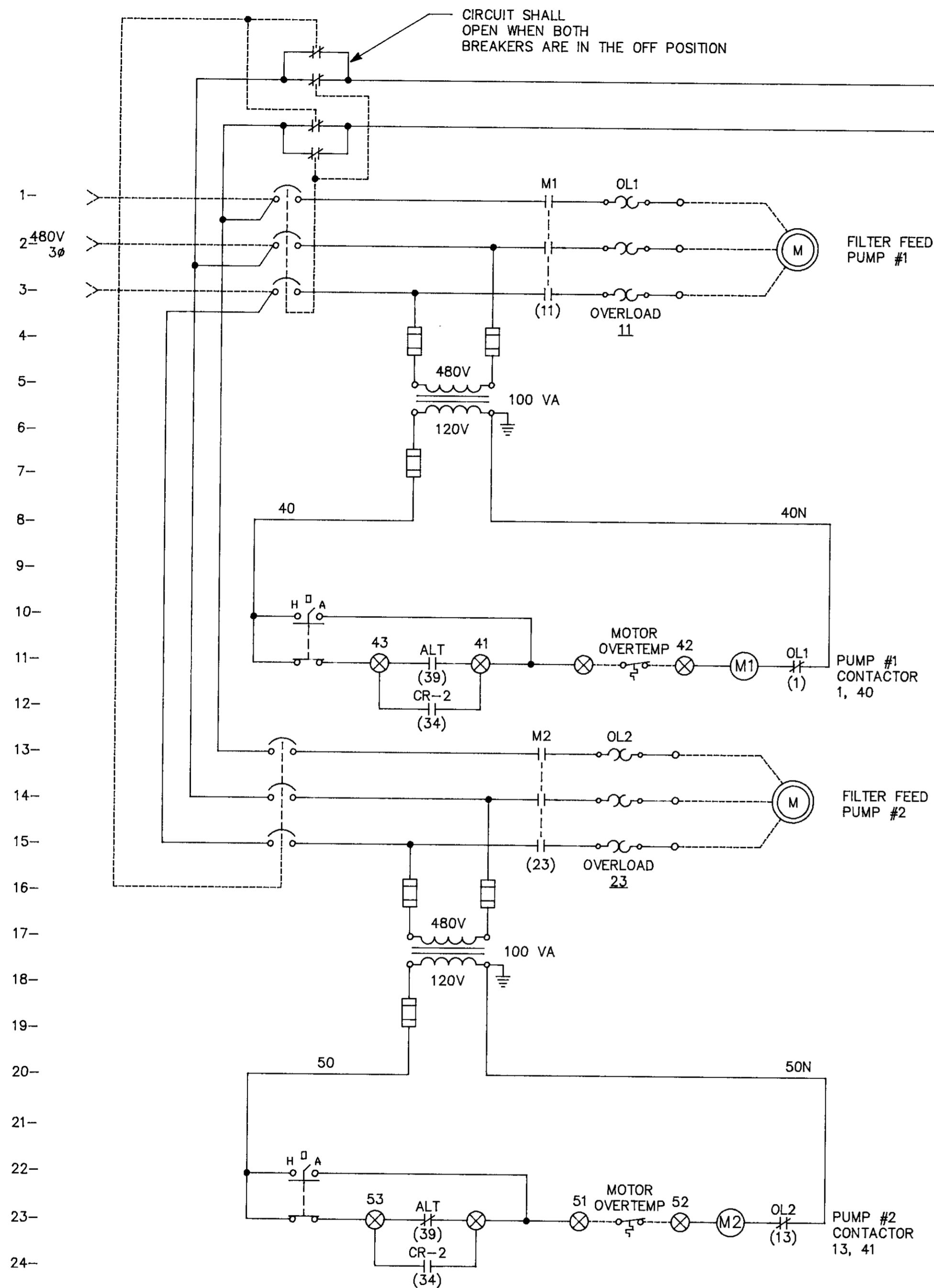
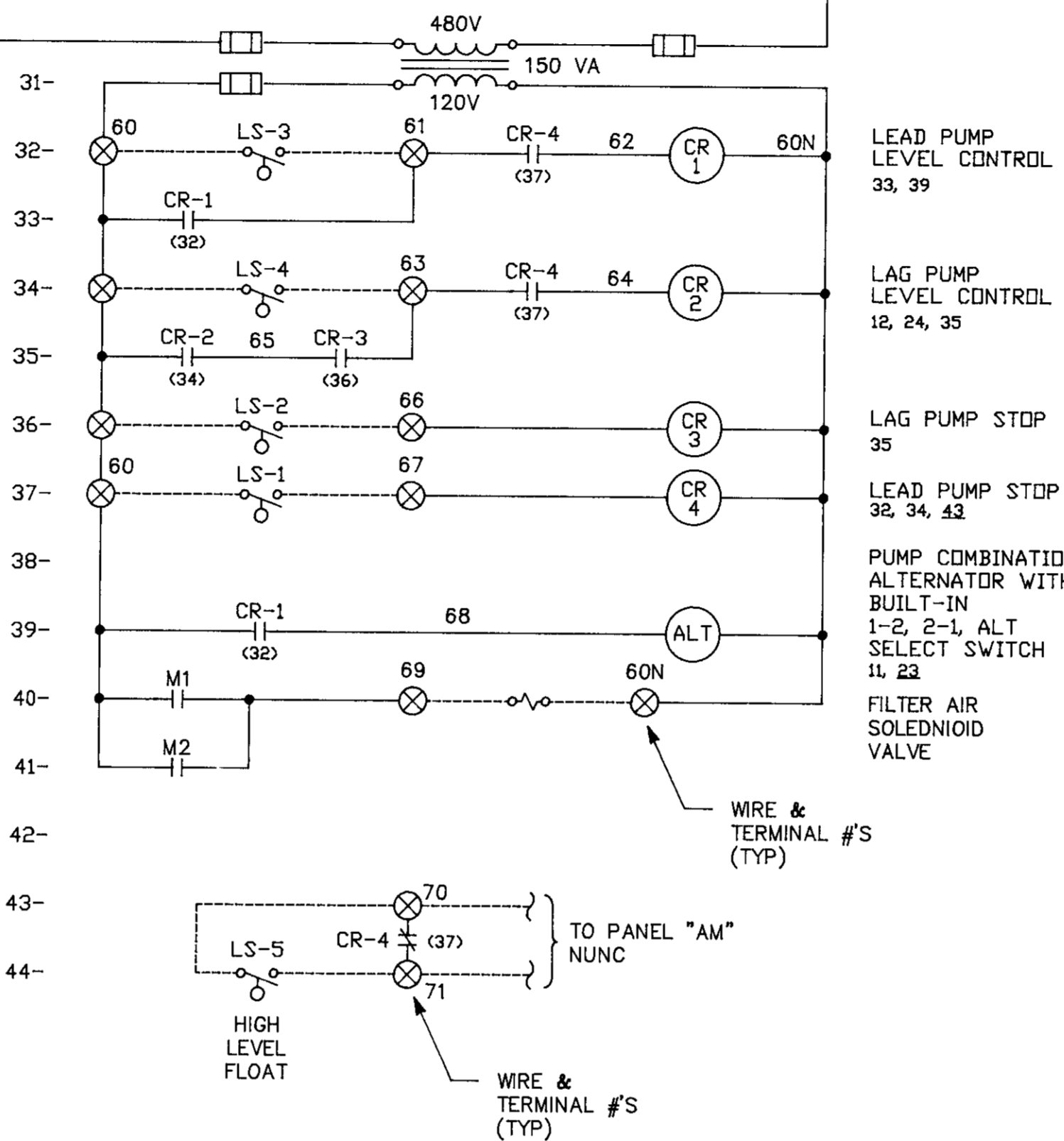


REVISION	DESCRIPTION	BY	APP	DATE

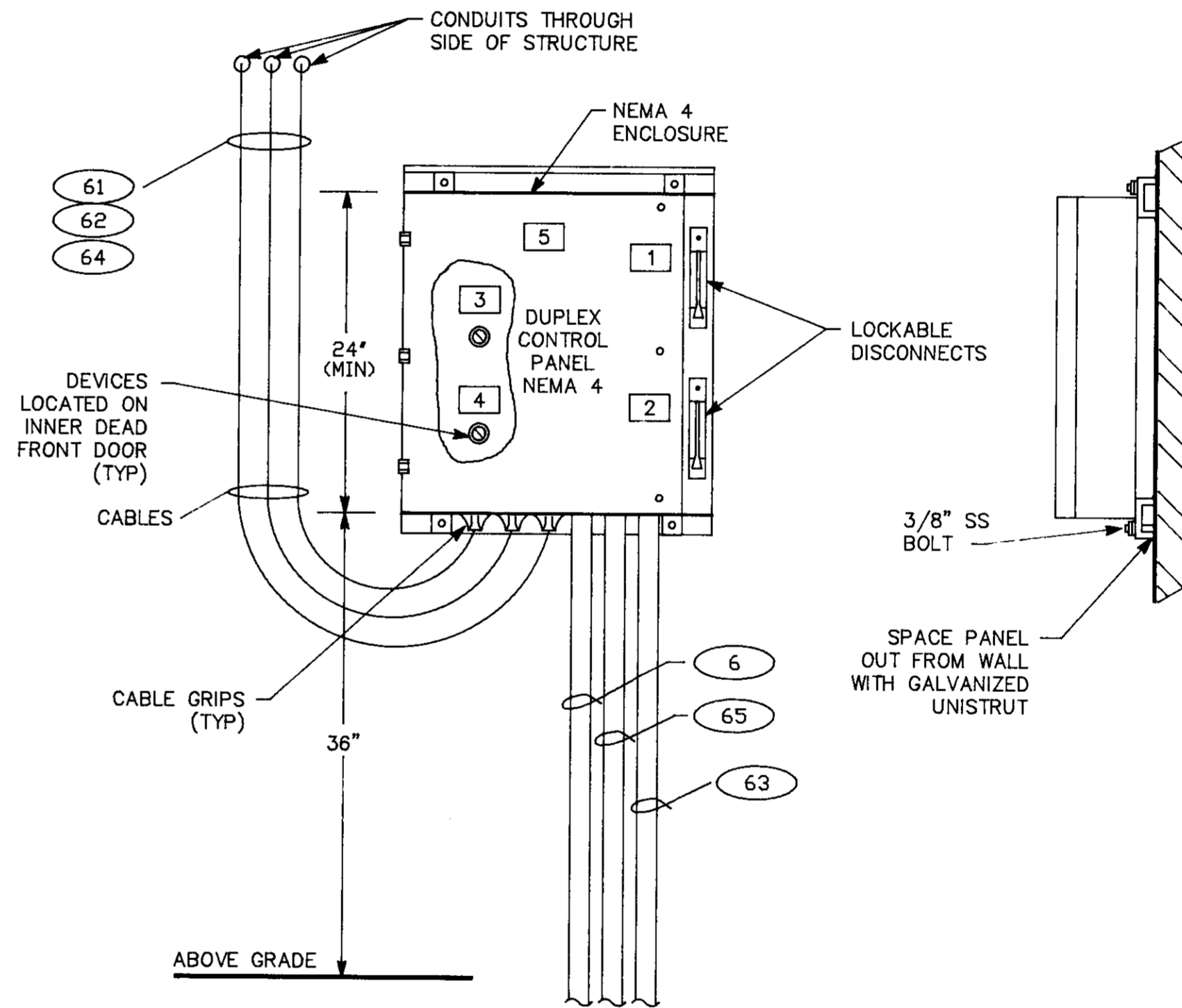


CONTROL PANEL "FFP" ELEMENTARY
(PROVIDE WIRES #S ON ALL PANEL WIRES)



NAMEPLATE SCHEDULE

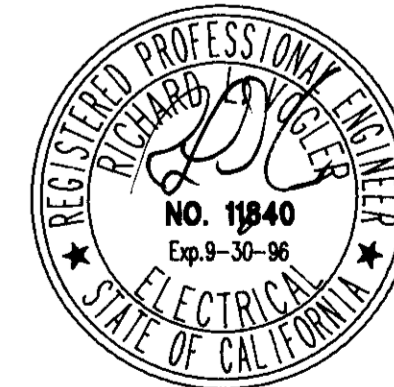
NUMBER	ENGRAVING	SIZE LTRS
1	FILTER FEED PUMP #1 DISCONNECT	1/8"
2	FILTER FEED PUMP #2 DISCONNECT	1/8"
3	FILTER FEED PUMP #1 HOA	1/8"
4	FILTER FEED PUMP #2 HOA	1/8"
5	CONTROL PANEL "FFP"	1/2"



CONTROL PANEL "FFP" ELEVATION

FILTER PUMP CONTROL		
DESCRIPTION	ON	OFF
LEAD PUMP	14.0	2.0
LAG PUMP	14.5	13.0
HIGH LEVEL FLOAT	14.5	---

ALL LEVELS ARE LISTED IN FEET FROM BOTTOM OF WETWELL



SU - 2858

FILE: 9404CE14

SCALE NONE	DATE AUGUST 1994	DESIGNED RLV	SUBMITTED
FILE	CHECKED RLV	DRAWN ZK	RECOMMENDED
			APPROVED

DEWANTE AND STOWELL
CONSULTING ENGINEERS
SACRAMENTO, CALIFORNIA

FLAG CITY
SAN JOAQUIN CO., CALIFORNIA
WASTEWATER TREATMENT FACILITIES

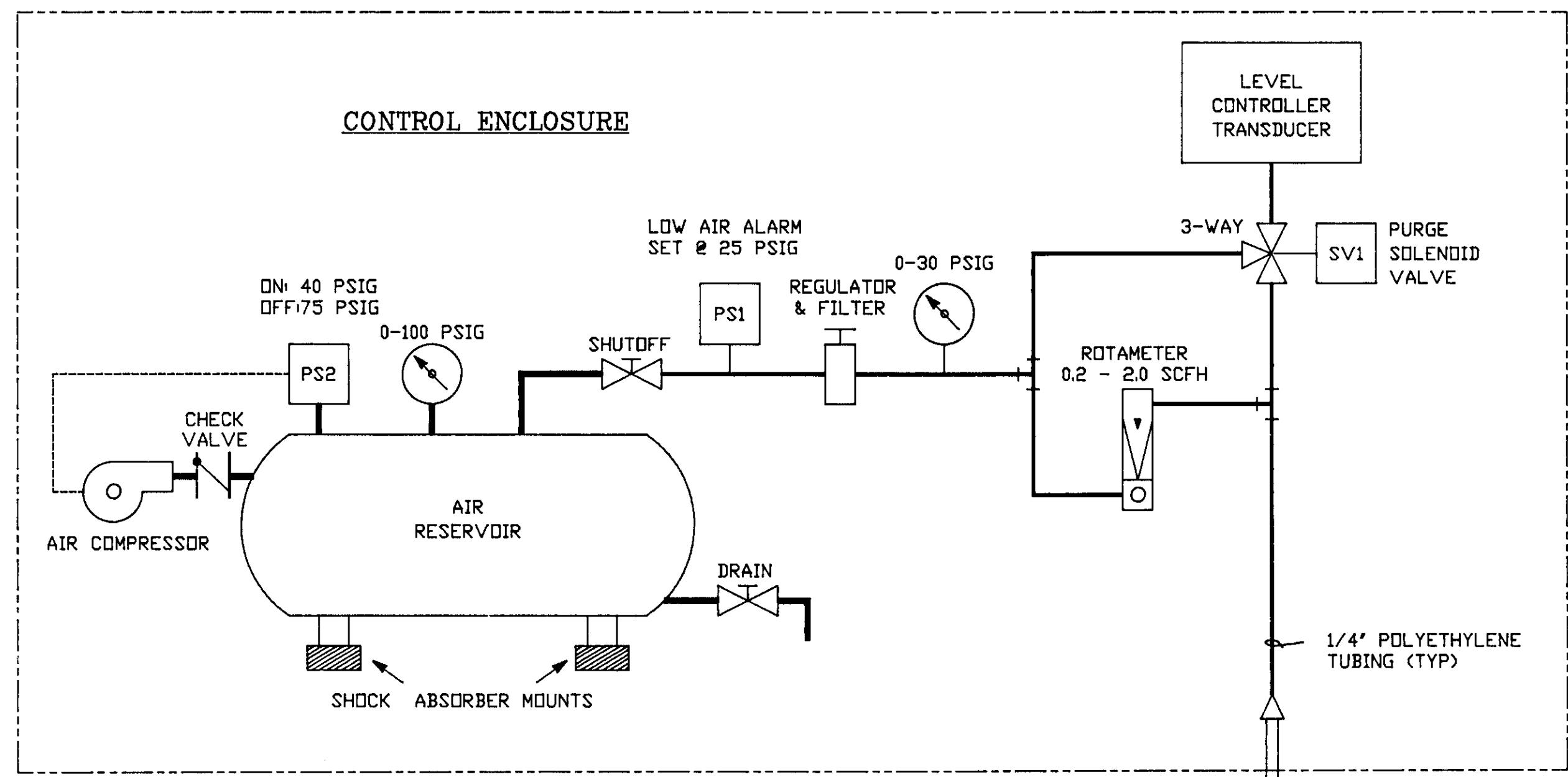
FILTER FEED PUMPS
CONTROL PANEL "FFP"

3123 BROADWAY
SACRAMENTO, CA. 95817
916-457-8144

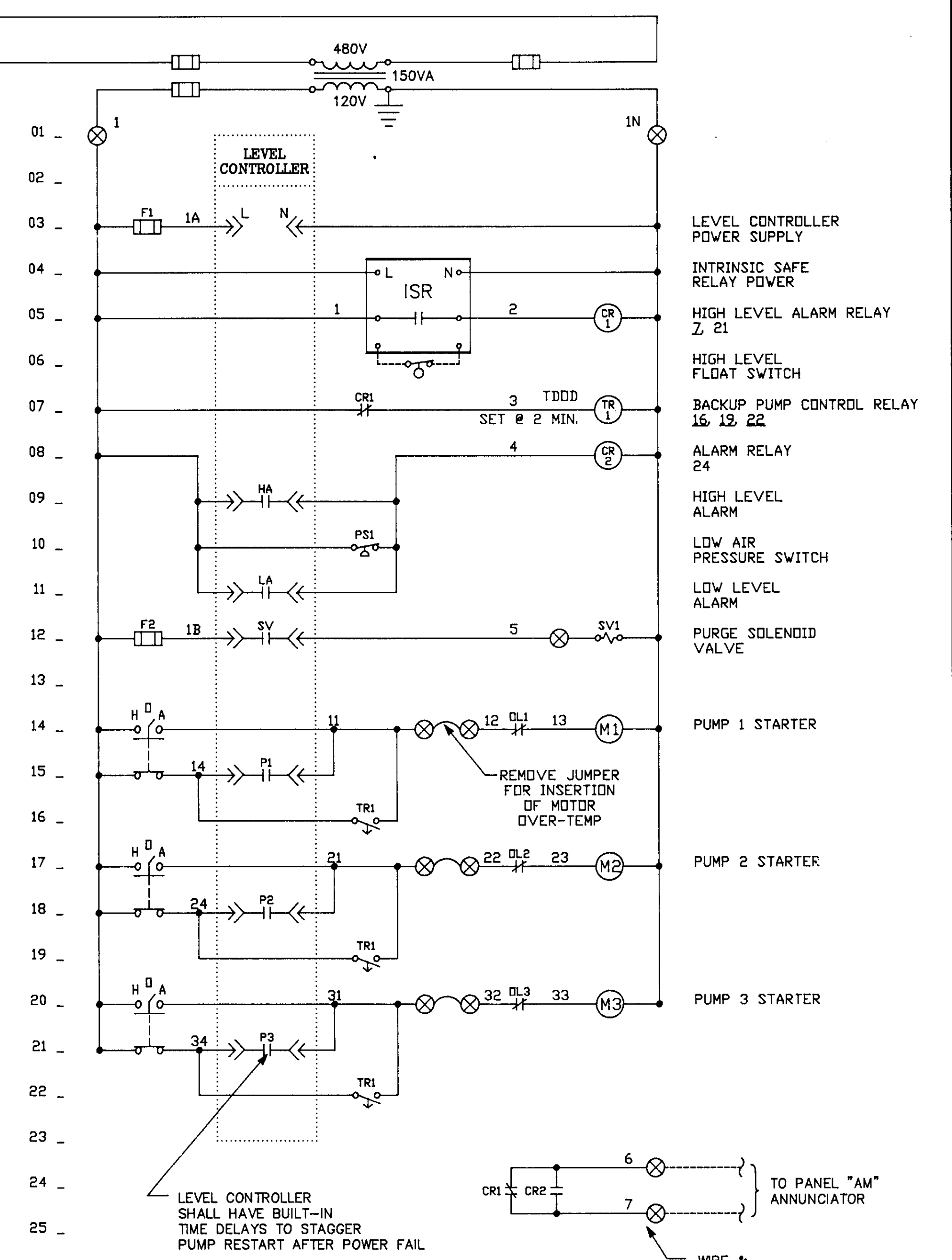
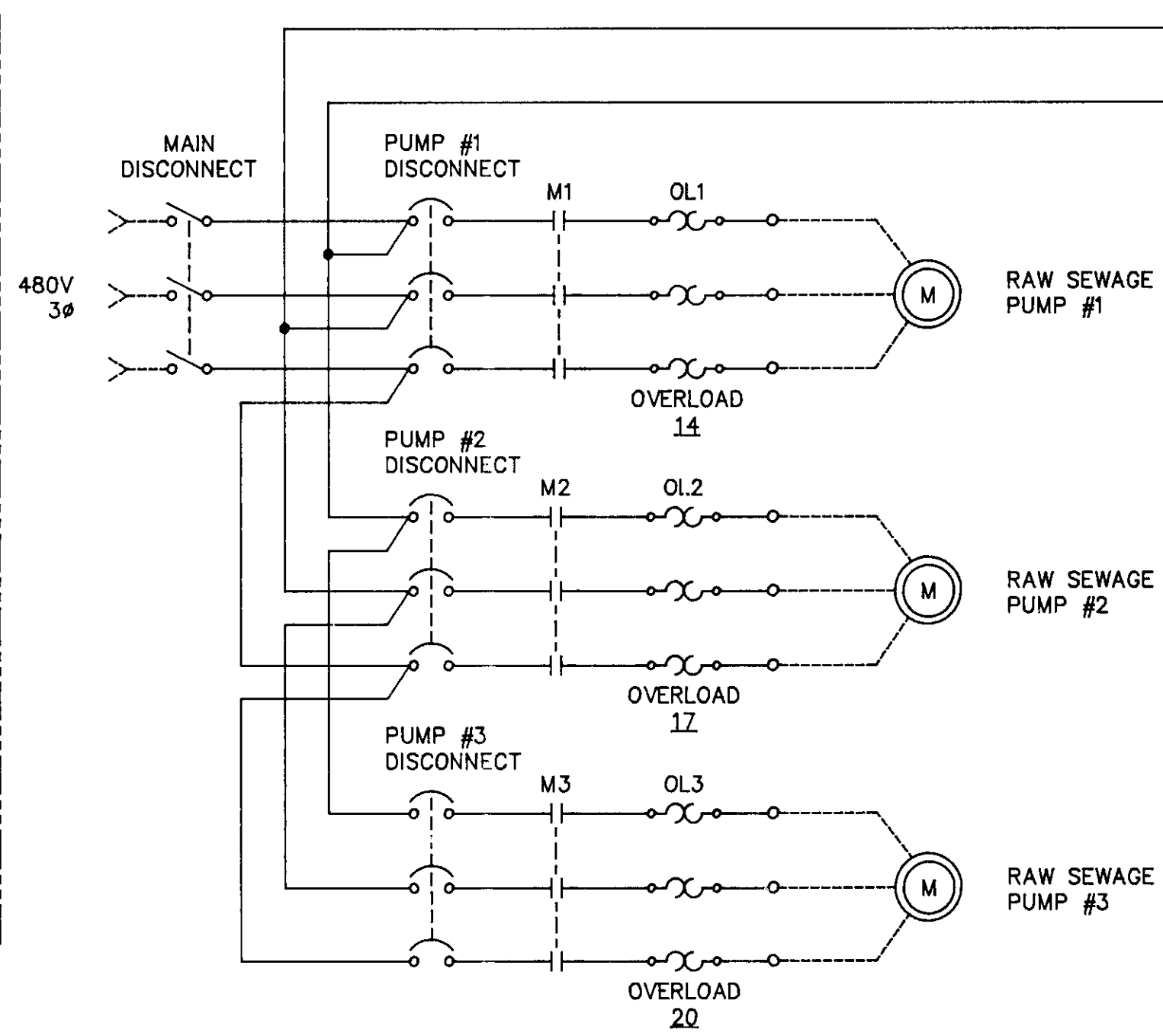
TEEM

DRAWING NUMBER: **E-14**
SHEET NUMBER: **44 OF 44**

REVISION	DESCRIPTION	BY	APP	DATE



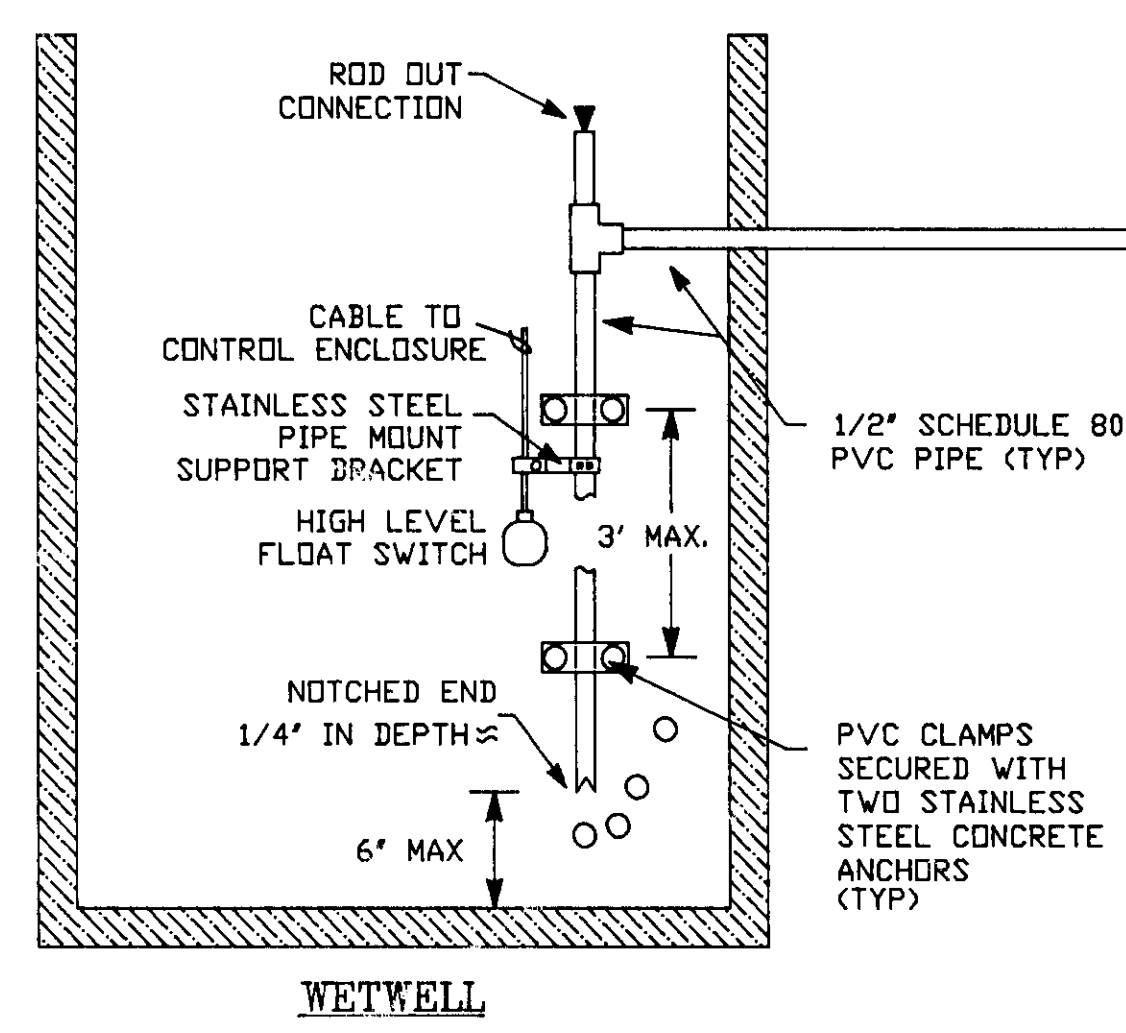
PNEUMATIC DIAGRAM



CONTROL PANEL "RSP" ELEMENTARY

RAW SEWAGE PUMP CONTROL		
DESCRIPTION	ON	OFF
LEAD PUMP	2.5	1.0
LAG PUMP	3.8	1.8
FOLLOW PUMP	4.3	3.3
HIGH LEVEL FLOAT	6.0	---

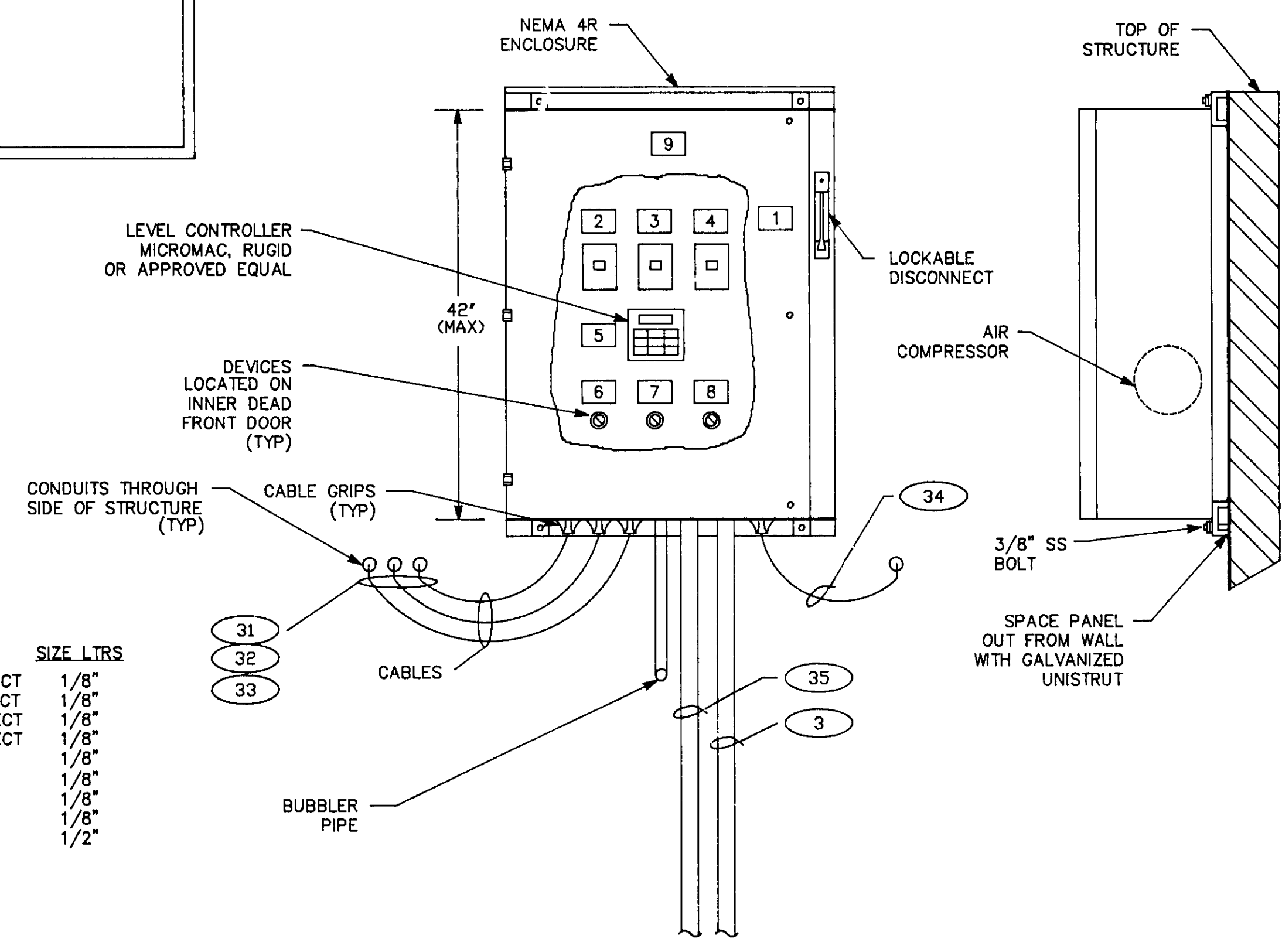
ALL LEVELS ARE LISTED IN FEET FROM BOTTOM OF WETWELL



WETWELL

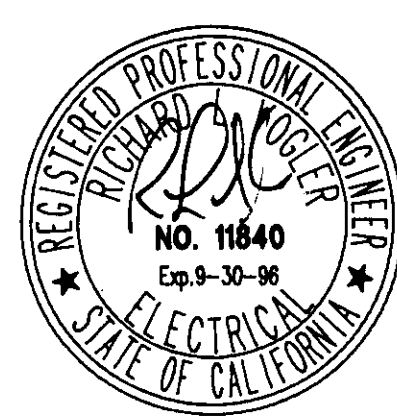
NAMEPLATE SCHEDULE

NUMBER	ENGRAVING	SIZE	LTRS
1	CONTROL PANEL "RSP" DISCONNECT	1/8"	
2	RAW SEWAGE PUMP #1 DISCONNECT	1/8"	
3	RAW SEWAGE PUMP #2 DISCONNECT	1/8"	
4	RAW SEWAGE PUMP #3 DISCONNECT	1/8"	
5	LEVEL CONTROLLER	1/8"	
6	RAW SEWAGE PUMP #1 HOA	1/8"	
7	RAW SEWAGE PUMP #2 HOA	1/8"	
8	RAW SEWAGE PUMP #3 HOA	1/8"	
9	CONTROL PANEL "RSP"	1/2"	



CONTROL PANEL "RSP" ELEVATION

(PROVIDE WIRE #S ON ALL PANEL WIRES)



FILE: 9404CE13

SCALE NONE	DATE AUGUST 1994	DESIGNED RLV	SUBMITTED
	FILE	DRAWN ZKV	RECOMMENDED
		CHECKED RLV	APPROVED

DEWANTE AND STOWELL
CONSULTING ENGINEERS
SACRAMENTO, CALIFORNIA

FLAG CITY
SAN JOAQUIN CO., CALIFORNIA
WASTEWATER TREATMENT FACILITIES

RAW SEWAGE PUMPS
CONTROL PANEL "RSP"

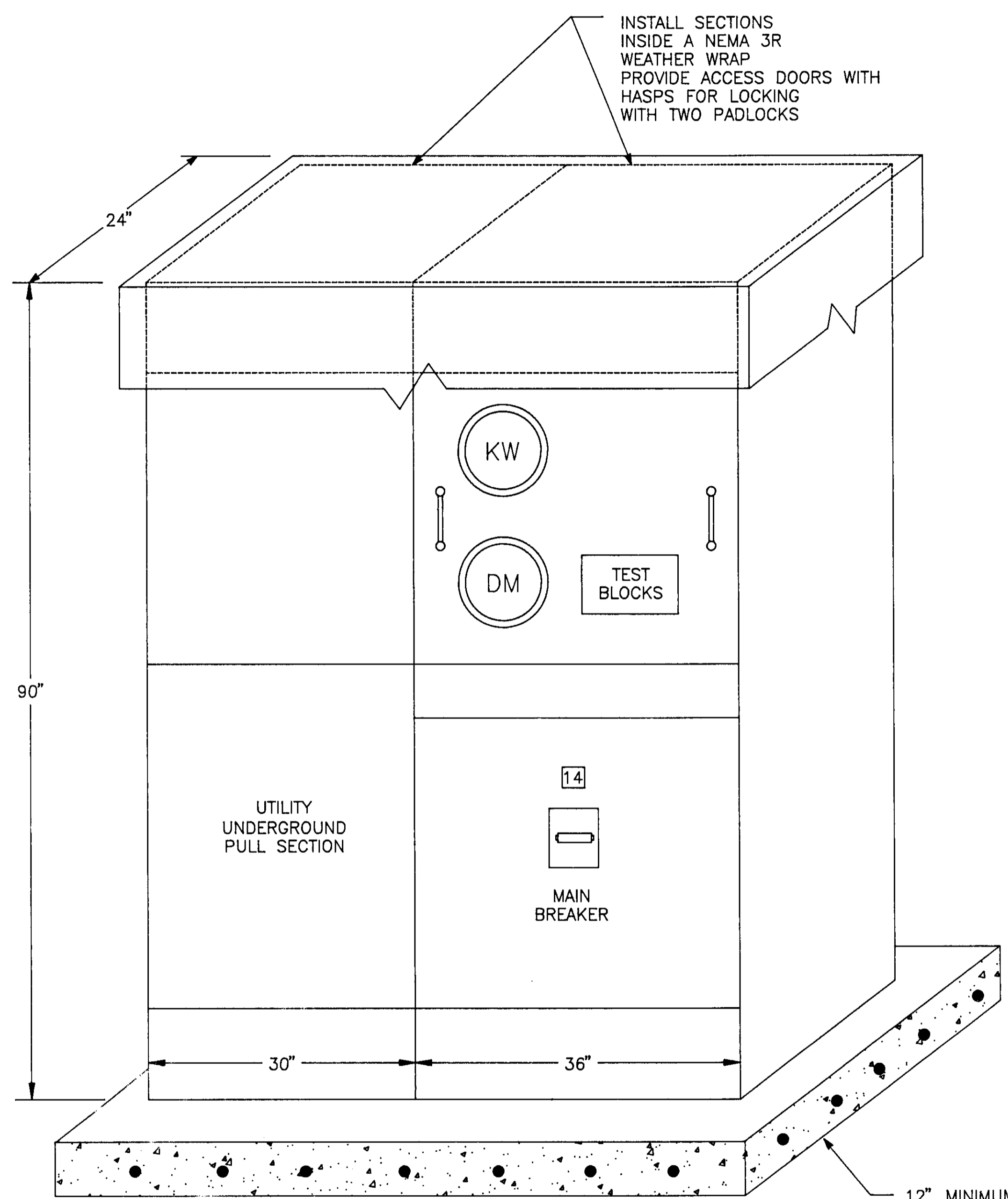
RECORD DRAWING

3123 BROADWAY
SACRAMENTO, CA 95817
916-457-8144

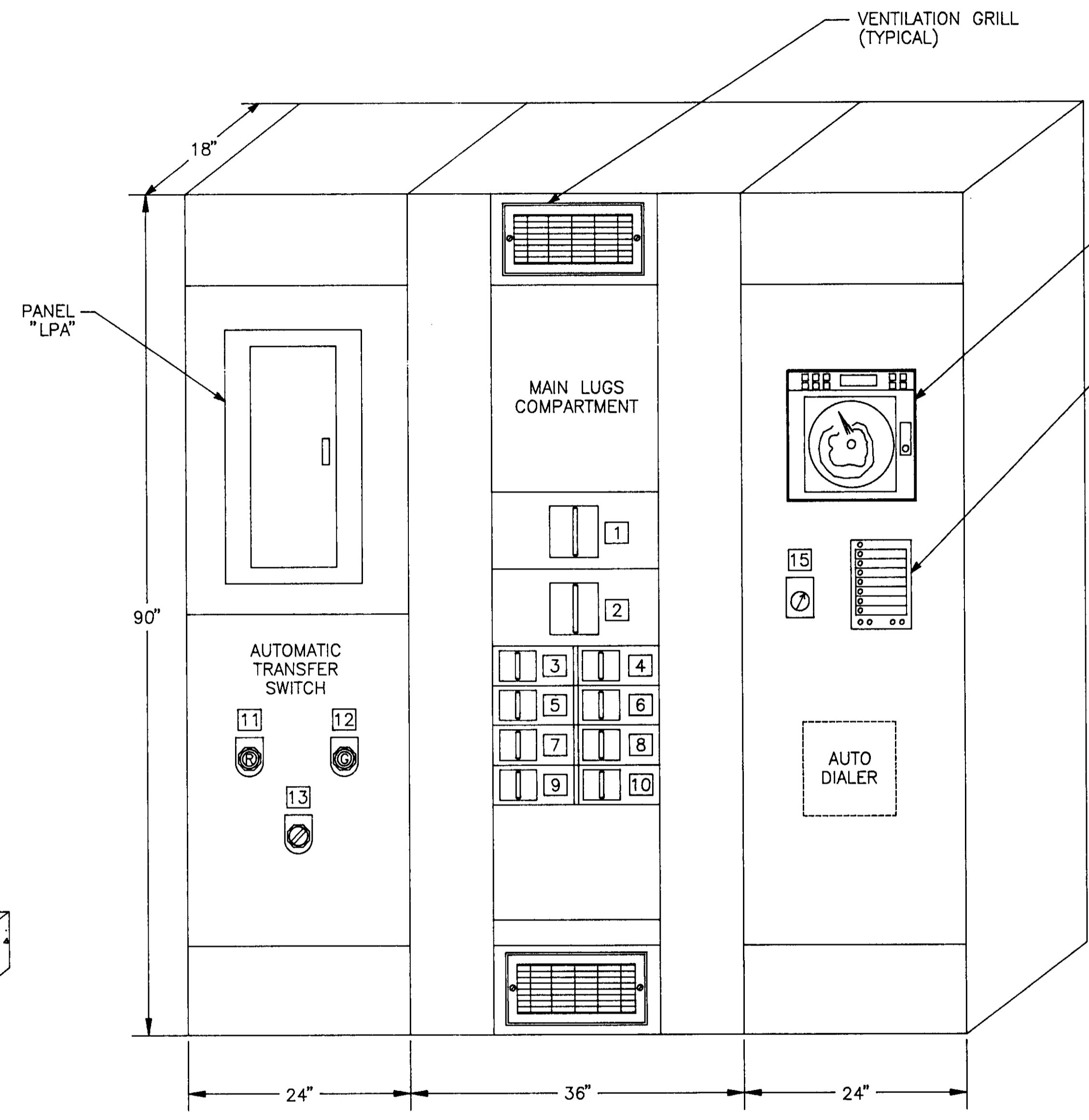
DRAWING NUMBER E-13	SHEET NUMBER 43 OF 44
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SU-2859

REVISION	DESCRIPTION	BY	APP	DATE
△	RECORD DWG. CHANGES INCORP.	DCL	RMD	6-95



MAIN SWITCHBOARD "MS" ELEVATION



CONTROL/ELECTRICAL ROOM PANEL ELEVATIONS

- KEY ENGRAVED NAMEPLATE**
- 1 BLOWER 1 & 2 CP "AB"
 - 2 BLANK (FUTURE BLOWER #3)
 - 3 RAW WATER PUMP STATION CP "RSP"
 - 4 TRANSFORMER "A" DISCONNECT
 - 5 EMERGENCY STORAGE RETURN PUMP CP "ESRP"
 - 6 FILTER FEED PUMP PANEL CP "FFP"
 - 7 TRANSFORMER "B" DISCONNECT
 - 8 TRANSFORMER "C" DISCONNECT
 - 9 TRANSFORMER "D" DISCONNECT
 - 10 ~~BLANK (SPARE) FINAL EFFLUENT PUMPS~~ △
 - 11 STANDBY GENERATOR POWER
 - 12 NORMAL POWER
 - 13 NORMAL/STANDBY TEST
 - 14 MAIN BREAKER
 - 15 INTRUSION BYPASS TIMER

- KEY ANNUNCIATOR LEGEND**
- 1 RAW WATER PUMP STATION ALARM
 - 2 FILTER PUMP STATION ALARM
 - 3 INTRUSION
 - 4 STORAGE BASIN LEVEL HIGH
 - 5 GENERATOR ALARM
 - 6 UTILITY POWER FAIL
 - 7 (FUTURE)
 - 8 (FUTURE)
 - 9 (FUTURE)
 - 10 (FUTURE)



FILE: 9404CE12

RECORD DRAWING

3123 BROADWAY
SACRAMENTO, CA. 95817
TEEM 916-457-8144

SCALE NONE	DATE AUGUST 1994	DESIGNED <u>RLV</u>	SUBMITTED _____
	FILE	DRAWN <u>ZKV</u>	RECOMMENDED _____
		CHECKED <u>RLV</u>	APPROVED _____

DEWANTE AND STOWELL
CONSULTING ENGINEERS
SACRAMENTO, CALIFORNIA

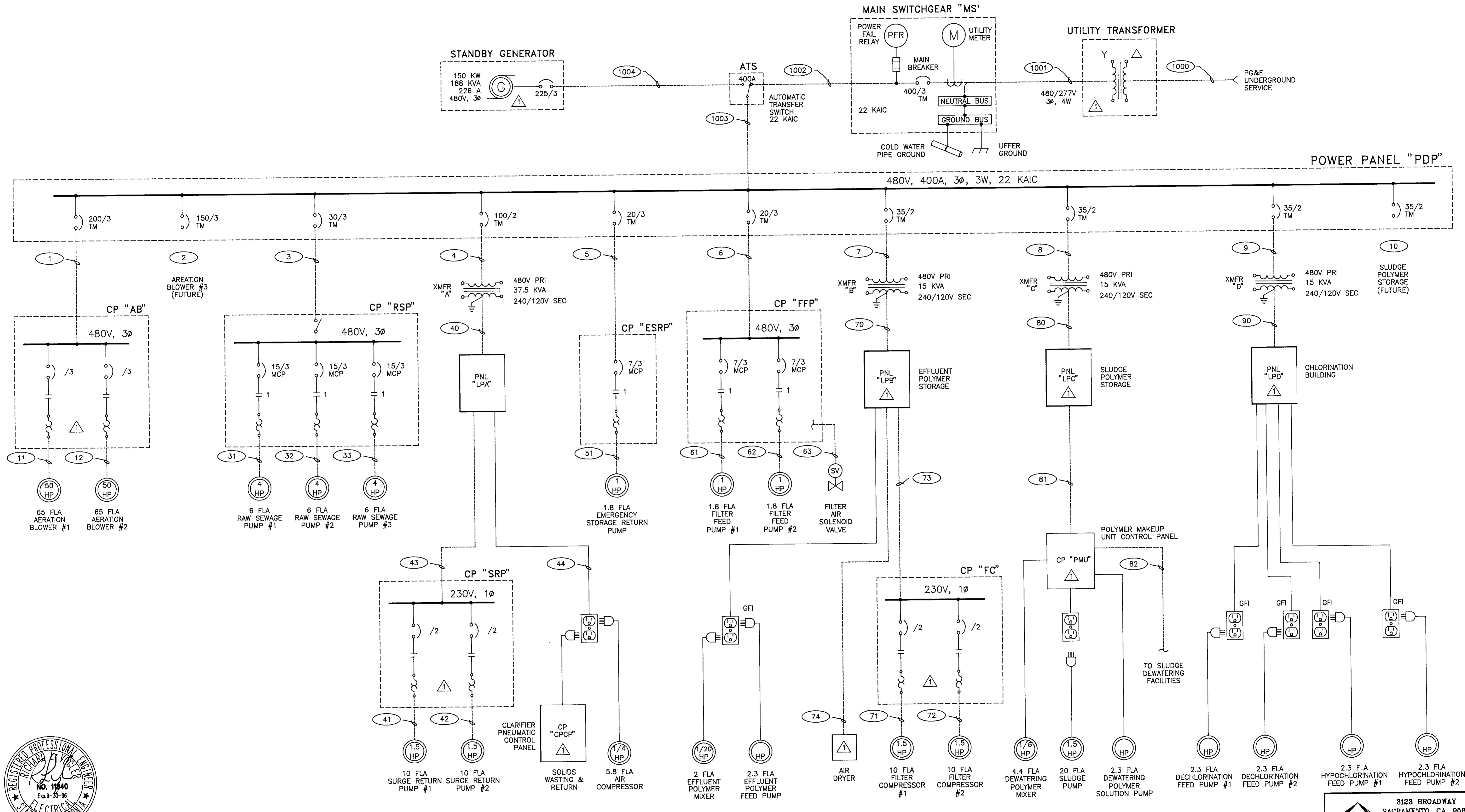
FLAG CITY
SAN JOAQUIN CO., CALIFORNIA
WASTEWATER TREATMENT FACILITIES

**MAIN SWITCHBOARD "MS"
& PANEL ELEVATIONS**

DRAWING NUMBER E-12	SHEET NUMBER 42 OF 44
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SU-2860

REVISION	DESCRIPTION	BY	APP	DATE



NOTE: INDICATES PACKAGES SUPPLIED BY OTHERS



FILE: 9404C-09

SCALE	DATE	DESIGNED	RLV	SUBMITTED
NONE	AUGUST 1994	DRAWN	ZKV	RECOMMENDED
	FILE	CHECKED	RLV	APPROVED

DEWANTE AND STOWELL
CONSULTING ENGINEERS
SACRAMENTO, CALIFORNIA

FLAG CITY
SAN JOAQUIN CO., CALIFORNIA
WASTEWATER TREATMENT FACILITIES

SINGLE LINE DIAGRAM

3123 BROADWAY
SACRAMENTO, CA. 95817
916-457-8144

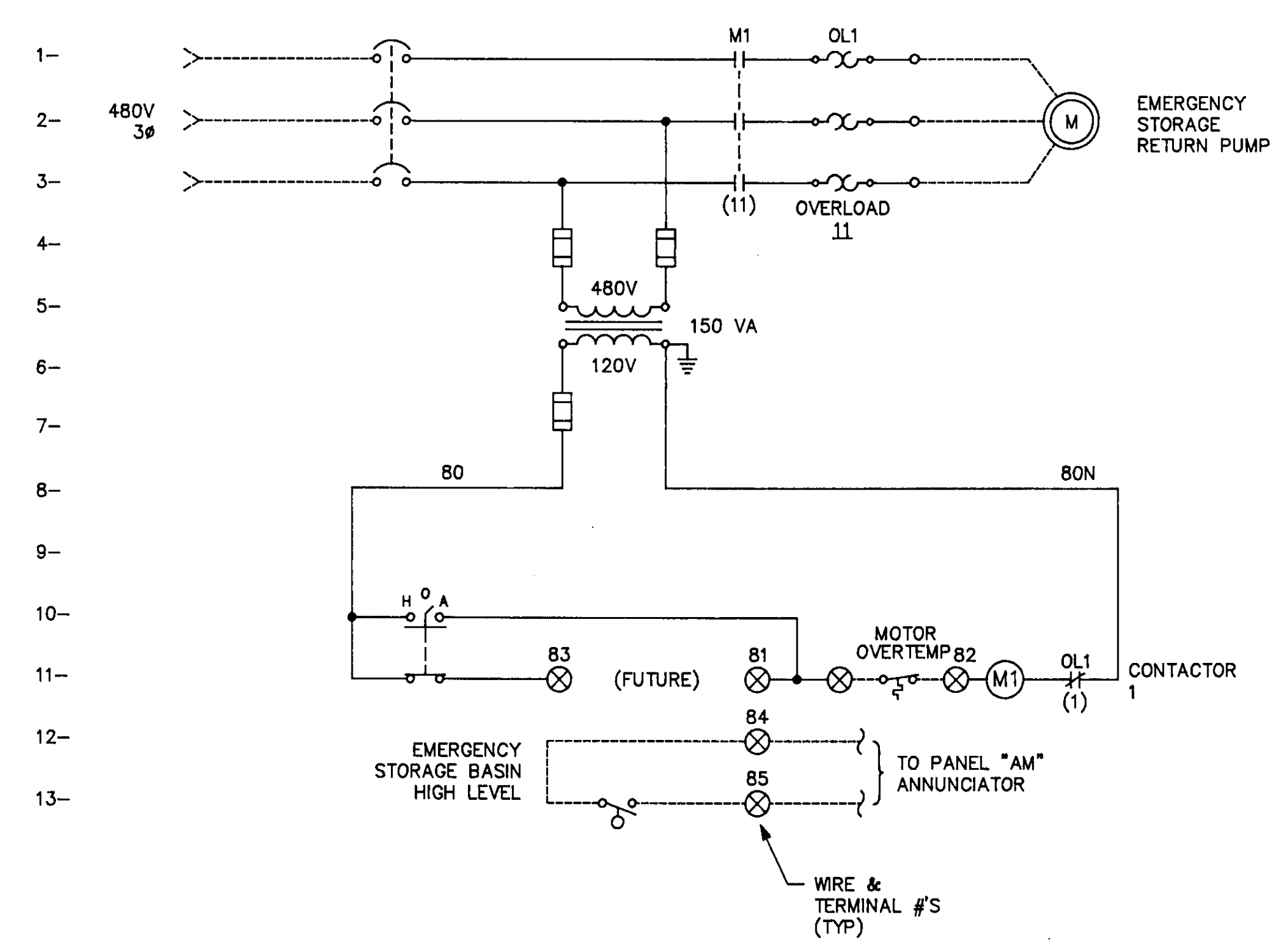
TEEM

DRAWING NUMBER	SHEET NUMBER
E-11	41 OF 44

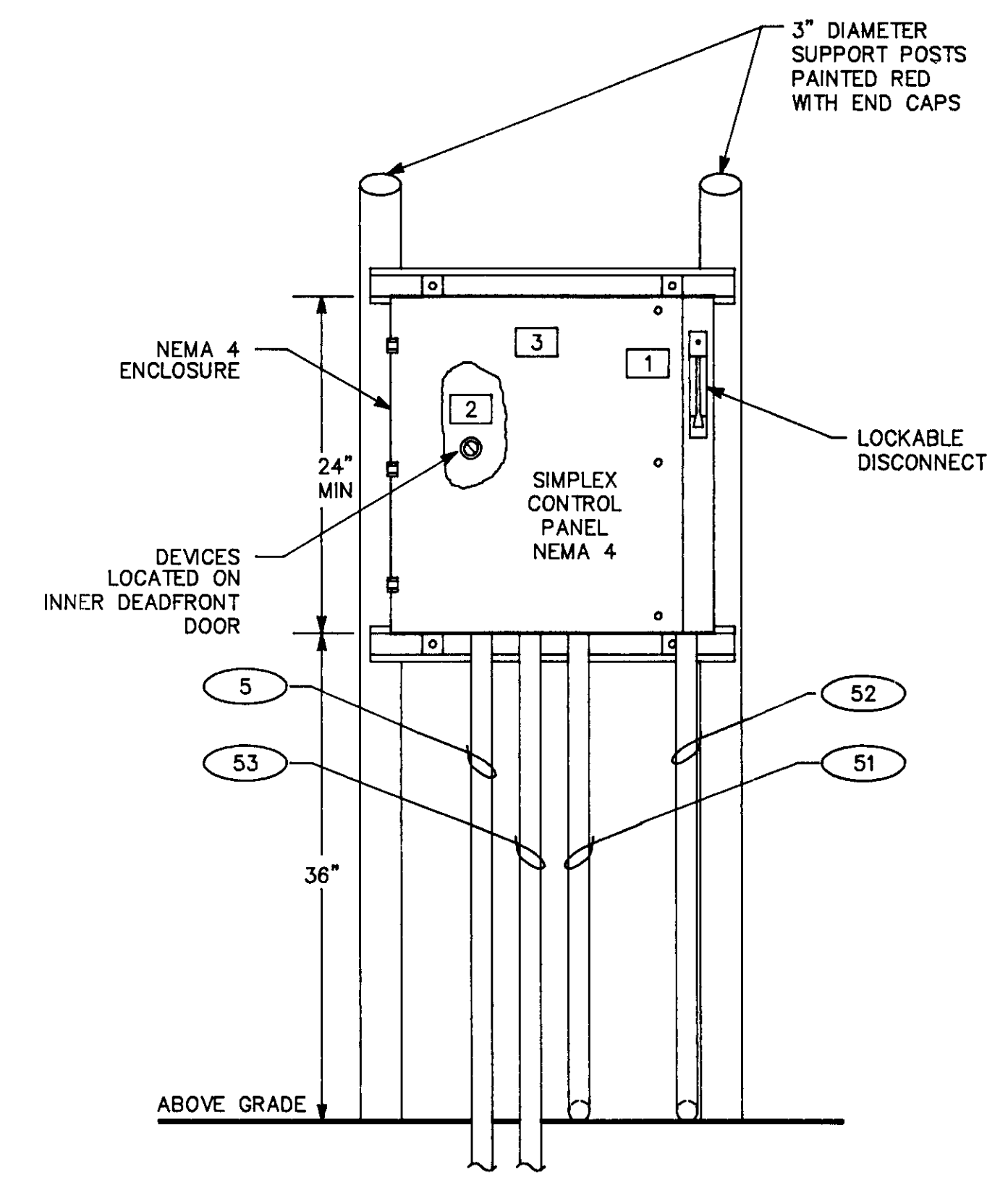
REVISION	DESCRIPTION	BY	APP	DATE

NAMEPLATE SCHEDULE

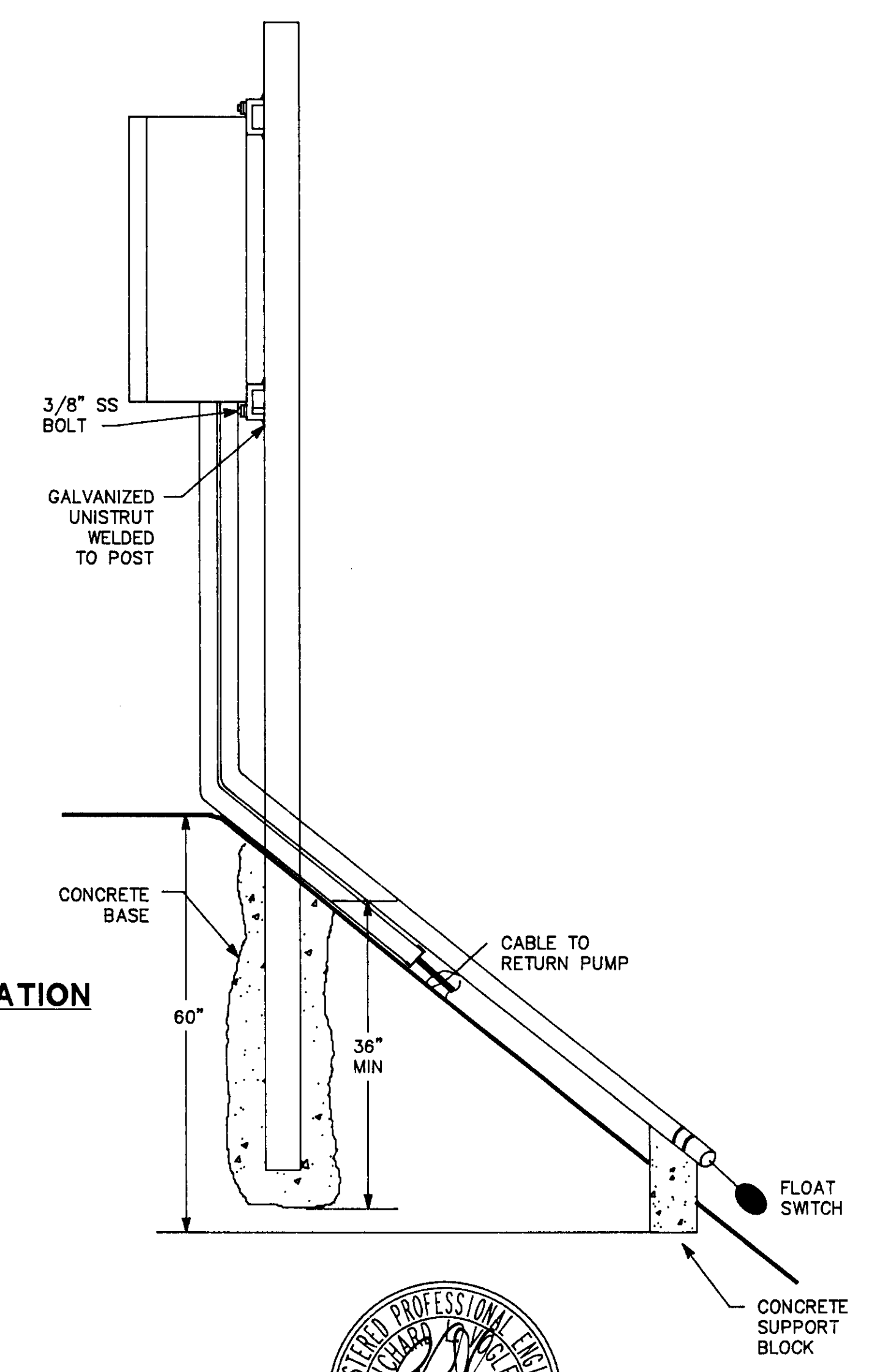
NUMBER	ENGRAVING	SIZE LTRS
1	EMERGENCY STORAGE RETURN PUMP DISCONNECT	1/8"
2	EMERGENCY STORAGE RETURN PUMP HOA	1/8"
3	CONTROL PANEL "ESRP"	1/2"



CONTROL PANEL "ESRP" ELEMENTARY
(PROVIDE WIRE #S ON ALL PANEL WIRES)



CONTROL PANEL "ESRP" ELEVATION



RECORD DRAWING

3123 BROADWAY
SACRAMENTO, CA. 95817
916-457-8144
TEEM

SCALE NONE	DATE AUGUST 1994	DESIGNED RLV	SUBMITTED
	FILE	DRAWN ZK	RECOMMENDED
		CHECKED RLV	APPROVED

DEWANTE AND STOWELL
CONSULTING ENGINEERS
SACRAMENTO, CALIFORNIA

FLAG CITY
SAN JOAQUIN CO., CALIFORNIA
WASTEWATER TREATMENT FACILITIES

**EMERGENCY STORAGE RETURN PUMP
CONTROL PANEL "ESRP"**

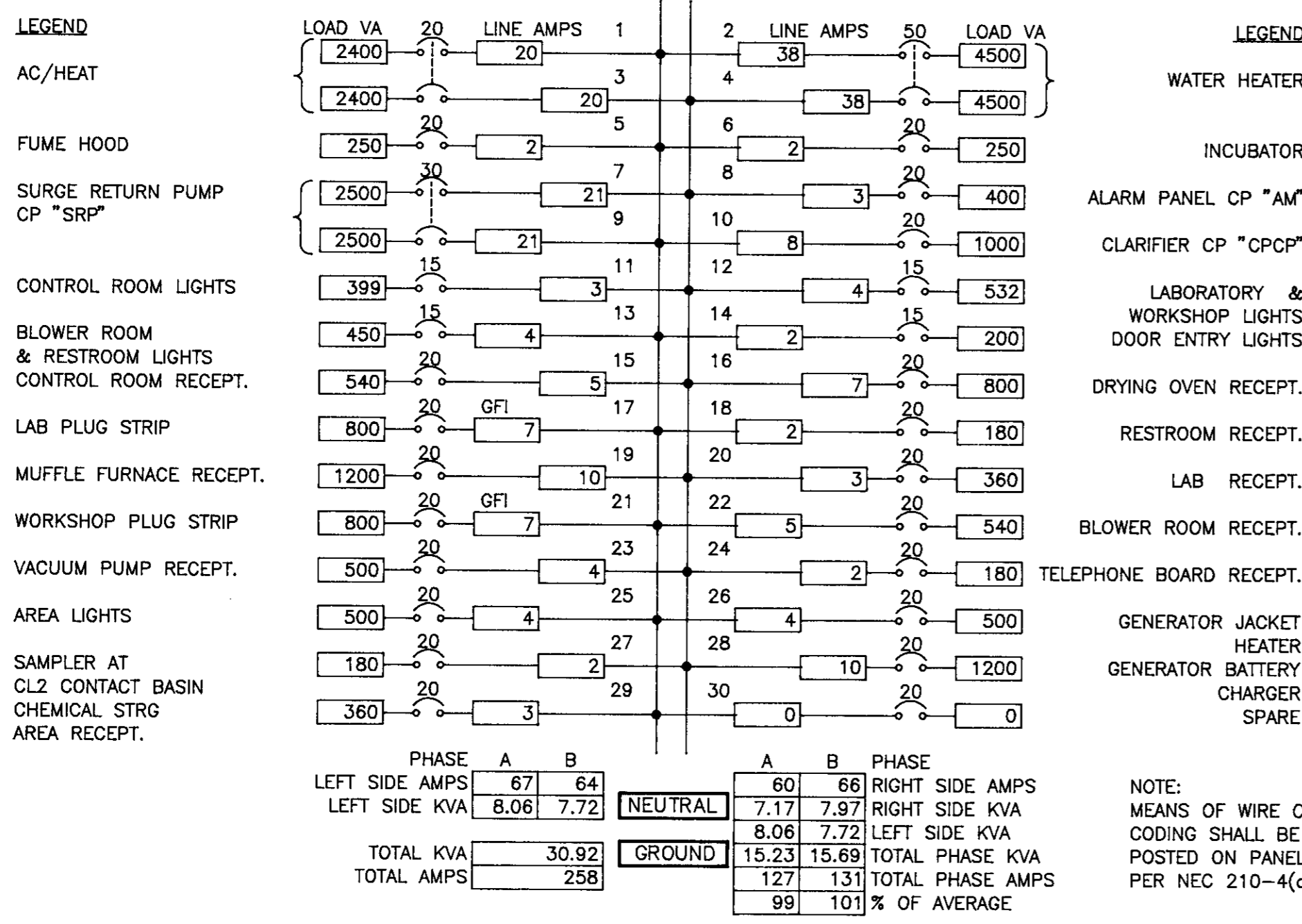
DRAWING NUMBER E-10	SHEET NUMBER 40 OF 44
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SU-2862

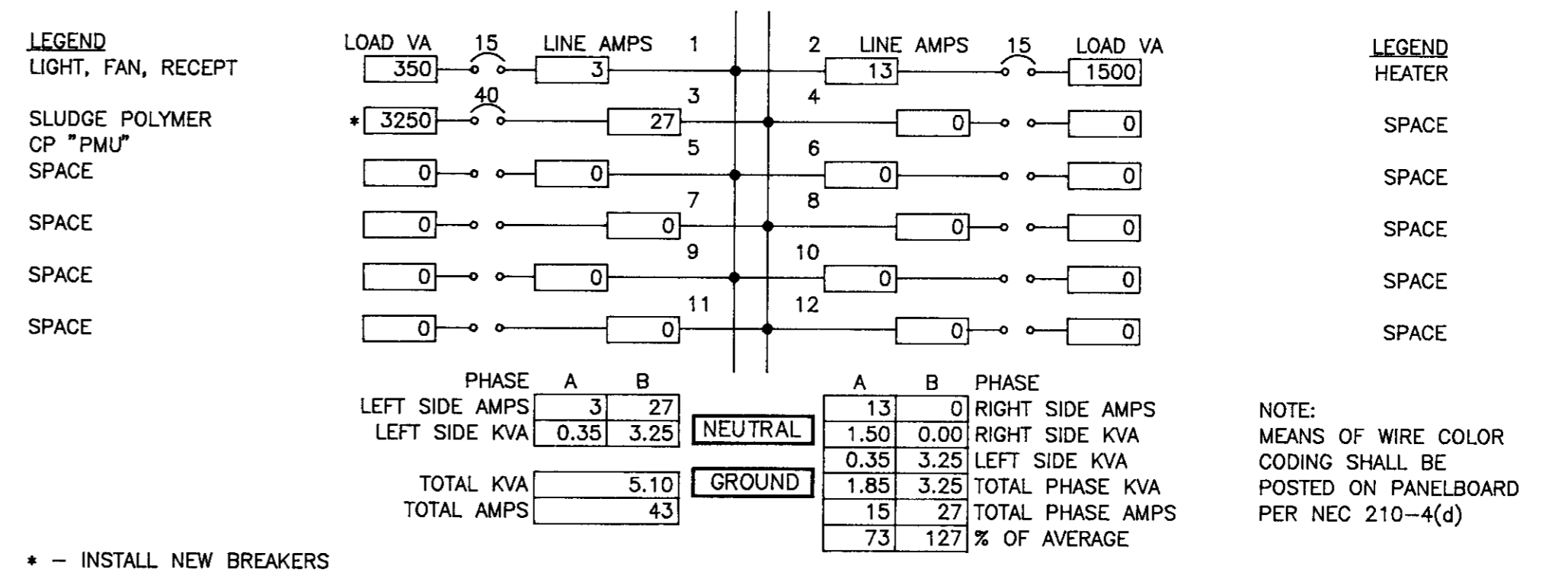
FILE: 9404CE10

REVISION	DESCRIPTION	BY	APP	DATE

VOLTS	120 /240	PANEL	LPA	LOCATION	CONTROL BUILDING
PHASE	1	BUS AMPS	150A	ENCLOSURE	SURFACE
WIRE	3	MAIN BKR	150A	AIC RATING	10,000

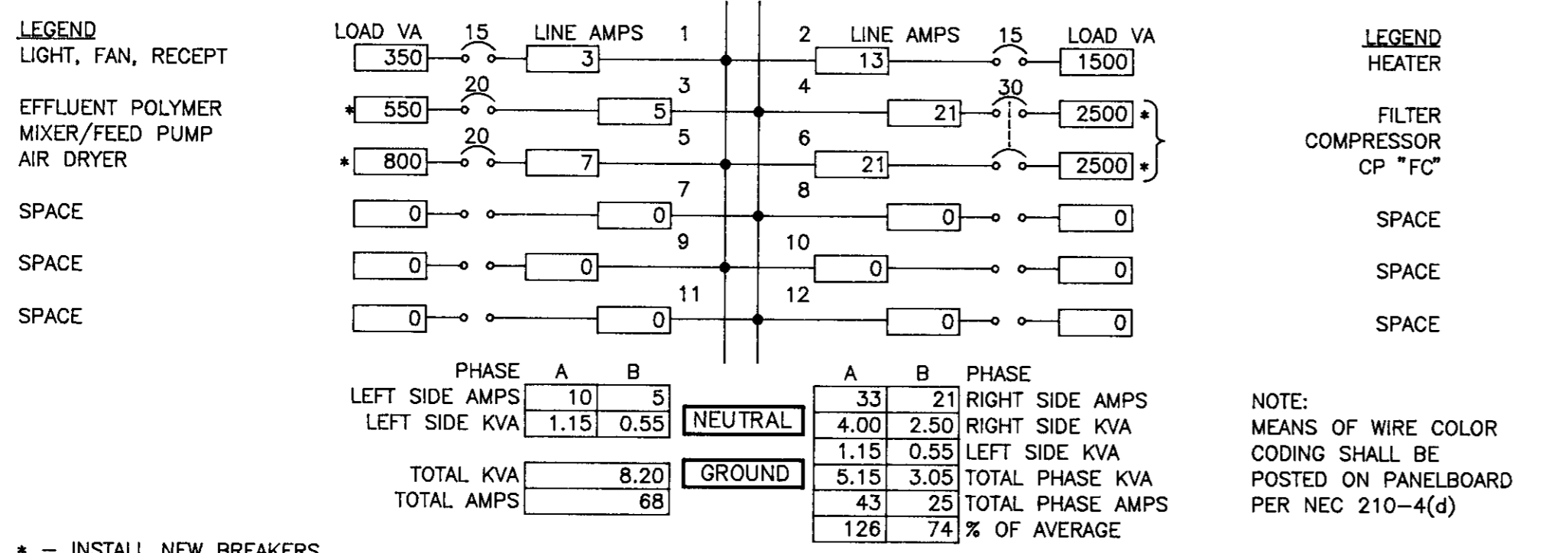


VOLTS	120 /240	PANEL	LPC	LOCATION	SLUDGE POLYMER STORAGE
PHASE	1	BUS AMPS	100A	ENCLOSURE	SURFACE
WIRE	3	MAIN BKR	NONE	AIC RATING	10,000



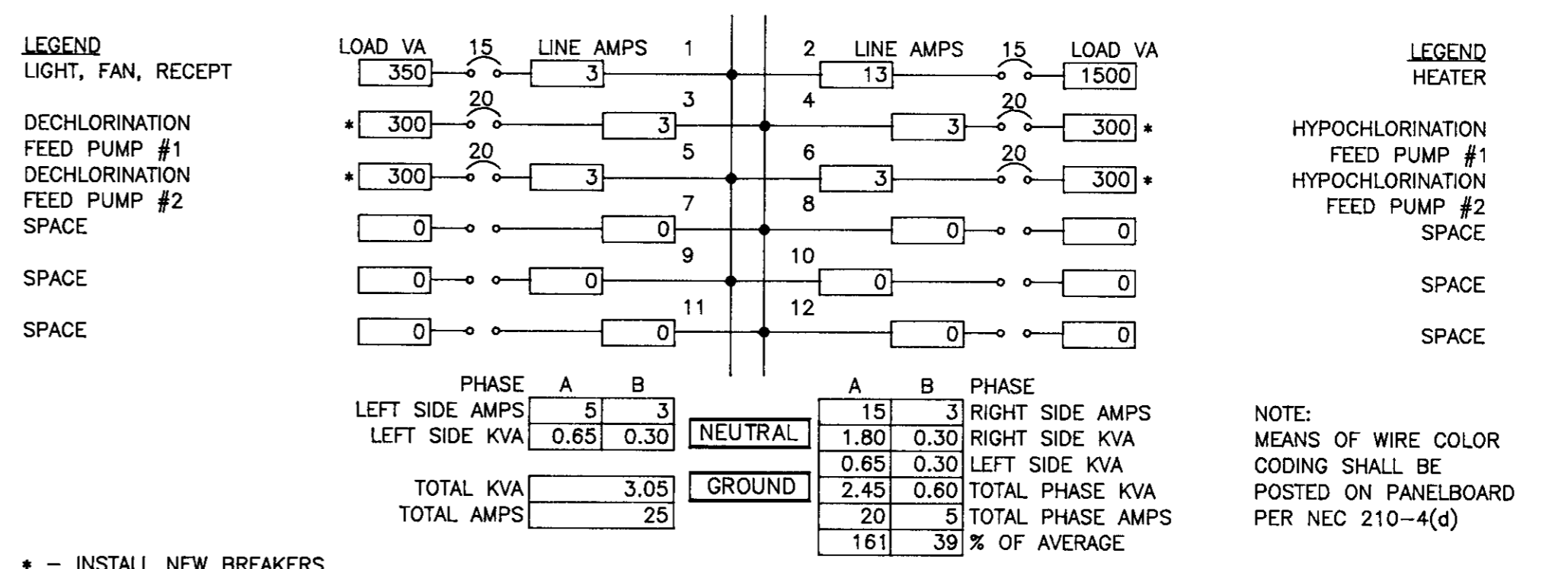
* - INSTALL NEW BREAKERS

VOLTS	120 /240	PANEL	LPB	LOCATION	EFFLUENT POLYMER STORAGE
PHASE	1	BUS AMPS	100A	ENCLOSURE	SURFACE
WIRE	3	MAIN BKR	NONE	AIC RATING	10,000



* - INSTALL NEW BREAKERS

VOLTS	120 /240	PANEL	LPD	LOCATION	CHLORINATION BUILDING
PHASE	1	BUS AMPS	100A	ENCLOSURE	SURFACE
WIRE	3	MAIN BKR	NONE	AIC RATING	10,000



* - INSTALL NEW BREAKERS



3123 BROADWAY
SACRAMENTO, CA 95817
916-457-8144

FILE: 9404CE9A

SCALE	DATE	DESIGNED	SUBMITTED
NONE	AUGUST 1994	RLV	
	FILE	ZKV	RECOMMENDED
		RLV	APPROVED

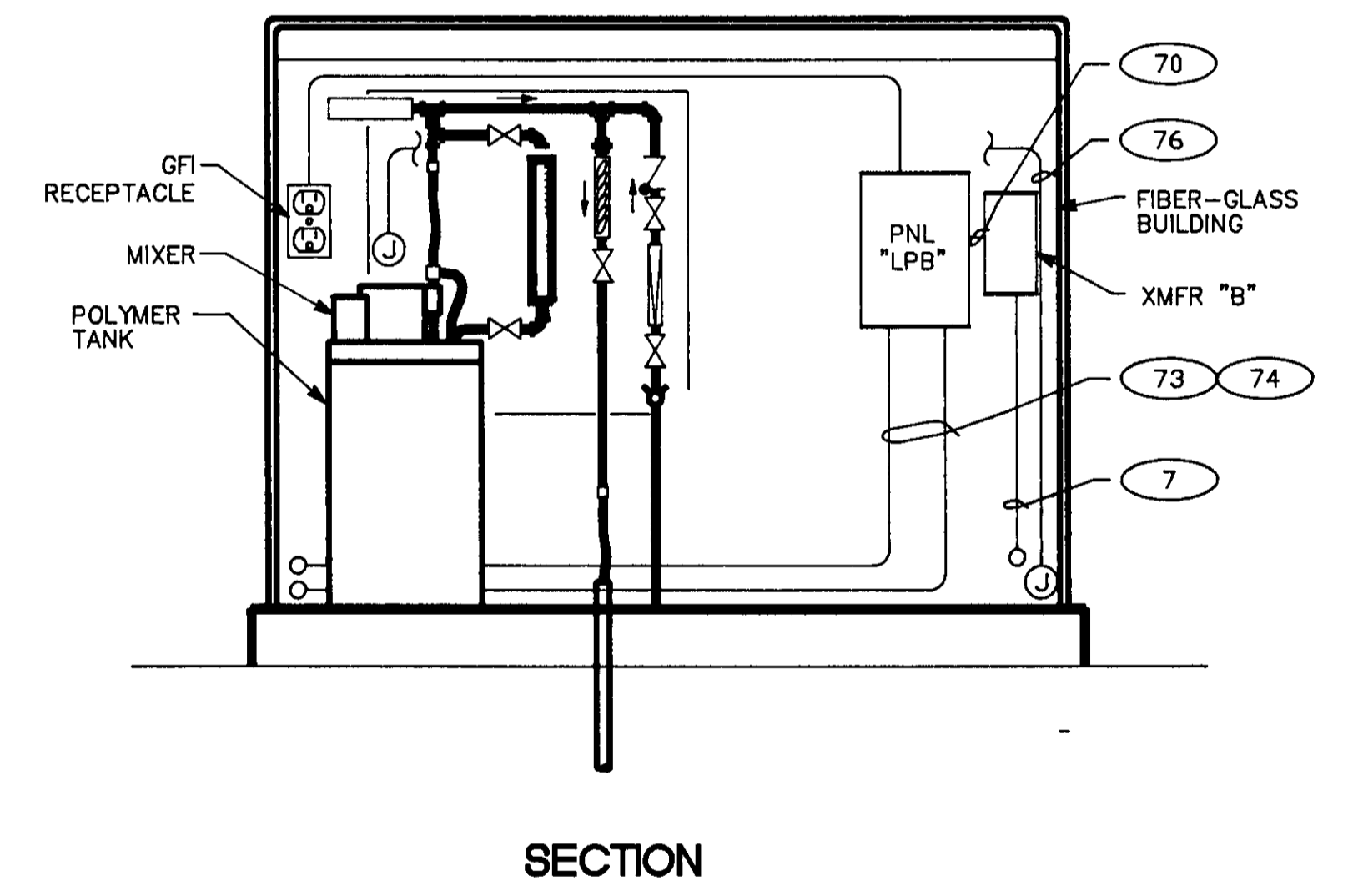
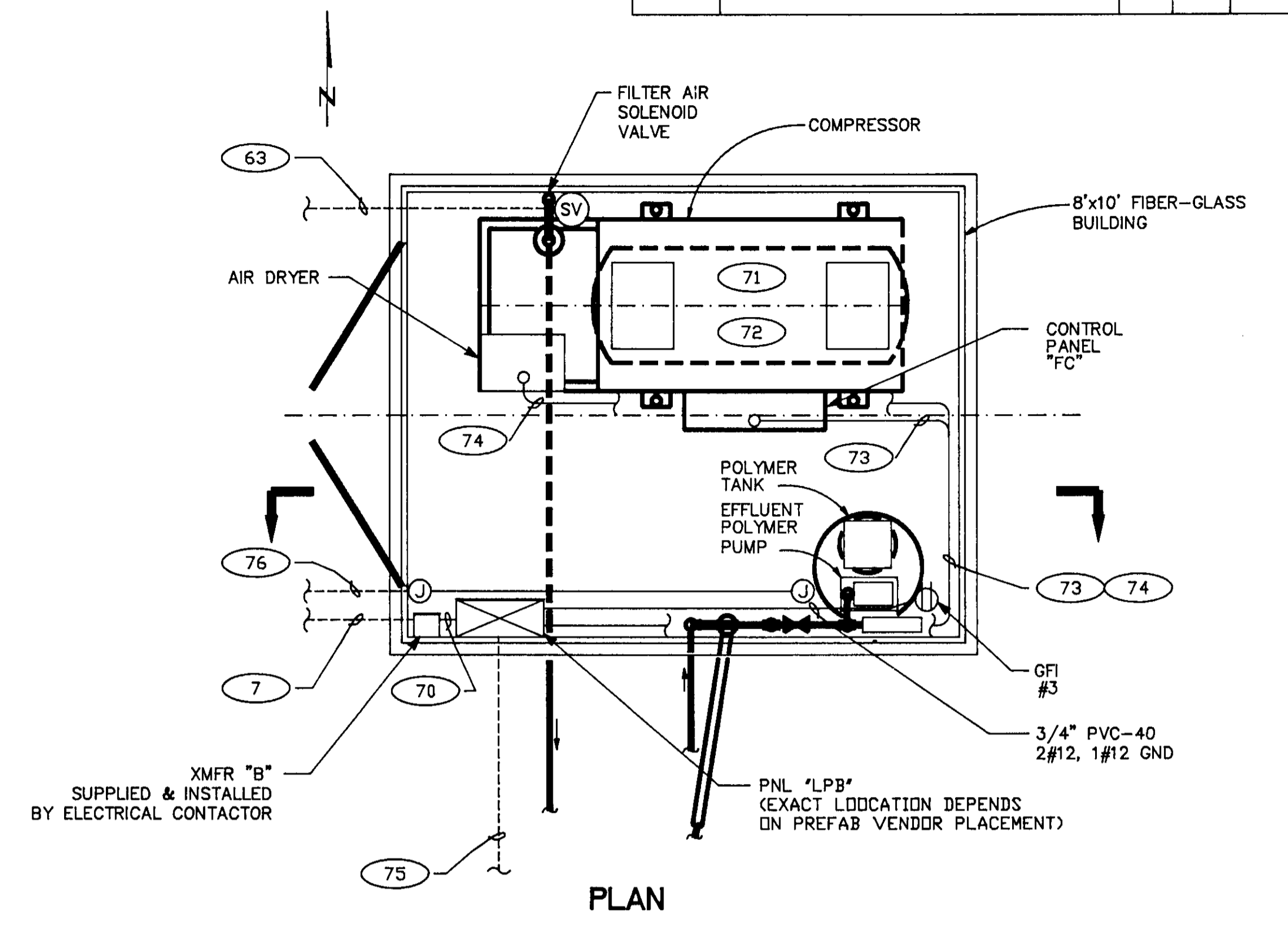
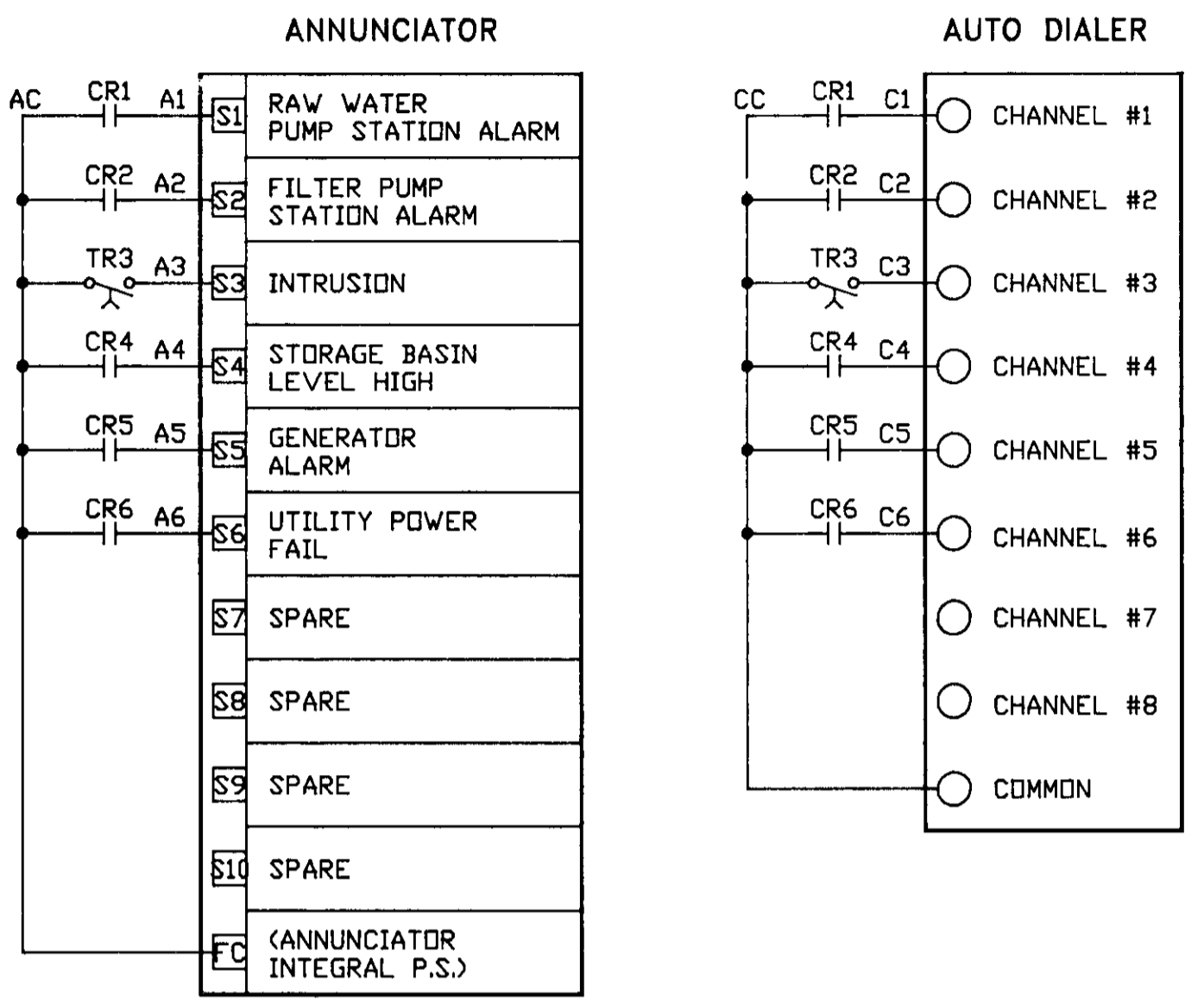
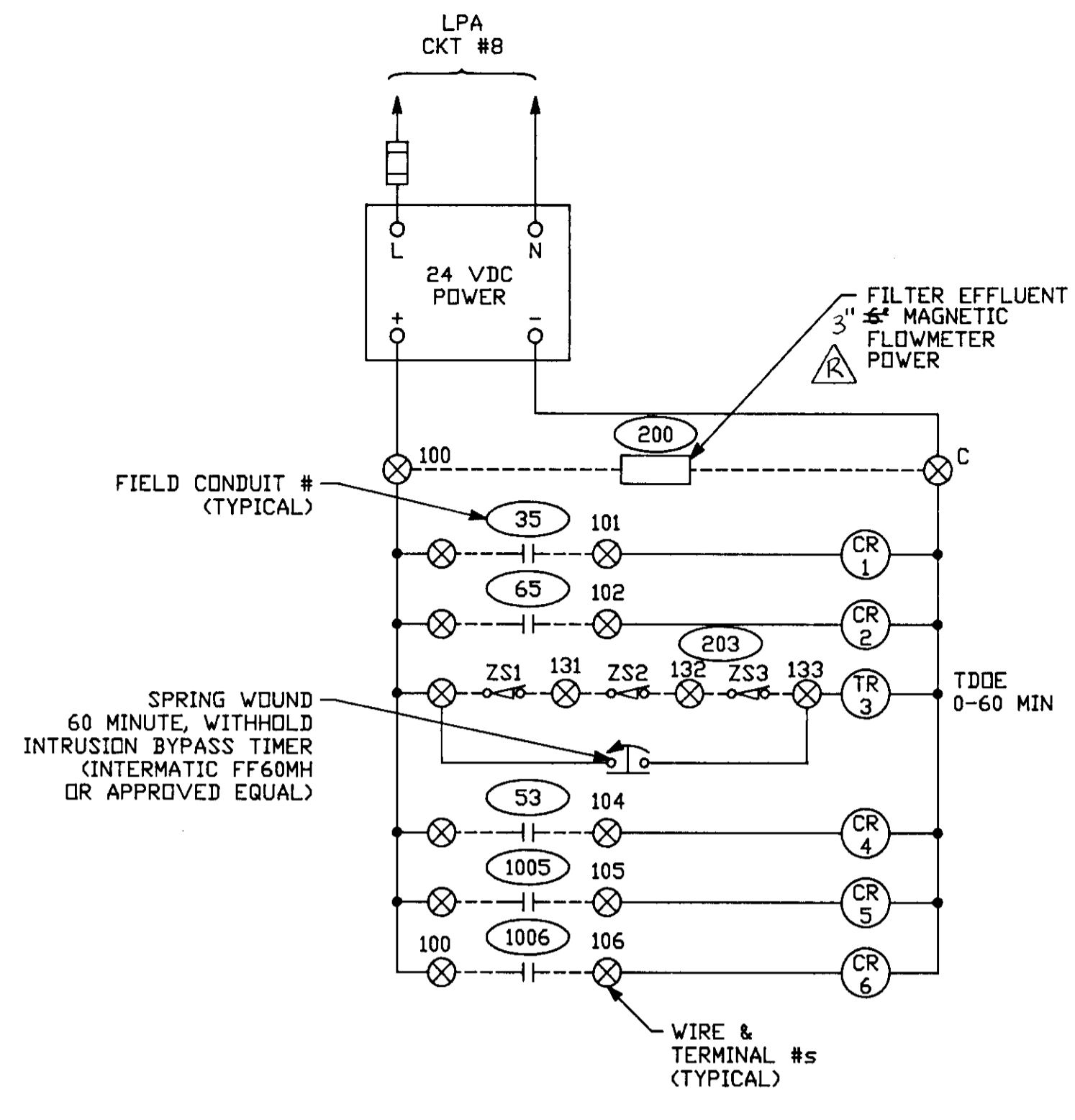
DEWANTE AND STOWELL
CONSULTING ENGINEERS
SACRAMENTO, CALIFORNIA

FLAG CITY
SAN JOAQUIN CO., CALIFORNIA
WASTEWATER TREATMENT FACILITIES

PANELBOARD SCHEDULES

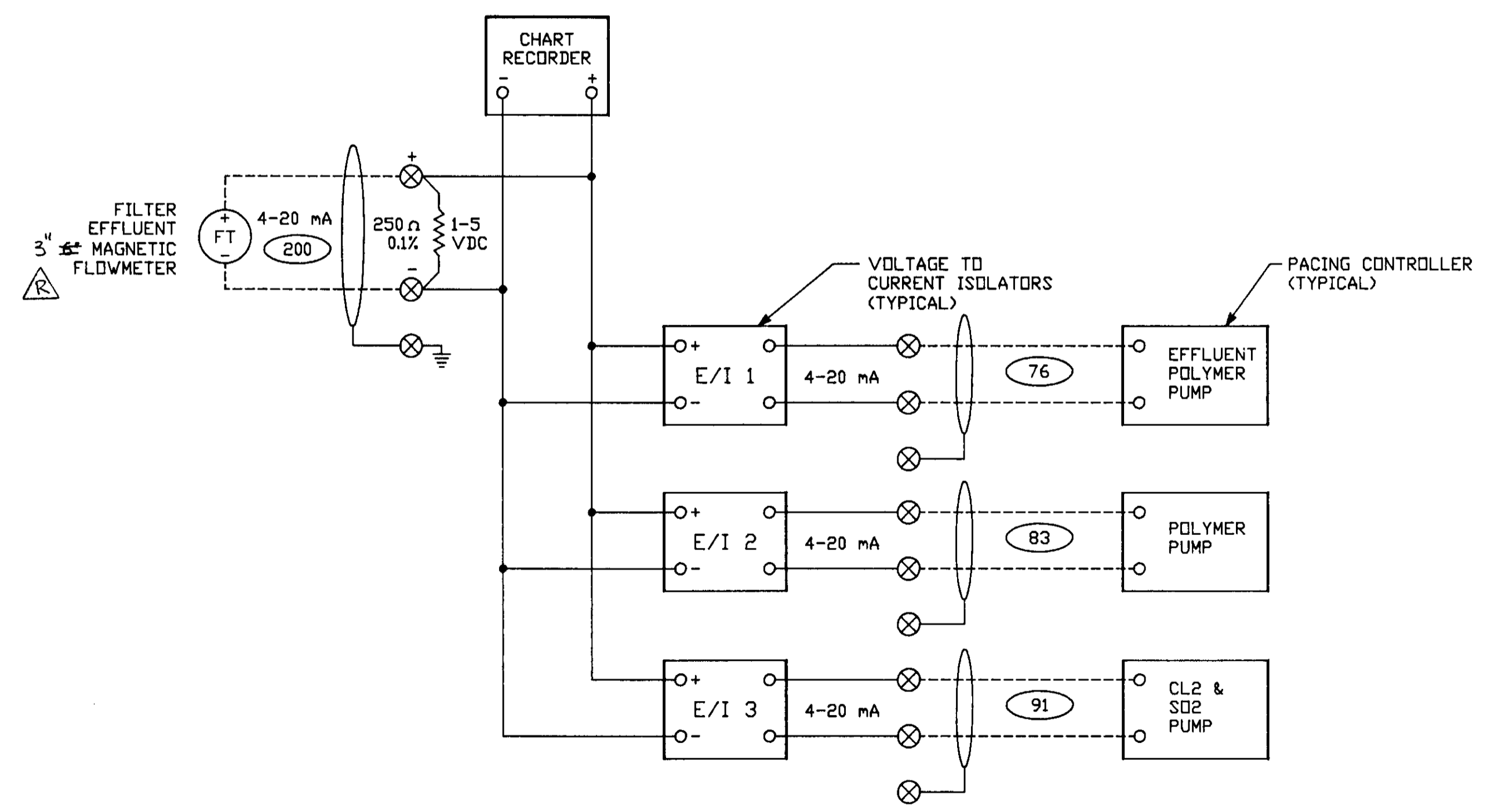
DRAWING NUMBER	SHEET NUMBER
E-9A	39A of 44

REVISION	DESCRIPTION	BY	APP	DATE
1	RECORD DWG. CHANGES INCORP.	DCL	RMD	6-95



ANNUNCIATOR + AUTODIALER WIRING SCHEMATIC

NOT TO SCALE



CHEMICAL PACING WIRING SCHEMATIC

NOT TO SCALE

EFFLUENT POLYMER STORAGE

SCALE: 1/2" = 1'

SU-2864

FILE: 9404C-E9

SCALE 1/2" = 1'	DATE AUGUST 1994	DESIGNED RLV	SUBMITTED
	FILE	DRAWN ZKV	RECOMMENDED
		CHECKED RLV	APPROVED

DEWANTE AND STOWELL
CONSULTING ENGINEERS
SACRAMENTO, CALIFORNIA

FLAG CITY
SAN JOAQUIN CO., CALIFORNIA
WASTEWATER TREATMENT FACILITIES

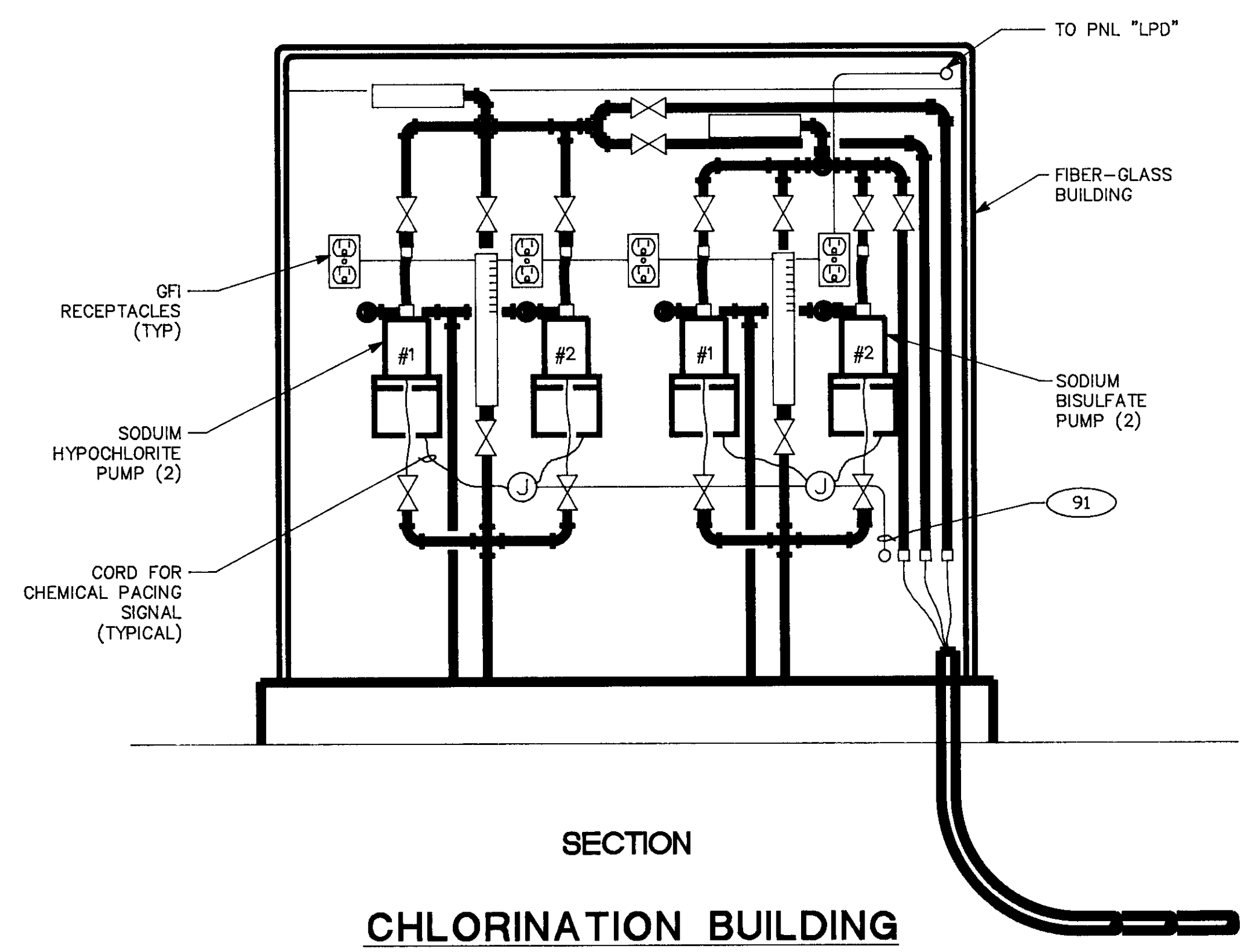
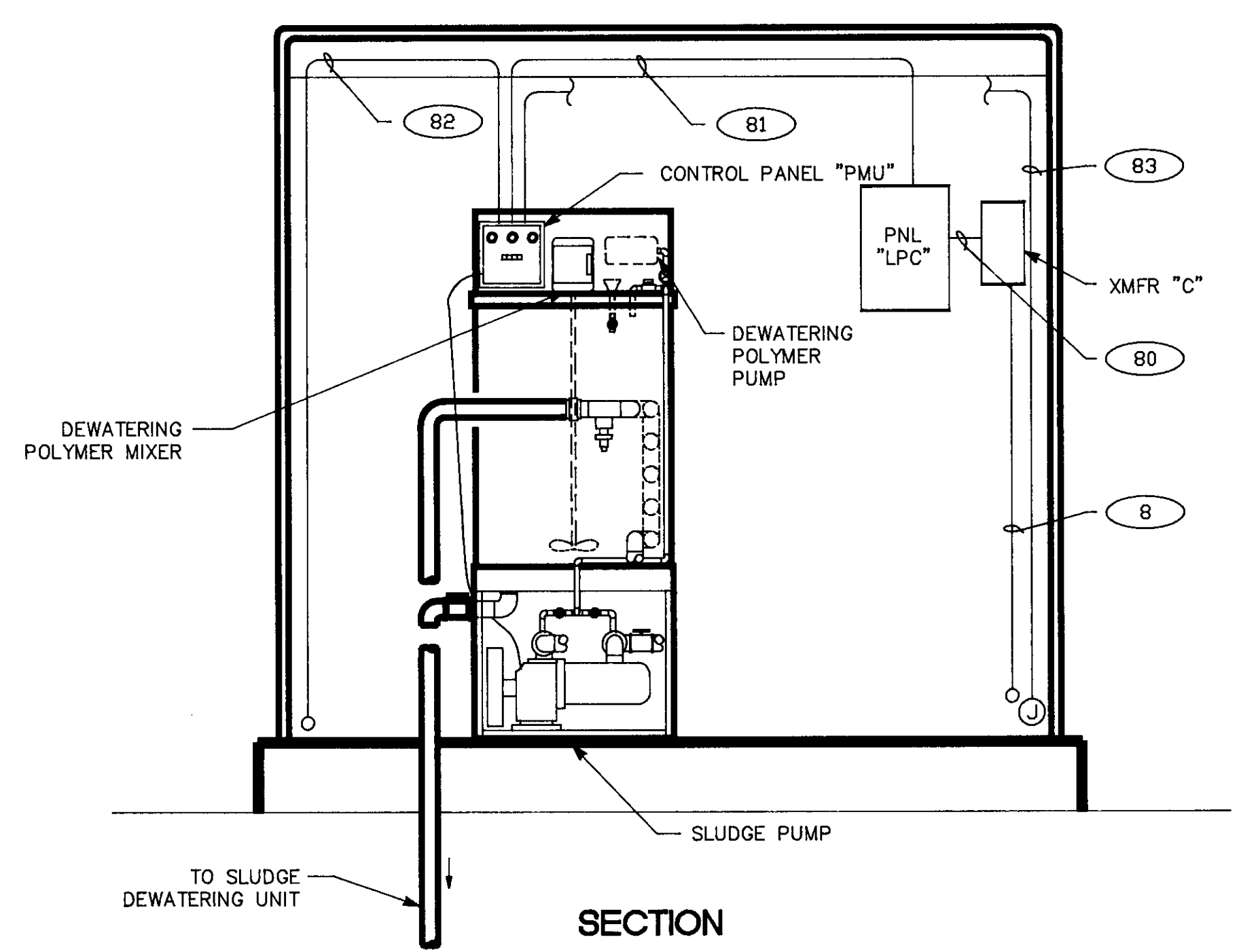
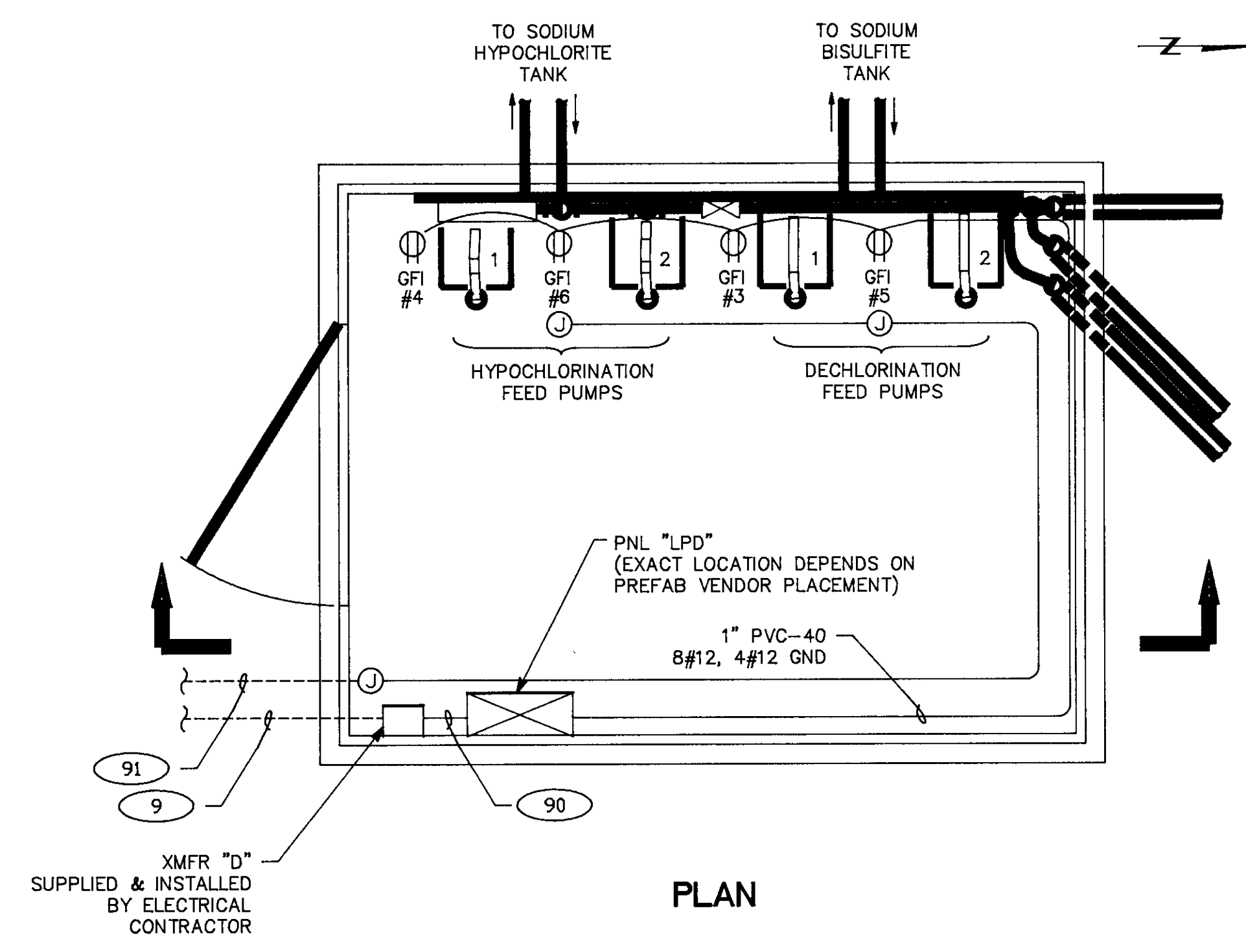
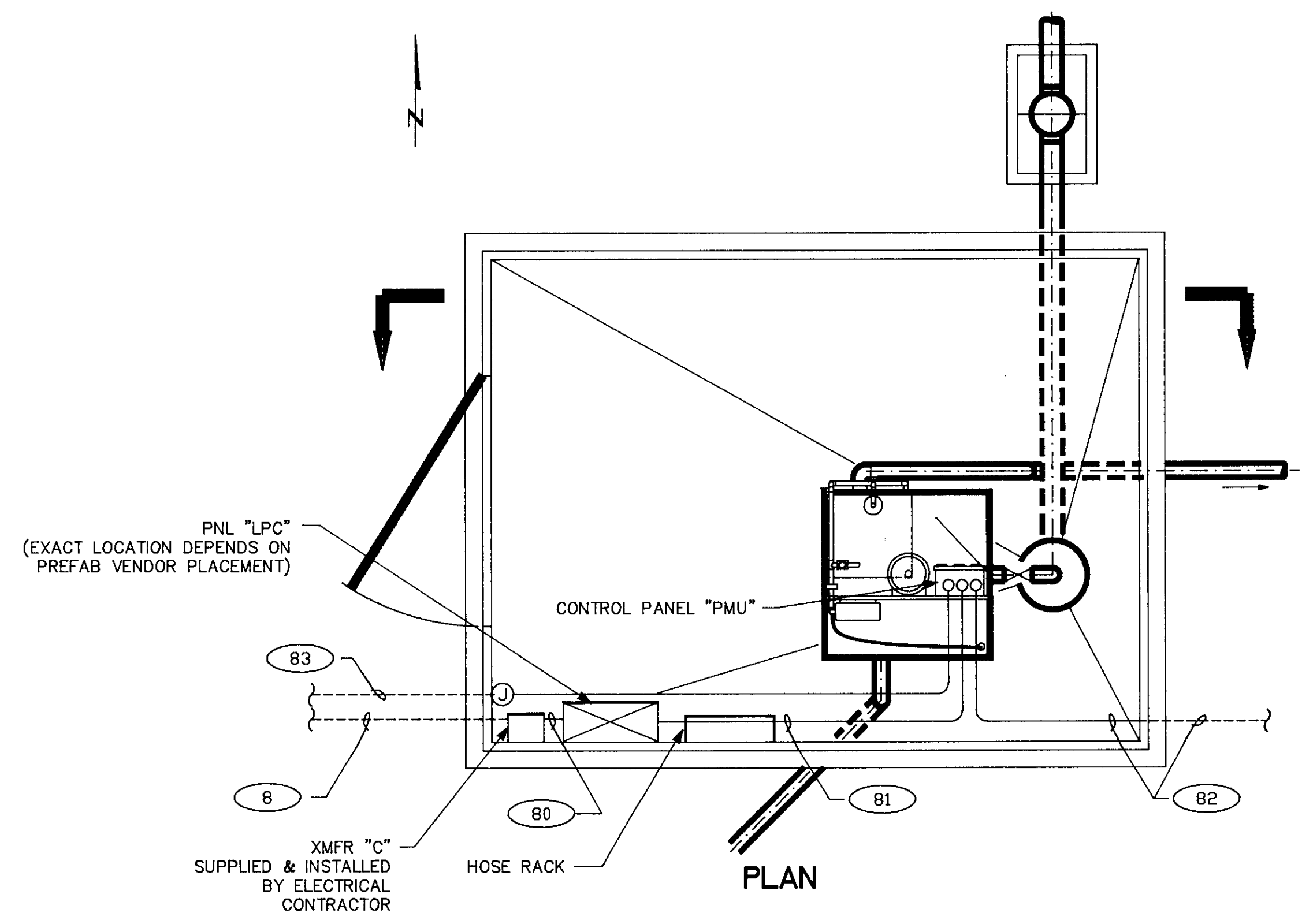
**EFFLUENT POLYMER STORAGE
& PANEL "AM" WIRING SCHEMATICS**



3123 BROADWAY
SACRAMENTO, CA 95817
916-457-8144

DRAWING NUMBER E-9	SHEET NUMBER 39 of 44
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REVISION	DESCRIPTION	BY	APP	DATE



SLUDGE POLYMER STORAGE

CHLORINATION BUILDING



FILE: 9404C-E8

SCALE NONE	DATE AUGUST 1994	DESIGNED RLV	SUBMITTED
	FILE	DRAWN ZK	RECOMMENDED
		CHECKED RLV	APPROVED

DEWANTE AND STOWELL
CONSULTING ENGINEERS
SACRAMENTO, CALIFORNIA

FLAG CITY
SAN JOAQUIN CO., CALIFORNIA
WASTEWATER TREATMENT FACILITIES

SLUDGE POLYMER STORAGE/
CHLORINATION BUILDING

3123 BROADWAY
SACRAMENTO, CA. 95817

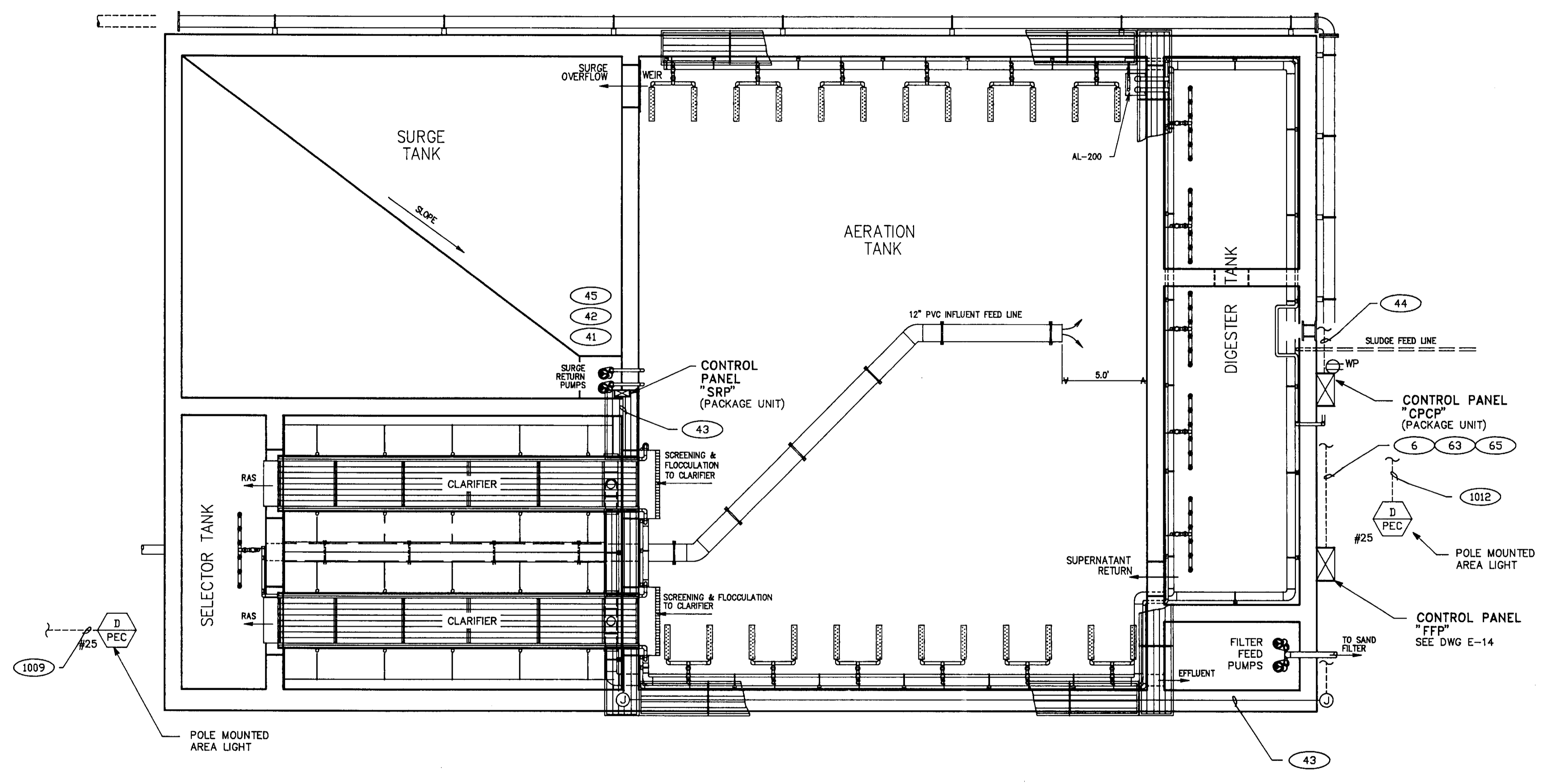
TEEM 916-457-8144

DRAWING NUMBER
E-8

SHEET NUMBER
38 OF 44

SU 2865

REVISION	DESCRIPTION	BY	APP	DATE



PLAN VIEW



SY-2866

FILE: 9404C-E7

SCALE 1/4" = 1'	DATE AUGUST 1994	DESIGNED RLV	SUBMITTED
FILE		DRAWN ZKV	RECOMMENDED
		CHECKED RLV	APPROVED

DEWANTE AND STOWELL
CONSULTING ENGINEERS
SACRAMENTO, CALIFORNIA

FLAG CITY
SAN JOAQUIN CO., CALIFORNIA
WASTEWATER TREATMENT FACILITIES

RECORD DRAWING

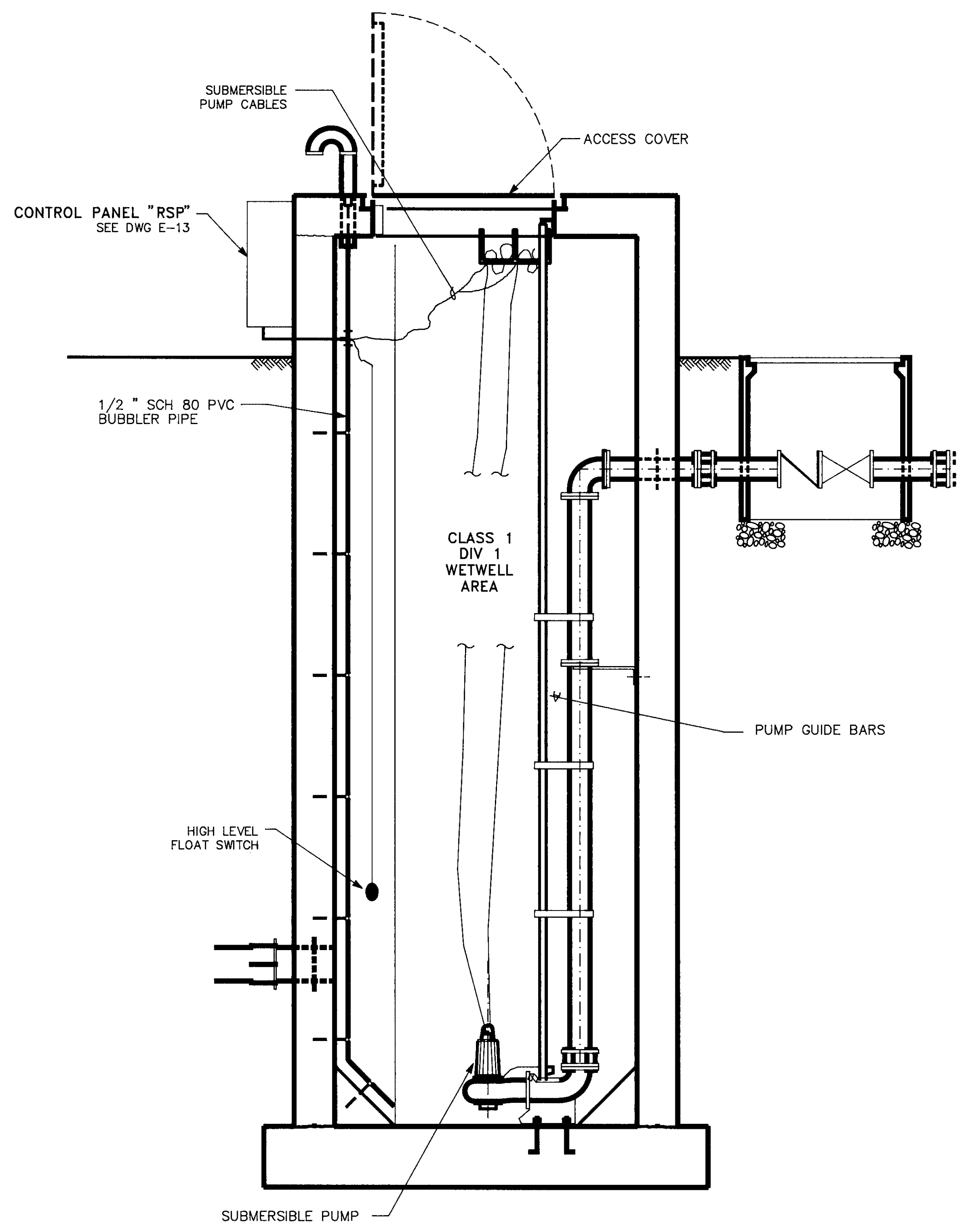
AREATION BASIN
AREA PLAN

3123 BROADWAY
SACRAMENTO, CA. 95817
916-457-8144

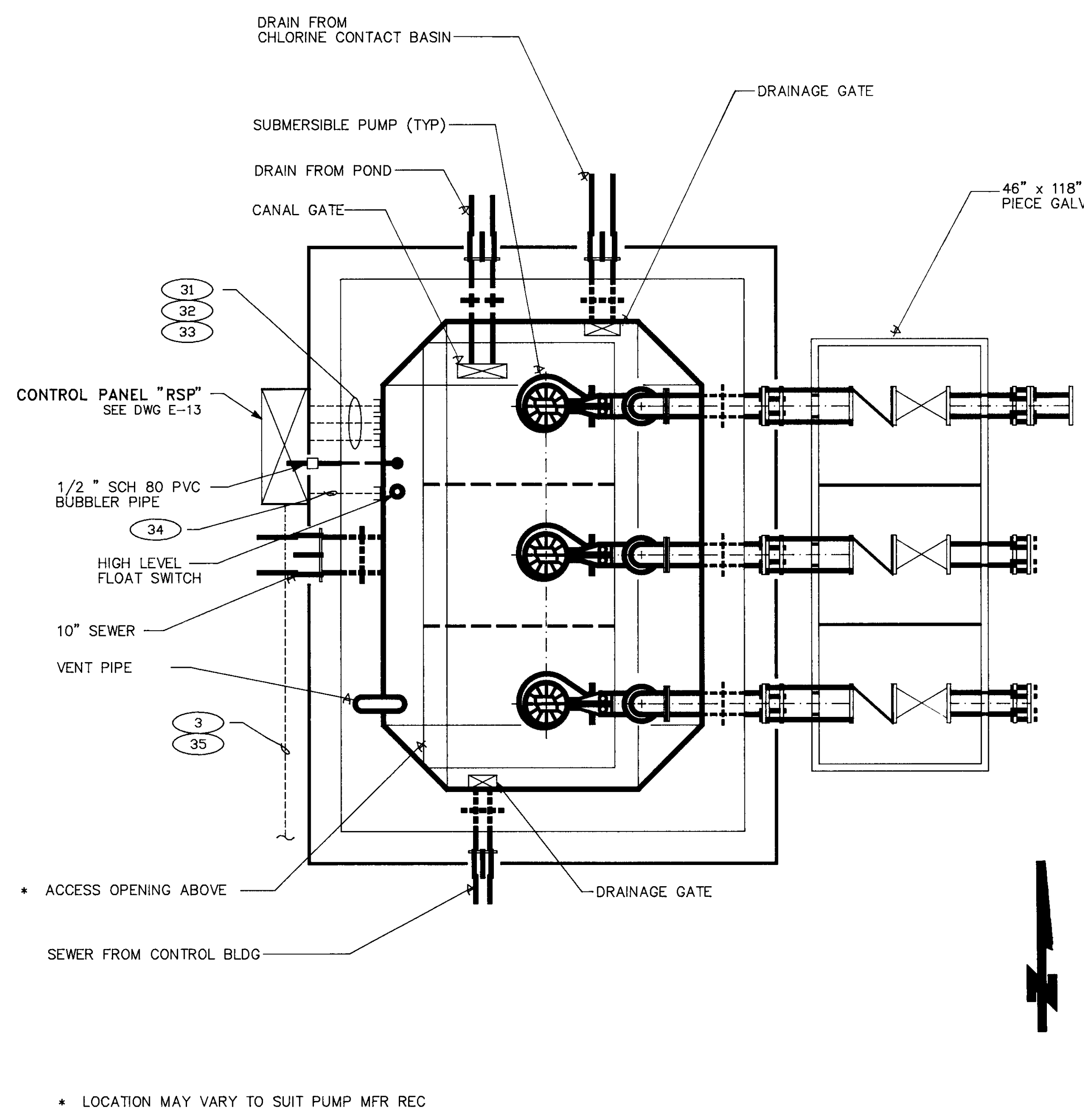
TEEM

DRAWING NUMBER E-7	SHEET NUMBER 37 OF 44
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REVISION	DESCRIPTION	BY	APP	DATE



SECTION



PLAN

* LOCATION MAY VARY TO SUIT PUMP MFR REC

* ACCESS OPENING ABOVE

SEWER FROM CONTROL BLDG



FILE: 9404C-E6

SCALE 1/2" = 1'	DATE AUGUST 1994	DESIGNED RLV	SUBMITTED _____
FILE		DRAWN ZKV	RECOMMENDED _____
		CHECKED RLV	APPROVED _____

DEWANTE AND STOWELL
CONSULTING ENGINEERS
SACRAMENTO, CALIFORNIA

FLAG CITY
SAN JOAQUIN CO., CALIFORNIA
WASTEWATER TREATMENT FACILITIES

RAW SEWAGE PUMP STATION PLAN

3123 BROADWAY
SACRAMENTO, CA 95817
916-457-8144

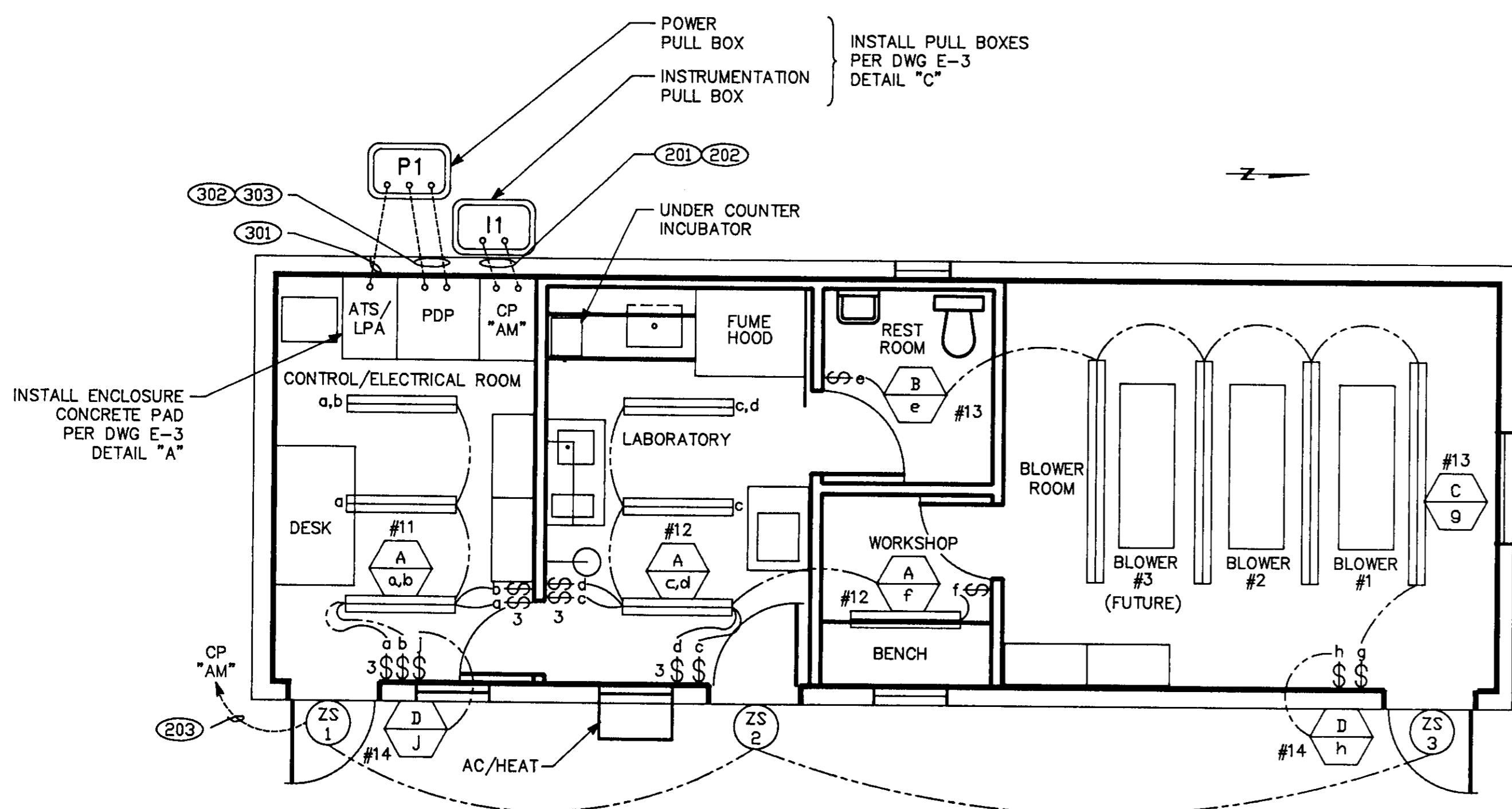
TEEM

DRAWING NUMBER
E-6

SHEET NUMBER
36 OF 44

SU-2867

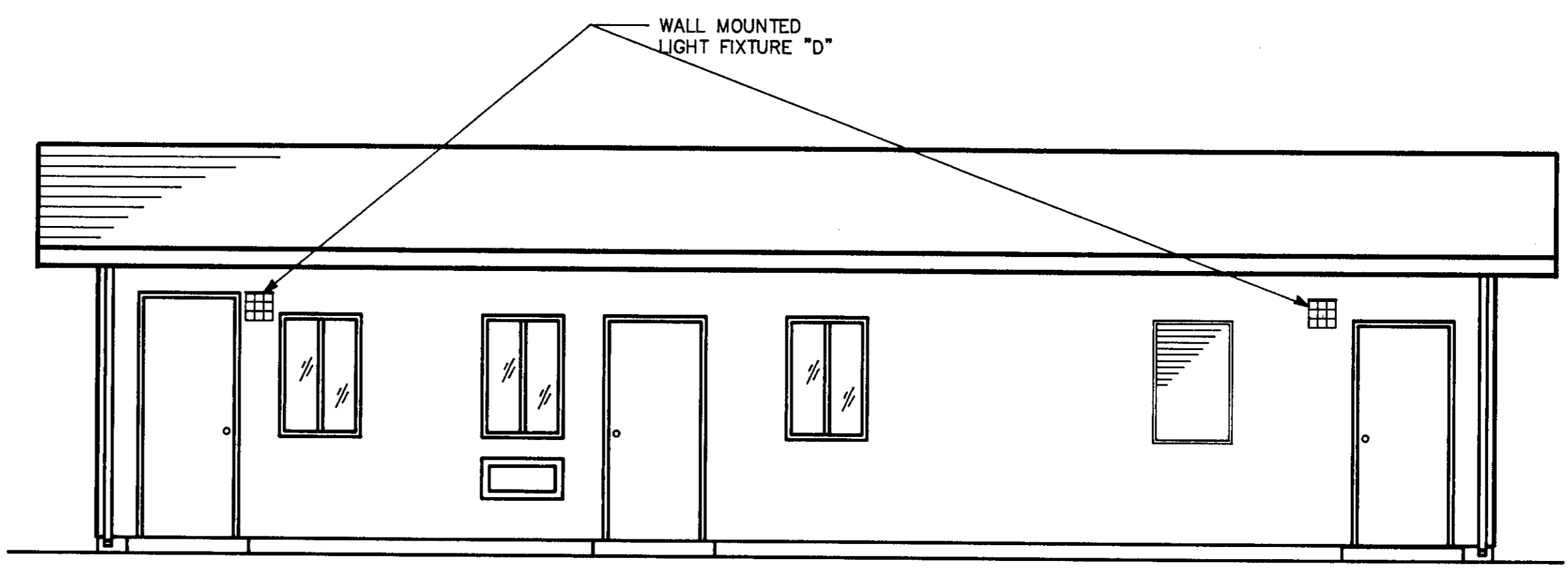
REVISION	DESCRIPTION	BY	APP	DATE



ELECTRICAL LIGHTING PLAN

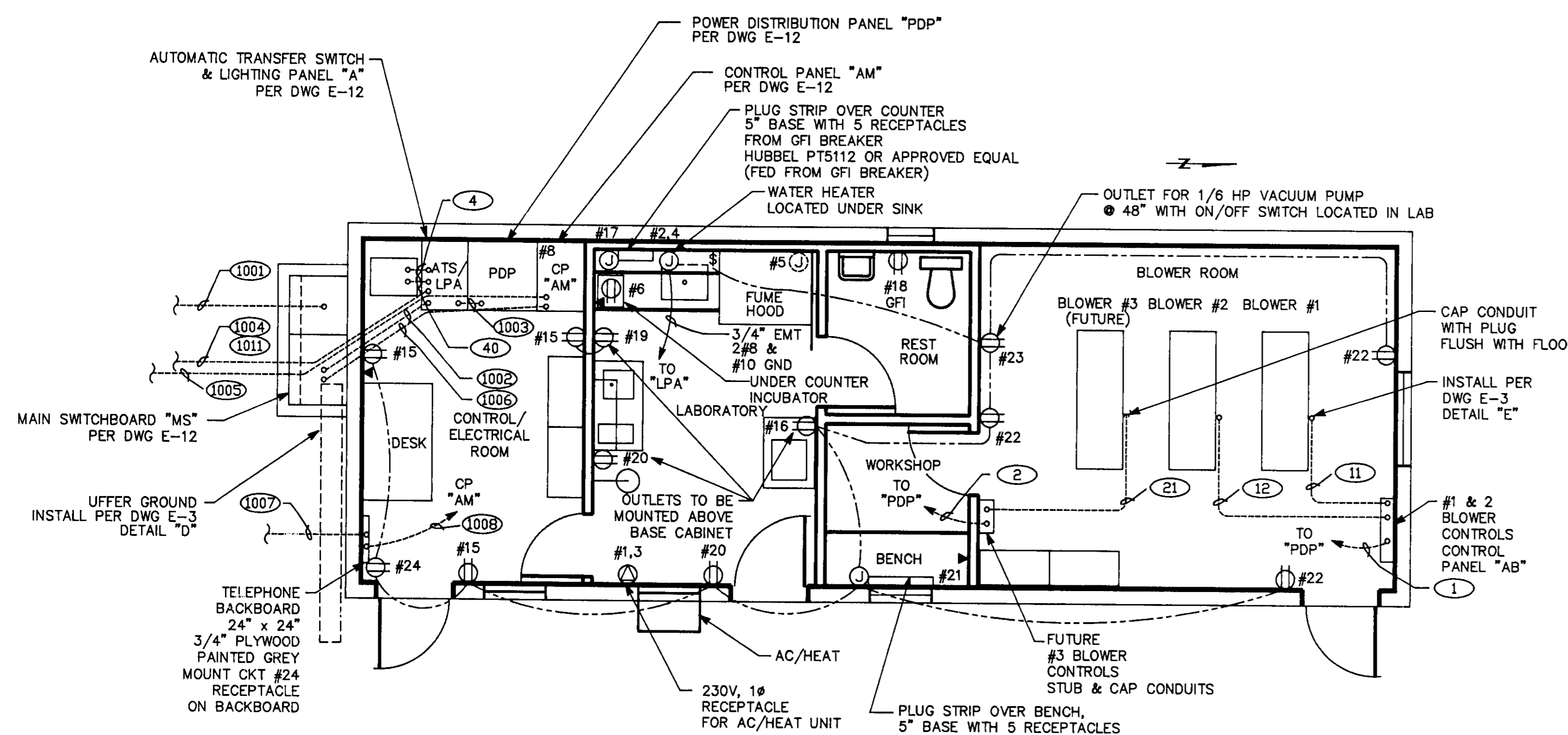
- NOTE: 1. PROVIDE NECESSARY #12 WIRES IN EMT CONDUIT FOR LIGHTING CIRCUIT ARRANGEMENT AS SHOWN.
 2. HOMERUNS SHALL BE PROVIDED FOR ALL PANEL LPA CIRCUITS.

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



ELEVATION

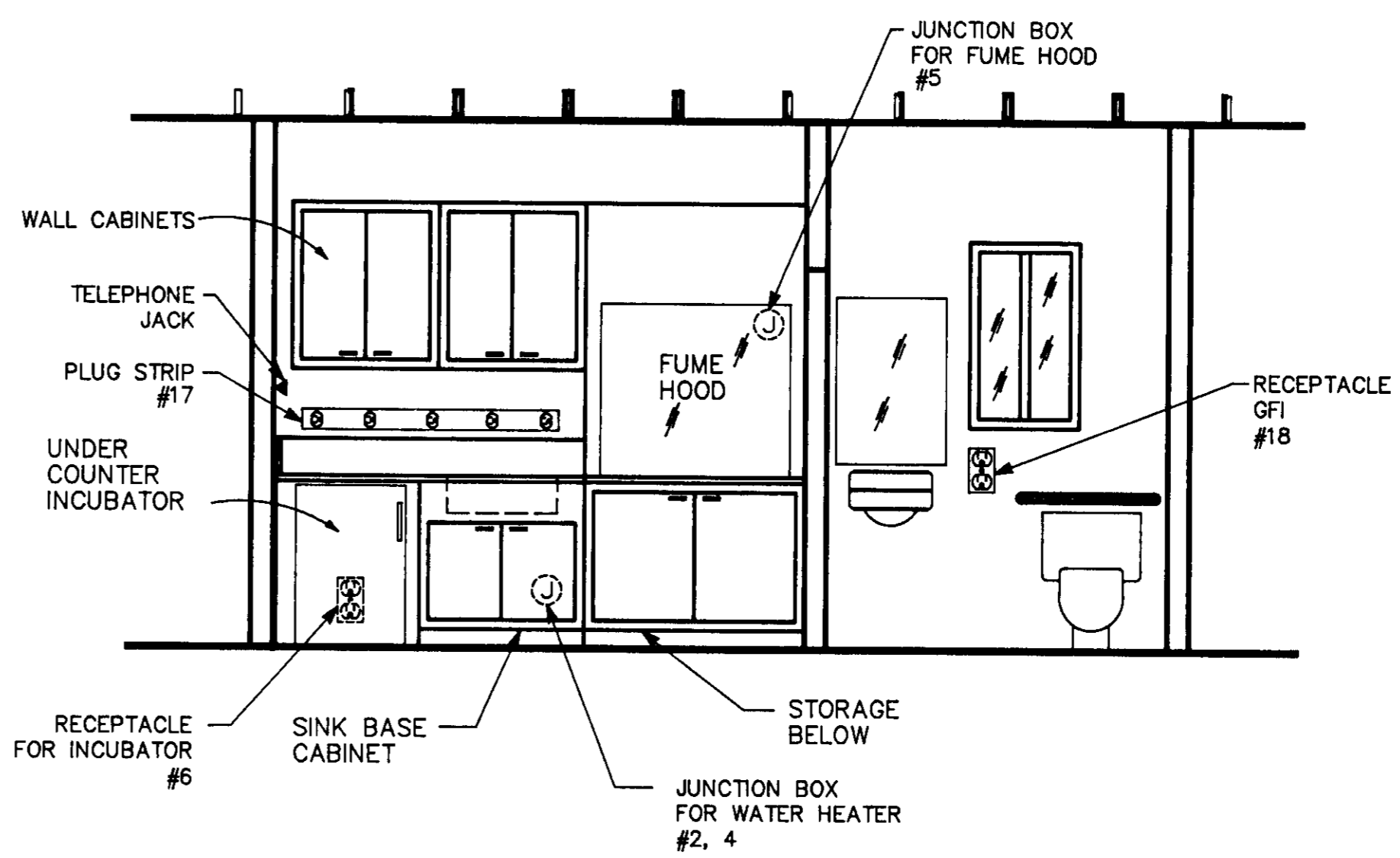
SCALE: 1/4" = 1'-0"



ELECTRICAL POWER PLAN

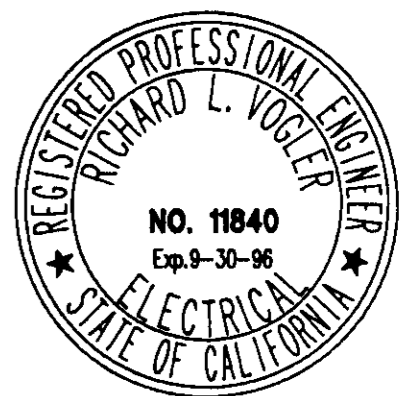
- NOTE: 1. PROVIDE NECESSARY #12 WIRES IN EMT CONDUIT FOR RECEPTACLES CIRCUIT ARRANGEMENT AS SHOWN.
 2. HOMERUNS SHALL BE PROVIDED FOR ALL PANEL LPA CIRCUITS.
 3. INSTALL EACH TELEPHONE JACK WITH TELEPHONE CABLE RAN TO TELEPHONE BACKBOARD.

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



LAB/BATH ELEVATIONS

SCALE: 3/8" = 1'-0"



FILE: 9404C-E5

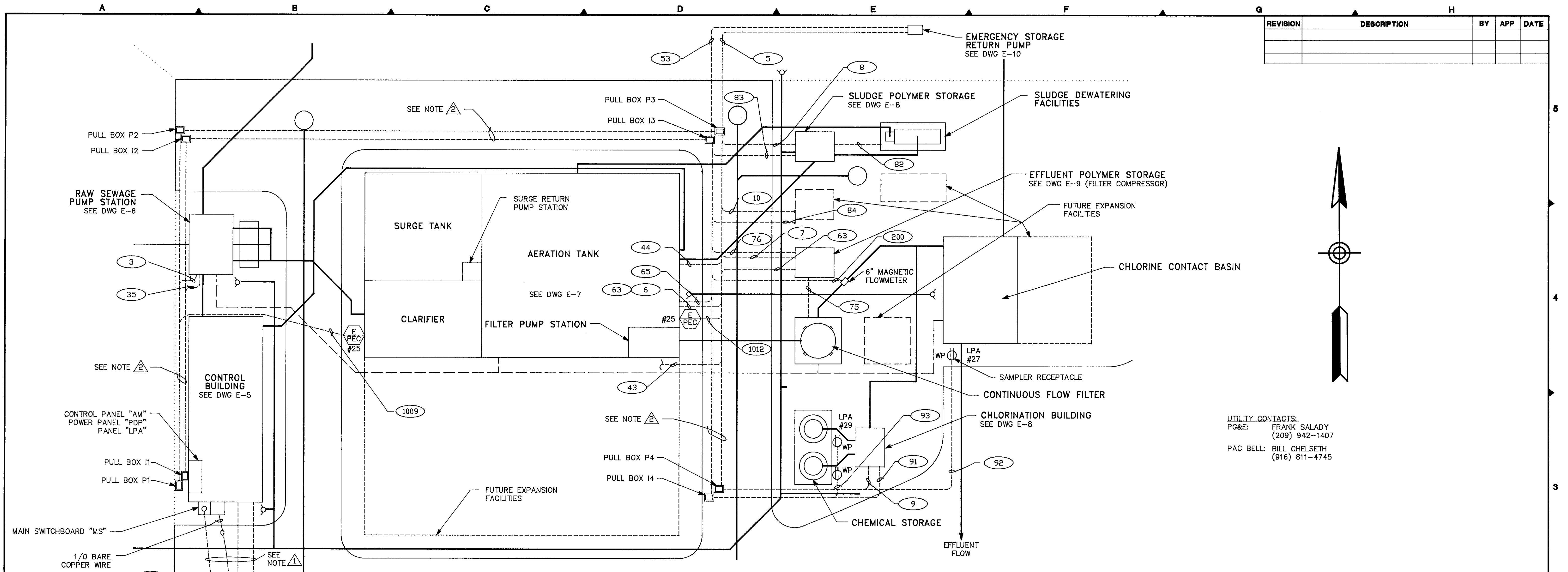
SCALE	DATE	DESIGNED	RLV	SUBMITTED
NONE	AUGUST 1994	DRAWN	ZKV	RECOMMENDED
	FILE	CHECKED	RLV	APPROVED

DEWANTE AND STOWELL
 CONSULTING ENGINEERS
 SACRAMENTO, CALIFORNIA

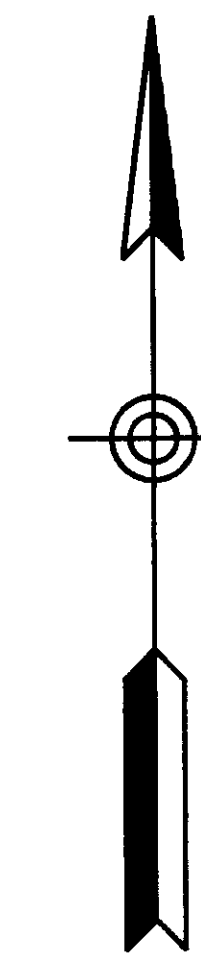
FLAG CITY
 SAN JOAQUIN CO., CALIFORNIA
 WASTEWATER TREATMENT FACILITIES

RECORD DRAWING
CONTROL BUILDING
LIGHTING & POWER PLAN

3123 BROADWAY SACRAMENTO, CA. 95817	
916-457-8144	
DRAWING NUMBER	SHEET NUMBER
E-5	35 of 44



REVISION	DESCRIPTION	BY	APP	DATE



UTILITY CONTACTS:
 PG&E: FRANK SALADY
 (209) 942-1407
 PAC BELL: BILL CHELSETH
 (916) 811-4745

CONDUIT SCHEDULE							CONDUIT SCHEDULE							
COND. NO.	FROM	TO	COND. SIZE	CONDUIT TYPE	CONDUCTOR SIZE & QTY	VIA PULL BOXES	COND. NO.	FROM	TO	COND. SIZE	CONDUIT TYPE	CONDUCTOR SIZE & QTY	VIA PULL BOXES	NOTES
1	POWER PANEL "PDP"	CONTROL PANEL "AB"	3"	GRS	3#3/0, 1#4 GND		72	CONTROL PANEL "FC"	FILTER COMPRESSOR #2	1"	GRS-PVC	3#10, 1#10 GND		PACKAGE UNIT
2	POWER PANEL "PDP"	(F) CONTROL PANEL BLOWER #3	2"	GRS	2#3, 1#6 GND		73	PANEL "LPB"	CONTROL PANEL "FC"	3/4"	GRS-PVC	2#12, 1#12 GND		
3	POWER PANEL "PDP"	CONTROL PANEL "RSP"	1"	GRS-PVC	3#10, 1#10 GND	P1	74	PANEL "LPB"	AIR DRYER	3/4"	GRS-PVC	2#12, 1#12 GND		
4	POWER PANEL "PDP"	TRANSFORMER "A"	1 1/2"	GRS	2#3, 1#6 GND		75	PANEL "LPB"	SAND FILTER	3/4"	GRS-PVC	2#12, 1#12 GND		STUB AND CAP
5	POWER PANEL "PDP"	CONTROL PANEL "ESRP"	1"	GRS-PVC	3#12, 1#12 GND	P1, P2, P3	76	EFFLUENT POLYMER PUMP	CONTROL PANEL "AM"	3/4"	GRS-PVC	1#16 T.S.PR.	I1, I2, I3	CHEMICAL PACING
6	POWER PANEL "PDP"	CONTROL PANEL "FFP"	1"	GRS-PVC	3#12, 1#12 GND	P1, P2, P3	80	TRANSFORMER "C"	PANEL "LPC"	1"	GRS	3#6, 1#8 GND		
7	POWER PANEL "PDP"	TRANSFORMER "B"	1 1/4"	GRS-PVC	3#8, 1#10 GND	P1, P2, P3	81	PANEL "LPC"	CONTROL PANEL "PMU"	1"	GRS-PVC	2#8, 1#12 GND		
8	POWER PANEL "PDP"	TRANSFORMER "C"	1 1/4"	GRS-PVC	3#8, 1#10 GND	P1, P2, P3	82	CONTROL PANEL "PMU"	SLUDGE DEWATERING	3/4"	GRS-PVC	4#14, 1#14 GND		
9	POWER PANEL "PDP"	TRANSFORMER "D"	1 1/4"	GRS-PVC	3#8, 1#10 GND	P1, P2, P3, P4	83	CONTROL PANEL "PMU"	CONTROL PANEL "AM"	3/4"	GRS-PVC	1#16 T.S.PR.	I1, I2, I3	CHEMICAL PACING
10	POWER PANEL "PDP"	(F) SLUDGE POLYMER STRG	1 1/4"	GRS-PVC	3#8, 1#10 GND	P1, P2, P3	84	(F) SLUDGE POLYMER STORAGE	CONTROL PANEL "AM"	3/4"	GRS-PVC	1#16 T.S.PR.	I1, I2, I3	CHEMICAL PACING
11	CONTROL PANEL "AB"	AERATION BLOWER #1	1 1/4"	GRS	3#4, 1#8 GND		90	TRANSFORMER "D"	PANEL "LPD"	1"	GRS	3#6, 1#8 GND		
12	CONTROL PANEL "AB"	AERATION BLOWER #2	1 1/4"	GRS	3#4, 1#8 GND		91	CL2 BUILDING	CONTROL PANEL "AM"	1"	GRS-PVC	1#16 T.S.PR.	I1, I2, I3, I4	CHEMICAL PACING
21	CONTROL PANEL BLOWER #3	(F) AERATION BLOWER #3	1 1/4"	GRS	3#4, 1#8 GND		92	PANEL "LPA"	SAMPLER RECEPTACLE	3/4"	GRS-PVC	2#12, 1#12 GND	P1, P2, P3, P4	
31	CONTROL PANEL "RSP"	RAW SEWAGE PUMP #1	3/4"	PVC-80	SUBMERSIBLE PUMP CABLE		93	PANEL "LPA"	CHEM STORAGE AREA RECPT	3/4"	GRS-PVC	2#12, 1#12 GND	P1, P2, P3, P4	
32	CONTROL PANEL "RSP"	RAW SEWAGE PUMP #2	3/4"	PVC-80	SUBMERSIBLE PUMP CABLE		200	INFLUENT FLOW METER	CONTROL PANEL "AM"	3/4"	GRS-PVC	1#16 T.S.PR., 2#14, 1#14 GND	I1, I2, I3, I4	
33	CONTROL PANEL "RSP"	RAW SEWAGE PUMP #3	3/4"	PVC-80	SUBMERSIBLE PUMP CABLE		201	CONTROL PANEL "AM"	INSTRUMENT PULLBOX "I1"	2"	GRS-PVC	2"		FOR FUTURE EXPANSION
34	CONTROL PANEL "RSP"	FLOAT SWITCHES	1"	PVC-80	FLOAT SWITCH CABLE		202	CONTROL PANEL "AM"	INSTRUMENT PULLBOX "I1"	2"	GRS-PVC	2"		FOR FUTURE EXPANSION
35	CONTROL PANEL "RSP"	CONTROL PANEL "AM"	3/4"	GRS-PVC	2#14	I1	203	INTRUSION DOOR SWITCHES	CONTROL PANEL "AM"	3/4"	EMT	6#14		
40	TRANSFORMER "A"	PANEL "LPA"	2"	GRS	3#1/0, 1#6 GND		301	PANEL "LPA"	POWER PULLBOX "P1"	2"	GRS-PVC	2"		FOR FUTURE EXPANSION
41	CONTROL PANEL "SRP"	SURGE RETURN PUMP #1	3/4"	PVC-80	SUBMERSIBLE PUMP CABLE		302	POWER PANEL "PDP"	POWER PULLBOX "P1"	2 1/2"	GRS-PVC	2 1/2"		FOR FUTURE EXPANSION
42	CONTROL PANEL "SRP"	SURGE RETURN PUMP #2	3/4"	PVC-80	SUBMERSIBLE PUMP CABLE		303	POWER PANEL "PDP"	POWER PULLBOX "P1"	2 1/2"	GRS-PVC	2 1/2"		FOR FUTURE EXPANSION
43	PANEL "LPA"	CONTROL PANEL "SRP"	1"	GRS-PVC	2#10, 1#12 GND	P1, P2, P3	1000	POWER UTILITY	UTILITY TRANSFORMER	4"	PVC-120	3/8" NYLON PULL ROPE		
44	PANEL "LPA"	CONTROL PANEL "CPCP"	3/4"	GRS-PVC	2#12, 1#12 GND	P1, P2, P3	1001	UTILITY TRANSFORMER	MAIN SWITCHBOARD "MS"	4"	PVC-120	3/8" NYLON PULL ROPE		
45	CONTROL PANEL "SRP"	FLOAT SWITCHES	1"	GRS	3#10, 1#10 GND		1002	MAIN SWITCHBOARD "MS"	ATS	5 1/2"	GRS	3#600, 1#2 GND		
51	CONTROL PANEL "ESRP"	EMERG. STRG RTN PUMP	3/4"	GRS-PVC	SUBMERSIBLE PUMP CABLE		1003	ATS	POWER PANEL "PDP"	5 1/2"	GRS	3#600, 1#2 GND		
52	CONTROL PANEL "ESRP"	FLOAT SWITCH	3/4"	GRS-PVC	FLOAT SWITCH CABLE		1004	GENERATOR	ATS	2 1/2"	GRS-PVC	3#4/0, 1#6 GND, 1#1/0 NEU		
53	CONTROL PANEL "ESRP"	CONTROL PANEL "AM"	3/4"	GRS-PVC	2#14	I1, I2, I3	1005	GENERATOR	CONTROL PANEL "AM"	3/4"	GRS-PVC	4#14		ATS GEN START & GEN ALARM
61	CONTROL PANEL "FFP"	FILTER FEED PUMP #1	3/4"	PVC-80	SUBMERSIBLE PUMP CABLE		1006	MAIN SWITCHBOARD "MS"	CONTROL PANEL "AM"	3/4"	GRS-PVC	2#14		POWER FAIL ALARM
62	CONTROL PANEL "FFP"	FILTER FEED PUMP #2	3/4"	PVC-80	SUBMERSIBLE PUMP CABLE		1007	TELEPHONE BACKBOARD	TELEPHONE UTILITY	2"	PVC-40	3/8" NYLON PULL ROPE		
63	CONTROL PANEL "FFP"	FILTER AIR SOLENOID VALVE	3/4"	GRS-PVC	2#14, 1#14 GND		1008	TELEPHONE BACKBOARD	CONTROL PANEL "AM"	3/4"	GRS	PHONE CABLE		AUTO DIALER
64	CONTROL PANEL "FFP"	FLOAT SWITCHES	2"	PVC-80	FLOAT SWITCH CABLES		1009	PANEL "LPA"	AREA LIGHTS	3/4"	GRS-PVC	2#12, 1#12 GND	P1	
65	CONTROL PANEL "FFP"	CONTROL PANEL "AM"	3/4"	GRS-PVC	2#14	I1, I2, I3	1010	FUEL STORAGE	GENERATOR	3/4"	GRS-PVC	2#14		LOW FUEL SWITCH
70	TRANSFORMER "B"	PANEL "LPB"	1"	GRS	3#6, 1#8 GND		1011	PANEL "LPA"	GEN. HEATER & CHARGER	3/4"	GRS-PVC	4#12, 2#12 GND		
71	CONTROL PANEL "FC"	FILTER COMPRESSOR #1	1"	GRS	3#6, 1#8 GND		1012	PANEL "LPA"	AREA LIGHTS	3/4"	GRS-PVC	2#12, 1#12 GND	P1, P2, P3	

NOTES: INSTALL ALL UNDERGROUND CONDUITS PER DWG E-3, DETAIL "B"
 INSTALL CONDUITS BETWEEN PULL BOXES PER DWG E-3, DETAIL "F"



FILE: 9404C-03

3123 BROADWAY
 SACRAMENTO, CA 95817
 916-457-8144

SCALE: 1" = 10'
 DATE: AUGUST 1994
 DESIGNED: RLV
 DRAWN: ZKV
 CHECKED: RLV

SUBMITTED: _____
 RECOMMENDED: _____
 APPROVED: _____

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 CONSULTING ENGINEERS
 SACRAMENTO, CALIFORNIA

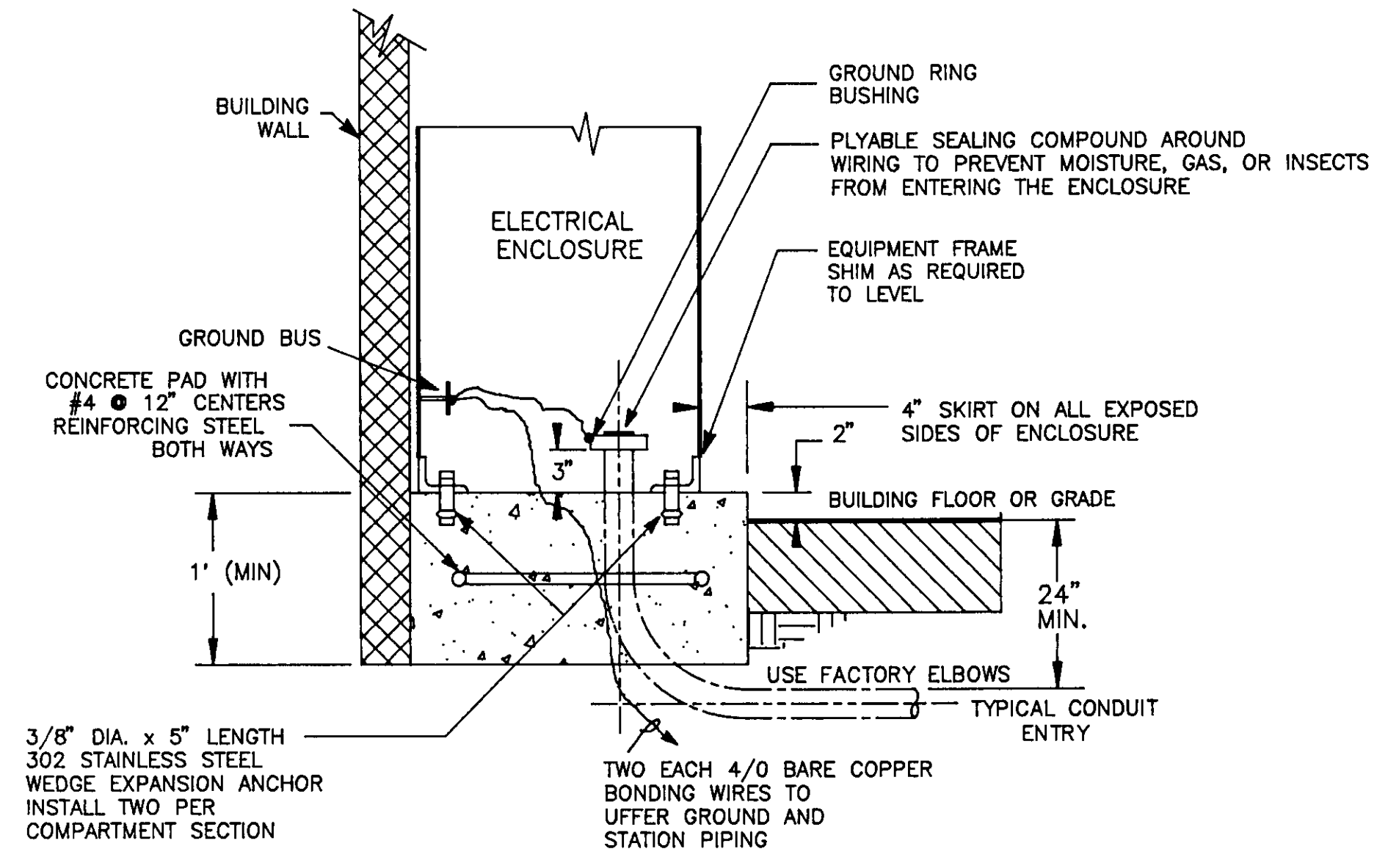
FLAG CITY
 SAN JOAQUIN CO., CALIFORNIA
 WASTEWATER TREATMENT FACILITIES

ELECTRICAL SITE PLAN

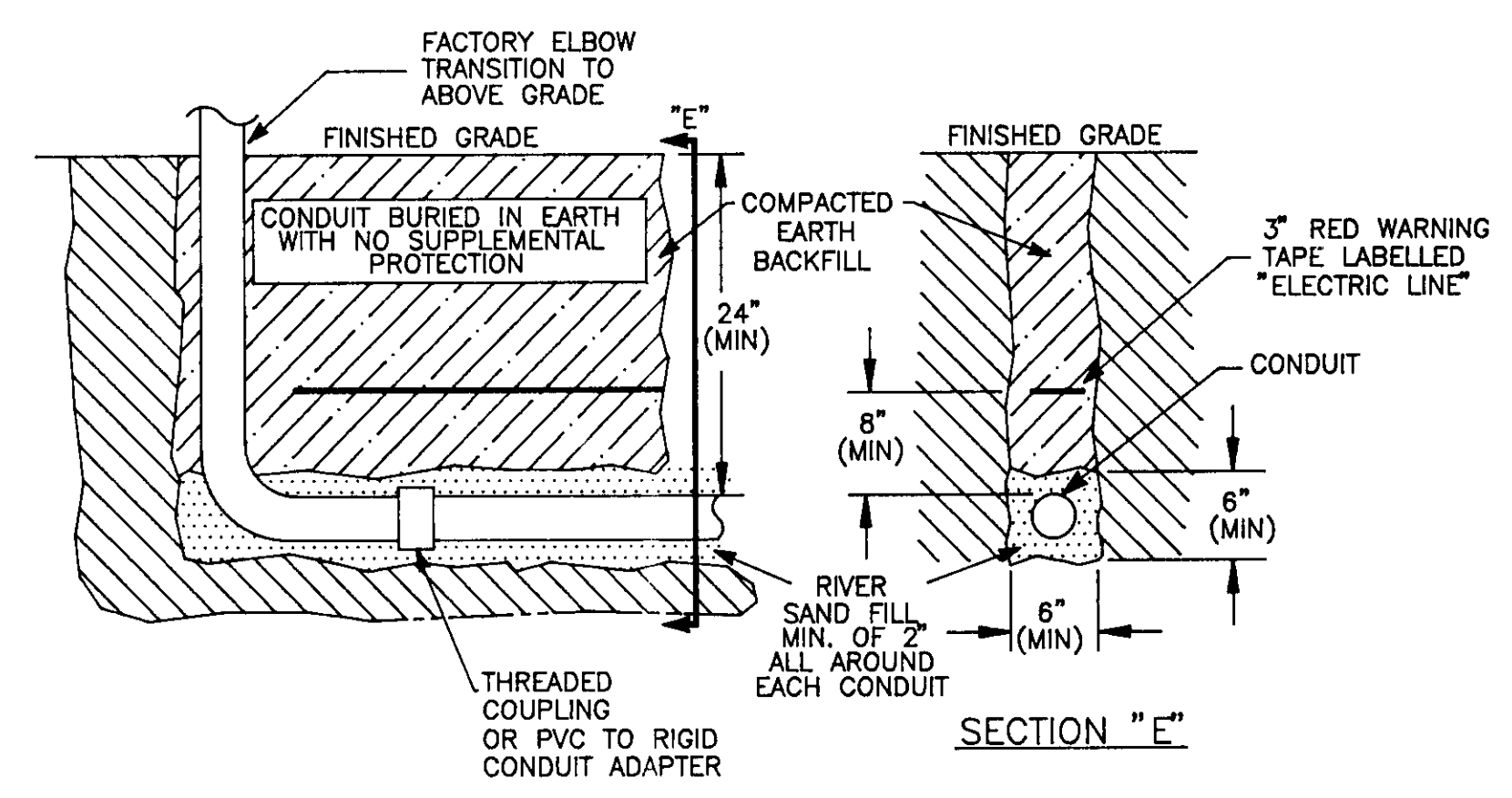
DRAWING NUMBER: **E-4**
 SHEET NUMBER: **34 of 44**

SU-286-NS

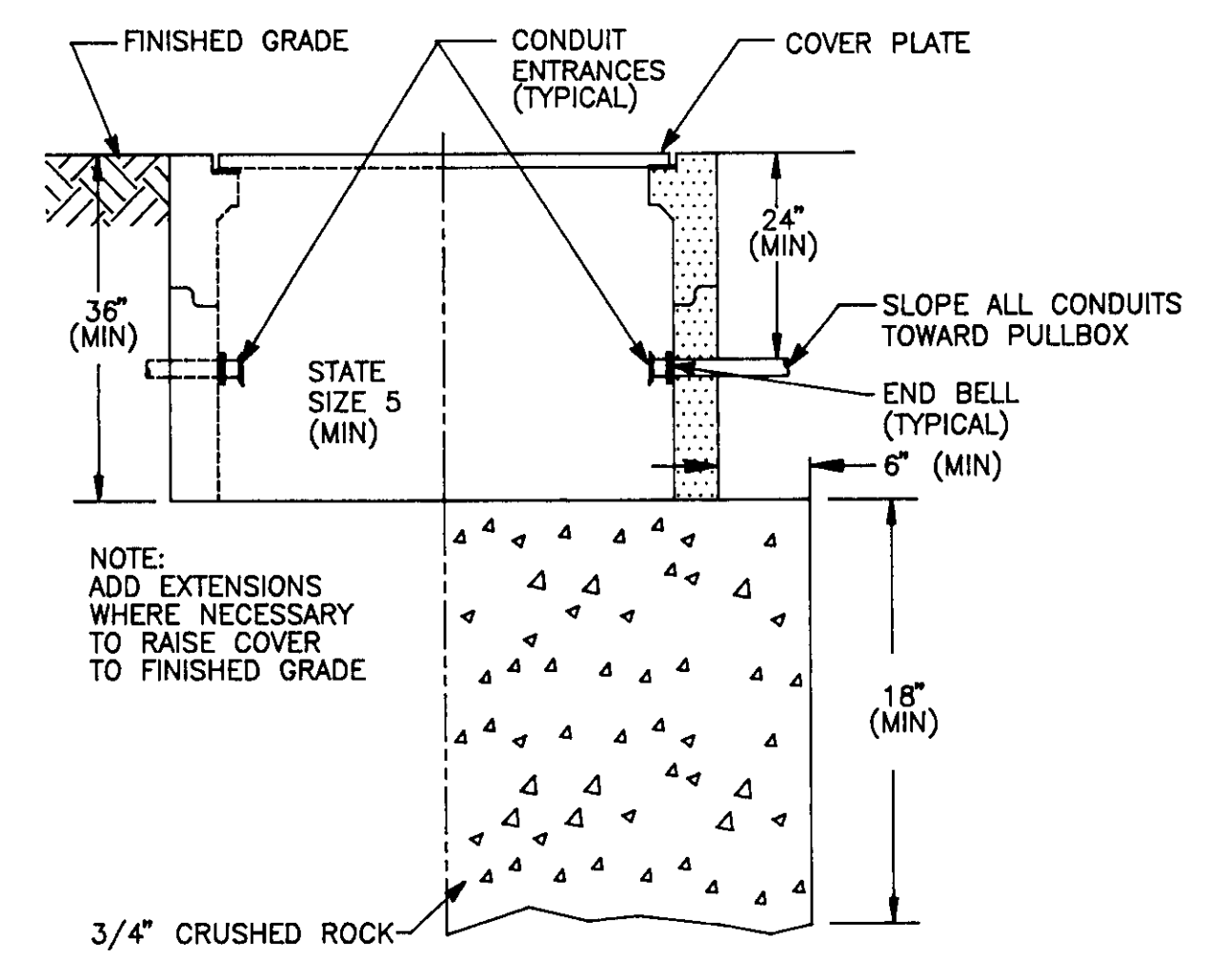
REVISION	DESCRIPTION	BY	APP	DATE



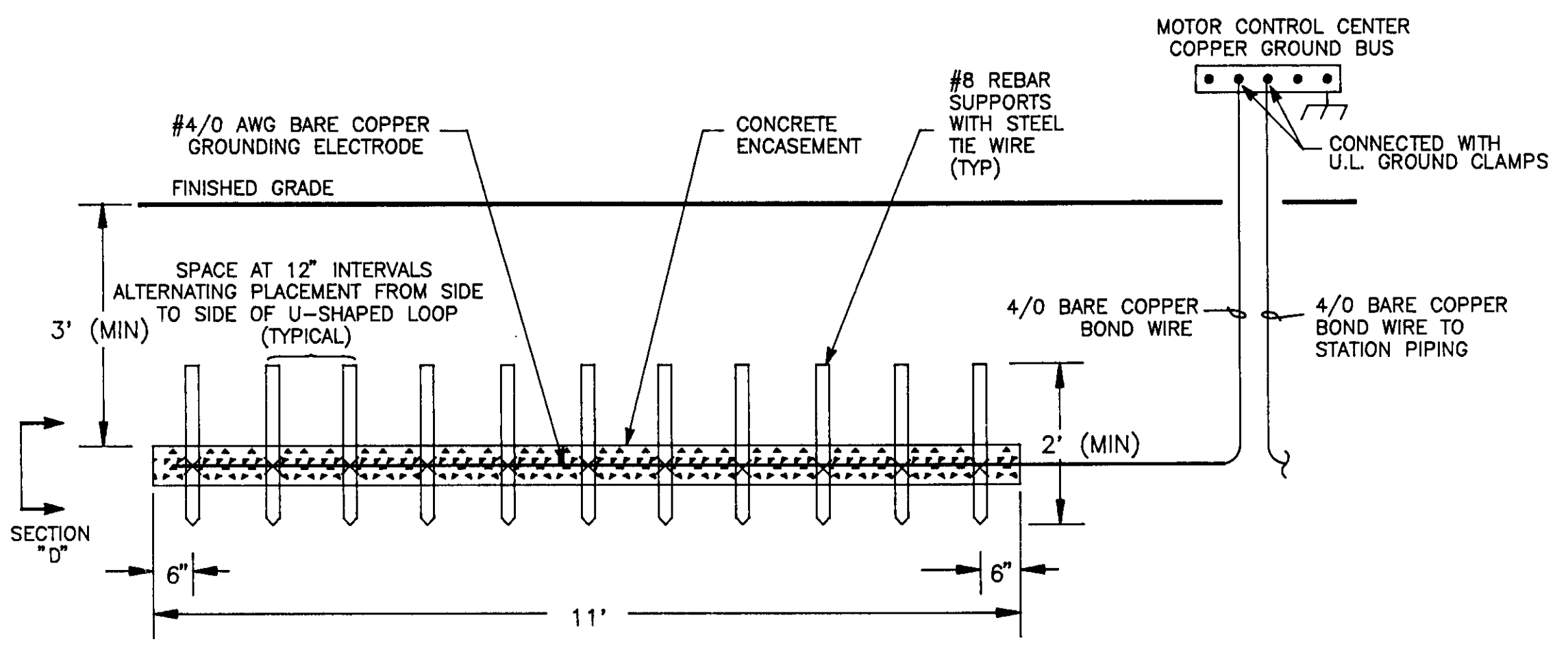
CONCRETE PAD DETAIL "A"
NOT TO SCALE



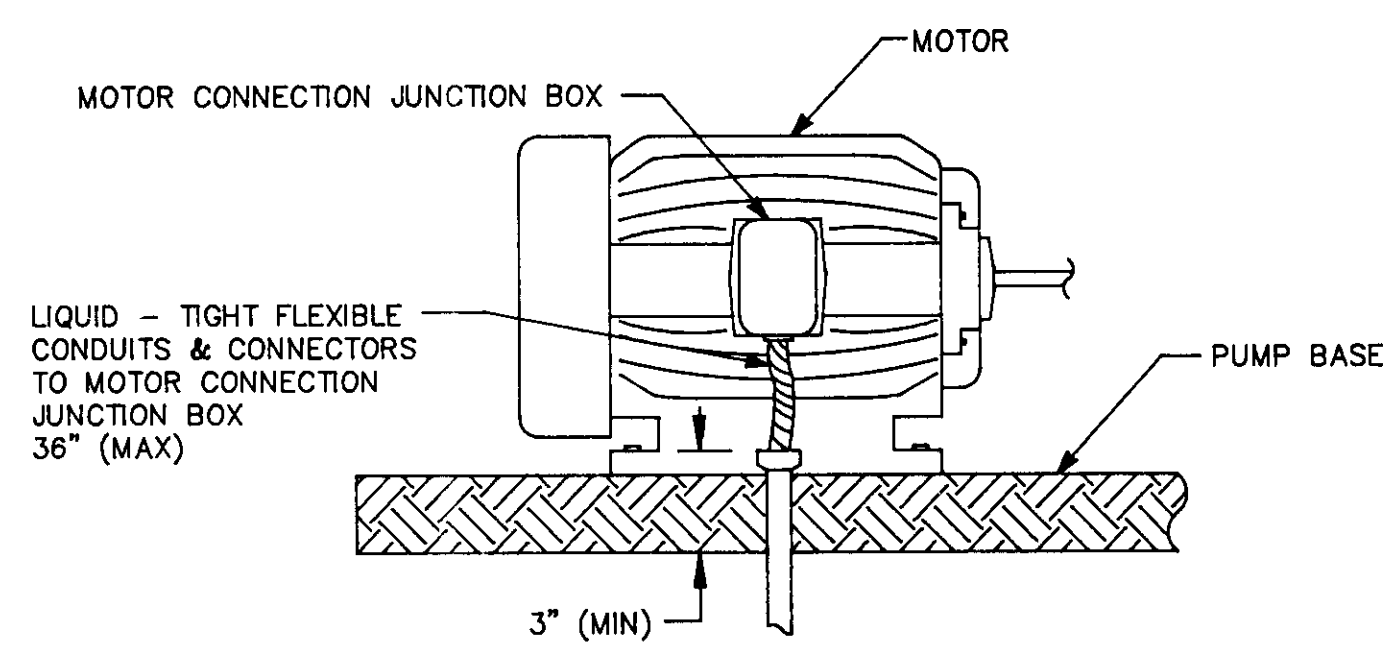
UNDERGROUND CONDUIT TRENCH DETAIL "B"
NOT TO SCALE



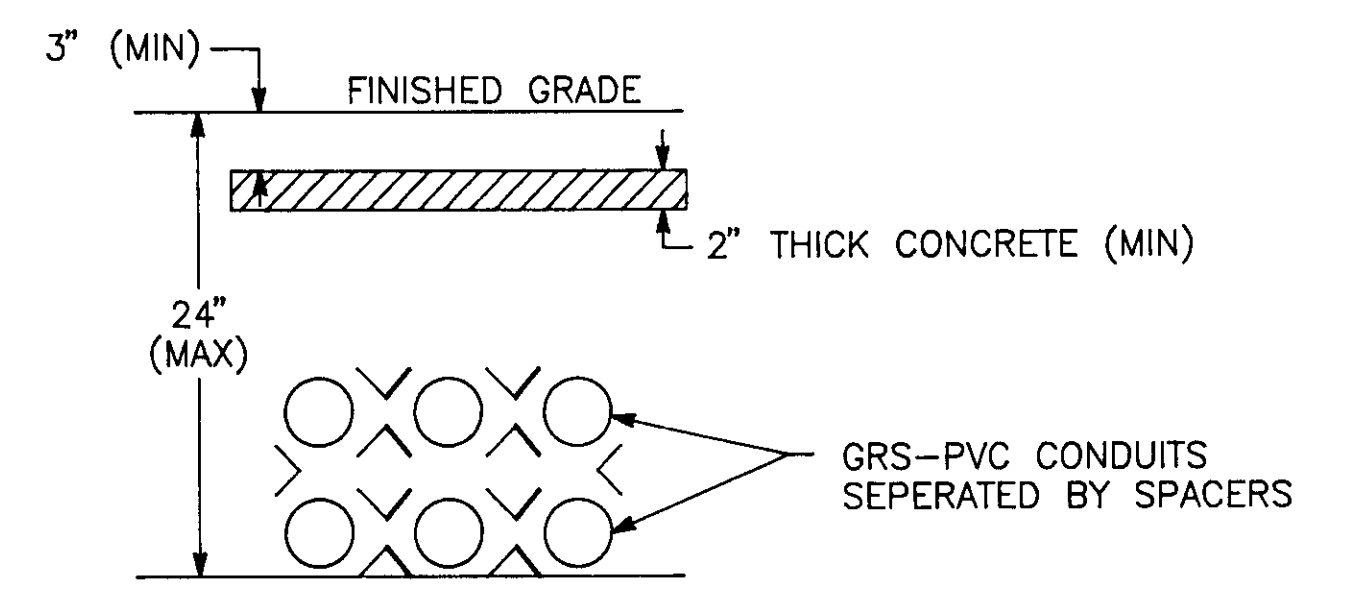
PULL BOX DETAIL "C"
NOT TO SCALE



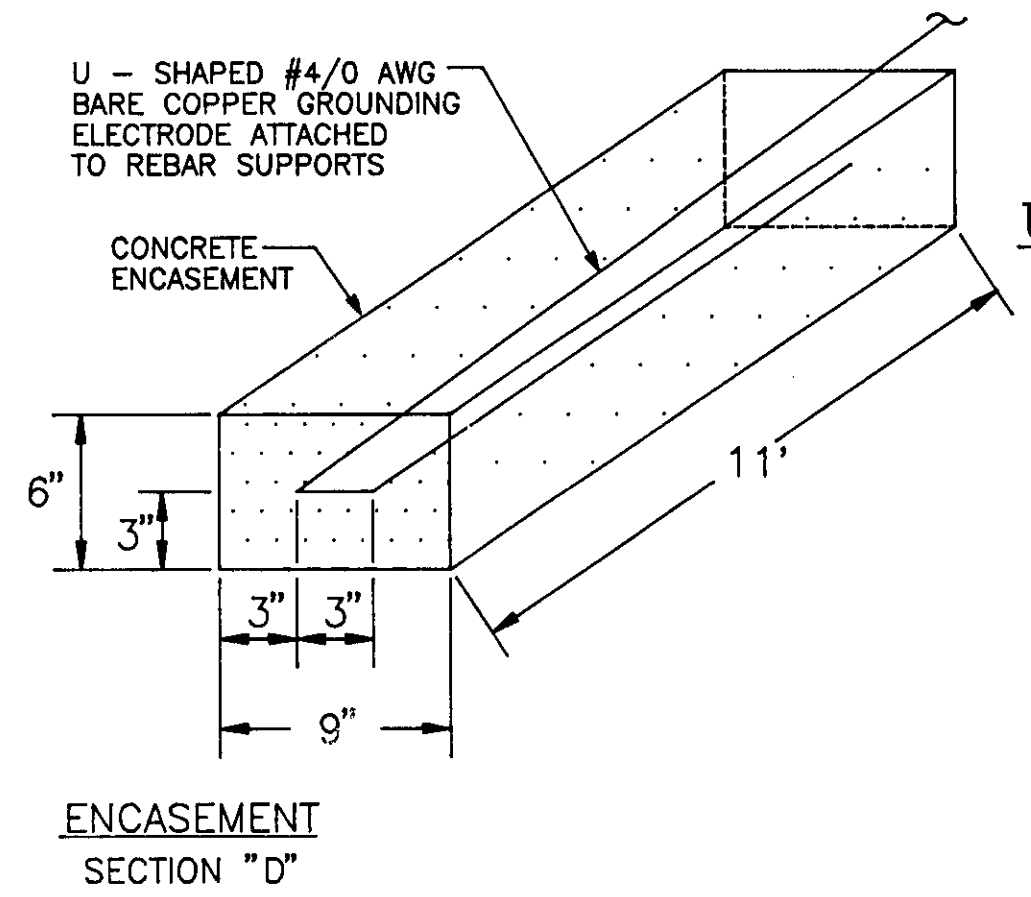
UFFER GROUND DETAIL "D"
NOT TO SCALE



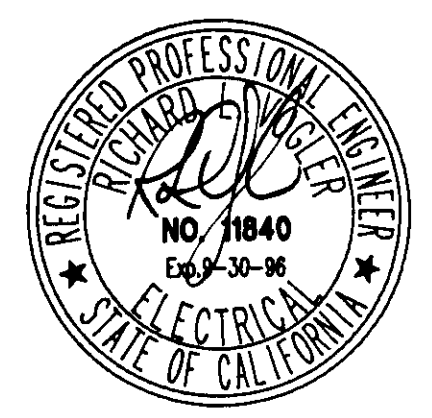
MOTOR CONNECTION DETAIL "E"
NOT TO SCALE



UNDERGROUND CONDUITS DETAIL "F"
(FOR CONDUITS BETWEEN PULL BOXES)
NOT TO SCALE



ENCASEMENT SECTION "D"



SU-2870

FILE: 9404C-E3

RECORD DRAWING

SCALE NONE	DATE AUGUST 1994	DESIGNED RLV	SUBMITTED RECOMMENDED
FILE	DRAWN ZKV	CHECKED RLV	APPROVED

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SACRAMENTO, CALIFORNIA

FLAG CITY
SAN JOAQUIN CO., CALIFORNIA
WASTEWATER TREATMENT FACILITIES

MISCELLANEOUS DETAILS

3123 BROADWAY SACRAMENTO, CA. 95817	
916-457-8144	
DRAWING NUMBER E-3	SHEET NUMBER 33 OF 44

REVISION	DESCRIPTION	BY	APP	DATE

P & I DIAGRAM INSTRUMENT IDENTIFICATION						
CODE LETTER	FIRST LETTER(S)		SUCCEEDING LETTER(S)			
	MEASURED OR INITIATING VARIABLE	MODIFIER	READOUT OR PASSIVE FUNCTION	OUTPUT FUNCTION	MODIFIER	
A	ANALYSIS	DOWN	ALARM	CONTROL	1ST IN SEQUENCE	
B	BURNER FLAME		2ND IN SEQUENCE			
C	CONDUCTIVITY		3RD IN SEQUENCE			
D	DENSITY		4TH IN SEQUENCE			
E	VOLTAGE		5TH IN SEQUENCE			
F	FLOW	RATIO	ELEMENT	CONTROL STATION	HIGH	
G	GENERAL		GLASS			
H	HAND		INDICATE			
I	CURRENT		LIGHT			
J	POWER					CONTROL STATION
K	TIME					
L	LEVEL	SCAN	ORIFICE POINT	SWITCH	LOW	
M	MOISTURE					CONTROL STATION
N	STATUS					
O	OPERATOR					RECORD
P	PRESSURE					
Q	EVENT	TRANSMIT				
R	RESET		VALVE			
S	SPEED	COMPUTE				
T	TEMPERATURE		ACTUATE			
U	MULTIVARIABLE	WELL				
V	VISCOSITY		WELL			
W	WEIGHT	WELL				
X	SWITCH		WELL			
Y	MISCELLANEOUS	WELL				
Z	POSITION		WELL			

MISCELLANEOUS ABBREVIATIONS			
A	AMBER, AMPERES	MTR	MOTOR
AC	ALTERNATING CURRENT	MUX	MULTIPLEXER
AI	ANALOG INPUT	N	NEUTRAL
AIC	AMP INTERRUPTING CAPACITY SYMMETRICAL	NC	NORMALLY CLOSED
ALT	ALTERNATOR	NIC	NOT IN CONTRACT
AM	AMMETER	NO	NORMALLY OPEN
AO	ANALOG OUTPUT	NP	NAMEPLATE
AR	ALARM RELAY	NTS	NOT TO SCALE
AWG	AMERICAN WIRE GAUGE	(N)	NEW
B	BLUE	OL	OVERLOAD
BC	BARE COPPER	ORP	OXIDATION REDUCTION POTENTIAL
BOD	BIOLOGICAL OXYGEN DEMAND	P	PHASE, POLE
C	CONDUIT	PB	PUSHBUTTON
CAP	CAPACITOR	PBX	PULL BOX
CB	CIRCUIT BREAKER	PEC	PHOTO ELECTRIC CELL
CKT	CIRCUIT	PF	POWER FACTOR
COAX	COAXIAL CABLE	PFR	POWER (PHASE) FAIL RELAY
COMM	COMMUNICATION PORT	PH	HYDROGEN ION CONCENTRATION
CPT	CONTROL POWER TRANSFORMER	PLC	PROGRAMMABLE LOGIC CONTROLLER
CR	CONTROL RELAY	PMP	PUMP
CT	CURRENT TRANSFORMER	PNL	PANEL
CU	COPPER	POT	POTENTIOMETER
DC	DIRECT CURRENT	PR	PAIR, TWISTED & SHIELDED CABLE
DET	DETAIL	PRESS	PRESSURE
DI	DIGITAL INPUT	PRI	PRIMARY
DIAG	DIAGRAM	PROVIDE	FURNISH, INSTALL & CONNECT
DISC	DISCONNECT	PRR	POWER RELAY
DO	DIGITAL OUTPUT	PS	PRESSURE SWITCH
CR	CONTROL RELAY	PT	POTENTIAL TRANSFORMER
CT	CURRENT TRANSFORMER	PTT	PUSH TO TEST
CU	COPPER	PV	PROCESS VARIABLE
DC	DIRECT CURRENT	PVC	POLYVINYLCHLORIDE
DET	DETAIL	PWR	POWER
DI	DIGITAL INPUT	R	RED
DIAG	DIAGRAM	RCT	REPEAT CYCLE TIMER
DISC	DISCONNECT	REF	REFERENCE
DO	DIGITAL OUTPUT	RMS	ROOT MEAN SQUARED
CR	CONTROL RELAY	RT	RESET TIMER
CT	CURRENT TRANSFORMER	RTD	RESISTANCE TEMPERATURE DETECTOR
CU	COPPER	RTM	RUN TIME METER
DC	DIRECT CURRENT	RVNR	REDUCED VOLTAGE NON-REVERSING
DET	DETAIL	(R)	REWIRE, RELOCATE, REVISE, REUSE
DI	DIGITAL INPUT	S	SWITCH
DIAG	DIAGRAM	SCH	SCHEDULE
DISC	DISCONNECT	SEC	SECONDARY
DO	DIGITAL OUTPUT	SECS	SECONDS
CR	CONTROL RELAY	SEL	SELECTOR
CT	CURRENT TRANSFORMER	SP	SET POINT
CU	COPPER	SR	SENSING RELAY
DC	DIRECT CURRENT	SS	SOFT STARTER
DET	DETAIL	SV	SOLENOID VALVE
DI	DIGITAL INPUT	SW	SWITCH
DIAG	DIAGRAM	SWBD	SWITCHBOARD
DISC	DISCONNECT	T	TRIP
DO	DIGITAL OUTPUT	TB	TERMINAL BLOCK
CR	CONTROL RELAY	TC	TIME CLOCK
CT	CURRENT TRANSFORMER	TDOD	TIME DELAY ON DE-ENERGIZATION
CU	COPPER	TDOE	TIME DELAY ON ENERGIZATION
DC	DIRECT CURRENT	TEL	TELEMETRY
DET	DETAIL	TELCO	TELEPHONE COMPANY
DI	DIGITAL INPUT	TM	THERMAL MAGNETIC
DIAG	DIAGRAM	TEMP	TEMPERATURE
DISC	DISCONNECT	TOC	TOTAL ORGANIC CARBON
DO	DIGITAL OUTPUT	TR	TIME DELAY RELAY
CR	CONTROL RELAY	TRIAD	TWISTED & SHIELDED 3 CONDUCTOR
CT	CURRENT TRANSFORMER	TS	TEMPERATURE SWITCH
CU	COPPER	TSPR	TWISTED & SHIELDED PAIR
DC	DIRECT CURRENT	TYP	TYPICAL
DET	DETAIL	UG	UNDERGROUND
DI	DIGITAL INPUT	V	VOLTAGE
DIAG	DIAGRAM	VA	VOLT AMPS
DISC	DISCONNECT	VAR	VOLT AMP REACTIVE
DO	DIGITAL OUTPUT	VFD	VARIABLE FREQUENCY DRIVE
CR	CONTROL RELAY	VLV	VALVE
CT	CURRENT TRANSFORMER	VM	VOLTMETER
CU	COPPER	W	WHITE, WATTS
DC	DIRECT CURRENT	WHM	WATT HOURMETER
DET	DETAIL	WM	WATTMETER
DI	DIGITAL INPUT	WP	WEATHER PROOF
DIAG	DIAGRAM	WS	TORQUE SWITCH
DISC	DISCONNECT	XFMR	TRANSFORMER
DO	DIGITAL OUTPUT	XS	MISCELLANEOUS SWITCH
CR	CONTROL RELAY	Y	YELLOW
CT	CURRENT TRANSFORMER	Z	IMPEDANCE
CU	COPPER	ZS	LIMIT SWITCH

LIGHT FIXTURE SCHEDULE

CODE LETTER	FIXTURE TYPE	FIXTURE LAMPS	WATTS/FIXTURE	MANUFACTURER OR APPROVED EQUAL	MOUNTING ARRANGEMENT	NOTES
A	FLUORESCENT, 4' WRAP AROUND, ACRYLIC, PRISMATIC DIFFUSER RAPID START / U.L. LISTED	F40T12/CW 4 EACH	133	LITHONIA LB-440-A ENERGY SAVER	CEILING SURFACE	WHERE INDICATED, TWO LAMPS ARE TO BE CONTROLLED BY ONE SWITCH, AND THE OTHER TWO ARE TO BE SWITCHED INDEPENDENTLY
B	INCANDESCENT, ROUND DRUM, 13", PUSHBUTTON RELEASE DOOR U.L. LISTED	75W A19 2 EACH	150	LITHONIA SP13	CEILING SURFACE	
C	FLUORESCENT, 8" INDUSTRIAL STANDARD CHANNEL U.L. LISTED	F96T12/CW	75	LITHONIA C-196	CEILING SURFACE	
D	INCANDESCENT, 5" x 8" WALL UNIT VANDAL RESISTANT	100W A19	100	LUMINAIRE WVP	OUTDOOR WALL MOUNT	
E	OUTDOOR AREA LIGHT STANDARD CANOPY 16" REFRACTOR WITH PHOTOCELL UNIT	250 HPS	40	HOLOPHANE CW-3A250HP POLE: CA-RT-16	ROUND TAPERED ALUMINUM POLE 16' HEIGHT	PROVIDE BASE ANCHOR BOLTS AND BASE CAPS



3123 BROADWAY
SACRAMENTO, CA. 95817

TEEM 916-457-8144

DRAWING NUMBER **E-2** SHEET NUMBER **32 of 44**

FILE: 9404C-E2

SCALE NONE	DATE AUGUST 1994	DESIGNED <u>RLV</u>	SUBMITTED _____
	FILE	DRAWN <u>ZKV</u>	RECOMMENDED _____
		CHECKED <u>RLV</u>	APPROVED _____

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CONSULTING ENGINEERS
SACRAMENTO, CALIFORNIA

FLAG CITY
SAN JOAQUIN CO. CALIFORNIA
WASTEWATER TREATMENT FACILITIES

ELECTRICAL & INSTRUMENTATION
ABBREVIATIONS

REVISION	DESCRIPTION	BY	APP	DATE

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
SWITCHES - PROCESS		DEVICES - RELAY		COMPONENTS		WIRING - CONNECTIONS	
	FLOW SWITCH - CLOSSES UPON INCREASING FLOW		CONTROL RELAY CR1 WITH NORMALLY OPEN CONTACT ON LINE 28 & NORMALLY CLOSED CONTACT ON LINE 111		RESISTOR		PANEL OR EQUIPMENT WIRING
	FLOW SWITCH - OPENS UPON INCREASING FLOW		TIME DELAY RELAY TR2 - ADJUSTABLE TIME DELAY RANGE & SETTING AS SHOWN		POTENTIOMETER		FIELD WIRING
	LEVEL SWITCH - CLOSSES UPON INCREASING LEVEL		TIME DELAY ON ENERGIZATION		CAPACITOR, FIXED		EXISTING WIRING
	LEVEL SWITCH - OPENS UPON INCREASING LEVEL		TIME DELAY ON DE-ENERGIZATION		CAPACITOR, ADJUSTABLE		CONDUCTORS - NOT CONNECTED
	PRESSURE SWITCH - CLOSSES UPON INCREASING PRESSURE (INCREASING VACUUM)		CONTACTOR OR STARTER M1		DIODE		CONDUCTORS - CONNECTED
	PRESSURE SWITCH - OPENS UPON INCREASING PRESSURE (INCREASING VACUUM)		SOLENOID		DIODE, ZENER		GROUND
	TEMPERATURE SWITCH - CLOSSES UPON INCREASING TEMPERATURE		NORMALLY OPEN, RELAY CONTACT - ACTUATED BY RELAY CR1 COIL LOCATED ON LINE 105		VARISTOR TRANSIENT VOLTAGE SUPPRESSOR		CHASSIS OR FRAME GROUND
	TEMPERATURE SWITCH - OPENS UPON INCREASING TEMPERATURE		NORMALLY CLOSED, RELAY CONTACT - ACTUATED BY RELAY CR1		VOLTAGE SURGE SUPPRESSOR, AC		PLUG AND RECEPTACLE
	LIMIT SWITCH - CLOSSES AT SET LIMIT		NORMALLY OPEN, TIME DELAY RELAY CONTACT - CONTACT CLOSES AFTER TR2 IS ENERGIZED		LIGHT EMITTING DIODE		INCOMING LINE
	LIMIT SWITCH - OPENS AT SET LIMIT		NORMALLY CLOSED, TIME DELAY RELAY CONTACT - CONTACT OPENS AFTER TR2 IS ENERGIZED		TRANSISTOR		TERMINAL BLOCKS
	PROXIMITY SWITCH - CLOSSES UPON DECREASING DISTANCE		NORMALLY OPEN, TIME DELAY RELAY CONTACT - CONTACT OPENS AFTER TR2 IS DE-ENERGIZED		RESISTANCE TEMPERATURE DETECTOR (RTD)		TERMINALS
	PROXIMITY SWITCH - OPENS UPON DECREASING DISTANCE		NORMALLY CLOSED, TIME DELAY RELAY CONTACT - CONTACT CLOSES AFTER TR2 IS DE-ENERGIZED		THERMOCOUPLE (T/C)		SHIELDED CABLE
	TORQUE SWITCH - CLOSSES UPON INCREASING TORQUE		NORMALLY OPEN, TIME DELAY RELAY CONTACT - CONTACT CLOSES AFTER TR2 IS DE-ENERGIZED		THERMISTOR	PLAN - SYMBOLS	
	TORQUE SWITCH - OPENS UPON INCREASING TORQUE		NORMALLY CLOSED, TIME DELAY RELAY CONTACT - CONTACT CLOSES AFTER TR2 IS DE-ENERGIZED		AUDIBLE ALARM		CONDUIT, EXPOSED
SWITCHES - OPERATOR		DEVICES - FRONT PANEL		DEVICES - PROTECTIVE			CONDUIT, IN SLAB OR BELOW GRADE
	TOGGLE OR DISCONNECT SWITCH		INDICATING LIGHT, LETTER 'X' INDICATES COLOR: R=RED, G=GREEN, A=AMBER, V=WHITE, Y=YELLOW, B=BLUE		TACHOMETER GENERATOR		CONDUIT, EXISTING
	PUSHBUTTON - NORMALLY OPEN, MOMENTARY ACTION		INDICATING LIGHT, PUSH TO TEST		BATTERY		CONDUIT, CONCEALED IN WALL OR CEILING
	PUSHBUTTON - NORMALLY CLOSED, MOMENTARY ACTION		AMP METER		HEATER		CONDUIT STUBBED OUT & CAPPED
	PUSHBUTTON, MECHANICALLY INTERLOCKED, DOUBLE CIRCUIT - NORMALLY CLOSED AND NORMALLY OPEN, MAINTAINED ACTION		VOLT METER		3 PHASE HEATER		CONDUIT STUBBED OUT & CAPPED
	SELECTOR SWITCH, 3 POSITION - CONTACT STATUS SHOWN EXISTS AT POSITION OF H-HAND, O-OFF, OR A-AUTO		ELAPSED TIME METER		3 PHASE MOTOR # = MOTOR HP		CONDUIT STUBBED OUT & CAPPED
	SELECTOR SWITCH, 2 POSITION - CONTACT STATUS SHOWN EXISTS AT POSITION AS SHOWN		RUN TIME METER		SINGLE PHASE MOTOR		CONDUIT STUBBED OUT & CAPPED
			MULTI-POSITION SWITCH WHERE LETTER 'X' IS FUNCTION: A=AMP, V=VOLT		TRANSFORMER		CONDUIT STUBBED OUT & CAPPED
					DISCONNECT, 3 POLE		CONDUIT STUBBED OUT & CAPPED
					CIRCUIT BREAKER, 3 POLE THERMAL MAGNETIC (TM) OR MOTOR CIRCUIT PROTECT (MCP)		CONDUIT STUBBED OUT & CAPPED
					THERMAL OVERLOAD CONTACT		CONDUIT STUBBED OUT & CAPPED
					THERMAL OVERLOAD ELEMENT		CONDUIT STUBBED OUT & CAPPED
					FUSE WITH BLOWN FUSE INDICATING LIGHT		CONDUIT STUBBED OUT & CAPPED
					FUSE		CONDUIT STUBBED OUT & CAPPED
					TELEPHONE JACK		CONDUIT STUBBED OUT & CAPPED



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TEEM 916-457-8144

FILE: 9404C-E1

SCALE NONE	DATE AUGUST 1994	DESIGNED RLV	SUBMITTED
	FILE	DRAWN ZKV	RECOMMENDED
		CHECKED RLV	APPROVED

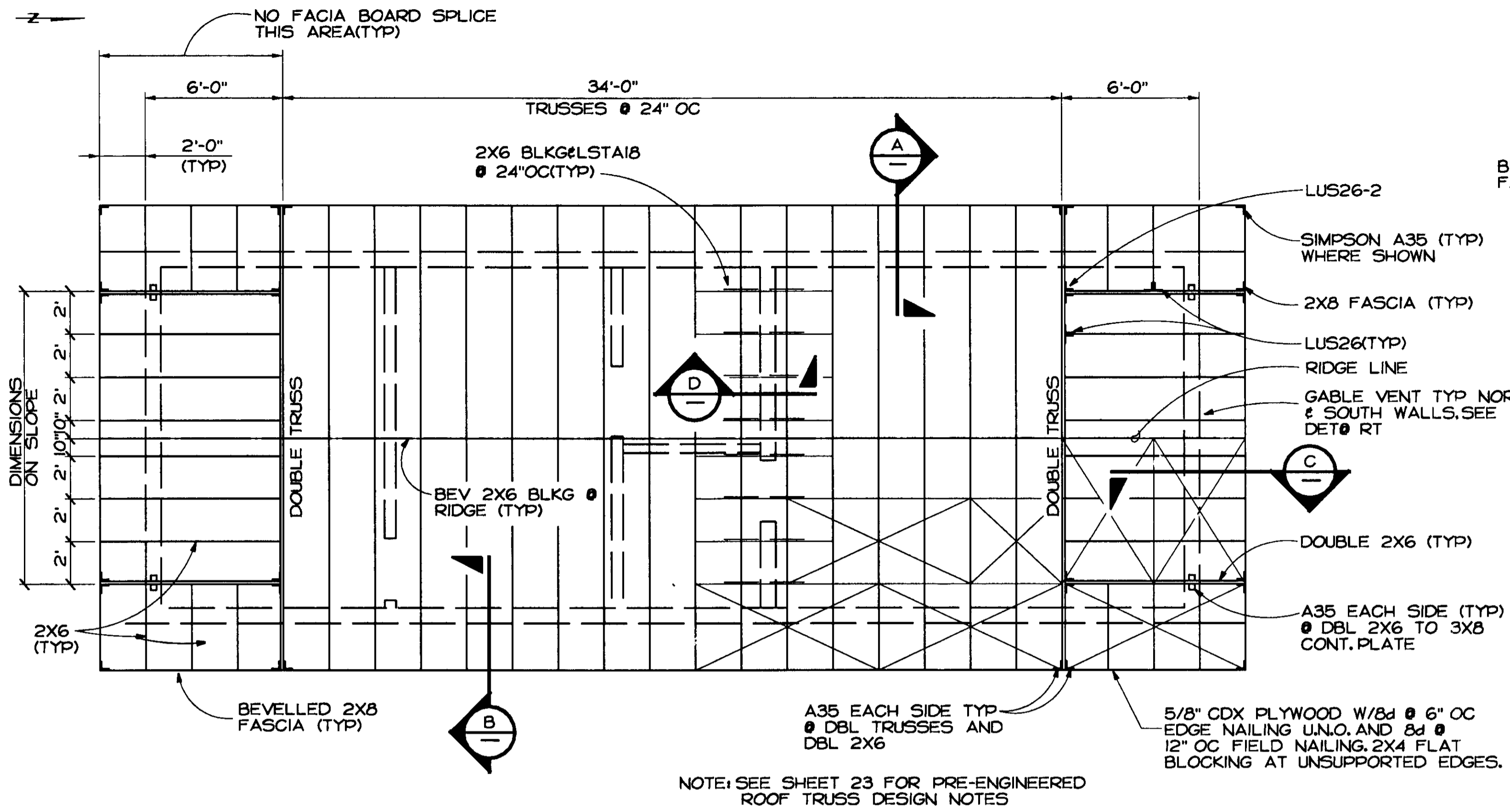
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SACRAMENTO, CALIFORNIA

FLAG CITY
SAN JOAQUIN CO., CALIFORNIA
WASTEWATER TREATMENT FACILITIES

ELECTRICAL & INSTRUMENTATION
SYMBOLS

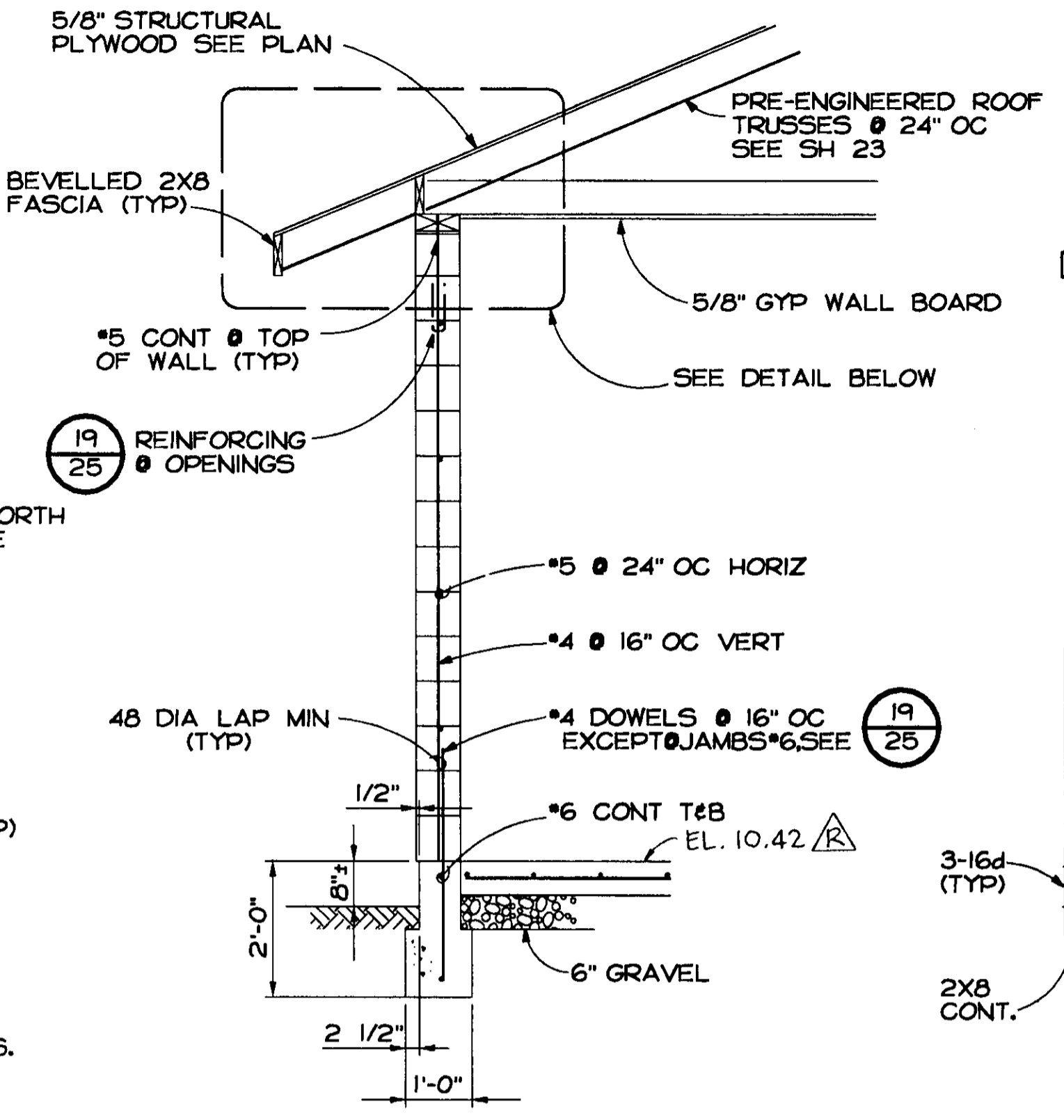
DRAWING NUMBER E-1	SHEET NUMBER 31 of 44
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REVISION	DESCRIPTION	BY	APP	DATE
1	RECORD DWG. CHANGES INCORP.	DCL	RMD	6-95



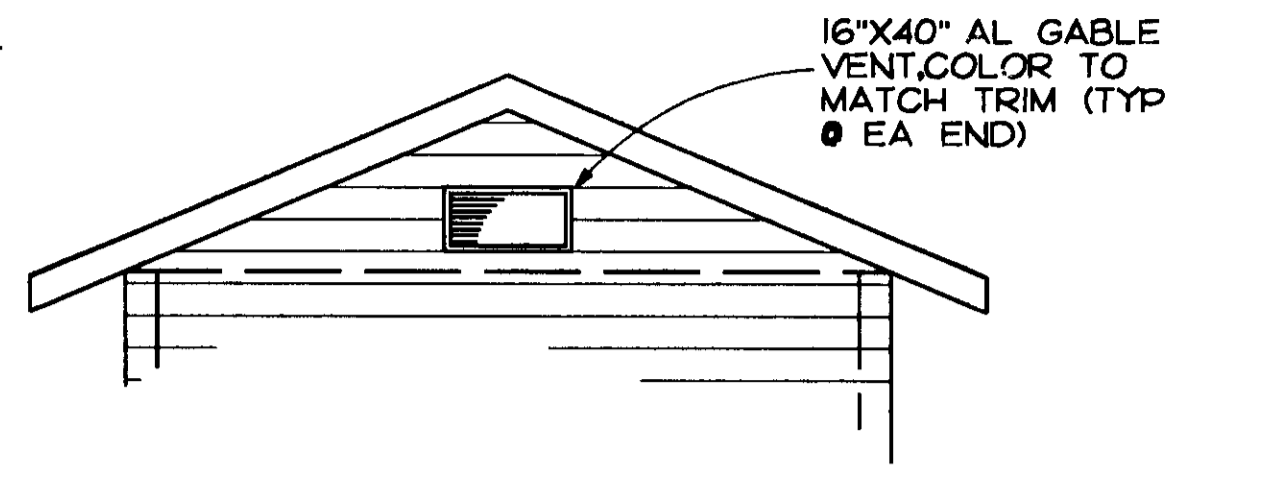
ROOF FRAMING PLAN

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



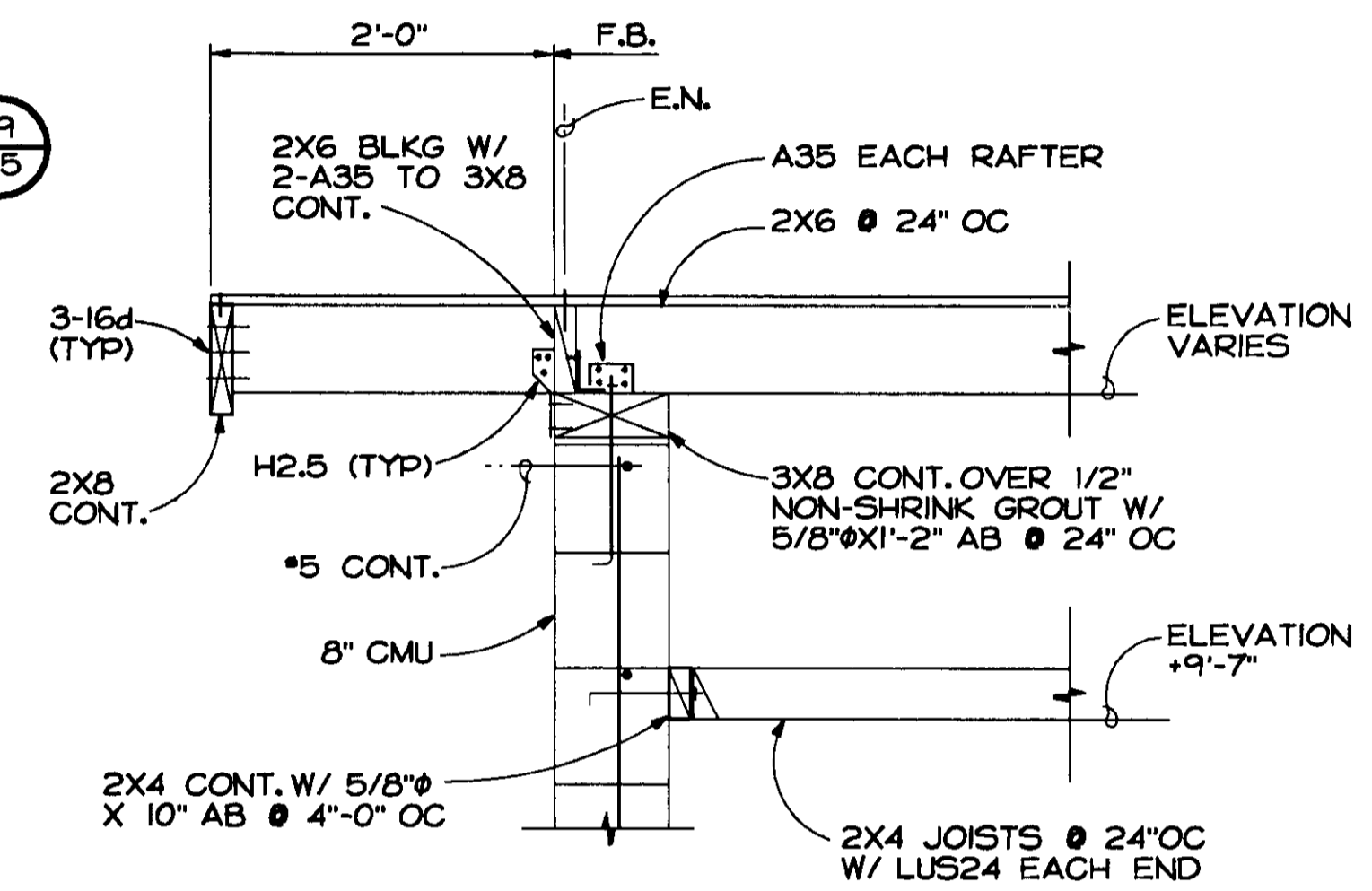
SECTION A

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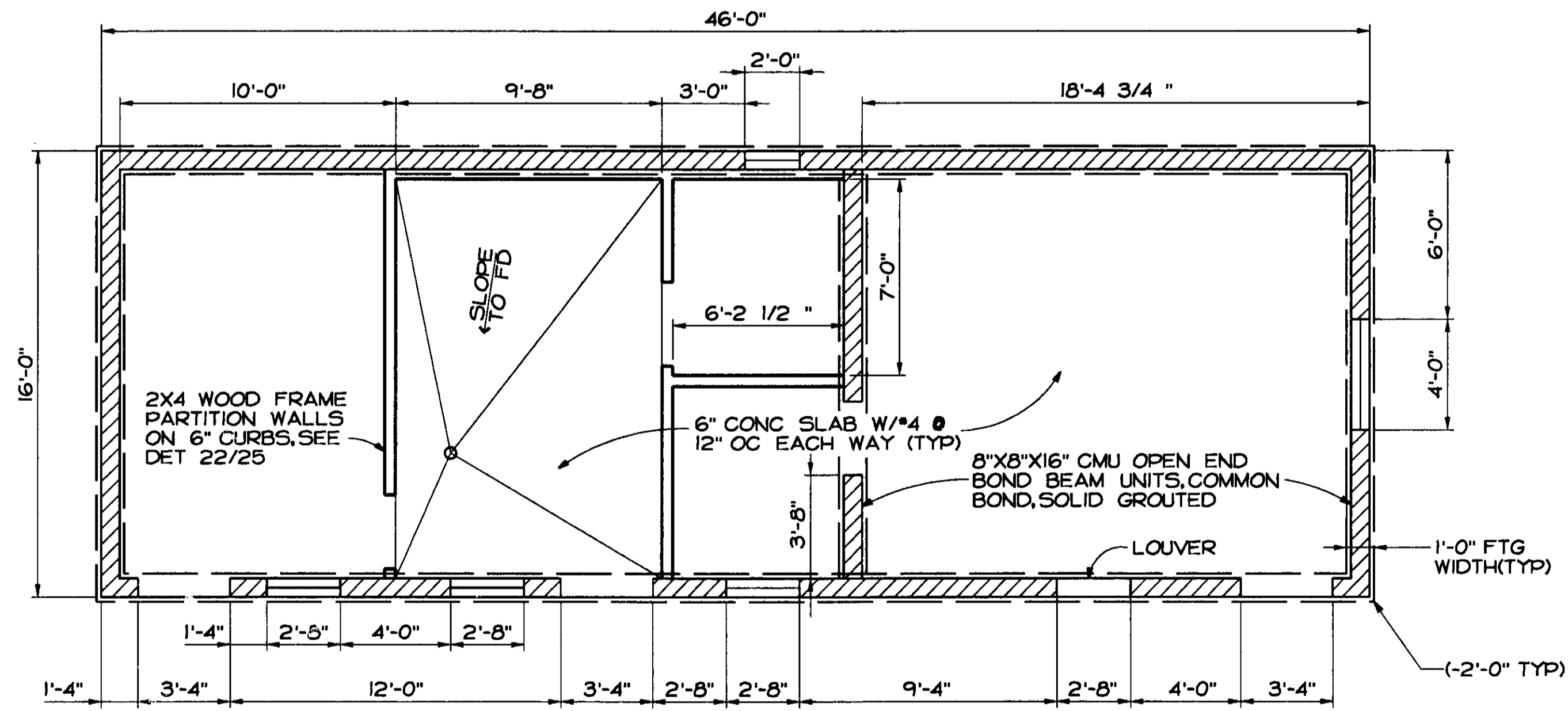
GABLE DETAIL

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



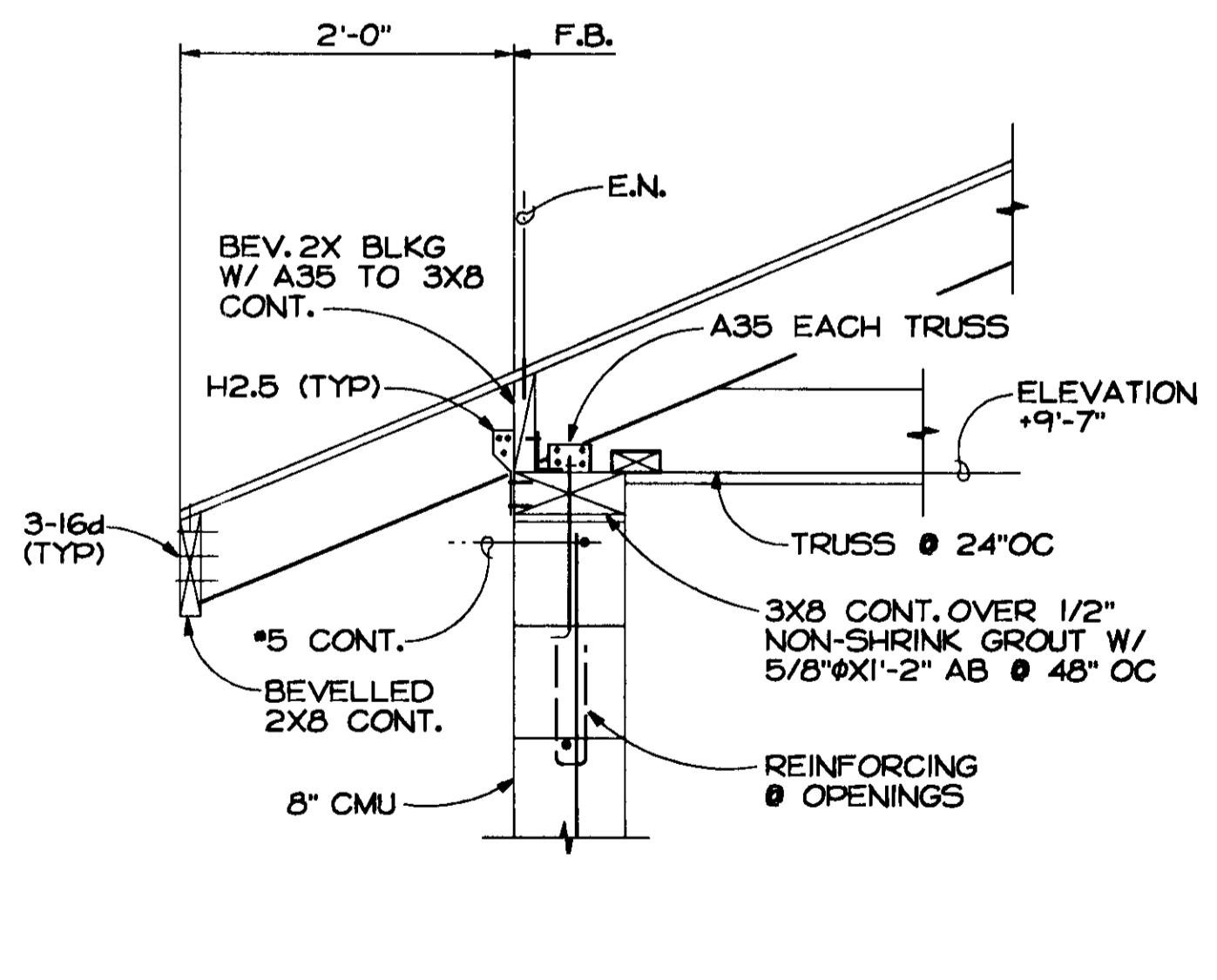
SECTION C

SCALE: 1" = 1'-0"



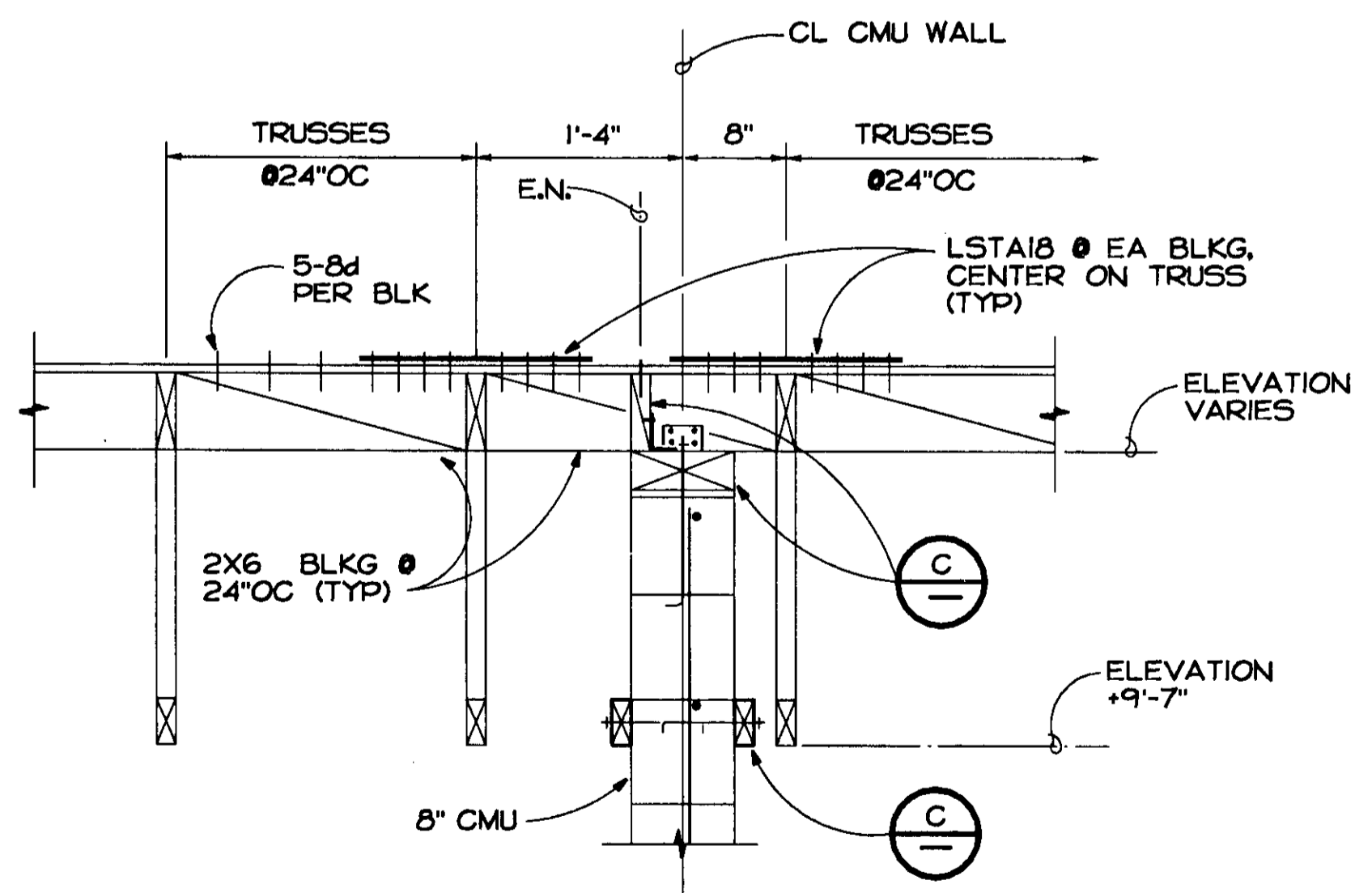
FOUNDATION PLAN

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



SECTION B

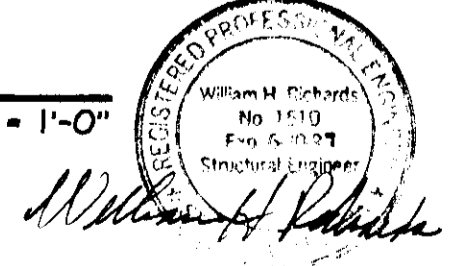
SCALE: 1" = 1'-0"



SECTION D

SCALE: 1" = 1'-0"

SU-2873

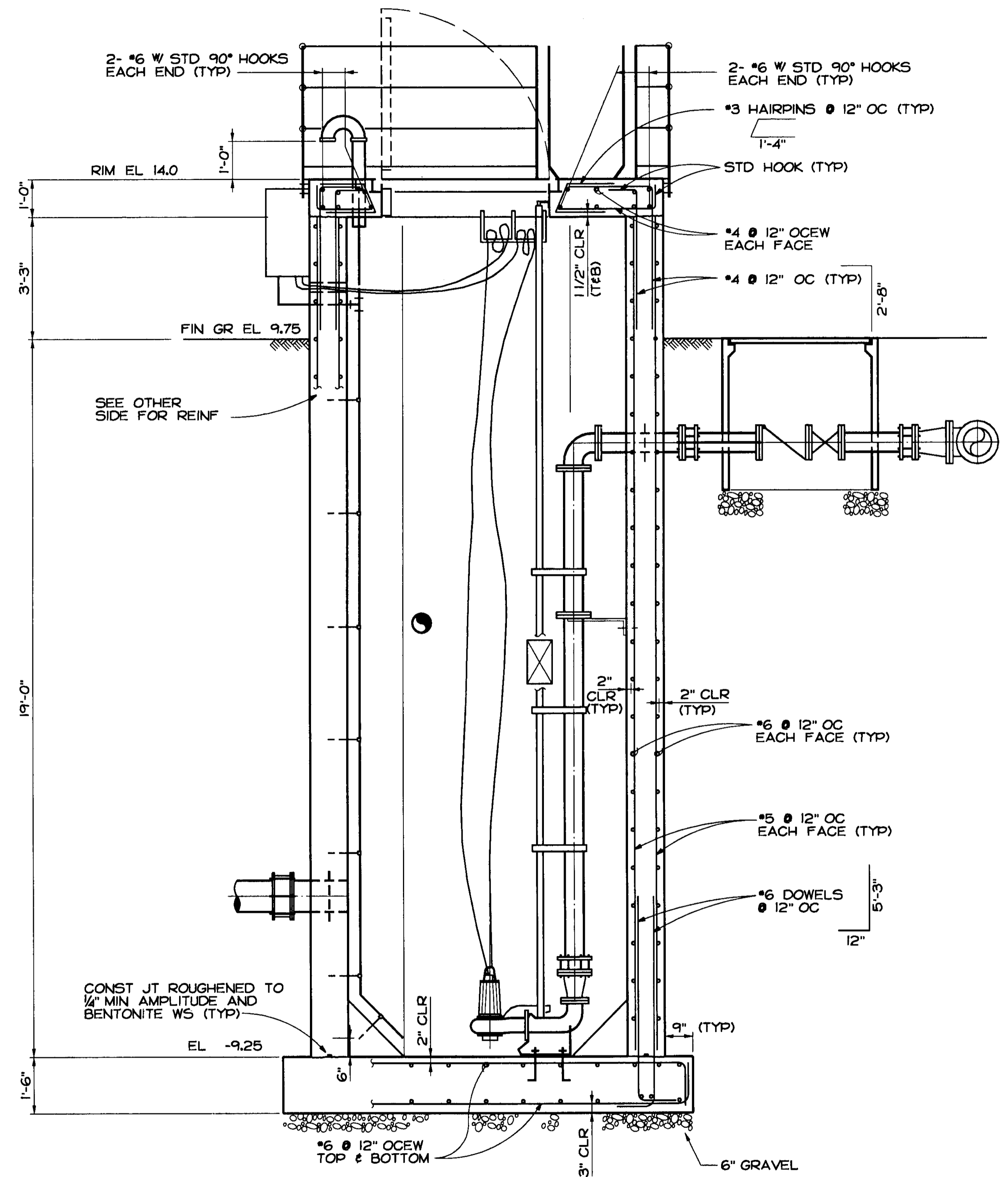


RECORD DRAWING

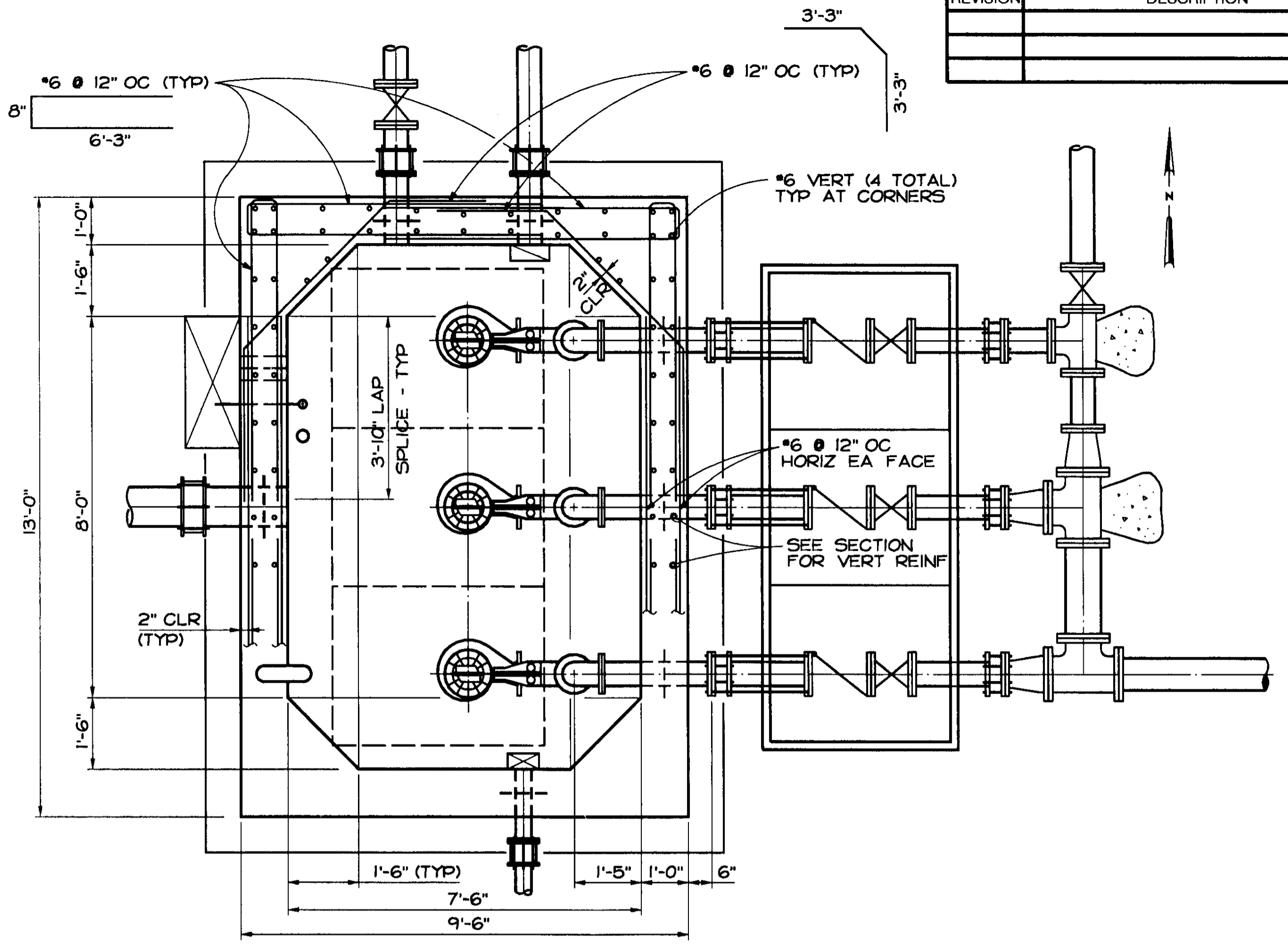
SCALE AS SHOWN	DATE AUGUST 1994	DESIGNED STH	SUBMITTED		FLAG CITY SAN JOAQUIN CO., CALIFORNIA WASTEWATER TREATMENT FACILITIES	CONTROL BUILDING STRUCTURAL PLANS & SECTIONS	DRAWING NUMBER	SHEET NUMBER
	FILE 93423	DRAWN RRR	RECOMMENDED					
		CHECKED WHR	APPROVED					30 OF 44

A B C D E F G H

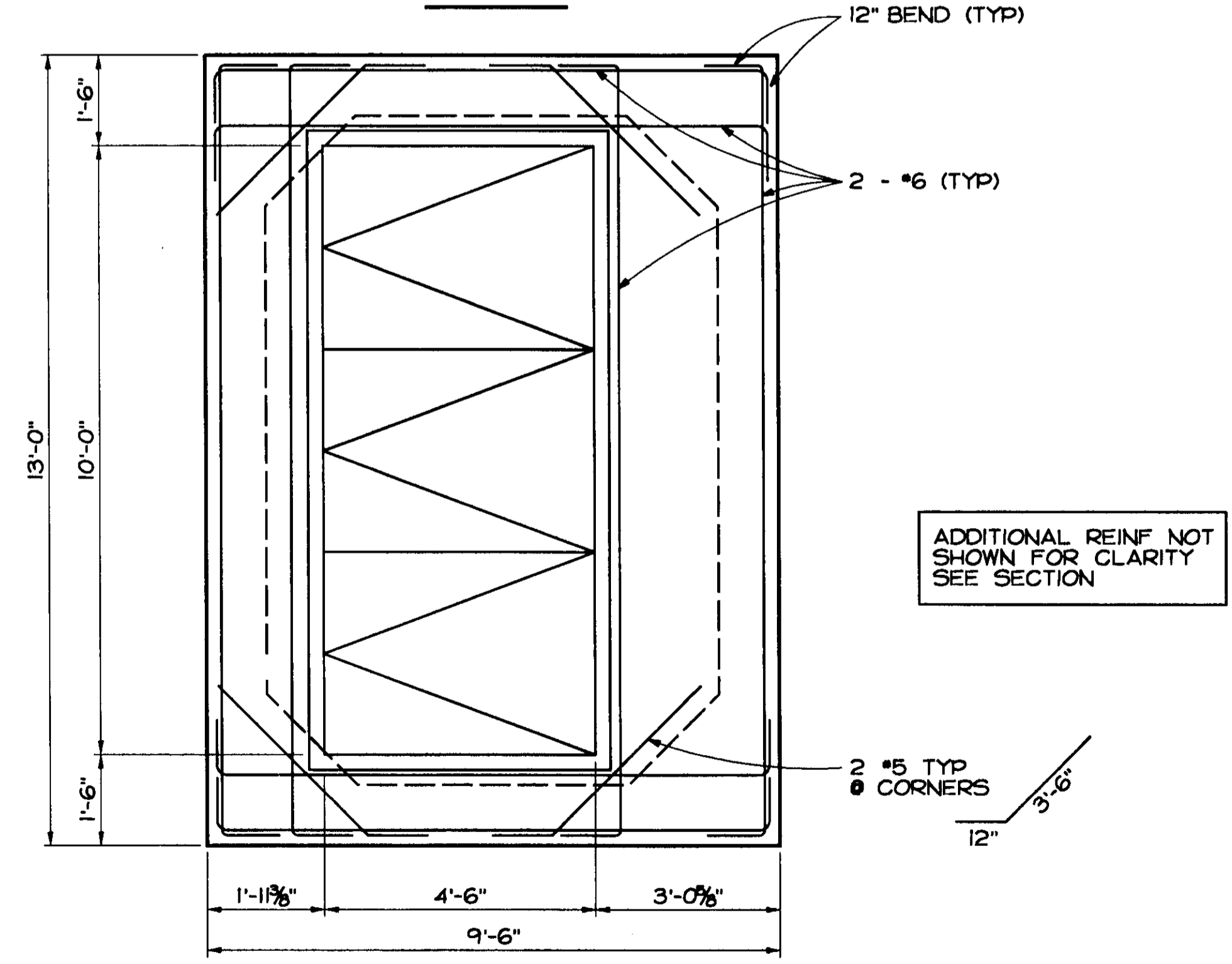
REVISION	DESCRIPTION	BY	APP	DATE



SECTION



PLAN



TOP PLAN

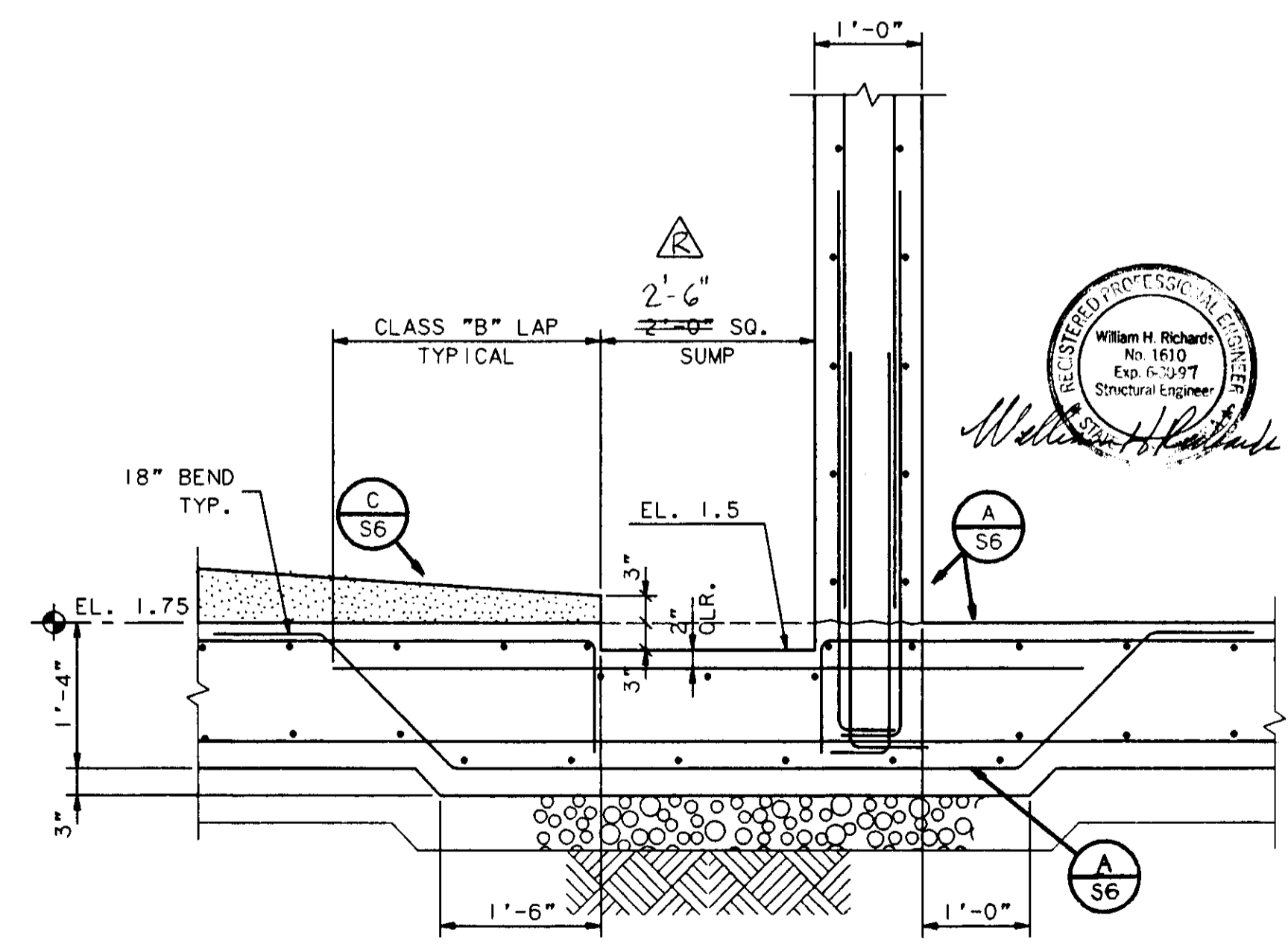
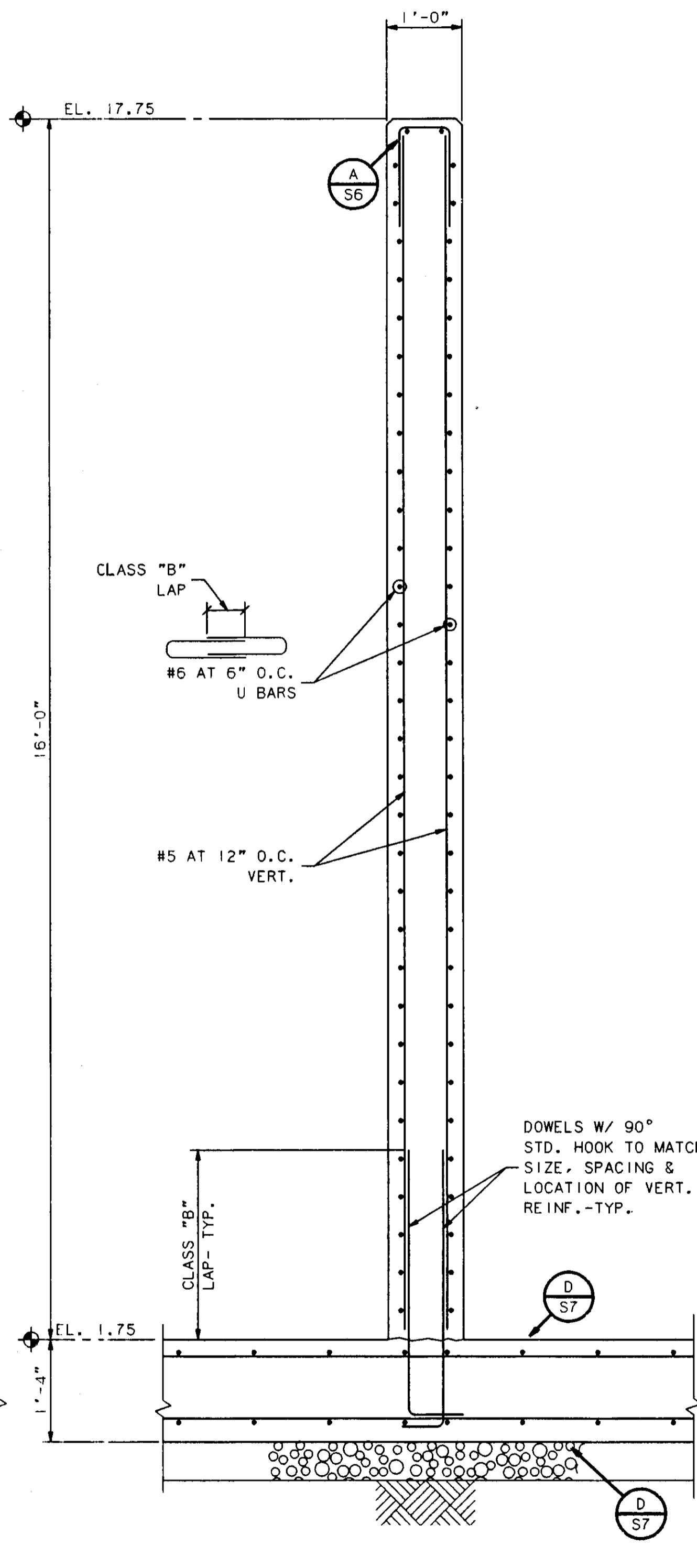
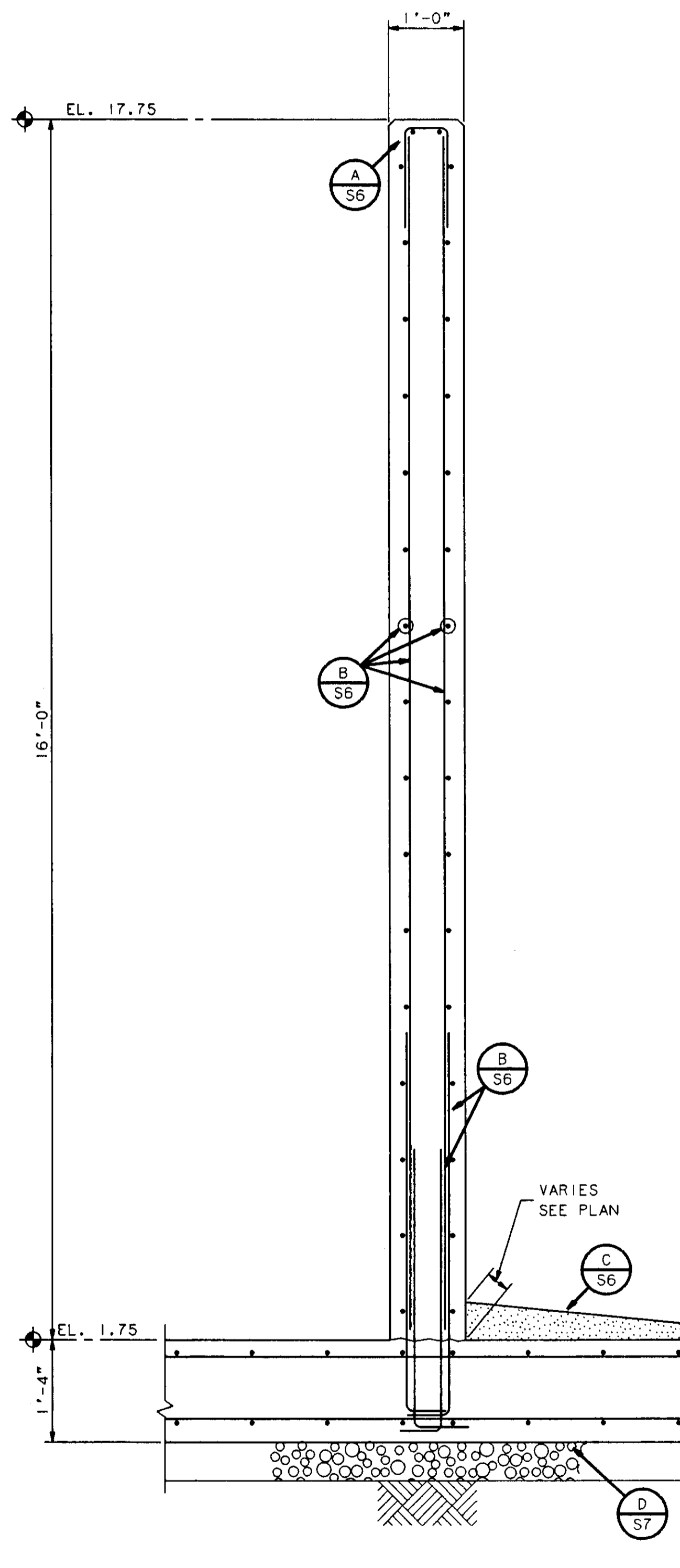
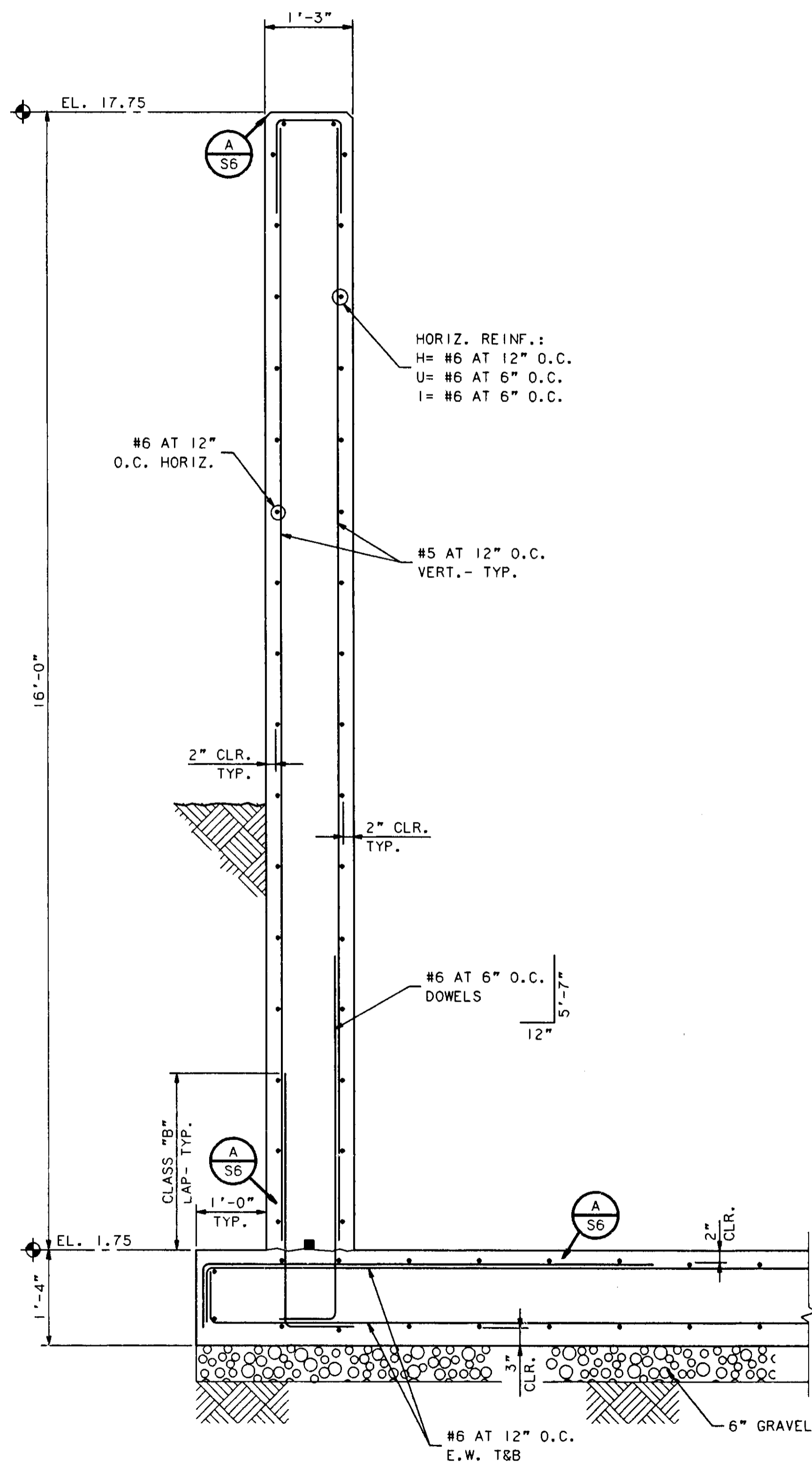


RECORD DRAWING

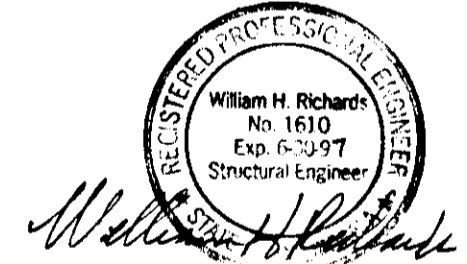
SU-2874

SCALE 1/2" = 1'-0"	DATE AUGUST 1994	DESIGNED STH	SUBMITTED		FLAG CITY SAN JOAQUIN CO., CALIFORNIA WASTEWATER TREATMENT FACILITIES	RAW SEWAGE PUMP STATION STRUCTURAL PLAN AND SECTION	DRAWING NUMBER	SHEET NUMBER
	FILE 93423	DRAWN MVW	RECOMMENDED					

REVISION	DESCRIPTION	BY	APP	DATE
A	RECORD DWG. CHANGES INCORP.	DCL	RMD	6-95



SU-2875



RECORD DRAWING

SCALE AS NOTED	DATE AUGUST 1994	DESIGNED STH	SUBMITTED
FILE 93423	DRAWN LEL	CHECKED WHR	RECOMMENDED
			APPROVED

DEWANTE AND STOWELL
 CONSULTING ENGINEERS
 SACRAMENTO, CALIFORNIA

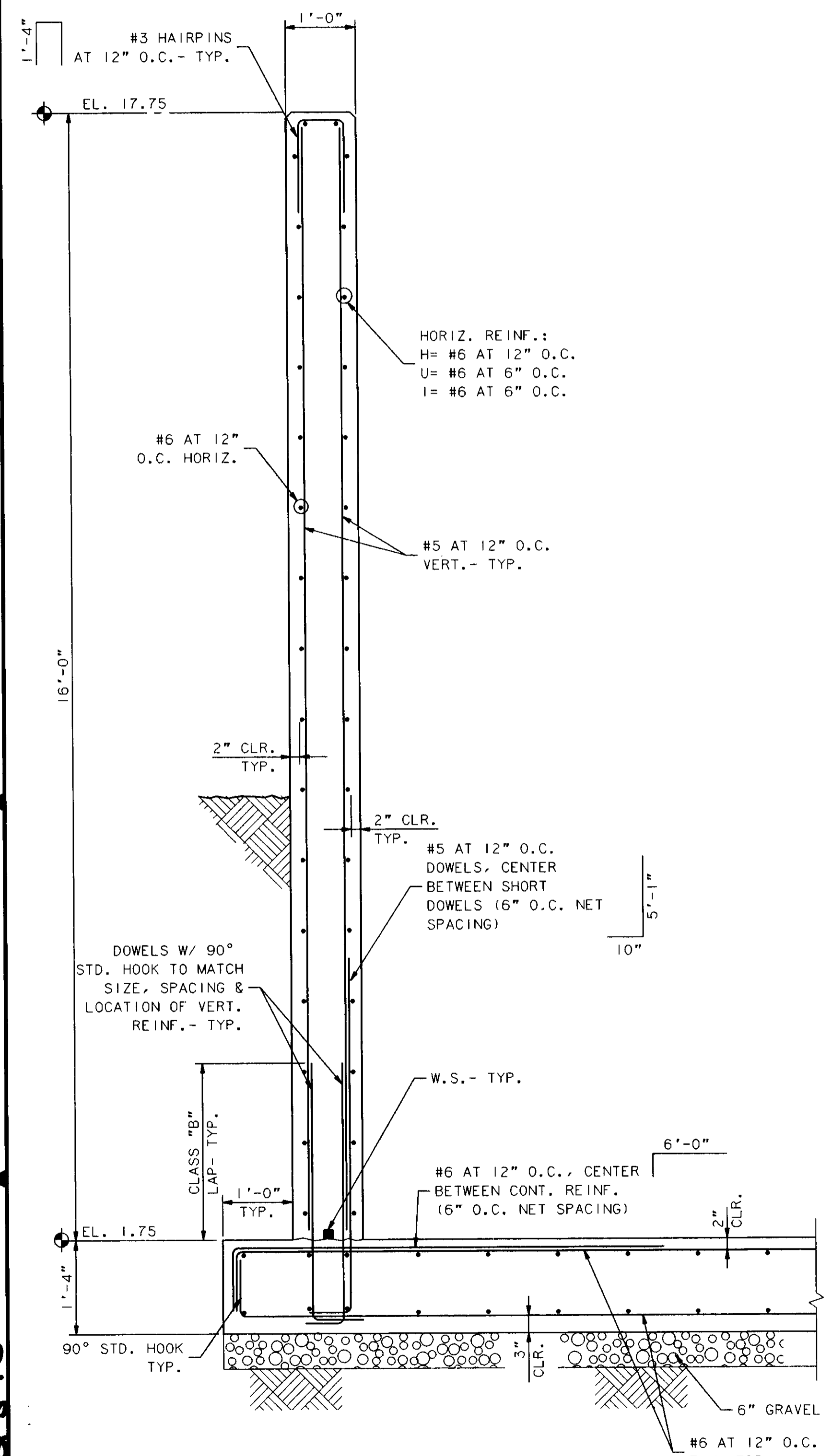
FLAG CITY
 SAN JOAQUIN CO., CALIFORNIA
WASTEWATER TREATMENT FACILITIES

**AERATION BASIN, CLARIFIER, SURGE BASIN
 AND AEROBIC DIGESTER
 SECTIONS**

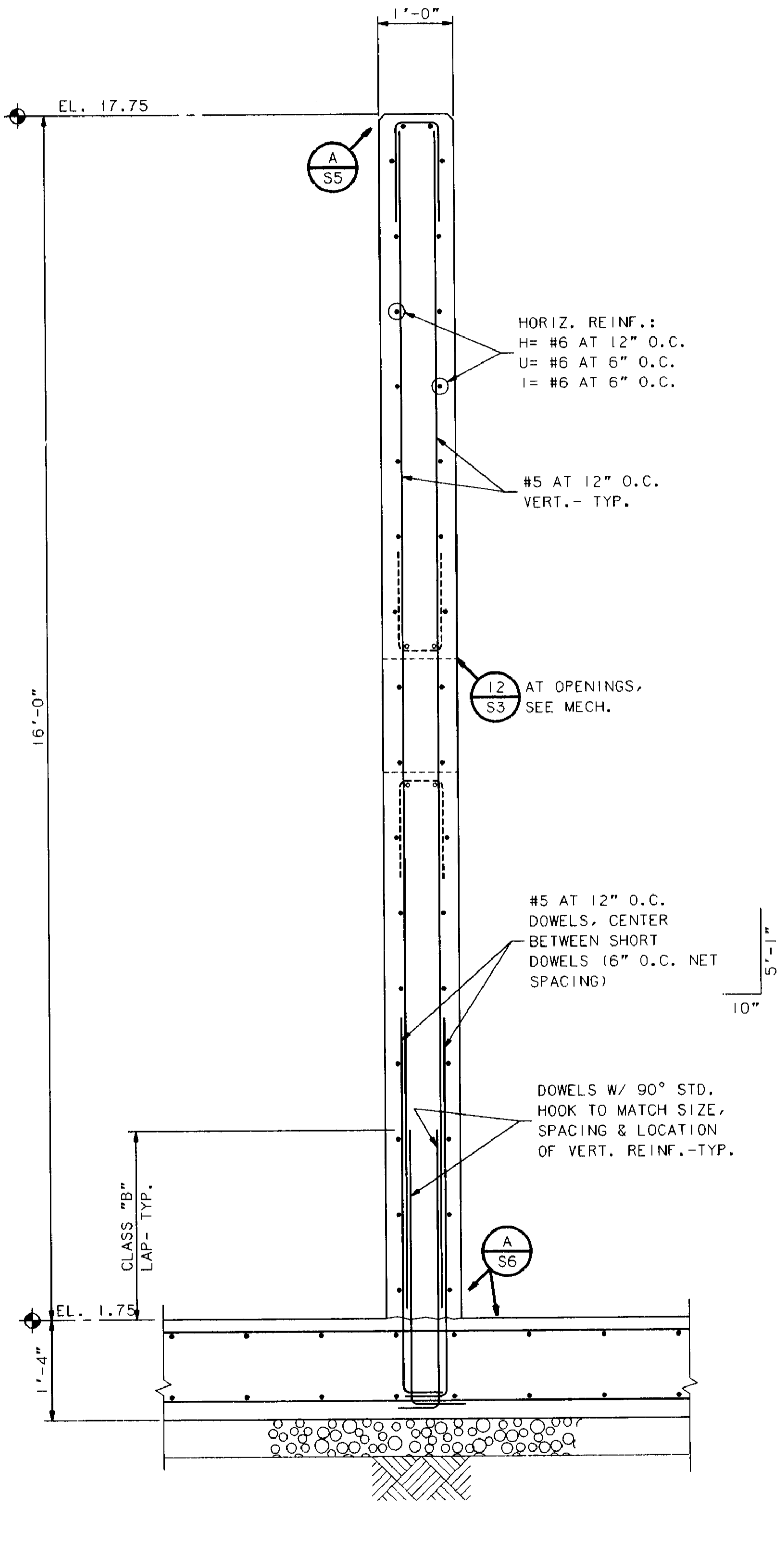
DRAWING NUMBER S7	SHEET NUMBER 28 OF 44
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Cole/Yee/Schubert & Associates
 Structural Engineers, Incorporated
 Suite 200 2500 Venture Oaks Way
 Sacramento, Ca. 95833 (916) 321-2020

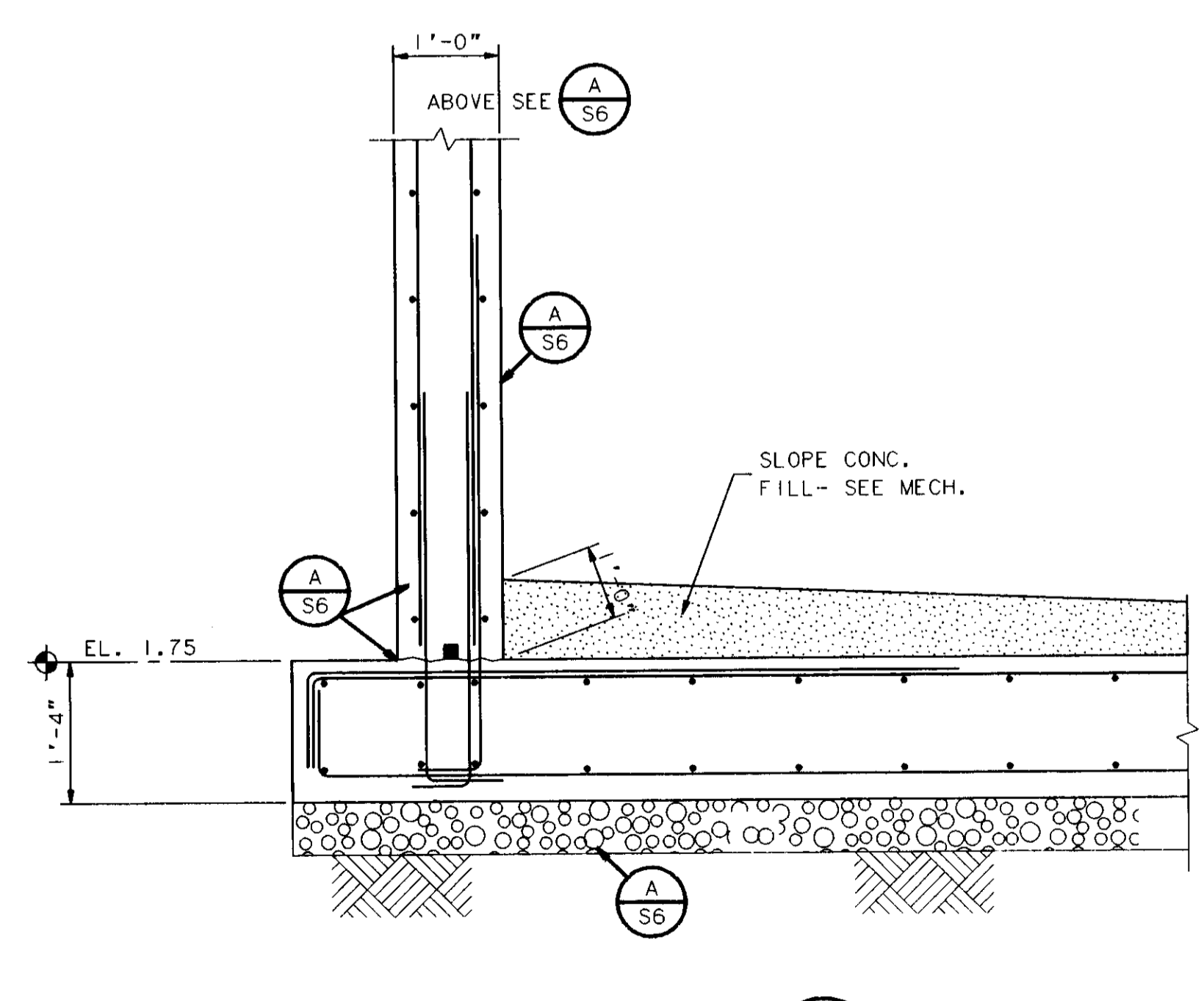
REVISION	DESCRIPTION	BY	APP	DATE



SECTION A S5
1/8" = 1'-0"

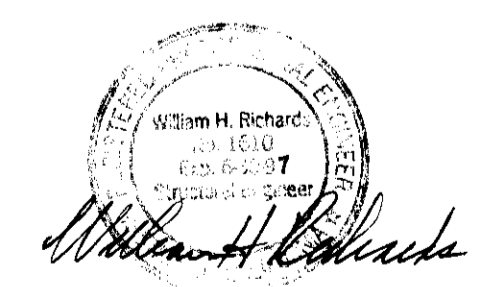


SECTION B S5
3/4" = 1'-0"



SECTION C S5
3/4" = 1'-0"

SU-2876



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 Structural Engineers, Incorporated
 Suite 200 2500 Venture Oaks Way
 Sacramento, Ca. 95833 916/920-2020

SCALE AS NOTED	DATE AUGUST 1994	DESIGNED STH	SUBMITTED
	FILE 93423	DRAWN LEL	RECOMMENDED
		CHECKED WHR	APPROVED

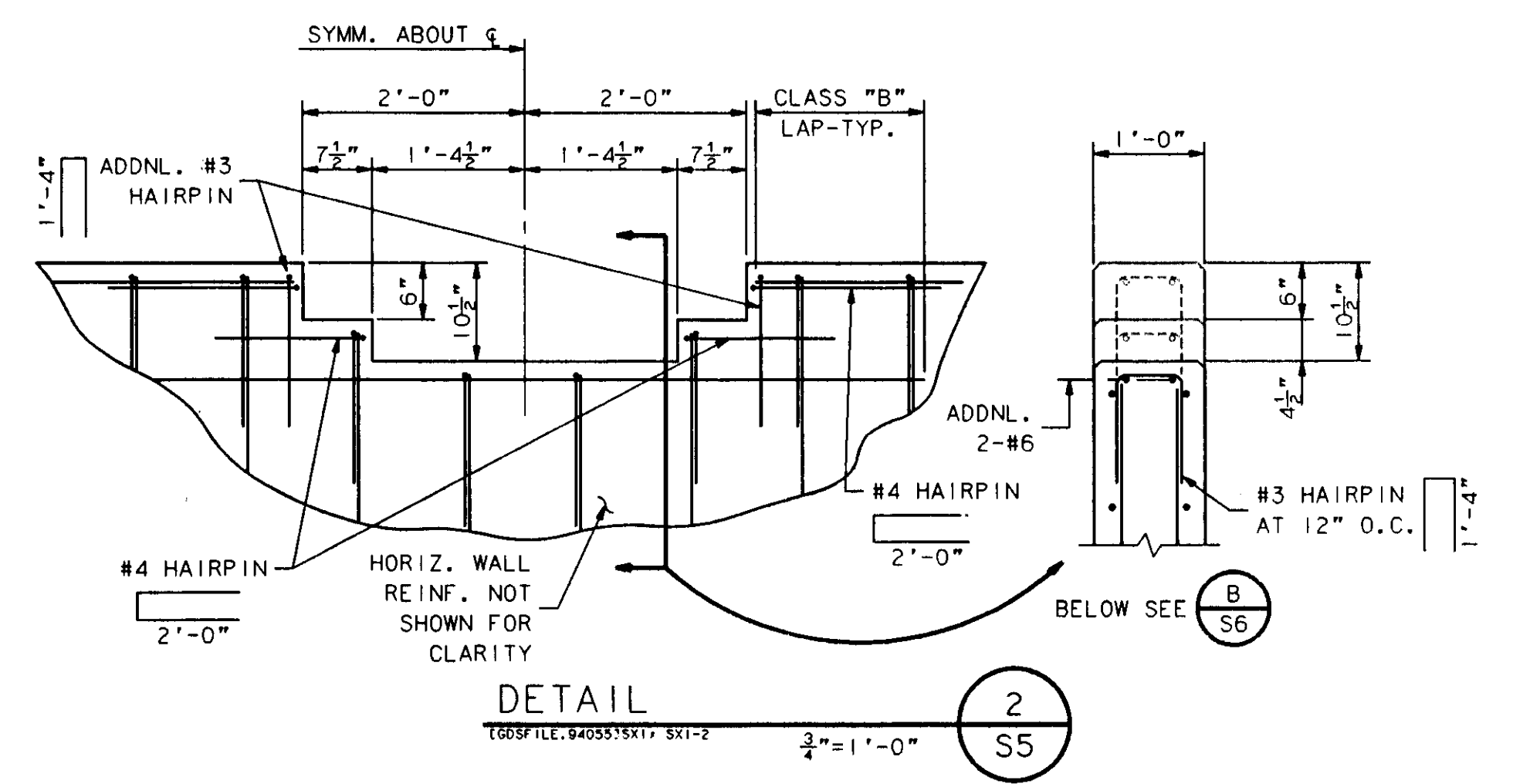
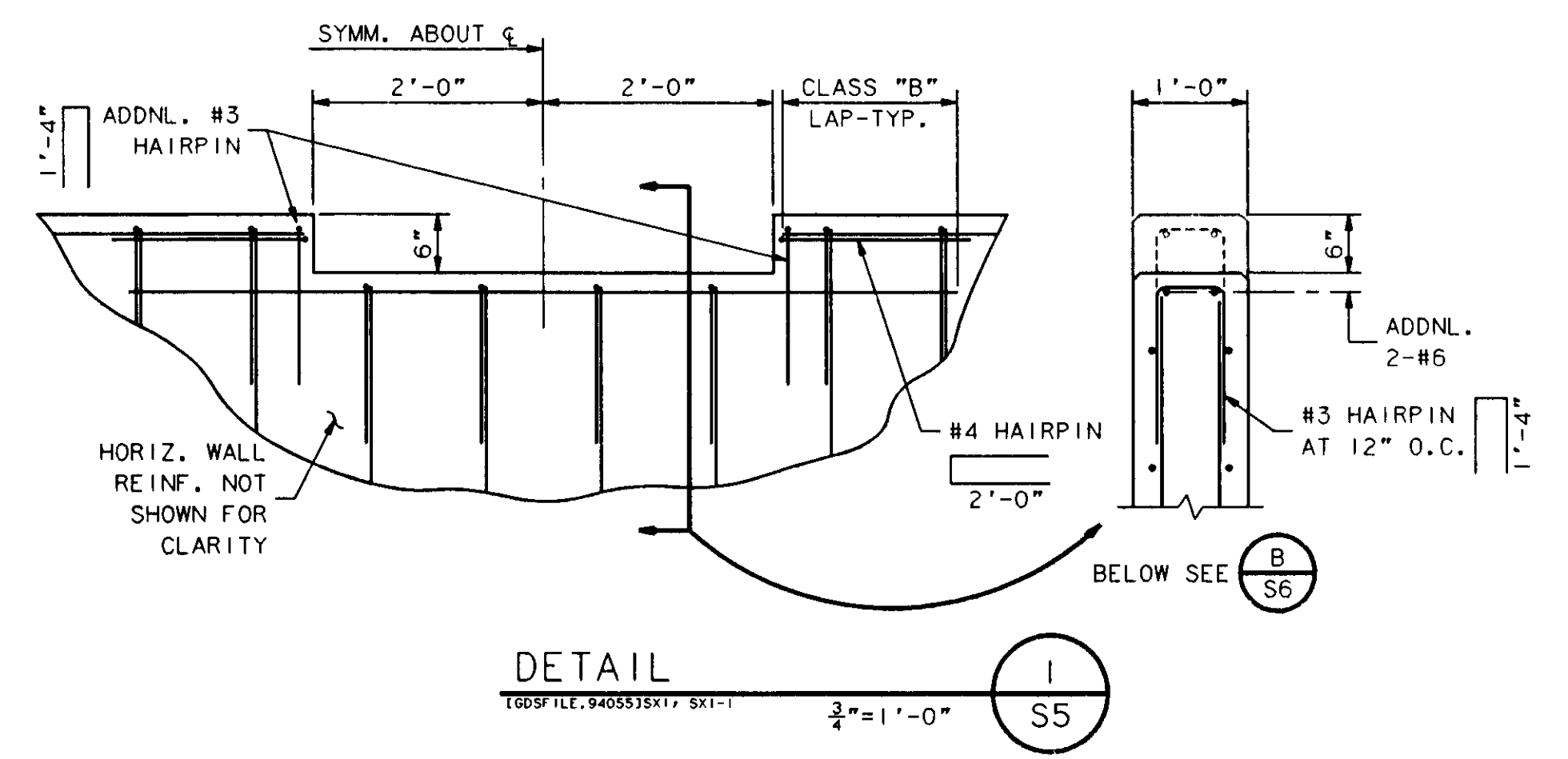
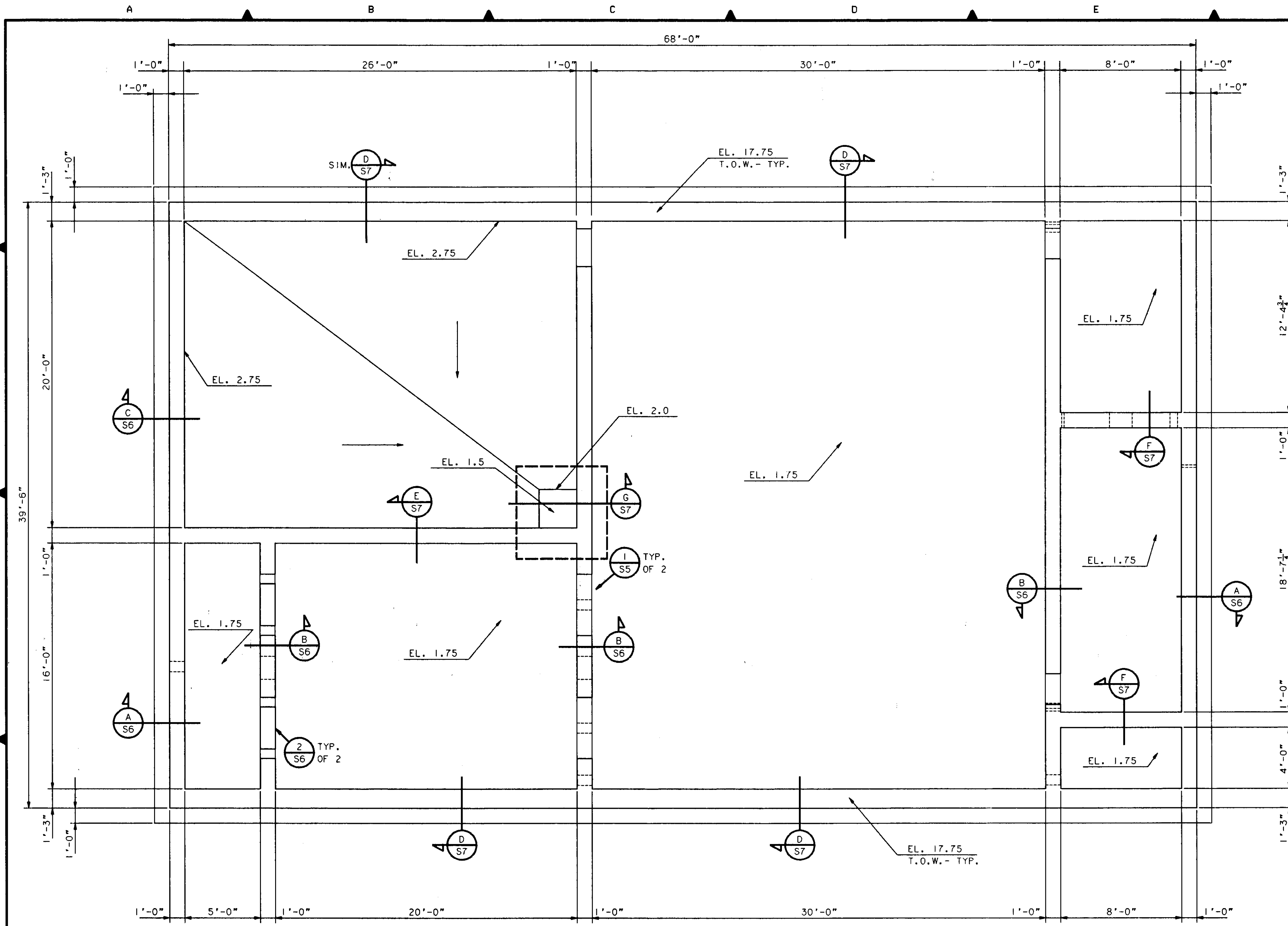
DEWANTE AND STOWELL
 CONSULTING ENGINEERS
 SACRAMENTO, CALIFORNIA

FLAG CITY
 SAN JOAQUIN CO., CALIFORNIA
WASTEWATER TREATMENT FACILITIES

**AERATION BASIN, CLARIFIER, SURGE BASIN
 AND AEROBIC DIGESTER
 SECTIONS**

DRAWING NUMBER S6	SHEET NUMBER 27 of 44
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REVISION	DESCRIPTION	BY	APP	DATE



FOUNDATION PLAN
1/4" = 1'-0"

SU-2877



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RECORD DRAWING

SCALE AS NOTED	DATE AUGUST 1994	DESIGNED STH	SUBMITTED
	FILE 93423	DRAWN LEL	RECOMMENDED
		CHECKED WHR	APPROVED

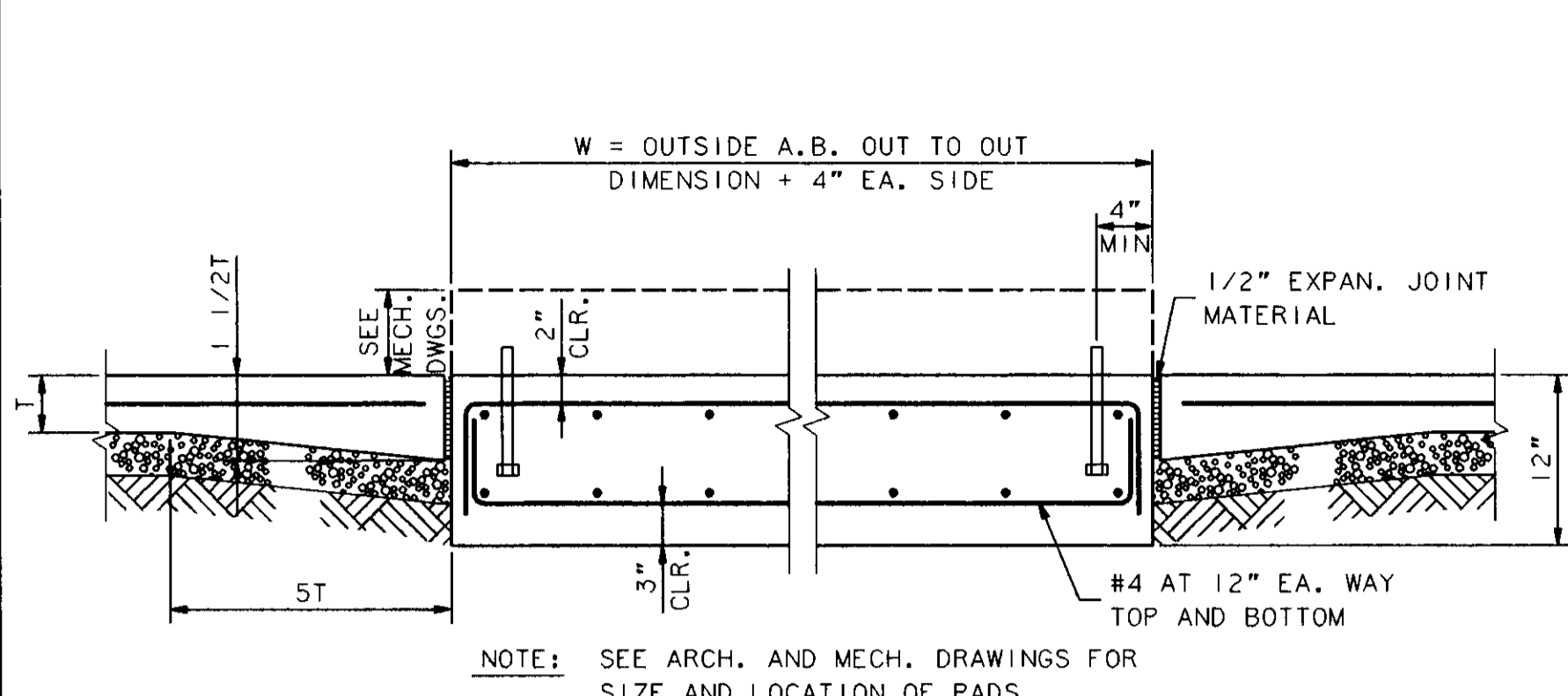
DEWANTE AND STOWELL
 CONSULTING ENGINEERS
 SACRAMENTO, CALIFORNIA

FLAG CITY
 SAN JOAQUIN CO., CALIFORNIA
WASTEWATER TREATMENT FACILITIES

**AERATION BASIN, CLARIFIER, SURGE BASIN
 AND AEROBIC DIGESTER
 FOUNDATION PLAN AND DETAILS**

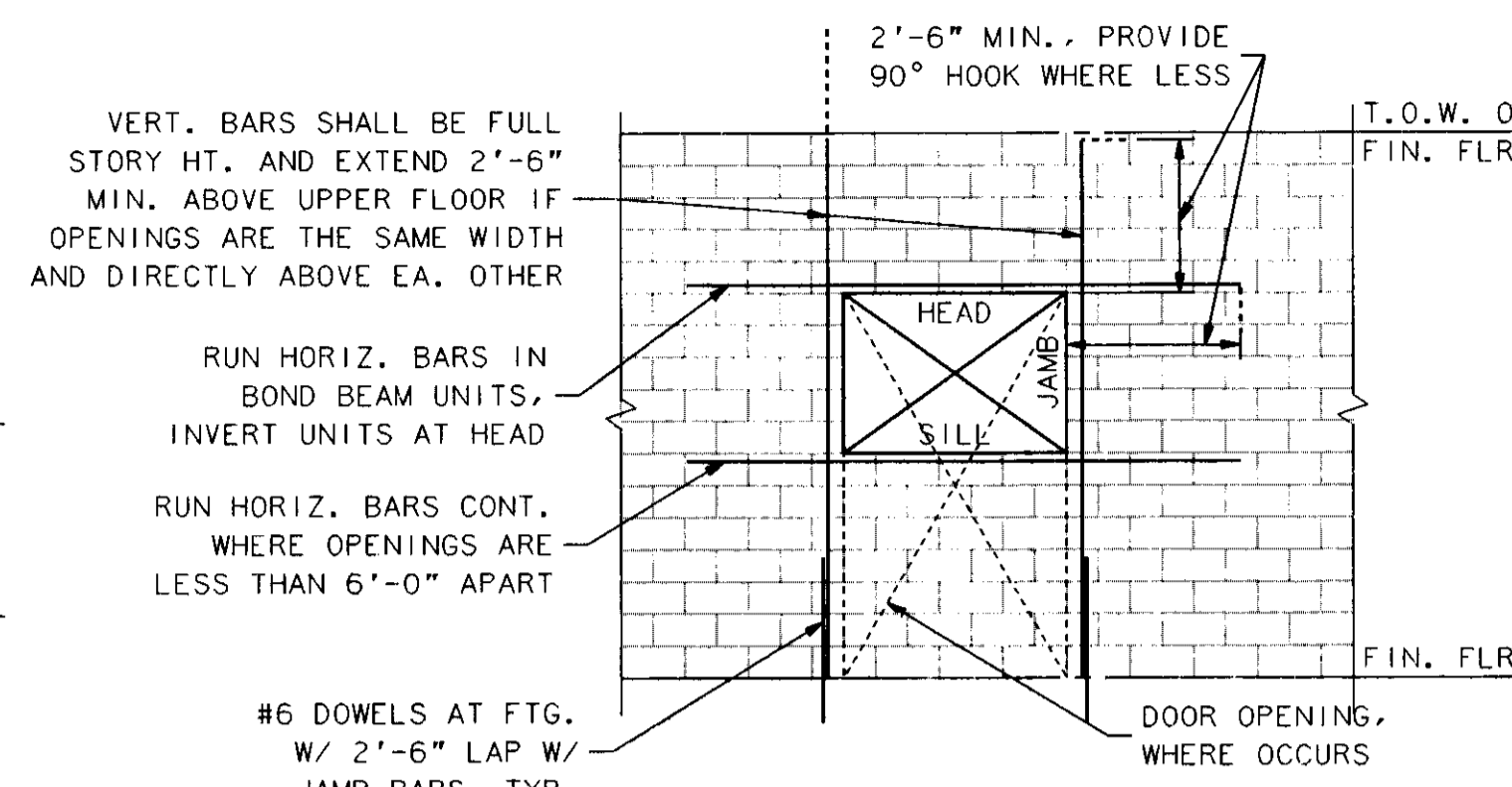
DRAWING NUMBER S5	SHEET NUMBER 26 OF 44
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REVISION	DESCRIPTION	BY	APP	DATE

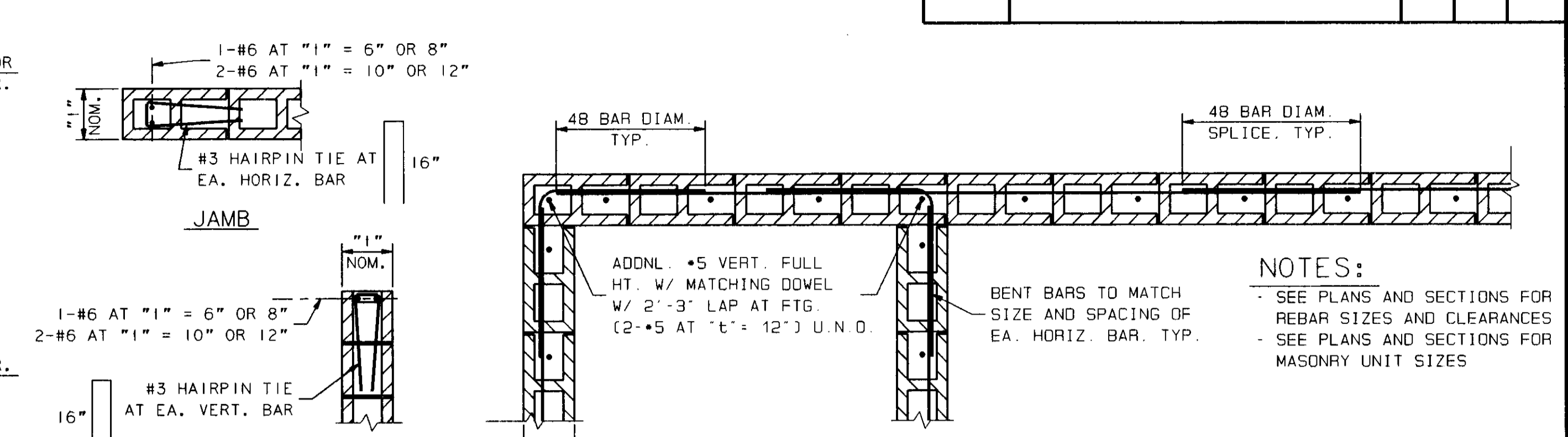


NOTE: SEE ARCH. AND MECH. DRAWINGS FOR SIZE AND LOCATION OF PADS.

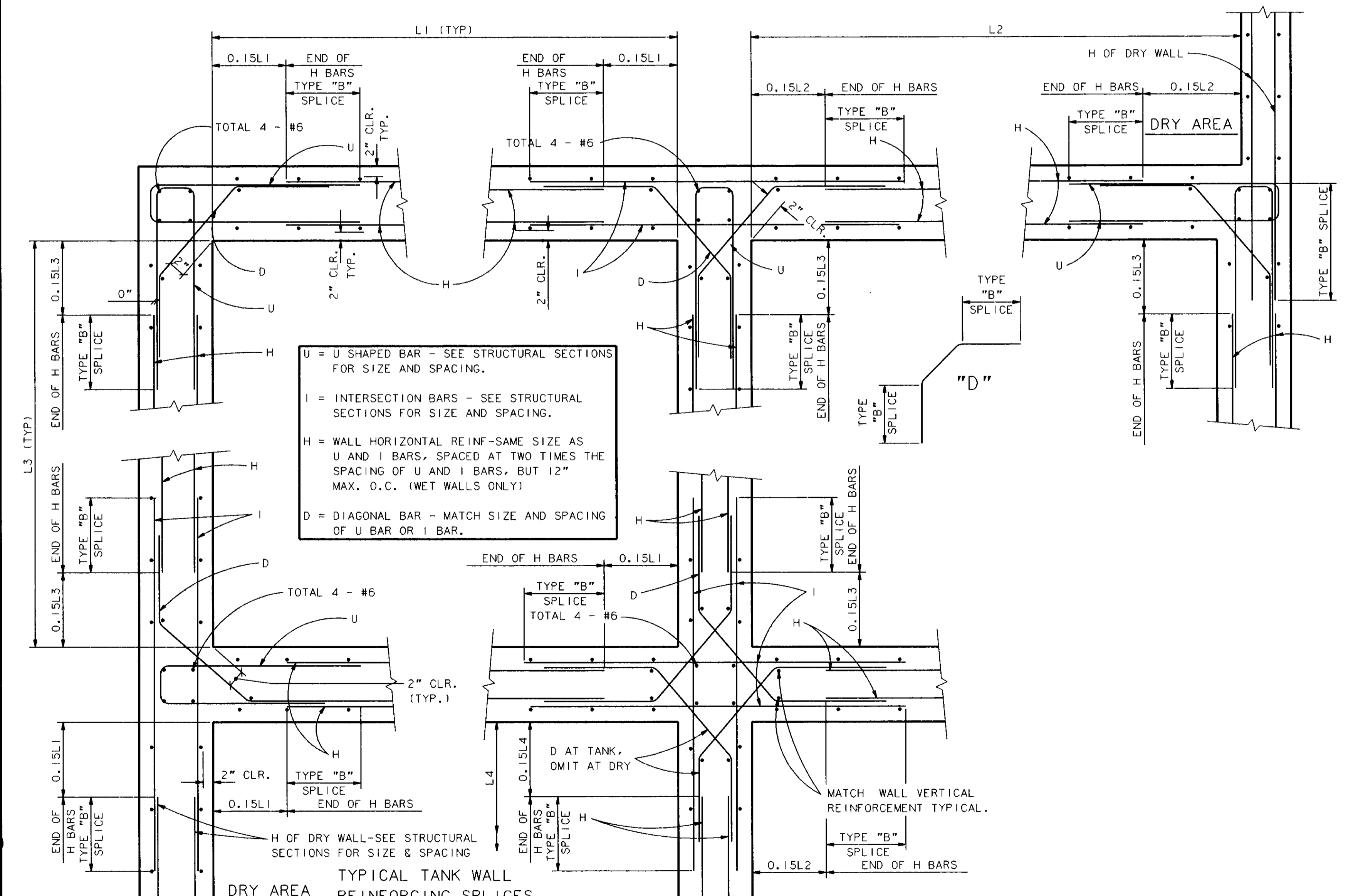
TYPICAL CONCRETE PAD
DETAIL
17
NO SCALE S4



OPENINGS IN MASONRY WALLS
DETAIL
19
NO SCALE S4

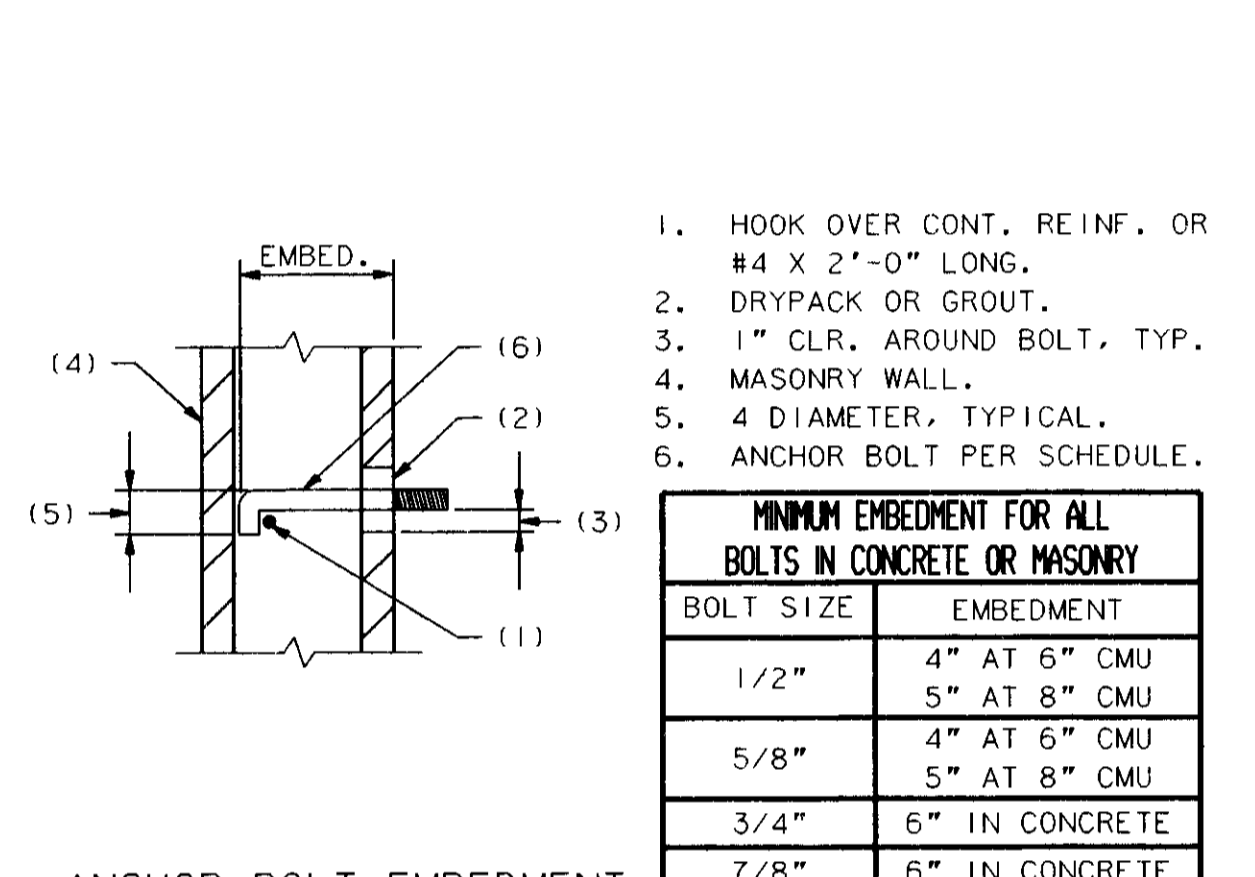


MASONRY WALL REINFORCING
PLAN DETAIL
20
NO SCALE S4



U = U SHAPED BAR - SEE STRUCTURAL SECTIONS FOR SIZE AND SPACING.
I = INTERSECTION BARS - SEE STRUCTURAL SECTIONS FOR SIZE AND SPACING.
H = WALL HORIZONTAL REINF-SAME SIZE AS U AND I BARS, SPACED AT TWO TIMES THE SPACING OF U AND I BARS, BUT 12\"/>

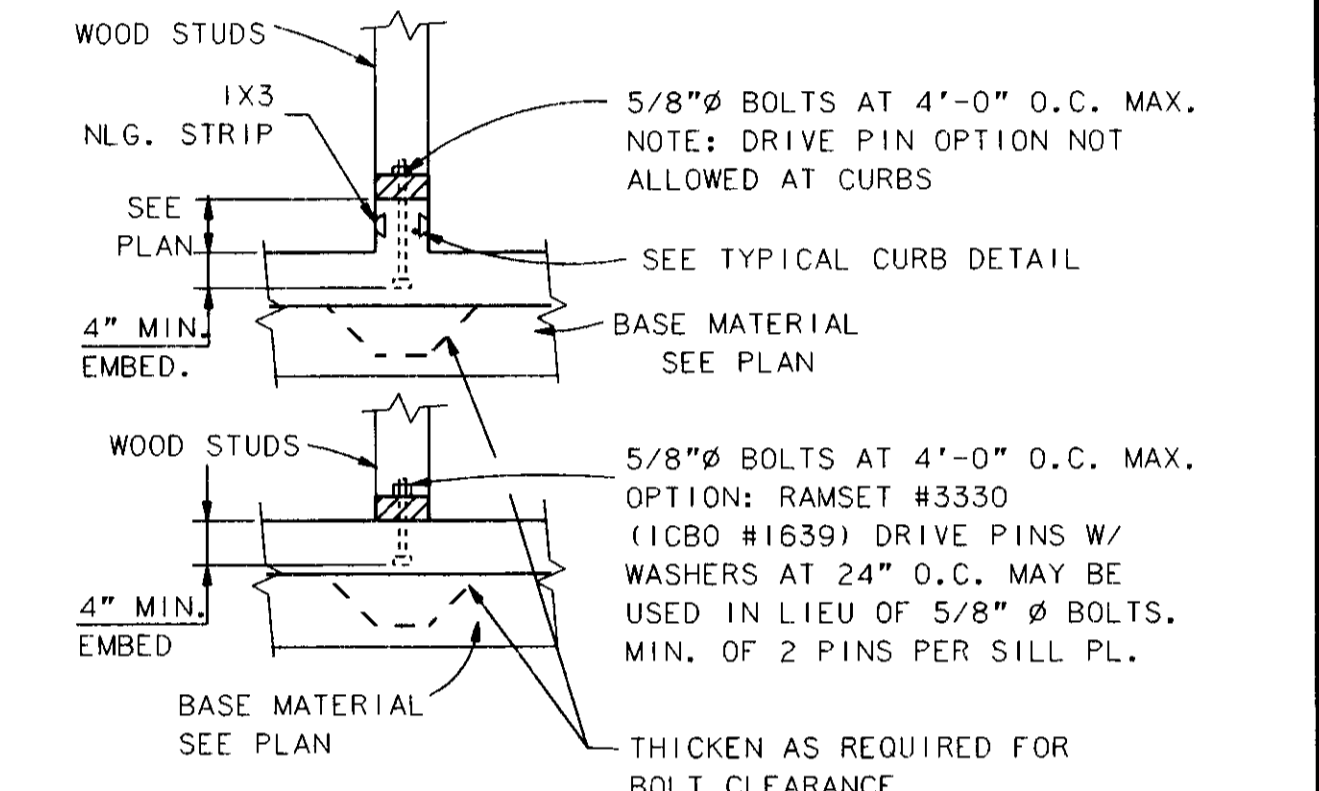
TYPICAL TANK WALL
REINFORCING SPLICES
DETAIL
18
NO SCALE S4



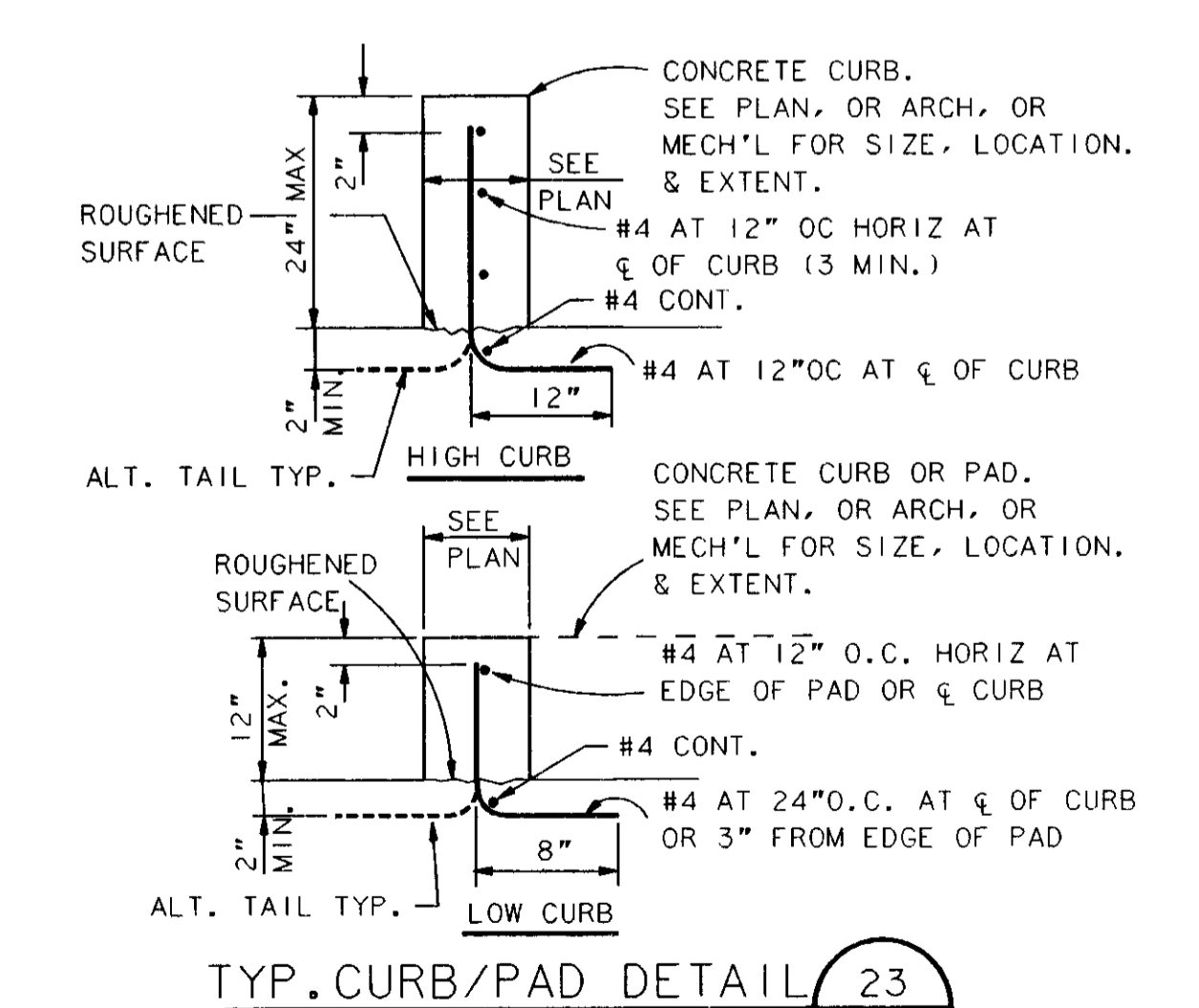
- HOOK OVER CONT. REINF. OR #4 X 2'-0\"/>

MINIMUM EMBEDMENT FOR ALL BOLTS IN CONCRETE OR MASONRY	
BOLT SIZE	EMBEDMENT
1/2"	4" AT 6" CMU 5" AT 8" CMU
5/8"	4" AT 6" CMU 5" AT 8" CMU
3/4"	6" IN CONCRETE
7/8"	6" IN CONCRETE

ANCHOR BOLT EMBEDMENT
DETAIL
21
NO SCALE S4



NON-BEARING INTERIOR PARTITION
DETAIL
22
NO SCALE S4

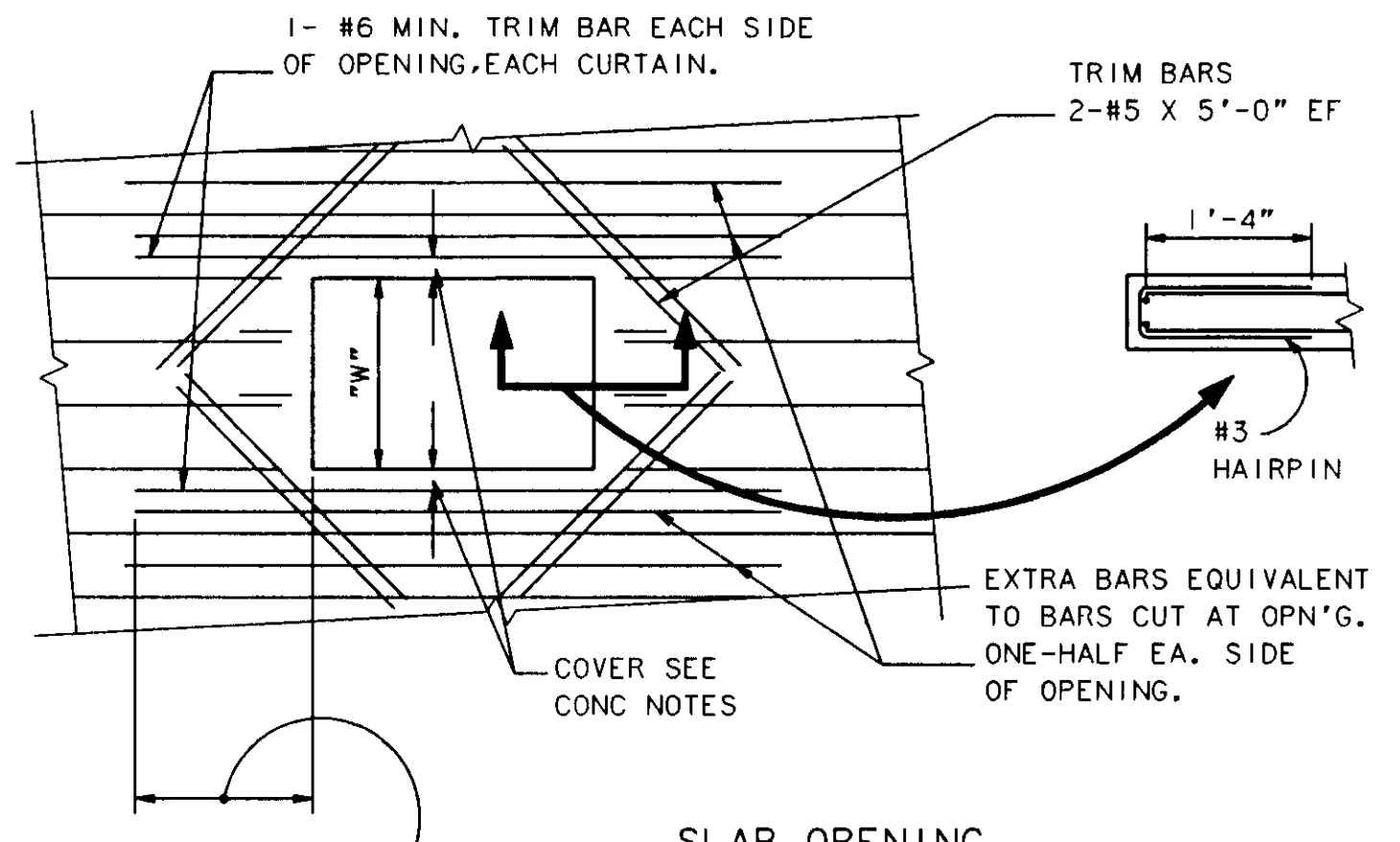
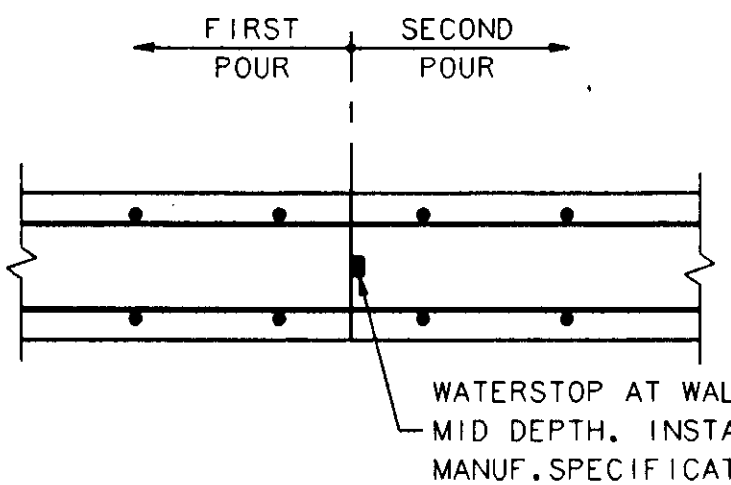
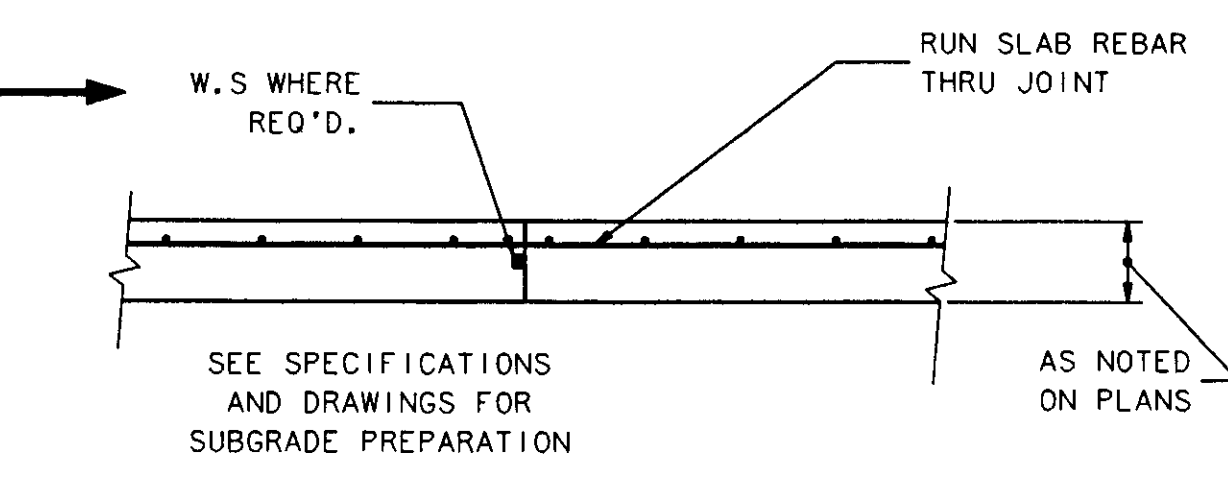
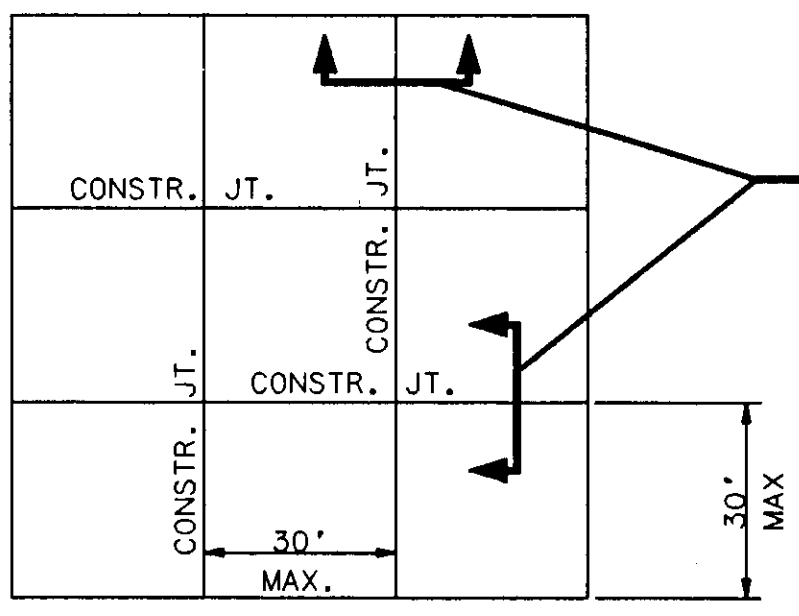


TYP. CURB/PAD DETAIL
23
NO SCALE S4

SU-2878

William H. Schubert
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Suite 200 2500 Venture Oaks Way
Sacramento, Ca. 95833 916/920-2020

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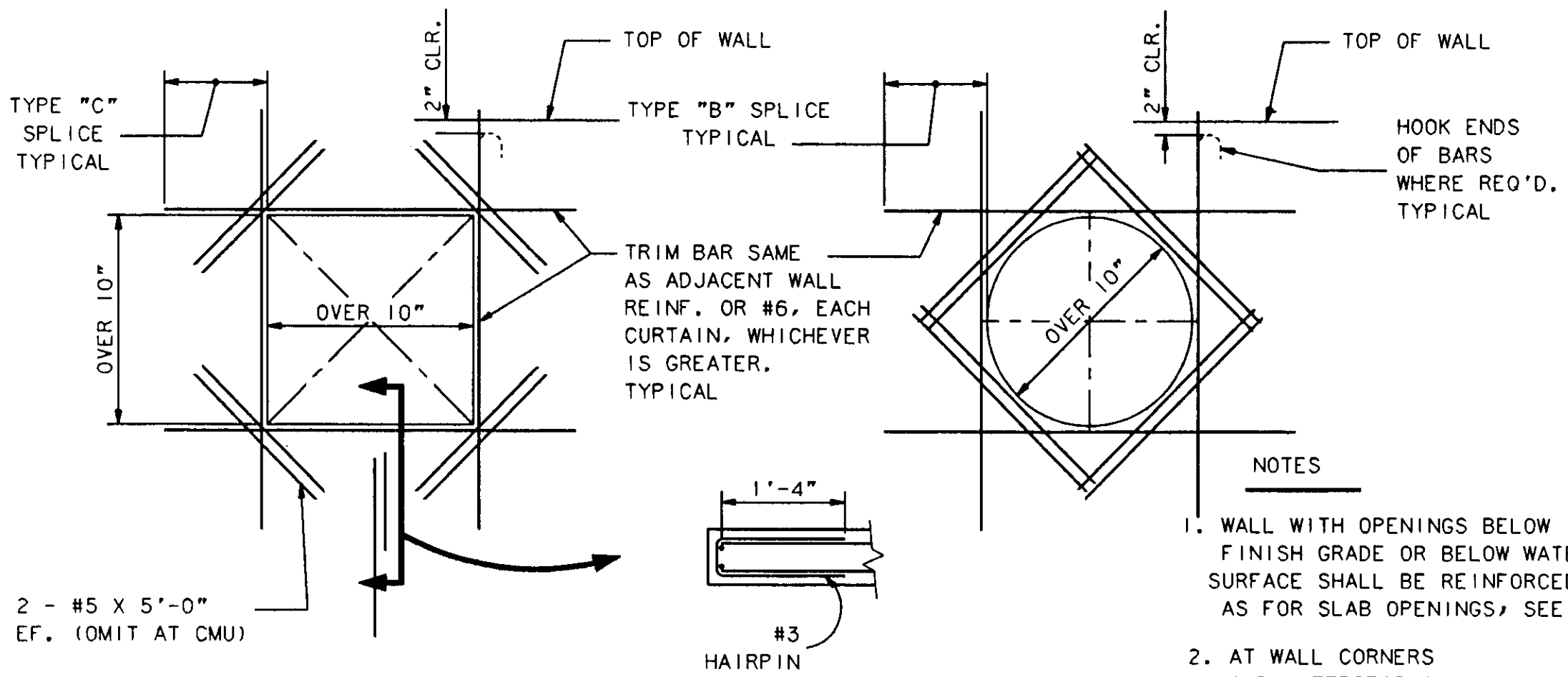


- NOTES**
1. REINFORCEMENT IN OTHER DIRECTION IS NOT SHOWN BUT SHALL BE TREATED IN SAME MANNER AS BARS SHOWN.
 2. FOR ROUND OPENINGS A SIMILAR DETAIL SHALL BE USED EXCEPT THAT THE DIAMETER OF THE ROUND OPENING SHALL REPLACE W.
 3. THIS DETAIL SHALL ALSO APPLY TO WALLS BELOW WATER OR FINISH GRADE.

SLAB ON GRADE CONSTRUCTION JOINT
DETAIL
NO SCALE (9) S3

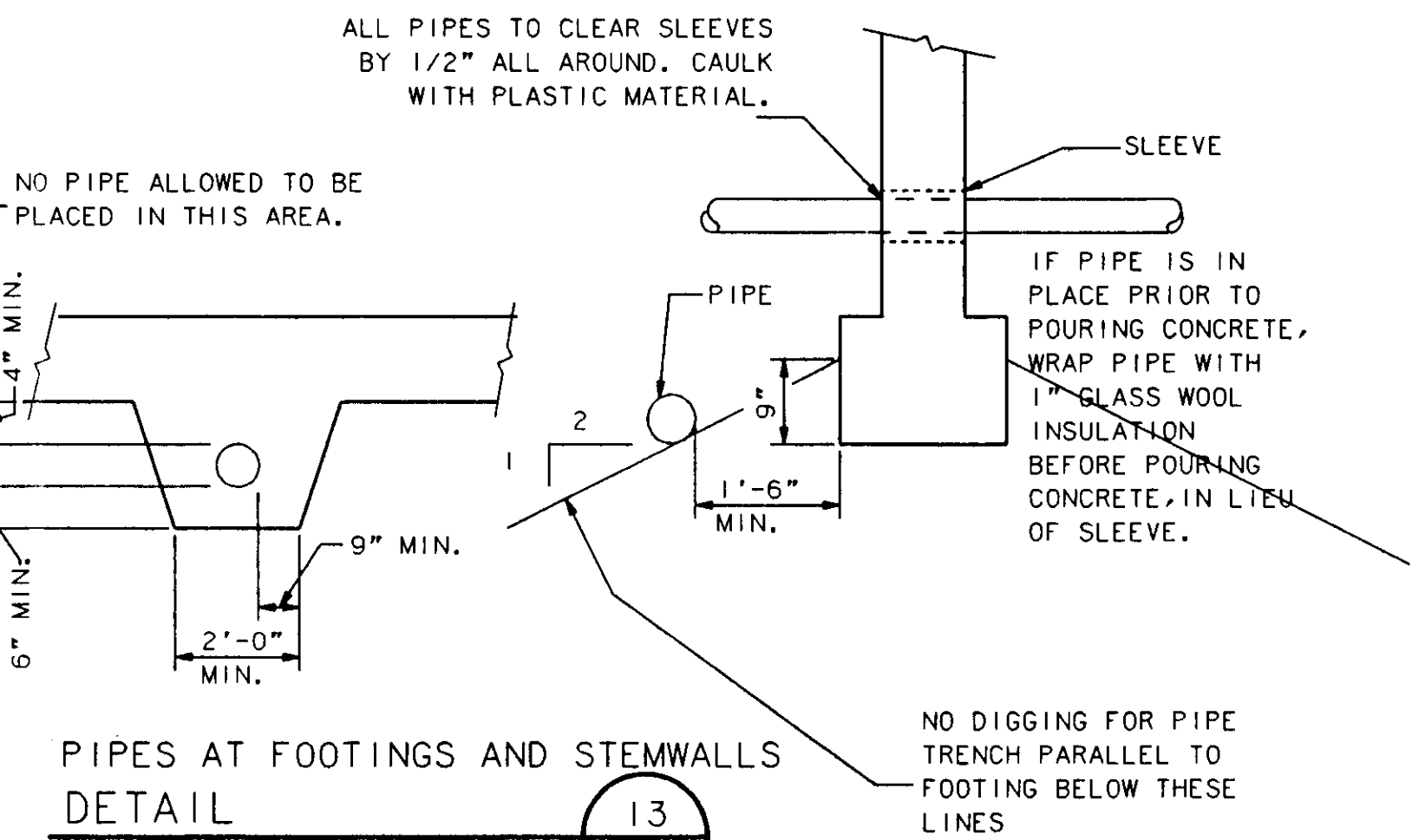
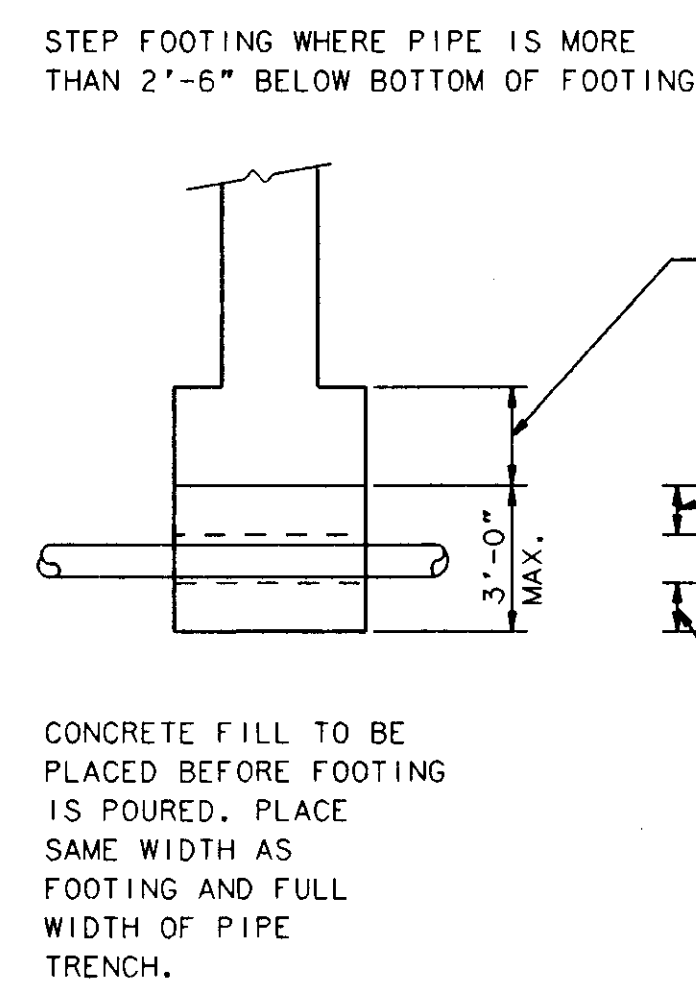
WATERSTOP JOINT (W.S.)
DETAIL
NO SCALE (10) S3

SLAB OPENING
DETAIL
NO SCALE (11) S3

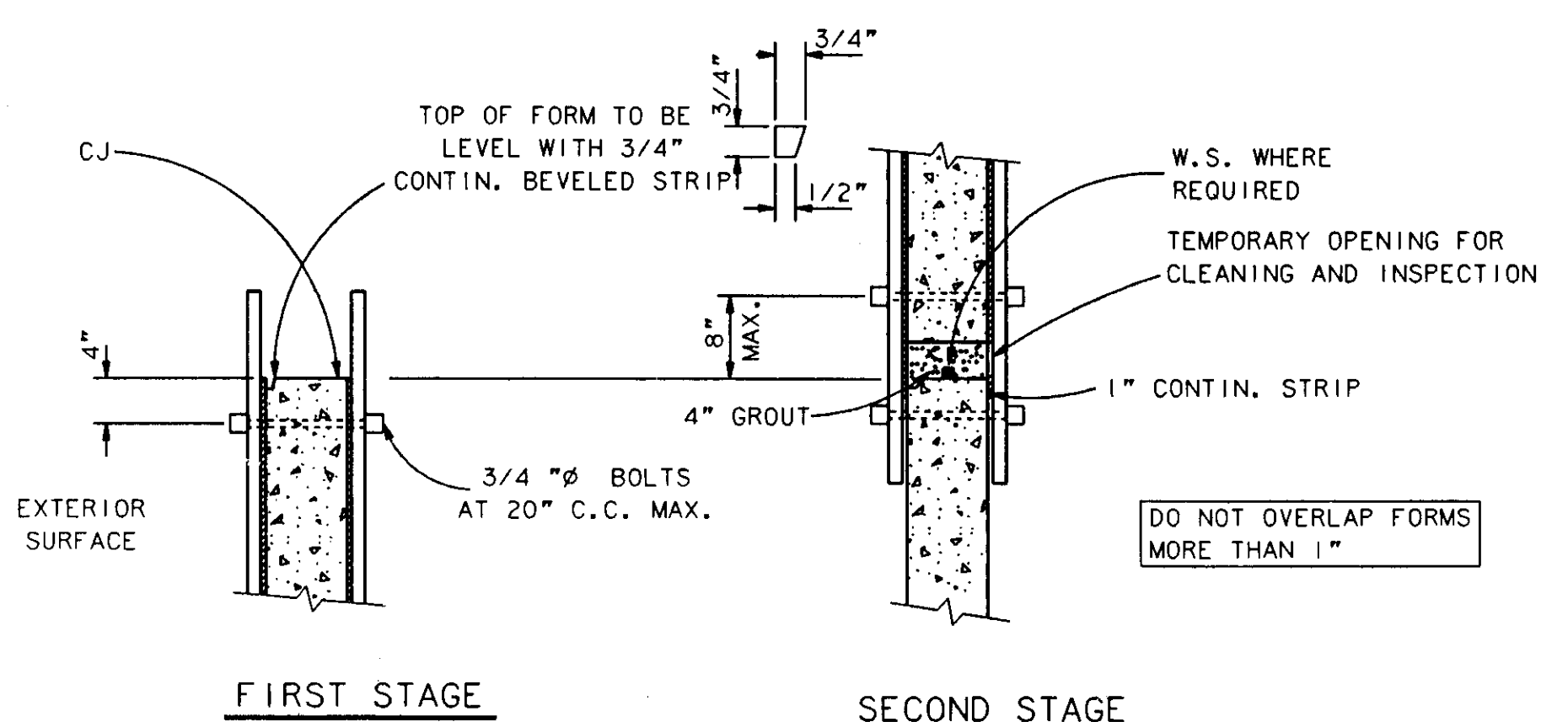


- NOTES**
1. WALL WITH OPENINGS BELOW FINISH GRADE OR BELOW WATER SURFACE SHALL BE REINFORCED AS FOR SLAB OPENINGS; SEE (11) S3
 2. AT WALL CORNERS AND INTERSECTIONS BEND BARS AS IN DETAIL (3) S2

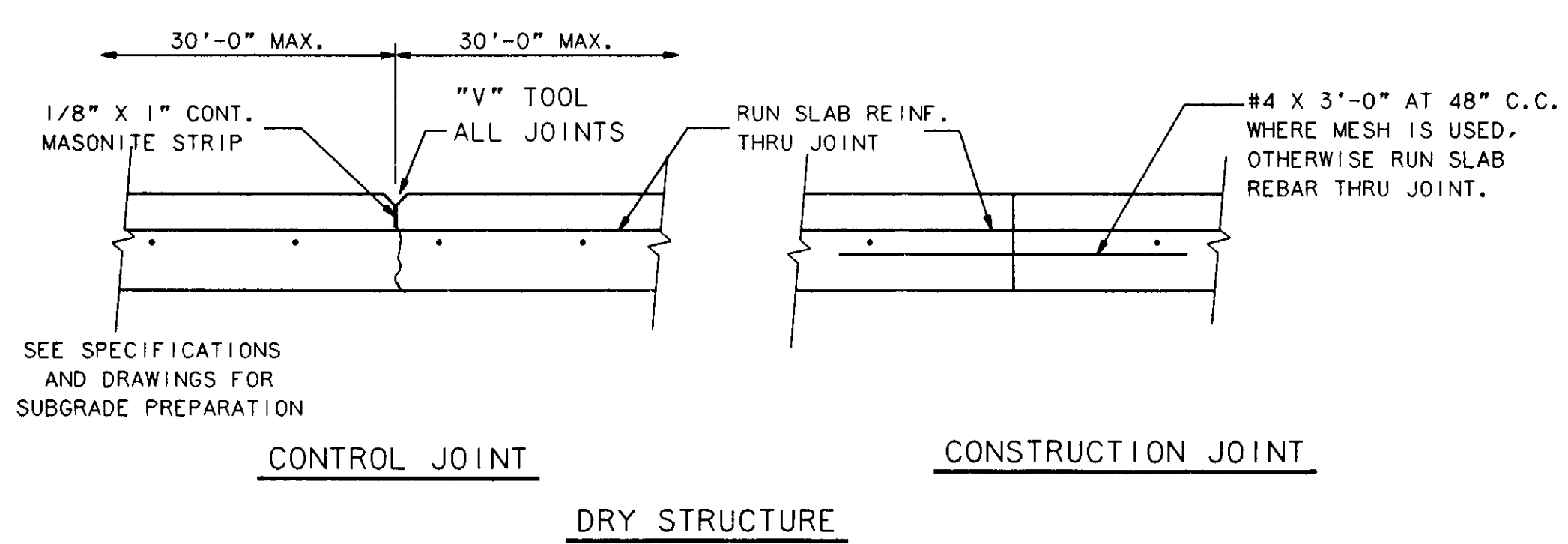
OPENINGS IN CONC. WALLS
DETAIL
NO SCALE (12) S3



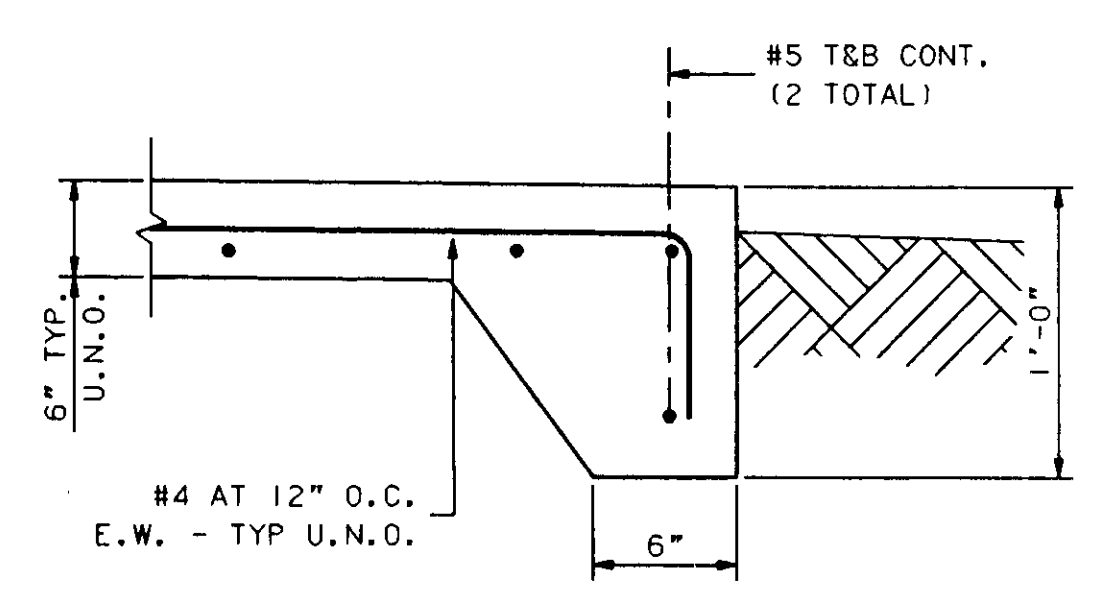
PIPES AT FOOTINGS AND STEMWALLS
DETAIL
NO SCALE (13) S3



HORIZONTAL CONSTRUCTION JOINTS
DETAIL
NO SCALE (14) S3

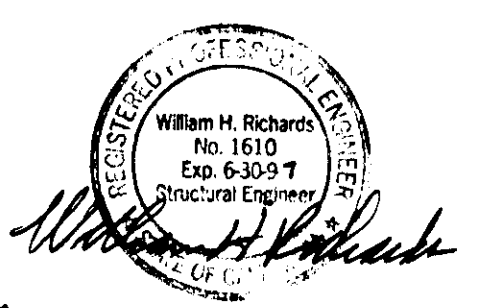


SLAB ON GRADE JOINTS
DETAIL
NO SCALE (15) S3



DETAIL
NO SCALE (16) S3

RECORD DRAWING



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Structural Engineers, Incorporated
Suite 200 2500 Venture Oaks Way
Sacramento, Ca. 95833 916/920-2020

SU-2879

SCALE NONE	DATE AUGUST 1994	DESIGNED STH	SUBMITTED RECOMMENDED APPROVED
	FILE 93423	DRAWN LEL	

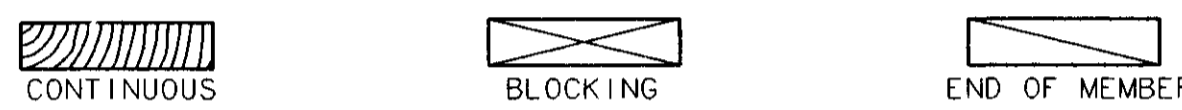
DEWANTE AND STOWELL
CONSULTING ENGINEERS
SACRAMENTO, CALIFORNIA

FLAG CITY
SAN JOAQUIN CO., CALIFORNIA
WASTEWATER TREATMENT FACILITIES

TYPICAL DETAILS II

DRAWING NUMBER S3	SHEET NUMBER 24 OF 44
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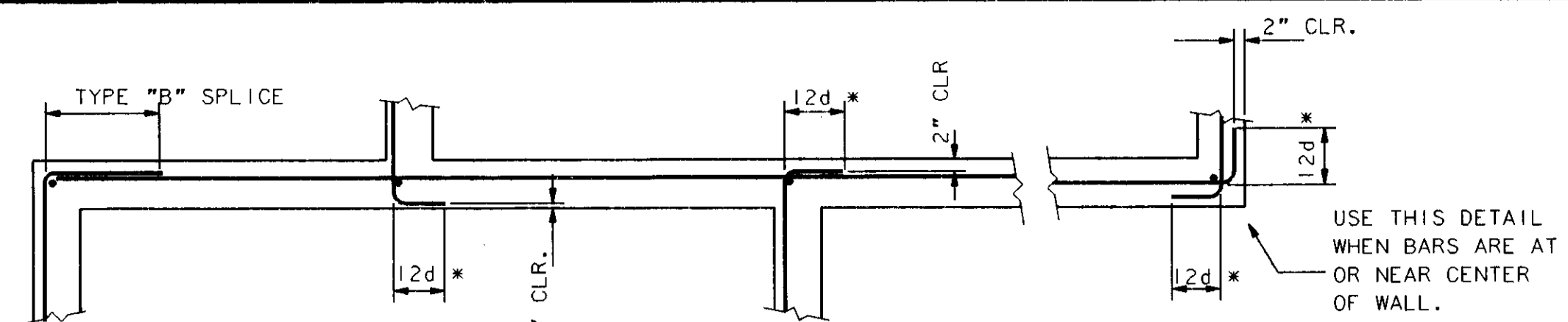
WOOD
T605F ILE. 940553527, W000

- ALL STRUCTURAL WOOD SHALL CONFORM WITH THE FOLLOWING SPECIFICATIONS:
DOUGLAS FIR - LARCH ----- U.B.C. STANDARD 25-4, STANDARD GRADING COAST REGION RULES (1981) OF W.W.P.A.
SILL PLATES ----- U.B.C. STANDARD 26-12.
STRUCTURAL PLYWOOD (S.P.) ----- U.S. PRODUCT STANDARD P.S. 1-83 FOR SOFTWOOD PLYWOOD.
STRUCTURAL PLYWOOD (S.P.) ----- U.S. PRODUCT STANDARD P.S. 1-83 FOR SOFTWOOD STRUCTURAL PLYWOOD (S.P.).
- MINIMUM GRADES SHALL BE:
STRUCTURAL FRAMING ----- D.F. NO. 1- FREE OF HEART CENTER, U.O.N. ON DRAWINGS.
STRUCTURAL PLYWOOD (S.P.) ----- AT ROOFS; APA C-D WITH EXTERIOR GLUE, SILL PLATES ----- PRESSURE TREATED D.F. NO. 1, FREE OF HEART CENTER EA. PIECE SHALL BEAR THE A.W.P.B. STAMP.
- PROVIDE SOLID BLOCKING BETWEEN JOISTS OR RAFTERS AT ALL SUPPORTS.
- NOTCHES OR HOLES IN WOOD JOIST ARE NOT PERMITTED UNLESS FULLY DETAILED ON DRAWINGS. CUTTING OF WOOD JOISTS SHALL BE LIMITED TO CUTS AND BORED HOLES NOT DEEPER THAN ONE-FIFTH THE JOIST DEPTH FROM THE TOP, AND LOCATED NOT FARTHER FROM THE END THAN THREE TIMES THE JOIST DEPTH. SEE TYPICAL DETAIL 7/S2.
- HOLES FOR BOLTS IN WOOD SHALL BE BORED WITH A BIT OF THE SAME NOMINAL DIAMETER AS THE BOLT + 1/16".
- ALL BOLTS AND LAG SCREWS SHALL BE PROVIDED WITH METAL WASHERS UNDER HEADS AND NUTS WHICH BEAR ON WOOD. APPLIES ALSO TO INSERTED EXPANDING FASTENERS - RED HEAD, WEJ-IT, ETC. USE USS STANDARD CUT FLAT WASHERS.
- ALL BOLT AND LAG SCREWS SHALL BE TIGHTENED AT TIME OF INSTALLATION AND RETIGHTENED BEFORE CLOSING IN OR AT COMPLETION OF JOB.
- LAY ALL STRUCTURAL PLYWOOD ON ROOF AND FLOORS WITH FACE GRAIN PERPENDICULAR TO SUPPORTS.
- BLOCK S.P. JOINTS WITH 2 X 4 FLAT BLOCKING WHERE NOTED ON FRAMING PLANS AND WITH BLOCKING SAME SIZE AS STUDS AT WALLS.
- CROSS BRIDGING BETWEEN JOISTS OR RAFTERS - SEE FRAMING PLANS AND TYPICAL DETAIL.
- WOOD SYMBOLS:

- ALL METAL HARDWARE SHALL BE SIMPSON OR EQUIVALENT U.O.N.
- ANCHOR BOLTS WITH UPSET THREADS SHALL NOT BE USED.

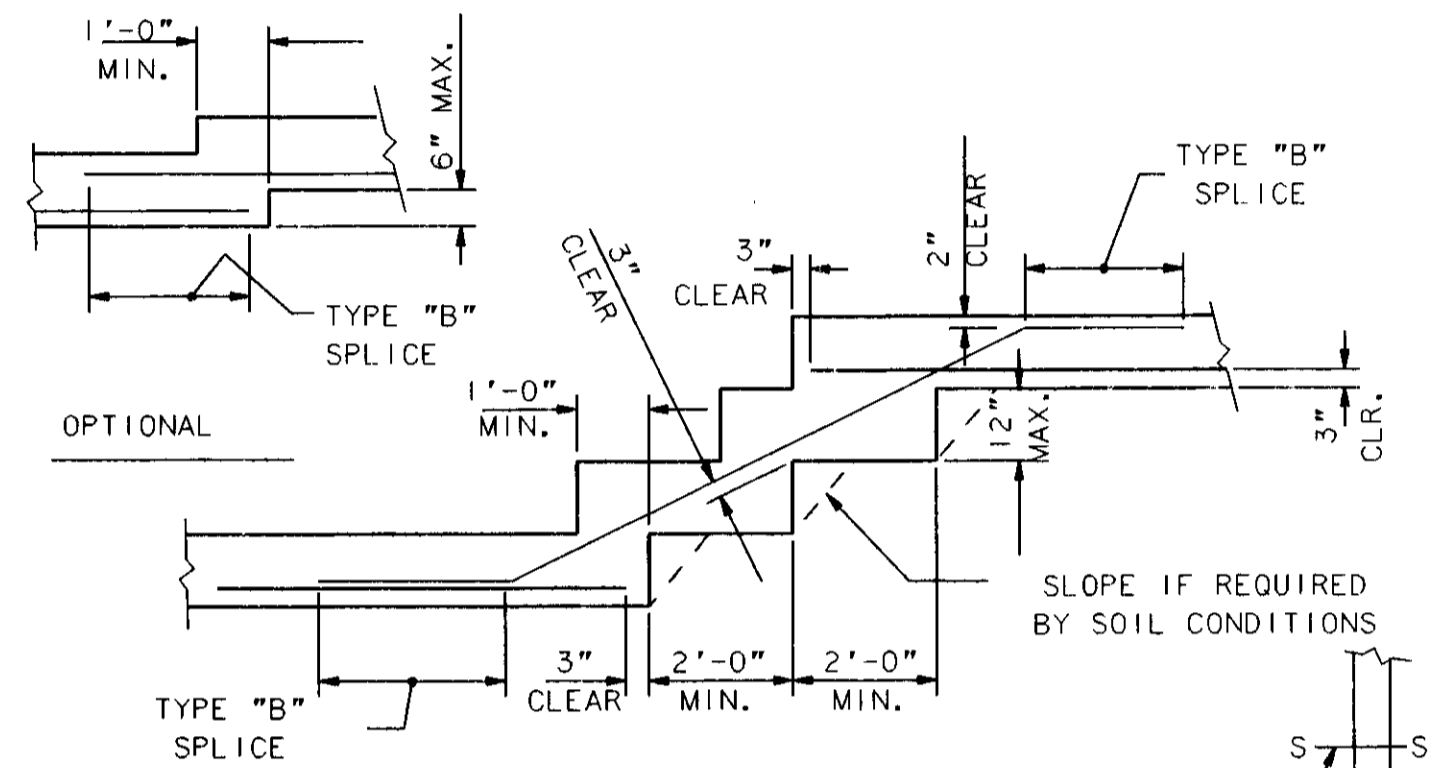
NAILING SCHEDULE
T605F ILE. 940553527, N001

ALL NAILS FOR STRUCTURAL WORK SHALL BE COMMON WIRE NAILS. HOLES SHALL BE PRE-DRILLED WHERE NECESSARY TO PREVENT SPLITTING. NAILING NOT NOTED BELOW OR ON DRAWINGS SHALL BE A MINIMUM OF TWO NAILS AT EACH CONTACT: 8d FOR 1X MATERIAL AND 16d FOR 2X MATERIAL.

1. JOISTS OR RAFTERS	TO SIDES OF STUDS	8" JOIST OR LESS EA. ADDNL. 4" DEPTH TOENAIL EA. SIDE	3-16d 1-16d 2-10d
3. BLOCKING	BETW. JOISTS, RAFTERS OR STUDS BETW. JOIST OR RAFTER BEARINGS (PLATES)	T.N. EA. SIDE EA. END IN PLACE OF T.N. T.N. EA. SIDE	2-10d 2-16d 3-10d
3. BUILT-UP BEAMS	10" OR LESS IN DEPTH; EA. SIDE STAGGERED 16d AT 12" C.C. MORE THAN 10" IN DEPTH: 1/2" DIAM. BOLTS AT 24" C.C. STAGGERED		
4. STRUCTURAL PLYWOOD (S.P.)	- SEE DETAILS		
5. NON-STRUCTURAL PLYWOOD (USE FINISH NAILS)	- AT SUPPORTED EDGES 6d AT 6" C.C. AT INTERIOR BRG.S 6d AT 12" C.C.		
6. CROSS-BRIDGING	EA. END		2-10d
7. FOR ANY NAILING NOT SHOWN	SEE TABLE NO. 25-0 1991 U.B.C.		



TYPICAL WALL & FTG. REINFORCING SPLICES
DETAIL
T605F ILE. 940553527, DET3
NO SCALE S2



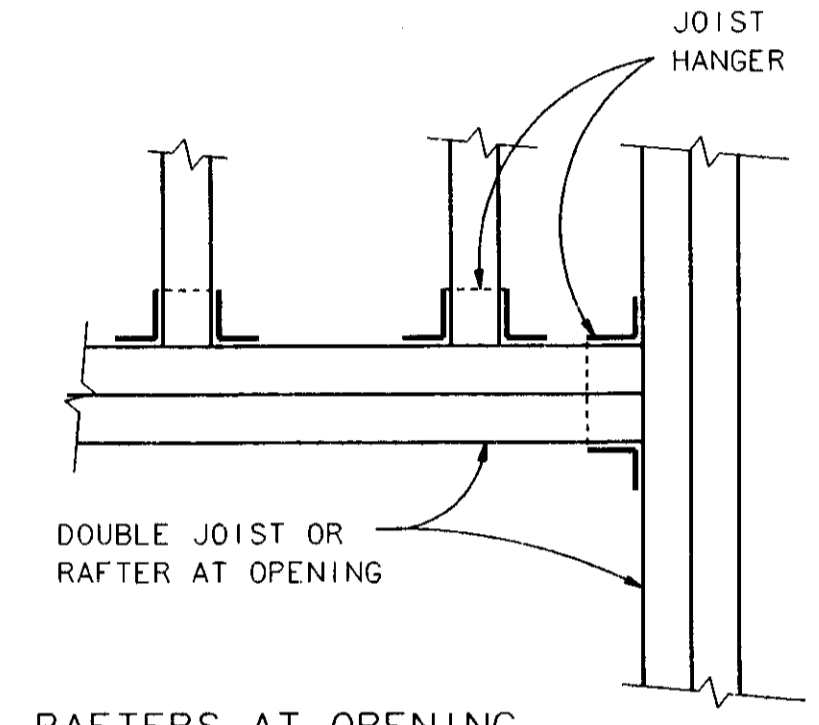
STEPPED FOOTING
DETAIL
T605F ILE. 940553527, DET4
NO SCALE S2

SINGLE LAYER BARS

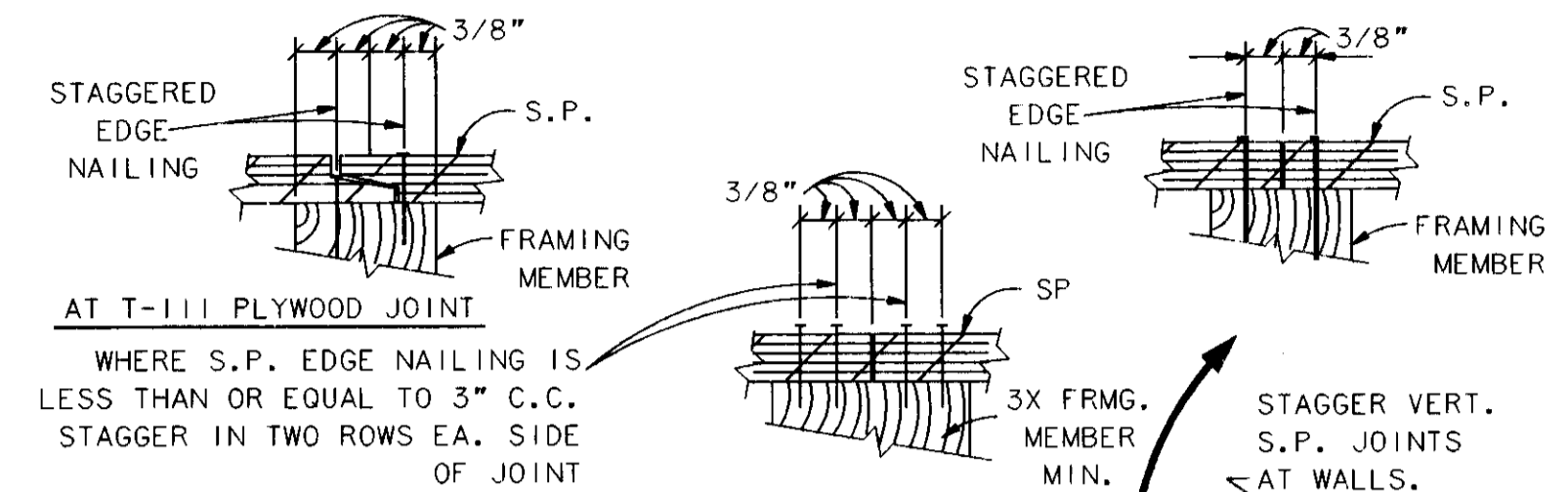
* = 12" MINIMUM

DOUBLE LAYER BARS

SEE CONCRETE NOTES FOR REBAR CLEARANCES.



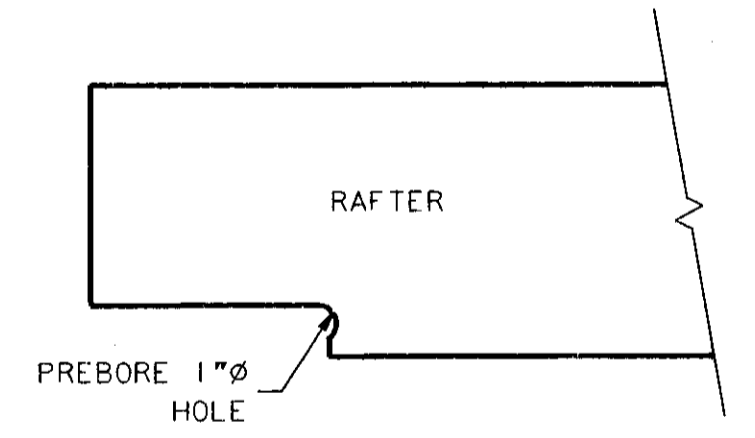
RAFTERS AT OPENING
DETAIL
T605F ILE. 940553527, DET5
NO SCALE S2



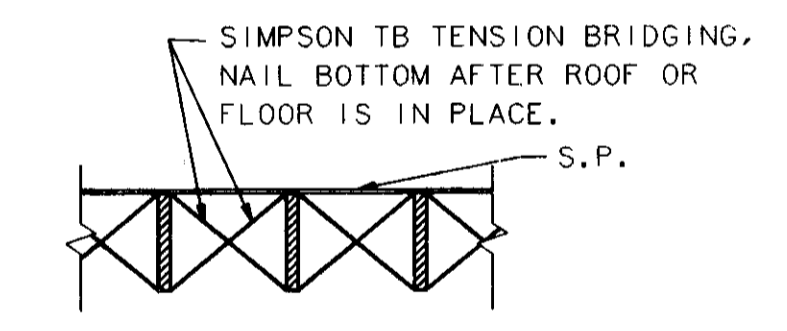
STRUCTURAL PLYWOOD NAILING
DETAIL
T605F ILE. 940553527, DET6
NO SCALE S2

PRE-ENGINEERED ROOF TRUSSES
T605F ILE. 940553527, TRUSS

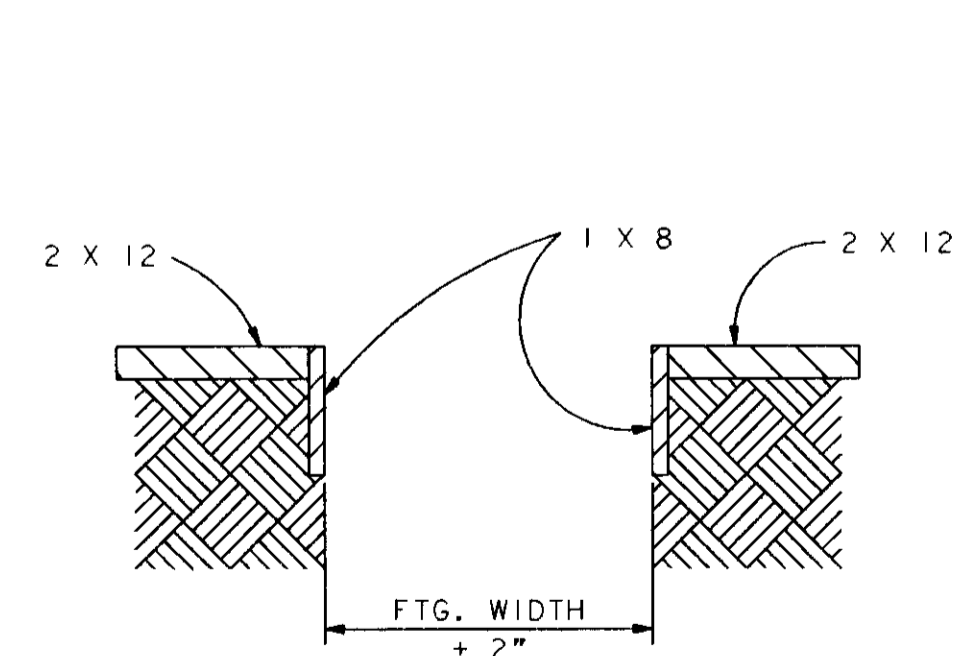
- TRUSS DESIGN SHALL BE PROVIDED BY THE SUPPLIER TO MEET THIS CRITERIA, 1991 UBC REQUIREMENTS AND UBC STANDARD NO. 25-17, PART V FOR LOADS AS FOLLOWS:
TRUSS LOADING:
TOP CHORD: 11.0 PSF DEAD LOAD AND 20.0 PSF LIVE LOAD (REDUCIBLE)
BOTTOM CHORD: 6.0 PSF DEAD LOAD AND 10.0 PSF LIVE LOAD & 100# POINT LOAD @ ANY LOCATION.
LIVE LOADS DO NOT ACT SIMULTANEOUSLY.
* TRUSS TOP CHORDS SHALL BE DESIGNED WITH AN ADDITION AXIAL COMPRESSION AND TENSION FORCE OF 1100 LBS (SUB-DIAPHRAGM CHORD FORCE DUE TO SEISMIC/WIND LOADS).
- MINIMUM GRADE LUMBER - #2 HEM FIR.
- CONNECTIONS SHALL BE IN ACCORDANCE WITH PUBLISHED APPROVALS OF I.C.B.O.
- MINIMUM MEMBER SIZES: TOP CHORD 2X6; BOTTOM CHORD 2X4; WEB 2X3 (REGRADED IF RIPPED FROM 2X6 LUMBER).
- TRUSS DRAWINGS, CALCULATIONS AND COPIES OF I.C.B.O. APPROVALS FOR METAL CONNECTOR PLATES SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION.
- HEEL JOINT DESIGN SHALL CONSIDER THE EFFECTS OF ECCENTRIC LOADING IN ACCORDANCE WITH UBC STANDARD 25-17, PART V.
- MAXIMUM ALLOWABLE LOAD DURATION STRESS INCREASE IS TO BE 15%.
- INCREASE IN ALLOWABLE STRESS FOR ASSEMBLIES OF REPETITIVE FRAMING SHALL NOT BE PERMISSIBLE UNLESS THE TRUSSES ARE JOINED BY TRANSVERSE LOAD DISTRIBUTING ELEMENTS ADEQUATE TO SUPPORT THE DESIGN LOAD AS PROVIDED FOR IN UBC SECTION 2504 (a).
- PROVIDE COMBINED STRESS CALCULATIONS. WHEN EVALUATING COMBINED STRESS RATIO, THE MOMENT CONTRIBUTION SHALL BE CHECKED USING SIMPLE SPAN MOMENT FORMULAS. CONTINUOUS SPAN MOMENTS WILL NOT BE ALLOWED.
- DESIGN CAMBER FOR 1-1/2 TIMES ESTIMATED DEAD LOAD DEFLECTION.
- PROVIDE COMPLETE ROOF TRUSS LAYOUT PLAN(S) WITH TRUSS IDENTIFICATION NUMBERS CLEARLY IDENTIFIED ON PLANS AND CALCULATIONS. INDICATE TRUSS MANUFACTURER ON TRUSS DRAWINGS AND PLANS.
- CLEARLY INDICATE ALL BRACING AND BRIDGING. MEMBERS SHALL BE ADEQUATELY BRACED BEFORE ERECTION. MEMBERS SHALL BE ALIGNED AND ALL CONNECTIONS COMPLETED BEFORE REMOVAL OF BRACING.
- TRUSS DRAWINGS, TRUSS LAYOUT PLANS AND CALCULATIONS SHALL ALL BE SIGNED BY A CIVIL ENGINEER LICENSED BY THE STATE OF CALIFORNIA.



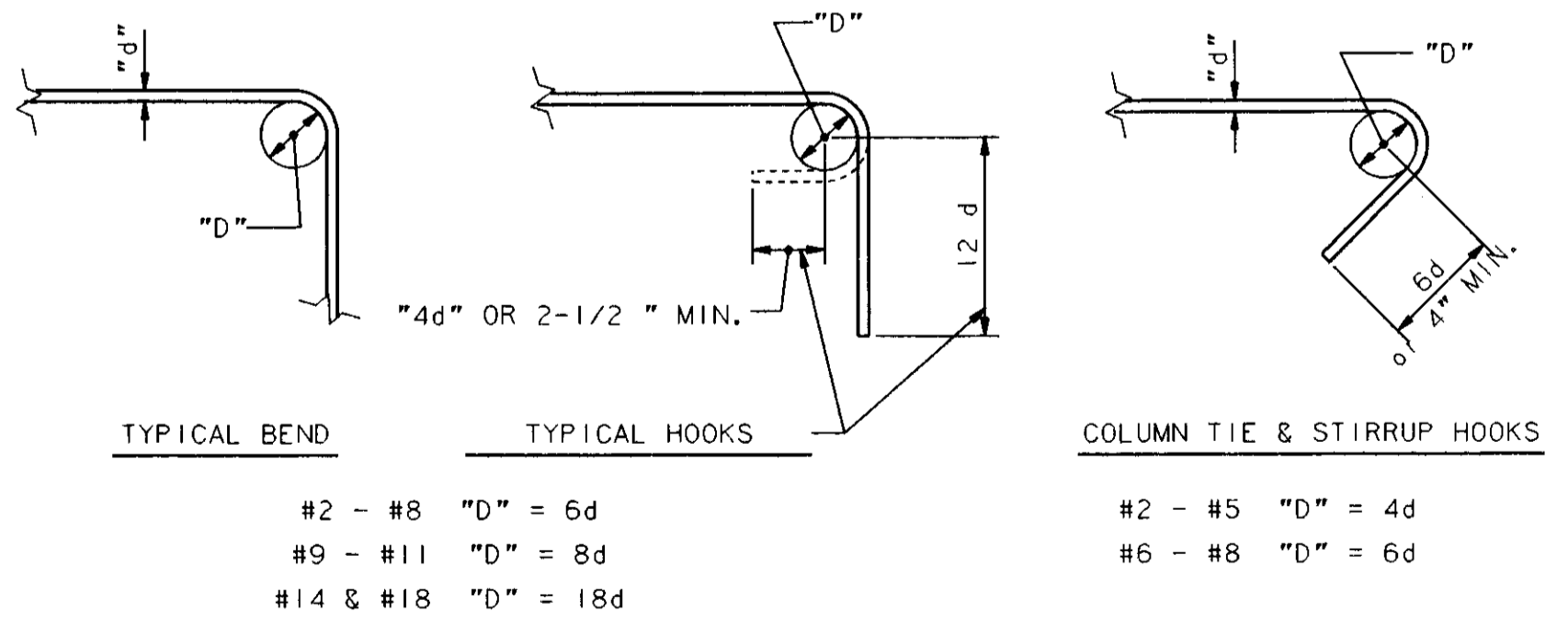
RAFTER NOTCH
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T605F ILE. 940553527, DET7
NO SCALE S2



CROSS BRIDGING
DETAIL
T605F ILE. 940553527, DET8
NO SCALE S2



FOOTING POUR OPTION
DETAIL
T605F ILE. 940553527, DET1
NO SCALE S2



TYPICAL REINFORCING BEND
DETAIL
T605F ILE. 940553527, DET2
NO SCALE S2

SU-2880

REVISION	DESCRIPTION	BY	APP	DATE

SCALE NONE	DATE AUGUST 1994	DESIGNED STH	SUBMITTED RECOMMENDED
FILE 93423	DRAWN LEL	CHECKED WHR	APPROVED

DEWANTE AND STOWELL
CONSULTING ENGINEERS
SACRAMENTO, CALIFORNIA

FLAG CITY
SAN JOAQUIN CO., CALIFORNIA
WASTEWATER TREATMENT FACILITIES

TYPICAL NOTES & DETAILS I

DRAWING NUMBER S2	SHEET NUMBER 23 of 44
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Cole/Yee/Schubert & Associates
Structural Engineers, Incorporated
Suite 200 2500 Venture Oaks Way
Sacramento, Ca. 95833 916/920-2020

GENERAL NOTES

1. TYPICAL DETAILS AND NOTES SHALL APPLY UNLESS OTHERWISE SHOWN OR NOTED ON PLANS.
2. DETAILS OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME NATURE AS SHOWN FOR SIMILAR CONDITION.
3. CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE CODES AND REGULATIONS.
4. PRIOR TO FABRICATION, SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW BY THE ENGINEER ON ALL STRUCTURAL STEEL AND REINFORCING STEEL. SHOP DRAWINGS: CONTRACTOR AGREES THAT SHOP DRAWING SUBMITTALS PROCESSED BY THE ENGINEER ARE NOT CHANGE ORDERS AND THAT THE PURPOSE OF SHOP DRAWING SUBMITTALS BY THE CONTRACTOR IS TO DEMONSTRATE TO THE ENGINEER THAT THE CONTRACTOR UNDERSTANDS THE DESIGN CONCEPT BY INDICATING WHICH MATERIAL HE INTENDS TO FURNISH AND INSTALL AND BY DETAILING THE FABRICATION AND INSTALLATION METHODS HE INTENDS TO USE.
5. SAFETY NOTE:
 A) IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE PERTINENT SECTIONS OF THE "CONSTRUCTION SAFETY ORDERS" ISSUED BY THE STATE OF CALIFORNIA, LATEST EDITION, AND ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
 B) THE ENGINEER AND THE OWNER DO NOT ACCEPT ANY RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS.
 C) THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE DESIGN AND CONSTRUCTION OF ALL FORMS AND SHORING REQUIRED.
6. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.
7. CONTRACTOR SHALL NOTIFY THE ENGINEER WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DRAWINGS OR DOCUMENTS. CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF STRUCTURES THAT IS IN CONFLICT UNTIL CONFLICT IS RESOLVED WITH THE AFFECTED PARTIES.

CONSTRUCTION LOADS

STRUCTURES HAVE BEEN DESIGNED FOR OWNER'S OPERATIONAL LOADS ON THE FINISHED STRUCTURES. DURING CONSTRUCTION, THE STRUCTURES SHALL BE PROTECTED BY BRACING AND BALANCING WHEREVER EXCESSIVE CONSTRUCTION LOADS MAY OCCUR. BACKFILL SHALL BE PLACED AROUND STRUCTURES SYMMETRICALLY AND UNIFORMLY SO THAT LOADS AGAINST STRUCTURES ARE INTRODUCED IN BALANCE. LIQUID-CONTAINING STRUCTURES SHALL BE TESTED FOR WATER-TIGHTNESS BEFORE BACKFILLING - SEE SPECS.

INSPECTION NOTES

1. GENERAL: INSPECTOR SHALL BE PRESENT DURING THE OPERATIONS LISTED BELOW.
2. CONCRETE: DURING THE TAKING OF TEST SPECIMENS AND PLACING OF ALL REINFORCED CONCRETE AND PNEUMATICALLY PLACED CONCRETE.
3. REINFORCING STEEL:
 A) DURING THE PLACING OF REINFORCING STEEL FOR ALL STRUCTURAL CONCRETE.
 B) DURING PLACING OF ALL INSERTS.
4. WELDING: DURING ALL STRUCTURAL WELDING, INCLUDING WELDING OF REINFORCING STEEL.

FOUNDATIONS

1. REFER TO RECOMMENDATIONS IN GEOTECHNICAL REPORT BY J.H. KLEINFELDER & ASSOCIATES, FILE NO. 20-2662-04, DATED DECEMBER 20, 1988.
2. BEARING SOIL IS CLASSIFIED AS ENGINEERED FILL WITH AN ALLOWABLE BEARING PRESSURE OF 3500 PSF D.L. + L.L. ELECTRICAL BUILDING 3000 PSF D.L. + L.L. PUMP STATION 8000 PSF D.L. + L.L.
3. BOTTOM ELEVATION OF FOOTINGS NOTED THUS ON FOUNDATION PLAN: -(2'-0")
4. THE FOOTINGS SHALL BEAR ON FIRM, DRY OR ENGINEERED FILL WITH A MINIMUM PENETRATION OF 18 INCHES. SEE GEOTECH REPORT.
5. EXCAVATIONS SHALL BE CLEANED OF ALL DEBRIS. STANDING WATER SHALL BE REMOVED.
6. ALL FOOTINGS SHALL BE FORMED. FOUNDATIONS MAY BE PLACED IN NEAT EXCAVATIONS PROVIDED WRITTEN PERMISSION IS OBTAINED FROM THE ENGINEER AND FOOTINGS ARE INCREASED 2" IN WIDTH. SEE TYPICAL DETAIL.
7. NOTIFY THE ENGINEER 48 HOURS BEFORE PLACING FOUNDATIONS.

WATER STOPS FOR CONCRETE CONST.

1. ALL WATER STOPS SHALL BE INSTALLED ACCORDING TO THE MANUFACTURERS SPECIFICATIONS TO GIVE A WATERTIGHT JOINT.
2. WATER STOPS SHALL BE CAREFULLY POSITIONED IN PLACE AND SUPPORTED AS REQUIRED TO REMAIN IN PLACE DURING OPERATIONS.
3. WATERSTOPS MUST BE USED WHERE LIQUID OR EARTH RETAINING STRUCTURES ARE ADJACENT TO DRY AREAS OF THE STRUCTURE AND WHERE LIQUID RETAINING STRUCTURES ARE EXPOSED TO THE EXTERIOR.
4. LIQUID RETAINING STRUCTURES MUST BE TESTED FOR WATER TIGHTNESS (SEE SPECS). WATERSTOPS MAY BE USED TO ASSURE WATERTIGHTNESS AT CONTRACTOR'S OPTION.

CONCRETE AND REINFORCING STEEL

1. CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 318-89.
2. THE MINIMUM 28 DAY STRENGTH AND TYPE OF CONCRETE SHALL BE AS FOLLOWS:
 ALL NON-STRUCTURAL CONCRETE 150 PCF, F'c = 2500 PSI
 CONCRETE FOR LIQUID-CONTAINING STRUCTURES .. 150 PCF, F'c = 3500 PSI
 ALL OTHER STRUCTURAL CONCRETE..... 150 PCF, F'c = 3000 PSI
3. CEMENT SHALL CONFORM TO ASTM C-150 TYPE II.
4. CONCRETE AGGREGATES: NATURAL SAND AND ROCK AGGREGATES CONFORMING TO ASTM C-33.
5. REINFORCING SHALL CONFORM TO ASTM A615 GRADE 60, EXCEPT STIRRUPS AND TIES SHALL BE GRADE 40.
6. WELDING OF REINFORCING STEEL SHALL CONFORM TO AWS D1.4 USING PROPER LOW HYDROGEN ELECTRODES. TACK WELDING TO REBAR IS STRICTLY PROHIBITED. SEE "REBAR WELDING".
7. REINFORCING STEEL SHALL BE DETAILED, FABRICATED, AND INSTALLED ACCORDING TO MANUAL OF STANDARD PRACTICE FOR REINFORCED CONCRETE CONSTRUCTION" BY WCRSI.
8. WIRE FABRIC SHALL CONFORM TO ASTM A-185.
9. DIMENSIONS SHOWN FOR LOCATION OF REINFORCING ARE TO THE FACE OF MAIN BARS AND DENOTE CLEAR COVERAGE. UNLESS OTHERWISE NOTED, CONCRETE COVERAGE SHALL BE AS FOLLOWS:
 CONCRETE DEPOSITED DIRECTLY AGAINST GROUND (EXCEPT SLABS) 3"
 FORMED CONCRETE EXPOSED TO WEATHER OR GROUND OR LIQUID -- #6 AND LARGER 2"
 #5 AND SMALLER 1-1/2"
 BEAMS (TOP BARS)..... 1-1/2"
 BEAMS (ALL OTHER MAIN REINFORCING)..... 2"
 COLUMN MAIN REINFORCING 2"
 WALLS AND SLABS (INTERIOR DRY FACES)..... 3/4"
 SLABS ON GROUND WITH ONE LAYER OF REINFORCEMENT POSITION IN CENTER OF SLAB.
10. A) ALL BARS SHALL HAVE A CLASS B MINIMUM SPLICE LAP UNLESS OTHERWISE NOTED. SEE "REINFORCEMENT LAP SPLICES IN INCHES".
 B) DOWEL ALL VERTICAL REBARS IN WALLS AND COLUMNS FROM FOUNDATION WITH SAME SIZE BAR.
 C) SPLICES IN ADJACENT BARS SHALL BE NOT LESS THAN 5'-0" APART.
 D) SPLICE CONTINUOUS BARS IN SOIL-BEARING GRADE BEAMS AS FOLLOWS: BOTTOM BARS AT MID-SPAN; TOP BARS AT CENTERLINE OF SUPPORT, UNLESS NOTED OTHERWISE.
 E) SPLICE CONTINUOUS BARS IN BEAMS, SPANDRELS, WALL BEAMS ETC. AS FOLLOWS: BOTTOM BARS AT CENTERLINE OF SUPPORT; TOP BARS AT MIDSPAN, UNLESS NOTED OTHERWISE.
 F) REINFORCING BARS SHALL BE RUN IN A MANNER THAT FORMS A CONTINUOUS SYSTEM OF BARS TYING ALL PARTS OF THE STRUCTURE TOGETHER. EXTEND ALL REINFORCING BARS AS FAR AS POSSIBLE IN EACH CONCRETE MEMBER AND TERMINATE BAR TO PROVIDE 2" OF CONCRETE COVER OVER END OF BAR OR FACE OF BEND.
 G) BEAM STIRRUPS AND COLUMN TIES SHALL HOOK 135 DEGREES AROUND A CORNER BAR UNLESS OTHERWISE SHOWN.
11. GENERAL:
 A) NO PIPES OR DUCTS SHALL BE PLACED IN CONCRETE SLABS, BEAMS, WALLS OR GRADE BEAMS UNLESS SPECIFICALLY DETAILED.
 B) REFER TO ARCHITECTURAL, STRUCTURAL, AND MECHANICAL DRAWINGS FOR ALL OPENINGS, FLANGES, MOULDS, GROOVES, CLIPS AND GROUNDS TO BE CAST IN CONCRETE.
 12. CONSTRUCTION JOINTS SHALL BE MADE ROUGH AND ALL LAITANCE REMOVED FROM THE SURFACE. CONCRETE MAY BE ROUGHENED BY CHIPPING THE ENTIRE SURFACE, SANDBLASTING, OR HOSING THE SURFACE 4 TO 6 HOURS AFTER THE POUR WITH A FINE SPRAY.
 13. REMOVE ALL DEBRIS FROM THE FORMS BEFORE PLACING ANY CONCRETE.
 14. REINFORCING, DOWELS, BOLTS, ANCHORS, SLEEVES, ETC. TO BE EMBEDDED IN CONCRETE SHALL BE SECURELY POSITIONED BEFORE PLACING CONCRETE. OBTAIN APPROVAL OF ALL AFFECTED TRADES PRIOR TO PLACING CONCRETE.
 15. MAXIMUM FREE FALL OF CONCRETE SHALL BE 4'-0".
 16. WALLS SHALL BE PLACED IN HORIZONTAL LAYERS OF 2'-0" MAX. DEPTH.
 17. CONCRETE IN WALLS, PIERS, OR COLUMNS SHALL SET AT LEAST 2 HOURS BEFORE PLACING CONCRETE IN BEAMS, SPANDRELS, OR SLABS SUPPORTED THEREON.
 18. REINFORCE ALL SLABS ON GRADE AS SHOWN ON DRAWINGS.
 19. HORIZONTAL WALL BARS IN DOUBLE LAYER WALLS SHALL BE STAGGERED. USE #2 SPREADERS APPROXIMATELY EVERY THIRD INTERSECTION EACH DIRECTION FOR ALL DOUBLE LAYER WALLS. PLACE SPREADERS IN VERTICAL LINES WITH FORM TIES.
 20. NO WOOD SPREADERS ARE ALLOWED. NO WOOD STAKES ARE ALLOWED IN AREAS TO BE CONCRETED.
 21. MINIMUM WALL REINFORCING SHALL BE:
 WALL THICKNESS SINGLE LAYER DOUBLE LAYER
 7" OR LESS #4 AT 12" cc E.W.
 8" #4 AT 10" cc E.W.
 9" AND 10" #4 AT 16" cc E.W.
 11" AND 12" #4 AT 12" cc E.W.
22. CONCRETE MIX DESIGN SHALL BE SUBMITTED FOR ENGINEER'S REVIEW PRIOR TO PLACING CONCRETE.
23. NOTIFY THE ENGINEER 48 HOURS PRIOR TO PLACING CONCRETE.

REBAR WELDING

ALL REBAR TO BE WELDED SHALL BE CONTINUOUSLY INSPECTED BY A QUALIFIED LABORATORY. CONTRACTOR MUST FURNISH TO THE LABORATORY MILL CERTIFICATES SHOWING CHEMICAL ANALYSIS. ALL PREHEATING AND WELDING SHALL BE DONE IN ACCORDANCE WITH AWS D1.4 STANDARDS (LATEST EDITION).

MASONRY

1. CONCRETE BLOCK UNITS SHALL CONFORM TO ASTM C-90 GRADE N, TYPE I WITH 1900 PSI MIN. COMPRESSIVE STRENGTH. F'm = 1500 PSI.
2. MORTAR SHALL BE TYPE S CONFORMING TO UBC STANDARD 24-20; 1800 PSI.
3. GROUT SHALL CONFORM TO UBC 1991 WITH 2000 PSI MINIMUM.
4. REINFORCING STEEL SHALL BE THE SAME AS NOTE 5 UNDER CONCRETE.
5. LAP ALL BARS 48 BAR DIAMETERS.
6. DRILL THROUGH STEEL BEAMS TO PASS REBAR (1" DIA. MAXIMUM).
7. BEFORE BLOCK IS PLACED ON CONCRETE, THOROUGHLY CLEAN CONCRETE OF ALL LAITANCE AND ALL LOOSE MATERIAL. ROUGHEN AS IN A CONCRETE CONSTRUCTION JOINT.
8. CONCRETE BLOCK MASONRY SHALL BE BUILT TO PRESERVE THE UNOBSTRUCTED CONTINUITY OF THE VERTICAL CELLS. WALLS AND CROSS WEBS SHALL BE FULL BEDDED IN MORTAR GROUT. ALL HEAD OR END JOINTS SHALL BE SOLIDLY FILLED WITH MORTAR FOR A DISTANCE IN FROM THE FACE OF THE WALL OR UNIT NOT LESS THAN THE THICKNESS OF THE LONGITUDINAL FACE SHELLS.
9. VERTICAL CELLS SHALL HAVE VERTICAL ALIGNMENT SUFFICIENT TO MAINTAIN A CLEAR UNOBSTRUCTED, CONTINUOUS VERTICAL CELL MEASURING NOT LESS THAN 2" x 3".
10. CLEAN OUT OPENINGS SHALL BE PROVIDED AT THE BOTTOMS OF ALL CELLS TO BE FILLED AT EACH LIFT OR POUR OF GROUT WHERE SUCH LIFT OR POUR OF GROUT IS IN EXCESS OF 4'-0" IN HEIGHT. ANY OVERHANGING MORTAR OR OTHER OBSTRUCTION OR DEBRIS SHALL BE REMOVED FROM INSIDE OF SUCH CELLS. THE CLEANOUTS SHALL BE SEALED AFTER INSPECTION AND BEFORE GROUTING.
11. VERTICAL REINFORCING SHALL BE HELD IN POSITION AT TOP AND BOTTOM AND AT INTERVALS NOT EXCEEDING 192 BAR DIAMETERS.
12. WHEN GROUTING IS STOPPED FOR ONE HOUR OR LONGER, HORIZONTAL CONSTRUCTION JOINTS SHALL BE FORMED BY STOPPING THE POUR 1-1/2" BELOW THE TOP OF THE UPPERMOST UNIT.
13. PLACE ALL HORIZONTAL BARS IN BOND BEAM UNITS. WHEN 2 BARS ARE USED, STAGGER LAPS 6'-0" MINIMUM.
14. PROVIDE DOWEL TO FOUNDATION OF EQUAL DIAMETER AND 48 BAR DIAMETER LAP TO EACH VERTICAL BAR IN WALLS, PIERS, COLUMNS, ETC. DOWELS SHALL BE STRAIGHT AND PLUMB.
15. ALL CONCRETE BLOCK UNITS SHALL BE OPEN END BOND BEAM UNITS.

STRUCTURAL STEEL SUBMIT SHOP DRAWINGS BEFORE FABRICATING)

1. FABRICATION, ERECTION AND MATERIALS SHALL CONFORM WITH THE AISC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS AND UBC, 1991 EDITION.
2. STRUCTURAL STEEL SHALL CONFORM TO ASTM A-36.
3. PIPE COLUMNS SHALL CONFORM TO ASTM A53, TYPE E OR S, GRADE B.
4. TUBE COLUMNS SHALL CONFORM TO ASTM A500, GRADE B.
5. WELDING SHALL BE DONE BY THE ELECTRIC ARC PROCESS IN ACCORDANCE WITH "AWS" STANDARDS, USING ONLY CERTIFIED WELDERS. ALL BUTT WELDS SHALL HAVE COMPLETE PENETRATION. ALL EXPOSED BUTT WELDS SHALL BE GROUND.
6. PLACE NON-SHRINK GROUT UNDER ALL BEARINGS ON CONCRETE OR MASONRY BEFORE ADDING VERTICAL LOAD.
7. ALL STRUCTURAL STEEL SHALL BE ERECTED PLUMB AND TRUE TO LINE. TEMPORARY BRACING SHALL BE INSTALLED AND SHALL BE LEFT IN PLACE UNTIL OTHER MEANS IS PROVIDED TO ADEQUATELY BRACE THE STRUCTURE.
8. HOLES FOR BOLTS SHALL BE OF THE SAME NOMINAL DIAMETER AS THE BOLT PLUS 1/16".
9. USE STANDARD AISC GAGE AND PITCH FOR BOLTS EXCEPT AS NOTED OTHERWISE.
10. PROVIDE 1/2" DIAMETER STITCH BOLTS AND RING FILLS, SPACED AT NOT MORE THAN 2'-0" ON CENTERS FOR ALL DOUBLE ANGLE MEMBERS.
11. WRAP STRUCTURAL STEEL EMBEDDED IN CONCRETE WITH 6X6-WA.4XW.1.4 E.W.F. DO NOT PAINT EMBEDDED AREAS.
12. HIGH STRENGTH BOLTS SHALL BE 3/4" DIA. ASTM A-325 F U.N.O. SEE SPECIFICATIONS.

WELDING REQUIREMENTS

1. WELDING SHALL BE DONE BY THE ELECTRIC ARC OR THE ELECTRO-FLUX PROCESS IN ACCORDANCE WITH "A.S.M.E." STANDARDS, USING ONLY CERTIFIED WELDERS. ALL BUTT WELDS SHALL HAVE COMPLETE PENETRATION. ALL WELDS SHALL BE CLEANED OF SLAG BEFORE GALVANIZING.

REINFORCEMENT LAP SPLICES IN INCHES

SPLICE	BAR SIZE	F'c (PSI)	GRADE 60								TOP BARS	BOTT BARS	
			#4	#4	#5	#6	#7	#8	#9	#10			#11
CLASS B	3000		18	28	35	42	49	59	74	94	116		
			14	22	27	32	38	45	57	73	89		
CLASS B	3500		17	26	32	39	45	54	69	87	107		
			13	20	25	30	35	42	53	67	83		

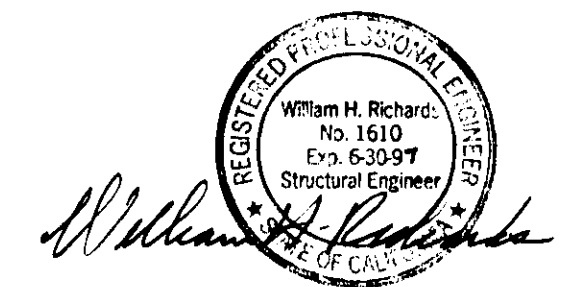
TOP BARS REFERS TO ANY HORIZONTAL REINFORCEMENT SO PLACED THAT MORE THAN 12" OF CONCRETE IS CAST IN THE MEMBER BELOW THE REINFORCEMENT.

REVISION	DESCRIPTION	BY	APP	DATE

ABBREVIATIONS

ADNL.	ADDITIONAL	
A.B.	AGGREGATE BASE	
ARCH.	ARCHITECTURAL	
BETW.	BETWEEN	
BEV.	BEVELED	
BM.	BEAM	
BOTT.	BOTTOM	
BRG.	BEARING	
CHKD.	CHECKERED PLATE	
CLR.	CLEAR	
CL.	CENTER LINE	
C.C.	CENTER TO CENTER	
C.M.U.	CONCRETE MASONRY UNIT	
COL.	COLUMN	
CONC.	CONCRETE	
CONSTR JT.	CONSTRUCTION JOINT	
CONT. (CONTIN.)	CONTINUOUS	
C.J.	CONTROL JOINT (CONTRACTION JOINT)	
DIA.	DIAMETER	
DIM.	DIMENSION	
DN.	DOWN	
EA.	EACH	
E.F.	EACH FACE	
E.J.	EXPANSION JOINT	
EL. (ELEV.)	ELEVATION	
E.W.F.	ELECTRICALLY WELDED FABRIC	
EQ.	EQUAL	
E.N.	EDGE NAILING	
E.S.	EDGE OF SLAB	
E.W.	EACH W/Y	
F.B.	FACE OF BLOCK	
F.C.	FACE OF CONCRETE	
F.D.	FLOOR DRAIN	
FIN. FLR.	FINISHED FLOOR	
FIN. GRD.	FINISHED GRADE	
FLG.	FLANGE	
FTG.	FOOTING	
GAGE	GAGE	
G.A.F.	GALVANIZED AFTER FABRICATION	
GALV.	GALVANIZED	
H.A.	HAND RAIL	
H.	HIGH	
H.S.B.	HIGH STRENGTH BOLT	
HORIZ.	HORIZONTAL	
K.P.	KICK PLATE	
L.	LONG	
L.S.	LAG SCREW	
MANUF.	MANUFACTURER	
MAX.	MAXIMUM	
M.B.	MACHINE BOLT	
MECH.	MECHANICAL	
MIN.	MINIMUM	
N.T.S.	NOT TO SCALE	
O.H.	OPPOSITE HAND	
PL.	PLATE	
REINF.	REINFORCING	
DIA.	ROUND, DIAMETER	
REQ'D.	REQUIRED	
SIM.	SIMILAR	
S.S.	STAINLESS STEEL	
STIFF.	STIFFENER	
STAG.	STAGGER	
SO.	SQUARE	
SYM.	SYMMETRICAL	
T & B	TOP AND BOTTOM	
T.O.B.	TOP OF BLOCK	
T.O.C.	TOP OF CONCRETE	
T.S.	TOP OF SLAB	
T.O.S.	TOP OF STEEL	
T.W.	TOP OF WALL	
TYP.	TYPICAL	
U.N.O. (U.O.N.)	UNLESS NOTED OTHERWISE	
VERT.	VERTICAL	
W.S.	WATERSTOP	
W.	WIDE	
W.P.	WORKING POINT	

SU-2881

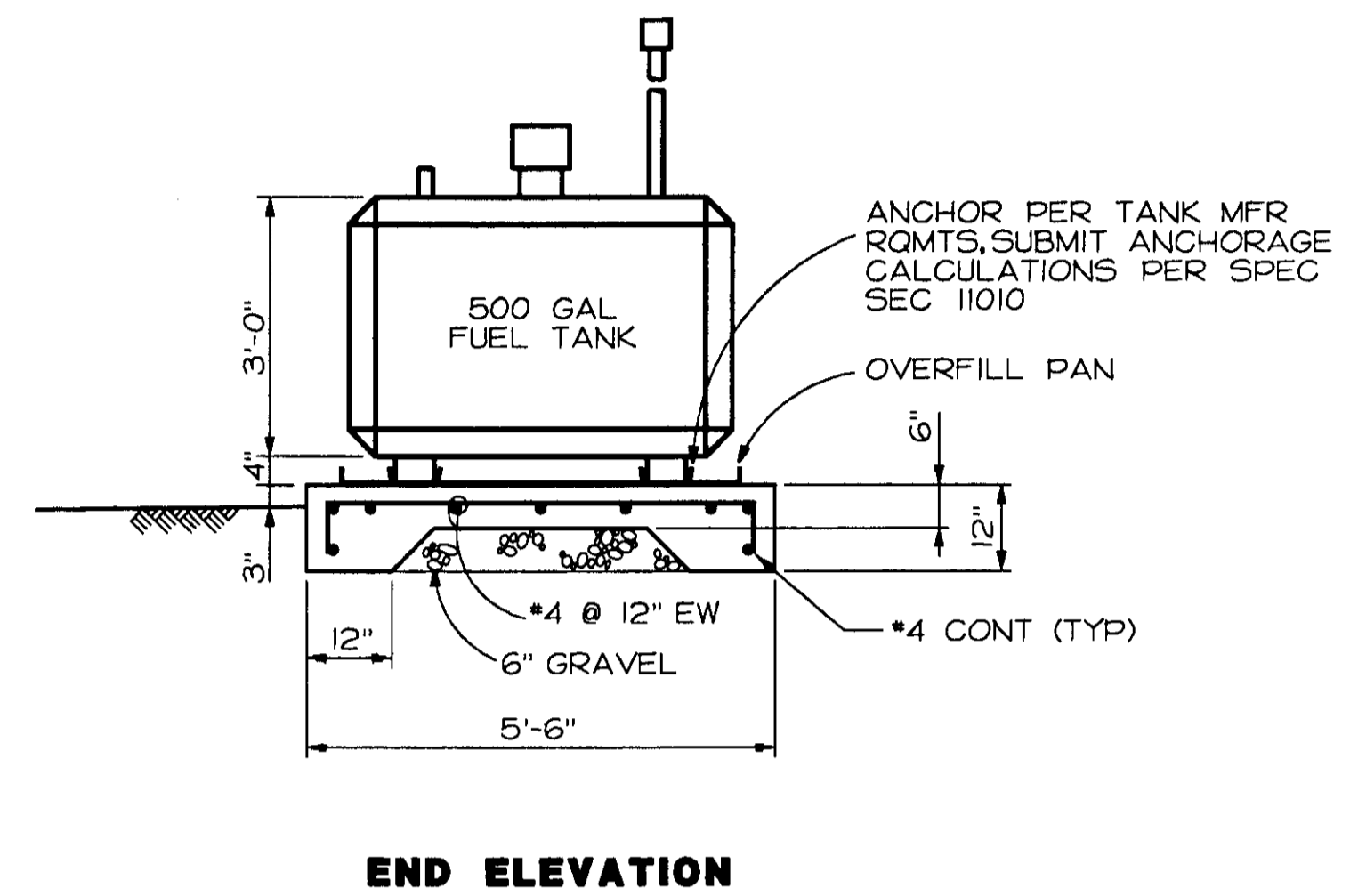


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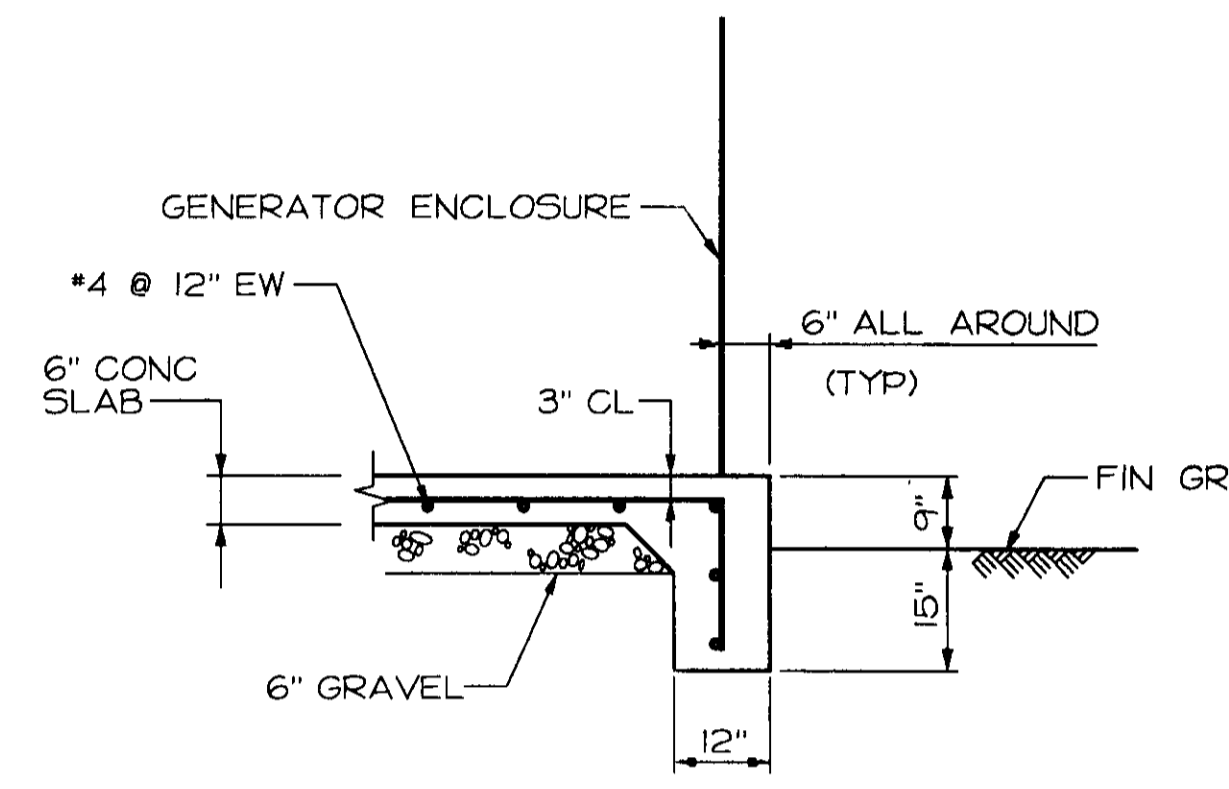
Cole/Yee/Schubert & Associates
 Structural Engineers, Incorporated
 Suite 200 2500 Venture Oaks Way
 Sacramento, Ca. 95833 916/920-2020

SCALE NONE	DATE AUGUST 1994 FILE 93423	DESIGNED STH DRAWN LEL CHECKED WHR	SUBMITTED RECOMMENDED APPROVED	DEWANTE AND STOWELL CONSULTING ENGINEERS SACRAMENTO, CALIFORNIA	FLAG CITY SAN JOAQUIN CO., CALIFORNIA WASTEWATER TREATMENT FACILITIES	TYPICAL STRUCTURAL NOTES	DRAWING NUMBER S1	SHEET NUMBER 22 of 44
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REVISION	DESCRIPTION	BY	APP	DATE

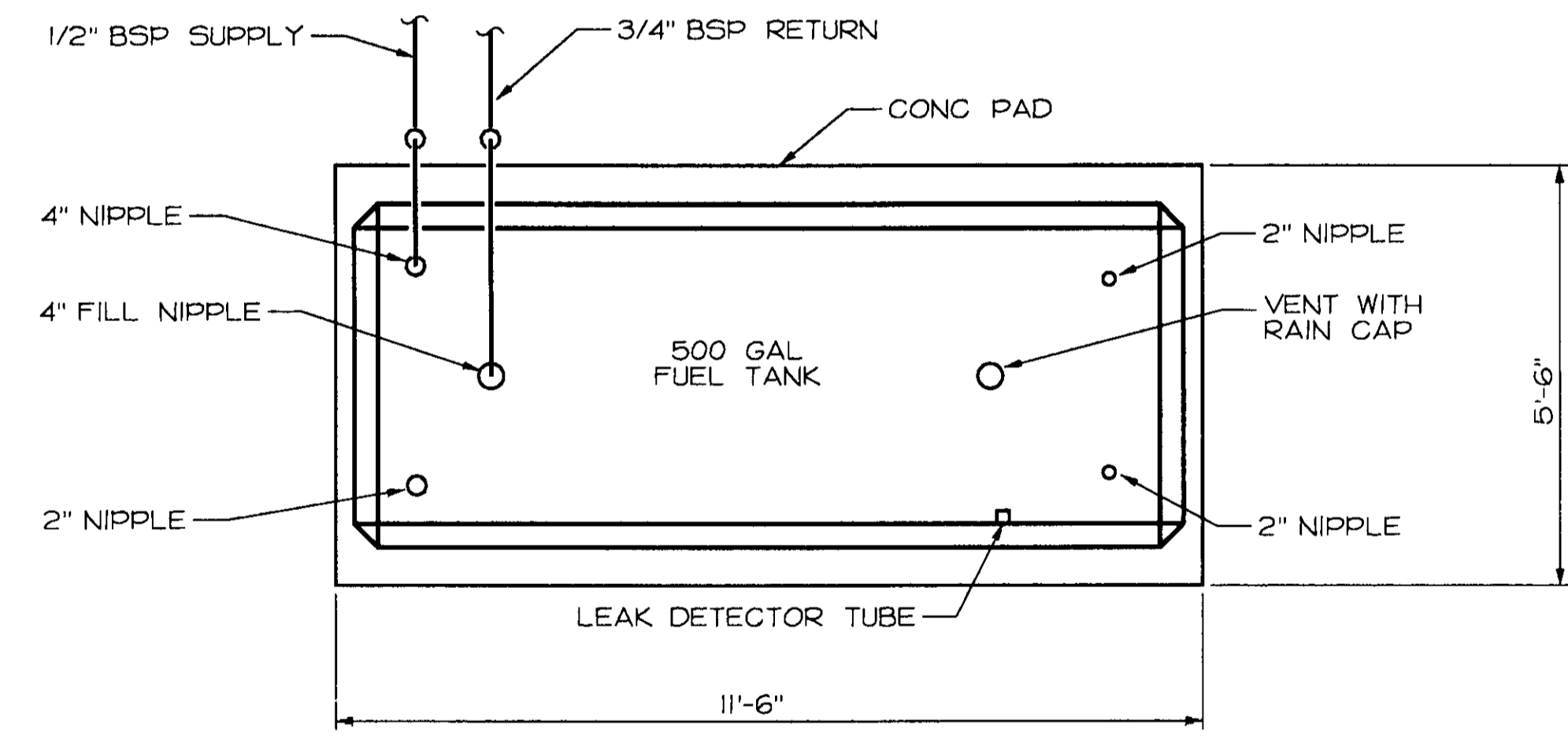


END ELEVATION



GENERATOR PAD

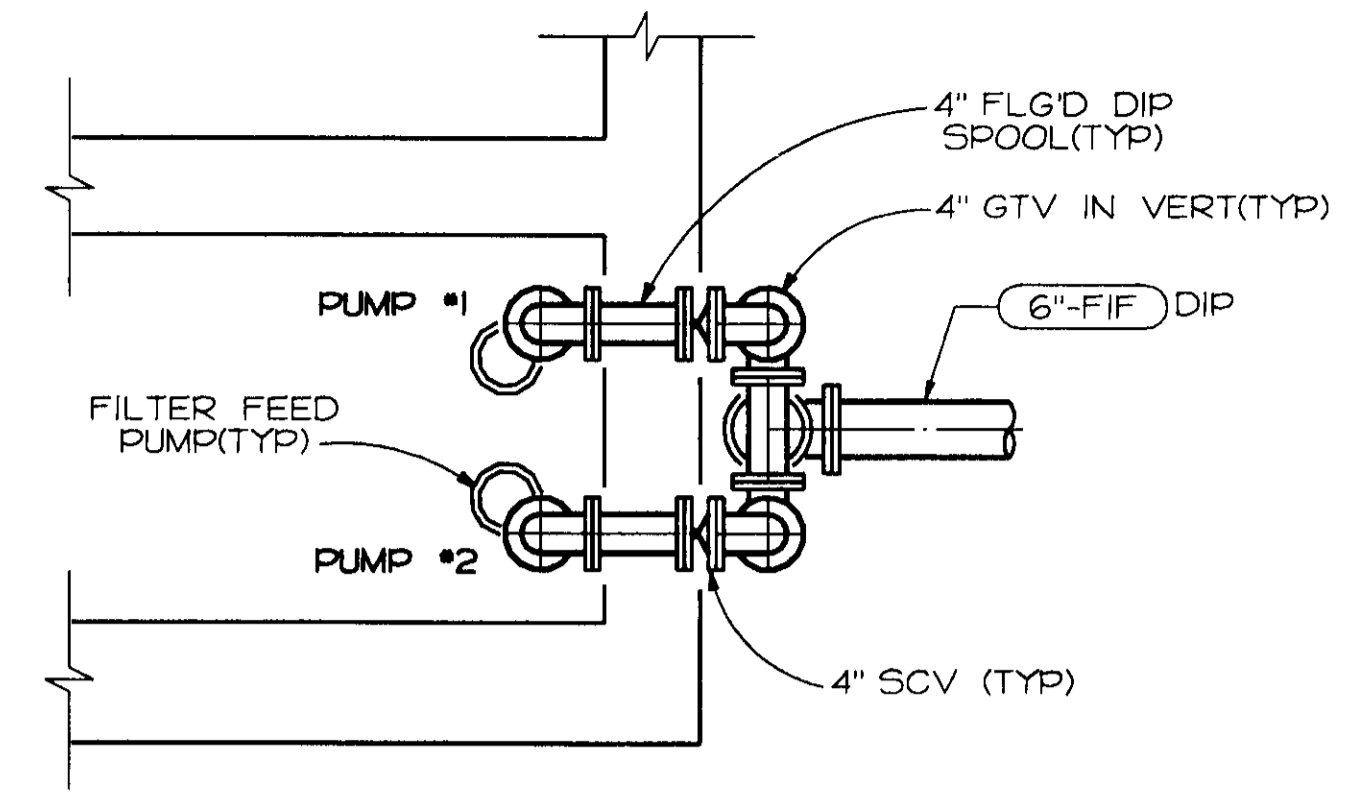
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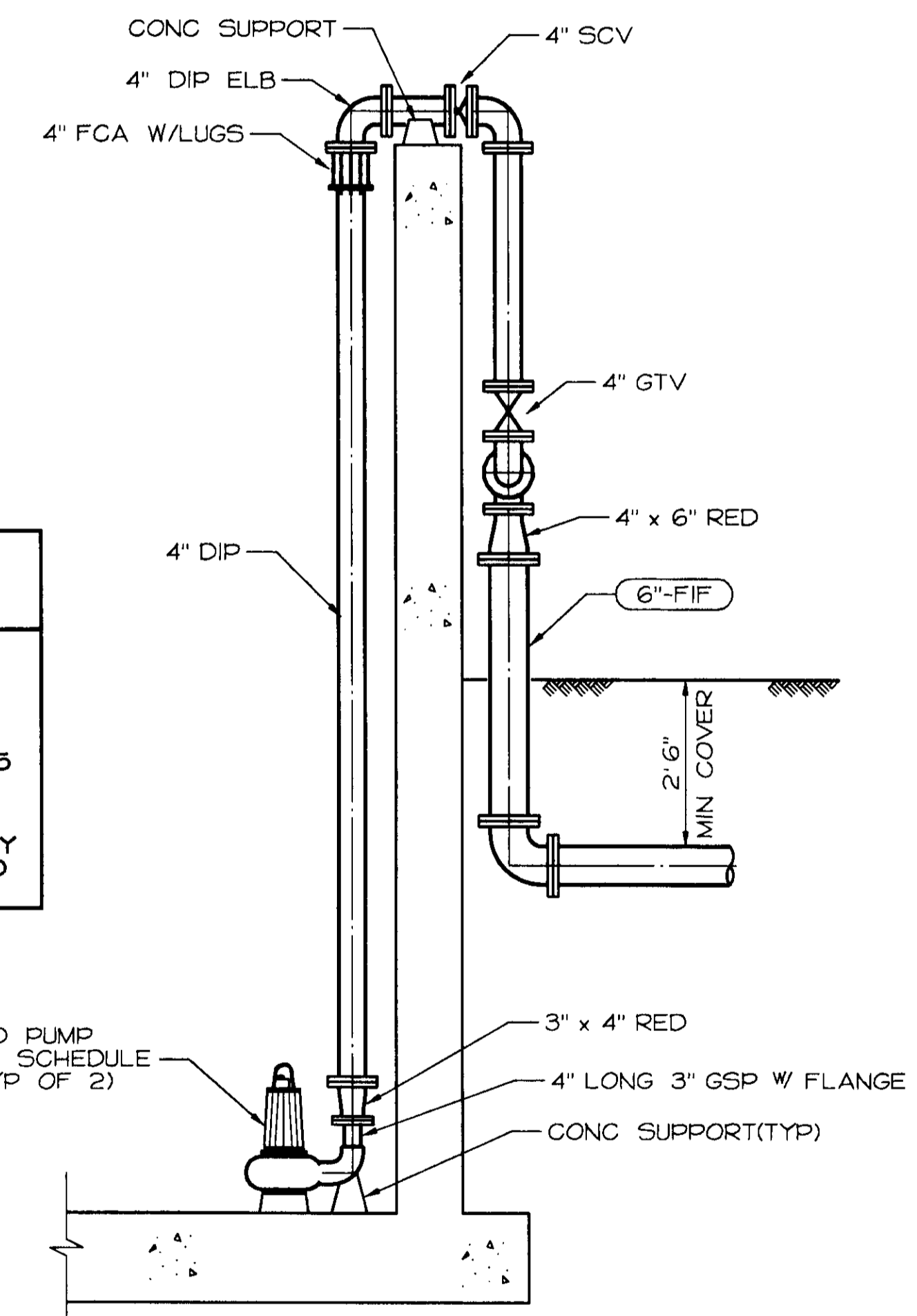
PLAN VIEW

FUEL STORAGE TANK

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



PARTIAL PLAN



SECTION

FILTER FEED PIPING

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

FILTER PUMP ON/OFF SCHEDULE

PRIMARY PUMP ON @ EL 15.75
 PRIMARY PUMP OFF @ EL 3.75
 SECONDARY PUMP ON @ EL 16.75
 SECONDARY PUMP OFF @ EL 14.75
 ALARM @ EL 16.5

ALTERNATE PUMPS AUTOMATICALLY
 NORMALLY ONLY ONE PUMP REQD

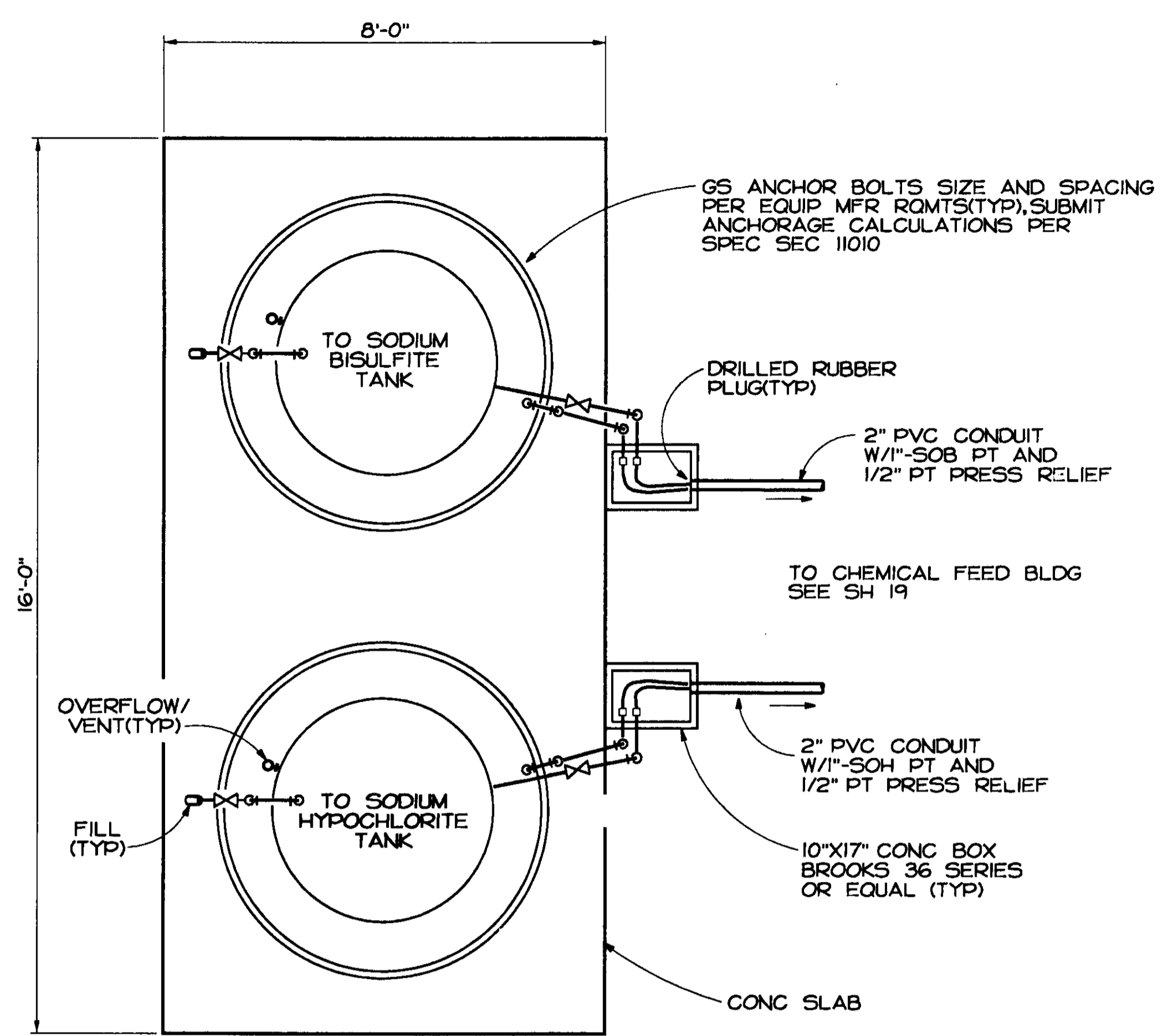
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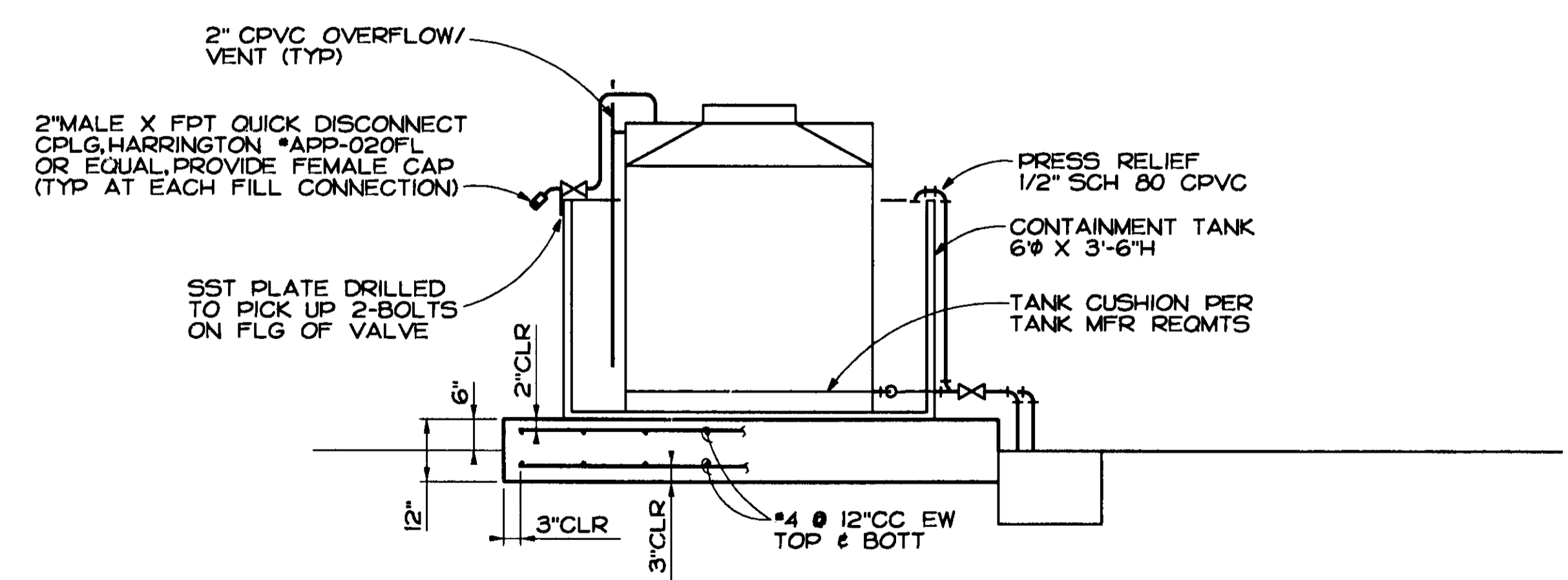
SCALE AS NOTED	DATE AUGUST 1994	DESIGNED ERS	SUBMITTED	DEWANTE AND STOWELL CONSULTING ENGINEERS SACRAMENTO, CALIFORNIA	FLAG CITY SAN JOAQUIN CO., CALIFORNIA	EMERGENCY STANDBY GENERATOR FUEL STORAGE TANK AND MISC DETAILS	DRAWING NUMBER	SHEET NUMBER
	FILE 93423	DRAWN MVW	RECOMMENDED					
		CHECKED ERS	APPROVED				21 OF 44	

REVISION	DESCRIPTION	BY	APP	DATE
A	RECORD DWG. CHANGES INCORP.	DCL	RMD	6-95



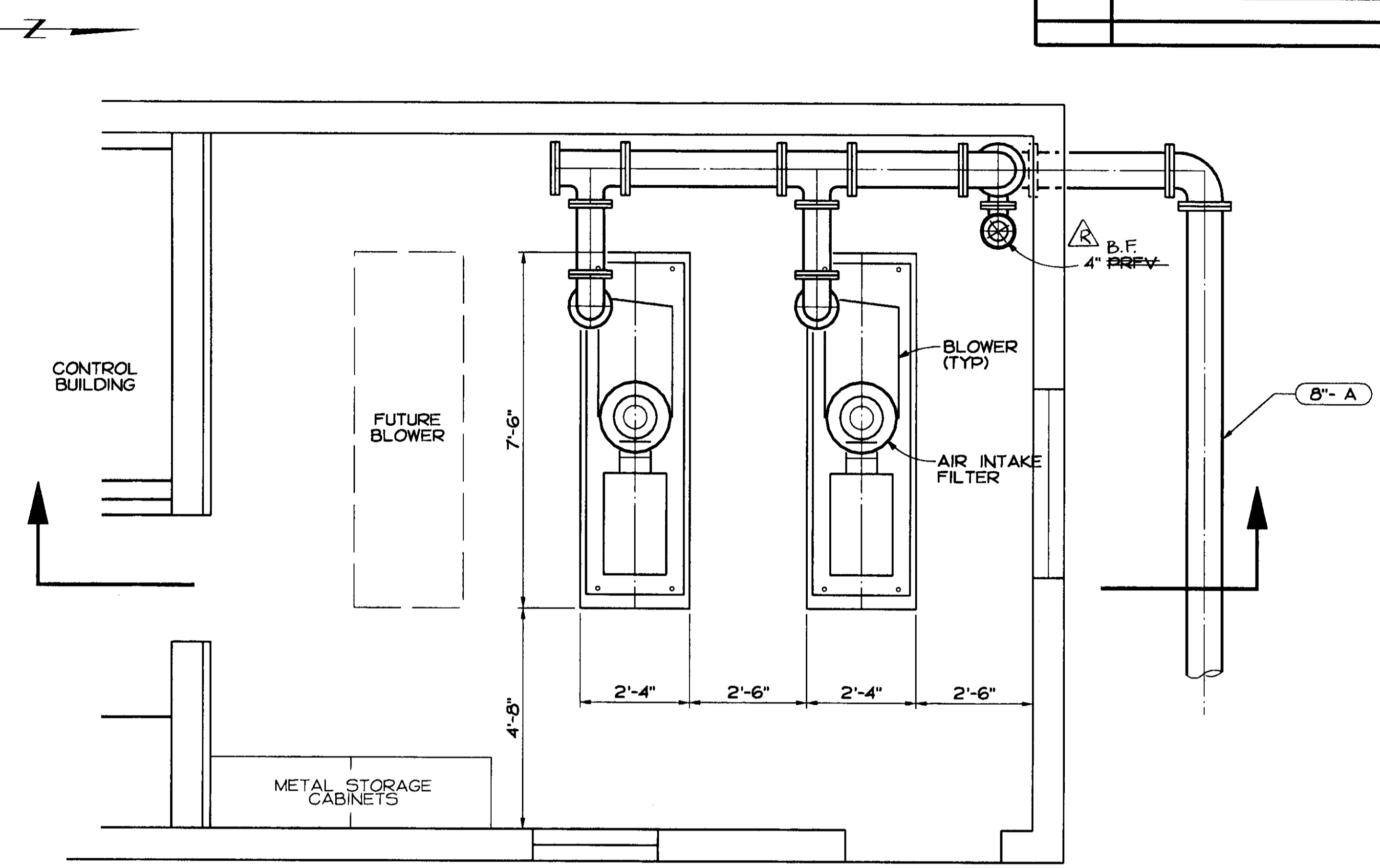
STORAGE TANK PLAN

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



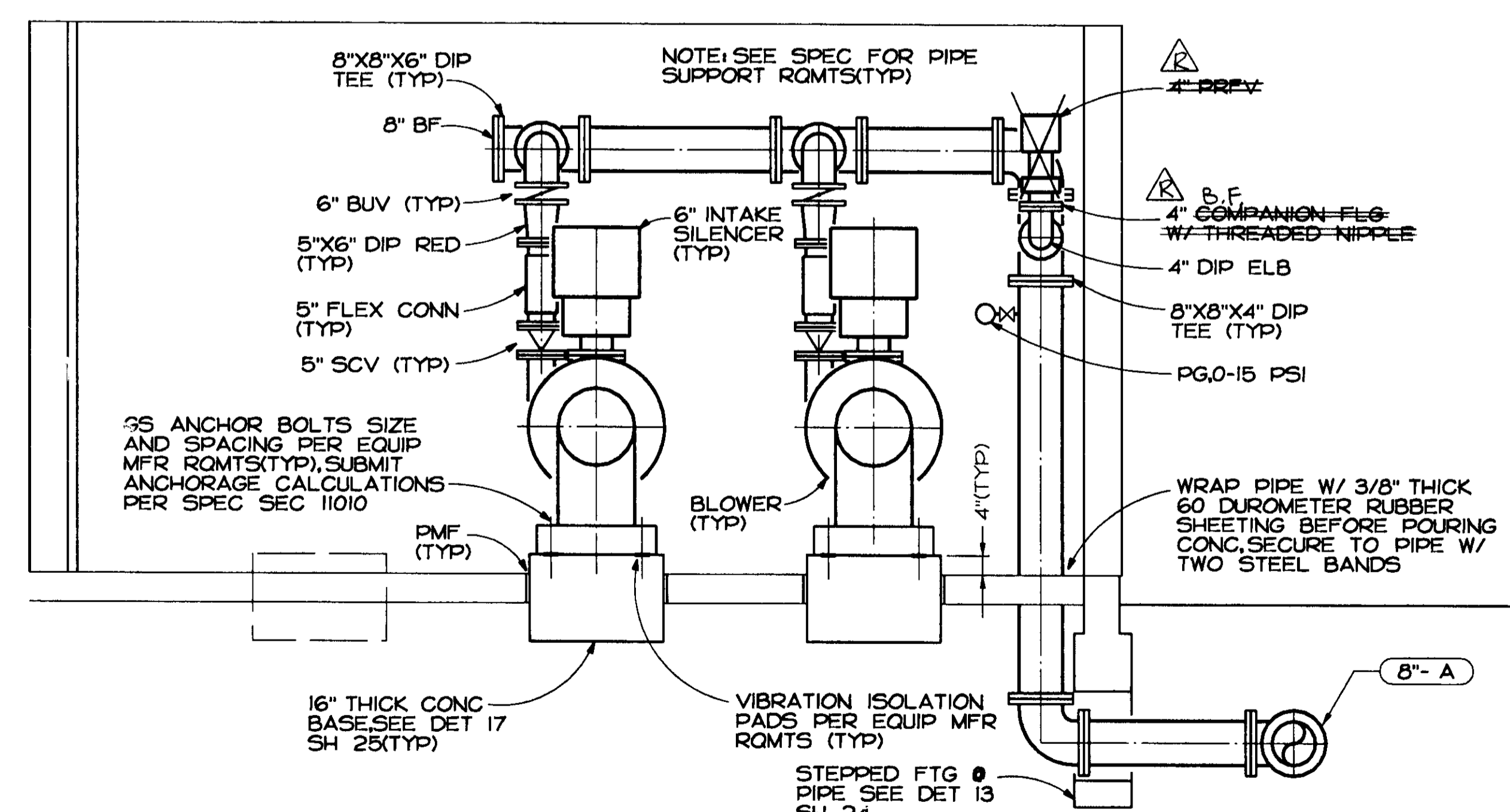
TYPICAL SECTION

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



BLOWER ROOM PLAN

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



BLOWER ROOM SECTION

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

RECORD DRAWING



5885

DATE: 8/23/94
FILE: 93423
PROJECT: CHEMICAL STORAGE TANKS

SCALE 1/2" = 1'-0"	DATE AUGUST 1994	DESIGNED ERS	SUBMITTED
	FILE 93423	DRAWN RRR	RECOMMENDED
		CHECKED ERS	APPROVED

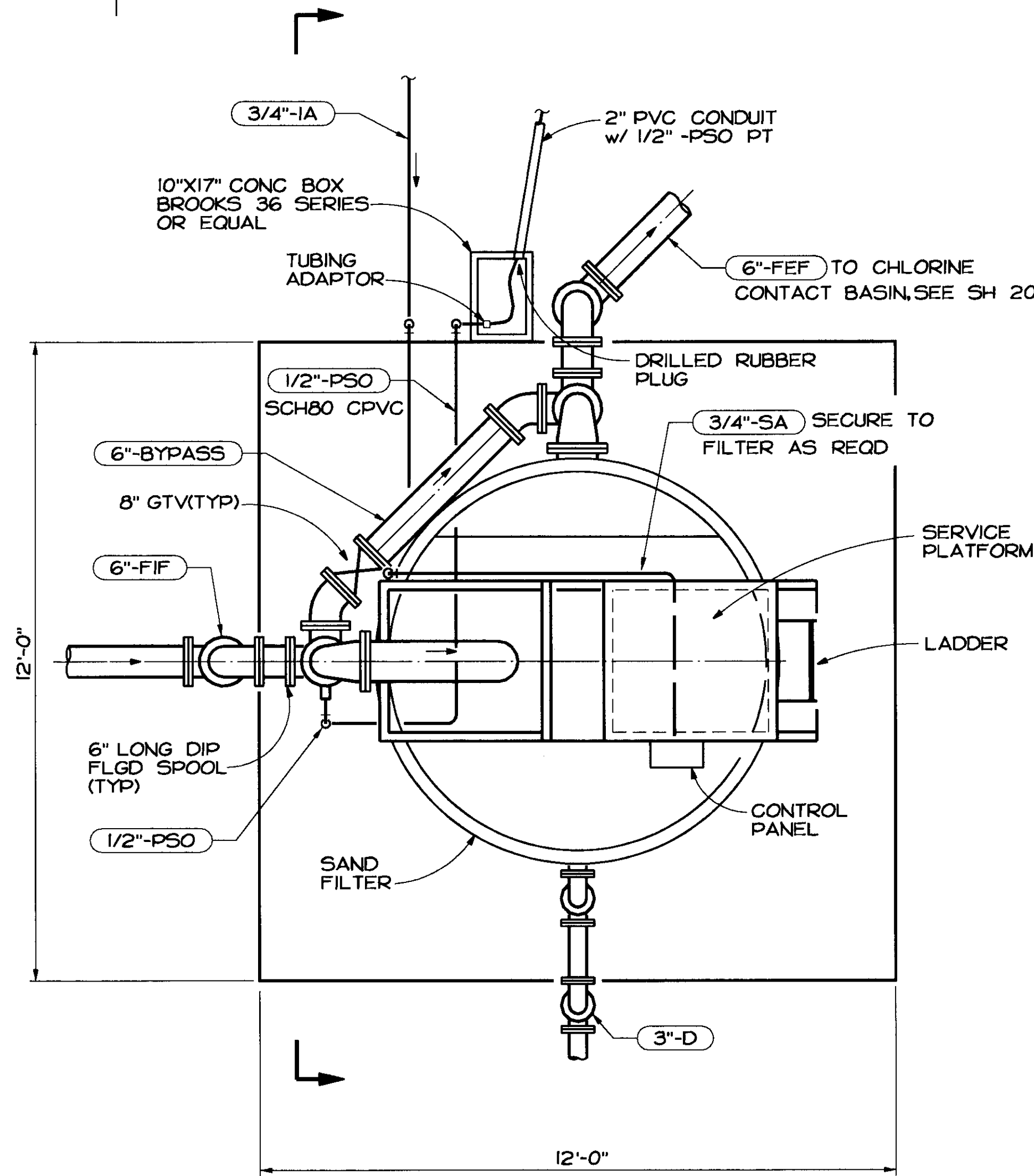
DEWANTE AND STOWELL
CONSULTING ENGINEERS
SACRAMENTO, CALIFORNIA

FLAG CITY
SAN JOAQUIN CO., CALIFORNIA
WASTEWATER TREATMENT FACILITIES

CHEMICAL STORAGE TANKS
PLAN AND SECTION

DRAWING NUMBER	SHEET NUMBER
	18 OF 44

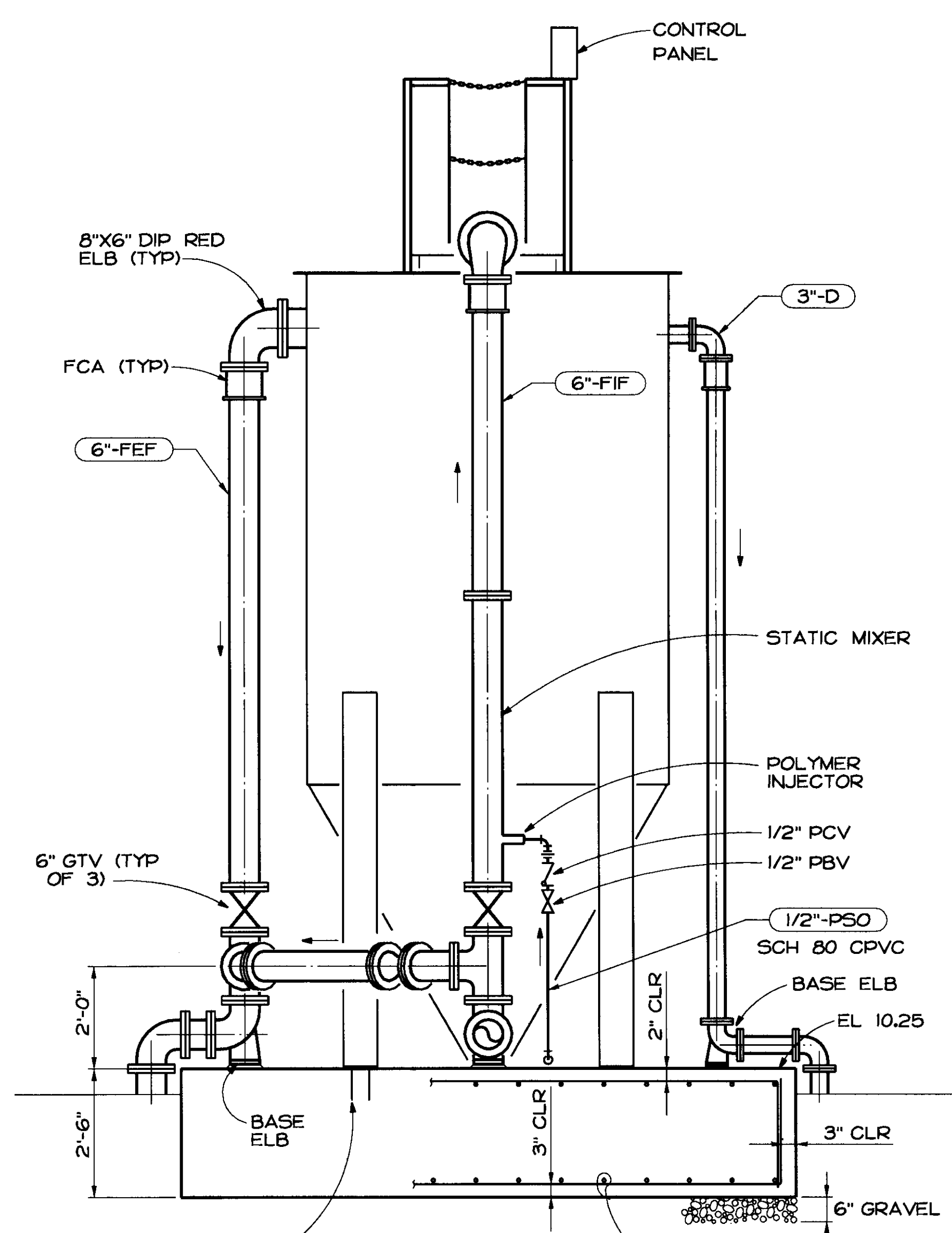
REVISION	DESCRIPTION	BY	APP	DATE



PLAN

NOTE:
THE DYNASAND SHOP DRAWINGS AND SUBMITTALS FOR THIS PROJECT ARE HEREBY MADE PART OF THIS CONTRACT.

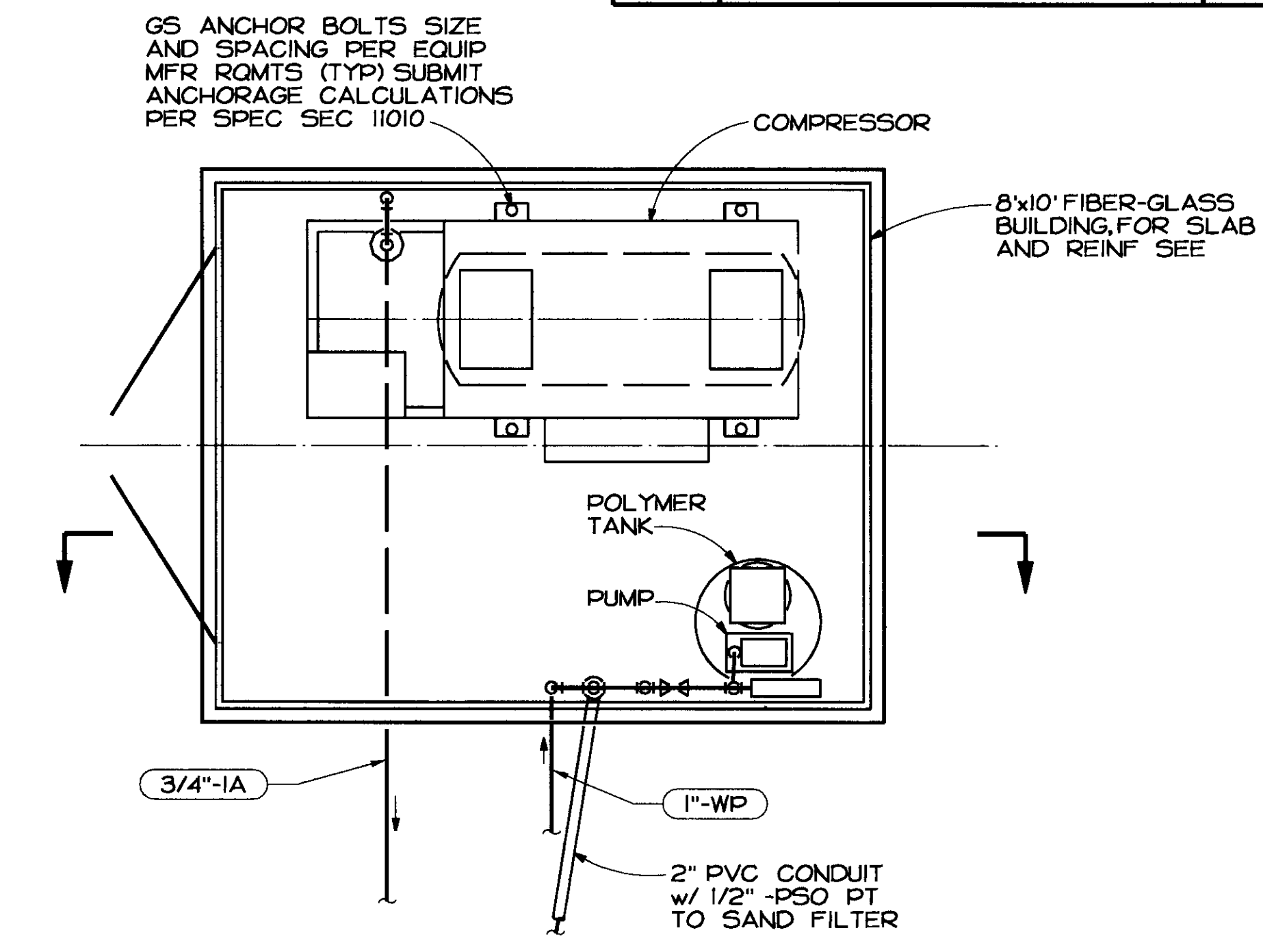
SAND FILTER



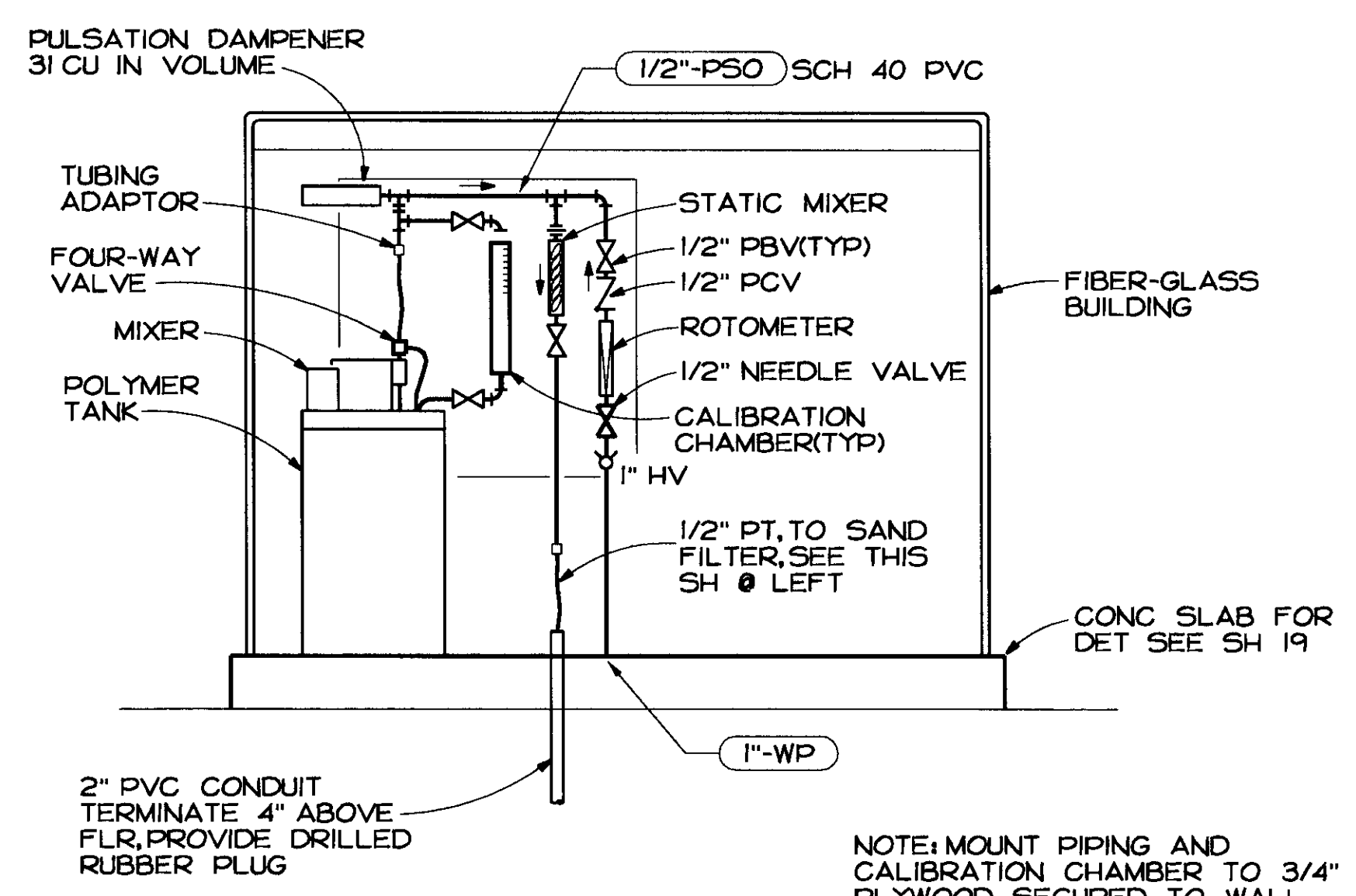
SECTION

SECURE TO CONCRETE BASE W/ 5/8" GS ANCH. TWO @ EACH LEG. SUBMIT ANCHORAGE CALCULATIONS PER SPEC SEC 11010

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



PLAN



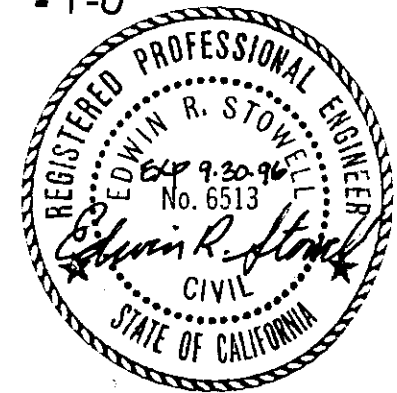
SECTION

NOTE: MOUNT PIPING AND CALIBRATION CHAMBER TO 3/4" PLYWOOD SECURED TO WALL W/ 1/2" SST BOLTS AS REQD

FE POLYMER FEED/COMPRESSOR BLDG

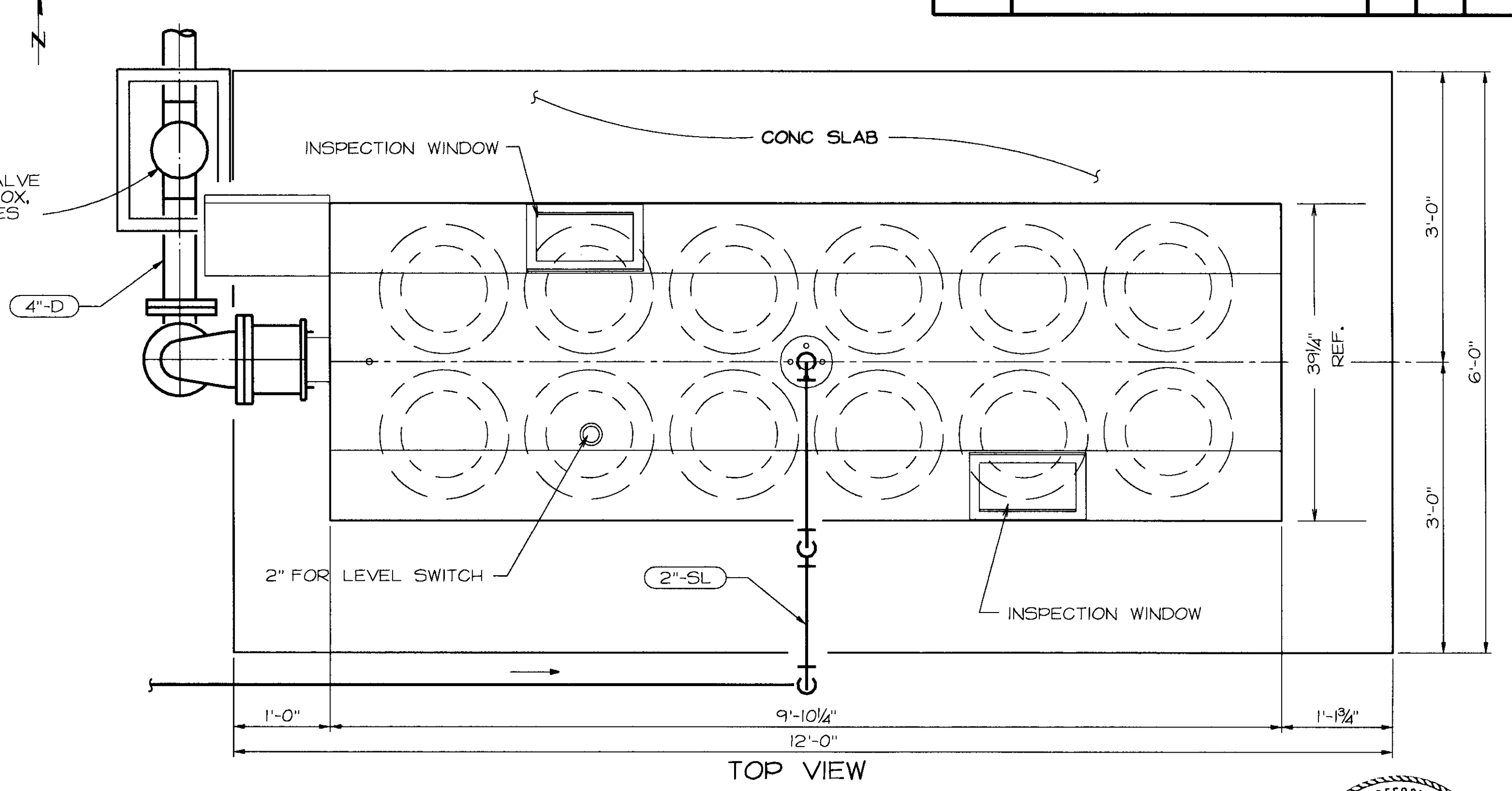
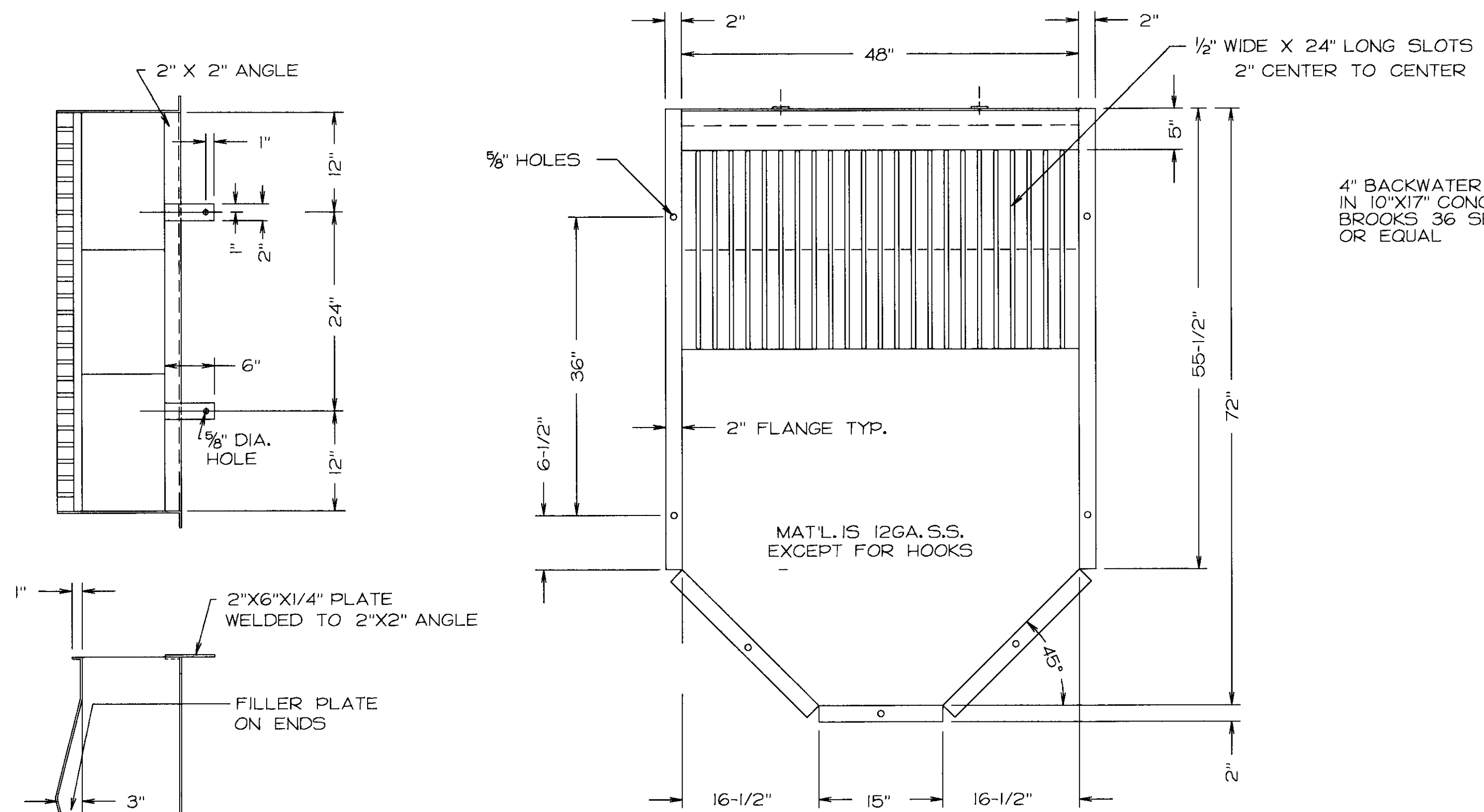
SCALE: 1/2" = 1'-0"

SU-2886



SCALE 1/2" = 1'-0"	DATE AUGUST 1994	DESIGNED ERS	SUBMITTED	DEWANTE AND STOWELL CONSULTING ENGINEERS SACRAMENTO, CALIFORNIA	FLAG CITY SAN JOAQUIN CO., CALIFORNIA WASTEWATER TREATMENT FACILITIES	SAND FILTER & POLYMER/COMPRESSOR BUILDING PLANS & SECTIONS	DRAWING NUMBER	SHEET NUMBER 17 of 44
	FILE 93423	DRAWN RRR	RECOMMENDED					
		CHECKED ERS	APPROVED					

REVISION	DESCRIPTION	BY	APP	DATE



SCREENING & FLOCCULATION
SCALE: 1" = 1'-0"

DRAIMAD UNIT - MODEL 12 BCA
SCALE: 1" = 1'-0"

NOTE:
DRAIMAD UNIT FURNISHED AS A PART OF
AERO-MOD PREPURCHASED PACKAGE.

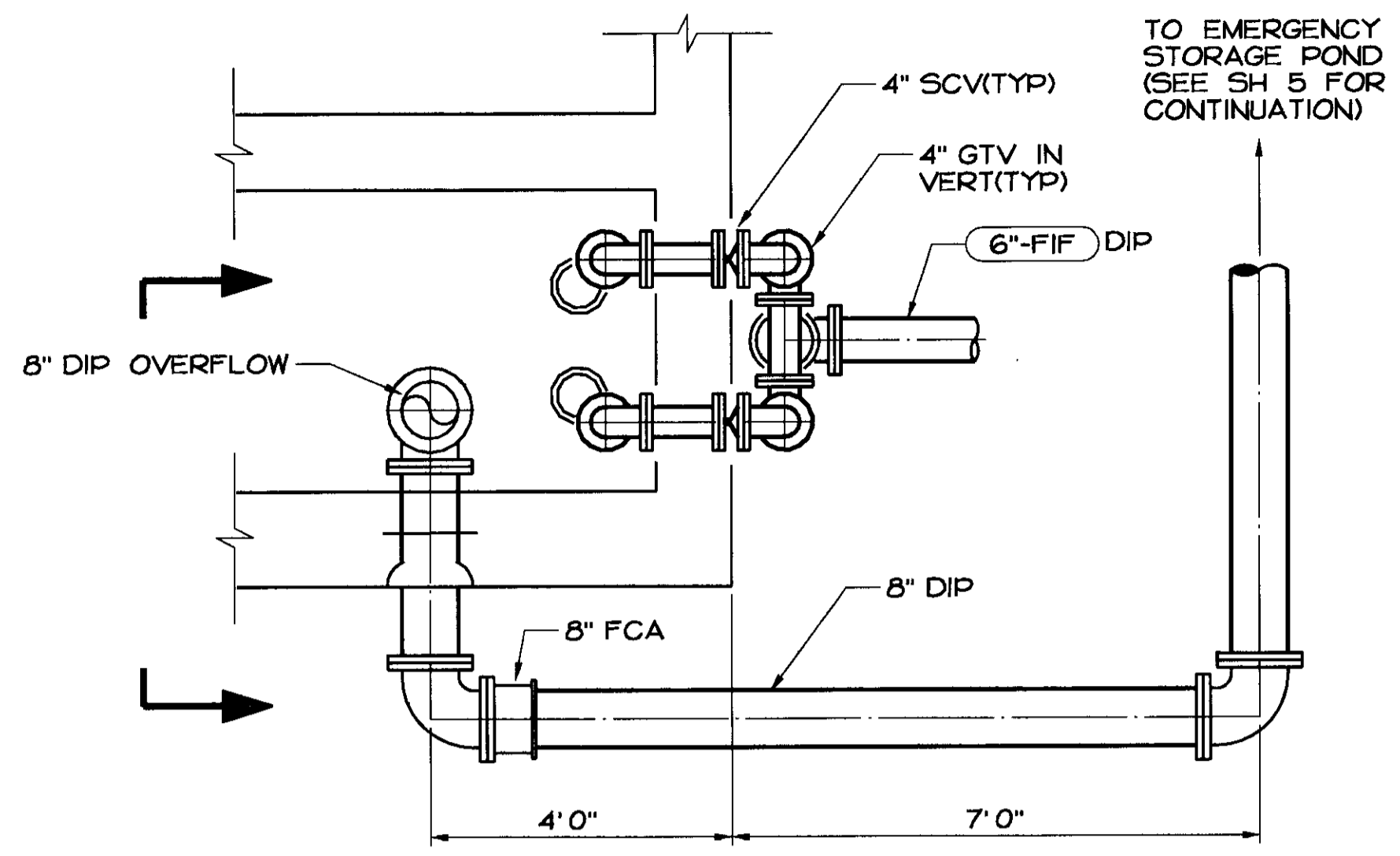
GS ANCHOR BOLTS SIZE
AND SPACING PER EQUIP
MFR RQMTS (TYP), SUBMIT
ANCHORAGE CALCULATIONS
PER SPEC SEC 11010



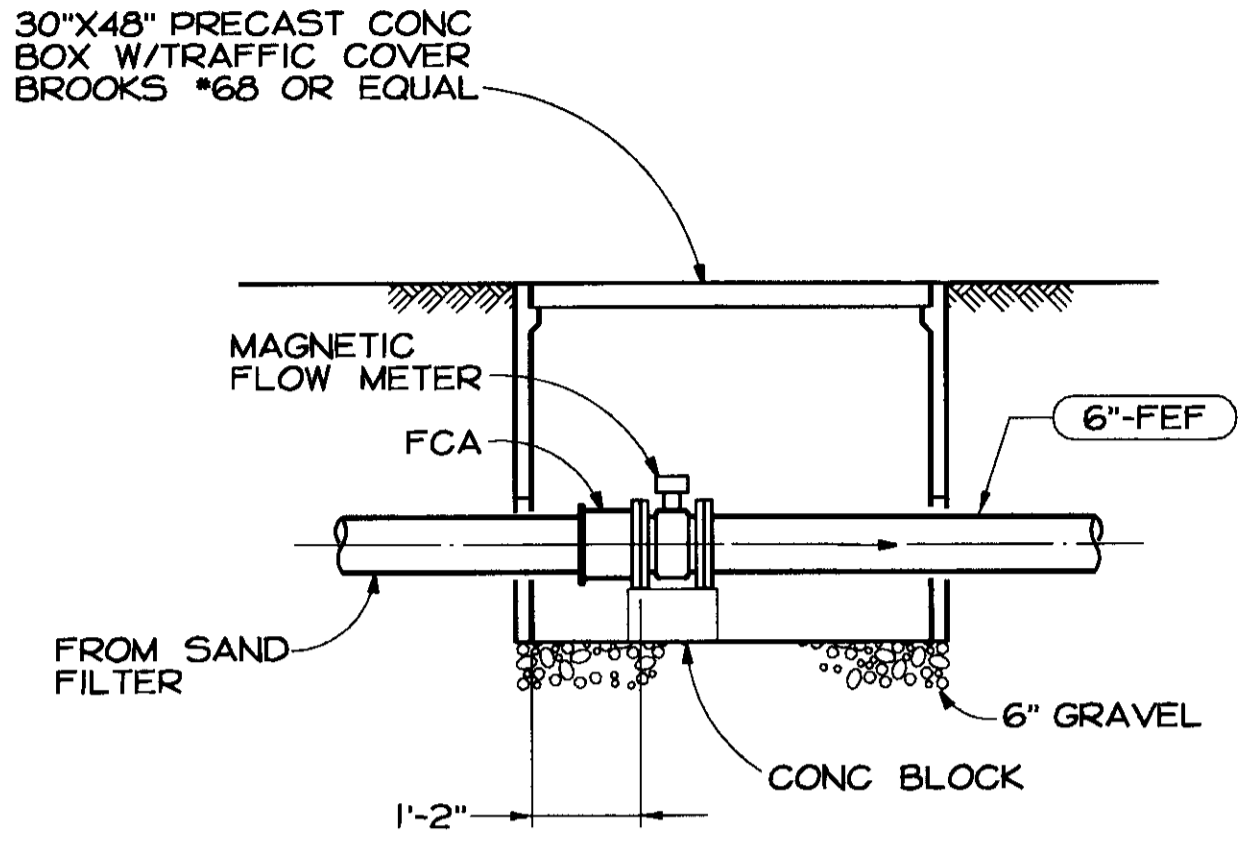
SU-2887

SCALE AS SHOWN	DATE AUGUST 1994	DESIGNED <u>ERS</u>	SUBMITTED _____	DEWANTE AND STOWELL CONSULTING ENGINEERS SACRAMENTO, CALIFORNIA	FLAG CITY SAN JOAQUIN CO., CALIFORNIA WASTEWATER TREATMENT FACILITIES	SLUDGE DEWATERING AND SCREENING PLANS & SECTIONS	DRAWING NUMBER	SHEET NUMBER 16 of 44
	FILE 93423	DRAWN <u>MVW</u>	RECOMMENDED _____					

REVISION	DESCRIPTION	BY	APP	DATE

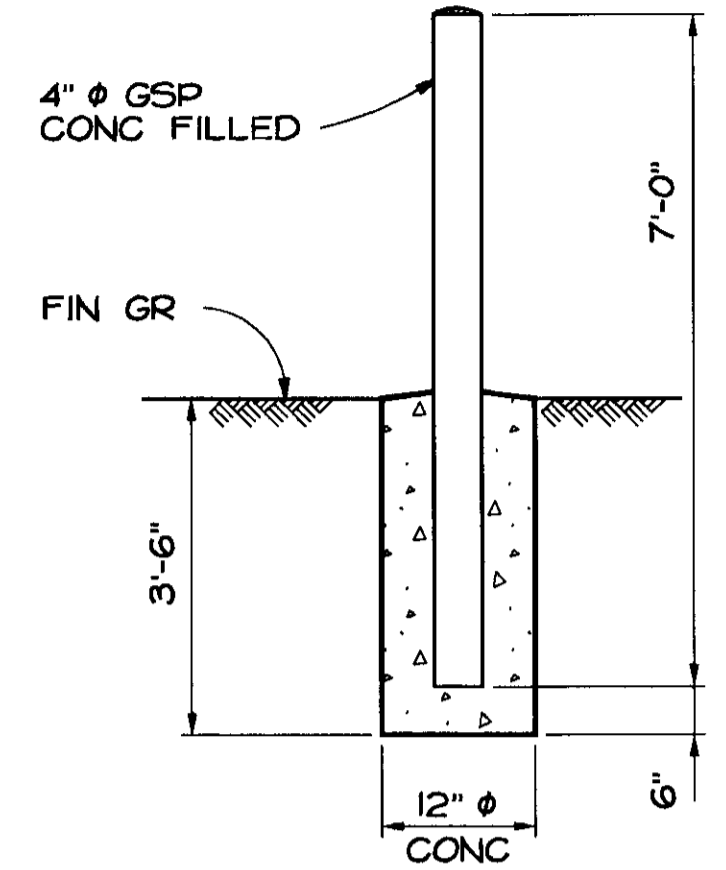


PARTIAL PLAN



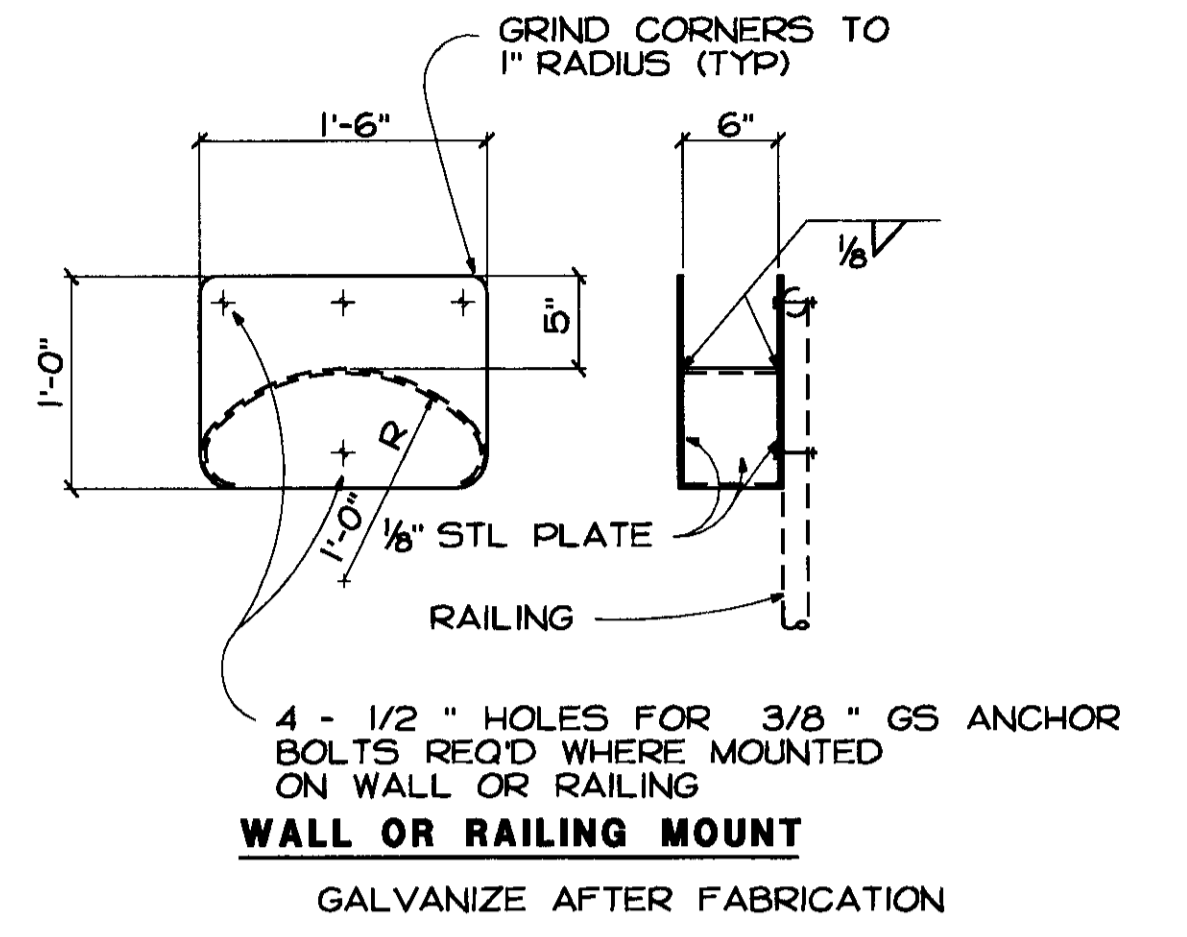
EFFLUENT FLOW METER

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



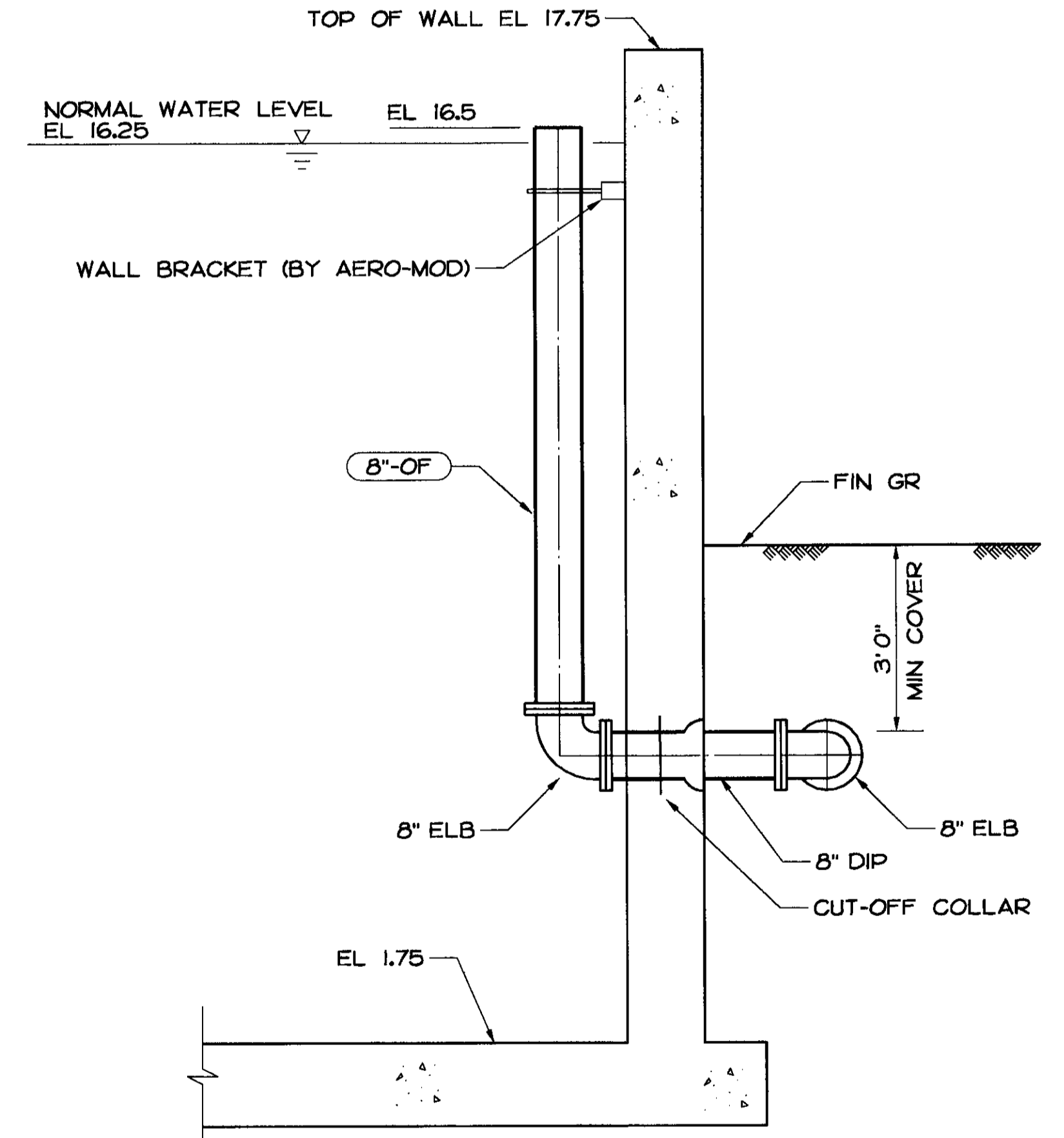
BARRIER POST

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



HOSE RACK

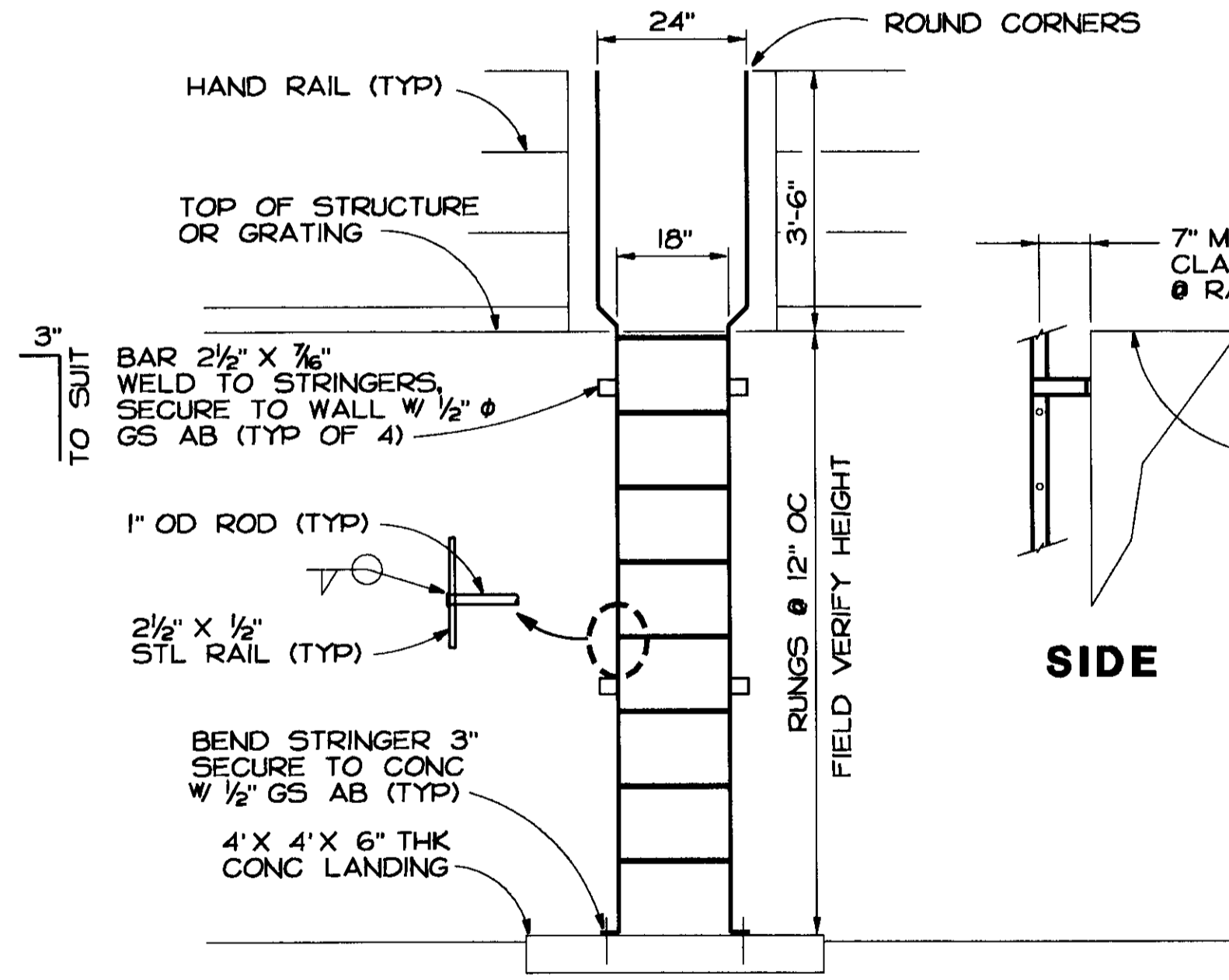
SCALE : 1" = 1'-0"



SECTION

SECONDARY EFFLUENT OVERFLOW

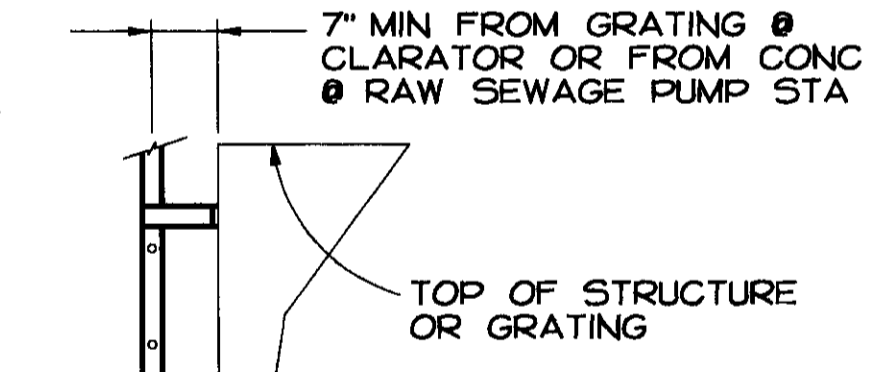
SCALE : 1/2" = 1'-0"



FRONT

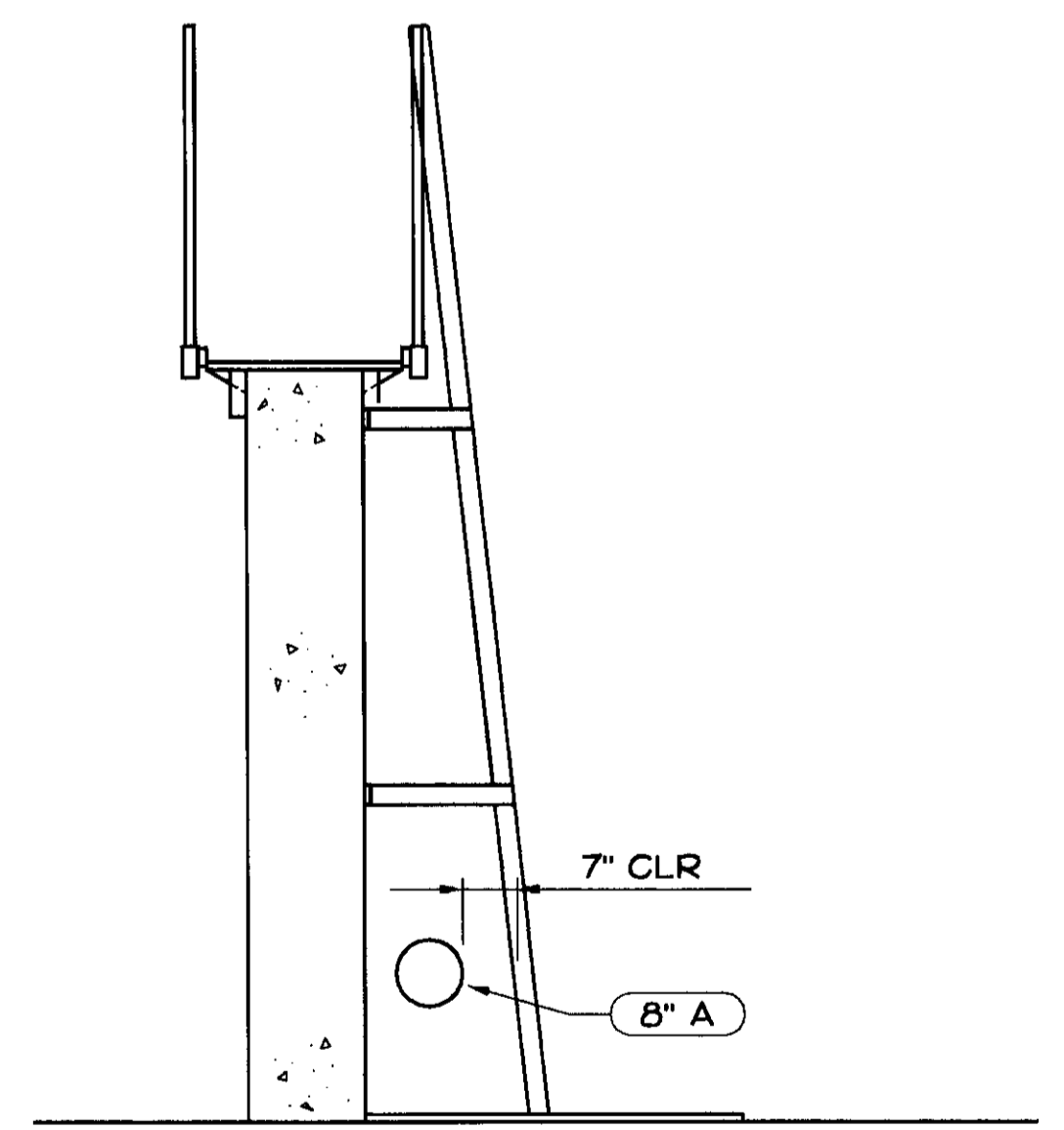
NOTE: ALL STEEL CONSTRUCTION (GAF)

SIDE



METAL LADDER

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



THIS LADDER ONLY TO BE MOUNTED @ ANGLE TO CLEAR PIPE 7" MIN



su-2888

SCALE 1/2" = 1'-0"	DATE AUGUST 1994	DESIGNED ERS	SUBMITTED
	FILE 93423	DRAWN RRR	RECOMMENDED
		CHECKED ERS	APPROVED

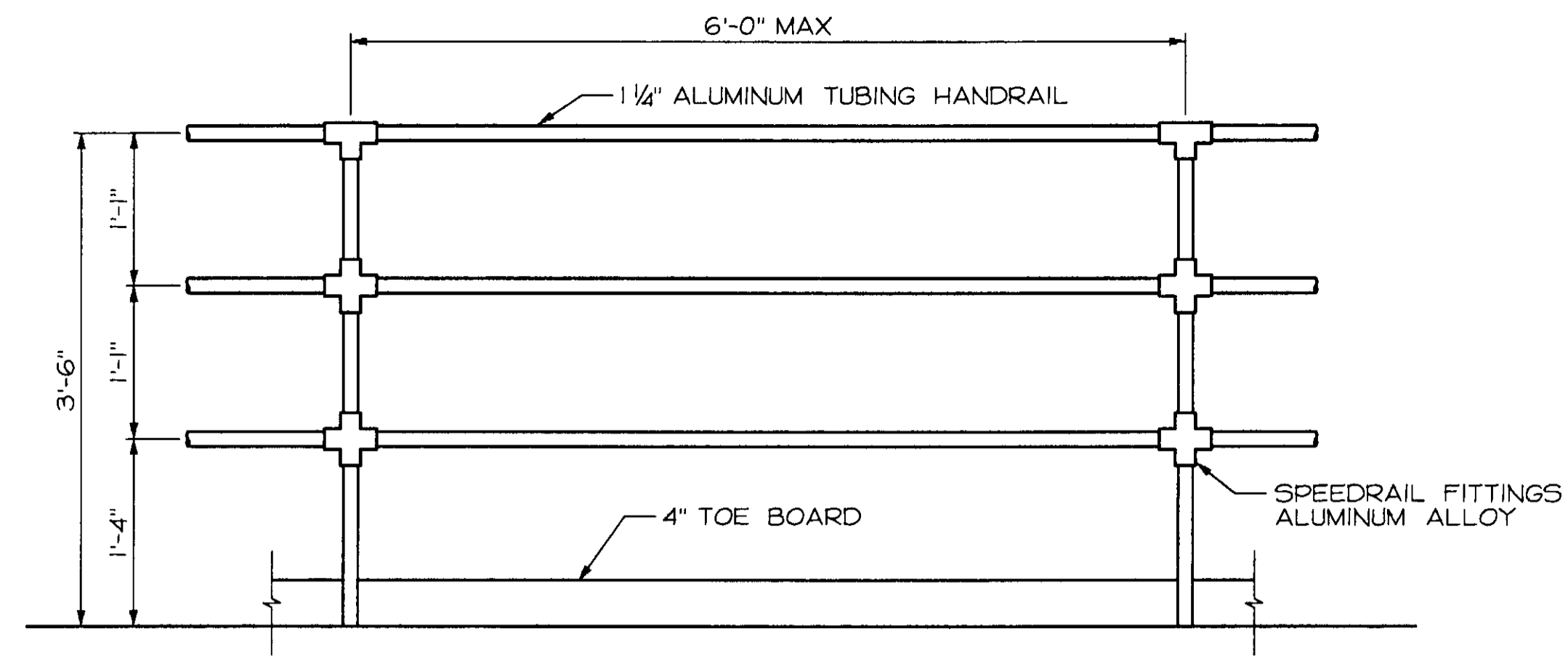
DEWANTE AND STOWELL
CONSULTING ENGINEERS
SACRAMENTO, CALIFORNIA

FLAG CITY
SAN JOAQUIN CO., CALIFORNIA
WASTEWATER TREATMENT FACILITIES

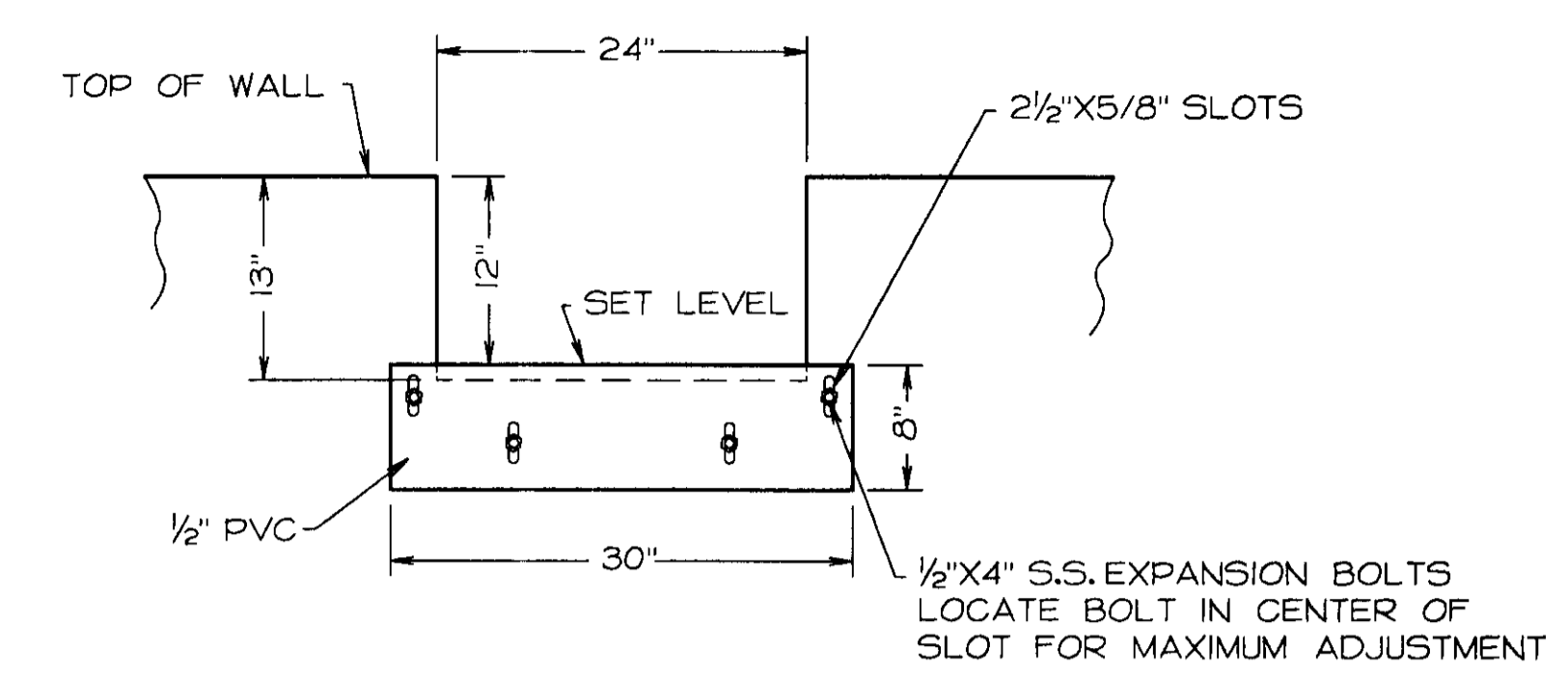
MISCELLANEOUS DETAILS III

DRAWING NUMBER	SHEET NUMBER
	15 OF 44

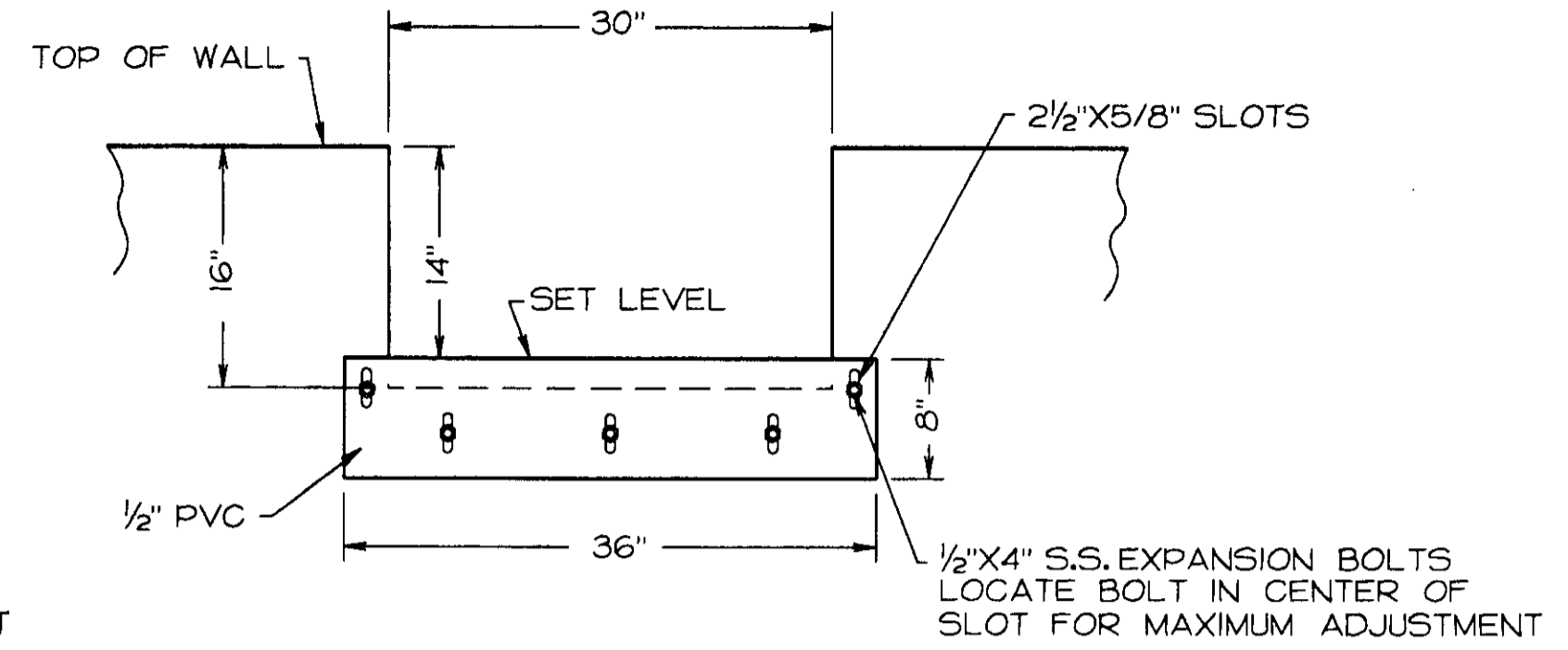
REVISION	DESCRIPTION	BY	APP	DATE



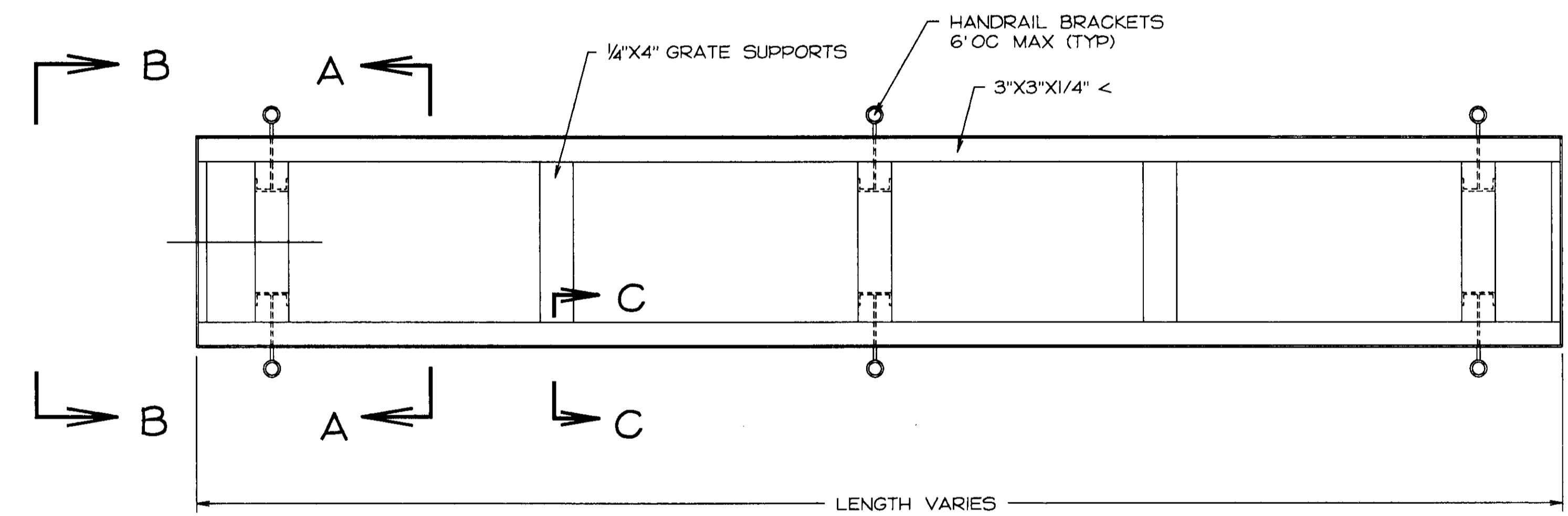
HANDRAIL
1" = 1'-0"



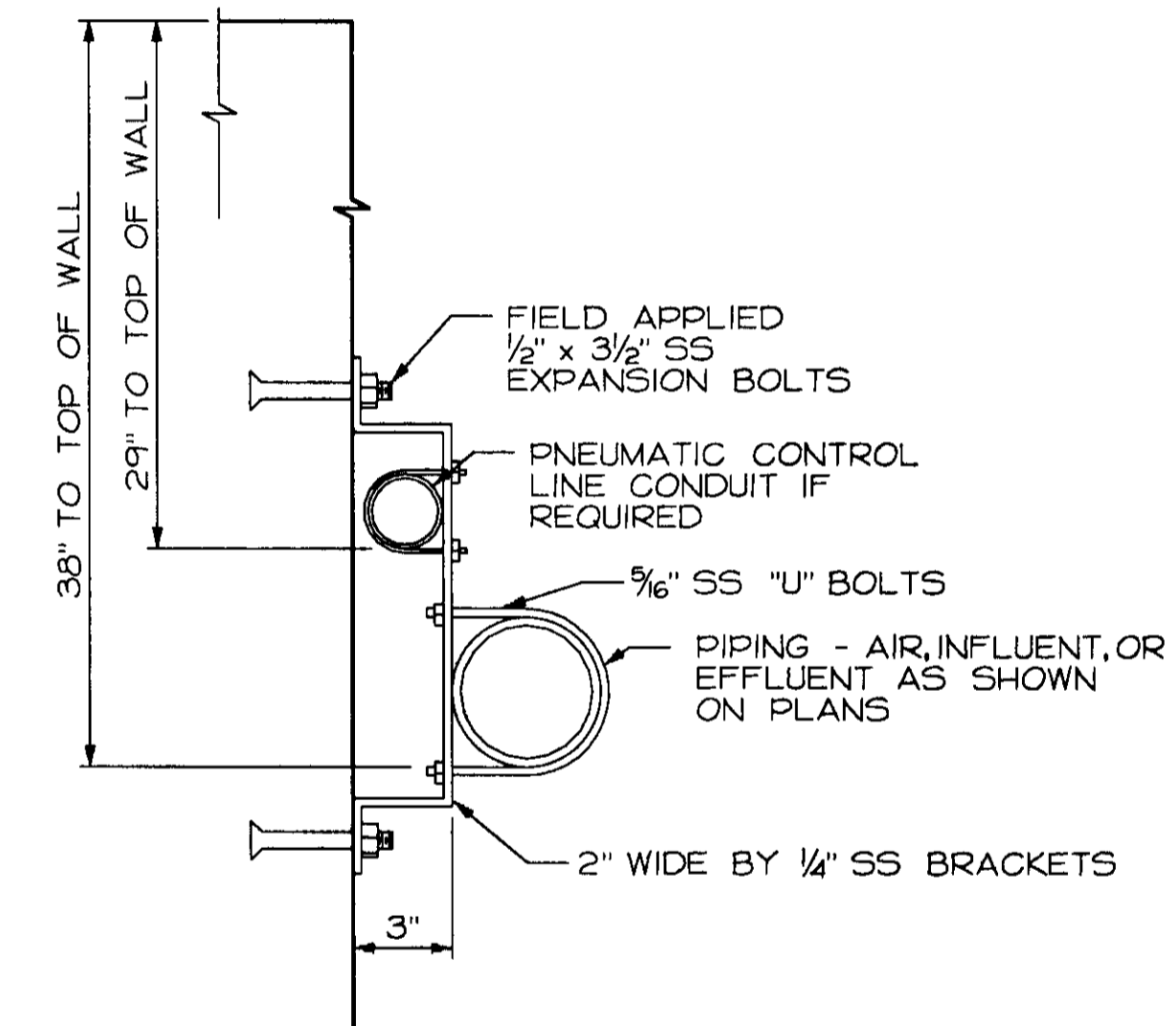
DIGESTER SUPERNATANT RETURN WEIR
(INSTALL ON DIGESTER SIDE OF WALL)
1" = 1'-0"



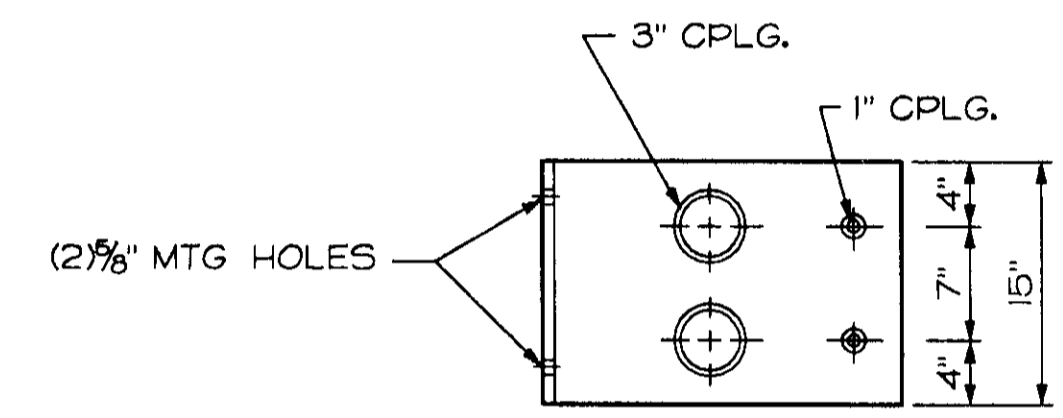
FLOW EQUALIZATION WEIR
(INSTALL ON AERATION SIDE OF WALL)
1" = 1'-0"



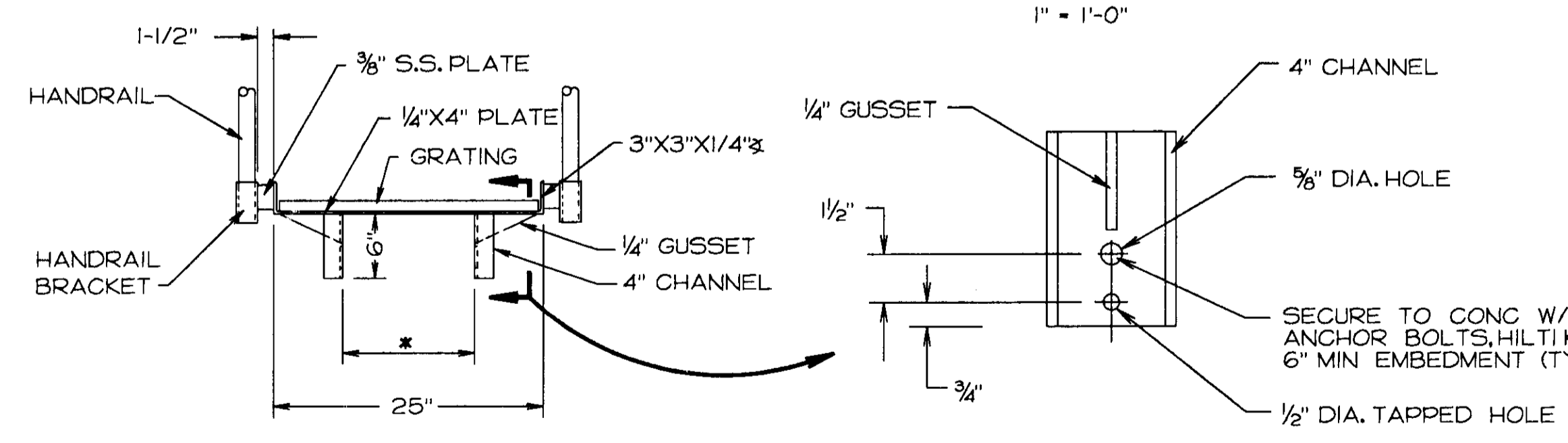
WALKWAY
1" = 1'-0"



WALL BRACKET
NTS

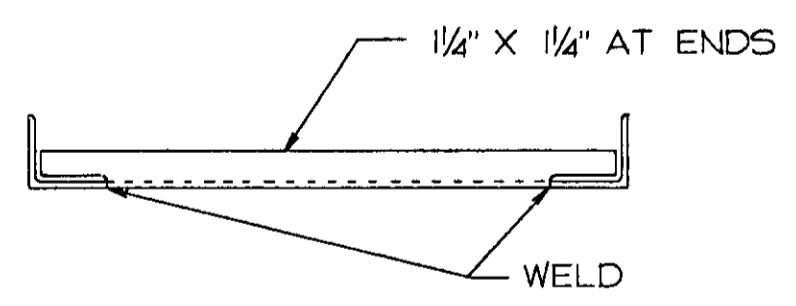


MODEL AL-200

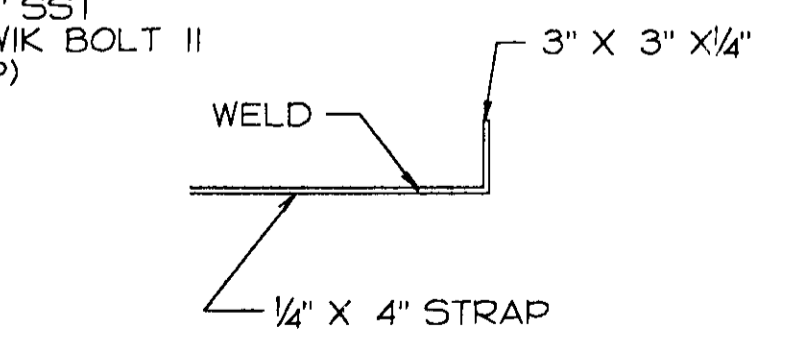


SEC. A-A

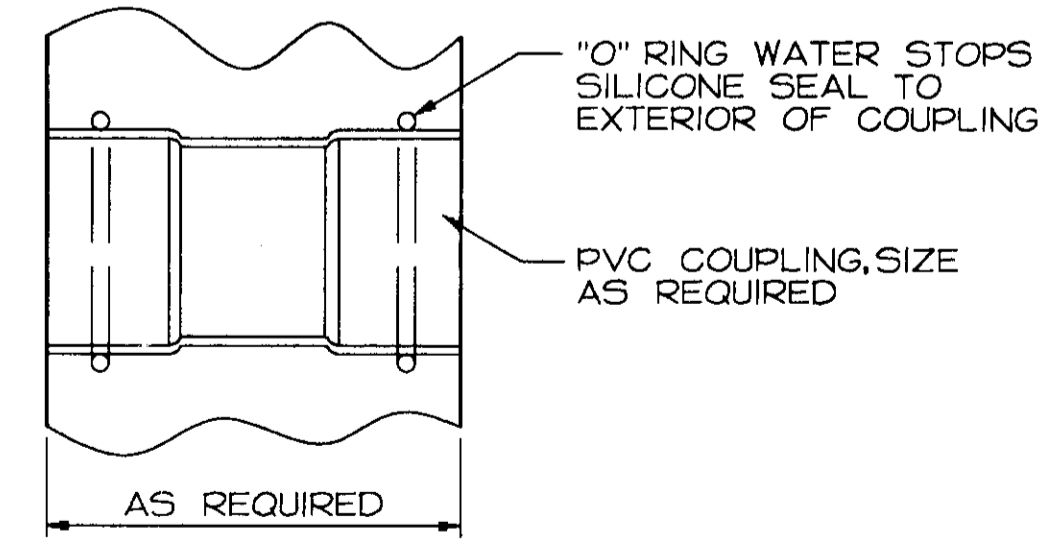
* 12 1/2" EAST & WEST WALLS
15 1/4" NORTH & SOUTH WALLS



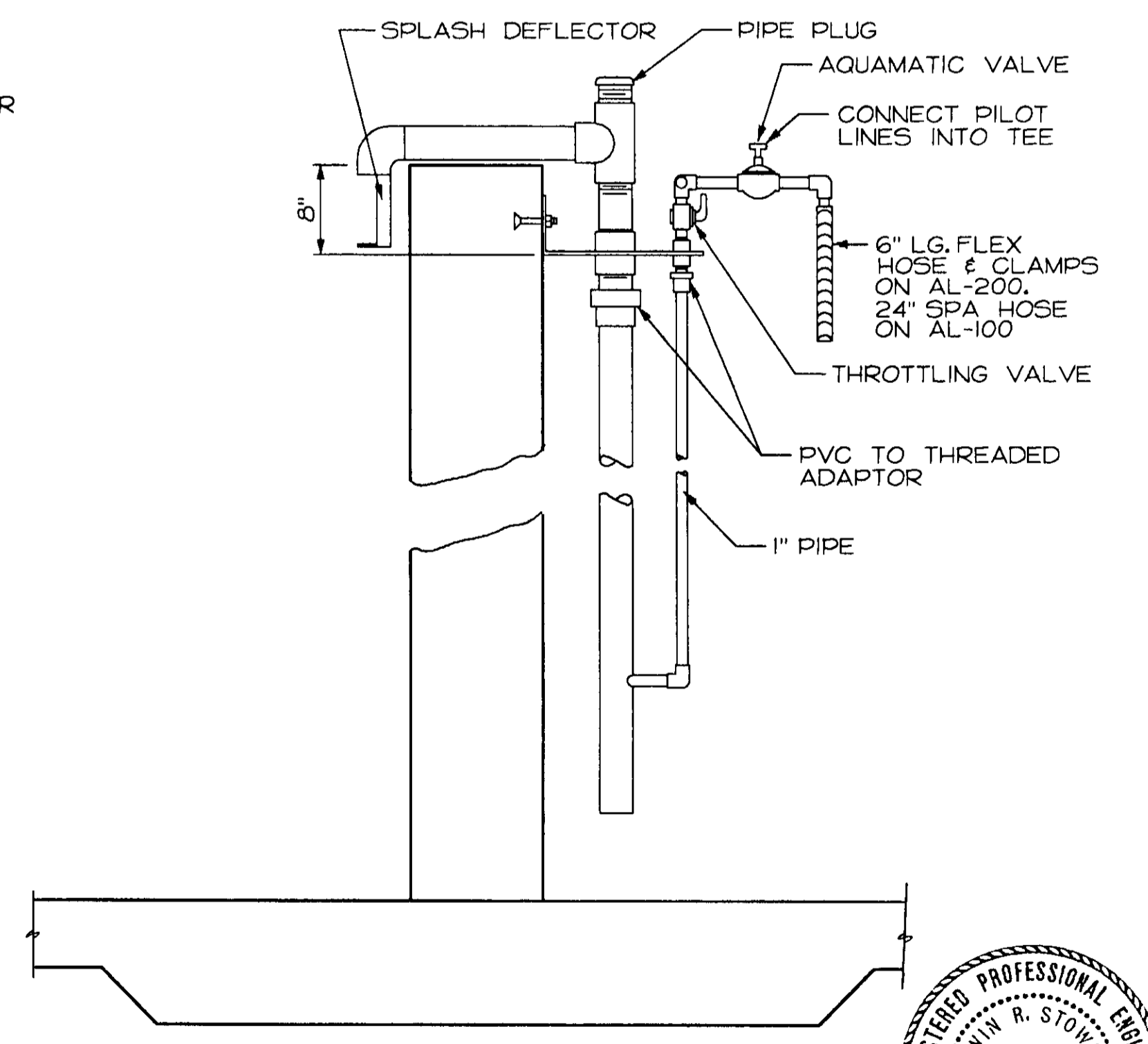
SEC. B-B



SEC. C-C

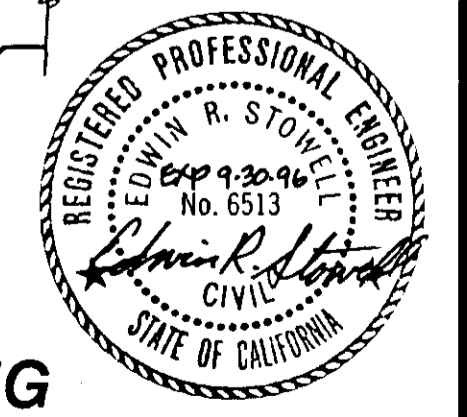


PIPE SLEEVE
NTS



AIR LIFT SECTION VIEW

1" = 1'-0"
RECORD DRAWING



Su. 2889

SCALE AS SHOWN	DATE AUGUST 1994	DESIGNED ERS	SUBMITTED
	FILE 93423	DRAWN MVW	RECOMMENDED
		CHECKED ERS	APPROVED

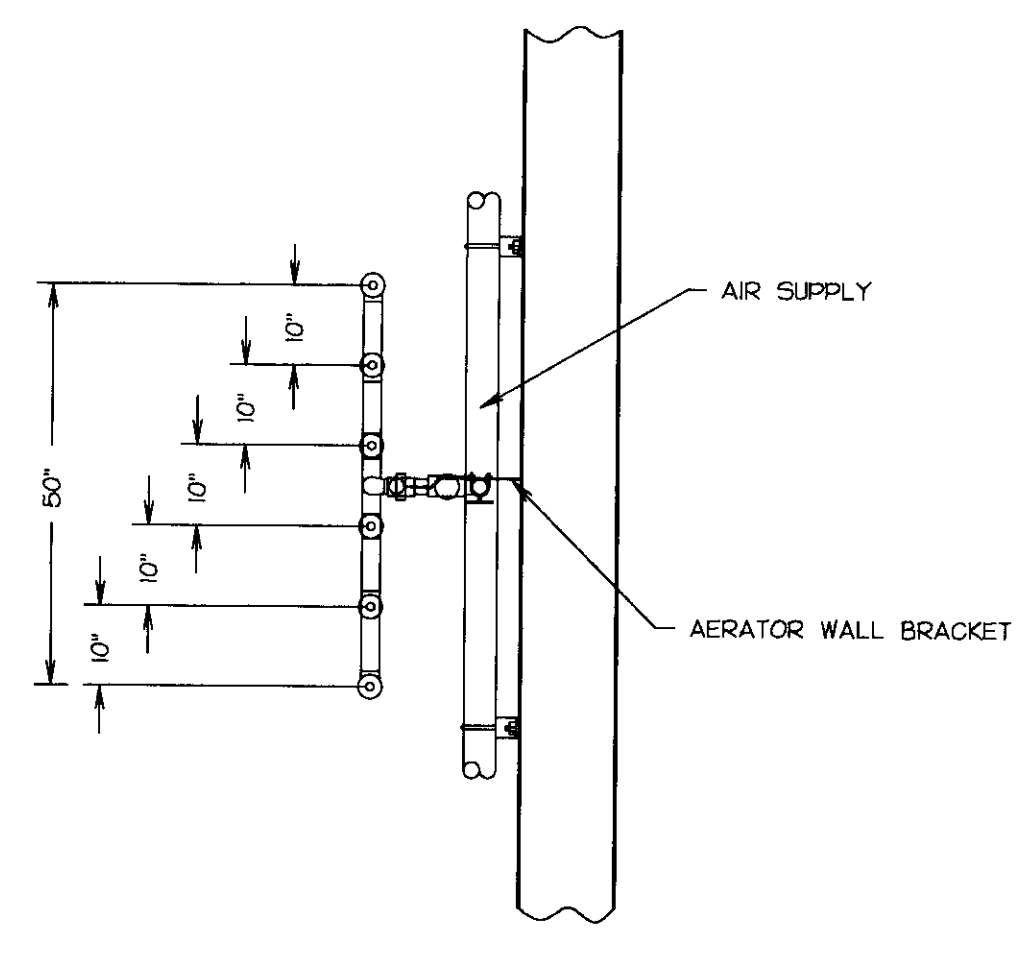
DEWANTE AND STOWELL
CONSULTING ENGINEERS
SACRAMENTO, CALIFORNIA

FLAG CITY
SAN JOAQUIN CO., CALIFORNIA
WASTEWATER TREATMENT FACILITIES

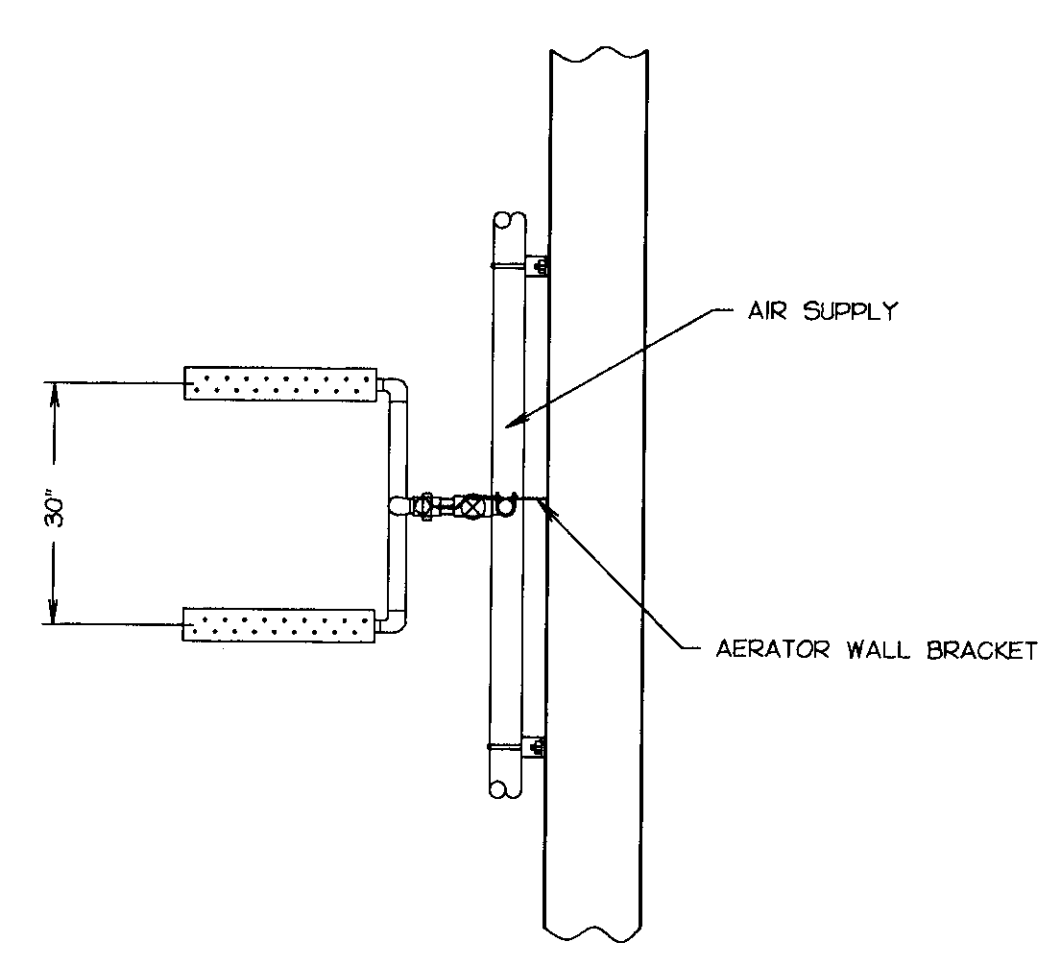
MISCELLANEOUS DETAILS II

DRAWING NUMBER	SHEET NUMBER
	14 OF 44

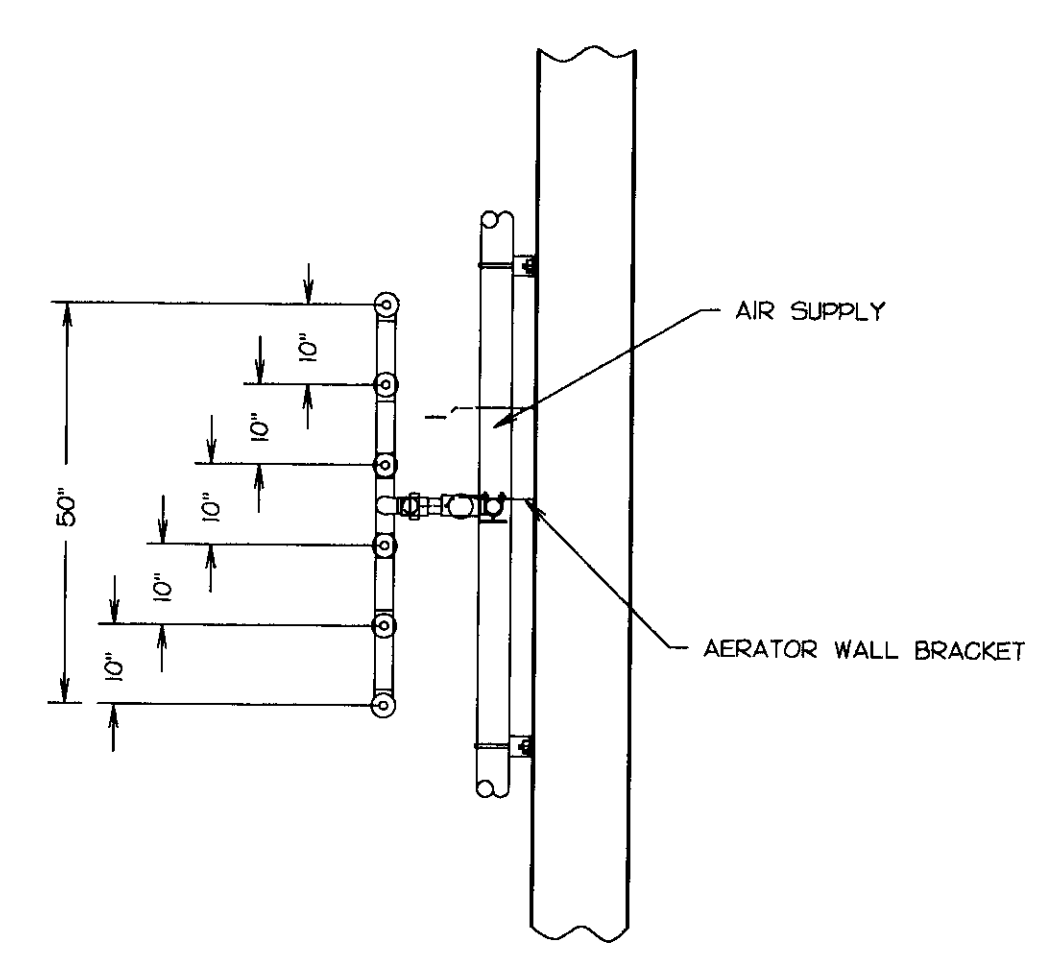
REVISION	DESCRIPTION	BY	APP	DATE



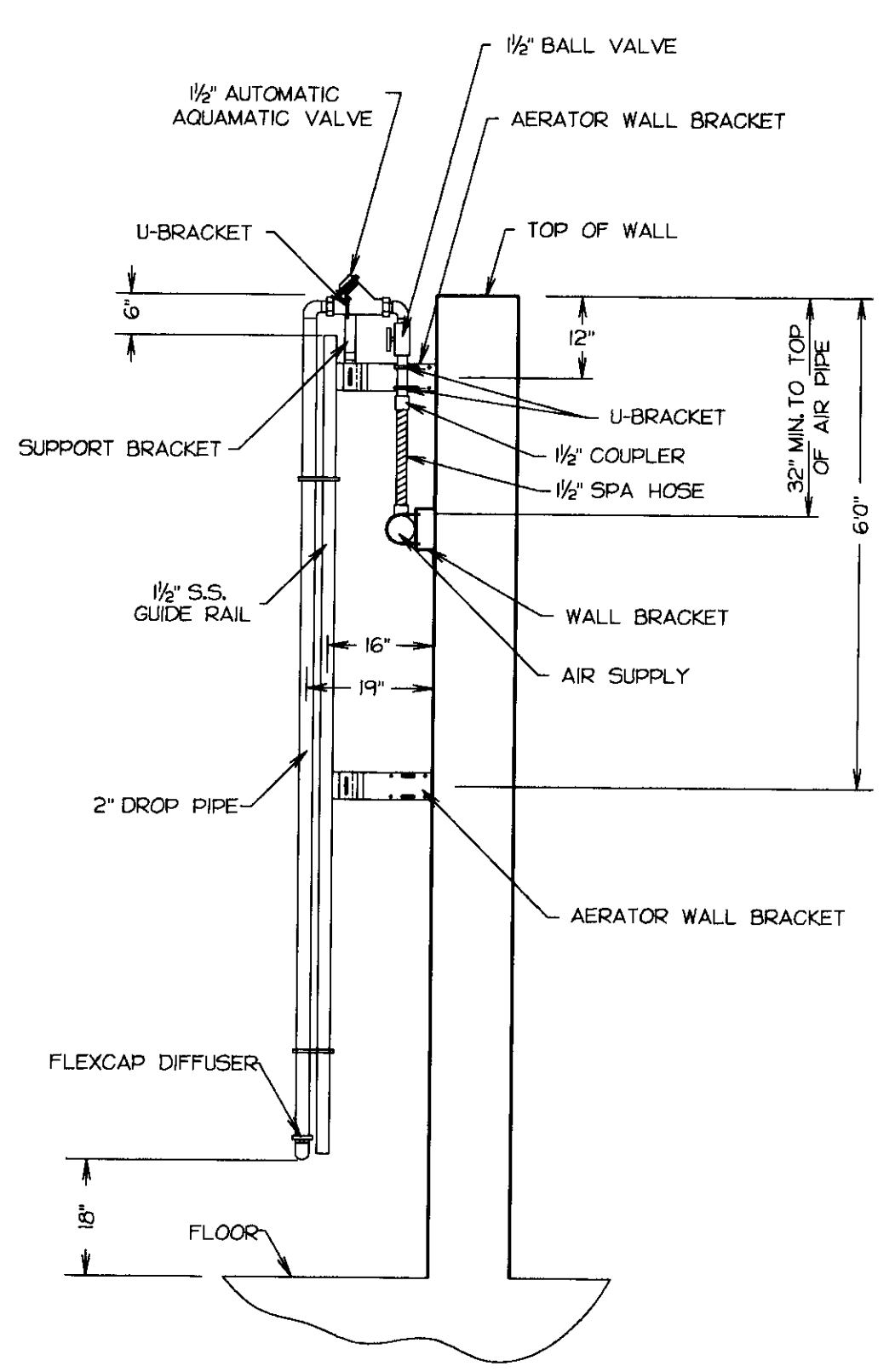
TOP VIEW



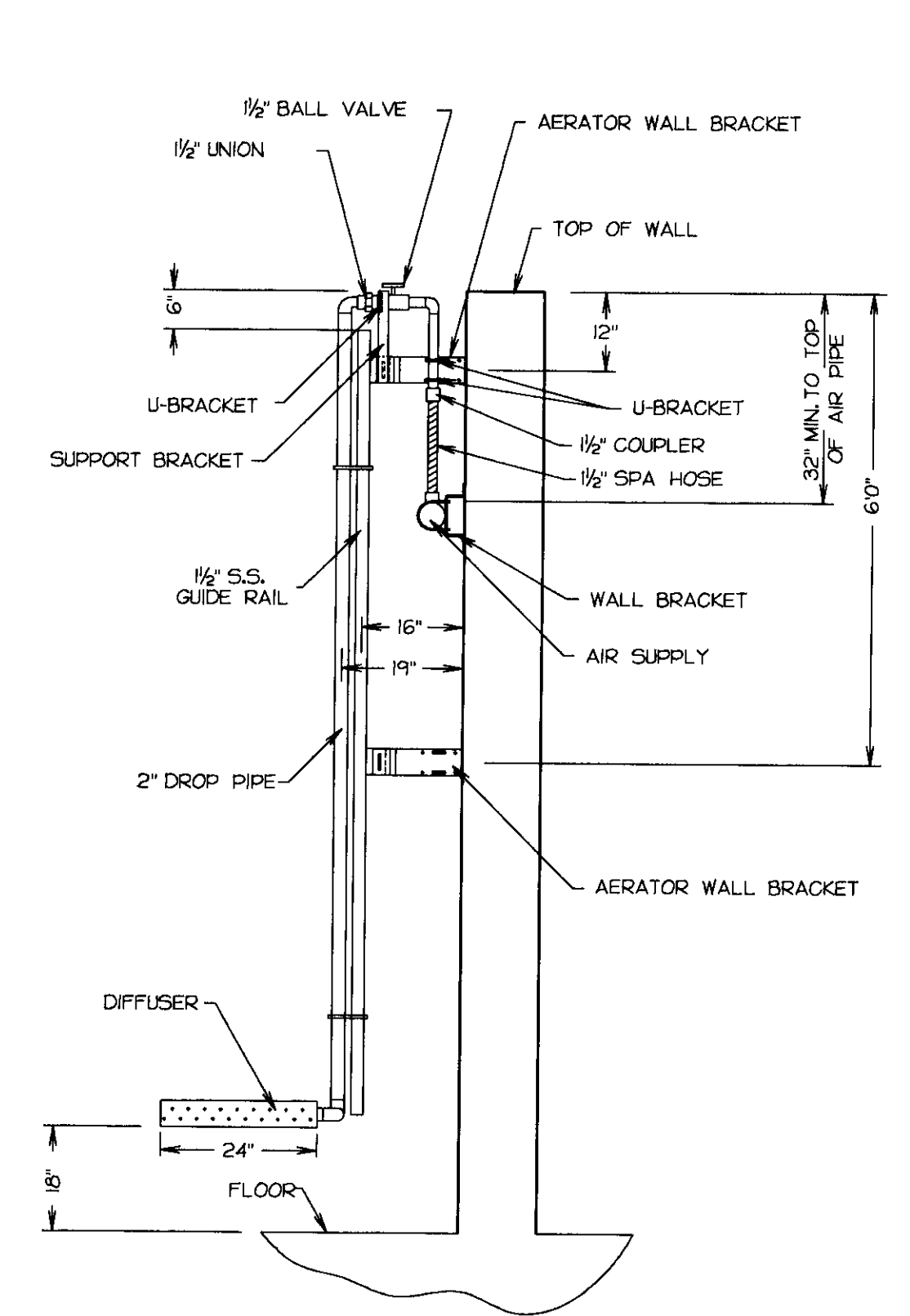
TOP VIEW



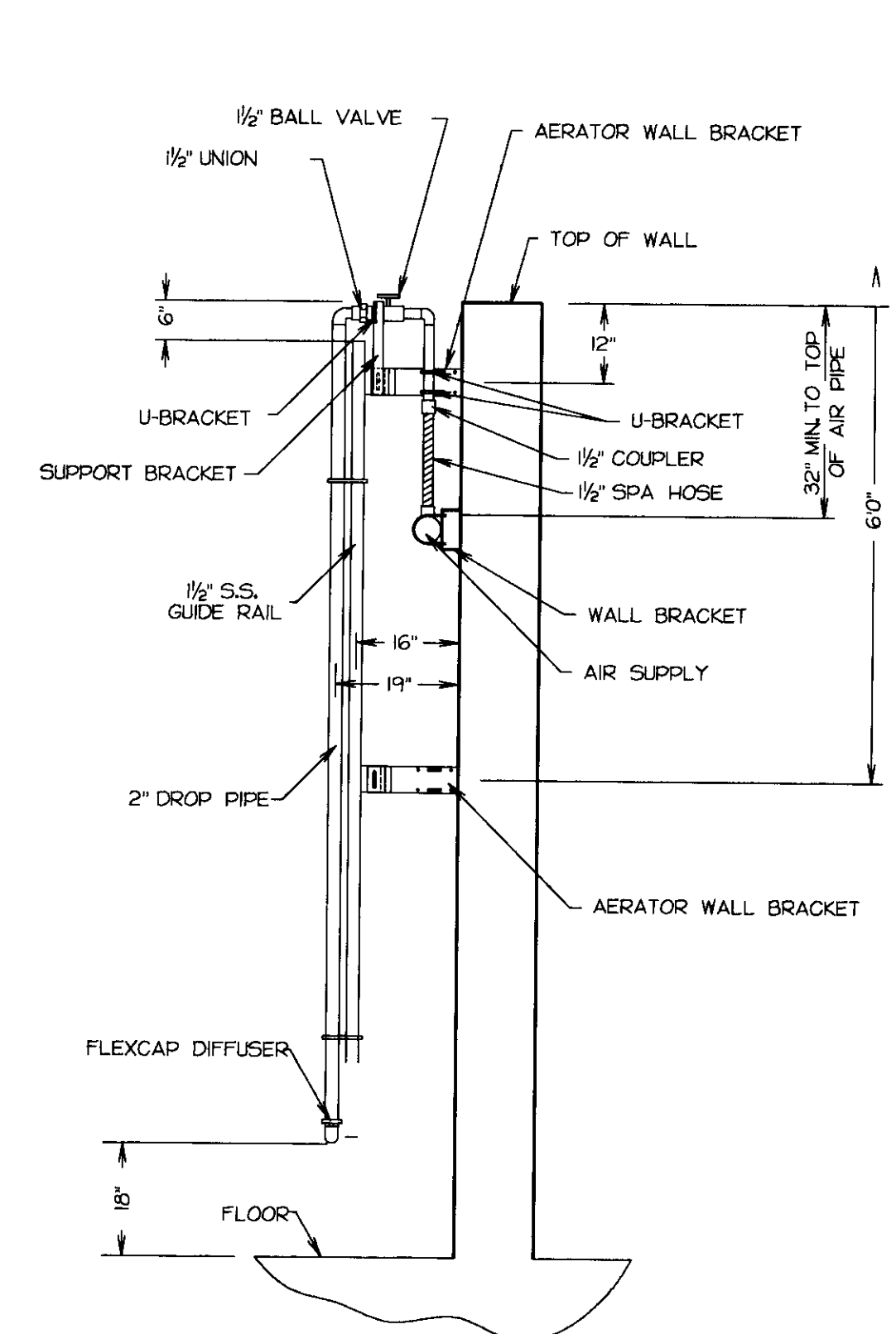
TOP VIEW



SIDE VIEW
WA-50-CA



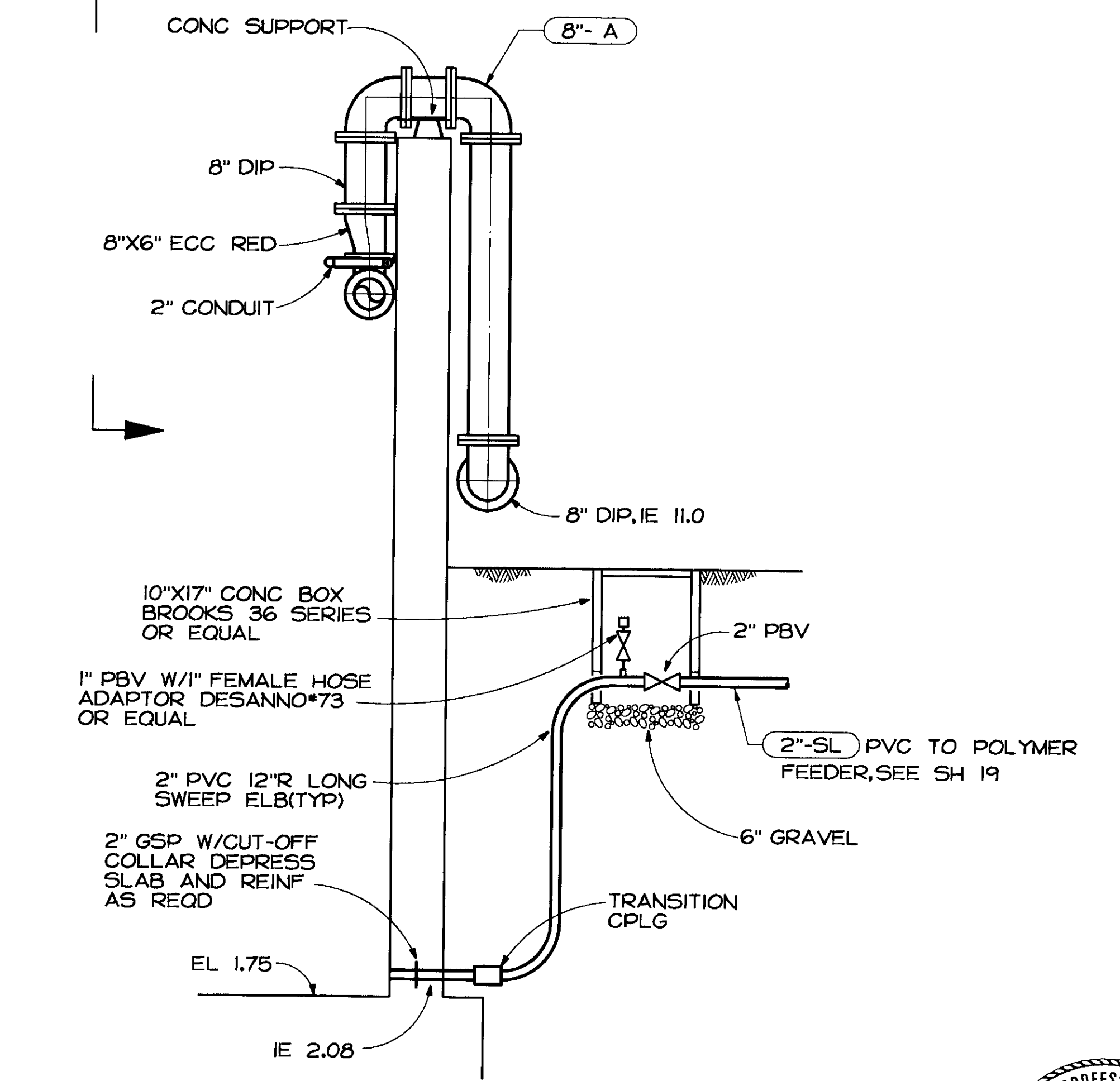
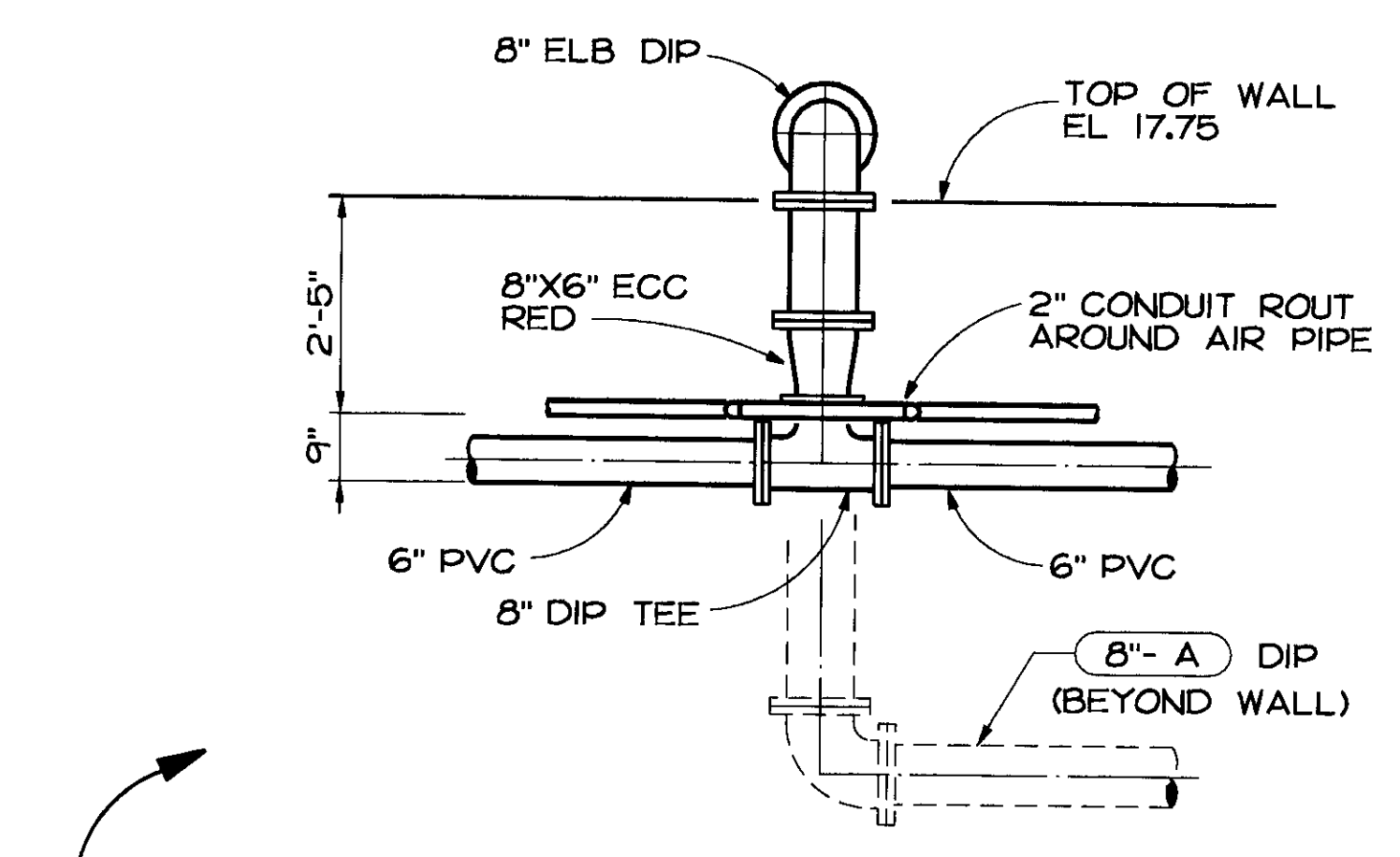
SIDE VIEW
WA-50-PC-SS



SIDE VIEW
WA-50-C

AERATOR DIFFUSERS

SCALE : " = 1'-0"



SECTION A-A

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



SCALE AS SHOWN	DATE AUGUST 1994	DESIGNED ERS	SUBMITTED
	FILE 93423	DRAWN MVW	RECOMMENDED
		CHECKED ERS	APPROVED

DEWANTE AND STOWELL
CONSULTING ENGINEERS
SACRAMENTO, CALIFORNIA

FLAG CITY
SAN JOAQUIN CO., CALIFORNIA
WASTEWATER TREATMENT FACILITIES

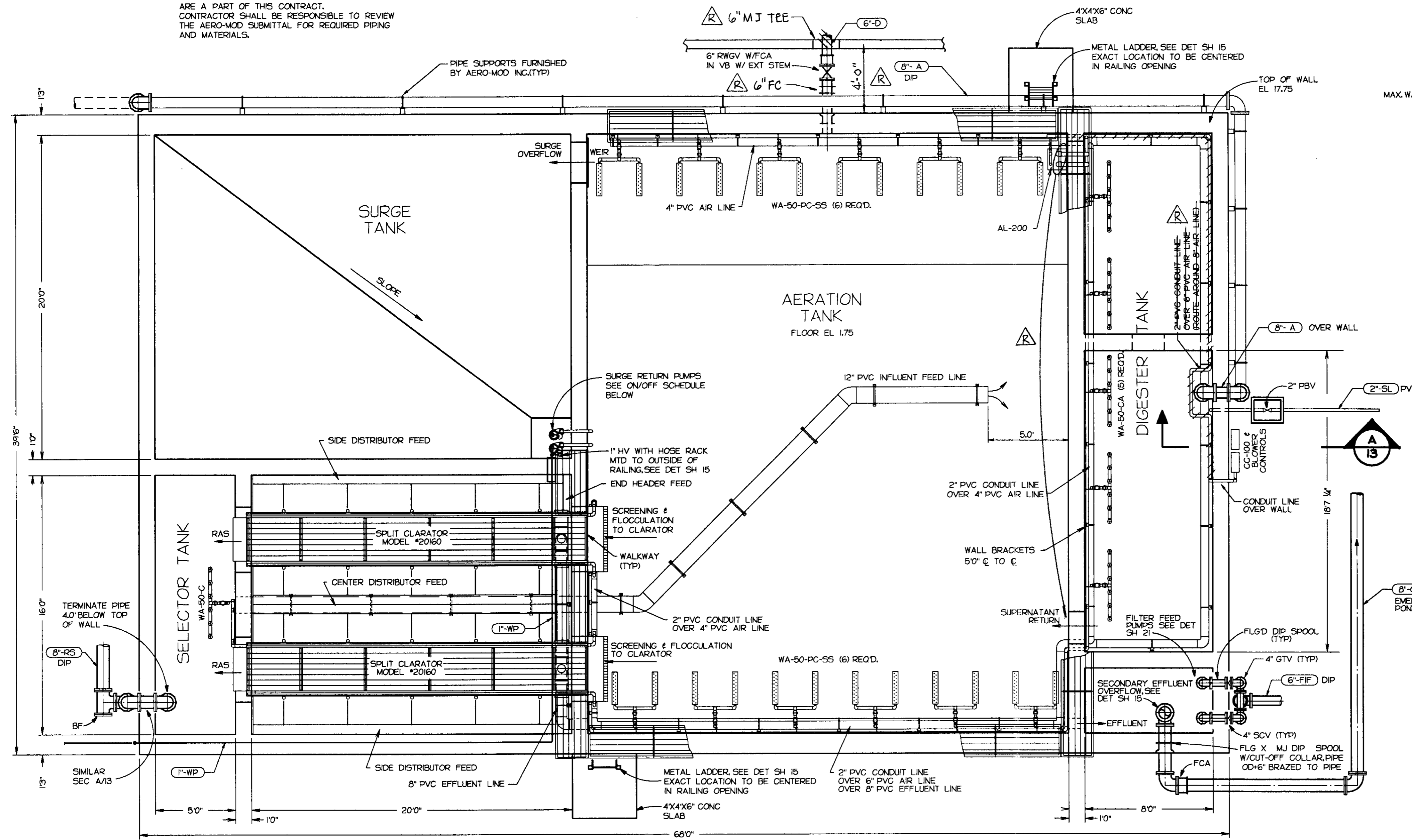
MISCELLANEOUS DETAILS I

DRAWING NUMBER	SHEET NUMBER
	13 OF 44

REVISION	DESCRIPTION	BY	APP	DATE
1	RECORD DWG. CHANGES INCORP.	DCL	RMD	6-95

NOTES:

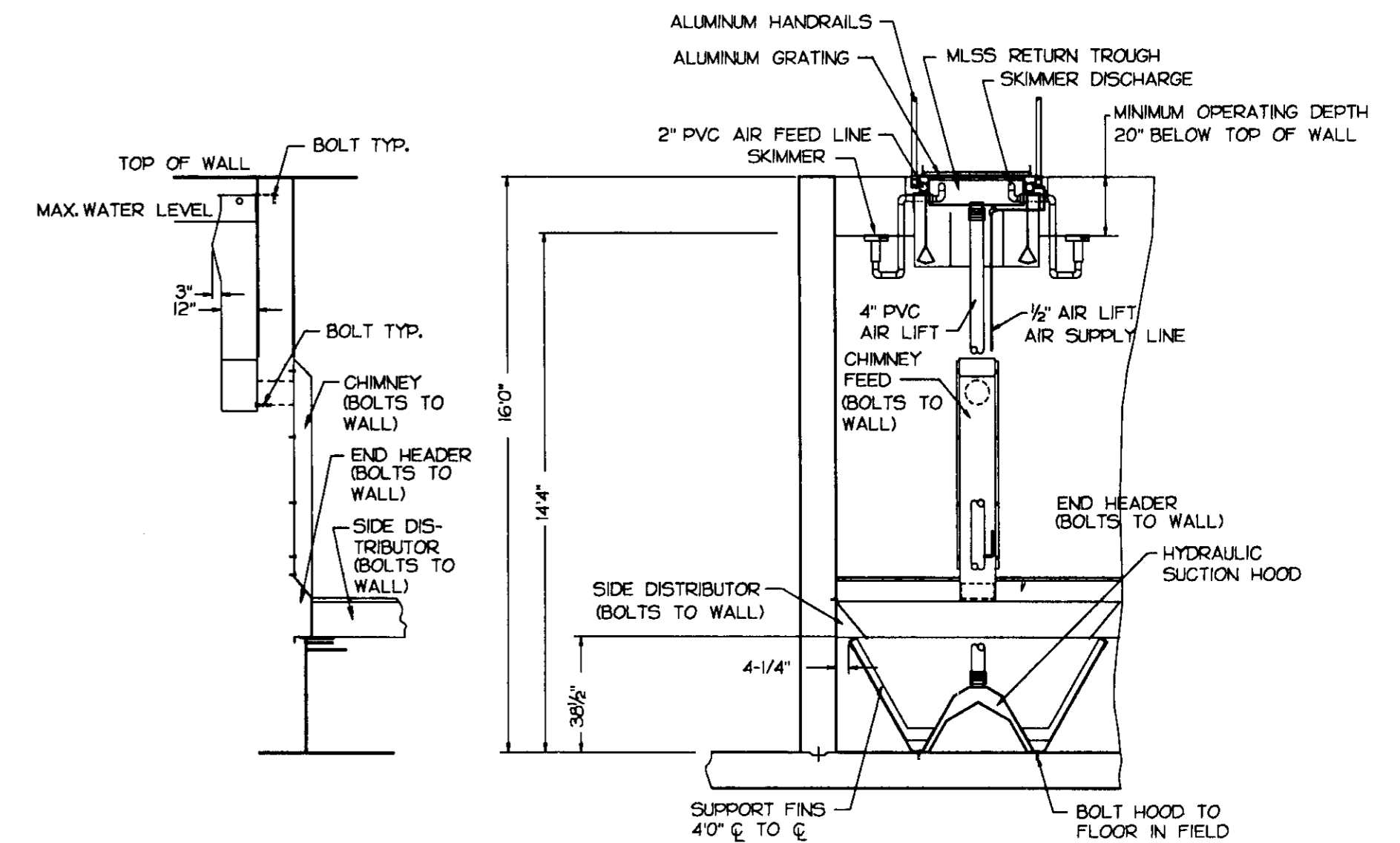
- SHOP DRAWINGS AND SUBMITTALS OF AERO-MOD FOR THIS PROJECT ARE HEREBY MADE A PART OF THIS PROJECT.
- INTERIOR TANK PIPING INCLUDING PVC INFLUENT FEED LINE, PVC AIR LINES, PVC CONDUIT LINES W/ CONTROL CONDUITS, PVC EFFLUENT LINE FROM CLARIFIER TO EFFLUENT PUMP SUMP AND ALL OTHER INTERIOR PIPING AND FITTINGS NOT FURNISHED AS PART OF THE AERO-MOD PREPURCHASED PACKAGE ARE A PART OF THIS CONTRACT. CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW THE AERO-MOD SUBMITTAL FOR REQUIRED PIPING AND MATERIALS.



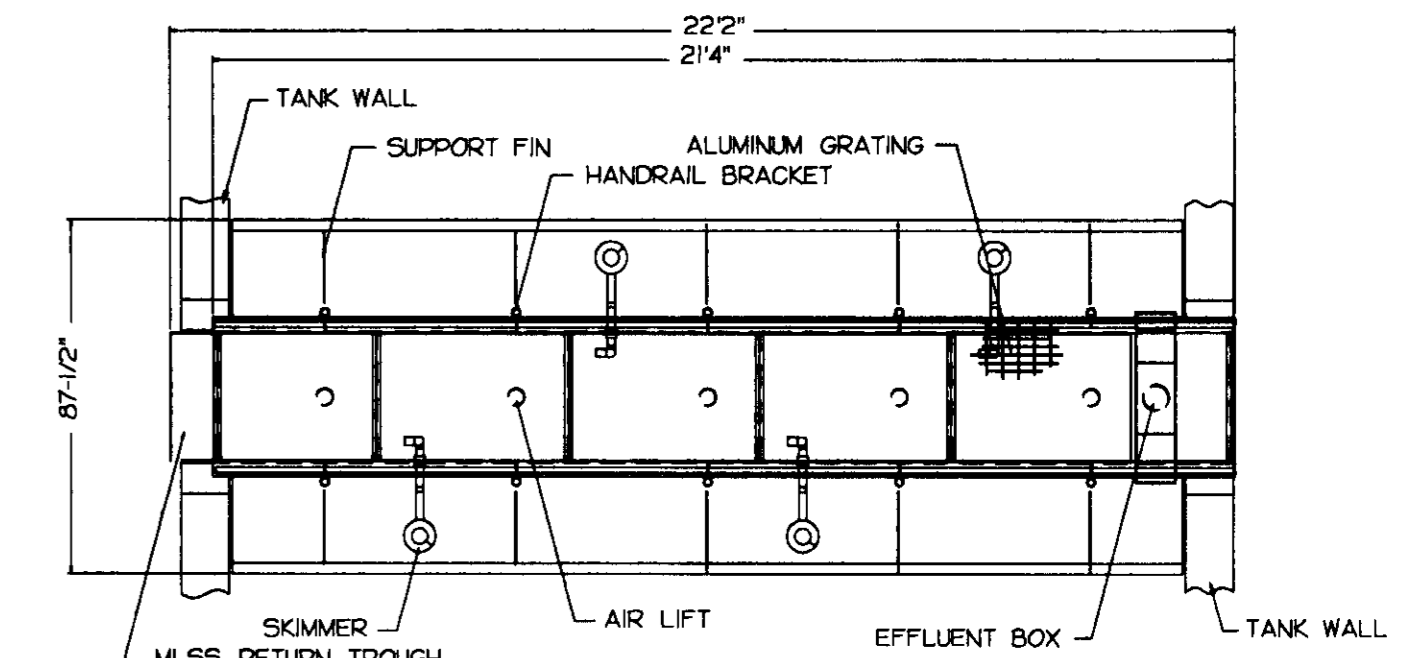
PLAN VIEW

SURGE RETURN PUMP ON/OFF SCHEDULE

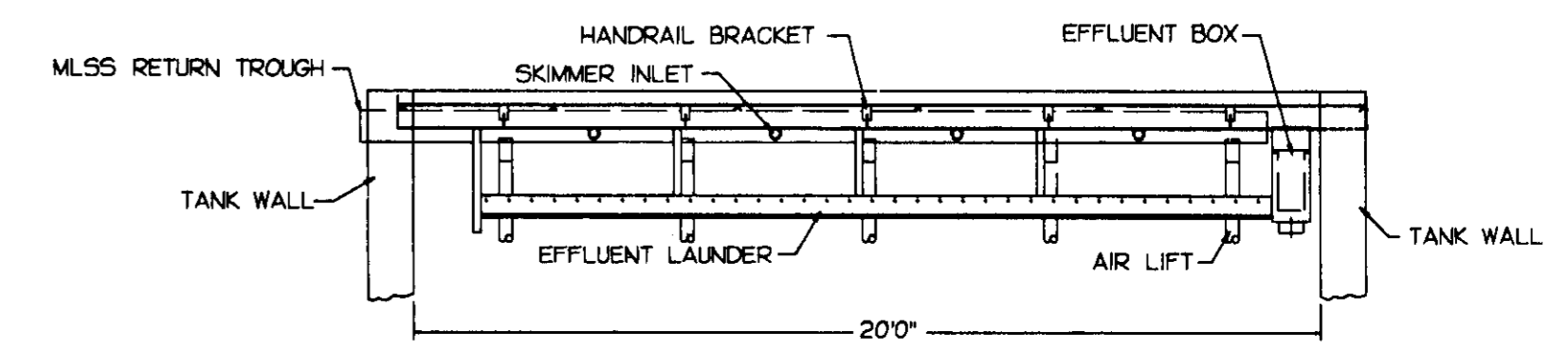
OFF- EL 1.75-2.0
 ON- EL 2.5-3.5
 ALARM- EL OF OVERFLOW WEIR



CLARATOR CROSS SECTION



TOP VIEW SPLIT CLARATOR MODEL 20160



SIDE VIEW OF SPLIT CLARATOR (TOP HALF)

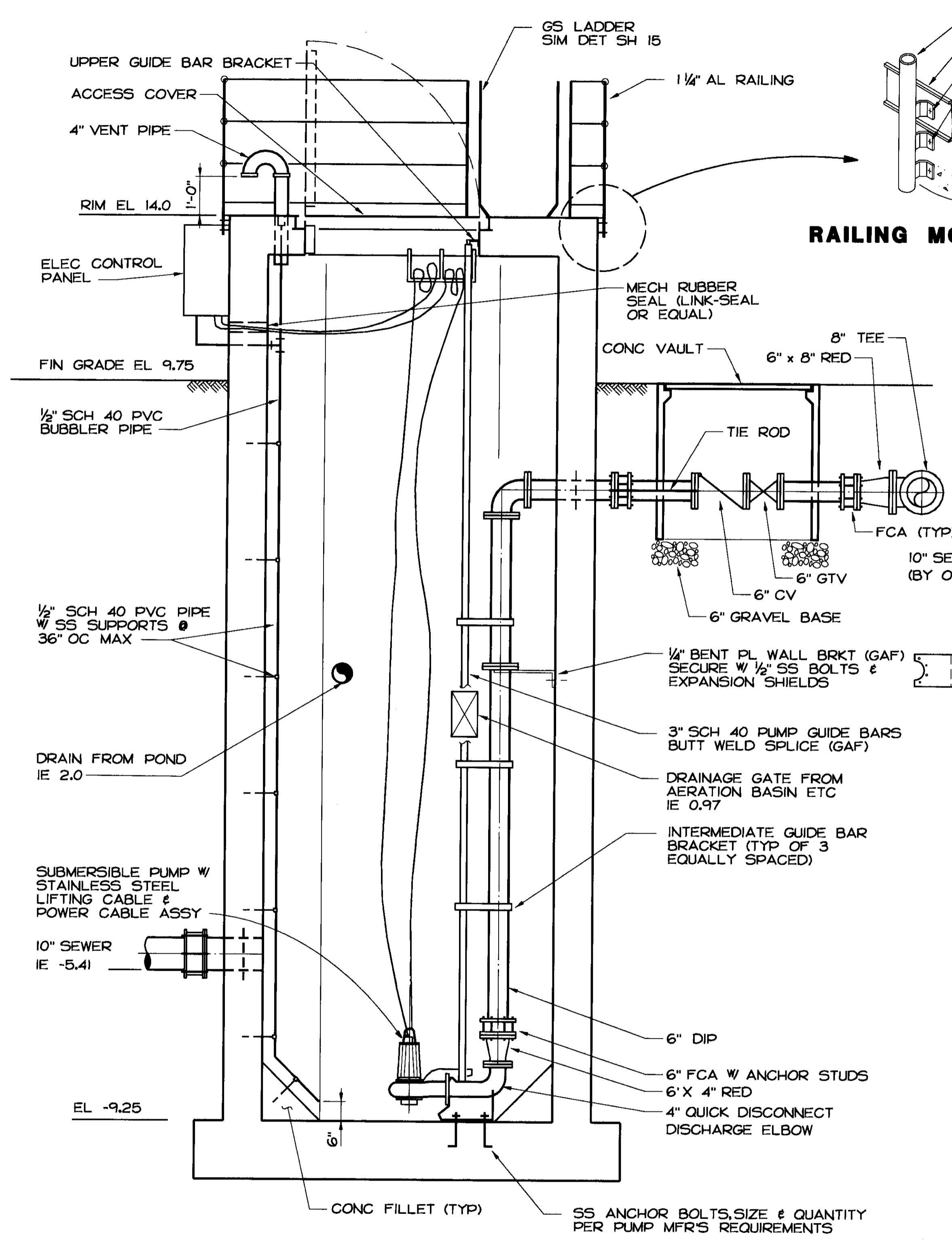


RECORD DRAWING

SU-2891

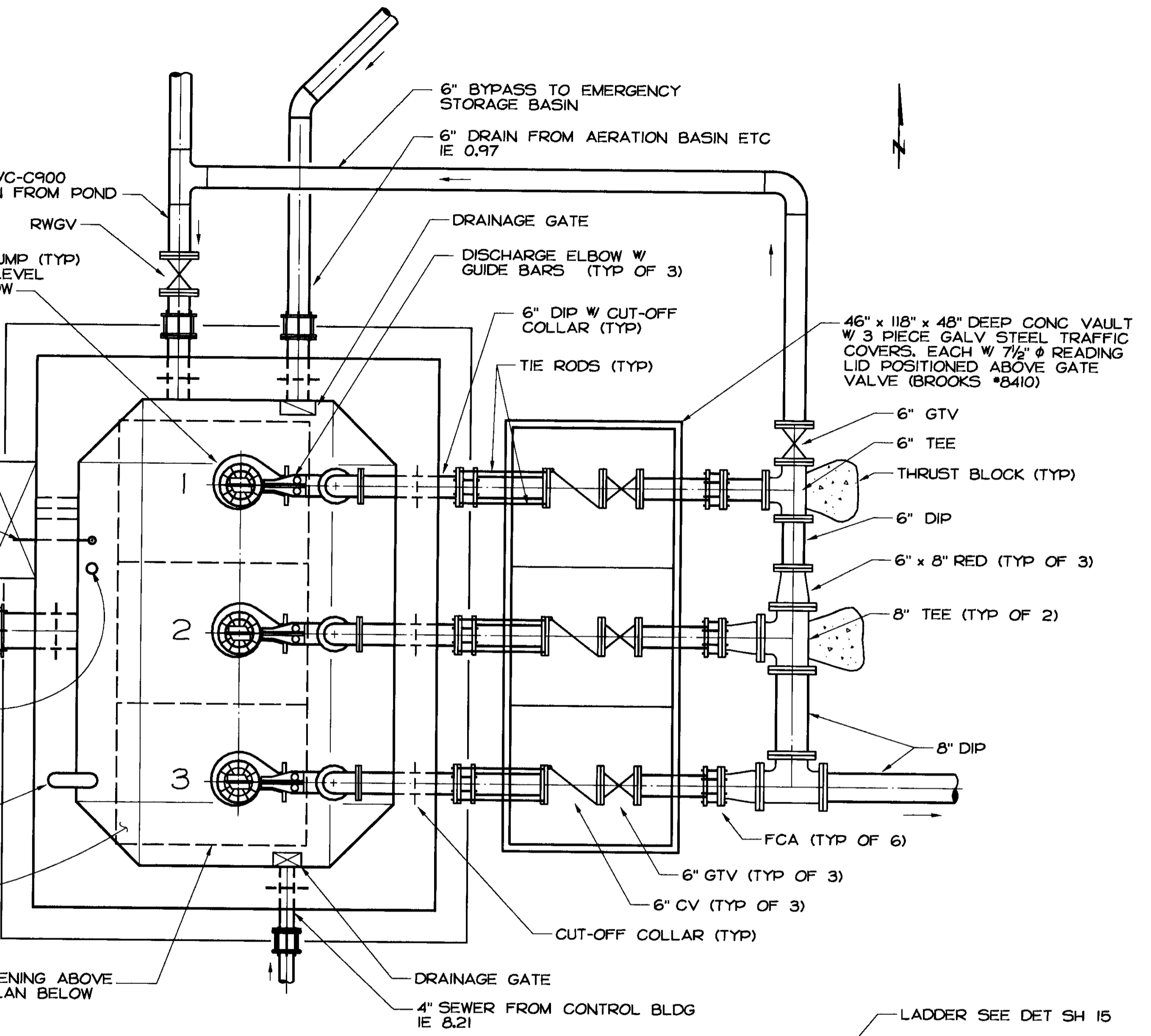
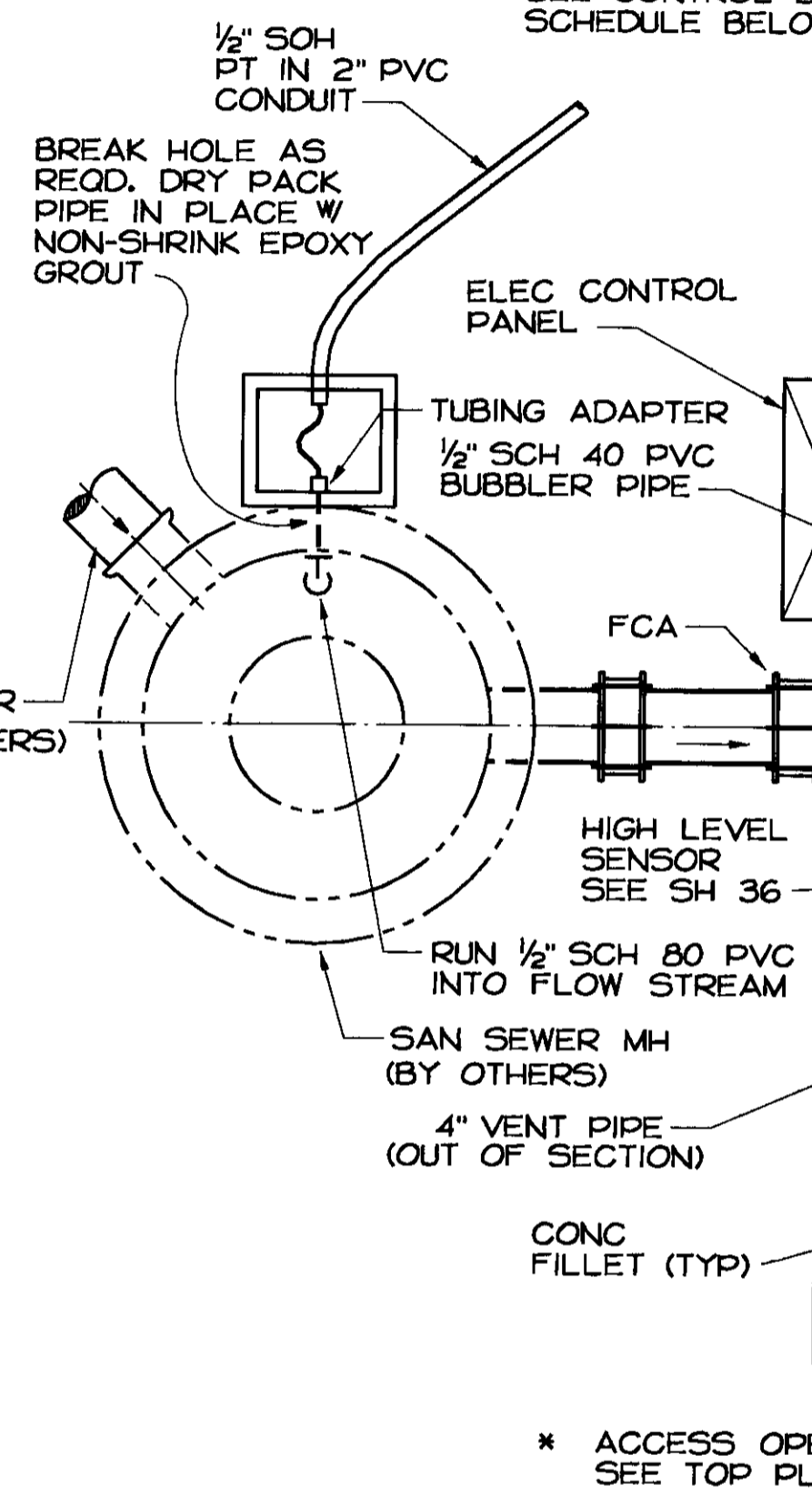
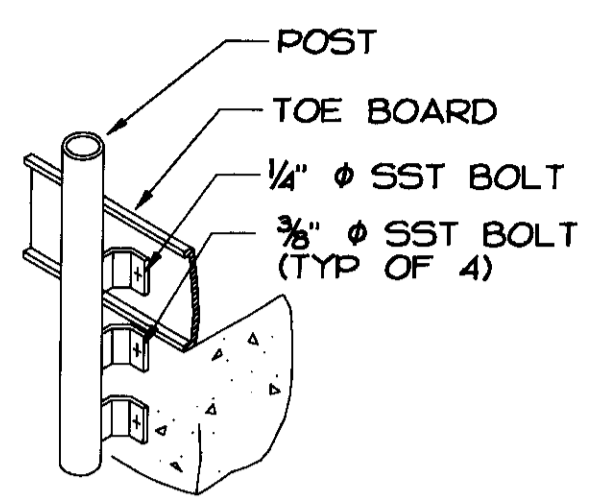
SCALE 1/4" = 1'-0"	DATE AUGUST 1994	DESIGNED ERS	SUBMITTED	DEWANTE AND STOWELL CONSULTING ENGINEERS SACRAMENTO, CALIFORNIA	FLAG CITY SAN JOAQUIN CO., CALIFORNIA WASTEWATER TREATMENT FACILITIES	AERATION BASIN, CLARIFIER, SURGE BASIN AND AEROBIC DIGESTER MECHANICAL PLAN & SECTIONS	DRAWING NUMBER	SHEET NUMBER
	FILE 93423	DRAWN MVW	RECOMMENDED					

REVISION	DESCRIPTION	BY	APP	DATE



SECTION

RAILING MOUNTING

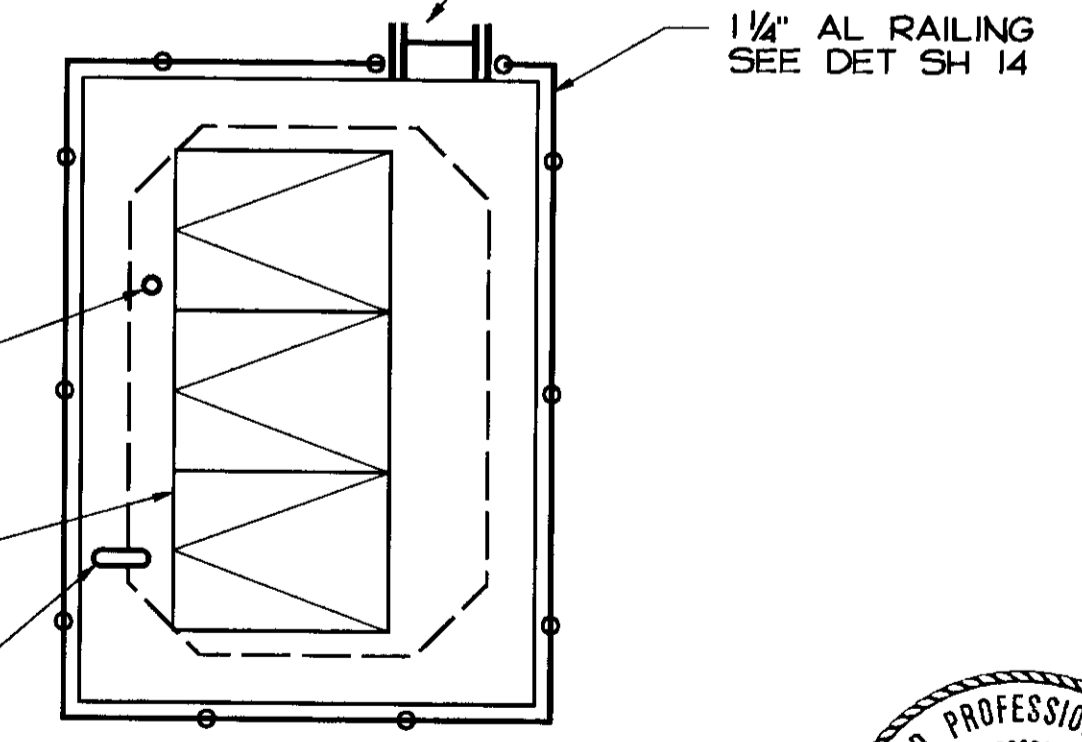


PLAN

RAW SEWAGE PUMP CONTROL LEVELS

	ON EL	OFF EL
PRIMARY PUMP	-6.75	-8.25
SECONDARY PUMP	-5.45	-7.45
TERTIARY PUMP	-4.95	-5.95
ALARM	-4.25	

ALTERNATE PUMPS AUTOMATICALLY. NORMALLY ONLY TWO PUMPS REQUIRED.



TOP PLAN

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



SCALE 1/2" = 1'-0"	DATE AUGUST 1994	DESIGNED ERS	SUBMITTED _____
FILE 93423	DRAWN MVW	CHECKED ERS	RECOMMENDED _____
			APPROVED _____

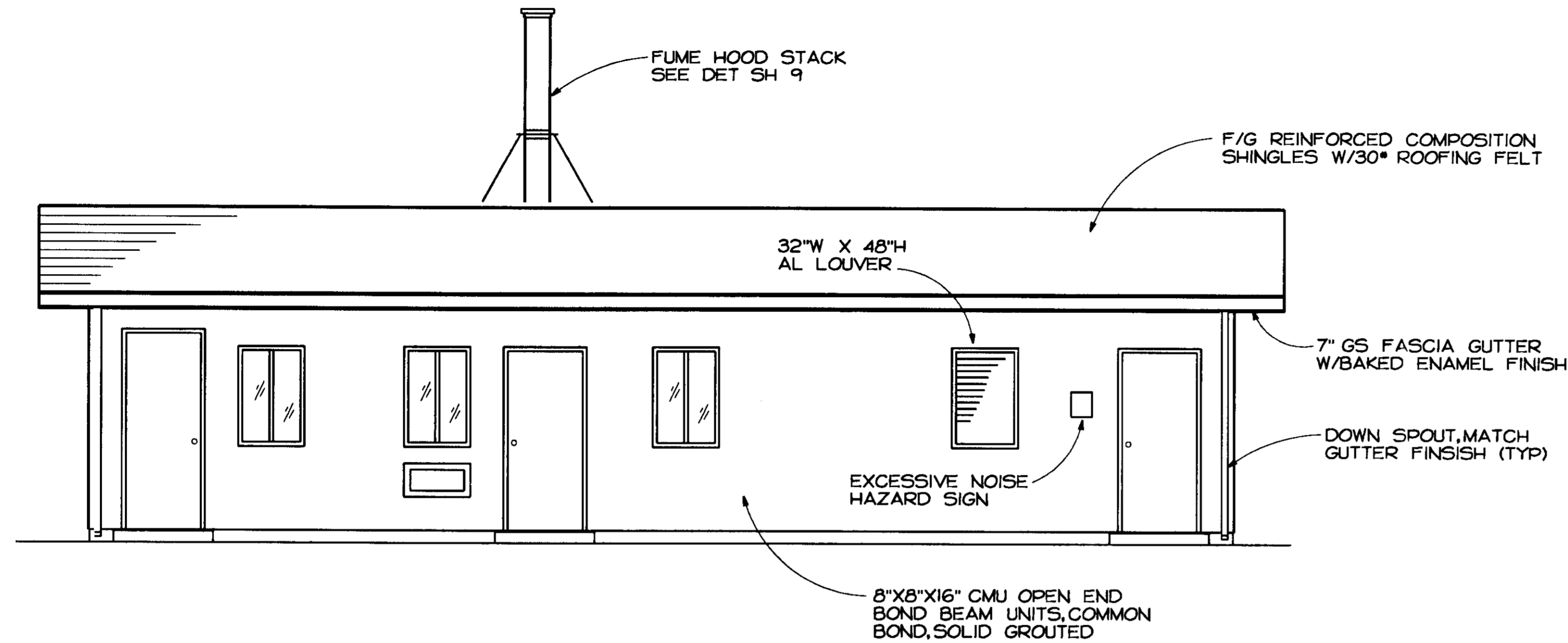
DEWANTE AND STOWELL
CONSULTING ENGINEERS
SACRAMENTO, CALIFORNIA

FLAG CITY
SAN JOAQUIN CO., CALIFORNIA
WASTEWATER TREATMENT FACILITIES

RAW SEWAGE PUMP STATION
MECHANICAL PLAN AND SECTION

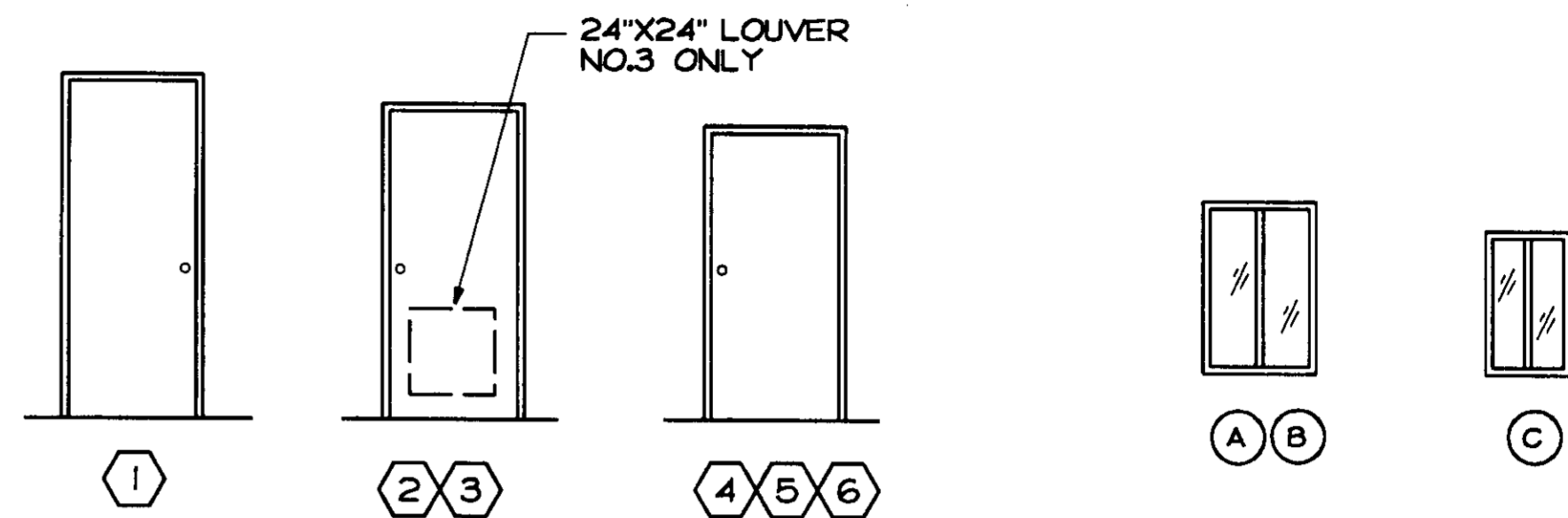
DRAWING NUMBER	SHEET NUMBER
	11 of 44

REVISION	DESCRIPTION	BY	APP	DATE
A	RECORD DWG. CHANGES INCORP.	DCL	RMD	6-95



ELEVATION

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

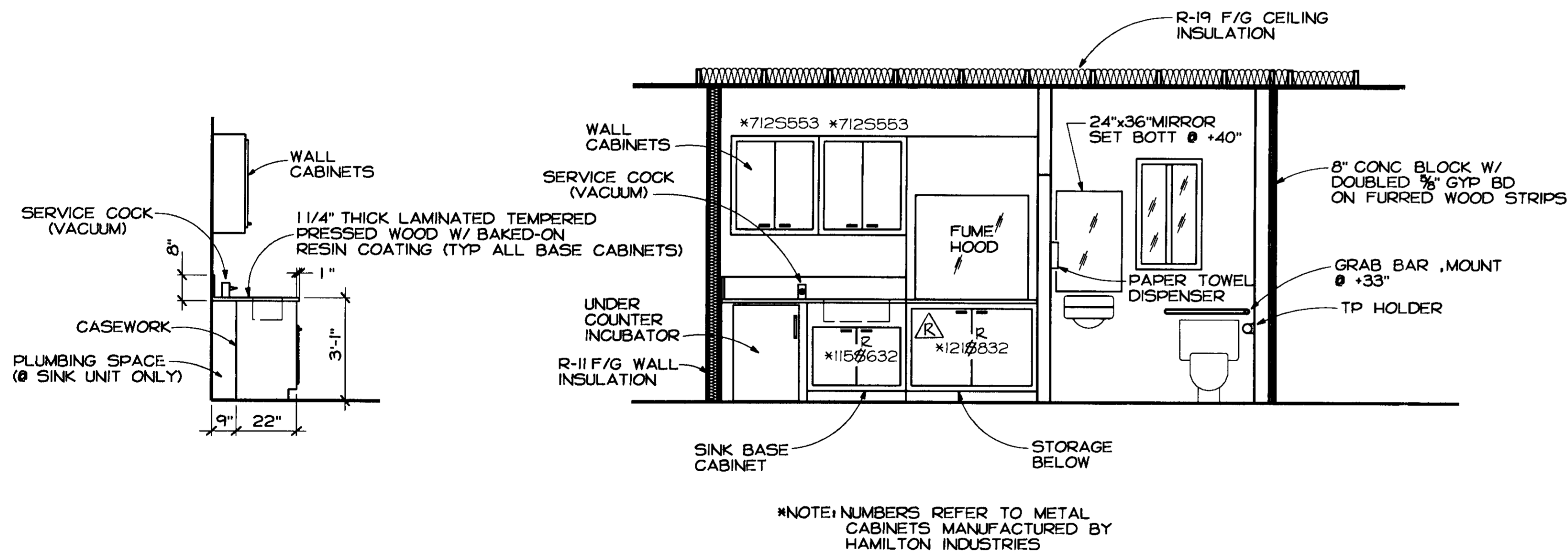


- ① 3'-0" X 7'-10" X 1 3/4" HOLLOW METAL DOOR
- ②③ 3'-0" X 7'-2" X 1 3/4" HOLLOW METAL DOOR
- ④ 2'-8" X 6'-8" X 1 3/4" SOLID CORE WOOD DOOR
- ⑤ 2'-8" X 6'-8" X 1 3/4" HOLLOW METAL DOOR SPECIAL WEATHER STRIP REQ'D
- ⑥ 3'-0" X 6'-8" X 1 3/4" SOLID CORE WOOD DOOR

- Ⓐ 2'-8" W X 3'-8" H HORIZ SLIDING ALUMINUM W/DUAL GLAZING
- Ⓑ 4'-0" W X 3'-8" H HORIZ SLIDING ALUMINUM W/DUAL GLAZING
- Ⓒ 2'-0" W X 3'-0" H HORIZ SLIDING ALUMINUM W/DUAL OBSCURE GLAZING

DOOR/WINDOW SCHEDULE

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



LAB/BATH ELEVATIONS

SCALE : 3/8" = 1'-0"

NAME	ROOM FINISH SCHEDULE										REMARKS
	FLOORS	BASE	WALLS		CLG.						
	CONCRETE	VINYL TILE	VINYL COVE	GYP BOARD	CONC. BLOCK	GYP BOARD	INSULATION	CEILING HT.			
CONTROL/ELEC	0		0	0	0	0	0	8'-6"			
LABORATORY	0		0	0	0	0	0	8'-6"			
TOILET	0		0	0	0	0	0	8'-6"			
BLOWER ROOM	0		0	0	0	0	0	8'-6"			
WORKSHOP	0		0	0	0	0	0	8'-6"			

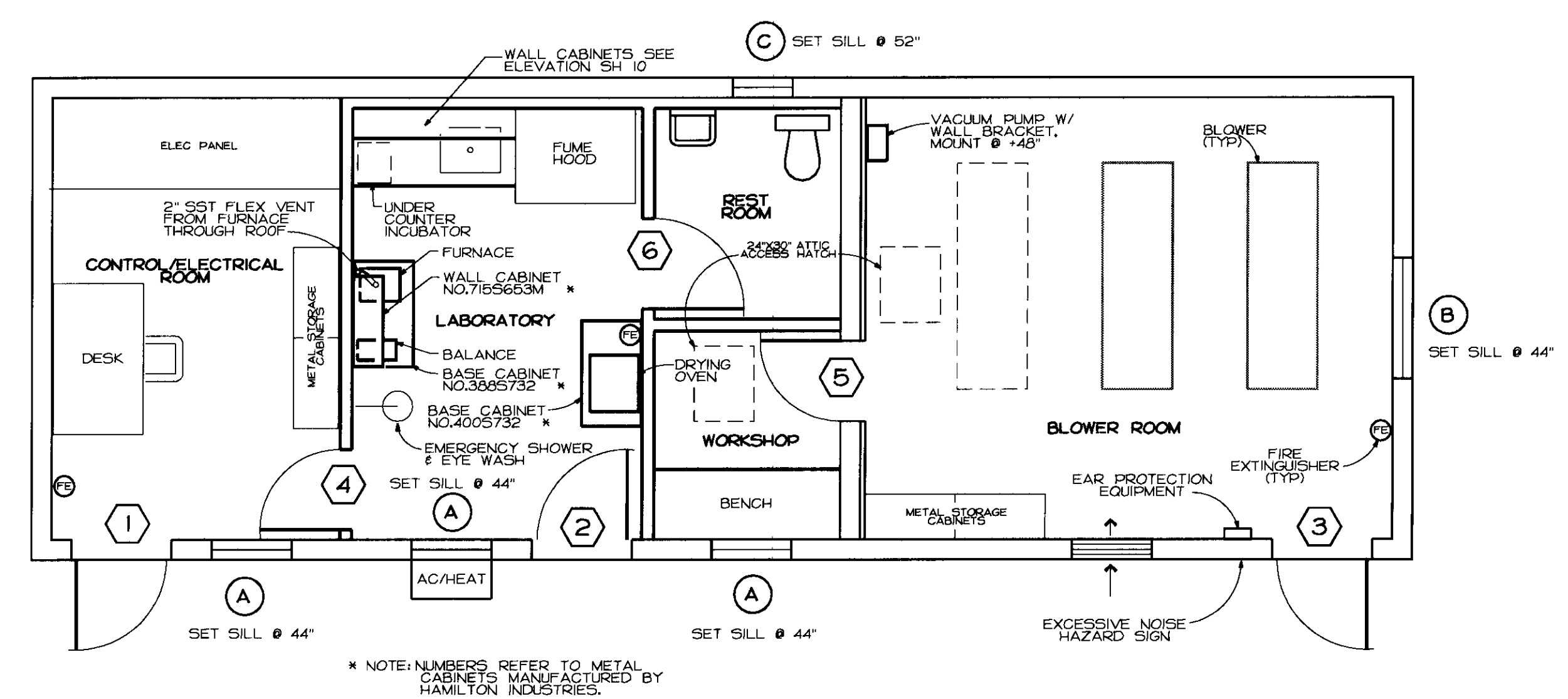
SU-2893



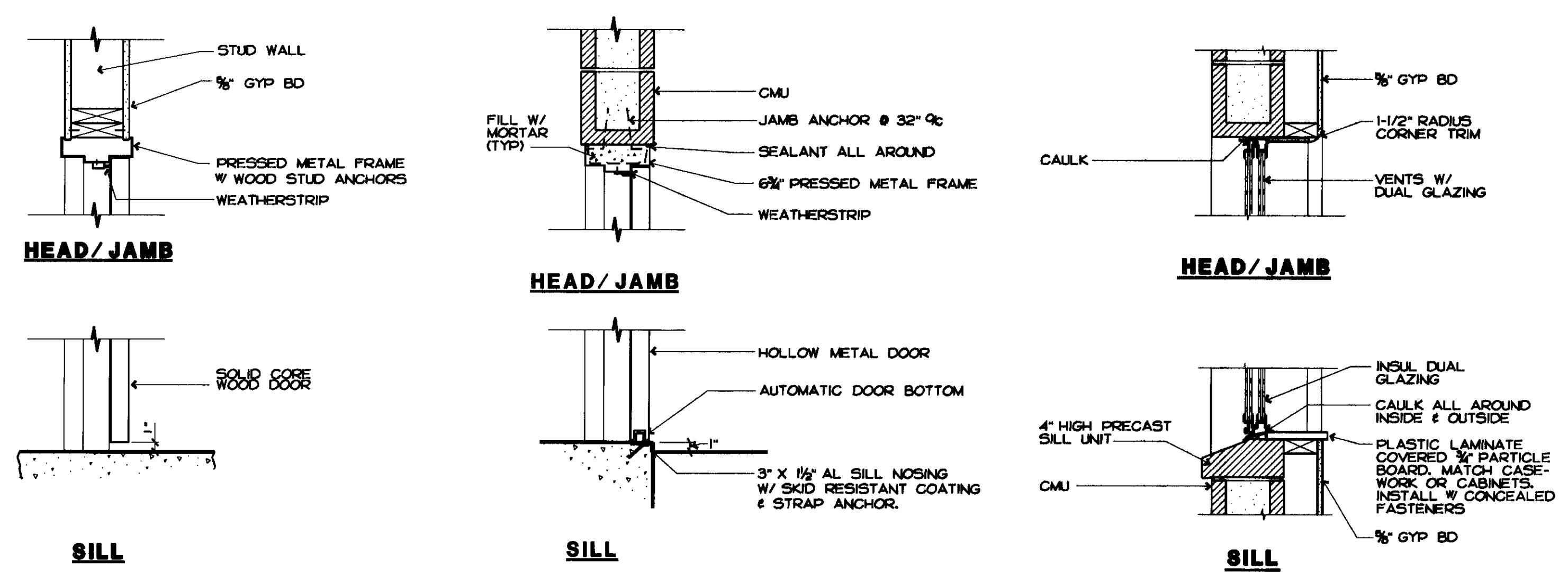
RECORD DRAWING

SCALE AS SHOWN	DATE AUGUST 1994 FILE 93423	DESIGNED RRR DRAWN RRR CHECKED ERS	SUBMITTED RECOMMENDED APPROVED	DEWANTE AND STOWELL CONSULTING ENGINEERS SACRAMENTO, CALIFORNIA	FLAG CITY SAN JOAQUIN CO., CALIFORNIA WASTEWATER TREATMENT FACILITIES	CONTROL BUILDING ELEVATIONS AND SCHEDULES	DRAWING NUMBER	SHEET NUMBER 10 OF 44
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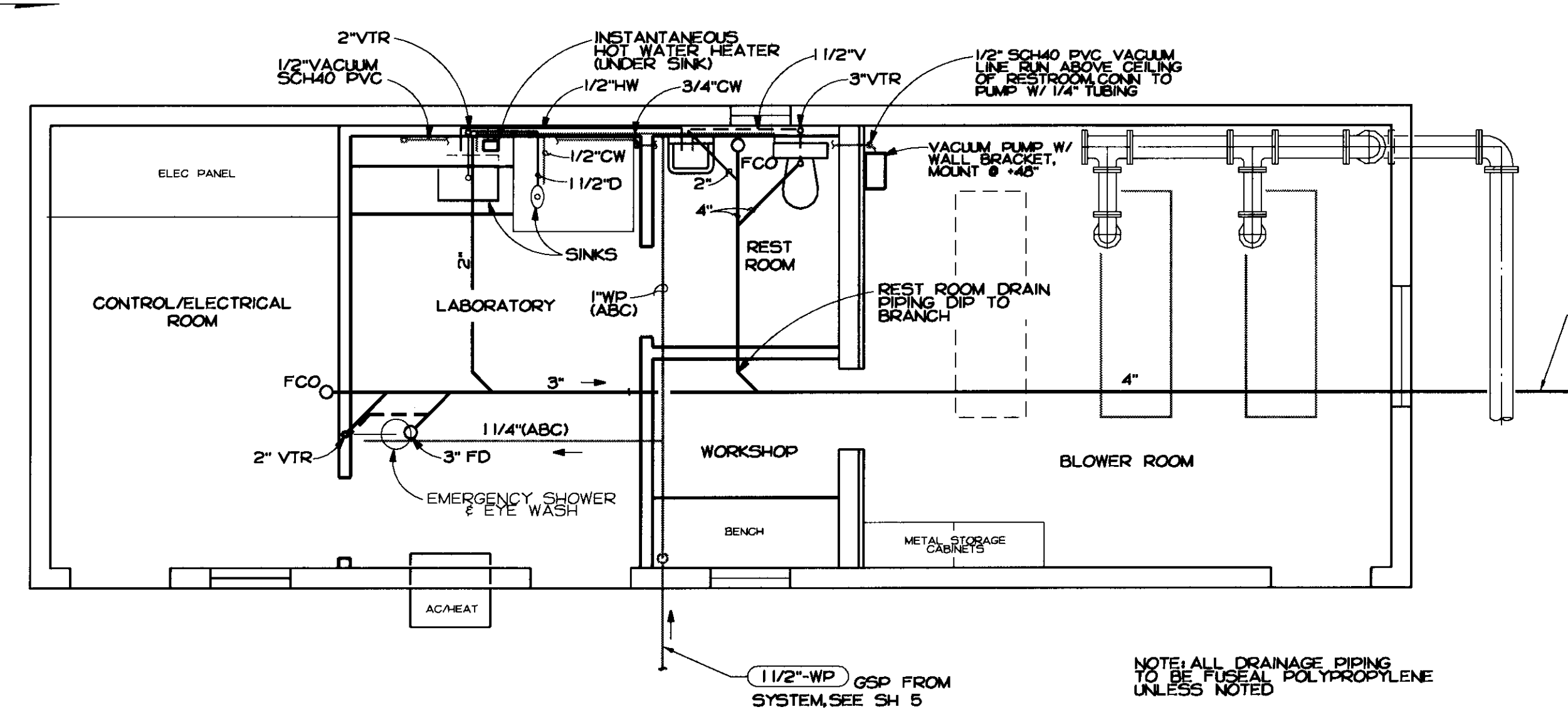
REVISION	DESCRIPTION	BY	APP	DATE



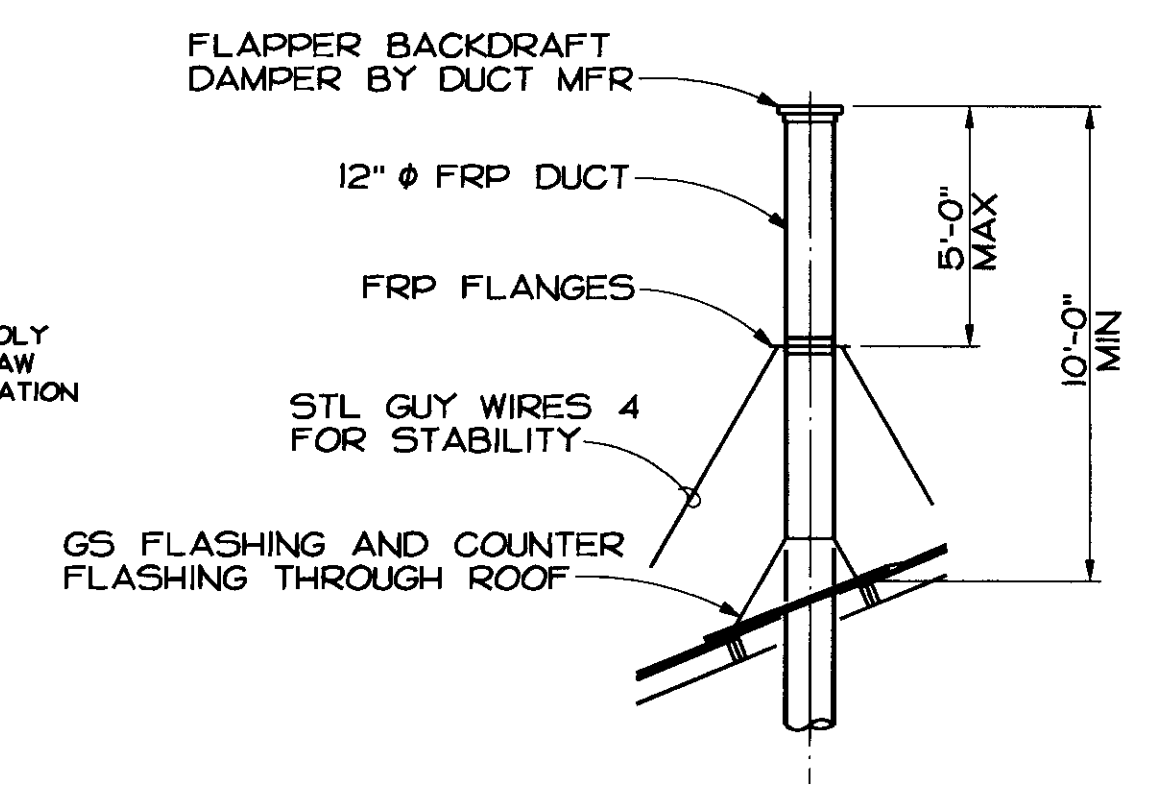
FLOOR PLAN
SCALE: 1/4" = 1'-0"



DOOR & WINDOW DETAILS
SCALE: 1/4" = 1'-0"



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



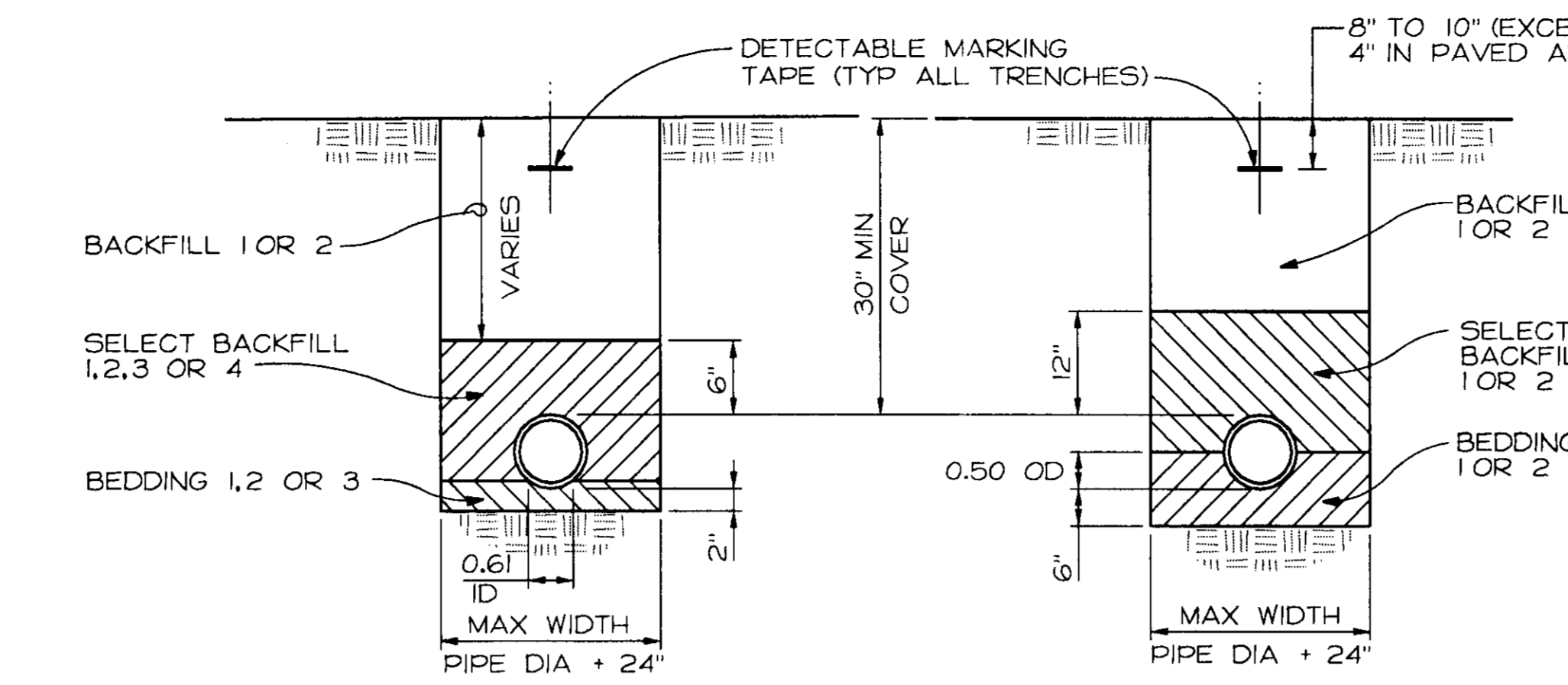
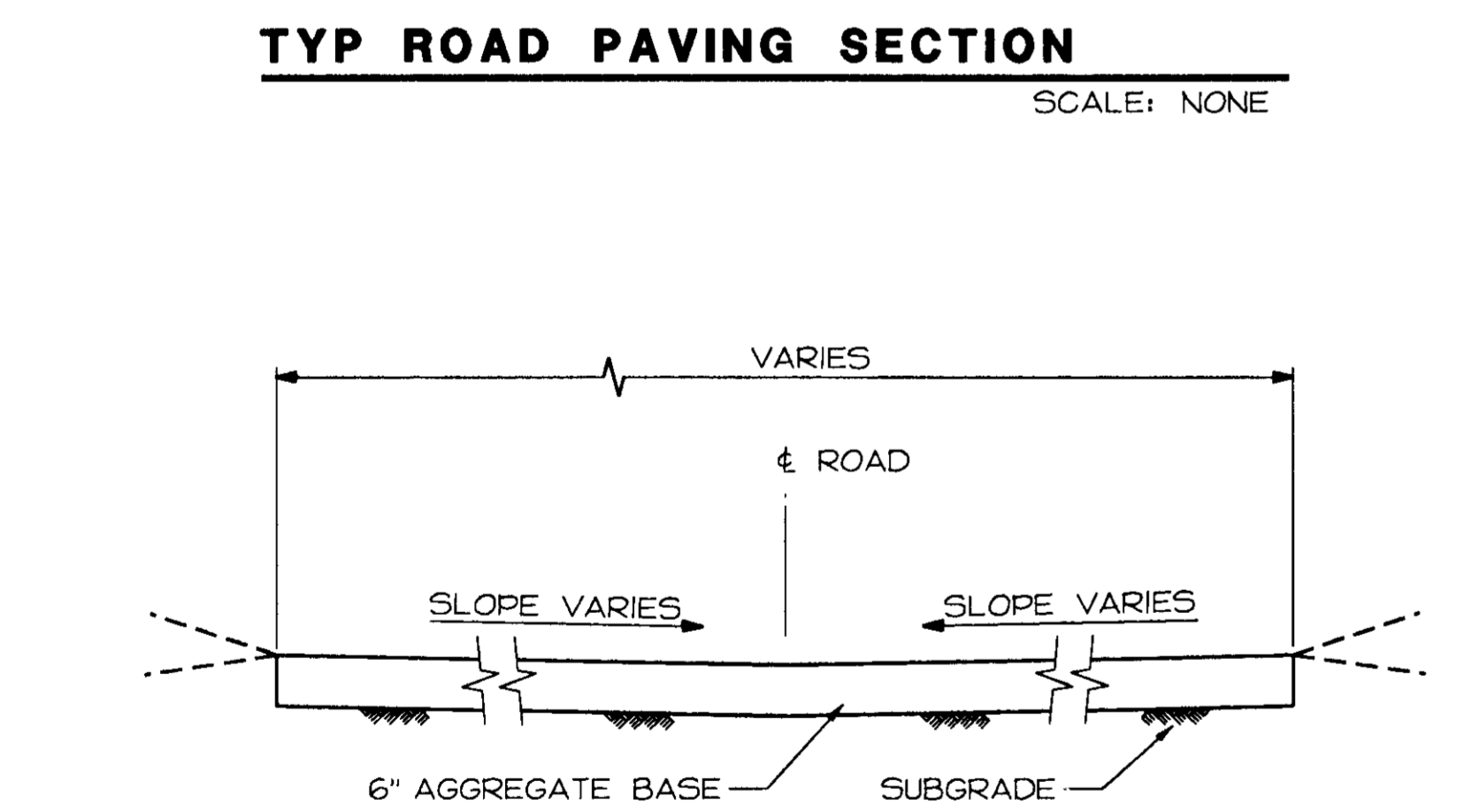
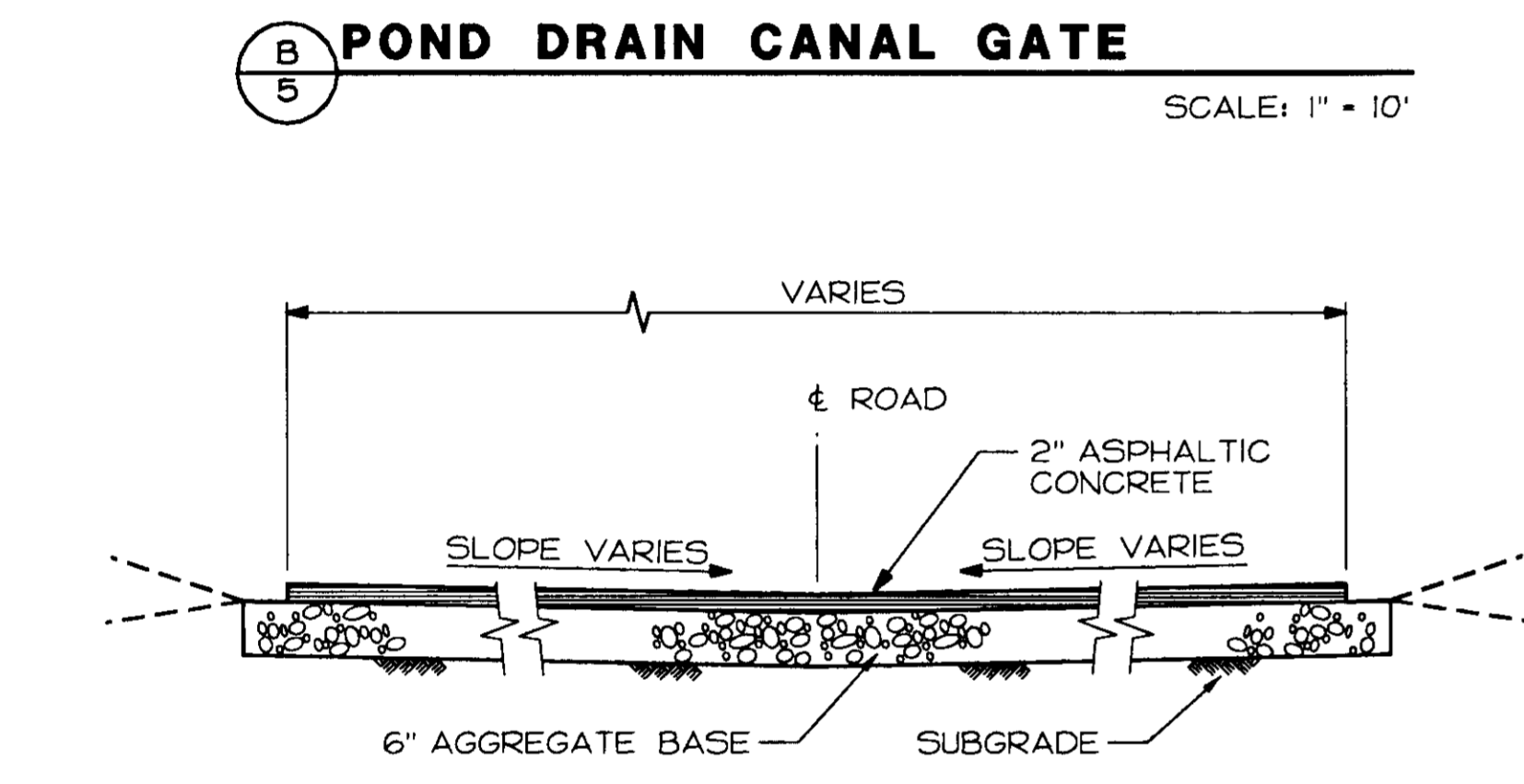
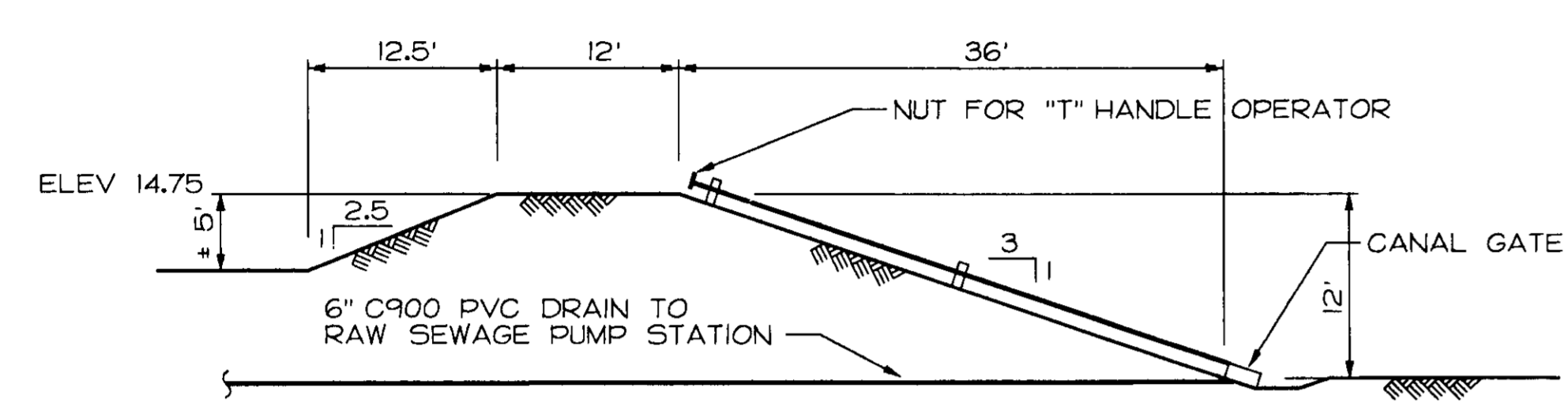
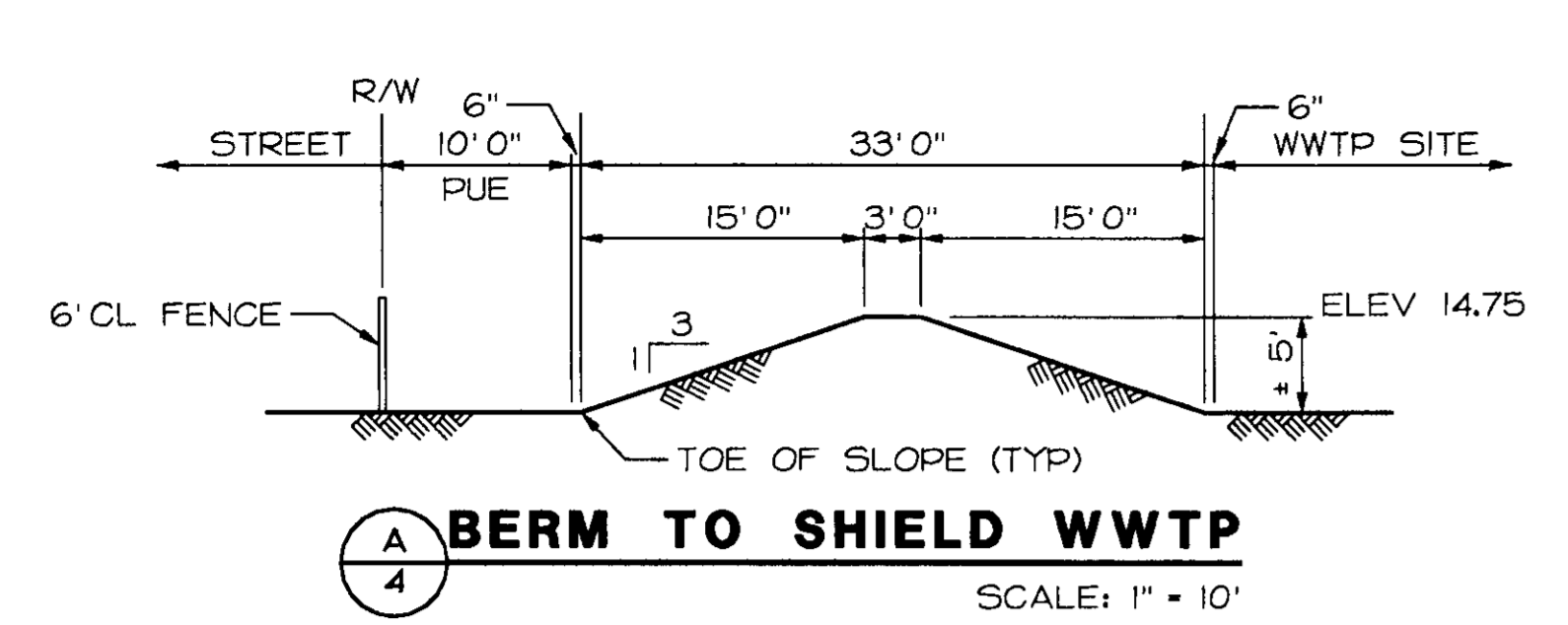
FUME HOOD DUCT DETAIL
SCALE: 1/4" = 1'-0"

SU-2894



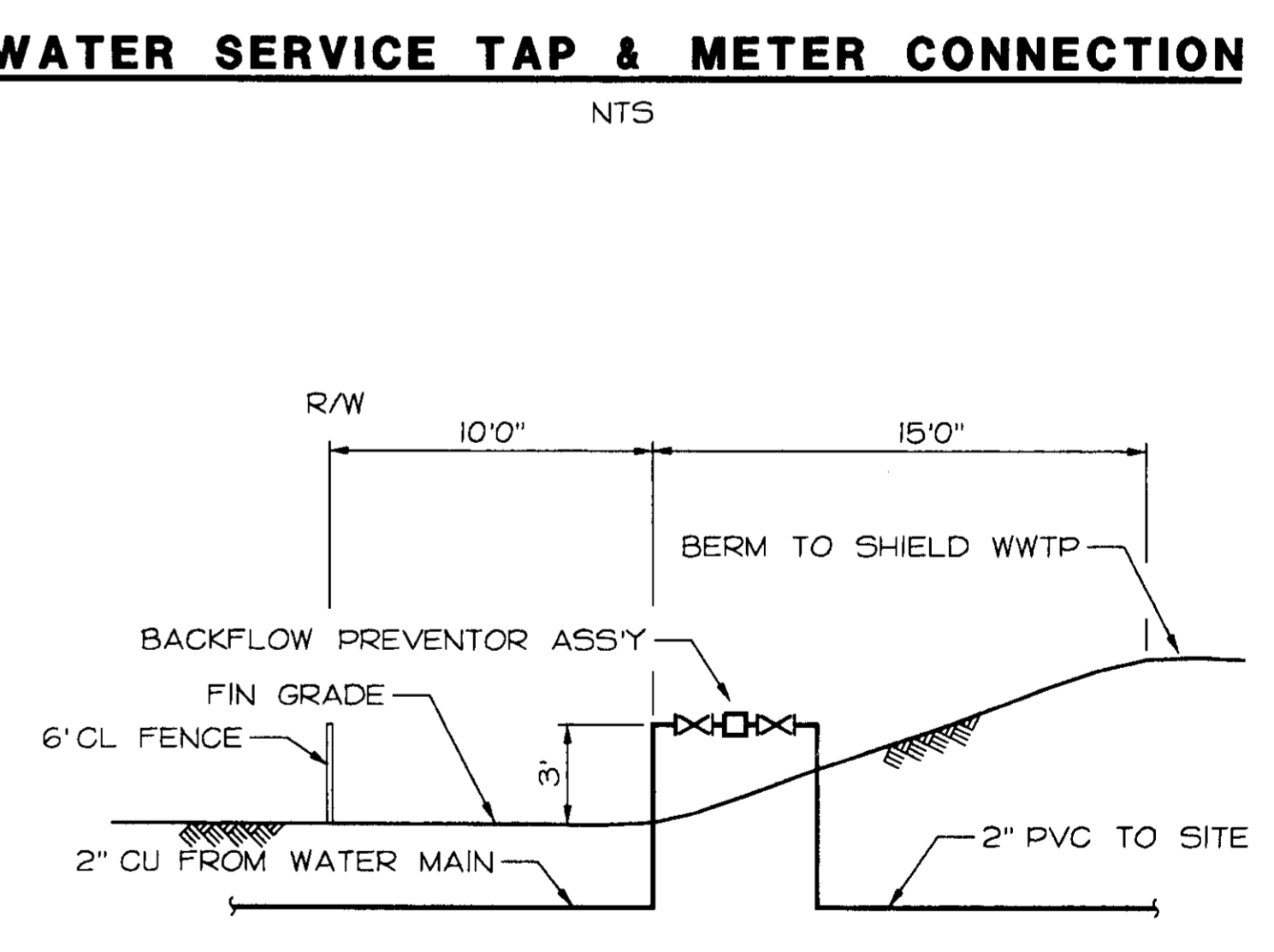
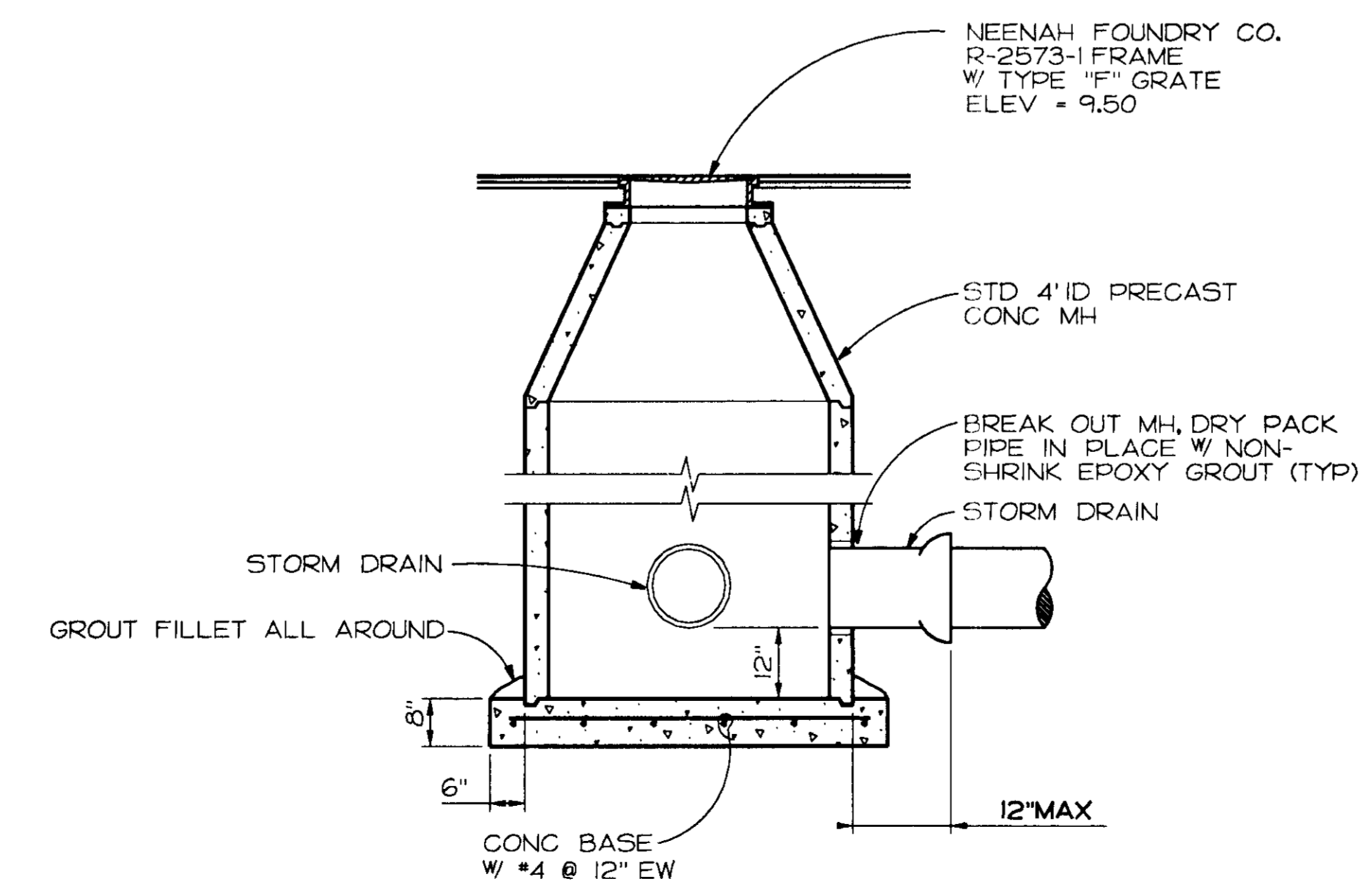
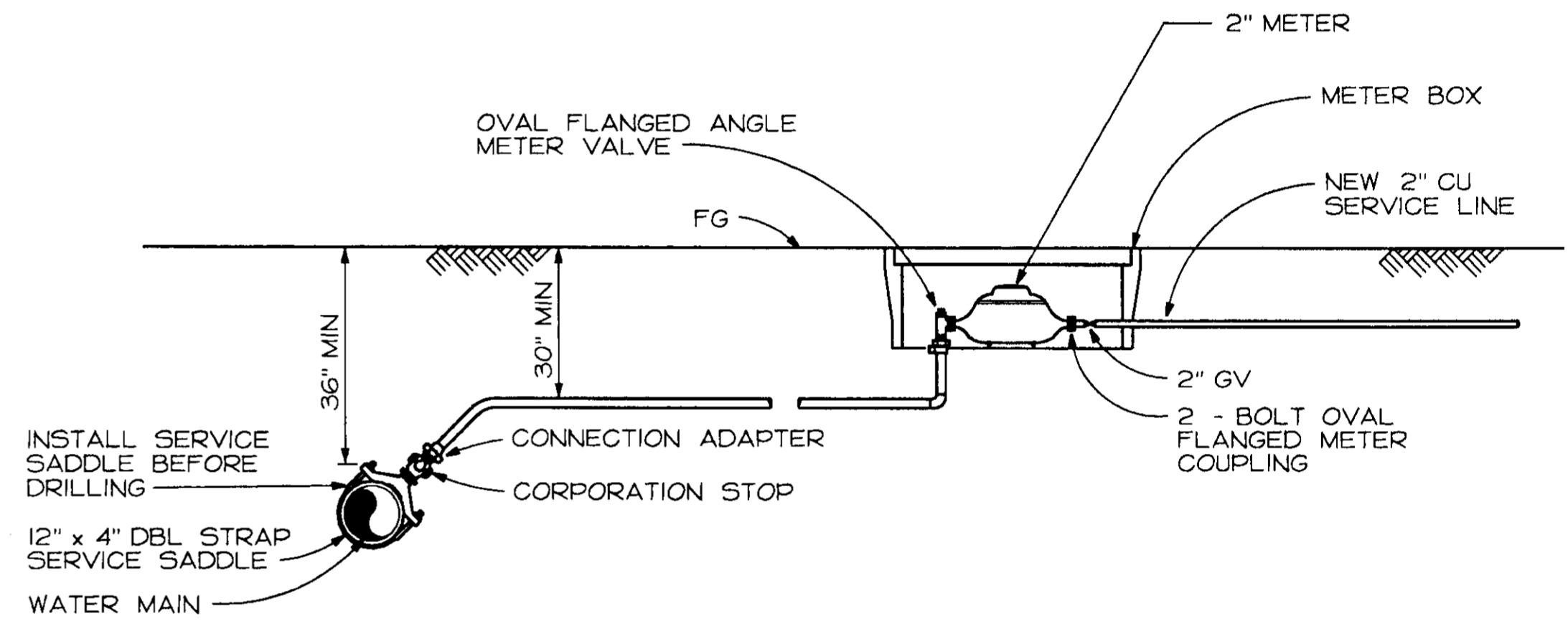
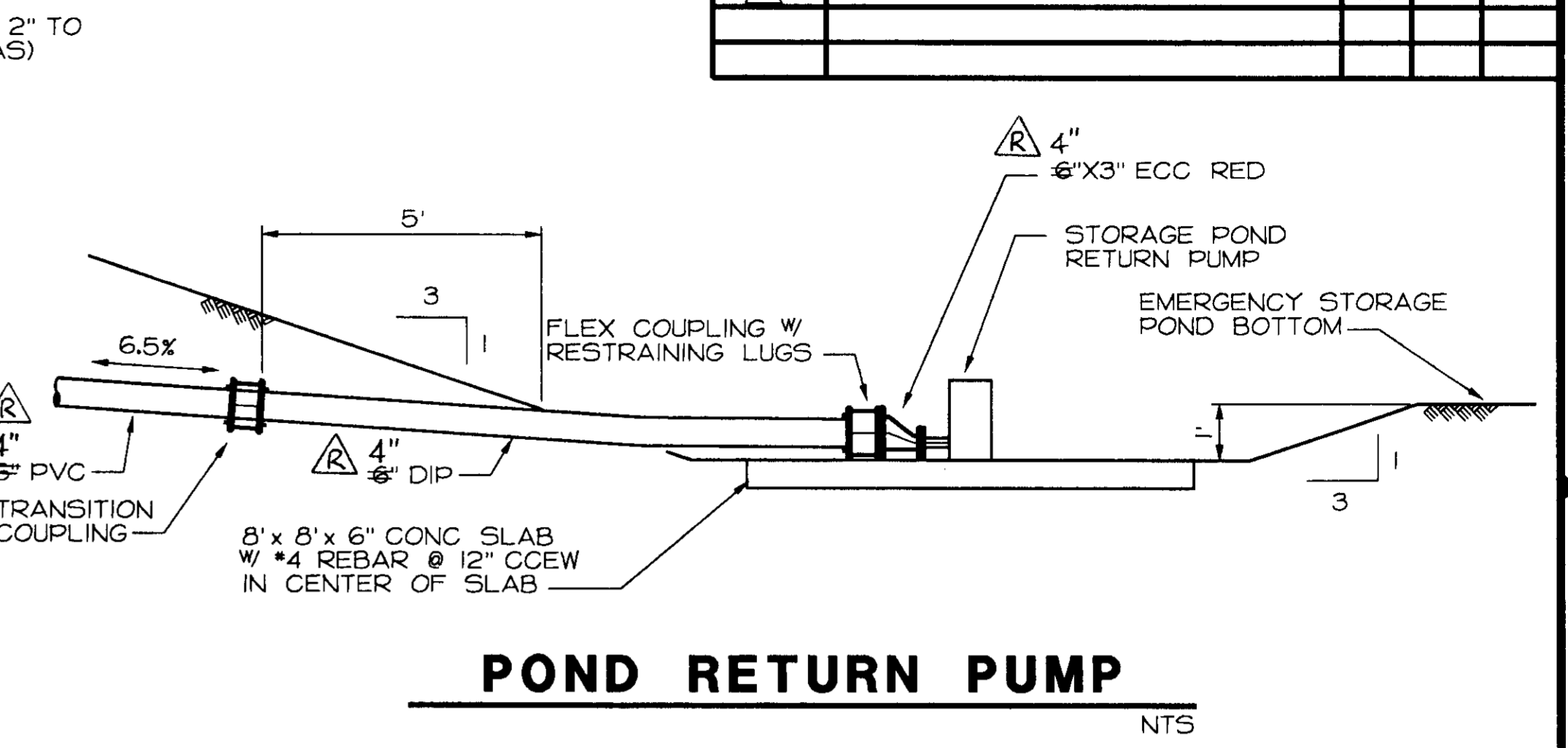
SCALE AS SHOWN	DATE AUGUST 1994 FILE 93423	DESIGNED DRAWN CHECKED RRR RRR ERS	SUBMITTED RECOMMENDED APPROVED	DEWANTE AND STOWELL CONSULTING ENGINEERS SACRAMENTO, CALIFORNIA	FLAG CITY SAN JOAQUIN CO., CALIFORNIA WASTEWATER TREATMENT FACILITIES	CONTROL BUILDING FLOOR AND PLUMBING PLANS & DETAILS	DRAWING NUMBER	SHEET NUMBER 9 of 44
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REVISION	DESCRIPTION	BY	APP	DATE
1	RECORD DWG. CHANGES INCORP.	DCL	RMD	6-95



TYPICAL TRENCH
NTS

NOTE:
RIGID INCLUDES ALL STEEL, CAST IRON, CONCRETE & CLAY PIPE.
FLEXIBLE INCLUDES ALL PLASTIC PIPE

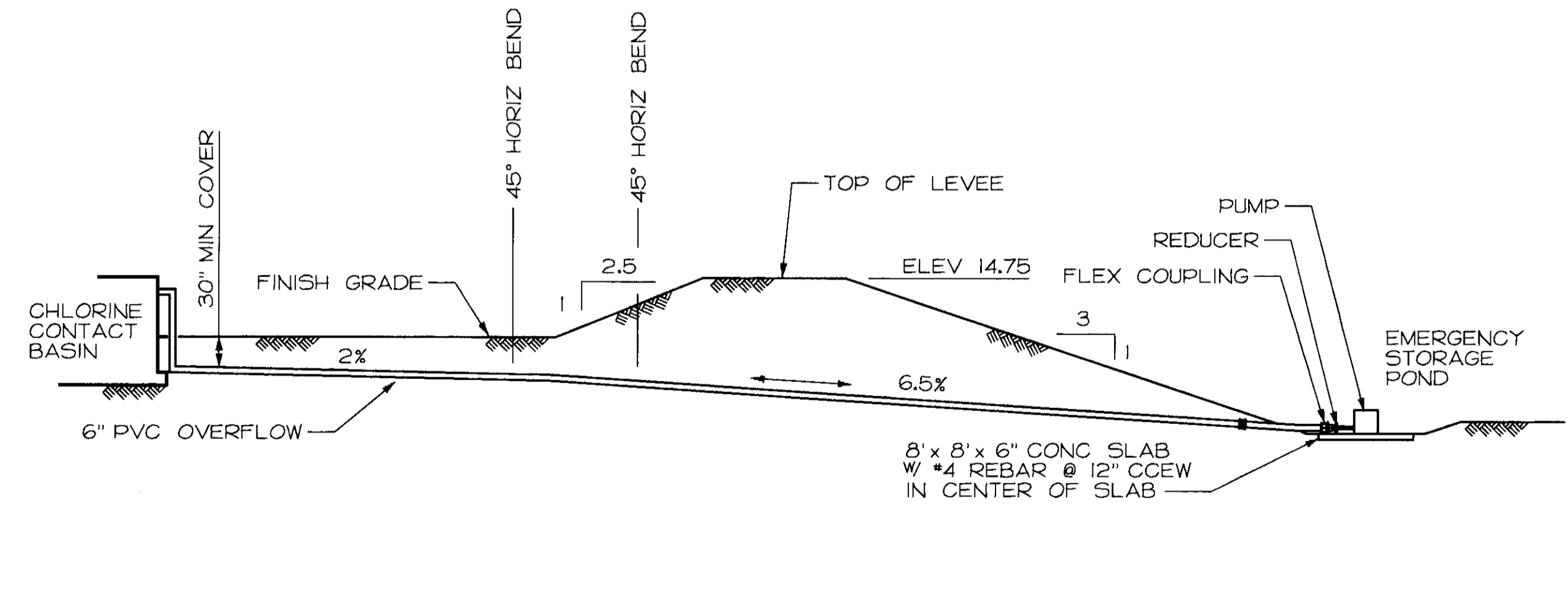
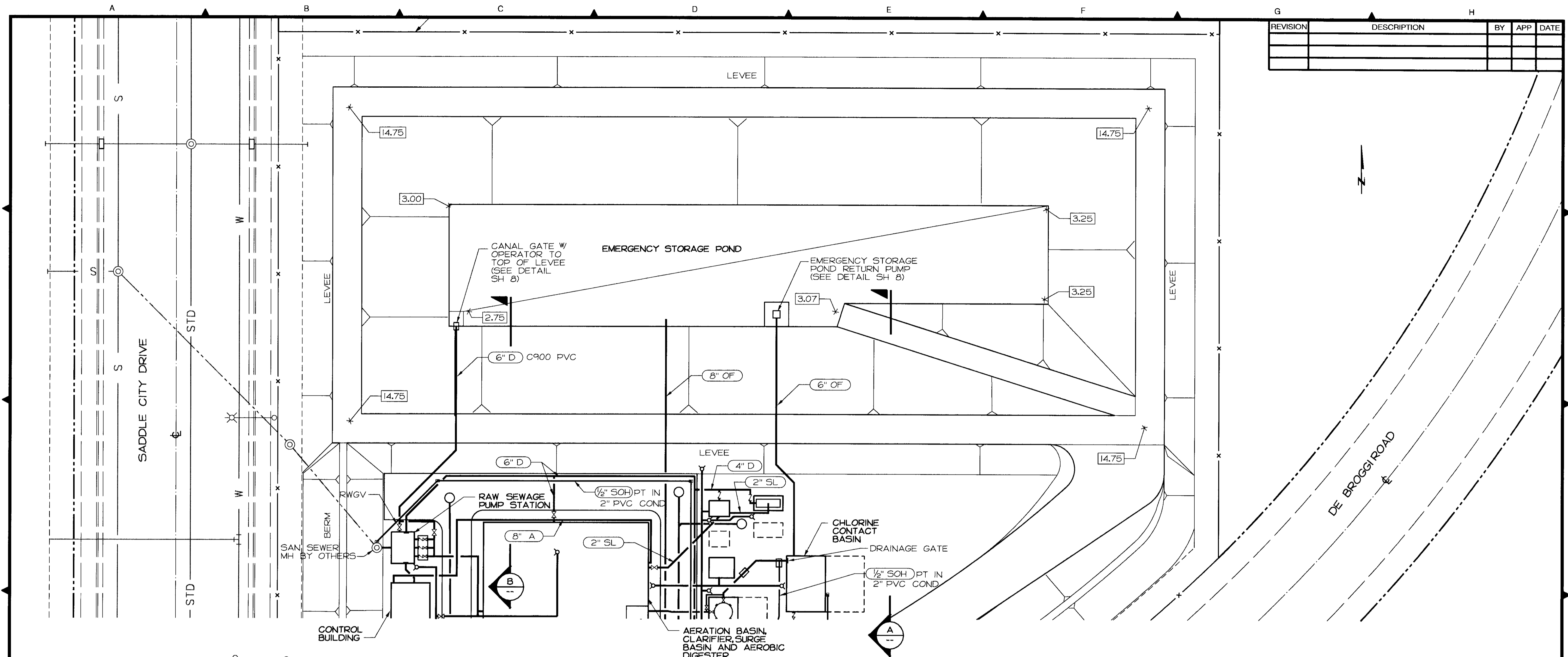


SU-2895

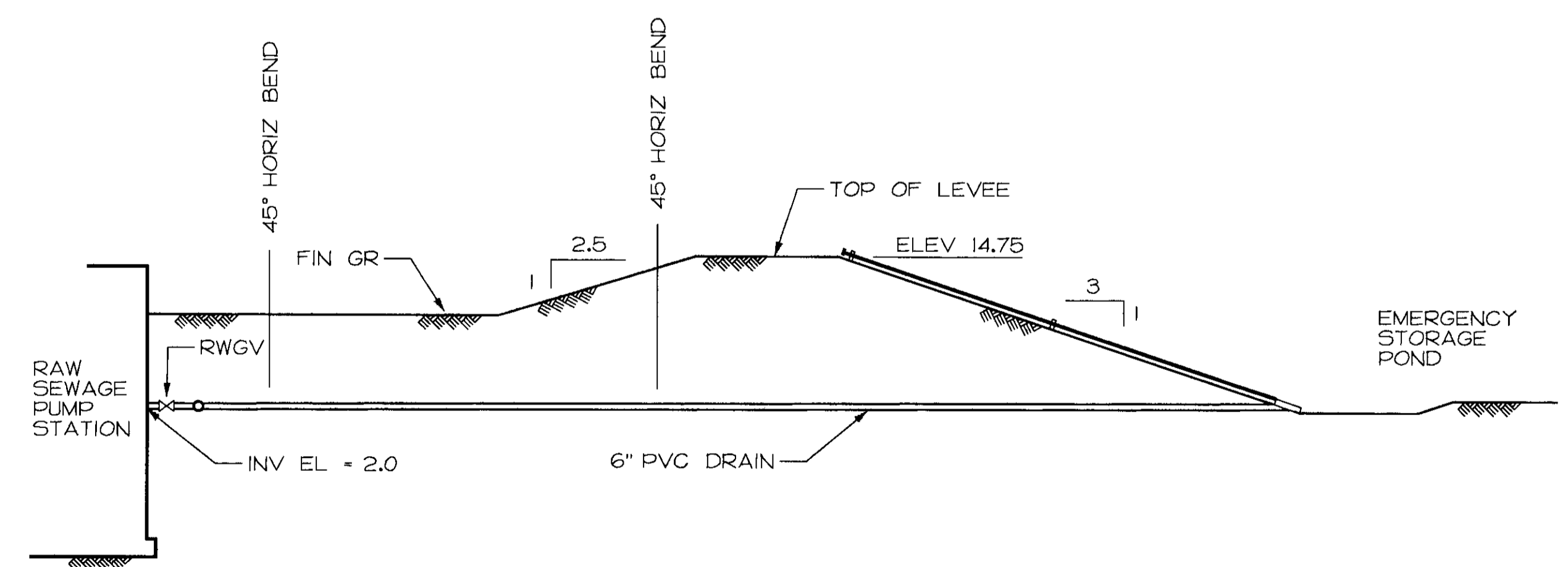
SCALE AS SHOWN	DATE AUGUST 1994	DESIGNED ERS	SUBMITTED		FLAG CITY SAN JOAQUIN CO., CALIFORNIA WASTEWATER TREATMENT FACILITIES	PAVING, DRAINAGE & UTILITIES DETAILS	DRAWING NUMBER	SHEET NUMBER
	FILE 93423	DRAWN MVW	RECOMMENDED					
		CHECKED ERS	APPROVED					8 OF 44

RECORD DRAWING

REVISION	DESCRIPTION	BY	APP	DATE



A CHLORINE CONTACT BASIN OVERFLOW
SCALE: 1" = 10'



B STORAGE POND DRAIN
SCALE: 1" = 10'

SU-2896

DATE: AUG 28, 1994
FILE: W:\93423\wtrpand.dgn
USER: mvw

SCALE 1" = 20'	DATE AUGUST 1994	DESIGNED ERS	SUBMITTED ERS
	FILE 93423	DRAWN MVW	RECOMMENDED ERS
		CHECKED ERS	APPROVED ERS

DEWANTE AND STOWELL
CONSULTING ENGINEERS
SACRAMENTO, CALIFORNIA

FLAG CITY
SAN JOAQUIN CO., CALIFORNIA
WASTEWATER TREATMENT FACILITIES

**EMERGENCY STORAGE POND
PLAN & SECTIONS**

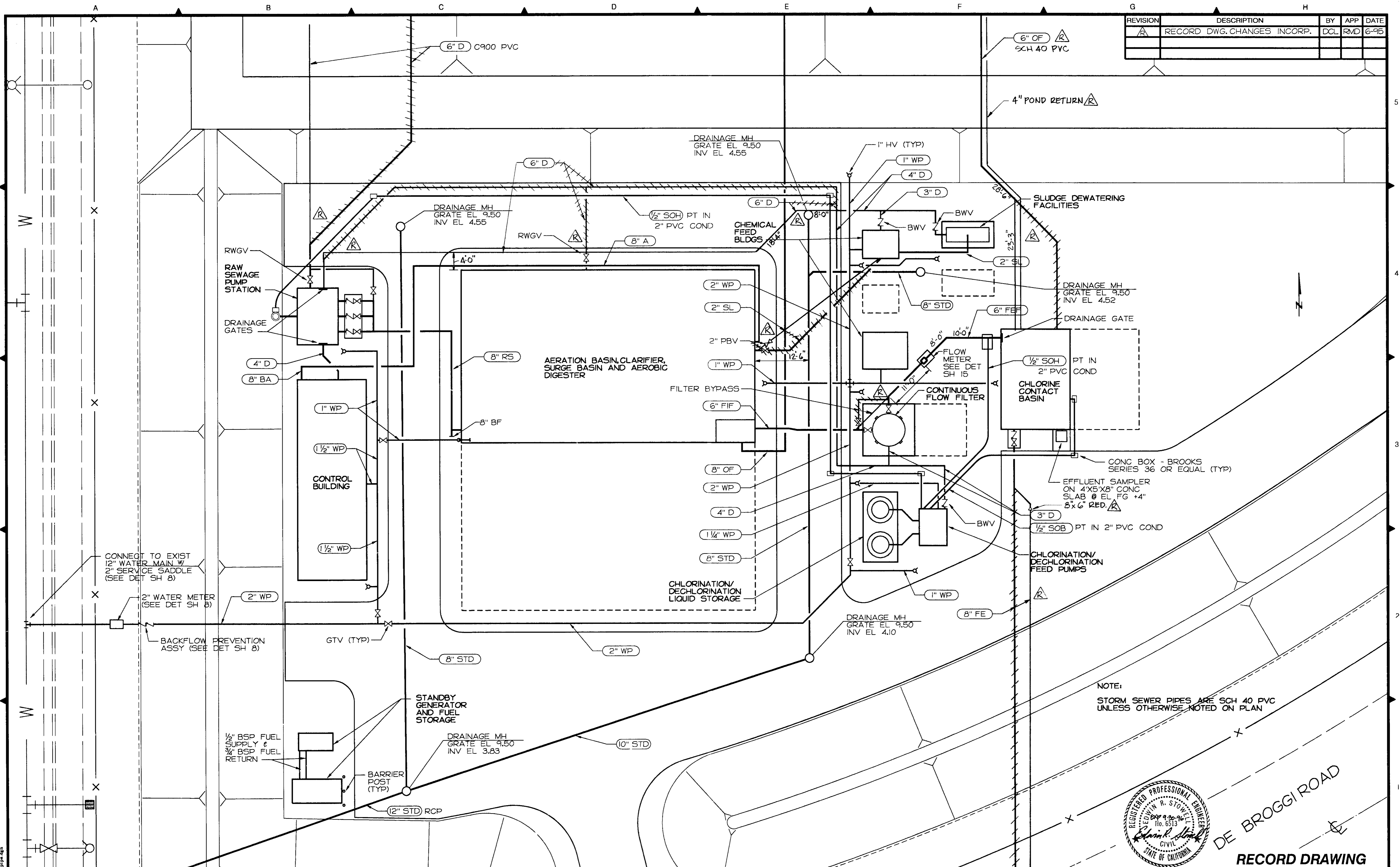
DRAWING NUMBER	SHEET NUMBER
	7 OF 44



SU-2897

DATE: AUG 28, 1994
 TIME: 10:30 AM
 FILE: 93423

REVISION	DESCRIPTION	BY	APP	DATE
A	RECORD DWG. CHANGES INCORP.	DCL	RMD	6-95



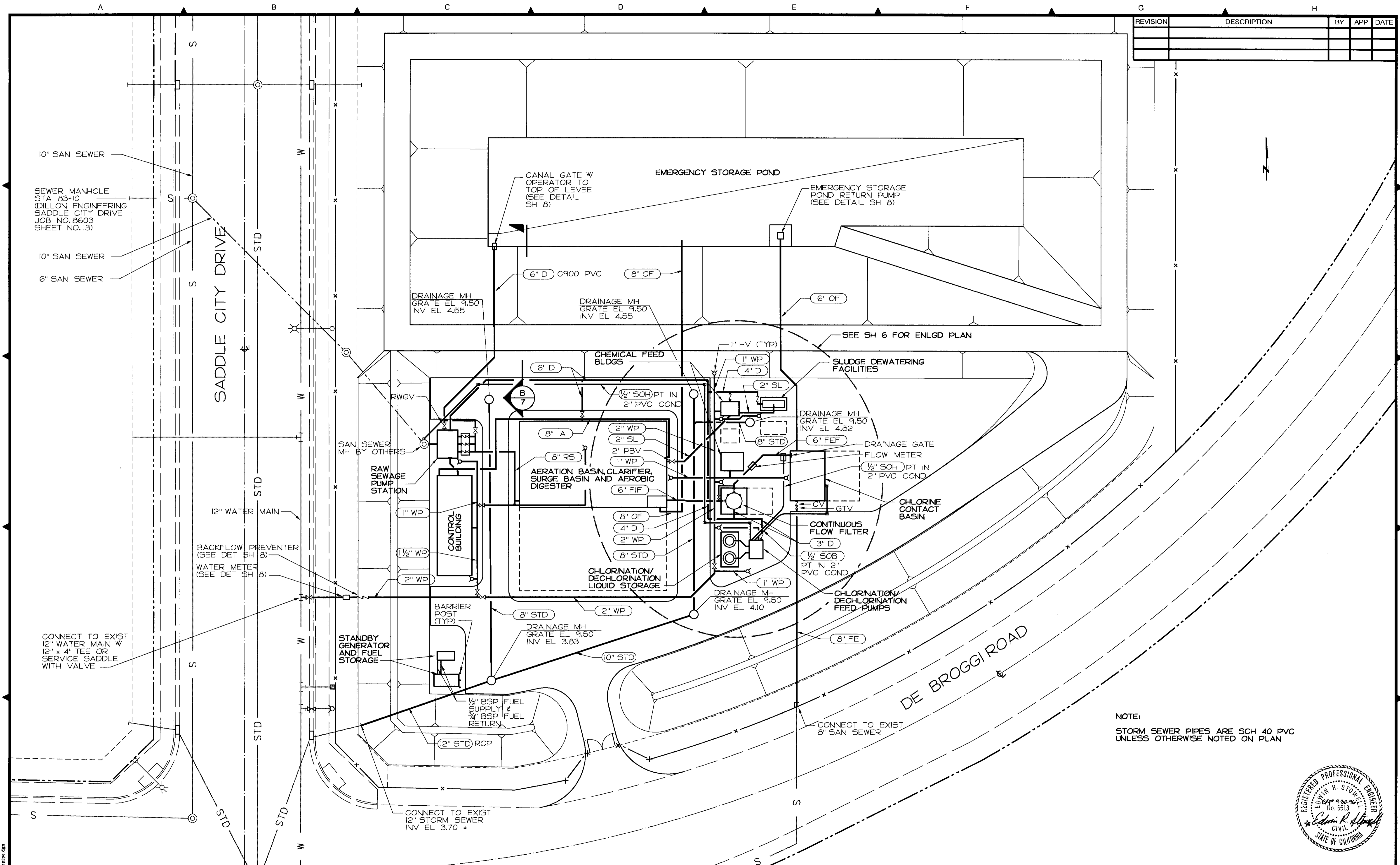
NOTE:
 STORM SEWER PIPES ARE SCH 40 PVC
 UNLESS OTHERWISE NOTED ON PLAN



DE BROGGI ROAD
RECORD DRAWING

SCALE 1" = 10'	DATE AUGUST 1994	DESIGNED ERS	SUBMITTED	DEWANTE AND STOWELL CONSULTING ENGINEERS SACRAMENTO, CALIFORNIA	FLAG CITY SAN JOAQUIN CO., CALIFORNIA WASTEWATER TREATMENT FACILITIES	ENLARGED PIPING PLAN	DRAWING NUMBER	SHEET NUMBER
	FILE 93423	DRAWN MVW	RECOMMENDED					
		CHECKED ERS	APPROVED					6 of 44

REVISION	DESCRIPTION	BY	APP	DATE



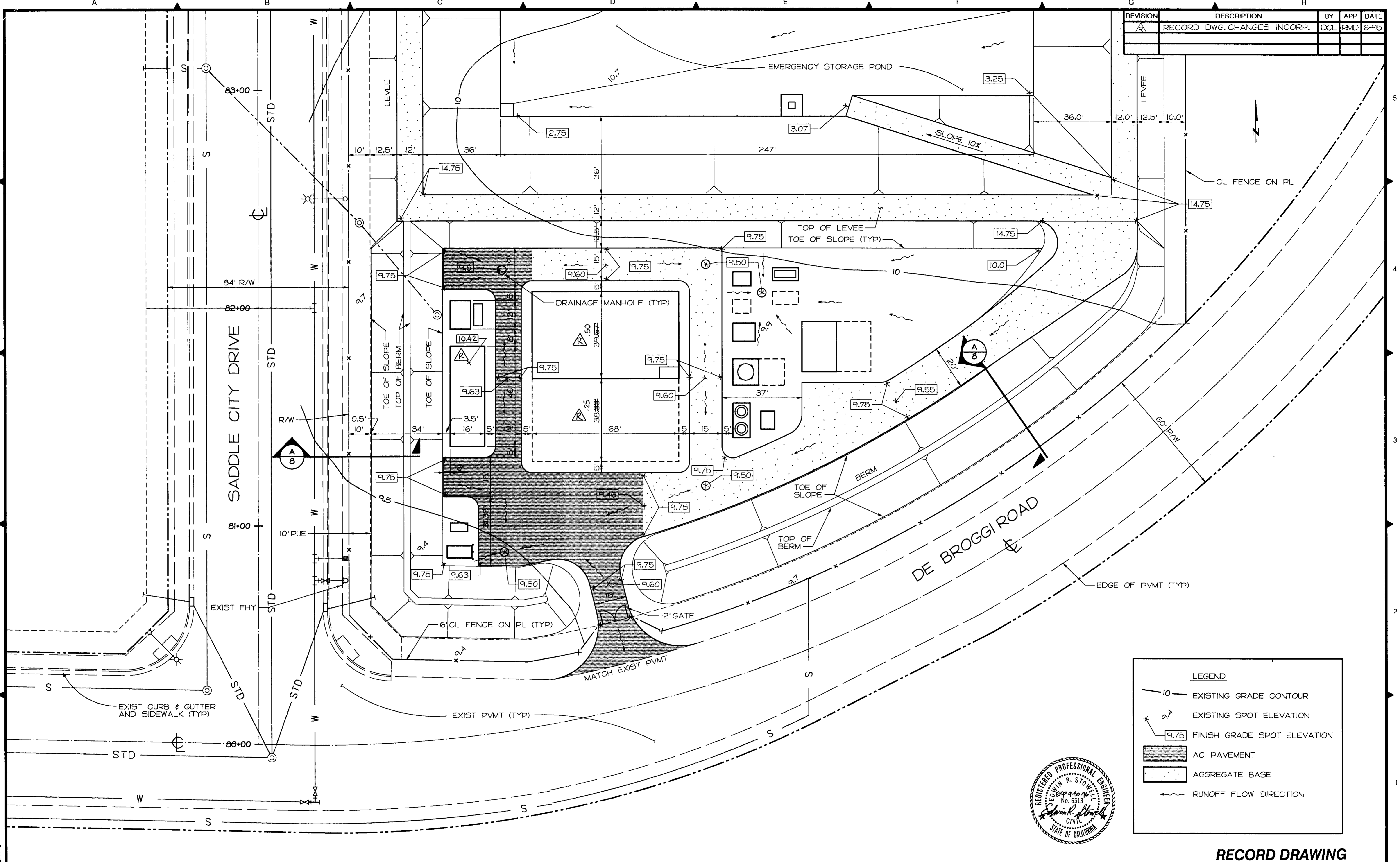
NOTE:
STORM SEWER PIPES ARE SCH 40 PVC
UNLESS OTHERWISE NOTED ON PLAN



SU-2898

SCALE 1" = 20'	DATE AUGUST 1994	DESIGNED ERS	SUBMITTED	DEWANTE AND STOWELL CONSULTING ENGINEERS SACRAMENTO, CALIFORNIA	FLAG CITY SAN JOAQUIN CO., CALIFORNIA WASTEWATER TREATMENT FACILITIES	MAJOR PROCESS PIPING	DRAWING NUMBER	SHEET NUMBER
	FILE 93423	DRAWN MVW	RECOMMENDED					
		CHECKED ERS	APPROVED					

REVISION	DESCRIPTION	BY	APP	DATE
A	RECORD DWG. CHANGES INCORP.	DCL	RMD	6-95



LEGEND	
	EXISTING GRADE CONTOUR
	EXISTING SPOT ELEVATION
	FINISH GRADE SPOT ELEVATION
	AC PAVEMENT
	AGGREGATE BASE
	RUNOFF FLOW DIRECTION

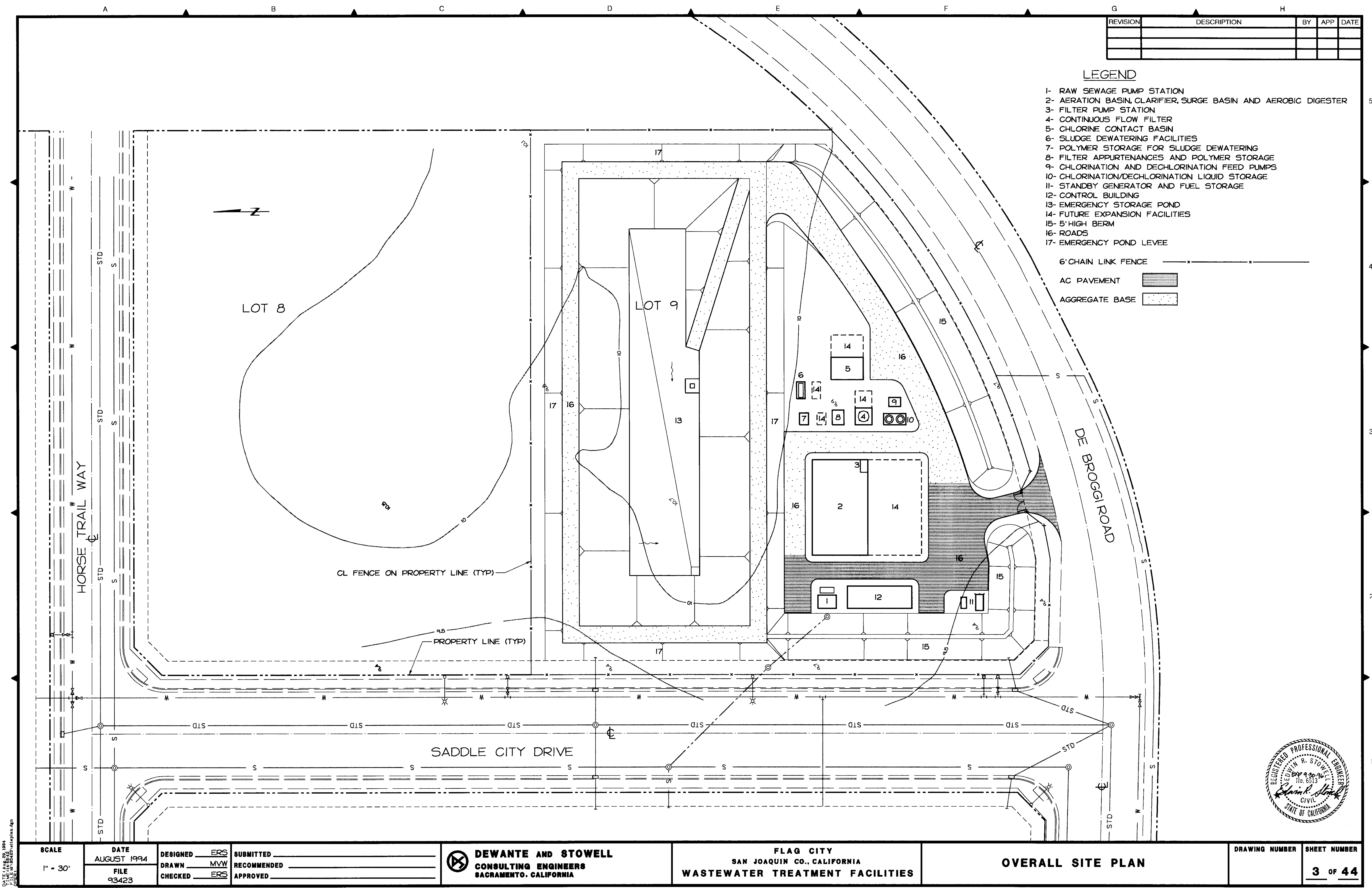


RECORD DRAWING

SU-2899

SCALE 1" = 20'	DATE AUGUST 1994	DESIGNED ERS	SUBMITTED	DEWANTE AND STOWELL CONSULTING ENGINEERS SACRAMENTO, CALIFORNIA	FLAG CITY SAN JOAQUIN CO., CALIFORNIA WASTEWATER TREATMENT FACILITIES	SITE GRADING	DRAWING NUMBER	SHEET NUMBER 4 OF 44
	FILE 93423	DRAWN MVW	RECOMMENDED					
		CHECKED ERS	APPROVED					

SU-2900



REVISION	DESCRIPTION	BY	APP	DATE

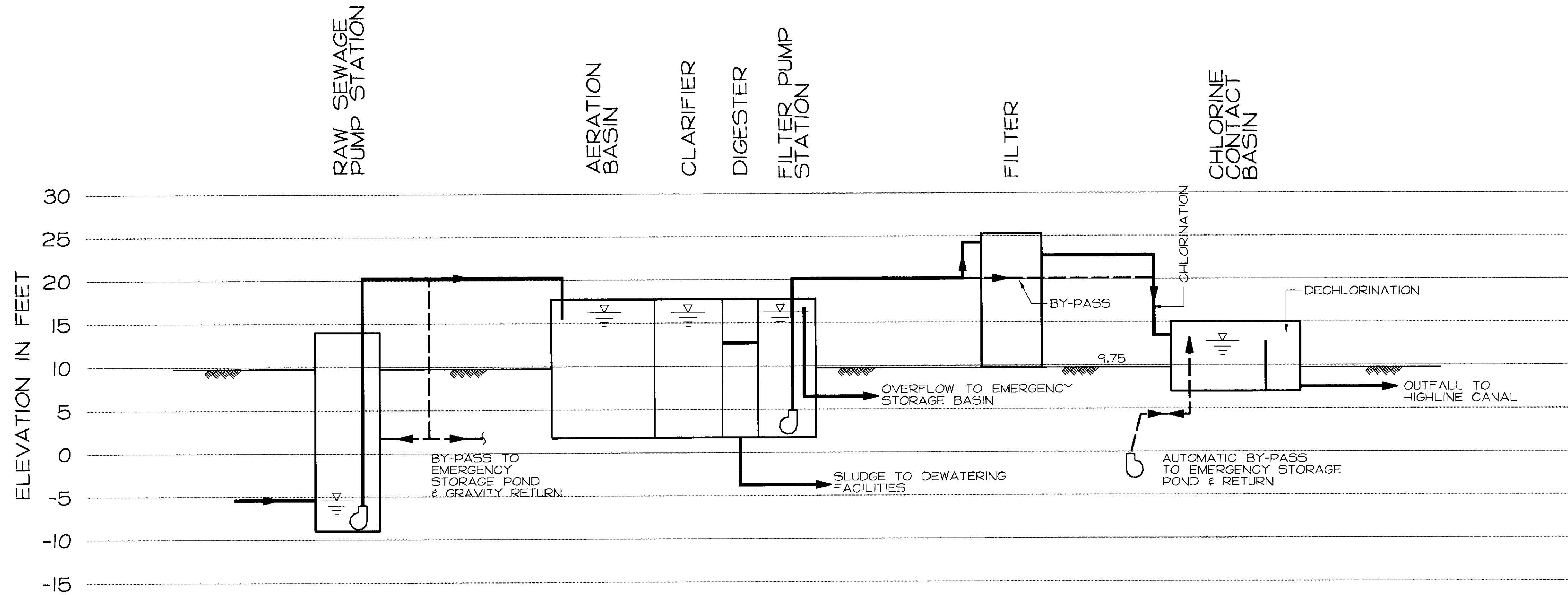
LEGEND

- 1- RAW SEWAGE PUMP STATION
 - 2- AERATION BASIN, CLARIFIER, SURGE BASIN AND AEROBIC DIGESTER
 - 3- FILTER PUMP STATION
 - 4- CONTINUOUS FLOW FILTER
 - 5- CHLORINE CONTACT BASIN
 - 6- SLUDGE DEWATERING FACILITIES
 - 7- POLYMER STORAGE FOR SLUDGE DEWATERING
 - 8- FILTER APPURTENANCES AND POLYMER STORAGE
 - 9- CHLORINATION AND DECHLORINATION FEED PUMPS
 - 10- CHLORINATION/DECHLORINATION LIQUID STORAGE
 - 11- STANDBY GENERATOR AND FUEL STORAGE
 - 12- CONTROL BUILDING
 - 13- EMERGENCY STORAGE POND
 - 14- FUTURE EXPANSION FACILITIES
 - 15- 5'-HIGH BERM
 - 16- ROADS
 - 17- EMERGENCY POND LEVEE
- 6' CHAIN LINK FENCE ——— x ——— x ———
- AC PAVEMENT
- AGGREGATE BASE



<p>SCALE 1" = 30'</p>	<p>DATE AUGUST 1994</p> <p>FILE 93423</p>	<p>DESIGNED <u>ERS</u></p> <p>DRAWN <u>MVW</u></p> <p>CHECKED <u>ERS</u></p>	<p>SUBMITTED _____</p> <p>RECOMMENDED _____</p> <p>APPROVED _____</p>	<p> DEWANTE AND STOWELL CONSULTING ENGINEERS SACRAMENTO, CALIFORNIA</p>	<p>FLAG CITY SAN JOAQUIN CO., CALIFORNIA WASTEWATER TREATMENT FACILITIES</p>	<p>OVERALL SITE PLAN</p>	<p>DRAWING NUMBER _____</p> <p>SHEET NUMBER 3 of 44</p>
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REVISION	DESCRIPTION	BY	APP	DATE



SCHEMATIC FLOW DIAGRAM

DESIGN CRITERIA

DESIGN CONDITION

FLOW, AWWF, MGD	.16
FLOW, PWWF, MGD	.64
BOD5, mg/l	250
BOD5, lbs/day	334
SS, TOTAL, mg/l	250
AMMONIA-N, mg/l	25

UNIT LOADING, DESIGN PARAMETERS

AERATION TANK CAPACITY, MG	.120
AERATION RETENTION TIME, ADWF, hours	18
CLARIFIER OVERFLOW RATE, ADWF, GPD/sq.ft.	500
SLUDGE AGE, Dcys	19
DIGESTER, % OF AERATION TANK	22
DIGESTER-MAXIMUM MLSS, mg/l	15000
DIGESTER-SOLIDS AT WASTE, %	2.00%
OXYGEN TRANSFER RATE, %	5.00%
MIXED LIQUOR SUSPENDED SOLIDS, mg/l	2973
MIXED LIQUOR VOLATILE SUSPENDED SOLIDS, %	61.7
F/M RATIO, LBS. BOD5/LB MLVSS	0.20
F/M RATIO, LBS. BOD5/LB MLSS	0.13
ORGANIC LOADING, lbs BOD5/1000 of day	20.7
OXYGEN REQUIREMENTS, (Carbonaceous), mg/l hr.	16.46
OXYGEN REQUIREMENTS, (Nitrogenous), mg/l hr.	6.90
AIR REQUIRED, cfm (Carbonaceous)	261
AIR REQUIRED, cfm (Nitrogenous)	109
AIR REQUIRED, Total cfm	370
AIR REQUIRED IN AERATION TANK, cf/lb of BOD5/day	1599
MIXED LIQUOR WASTED PER DAY, lbs/day	160
MIXED LIQUOR WASTED PER DAY, gallons/day	6400
DIGESTER SLUDGE AGE, days	21
VOLATILE SOLIDS REDUCTION IN DIGESTER, %	31
SOLIDS WASTED FROM DIGESTER, lbs/day	130
VOLUME WASTED FROM DIGESTER, gallons/day	780
AIR REQUIRED FOR DIGESTION, cfm	164
TOTAL PLANT AIR REQUIRED, cfm	534

FILTER DATA

SURFACE AREA, sq.ft.	38
FILTER RATE AT ADWF, gal/sq.ft./min.	2.9
REJECT WATER, % of flow	3
AIR REQUIREMENT, SCFM @ 15-25 psig	2-3
DEPTH OF SAND, Inches	40

EXPECTED OVERALL PLANT RESULTS (EFFLUENT)

BOD5, MG/L	<10
TOTAL SUSPENDED SOLIDS, MG/L	<10
NITRATES as (N)	<10
COLIFORM, MPN/100 ML	<2.2
AMMONIA (N) MG/L	<3



DATE: AUG 20, 1994
FILE: SA08223a.schem11c.dgn

CONTRACT DRAWINGS FOR FLAG CITY WASTEWATER TREATMENT FACILITIES AUGUST 1994

Submitted: Edwin R. Stowell

REVISION	DESCRIPTION	BY	APP	DATE
1	RECORD DWG. CHANGES INCORP.	DCL	RMD	6-95

RECORD DRAWING NOTES

- CONTRACTOR: AUBURN CONSTRUCTORS
730 WEST STADIUM LANE
SACRAMENTO, CA 95834-1130
- BID DATE: 9-27-94
STARTING DATE: 10-5-94
COMPLETION DATE: 6-14-95
ORIGINAL CONTRACT: \$ 1,080,000
CHANGE ORDERS: \$ 48,345.70
FINAL CONTRACT: \$ 1,128,345.70
- SYMBOL DESIGNATEDS "RECORD DRAWING" REVISIONS
- THESE DRAWINGS INCORPORATE CHANGES TO THE ORIGINAL CONTRACT DRAWINGS THAT WERE NOTED DURING CONSTRUCTION BY THE CONTRACTOR AND CONSTRUCTION INSPECTORS. THE INFORMATION REPORTED IS CORRECT AS FAR AS IS KNOWN. BUT NO FIELD VERIFICATION HAS BEEN MADE AS TO THE COMPLETENESS OR ACCURACY OF THE INFORMATION.

INDEX TO SHEETS

SYMBOLS

	GATE VALVE, BALL VALVE, GLOBE VALVE
	CHECK VALVE OR BACKWATER VALVE
	BUTTERFLY VALVE
	UNION
	REDUCER
	PRESSURE GAUGE OR SWITCH
	HOSE VALVE
	FLANGED FITTING
	FLANGED COUPLING ADAPTER
	FLEXIBLE COUPLING
	LIGHT POLE
	NEW FENCE
	EXISTING MANHOLE
	NEW MANHOLE
	GUY WIRE WITH ANCHOR
	NEW FACILITIES
	FUTURE FACILITIES
	NEW PIPELINE
	EXISTING PIPELINE
	POWER POLE
	RAILROAD
	EXISTING FACILITIES
	TREE
	UNDERGROUND UTILITIES

ABBREVIATIONS

A	AERATION AIR	HV	HOSE VALVE
AB	ANCHOR BOLT	HW	HOT WATER
ABC	ABOVE CEILING	IE	INVERT ELEVATION
AL	ALUMINUM	LR	LONG RADIUS
ASSY	ASSEMBLY	MFR	MANUFACTURER
BF	BLIND FLANGE	NH	MAN-HOLE
BRKT	BRACKET	MJ	MECHANICAL JOINT
BSP	BLACK STEEL PIPE	OC	ON CENTER
BUV	BUTTERFLY VALVE	OF	OVERFLOW
BWV	BACKWATER VALVE	PCV	PLASTIC CHECK VALVE
C&G	CURB AND GUTTER	PBV	PLASTIC BALL VALVE
CL	CHAIN LINK OR CENTERLINE	PG	PRESSURE GAUGE
CLR	CLEAR	PL	PROPERTY LINE
CMU	CONCRETE MASONRY UNIT	PMF	PREMOLDED FILLER
CONC	CONCRETE	PRFV	PRESSURE RELIEF VALVE
COND	CONDUIT	PSO	POLYMER SOLUTION
CONN	CONNECTION	PT	PLASTIC TUBING
CPLG	COUPLING	R/W	RIGHT OF WAY
CJ	COPPER	RWD	REDWOOD
CV	CHECK VALVE	RWG	RESILIENT WEDGE GATE VALVE
CW	COLD WATER	S	SEWER
D	DRAIN	SAN	SANITARY
DIP	DUCTILE IRON PIPE	SCH	SCHEDULE
ECC	ECCENTRIC	SCV	SPLIT DISC CHECK VALVE
EF	EACH FACE	SH	SHEET
ELB	ELBOW	SL	SLUDGE
EL	ELEVATION	SOB	SODIUM BISULFITE
EW	EACH WAY	SOH	SODIUM HYPOCHLORITE
FC	FLEXIBLE COUPLING	STD	STORM DRAIN
FCA	FLANGED COUPLING ADAPTOR	SST	STAINLESS STEEL
FCO	FLOOR CLEANOUT	STL	STEEL
FE	FINAL EFFLUENT	TP	TOILET PAPER
FEF	FILTERED EFFLUENT	TYP	TYPICAL
FF	FILTER INFLUENT	VB	VALVE BOX
FG	FINISHED GRADE	VTR	VENT THROUGH ROOF
F/G	FIBERGLASS	W	WATER
FHY	FIRE HYDRANT	WF	WIDE FLANGE
FLEX	FLEXIBLE	WP	POTABLE WATER
FLG	FLANGE		
FRP	FIBERGLASS REINFORCED PIPE		
GAF	GALVANIZE AFTER FABRICATION		
GS	GALVANIZED STEEL		
GTV	GATE VALVE		
GYP	GYP-SUM		
HT	HEIGHT		

SHEET NO.	TITLE	SHEET NO.	TITLE
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2	SCHEMATIC FLOW DIAGRAM AND DESIGN CRITERIA	25	TYPICAL DETAILS III
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4	SITE GRADING	27	AERATION BASIN, CLARIFIER, SURGE BASIN AND AEROBIC DIGESTER SECTIONS
5	MAJOR PROCESS PIPING	28	AERATION BASIN, CLARIFIER, SURGE BASIN AND AEROBIC DIGESTER SECTIONS
6	ENLARGED PIPING PLAN	29	RAW SEWAGE PUMP STATION STRUCTURAL PLAN & SECTION
7	EMERGENCY STORAGE POND PLAN & SECTIONS	30	CONTROL BUILDING STRUCTURAL PLANS AND SECTIONS
8	PAVING, DRAINAGE AND UTILITIES DETAILS	31	ELECTRICAL & INSTRUMENTATION SYMBOLS
9	CONTROL BUILDING FLOOR AND PLUMBING PLANS & DETAILS	32	ELECTRICAL & INSTRUMENTATION ABBREVIATIONS
10	CONTROL BUILDING ELEVATIONS AND SCHEDULES	33	MISCELLANEOUS DETAILS
11	RAW SEWAGE PUMP STATION MECHANICAL PLAN & SECTION	34	ELECTRICAL SITE PLAN
12	AERATION BASIN, CLARIFIER, SURGE BASIN AND AEROBIC DIGESTER MECHANICAL PLAN & SECTIONS	35	CONTROL BUILDING LIGHTING & POWER PLAN
13	MISCELLANEOUS DETAILS I	36	RAW SEWAGE PUMP STATION PLAN
14	MISCELLANEOUS DETAILS II	37	AERATION BASIN AREA PLAN
15	MISCELLANEOUS DETAILS III	38	SLUDGE POLYMER STORAGE/CHLORINATION BUILDING
16	SLUDGE DEWATERING AND SCREENING PLANS & SECTIONS	39	EFFLUENT POLYMER STORAGE & PANEL "AM" WIRING SCHEMATICS
17	SAND FILTER & POLYMER/COMPRESSOR BUILDING PLANS & SECTIONS	39A	PANELBOARD SCHEDULES
18	CHEMICAL STORAGE TANKS PLAN & SECTION	40	EMERGENCY STORAGE RETURN PUMP CONTROL PANEL "ESRP"
19	CHEMICAL FEED STRUCTURES PLANS, SECTIONS & DETAILS	41	SINGLE LINE DIAGRAM
20	CHLORINE CONTACT BASIN PLAN & ELEVATION	42	MAIN SWITCHBOARD "MS" & PANEL ELEVATIONS
21	EMERGENCY STANDBY GENERATOR FUEL STORAGE TANK AND MISC DETAILS	43	RAW SEWAGE PUMPS CONTROL PANEL "RSP"
22	TYPICAL STRUCTURAL NOTES	44	FILTER FEED & FINAL EFFLUENT PUMPS CONTROL PANEL "FFP"
23	TYPICAL NOTES & DETAILS I		

SY-2902 SET B

APPROVED BY THE SAN JOAQUIN COUNTY PUBLIC HEALTH SERVICES ENVIRONMENTAL SERVICE DIVISION		COUNTY OF SAN JOAQUIN DEPARTMENT OF PUBLIC WORKS	
DATE: <u>Aug 29 1994</u>	DESIGNED: <u>ERS</u>	APPROVED: <u>Henry M. Hirata</u>	DATE: <u>9/2/94</u>
FILE: <u>93423</u>	DRAWN: <u>MVW</u>	HENRY M. HIRATA	R.C.E. NO. <u>21258</u>
	CHECKED: <u>ERS</u>	DIRECTOR OF PUBLIC WORKS	EXP. DATE: <u>09/30/97</u>

DEWANTE AND STOWELL
CONSULTING ENGINEERS
SACRAMENTO, CALIFORNIA

FLAG CITY
SAN JOAQUIN CO., CALIFORNIA
WASTEWATER TREATMENT FACILITIES

RECORD DRAWING

TITLE SHEET, ABBREVIATIONS AND INDEX TO DRAWINGS

DRAWING NUMBER: _____ SHEET NUMBER: **1 OF 44**

