITION TILE	
HC	HOLLOW CORE		WSTC	WAINSCOT	
HM	HOLLOW METAL		WC	WATER CLOSET	
HSS	HOLLOW STRUCTURAL SECTION		WH	WATER HEATER	
HORIZ	HORIZONTAL		WP	WATER PROOFING	
HB	HOSE BIB		WR	WATER RESISTANCE	
HR	HOUR		WT	WEIGHT	
IN	INCH		WWF	WELDED WIRE FABRIC	
ID	INSIDE DIAMETER		W	WEST/WIDTH/WIDE	
INSUL	INSULATION		WDW	WINDOW	
INT	INTERIOR		WI	WITH	
LAB	LABORATORY		W/O	WITHOUT	
LAM	LAMINATE(D)		WD	WOOD	
LAV	LAVATORY		WWM	WOVEN WIRE MESH	
LT	LIGHT		WI	WROUGHT IRON	

ABBREVIATIONS



(E) PUMP HOUSE FIRE SERVICE
(FIRE PUMP = 1000 AT 70 PSI) (02-178)

(E) PAIR 8"-0" DBL. SWING GATE - INSTALL KNOX BOX KEY STORAGE - SEE 2/FGA

3/16" STEEL PLATE - WELD TO POST AND PAINT WITH GALVANIZING PAINT AFTER WELDED IN PLACE

6"

2 1/2"

LINE OF CHAINLINK

KNOXBOX 3200 (SURFACE MOUNT) WITH HINGED DOOR - COORDINATE WITH FIRE DEPARTMENT FOR FINAL LOCATION & MOUNTING HEIGHT - OBTAIN AUTHORIZATION ORDER FORM FROM THE FIRE DEPARTMENT FOR ORDERING

EASE ALL CORNERS

4 1/2"

7/16" DIA HOLES FOR ATTACHMENT BOLTS, COORDINATE BOLT PATTERN

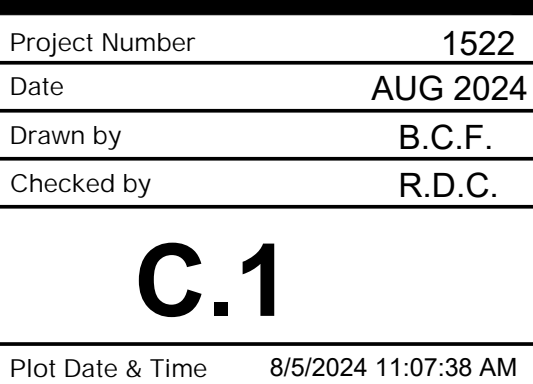
FILET WELD

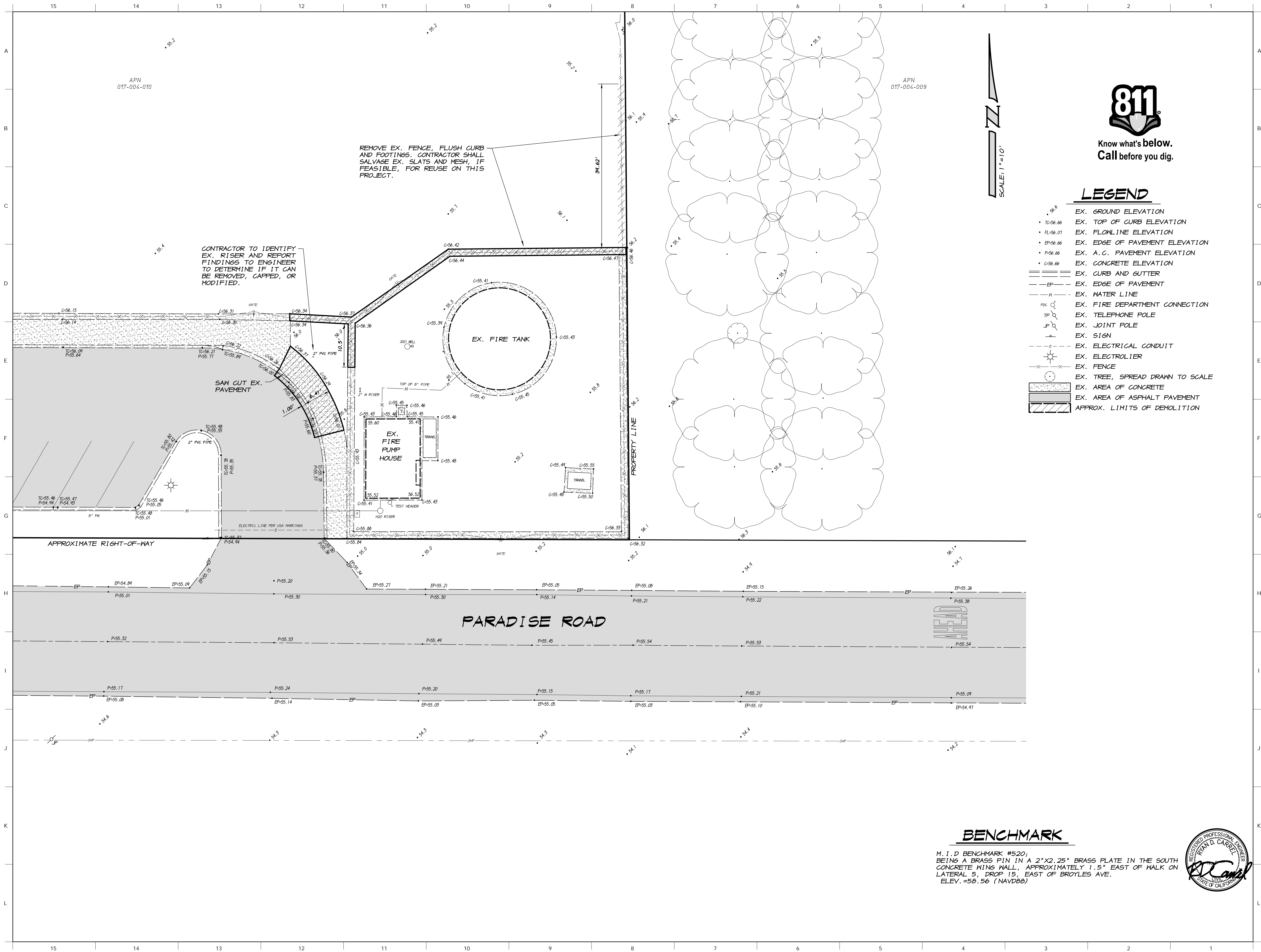
FENCE OR GATE POST

FILET WELD FRONT & BACK

BUILDING INFORMATION

Project Number	2324
Date	JAN 2024
Drawn by	RRM
Checked by	TPH
FGA	
Plot Date & Time	8/29/2024 8:42:45 AM





Know what's below.
Call before you dig.

LEGEND

- EX. GROUND ELEVATION
- EX. TOP OF CURB ELEVATION
- EX. FLOWLINE ELEVATION
- EX. EDGE OF PAVEMENT ELEVATION
- EX. A.C. PAVEMENT ELEVATION
- EX. CONCRETE ELEVATION
- EX. CURB AND GUTTER
- EX. EDGE OF PAVEMENT
- EX. WATER LINE
- EX. FIRE DEPARTMENT CONNECTION
- EX. TELEPHONE POLE
- EX. JOINT POLE
- EX. SIGN
- EX. ELECTRICAL CONDUIT
- EX. ELECTROLIER
- EX. FENCE
- EX. TREE, SPREAD DRAWN TO SCALE
- EX. AREA OF CONCRETE
- EX. AREA OF ASPHALT PAVEMENT
- APPROX. LIMITS OF DEMOLITION

BENCHMARK

M.I.D BENCHMARK #520;
BEING A BRASS PIN IN A 2"x2.25" BRASS PLATE IN THE SOUTH
CONCRETE WING WALL, APPROXIMATELY 1.5" EAST OF WALK ON
LATERAL 5, DROP 15, EAST OF BROYLES AVE.
ELEV. =50.56 (NAVD88)



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SS ☒ FLS ☒ ACS ☒
DATE: 09/05/2024

TPH
architects

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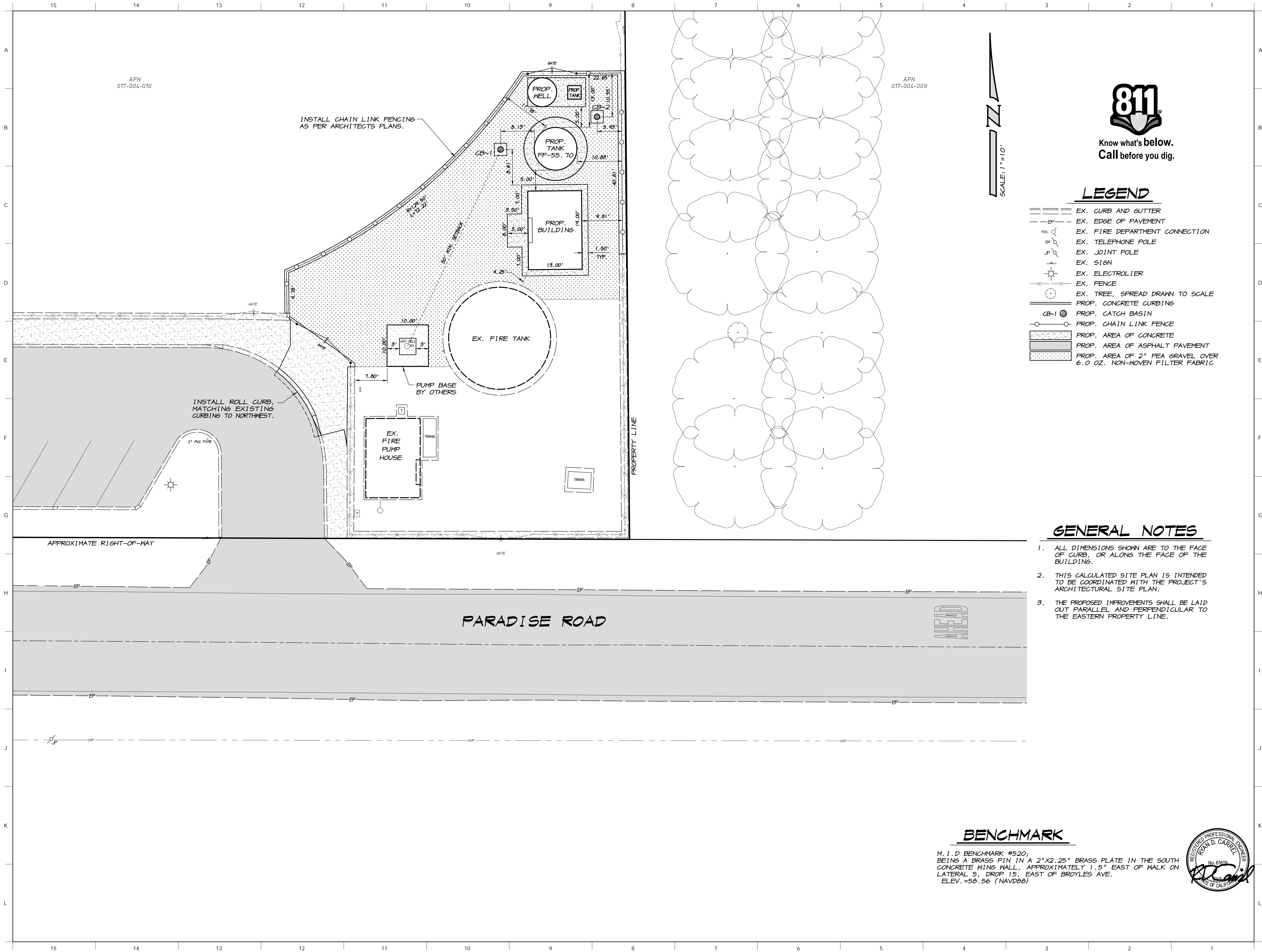
**SHILOH ELEMENTARY
WATER TREATMENT SYSTEM**

6633 PARADISE ROAD MODESTO, CALIFORNIA 95358

SHILOH ELEMENTARY SCHOOL DISTRICT

DEMOLITION PLAN

Project Number	1522
Date	AUG 2024
Drawn by	B.C.F.
Checked by	R.D.C.
C.2	
Plot Date & Time	8/5/2024 11:07:38 AM



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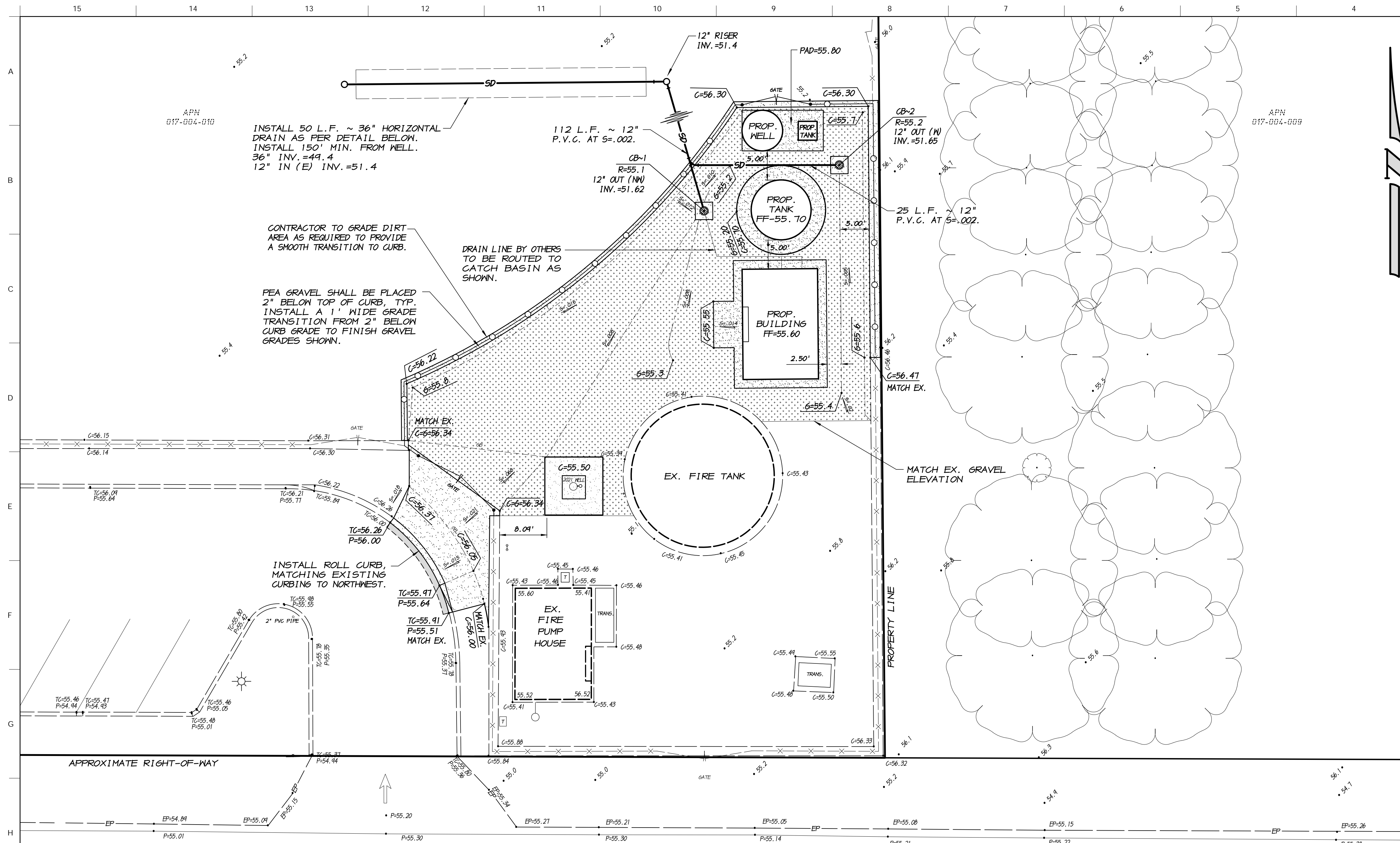
SHILOH ELEMENTARY
WATER TREATMENT SYSTEM

6633 PARADISE ROAD MODESTO, CALIFORNIA 95358
SHILOH ELEMENTARY SCHOOL DISTRICT
HORIZONTAL CONTROL PLAN

Project Number1522
DateAUG 2024
Drawn byB.C.F.
Checked byR.D.C.

C.3

Plot Date & Time8/5/2024 11:07:38 AM

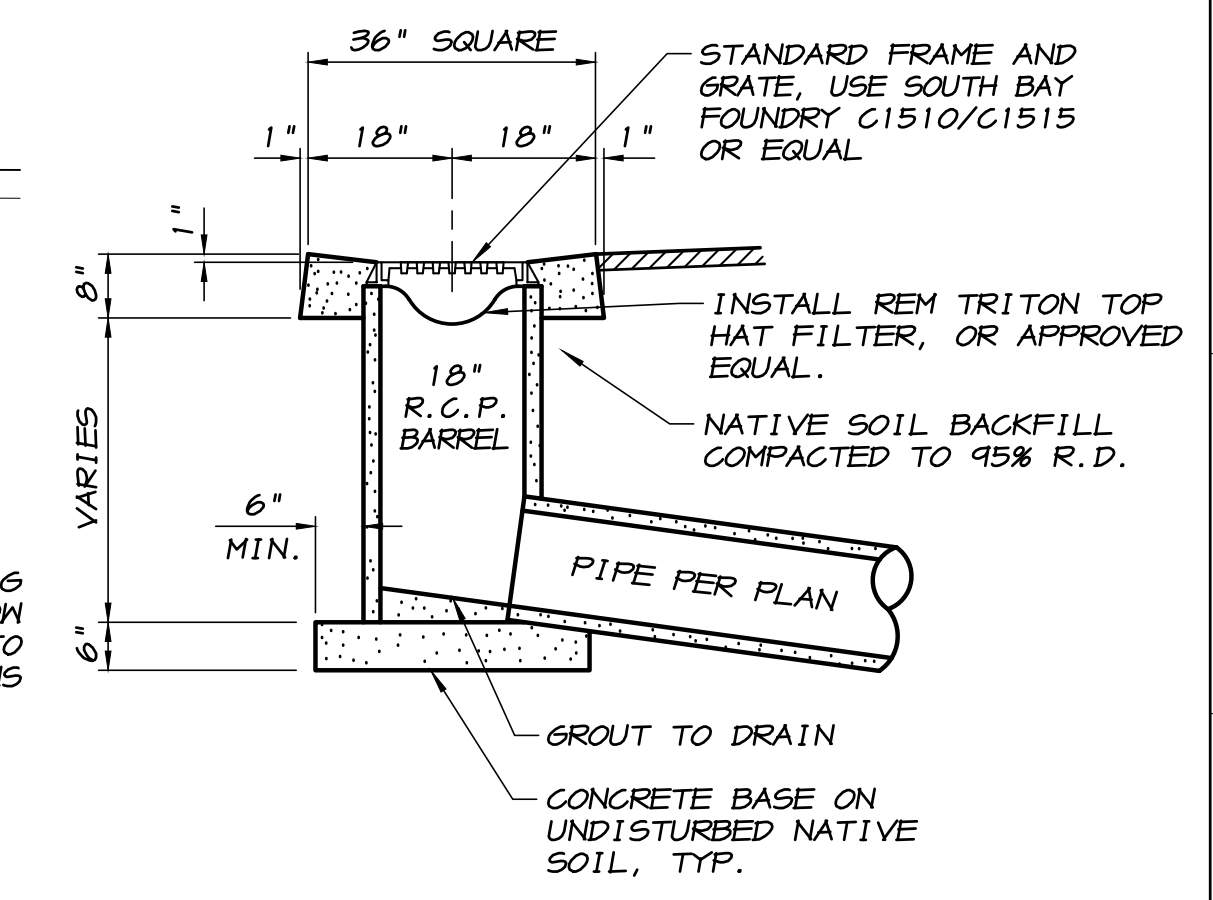


SCALE: 1"=10'



LEGEND

- EX. GROUND ELEVATION
- EX. TOP OF CURB ELEVATION
- EX. FLOWLINE ELEVATION
- EX. EDGE OF PAVEMENT ELEVATION
- EX. A.C. PAVEMENT ELEVATION
- EX. CONCRETE ELEVATION
- EX. CURB AND GUTTER
- EX. EDGE OF PAVEMENT
- EX. WATER LINE
- EX. FIRE DEPARTMENT CONNECTION
- EX. TELEPHONE POLE
- EX. JOINT POLE
- EX. SIGN
- EX. ELECTRICAL CONDUIT
- EX. ELECTROLIER
- EX. FENCE
- EX. TREE, SPREAD DRAWN TO SCALE
- PROP. TOP OF CURB ELEVATION
- PROP. A.C. PAVEMENT ELEVATION
- PROP. CONCRETE ELEVATION
- PROP. RIM ELEVATION
- PROP. FINISH GRAVEL ELEVATION
- PROP. CATCH BASIN
- PROP. SLOPE AND DIRECTION OF FLOW
- PROP. STORM DRAIN LINE
- PROP. CHAIN LINK FENCE
- PROP. AREA OF 4" THICK CONCRETE
- PROP. AREA OF ASPHALT PAVEMENT. USE 0.25" A.C. OVER 0.35" A.B. ON NATIVE SOIL COMPACTED TO 95% R.D.
- PROP. AREA OF 2" PEA GRAVEL OVER 6.0 OZ. NON-WOVEN FILTER FABRIC ON NATIVE SOIL COMPACTED TO 95% R.D.



CATCH BASIN DETAIL
SCALE: 1"=2'

BENCHMARK

M.I.D BENCHMARK #520;
BEING A BRASS PIN IN A 2"x2.25" BRASS PLATE IN THE SOUTH CONCRETE WING WALL, APPROXIMATELY 1.5" EAST OF WALK ON LATERAL 5, DROP 15, EAST OF BROYLES AVE.
ELEV. =50.56 (NAVD88)



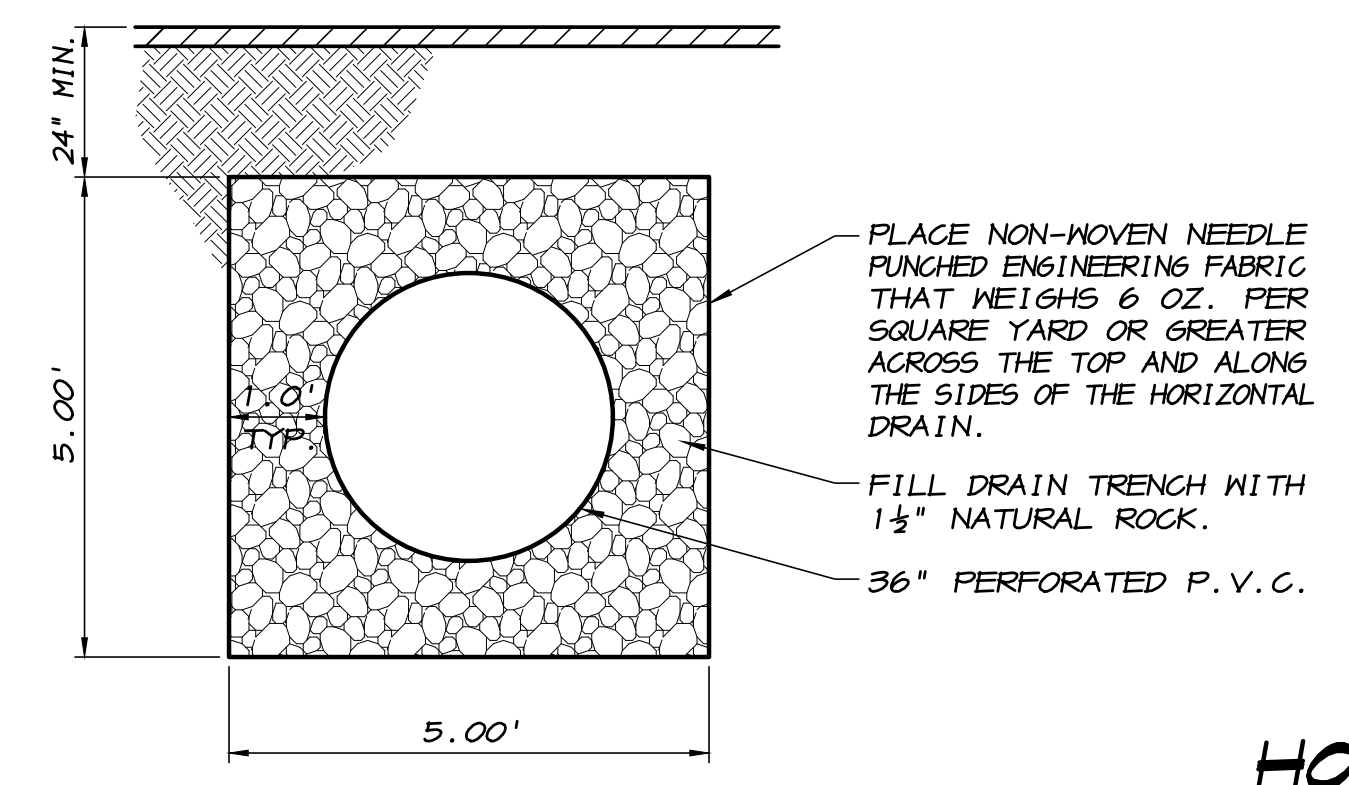
ON-SITE HORIZONTAL DRAIN MATERIAL SPECIFICATION (1 1/2" NATURAL DRAIN ROCK)

THE AGGREGATE MATERIAL TO BE USED FOR THE HORIZONTAL DRAIN IS TO BE 1 1/2" DRAIN ROCK OBTAINED FROM NATURAL MATERIAL ONLY. NO CRUSHED PRODUCT WILL BE ALLOWED.

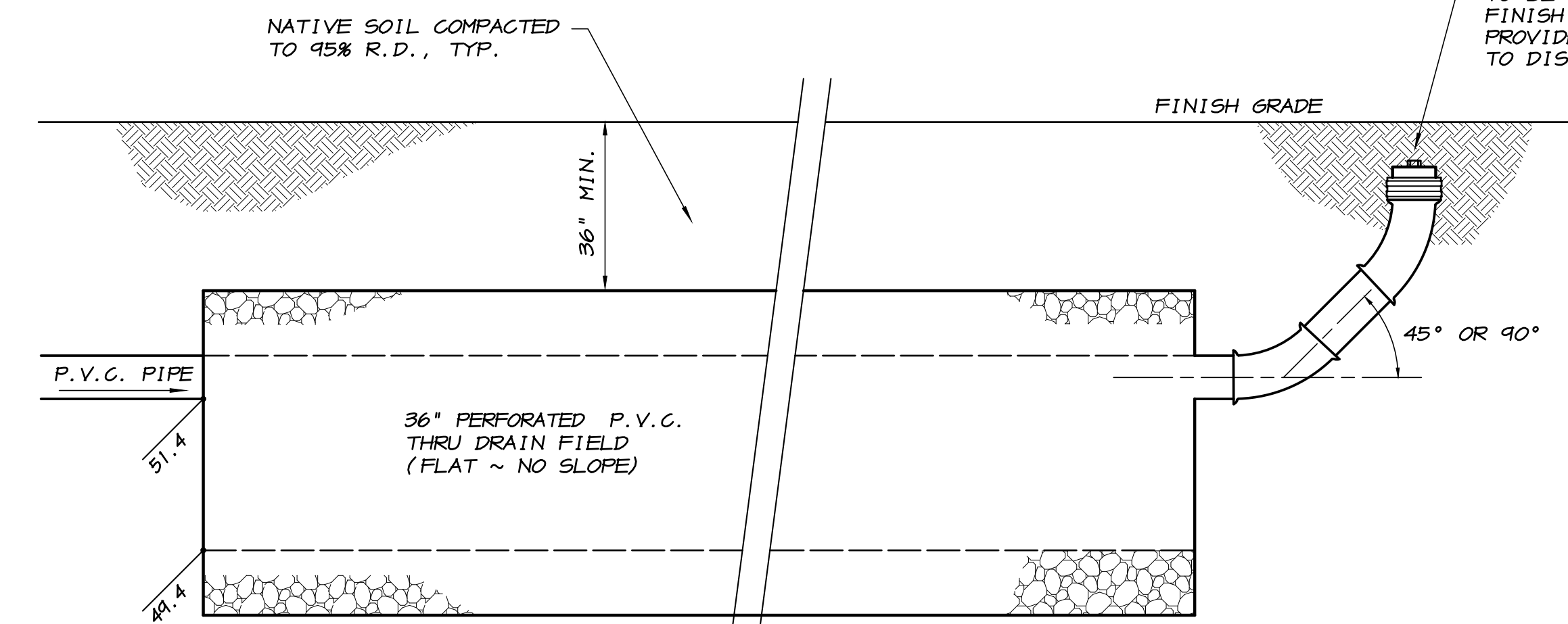
THE SIEVE ANALYSIS OF THE MATERIAL SHALL BE AS FOLLOWS:

SCREEN SIZE	+/- RETAINED	+/- PASSING
2"	0	100
1 1/2"	4	96
3/4" AND BELOW	NOT TO EXCEED 10% PASSING	

A MATERIAL SIEVE ANALYSIS IS TO BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER FOR REVIEW PRIOR TO THE PLACEMENT OF THE ROCK MATERIAL.



HORIZONTAL DRAIN
NO SCALE



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**SHILOH ELEMENTARY
WATER TREATMENT SYSTEM**

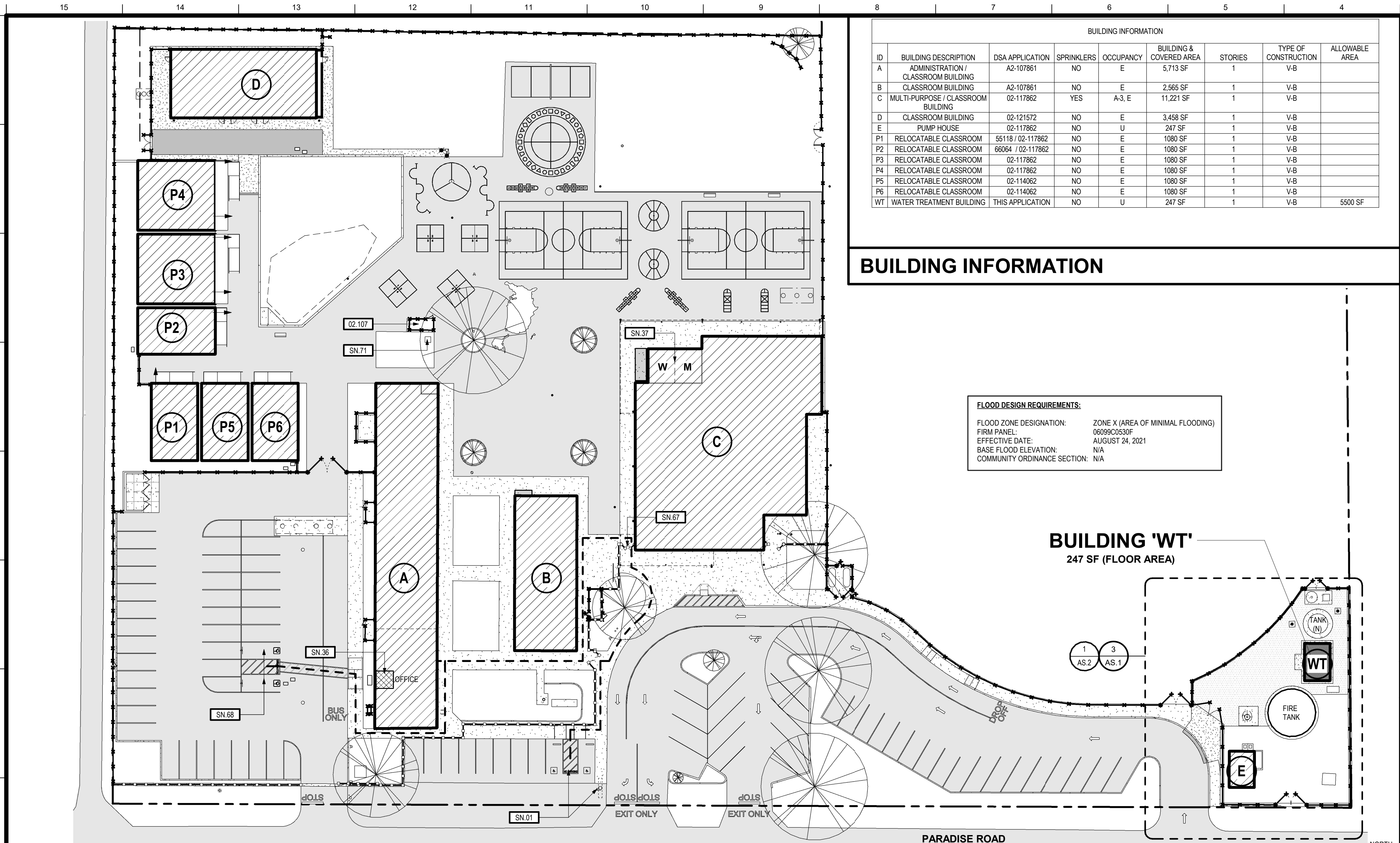
6633 PARADISE ROAD MODESTO, CALIFORNIA 95358
SHILOH ELEMENTARY SCHOOL DISTRICT
GRADING AND DRAINAGE PLAN

Project Number 1522
Date AUG 2024
Drawn by B.C.F.
Checked by R.D.C.

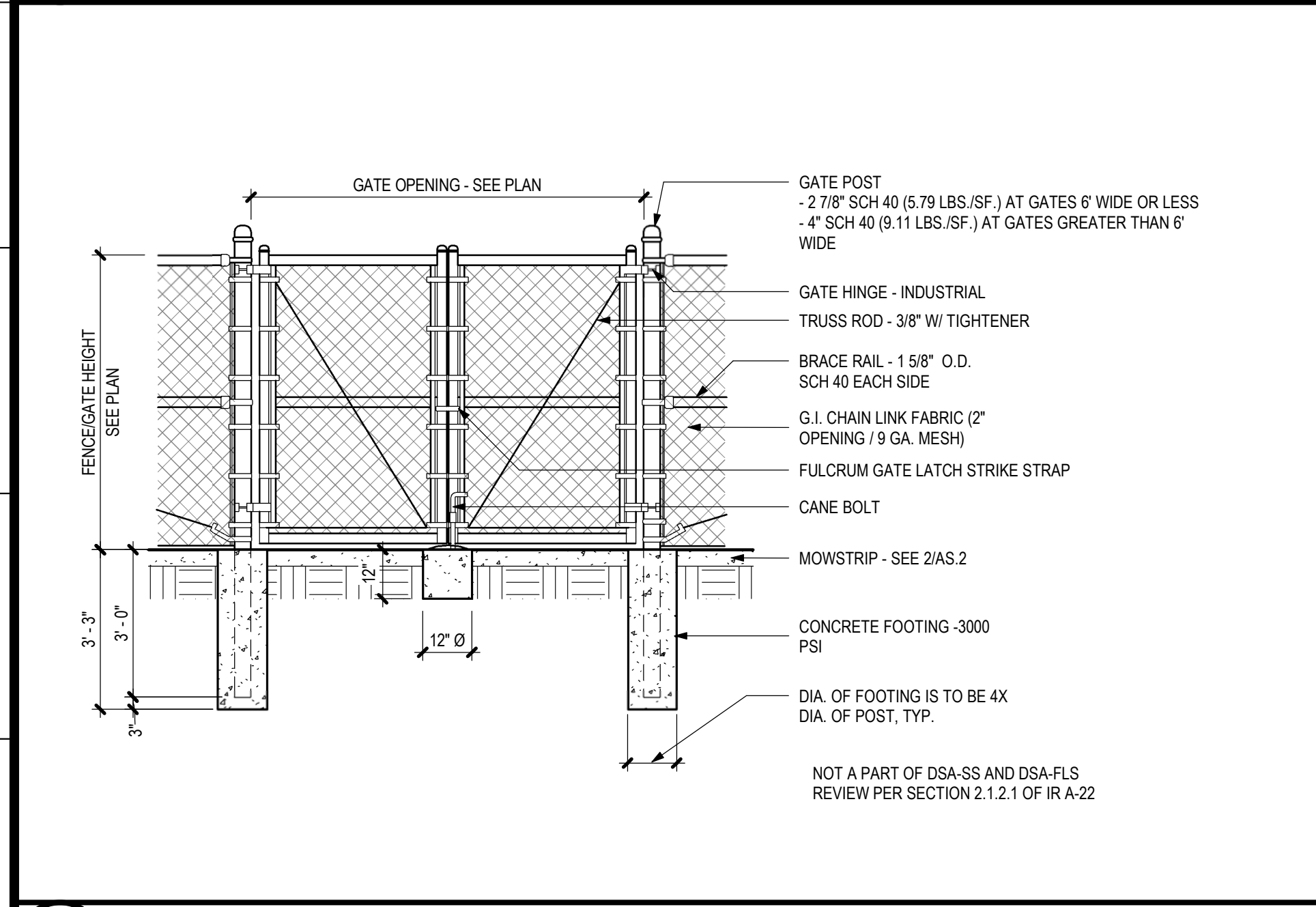
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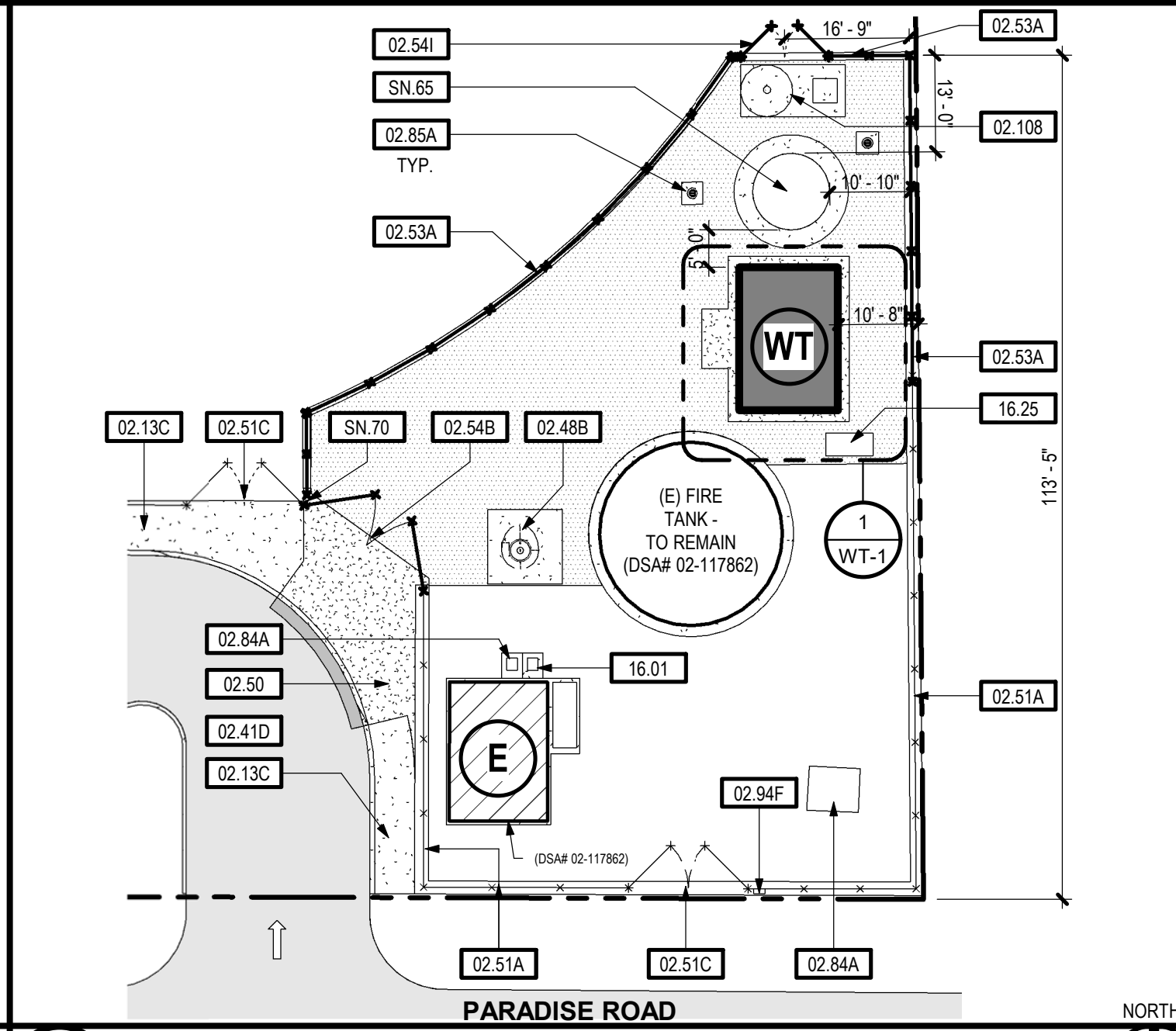
C:\Local\2324 Shiloh Water Treatment Plant_CENTRAL.rvt



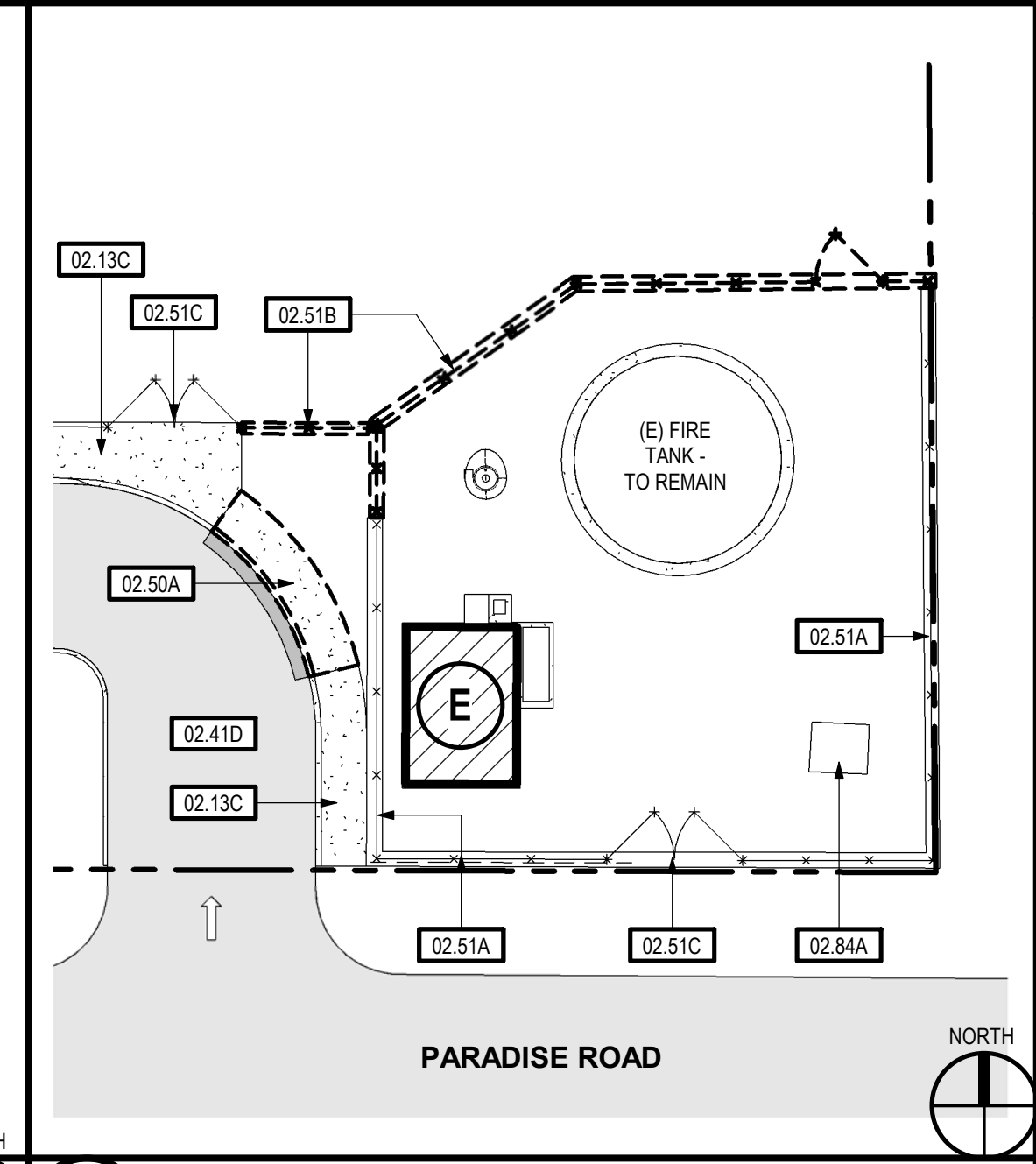
1 SITE PLAN
SCALE: 1" = 30'-0"



4 CHAIN LINK - VEH DOUBLE GATES
SCALE: 3/8" = 1'-0"



3 ENLARGED SITE PLAN
SCALE: 1" = 20'-0"



2 ENLARGED DEMO. SITE PLAN
SCALE: 1" = 20'-0"

KEYNOTES	
02.13C	CONCRETE FLATWORK - (E) TO REMAIN
02.41D	ASPHALT PAVING - EXISTING
02.48B	CONCRETE PUMP BASE - SEE M1/WTP1.3
02.50	CONCRETE CURB / SIDEWALK - NEW - SEE CIVIL DRAWINGS AND DETAILS 1/A.2
02.50A	CONCRETE CURB / SIDEWALK - EXISTING - TO BE REMOVED - SEE CIVIL DRAWINGS
02.51A	CHAIN LINK FENCE AND CONCRETE MOW STRIP - EXISTING - TO REMAIN
02.51B	CHAIN LINK FENCE AND CONCRETE MOW STRIP - EXISTING - TO BE REMOVED - SEE CIVIL DRAWINGS
02.51C	CHAIN LINK GATE (PAIR 8'-0") - EXISTING - TO REMAIN
02.53A	CHAIN LINK FENCE W/ VINYL SLATS (6'-0" TALL - FIELD VERIFY AND MATCH (E)) W/ CONCRETE MOWSTRIP - SEE DETAIL 4/A.2
02.54B	CHAIN LINK SWING GATE W/ VINYL SLATS (PAIR 9'-0" W. X ADJ. FENCE HEIGHT - FIELD VERIFY AND MATCH (E)) - SEE DETAIL 4/A.2
02.54I	CHAIN LINK SWING GATE W/ VINYL SLATS (PAIR 6'-0" W. X ADJ. FENCE HEIGHT - FIELD VERIFY AND MATCH (E)) - SEE DETAIL 4/A.1
02.84A	ELECTRICAL POWER - TRANSFORMER - EXISTING - TO REMAIN
02.85A	STORM DRAIN CATCH BASIN - SEE CIVIL DRAWINGS
02.94F	INSTALL KNOX BOX - SEE DETAIL 2/FGA
02.107	CAMPUS WELL LOCATION - EXISTING - TO REMAIN
02.108	IRRIGATION WELL - SEE P1.0
16.01	ELECTRICAL POWER - TRANSFORMER - SEE ELECTRICAL DRAWINGS
16.25	GENERATOR - SEE ELECTRICAL DRAWINGS

SHEET NOTES	
SN.01	(E) ACCESSIBLE PARKING SPACES AND ACCESSIBLE SITE ENTRY SIGNAGE (A.02-114295)
SN.36	ACCESSIBLE RESTROOMS - STAFF (APP #100632 AND #02-114295)
SN.37	ACCESSIBLE RESTROOMS - STUDENT (APP #02-117862)
SN.65	POTABLE WATER TANK AND CONCRETE FOUNDATION - SEE DETAIL 14/A.2 AND WTP DRAWINGS
SN.67	(E) ORNAMENTAL DOUBLE SWINGING GATES (02-117862)
SN.68	(E) ACCESSIBLE PARKING SPACES AND ACCESSIBLE SITE ENTRY SIGNAGE (A.02-117862)
SN.70	REMOVE (E) GATE POST AND FOOTING AND REPLACE WITH NEW 6" SCH 40 POST AND FOOTING - SEE 4/A.2
SN.71	AT THE EXISTING WATER SYSTEM MANIFOLD VAULT, DISCONNECT THE (E) 4" WATER LINE, BEING FED FROM THE NEW WATER TREATMENT SYSTEM, FROM THE (E) WELL WATER SERVICE LINE. CONNECT THE 4" WATER TREATMENT SYSTEM LINE TO THE (E) TWO (2) - 2" DOMESTIC WATER SYSTEM LINES. THE NEW WATER TREATMENT AND DOMESTIC WATER LINES ARE TO BE ISOLATED FROM THE (E) CAMPUS WELL SOURCE AND CAMPUS IRRIGATION LINES - THE (E) CAMPUS WELL WATER SOURCE IS TO ONLY FEED THE IRRIGATION SYSTEMS

NOTES

	EXISTING BUILDING		NEW AC PAVING
	PROPOSED BUILDING		EXISTING LAWN OR LANDSCAPE AREA - SEE LANDSCAPE DRAWINGS
	EXISTING CONCRETE FLATWORK TO REMAIN		REPAIRED LAWN - SEE LANDSCAPE DRAWINGS
	NEW CONCRETE FLATWORK		PLAYPIT
	EXPANSION / CONSTRUCTION JOINT		GRAVEL (NEW) - TO MATCH EXISTING GRAVEL
	CONTROL JOINT		
	EXISTING AC PAVING		

SITE LEGEND

(ACS) ACCESS COMPLIANCE

THE PATH OF TRAVEL (P.O.T.) IS A COMMON BARRIER FREE ACCESS ROUTE AT LEAST 48" WIDE WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL. THE P.O.T. IS SLIP RESISTANT, STABLE, FIRM AND SMOOTH. PASSING SPACES (11B-403.3.3) AT LEAST 60"x60" ARE LOCATED NOT MORE THAN 200' APART. PARTS OF P.O.T. WITH CONTINUOUS GRADIENTS HAVE 60" LEVEL AREAS (11B-403.7) NOT MORE THAN 400' APART. THE CROSS-SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED. (P.O.T.) SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTION TO 80" MINIMUM (11B-307.4) & PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80" (11B-307.2). GRID OPENINGS OF GRATINGS IN THE P.O.T. SHALL NOT EXCEED 1/2" IN THE DIRECTION OF TRAFFIC FLOW.

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT: THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISION FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THE PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NONCOMPLIANT 1) HAVE BEEN IDENTIFIED AND 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTION OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATION OR FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS.

DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

PATH OF TRAVEL NOTES

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SHILOH ELEMENTARY WATER TREATMENT SYSTEM

6633 PARADISE ROAD MODESTO, CALIFORNIA 95358
SHILOH ELEMENTARY SCHOOL DISTRICT

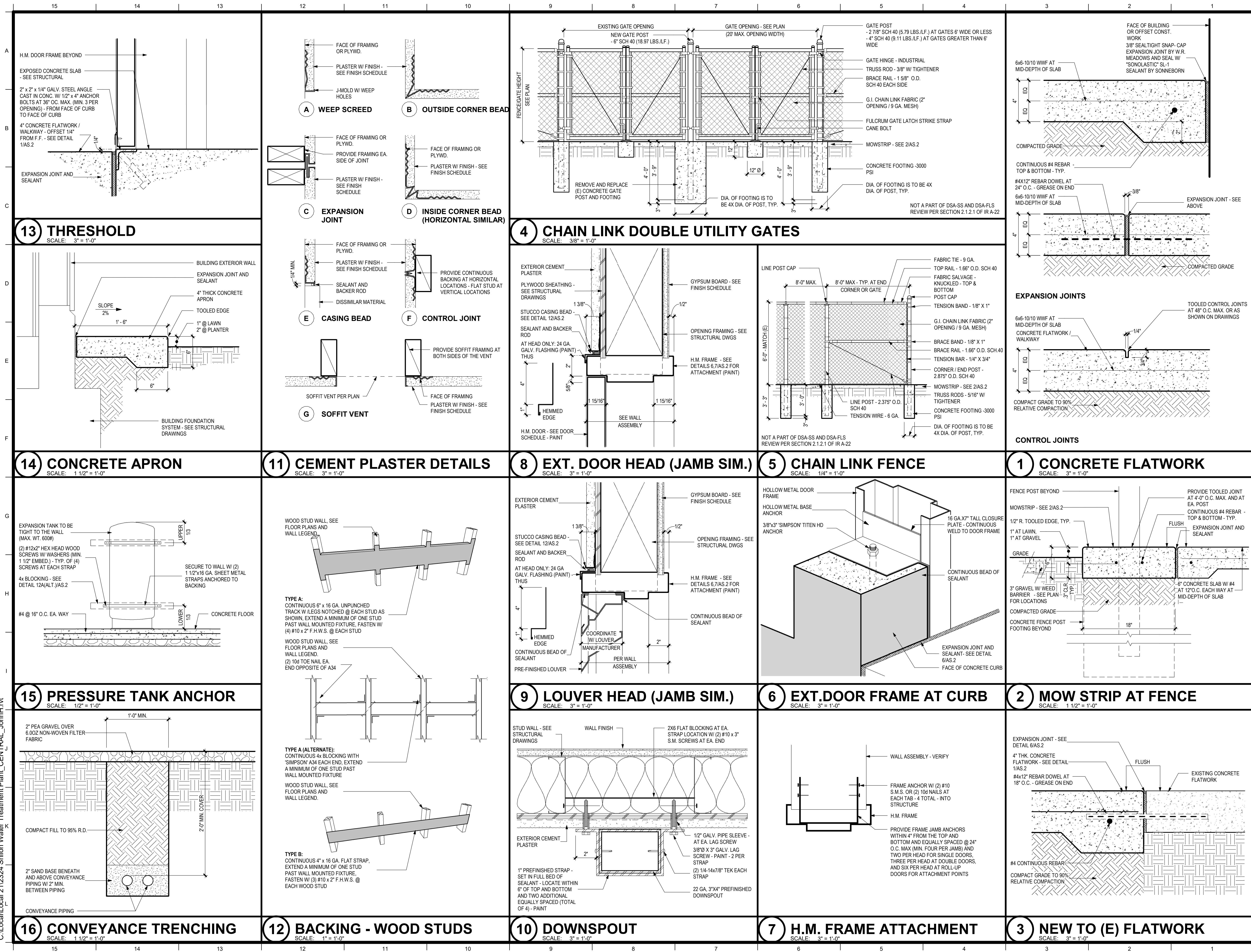
SITE PLANS

Project Number 2324
Date JAN 2024
Drawn by CI
Checked by JH/TPH

AS.1

Plot Date & Time 8/29/2024 8:42:44 AM

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SHILOH ELEMENTARY
WATER TREATMENT SYSTEM

6633 PARADISE ROAD MODESTO, CALIFORNIA 95358
SHILOH ELEMENTARY SCHOOL DISTRICT

DETAILS

Project Number 2324

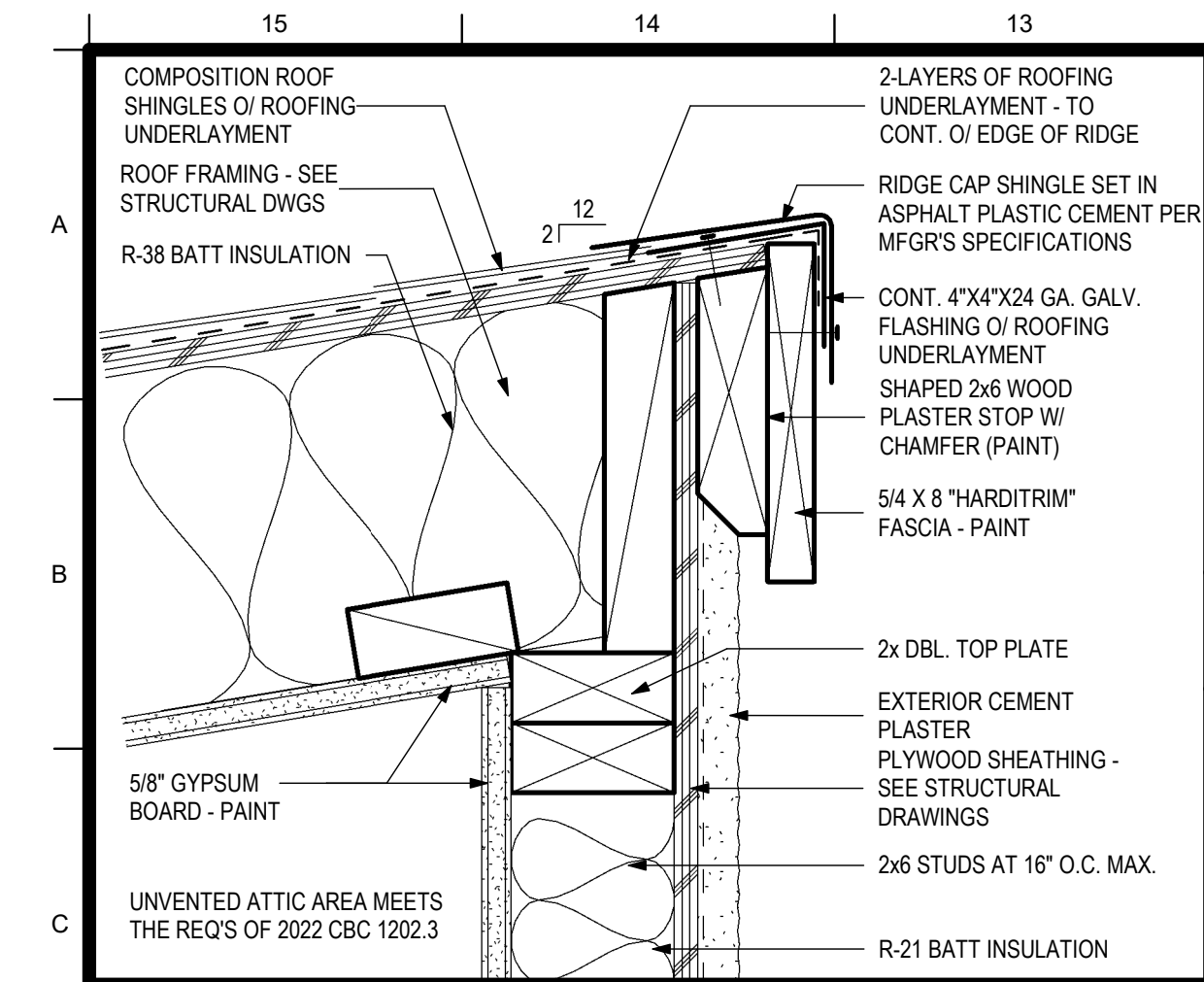
Date JAN 2024

Drawn by RRM

Checked by JH

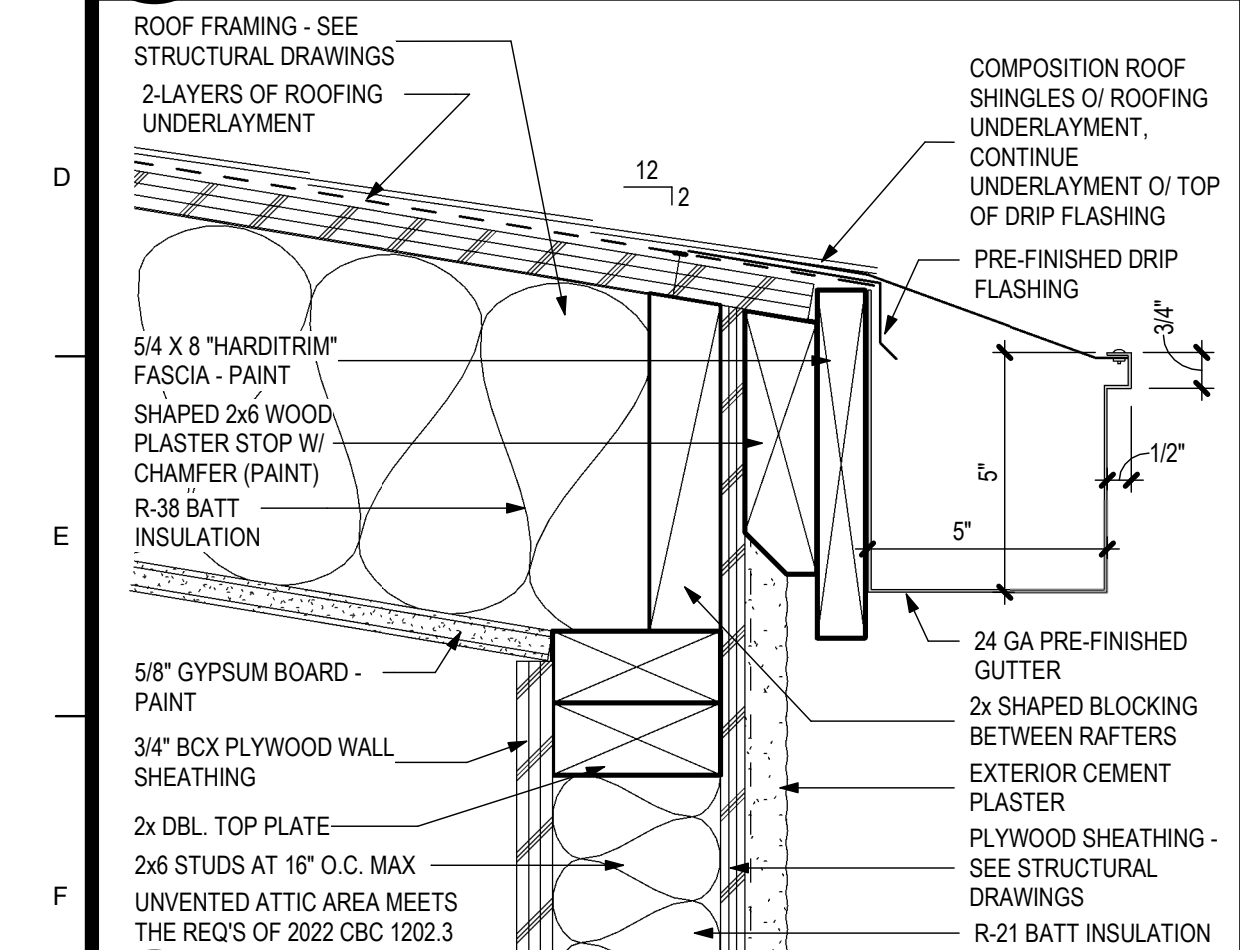
AS.2

Plot Date & Time 7/19/2024 9:50:11 AM



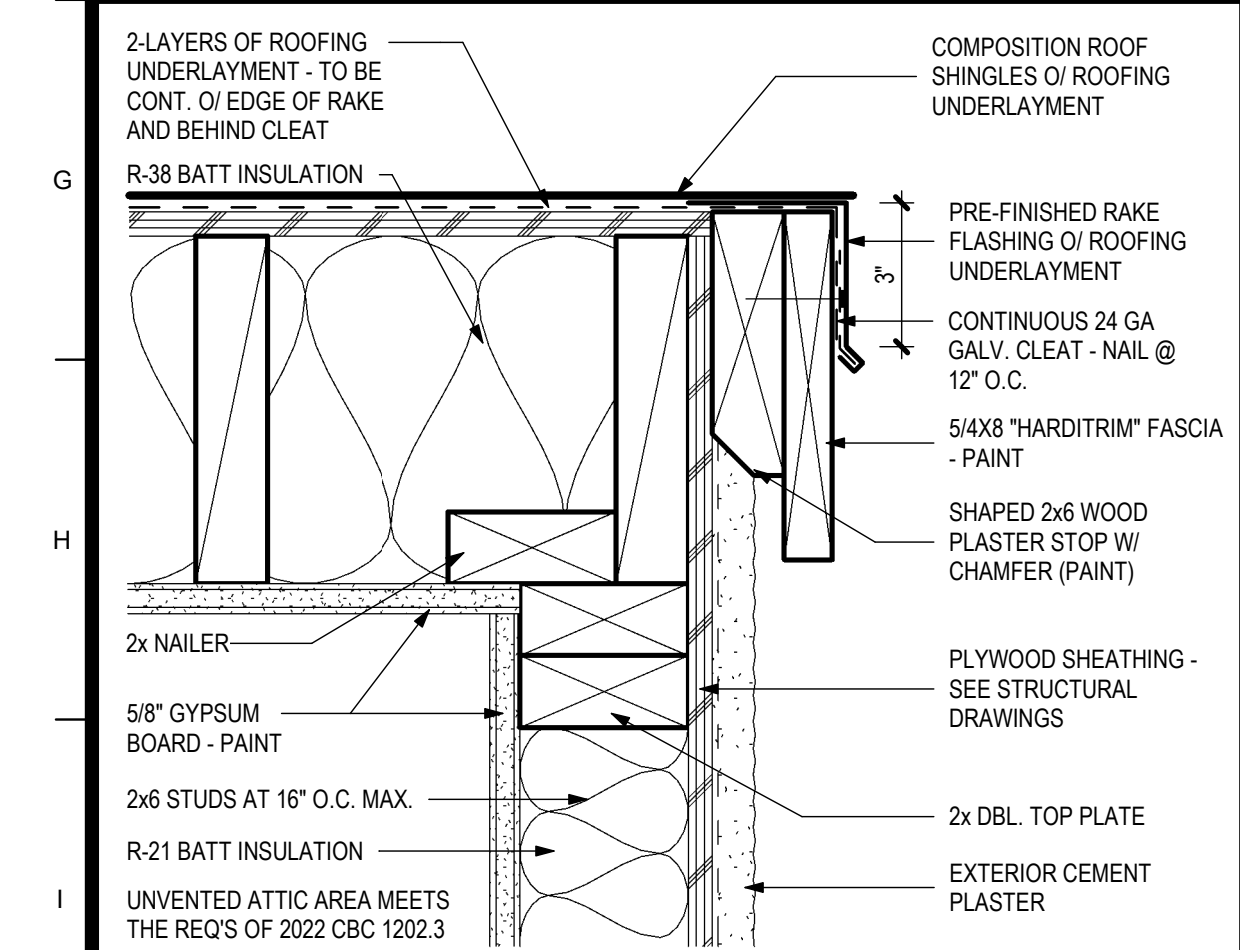
8 FASCIA AT RIDGE

SCALE: 3" = 1'-0"



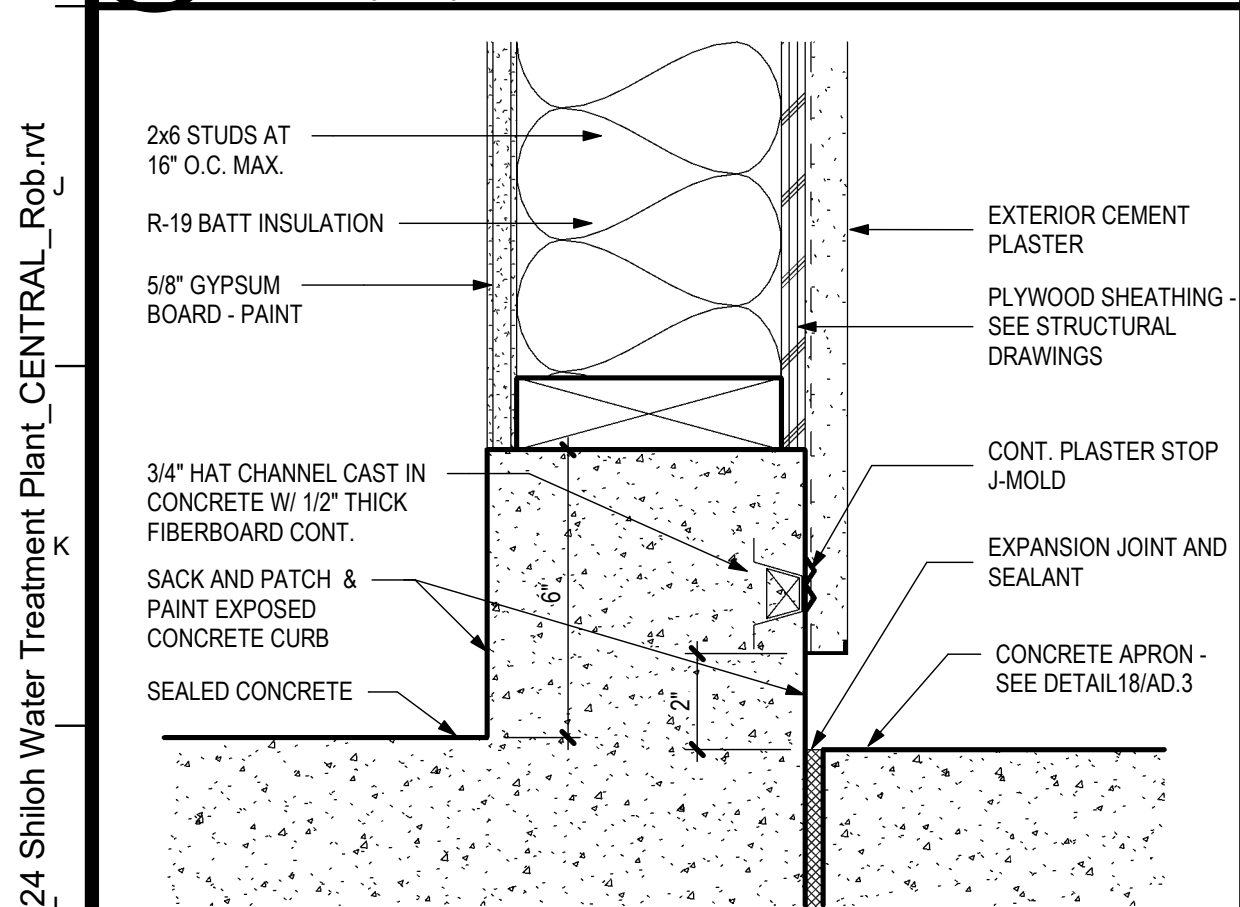
9 FASCIA AT EAVE

SCALE: 3" = 1'-0"



10 FASCIA AT RAKE

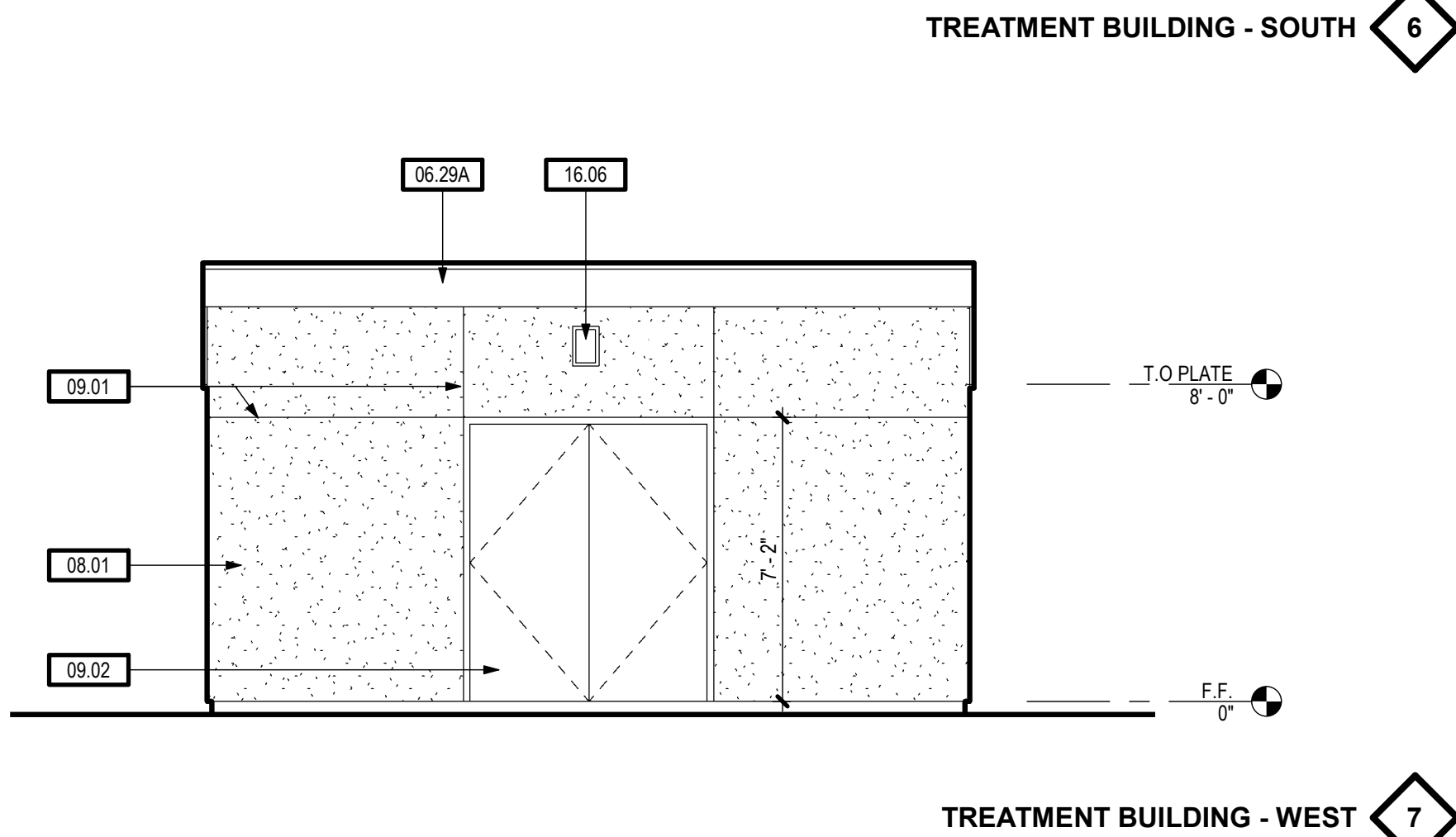
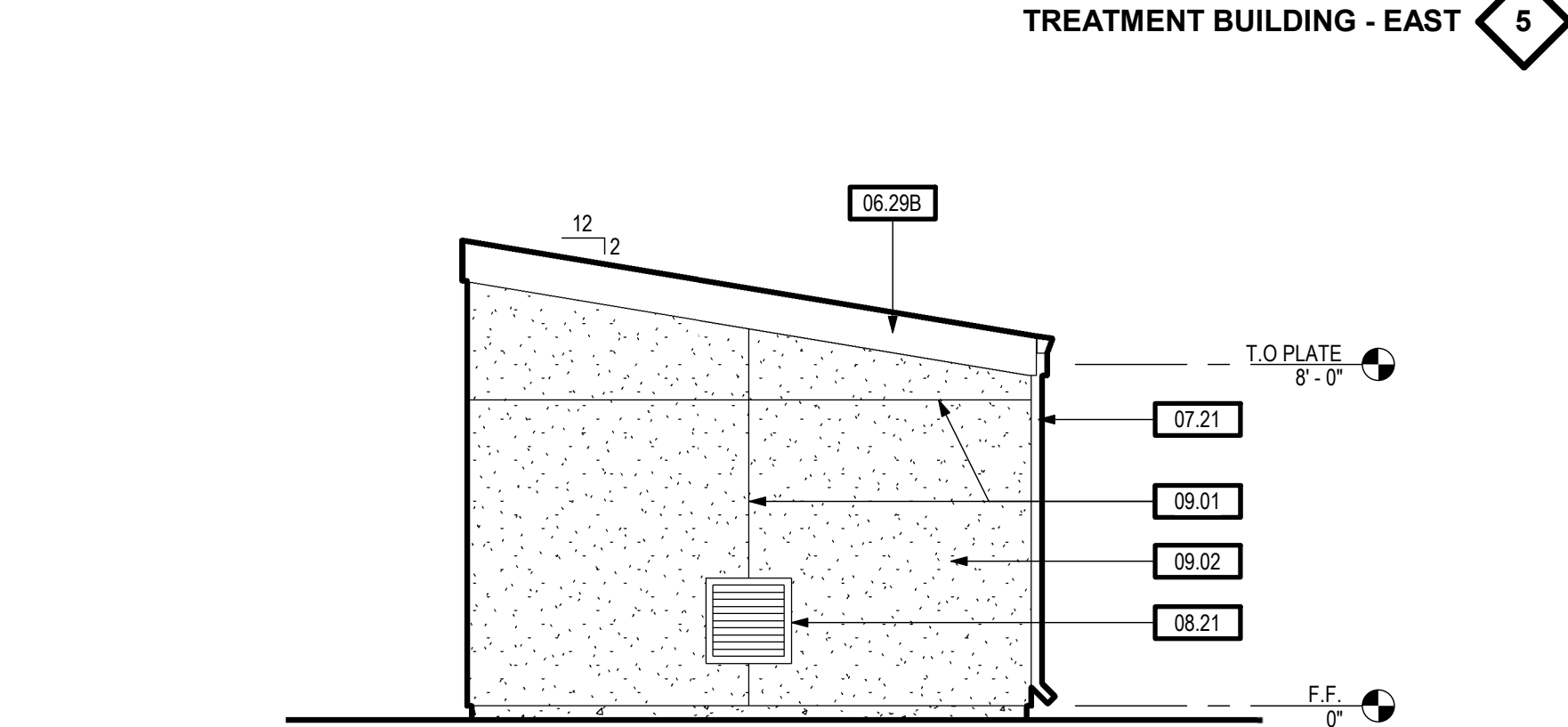
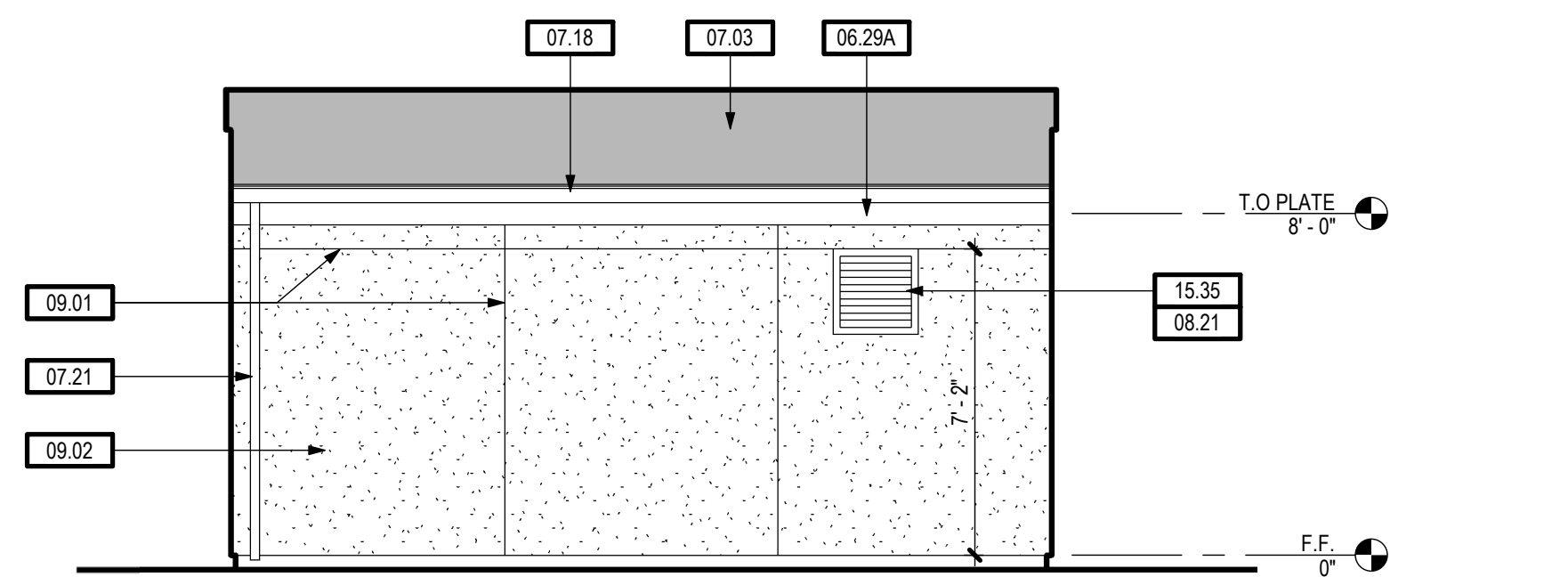
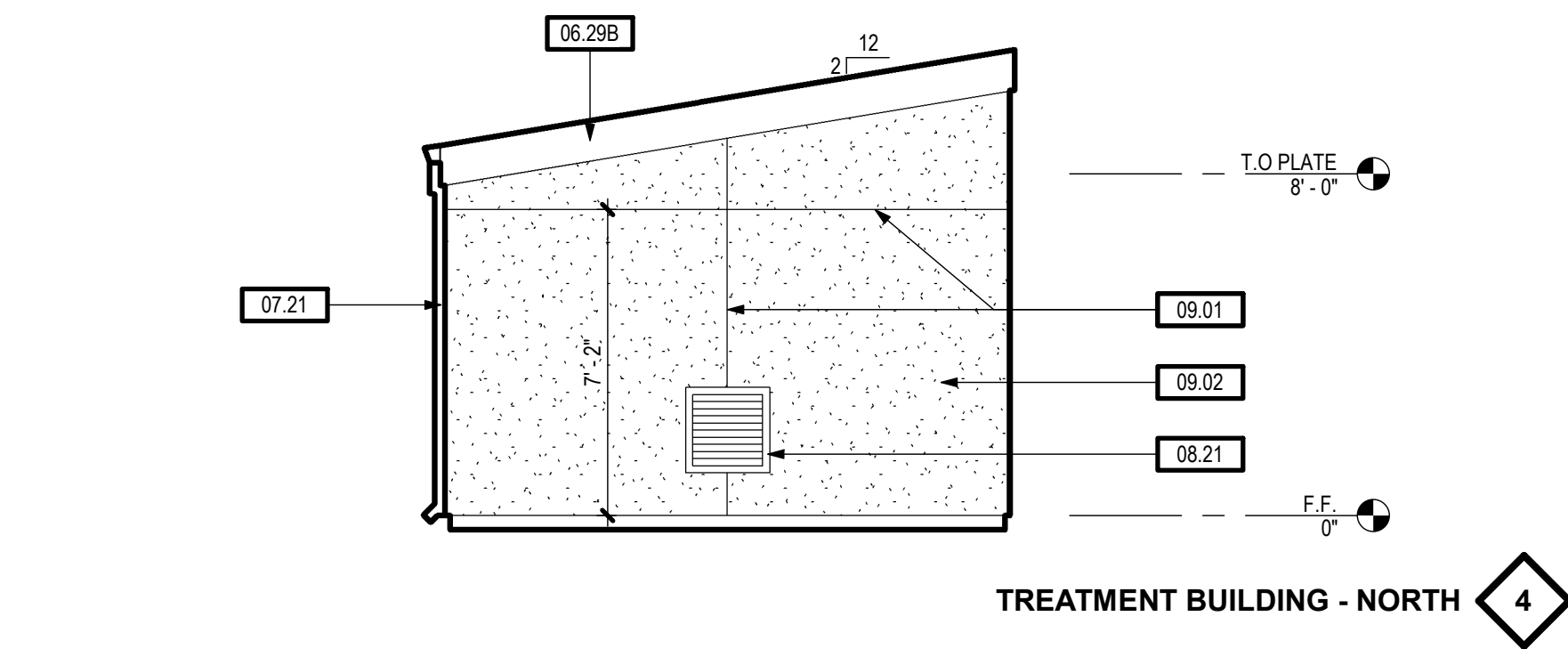
SCALE: 3" = 1'-0"



11 PERIMETER CURB

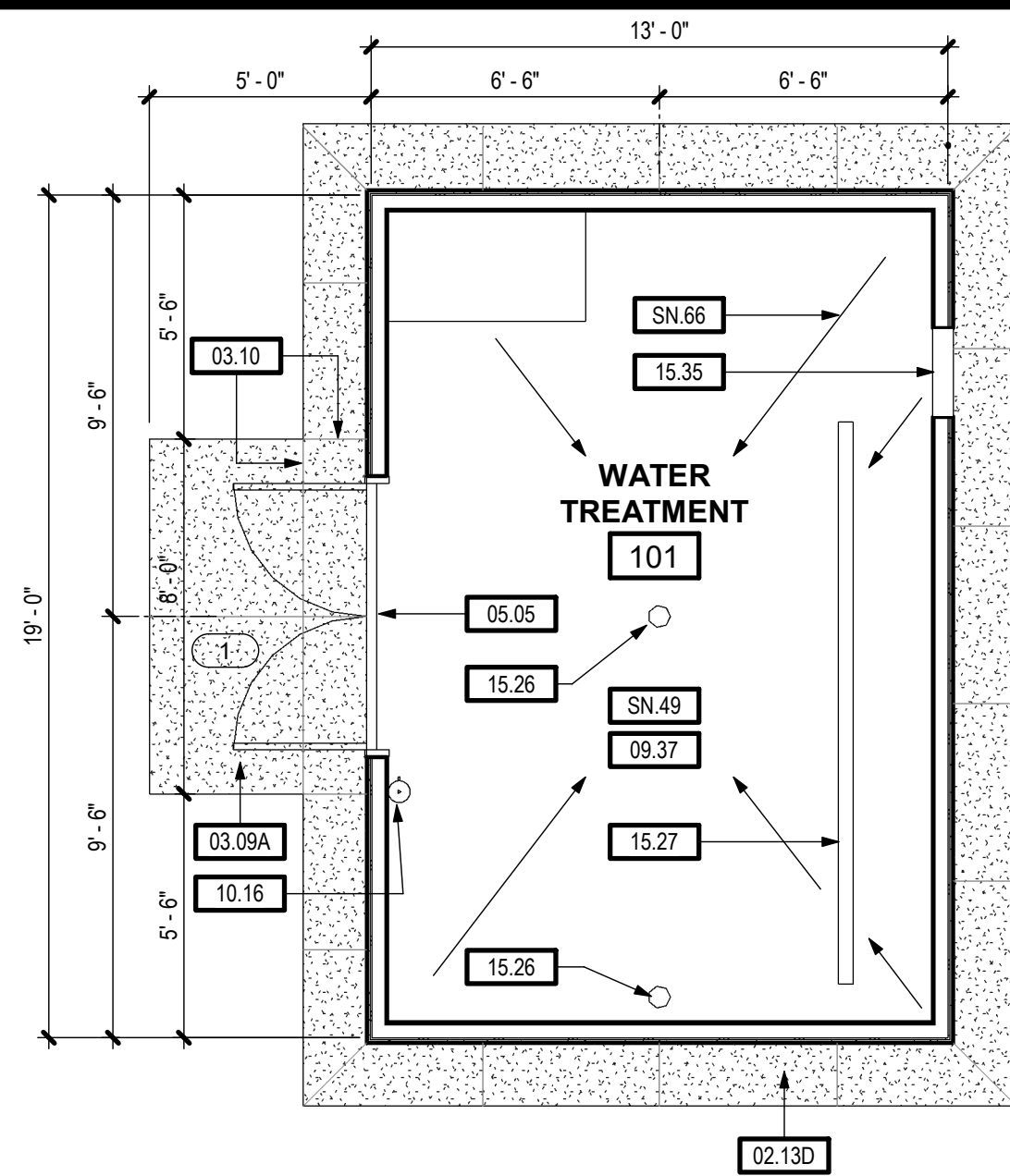
SCALE: 3" = 1'-0"

DOOR SCHEDULE - PUMP HOUSE										
DOORS			FRAMES			DETAILS				
MARK	WIDTH	HEIGHT	TYPE	THICKNESS	MATERIAL	HDW. GRP.	MATERIAL	TYPE	HEAD / JAMB	THRESHOLD
1	6'-0"	7'-0"	E	1 3/4"	H.M.	1	H.M.	1	8/AS.2	12/AS.2



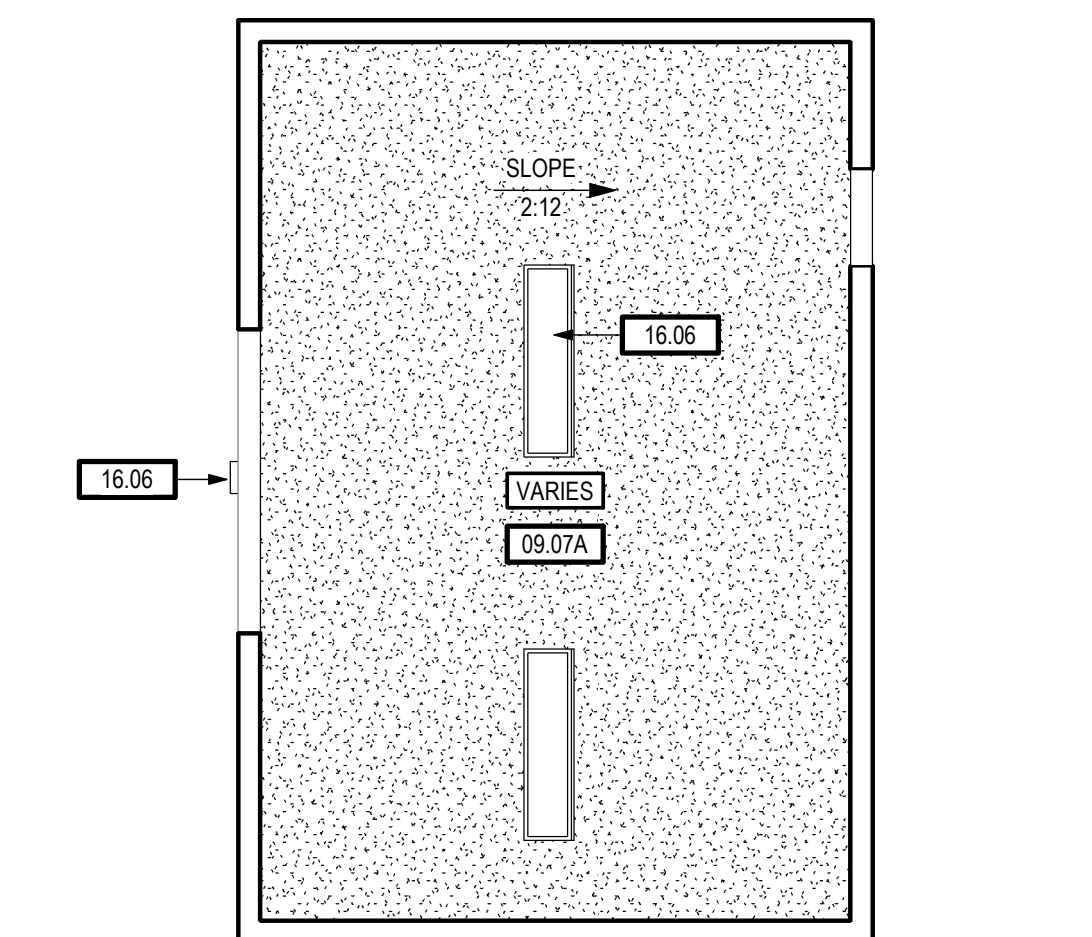
EXTERIOR ELEVATIONS

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



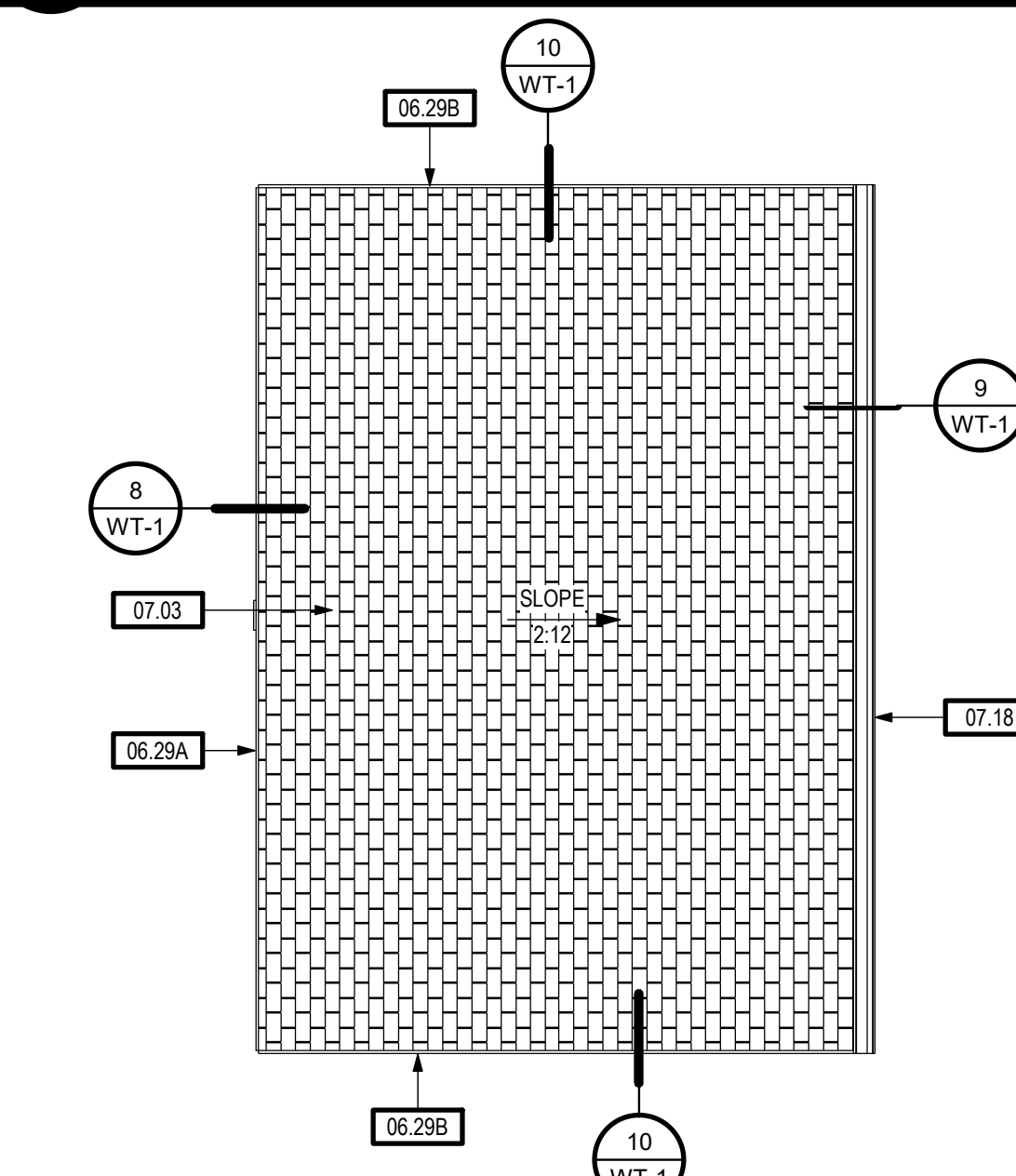
1 FLOOR PLAN

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



2 REFLECTED CEILING PLAN

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



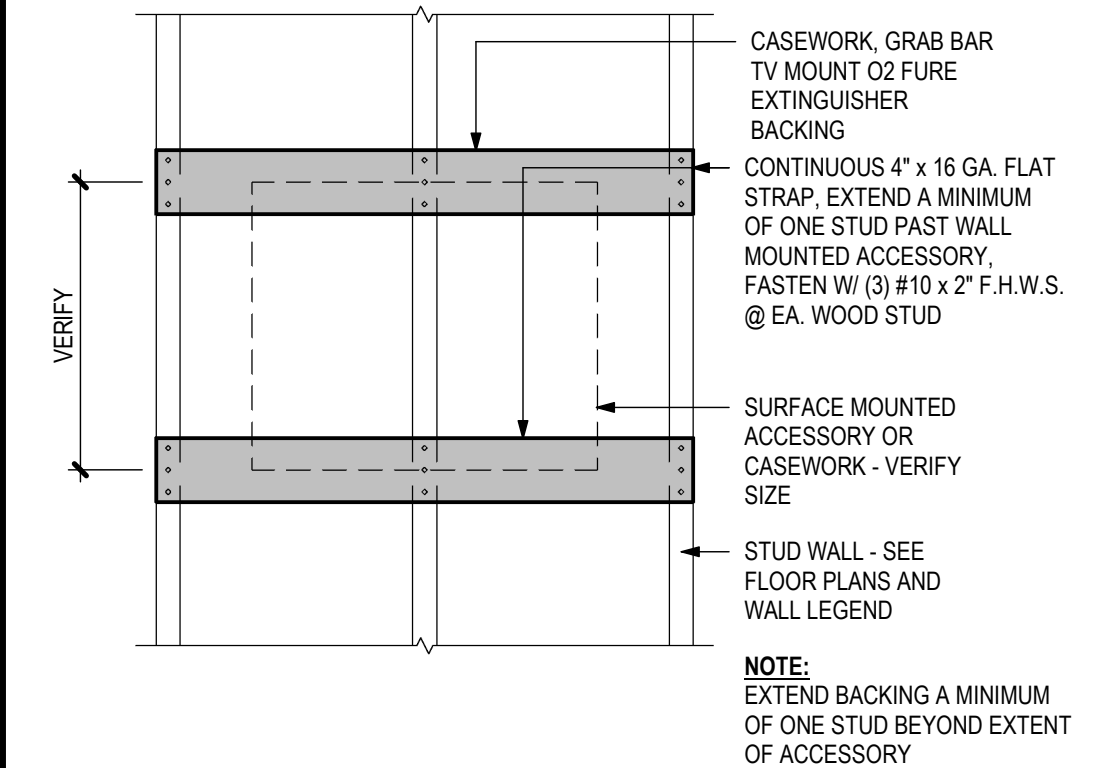
3 ROOF PLAN

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

KEYNOTES	
02.13D	CONCRETE APRON - 18" WIDE x 4" THK. SLOPED 1:48 AWAY FROM THE BUILDING - SEE DETAILS 18AS.2 AND 18AS.2
03.09A	CONCRETE PLATWORK / APRON - SEE DETAIL 11/AS.2
03.10	CONCRETE CONTROL JOINTS AT 48"OC MAX.
05.05	EMBEDDED GALV. ANGLE - SEE DETAIL 13/AS.2
06.29A	FASCIA
06.29B	RAKE FASCIA
07.03	ROOFING - COMPOSITION SHINGLES
07.18	GUTTER - PRE-FINISHED - 9WT-1
07.21	DOWNSPOUT - PRE-FINISHED - SEE DETAIL 10/AS.2
08.01	DOOR - HOLLOW METAL w/ H.M. FRAME
08.21	WALL LOUVER - 24"x24" - SEE DETAIL 9/AS.2
09.01	CONTROL JOINT
09.02	CEMENT PLASTER - EXTERIOR - SEE DETAIL 11/AS.2
09.07A	5/8" GYPSUM BOARD - PAINT
09.37	FLOOR FINISH - EXPOSED SEALED CONCRETE
10.16	FIRE EXTINGUISHER - WALL MOUNTED - 2A-10BC - SEE DETAIL 12/WT-1
15.26	PLUMBING - FLOOR DRAIN - SEE WATER TREATMENT DRAWINGS
15.27	PLUMBING - TRENCH DRAIN - SEE WATER TREATMENT DRAWINGS
15.35	WALL EXHAUST FAN - AER-20-03-0615-VTG, 300 CFM, 0.1" SP, 1/4 HP, 71F, 1.9 SONES, 37 dba, 476 RPM
16.06	LIGHTING - SEE ELECTRICAL DRAWINGS

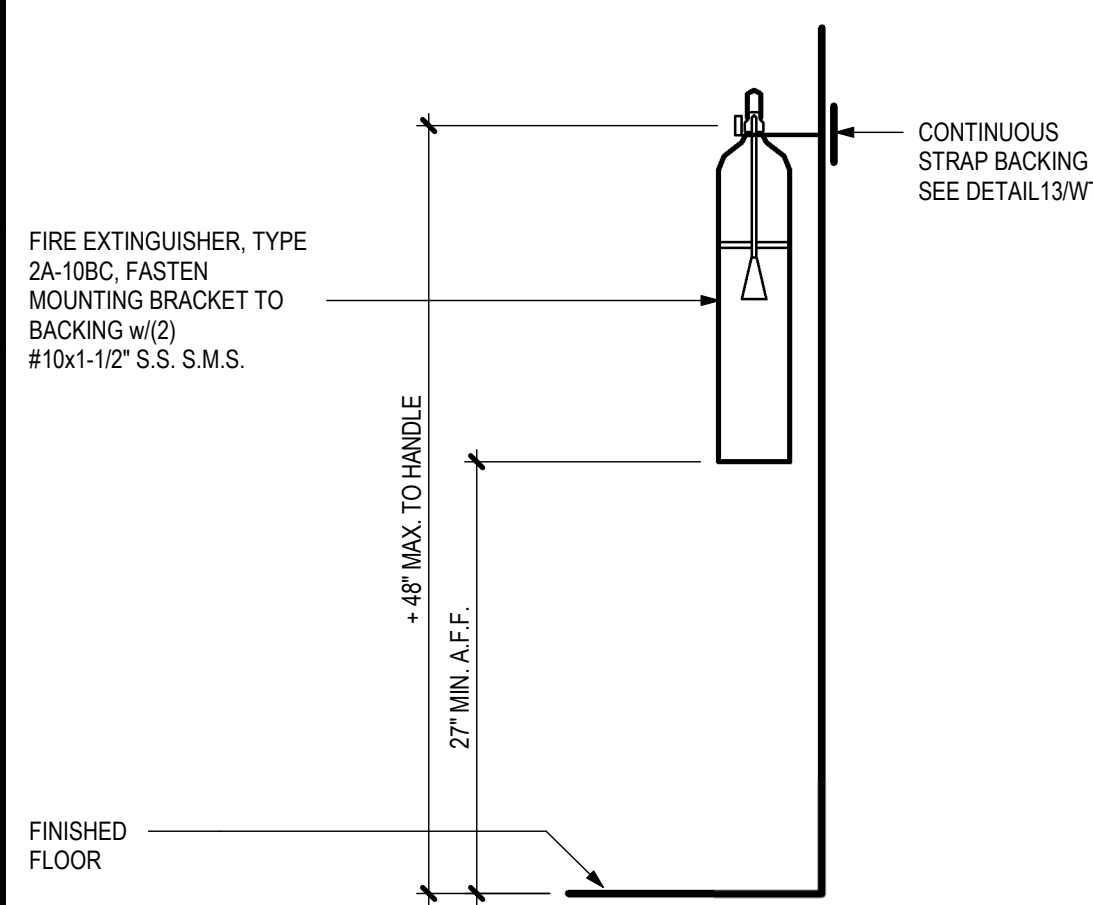
SHEET NOTES	
SN.49	WATER TREATMENT BUILDING - SEE SHEET WT-1 AND WATER TREATMENT DRAWINGS AND ELECTRICAL DRAWINGS
SN.66	SLOPE CONCRETE FLOOR 1% TO FLOOR DRAIN

NOTES



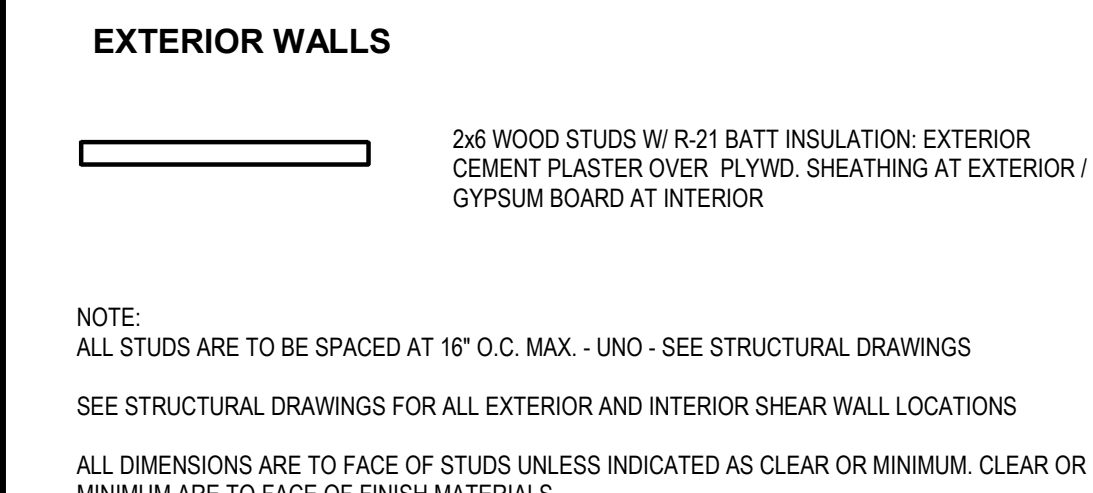
13 BACKING - ACCESSORIES

SCALE: 1" = 1'-0"



12 FIRE EXTINGUISHER

SCALE: 1" = 1'-0"

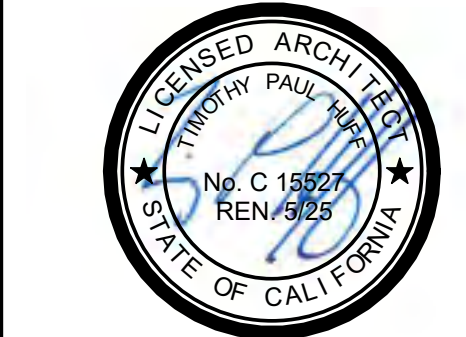


WALL LEGEND

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-122118 INC.
REVIEWED FOR
SS ☐ FLS ☐ ACS ☐
DATE: 09/05/2024

TPH
architects

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Consultants

**SHILOH ELEMENTARY
WATER TREATMENT SYSTEM**

6633 PARADISE ROAD MODESTO, CALIFORNIA 95358
SHILOH ELEMENTARY SCHOOL DISTRICT
WATER TREATMENT BUILDING

Project Number 2324
Date JAN 2024
Drawn by CI
Checked by JH

WT-1

Plot Date & Time 7/18/2024 4:40:22 PM

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

ABBREVIATIONS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-122118 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 09/05/2024

5 THE MAIN WIND- OR SEISMIC-FORCE-RESISTING SYSTEM, DESIGNATED
SEISMIC OR A WIND- OR SEISMIC-FORCE-RESISTING COMPONENTS ARE
AS FOLLOWS:

- a THE WOOD AND LIGHT GAGE STEEL STUD SHEARWALLS.
 - b THE PLYWOOD ROOF DIAPHRAGM.
 - c SHEARWALL HOLDOWN BOLTING.
 - d THE BOLTING OF THE SHEARWALLS TO THE FOUNDATION.
 - e SEISMIC DRAG BEAMS, BEAM ANCHORAGE TO THE SHEARWALLS, AND THE DRAG BEAM SPLICES.
 - f CONCRETE FOOTINGS UNDER THE SHEARWALLS.
- 6 EPOXY ANCHORS: CONTINUOUS SPECIAL INSPECTIONS AND TEST FOR "SIMPSON SET-3G ADHESIVE ANCHOR SYSTEMS" TO THE CONCRETE SHEARWALLS TO BE PROVIDED FOR EACH SECTION 1705A.1.1. FOR SPECIFIC DETAILED INSPECTIONS AND TESTS REQUIRED REFER TO ES REPORT ESR-4057 BY ICC EVALUATION SERVICES, INC.

ADJ	ADJACENT
ALT	ALTERNATE
A BOLT(S)	ANCHOR BOLT(S)
ARCH DRWGS	ARCHITECTURAL DRAWINGS
@	AT
BM	BEAM
BRG	BEARING
BLK	BLOCK
BLKG	BLOCKING
BOT	BOTTOM
BRDG	BRIDGING
CBC	CALIFORNIA BUILDING CODE
CL	CENTER LINE
CTRD	CENTERED
CLR	CLEAR
COL	COLUMN
CONC	CONCRETE
CMU	CONCRETE MASONRY UNIT
CONSTR	CONSTRUCTION
CONT	CONTINUOUS
CTRSK	COUNTERSINK
DIAG	DIAGONAL
DIA	DIAMETER
DBL	DOUBLE
DF	DOUGLAS FIR (LARCH)
DRWGS	DRAWINGS
(E)	EXISTING
EA	EACH
EXIST	EXISTING
FTG	FOOTING
FNDN	FOUNDATION
FLR	FLOOR
FRAM	FRAMING
GL	GRID LINE
GLB	GLUED-LAMINATED BEAM
HORIZ	HORIZONTAL
ICC	INTERNATIONAL CODE COUNCIL
MAX	MAXIMUM
MIN	MINIMUM
N/A	NOT APPLICABLE
(N)	NEW
NTS	NOT TO SCALE
OPT	OPTIONAL
PAF	POWDER ACTUATED FASTENERS
PERPEN	PERPENDICULAR
PL	PLATE
PLY	PLYWOOD
PREMAN	PREMANUFACTURED
PRESS TRTD	PRESSURE TREATED
REINF	REINFORCING
REQD	REQUIRED
SCHED	SCHEDULE
SHT	SHEET
SIM	SIMILAR
SMS	SHEET METAL SCREW
SQ	SQUARE
STD	STANDARD
STL	STEEL
TOEN	TOE-NAIL
T & B	TOP & BOTTOM
TPI	TRUSS PLATE INSTITUTE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
W/	WITH

- 1 DESIGN ROOF LOADS:

TYP ROOF
DL ----- 20.0 PSF
LL ----- 20.0 PSF
- 2 FOR SPECIAL INSPECTION REQUIREMENTS REFER TO THE GENERAL STRUCTURAL NOTES AND ANY ADDITIONAL REQUIREMENTS PER THE DIVISION OF THE STATE ARCHITECT.
- 3 PROVIDE TOP PLATE SPLICE PER C1 TYP UNLESS SHOWN OR NOTED OTHERWISE.
- 4 DRILLING OF HOLES, DRIVING OF HEAVY SCREWS OR USE OF LAG BOLTS IN THE BOTTOM OF THE ROOF JOISTS, EXCEPT AS NOTED ON THE DRAWINGS, IS NOT PERMITTED. DO NOT CUT OR DRILL ROOF JOISTS, EXCEPT AS NOTED ON THE DRAWINGS.

BASIC WIND SPEED: 105 MPH
WIND EXPOSURE: EXPOSURE "C"
RISK CATEGORY: III

SEISMIC IMPORTANCE FACTOR: $I_e = 1.25$

SHORT TERM SPECTRAL RESPONSE: $S_s = 0.836$ $S_{DS} = 0.669$

1 SECOND SPECTRAL RESPONSE: $S_1 = 0.311$ $S_{D1} = 0.412$

SEISMIC DESIGN CATEGORY: "D"

BASIC SEISMIC FORCE RESISTING SYSTEM: LIGHT FRAMED WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE (ASCE 7-16 TABLE 12.2-1, ITEM A.15)

SEISMIC RESPONSE COEFFICIENT: $C_s = 0.129$
RESPONSE MODIFICATION FACTOR: $R = 6.5$

DESIGN BASE SHEAR: $C_s \times$ EFFECTIVE SEISMIC WEIGHT OF THE BUILDING
ANALYSIS DESIGN PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE

1 STRUCTURAL STEEL: SPECIAL INSPECTION OF THE FOLLOWING IS
REQUIRED PER CBC SECTION 1705A.2 AND CBC TABLE 1705A.2.1:

a WELDING INSPECTION SHALL BE IN COMPLIANCE WITH AWS D1.1.

- b. CONTINUOUS INSPECTION OF WELDING IS REQUIRED FOR: COMPLETE AND PARTIAL PENETRATION GROOVE WELDS; MULTIPASS FILLET WELDS; AND SINGLE PASS GROOVE WELDS GREATER THAN 5/16".
- c. PERIODIC INSPECTIONS OF WELDING IS REQUIRED FOR: SINGLE PASS FILLET WELDS LESS THAN OR EQUAL TO 5/16" (PROVIDED THE MATERIALS, WELDING PROCEDURES, AND QUALIFICATIONS OF WELDERS ARE VERIFIED PRIOR TO THE START OF WORK).
PERIODIC INSPECTIONS ARE MADE OF THE WORK IN PROGRESS AND A VISUAL INSPECTION OF ALL WELDS IS MADE PRIOR TO COMPLETION OF SHOP WELDING.

- d CONTINUOUS INSPECTION OF REINFORCING STEEL:
- 1 VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A706.
- 2 REINFORCING AT BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE SHEARWALLS ("HOLDOWNS").

- e SPECIAL INSPECTION OF STRUCTURAL LOAD-BEARING MEMBERS AND ASSEMBLIES IS GOVERNED BY CBC 1704A.2.5.

- 2 CONCRETE CONSTRUCTION: SPECIAL INSPECTION AND TESTING OF THE
CONCRETE CONSTRUCTION IS REQUIRED PER CBC SECTION 1705A.3
AND CBC TABLE 1705A.3

- a PERIODIC INSPECTION OF REINFORCING STEEL
- b PERIODIC INSPECTION VERIFYING THE USE OF THE REQUIRED DESIGN MIX
- c PERIODIC INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES

- d. CONTINUOUS INSPECTION AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.

- e CONTINUOUS INSPECTION OF POST INSTALLED ANCHORS.

- 4 WOOD AND LIGHT GAGE STEEL STUD CONSTRUCTION: SPECIAL INSPECTION OF SITE-BUILT ASSEMBLIES SHALL BE IN ACCORDANCE WITH CBC SECTION 1705A.5, 1705A.10.2, AND 1705A.11.3

- a PERIODIC INSPECTION IS REQUIRED PER CBC SECTION 1705A.10.1 AND 1705A.11.2 FOR ALL SEISMIC AND WELD RESISTING ELEMENTS (ROOF DIAPHRAGMS AND SHEARWALLS). SPECIAL INSPECTION IS REQUIRED FOR THESE ELEMENTS OF THE ROOF DIAPHRAGMS AND PLYWOOD SHEARWALLS: PLYWOOD PANEL, GRADE AND THICKNESS, THE NAIL SIZE AND SPACING, THE ROOF FRAMING MEMBER SIZE, GRADE AND SPACING, THE WALL STUD SIZE, GRADE AND SPACING, THE WALL TOP PLATE SIZE, GRADE AND SPLICE CONNECTION, THE WALL SILL PLATE SIZE, GRADE AND ANCHOR BOLTING, WALL HIGH CONNECTION TO THE WALL STUD AND ANCHOR BOLTING TO THE FOUNDATION, ALL SPECIAL DRAG STRAPPING OR CONNECTIONS.

- b PERIODIC INSPECTION PER CBC SECTION 1705A.10.1 AND 1705A.11.2 IS REQUIRED FOR NAILING, BOLTING, ANCHORING AND OTHER FASTENING OF COMPONENTS WITHIN THE SEISMIC-AND-WIND-FORCE-RESISTING SYSTEM INCLUDING WOOD SHEARWALLS, WOOD DIAPHRAGMS, DRAG STRUTS, BRACES, SHEAR PANELS AND HOLDOWNS

**PROOF TEST VALUES FOR "SIMPSON"
STRONG-BOLT 2 ANCHORS**

ANCHOR DIAMETER (INCHES)	MINIMUM EMBEDMENT DEPTH (INCHES)	TORQUE FORCE INTO NORMAL WEIGHT CONC 3000 PSI
3/8"	1 1/2"	30 FT-#
1/2"	2 1/4"	60 FT-#
5/8"	2 3/4"	90 FT-#
3/4"	3 3/8"	150 FT-#
1"	4 1/2"	230 FT-#

NOTE: TORQUE TESTING OF THE "SIMPSON" STRONG-BOLT 2 ANCHORS ARE TO BE PROVIDED AS FOLLOWS (PER 2022 CBC SECTION 1910A.5 AND ICC ESR 3037):

1. 10% OF THE ANCHORS ARE TO BE TESTED FOR ALL SILL PL BOLTING APPLICATIONS
2. 50% OR ALTERNATE BOLTS IN A GROUP, INCLUDING AT LEAST ONE-HALF THE ANCHORS IN EACH GROUP, SHALL BE TESTED FOR NON-STRUCTURAL APPLICATIONS SUCH AS EQUIPMENT ANCHORAGE.
3. ALL OF THE ANCHORS ARE TO BE TESTED FOR OTHER STRUCTURAL APPLICATIONS.

1 "SIMPSON" STRONG BOLT 2 ANCHOR

PROOF TEST VALUES FOR "HILTI" KWIK BOLT TZ2 ANCHORS		
ANCHOR DIAMETER (INCHES)	MINIMUM EMBEDMENT DEPTH (INCHES)	TORQUE FORCE INTO NORMAL WEIGHT CONC 3000 PSI
3/8"	1 1/2"	25 FT-#
1/2"	2 1/4"	40 FT-#
5/8"	2 3/4"	60 FT-#
3/4"	3 3/8"	110 FT-#

NOTE: TORQUE TESTING OF THE "HILTI" KWIK BOLT TZ2 ANCHORS ARE TO BE PROVIDED AS FOLLOWS (PER 2022 CBC SECTION 1910A.5 AND ICC ESR 4266):

1. 10% OF THE ANCHORS ARE TO BE TESTED FOR ALL SITUATIONS OF PL BOLTING APPLICATIONS
2. 50% OR ALTERNATE BOLTS IN A GROUP, INCLUDING AT LEAST ONE-HALF THE ANCHORS IN EACH GROUP, SHALL BE TESTED FOR NON-STRUCTURAL APPLICATIONS SUCH AS EQUIPMENT ANCHORAGE.
3. ALL OF THE ANCHORS ARE TO BE TESTED FOR OTHER STRUCTURAL APPLICATIONS.

2 "HILTI" KWIK BOLT TZ2 ANCHOR

A	BOLT PROOF LOADING	
S1.2		NO SCALE

**SHILOH ELEMENTARY
WATER TREATMENT SYSTEM**

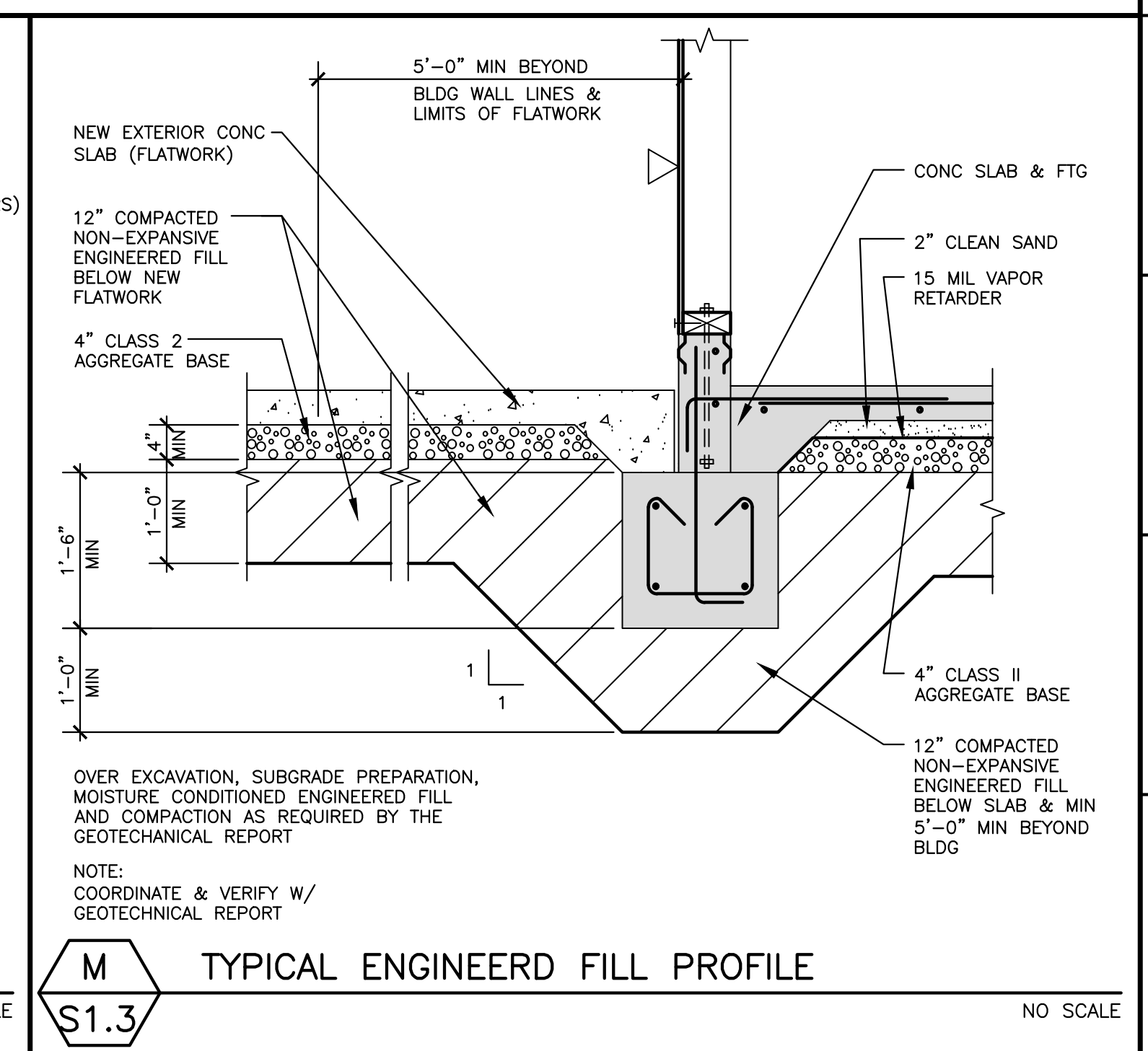
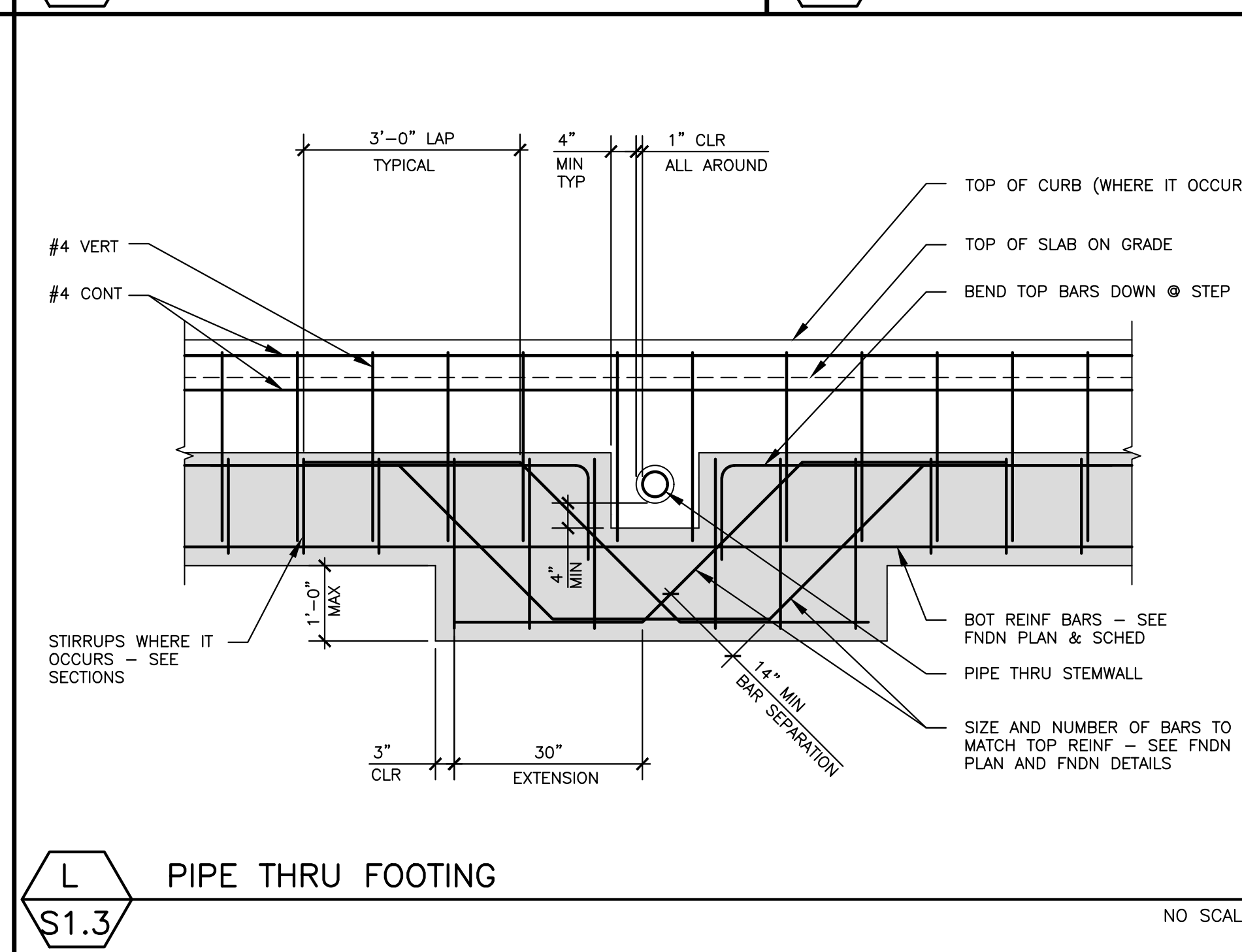
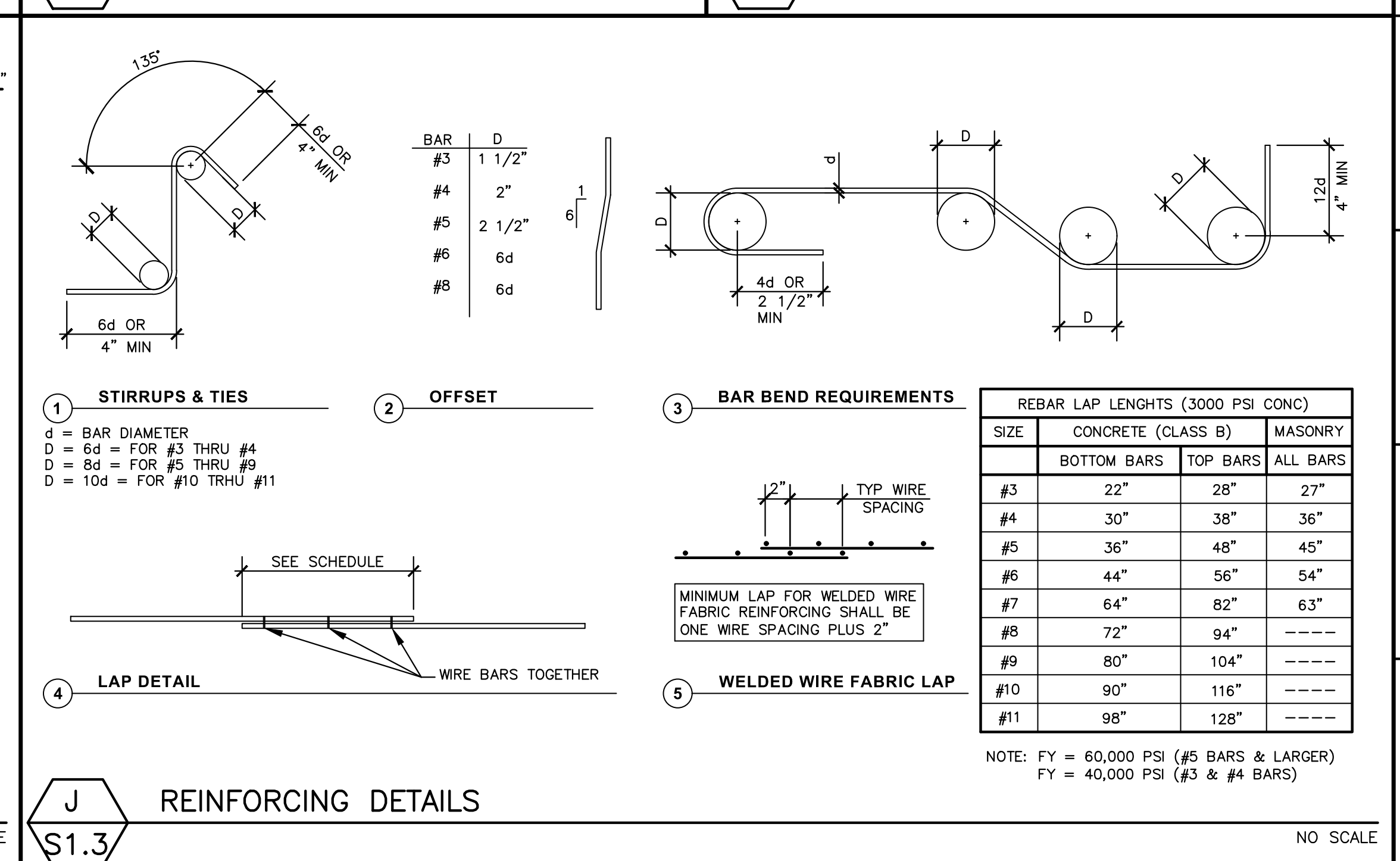
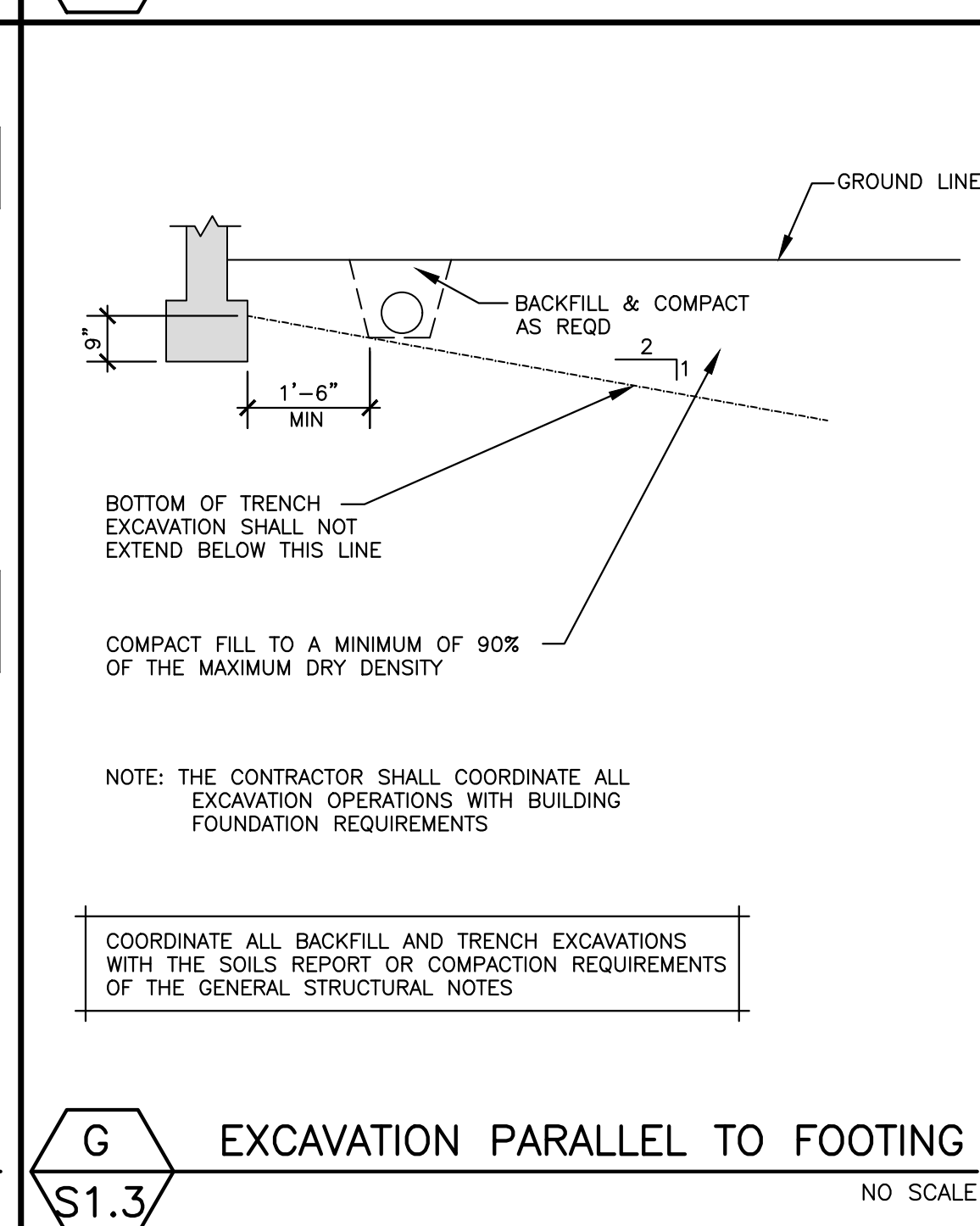
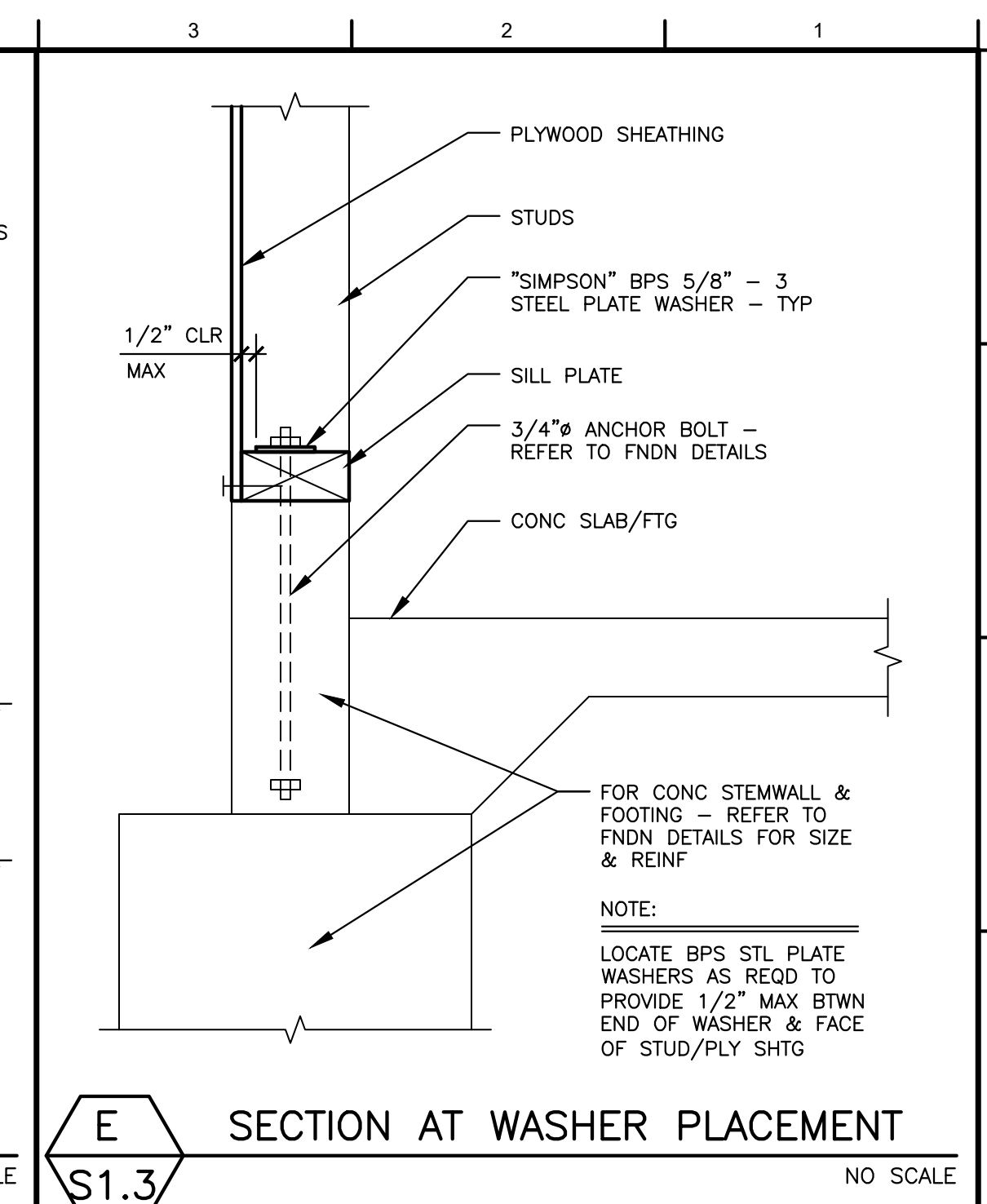
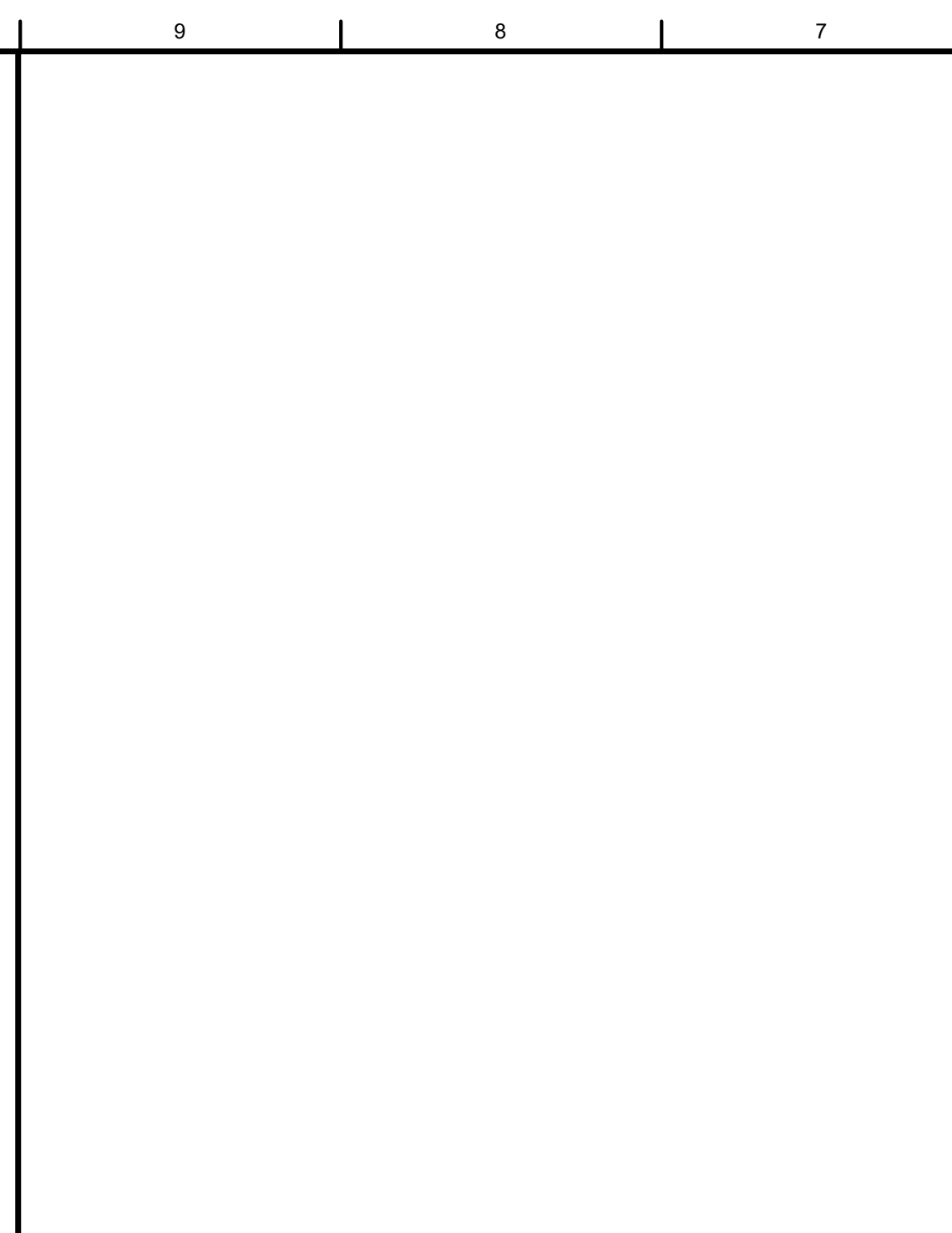
95358 DISE ROAD MODESTO, CALIFORNIA
ELEMENTARY SCHOOL DISTRICT



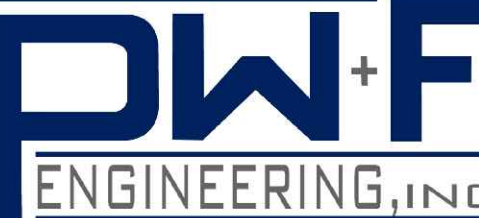
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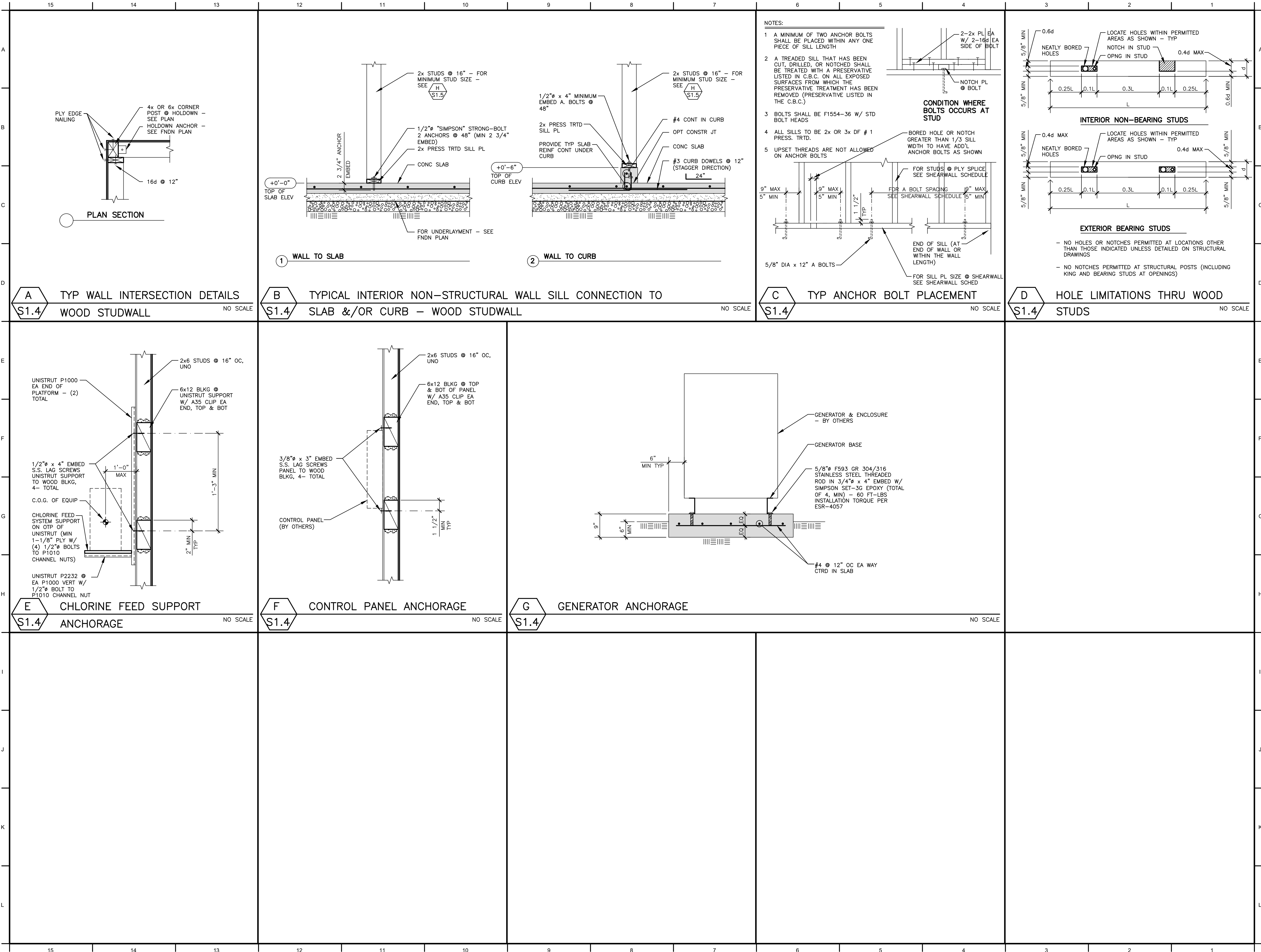
Project Number	THA034-24
Date	02-14-2024
Drawn by	SG
Checked by	NF

S1.2

Plot Date & Time



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 <p>TPH architects</p> <p>TIMOTHY P. HUFF & ASSOCIATES, INC. Timothy P. Huff, AIA Architect 519 McHenry Ave., Modesto, CA 95354 Ph: (209) 571-2232 Fax: (209) 571-1936</p>  <p>Copyright 2023 - Timothy P. Huff & Associates</p>									
 <p>PW+F ENGINEERING, INC.</p> <p>PELTON WYLIE FAHRNEY ENGINEERING, INC. STRUCTURAL ENGINEERS 2813 COFFEE ROAD, SUITE D1 MODESTO, CALIFORNIA 95355 TEL: (209) 575-9619 WWW.PWF-ENG.COM</p>  <p>Consultants</p>									
<p>SHILOH ELEMENTARY WATER TREATMENT SYSTEM</p> <p>6633 PARADISE ROAD MODESTO, CALIFORNIA 95358</p> <p>SHILOH ELEMENTARY SCHOOL DISTRICT</p>	<p>TYPICAL DETAILS - FOUNDATION</p>								
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Project Number</td> <td style="width: 50%;">THA034-24</td> </tr> <tr> <td>Date</td> <td>02-14-2024</td> </tr> <tr> <td>Drawn by</td> <td>SG</td> </tr> <tr> <td>Checked by</td> <td>NF</td> </tr> </table>		Project Number	THA034-24	Date	02-14-2024	Drawn by	SG	Checked by	NF
Project Number	THA034-24								
Date	02-14-2024								
Drawn by	SG								
Checked by	NF								
<h1 style="margin: 0;">S1.3</h1> <p>Plot Date & Time</p>									



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TPH
architects

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Consultants

**SHILOH ELEMENTARY
WATER TREATMENT SYSTEM**

6633 PARADISE ROAD MODESTO, CALIFORNIA 95358
SHILOH ELEMENTARY SCHOOL DISTRICT

TYPICAL DETAILS - FOUNDATION & WALL FRAMING

Project Number: THA034-24
Date: 02-14-2024
Drawn by: SG
Checked by: NF


S1.4

Plot Date & Time

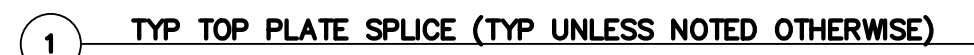
- 1 ALL EDGES OF PLY SHALL BE FASTENED PER SCHEDULE NAILING REQUIREMENT
- 2 REFER TO NOMINAL THICKNESS OF STUDS & BLKG AT PLY SPLICE
- 3 ALL NAILS SHALL BE COMMON WIRE NAILS
- 4 ALL PLYWOOD MUST BE MARKED "APA W/ EXT GLUE"
- 5 PREDRILL HOLES WHERE PLYWOOD TENDS TO SPLIT
- 6 MIN INDIVIDUAL PIECE: 8 SQ FT - LEAST DIMENSION = 1'-4"
- 7 FIELD NAILING: 10d @ 12" - TYP AT ALL INTERMEDIATE BEARINGS

A	PLYWOOD SHEARWALL SCHEDULE
S1.5	WOOD STUDWALL

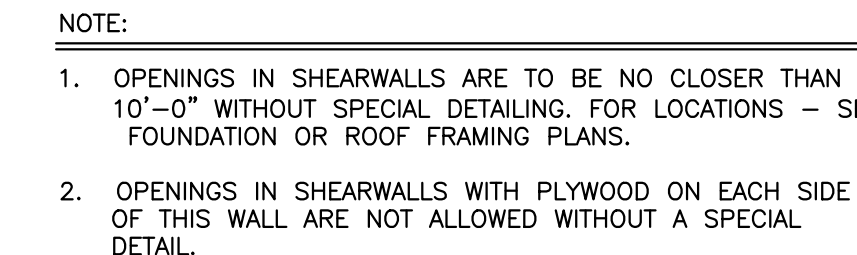
NOTE:
FOR OPNGS IN SHEARWALLS
BTWN STUDS FOR DUCTS,
ETC — REFER TO



FOR LARGER OPNGS, OR
OPNGS CLOSER THAN
10'-0", OR OPNGS IN
WALLS W/ PLY EA SIDE (IF
REQD) REFER TO SPECIFIC
STRUCTURAL DETAILS
REFERENCED ON FRAMING
PLANS



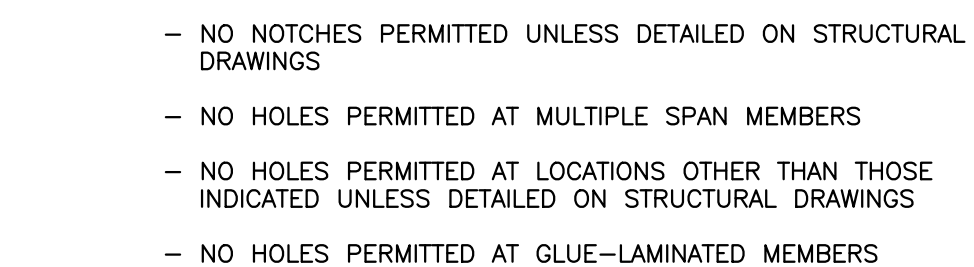
C	TYPICAL TOP PLATE SPLICE	
S1.5	WOOD STUDWALL	NO SCALE



D	TYPICAL OPENING IN SHEARWALL
S1.5	WOOD STUDWALL

1. INSTALL HOLDOWN PER MANUFACTURER'S RECOMMENDATIONS
2. ANCHOR BOLT NUT IS TO BE FINGER TIGHT WITH 1/3 TO 1/2 TURN WITH A WRENCH
3. FOR ADDITIONAL INFORMATION - SEE "SIMPSON" REQUIREMENTS
4. PROVIDE HOLDOWN ANCHOR FROM THREADED ROD AND DOUBLE NUT (WITH MINIMUM ANCHOR DIAMETERS AND MINIMUM EMBEDMENTS SHOWN)
5. HOLDOWN ANCHOR BOLTS ARE IN ADDITION TO AND NOT IN LIEU OF THE SPECIFIED SILL PLATE ANCHOR BOLTS
6. ALL-THREAD ROD HOLDOWN ANCHOR BOLT EMBEDMENT IS THE MINIMUM EMBEDMENT REQUIRED FROM THE TOP OF THE FOOTING TO THE BOTTOM OF THE ANCHOR.

G	TYPICAL HOLDOWN DETAIL
S1.5	WOOD STUDWALL



CEILING JOISTS

J	HOLE LIMITATIONS THRU SAWN	
S1.5	TIMBER	N

1 ALL NAILS SHALL BE COMMON WIRE NAILS
2 ALL PLYWOOD MUST BE MARKED "APA W/ EXT GLUE"
3 PROVIDE EDGE NAILING ALONG ALL STRUT & CHORD LINES
4 PREDRILL HOLES WHERE PLYWOOD TENDS TO SPLIT
5 MIN INDIVIDUAL PIECE: 8 SQ FT - LEAST DIMENSION = 2'-0"

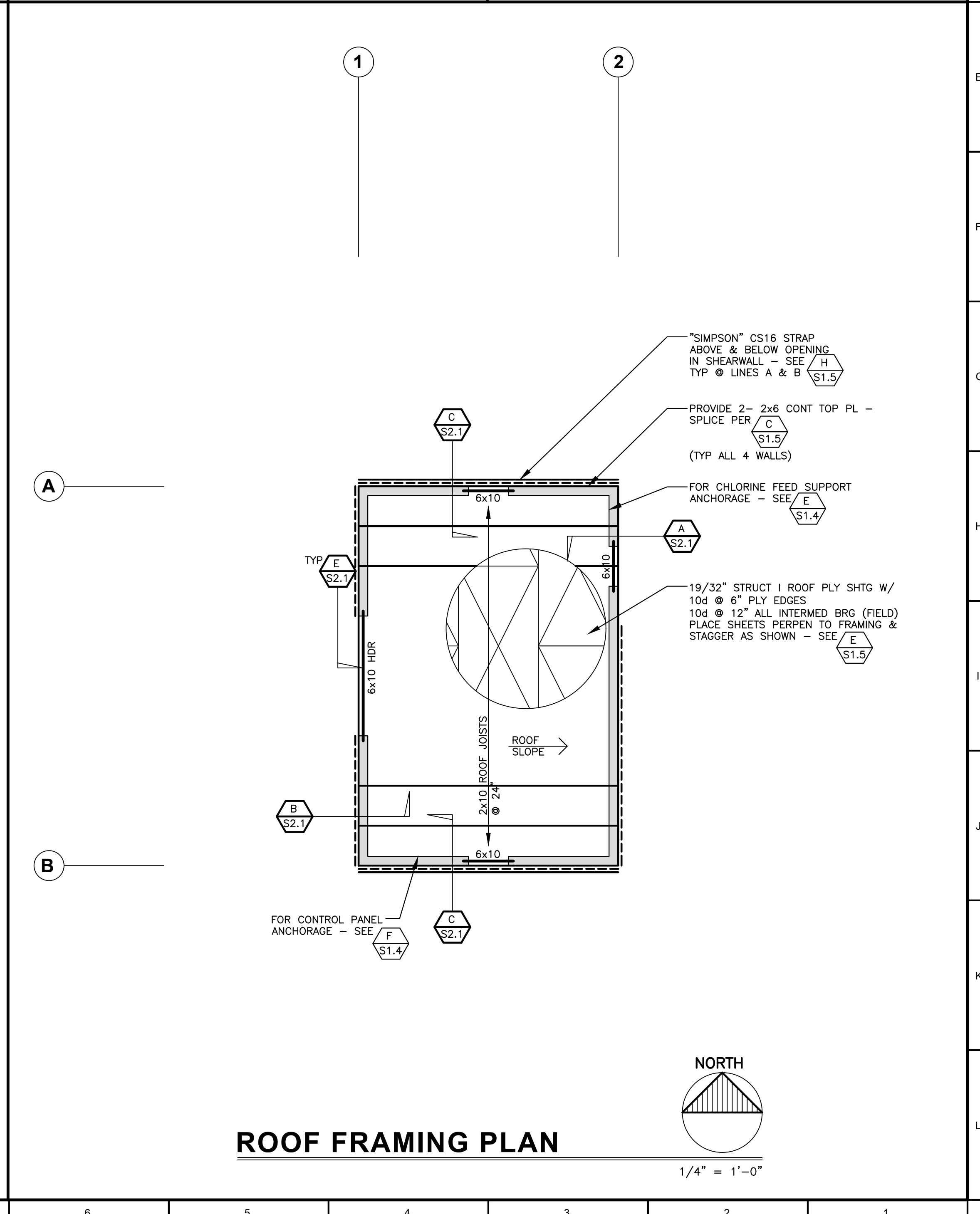
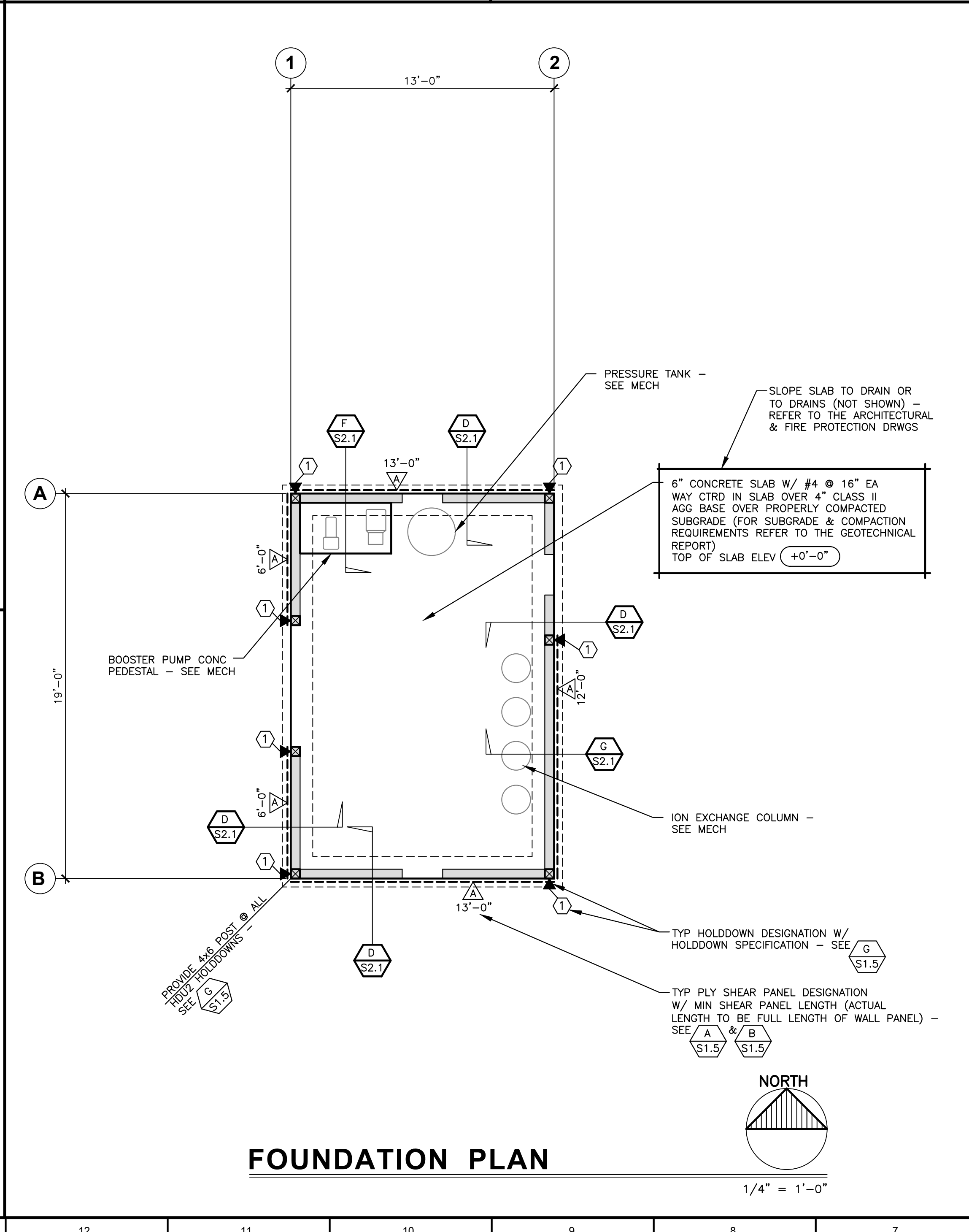
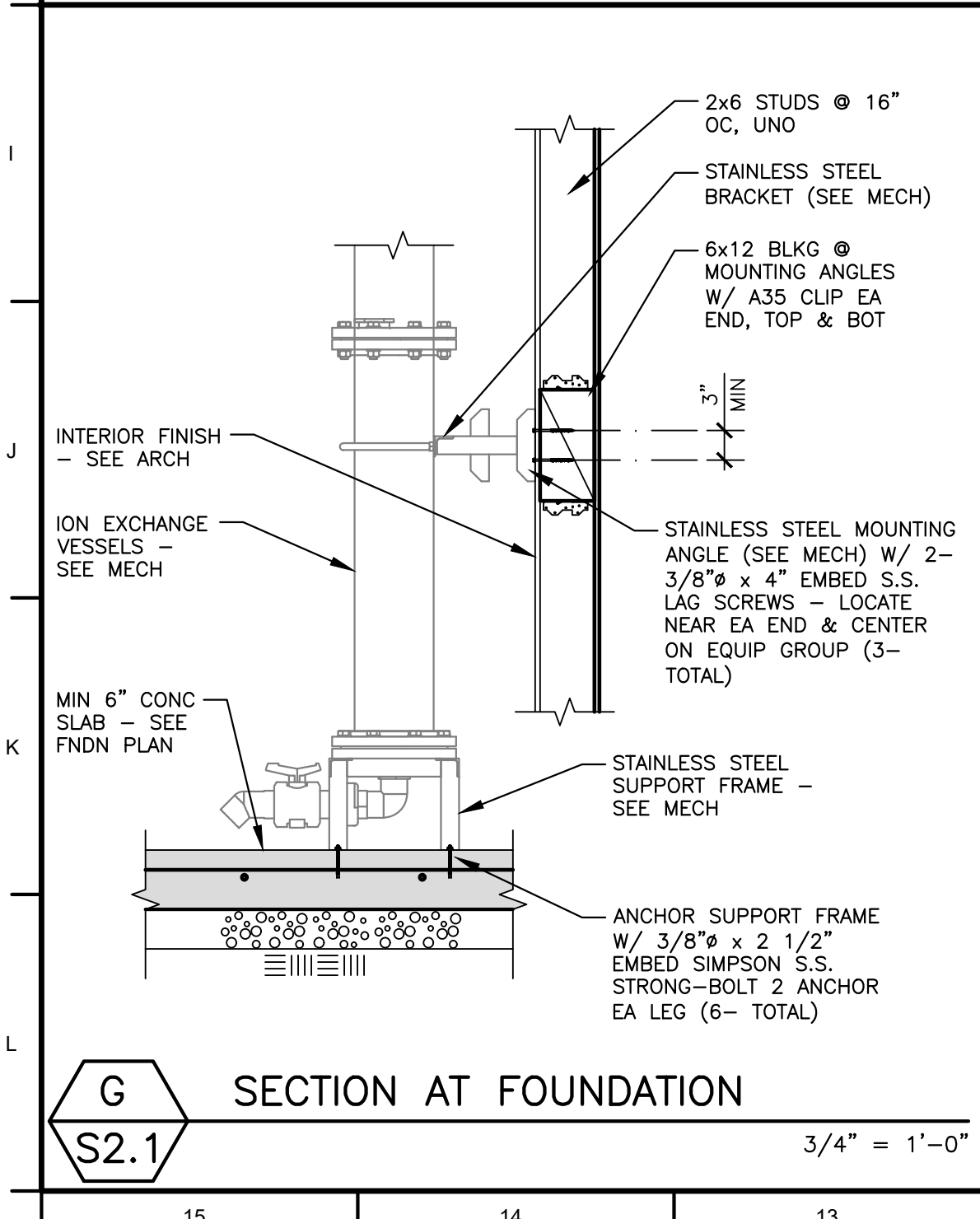
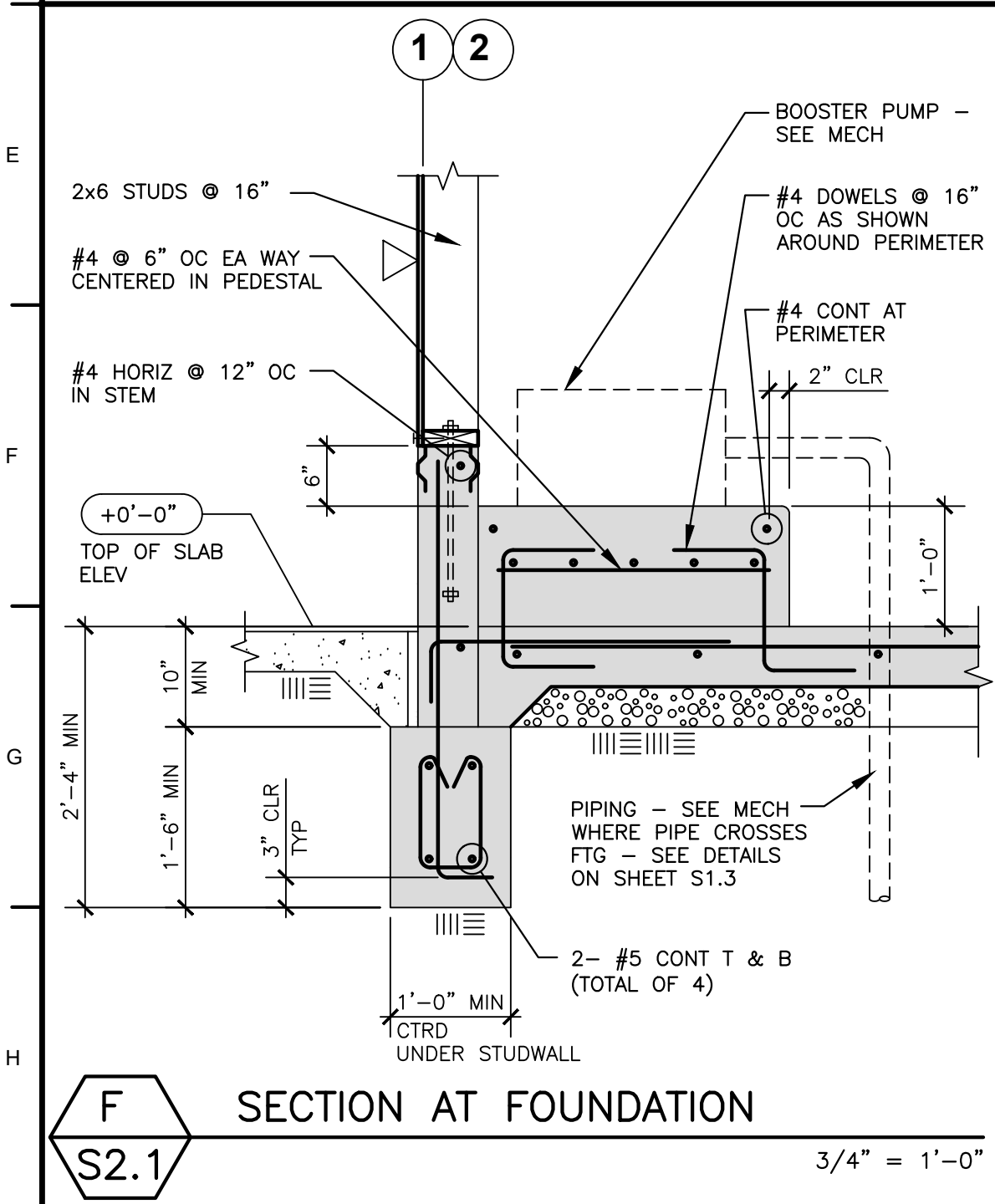
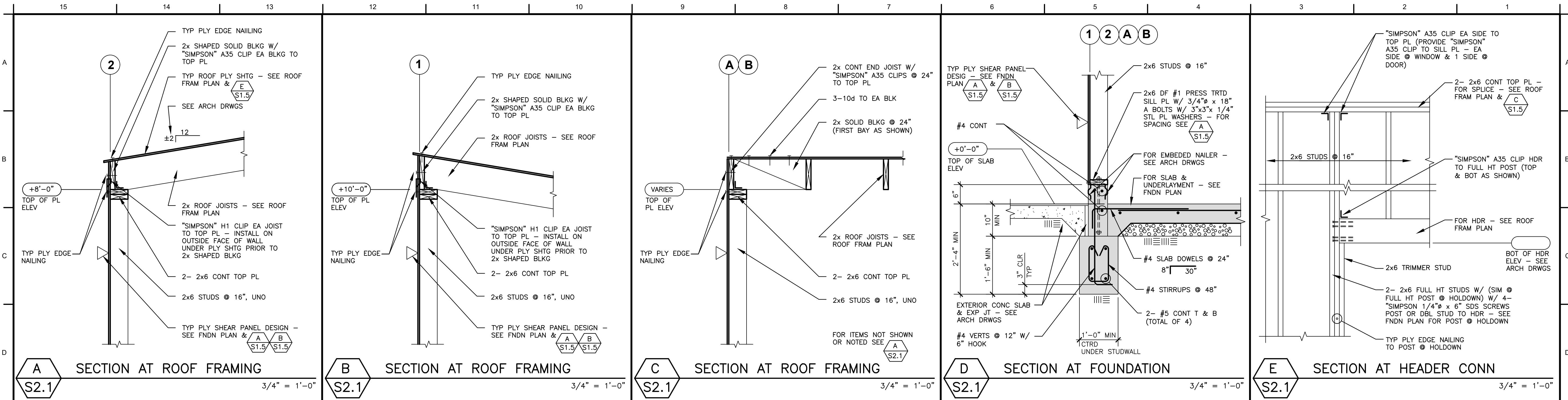
 PLYWOOD ROOF SHEATHING



NOTE:

1. FOR HEADER SIZE - REFER TO THE FRAMING PLAN
2. FOR CLEAR OPENING AT DOORS AND WINDOWS REFER TO THE ARCH DRWS

F	TYPICAL STRUCTURAL WALL FRAMING AT OPENING
S1.5	WOOD STUDWALL



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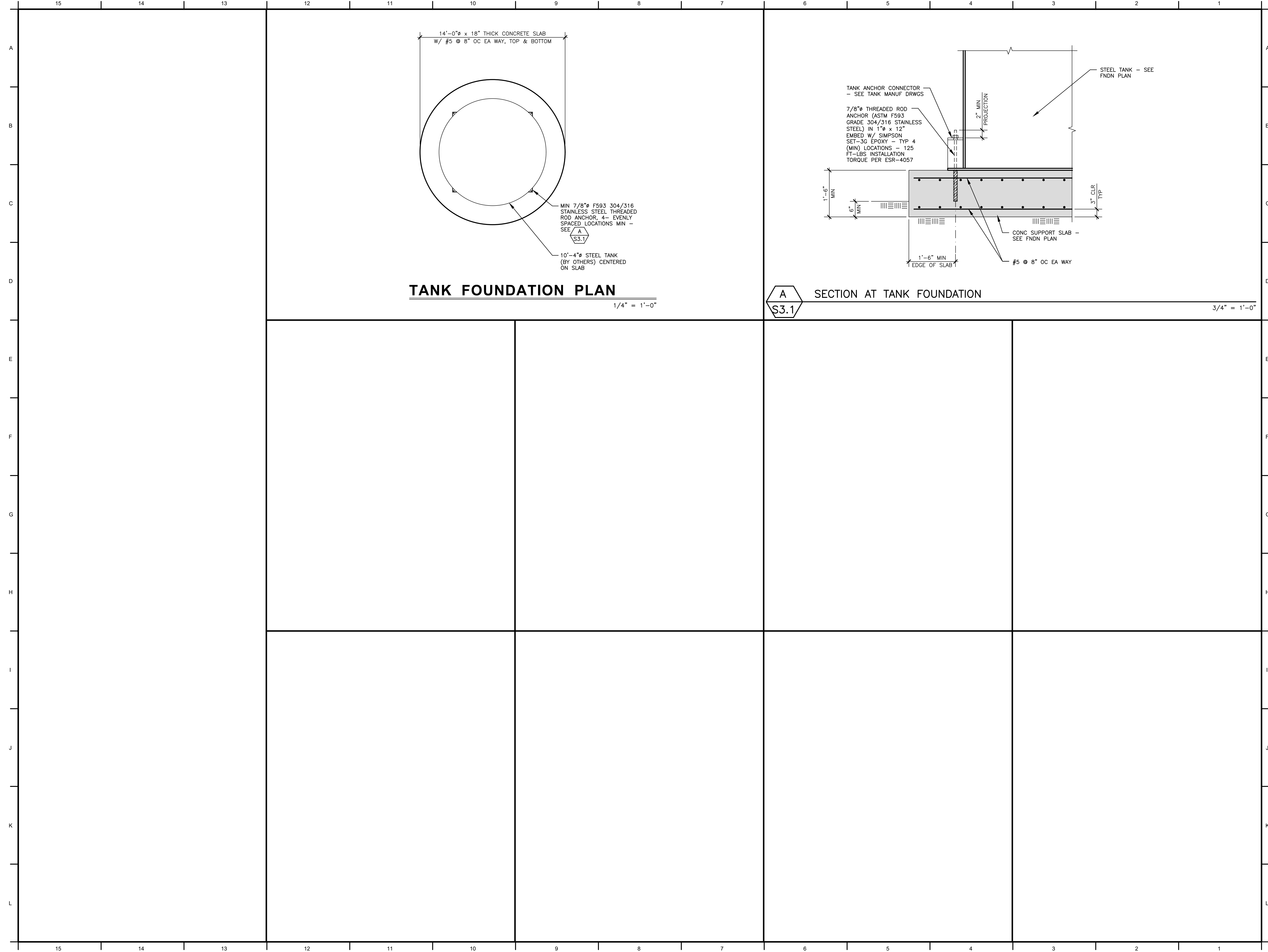
Consultants

**SHILOH ELEMENTARY
WATER TREATMENT SYSTEM**

6633 PARADISE ROAD MODESTO, CALIFORNIA 95358
SHILOH ELEMENTARY SCHOOL DISTRICT

**FOUNDATION PLAN
ROOF FRAMING PLAN
STRUCTURAL DETAILS**

Project Number	THA034-24
Date	02-14-2024
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S2.1	
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SHILOH ELEMENTARY WATER TREATMENT SYSTEM

6633 PARADISE ROAD MODESTO, CALIFORNIA 95358
SHILOH ELEMENTARY SCHOOL DISTRICT
TANK FOUNDATION PLAN & DETAILS

Project Number	THA034-24
Date	02-14-2024
Drawn by	SG
Checked by	NF

S3.1

Plot Date & Time

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A	<div>PLUMBING EQUIPMENT SCHEDULE</div> <table><tr><th>MARK</th><th>DESCRIPTION</th></tr><tr><td>P-1</td><td>BASIS OF DESIGN - THE FOLLOWING SPECIFICATION IS FOR BASIS OF DESIGN, THE CONTRACTOR SHALL SELECT A WELL PUMP BASED ON WATER LEVEL TO PROVIDE 200 GPM @ 80 PSIG MINIMUM AT THE WELL HEAD. SUBMERSIBLE PUMP: 200 GPM AT 240 FEET TOTAL DYNAMIC HEAD, 25 HP, 460V, 3Ø, 88.0 A, 1.15 SF. STAINLESS STEEL MOTOR SHAFT AND COUPLING, STAINLESS STEEL IMPELLER, MOTOR CAPABLE OF RUNNING CONTINUOUSLY UNDER WATER, 4" DROP PIPE, SUBMERSIBLE CABLE CONNECTIONS. GRUNDFOS #230S250-7. MOTOR CONTROLLER: VARIABLE FREQUENCY DRIVE MOTOR CONTROLLER SHALL BE SELECTED TO MATCH PUMP MOTOR. CONTROLLER SHALL HAVE ALPHA-NUMERIC INPUT & DISPLAY. CONTROLLER SHALL CHANGE DRIVE SPEED TO MAINTAIN A CONSTANT DISCHARGE PRESSURE, DISPLAY STATUS OF MOTOR AND STORE LAST 8 ALARM FAULTS. CONTROLLER SHALL BE ENCLOSED IN AN UL TYPE 1 ENCLOSURE (NEMA 3). THE ENCLOSURE SHALL BE LOCATED ON EXTERIOR WALL OF FIRE PUMP HOUSE. MITSUBISHI ELECTRIC AUTOMATION, INC. FR-F700 OR APPROVED EQUAL.</td></tr><tr><td>ET-1</td><td>EXPANSION TANK: 264 GALLON, 0.65 ACCEPTANCE FACTOR, VERTICAL, 82.25" TALL x 36" DIAMETER. 3" SYSTEM CONNECTION, MAX OPERATING WEIGHT 3010 LBS. AMTROL WELL-X-TROL WX-453C.</td></tr></table> <div>NFPA 22 4.2.1.4 CALCULATION</div> <div>200 GALLONS / MIN = 12000 GALLONS / HOUR 8 HOUR * 1200 GALLONS / HOUR = 96,000 GALLONS PER 8 HOURS (E) FIRE TANK CAPACITY: 67,362 GALLONS 67,362 > 96,000 : 200 GPM PUMP ACCEPTABLE</div>													MARK	DESCRIPTION	P-1	BASIS OF DESIGN - THE FOLLOWING SPECIFICATION IS FOR BASIS OF DESIGN, THE CONTRACTOR SHALL SELECT A WELL PUMP BASED ON WATER LEVEL TO PROVIDE 200 GPM @ 80 PSIG MINIMUM AT THE WELL HEAD. SUBMERSIBLE PUMP: 200 GPM AT 240 FEET TOTAL DYNAMIC HEAD, 25 HP, 460V, 3Ø, 88.0 A, 1.15 SF. STAINLESS STEEL MOTOR SHAFT AND COUPLING, STAINLESS STEEL IMPELLER, MOTOR CAPABLE OF RUNNING CONTINUOUSLY UNDER WATER, 4" DROP PIPE, SUBMERSIBLE CABLE CONNECTIONS. GRUNDFOS #230S250-7. MOTOR CONTROLLER: VARIABLE FREQUENCY DRIVE MOTOR CONTROLLER SHALL BE SELECTED TO MATCH PUMP MOTOR. CONTROLLER SHALL HAVE ALPHA-NUMERIC INPUT & DISPLAY. CONTROLLER SHALL CHANGE DRIVE SPEED TO MAINTAIN A CONSTANT DISCHARGE PRESSURE, DISPLAY STATUS OF MOTOR AND STORE LAST 8 ALARM FAULTS. CONTROLLER SHALL BE ENCLOSED IN AN UL TYPE 1 ENCLOSURE (NEMA 3). THE ENCLOSURE SHALL BE LOCATED ON EXTERIOR WALL OF FIRE PUMP HOUSE. MITSUBISHI ELECTRIC AUTOMATION, INC. FR-F700 OR APPROVED EQUAL.	ET-1	EXPANSION TANK: 264 GALLON, 0.65 ACCEPTANCE FACTOR, VERTICAL, 82.25" TALL x 36" DIAMETER. 3" SYSTEM CONNECTION, MAX OPERATING WEIGHT 3010 LBS. AMTROL WELL-X-TROL WX-453C.	A
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PLUMBING GENERAL NOTES

1. SCOPE:
A COMPLETE DOMESTIC PLUMBING SYSTEM AS GENERALLY DELINEATED ON THE PLUMBING DRAWINGS, INCLUDING SERVICE PIPING AND FINAL CONNECTIONS TO EQUIPMENT FURNISHED AND INSTALLED BY OTHER TRADES AS MAY BE SHOWN ON THE ARCHITECTURAL, ELECTRICAL OR OTHER DRAWINGS OF THE CONTRACT DOCUMENTS.
2. CALIFORNIA CODE OF REGULATIONS:
ALL HOT WATER DISTRIBUTION AND CIRCULATION LINES SHALL BE INSULATED IN ACCORDANCE WITH SECTION 120.3 OF THE CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 6, SUBCHAPTER 3.
3. ALL PLUMBING FIXTURES & EQUIPMENT USED (E.G. SHOWERHEADS, LAVATORY FAUCETS, SINK FAUCET AND WATER HEATERS) SHALL HAVE BEEN CERTIFIED TO THE CALIFORNIA ENERGY COMMISSION BY ITS MANUFACTURER TO COMPLY WITH THE EFFICIENCY STANDARDS FOR SUCH APPLIANCES.
4. CODES:
ALL WORK, MATERIAL, AND EQUIPMENT SHALL BE FURNISHED AND INSTALLED IN COMPLIANCE WITH THE FOLLOWING CODES AS ADOPTED AND AMENDED BY THE INSPECTING AUTHORITY HAVING JURISDICTION. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT THE INSTALLATION OF WORK, MATERIAL OR EQUIPMENT NOT CONFORMING TO THESE OR OTHER CODES APPLICABLE TO THIS PROJECT.

A. 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC) PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
B. 2022 CALIFORNIA BUILDING CODE (CBC) PART 2, TITLE 24, CCR BASED ON THE 2021 INTERNATIONAL BUILDING CODE (IBC)
C. 2022 CALIFORNIA ELECTRICAL CODE (CEC) PART 3, TITLE 24, CCR BASED ON THE 2020 NATIONAL ELECTRICAL CODE (NEC)
D. 2022 CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24, CCR BASED ON THE 2021 UNIFORM MECHANICAL CODE (UMC)
E. 2022 CALIFORNIA PLUMBING CODE (CPC) PART 5, TITLE 24, CCR BASED ON THE 2021 UNIFORM PLUMBING CODE (UPC)
F. 2022 CALIFORNIA ENERGY CODE (CEC) PART 6, TITLE 24 CCR
G. 2022 CALIFORNIA FIRE CODE (CFC) PART 9, TITLE 24, CCR BASED ON THE 2021 INTERNATIONAL FIRE CODE (IFC)
H. 2022 CALIFORNIA GREEN BUILDING STANDARDS (CGBSC) PART 11, TITLE 24, CCR
5. WORKMANSHIP:
ALL WORK SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER ACCORDING TO THE BEST TRADE PRACTICE BY THOSE SKILLED IN THE PARTICULAR TRADE. EQUIPMENT, FIXTURES, PIPING, ETC., SHALL BE PLUMB, LEVEL, SQUARE AND/OR CENTERED, ETC. EQUIPMENT TO BE INSTALLED IN STRICT COMPLIANCE WITH MANUFACTURER'S RECOMMENDATIONS.
6. EXISTING INFORMATION:
LOCATION, SIZE, ELEVATION, MATERIAL, ETC., OF EXISTING UTILITIES IS PROVIDED FROM SOURCES DEEMED RELIABLE BUT IS NOT GUARANTEED. THE CONTRACTOR SHALL FIELD VERIFY ALL DATA BEFORE PROCEEDING WITH ANY WORK. NO EXTRA COST WILL BE ALLOWED FOR SERVICES NOT AS SHOWN.
7. PERMITS AND UTILITY SERVICE FEES:
THE PLUMBING CONTRACTOR SHALL ARRANGE AND PAY FOR ALL PERMITS, INSPECTIONS, AND SERVICE CHARGES REQUIRED FOR THE INSTALLATION OF THE WORK.
8. ACCURACY:
PLANS ARE DIAGRAMMATIC. THE CONTRACTOR SHALL CONFIRM ALL DIMENSIONS AND LOCATION OF WALLS, PARTITIONS, FIXTURES, ETC., AGAINST DESIGN PLANS FOR CONSISTENCY AND ACCURACY PRIOR TO COMMENCING WORK.
9. PROVIDE AND INSTALL CONDENSATE DRAIN WITH TRAP AT EACH A/C UNIT PER THE UPC, AT LOCATIONS SHOWN ON DRAWINGS. COORDINATE WITH MECHANICAL CONTRACTOR.
10. PROVIDE AND INSTALL ACCESS PANELS FOR ALL SHUT-OFF, ISOLATION, OR BRANCH VALVES NOT READILY ACCESSIBLE. ACCESS PANELS SHALL BE PROVIDED AND INSTALLED AT ALL TRAP PRIMER VALVES AND WATER HAMMER ARRESTORS.
11. ALL PIPING PASSING THROUGH CONCRETE FLOORS SHALL BE SLEEVED TO PROTECT PIPING AGAINST BREAKAGE.
12. HORIZONTAL DRAINAGE PIPING LESS THAN 4" IN DIAMETER SHALL BE SLOPED AT A MINIMUM OF 1/4" PER FOOT (2%) DRAINAGE PIPING 4" AND LARGER SHALL BE SLOPED AT A MINIMUM OF 1/4" PER FOOT (2%) UNLESS OTHERWISE APPROVED BY THE A/E.
13. ALL PLUMBING FIXTURES AND PIPING SHALL BE LISTED BY AN APPROVED LISTING AND TESTING AGENCY AND PROPERLY LABELED.
14. ALL PIPES SHALL BE LABELED WITH CLASSIFICATION, COLOR SCHEME, AND SIZING PER ANSI STANDARD A13.1.

PLUMBING MATERIAL SPECIFICATIONS

- A. DOMESTIC WATER - SITE: (SCW) ABOVE GRADE
PIPE: SCH 40 GALVANIZED STEEL PER ASTM A-53
FITTINGS: SCREWED MALLEABLE IRON PER ASME B-16.3
OR FLANGED FITTINGS PER ASME B-16.5
- B. DOMESTIC WATER - SITE: (SCW) BELOW GRADE
PIPE: POLY VINYL CHLORIDE (PVC) SCH 40 PER ASTM D-1785
FITTINGS: POLY VINYL CHLORIDE (PVC) PER ASTM D-2467
(PROVIDE THRUST BLOCKS AS REQUIRED)

MEP COMPONENT ANCHORAGE

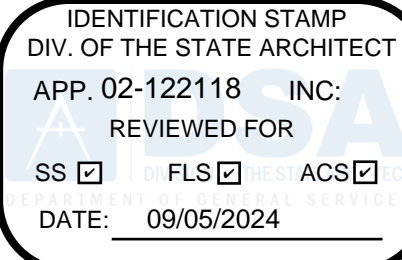
SEE E.0 FOR ANCHORAGE NOTES

PLUMBING LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	SS	SOIL, WASTE OR SANITARY SEWER BELOW FLOOR
	SS	SOIL, WASTE OR SANITARY SEWER OVERHEAD
	V	VENT PIPING
	CW	COLD WATER
	HW (110°, 140°)	HOT WATER SUPPLY
	HWR	HOT WATER RETURN
	G	NATURAL GAS - LOW PRESSURE
		EXISTING TO BE REMOVED
	D OR IW	DRAIN OR INDIRECT WASTE
	CD	CONDENSATE DRAIN
	OCD	OVERFLOW CONDENSATE DRAIN
	SD, RWL	STORM DRAIN, RAINWATER LEADER
	OFL	RAINWATER OVERFLOW LEADER (STORM)
	AD, AP	ACCESS DOOR, ACCESS PANEL
	AC	AIR CHAMBER
	ANV	ANGLE VALVE
	AQ	AQUASTAT
	AD	AREA DRAIN
	AAV	AUTOMATIC AIR VENT
	BV	BALL VALVE
		BRANCH - TOP CONNECTION
		BRANCH - BOTTOM CONNECTION
		BRANCH - SIDE CONNECTION
		BUTTERFLY VALVE
	BFV	CAP ON END OF PIPE
	CBV	CALIBRATED BALANCE VALVE
	CB, RD	CATCH BASIN, ROOF DRAIN
	CKV	CHECK VALVE
	CP	CIRCULATING PUMP
	CO	CLEANOUT PLUG
	CR	CONCENTRIC REDUCER
	DIA	DIAMETER
	ER	ECCENTRIC REDUCER
	FC	FLEXIBLE CONNECTOR
	FCO	FLOOR CLEANOUT
	FD	FLOOR DRAIN
	FS	FLOW SWITCH
	GCK	GAGE COCK
	SOV	SHUT OFF VALVE
	GSCK, PC	GAS COCK, PLUG COCK
	GPR	GAS PRESSURE REGULATOR
	GL. V.	GLOBE VALVE
	GCO	GRADE CLEANOUT
	HB	HOSE BIBB
	AN	PIPE ANCHOR
	PG	PIPE GUIDE
	POC	POINT OF CONNECTION
	PRV	PRESSURE REDUCING VALVE
	PG	PRESSURE GAUGE
	RV or T&P	RELIEF VALVE OR TEMPERATURE & PRESSURE RELIEF VALVE
	SV	SOLENOID VALVE
	STR	STRAINER
	TDL	TOTAL DEVELOPED LENGTH
	TH	THERMOMETER
	TP	TRAP PRIMER
	UN	UNION OR FLANGE
	WCO	WALL CLEANOUT

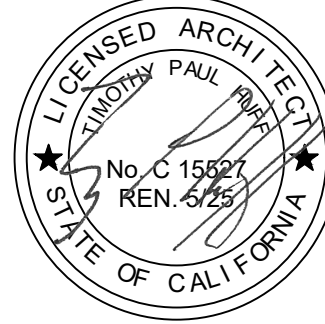
SHEET INDEX

SHEET NO.	DESCRIPTION
P0.0	PLUMBING - LEGEND, NOTES & SCHEDULES
P1.0	PLUMBING - FLOOR PLAN & DETAILS

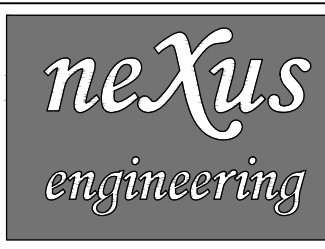


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SHILOH ELEMENTARY
WATER TREATMENT SYSTEM

6633 PARADISE ROAD MODESTO, CALIFORNIA 95358

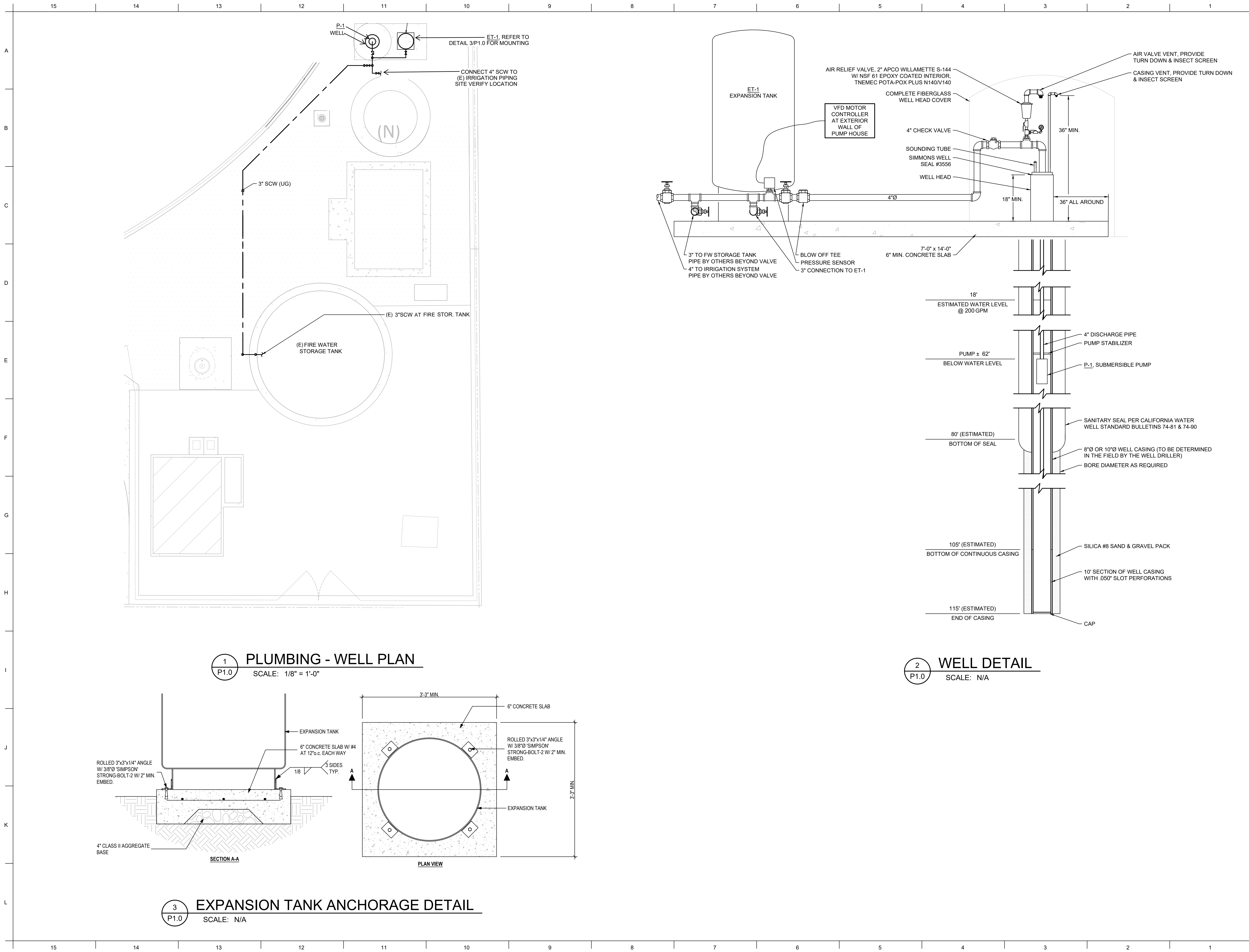
SHILOH ELEMENTARY SCHOOL DISTRICT

PLUMBING - LEGEND, NOTES & SCHEDULES

Project Number	2324
Date	AUG 2024
Drawn by	DW
Checked by	AL

P0.0

Plot Date & Time



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DIV. OF THE STATE ARCHITECT
APP. 02-122118 INC:
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architects

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SHILOH ELEMENTARY
WATER TREATMENT SYSTEM

6633 PARADISE ROAD MODESTO, CALIFORNIA 95358
SHILOH ELEMENTARY SCHOOL DISTRICT
PLUMBING - FLOOR PLAN & DETAILS

Project Number	2324
Date	AUG 2024
Drawn by	DW
Checked by	AL
P1.0	
Plot Date & Time	

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ELECTRICAL SPECIFICATIONS

GENERAL NOTES:

- ELECTRICAL INSTALLATION SHALL COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, INCLUDING THE FOLLOWING:
TITLE 24, CCR, PART 2, 2022 CBC
TITLE 24, CCR, PART 3, 2022 CEC
TITLE 24, CCR, PART 4, 2022 CMC
TITLE 24, CCR, PART 9, 2022 CFC
ALL APPLICABLE LOCAL CODES.
- ELECTRICAL CONTRACTOR SHALL PROCURE AND PAY FOR ALL LICENSES, ETC. REQUIRED TO CARRY ON AND COMPLETE THE WORK. PERMIT BY OWNER.
- PROVIDE ALL LABOR, MATERIALS, TOOLS, PLANT EQUIPMENT, TRANSPORTATION AND PERFORM ALL OPERATIONS NECESSARY FOR ANY REASONABLE INCIDENTAL TO PROPER EXECUTION AND COMPLETION OF ALL "ELECTRICAL WORK" WHETHER SPECIFICALLY MENTIONED OR NOT; ALL AS INDICATED, SPECIFIED HEREIN, AND/OR IMPLIED THEREBY TO CARRY OUT THE APPARENT INTENT THEREOF.
- ALL ELECTRICAL MATERIALS SHALL BE NEW AND LISTED WITH THE UNDERWRITERS' LABORATORIES, INC., SHALL MEET THEIR REQUIREMENTS AND SHALL BEAR THEIR LABEL WHEREVER STANDARDS HAVE BEEN ESTABLISHED AND LABEL SERVICE IS REGULARLY FURNISHED BY THAT AGENCY.
- ELECTRICAL DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ALTHOUGH THE SIZE AND LOCATIONS OF EQUIPMENT ARE SHOWN TO SCALE WHEREVER POSSIBLE, CONTRACTOR SHALL MAKE USE OF ALL DATA IN ALL CONTRACT DOCUMENTS AND VERIFY THIS INFORMATION AT THE SITE. CONTRACTOR SHALL BE RESPONSIBLE FOR LAYING OUT AND INSTALLING HIS WORK TO AVOID INTERFERENCE WITH OTHER TRADES.
- CONDUCTORS SHALL BE COPPER CONDUCTORS TYPE THWN UNLESS OTHERWISE NOTED OR REQUIRED BY CODE.
- ALL LUMINAIRES AND BALLASTS SHALL BE CERTIFIED BY THE MANUFACTURER TO THE CALIFORNIA ENERGY COMMISSION.
- THE OWNER RESERVES THE RIGHT TO RELOCATE ALL LIGHTING, OUTLETS AND SWITCHES BEFORE THEY ARE ROUGHED IN AT NO EXTRA COST.
- ALL EXIT SIGNS TO BE UNSWITCHED.

NAMEPLATES & IDENTIFICATION:

INSTALL ENGRAVED NAMEPLATES FOR EACH PANELBOARD, CABINET, DISCONNECT, ETC. NAMEPLATES SHALL BE SECURELY FASTENED TO THE EQUIPMENT WITH #4 PHILLIPS ROUND HEAD CADMIUM PLATED SELF-TAPPING SCREWS, BRASS BOLT, OR WITH A PLASTIC RESIN ADHESIVE GLUE, GOODYEAR "PLIEBOND" OR EQUAL.

WIRING METHODS:

- ALL WIRING SHALL BE INSTALLED IN STEEL CONDUITS, CONCEALED IN WALL AND CEILING U.O.N.
- MINIMUM CONDUIT SIZE SHALL BE 1/2". MINIMUM ACCEPTABLE CONDUITS ARE
 - GALVANIZED RIGID STEEL.
 - GALVANIZED STEEL EMT.
 - LIQUID TIGHT STEEL FLEX - FOR FINAL CONNECTION TO OUTDOOR EQUIPMENT.
 - FLEXIBLE STEEL CONDUIT - FOR INDOOR FINAL CONNECTIONS TO MECHANICAL EQUIPMENT (NOT TO EXCEED 36").
 - PVC CONDUIT SCHEDULE 40, UNDERGROUND.
- NMC CABLING SYSTEMS ARE NOT ALLOWED IN THIS BUILDING.
- MC CABLING SYSTEMS ARE NOT ALLOWED IN THIS BUILDING.

WIRING DEVICES:

UNITS SHALL BE EQUAL TO THE DEVICES SET FORTH HEREIN, IN STANDARD COLORS (BROWN, WHITE, GREY, BEIGE OR IVORY) AS SELECTED BY THE ARCHITECT:

A. WIRING DEVICES	LEVITON #	HUBBELL #	P & S #
SINGLE POLE SWITCH	1221	1221	20AC1
THREE WAY SWITCH	1223	1223	20AC3
DUPLEX CONV. OUT. 15A	5262	5262	
DUPLEX GFI CONV. OUT.		GF5262	

DEVICE PLATES:

- ALL DEVICE PLATES FOR INDOOR USE SHALL BE SMOOTH NYLON OR APPROVED EQUAL UNLESS OTHERWISE NOTED. ALL DEVICE PLATES FOR OUTDOOR USE SHALL BE RAISED METAL.
- DEVICE COVERS FOR SURFACE MOUNTED BOXES SHALL BE 1/2" RAISED STEEL PLATES. WEATHERPROOF COVERS TO BE SNAP TYPE COVERS.
- DEVICE PLATES FOR TELEPHONE AND COMPUTER OUTLETS TO BE PROVIDED BY OWNER'S VENDOR. ALL TELEPHONE AND COMPUTER SYSTEM WIRING BY OWNER'S VENDOR.

SUPPORTS:

- FURNISH ALL NECESSARY FOUNDATIONS, SUPPORTS, BACKING, ETC., FOR ALL ELECTRICAL ENCLOSURES, CONDUITS AND EQUIPMENT.
- ATTACH ALL BOXES, CABINETS, ETC. TO WOOD WITH WOOD OR LAG SCREWS, TO METAL WITH MACHINE SCREWS OR BOLTS AND TO CONCRETE WITH EXPANSION ANCHORS AND MACHINE SCREWS OR BOLTS.

GROUNDING:

- GROUND AND BOND ALL EQUIPMENT AS REQUIRED BY GOVERNING CODES AND SPECIFICALLY INCLUDING SWITCHBOARD, PANELBOARDS, MOTOR CASES, ETC.


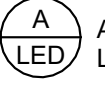
































PANELBOARDS:

UNITS SHALL BE FLUSH OR SURFACE MOUNTED AS INDICATED ON THE PANEL SCHEDULE. WITH THE NUMBER AND SIZE OF BREAKERS INDICATED ON THE PANEL SCHEDULE. SINGLE POLE, TWO POLE AND THREE POLE BREAKERS SHALL BE BOLT-ON TYPE. THE PANEL DOORS SHALL HAVE FLUSH TYPE LOCKS, ALL LOCKS SHALL BE KEYED ALIKE AND HAVE TYPEWRITTEN DIRECTORIES INDICATING FIXTURES, EQUIPMENT, OR OUTLETS SERVICED BY EACH BREAKER. ALL BUSSING SHALL BE COPPER..































TESTING:

- THE ENTIRE ELECTRICAL INSTALLATION SHALL BE FREE FROM SHORT CIRCUITS AND IMPROPER GROUNDS. TEST ALL WIRING AND CONNECTIONS FOR CONTINUITY AND GROUNDS BEFORE ANY FIXTURES OR EQUIPMENT ARE CONNECTED AND WHETHER SUCH TESTS INDICATE FAULTY INSULATION OR OTHER DEFECTS, THEY SHALL BE LOCATED, REPAIRED AND RETESTED AT THE CONTRACTOR'S EXPENSE.
- DEMONSTRATE TO THE OWNER AND THE ARCHITECT, THAT THE ENTIRE INSTALLATION IS COMPLETE, IN PROPER OPERATING CONDITION AND THAT THE CONTRACT HAS BEEN PROPERLY AND FULLY EXECUTED. PROVIDE ALL INSTRUMENTS TO MAKE SUCH TESTS.

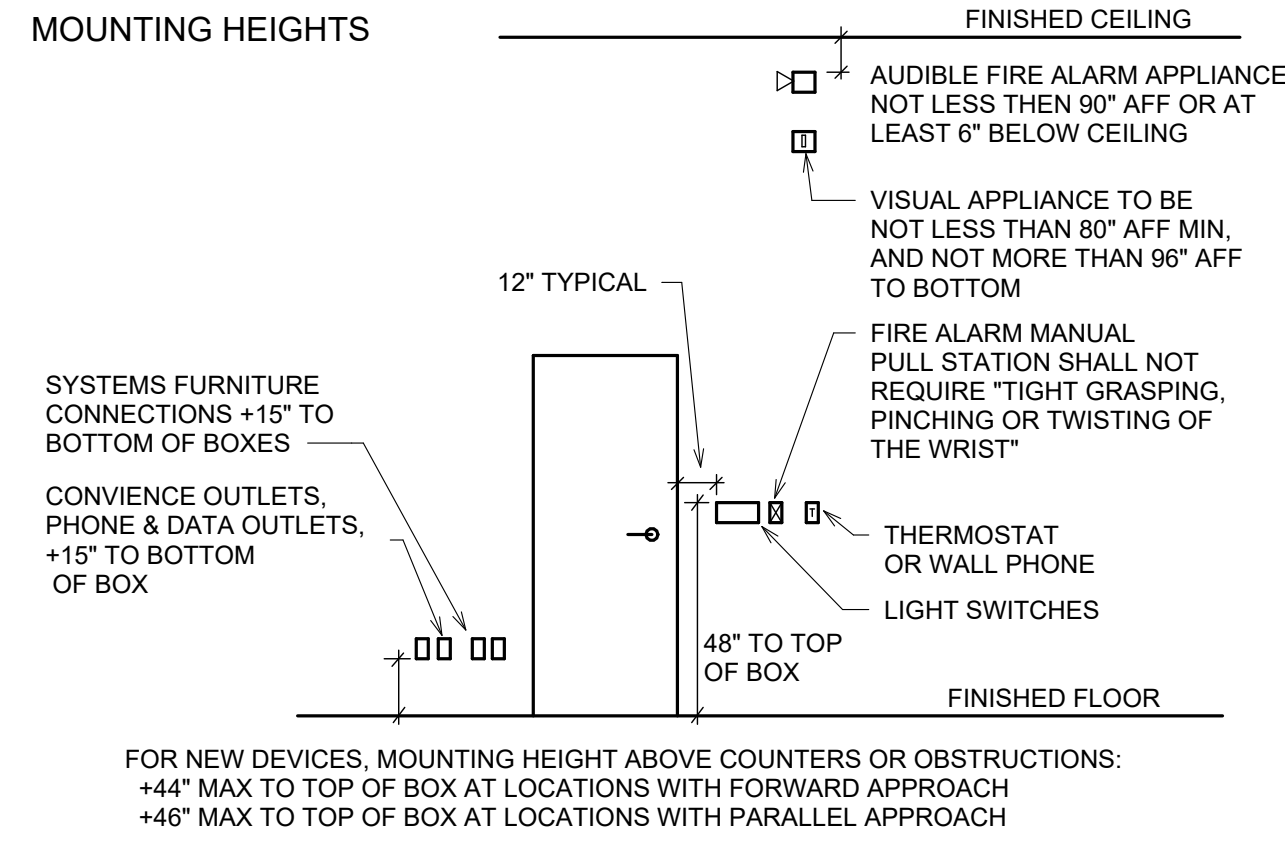
ELECTRICAL LEGEND

	LIGHTING FIXTURES LINEAR FIXTURE • SQUARE = RECESSED • CIRCLE = SURFACE	FIXTURE NOTATIONS: A,(b),C-12 FIXTURE TYPE "A", SWITCH "b", CIRCUIT C-12  ALTERNATE DESIGNATION FOR SITE LIGHTING FIXTURES
	TASK LIGHT OR STRIP LIGHT	
	DOWNLIGHT, SQUARE = RECESSED	
	WALL MOUNT	
	CEILING EXHAUST FAN	
	POLE MOUNT AREA LIGHT	
	EMERGENCY LIGHTING EXIT SIGN WITH 90 MIN BATTERY BACKUP	
	WALL MOUNT EMERGENCY LIGHT WITH 90 MIN BATTERY BACK	
	EXTERIOR LANDING EMERGENCY LIGHT. CONNECT TO INTERIOR EXIT SIGN FOR POWER.	
	FIXTURES WITH INTEGRAL EMERGENCY BALLAST	
	BASIC LIGHTING CONTROLS LIGHT SWITCH - 48" TO TOP OF BOX • D = DIMMER • 3 = SWAY • P = PILOT SWITCH • os = LINE VOLTAGE OCCUPANCY SENSOR • T = TIMMER • VS = VACANCY SENSOR	
	WALL MOUNT OCCUPANCY SENSOR (LINE VOLTAGE)	
	TITLE 24 LIGHTING CONTROLS LIGHT SWITCH COMPONENTS OF DIMMING ROOM CONTROLLER • US = LOW VOLTAGE OCCUPANCY SENSOR (CAT 5 OR AS REQUIRED) • DRC = DIMMING ROOM CONTROLLER • PE = LOW VOLTAGE DIMMING PHOTOCCELL (CAT 5 OR AS REQUIRED) • D = LOW VOLTAGE DIMMER (CAT 5 OR AS REQUIRED) • R = PLUG LOAD CONTROLLER • ADR = AUTOMATIC DEMAND RESPOSNE (FOR BUILDINGS OVER 10,000 SF)	
	NOTES: 1. FOR SUBMITTAL INCLUDE FACTORY CONTROL DRAWINGS. 2. CONDUCT A CONTROLS PRE-CONSTRUCTION MEETING WITH CONTROLS STARTUP TEAM. PROVIDE AGENDA AND ATTENDEES AS A SUBMITTAL. INCLUDE DEVICE I.D. TAGS, PROGRAMMING, CABLE ROUTING, PROGRAM AND TIME SCHEDULES AND DATE OF PROGRAMMING AND TESTING. 3. CONTRACTOR TO HAVE SYSTEM FACTORY SUPPORT FOR START UP, PROGRAMMING AND COMMISSIONING. VERIFY OPERATIONAL HOURS WITH OWNER PRIOR TO COMMISSIONING.	
	ELECTRICAL POWER ALL LINE VOLTAGE WIRING IN CONDUIT, SEE GENERAL NOTES TICKS = # OF #12 WIRE, SHORT = HOT, LONG = NEUTRAL, DOT = GROUND, UNLESS NOTED OTHERWISE	
	120V OUTLET, +18" TO BOTTOM OF BOX • S = SIGN • F = FLOOR • GFI = GROUND FAULT INTERRUPTER	
	COUNTER OUTLET. +44" TO TOP OF BOX.	
	QUADRUPLEX OUTLET	
	HALF SWITCHED OUTLETS	
	JUNCTION BOX WITH MOTOR TOGGLE DISCONNECT	
	JUNCTION BOX	
	MOTOR / DISCONNECT	
	PANELBOARD	
	TRANSFORMER / SWITCHBOARD AS NOTED	
	COMMUNICATIONS TELEPHONE BACKBOARD, PROVIDE #8 GND TO SERVICE GROUND	
	COMMUNICATIONS OUTLET, PHONE & DATA	
	PHONE ONLY OUTLET, PREWIRED WITH CAT 6 CABLE	
	DATA ONLY OUTLET JACK, PREWIRED WITH CAT 6 CABLE	
	IP SPEAKER	
	CLOCK SPEAKER (IP BASED)	
	WIRELESS ACCESS POINT	
	TEACHER STATION	
	HDMI CONNECTOR IN FLUSH WALL PLATE	
	TV EXIST WITH COAX OUTLET, NEW WITH 2 DATA AND HDMI	

ELECTRICAL LEGEND

	DRAFTING NOTATIONS KEY NOTE, SEE SCHEDULE	ELECTRICAL ABBREVIATIONS: AL = ALUMINUM A = AMPERAGE AIC = AMPS INTERRUPTING CAPACITY AFF = ABOVE FINISHED FLOOR AFG = ABOVE FINISHED GRADE CKT = CIRCUIT CO = CONDUIT ONLY CU = COPPER EC = ELECTRICAL CONTRACTOR GC = GENERAL CONTRACTOR GFI = GROUND FAULT INTERRUPTER GND = GROUND KW = KILOWATT KVA = KILO-VOLT-AMPERE LC = LIGHTING CONTACTOR NO = NUMBER NL = NIGHT LIGHT PB = PULLBOX SP = SPACE UG = UNDERGROUND UON = UNLESS OTHERWISE NOTED V = VOLT WP = WEATHERPROOF
	EQUIPMENT TAG, SEE SCHEDULE	
	REFERENCE TO A DETAIL VIEW "A" ON SHEET E-2	
	NEW ELECTRICAL CONDUIT AND WIRE	
	EXISTING DEVICE, TO REMAIN IN OPERATION	
	REMOVE DEVICE, KEEP REMAINDER OF CIRCUIT IN OPERATION	
	REMOVE, RELOCATE AND RECONNECT DEVICE ON EXISTING CIRCUIT, EXTEND CIRCUIT	
	ONE LINE DIAGRAM	
	BUS / SWITCHBOARD	 50/3) CIRCUIT BREAKER 50 AMP RATED, 3 POLE GFI = GROUND FAULT INTERRUPTER AFCI = ARC FAULT CIRCUIT INTERRUPTER
	PANEL	
	GROUND	 DISCONNECT, RATED TO POWER SOURCE VOLTAGE AND AMPERAGE RATING FOR FUSE OR AS NOTED
	METER	
	CURRENT TRANSFORMER	 60 FUSE, SIZE = 60 AMPS
	POTENTIAL TRANSFORMER	 AUTOMATIC TRANSFER SWITCH
	DRY TYPE TRANSFORMER	
	MOTOR	 50/3 ENGINE DRIVEN GENERATOR RATING AS NOTED AGAINST THE UNIT.
	RELAY CRW = CONTROL RELAY TDR = TIME DELAY RELAY M = MOTOR STARTER CONTACTOR RELAY ETM = ELAPSE TIME METER	 52 DRAW OUT DEVICE
	CONTACT (OPEN)	 ANSI RELAY
	CONTACT (CLOSED)	
	VARIABLE FREQ. DRIVE	
	MOTOR OVERLOAD HEATER	
	INDICATOR LIGHT (R) RED, (W) WHITE	
	ANTENNA	

MOUNTING HEIGHTS



MEP COMPONENT ANCHORAGE

APPLICABLE CODE: 2022 CBC

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.

2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.

3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

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THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

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MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E).

MP ☐ MD ☐ PP ☒ E ☒ - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DEALS.

MP ☐ MD ☐ PP ☐ E ☐ - OPTION 2: SHALL COMPLY WITH HCAI PREAPPROVAL (OPM #)

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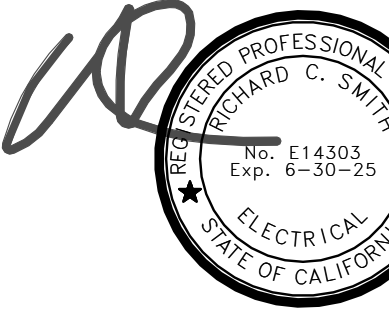
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architects

TIMOTHY P. HUFF & ASSOCIATES, INC.

Timothy P. Huff, AIA Architect
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**SHILOH ELEMENTARY SCHOOL
WATER TREATMENT SYSTEM**

8633 PARADISE ROAD, MODESTO, CALIFORNIA 95358

SHILOH ELEMENTARY SCHOOL DISTRICT

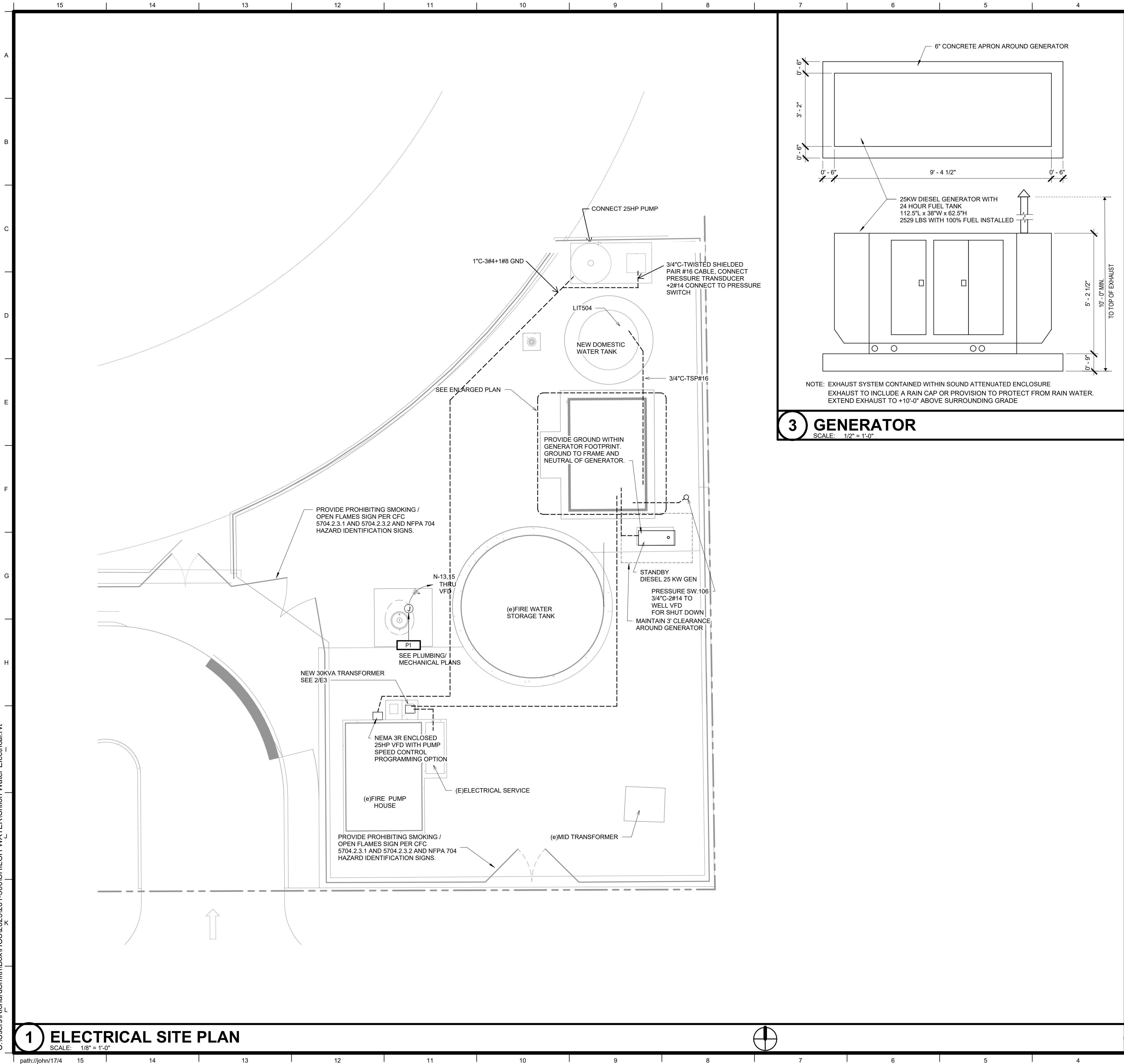
GENERAL NOTES, LEGEND

Project Number 2023
Date 9.14.2023
Drawn by Author
Checked by Checker

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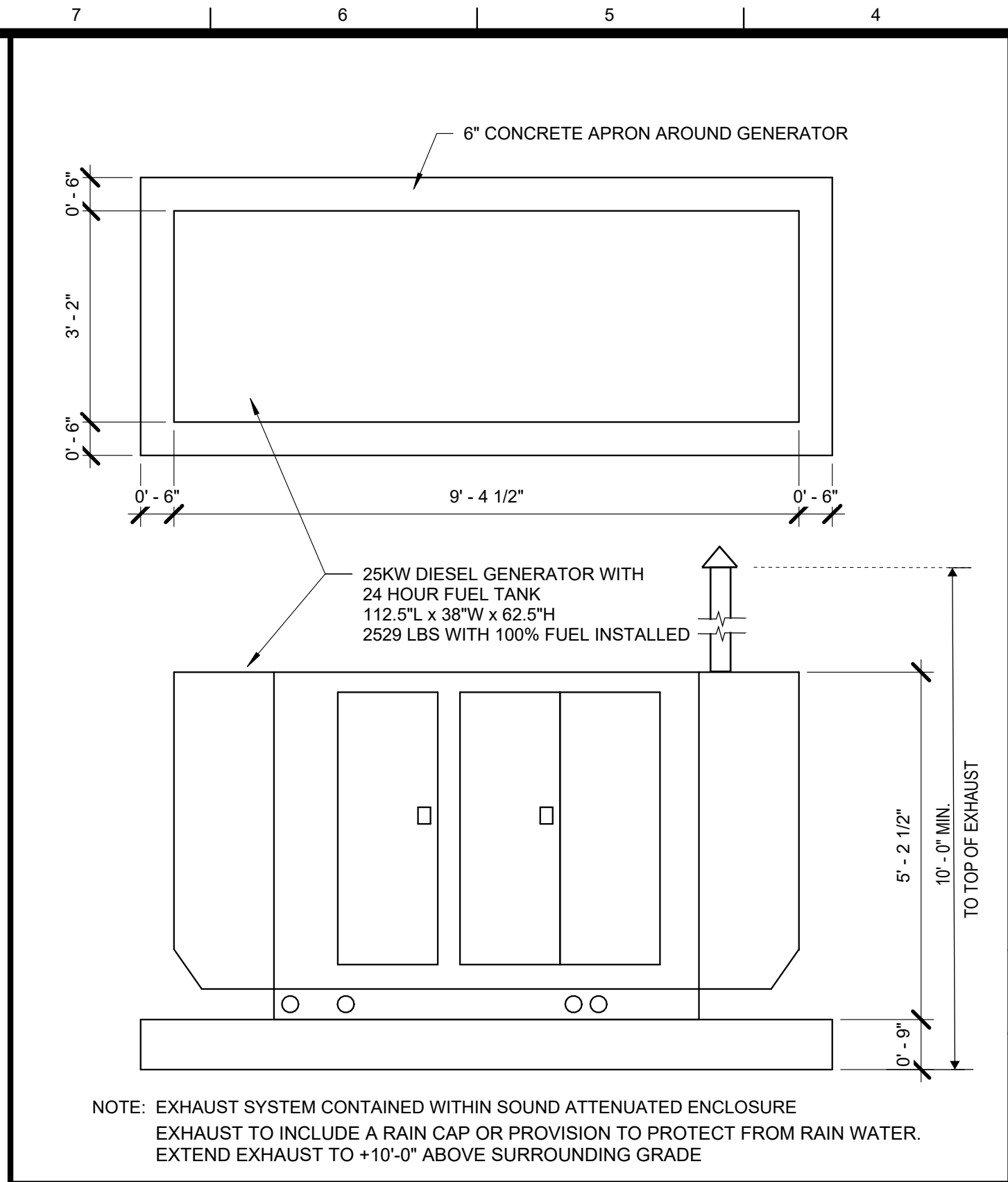
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1 ELECTRICAL SITE PLAN

SCALE: 1/8" = 1'-0"

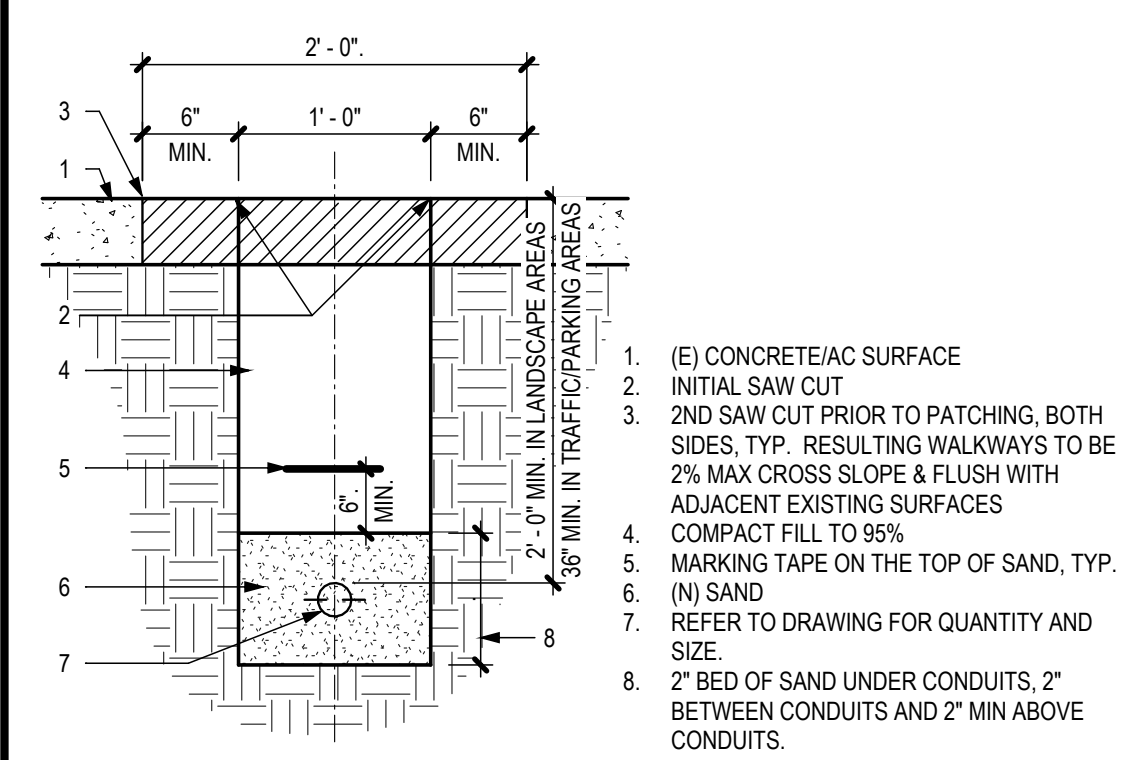


3 GENERATOR

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

SHEET NOTES	
Key Value	Keynote Text
P1	GOULDS 1/2HP, 240V, 1PH WELL PUMP. EXTEND 2"C-MANUFACTURER'S PUMP CABLE TO VFD STARTER.

NOTES



NOTE: PROVIDE MIN 12" CLEARANCE BETWEEN ELECTRICAL AND OTHER UTILITIES (GAS, WATER, ETC.).

2 TRENCH

SCALE: NTS

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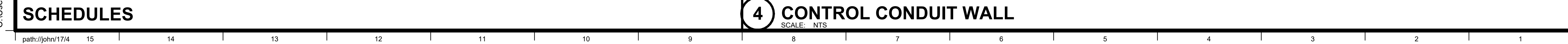
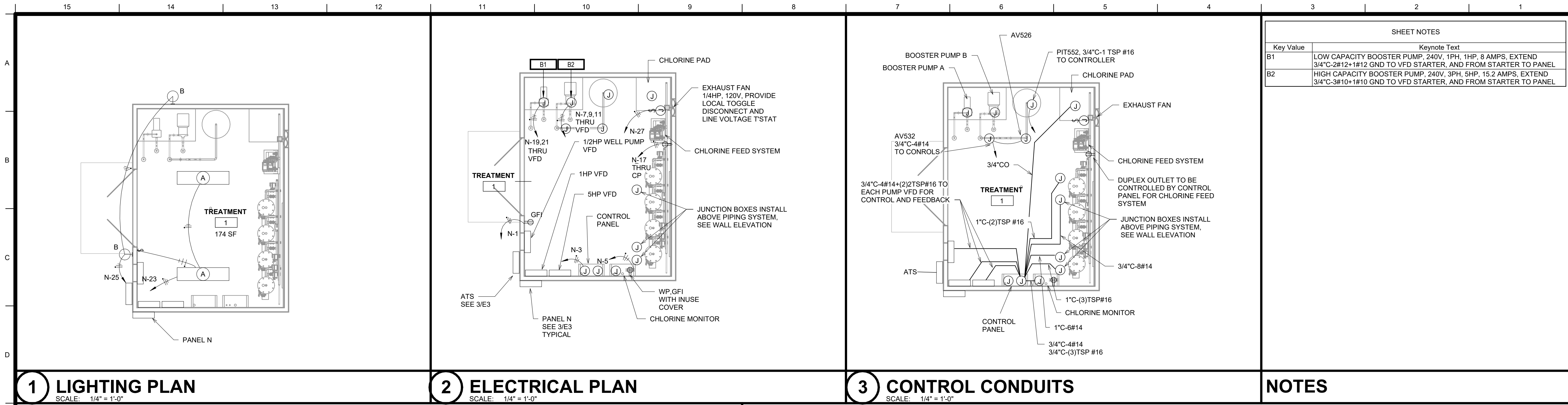
**SHILOH ELEMENTARY SCHOOL
WATER TREATMENT SYSTEM**
6633 PARADISE ROAD, MODESTO, CALIFORNIA 95358
SHILOH ELEMENTARY SCHOOL DISTRICT
ELECTRICAL SITE PLAN

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E1

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**SHILOH ELEMENTARY SCHOOL
WATER TREATMENT SYSTEM**

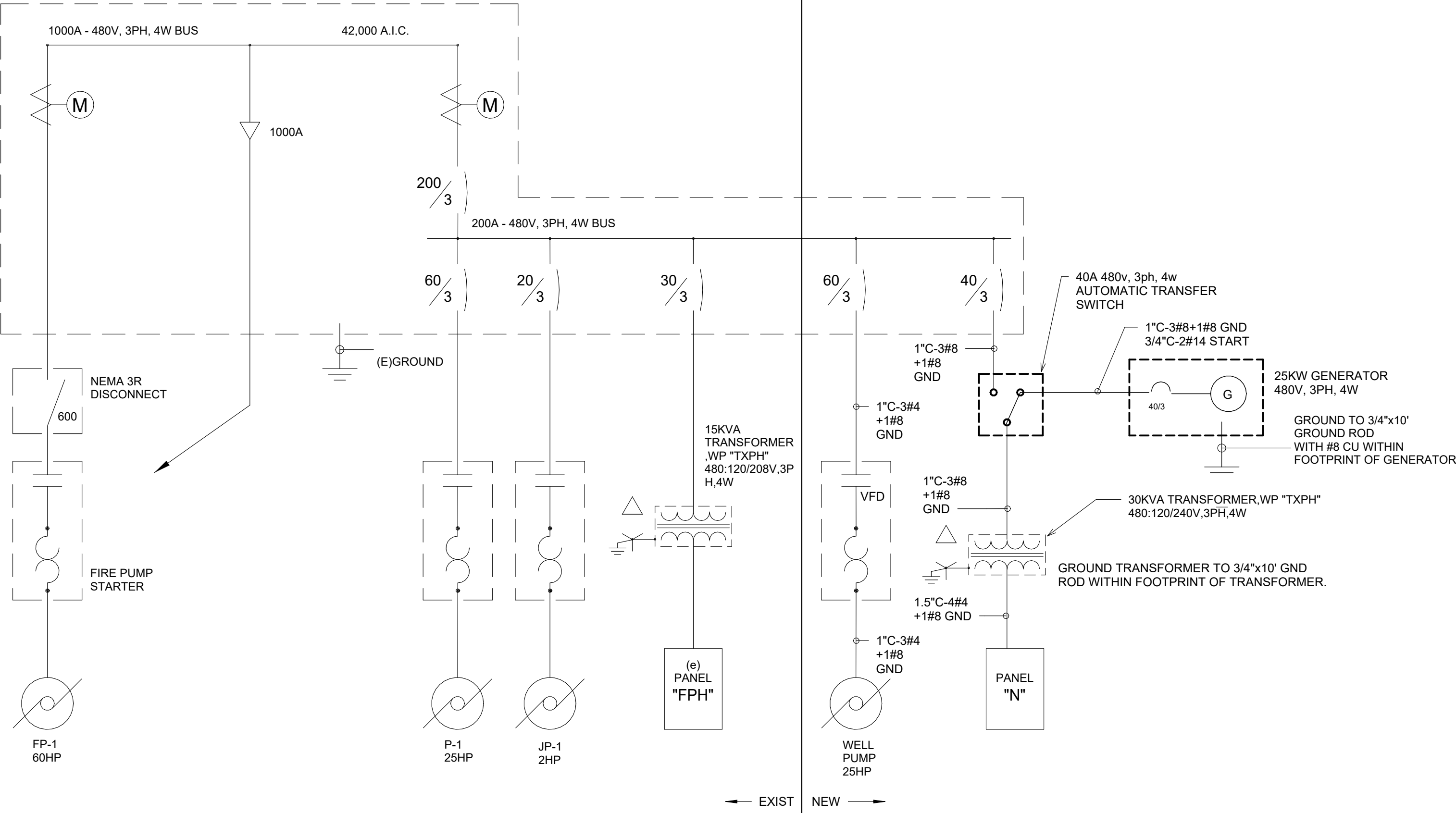
6633 PARADISE ROAD, MODESTO, CALIFORNIA 95358
SHILOH ELEMENTARY SCHOOL DISTRICT
ENLARGED PLAN

Project Number 2023
Date 9.14.2023
Drawn by BA
Checked by Checker

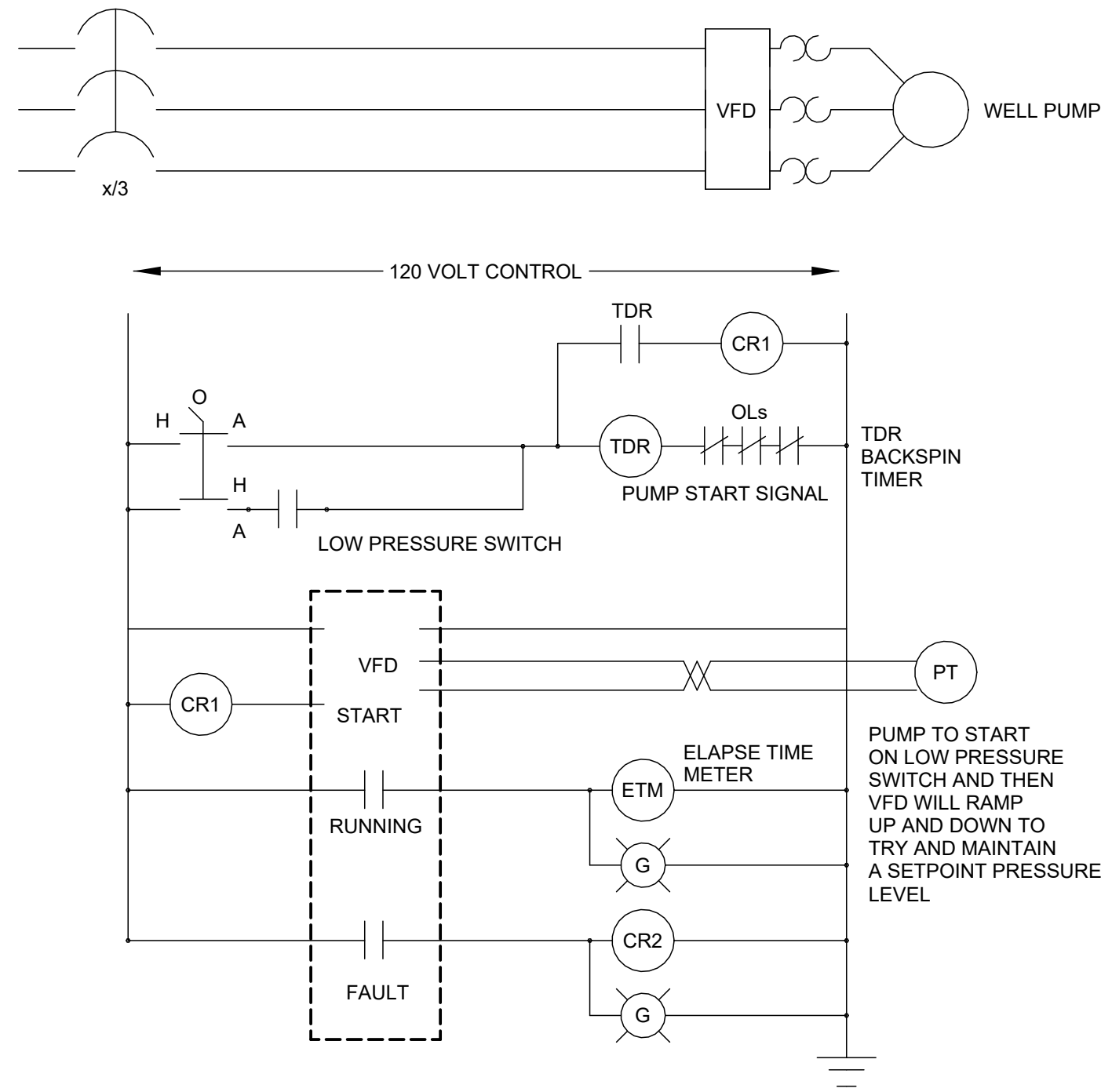
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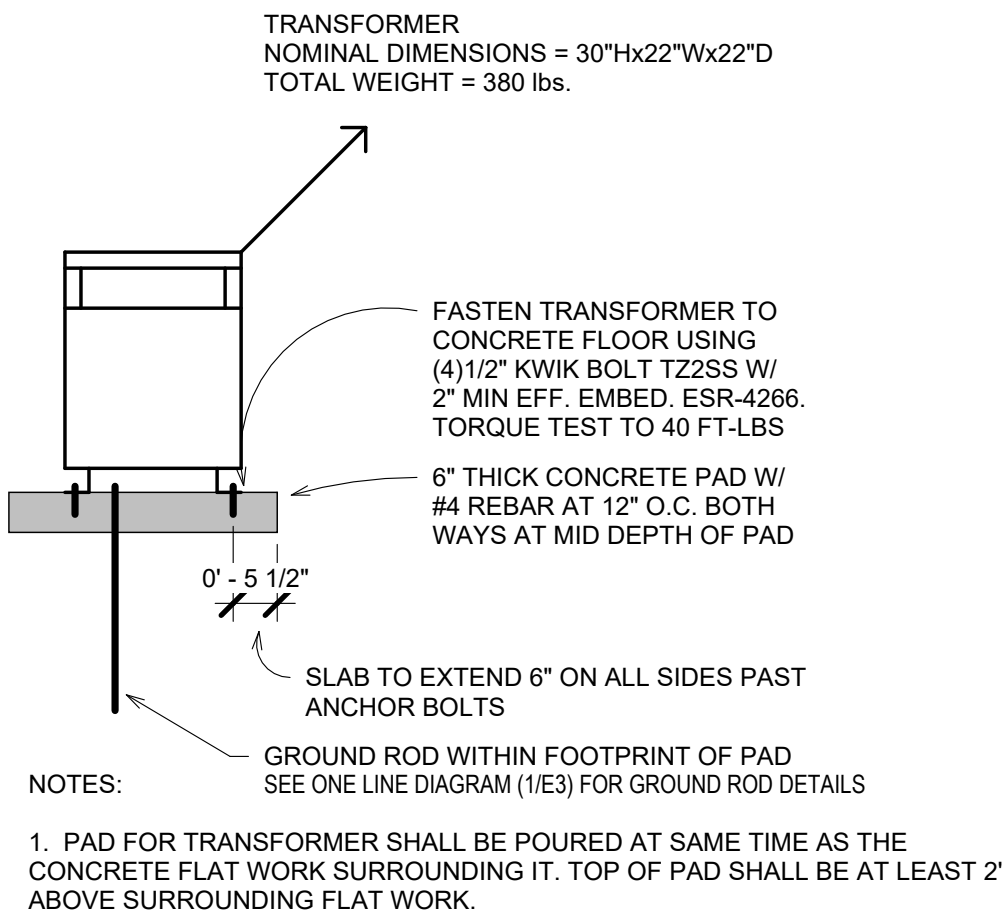
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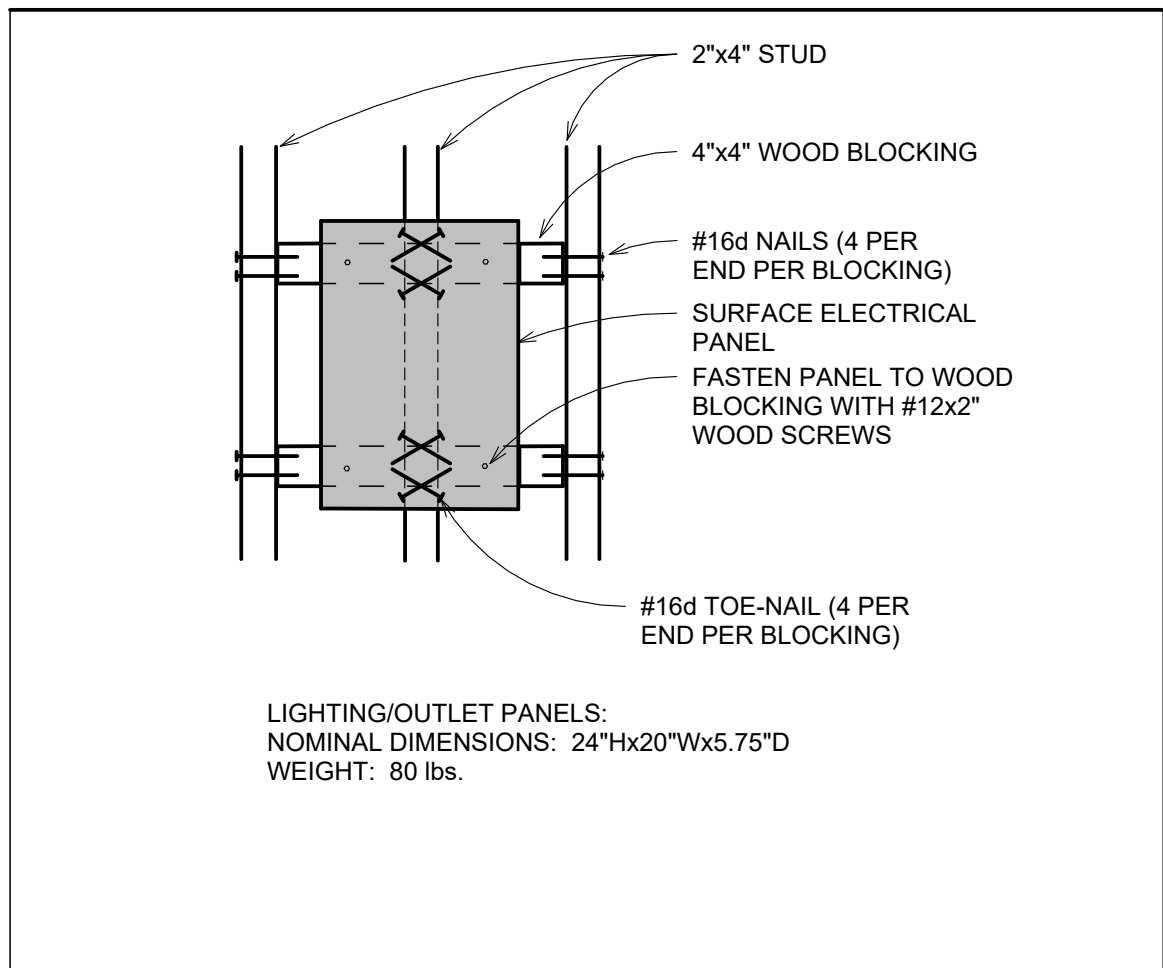
1 ONE LINE DIAGRAM
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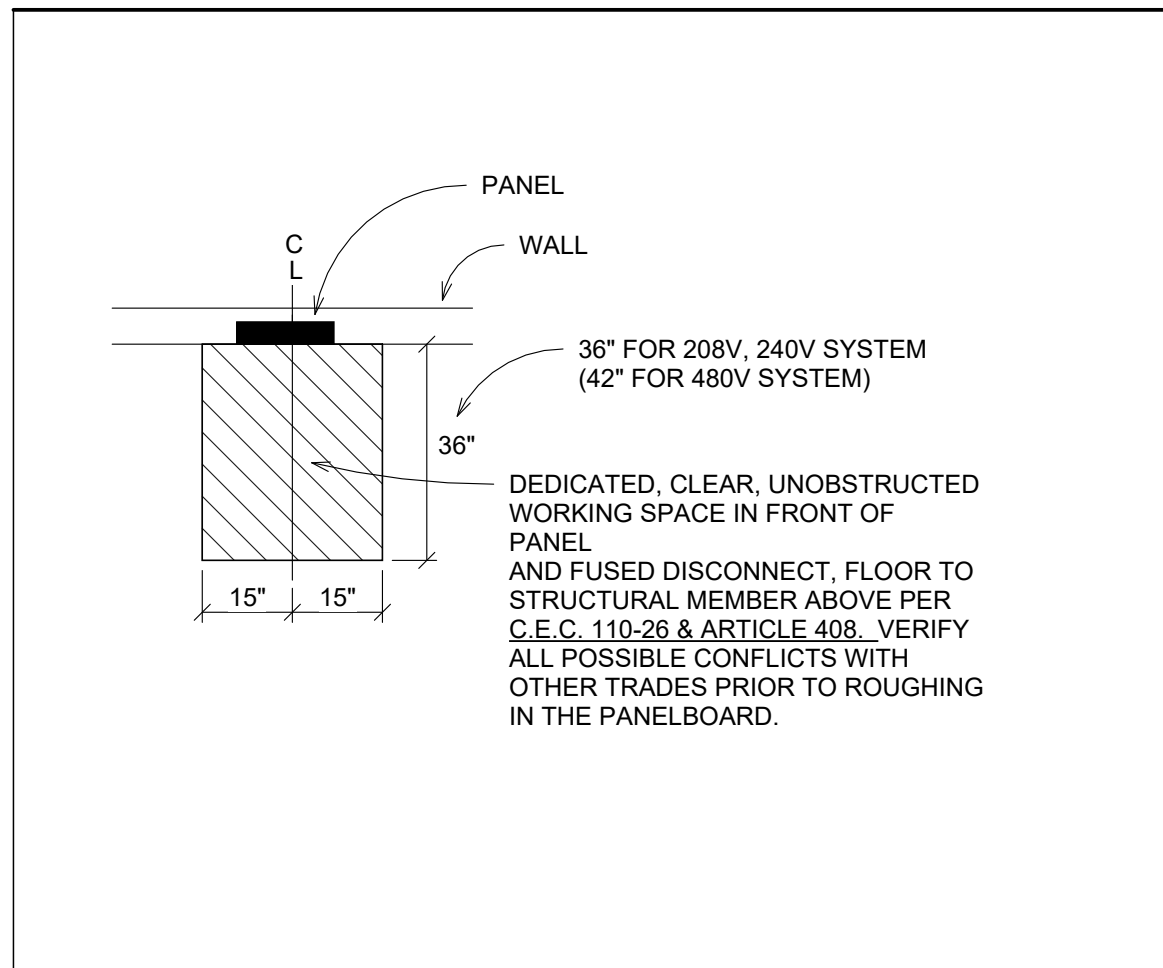
VFD STARTER
6 ELEMENTARY DIAGRAMS
SCALE: NTS



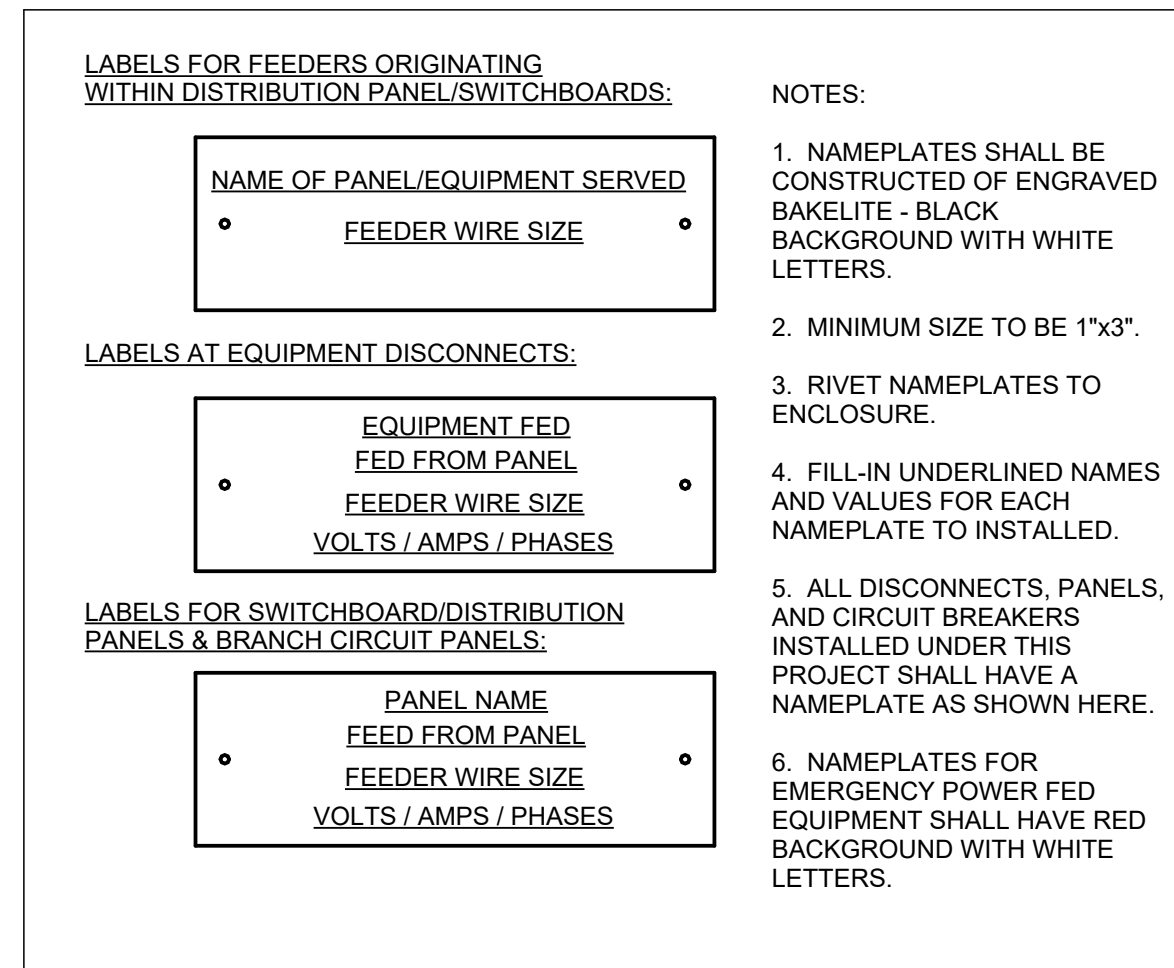
2 GRADE MOUNT TRANSFORMER
SCALE: NTS



3 SURFACE PANEL/ATS MOUNTING
SCALE: NTS



4 PANEL CLEARANCE
SCALE: NTS



5 PANEL LABELS
SCALE: NTS

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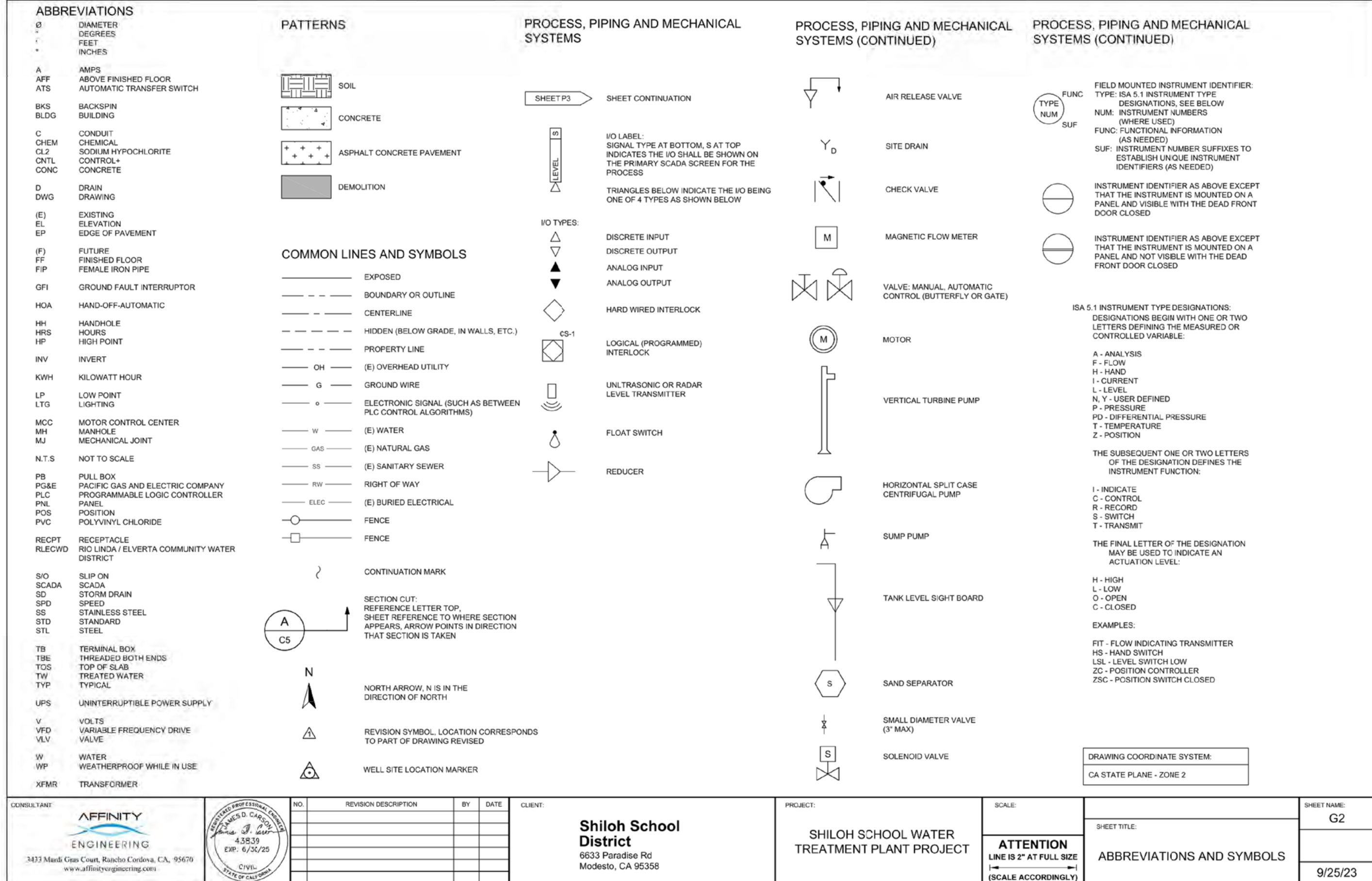
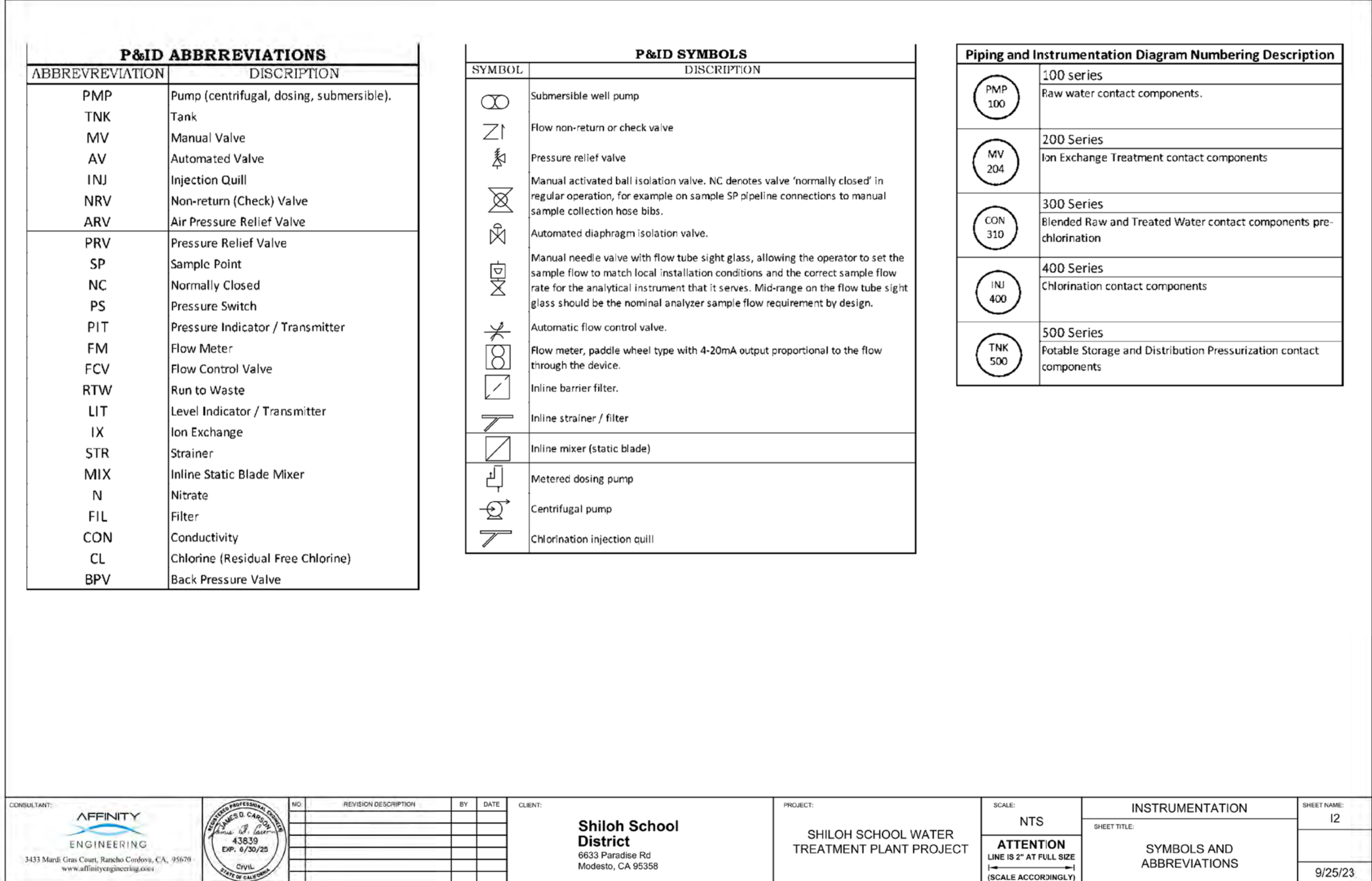
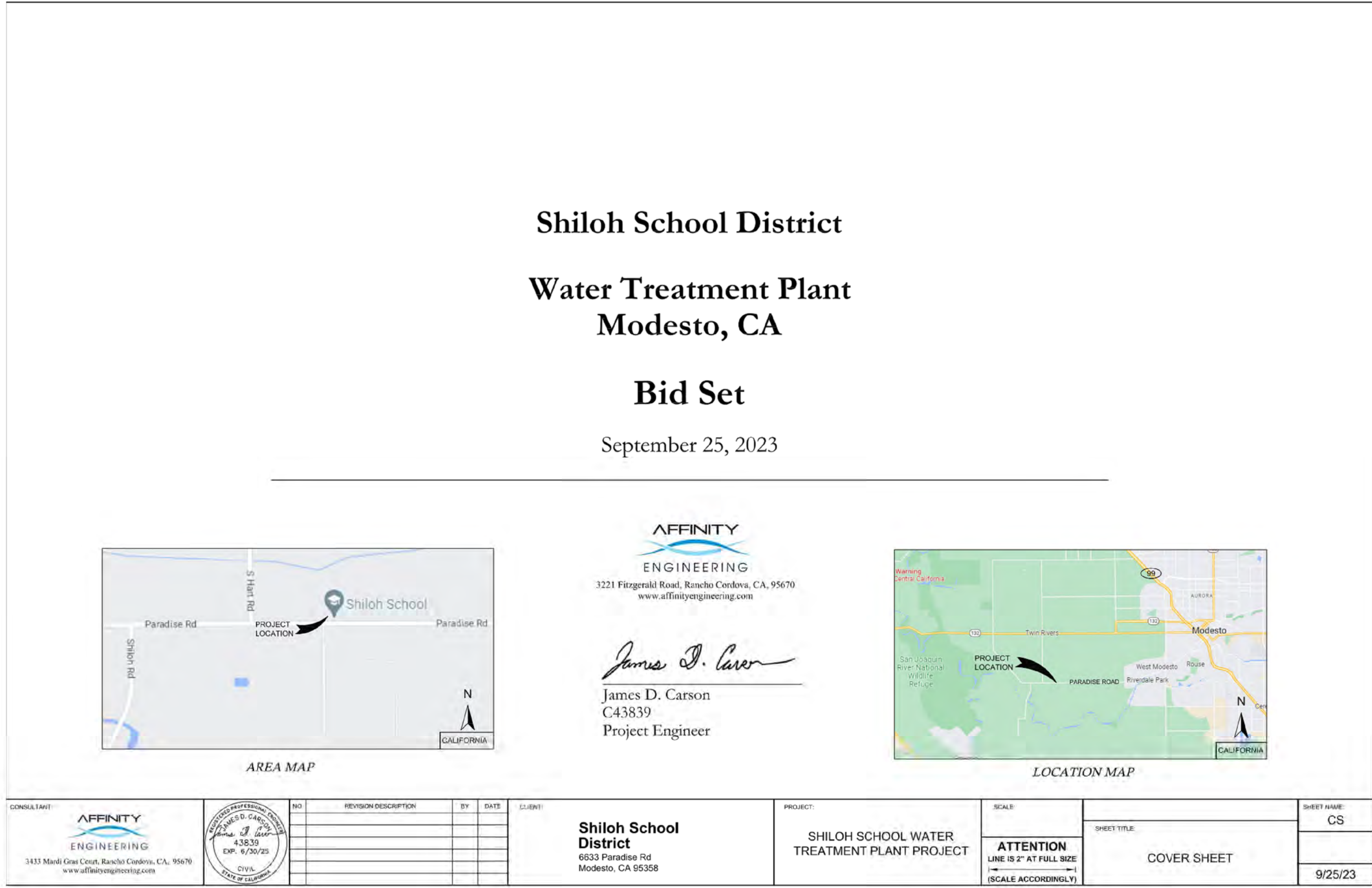
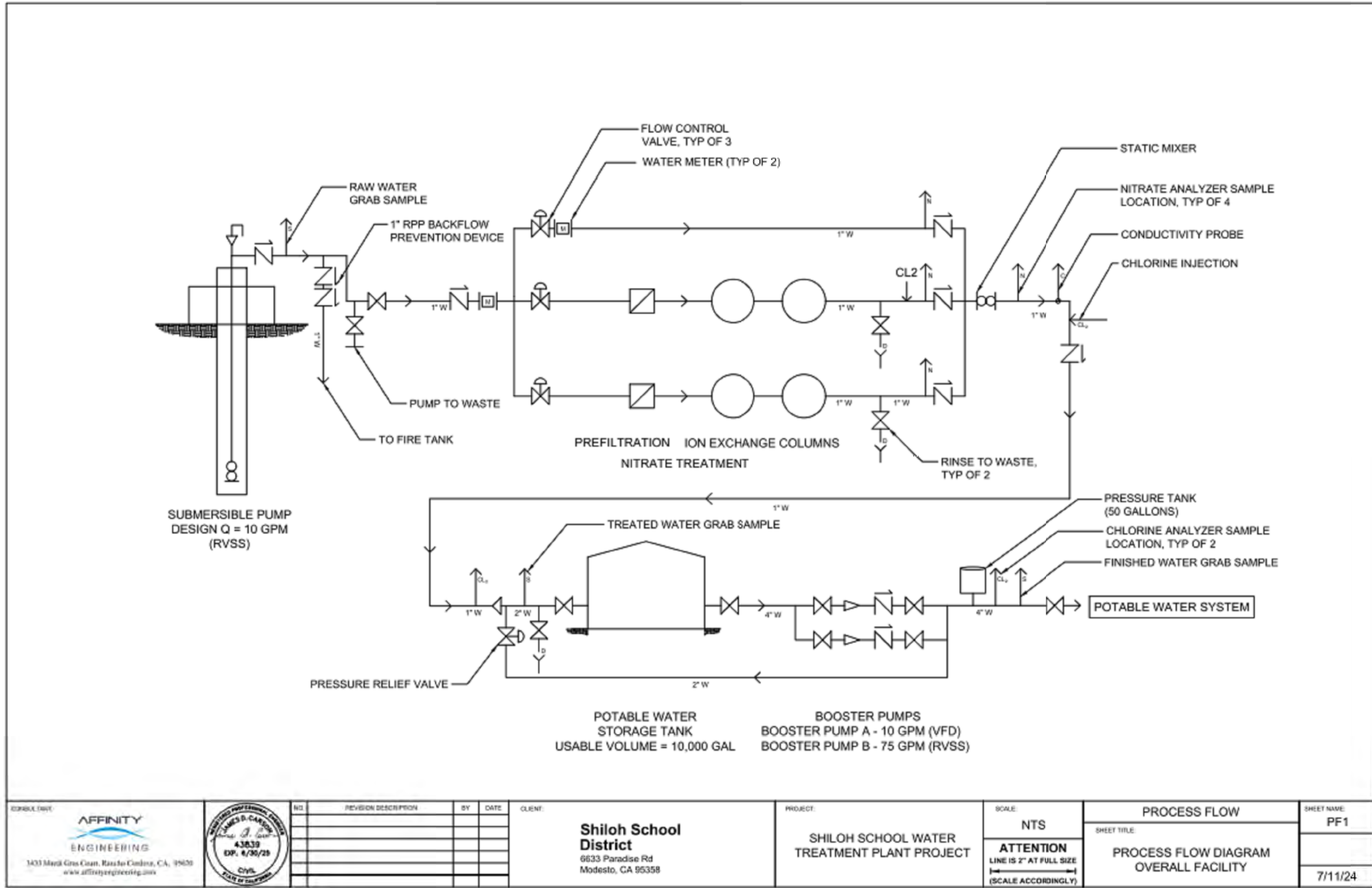
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SHILOH ELEMENTARY SCHOOL
WATER TREATMENT SYSTEM
6633 PARADISE ROAD, MODESTO, CALIFORNIA 95358
SHILOH ELEMENTARY SCHOOL DISTRICT
ELECTRICAL DETAILS

Project Number 2023
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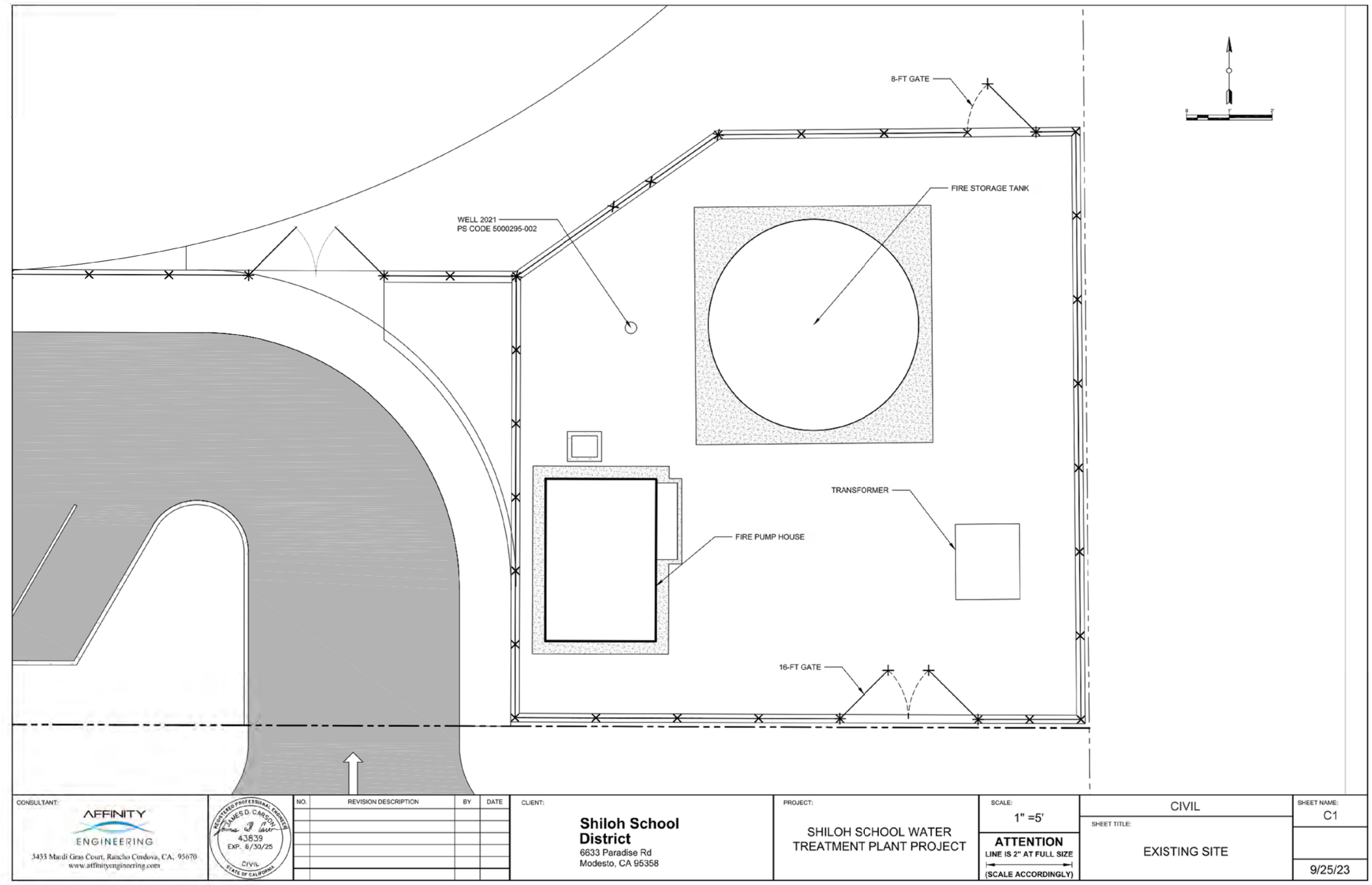
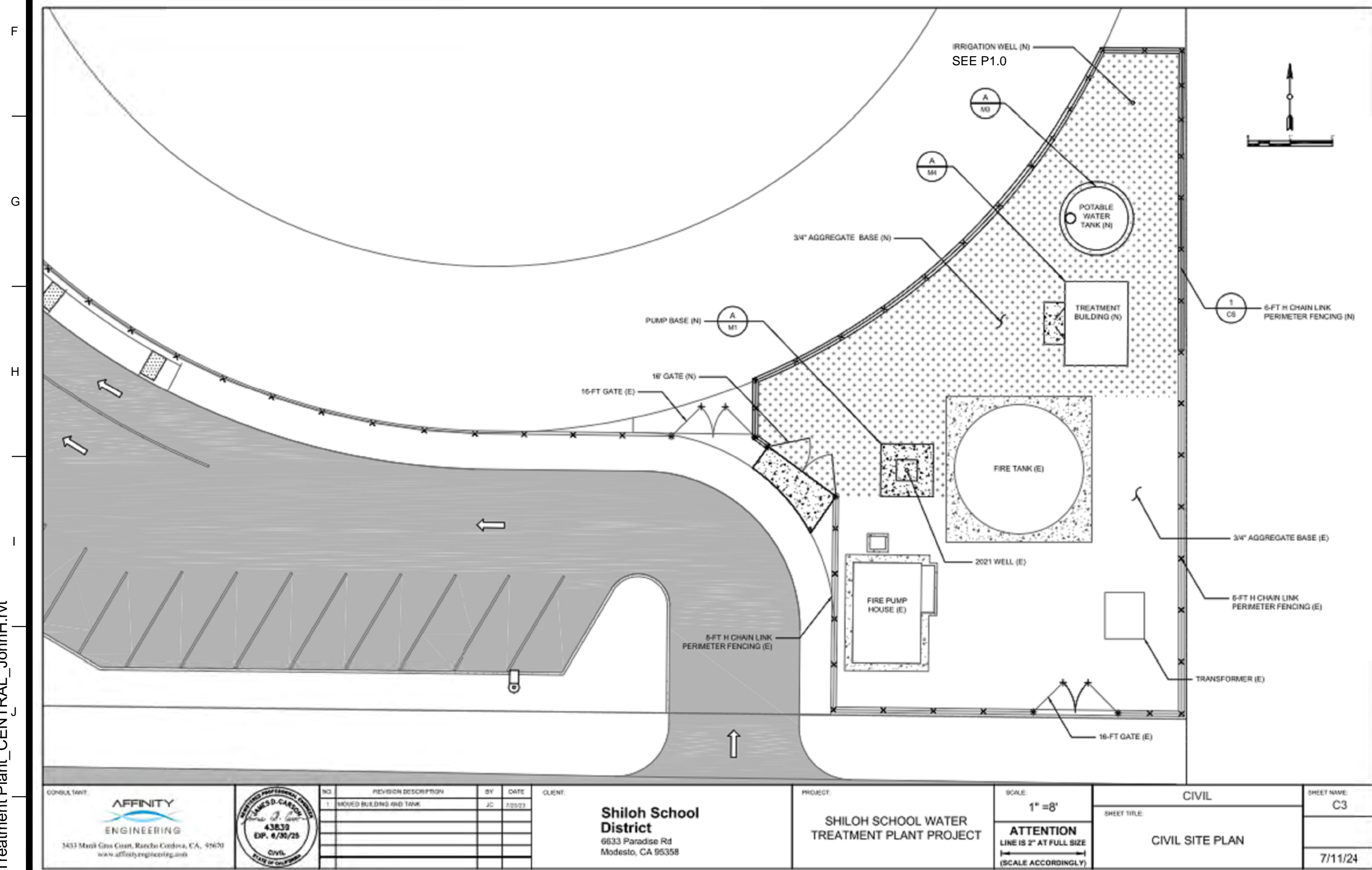
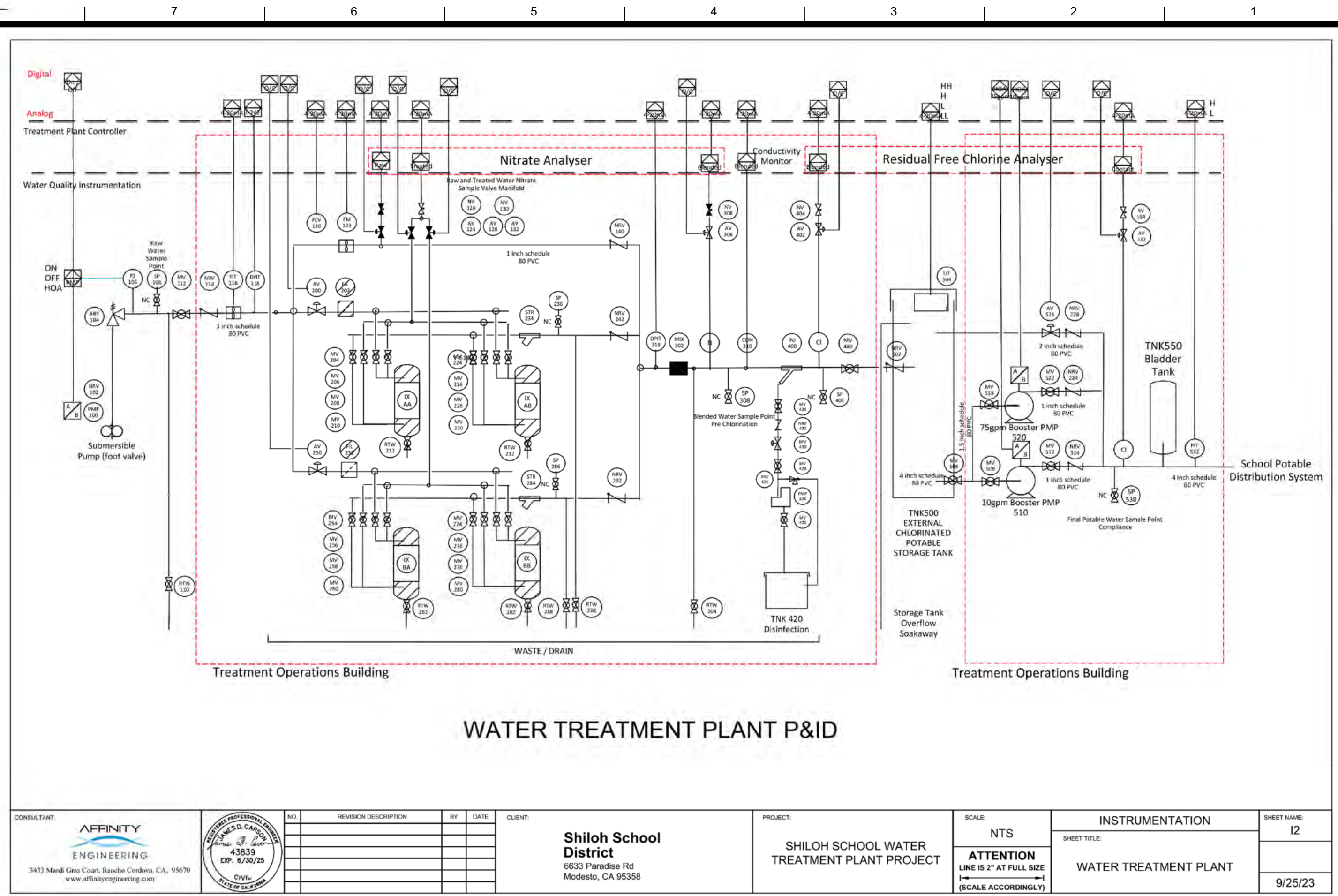
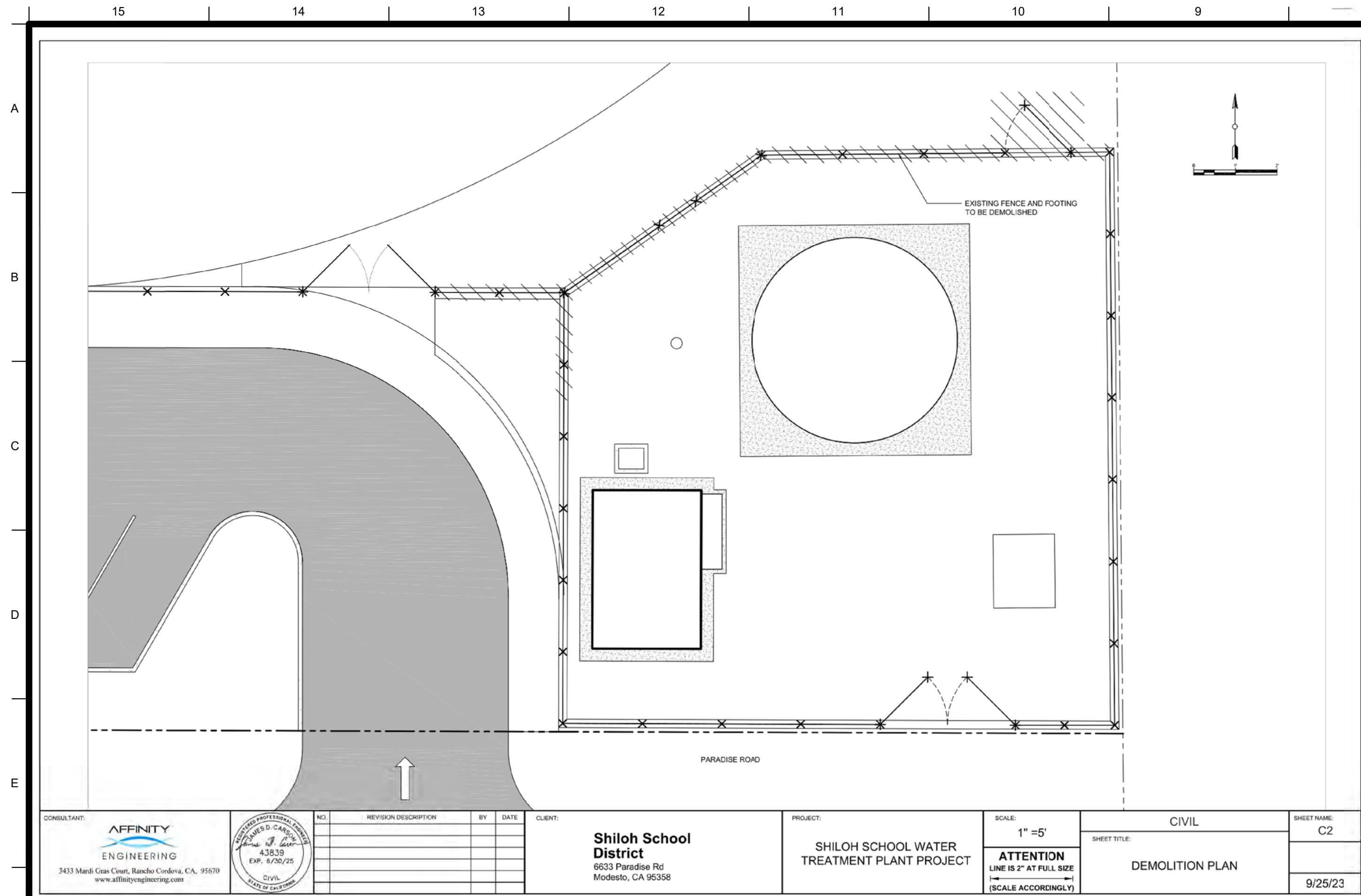
**SHILOH ELEMENTARY
WATER TREATMENT SYSTEM**

6633 PARADISE ROAD MODESTO, CALIFORNIA 95358
SHILOH ELEMENTARY SCHOOL DISTRICT
WATER TREATMENT PLANT

Project Number 2324
Date JAN 2024
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**SHILOH ELEMENTARY
WATER TREATMENT SYSTEM**

6633 PARADISE ROAD MODESTO, CALIFORNIA 95358

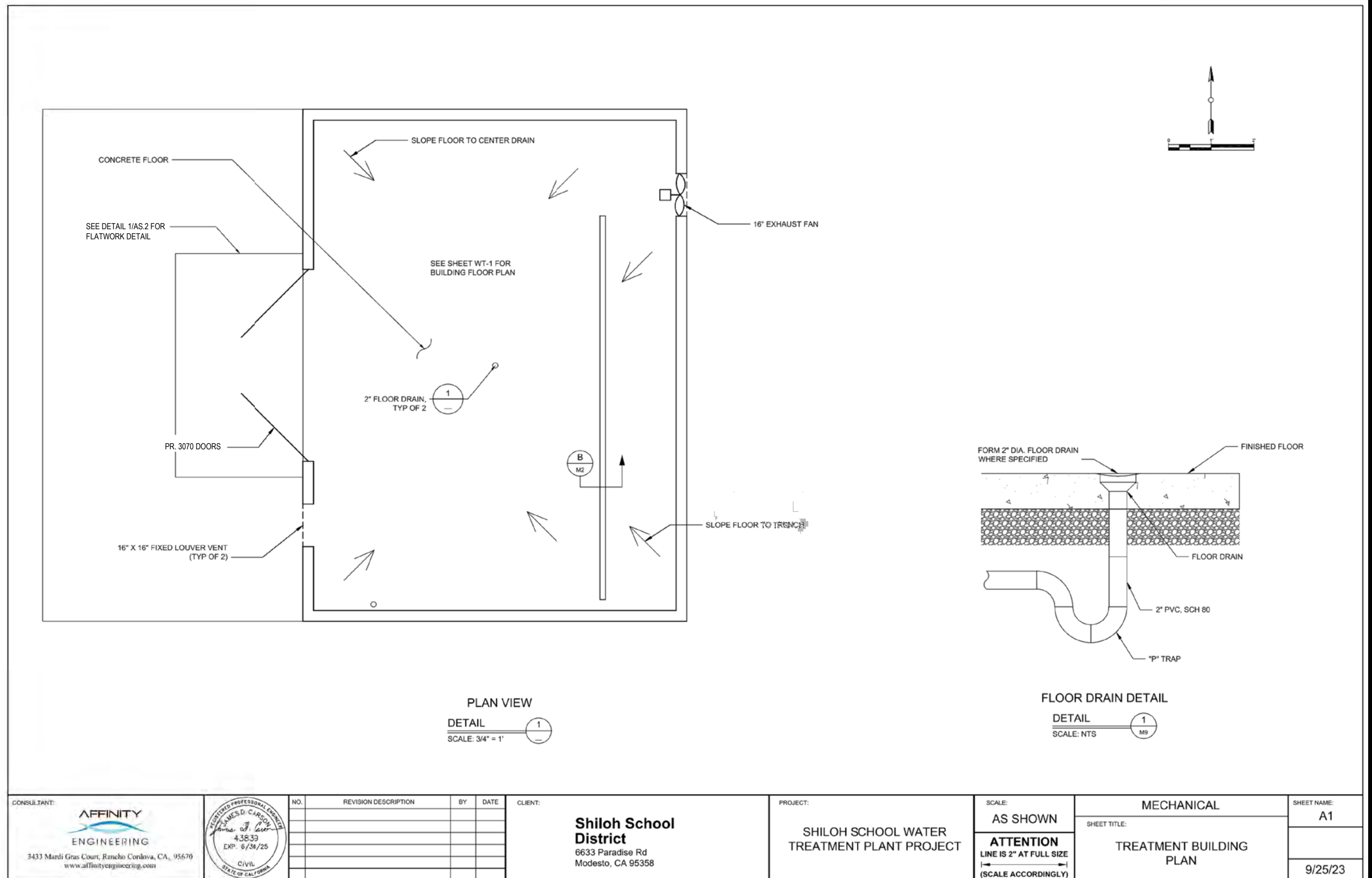
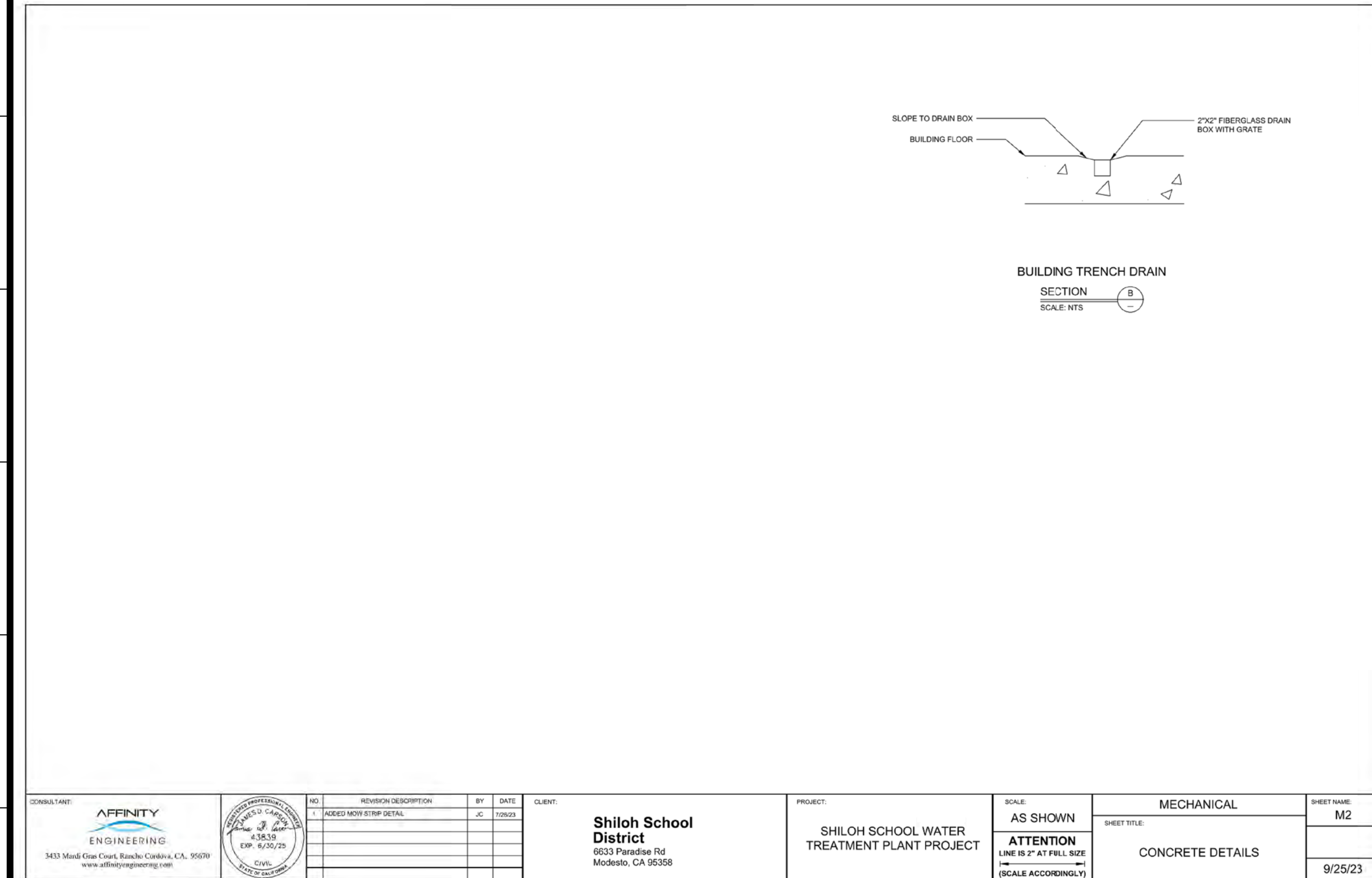
SHILOH ELEMENTARY SCHOOL DISTRICT

WATER TREATMENT PLANT

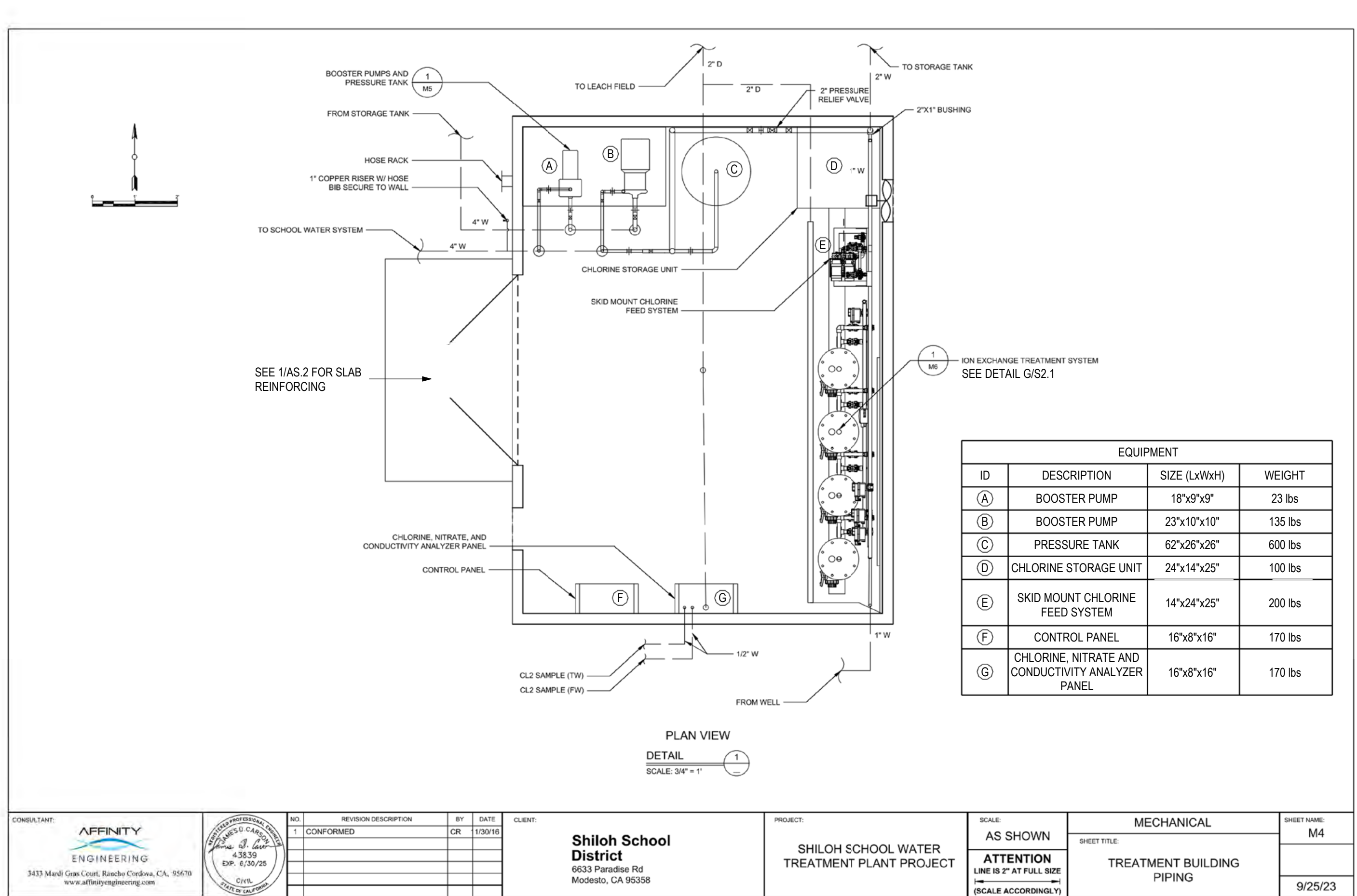
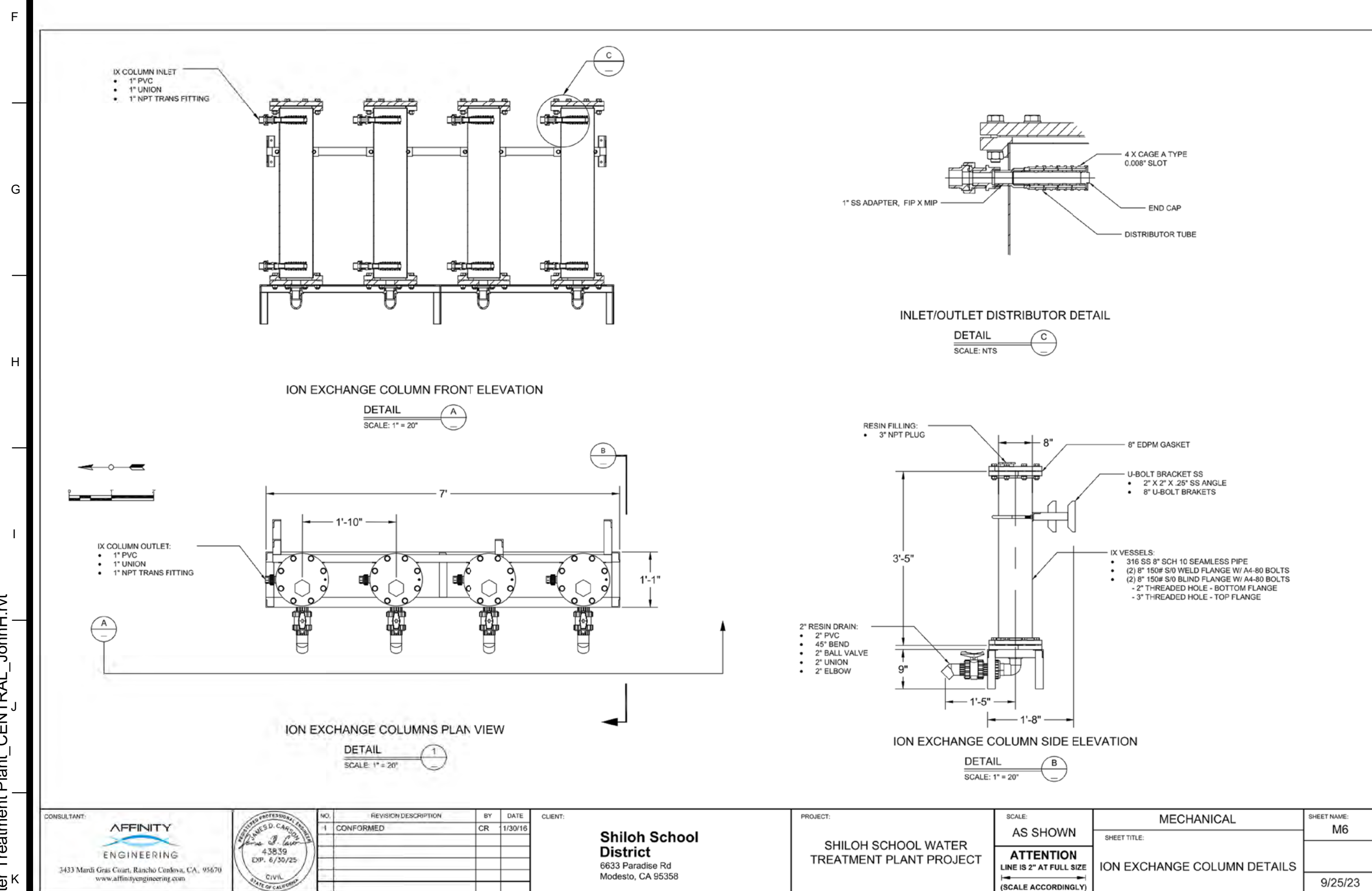
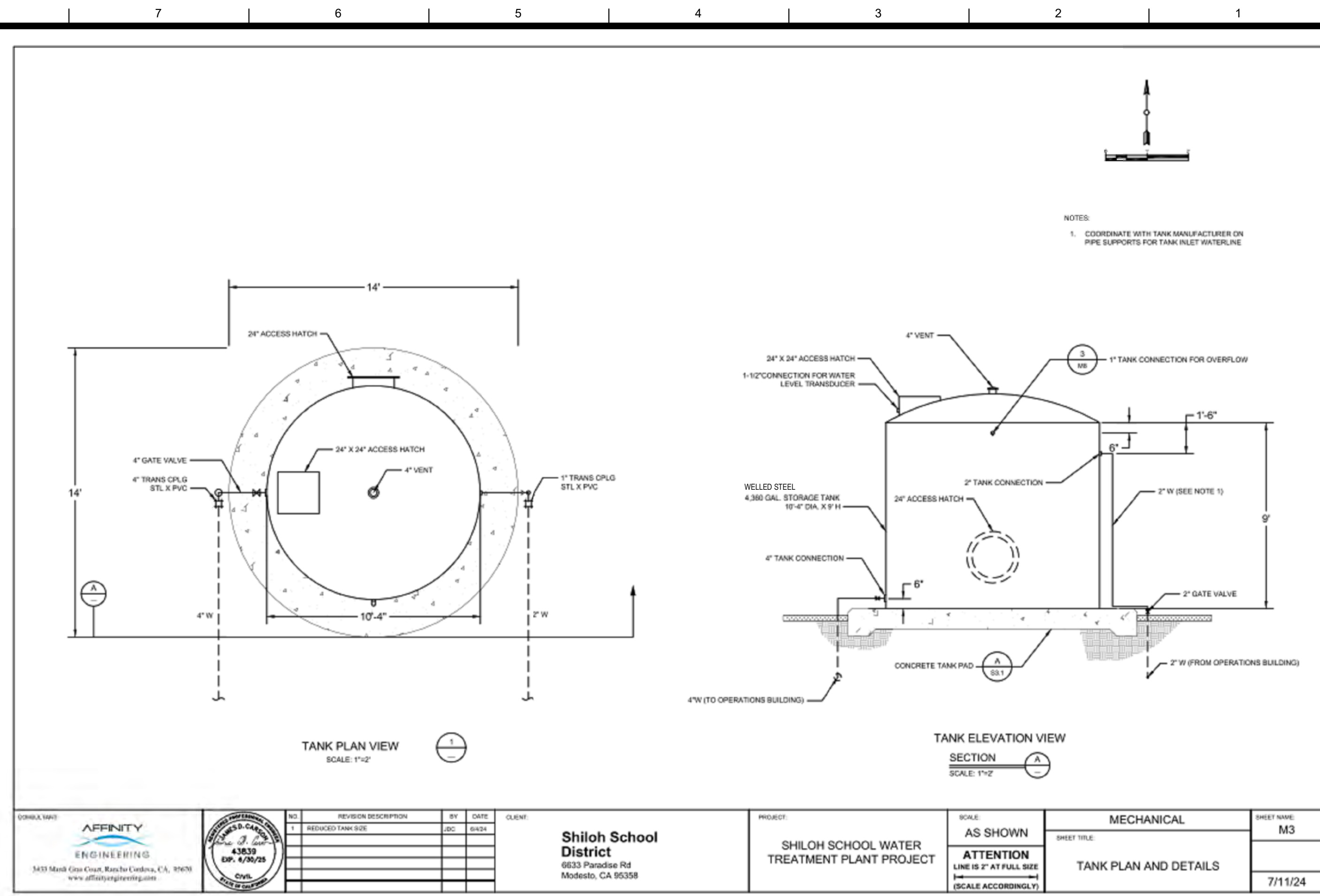
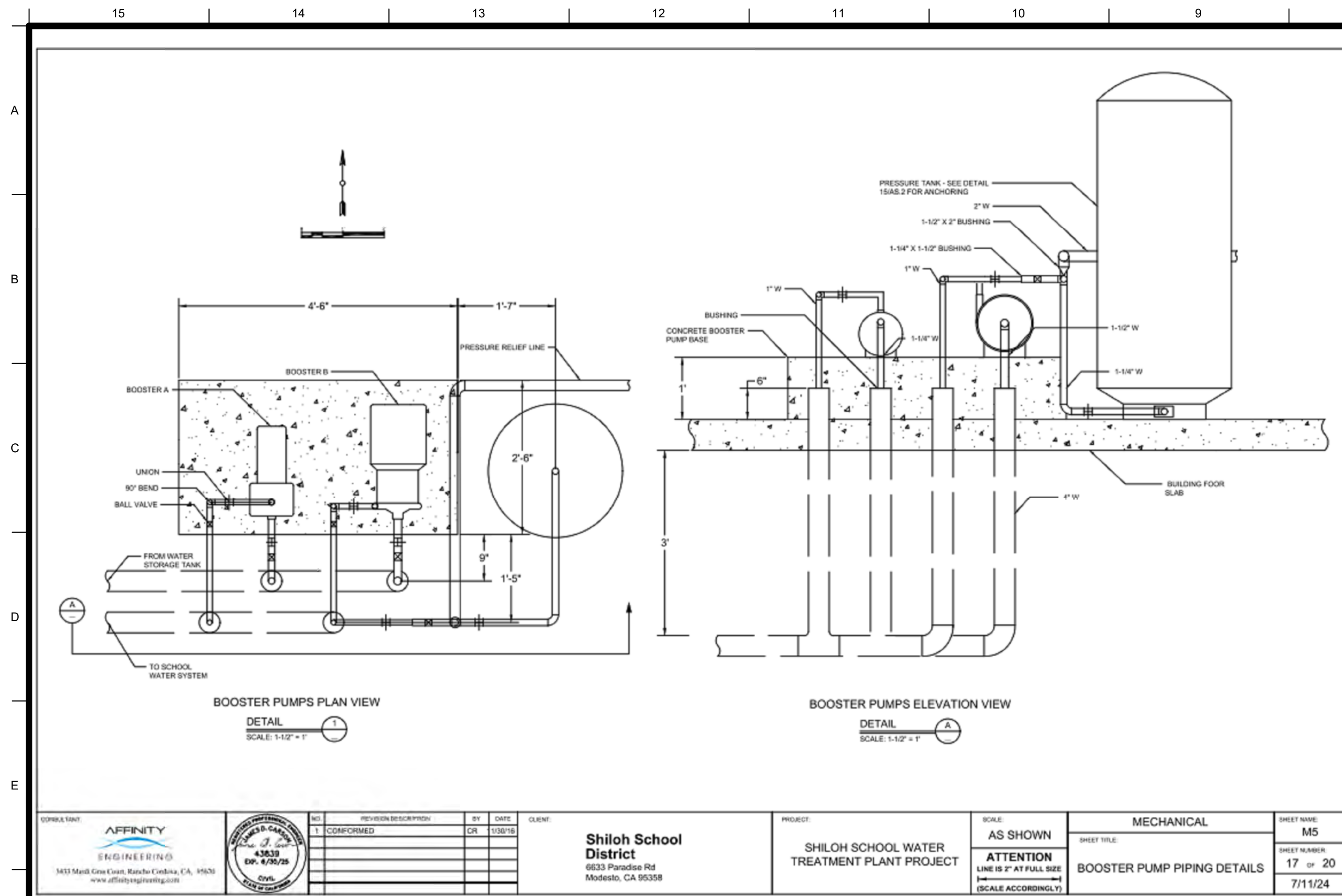
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**SHILOH ELEMENTARY
WATER TREATMENT SYSTEM**

**SHILOH ELEMENTARY SCHOOL DISTRICT
WATER TREATMENT PLANT**

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MEP COMPONENT ANCHORAGE

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PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

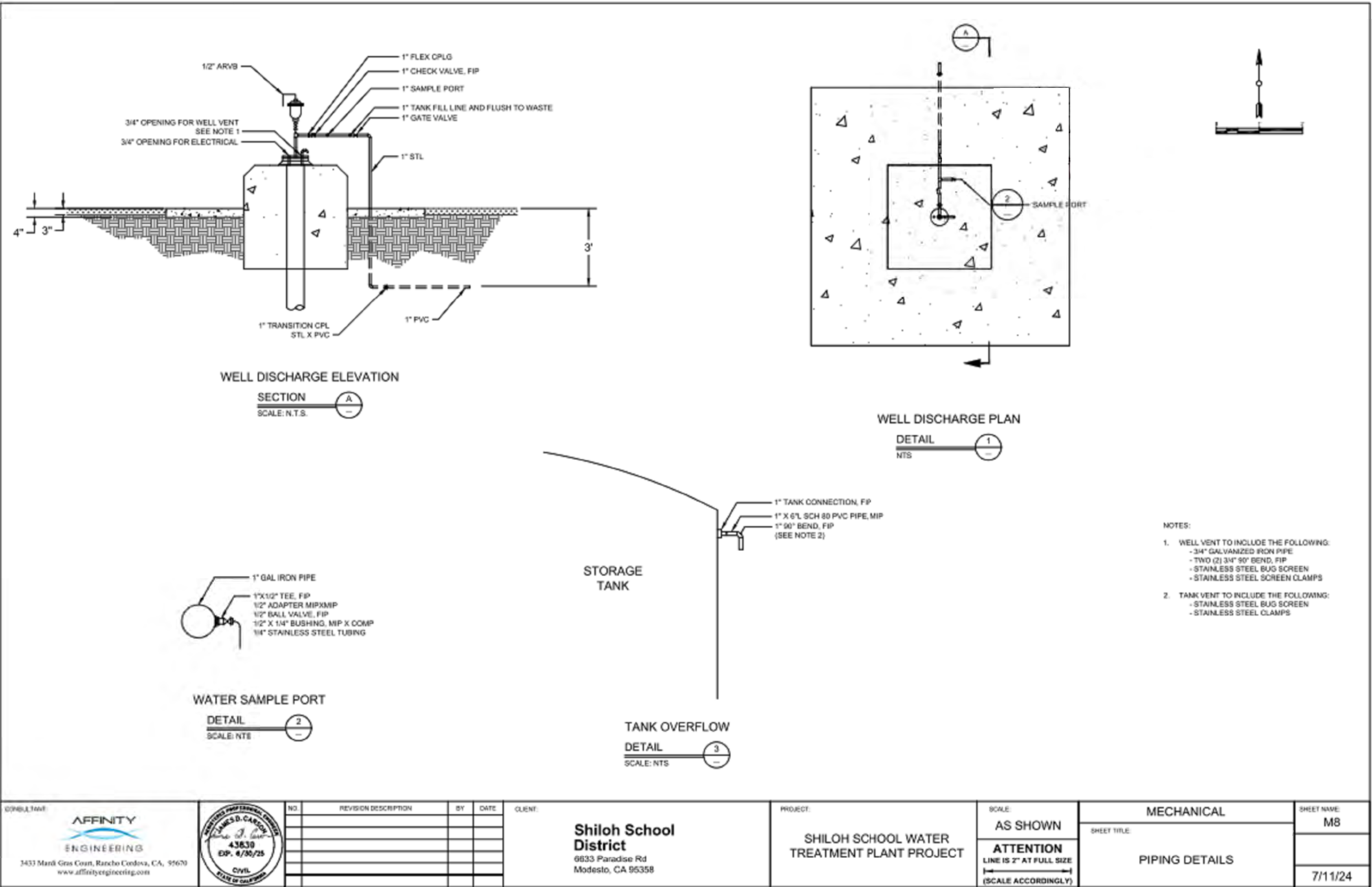
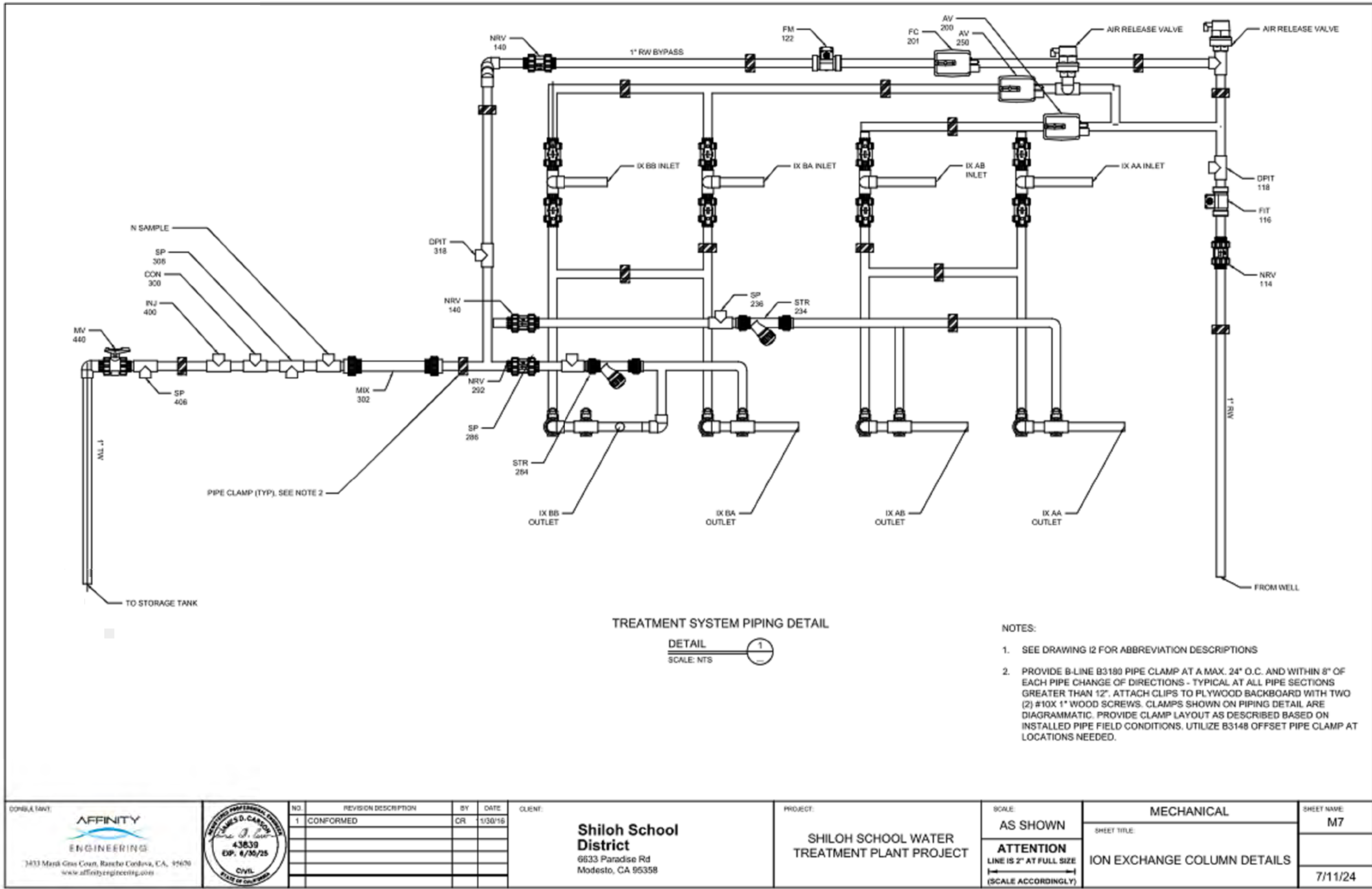
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MP ☐ MD ☐ PP ☐ E ☐ - OPTION 2: SHALL COMPLY WITH HCIA PREAPPROVAL (OPM #)

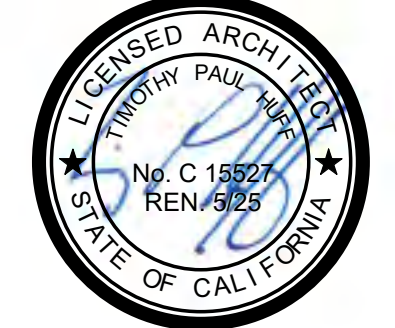


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SHILOH ELEMENTARY WATER TREATMENT SYSTEM

6633 PARADISE ROAD MODESTO, CALIFORNIA 95358

SHILOH ELEMENTARY SCHOOL DISTRICT

WATER TREATMENT PLANT

Project Number 2324
Date JAN 2024
Drawn by RRM
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