

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	15	177.3/181.1	701	710

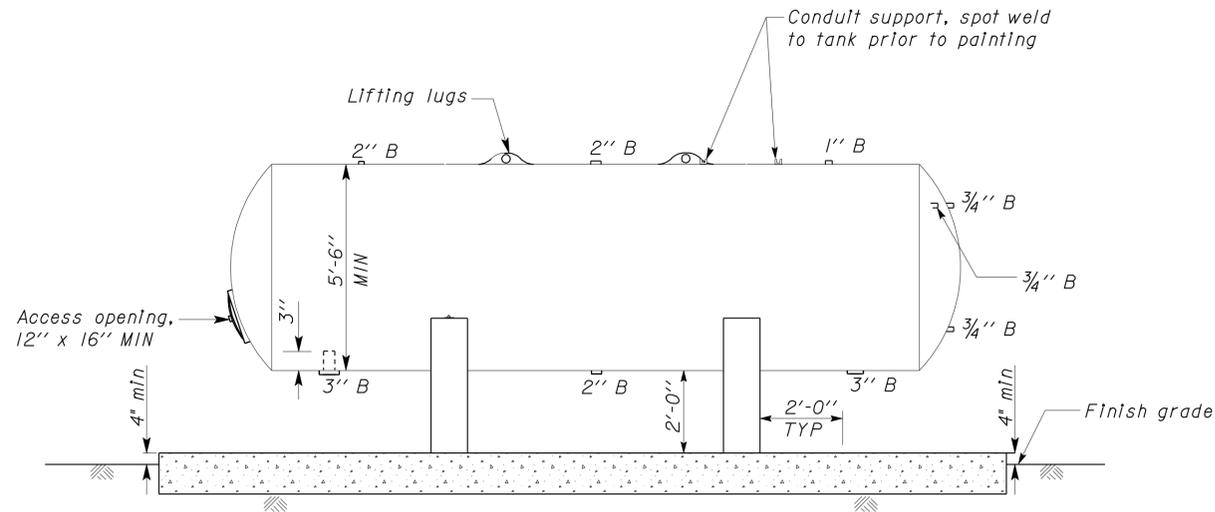
Jerome R. Marcotte
REGISTERED CIVIL ENGINEER
DATE 11/30/12



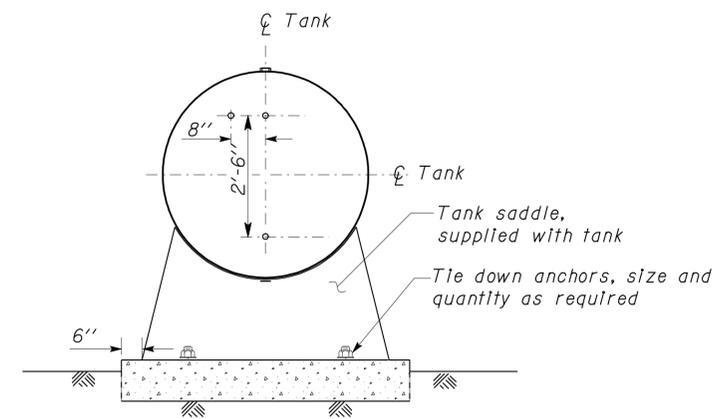
2-25-13
PLANS APPROVAL DATE

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Approval date: 01-20-2011

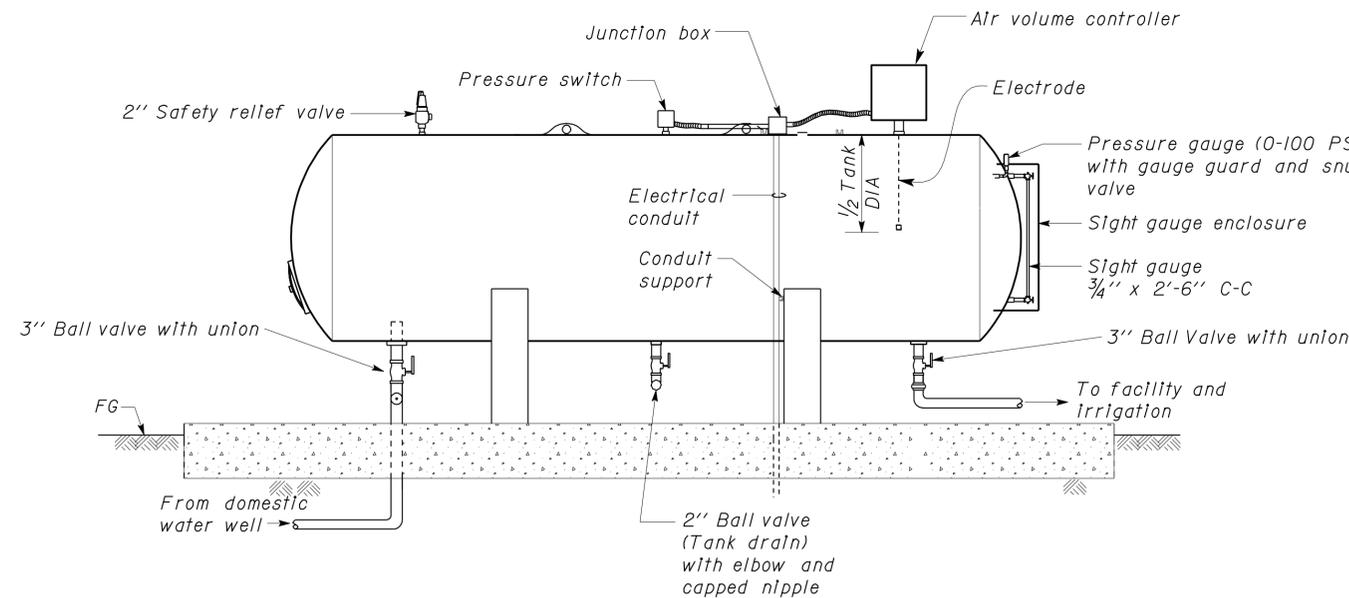


LONGITUDINAL SECTION

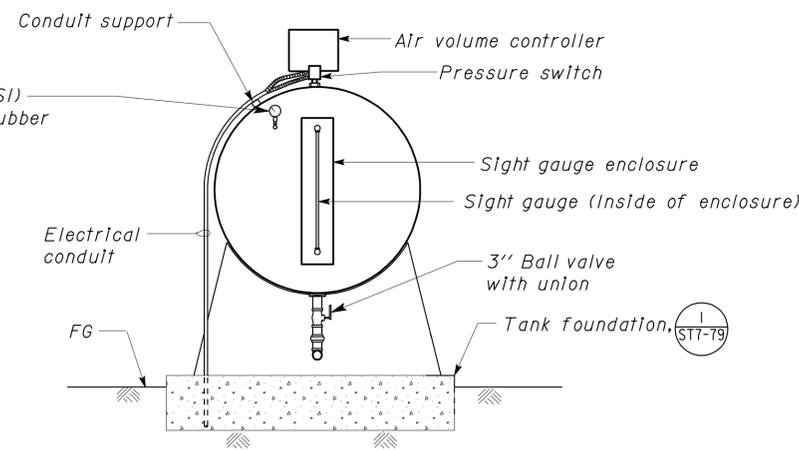


TRANSVERSE SECTION

B TANK SUPPORT AND SHELL SECTION
NO SCALE



SIDE VIEW



END VIEW

A 2500 GALLON (NOMINAL) PRESSURE TANK
NO SCALE

Notes:

1. Heat tape shall be installed on all exposed water piping at pressure tank.
2. Sleeve all penetrations in concrete.
3. All tank openings shall be 1/2" bungs unless otherwise noted.
4. Tank shall be painted semi-gloss off-white.

DESIGN	BY Laurie Vasquez	CHECKED Don Hansen
DETAILS	BY Laurie Vasquez	CHECKED Don Hansen
QUANTITIES	BY Laurie Vasquez	CHECKED Don Hansen

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE NO.	54-1216J
POST MILE	87.1/87.5

MOUNTAIN PASS JPOE
HORIZONTAL WATER PRESSURE TANK DETAILS

SHEET **W7-4**

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Sbd	15	177.3/181.1	702	710

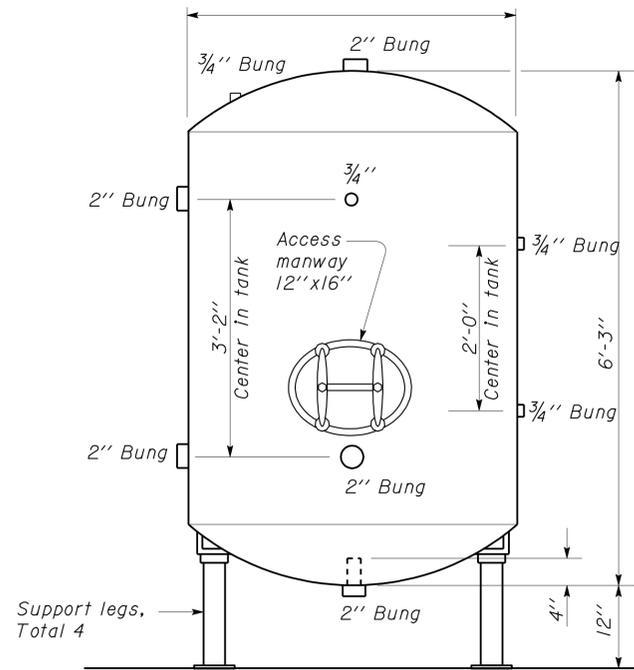
Jerome R. Marcotte
 REGISTERED CIVIL ENGINEER
 DATE 11/30/12



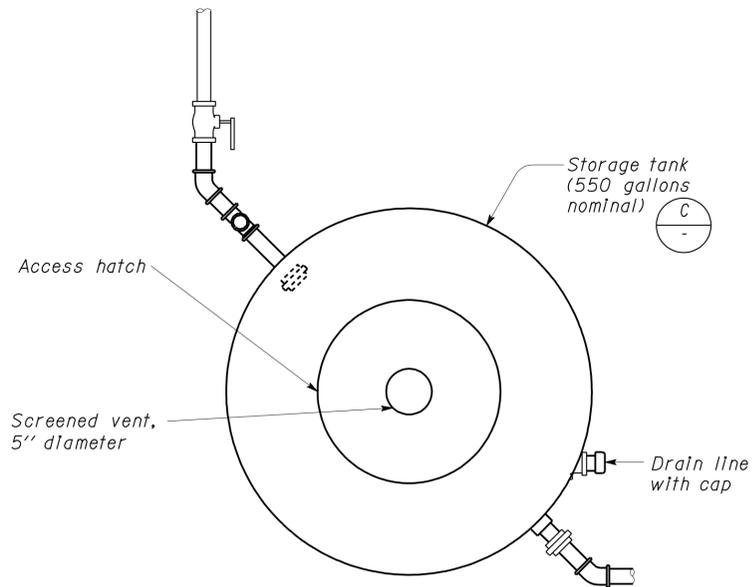
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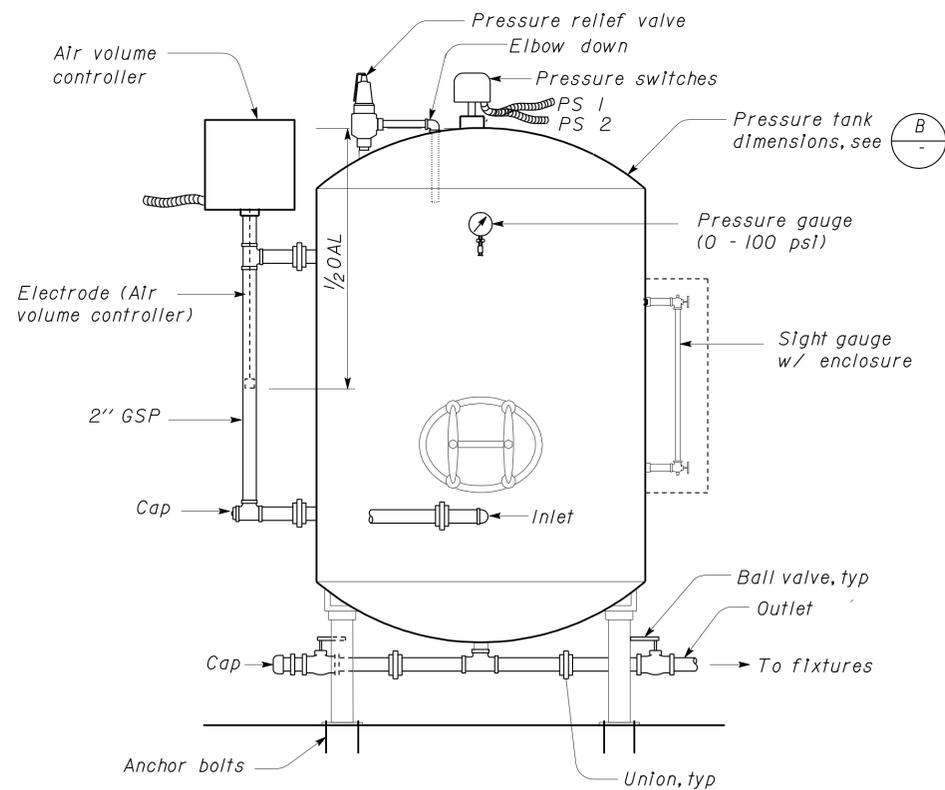
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 G. ANDERSEN
 Approval date: 01-20-2011



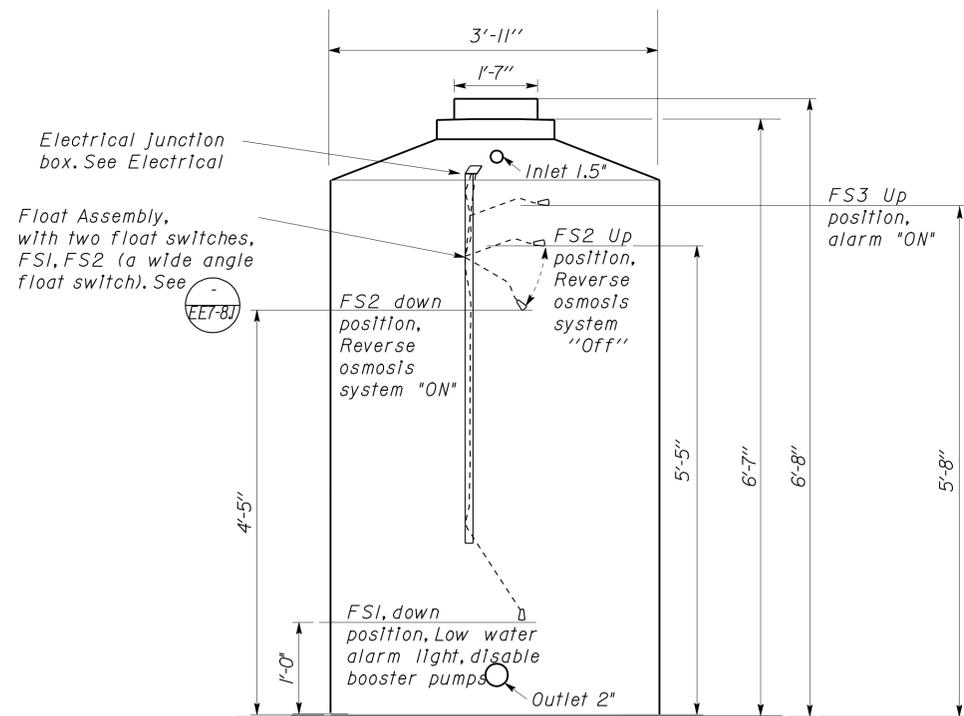
B SIDE ELEVATION



PLAN



A 300 GALLON PRESSURE TANK
NO SCALE



ELEVATION

C 550 GALLON VERTICAL STORAGE TANK
NO SCALE

Notes:

1. Pipe and equipment skewed for clarity. See Floor Plan for proper orientation.
2. Tank shall be painted semi-gloss off-white.

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DETAILS	BY Laurie Vasquez	CHECKED Don Hansen
QUANTITIES	BY Laurie Vasquez	CHECKED Don Hansen

STATE OF CALIFORNIA
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DIVISION OF ENGINEERING SERVICES
 ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE NO.	54-1216J
POST MILE	87.1/87.5

MOUNTAIN PASS JOE
 VERTICAL PRESSURE TANK, STORAGE TANK AND DETAILS

SHEET W7-5

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Sbd	15	177.3/181.1	703	710

Jerome R. Marcotte
REGISTERED CIVIL ENGINEER
DATE 11/30/12



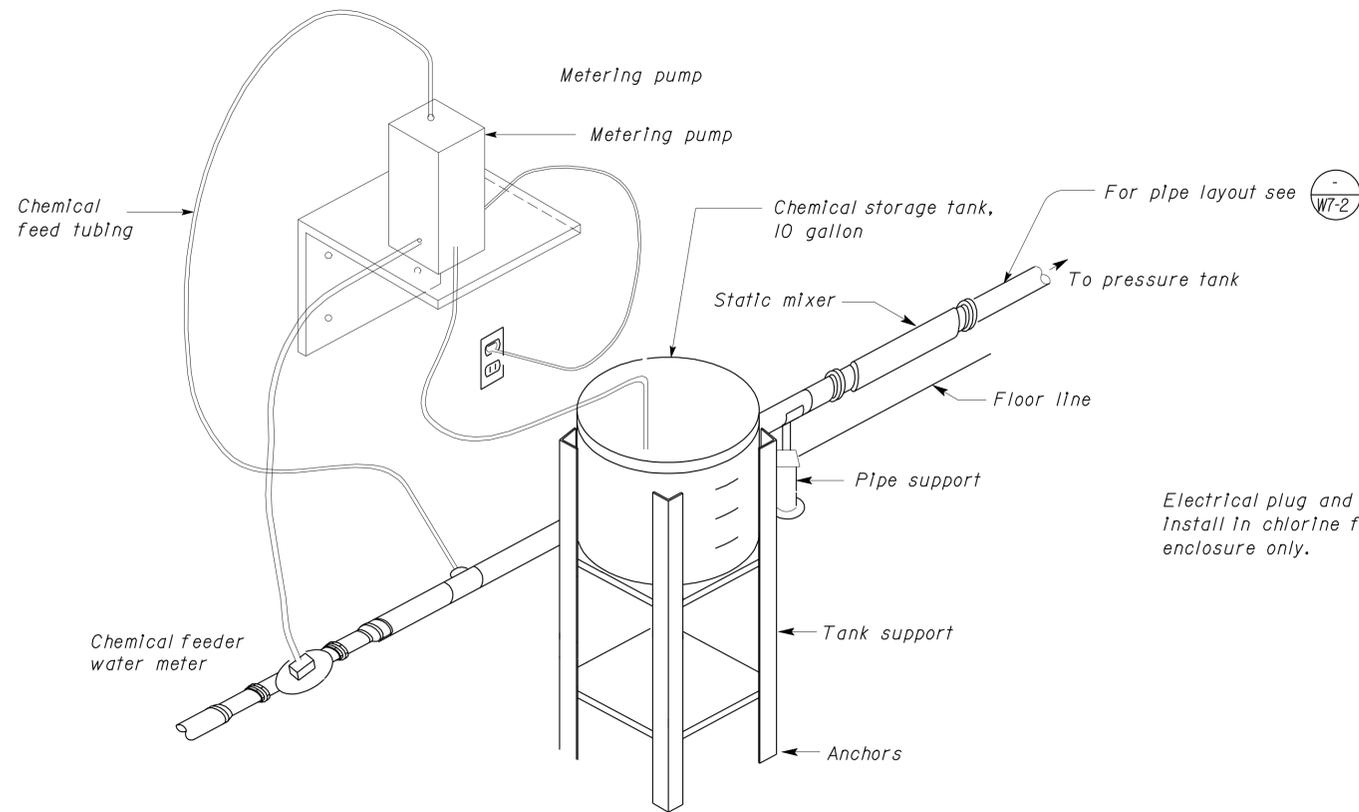
2-25-13
PLANS APPROVAL DATE

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CALIFORNIA STATE FIRE MARSHAL
APPROVED

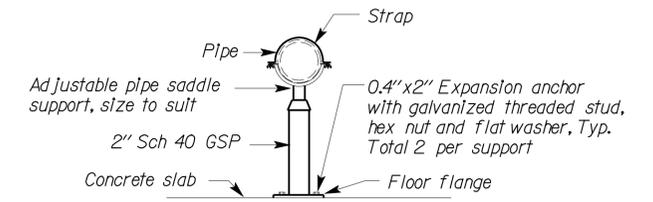
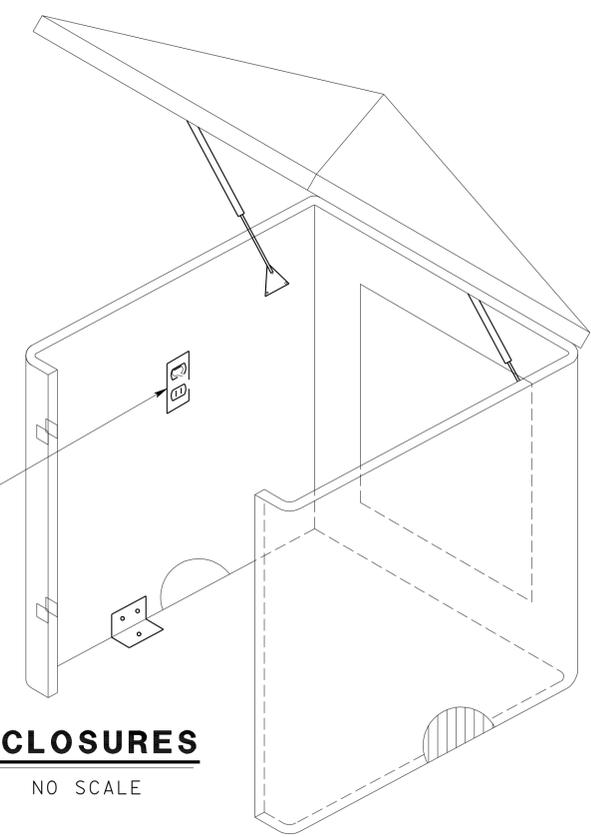
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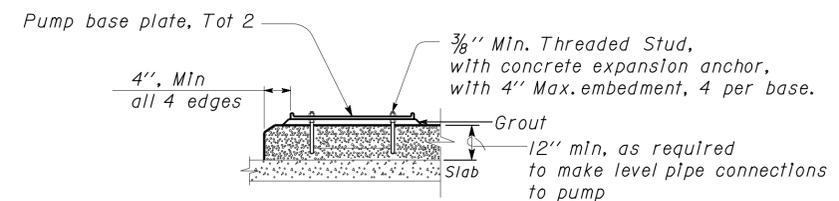


C CHEMICAL FEED EQUIPMENT

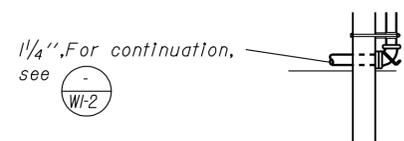
D ENCLOSURES
NO SCALE



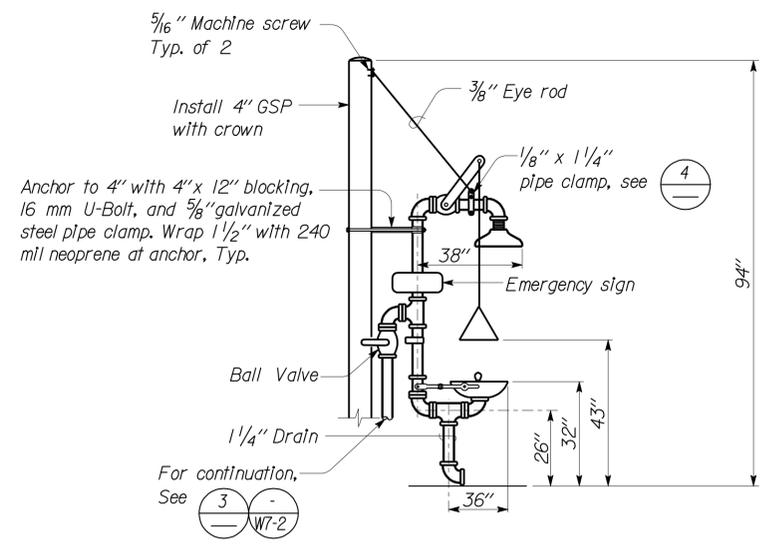
2 PIPE SUPPORT
NO SCALE



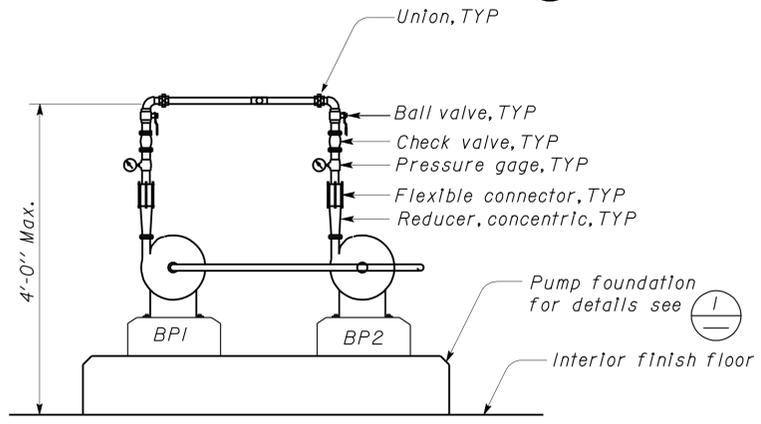
1 PUMP FOUNDATION
NO SCALE



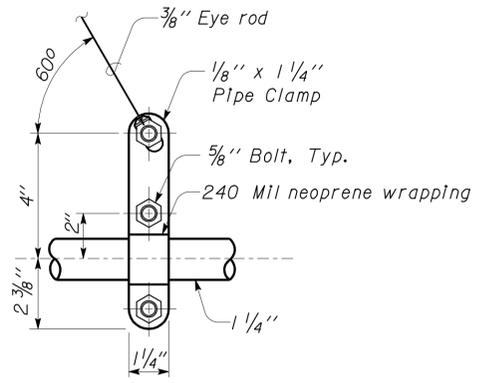
3 PIPE WALL PENETRATION AND SUPPORT DETAIL



B EMERGENCY EYEWASH AND SHOWER ELEVATION DETAIL
(DISABLED ACCESSIBLE)



A BOOSTER PUMP ELEVATION
NO SCALE



4 PIPE SUPPORT DETAIL

DESIGN	BY Laurie Vasquez	CHECKED Don Hansen
DETAILS	BY Laurie Vasquez	CHECKED Don Hansen
QUANTITIES	BY Laurie Vasquez	CHECKED Don Hansen

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE NO.	54-1216J
POST MILE	87.1/87.5

MOUNTAIN PASS JOE
PUMPS, CHLORINATION EQUIPMENT AND DETAILS

SHEET **W7-6**

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Sbd	15	177.3/181.1	704	710

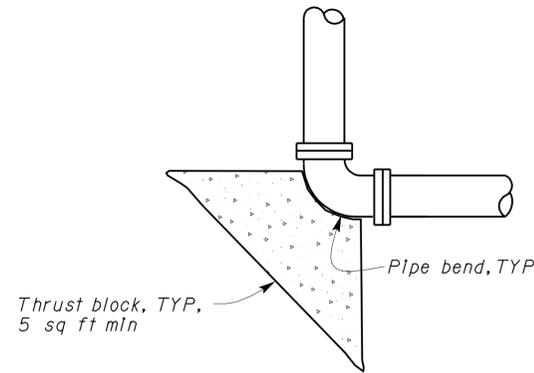
Jerome R. Marcotte
REGISTERED CIVIL ENGINEER
DATE 11/30/12



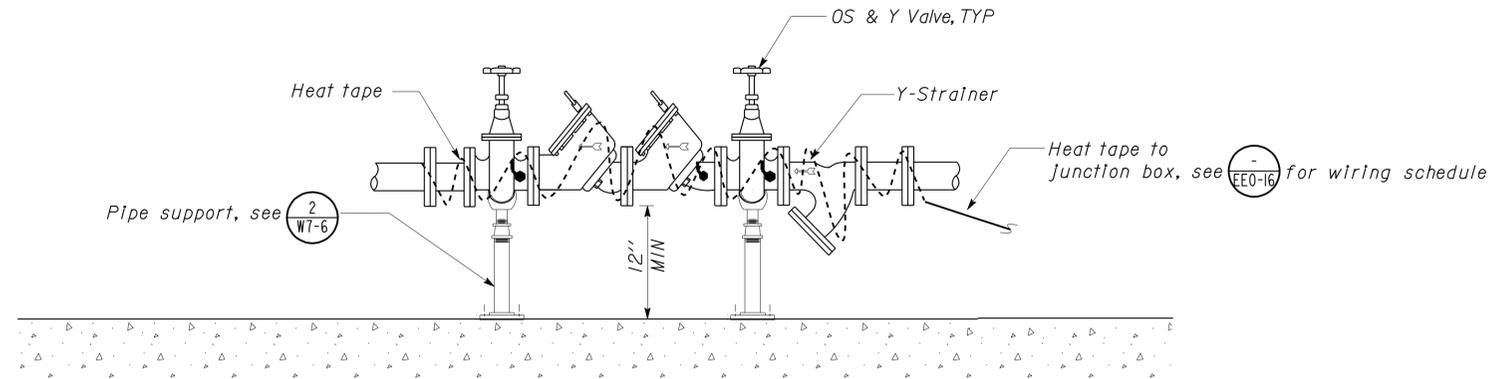
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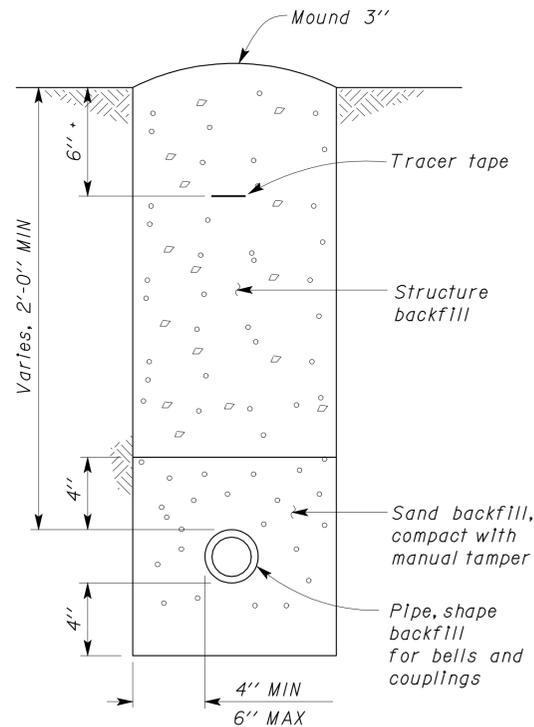
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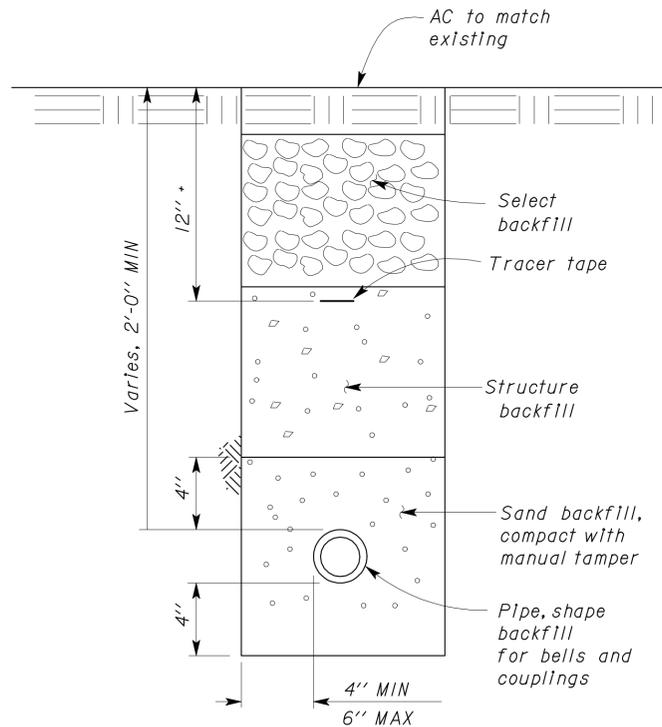
2 THRUST BLOCK
NO SCALE



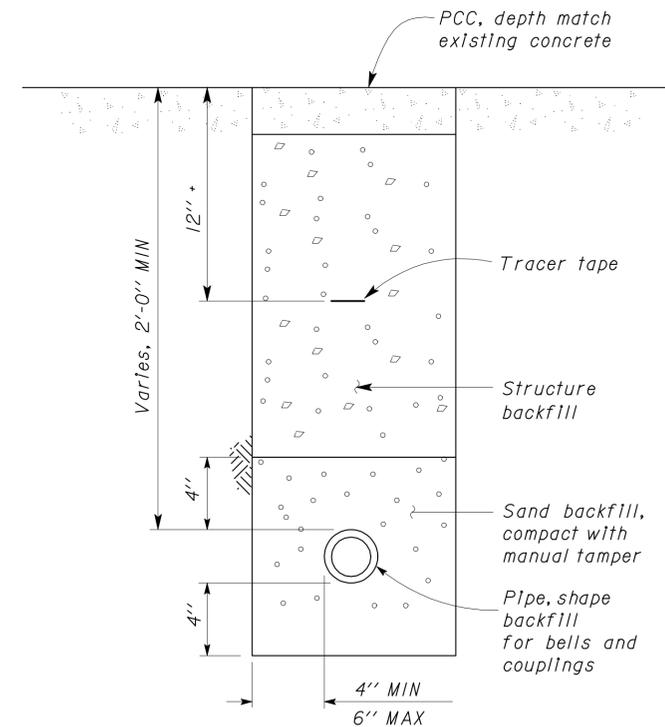
3 BACKFLOW PREVENTER ASSEMBLY
NO SCALE



SECTION-TRENCH MOUND
NO SCALE



SECTION-TRENCH, AC
NO SCALE



SECTION-TRENCH, PCC
NO SCALE

1 WATER PIPE
NO SCALE

DESIGN	BY Laurie Vasquez	CHECKED Don Hansen
DETAILS	BY Laurie Vasquez	CHECKED Don Hansen
QUANTITIES	BY Laurie Vasquez	CHECKED Don Hansen

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE NO.	54-1216J
POST MILE	87.1/87.5

MOUNTAIN PASS JOE
WATER PIPE AND WATER SYSTEM DETAILS

SHEET W7-7

ABBREVIATIONS

AB	AGGREGATE BASE	IN	INCH
AC	ASPHALT CONCRETE	JB	JUNCTION BOX
B	BUNG	KW	KILOWATT
BLDG	BUILDING	LB	POUND
C	CONDUIT	LT	LEFT
C-C	CENTER TO CENTER	MAX	MAXIMUM
CFS	CUBIC FEET PER SECOND	MBV	MOTORIZED BALL VALVE
CI	CAST IRON	MH	MANHOLE
CL	CHAIN LINK	MIN	MINIMUM
CMP	CORRUGATED METAL PIPE	N	NORTH
CONC	CONCRETE	NB	NORTHBOUND
COTF	CLEANOUT TO FLOOR	NIC	NOT IN CONTRACT
COTG	CLEANOUT TO GRADE	NO	NUMBER
CPLG	COUPLING	OC	ON CENTER
CW	COLD WATER PIPE	OD	OUTSIDE DIAMETER
D	DRAIN	OG	ORIGINAL GROUND
DI	DRAIN INLET	P	PITCH
DIA	DIAMETER	PCC	PORTLAND CEMENT CONCRETE
DP	DRAIN PIPE	PH	PHASE
E	ELECTRICAL	PRV	PRESSURE REDUCING VALVE
(E)	EXISTING	PVC	POLYVINYL CHLORIDE
EA	EACH	R	RADIUS
EL	ELEVATION	RCP	REINFORCED CONCRETE PIPE
EP	EDGE OF PAVEMENT	REQ	REQUIRED
EQ	EQUAL	rpm	REVOLUTIONS PER MINUTE
FOB	FACE OF BUILDING	RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
FF	FINISH FLOOR	RPU	RECYCLE PROCESS UNIT
FG	FINISH GRADE	RT	RIGHT
FL	FLOW LINE	RW	RIGHT-OF-WAY
FM	FORCE MAIN	R/W	RAW WATER
FOC	FACE OF CONCRETE	S	SLOPE
FS	FLOW SWITCH	SB	SOUTHBOUND
FT	FEET	SCH	SCHEDULE
FTR	FLUE THROUGH ROOF	SD	STORM DRAIN
GA	GAUGE	SP	SEWAGE PIPE
GAC	GRANULAR ACTIVATED CARBON	SQ	SQUARE
GAL	GALLON	STA	STATION
GPM	GALLONS PER MINUTE	STD	STANDARD
GALV	GALVANIZED	TBM	TEMPORARY BENCH MARK
GSP	GALVANIZED STEEL PIPE	TOC	TOP OF CONCRETE
GV	GATE VALVE	TOT	TOTAL
GS	GOVERNMENT SERVICE LINE	TYP	TYPICAL
H	HEIGHT	VAC	VOLTS AC
HP	HOSE FAUCET	VCP	VITRIFIED CLAY PIPE
HF	HORSEPOWER	W	WATER
HZ	HERTZ	W/O	WITHOUT
ID	INSIDE DIAMETER	WP	WATER PIPE
IE	INVERT ELEVATION (IN FEET)	WSP	WELDED STEEL PIPE

LEGEND

	FENCE		DETAIL SHEET NUMBER
	SURFACE DRAINAGE	99.00	NEW GRADE IN FEET
	ABANDON	X (100.00)	EXISTING SPOT GRADE IN FEET
	SANITARY SEWER		SURFACE DRAINAGE
	DRAIN		ABANDON
	RETURN DRAIN		BENCHMARK ELEVATION
	VENT		CENTERLINE
	WATER		DIAMETER
	FORCE MAIN		SECTION / ELEVATION LETTER SHEET NUMBER
	LEACH LINES		TREE
	DIRECTION OF TRAFFIC		

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	15	177.3/181.1	705	710

Jerome R. Marcotte 11-30-12
 REGISTERED CIVIL ENGINEER DATE



2-25-13
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 G. ANDERSEN
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PIPE FITTINGS AND VALVES

	CAP
	ELBOW, TURNED DOWN
	FLEXIBLE CONNECTOR
	REDUCER, CONCENTRIC
	REDUCER, ECCENTRIC
	PRESSURE GAUGE (WITH VALVE AND SNUBBER)
	UNION
	UNION, INSULATING
	VALVE, BALL
	VALVE, CHECK
	VALVE, GATE
	VALVE, SAFETY RELIEF
	VALVE, PRESSURE REDUCING
	HOSE FAUCET

GENERAL WORK NOTES

The Contractor shall verify all controlling field dimensions and conditions before ordering or fabricating any materials.
 The Contractor shall verify exact location of all underground facilities and utilities prior to start of construction.
 No 90 degree bends allowed on drain or sewer pipe. Where 90 degree bends are shown, use two 45 degree bends

DESIGN	BY Laurie Vasquez	CHECKED Don Hansen
DETAILS	BY Laurie Vasquez	CHECKED Don Hansen
QUANTITIES	BY Laurie Vasquez	CHECKED Don Hansen

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE NO.	54-1216J
POST MILE	87.1/87.5

MOUNTAIN PASS JOE

NOTES, LEGENDS & ABBREVIATIONS

SHEET 550-0

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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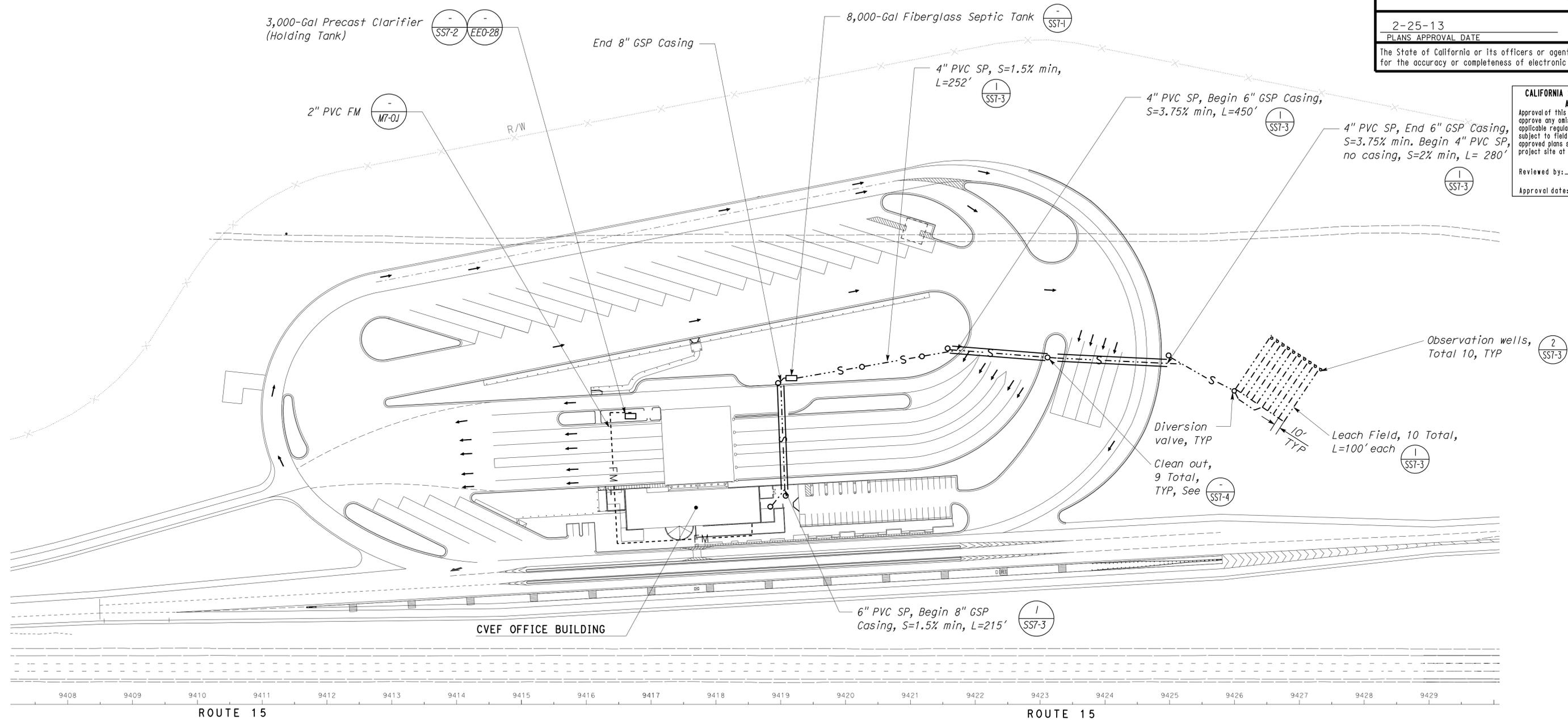
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SITE PLAN 1

SCALE 1" = 80'-0"



Paul Schreff
DESIGN SUPERVISOR
Jerome R. Marcotte
DESIGN ENGINEER

DESIGN BY Laurie Vasquez
CHECKED Don Hansen
DETAILS BY Laurie Vasquez
CHECKED Don Hansen
QUANTITIES BY Laurie Vasquez
CHECKED Don Hansen

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE NO. 54-1216J
POST MILE 87.1/87.5

MOUNTAIN PASS JOE
CVEF SEWER SYSTEM SITE PLAN

SHEET **SS0-1**

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08	SBd	15	177.3/181.1	707	710

Jerome R. Marcotte
REGISTERED CIVIL ENGINEER

11-30-12
DATE



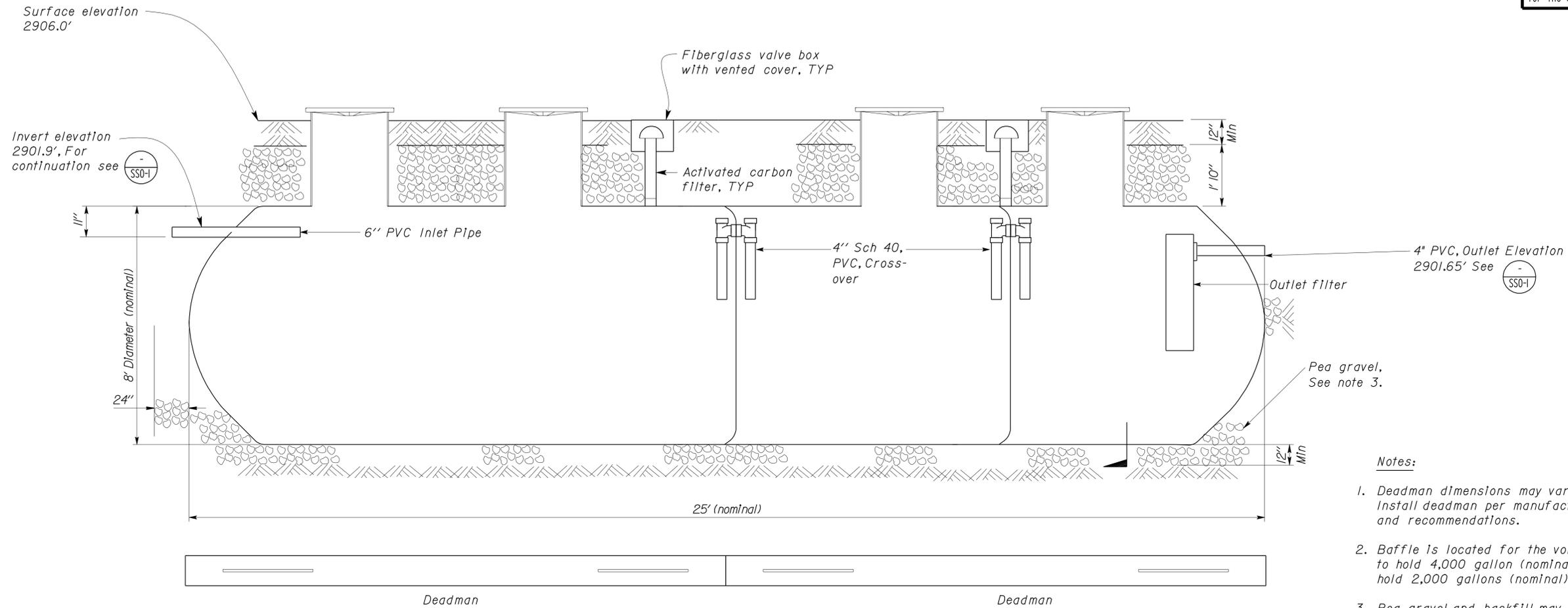
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Notes:

1. Deadman dimensions may vary by manufacturer. Install deadman per manufacturer's specifications and recommendations.
2. Baffle is located for the volume in the first compartment to hold 4,000 gallon (nominal), second and third compartments hold 2,000 gallons (nominal)
3. Pea gravel and backfill may vary based on soil type and manufacturer's requirements.
4. Anchors and tie downs according to manufacture's requirements.

8,000 GALLON FIBERGLASS SEPTIC TANK

NO SCALE

DESIGN	BY Laurie Vasquez	CHECKED Don Hansen
DETAILS	BY Laurie Vasquez	CHECKED Don Hansen
QUANTITIES	BY Laurie Vasquez	CHECKED Don Hansen

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE NO.	54-1216J
POST MILE	87.1/87.5

MOUNTAIN PASS JOE

CVEF SEPTIC TANK

SHEET SS7-1

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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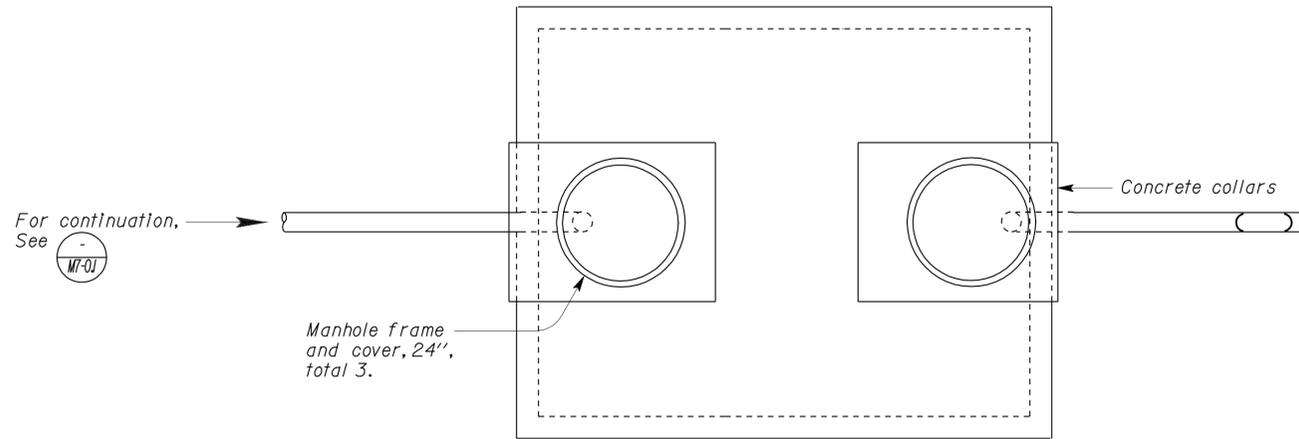
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DATE



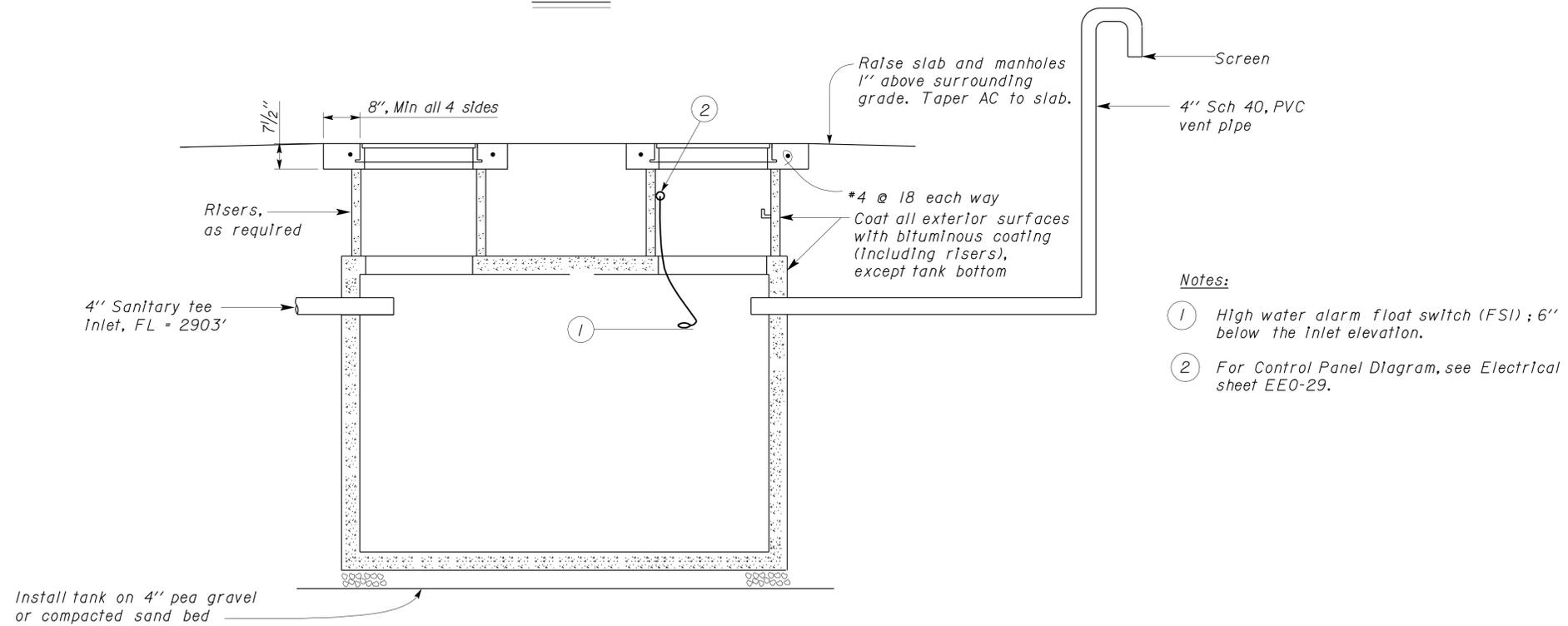
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G. ANDERSEN
Approval date: 01-20-2011



PLAN



- Notes:
- ① High water alarm float switch (FSI); 6" below the inlet elevation.
 - ② For Control Panel Diagram, see Electrical sheet EEO-29.

1 3000 GALLON CLARIFIER TANK
NO SCALE

DESIGN	BY Laurie Vasquez	CHECKED Don Hansen
DETAILS	BY Laurie Vasquez	CHECKED Don Hansen
QUANTITIES	BY Laurie Vasquez	CHECKED Don Hansen

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE NO.	54-1216J
POST MILE	87.1/87.5

MOUNTAIN PASS JOE
CLARIFIER (HOLDING TANK)

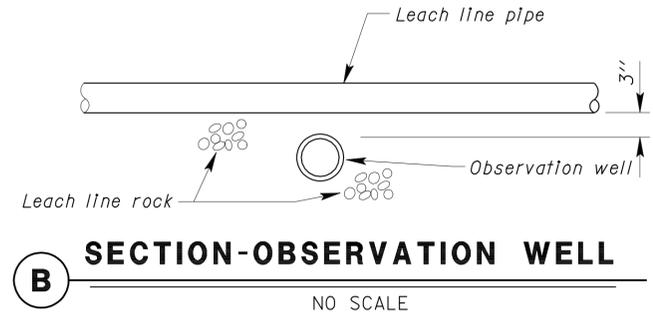
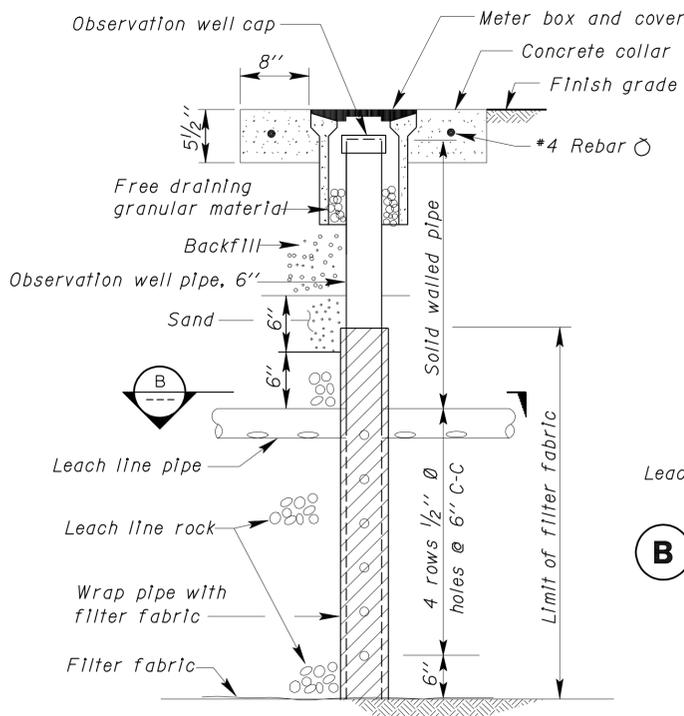
SHEET **SS7-2** OF

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	15	177.3/181.1	709	710

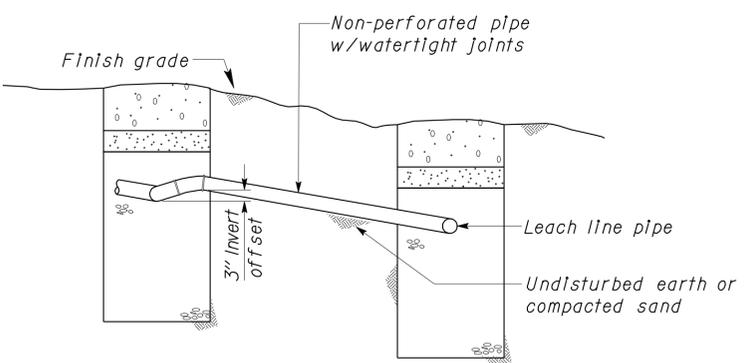
CALIFORNIA STATE FIRE MARSHAL APPROVED Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.	
Reviewed by: <i>G. Andersen</i> G. ANDERSEN Approval date: 01-20-2011	11-30-12 DATE

2-25-13 PLANS APPROVAL DATE	
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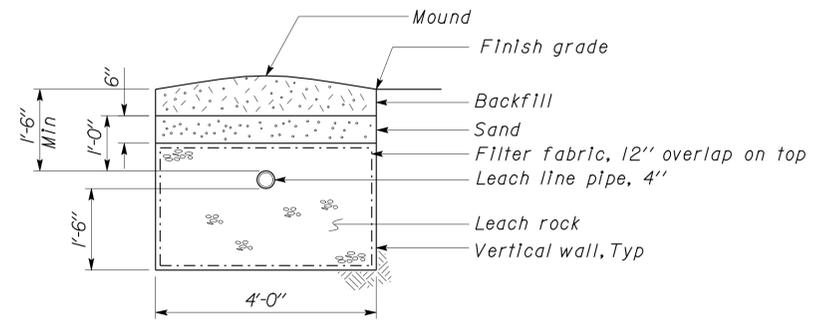
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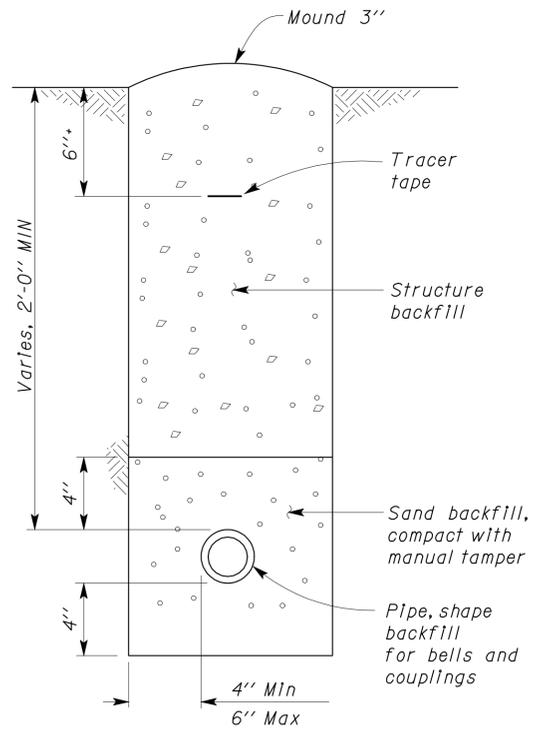
2 OBSERVATION WELL
NO SCALE



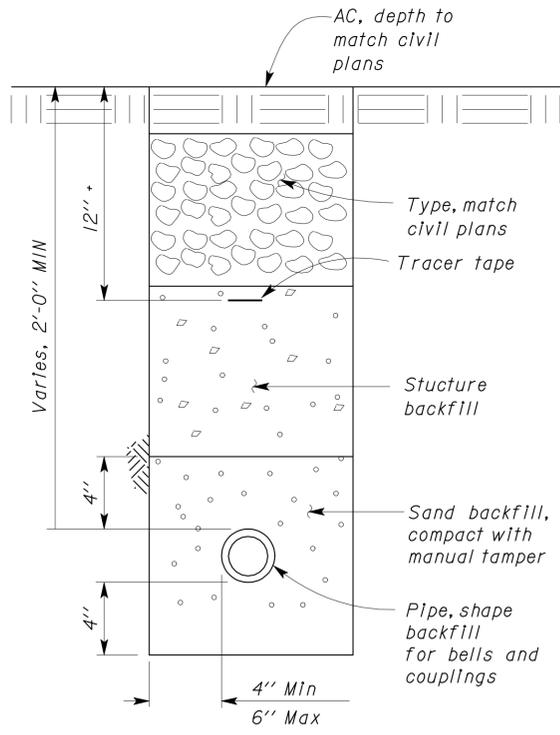
3 LEACH LINE CROSSOVER
NO SCALE



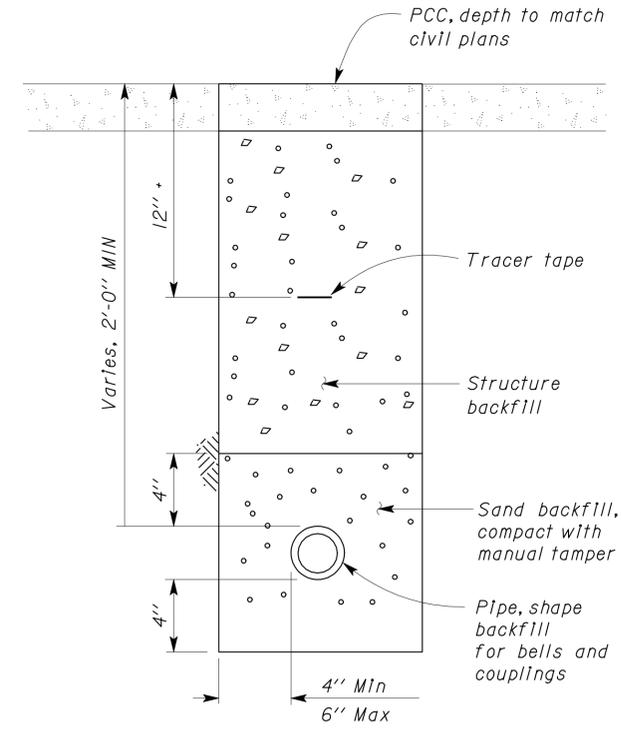
4 LEACH LINE
NO SCALE



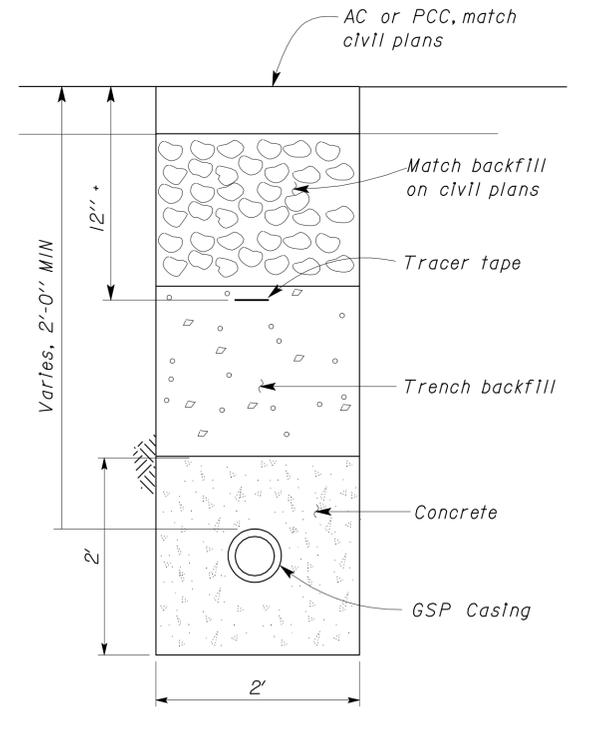
SECTION-TRENCH MOUND
NO SCALE



SECTION-TRENCH, AC
NO SCALE



SECTION-TRENCH, PCC
NO SCALE



SECTION-TRENCH, PCC ENCASEMENT
NO SCALE

1 SEWAGE PIPE
NO SCALE

DESIGN	BY Laurie Vasquez	CHECKED Don Hansen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 54-1216J	MOUNTAIN PASS JOE	SHEET SS7-3
	DETAILS	BY Laurie Vasquez			CHECKED Don Hansen		
QUANTITIES	BY Laurie Vasquez	CHECKED Don Hansen	CU 08224 EA 09000006281	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF	

DOES SD Imperial Rev. 1/8 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

27-FEB-2013 08:10 ss7_3.dgn

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	15	177.3/181.1	710	710

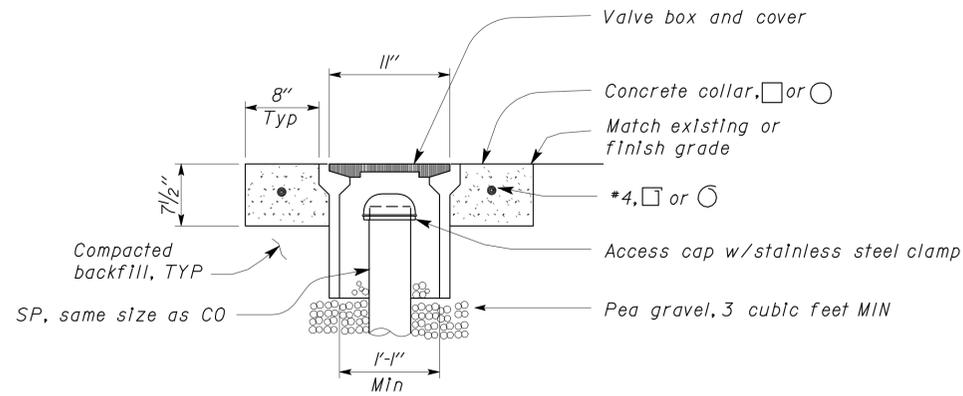
Jerome R. Marcotte
REGISTERED CIVIL ENGINEER
DATE 11-30-12



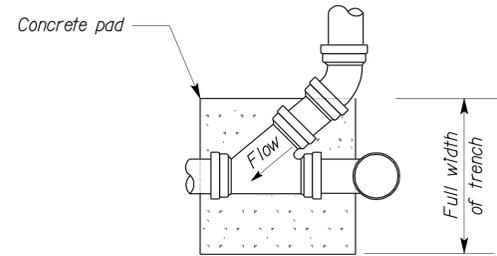
2-25-13
PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

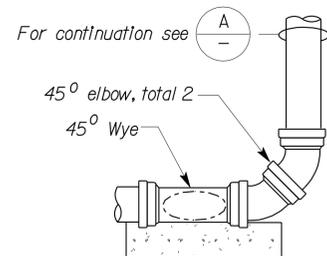
CALIFORNIA STATE FIRE MARSHAL APPROVED
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
Reviewed by: G. ANDERSEN
Approval date: 01-20-2011



A COTG ACCESS BOX
NO SCALE

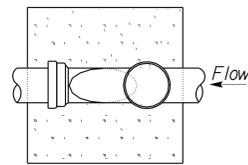


PLAN

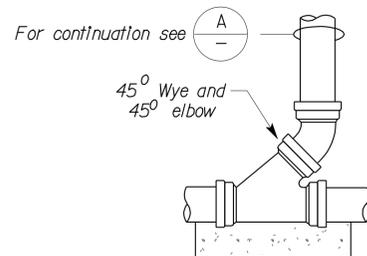


ELEVATION

CLEANOUT (AT BEND)

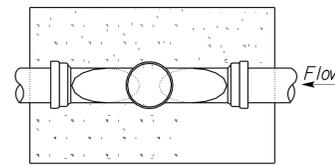


PLAN

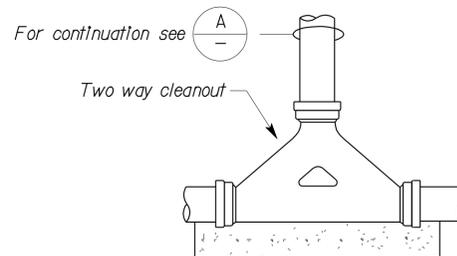


ELEVATION

CLEANOUT (STANDARD)

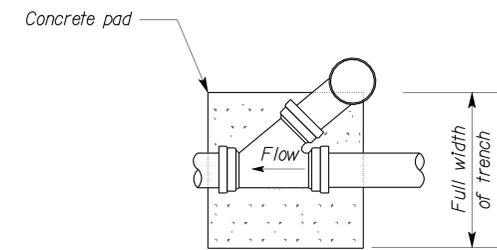


PLAN

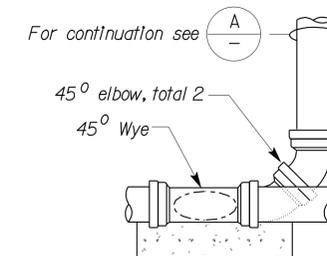


ELEVATION

TWO WAY CLEANOUT



PLAN



ELEVATION

CLEANOUT (REDUCED CLEARANCE)

1 CLEANOUT TO GRADE
No Scale

Concrete pad shown typical for all cleanouts

DESIGN	BY Laurie Vasquez	CHECKED Don Hansen
DETAILS	BY Laurie Vasquez	CHECKED Don Hansen
QUANTITIES	BY Laurie Vasquez	CHECKED Don Hansen

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE NO.	54-1216J
POST MILE	87.1/87.5

MOUNTAIN PASS JOE

CLEANOUT AND DETAILS

SHEET SS7-4