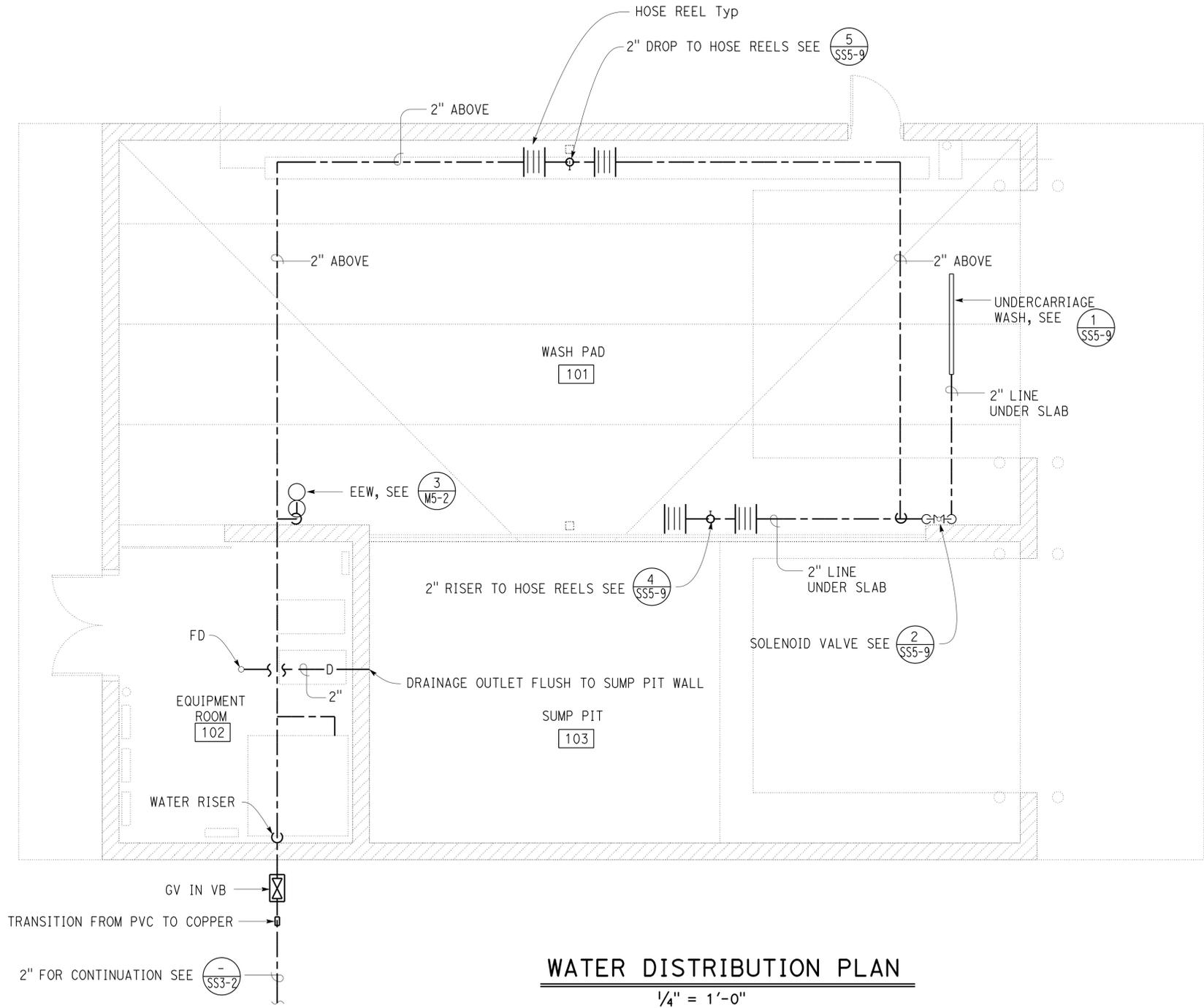


DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Cal	4,88	Var	101	187
<i>Shahjahan Ali</i> REGISTERED MECHANICAL ENGINEER			01/04/13 DATE		
7-22-13 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					



NOTE:
 1. All overhead piping must be installed at roof level and support from wall or roof structure and route to avoid conflict with overhead door and other installations.

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: *Ingrid P. Icasiano*
 INGRID P. ICASIANO
 Approval date: 04-10-13
 CSFM No. N-12-1027, N-12-1028, N-12-1029, N-12-1030

WATER DISTRIBUTION PLAN
 1/4" = 1'-0"

THIS DRAWING ACCURATE FOR MECHANICAL WORK ONLY

DESIGN BY SHAHJAHAN ALI CHECKED JACK WHEELER DETAILS BY A. CHEN CHECKED JACK WHEELER QUANTITIES BY SHAHJAHAN ALI CHECKED JACK WHEELER	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 5718	DISTRICT 10 WASH RACKS PHASE 2		SHEET M3-2
			POST MILE	PINE GROVE M.S.	WATER DISTRIBUTION PLAN	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		UNIT PROJECT NUMBER & PHASE 3615 10120001811	DISREGARD PRINTS BEARING EARLIER REVISION DATES REVISION DATES (PRELIMINARY STAGE ONLY) 04-26-12 05-25-12 06-22-12 10-09-12 11-09-12 01-04-13			SHEET OF 101 OF 187

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alp, Ama, Cal	4,88	Var	102	187

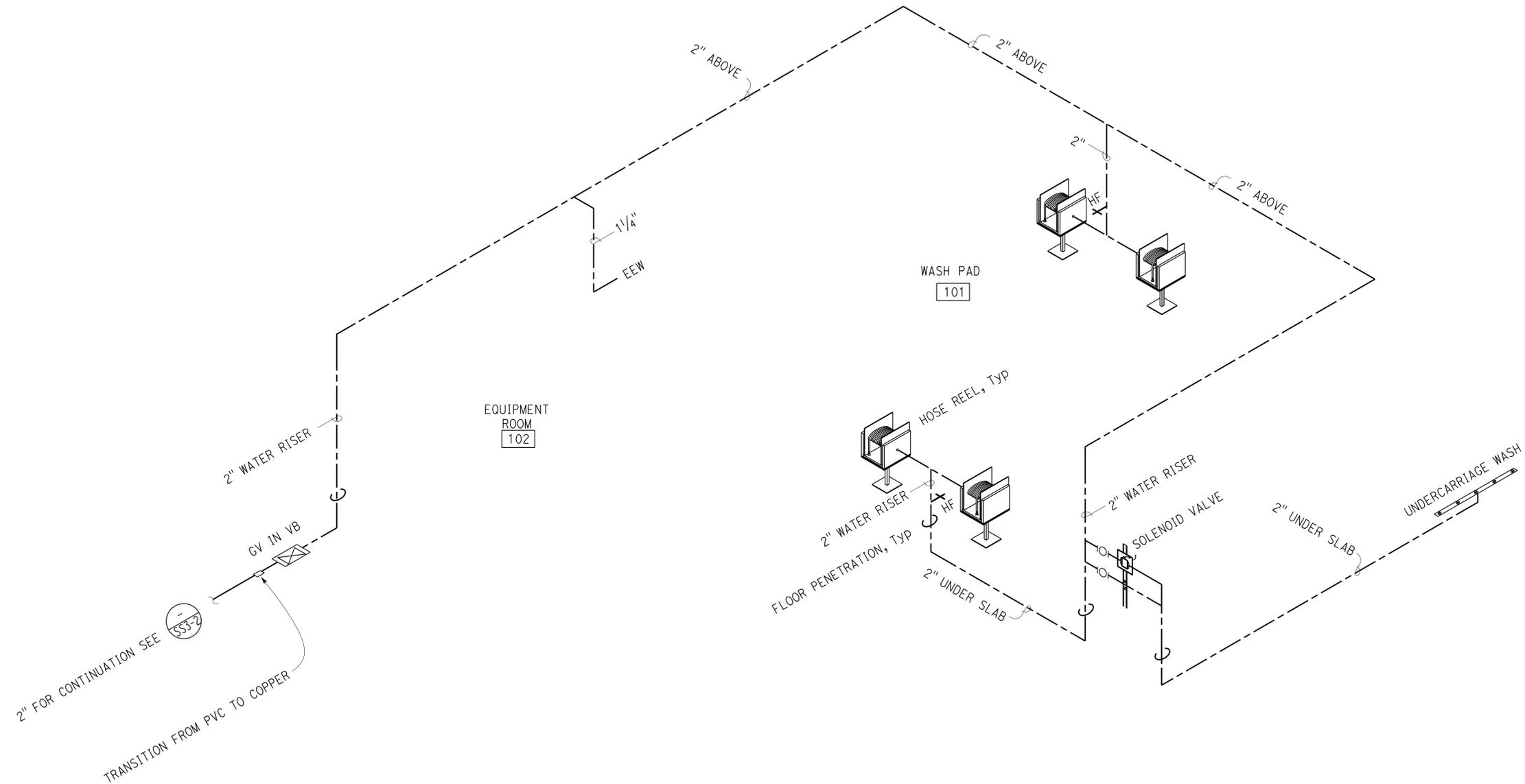
Shahjahan Ali
 REGISTERED MECHANICAL ENGINEER
 DATE 01/04/13



7-22-13
 PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned 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: *Ingrid P. Casiano*
 INGRID P. CASIANO
 Approval date: 04-10-13
 CSFM No.
 N-12-1027, N-12-1028
 N-12-1029, N-12-1030



WATER ISOMETRIC
 NO SCALE

THIS DRAWING ACCURATE FOR MECHANICAL WORK ONLY

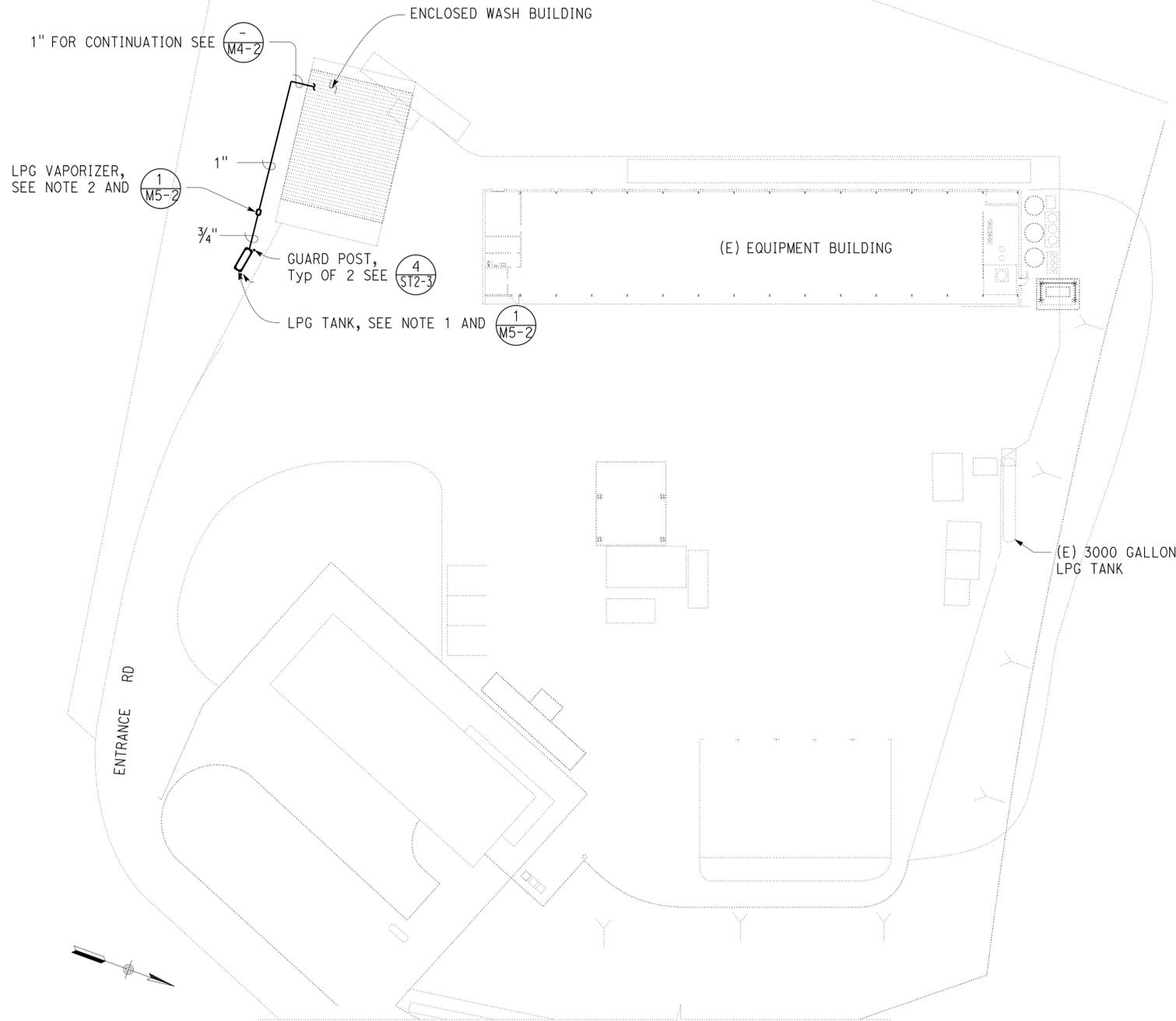
DESIGN BY SHAHJAHAN ALI CHECKED JACK WHEELER	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 5718	DISTRICT 10 WASH RACKS PHASE 2		SHEET	
			POST MILE	PINE GROVE M.S.	WATER ISOMETRIC	M3-3	
DETAILS BY A. CHEN CHECKED JACK WHEELER	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3615 10120001811	DISREGARD PRINTS BEARING EARLIER REVISION DATES			REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
QUANTITIES BY SHAHJAHAN ALI CHECKED JACK WHEELER			04-26-12 05-25-12 06-22-12 10-09-12 11-09-12 01-04-13				

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Cal	4,88	Var	103	187
<i>Shahjahan Ali</i> REGISTERED MECHANICAL ENGINEER			01/04/13 DATE		
7-22-13 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned 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: *Ingrid P. Castano*
 INGRID P. CASTANO
 Approval date: 04-10-13

CSFM No.
 N-12-1027, N-12-1028,
 N-12-1029, N-12-1030



NOTES:

- LPG Tank must be 500 gallons water capacity and installed at a minimum distance of 10 feet from building and property line.
- LPG Vaporizer must be 40 gallons per hour vaporizing capacity, direct-fired and installed as per manufacturer's recommendations.

GENERAL NOTES:

- Contractor must field inspect all controlling field dimensions and conditions, connection point of existing utility lines and verify existing structures and underground utility lines before ordering and or fabricating any materials, trenching, and or construction work. Should it be necessary to re-route the pipes due to conditions found on the site or if indicated point of connection cannot be made to the lines as found, Contractor must notify the Engineer before doing any work which may be affected.
- Surfaces disturbed during the installation of the new lines must be replaced to match the adjacent surrounding surfaces.

CAMP CONNELL MS SITE PLAN

SCALE 1" = 30'-0"

THIS DRAWING ACCURATE FOR MECHANICAL WORK ONLY

DESIGN SUPERVISOR <i>Paul Schreff</i>	DESIGN ARCHITECT <i>L.W. White</i>	DESIGN BY	SHAHJAHAN ALI	CHECKED	JACK WHEELER	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	5726	DISTRICT 10 WASH RACKS PHASE 2 CAMP CONNELL M.S.	SHEET M4-0
		DETAILS BY	A. CHEN	CHECKED	JACK WHEELER			POST MILE			
		QUANTITIES BY	SHAHJAHAN ALI	CHECKED	JACK WHEELER			UNIT PROJECT NUMBER & PHASE	3615 10120001811	DISREGARD PRINTS BEARING EARLIER REVISION DATES →	

23-SEP-2013 10:12

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Cal	4,88	Var	104	187

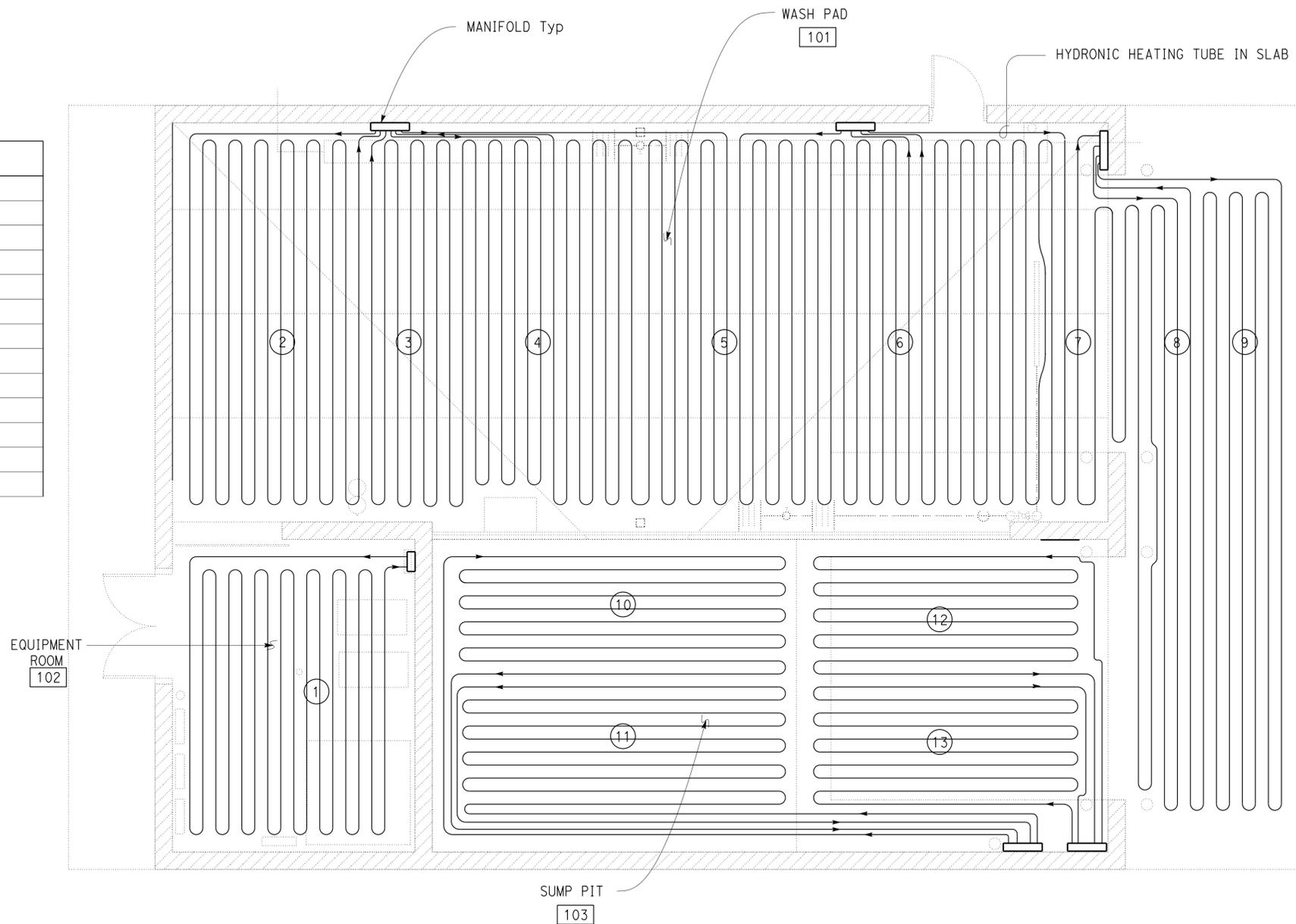
Shahjahan Ali
 REGISTERED MECHANICAL ENGINEER
 DATE 01/04/13
 PLANS APPROVAL DATE 7-22-13

REGISTERED PROFESSIONAL ENGINEER
 Shahjahan Ali
 No. 32144
 Exp. 09/30/14
 MECH
 STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned 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: *Ingrid P. Icasiano*
 INGRID P. ICASIANO
 Approval date: 04-10-13
 CSFM No.
 N-12-1027, N-12-1028,
 N-12-1029, N-12-1030

LOOP	APPROXIMATE LENGTH
1	260'
2	230'
3	265'
4	275'
5	275'
6	275'
7	255'
8	230'
9	240'
10	200'
11	215'
12	150'
13	175'



- NOTES:
- All hydronic heating tubes shall be 5/8" diameter PEX tubing and shall be filled with 35% propylene glycol solution.
 - All tubes to have 9" spacing.
 - Tubes to be placed 1'-0" from edge of slab.
 - Provide insulation at the edges of heated slab.
 - For tube in slab see (2/M5-1).
 - For tubes crossing at expansion joints see (4/M5-1) and for construction joints see (5/M5-1).

HYDRONIC HEATING TUBING LAYOUT
 1/4" = 1'-0"

THIS DRAWING ACCURATE FOR MECHANICAL WORK ONLY

DESIGN BY SHAHJAHAN ALI CHECKED JACK WHEELER DETAILS BY A. CHEN CHECKED JACK WHEELER QUANTITIES BY SHAHJAHAN ALI CHECKED JACK WHEELER	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 5726	DISTRICT 10 WASH RACKS PHASE 2 CAMP CONNELL M.S. HYDRONIC HEATING TUBING LAYOUT	SHEET M4-1
			POST MILE		DISREGARD PRINTS BEARING EARLIER REVISION DATES REVISION DATES (PRELIMINARY STAGE ONLY) 04-26-12 05-25-12 06-22-12 10-09-12 11-09-12 01-04-13
TAEMWW Imperial Rev. 7/10 FILE => M4_1.dgn DATE PLOTTED => 23-SEP-2013 TIME PLOTTED => 10:12	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	3615 10120001811	EA 0X2101	23-SEP-2013 10:12 M4_1.dgn	

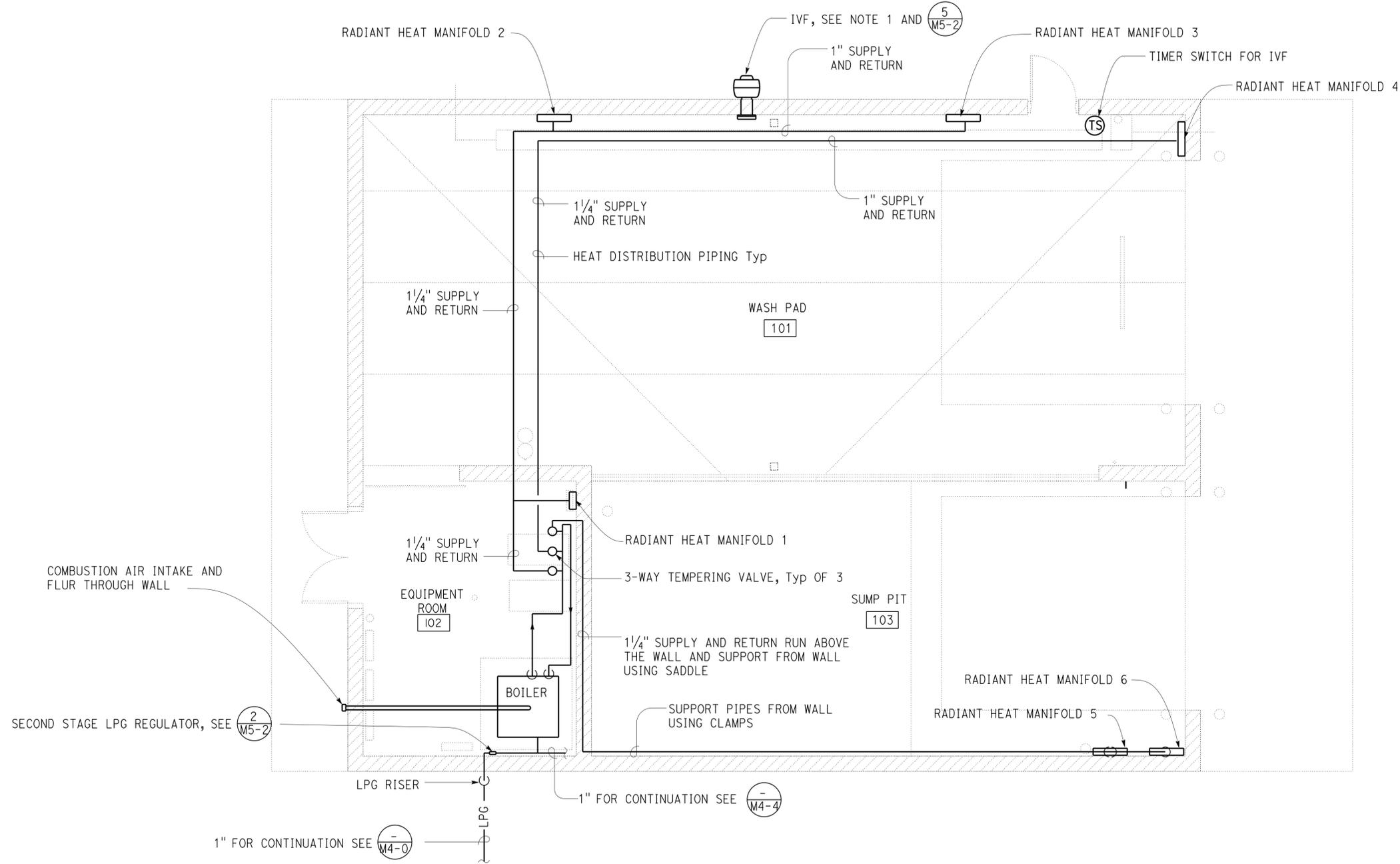
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Cal	4,88	Var	105	187

Shahjahan Ali
 REGISTERED MECHANICAL ENGINEER
 DATE 01/04/13



7-22-13
 PLANS APPROVAL DATE
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned 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: *Ingrid P. Casiano*
 INGRID P. CASIANO
 Approval date: 04-10-13
 CSFM No. N-12-1027, N-12-1028, N-12-1029, N-12-1030

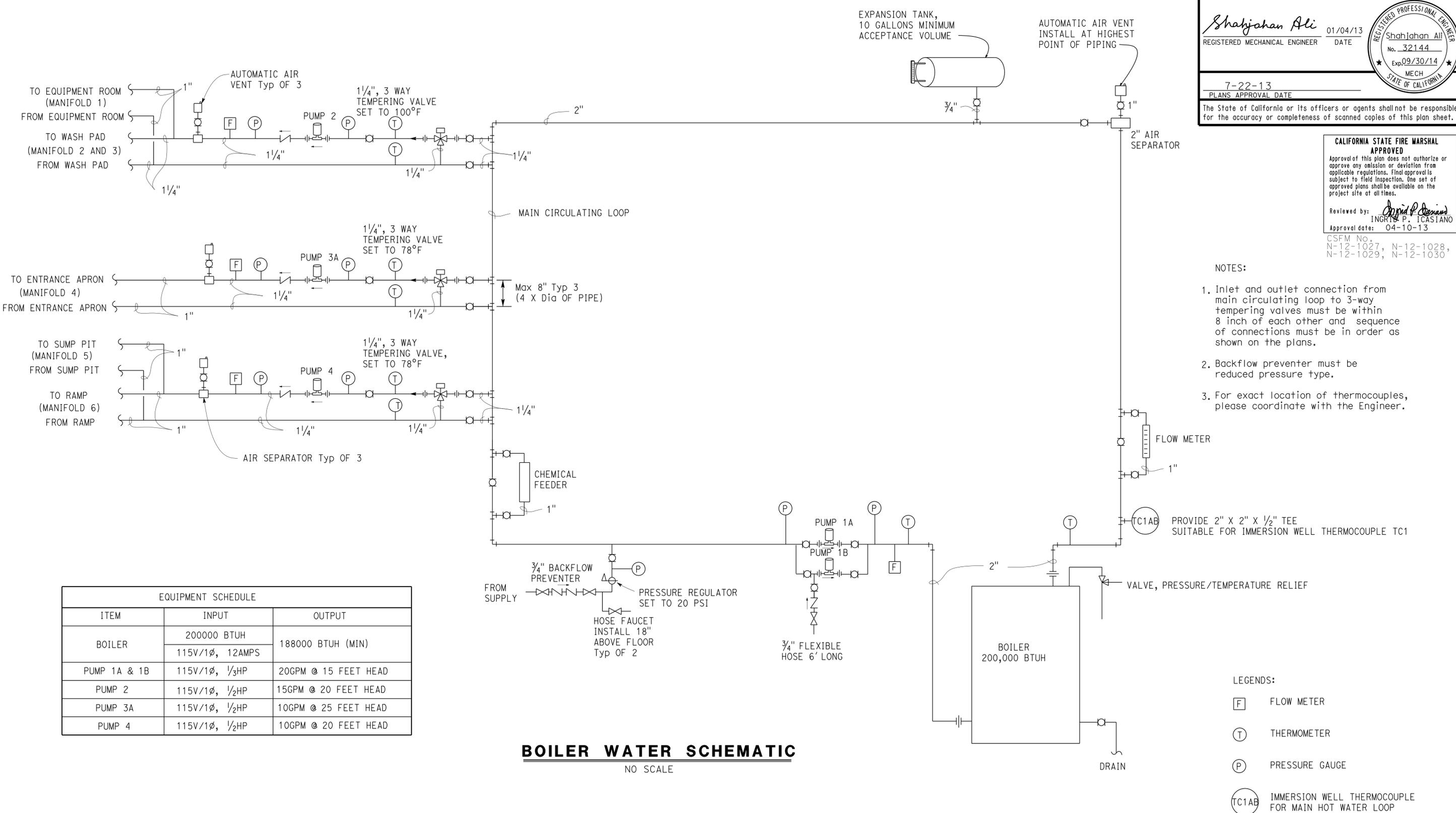


- NOTES:
1. IVF, industrial ventilation fan, centrifugal type 3000 CFM @ 0.25" W.C., sones maximum 12, 1/2Hp 230V, 3Ph. Install at 25 feet above finished floor.
 2. All heat distribution piping must be filled with 35% propylene glycol solution.
 3. All overhead piping must be installed at roof level and support from wall or roof structure and route to avoid conflict with overhead door and other installations.
 4. All equipment and connection schematic see $\text{\textcircled{M4-3}}$

HEAT DISTRIBUTION PIPING AND EXHAUST FAN
 $\frac{1}{4}'' = 1'-0''$

THIS DRAWING ACCURATE FOR MECHANICAL WORK ONLY

DESIGN BY SHAHJAHAN ALI CHECKED JACK WHEELER DETAILS BY A. CHEN CHECKED JACK WHEELER QUANTITIES BY SHAHJAHAN ALI CHECKED JACK WHEELER	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 5726 POST MILE	DISTRICT 10 WASH RACKS PHASE 2 CAMP CONNELL M.S.	SHEET M4-2 OF
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3			3615 10120001811	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 04-26-12 05-25-12 06-22-12 10-09-12 01-04-13
	FILE => M4_2.dgn DATE PLOTTED => 23-SEP-2013 TIME PLOTTED => 10:12	EA 0X2101			23-SEP-2013 10:12 M4_2.dgn	



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: *Ingrid P. Castano*
 INGRID P. CASTANO
 Approval date: 04-10-13
 CSFM No. N-12-1027, N-12-1028, N-12-1029, N-12-1030

- NOTES:
- Inlet and outlet connection from main circulating loop to 3-way tempering valves must be within 8 inch of each other and sequence of connections must be in order as shown on the plans.
 - Backflow preventer must be reduced pressure type.
 - For exact location of thermocouples, please coordinate with the Engineer.

EQUIPMENT SCHEDULE		
ITEM	INPUT	OUTPUT
BOILER	200000 BTUH	188000 BTUH (MIN)
	115V/1Ø, 12AMPS	
PUMP 1A & 1B	115V/1Ø, 1/3HP	20GPM @ 15 FEET HEAD
PUMP 2	115V/1Ø, 1/2HP	15GPM @ 20 FEET HEAD
PUMP 3A	115V/1Ø, 1/2HP	10GPM @ 25 FEET HEAD
PUMP 4	115V/1Ø, 1/2HP	10GPM @ 20 FEET HEAD

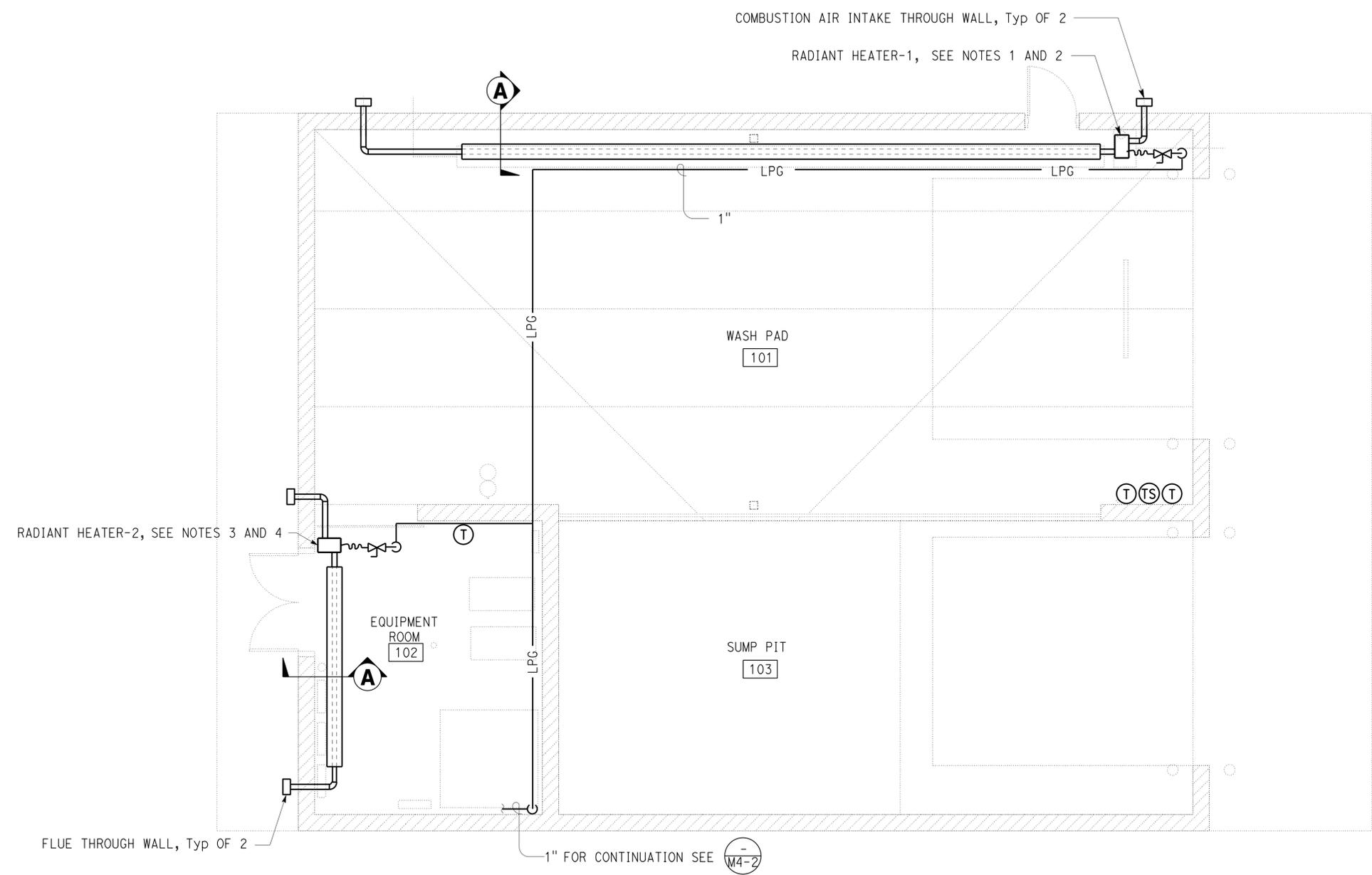
BOILER WATER SCHEMATIC
 NO SCALE

THIS DRAWING ACCURATE FOR MECHANICAL WORK ONLY

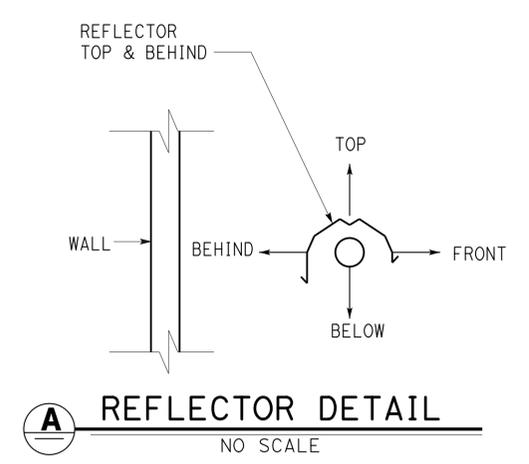
DESIGN BY SHAHJAHAN ALI CHECKED JACK WHEELER DETAILS BY A. CHEN CHECKED JACK WHEELER QUANTITIES BY SHAHJAHAN ALI CHECKED JACK WHEELER	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 5726	DISTRICT 10 WASH RACKS PHASE 2 CAMP CONNELL M.S.	SHEET
			POST MILE		BOILER SCHEMATIC
UNIT PROJECT NUMBER & PHASE 3615 10120001811			DISREGARD PRINTS BEARING EARLIER REVISION DATES		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3			REVISION DATES (PRELIMINARY STAGE ONLY)		
TAEMWW Imperial Rev. 7/10 FILE => M4_3.dgn DATE PLOTTED => 23-SEP-2013 TIME PLOTTED => 10:13			SHEET OF		

23-SEP-2013 10:13 M4_3.dgn

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Cal	4,88	Var	107	187
Reviewed by: <i>Shahjahan Ali</i> REGISTERED MECHANICAL ENGINEER DATE 01/04/13				REGISTERED PROFESSIONAL ENGINEER Shahjahan Ali No. 32144 Exp. 09/30/14 MECH STATE OF CALIFORNIA	
CSFM No. N-12-1027, N-12-1028, N-12-1029, N-12-1030 APPROVAL DATE: 04-10-13 7-22-13 PLANS APPROVAL DATE The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					



- NOTES:
- Radiant heater-1 burner must be 125,000 BTUH input, two stage operation, LPG capacity, 120V-1Ph, combustion air intake and flue outlet through wall as shown in the plans and installed as per manufacturer's recommendations.
 - Radiant heater-1 tubing must be 41 feet in length and installed at 15 feet from finished floor. Support radiant heater tubing from wall. Install reflector above and behind the tube.
 - Radiant heater-2 burner must be 25,000 BTUH input, LPG capacity, 120V-1Ph, combustion air intake and flue outlet through wall as shown in the plans and installed as per manufacturer's recommendations.
 - Radiant heater-2 tubing must be 12 feet in length and installed at 9 feet from finished floor. Support radiant heater tubing from wall. Install reflector above and behind the tube.
 - All components of radiant heater must be stainless steel.
 - Thermostat and timer switch must be watertight.
 - All piping must be installed at roof level and routed to avoid conflict with overhead door and other installations.



RADIANT HEATING PLAN
1/4" = 1'-0"

THIS DRAWING ACCURATE FOR MECHANICAL WORK ONLY

DESIGN BY SHAHJAHAN ALI CHECKED JACK WHEELER DETAILS BY A. CHEN CHECKED JACK WHEELER QUANTITIES BY SHAHJAHAN ALI CHECKED JACK WHEELER	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 5726	DISTRICT 10 WASH RACKS PHASE 2		SHEET
			POST MILE	CAMP CONNELL M.S.	RADIANT HEATING PLAN	M4-4
FILE => M4_4.dgn DATE PLOTTED => 23-SEP-2013 TIME PLOTTED => 10:13	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3615 10120001811	DISREGARD PRINTS BEARING EARLIER REVISION DATES REVISION DATES (PRELIMINARY STAGE ONLY) 04-26-12 05-26-12 06-22-12 10-09-12 11-09-12 01-04-13			SHEET OF 10-13

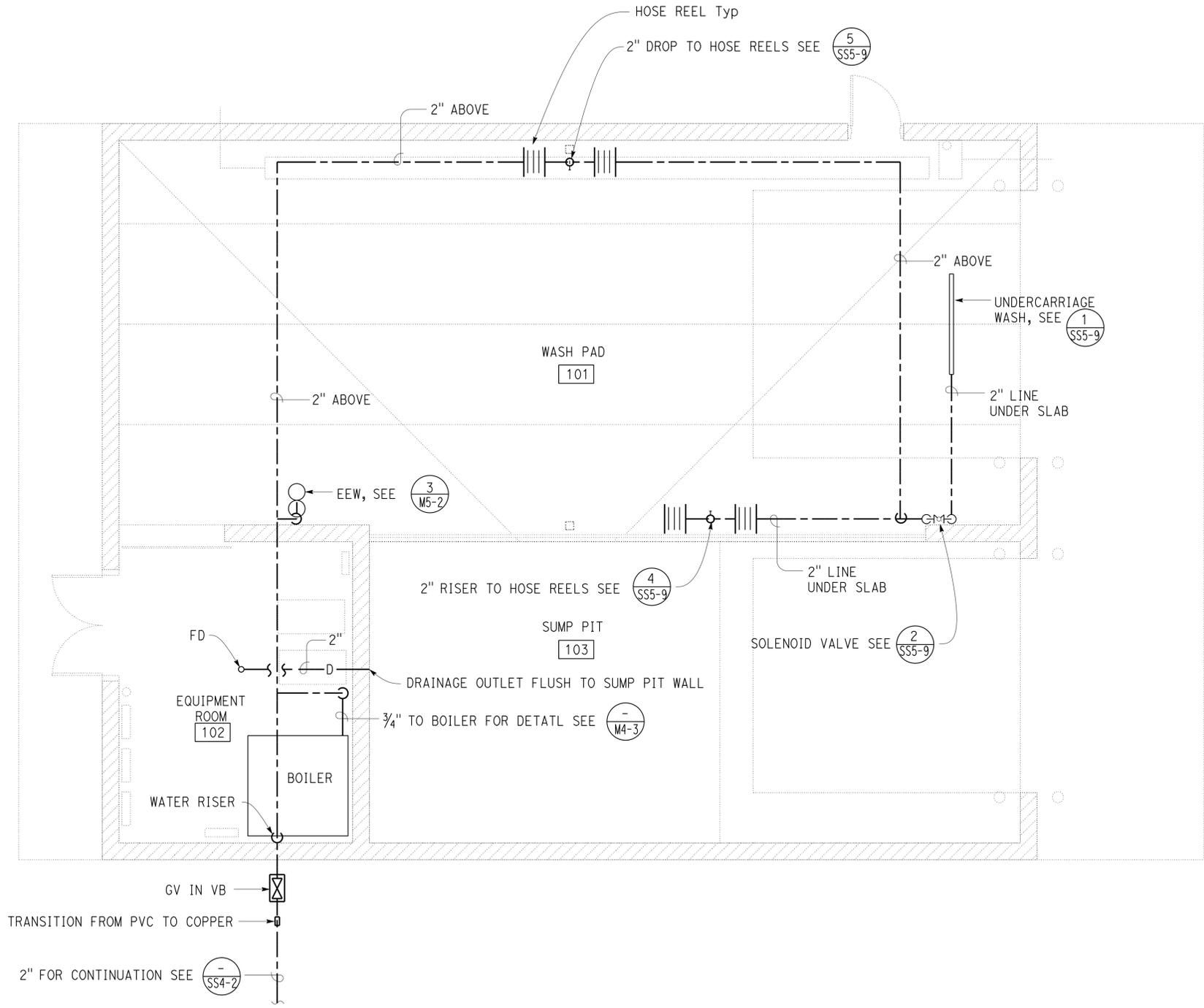
CALIFORNIA STATE FIRE MARSHAL APPROVED
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approvals subject to field inspection. One set of approved plans shall be available on the project site at all times.
 Reviewed by: *Ingrid P. Icasiano*
 INGRID P. ICASIANO
 Approval date: 04-10-13
 CSFM No. N-12-1027, N-12-1028, N-12-1029, N-12-1030

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Cal	4,88	Var	108	187

<i>Shahjahan Ali</i>		01/04/13
REGISTERED MECHANICAL ENGINEER	DATE	

7-22-13	
PLANS APPROVAL DATE	

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



NOTE:
 All overhead piping must be installed at roof level and support from wall or roof structure and route to avoid conflict with overhead door and other installations.

WATER DISTRIBUTION PLAN
 1/4" = 1'-0"

THIS DRAWING ACCURATE FOR MECHANICAL WORK ONLY

DESIGN BY SHAHJAHAN ALI CHECKED JACK WHEELER	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 5726	DISTRICT 10 WASH RACKS PHASE 2		SHEET				
			POST MILE	CAMP CONNELL M.S.	WATER DISTRIBUTION PLAN	M4-5				
DETAILS BY A. CHEN CHECKED JACK WHEELER	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	3615 10120001811	REVISION DATES (PRELIMINARY STAGE ONLY)			SHEET OF				
QUANTITIES BY SHAHJAHAN ALI CHECKED JACK WHEELER	0 1 2 3	DISREGARD PRINTS BEARING EARLIER REVISION DATES	04-26-12	05-25-12	06-22-12	10-09-12	11-09-12	01-04-13		

TAEMWW Imperial Rev. 7/10 FILE => M4_5.dgn DATE PLOTTED => 23-SEP-2013 TIME PLOTTED => 10:13 EA 0X2101 M4_5.dgn

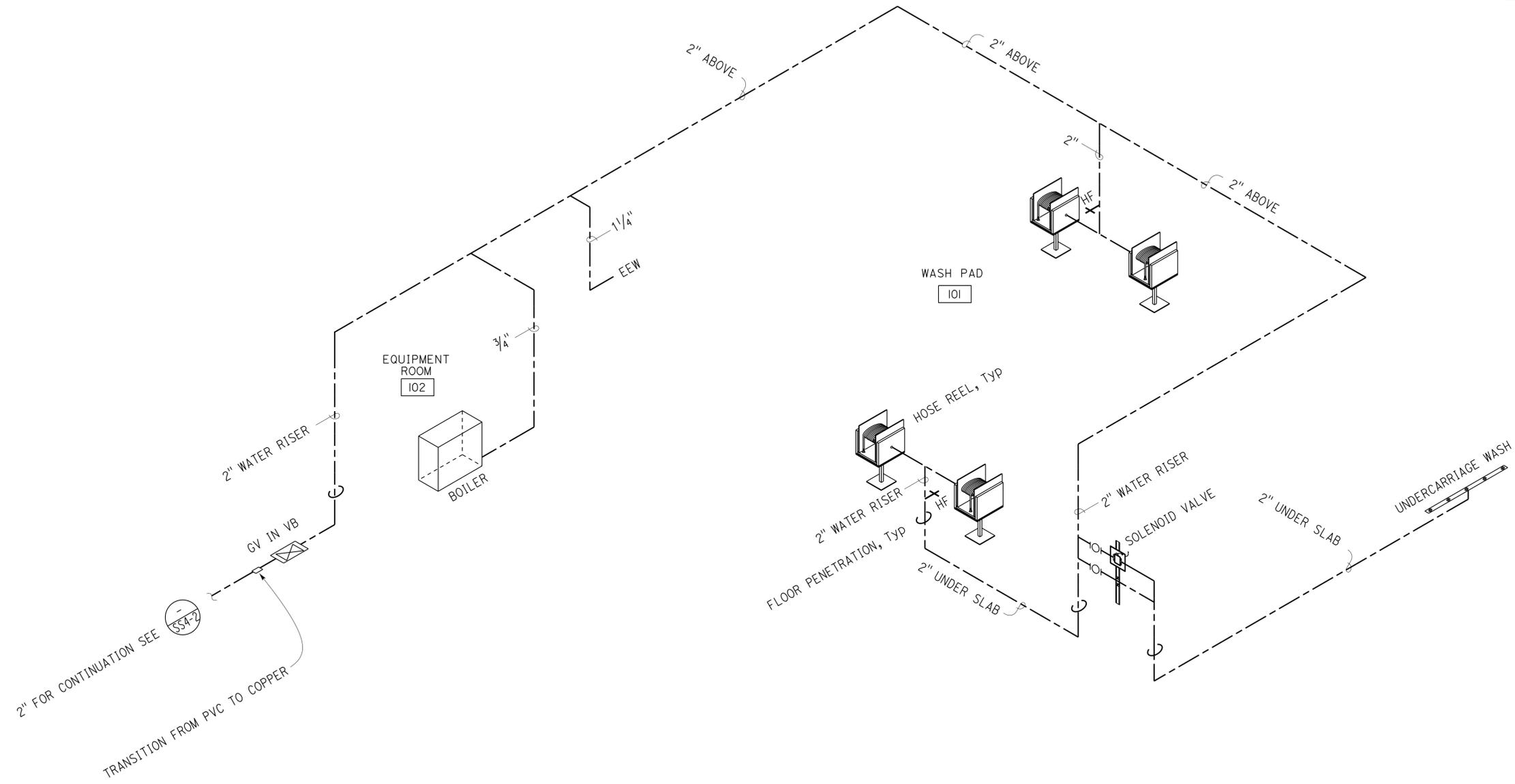
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Cal	4,88	Var	109	187
Shahjahan Ali REGISTERED MECHANICAL ENGINEER		01/04/13 DATE			
7-22-13 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned 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. The set of approved plans shall be available on the project site at all times.

Reviewed by: *Ingrid P. Casiano*
 INGRID P. CASTIANO
 Approval date: 04-10-13

CSFM No.
 N-12-1027, N-12-1028,
 N-12-1029, N-12-1030



WATER ISOMETRIC
 NO SCALE

THIS DRAWING ACCURATE FOR MECHANICAL WORK ONLY

DESIGN BY SHAHJAHAN ALI CHECKED JACK WHEELER DETAILS BY A. CHEN CHECKED JACK WHEELER QUANTITIES BY SHAHJAHAN ALI CHECKED JACK WHEELER	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN		BRIDGE NO.	DISTRICT 10 WASH RACKS PHASE 2 WATER ISOMETRIC	SHEET		
					5726		CAMP CONNELL M.S.	M4-6	
					POST MILE				
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		3615 10120001811		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET	OF

23-SEP-2013 10:13

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Cal	4,88	Var	110	187

<i>Shahjahan Ali</i>		01/04/13
REGISTERED MECHANICAL ENGINEER	DATE	

7-22-13
PLANS APPROVAL DATE

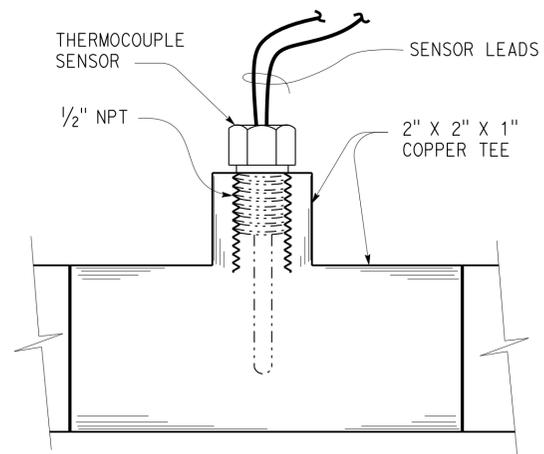
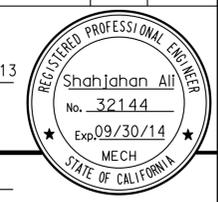
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.

CALIFORNIA STATE FIRE MARSHAL APPROVED

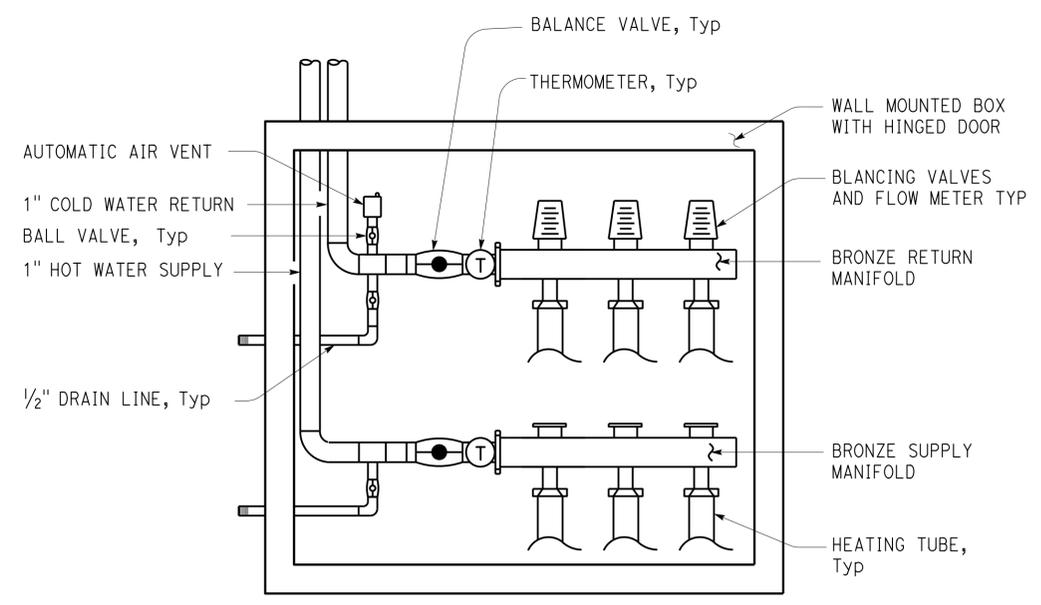
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

Reviewed by: *Ignacio P. Castano*
INGRUB P. CASTANO
Approval date: 04-10-13

CSFM No.:
N-12-1027, N-12-1028,
N-12-1029, N-12-1030

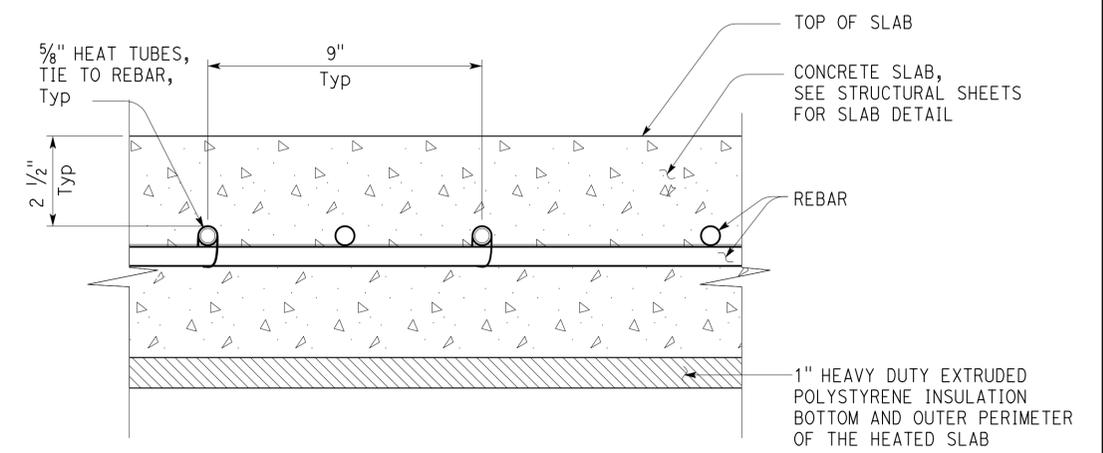


1 THERMOCOUPLE IN PIPE
NO SCALE

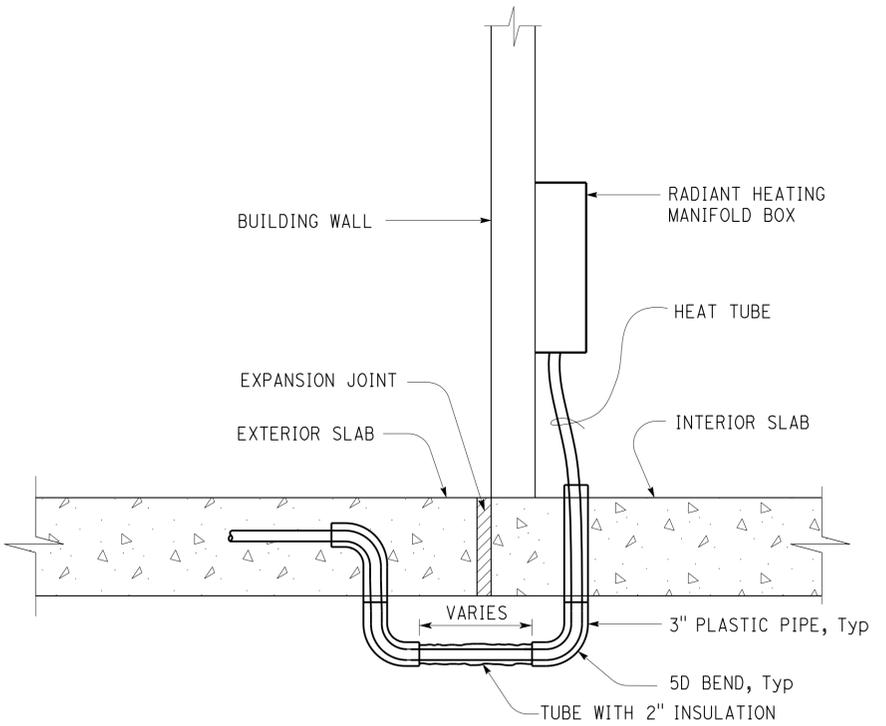


NOTE:
1. 3-BRANCH MANIFOLD SHOWN, 1 AND 2 BRANCHES MANIFOLD SIMILAR.

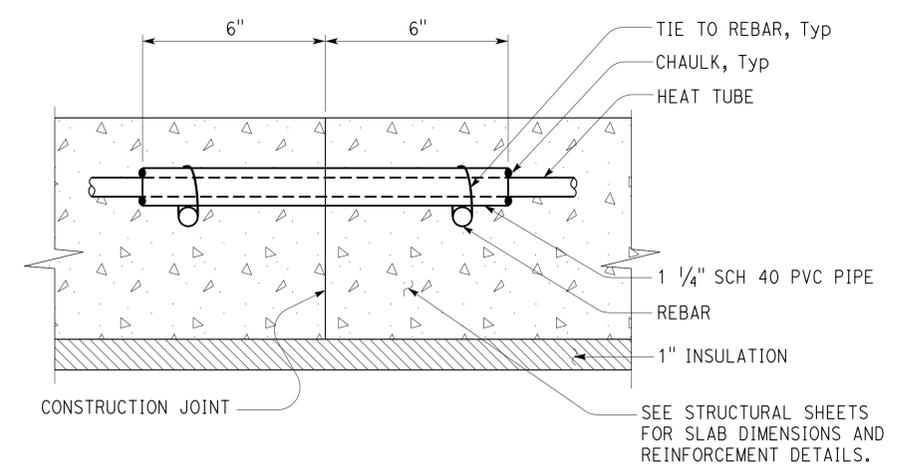
3 RADIANT HEATING MANIFOLD
NO SCALE



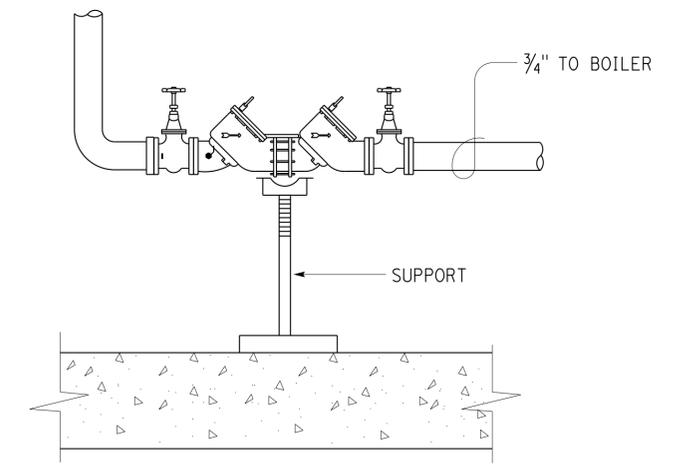
2 HEATING TUBES IN SLAB
NO SCALE



4 HEATING TUBE AT EXPANSION JOINT
NO SCALE



5 HEATING TUBE AT CONSTRUCTION JOINT
NO SCALE



6 BACKFLOW PREVENTER
NO SCALE

- NOTES:
- SEE STRUCTURAL SHEETS FOR SLAB DETAILS.
 - PROVIDE ONE PENETRATION FOR EACH SUPPLY AND RETURN.
 - 1" HEAVY DUTY EXTRUDED POLYSTYRENE INSULATION MUST BE INSULATED AT BOTTOM AND OUTER PERIMETER OF THE HEATED SLAB.

THIS DRAWING ACCURATE FOR MECHANICAL WORK ONLY

DESIGN BY: SHAHJAHAN ALI	CHECKED: JACK WHEELER	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. VARIOUS	DISTRICT 10 WASH RACKS PHASE 2	SHEET M5-1
DETAILS BY: A. CHEN	CHECKED: JACK WHEELER		ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	POST MILE		
QUANTITIES BY: SHAHJAHAN ALI	CHECKED: JACK WHEELER		UNIT PROJECT NUMBER & PHASE: 3615 10120001811	EA 0X2101	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Cal	4,88	Var	111	187

Shahjahan Ali
 REGISTERED MECHANICAL ENGINEER
 DATE 01/04/13
 No. 32144
 Exp. 09/30/14
 MECH
 STATE OF CALIFORNIA

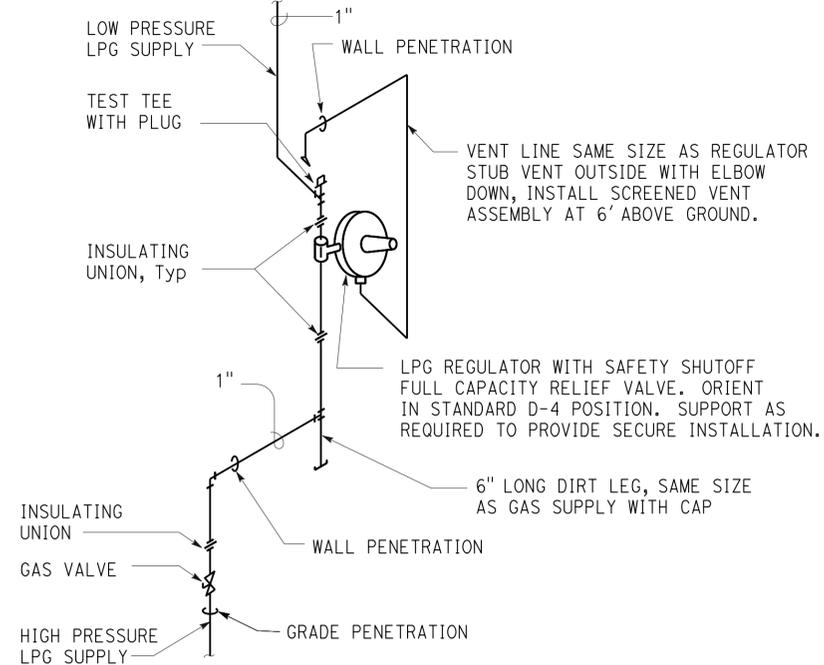
7-22-13
 PLANS APPROVAL DATE

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

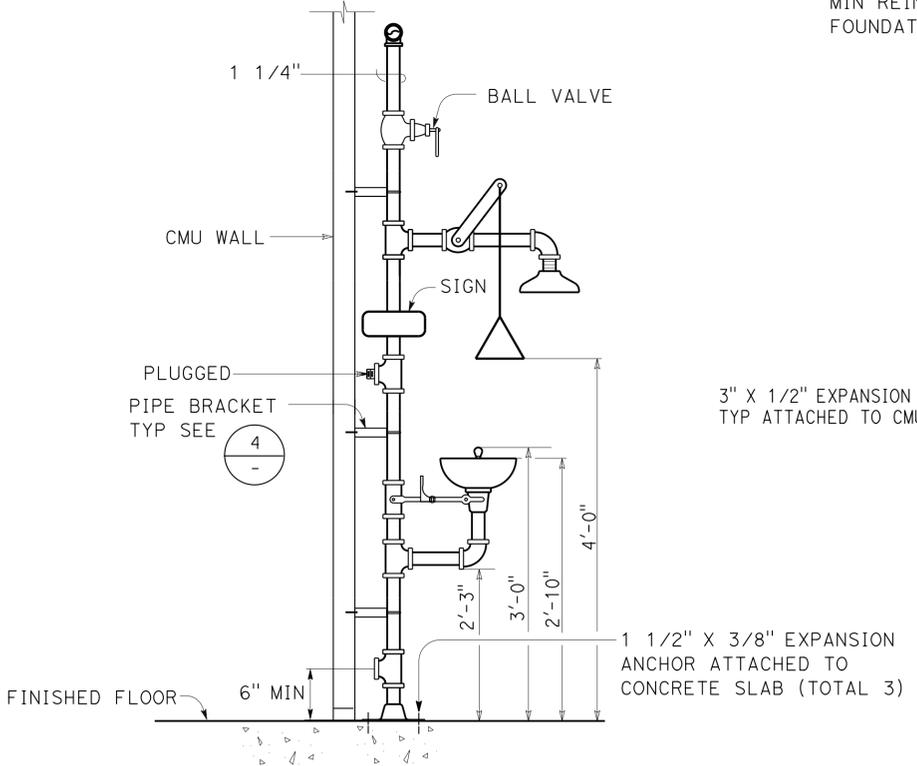
EQUIPMENT SCHEDULE	
ITEM	CAPACITY
LPG TANK	500 GALLONS
LPG VAPORIZER	40 GALLONS/Hr VAPORIZATION
FIRST STAGE REGULATOR	500000 BTUH @ 10 PSI
SECOND STAGE REGULATOR	500000 BTUH FROM LINE PRESSURE TO 11" W.C.

- NOTES:
- LPG Vaporizer must be direct-fired type and install as per manufacturer's recommendations.
 - The table and piping connections shown are approximate only. Exact dimensions and connections will be governed by codes, LPG tank and vaporizer manufacturer's recommendations.
 - Only few accessories and fittings are shown, additional accessories and fittings may be required for proper operation and maintenance.
 - Piping layout are shown for demonstration only. Exact layout of piping will be governed by site condition.

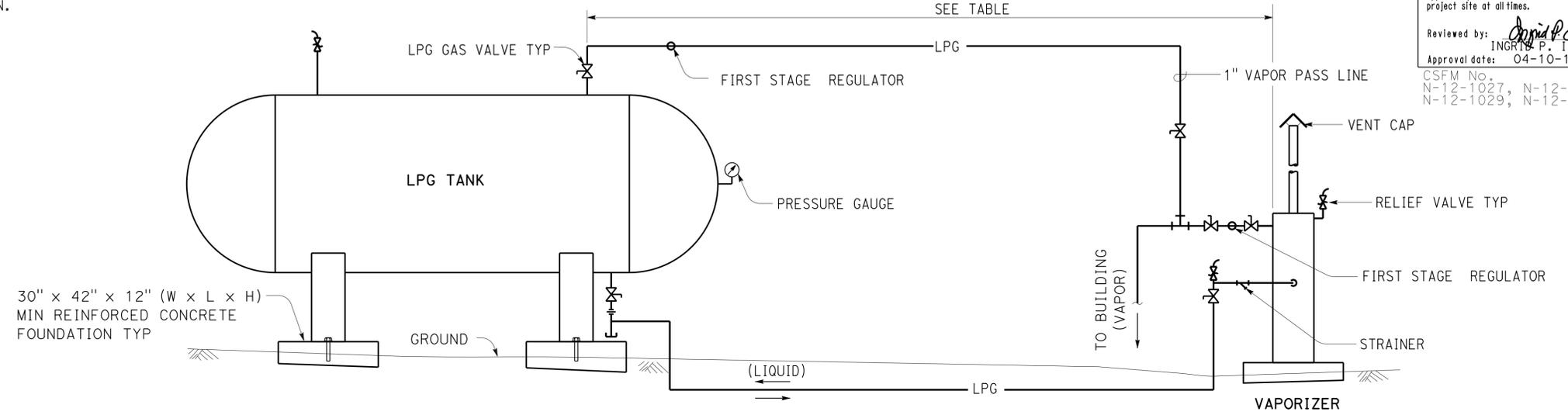
CALIFORNIA STATE FIRE MARSHAL APPROVED
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
 Reviewed by: *Inggris P. ICASIANO*
 INGRIS P. ICASIANO
 Approval date: 04-10-13
 CSFM No. N-12-1027, N-12-1028, N-12-1029, N-12-1030



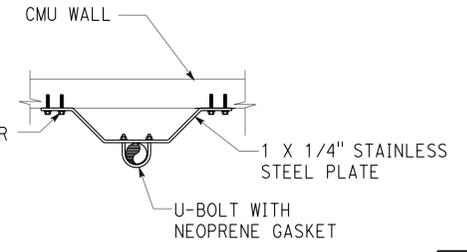
2 SECOND STAGE LPG REGULATOR
NO SCALE



3 EMERGENCY EYEWASH AND SHOWER
NO SCALE

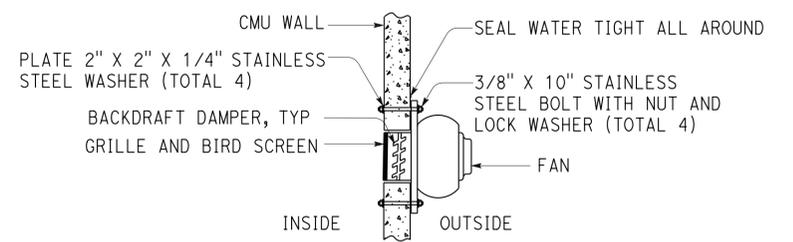


1 LPG TANK AND VAPORIZER
NO SCALE



4 PIPE BRACKET
NO SCALE

TABLE	
EXPOSURE	MINIMUM DISTANCE FROM VAPORIZER REQUIRED
STORAGE TANK	10 FEET
STORAGE TANK SHUTOFF	15 FEET
POINT OF TRANSFER	15 FEET
NEAREST IMPORTANT BUILDING OR GROUP OF BUILDINGS OR LINE OF ADJOINING PROPERTY WHICH MAY BE BUILT UPON (EXCEPT BUILDING IN WHICH VAPORIZER IS INSTALLED)	25 FEET



5 INDUSTRIAL VENTILATION FAN
NO SCALE

THIS DRAWING ACCURATE FOR MECHANICAL WORK ONLY

DESIGN BY SHAHJAHAN ALI	CHECKED JACK WHEELER	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. VARIOUS	DISTRICT 10 WASH RACKS PHASE 2 MECHANICAL DETAILS	SHEET
DETAILS BY A. CHEN	CHECKED JACK WHEELER		ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	POST MILE		M5-2
QUANTITIES BY SHAHJAHAN ALI	CHECKED JACK WHEELER		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3615 10120001811	DISREGARD PRINTS BEARING EARLIER REVISION DATES REVISION DATES (PRELIMINARY STAGE ONLY) 04-26-12 05-25-12 06-22-12 10-09-12 01-04-13	SHEET OF

TAEMWW Imperial Rev. 7/10
 FILE => M5_2.dgn
 DATE PLOTTED => 23-SEP-2013
 TIME PLOTTED => 10:13
 EA 0X2101
 M5_2.dgn

GRAPHIC SYMBOLS FOR ELECTRICAL WIRING AND LAYOUT DIAGRAMS

SYMBOL	DESCRIPTION
	POLE-TOP ELECTROLIER
	POLE-ARM ELECTROLIER
CEILING WALL	
	SURFACE FLUORESCENT, METAL HALIDE, LED, OR SODIUM VAPOR FIXTURE
	RECESSED FLUORESCENT, METAL HALIDE, LED, OR SODIUM VAPOR FIXTURE
	EXIT LIGHT
	SURFACE OR PENDANT INDIVIDUAL FLUORESCENT OR LED FIXTURE
	RECESSED INDIVIDUAL FLUORESCENT OR LED FIXTURE
	SURFACE OR PENDANT CONTINUOUS ROW FLUORESCENT OR LED FIXTURES
NOTE:	A LOWER CASE LETTER NEAR GRAPHIC LIGHTING FIXTURE SYMBOL DENOTES THAT FIXTURE IS CONTROLLED BY A SIMILARLY MARKED SWITCH, AN ALPHA-NUMERIC SYMBOL NEAR GRAPHIC LIGHTING FIXTURE SYMBOL DENOTES FIXTURE TYPE, (I=INCANDESCENT, F=FLUORESCENT, MH=METAL HALIDE, H=HIGH PRESSURE SODIUM VAPOR, L=LED), DESIGN TYPE, NUMBER OF LAMPS AND WATTAGE.
EXAMPLE :	(4) F2-2x32
	BLANK OUTLET
	JUNCTION BOX
	DROP CORD
	SINGLE RECEPTACLE OUTLET
	DUPLEX RECEPTACLE OUTLET
	DUPLEX RECEPTACLE OUTLET (WITH GFCI)
	DUPLEX RECEPTACLE OUTLET, WEATHERPROOF (WITH GFCI)
	SINGLE, SPECIAL PURPOSE RECEPTACLE OUTLET
	DUPLEX, SPECIAL PURPOSE RECEPTACLE OUTLET
	RANGE OUTLET
	CLOCK HANGER RECEPTACLE
	FAN HANGER RECEPTACLE
	FLOOR SINGLE RECEPTACLE OUTLET
	FLOOR DUPLEX RECEPTACLE OUTLET
	FLOOR SPECIAL PURPOSE OUTLET
	FLOOR RADIO OUTLET
	FLOOR TELEPHONE OUTLET
	MULTI-FLOOR OUTLET, 2 OR MORE GANG
	MULTI-OUTLET ASSEMBLY
	SWITCH AND SINGLE RECEPTACLE
	SWITCH AND DUPLEX RECEPTACLE
	RADIO OUTLET
	COMMUNICATION OUTLET
	SOUND SYSTEM LOUD SPEAKER OUTLET
	RADIO OUTLET
	TELEVISION OUTLET
	MICROPHONE OUTLET
	THERMOSTAT

SYMBOL	DESCRIPTION
S	SINGLE-POLE SWITCH
S2	DOUBLE-POLE SWITCH
S3	THREE-WAY SWITCH
S4	FOUR-WAY SWITCH
SD	AUTOMATIC DOOR
SK	KEY OPERATED SWITCH
SP	SWITCH AND PILOT LIGHT
SMC	MOMENTARY CONTACT SWITCH
SR	REMOTE CONTROL SWITCH
SWP	WEATHERPROOF SWITCH
SF	FAN SWITCH
SL	LIGHT SWITCH
SH	HEATER SWITCH
Svs	VARIABLE SPEED MOTOR CONTROL SWITCH
SCHLF	TWO TIMER SWITCHES, ONE SWITCH FOR LIGHT AND FAN AND ONE SWITCH FOR HEAT LAMP
S1	OCCUPANCY SENSOR WALL SWITCH, SINGLE LEVEL
S2	OCCUPANCY SENSOR WALL SWITCH, BILEVEL
SM	MOTION SENSOR SWITCH
ST	MANUAL MOTOR STARTING SWITCH, THERMAL OVERLOAD TYPE
SHP	MANUAL MOTOR STARTING SWITCH, WITHOUT OVERLOAD ELEMENT
Ts	TIMER SWITCH
	PUSHBUTTON
	PUSHBUTTON STATION, NC, WITH LOCKING DEVICE FOR OPEN
	PUSHBUTTON STATION MOTOR CONTROL
	BUZZER
	BELL
	COMBINATION BELL-BUZZER
	PRESSURE SWITCH
	CONTROL RELAY
	FLOW SWITCH
	PHOTOELECTRIC UNIT
	HAND DRYER NOZZLE
	HAND DRYER
	FLUSH-MOUNTED PANELBOARD AND CABINET
	SURFACE-MOUNTED PANELBOARD AND CABINET
	LIGHTING PANEL
	POWER PANEL
	COMBINATION LIGHTING AND POWER
	MOTOR CONTROLLER
	DISCONNECT SWITCH
—	CONDUIT CONCEALED IN CEILING OR WALL
----	CONDUIT CONCEALED IN FLOOR
-x-x-	CONDUIT EXPOSED
-#-#-	CROSS-LINES INDICATE NUMBER OF #12 AWG CONDUCTORS. LONGER CROSS-LINE INDICATES 1#12 AWG (G) FOR EQUIPMENT GROUNDING CONDUCTOR. NO CROSS-LINE INDICATES 2#12 WITH 1#12 (G) UNLESS OTHERWISE NOTED. ALL CONDUIT 1/2" UNLESS OTHERWISE NOTED.
A1,2	HOMERUN TO PANELBOARD, ARROWS INDICATE NUMBER OF CIRCUITS, LETTER DENOTES PANELBOARD, NUMERAL DENOTES CIRCUIT

SYMBOL	DESCRIPTION
—SM—	SURFACE METAL RACEWAY
(2) 1/2" PVC, 2#12	CONDUCTOR INFO (PER CONDUIT) CONDUIT TYPE CONDUIT SIZE NUMBER OF CONDUITS (NO NUMBER INDICATES ONE CONDUIT)
—MC—	CONDUIT, RIGID STEEL, UNDERGROUND
—PVC—	CONDUIT, POLYVINYL CHLORIDE, UNDERGROUND
	CONDUIT, FLEXIBLE
	CONDUIT, TURN UP
	CONDUIT, TURN DOWN
	CONDUIT SEAL, EXPLOSION-PROOF
	CONDUIT, EXPANSION JOINT
	ADAPTER, ONE TYPE CONDUIT TO ANOTHER
O	POLE
(TC)	TEMPERATURE SENSOR
(OC)	OCCUPANCY SENSOR
(P)	OCCUPANCY SENSOR POWER PACK
(P)	MANUAL PULL STATION
(AV)	AUDIO/VISUAL ALARM DEVICE
(H)	HEAT DETECTOR
(S)	SMOKE DETECTOR
(G)	GLASS BREAK DISCRIMINATOR
(C)	MAGNETIC CONTACT SWITCH-PEDESTRIAN DOOR
(C)	MAGNETIC CONTACT SWITCH-VEHICLE DOOR
(K)	KEYPAD FOR ALARM SYSTEM
(M)	COMBINATION DETECTOR (MICROWAVE/PASSIVE INFRARED)
	PULL BOX-LETTER INDICATES TYPE OF PULL BOX (E-ELECTRICAL, T-TELEPHONE, R-RADIO)
	PULL BOX (TRAFFIC-RATED)-LETTER INDICATES TYPE OF PULL BOX (E-ELECTRICAL, T-TELEPHONE, R-RADIO)
(CHLF)	COMBINATION HEAT, LIGHT, AND FAN UNIT
(A)	SECTION/ELEVATION LETTER
(EE-2)	SHEET NUMBER
(1)	DETAIL NUMBER
(EE-2)	SHEET NUMBER

REMODEL WORK

SYMBOL	DESCRIPTION
	EXISTING FLUORESCENT FIXTURE-TO REMAIN
	EXISTING FLUORESCENT FIXTURE-REMOVE
	EXISTING INCANDESCENT FIXTURE-TO REMAIN
	EXISTING INCANDESCENT FIXTURE-REMOVE
	EXISTING OUTLET-TO REMAIN
	EXISTING RECEPTACLE OUTLET-TO REMAIN
	EXISTING RECEPTACLE OUTLET-REMOVE
-E---E-	EXISTING CONDUIT AND CONDUCTORS-TO REMAIN UNLESS OTHERWISE NOTED
-x---x-	EXISTING CONDUIT AND CONDUCTORS-REMOVE
S	EXISTING SWITCH-TO REMAIN
X	EXISTING SWITCH-REMOVE
	EXISTING JUNCTION BOX-TO REMAIN
	EXISTING JUNCTION BOX-REMOVE

GRAPHIC SYMBOLS FOR ELECTRICAL DIAGRAMS

SYMBOL	DESCRIPTION
	CIRCUIT BREAKER, SINGLE-POLE
	CIRCUIT BREAKER, DOUBLE-POLE
	CIRCUIT BREAKER, THREE-POLE
GFCI	CIRCUIT BREAKER, WITH GROUND FAULT CIRCUIT INTERRUPTER
	CIRCUIT BREAKER, SINGLE-POLE, SWITCHED NEUTRAL
	CONTACT, NORMALLY OPEN
	CONTACT, NORMALLY CLOSED
	CONTACT, NORMALLY CLOSED, TIME DELAY CLOSING ON DE-ENERGIZING
	CONTACT, NORMALLY OPEN, TIME DELAY OPENING ON DE-ENERGIZING
	CONTACT, NORMALLY OPEN, TIME DELAY CLOSING ON ENERGIZING
	CONTACT, NORMALLY CLOSED, TIME DELAY OPENING ON ENERGIZING
	CONTACT, SINGLE-POLE, DOUBLE-THROW
	OPERATING COIL
	LIQUID LEVEL ACTUATED SWITCH, NORMALLY CLOSED
	LIQUID LEVEL ACTUATED SWITCH, NORMALLY OPEN
	PRESSURE ACTUATED SWITCH, NORMALLY CLOSED
	PRESSURE ACTUATED SWITCH, NORMALLY OPEN
	FLOW ACTUATED SWITCH, NORMALLY CLOSED
	FLOW ACTUATED SWITCH, NORMALLY OPEN
	TEMPERATURE ACTUATED SWITCH, NORMALLY CLOSED
	TEMPERATURE ACTUATED SWITCH, NORMALLY OPEN
	LIMIT SWITCH, NORMALLY CLOSED
	LIMIT SWITCH, NORMALLY OPEN
	PUSHBUTTON SWITCH, NORMALLY CLOSED
	PUSHBUTTON SWITCH, NORMALLY OPEN
	SWITCH, SINGLE-POLE
	SWITCH, SINGLE-POLE, DOUBLE-THROW
	SWITCH, DOUBLE-POLE
	SWITCH, DOUBLE-POLE, DOUBLE-THROW
	SWITCH, SINGLE-POLE, 3-POSITION
	THERMAL OVERLOAD
	FUSE
	RESISTOR
	VARIABLE RESISTOR
	TRANSFORMER WINDING
	GROUNDING ELECTRODE
	ENCLOSURE BOND
	PILOT LIGHT (A=AMBER, G=GREEN, R=RED)
(G)	GENERATOR
(M)	MOTOR
(F)	FAN MOTOR

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Cal	4,88	Var	112	187

Tommy F. Lee
REGISTERED ELECTRICAL ENGINEER
No. 18534
Exp. 12-31-14
ELEC
STATE OF CALIFORNIA

7-22-13
PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned 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: *Ignacio P. Icasiano*
INGRACIO P. ICASIANO
Approval date: 04-10-13
CSFM No. N-12-1027, N-12-1028, N-12-1029, N-12-1030

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY	DESIGN	BY Tommy F. Lee	CHECKED Catalino Enriquez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO.	DISTRICT 10 WASH RACKS PHASE 2	SHEET EE0-0
	DETAILS	BY Tommy F. Lee	CHECKED Tommy F. Lee		ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	VARIOUS POST MILE		
	QUANTITIES	BY Tommy F. Lee	CHECKED Catalino Enriquez		UNIT PROJECT NUMBER & PHASE 3600 10120001811	DISREGARD PRINTS BEARING EARLIER REVISION DATES		

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

EA 0X2101

23-SEP-2013 10:13 ee0_0.dgn

ABBREVIATIONS

A

A/C AIR CONDITIONING UNIT
 ACS AIR COMPRESSOR STARTER
 AFCI ARC FAULT CIRCUIT INTERRUPTER
 AI ANALOG INPUT
 AL ALARM LIGHT
 AO ANALOG OUTPUT
 AR ALARM RESET
 AVC AIR VOLUME CONTROLLER

B

BC BARE COPPER
 BD BUILDING DISCONNECT
 BP BOOSTER PUMP
 Brk BREAKER

C

Cat CATEGORY
 CC CENTER CHANNEL LIGHT
 CD CONTROL DISCONNECT
 CM CENTER MARGIN LIGHT
 COMM COMMUNICATION
 CR CONTROL RELAY
 CSW CURRENT SWITCH

D

DI DIGITAL INPUT
 DO DIGITAL OUTPUT
 DP DUPLEX PLUG RECEPTACLE
 DS DISCONNECT SWITCH

E

(E) EXISTING
 EF EXHAUST FAN
 EMS EXTINGUISHABLE MESSAGE SIGN

F

F FUSE or FAHRENHEIT
 FL FAILURE LIGHT
 FLA FLASHER
 Flex FLEXIBLE CONDUIT
 FLS FLOW SWITCH
 FR FAILURE RESET or FLAME RESISTANT
 FS FLOAT SWITCH
 ft FEET or FOOT

G

G GROUND
 GFCI GROUND FAULT CIRCUIT INTERRUPTER

I

IC IRRIGATION CONTROLLER
 ICC IRRIGATION CONTROLLER CABINET
 IR INDUCTION RELAY
 ISR INTRINSICALLY SAFE RELAY

J

JB JUNCTION BOX

L

L LIGHT or LENGTH
 LC LIGHTING CONTACTOR
 LCD LIQUID CRYSTAL DISPLAY
 LCP LIGHTING CONTROL PANEL
 LD LIGHT DISCONNECT
 LDCI LEAK DETECTOR CIRCUIT INTERRUPTER
 LL LIQUID LEVEL RELAY
 LLC LIQUID LEVEL CONTROLLER
 LP LIGHT PANEL
 LS LIGHT SWITCH
 LT LIGHT TRANSFORMER
 LTO LIGHT TRANSFORMER OVERLOAD

M

MB MAIN BREAKER
 MC METALLIC CONDUIT
 MCP MOTOR CIRCUIT PROTECTOR
 MCC MOTOR CONTROL CENTER
 MD MOTOR DISCONNECT
 MH MOUNTING HEIGHT
 MSB MAIN SWITCHBOARD

N

(N) NEW
 Nav NAVIGATIONAL LIGHTS
 NSW NEUTRAL SWITCHING BREAKER

O

O/C ON CENTER
 OL OVERLOAD

P

PB PULL BOX or PUSHBUTTON
 PCP PUMP CONTROL PANEL
 PD PUMP DISCONNECT
 PFR PHASE FAILURE RELAY
 PFRD PHASE FAILURE RELAY DISCONNECT
 PL PILOT LIGHT
 PS PRESSURE SWITCH
 PTS POWER TRANSFER SWITCH

R

RD RECEPTACLE DISCONNECT
 RES RESISTOR
 Rm ROOM
 RTB RADIO TERMINAL BOARD

S

S STARTER COIL
 Sch SCHEDULE
 SD SERVICE DISCONNECT
 SFR SEAL FAILURE RELAY
 SL SUMP LIGHT
 SPR STANDBY POWER RECEPTACLE
 Sq SQUARE
 SS SELECTOR SWITCH
 ST STARTER
 SV SOLENOID VALVE
 SWIM SLOW WEIGH-IN-MOTION

T

TB TERMINAL BLOCK
 TDR TIME DELAY RELAY
 TGLS TOGGLE SWITCH
 TM TIME METER
 TS TIMER SWITCH
 TSW TEST SWITCH
 TTb TELEPHONE TERMINAL BOARD

U

UPS UNINTERRUPTIBLE POWER SUPPLY

W

WIM WEIGH-IN-MOTION
 WLS WATER LEVEL SWITCH
 WP WEATHERPROOF
 WSMS WEIGH STATION MESSAGE SIGN

X

XFMR TRANSFORMER

SYMBOLS

∠ ANGLE
 ° DEGREES
 Δ DELTA
 ∅ PHASE
 ± PLUS OR MINUS

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: *Ignacio P. Casiano*
 IGNACIO P. CASIANO
 Approval date: 04-10-13
 CSFM No. N-12-1027, N-12-1028, N-12-1029, N-12-1030

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Cal	4,88	Var	113	187

Tommy F. Lee
 REGISTERED ELECTRICAL ENGINEER DATE 1-4-13
 No. 18534
 Exp. 12-31-14
 ELEC
 STATE OF CALIFORNIA

7-22-13
 PLANS APPROVAL DATE

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

PROJECT NOTES

1. Separate grounded (Neutral) conductor shall be used for each 120-volt circuit.
2. Homeruns to Panelboards shall be installed as shown on the plans. Homeruns shall not be combined.
3. A single insulated equipment grounding conductor, sized as required, shall be installed in each conduit run.

STANDARD NOTES

RLD Relocated equipment.

STANDARD PLANS

RSP ES-1A
 RSP ES-8A
 RSP ES-8B

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY

DESIGN	BY Tommy F. Lee	CHECKED Catalino Enriquez
DETAILS	BY Tommy F. Lee	CHECKED Tommy F. Lee
QUANTITIES	BY Tommy F. Lee	CHECKED Catalino Enriquez

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO.	VARIOUS
POST MILE	

DISTRICT 10 WASH RACKS PHASE 2

NOTES AND ABBREVIATIONS

SHEET **EE0-1**

TAEWW Imperial Rev. 3/12

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT PROJECT NUMBER & PHASE 3600 10120001811
 EA 0X2101

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)

5/12/12	11/9/12	1/4/13							
---------	---------	--------	--	--	--	--	--	--	--

SHEET OF

ee0_1.dgn

23-SEP-2013 10:14

CERTIFICATE OF COMPLIANCE (Page 1 of 4) OLTG-1C

Project Name: WOODFORDS MAINTENANCE STATION	Date: 11/7/12
Project Address: STATE ROUTE 88 WOODFORDS, CA 96120	Total Hardscape Illuminated Area: 600 sq ft

General Information
Phase of Construction: New Construction Addition Alteration

Documentation Author's Declaration Statement
I Certify that this Certificate of Compliance documentation is accurate and complete.

Name: **TOMMY F. LEE** Signature: *Tommy F. Lee*

Company: **CALIFORNIA DEPARTMENT OF TRANSPORTATION** Date: **11/7/12**

Address: **1801 30TH STREET, MS9-3/11H** If applicable: CEA #, CEPE #

City/State/Zip: **SACRAMENTO, CA 95816** Phone: **(916) 227-8376**

Principal Lighting Designer's Declaration Statement
I am eligible under Division 3 of the California Business and Professions Code to accept responsibility for the lighting design.
This Certificate of Compliance identifies the lighting features and performance specification required for compliance with Title 24, Pages 1 and 6 of the California Code of Regulations.
The design features represented on this Certificate of Compliance are consistent with the information provided to document this design on the other applicable compliance forms, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

Name: **TOMMY F. LEE** Signature: *Tommy F. Lee*

Company: **CALIFORNIA DEPARTMENT OF TRANSPORTATION** Phone: **(916) 227-8376**

Address: **1801 30TH STREET, MS9-3/11H** License #: **E 18534**

City/State/Zip: **SACRAMENTO, CA 95816** Date: **EXP 12-31-14**

Principal Lighting Designer's Declaration
 I Certify that this Certificate of Compliance documentation is accurate and complete, and accounts for all outdoor lighting power, including building mounted, pole mounted, as well as all other outdoor lighting designed for the site, and that Additional Lighting Power Allowances for Specific Applications or Additional Lighting Power Allowances for Ordinance Requirements have not been counted more than one time for the same area, in Accordance with Section 147 of the Standards.

Outdoor Lighting Mandatory Measures
Indicate location on building plans of Mandatory Measures Note Block: _____

LIGHTING COMPLIANCE FORMS & WORKSHEETS (check box if worksheet is included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms, please refer to the Nonresidential Manual published by the California Energy Commission.

OLTG-1C Certificate of Compliance. All 4 pages required on plans for all submittal.
 OLTG-2C (Page 1 of 3) Lighting Wattage Allowances for General Hardscape, Sales Frontage, or Ornamental Lighting. Optional on plans.
 OLTG-2C (Page 2 of 3) Lighting Wattage Allowances for Per Application or Per Area. Optional on plans.
 OLTG-2C (Page 3 of 3) Additional Lighting Power Allowance for Ordinance Requirements. Optional on plans.

CERTIFICATE OF COMPLIANCE (Page 2 of 4) OLTG-1C

COMPLIANCE FIXTURE/LIGHTING CONTROL SCHEDULE and FIELD INSPECTION CHECKLIST
Project Name: **WOODFORDS MAINTENANCE STATION** Date: **11/7/12**
INSTALLATION CERTIFICATE, OLTG-1-INST (Retain a copy and verify form is completed and signed.) Field Inspection
CERTIFICATE OF ACCEPTANCE, OLTG-2A (Retain a copy and verify form is completed and signed.) Field Inspection

Luminaire Schedule					Installed Watts					
A	B	C	D	E	F		G	H	I	
Name Or Item Tag	Luminaire Description See footnote below (i.e., lamp pole-top shoe-box 400 watt metal halide)	Cutoff Designation	Watts per Luminaire 1	Special Features	How wattage was determined		Number of Luminaires	Installed Watts (D x G)	Field Inspector 2	
					Default from NA-8	According to S 130 (d or e)			Pass	Fail
L2	Wall Mount, 74W LED, LED Engine Driver and PEC	FC	74	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	6	444	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
Enter total into OLTG-1C; Page 4 of 4; Row H; Total Installed Watts:								444		

1. Type of luminaire (i.e.: post top, wall pack, surface, shoe box); for non-incandescent luminaires, indicate nominal lamp wattage and lamp type (i.e.: fluorescent incandescent, HID); ballast type (i.e.: electronic or magnetic); number of lamps and number of ballast per luminaire. For incandescent luminaires the luminaire wattage listed in column D shall be the maximum relamping rated wattage on a permanent factory-installed label on the luminaire. NOT the wattage of the lamp (bulb) used, in accordance with Section 130 (d or e).
2. If Fail then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. Verify building plans if necessary.

EXEMPT LUMINAIRES Field Inspection
Name or Symbol Description of exempt luminaires in accordance with S 147

MANDATORY CONTROLS Field Inspection

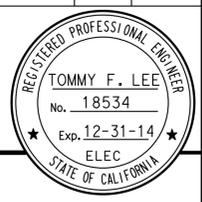
#	Description	Location	#	Description	Location
6	Photoelectric cell	EXTERIOR LIGHT			

SPECIAL FEATURES INSPECTION CHECKLIST (See Page 2 of 4 of OLTG-1C)
The local enforcement agency should pay special attention to the items specified in this checklist. These items require special written justification and documentation, and special verification. The local enforcement agency determines the adequacy of the justification, and may reject a building or design that otherwise complies base on the adequacy of the special justification and documentation submitted.

Field Inspector Notes or Discrepancies:

DIST. 10	COUNTY Alameda, Cal	ROUTE 4,88	POST MILES TOTAL PROJECT Var	SHEET NO. 114	TOTAL SHEETS 187
----------	---------------------	------------	------------------------------	---------------	------------------

Tommy F. Lee 1-4-13 REGISTERED ELECTRICAL ENGINEER DATE
7-22-13 PLANS APPROVAL DATE



The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned 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: *David P. Casiano* INGRID P. ICASIANO
Approval date: 04-10-13
CSFM No. N-12-1027, N-12-1028, N-12-1029, N-12-1030

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY	DESIGN BY Tommy F. Lee	CHECKED Catalino Enriquez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 5725	DISTRICT 10 WASH RACKS PHASE 2	WOODFORDS M.S.	OUTDOOR COMPLIANCE FORM 1	SHEET EE1-0.1 OF
	DETAILS BY Tommy F. Lee	CHECKED Tommy F. Lee		ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	POST MILE				
TAEMWW Imperial Rev. 3/12	QUANTITIES BY Tommy F. Lee	CHECKED Catalino Enriquez	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3600 10120001811	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)			

CERTIFICATE OF COMPLIANCE (Page 1 of 4) LTG-1C

Project Name: WOODFORDS MAINTENANCE STATION		Date: 11-07-2012
Project Address: STATE ROUTE 88 WOODFORDS, CA 96120	Climate Zone: 5	Building CFA: 971 SQ FT
Unconditioned Floor Area:		

General Information

Building Type:	<input checked="" type="checkbox"/> Nonresidential	<input type="checkbox"/> High-Rise Residential	<input type="checkbox"/> Hotel/Motel
	<input type="checkbox"/> Schools	<input type="checkbox"/> Relocatable Public Schools	<input checked="" type="checkbox"/> Conditioned Spaces
			<input type="checkbox"/> Unconditioned Spaces
Phase of Construction:	<input checked="" type="checkbox"/> New Construction	<input type="checkbox"/> Addition	<input type="checkbox"/> Alteration
Method of Compliance:	<input type="checkbox"/> Complete Building	<input checked="" type="checkbox"/> Area Category	<input type="checkbox"/> Tailored

Documentation Author's Declaration Statement

- I certify that this Certificate of Compliance documentation is accurate and complete.

Name: TOMMY F. LEE	Signature: <i>Tommy F. Lee</i>
Company: CALIFORNIA DEPARTMENT OF TRANSPORTATION	Date: 11-07-12
Address: 1801 30TH STREET, MS9-3/11H	If applicable: CEA # CEPE #
City/State/Zip: SACRAMENTO, CA 95816	Phone: (916) 227-8376

Principal Lighting Designer's Declaration Statement

- I am eligible under Division 3 of the California Business and Professions Code to accept responsibility for the lighting design.
- This Certificate of Compliance identifies the lighting features and performance specifications required for compliance with Title 24, Pages 1 and 6 of the California Code of Regulations.
- The design features represented on this Certificate of Compliance are consistent with the information provided to document this design on the other applicable compliance forms, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

Name: TOMMY F. LEE	Signature: <i>Tommy F. Lee</i>
Company: CALIFORNIA DEPARTMENT OF TRANSPORTATION	Phone: (916) 227-8376
Address: 1801 30TH STREET, MS9-3/11H	License # E 18534
City/State/Zip: SACRAMENTO, CA 95816	Date: EXP 12-31-14

Lighting Mandatory Measures
Indicate location on building plans of Mandatory Measures Note Block: This Sheet

LIGHTING COMPLIANCE FORMS & WORKSHEETS (Check box if worksheet is included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms, please refer to the Nonresidential Manual published by the California Energy Commission.

<input checked="" type="checkbox"/>	LTG-1C Pages 1 through 4	Certificate of Compliance. All pages required on plans for all submittals.
<input type="checkbox"/>	LTG-2C	Lighting Controls Credit Worksheet
<input type="checkbox"/>	LTG-3C	Indoor Lighting Power Allowance
<input type="checkbox"/>	LTG-4C Pages 1 through 4	Tailored Method Worksheet
<input type="checkbox"/>	LTG-5C Pages 1 and 2	Line Voltage Track Lighting Worksheet

2008 Nonresidential Compliance Forms July 2010

General Notes: 1. Forms LTG-1C, Parts 2 of 4 are shown on EE0-1.5.
2. Forms LTG-1C, Parts 3 of 4 and 4 of 4 are shown on EE0-1.6.
3. Other checked forms are available upon request.

CALIFORNIA ENERGY COMMISSION MANDATORY MEASURES:

BUILDING LIGHTING SHUT-OFF

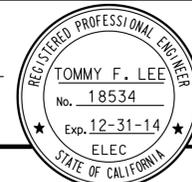
- Occupancy sensors for Wash Pit, Sump Pit and Equipment Room.

BUILDING EXTERIOR LIGHTING

- Photoelectric cell unit.
- All exterior luminaries shall have full cut-off type light distribution.

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Cal	4,88	Var	116	187

Tommy F. Lee
REGISTERED ELECTRICAL ENGINEER
DATE: 1-4-13



7-22-13
PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned 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: *Ingrid P. Casiano*
INGRIS P. CASIANO
Approval date: 04-10-13

CSFM No.
N-12-1027, N-12-1028,
N-12-1029, N-12-1030

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY

DESIGN	BY Tommy F. Lee	CHECKED Catalino Enriquez
DETAILS	BY Tommy F. Lee	CHECKED Tommy F. Lee
QUANTITIES	BY Tommy F. Lee	CHECKED Catalino Enriquez

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO. 5725
POST MILE

DISTRICT 10 WASH RACKS PHASE 2
WOODFORDS M.S.
INDOOR COMPLIANCE FORM 1

SHEET **EE1-0.3** OF

TAEMWW Imperial Rev. 3/12

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT PROJECT NUMBER & PHASE 3600 10120001811
EA 0X2101

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)
6/28/12 9/27/12 10/26/12 11/7/12 11/9/12 1/4/13

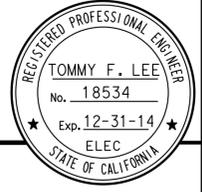
SHEET OF

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Cal	4,88	Var	119	187

<i>Tommy F. Lee</i>		1-4-13
REGISTERED ELECTRICAL ENGINEER	DATE	

7-22-13
PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned 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: *Ingrit P. Casiano*
 INGRIT P. ICASIANO
 Approval date: 04-10-13

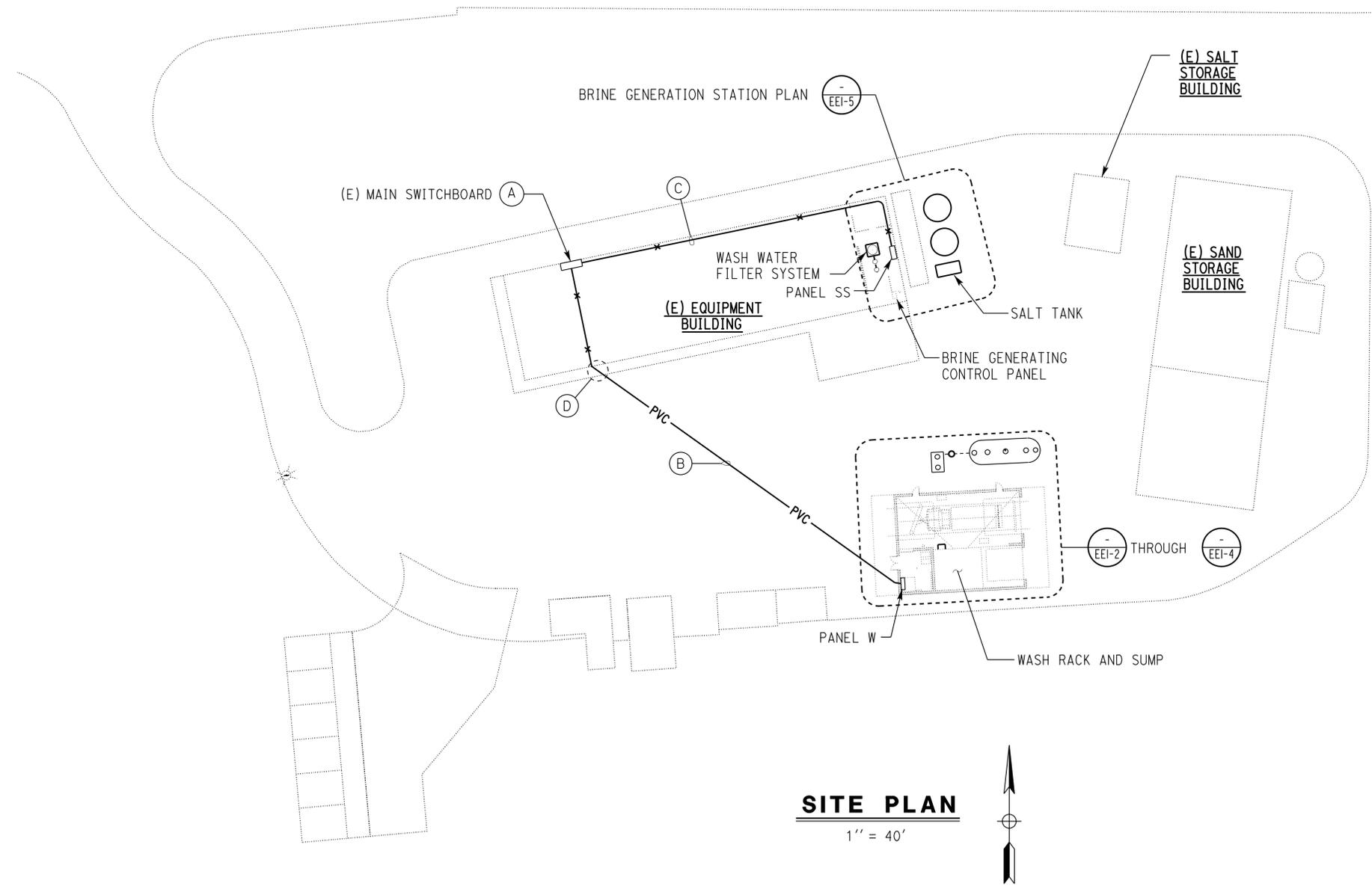
CSFM No.
 N-12-1027, N-12-1028,
 N-12-1029, N-12-1030

General Notes:

- For exact location of enclosed wash rack and sump, wash water filter system and brine generation system, see Architectural and Water and Wastewater sheets.
- Install adhesive warning signs on existing main switchboard, control panels, Panel SS, and Panel W. The warning sign must read as follow: "Warning: Arc Flash and Shock Hazard Appropriate PPE and Tools Required When Working On This Equipment (with graphic)".
- Existing underground utilities conduit run must be verified prior to trenching.

Notes:

- Existing main switchboard is Square D Company, Type CBMCS, 400 A, 240/120 V, 3-phase, 4-wire. Install 125 A, 3-pole circuit breaker and 125 A, 2-pole circuit breaker in available spaces.
- 2 1/2" C, 4#3/0, 1#4G.
- 1 1/2" C, 3#2/0, 1#4G.
- Core drill through existing wall and saw cut on existing slab to install electrical system. Install sealant around conduit and repave the slab to match existing slab as required.



SITE PLAN
 1" = 40'

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY

Paul Schreff
 DESIGN SUPERVISOR
Mark Chapp
 DESIGN ENGINEER

DESIGN	BY Tommy F. Lee	CHECKED Catalino Enriquez
DETAILS	BY Tommy F. Lee	CHECKED Tommy F. Lee
QUANTITIES	BY Tommy F. Lee	CHECKED Catalino Enriquez

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO.	5725
POST MILE	

DISTRICT 10 WASH RACKS PHASE 2
 WOODFORDS M.S.
 SITE PLAN

SHEET **EE1-1** OF

TAEMWW Imperial Rev. 3/12

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

0	1	2	3
---	---	---	---

UNIT PROJECT NUMBER & PHASE 3600 10120001811

DISREGARD PRINTS BEARING EARLIER REVISION DATES

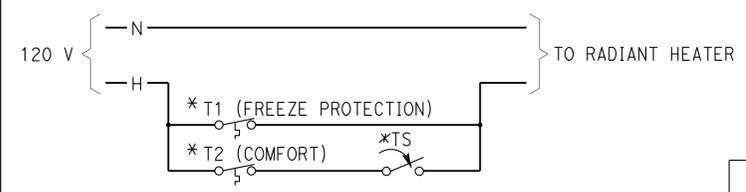
REVISION DATES (PRELIMINARY STAGE ONLY)					
4/11/12	11/9/12	12/18/12	1/7/13	1/29/13	

SHEET OF

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Cal	4,88	Var	120	187

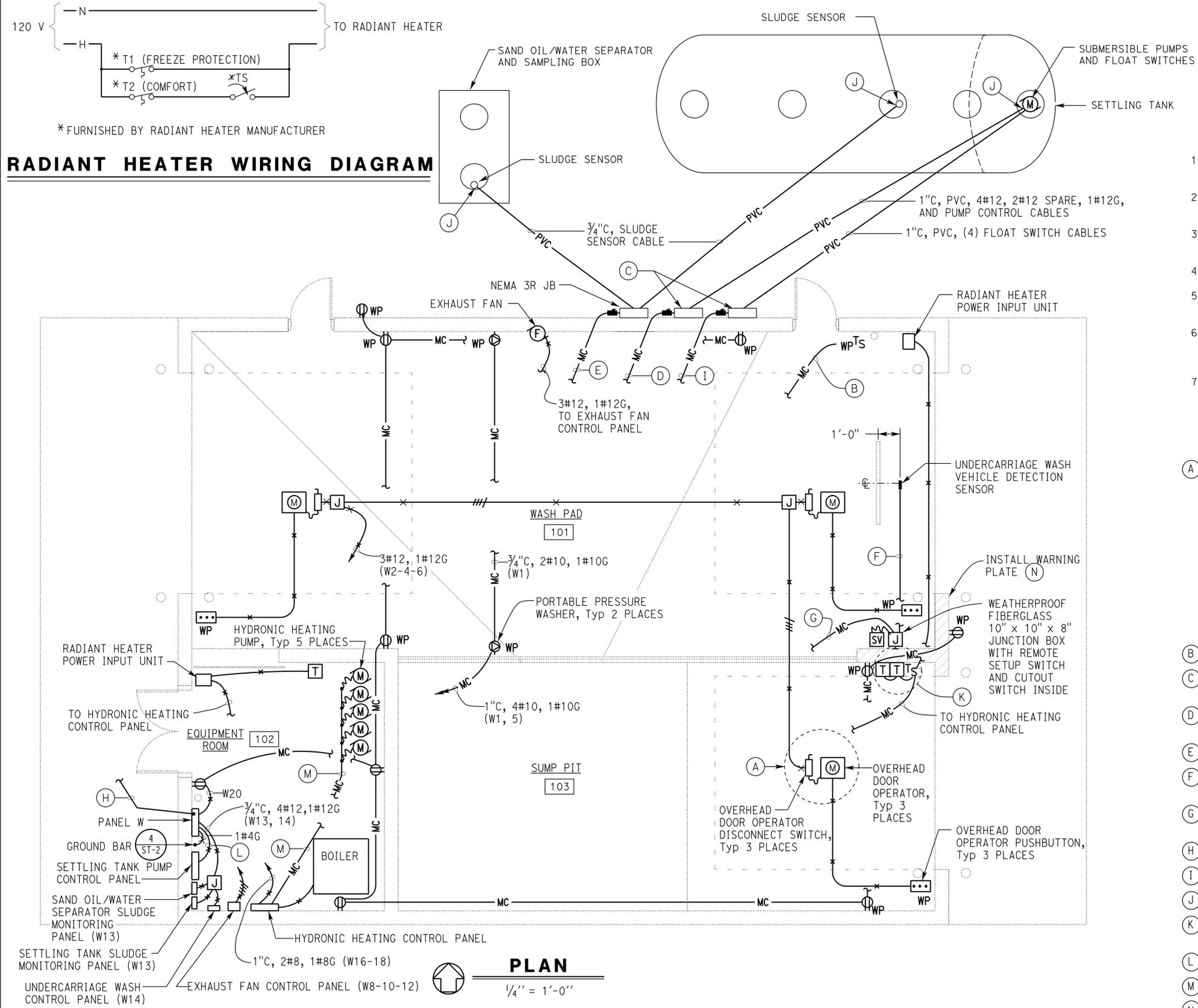
Tommy F. Lee		1-4-13
REGISTERED ELECTRICAL ENGINEER	DATE	
Approval date: 04-10-13		
Reviewed by: <i>Ing. P. Castano</i>		
Approval date: 04-10-13		
CSFM No. N-12-1027; N-12-1028; N-12-1029; N-12-1030		

7-22-13
PLANS APPROVAL DATE
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.



RADIANT HEATER WIRING DIAGRAM

* FURNISHED BY RADIANT HEATER MANUFACTURER



PLAN
1/4" = 1'-0"

GENERAL NOTES:

- For exact location of sand oil/water separator and sampling box, and settling tank, see Water and Wastewater sheets.
- For exact location of exhaust fan, hydronic heating pumps, and radiant heater, see Mechanical sheets.
- For "EXHAUST FAN WIRING DIAGRAM" and "WIRING DIAGRAM FOR UNDERCARRIAGE WASH VEHICLE DETECTION SYSTEM" and installation, see sheet EE5-8.
- For "SETTLING TANK PUMP CONTROL SCHEMATIC DIAGRAM", see sheet EE5-2.
- For exact location of portable pressure washer outlets and undercarriage wash vehicle detection sensor, see Architectural sheets.
- Inside Wash pad and Sump pit, exposed conduits and junction boxes must be PVC coated rigid steel. Also pushbuttons and selector switches must be factory sealed, heavy duty 600 VAC rated with corrosion-resistant housings.
- Provide sludge sensor cable, from sensor unit to the monitoring systems, via NEMA 3R junction box and splice the cable inside the box as needed. Coil minimum 5 feet of each sensor cable inside the box. See Water and Wastewater sheets for sludge sensor and cable specification.

NOTES:

- (A) Location of overhead door operator is shown arbitrarily only. Exact location depends upon unit furnished. Contractor shall furnish and install any additional conduits, wires and cables not shown but necessary for the automatic operation of the overhead door. All wires and cables shall be install in conduits. Install the following conduits for the overhead door operator system:
 - 1/2" C, 3#12, and 1#12G, inbetween the overhead door operator disconnect and the overhead door operator;
 - 1/2" C, control conductors as required, inbetween the overhead door operator pushbutton and overhead door operator;
 - 1/2" C, control conductors as required, inbetween the overhead door operator and reversing edge limit switch. Reversing edge limit switch is not shown for clarity;
 - 1/2" C, control conductors as required, inbetween the overhead door operator and the door operating chain limit switch. Limit switch is not shown for clarity.
- (B) 2#12, 1#12G, to Exhaust Fan Control Panel.
- (C) Weatherproof NEMA 3R junction box. Install power distribution type terminal blocks for terminating all conductors.
- (D) 1" C, MC, 4#12, 2#12 spare, 1#12G, and pump control cables to Settling Tank Pump Control Panel.
- (E) 3/4" C, MC, (2) sludge sensor cables, to sludge monitoring systems.
- (F) 2" C, PVC, with 3/4" C, non-metallic flexible liquidtight conduit with vehicle detection sensor.
- (G) 2" C, 4#12, 1#12G, and 5-conductor vehicle detection sensor cable, to Undercarriage Wash Control Panel.
- (H) 2 1/2" C, PVC, 4#3/0, 1#4G, to existing Main Switchboard. For continuation, see sheet EE1-1.
- (I) 1" C, MC, (4) float switch cables to Settling Tank Pump Control Panel.
- (J) Install liquidtight cable grip connector on conduit.
- (K) Install weatherproof type temperature sensors and timer switch. For "RADIANT HEATER WIRING DIAGRAM", see this sheet.
- (L) 1/2" C, 2#10, 1#10G (W17-19).
- (M) 1" C, 10#12, 1#12G.
- (N) 12" x 20" Warning Plate, see detail on EE5-8.

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY		DESIGN BY Tommy F. Lee	CHECKED Catalino Enriquez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 5725	DISTRICT 10 WASH RACKS PHASE 2		SHEET EE1-2	
		DETAILS BY Tommy F. Lee	CHECKED Tommy F. Lee				POST MILE	WOODFORDS M.S.	POWER PLAN	
		QUANTITIES BY Tommy F. Lee	CHECKED Catalino Enriquez							
TAEWW Imperial Rev. 3/12		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3	UNIT PROJECT NUMBER & PHASE 3600 10120001811	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)		
						4/13/12 5/25/12 11/9/12 12/19/12 1/4/13		SHEET OF		

23-SEP-2013 10:40 ea1_2.dgn

CALIFORNIA STATE FIRE MARSHAL
APPROVED
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approvals subject to field inspection. One set of approved plans shall be available on the project site at all times.
 Reviewed by: *Ingrid P. Casiano*
 INGRID P. CASIANO
 Approval date: 04-10-13
 CSFM No. N-12-1027, N-12-1028, N-12-1029, N-12-1030

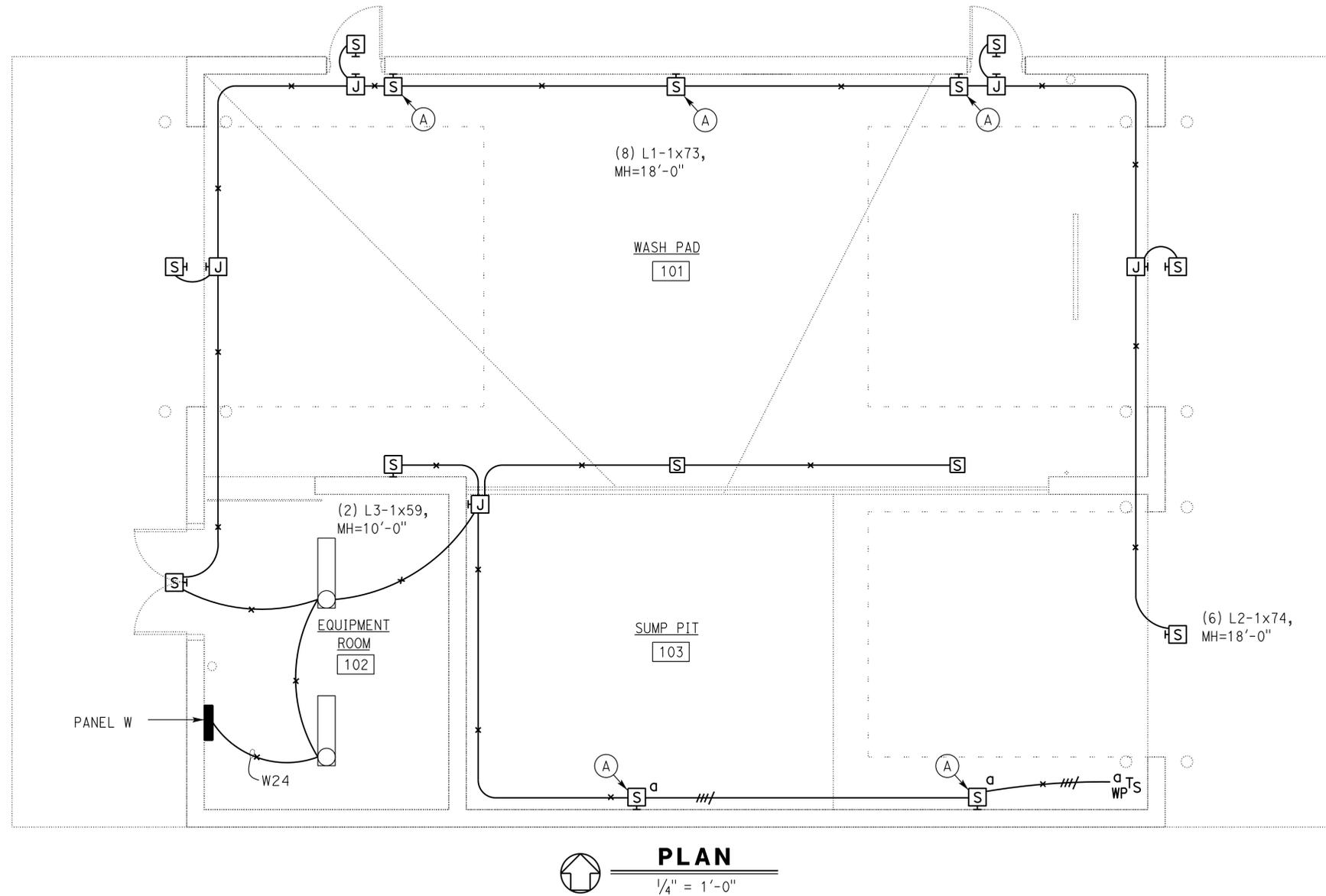
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Cal	4,88	Var	121	187

Tommy F. Lee
 REGISTERED ELECTRICAL ENGINEER
 No. 18534
 Exp. 12-31-14
 ELEC
 STATE OF CALIFORNIA

1-4-13
 DATE

7-22-13
 PLANS APPROVAL DATE

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

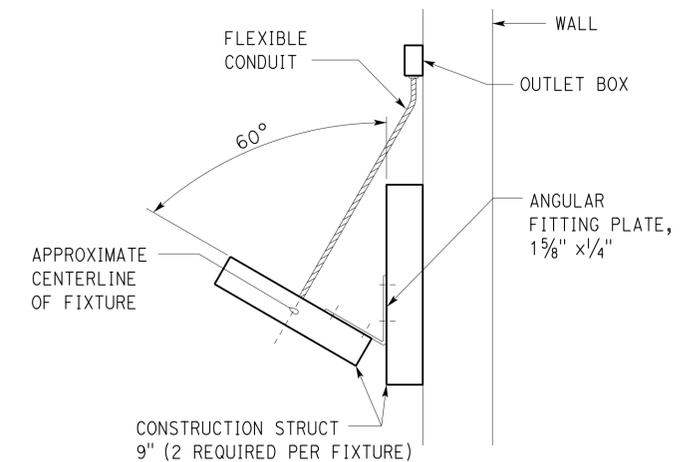


GENERAL NOTES:

- Exposed conduits and junction boxes inside wash pad and sump pit must be PVC coated rigid steel.
- For Lighting Fixture Schedule, see Electrical specification.

NOTE:

(A) For fixture installation, see Detail A on this sheet.



A **FIXTURE MOUNTING DETAIL**
 NO SCALE

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY

DESIGN	BY Tommy F. Lee	CHECKED Catalino Enriquez
DETAILS	BY Tommy F. Lee	CHECKED Tommy F. Lee
QUANTITIES	BY Tommy F. Lee	CHECKED Catalino Enriquez

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO.	5725
POST MILE	

DISTRICT 10 WASH RACKS PHASE 2

WOODFORDS M.S.
LIGHTING PLAN

SHEET **EE1-3**

TAEMWW Imperial Rev. 3/12

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



UNIT PROJECT NUMBER & PHASE 3600 10120001811

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)					
5/7/12	5/25/12	11/9/12	12/19/12	1/4/13	

SHEET OF

ee1_3.dgn

23-SEP-2013 08:23

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: *Ingrid P. Castano*
 INGRID P. CASTANO
 Approval date: 04-10-13

CSFM No.
 N-12-1027, N-12-1028,
 N-12-1029, N-12-1030

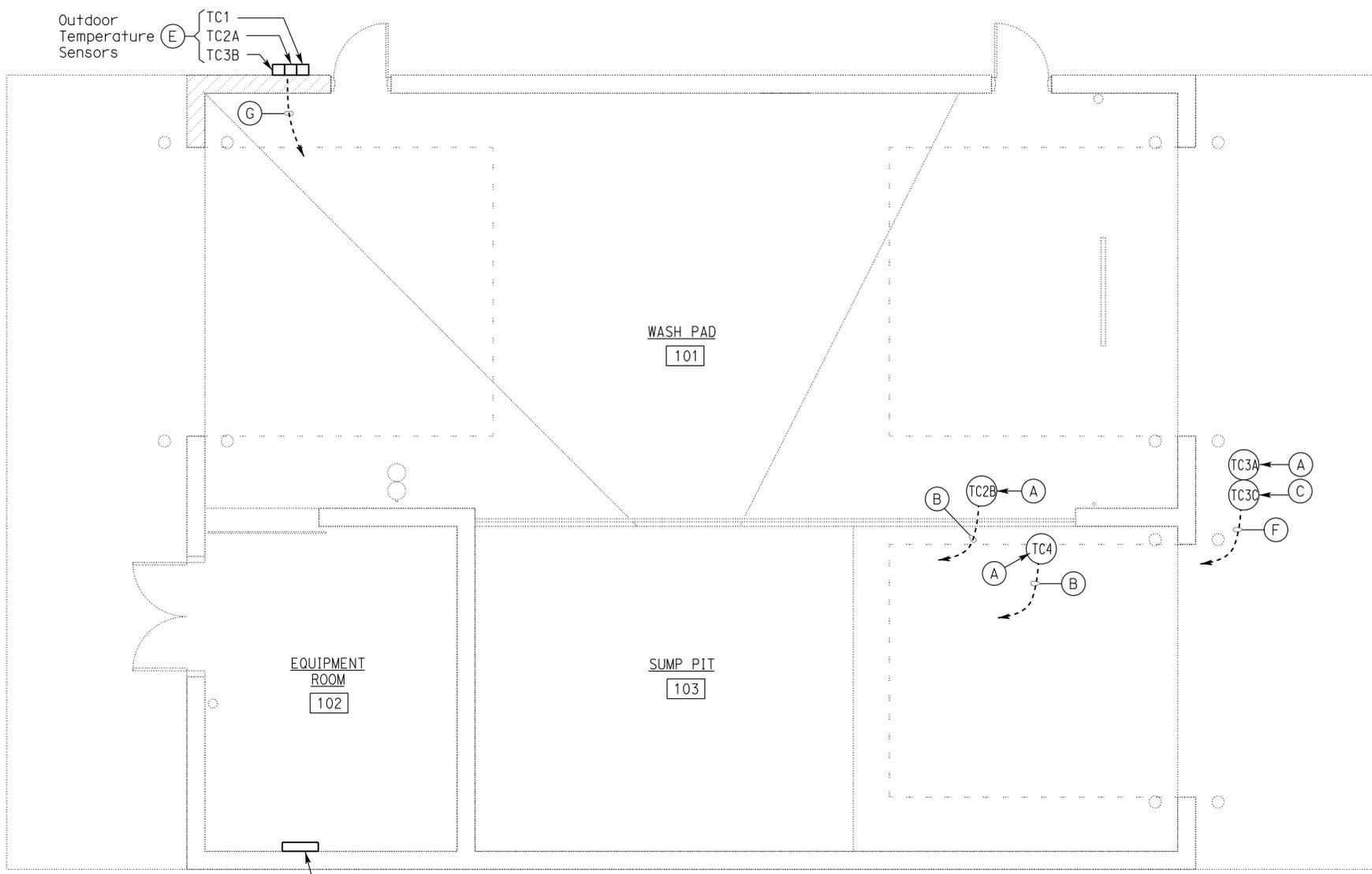
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Cal	4,88	Var	122	187

Tommy F. Lee
 REGISTERED ELECTRICAL ENGINEER
 No. 18534
 Exp. 12-31-14
 ELEC
 STATE OF CALIFORNIA

1-4-13
 DATE

7-22-13
 PLANS APPROVAL DATE

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



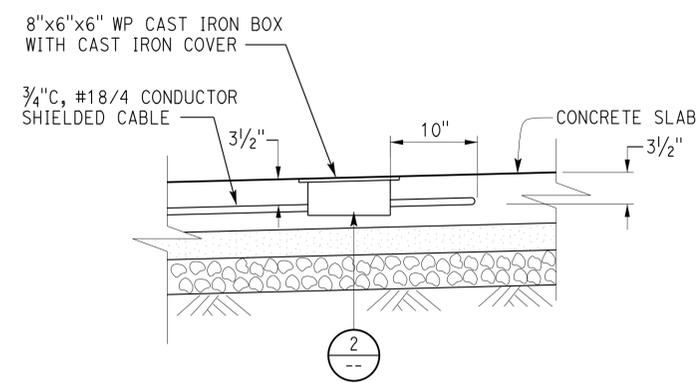
GENERAL NOTES:

1. Install sensors between heating tubes.
2. For hydronic heating schematic diagrams and details, see sheets EE5-3 through EE5-5.
3. All conduits for hydronic heating system must be rigid steel conduits.

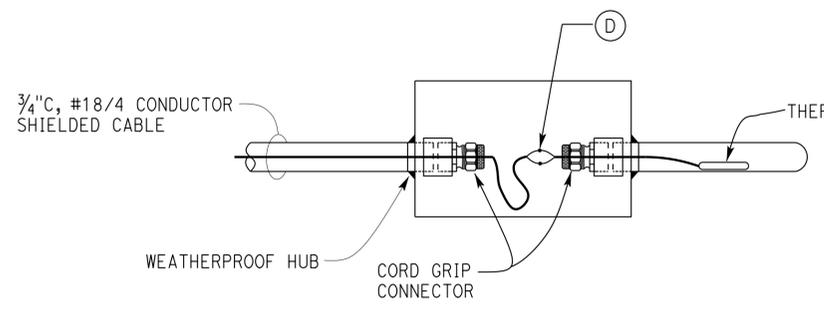
NOTES:

- (A) Thermowell with thermosensor, see Detail 1 on this sheet.
- (B) 3/4"C, with sensor cable, to Hydronic Heating Control Panel. Terminate sensor cable as required for operation.
- (C) Snow sensor, see Detail 3 on this sheet.
- (D) Solder shielded cable conductors to the pigtails of the sensor. Install clear heat shrink tubing over the soldered length.
- (E) Install outdoor sensors as recommended by manufacturer.
- (F) 1"C, snow sensor and slab sensor cables, to Hydronic Heating Control Panel. Terminate sensor cables as required for operation.
- (G) 1"C, (3) sensor cables to Hydronic Heating Control Panel. Terminate sensor cables as required for operation.

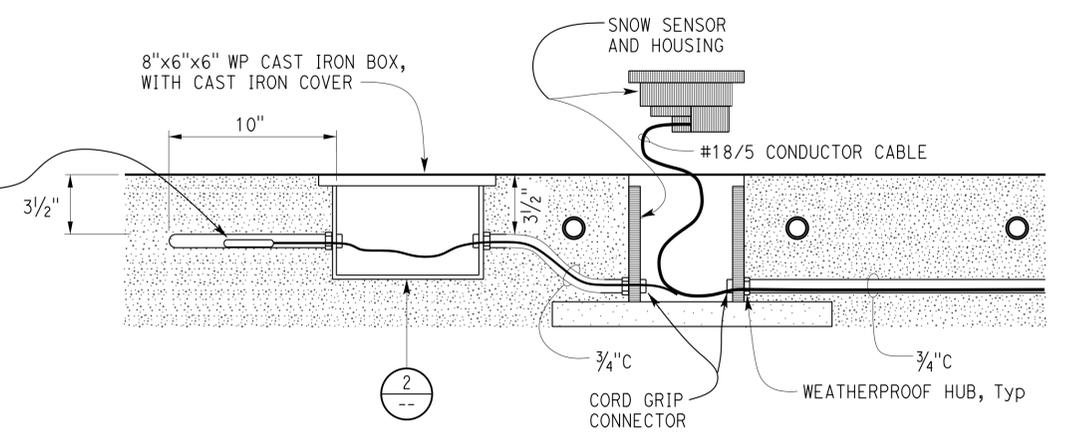
PLAN
 1/4" = 1'-0"



1 HEATED SLAB DETAIL
 NO SCALE



2 DETAIL
 NO SCALE



3 SENSOR CABLE INSTALLATION
 NO SCALE

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY	DESIGN	BY Tommy F. Lee	CHECKED Catalino Enriquez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	5725	DISTRICT 10 WASH RACKS PHASE 2 WOODFORDS M.S.	HYDRONIC HEATING SENSORS PLAN	SHEET	EE1-4					
	DETAILS	BY Tommy F. Lee	CHECKED Tommy F. Lee			POST MILE				REVISION DATES (PRELIMINARY STAGE ONLY)	2/7/12	11/9/12	12/19/12	1/4/13	SHEET	OF
	QUANTITIES	BY Tommy F. Lee	CHECKED Catalino Enriquez			UNIT PROJECT NUMBER & PHASE	3600 10120001811			DISREGARD PRINTS BEARING EARLIER REVISION DATES						

TAEMWW Imperial Rev. 3/12 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 UNIT PROJECT NUMBER & PHASE 3600 10120001811 DISREGARD PRINTS BEARING EARLIER REVISION DATES

EA 0X2101

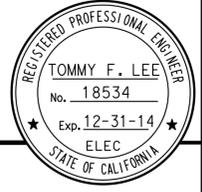
23-SEP-2013 08:23 ee1_4.dgn

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Cal	4,88	Var	123	187

Tommy F. Lee		1-4-13
REGISTERED ELECTRICAL ENGINEER	DATE	

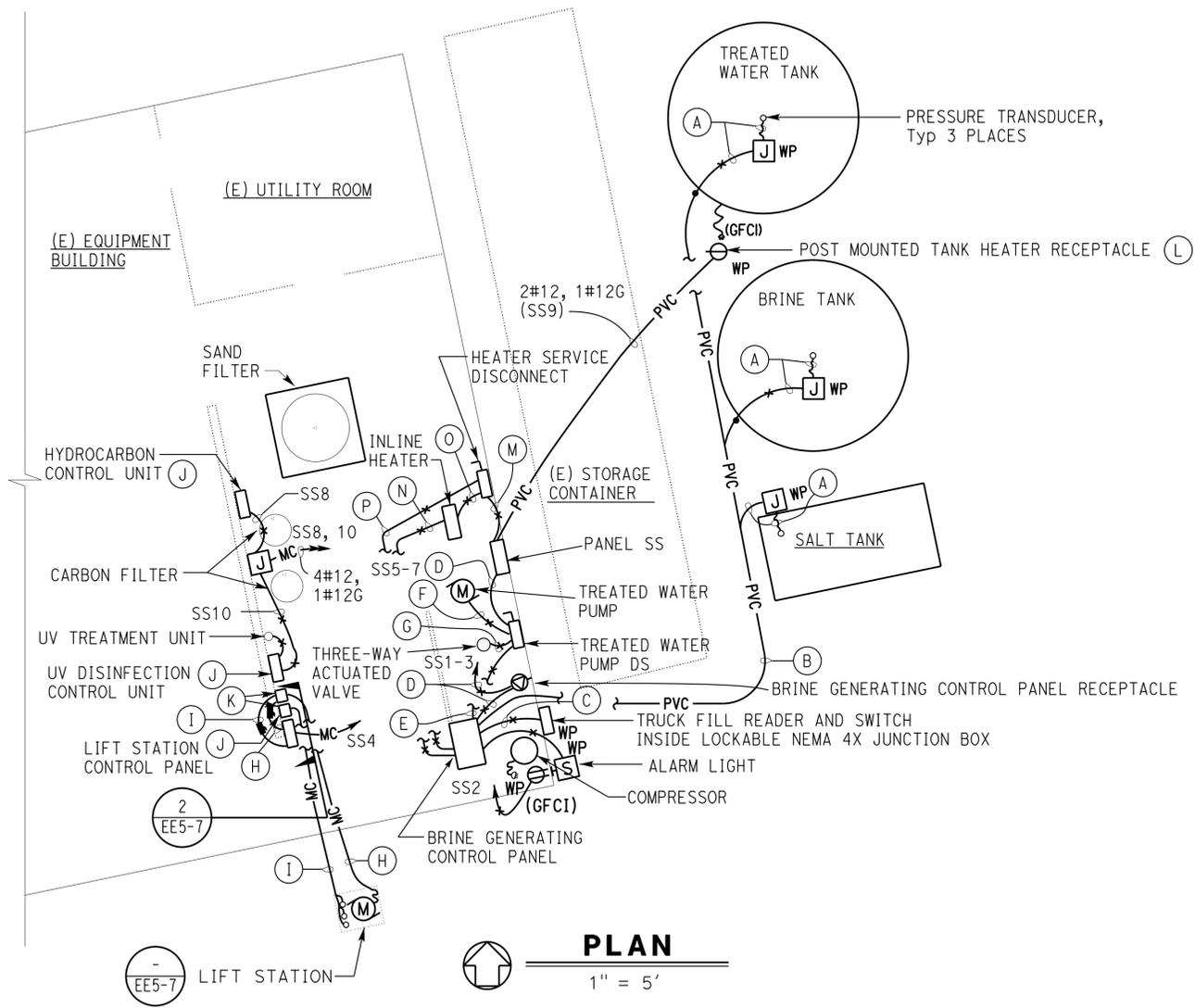
7-22-13
PLANS APPROVAL DATE

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



GENERAL NOTES:

1. Location of lift station and Inline heater are shown arbitrarily only. For exact location, see Water and Wastewater sheets.
2. For details on wall mounting of Hydrocarbon Control Panel and UV Disinfection Unit Control Panel, see Architectural sheets.
3. For "LIFT STATION PUMP CONTROL SCHEMATIC DIAGRAM" and details, see sheet EE5-7.
4. For Heater service disconnect specification, see Water and Wastewater specification.



NOTES:

- (A) Install pressure transducer cable conductor as recommended by Brine Generating Control Panel manufacturer.
- (B) 1" C, (3) pressure transducers cable conductors.
- (C) 1" C, 6#18, 1#18 spare, 1#12G, and innerduct with a shielded communication cable with three conductors.
- (D) 1/2" C, 2#10, 1#10G
- (E) 1/2" C, 3#18, 1#12G.
- (F) 1/2" C, 3#12, 1#12G.
- (G) 1/2" C, 5#18, 1#12G.
- (H) 1" C, 2#12, 2#12 spare, 1#12G, and pump motor control cables.
- (I) 1" C, (3) float switch cables.
- (J) Mount the control units and lift station on the wall as directed by the Engineer.
- (K) NEMA 3R junction box.
- (L) Provide weatherproof heavy duty diecast in use cover.
- (M) 3/4" C, 2#6, 1#6G (SS11-13).
- (N) 1/2" C, a shielded communication cable with three conductors.
- (O) 1/2" C, 2#6, 1#8G.
- (P) 1/2" C, 2#12, 1#12G.

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: *Ingrid P. Casiano*
 INGRID P. CASIANO
 Approval date: 04-10-13
 CSFM No. N-12-1027, N-12-1028, N-12-1029, N-12-1030

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY	DESIGN BY Tommy F. Lee	CHECKED Catalino Enriquez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 5725	DISTRICT 10 WASH RACKS PHASE 2	SHEET EE1-5
	DETAILS BY Tommy F. Lee	CHECKED Tommy F. Lee			POST MILE		
QUANTITIES BY Tommy F. Lee	CHECKED Catalino Enriquez	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3			UNIT PROJECT NUMBER & PHASE 3600 10120001811	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)

23-SEP-2013 08:24 ee1_5.dgn

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Cal	4,88	Var	124	187

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.

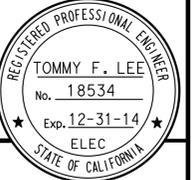
Reviewed by: *Ingrid P. Castano*
INGRID P. CASTANO
Approval date: 04-10-13

CSFM No.
N-12-1027, N-12-1028,
N-12-1029, N-12-1030

Tommy F. Lee 1-4-13
REGISTERED ELECTRICAL ENGINEER DATE

7-22-13
PLANS APPROVAL DATE

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



MAIN: 125 A MAIN BREAKER
VOLTS: 240/120 V, SINGLE PHASE, 3-WIRE

PANEL SS

FEEDER SIZE: 3#2/0, 1#4G
LOCATION: EQUIPMENT BAY

DESCRIPTION	AMPERES		Brk	Ckt	A	C	Ckt	Brk	AMPERES		DESCRIPTION
	A	C							A	C	
BRINE GENERATING CONTROL PANEL	30		30/2	1	•		2	20/1	16		COMPRESSOR
		30		3		•	4			10	LIFT STATION
TREATED WATER PUMP	17		30/2	5	•		6		-		SPARE
		17		7		•	8		2		HYDROCARBON CONTROL PANEL
TREATED WATER TANK HEATER	1.5		20/1	9	•		10		1		UV DISINFECTION UNIT
INLINE HEATER		50	50/2	11	•		12		-		SPARE
	50			13	•		14		-		
SPARE		-	20/1	15	•		16		-		
	-			17	•		18		-		
	-			19	•		20		-		
	-			21	•		22		-		SPACE
	-			23	•		24		-		
SPACE				25	•		26		-		
				27	•		28		-		
				29	•		30		-		

A	C	TOTAL CONNECTED LOAD (AMPERES PER PHASE)
114.5	109	

MAIN: 125 A MAIN BREAKER
VOLTS: 240/120 V, 3 PHASE, 4-WIRE

PANEL W

FEEDER SIZE: 4#3/0, 1#4G
LOCATION: ELECTRICAL ROOM AT WASH RACK

DESCRIPTION	AMPERES			Brk	Ckt	A	B	C	Ckt	Brk	AMPERES			DESCRIPTION
	A	B	C								A	B	C	
PORTABLE PRESSURE WASHER	20			30/1	1	•			2		7			DOOR OPERATORS
SPACE					3		•		4	15/3		7		
PORTABLE PRESSURE WASHER			20	30/1	5			•	6			7		
SPARE				30/3	7			•	8		2.2			EXHAUST FAN
					9			•	10	15/3		2.2		
SLUDGE MONITORING SYSTEM	3			20/1	13	•			14	20/1	5			UNDERCARRIAGE WASH VEHICULAR SYSTEM
SPACE					15		•		16			30		HYDRONIC HEATING CONTROL PANEL
SETTLING TANK CONTROL PANEL			10	30/2	17			•	18	40/2		30		
	10				19	•			20	20/1	15			RECEPTACLES
SPACE					21		•		22					SPACE
RADIANT HEATER ELEC-MECH/WASH PIT			9.6	20/1	23			•	24	20/1		9		LIGHTING
SPARE					25	•			26		-			SPARE
SPACE					27		•		28					SPACE
SPACE					29		•		30					

*GFCI TYPE CIRCUIT BREAKER

A	B	C	TOTAL CONNECTED LOAD (AMPERES PER PHASE)
62.2	39.2	87.8	

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY

DESIGN	BY Tommy F. Lee	CHECKED Catalino Enriquez
DETAILS	BY Tommy F. Lee	CHECKED Tommy F. Lee
QUANTITIES	BY Tommy F. Lee	CHECKED Catalino Enriquez

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO. 5725
POST MILE WOODFORDS M.S.

DISTRICT 10 WASH RACKS PHASE 2
PANEL SCHEDULES

SHEET EE1-6 OF

TAEMWW Imperial Rev. 3/12

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT PROJECT NUMBER & PHASE 3600 10120001811

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)			
4/11/12	11/9/12	1/4/13	1/29/13

SHEET OF

23-SEP-2013 08:24 ee1_6.dgn

CERTIFICATE OF COMPLIANCE (Page 1 of 4) LTG-1C

Project Name: PEDDLER HILL MAINTENANCE STATION		Date: 11-07-2012
Project Address: STATE ROUTE 88 PIONEER, CA 95666	Climate Zone: 5	Building CFA: 971 SQ FT
		Unconditioned Floor Area:

General Information			
Building Type:	<input checked="" type="checkbox"/> Nonresidential	<input type="checkbox"/> High-Rise Residential	<input type="checkbox"/> Hotel/Motel
	<input type="checkbox"/> Schools	<input type="checkbox"/> Relocatable Public Schools	<input checked="" type="checkbox"/> Conditioned Spaces
			<input type="checkbox"/> Unconditioned Spaces
Phase of Construction:	<input checked="" type="checkbox"/> New Construction	<input type="checkbox"/> Addition	<input type="checkbox"/> Alteration
Method of Compliance:	<input type="checkbox"/> Complete Building	<input checked="" type="checkbox"/> Area Category	<input type="checkbox"/> Tailored

Documentation Author's Declaration Statement
 • I certify that this Certificate of Compliance documentation is accurate and complete.

Name: TOMMY F. LEE	Signature: <i>Tommy F. Lee</i>
Company: CALIFORNIA DEPARTMENT OF TRANSPORTATION	Date: 11-07-12
Address: 1801 30TH STREET, MS9-3/11H	If applicable: CEA # CEPE #
City/State/Zip: SACRAMENTO, CA 95816	Phone: (916) 227-8376

Principal Lighting Designer's Declaration Statement
 • I am eligible under Division 3 of the California Business and Professions Code to accept responsibility for the lighting design.
 • This Certificate of Compliance identifies the lighting features and performance specifications required for compliance with Title 24, Pages 1 and 6 of the California Code of Regulations.
 • The design features represented on this Certificate of Compliance are consistent with the information provided to document this design on the other applicable compliance forms, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

Name: TOMMY F. LEE	Signature: <i>Tommy F. Lee</i>
Company: CALIFORNIA DEPARTMENT OF TRANSPORTATION	Phone: (916) 227-8376
Address: 1801 30TH STREET, MS9-3/11H	License # E 18534
City/State/Zip: SACRAMENTO, CA 95816	Date: EXP 12-31-14

Lighting Mandatory Measures
 Indicate location on building plans of Mandatory Measures Note Block: This Sheet

LIGHTING COMPLIANCE FORMS & WORKSHEETS (Check box if worksheet is included)	
<input checked="" type="checkbox"/> LTG-1C Pages 1 through 4	Certificate of Compliance. All pages required on plans for all submittals.
<input type="checkbox"/> LTG-2C	Lighting Controls Credit Worksheet
<input type="checkbox"/> LTG-3C	Indoor Lighting Power Allowance
<input type="checkbox"/> LTG-4C Pages 1 through 4	Tailored Method Worksheet
<input type="checkbox"/> LTG-5C Pages 1 and 2	Line Voltage Track Lighting Worksheet

2008 Nonresidential Compliance Forms July 2010

General Notes: 1. Forms LTG-1C, Parts 2 of 4 are shown on EE0-1.5.
 2. Forms LTG-1C, Parts 3 of 4 and 4 of 4 are shown on EE0-1.6.
 3. Other checked forms are available upon request.

CALIFORNIA ENERGY COMMISSION MANDATORY MEASURES:

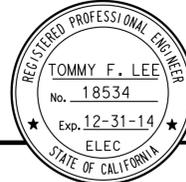
BUILDING LIGHTING SHUT-OFF

- Occupancy sensors for Wash Pit, Sump Pit and Equipment Room.

BUILDING EXTERIOR LIGHTING

- Photoelectric cell unit.
- All exterior luminaries shall have full cut-off type light distribution.

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Cal	4,88	Var	127	187

	Tommy F. Lee REGISTERED ELECTRICAL ENGINEER No. 18534 Exp. 12-31-14 DATE: 1-4-13
PLANS APPROVAL DATE: 7-22-13	

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned 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: *David P. Casiano*
 INGRID P. CASIANO
 Approval date: 04-10-13
 CSFM No. N-12-1027, N-12-1028, N-12-1029, N-12-1030

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY	DESIGN	BY Tommy F. Lee	CHECKED Catalino Enriquez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	DISTRICT 10 WASH RACKS PHASE 2		SHEET									
	DETAILS	BY Tommy F. Lee	CHECKED Tommy F. Lee			5729	PEDDLER HILL M.S.		EE2-0.3									
	QUANTITIES	BY Tommy F. Lee	CHECKED Catalino Enriquez				INDOOR COMPLIANCE FORM 1		OF									
TAEMWW Imperial Rev. 3/12	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				UNIT PROJECT NUMBER & PHASE	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)										
	0 1 2 3				3600 10120001811	→		6/28/12	9/27/12	10/26/12	11/7/12	11/7/12	12/7/12	1/4/13				
					EA 0X2101					ee2_0_3.dgn								

23-SEP-2013 08:24

NOTES:

- (A) Location of overhead door operator is shown arbitrarily only. Exact location depends upon unit furnished. Contractor shall furnish and install any additional conduits, wires, and cables not shown but necessary for the automatic operation of the overhead door. All wires and cables shall be installed in conduits. Install the following conduits for the overhead door operator system:
 - 1/2" C, 3#12 and 1#12G, inbetween the overhead door operator disconnect and the overhead door operator;
 - 1/2" C, control conductors as required, inbetween the overhead door operator pushbutton and overhead door operator;
 - 1/2" C, control conductors as required, inbetween the overhead door operator and reversing edge limit switch. Reversing edge limit switch is not shown for clarity.
 - 1/2" C, control conductors as required, inbetween the overhead door operator and the door operating chain limit switch. Limit switch is not shown for clarity.

- (B) 2#12, 1#12G, to Exhaust Fan Control Panel.
- (C) Weatherproof NEMA 3R junction box. Install power distribution type terminal blocks for terminating all conductors.

NOTES (Continued):

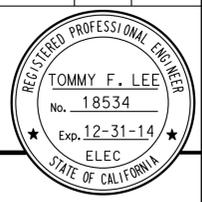
- (D) 1" C, MC, 4#12, 2#12 spare, 1#12G, and pump control cables, to Settling Tank Pump Control Panel.
- (E) 3/4" C, (2) sludge sensor cables to sludge monitoring systems.
- (F) 2" C, PVC, with 3/4" C, non-metallic flexible liquidtight conduit with vehicle detection sensor.
- (G) 2" C, 4#12, 1#12G, and 5-conductor vehicle detection sensor cable to Undercarriage Wash Control Panel.
- (H) 2 1/2" C, MC, 4#4/0, 1#4G.
- (I) 1" C, MC, (4) float switch cables, to Settling Tank Pump Control Panel.

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Cal	4,88	Var	131	187

Tommy F. Lee
REGISTERED ELECTRICAL ENGINEER
1-4-13 DATE

7-22-13
PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned 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: *Ingrid P. Castano*
INGRID P. CASTANO
Approval date: 04-10-13

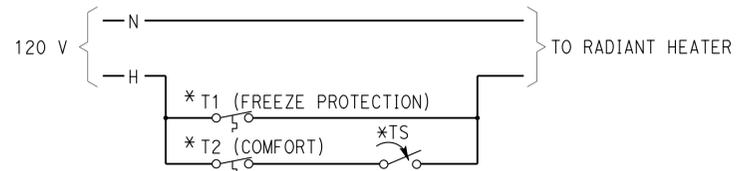
CSFM No. N-12-1027, N-12-1028, N-12-1029, N-12-1030

NOTES (Continued):

- (J) Install liquidtight cable grip connector on conduit.
- (K) 3" C, PVC, 4#4/0, 1#4G, to Main Switchboard. For continuation, see sheet EE2-1.
- (L) 3/4" C, MC, 1#6G.
- (M) Install weatherproof type temperature sensors and timer switch. For "RADIANT HEATER WIRING DIAGRAM", see this sheet.
- (N) 1/2" C, 2#10, 1#10G (W17-19).
- (O) 1" C, 10#12, 1#12G.
- (P) Bond neutral bus to ground bus.
- (Q) 3" C, PVC, 3#2/0, 1#4G. For continuation, see sheet EE2-1.
- (R) 12" x 20" Warning Plate, see detail on EE5-8.

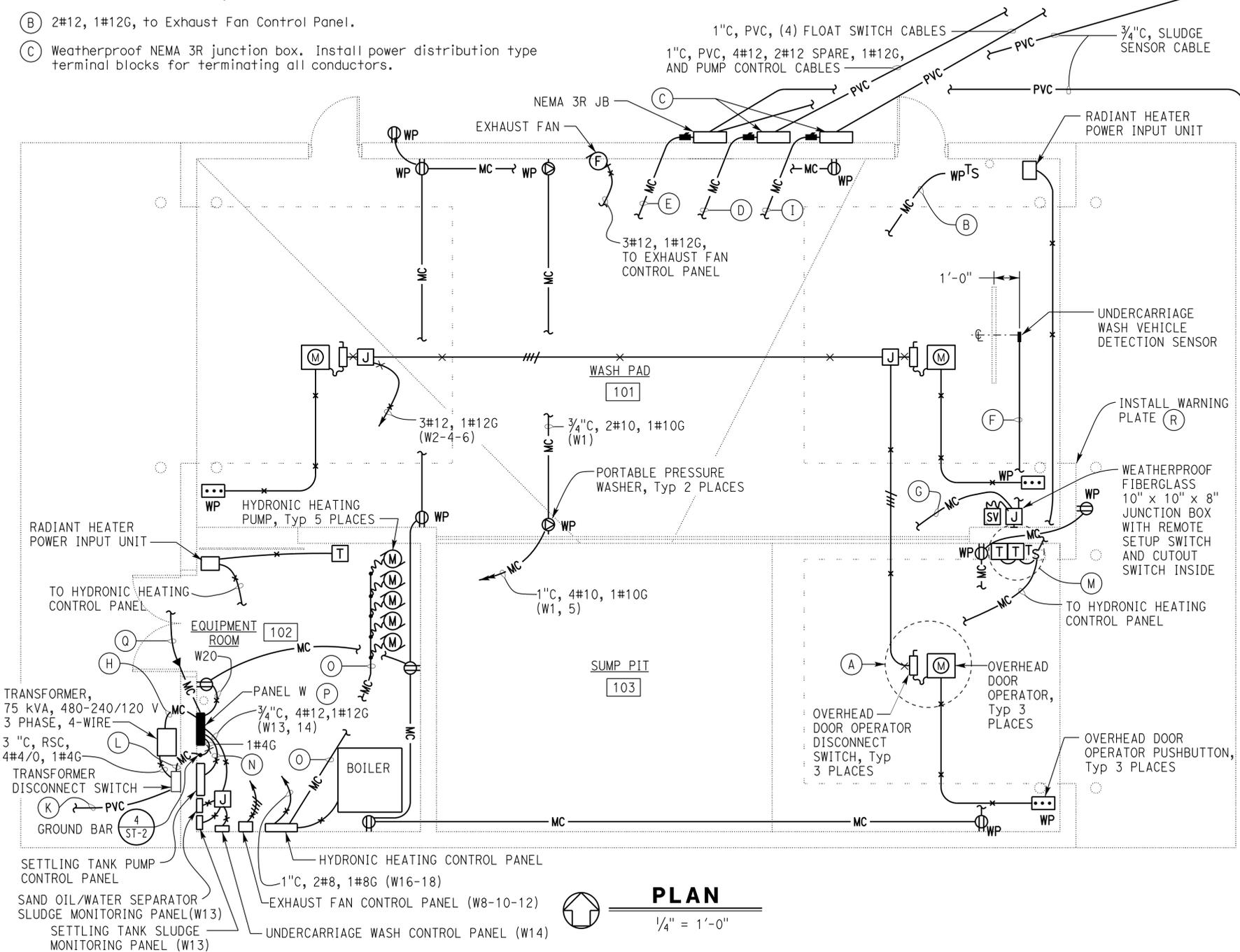
GENERAL NOTES:

1. For exact location of sand oil/Water separator and sampling box, and settling tank, see Water and Wastewater sheets.
2. For exact location of exhaust fan, hydronic heating pumps, and radiant heater, see Mechanical sheets.
3. For "EXHAUST FAN WIRING DIAGRAM" and "WIRING DIAGRAM FOR UNDERCARRIAGE WASH VEHICLE DETECTION SENSOR" and installation, see sheet EE5-8.
4. For "SETTLING TANK PUMP CONTROL SCHEMATIC DIAGRAM", see sheet EE5-2.
5. For exact location of portable pressure washer outlets and undercarriage wash vehicle detection sensor, see Architectural sheets.
6. Inside Wash pad and Sump pit, exposed conduits and junction boxes must be PVC coated rigid steel. Also pushbuttons and selector switches must be factory sealed, heavy duty 600 VAC rated with corrosion-resistant housings.
7. Provide sludge sensor cable, from sensor unit to the monitoring systems, via NEMA 3R junction box, and splice the cable inside the box as needed. Coil minimum 5 feet of each sensor cable inside the box. See Water and Wastewater for sludge sensor and cable specification.



*Furnished by radiant heater manufacturer

RADIANT HEATER WIRING DIAGRAM



PLAN

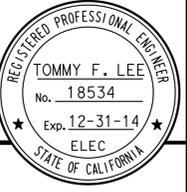
1/4" = 1'-0"

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY		DESIGN BY Tommy F. Lee	CHECKED Catalino Enriquez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 5729	DISTRICT 10 WASH RACKS PHASE 2		SHEET EE2-2
		DETAILS BY Tommy F. Lee	CHECKED Tommy F. Lee		ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	POST MILE	PEDDLER HILL M.S.	POWER PLAN	
		QUANTITIES BY Tommy F. Lee	CHECKED Catalino Enriquez		UNIT PROJECT NUMBER & PHASE 3600 10120001811	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	
TAEWW Imperlal Rev. 3/12		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3	4/7/12 5/25/12 11/7/12 12/7/12 1/7/13 1/29/13		SHEET OF		

23-SEP-2013 13:16 ee2_2.dgn

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Cal	4,88	Var	132	187

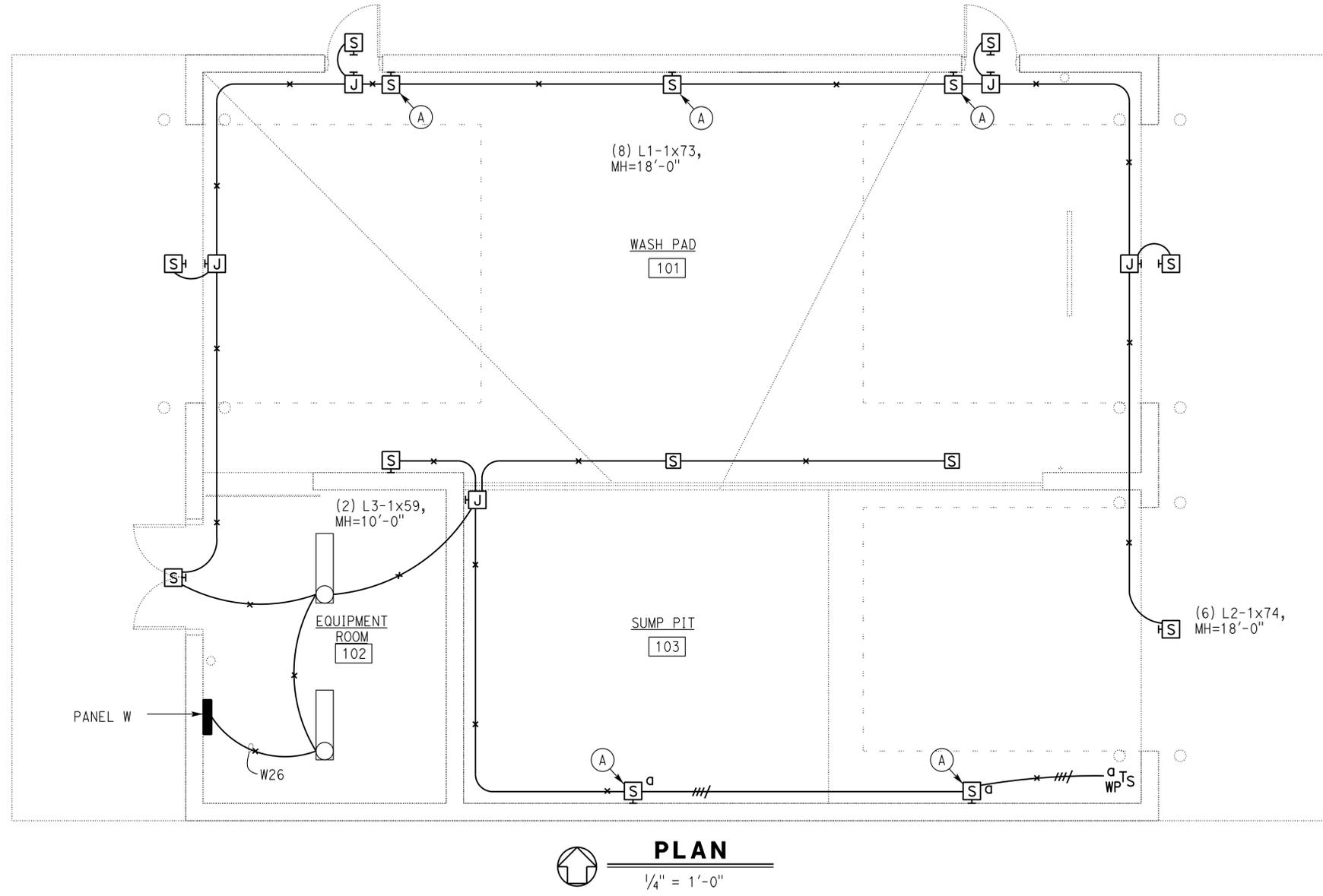
Tommy F. Lee
 REGISTERED ELECTRICAL ENGINEER
 No. 18534
 Exp. 12-31-14
 ELEC
 STATE OF CALIFORNIA



7-22-13
 PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned 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 approvals subject to field inspection. One set of approved plans shall be available on the project site at all times.
 Reviewed by: *Ingrid P. Casiano*
 INGRID P. CASIANO
 Approval date: 04-10-13
 CSFM No. N-12-1027, N-12-1028, N-12-1029, N-12-1030

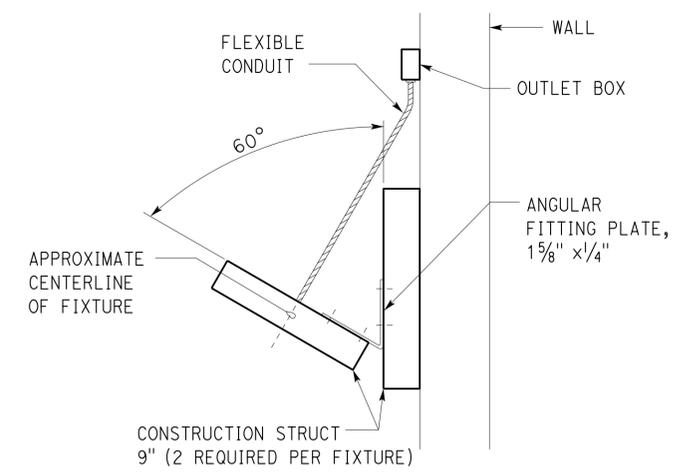


GENERAL NOTES:

- Exposed conduits and junction boxes inside wash pad and sump pit must be PVC coated rigid steel.
- For Lighting Fixture Schedule, see Electrical specification.

NOTE:

(A) For fixture installation, see Detail A on this sheet.



(A) FIXTURE MOUNTING DETAIL
 NO SCALE

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY	DESIGN BY	Tommy F. Lee	CHECKED	Catalino Enriquez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	5729	DISTRICT 10 WASH RACKS PHASE 2	SHEET EE2-3				
	DETAILS BY	Tommy F. Lee	CHECKED	Tommy F. Lee			POST MILE	PEDDLER HILL M.S.			LIGHTING PLAN			
TAEMWW Imperial Rev. 3/12	QUANTITIES BY	Tommy F. Lee	CHECKED	Catalino Enriquez	UNIT PROJECT NUMBER & PHASE	3600 10120001811	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	4/13/12	5/25/12	11/7/12	12/19/12	1/4/13	SHEET OF

23-SEP-2013 08:24 ee2_3.dgn

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: *Ingrid P. Casiano*
 INGRID P. CASIANO
 Approval date: 04-10-13

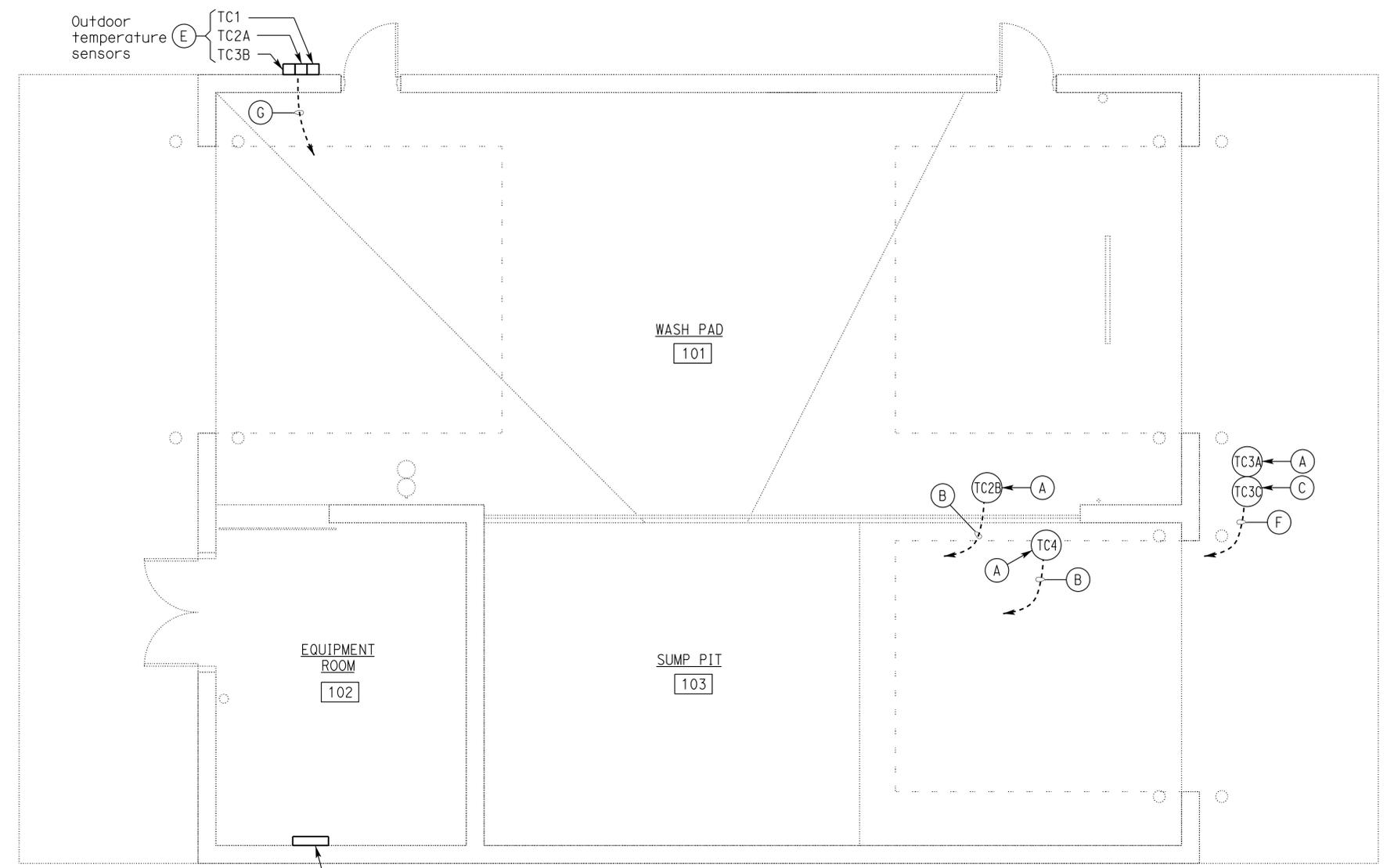
CSFM No.
 N-12-1027, N-12-1028,
 N-12-1029, N-12-1030

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Cal	4,88	Var	133	187

<i>Tommy F. Lee</i>		1-4-13
REGISTERED ELECTRICAL ENGINEER	DATE	

7-22-13
PLANS APPROVAL DATE

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



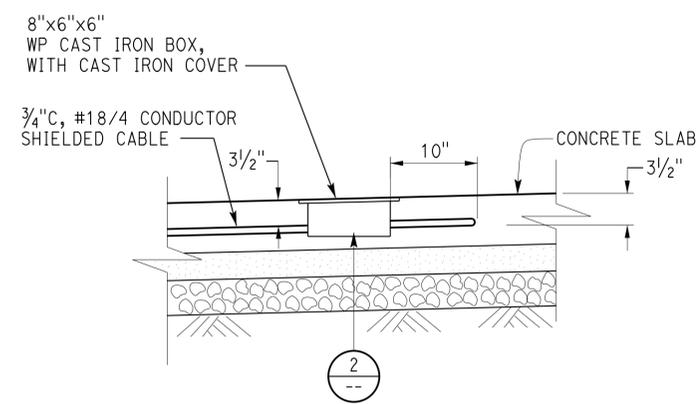
GENERAL NOTES:

1. Install sensors between heating tubes.
2. For hydronic heating schematic diagrams and details, see sheets EE5-3 through EE5-5.
3. All conduits for hydronic heating system must be rigid steel conduits.

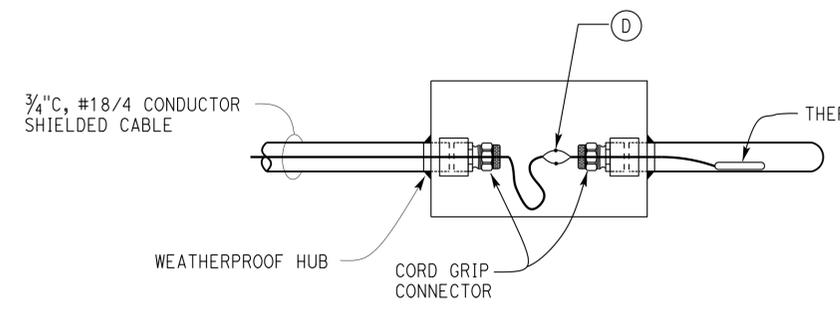
NOTES:

- (A) Thermowell with thermosensor, see Detail 1 on this sheet.
- (B) 3/4"C, with sensor cable, to Hydronic Heating Control Panel. Terminate sensor cable as required for operation.
- (C) Snow sensor, see Detail 3 on this sheet.
- (D) Solder shielded cable conductors to the pigtails of the sensor. Install clear heat shrink tubing over the soldered length.
- (E) Install outdoor sensors as recommend by manufacturer.
- (F) 1"C, snow sensor and slab sensor cables, to Hydronic Heating Control Panel. Terminate sensor cables as required for operation.
- (G) 1"C, (3) sensor cables to Hydronic Heating Control Panel. Terminate sensor cables as required for operation.

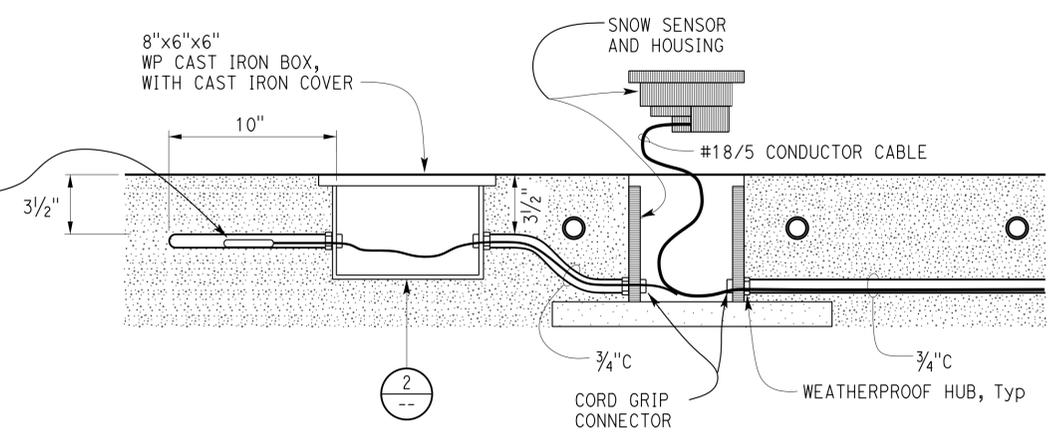
PLAN
 1/4" = 1'-0"



1 HEATED SLAB DETAIL
 NO SCALE



2 DETAIL
 NO SCALE

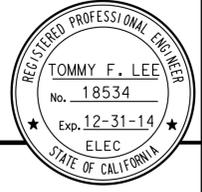


3 SENSOR CABLE INSTALLATION
 NO SCALE

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY	DESIGN	BY Tommy F. Lee	CHECKED Catalino Enriquez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	5729	DISTRICT 10 WASH RACKS PHASE 2		SHEET EE2-4							
	DETAILS	BY Tommy F. Lee	CHECKED Tommy F. Lee			POST MILE	PEDDLER HILL M.S.	HYDRONIC HEATING SENSORS PLAN									
QUANTITIES	BY Tommy F. Lee	CHECKED Catalino Enriquez	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			0	1	2	3	UNIT PROJECT NUMBER & PHASE	3600 10120001811	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	4/15/12	5/25/12	11/9/12	12/19/12

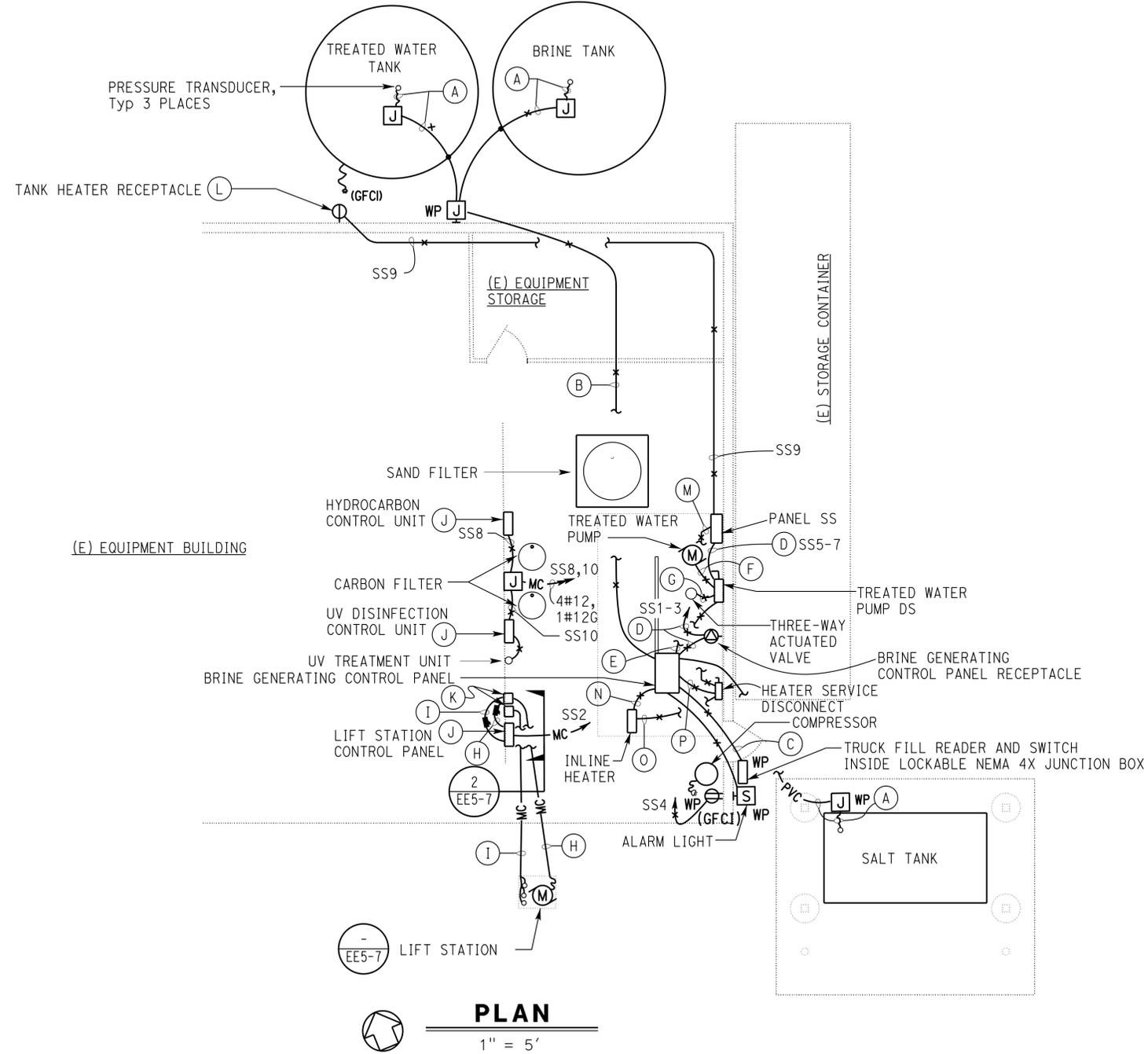
TAEMWW Imperial Rev. 3/12
 EA 0X2101
 ee2_4.dgn

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Cal	4,88	Var	134	187
Tommy F. Lee			1-4-13	REGISTERED ELECTRICAL ENGINEER DATE	
7-22-13			PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					



GENERAL NOTES:

1. Location of lift station and Inline heater are shown arbitrarily only. For exact location, see Water and Wastewater sheets.
2. For details on wall mounting of Hydrocarbon Control Panel and UV Disinfection Unit Control Panel, see Architectural sheets.
3. For "LIFT STATION PUMP CONTROL SCHEMATIC DIAGRAM" and details, see sheet EE5-7.
4. For Heater service disconnect specification, see Water and Wastewater specification.



NOTES:

- (A) Install pressure transducer cable conductor as recommended by Brine Generating Control Panel manufacturer.
- (B) 1" C, (2) pressure transducer cable conductors.
- (C) 1" C, 6#18, 1#18 spare, 1#12G, and innerduct with a shielded communication cable with three conductors.
- (D) 1/2" C, 2#10, 1#10G
- (E) 1/2" C, 3#18, 1#12G.
- (F) 1/2" C, 3#10, 1#10G.
- (G) 1/2" C, 5#18, 1#12G.
- (H) 1" C, 2#12, 2#12 spare, 1#12G, and pump motor control cables.
- (I) 1" C, (3) float switch cables.
- (J) Mount the control units and lift station on the wall as directed by the Engineer.
- (K) NEMA 3R junction box.
- (L) Provide weatherproof heavy duty diecast in use cover.
- (M) 3/4" C, 2#6, 1#6G (SS13-15).
- (N) 1/2" C, a shielded communication cable with three conductors.
- (O) 1/2" C, 2#6, 1#8G.
- (P) 1/2" C, 2#12, 1#12G.

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: *David P. Casiano*
 INGRID P. CASIANO
 Approval date: 04-10-13
 CSFM No. N-12-1027, N-12-1028, N-12-1029, N-12-1030

PLAN

1" = 5'

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY

DESIGN	BY Tommy F. Lee	CHECKED Catalino Enriquez
DETAILS	BY Tommy F. Lee	CHECKED Tommy F. Lee
QUANTITIES	BY Tommy F. Lee	CHECKED Catalino Enriquez

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO. 5729
 POST MILE

DISTRICT 10 WASH RACKS PHASE 2
 PEDDLER HILL M.S.
BRINE GENERATING STATION PLAN

SHEET **EE2-5** OF

TAEMWW Imperial Rev. 3/12

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



UNIT PROJECT NUMBER & PHASE 3600 10120001811

DISREGARD PRINTS BEARING EARLIER REVISION DATES

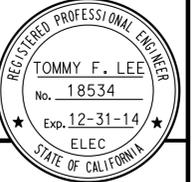
REVISION DATES (PRELIMINARY STAGE ONLY)					
4/7/12	5/25/12	11/7/12	12/19/12	1/7/13	1/29/13

SHEET OF

CALIFORNIA STATE FIRE MARSHAL APPROVED
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approvals subject to field inspection. One set of approved plans shall be available on the project site at all times.
 Reviewed by: *Ignacio P. Casiano*
 IGNACIO P. CASIANO
 Approval date: 04-10-13
 CSFM No.
 N-12-1027, N-12-1028,
 N-12-1029, N-12-1030

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Cal	4,88	Var	135	187

Tommy F. Lee
 REGISTERED ELECTRICAL ENGINEER
 1-4-13
 DATE



7-22-13
 PLANS APPROVAL DATE

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

MAIN: 125 A MAIN BREAKER
 VOLTS: 240/120 V, SINGLE PHASE, 3-WIRE

PANEL SS

FEEDER SIZE: 3#2/0, 1#4G
 LOCATION: EQUIPMENT BAY

DESCRIPTION	AMPERES		Brk	Ckt	A	C	Ckt	Brk	AMPERES		DESCRIPTION
	A	C							A	C	
BRINE GENERATING CONTROL PANEL	30		30/2	1	•		2	20/1	10		LIFT STATION
		30		3		•	4			16	COMPRESSOR
TREATED WATER PUMP	17		30/2	5	•		6		-		SPARE
		17		7	•		8			2	HYDROCARBON CONTROL PANEL
TREATED WATER TANK HEATER	1.5		20/1	9	•		10		1		UV DISINFECTION UNIT
INLINE HEATER		50	50/2	11	•		12		-		SPARE
	50			13	•		14		-		
SPARE		-	20/1	15	•		16		-		
	-			17	•		18		-		
	-			19	•		20		-		
	-			21	•		22				SPACE
	-			23	•		24				
SPACE				25	•		26				
				27	•		28				
				29	•		30				

A	C	TOTAL CONNECTED LOAD (AMPERES PER PHASE)
108.5	115	

MAIN: 225 A MAIN BREAKER
 VOLTS: 240/120 V, 3 PHASE, 4-WIRE

PANEL W

FEEDER SIZE: 4/0, 1#4G
 LOCATION: ELECTRICAL ROOM AT WASH RACK

DESCRIPTION	AMPERES			Brk	Ckt	A	B	C	Ckt	Brk	AMPERES			DESCRIPTION
	A	B	C								A	B	C	
PORTABLE PRESSURE WASHER	20			30/1	1	•			2		7			DOOR OPERATORS
SPACE					3		•		4	15/3		7		
PORTABLE PRESSURE WASHER			20	30/1	5			•	6				7	
					7			•	8		2.2			EXHAUST FAN
SPARE	-			30/3	9			•	10	15/3		2.2		
					11			•	12				2.2	
SLUDGE MONITORING SYSTEM	3			20/1	13	•			14	20/1	5			UNDERCARRIAGE WASH VEHICULAR SYSTEM
SPACE					15			•	16			30		HYDRONIC HEATING CONTROL PANEL
					17			•	18	40/2			30	
SETTLING TANK CONTROL PANEL			10	30/2	19	•			20	20/1	15			RECEPTACLES
SPACE	10				21			•	22					SPACE
RADIANT HEATER ELEC-MECH/WASH PIT			9.6	20/1	23			•	24	20/1			-	SPARE
SPARE	-				25			•	26		9			LIGHTING
SPACE					27			•	28					SPACE
SPARE				20/1	29			•	30	125/2			115	PANEL SS
SPARE	-				31			•	32		108.5			
SPACE					33			•	34					SPACE
					35			•	36	20/1			-	SPARE
					37			•	38					
					39			•	40					SPACE
					41			•	42					

*GFCI TYPE CIRCUIT BREAKER

A	B	C	TOTAL CONNECTED LOAD (AMPERES PER PHASE)
179.7	39.2	193.8	

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY

DESIGN	BY Tommy F. Lee	CHECKED Catalino Enriquez
DETAILS	BY Tommy F. Lee	CHECKED Tommy F. Lee
QUANTITIES	BY Tommy F. Lee	CHECKED Catalino Enriquez

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO. 5729
 POST MILE

DISTRICT 10 WASH RACKS PHASE 2
 PEDDLER HILL M.S.
 PANEL SCHEDULES

SHEET EE2-6 OF

CERTIFICATE OF COMPLIANCE (Page 1 of 4) LTG-1C

Project Name: PINE GROVE MAINTENANCE STATION		Date: 11-07-2012
Project Address: STATE ROUTE 88 PINE GROVE, CA 95665	Climate Zone: 5	Building CFA: 971 SQ FT
		Unconditioned Floor Area:

General Information			
Building Type:	<input checked="" type="checkbox"/> Nonresidential	<input type="checkbox"/> High-Rise Residential	<input type="checkbox"/> Hotel/Motel
	<input type="checkbox"/> Schools	<input type="checkbox"/> Relocatable Public Schools	<input checked="" type="checkbox"/> Conditioned Spaces
			<input type="checkbox"/> Unconditioned Spaces
Phase of Construction:	<input checked="" type="checkbox"/> New Construction	<input type="checkbox"/> Addition	<input type="checkbox"/> Alteration
Method of Compliance:	<input type="checkbox"/> Complete Building	<input checked="" type="checkbox"/> Area Category	<input type="checkbox"/> Tailored

Documentation Author's Declaration Statement
 • I certify that this Certificate of Compliance documentation is accurate and complete.

Name: TOMMY F. LEE	Signature: <i>Tommy F. Lee</i>
Company: CALIFORNIA DEPARTMENT OF TRANSPORTATION	Date: 11-07-12
Address: 1801 30TH STREET, MS9-3/11H	If applicable: CEA # CEPE #
City/State/Zip: SACRAMENTO, CA 95816	Phone: (916) 227-8376

Principal Lighting Designer's Declaration Statement
 • I am eligible under Division 3 of the California Business and Professions Code to accept responsibility for the lighting design.
 • This Certificate of Compliance identifies the lighting features and performance specifications required for compliance with Title 24, Pages 1 and 6 of the California Code of Regulations.
 • The design features represented on this Certificate of Compliance are consistent with the information provided to document this design on the other applicable compliance forms, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

Name: TOMMY F. LEE	Signature: <i>Tommy F. Lee</i>
Company: CALIFORNIA DEPARTMENT OF TRANSPORTATION	Phone: (916) 227-8376
Address: 1801 30TH STREET, MS9-3/11H	License # E 18534
City/State/Zip: SACRAMENTO, CA 95816	Date: EXP 12-31-14

Lighting Mandatory Measures
 Indicate location on building plans of Mandatory Measures Note Block: This Sheet

LIGHTING COMPLIANCE FORMS & WORKSHEETS (Check box if worksheet is included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms, please refer to the Nonresidential Manual published by the California Energy Commission.

<input checked="" type="checkbox"/>	LTG-1C Pages 1 through 4	Certificate of Compliance. All pages required on plans for all submittals.
<input type="checkbox"/>	LTG-2C	Lighting Controls Credit Worksheet
<input type="checkbox"/>	LTG-3C	Indoor Lighting Power Allowance
<input type="checkbox"/>	LTG-4C Pages 1 through 4	Tailored Method Worksheet
<input type="checkbox"/>	LTG-5C Pages 1 and 2	Line Voltage Track Lighting Worksheet

2008 Nonresidential Compliance Forms July 2010

General Notes: 1. Forms LTG-1C, Parts 2 of 4 are shown on EE0-1.5.
 2. Forms LTG-1C, Parts 3 of 4 and 4 of 4 are shown on EE0-1.6.
 3. Other checked forms are available upon request.

CALIFORNIA ENERGY COMMISSION MANDATORY MEASURES:

BUILDING LIGHTING SHUT-OFF

- Occupancy sensors for Wash Pit, Sump Pit and Equipment Room.

BUILDING EXTERIOR LIGHTING

- Photoelectric cell unit.
- All exterior luminaries shall have full cut-off type light distribution.

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Cal	4,88	Var	138	187

Tommy F. Lee
 REGISTERED ELECTRICAL ENGINEER
 No. 18534
 Exp. 12-31-14
 ELEC
 STATE OF CALIFORNIA

1-4-13
 DATE

7-22-13
 PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned 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: *Ingrid P. Casiano*
 INGRID P. CASIANO
 Approval date: 04-10-13

CSFM No.
 N-12-1027, N-12-1028,
 N-12-1029, N-12-1030

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY

DESIGN	BY Tommy F. Lee	CHECKED Catalino Enriquez
DETAILS	BY Tommy F. Lee	CHECKED Tommy F. Lee
QUANTITIES	BY Tommy F. Lee	CHECKED Catalino Enriquez

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO.
5718
 POST MILE

DISTRICT 10 WASH RACKS PHASE 2

PINE GROVE M.S.
INDOOR COMPLIANCE FORM 1

SHEET **EE3-0.3** OF

TAEMWW Imperial Rev. 3/12

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

0 1 2 3

UNIT PROJECT NUMBER & PHASE 3600 10120001811

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)
 8/28/12 9/27/12 10/26/12 11/7/12 11/7/12 1/4/13

SHEET OF

ee3_0_3.dgn

23-SEP-2013 08:25

General Notes:

- For exact location of enclosed wash rack and sump, wash water filter system and brine generation system, see Architectural and Water and Wastewater sheets.
- Install adhesive warning signs on existing Load center B, control panels and Panel W. The warning sign must read as follow: "Warning: Arc Flash and Shock Hazard Appropriate PPE and Tools Required When Working On This Equipment (with graphic)".
- Existing underground utilities conduit run must be verified prior to trenching.
- Remove existing conduits, conductors, and electrical system as required at existing Washer Equipment Building.
- Core drill through existing wall and saw cut on existing slab to install electrical system. Install sealant around conduit and repave the slab to match existing slab as required.

Notes:

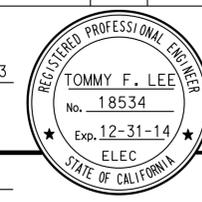
- Intercept existing conduit and conductors and reroute to new Panel W at Wash Rack Building. Location of existing underground conduits is approximate only. Contractor shall verify actual location in field.
- Remove existing 70 A, 2-pole circuit breaker in space 17-19 and install 70 A, 3-pole circuit breaker in space 17-19-21.
- (E) 1"C, 3#4. Install 1#4 and 1#8G.
- 1 1/2"C, 4#4 and 1#8G.
- 3/4"C, 2#10, and 1#10G (W14).
- Intercept existing conduit and conductors and install No. 3 1/2 pull box for future connection. See "MODIFIED PLAN" for new conduits and conductors layout plan.

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Cal	4,88	Var	141	187

Tommy F. Lee
 REGISTERED ELECTRICAL ENGINEER
 1-4-13
 DATE

7-22-13
 PLANS APPROVAL DATE

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

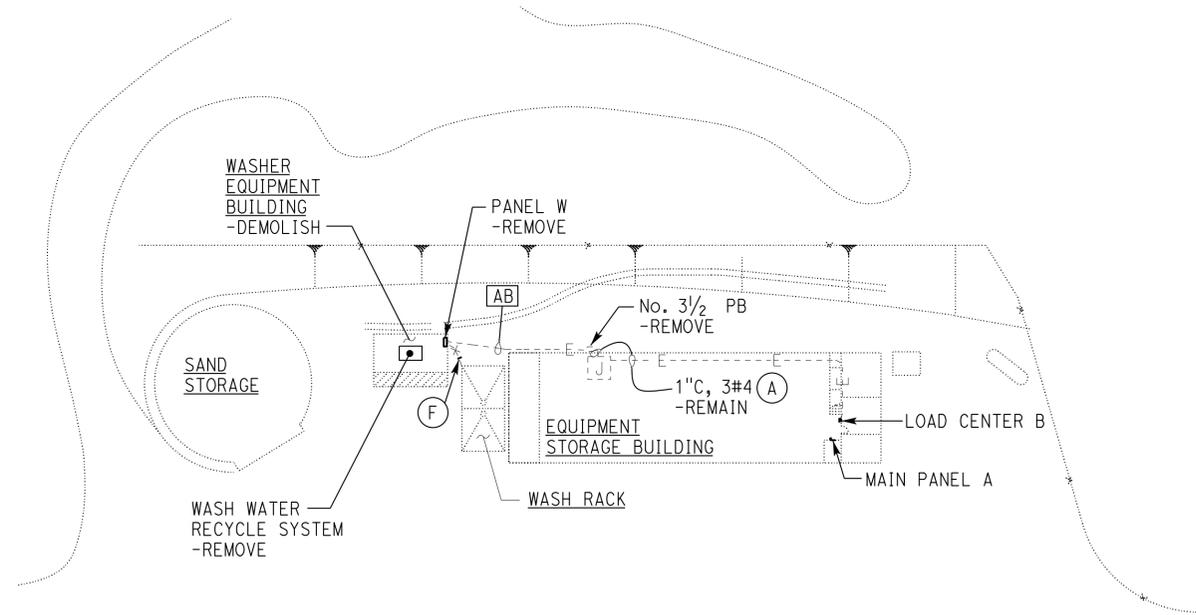


CALIFORNIA STATE FIRE MARSHAL APPROVED

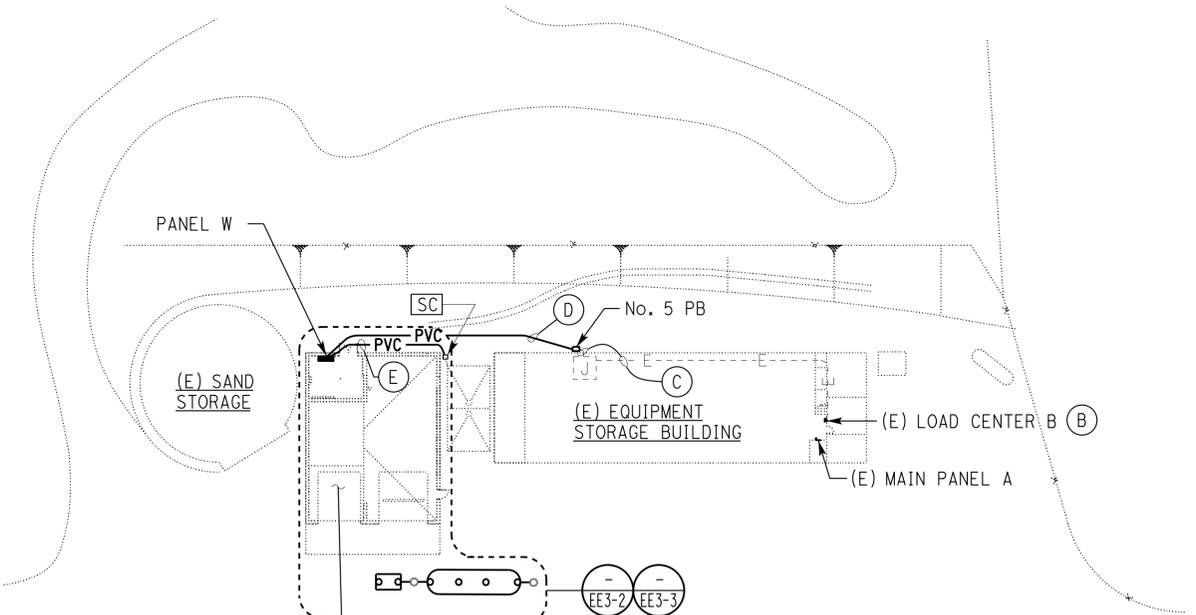
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

Reviewed by: Ingrid P. Casiano
 INGRID P. CASIANO
 Approval date: 04-10-13

CSFM No.
 N-12-1027, N-12-1028,
 N-12-1029, N-12-1030



EXISTING



MODIFIED



SITE PLAN

1" = 30'

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY

DESIGN SUPERVISOR: *Paul Schreff*
 DESIGN ENGINEER: *Mark Chapp*

DESIGN	BY Tommy F. Lee	CHECKED Catalino Enriquez
DETAILS	BY Tommy F. Lee	CHECKED Tommy F. Lee
QUANTITIES	BY Tommy F. Lee	CHECKED Catalino Enriquez

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO.	5718
POST MILE	

DISTRICT 10 WASH RACKS PHASE 2
 PINE GROVE M.S.
 SITE PLAN

SHEET **EE3-1** OF

TAEMWW Imperial Rev. 3/12

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

0	1	2	3
---	---	---	---

UNIT PROJECT NUMBER & PHASE
 3600 10120001811

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)				
4/11/12	11/9/12	12/18/12	1/4/13	

SHEET OF

NOTES:

- (A) Location of overhead door operator is shown arbitrarily only. Exact location depends upon unit furnished. Contractor shall furnish and install any additional conduits, wires and cables not shown but necessary for the automatic operation of the overhead door. All wires and cables shall be installed in conduits. Install the following conduits for the overhead door operator system:
 - 1/2" C, 3#12, and 1#12G inbetween the overhead door operator disconnect and the overhead door operator;
 - 1/2" C, control conductors as required, inbetween the overhead door operator pushbutton and overhead door operator;
 - 1/2" C, control conductors as required, inbetween the overhead door operator and reversing edge limit switch. Reversing edge limit switch is not shown for clarity.
 - 1/2" C, control conductors as required, inbetween the overhead door operator and the door operating chain limit switch. Limit switch is not shown for clarity.
- (B) 2#12, 1#12G, to Exhaust Fan Control Panel.
- (C) Install weatherproof type temperature sensors and timer switch. For "RADIANT HEATER WIRING DIAGRAM", see this sheet.

NOTES (Continued):

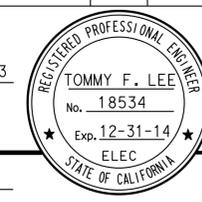
- (D) 3/4" C, PVC, 2#10, 1#10G (W14), to existing washrack canopy. For continuation, see sheet EE3-1.
- (E) 3/4" C, (2) sludge sensor cables, to sludge monitoring systems.
- (F) 2" C, PVC, with 3/4" C, non-metallic flexible liquidtight conduit, with vehicle detection sensor.
- (G) 2" C, 4#12, 1#12G, and 5-conductor vehicle detection sensor cable, to Undercarriage Wash Control Panel.
- (H) 1/2" C, install control conductors as required by radiant heater manufacturer. See "RADIANT HEATER WIRING DIAGRAM" on this sheet.
- (I) 1 1/2" C, PVC, 4#4, 1#8G, to existing Load Center B via pull box. For continuation, see sheet EE3-1.
- (J) Install liquidtight cable grip connector on conduit.

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Cal	4,88	Var	142	187

Tommy F. Lee
REGISTERED ELECTRICAL ENGINEER
DATE: 1-4-13

7-22-13
PLANS APPROVAL DATE

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



CALIFORNIA STATE FIRE MARSHAL APPROVED

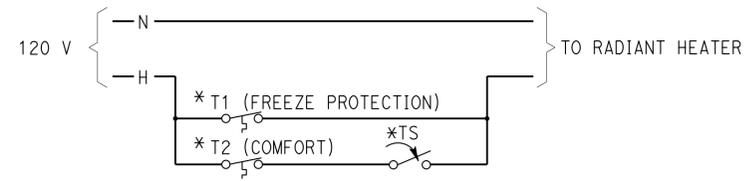
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

Reviewed by: *Ingrid P. Casiano*
INGRID P. CASIANO
Approval date: 04-10-13

CSFM No.:
N-12-1027, N-12-1028,
N-12-1029, N-12-1030

NOTES (Continued):

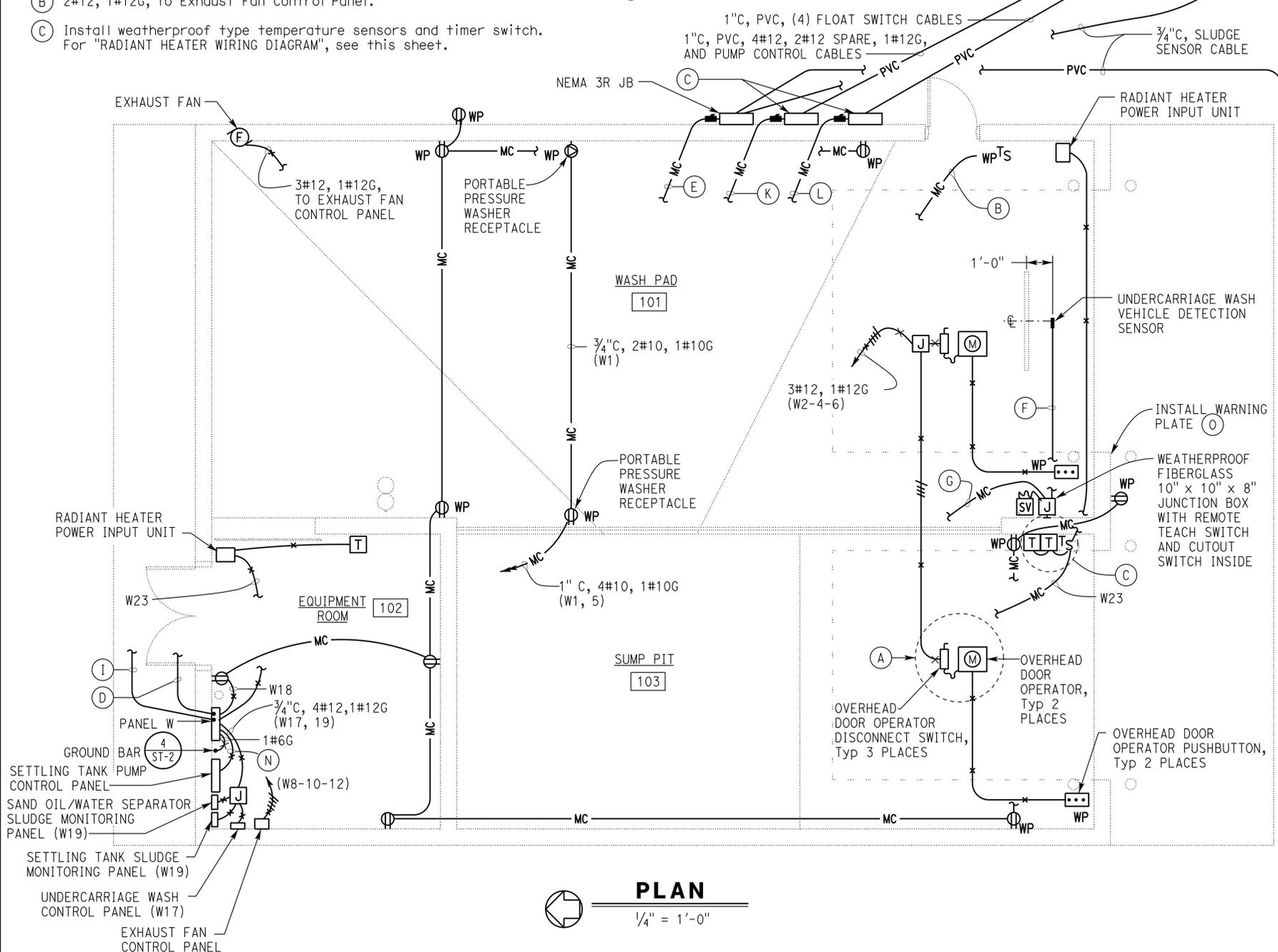
- (K) 1" C, MC, 4#12, 2#12 spare, 1#12G, and pump control cables, to Settling Tank Pump Control Panel.
- (L) 1" C, MC, (4) float switch cables, to Settling Tank Pump Control Panel.
- (N) 1/2" C, 2#10, 1#10G (W11-13).
- (O) 12" x 20" Warning Plate, see detail on EE5-8.



RADIANT HEATER WIRING DIAGRAM

GENERAL NOTES:

- For exact location of sand oil/Water separator and sampling box, and settling tank, see Water and Wastewater sheets.
- For exact location of exhaust fan, hydronic heating pumps, and radiant heater, see Mechanical sheets.
- For "EXHAUST FAN WIRING DIAGRAM" and "WIRING DIAGRAM FOR UNDERCARRIAGE WASH VEHICLE DETECTION SENSOR" and installation, see sheet EE5-8.
- For "SETTLING TANK PUMP CONTROL SCHEMATIC DIAGRAM", see sheet EE5-2.
- For exact location of portable pressure washer outlets and undercarriage wash vehicle detection sensor, see Architectural sheets.
- Inside Wash pad and Sump pit, exposed conduits and junction boxes must be PVC coated rigid steel. Also pushbuttons and selector switches must be factory sealed, heavy duty 600 VAC rated with corrosion-resistant housings.
- Provide sludge sensor cable, from sensor unit to the monitoring systems, via NEMA 3R junction box, and splice the cable inside the box as needed. Coil minimum 5 feet of each sensor cable inside the box. See Water and Wastewater for sludge sensor and cable specification.

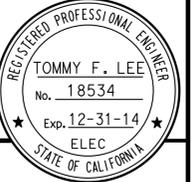


THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY		DESIGN BY Tommy F. Lee	CHECKED Catalino Enriquez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 5718	DISTRICT 10 WASH RACKS PHASE 2		SHEET EE3-2
		DETAILS BY Tommy F. Lee	CHECKED Tommy F. Lee		ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	POST MILE	PINE GROVE M.S.	POWER PLAN	
		QUANTITIES BY Tommy F. Lee	CHECKED Catalino Enriquez		UNIT PROJECT NUMBER & PHASE 3600 10120001811	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	
TAEWW Imperial Rev. 3/12		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		EA 0X2101		4/7/12 11/9/12 12/14/12 1/4/13		SHEET OF	

23-SEP-2013 13:19 ee3_2.dgn

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Cal	4,88	Var	143	187

Tommy F. Lee
 REGISTERED ELECTRICAL ENGINEER
 1-4-13
 DATE



7-22-13
 PLANS APPROVAL DATE

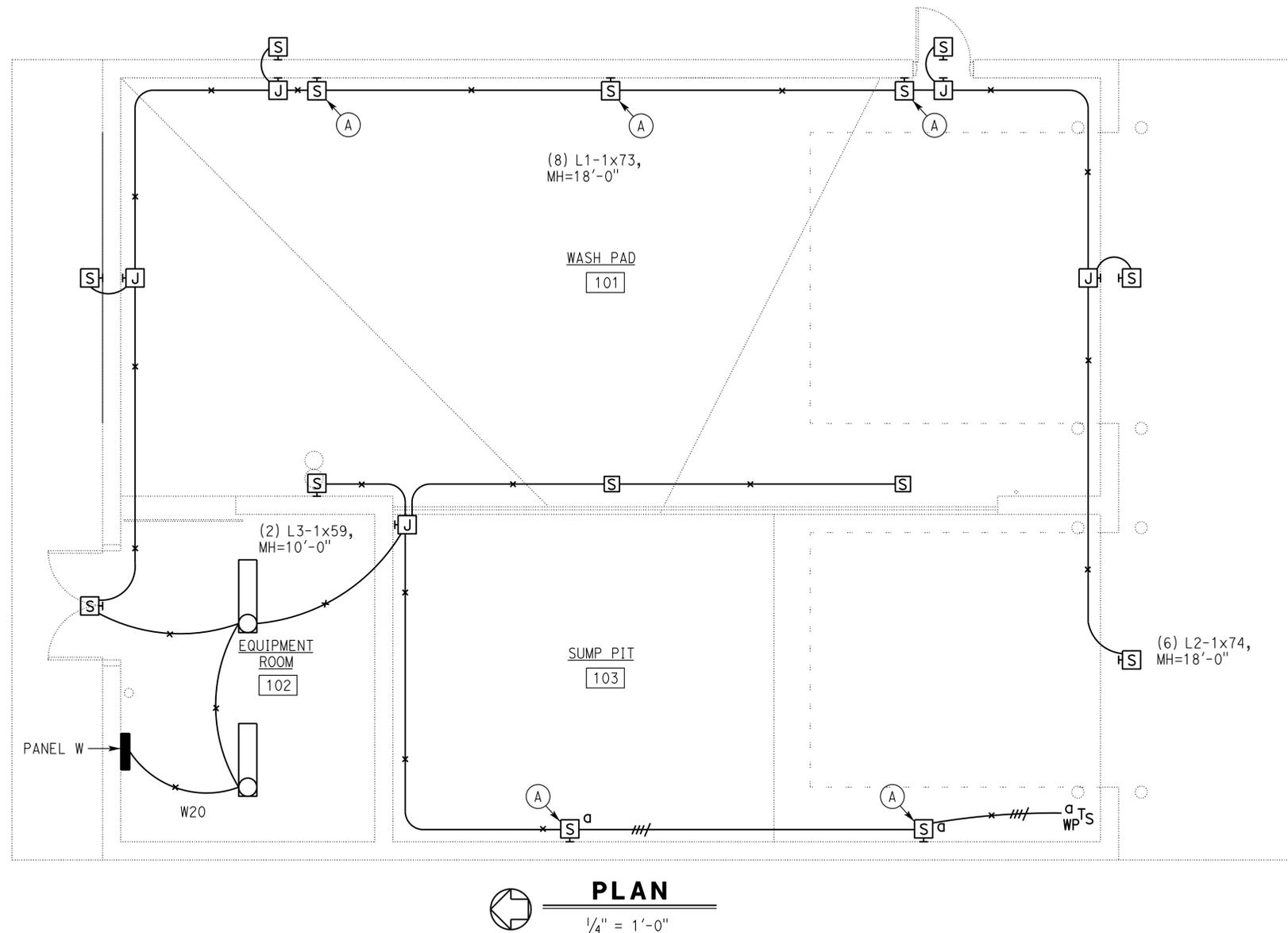
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.

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: *Ingrid P. Castano*
 INGRID P. CASTANO
 Approval date: 04-10-13

CSFM No. N-12-1027, N-12-1028, N-12-1029, N-12-1030

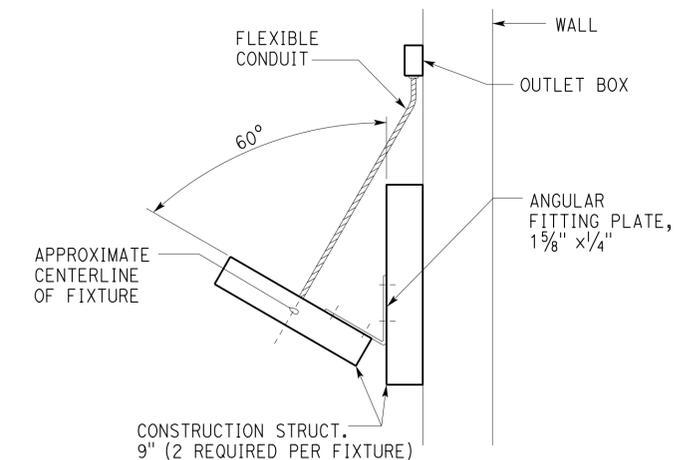


GENERAL NOTES:

- Exposed conduits and junction boxes inside wash pad and sump pit must be PVC coated rigid steel.
- For Lighting Fixture Schedule, see Electrical specification.

NOTE:

(A) For fixture installation, see Detail A on this sheet.



A **FIXTURE MOUNTING DETAIL**
 NO SCALE

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY

DESIGN	BY Tommy F. Lee	CHECKED Catalino Enriquez
DETAILS	BY Tommy F. Lee	CHECKED Tommy F. Lee
QUANTITIES	BY Tommy F. Lee	CHECKED Catalino Enriquez

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO.	5718
POST MILE	

DISTRICT 10 WASH RACKS PHASE 2

PINE GROVE M.S.
 LIGHTING PLAN

SHEET **EE3-3**

TAEMWW Imperial Rev. 3/12

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



UNIT PROJECT NUMBER & PHASE 3600 10120001811

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)				
4/13/12	5/25/12	11/9/12	1/4/13	

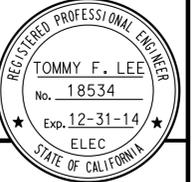
SHEET OF

ee3_3.dgn

23-SEP-2013 13:24

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Cal	4,88	Var	144	187

Tommy F. Lee
 REGISTERED ELECTRICAL ENGINEER
 1-4-13
 DATE



7-22-13
 PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned 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: *Ingrid P. Casiano*
 INGRID P. CASIANO
 Approval date: 04-10-13

CSFM No.
 N-12-1027, N-12-1028,
 N-12-1029, N-12-1030

MAIN: 70 A MAIN BREAKER
 VOLTS: 240/120 V, 3 PHASE, 4-WIRE

PANEL W

FEEDER SIZE: 4#4, 1#8G
 LOCATION: ELECTRICAL ROOM
 AT WASH RACK

DESCRIPTION	AMPERES			Brk	Ckt	A	B	C	Ckt	Brk	AMPERES			DESCRIPTION
	A	B	C								A	B	C	
PORTABLE PRESSURE WASHER	20			30/1*	1	•			2		5			DOOR OPERATORS
SPACE					3		•		4	15/3		5		
PORTABLE PRESSURE WASHER			20	30/1*	5			•	6				5	
SPARE	-			20/1	7	•			8		2.2			EXHAUST FAN
SPACE					9		•		10	15/3		2.2		
SETTLING TANK CONTROL PANEL			10	30/2	11			•	12			2.2		
SPACE	10				13	•			14	20/1	7.5			WASH RACK CANOPY LIGHTING
UNDERCARRIAGE SYSTEM			5	20/1	17	•			18	20/1*			15	RECEPTACLES
SLUDGE MONITORING SYSTEM	3			↓	19	•			20	↓	9			LIGHTING
SPACE					21		•		22	↓				SPACE
RADIANT HEATERS			2	20/1	23	•			24	20/1			-	SPARE
SPACE	-			↓	25	•			26	↓	-			↓
SPACE					27		•		28					SPACE
SPACE					29		•		30	20/1			-	SPARE

*GFCI TYPE CIRCUIT BREAKER

A	B	C	TOTAL CONNECTED LOAD (AMPERES PER PHASE)
56.7	7.2	59.2	

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY

DESIGN	BY Tommy F. Lee	CHECKED Catalino Enriquez
DETAILS	BY Tommy F. Lee	CHECKED Tommy F. Lee
QUANTITIES	BY Tommy F. Lee	CHECKED Catalino Enriquez

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO.	5718
POST MILE	

DISTRICT 10 WASH RACKS PHASE 2

PINE GROVE M.S.
 PANEL SCHEDULE

SHEET EE3-4

TAEMWW Imperial Rev. 3/12

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

0	1	2	3
---	---	---	---

UNIT PROJECT NUMBER & PHASE 3600 10120001811
 EA 0X2101

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)					
4/13/12	5/25/12	11/7/12	12/19/12	1/4/13	

SHEET OF

ee3_4.dgn

23-SEP-2013 08:25

CERTIFICATE OF COMPLIANCE (Page 1 of 4) LTG-1C

Project Name: CAMP CONNELL MAINTENANCE STATION		Date: 11-07-2012
Project Address: HWY 4, 3/4 MILE EAST OF CAMP CONNELL, CA	Climate Zone: 5	Building CFA: 971 sq ft
		Unconditioned Floor Area:

General Information			
Building Type:	<input checked="" type="checkbox"/> Nonresidential	<input type="checkbox"/> High-Rise Residential	<input type="checkbox"/> Hotel/Motel
	<input type="checkbox"/> Schools	<input type="checkbox"/> Relocatable Public Schools	<input checked="" type="checkbox"/> Conditioned Spaces
			<input type="checkbox"/> Unconditioned Spaces
Phase of Construction:	<input checked="" type="checkbox"/> New Construction	<input type="checkbox"/> Addition	<input type="checkbox"/> Alteration
Method of Compliance:	<input type="checkbox"/> Complete Building	<input checked="" type="checkbox"/> Area Category	<input type="checkbox"/> Tailored

Documentation Author's Declaration Statement
 • I certify that this Certificate of Compliance documentation is accurate and complete.

Name: TOMMY F. LEE	Signature: <i>Tommy F. Lee</i>
Company: CALIFORNIA DEPARTMENT OF TRANSPORTATION	Date: 11-07-12
Address: 1801 30TH STREET, MS9-3/11H	If applicable: CEA # CEPE #
City/State/Zip: SACRAMENTO, CA 95816	Phone: (916) 227-8376

Principal Lighting Designer's Declaration Statement

- I am eligible under Division 3 of the California Business and Professions Code to accept responsibility for the lighting design.
- This Certificate of Compliance identifies the lighting features and performance specifications required for compliance with Title 24, Pages 1 and 6 of the California Code of Regulations.
- The design features represented on this Certificate of Compliance are consistent with the information provided to document this design on the other applicable compliance forms, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

Name: TOMMY F. LEE	Signature: <i>Tommy F. Lee</i>
Company: CALIFORNIA DEPARTMENT OF TRANSPORTATION	Phone: (916) 227-8376
Address: 1801 30TH STREET, MS9-3/11H	License # E 18534
City/State/Zip: SACRAMENTO, CA 95816	Date: EXP 12-31-14

Lighting Mandatory Measures
 Indicate location on building plans of Mandatory Measures Note Block: This Sheet

LIGHTING COMPLIANCE FORMS & WORKSHEETS (Check box if worksheet is included)	
<input checked="" type="checkbox"/> LTG-1C Pages 1 through 4	Certificate of Compliance. All pages required on plans for all submittals.
<input type="checkbox"/> LTG-2C	Lighting Controls Credit Worksheet
<input type="checkbox"/> LTG-3C	Indoor Lighting Power Allowance
<input type="checkbox"/> LTG-4C Pages 1 through 4	Tailored Method Worksheet
<input type="checkbox"/> LTG-5C Pages 1 and 2	Line Voltage Track Lighting Worksheet

2008 Nonresidential Compliance Forms July 2010

General Notes: 1. Forms LTG-1C, Parts 2 of 4 are shown on EE0-1.5.
 2. Forms LTG-1C, Parts 3 of 4 and 4 of 4 are shown on EE0-1.6.
 3. Other checked forms are available upon request.

CALIFORNIA ENERGY COMMISSION MANDATORY MEASURES:

BUILDING LIGHTING SHUT-OFF

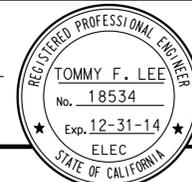
1. Occupancy sensors for Wash Pit, Sump Pit and Equipment Room.

BUILDING EXTERIOR LIGHTING

1. Photoelectric cell unit.
2. All exterior luminaries shall have full cut-off type light distribution.

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Cal	4,88	Var	147	187

Tommy F. Lee
 REGISTERED ELECTRICAL ENGINEER DATE 1-4-13



7-22-13
 PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned 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 approvals subject to field inspection. One set of approved plans shall be available on the project site at all times.

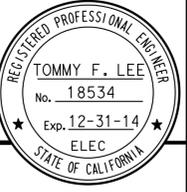
Reviewed by: *Ignacio P. Castano*
 IGNACIO P. CASTANO
 Approval date: 04-10-13

CSFM No.
 N-12-1027, N-12-1028,
 N-12-1029, N-12-1030

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY	DESIGN	BY Tommy F. Lee	CHECKED Catalino Enriquez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 5726	DISTRICT 10 WASH RACKS PHASE 2	SHEET	EE4-0.3	
	DETAILS	BY Tommy F. Lee	CHECKED Tommy F. Lee		ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	POST MILE		CAMP CONNELL M.S.		INDOOR COMPLIANCE FORM 1
	QUANTITIES	BY Tommy F. Lee	CHECKED Catalino Enriquez		PROJECT NUMBER & PHASE 10120001811	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)		
TAEMWW Imperial Rev. 3/12	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3				UNIT 3600	SHEET OF			ea4_0_3.dgn	

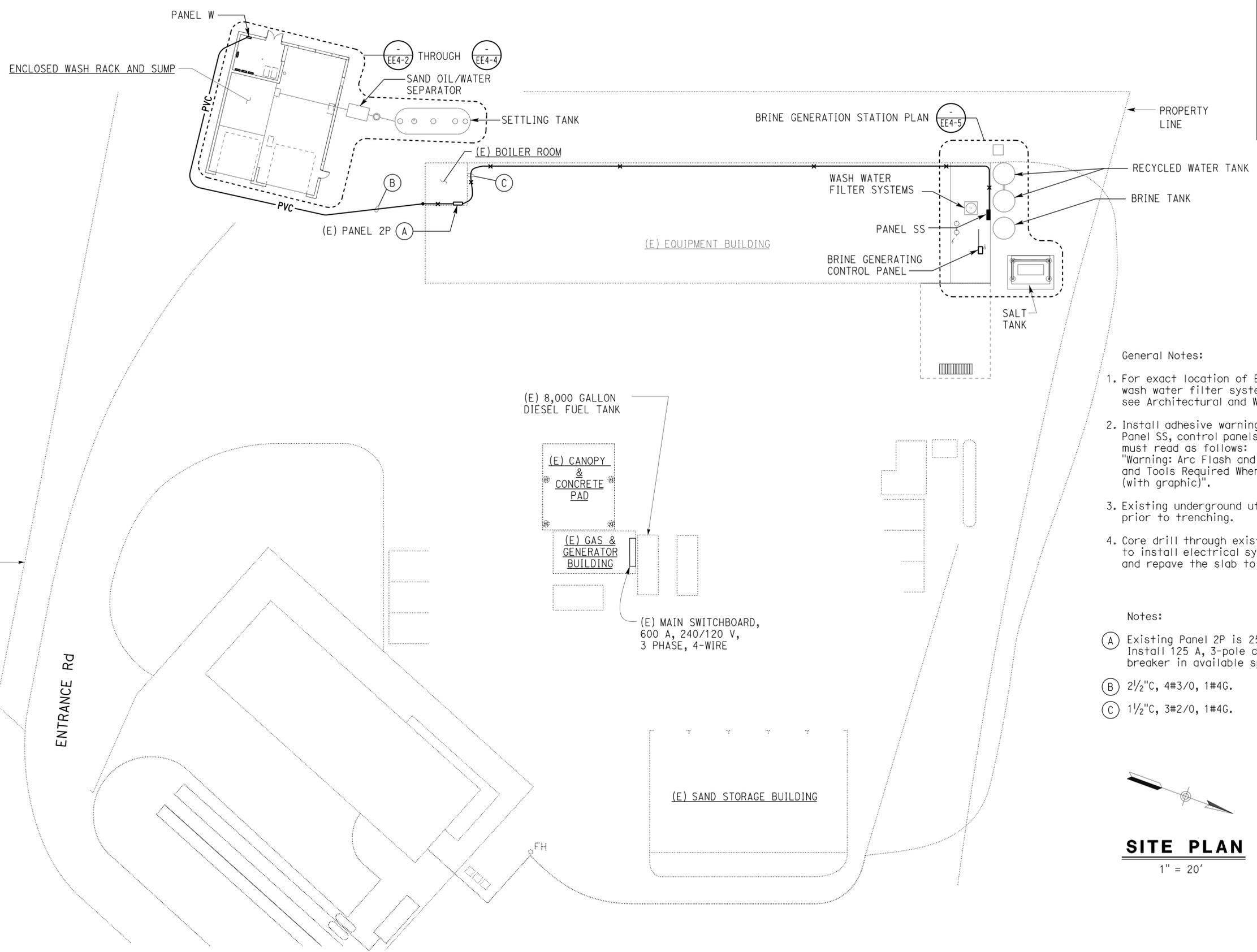
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Cal	4,88	Var	150	187

Tommy F. Lee
 REGISTERED ELECTRICAL ENGINEER
 DATE 1-4-13



7-22-13
 PLANS APPROVAL DATE
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned 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 approvals subject to field inspection. One set of approved plans shall be available on the project site at all times.
 Reviewed by: *Ingrid P. Icasiano*
 INGRID P. ICASIANO
 Approval date: 04-10-13
 CSFM No. N-12-1027, N-12-1028, N-12-1029, N-12-1030

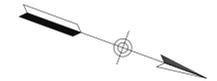


General Notes:

1. For exact location of Enclosed Wash Rack and Sump, wash water filter system and brine generation system, see Architectural and Water and Wastewater sheets.
2. Install adhesive warning signs on existing Panel 2P, Panel SS, control panels and Panel W. The warning sign must read as follows:
 "Warning: Arc Flash and Shock Hazard Appropriate PPE and Tools Required When Working On This Equipment (with graphic)".
3. Existing underground utilities conduit run must be verified prior to trenching.
4. Core drill through existing wall and saw cut on existing slab to install electrical system. Install sealant around conduit and repave the slab to match existing slab as required.

Notes:

- (A) Existing Panel 2P is 250 A, 3-pole, 240/120 V, 3 phase, 4-wire. Install 125 A, 3-pole circuit breaker and 125 A, 2-pole circuit breaker in available spaces.
- (B) 2 1/2" C, 4#3/0, 1#4G.
- (C) 1 1/2" C, 3#2/0, 1#4G.



SITE PLAN
 1" = 20'

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY

Paul Schreff
 DESIGN SUPERVISOR
Mark Chapp
 DESIGN ENGINEER

DESIGN	BY Tommy F. Lee	CHECKED Catalino Enriquez
DETAILS	BY Tommy F. Lee	CHECKED Tommy F. Lee
QUANTITIES	BY Tommy F. Lee	CHECKED Catalino Enriquez

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO. 5726
 POST MILE

DISTRICT 10 WASH RACKS PHASE 2
 CAMP CONNELL M.S.
 SITE PLAN

SHEET **EE4-1** OF

TAEMWW Imperial Rev. 3/12

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT PROJECT NUMBER & PHASE 3600 10120001811
 EA 0X2101

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)						SHEET	OF
4/11/12	11/9/12	12/18/12	1/4/13	1/29/13			

23-SEP-2013 08:26 ee4_1.dgn

NOTES:

- (A) Location of overhead door operator is shown arbitrarily only. Exact location depends upon unit furnished. Contractor shall furnish and install any additional conduits, wires, and cables not shown but necessary for the automatic operation of the overhead door. All wires and cables shall be installed in conduits. Install the following conduits for the overhead door operator system:
 - 1/2" C, 3#12, and 1#12G, inbetween the overhead door operator disconnect and the overhead door operator;
 - 1/2" C, control conductors as required, inbetween the overhead door operator pushbutton and overhead door operator
 - 1/2" C, control conductors as required, inbetween the overhead door operator and reversing edge limit switch. Reversing edge limit switch is not shown for clarity.
 - 1/2" C, control conductors as required, inbetween the overhead door operator and the door operating chain limit switch. Limit switch is not shown for clarity.

(B) 2#12, 1#12G, to Exhaust Fan Control Panel.

(C) Weatherproof NEMA 3R junction box. Install power distribution type terminal blocks for terminating all conductors.

NOTES (Continued):

- (D) 1" C, MC, 4#12, 2#12 spare, 1#12G, and pump control cables to Settling Tank Pump Control Panel.
- (E) 3/4" C, (2) sludge sensor cables, to sludge monitoring systems.
- (F) 2" C, PVC, with 3/4" C, non-metallic flexible liquidtight conduit with vehicle detection sensor.
- (G) 2" C, 4#12, 1#12G, and 5-conductor vehicle detection sensor cable to Undercarriage Wash Control Panel.
- (H) 2 1/2" C, PVC, 4#3/0, 1#4G, to Panel 2P. For continuation, see sheet EE4-1.
- (I) 1" C, MC, (4) float switch cables, to Settling Tank Pump Control Panel.

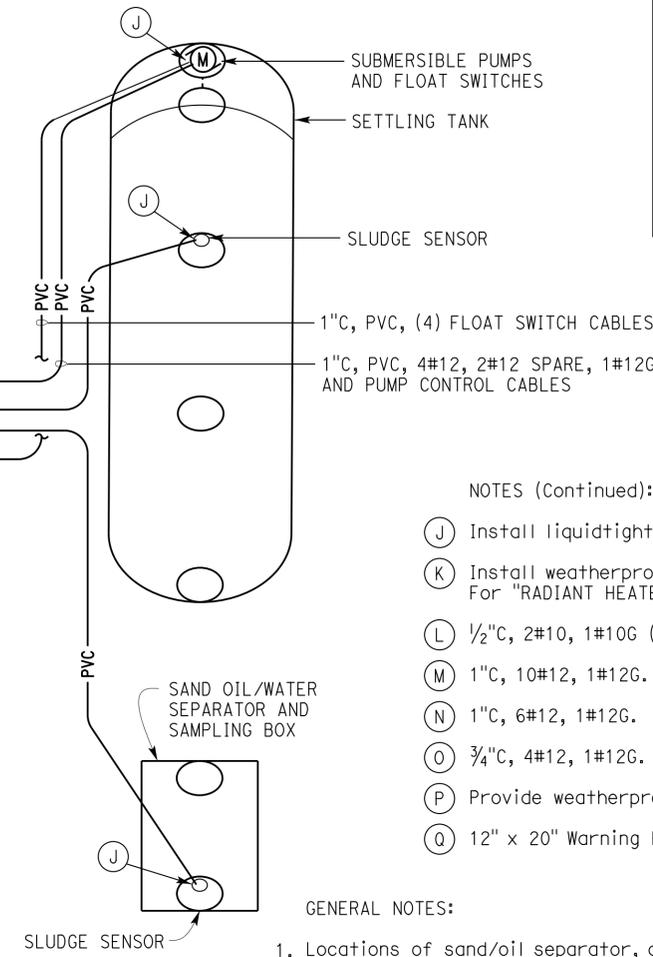
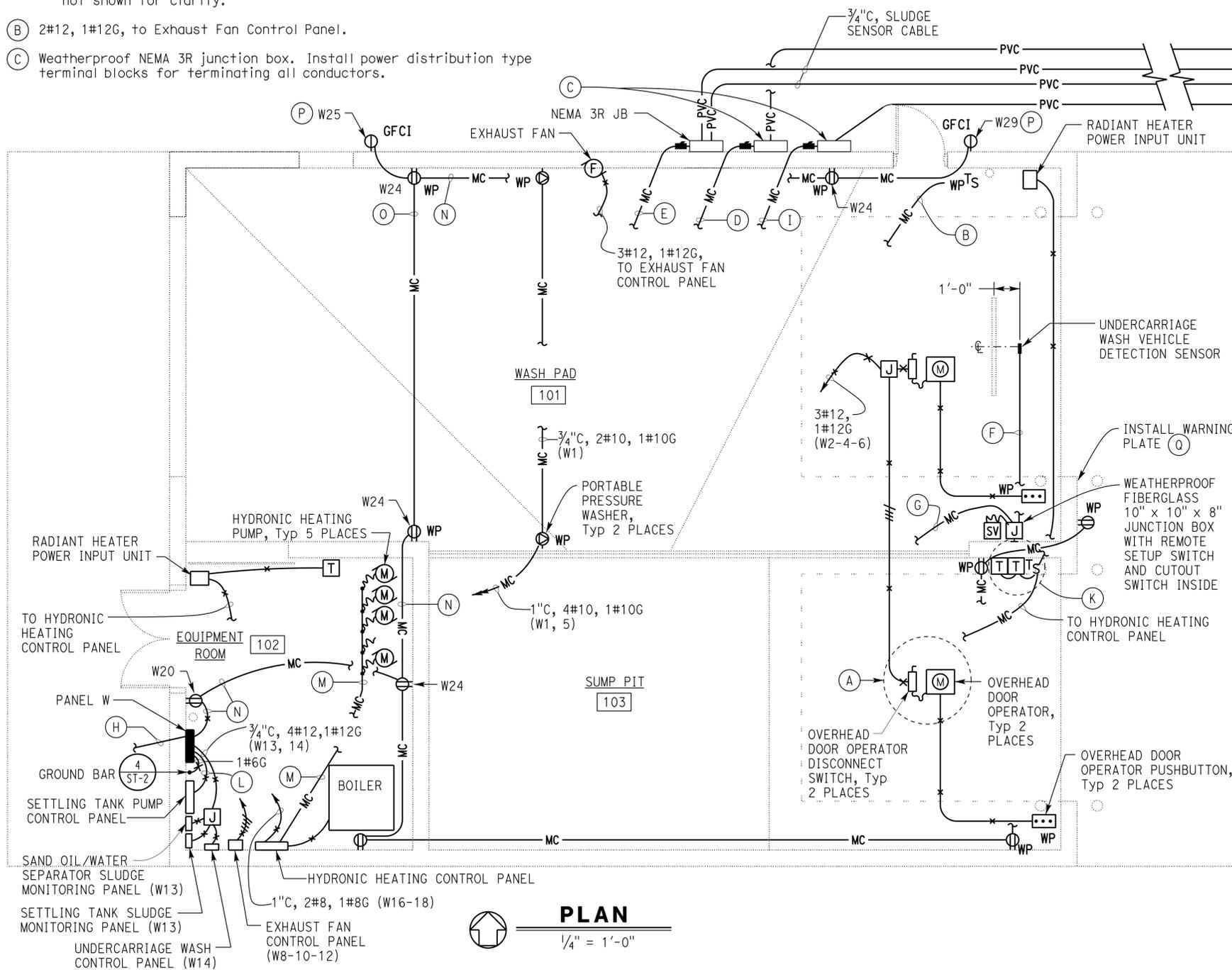
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Cal	4,88	Var	151	187

Tommy F. Lee
REGISTERED ELECTRICAL ENGINEER
1-4-13 DATE

7-22-13
PLANS APPROVAL DATE

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

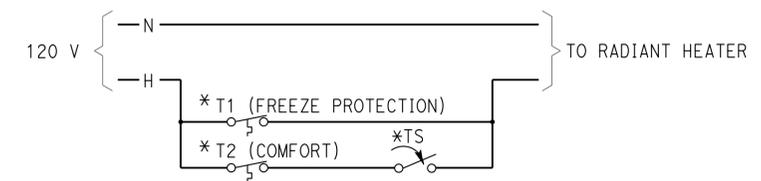
CALIFORNIA STATE FIRE MARSHAL APPROVED
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
Reviewed by: Ingrid P. Icasiano
Approval date: 04-10-13
CSFM No. N-12-1027, N-12-1028, N-12-1029, N-12-1030



- NOTES (Continued):
- (J) Install liquidtight cable grip connector on conduit.
 - (K) Install weatherproof type temperature sensors and timer switch. For "RADIANT HEATER WIRING DIAGRAM", see this sheet.
 - (L) 1/2" C, 2#10, 1#10G (W17-19).
 - (M) 1" C, 10#12, 1#12G.
 - (N) 1" C, 6#12, 1#12G.
 - (O) 3/4" C, 4#12, 1#12G.
 - (P) Provide weatherproof heavy duty die-cast in use cover.
 - (Q) 12" x 20" Warning Plate, see detail on EE5-8.

GENERAL NOTES:

1. Locations of sand/oil separator, and settling tank are shown arbitrarily. For the exact locations, see Water and Wastewater sheets.
2. For exact location of exhaust fan and radiant heater, see Mechanical sheets.
3. For "EXHAUST FAN WIRING DIAGRAM" and "WIRING DIAGRAM FOR UNDERCARRIAGE WASH VEHICLE DETECTION SENSOR", and installation, see sheet EE5-8.
4. For "SETTLING TANK PUMP CONTROL SCHEMATIC DIAGRAM", see sheet EE5-2.
5. For exact location of portable pressure washer outlets, see Architectural sheets.
6. Inside Wash pad and Sump pit, exposed conduits and junction boxes must be PVC coated rigid steel. Also pushbuttons and selector switches must be factory sealed, heavy duty 600 VAC rated with corrosion-resistant housings.
7. Provide sludge sensor cable, from sensor unit to the monitoring systems, via NEMA 3R junction box, and splice the cable inside the box as needed. Coil minimum 5 feet of each sensor cable inside the box. See Water and Wastewater sheets for sludge sensor and cable specification.



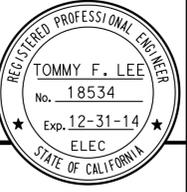
*Furnished by radiant heater manufacturer

RADIANT HEATER WIRING DIAGRAM

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY		DESIGN BY Tommy F. Lee	CHECKED Catalino Enriquez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 5726	DISTRICT 10 WASH RACKS PHASE 2		SHEET EE4-2	
		DETAILS BY Tommy F. Lee	CHECKED Tommy F. Lee				CAMP CONNELL M.S.	POWER PLAN		
		QUANTITIES BY Tommy F. Lee	CHECKED Catalino Enriquez							
TAEWW Imperlal Rev. 3/12		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3	UNIT PROJECT NUMBER & PHASE 3600 10120001811	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF	

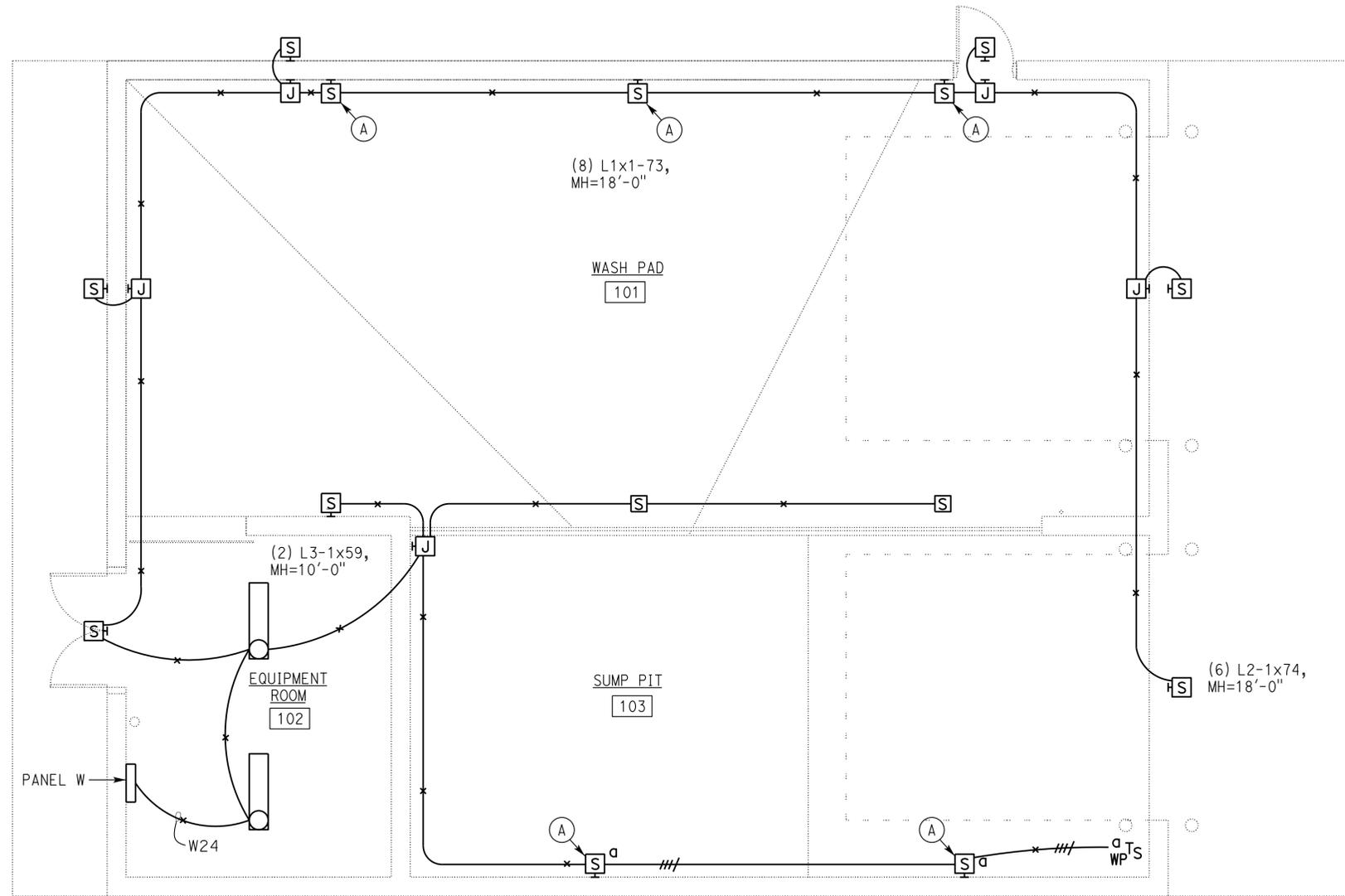
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Cal	4,88	Var	152	187

Tommy F. Lee
 REGISTERED ELECTRICAL ENGINEER
 No. 18534
 Exp. 12-31-14
 ELEC
 STATE OF CALIFORNIA



1-4-13 DATE
 7-22-13 PLANS APPROVAL DATE
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned 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 approvals subject to field inspection. One set of approved plans shall be available on the project site at all times.
 Reviewed by: *Ingrid P. Casiano*
 INGRID P. CASIANO
 Approval date: 04-10-13
 CSFM No. N-12-1027, N-12-1028, N-12-1029, N-12-1030



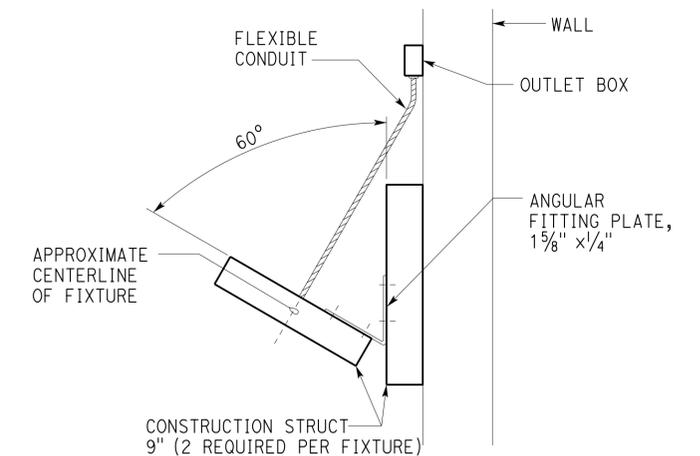
PLAN
 1/4" = 1'-0"

GENERAL NOTES:

- Exposed conduits and junction boxes inside wash pad and sump pit must be PVC coated rigid steel.
- For Lighting Fixture Schedule, see Electrical specification.

NOTE:

(A) For fixture installation, see Detail A on this sheet.



A **FIXTURE MOUNTING DETAIL**
 NO SCALE

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY

DESIGN	BY Tommy F. Lee	CHECKED Catalino Enriquez
DETAILS	BY Tommy F. Lee	CHECKED Tommy F. Lee
QUANTITIES	BY Tommy F. Lee	CHECKED Catalino Enriquez

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO.	5726
POST MILE	

DISTRICT 10 WASH RACKS PHASE 2
 CAMP CONNELL M.S.
LIGHTING PLAN

SHEET **EE4-3** OF



REVISION DATES (PRELIMINARY STAGE ONLY)			
4/13/12	11/9/12	1/4/13	

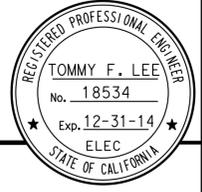
23-SEP-2013 08:29

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Cal	4,88	Var	153	187

Tommy F. Lee
REGISTERED ELECTRICAL ENGINEER
DATE 1-4-13

7-22-13
PLANS APPROVAL DATE

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

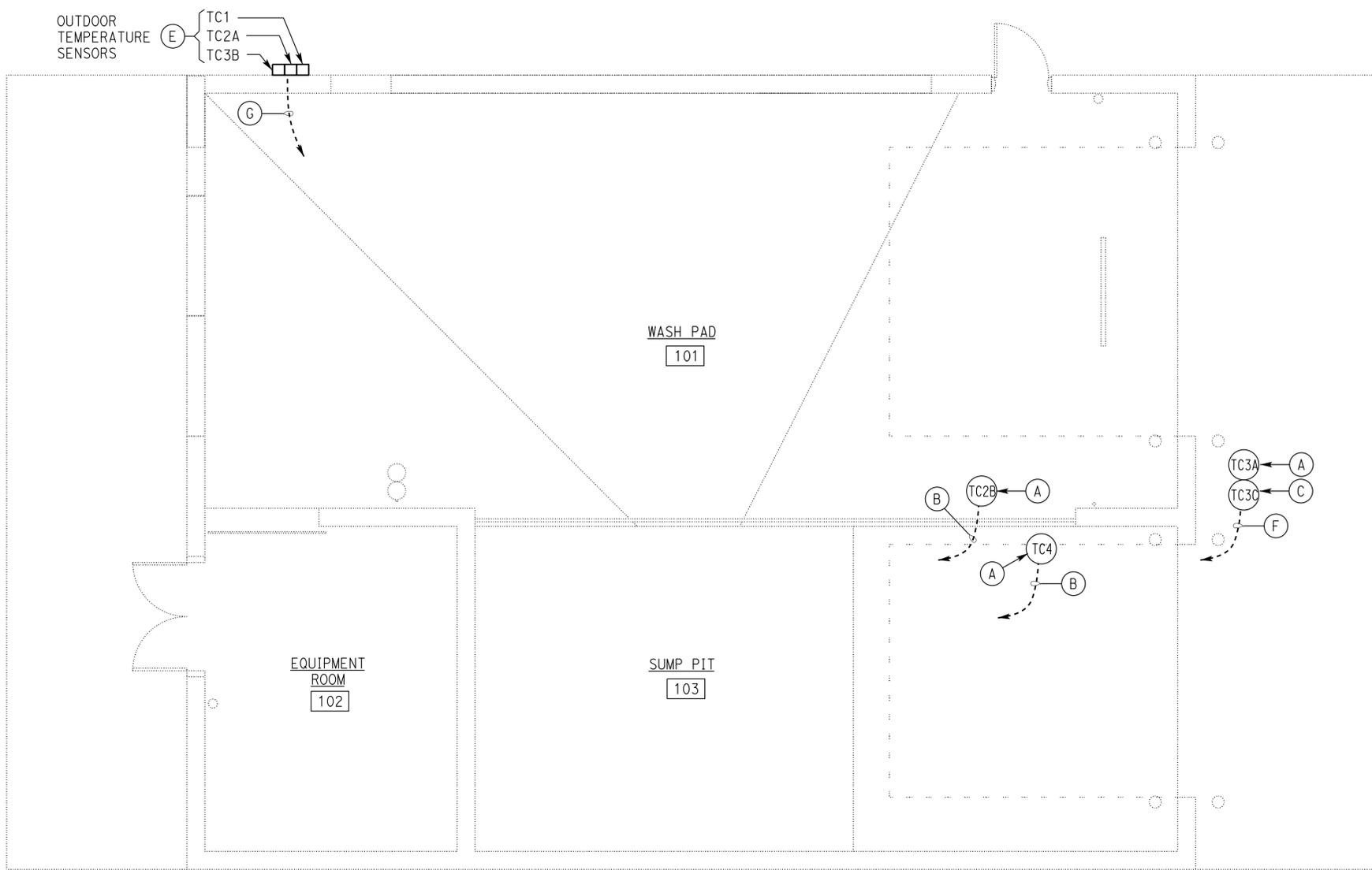


CALIFORNIA STATE FIRE MARSHAL APPROVED

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: *David P. Castano*
INGR. P. CASTANO
Approval date: 04-10-13

CSFM No.
N-12-1027, N-12-1028
N-12-1029, N-12-1030



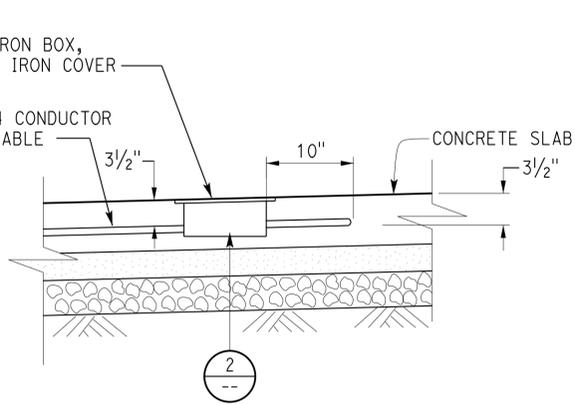
GENERAL NOTES:

1. Install sensors between heating tubes.
2. For hydronic heating schematic diagrams and details, see sheets EE5-3 through EE5-5.
3. All conduits for hydronic heating system must be rigid steel conduits.

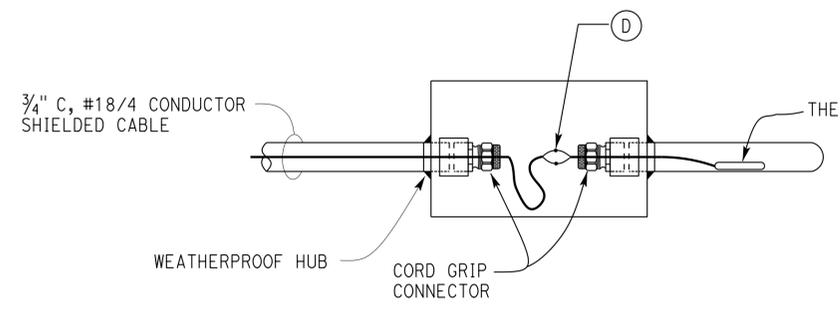
NOTES:

- (A) Thermowell with thermosensor, see Detail 1 on this sheet.
- (B) 3/4" C, with sensor cable to Hydronic Heating Control Panel. Terminate sensor cable as required for operation.
- (C) Snow sensor, see Detail 3 on this sheet.
- (D) Solder shielded cable conductors to the pigtails of the sensor. Install clear heat shrink tubing over the soldered length.
- (E) Install outdoor sensors as recommended by manufacturer.
- (F) 1" C, snow sensor and slab sensor cables, to Hydronic Heating Control Panel. Terminate sensor cables as required for operation.
- (G) 1" C, (3) sensor cables to Hydronic Heating Control Panel. Terminate sensor cables as required for operation.

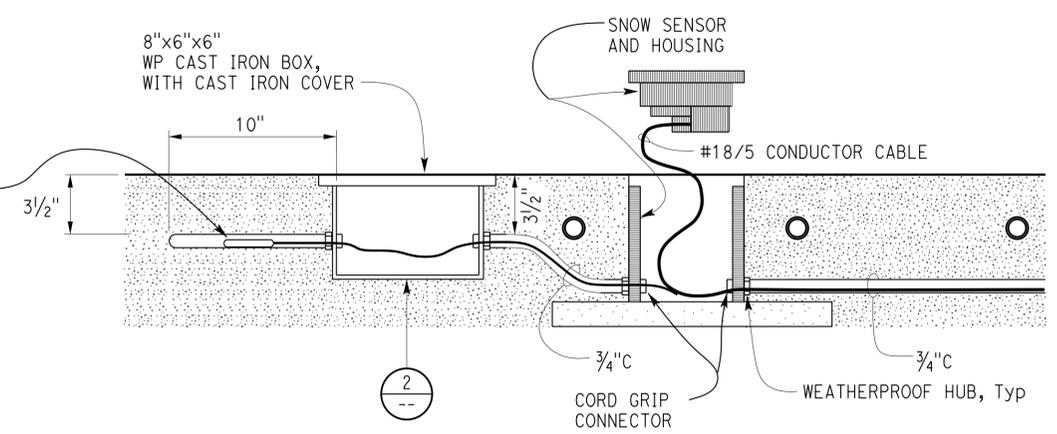
PLAN
1/4" = 1'-0"



1 HEATED SLAB DETAIL
NO SCALE



2 DETAIL
NO SCALE



3 SENSOR CABLE INSTALLATION
NO SCALE

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY	DESIGN	BY Tommy F. Lee	CHECKED Catalino Enriquez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	5726	DISTRICT 10 WASH RACKS PHASE 2		SHEET EE4-4
	DETAILS	BY Tommy F. Lee	CHECKED Tommy F. Lee			POST MILE	CAMP CONNELL M.S.	HYDRONIC HEATING SENSORS PLAN		
QUANTITIES	BY Tommy F. Lee	CHECKED Catalino Enriquez	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			0 1 2 3	UNIT PROJECT NUMBER & PHASE	3600 10120001811	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)

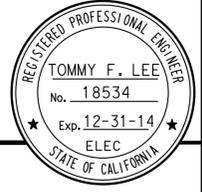
EA 0X2101

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Cal	4,88	Var	154	187

Tommy F. Lee		1-4-13
REGISTERED ELECTRICAL ENGINEER	DATE	

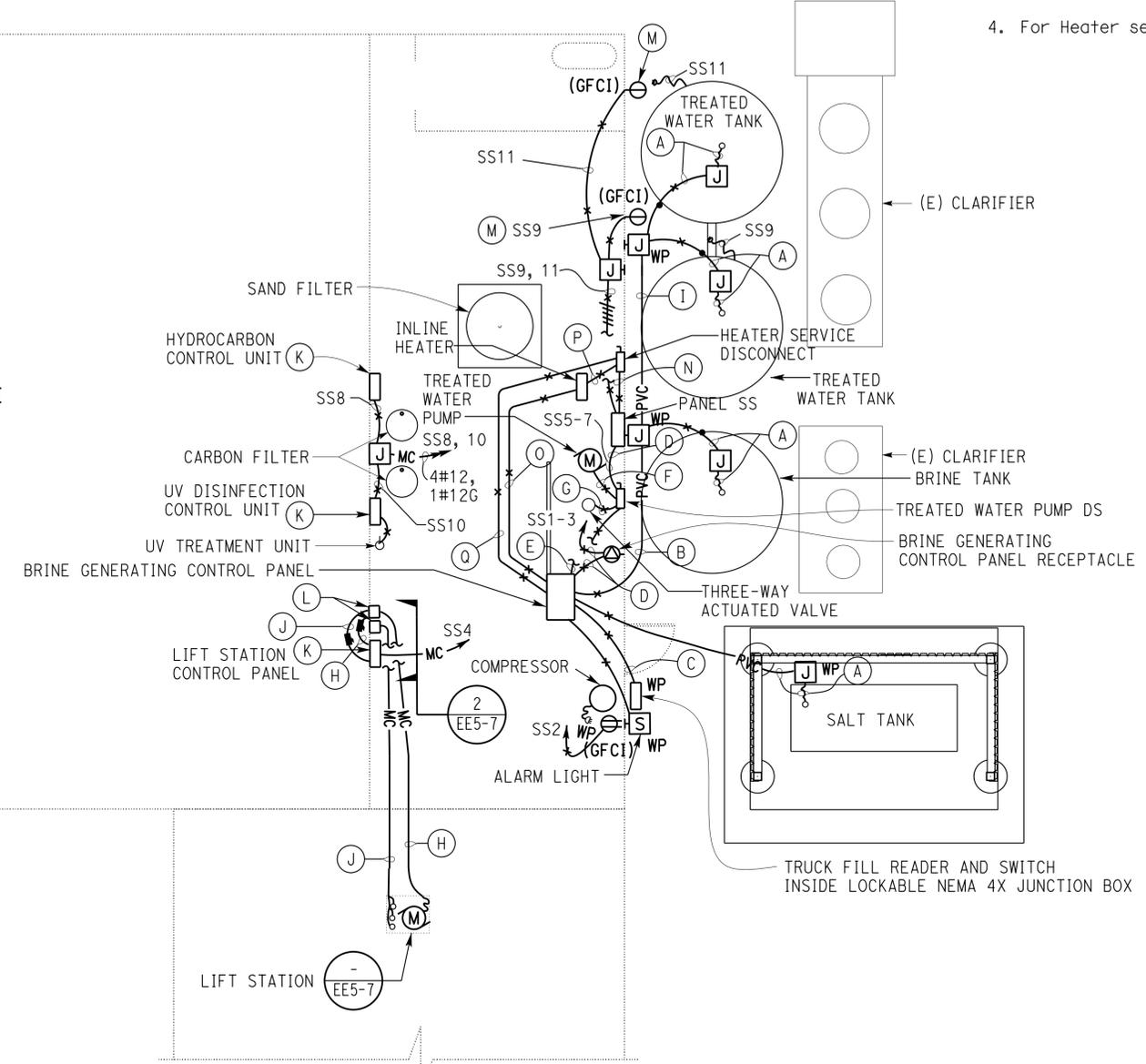
7-22-13
PLANS APPROVAL DATE

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



GENERAL NOTES:

1. Location of lift station and Inline heater are shown arbitrarily only. For exact location, see Water and Wastewater sheets.
2. For details on wall mounting of Hydrocarbon Control Panel and UV Disinfection Unit Control Panel, see Architectural sheets.
3. For "LIFT STATION PUMP CONTROL SCHEMATIC DIAGRAM" and details, see sheet EE5-7.
4. For Heater service disconnect specification, see Water and Wastewater specification.



PLAN
1" = 5'

NOTES:

- (A) Install pressure transducer cable conductor, as recommended by Brine Generating Control Panel manufacturer.
- (B) 1" C, (3) pressure transducer cable conductors.
- (C) 1" C, 6#18, 1#18 spare, 1#12G, and innerduct with a shielded communication cable with three conductors.
- (D) 1/2" C, 2#10, 1#10G
- (E) 1/2" C, 3#18, 1#12G.
- (F) 1/2" C, 3#10, 1#10G.
- (G) 1/2" C, 5#18, 1#12G.
- (H) 1" C, 2#12, 2#12 spare, 1#12G, and pump motor control cables.
- (I) 1" C, (2) pressure transducer cable conductors.
- (J) 1" C, (3) float switch cables.
- (K) Mount the control units and lift station on the wall as directed by the Engineer.
- (L) NEMA 3R junction box.
- (M) Provide weatherproof heavy duty die-cast in use cover.
- (N) 3/4" C, 2#6, 1#6G (SS13-15).
- (O) 1/2" C, a shielded communication cable with three conductors.
- (P) 1/2" C, 2#6, 1#8G.
- (Q) 1/2" C, 2#12, 1#12G.

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: *Ignacio P. Casiano*
INGRACIO P. CASIANO
Approval date: 04-10-13
CSFM No. N-12-1027, N-12-1028, N-12-1029, N-12-1030

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY	DESIGN	BY Tommy F. Lee	CHECKED Catalino Enriquez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 5726	DISTRICT 10 WASH RACKS PHASE 2 CAMP CONNELL M.S.	BRINE GENERATING STATION PLAN	SHEET EE4-5 OF
	DETAILS	BY Tommy F. Lee	CHECKED Tommy F. Lee		ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	POST MILE			
QUANTITIES	BY Tommy F. Lee	CHECKED Catalino Enriquez			UNIT PROJECT NUMBER & PHASE 3600 10120001811	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF	

TAEMWW Imperial Rev. 3/12 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 EA 0X2101

23-SEP-2013 08:29 ee4_5.dgn

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: *Ingrid P. Icastano*
 INGRID P. ICASTANO
 Approval date: 04-10-13

CSFM No.
 N-12-1027, N-12-1028,
 N-12-1029, N-12-1030

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Cal	4,88	Var	155	187

Tommy F. Lee
 REGISTERED ELECTRICAL ENGINEER
 No. 18534
 Exp. 12-31-14
 ELEC
 STATE OF CALIFORNIA

1-4-13 DATE

7-22-13
 PLANS APPROVAL DATE

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

MAIN: 125 A MAIN BREAKER
 VOLTS: 240/120 V, SINGLE PHASE, 3-WIRE
 FEEDER SIZE: 3#2/0, 1#4G
 LOCATION: EQUIPMENT BAY
 PANEL SS

DESCRIPTION	AMPERES		Brk	Ckt	A	C	Ckt	Brk	AMPERES		DESCRIPTION
	A	C							A	C	
BRINE GENERATING CONTROL PANEL	30		30/2	1	•		2	20/1	16		COMPRESSOR
		30		3	•		4			10	LIFT STATION
TREATED WATER PUMP	17		30/2	5	•		6		-		SPARE
		17		7	•		8		2		HYDROCARBON CONTROL PANEL
TREATED WATER TANK HEATER	1.5		20/1	9	•		10		1		UV DISINFECTION UNIT
TREATED WATER TANK HEATER		1.5		11	•		12		-		SPARE
INLINE HEATER	50		50/2	13	•		14		-		SPARE
		50		15	•		16		-		
SPARE	-		20/1	17	•		18		-		
	-			19	•		20		-		
	-			21	•		22		-		SPACE
	-			23	•		24				
SPACE				25	•		26				
				27	•		28				
				29	•		30				

A	C	TOTAL CONNECTED LOAD (AMPERES PER PHASE)
114.5	110.5	

MAIN: 125 A MAIN BREAKER
 VOLTS: 240/120 V, 3 PHASE, 4-WIRE
 FEEDER SIZE: 4#3/0, 1#4G
 LOCATION: ELECTRICAL ROOM AT WASH RACK
 PANEL W

DESCRIPTION	AMPERES			Brk	Ckt	A	B	C	Ckt	Brk	AMPERES			DESCRIPTION
	A	B	C								A	B	C	
PORTABLE PRESSURE WASHER	20			30/1	1	•			2		7			DOOR OPERATORS
SPACE					3	•			4	15/3		7		
PORTABLE PRESSURE WASHER			20	30/1	5	•			6			7		
SPARE	-			30/3	7	•			8		2.2			EXHAUST FAN
	-				9	•			10	15/3		2.2		
SLUDGE MONITORING SYSTEM	3			20/1	13	•			14	20/1	5			UNDERCARRIAGE WASH VEHICULAR SYSTEM
SPACE					15	•			16			30		HYDRONIC HEATING CONTROL PANEL
SETTLING TANK CONTROL PANEL			10	30/2	17	•			18	40/2		30		
	10				19	•			20	20/1	15			RECEPTACLES
SPACE					21	•			22					SPACE
RADIANT HEATER ELEC-MECH/WASH PIT			9.6	20/1	23	•			24	20/1		9		LIGHTING
BLOCK HEATER RECEPTACLE	1.5				25	•			26		-			SPARE
SPACE					27	•			28					SPACE
BLOCK HEATER RECEPTACLE			1.5	20/1	29	•			30	20/1		-		SPARE

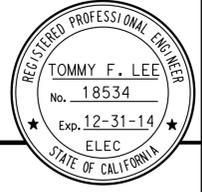
*GFCI TYPE CIRCUIT BREAKER

A	B	C	TOTAL CONNECTED LOAD (AMPERES PER PHASE)
63.7	39.2	89.3	

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY	DESIGN BY	Tommy F. Lee	CHECKED	Catalino Enriquez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO.	5726	DISTRICT 10 WASH RACKS PHASE 2 CAMP CONNELL M.S.	SHEET EE4-6
	DETAILS BY	Tommy F. Lee	CHECKED	Tommy F. Lee		ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	POST MILE			
QUANTITIES BY	Tommy F. Lee	CHECKED	Catalino Enriquez			UNIT PROJECT NUMBER & PHASE	3600 10120001811	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 4/13/12 11/9/12 1/4/13 1/29/13	SHEET OF

TAEMWW Imperial Rev. 3/12 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 EA 0X2101

23-SEP-2013 08:30 ee4_6.dgn

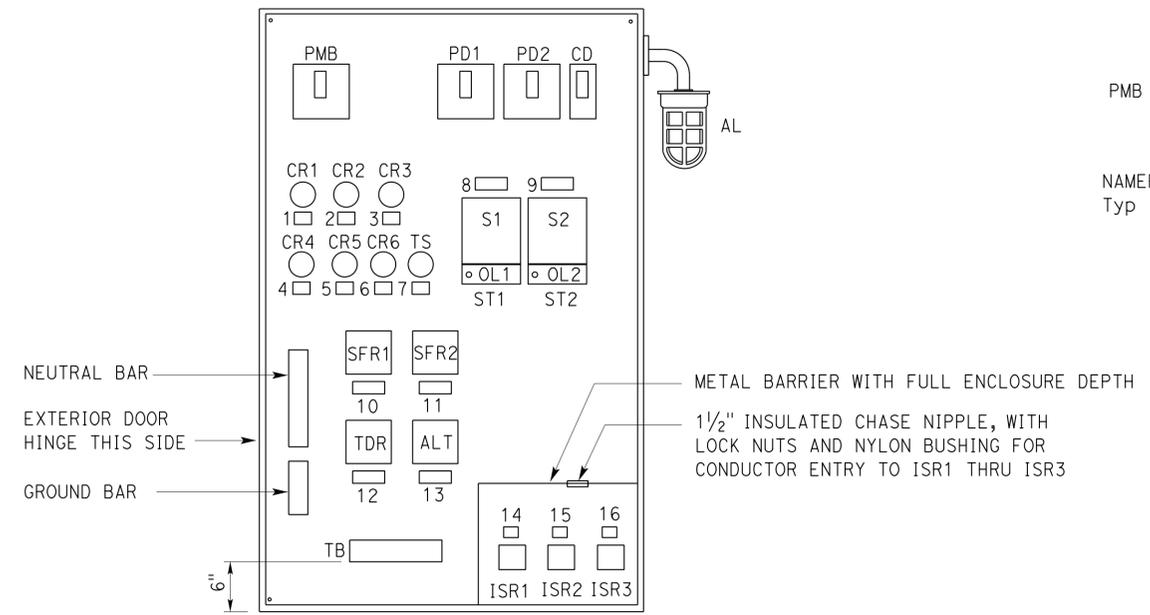


CALIFORNIA STATE FIRE MARSHAL APPROVED

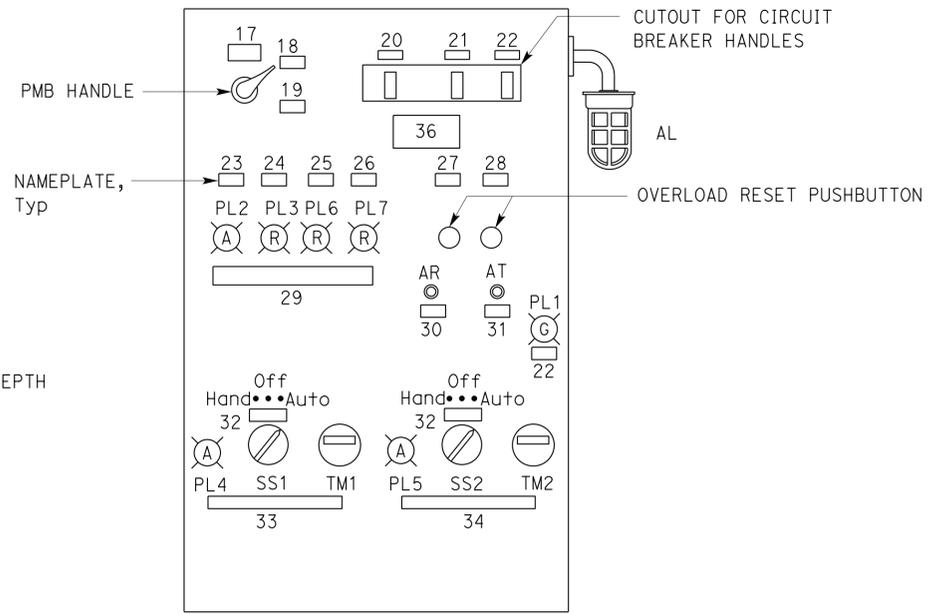
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approvals subject to field inspection. One set of approved plans shall be available on the project site at all times.

Reviewed by: *Ingrid P. Casiano*
INGRID P. CASIANO
Approval date: 04-10-13

CSFM No. N-12-1027, N-12-1028, N-12-1029, N-12-1030



(CONTROL PANEL EXTERIOR DOOR AND HINGED INTERIOR DEADFRONT PANEL NOT SHOWN)



(CONTROL PANEL EXTERIOR DOOR NOT SHOWN, HINGED INTERIOR DEADFRONT PANEL CLOSED)

A ELEVATION
NO SCALE

NOTE:
A Install nameplate item 35 on exterior door.

NAMEPLATE SCHEDULE					
ITEM No.	INSCRIPTION	LETTER HEIGHT	ITEM No.	INSCRIPTION	LETTER HEIGHT
1	CR1	1/4"	20	PUMP No. 1	1/4"
2	CR2	1/4"	21	PUMP No. 2	1/4"
3	CR3	1/4"	22	CONTROL	1/4"
4	CR4	1/4"	23	LOW WATER	1/4"
5	CR5	1/4"	24	HIGH WATER	1/4"
6	CR6	1/4"	25	SEAL FAILURE PUMP 1	1/4"
7	ON/OFF TIMER	1/4"	26	SEAL FAILURE PUMP 2	1/4"
8	ST1	1/4"	27	RESET PUMP No. 1	1/4"
9	ST2	1/4"	28	RESET PUMP No. 2	1/4"
10	SFR1	1/4"	29	ALARMS	1/4"
11	SFR2	1/4"	30	ALARM RESET	1/4"
12	TDR	1/4"	31	ALARM TEST	1/4"
13	ALTERNATOR	1/4"	32	HAND OFF AUTO	1/4"
14	ISR1	1/4"	33	PUMP No. 1	3/8"
15	ISR2	1/4"	34	PUMP No. 2	3/8"
16	ISR3	1/4"	35	SETTLING TANK PUMP CONTROL PANEL	3/8"
17	MAIN	1/4"			
18	ON	1/4"			
19	OFF	1/4"			

WARNING NAMEPLATE		
ITEM No.	INSCRIPTION	LETTER HEIGHT
36	WARNING: MOTOR DISCONNECT DOES NOT OPEN CONTROL CIRCUIT	3/8"

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Calif	4,88	Var	157	187

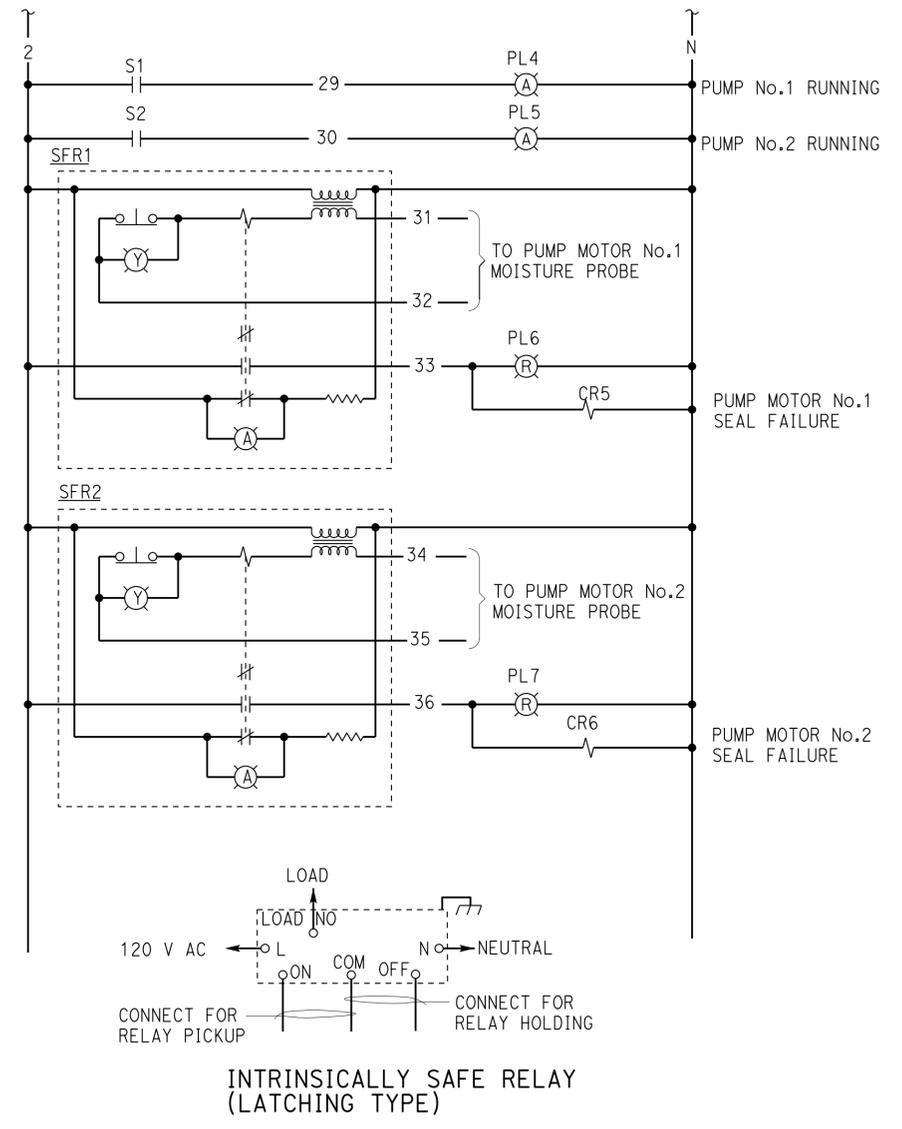
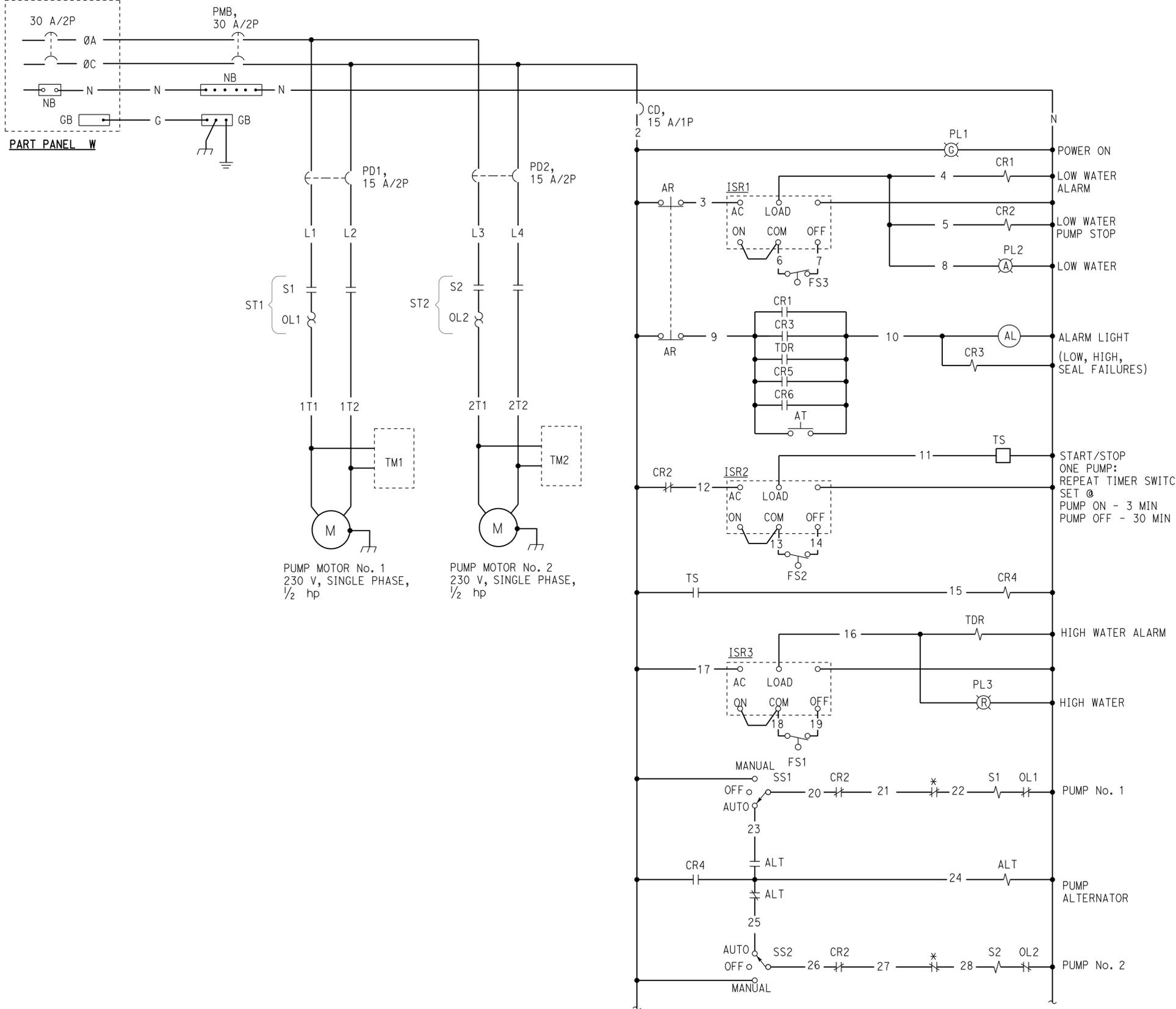
Reviewed by: <i>Tommy F. Lee</i> REGISTERED ELECTRICAL ENGINEER	DATE: 1-4-13
PLANS APPROVAL DATE: 7-22-13	
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.	

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: *Ingri P. Casiano*
INGRI P. CASIANO
Approval date: 04-10-13

CSFM No. N-12-1027, N-12-1028, N-12-1029, N-12-1030



* MOTOR INTEGRAL THERMAL PROTECTION

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY		DESIGN BY Tommy F. Lee	CHECKED Catalino Enriquez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. VARIOUS	DISTRICT 10 WASH RACKS PHASE 2 SETTling TANK PUMP CONTROL SCHEMATIC DIAGRAM	SHEET EE5-2	
		DETAILS BY Tommy F. Lee	CHECKED Tommy F. Lee		ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	POST MILE			
		QUANTITIES BY Tommy F. Lee	CHECKED Catalino Enriquez		UNIT PROJECT NUMBER & PHASE 3600 10120001811	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
TAEMWW Imperial Rev. 3/12		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3				8/22/12 11/9/12 12/21/12 1/4/13 1/7/13			

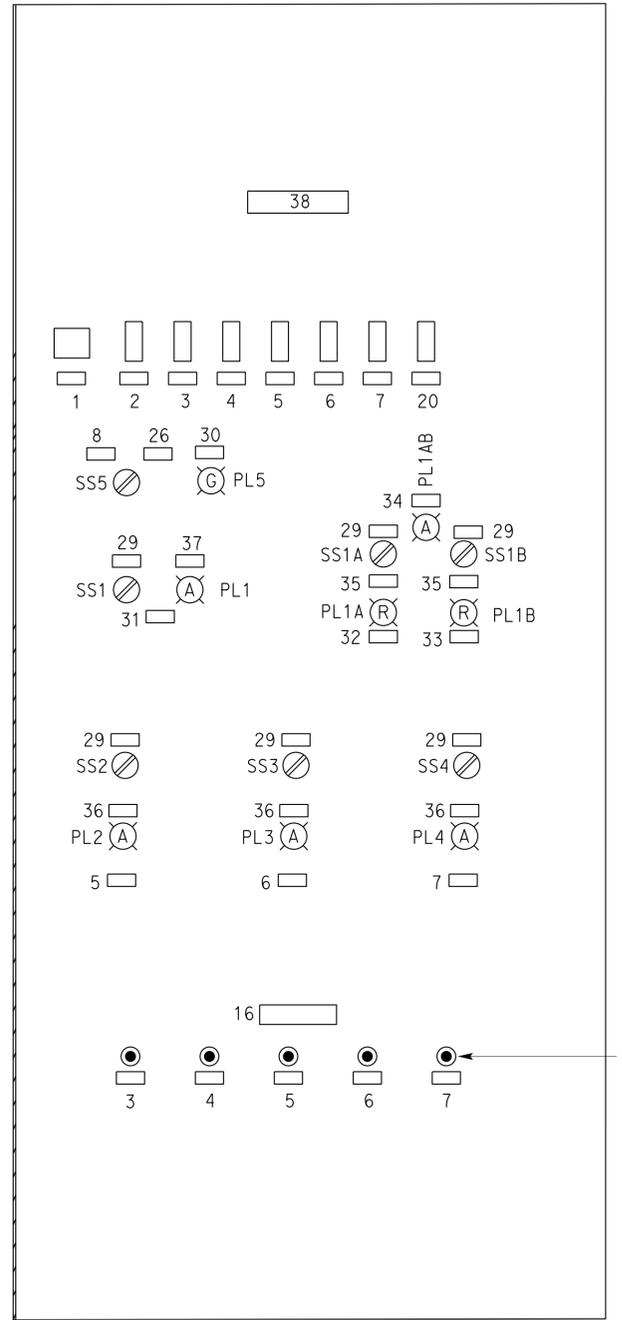
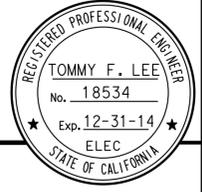
23-SEP-2013 09:36 ee5_2.dgn

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Cal	4,88	Var	158	187

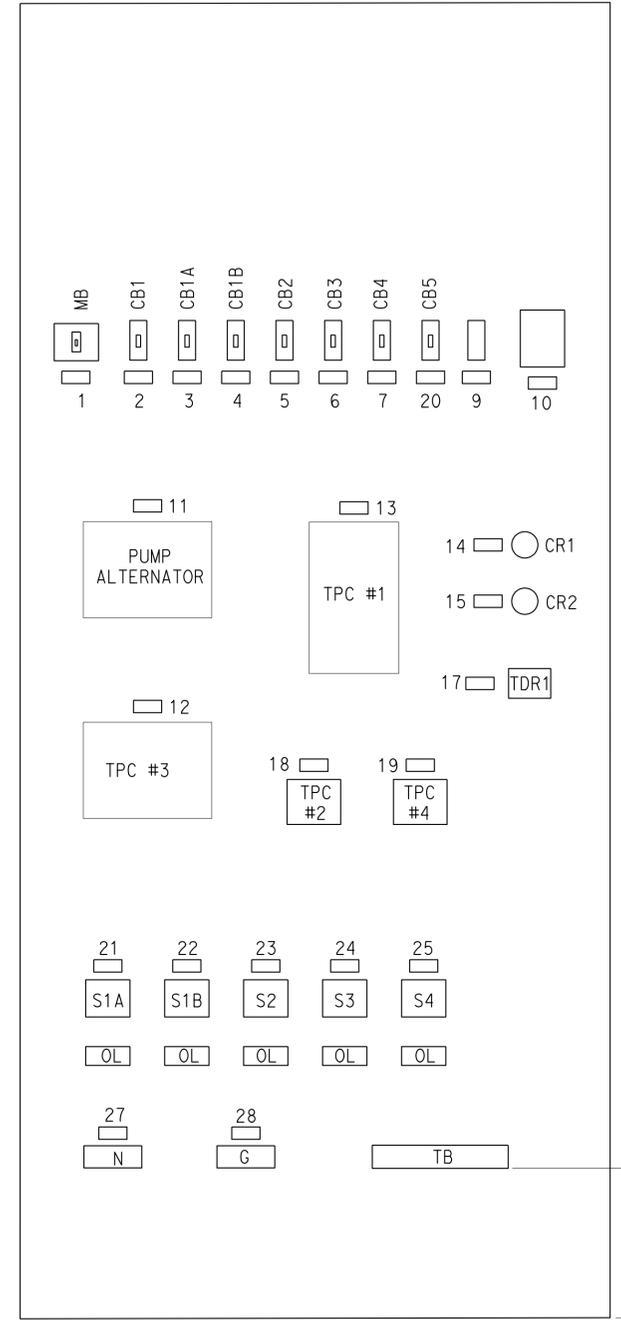
Tommy F. Lee
REGISTERED ELECTRICAL ENGINEER
DATE 1-4-13

7-22-13
PLANS APPROVAL DATE

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



HINGED DOOR



BACK MOUNTING PANEL

CONTROL PANEL LAYOUT
NO SCALE

GENERAL NOTE:
Size cabinet as required to fit all devices.

NAMEPLATE SCHEDULE			
TAG No.	TYPE	INSCRIPTION	LETTER HEIGHT
1	PLATE	MAIN CB	3/8"
2	PLATE	BOILER CONTROL	1/4"
3	PLATE	PUMP 1A	1/4"
4	PLATE	PUMP 1B	1/4"
5	PLATE	SNOW MELT PUMP	1/4"
6	PLATE	WASH PAD AND EQUIP. ROOM PUMP	1/4"
7	PLATE	SUMP PIT AND RAMP PUMP	1/4"
8	PLATE	INFRARED HEATER	1/4"
9	PLATE	24 V XFORMER OVERLOAD	1/4"
10	PLATE	120/24 V XFORMER	1/4"
11	PLATE	PUMP ALTERNATOR	1/4"
12	PLATE	TPC SNOW MELT	1/4"
13	PLATE	TPC HEAT ENABLE	1/4"
14	PLATE	CR1	1/4"
15	PLATE	CR2	1/4"
16	PLATE	OL RESET	1/4"
17	PLATE	TDR1	1/4"
18	PLATE	TPC WASH PAD AND EQUIP. ROOM	1/4"
19	PLATE	TPC SUMP PIT AND RAMP	1/4"
20	PLATE	RADIANT/HYDRONIC HEATING CONTROL	1/4"
21	PLATE	ST PUMP 1A	1/4"
22	PLATE	ST PUMP 1B	1/4"
23	PLATE	ST WASH PAD AND EQUIP. ROOM	1/4"
24	PLATE	ST SNOW MELT	1/4"
25	PLATE	ST SUMP PIT AND RAMP	1/4"
26	PLATE	HYDRONIC HEATER	1/4"
27	PLATE	NEUTRAL	1/4"
28	PLATE	GROUND	1/4"
29	RING	HAND-OFF-AUTO	1/4"
30	RING	POWER	3/8"
31	PLATE	HYDRONIC HEAT ENABLE	1/4"
32	PLATE	MAIN PUMP 1A	1/4"
33	PLATE	MAIN PUMP 1B	1/4"
34	RING	MAIN PUMP RUN	1/4"
35	RING	PUMP FAILED	1/4"
36	RING	PUMP RUN	1/4"
37	RING	ENABLED	1/4"
38	PLATE	HYDRONIC HEATING CONTROL PANEL	3/8"

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: *David P. Casiano*
INGRUB P. CASIANO
Approval date: 04-10-13

CSFM No. N-12-1027, N-12-1028, N-12-1029, N-12-1030

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY	DESIGN	BY Tommy F. Lee	CHECKED Catalino Enriquez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	DISTRICT 10 WASH RACKS PHASE 2	SHEET EE5-3
	DETAILS	BY Tommy F. Lee	CHECKED Tommy F. Lee			VARIOUS		
QUANTITIES	BY Tommy F. Lee	CHECKED Catalino Enriquez	POST MILE					
TAEMWW Imperial Rev. 3/12	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	UNIT PROJECT NUMBER & PHASE	3600 10120001811	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	1/4/13	SHEET OF

FOR CONTINUATION, SEE
EE5-4

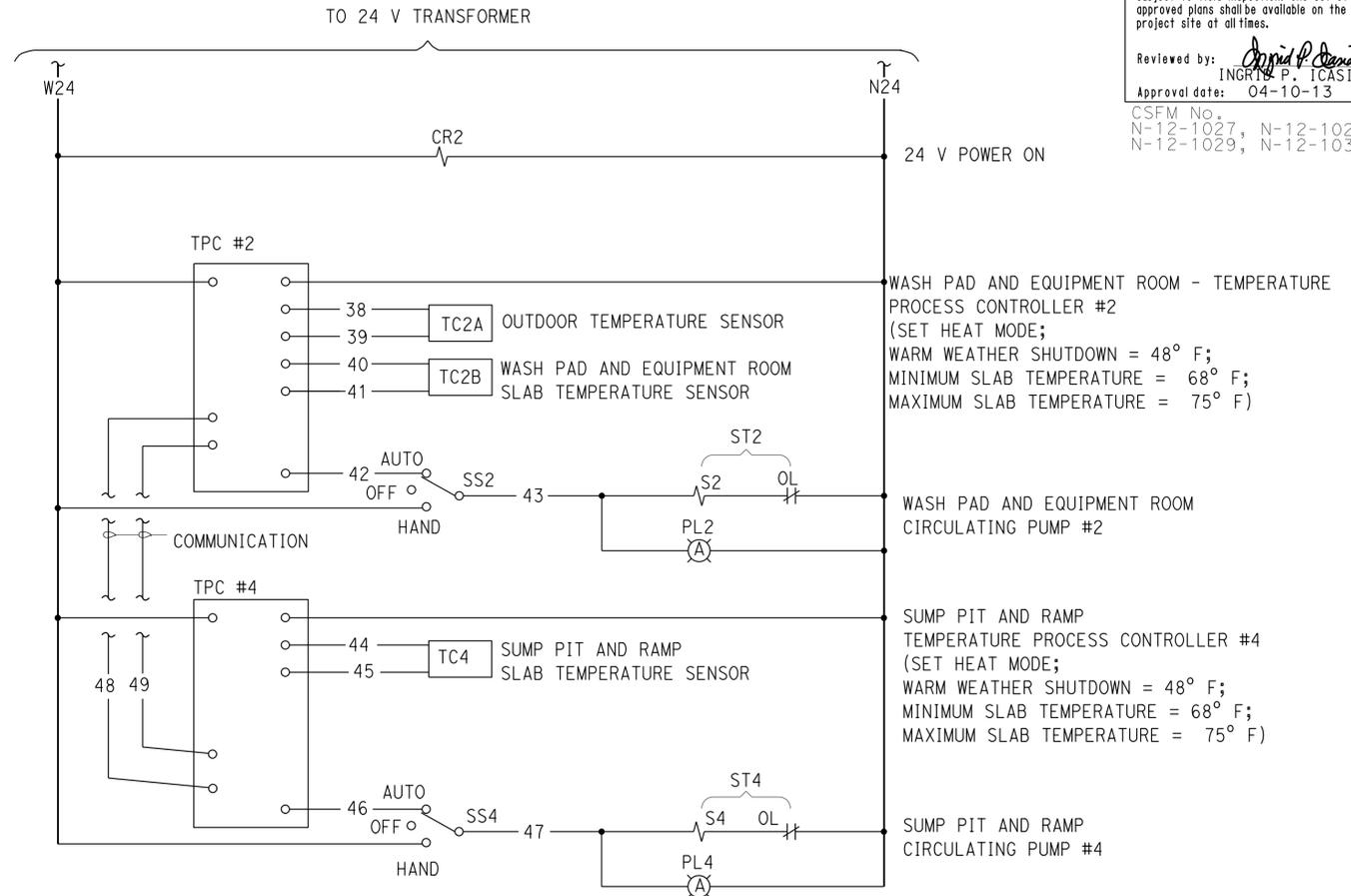
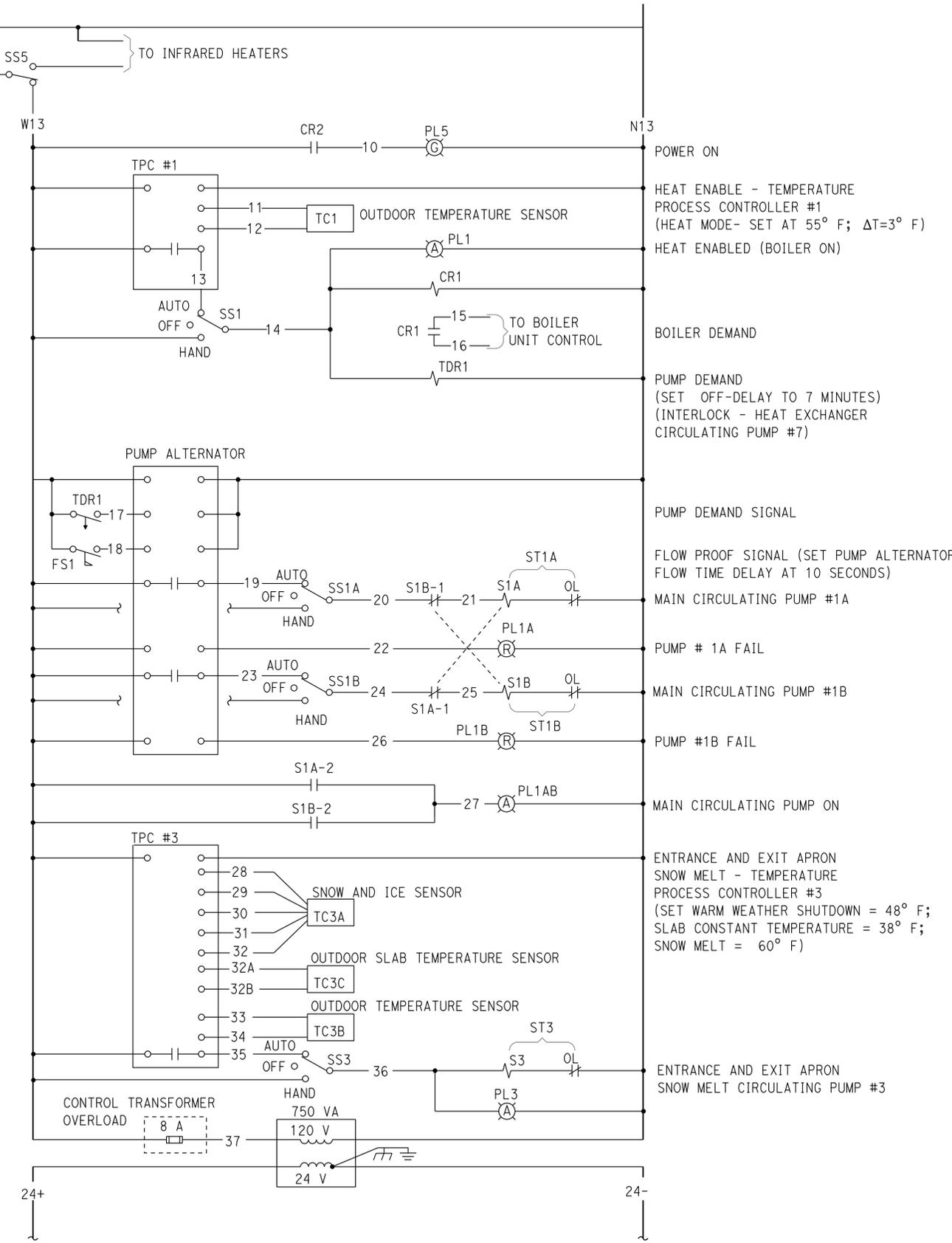
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Cal	4,88	Var	160	187

Tommy F. Lee
REGISTERED ELECTRICAL ENGINEER
DATE 1-4-13

7-22-13
PLANS APPROVAL DATE

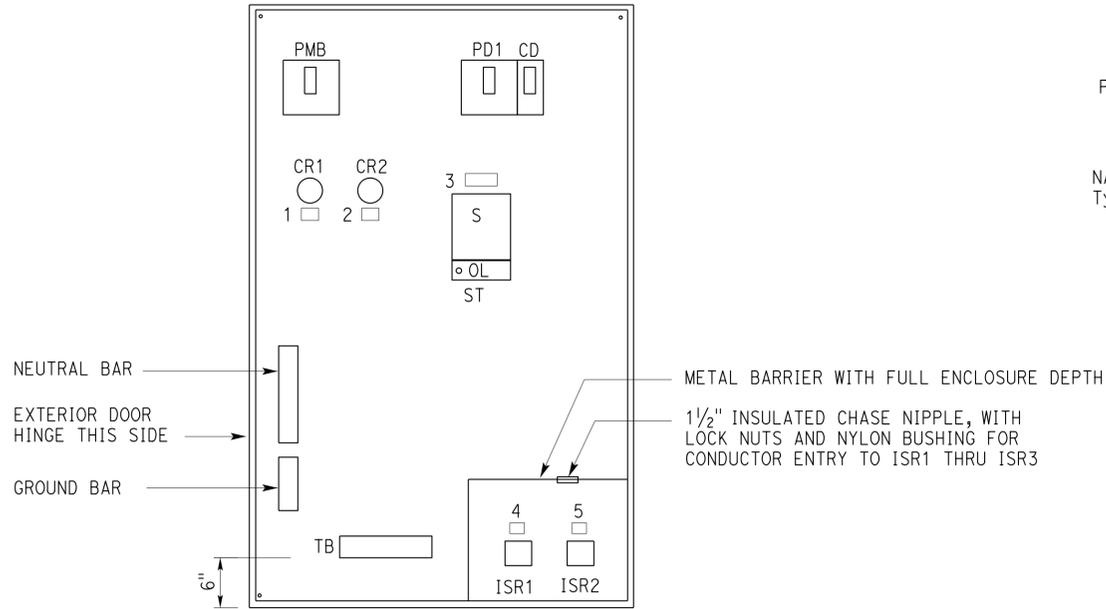
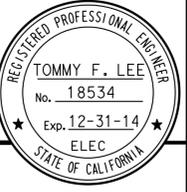
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.

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: *Ingrid P. Casiano*
INGRID P. CASIANO
Approval date: 04-10-13
CSFM No. 5, N-12-1027, N-12-1028, N-12-1029, N-12-1030

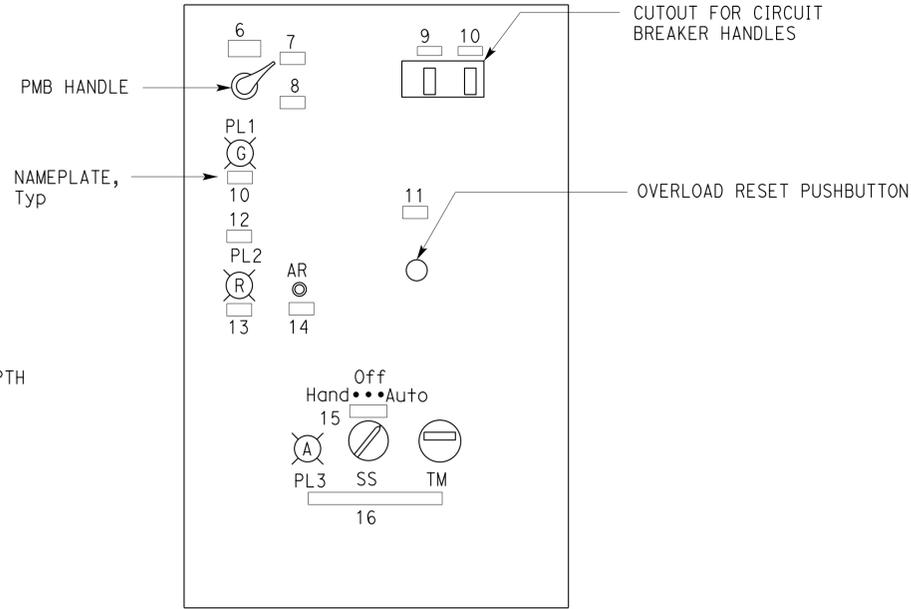


THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY		DESIGN BY Tommy F. Lee	CHECKED Catalino Enriquez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. VARIOUS	DISTRICT 10 WASH RACKS PHASE 2 HYDRONIC HEATING SCHEMATIC DIAGRAM 2	SHEET EE5-5	
		DETAILS BY Tommy F. Lee	CHECKED Tommy F. Lee		ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	POST MILE			
		QUANTITIES BY Tommy F. Lee	CHECKED Catalino Enriquez						
TAEMWW Imperial Rev. 3/12	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0	1	2	3	UNIT PROJECT NUMBER & PHASE 3600 10120001811	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF

23-SEP-2013 09:37 ee5_5.dgn



(CONTROL PANEL EXTERIOR DOOR AND HINGED INTERIOR DEADFRONT PANEL NOT SHOWN)



(CONTROL PANEL EXTERIOR DOOR NOT SHOWN, HINGED INTERIOR DEADFRONT PANEL CLOSED)

A ELEVATION
NO SCALE

NOTE:

- (A) Install nameplate item 17 on exterior door.

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: *Ingrid P. Castano*
INGRID P. CASTANO
Approval date: 04-10-13
CSFM No. N-12-1027, N-12-1028, N-12-1029, N-12-1030

NAMEPLATE SCHEDULE		
ITEM No.	INSCRIPTION	LETTER HEIGHT
1	CR1	1/4"
2	CR2	1/4"
3	ST1	1/4"
4	ISR1	1/4"
5	ISR2	1/4"
6	MAIN	1/4"
7	ON	1/4"
8	OFF	1/4"
9	SUMP PUMP	1/4"
10	CONTROL	1/4"
11	RESET SUMP PUMP	1/4"
12	HIGH WATER	1/4"
13	ALARM	1/4"
14	ALARM RESET	1/4"
15	HAND OFF AUTO	1/4"
16	SUMP PUMP	3/8"
17 (A)	SUMP PUMP CONTROL PANEL	3/8"

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY

DESIGN	BY Tommy F. Lee	CHECKED Catalino Enriquez
DETAILS	BY Tommy F. Lee	CHECKED Tommy F. Lee
QUANTITIES	BY Tommy F. Lee	CHECKED Catalino Enriquez

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

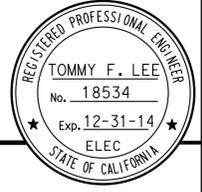
DIVISION OF ENGINEERING SERVICES
ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE NO. VARIOUS
POST MILE

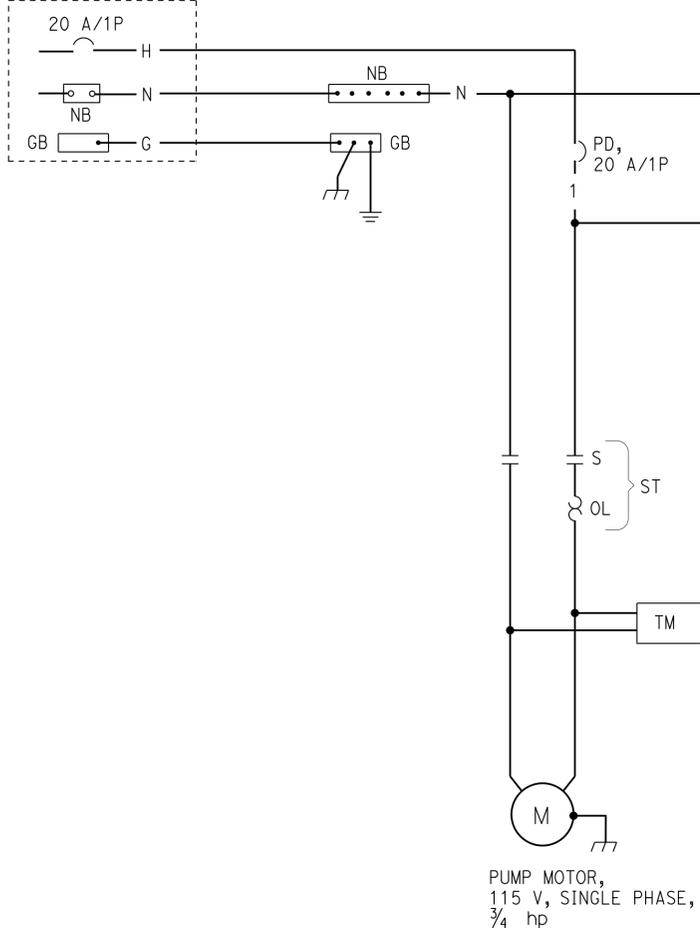
DISTRICT 10 WASH RACKS PHASE 2

LIFT STATION PUMP CONTROL PANEL

SHEET EE5-6 OF



PARTIAL PANEL SS



GENERAL NOTE:

- For float switch elevations, see Water and Wastewater sheets.

NOTE:

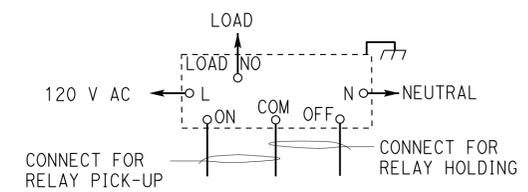
- (A) Coil minimum 5 feet of each cable and attach the coiled cables to pump rail hook. Pump rail is not shown for clarity.

CALIFORNIA STATE FIRE MARSHAL APPROVED

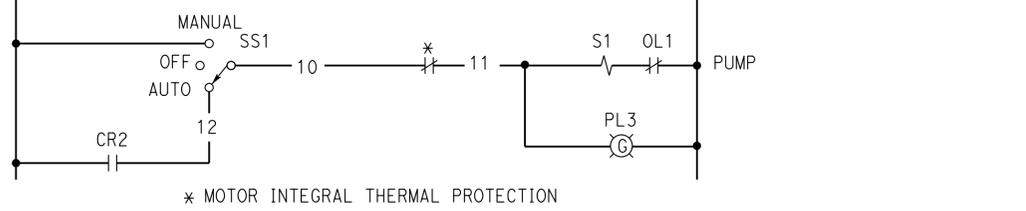
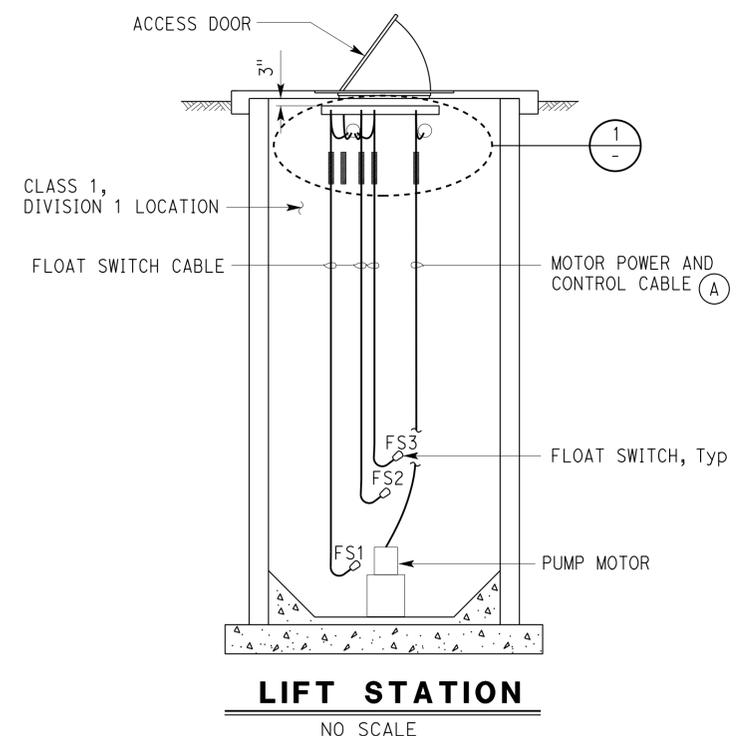
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

Reviewed by: *Ingrid P. Casiano*
INGRID P. CASIANO
Approval date: 04-10-13

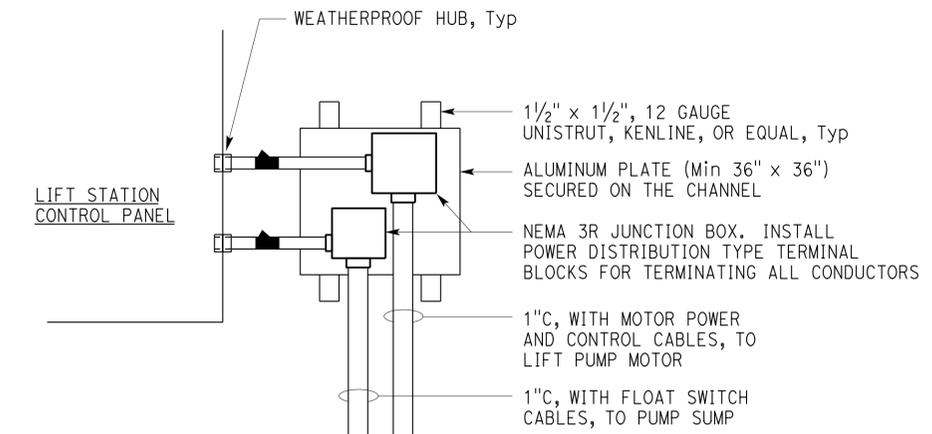
CSFM No. N-12-1027, N-12-1028, N-12-1029, N-12-1030



INTRINSICALLY SAFE RELAY (LATCHING TYPE)



1 CABLE MOUNTING DETAIL
NO SCALE



2 JUNCTION BOXES MOUNTING DETAIL
NO SCALE

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY

DESIGN	BY Tommy F. Lee	CHECKED Catalino Enriquez
DETAILS	BY Tommy F. Lee	CHECKED Tommy F. Lee
QUANTITIES	BY Tommy F. Lee	CHECKED Catalino Enriquez

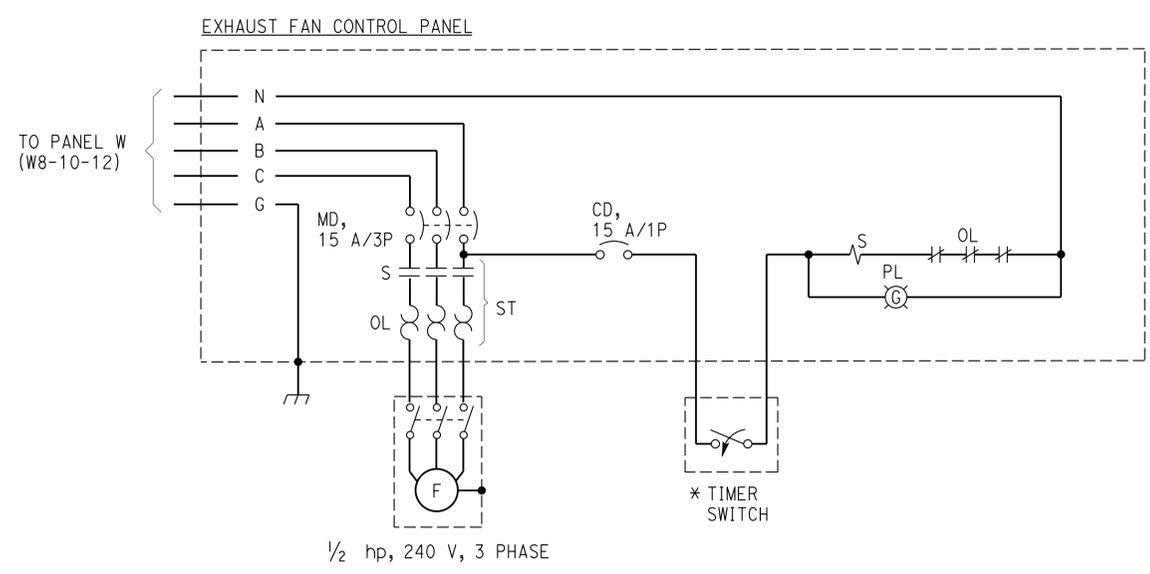
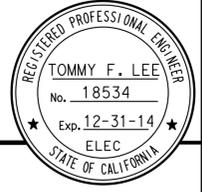
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO. VARIOUS
POST MILE DISTRICT 10 WASH RACKS PHASE 2
LIFT STATION PUMP CONTROL SCHEMATIC DIAGRAM

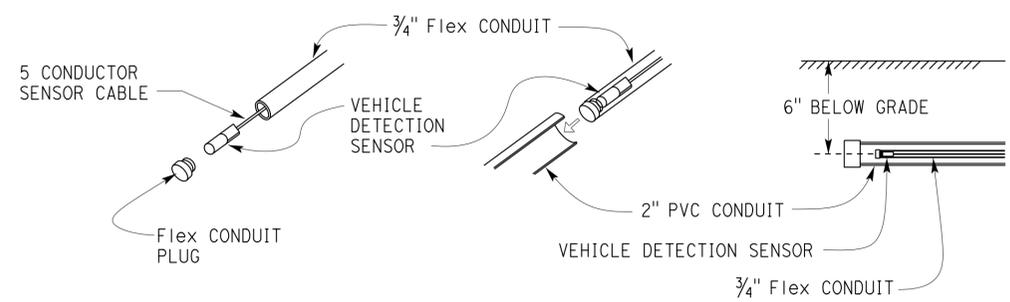
SHEET EE5-7 OF

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Cal	4,88	Var	163	187
Tommy F. Lee				1-4-13	
REGISTERED ELECTRICAL ENGINEER				DATE	
				7-22-13	
				PLANS APPROVAL DATE	
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					



* Install warning sign near each device.
Warning sign shall read:
"BEFORE WASHING VEHICLES,
ENERGIZE EXHAUST FAN"

EXHAUST FAN WIRING DIAGRAM



BELOW GRADE INSTALLATION FOR UNDERCARRIAGE WASH VEHICLE DETECTION SENSOR

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.

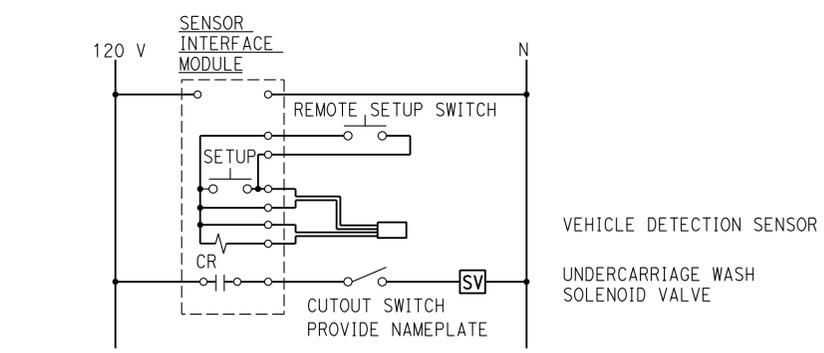
Reviewed by: *Ingrid P. Casiano*
INGRID P. CASIANO

Approval date: 04-10-13

CSFM No. N-12-1027, N-12-1028, N-12-1029, N-12-1030



WARNING PLATE DETAIL



WIRING DIAGRAM FOR UNDERCARRIAGE WASH VEHICLE DETECTION SENSOR

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY	DESIGN	BY Tommy F. Lee	CHECKED Catalino Enriquez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	DISTRICT 10 WASH RACKS PHASE 2	SHEET EE5-8
	DETAILS	BY Tommy F. Lee	CHECKED Tommy F. Lee			VARIOUS		
	QUANTITIES	BY Tommy F. Lee	CHECKED Catalino Enriquez			POST MILE	DETAILS	
TAEMWW Imperial Rev. 3/12	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			0 1 2 3	UNIT PROJECT NUMBER & PHASE 3600 10120001811	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
							6/28/12 10/28/12 11/28/12 12/28/12 1/4/13	ee5_8.dgn

ABBREVIATIONS:

A	AIR	IN	INCH
AB	AGGREGATE BASE	JB	JUNCTION BOX
AC	ASPHALT CONCRETE	KW	KILOWATT
B	BUNG	L	LENGTH
BLDG	BUILDING	LB	POUND
C	CONDUIT	LS	LANDSCAPE IRRIGATION
C-C	CENTER TO CENTER	LT	LEFT
CFS	CUBIC FEET PER SECOND	MAX	MAXIMUM
CI	CAST IRON	MBV	MOTORIZED BALL VALVE
CL	CHAIN LINK	MH	MANHOLE
CMP	CORRUGATED METAL PIPE	MIN	MINIMUM
CONC	CONCRETE	(N)	NEW
CONT	CONTINUATION	N	NORTH
COTF	CLEANOUT TO FLOOR	NB	NORTHBOUND
COTG	CLEANOUT TO GRADE	NIC	NOT IN CONTRACT
CPLG	COUPLING	NO	NUMBER
CW	COLD WATER PIPE	NPS	NATIONAL PIPE SIZE
D	DRAIN	OC	ON CENTER
DBH	DIAMETER AT BREAST HEIGHT	OD	OUTSIDE DIAMETER
DI	DRAIN INLET	OG	ORIGINAL GROUND
DIA	DIAMETER	P	PITCH
DP	DRAIN PIPE	PCC	PORTLAND CEMENT CONCRETE
E	ELECTRICAL	PH	PHASE
(E)	EXISTING	PRV	PRESSURE REDUCING VALVE
EA	EACH	PVC	POLYVINYL CHLORIDE
EL	ELEVATION	R	RADIUS
EP	EDGE OF PAVEMENT	RCP	REINFORCED CONCRETE PIPE
EPDM	ETHYLENE PROPYLENE DIMONOMER PIPE	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	R/W	RIGHT-OF-WAY
FM	FORCE MAIN	S	SEWER
FOC	FACE OF CONCRETE	SB	SOUTHBOUND
FS	FLOW SWITCH	SCH	SCHEDULE
FT	FEET	SD	STORM DRAIN
FTR	FLUE THROUGH ROOF	SP	SEWER PIPE
GA	GAUGE	SQ	SQUARE
GAC	GRANULAR ACTIVATED CARBON	SS	STAINLESS STEEL
GAL	GALLON	STA	STATION
GPM	GALLONS PER MINUTE	STD	STANDARD BENCH MARK
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	UV	ULTRAVIOLET
HF	HOSE FAUCET	VAC	VOLTS AC
HMA	HOT MIX ASPHALT	VCP	VITRIFIED CLAY PIPE
HP	HORSEPOWER	W	WATER
ID	INSIDE DIAMETER	W/O	WITHOUT
IE	INVERT ELEVATION (IN FEET)	WP	WATER PIPE
		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		BENCHMARK ELEVATION
	DRAIN		CENTERLINE
	RETURN DRAIN		DIAMETER
	VENT		SECTION / ELEVATION LETTER
	WATER		SHEET NUMBER
	FORCE MAIN		TREE
	LEACH LINES		DIRECTION OF TRAFFIC
	ELECTRICAL LINES		

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Cal	4,88	Var	164	187

Jerome R. Marcotte 1/14/13
 REGISTERED CIVIL ENGINEER DATE

7-22-13
 PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned 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: *Ingrid P. Casiano*
 INGRID P. CASIANO
 Approval date: 04-10-13

CSFM No. N-12-1027, N-12-1028, N-12-1029, N-12-1030

REQUIRED THRUST BLOCK BEARING AREA FOR WATER LINES AND FORCE MAINS				
TOTAL SQUARE FEET				
TYPE OF FITTING	90° BEND	45° BEND	11-1/4° BEND 22-1/2° BEND	TEE OR DEAD END
TYPICAL INSTALLATION				
PIPE SIZE	≤4"	2'	1'	2'
	6"	4'	2'	3'
	8"	8'	4'	5'

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	Amar Baidwan	CHECKED	Jerry Marcotte	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	DISTRICT 10 WASHRACKS PHASE 2	WOODSFORD M. S. PEDDLER HILL M. S. PINE GROVE M. S. CAMP CONNELL M. S.	NOTES, LEGEND & ABBREVIATION	SHEET	OF
	DETAILS	BY	Amar Baidwan	CHECKED			Jerry Marcotte				VARIOUS	SS0-1
	QUANTITIES	BY	Amar Baidwan	CHECKED			Jerry Marcotte				POST MILE	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3
 UNIT PROJECT NUMBER & PHASE: 3616 10120001811
 DISREGARD PRINTS BEARING EARLIER REVISION DATES: 4-28-12, 5-25-12, 6-27-12, 7-28-12, 11-14-13
 REVISION DATES (PRELIMINARY STAGE ONLY):
 TAEMWW Imperial Rev. 3/12
 EA 0X2101
 23-SEP-2013 09:37
 ss0_1.dgn

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Cal	4,88	Var	165	187

<i>Serome R. Marcotte</i>		1/14/13
REGISTERED CIVIL ENGINEER		DATE

7-22-13
PLANS APPROVAL DATE

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

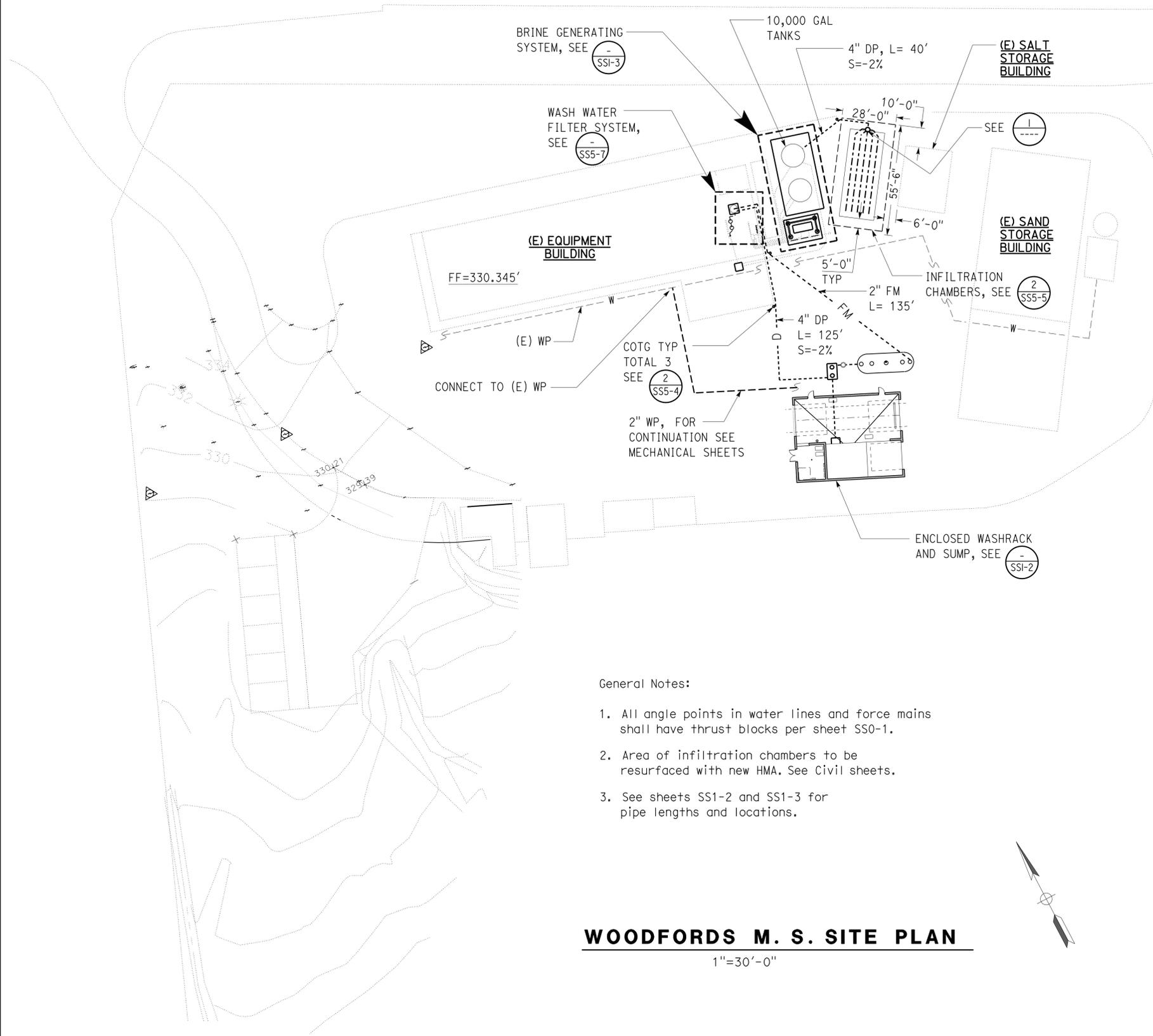


CALIFORNIA STATE FIRE MARSHAL APPROVED

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.

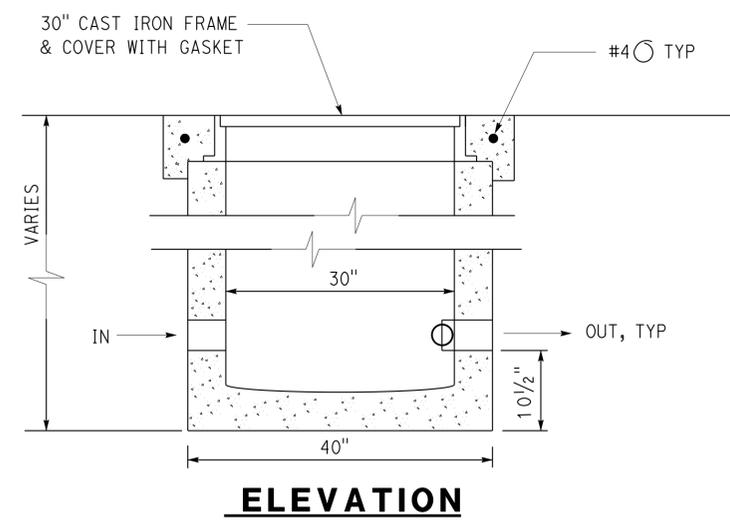
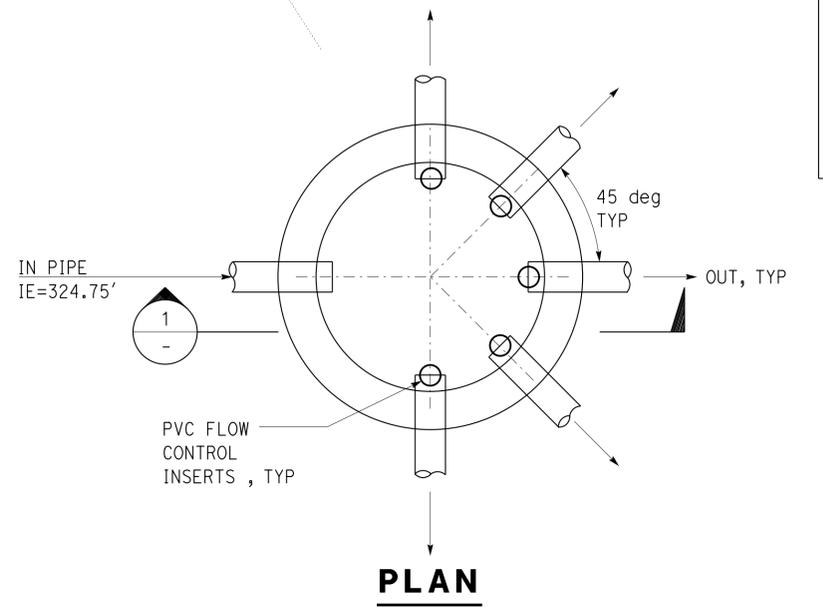
Reviewed by: *Ingrid P. Casiano*
INGRID P. CASIANO
Approval date: 04-10-13

CSFM No.
N-12-1027, N-12-1028,
N-12-1029, N-12-1030



- General Notes:
1. All angle points in water lines and force mains shall have thrust blocks per sheet SS0-1.
 2. Area of infiltration chambers to be resurfaced with new HMA. See Civil sheets.
 3. See sheets SS1-2 and SS1-3 for pipe lengths and locations.

WOODFORDS M. S. SITE PLAN
1"=30'-0"



1 DISTRIBUTION BOX
NO SCALE

DESIGN SUPERVISOR <i>Serome R. Marcotte</i> DESIGN ENGINEER	DESIGN	BY Amar Baidwan	CHECKED Jerry Marcotte
	DETAILS	BY Amar Baidwan	CHECKED Jerry Marcotte
	QUANTITIES	BY Amar Baidwan	CHECKED Jerry Marcotte

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO. 5725
POST MILE

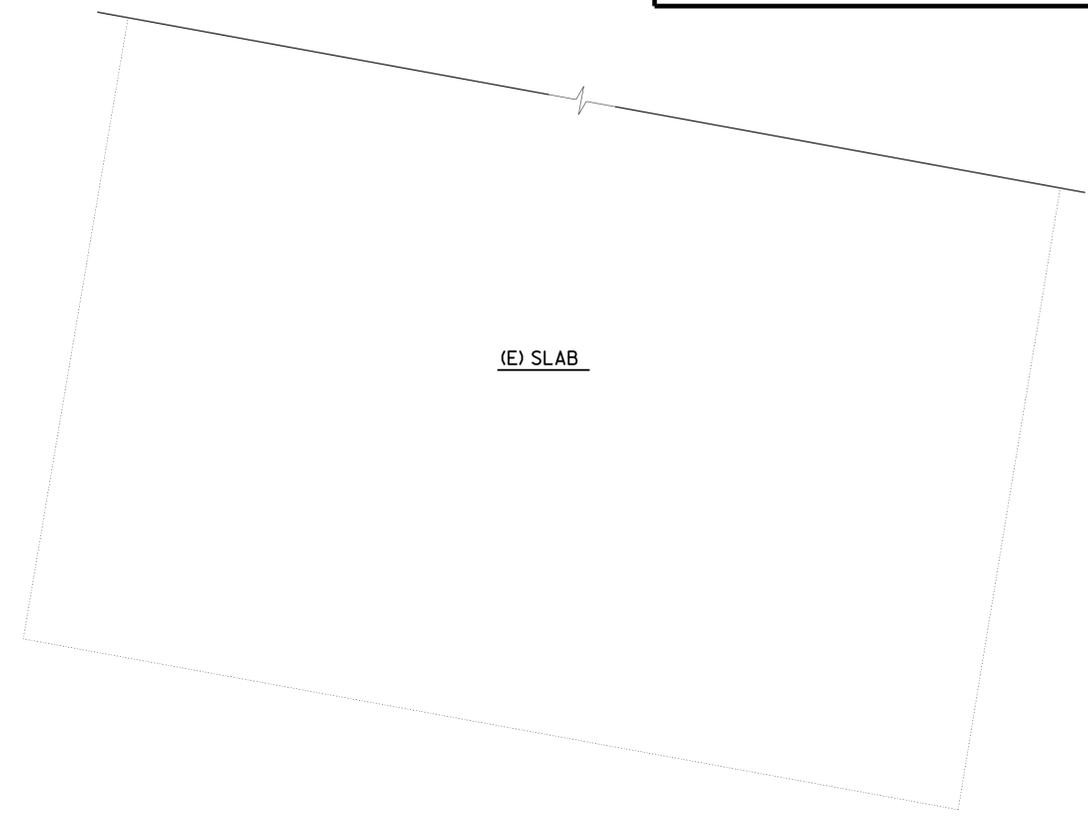
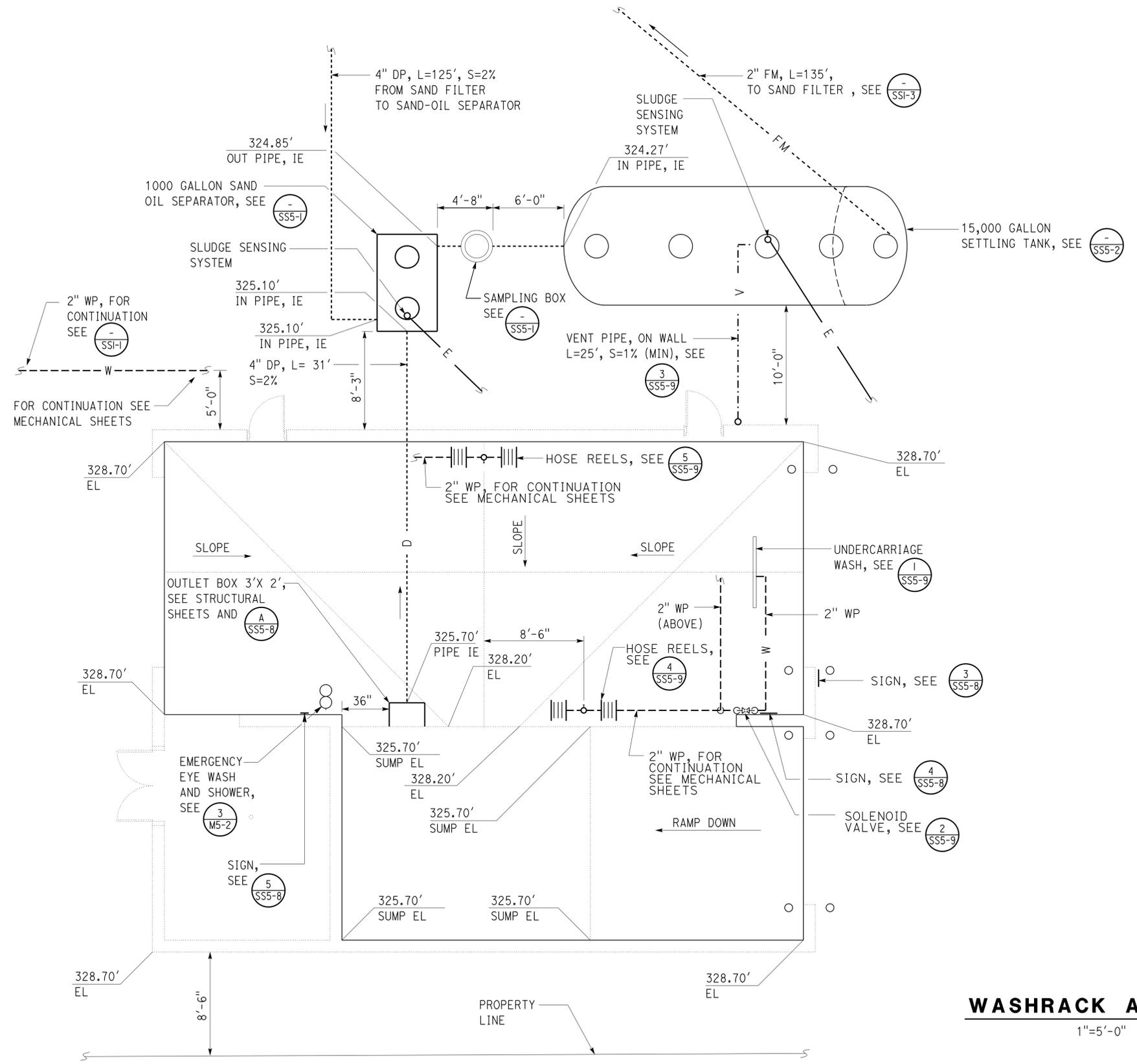
DISTRICT 10 WASHRACKS PHASE 2
WOODFORDS M. S.
MODIFIED SITE PLAN

SHEET **SS1-1** OF

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Cal	4,88	Var	166	187

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>Ingrid P. Casiano</i> INGRID P. CASIANO Approval date: 04-10-13	1/14/13 DATE
CSFM No. N-12-1027, N-12-1028, N-12-1029, N-12-1030	

<i>Serome R. Marcotte</i> REGISTERED CIVIL ENGINEER	J. Marcotte No. C36844 Exp. 06/30/14 CIVIL STATE OF CALIFORNIA
7-22-13 PLANS APPROVAL DATE	
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.	



WASHRACK AND SUMP
1"=5'-0"

TAEMWW Imperial Rev. 3/12	DESIGN BY <i>Amar Baidwan</i> CHECKED <i>Jerry Marcotte</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 5725	DISTRICT 10 WASHRACKS PHASE 2		SHEET SS1-2
	DETAILS BY <i>Amar Baidwan</i> CHECKED <i>Jerry Marcotte</i>		PROJECT NUMBER & PHASE 10120001811	POST MILE WOODFORDS M. S.	WASHRACK AND SUMP		
	QUANTITIES BY <i>Amar Baidwan</i> CHECKED <i>Jerry Marcotte</i>	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3616 10120001811	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 4-28-12 5-25-12 6-27-12 7-26-12 11-09-12 11-14-13		SHEET OF

23-SEP-2013 08:43 ss1_2.dgn

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: *[Signature]*
 INGRID P. ICASIANO
 Approval date: 04-10-13

CSFM No.
 N-12-1027, N-12-1028,
 N-12-1029, N-12-1030

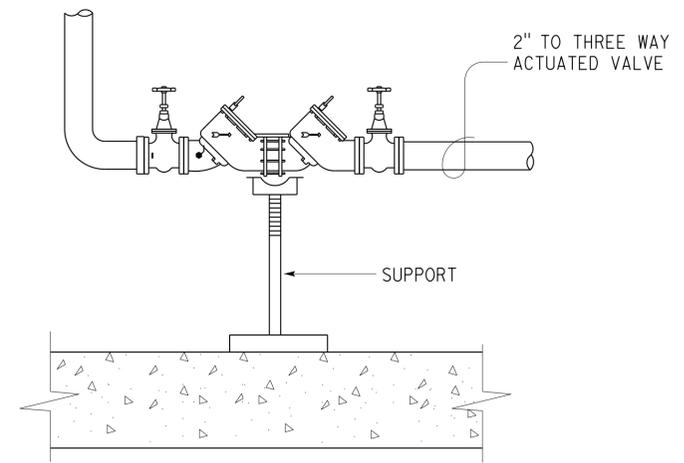
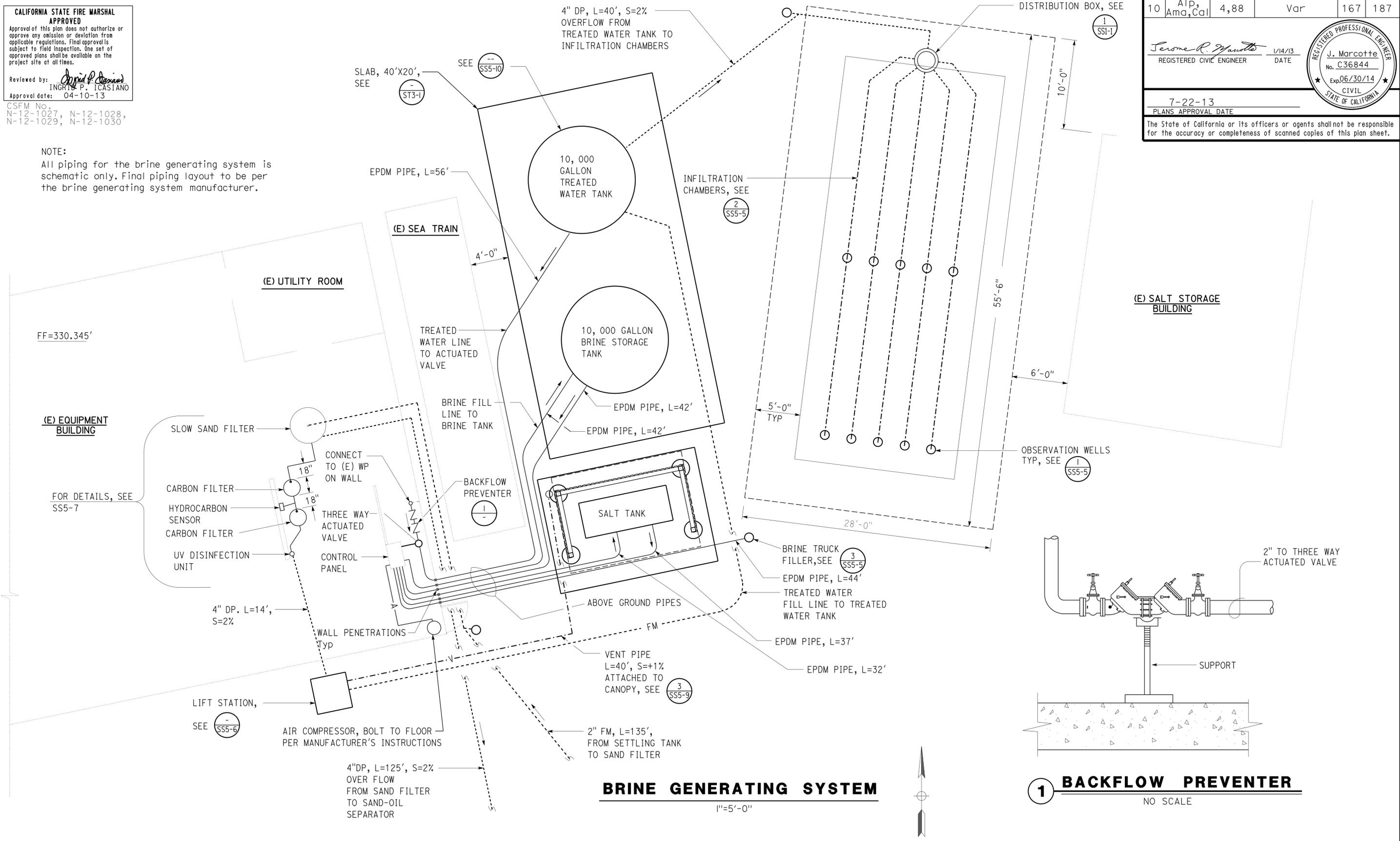
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Cal	4,88	Var	167	187

7-22-13
 PLANS APPROVAL DATE

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



NOTE:
 All piping for the brine generating system is schematic only. Final piping layout to be per the brine generating system manufacturer.



1 BACKFLOW PREVENTER
 NO SCALE

BRINE GENERATING SYSTEM

1"=5'-0"

DESIGN	BY Amar Baidwan	CHECKED Jerry Marcotte
DETAILS	BY Amar Baidwan	CHECKED Andy Quan
QUANTITIES	BY Amar Baidwan	CHECKED Jerry Marcotte

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO.	5725	DISTRICT 10 WASHRACKS PHASE 2	SHEET SS1-3
POST MILE	WOODFORDS M. S.		
REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF	
4-28-12, 5-25-12, 6-28-12, 7-20-12, 8-14-13			

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Cal	4,88	Var	168	187

<i>Serome R. Marcotte</i>		1/14/13
REGISTERED CIVIL ENGINEER		DATE

7-22-13	
PLANS APPROVAL DATE	

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

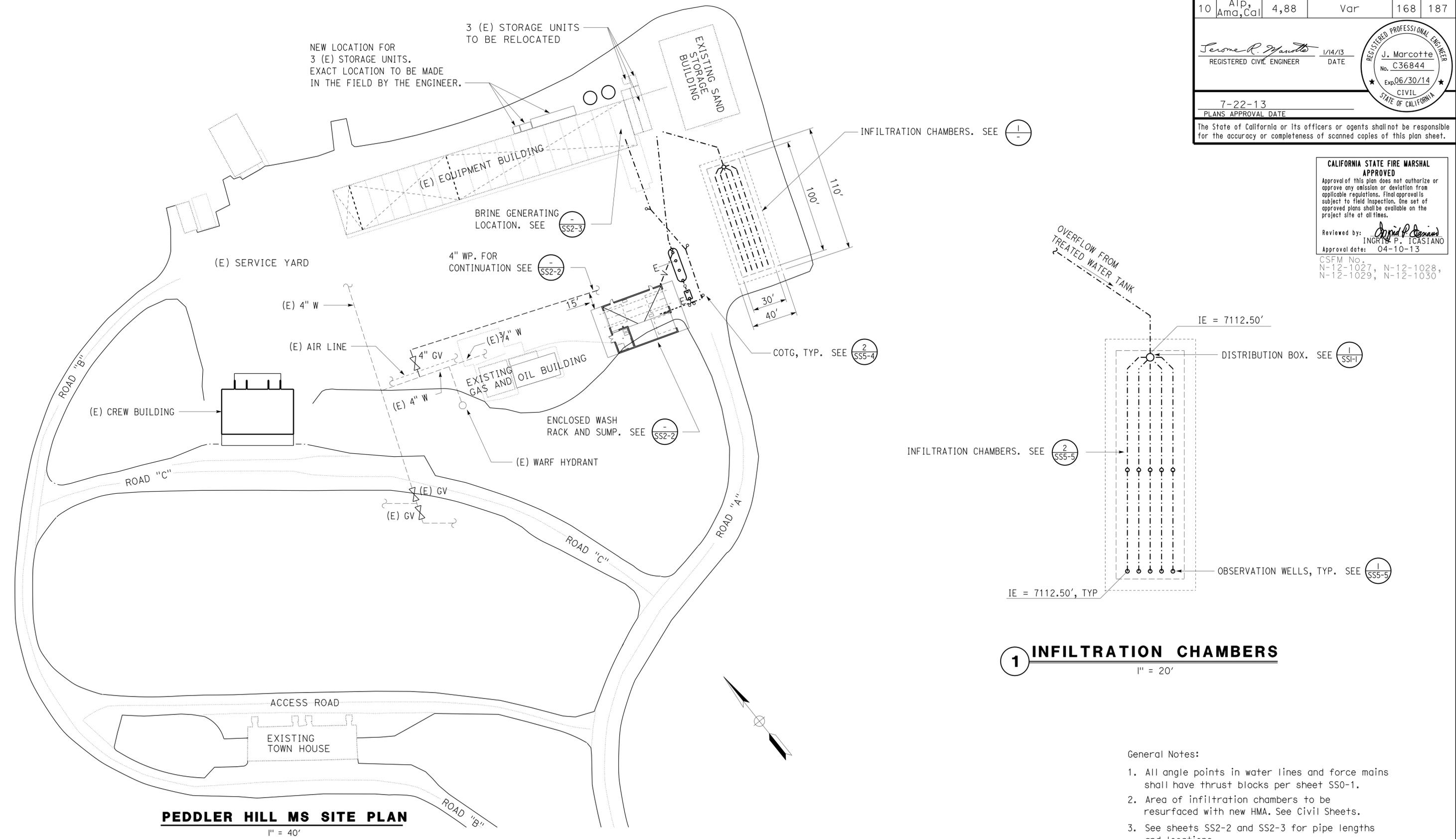


CALIFORNIA STATE FIRE MARSHAL APPROVED

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: *Ingrid P. Icasiano*
INGRID P. ICASIANO
Approval date: 04-10-13

CSFM No.
N-12-1027, N-12-1028,
N-12-1029, N-12-1030



1 INFILTRATION CHAMBERS

1" = 20'

- General Notes:
- All angle points in water lines and force mains shall have thrust blocks per sheet SS0-1.
 - Area of infiltration chambers to be resurfaced with new HMA. See Civil Sheets.
 - See sheets SS2-2 and SS2-3 for pipe lengths and locations.

DESIGN SUPERVISOR <i>Serome R. Marcotte</i> DESIGN ENGINEER	DESIGN BY R E Schmitz	CHECKED Jerry Marcotte	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 5729	DISTRICT 10 WASHRACKS PHASE 2 PEDDLER HILL M.S.	SHEET SS2-1
	DETAILS BY R E Schmitz	CHECKED Jerry Marcotte			POST MILE		
	QUANTITIES BY R E Schmitz	CHECKED Jerry Marcotte					
TAEMWW Imperial Rev. 3/12	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			UNIT PROJECT NUMBER & PHASE 3616 10120001811	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY) 04/23/12 05/25/12 06/28/12 07/20/12 11/08/12 1/14/13

23-SEP-2013 08:43
ss2_1.dgn

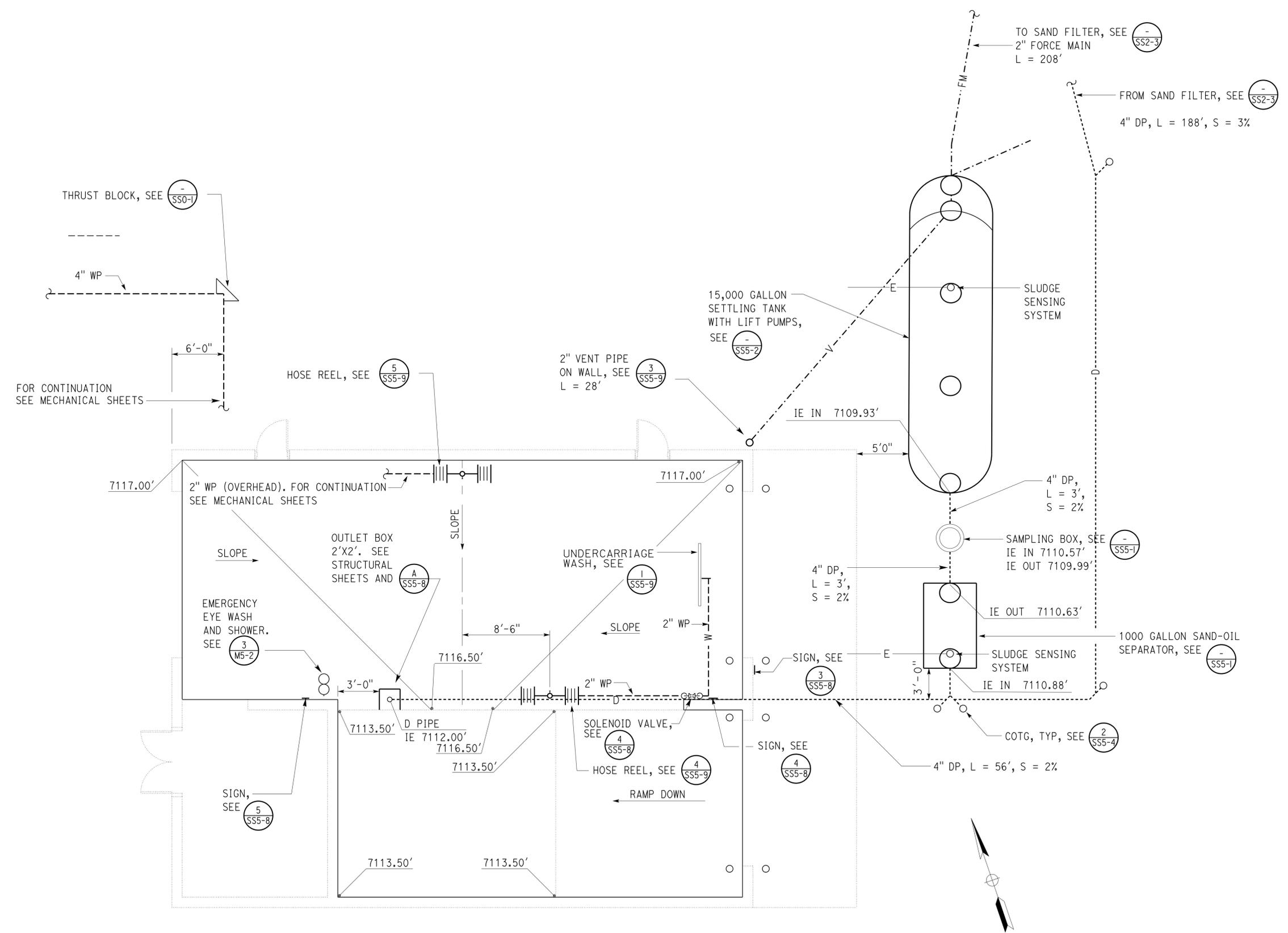
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Cal	4,88	Var	169	187
<i>Jerome R. Marcotte</i> REGISTERED CIVIL ENGINEER			1/14/13 DATE	REGISTERED PROFESSIONAL ENGINEER J. Marcotte No. C36844 Exp. 06/30/14 CIVIL STATE OF CALIFORNIA	
7-22-13					
PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned 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: *Ingrid P. Casiano*
 INGRID P. CASIANO
 Approval date: 04-10-13

CSFM No.
 N-12-1027, N-12-1028,
 N-12-1029, N-12-1030



WASHRACK AND SUMP
 1" = 5'-0"

DESIGN BY <i>R E Schmitz</i> CHECKED <i>Jerry Marcotte</i> DETAILS BY <i>R E Schmitz</i> CHECKED <i>Jerry Marcotte</i> QUANTITIES BY <i>R E Schmitz</i> CHECKED <i>Jerry Marcotte</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	DISTRICT 10 WASHRACKS PHASE 2		SHEET
			5729	PEDDLER HILL M.S.		SS2-2
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT PROJECT NUMBER & PHASE 3616 10120001811	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF
0 1 2 3		EA 000000	04/23/12 05/25/12 06/28/12 07/20/12 11/09/12 1/14/13			OF

23-SEP-2013 08:43

ss2_2.dgn

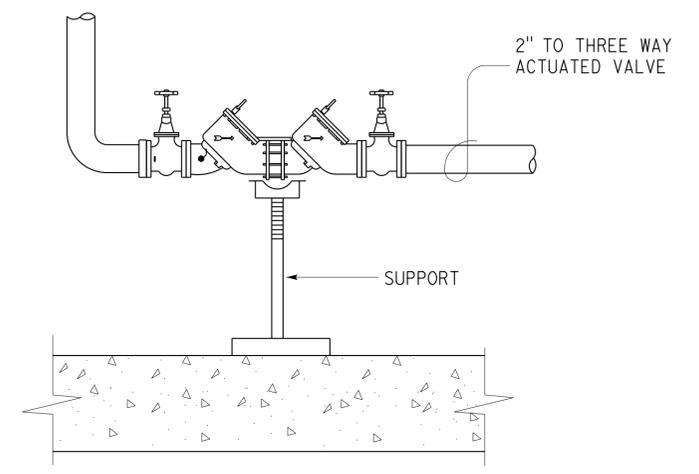
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Cal	4,88	Var	170	187
<i>Jerome R. Marcotte</i> REGISTERED CIVIL ENGINEER			1/14/13 DATE		
7-22-13 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned 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 approvals subject to field inspection. One set of approved plans shall be available on the project site at all times.

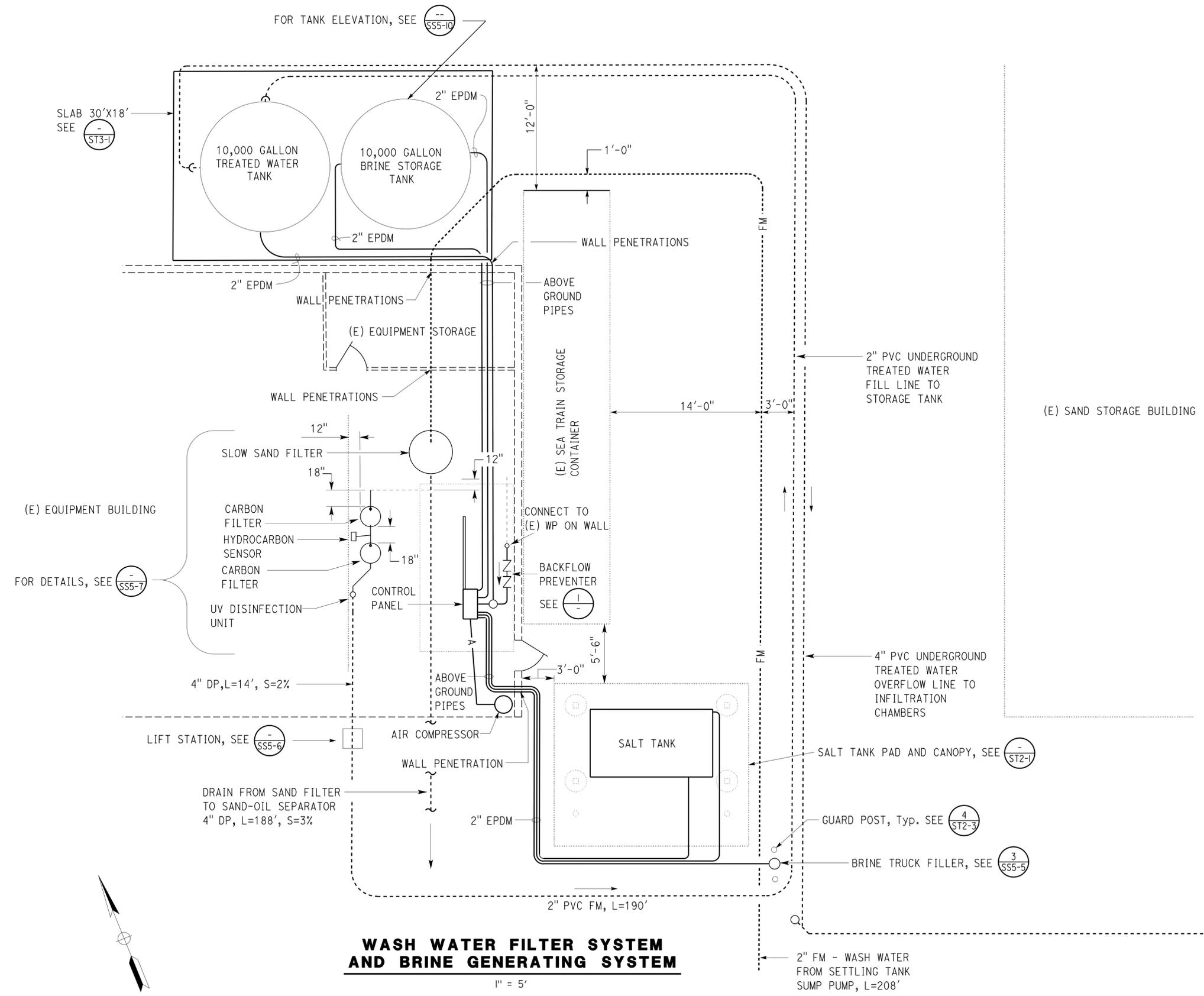
Reviewed by: *Ingrid P. Casiano*
 INGRID P. CASIANO
 Approval date: 04-10-13

CSFM No. N-12-1027, N-12-1028, N-12-1029, N-12-1030



1 BACKFLOW PREVENTER
NO SCALE

NOTE:
All piping for the brine generating system is schematic only. Final piping layout to be per the brine generating system manufacturer.



WASH WATER FILTER SYSTEM AND BRINE GENERATING SYSTEM

1" = 5'

TAEMWW Imperial Rev. 3/12 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	DESIGN BY <i>R E Schmitz</i> CHECKED <i>Jerry Marcotte</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 5729 POST MILE	DISTRICT 10 WASHRACKS PHASE 2 PEDDLER HILL M.S.	SHEET SS2-3 OF
	DETAILS BY <i>R E Schmitz</i> CHECKED <i>Andy Quan</i>		PROJECT NUMBER & PHASE 3616 10120001811	REVISION DATES (PRELIMINARY STAGE ONLY) 04/13/12 05/22/12 06/28/12 7-28-12 11-09-12 11-14-13		

23-SEP-2013 08:43 ss2_3.dgn

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Cal	4,88	Var	171	187

<i>Serome R. Marcotte</i>		1/14/13
REGISTERED CIVIL ENGINEER	DATE	

7-22-13	
PLANS APPROVAL DATE	

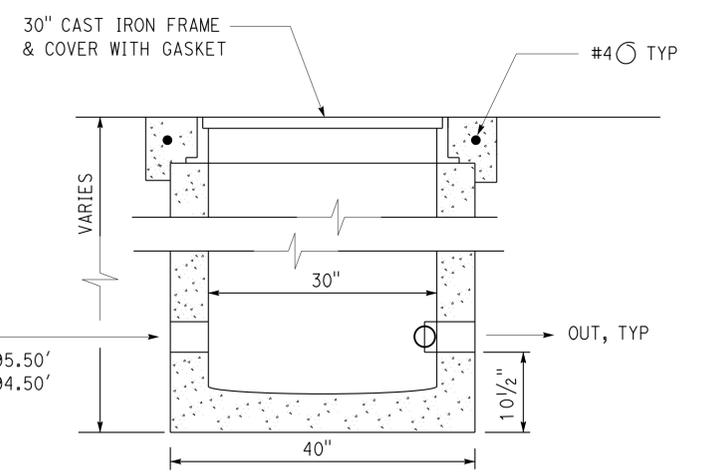
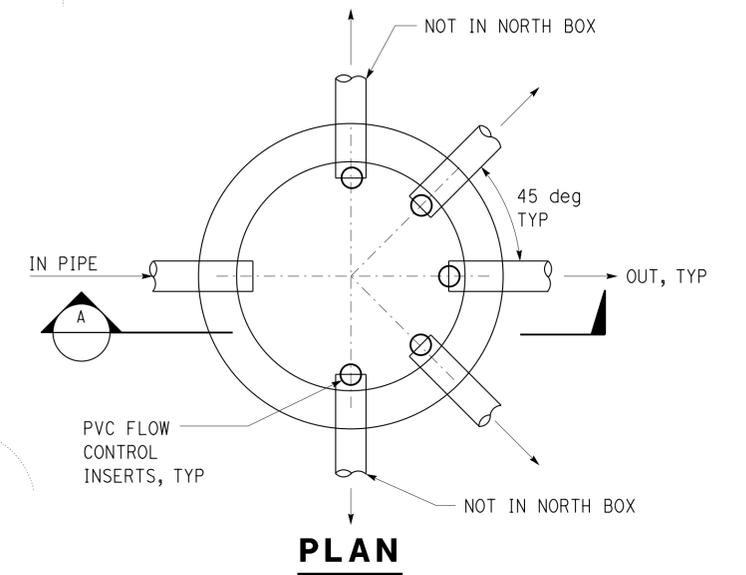
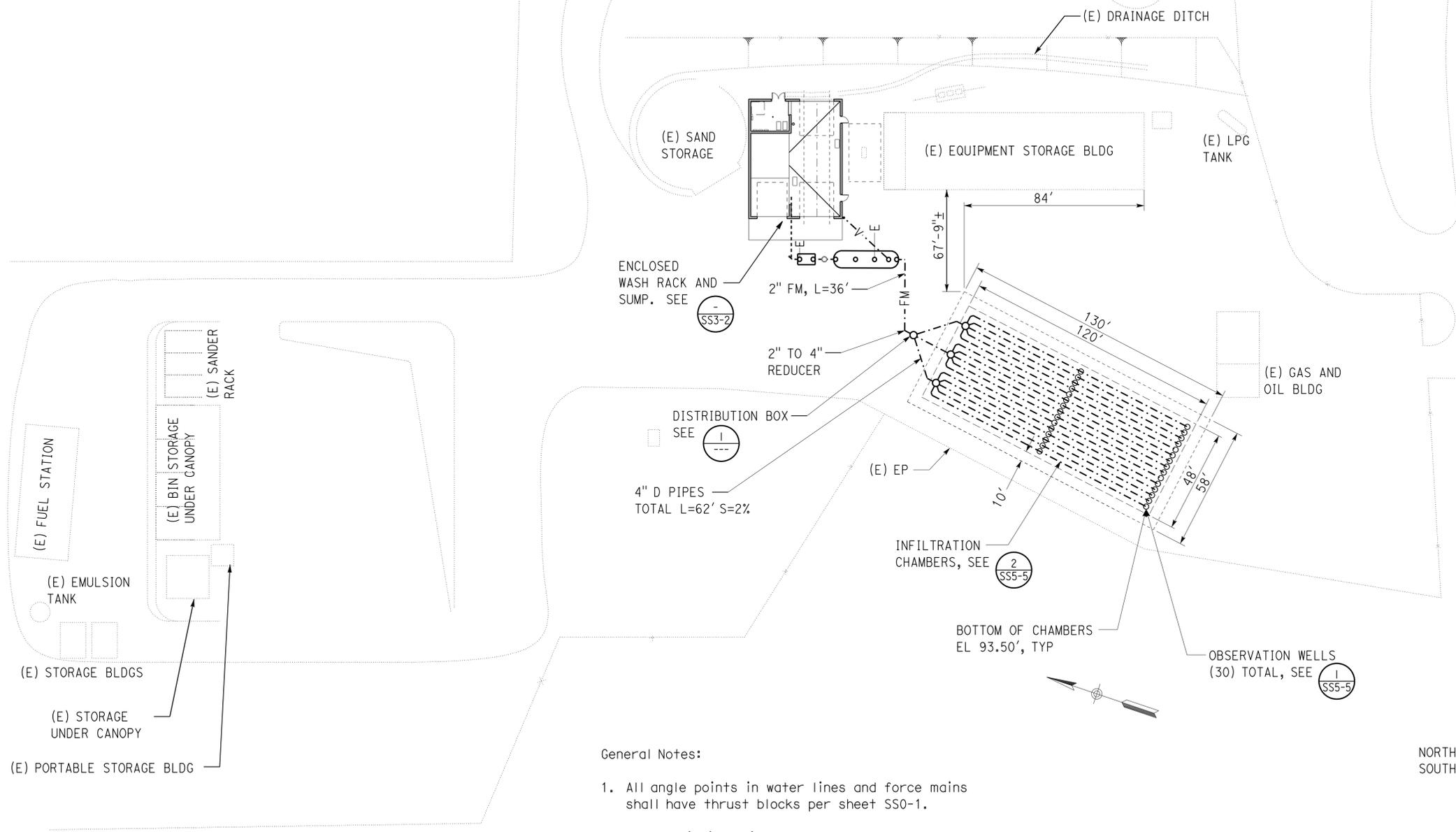
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.

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: *Ingrid P. Casiano*
INGRID P. CASIANO
Approval date: 04-10-13

CSFM No.
N-12-1027, N-12-1028,
N-12-1029, N-12-1030



1 DISTRIBUTION BOX
NO SCALE

- General Notes:
- All angle points in water lines and force mains shall have thrust blocks per sheet SS0-1.
 - Area of infiltration chambers to be resurfaced with new HMA. See Civil Sheets.
 - See Sheets SS3-2 and SS3-3 for pipe lengths and locations.

PINE GROVE M.S. SITE PLAN
1" = 30'-0"

DESIGN SUPERVISOR <i>Julie Schreff</i>	DESIGN BY R E Schmitz	CHECKED Jerry Marcotte
DESIGN ENGINEER <i>Serome R. Marcotte</i>	DETAILS BY R E Schmitz	CHECKED Jerry Marcotte
	QUANTITIES BY R E Schmitz	CHECKED Jerry Marcotte

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO.
5718
POST MILE

DISTRICT 10 WASHRACKS PHASE 2
PINE GROVE M.S.
MODIFIED SITE PLAN

SHEET
SS3-1

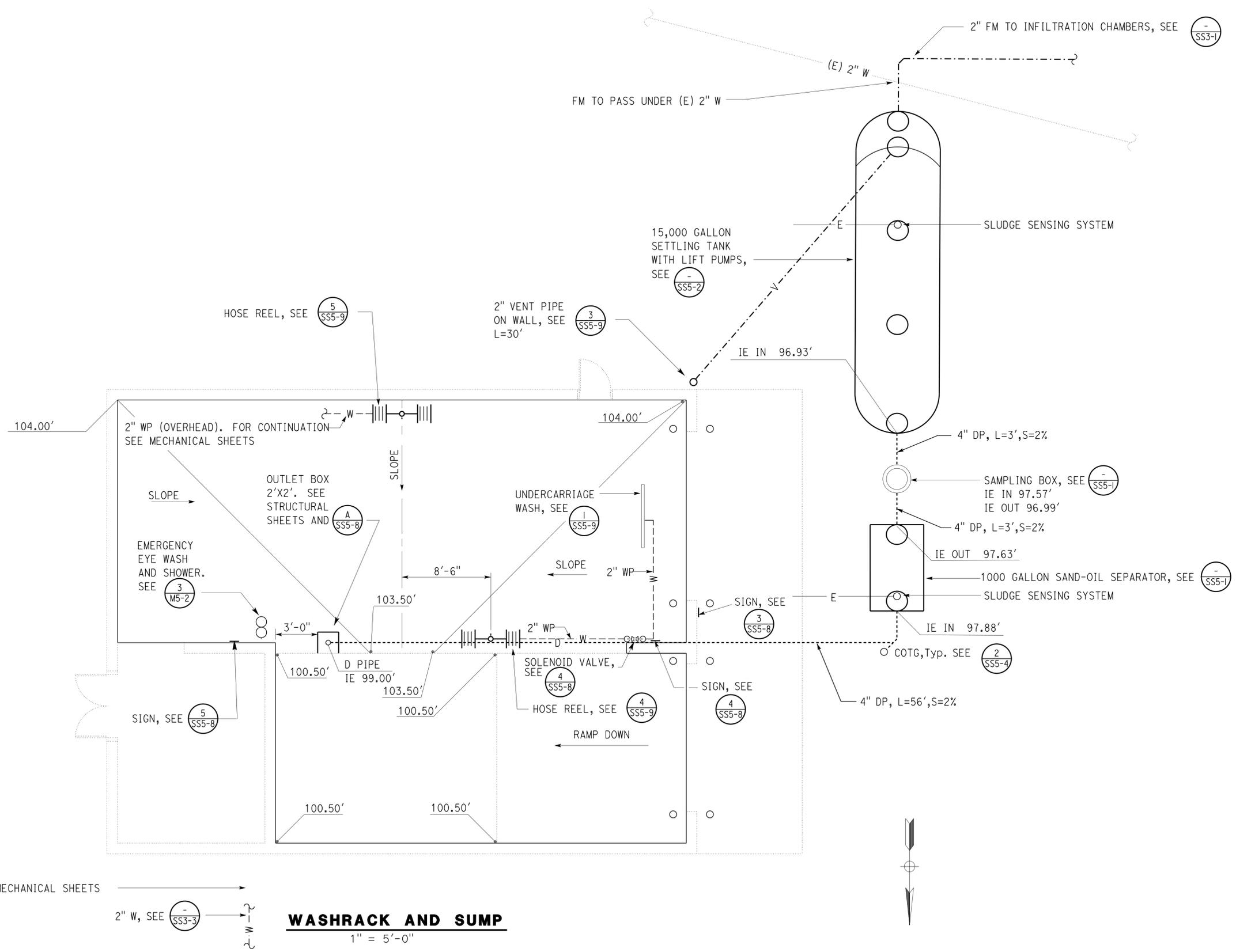
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Cal	4,88	Var	172	187
<i>Serome R. Marcotte</i> REGISTERED CIVIL ENGINEER			1/14/13 DATE	REGISTERED PROFESSIONAL ENGINEER <i>J. Marcotte</i> No. C36844 Exp. 06/30/14 CIVIL STATE OF CALIFORNIA	
7-22-13 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned 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 approvals subject to field inspection. One set of approved plans shall be available on the project site at all times.

Reviewed by: *Ingrid P. Casiano*
 INGRID P. CASIANO
 Approval date: 04-10-13

CSFM No.
 N-12-1027, N-12-1028,
 N-12-1029, N-12-1030



FOR CONTINUATION SEE MECHANICAL SHEETS

2" W, SEE (SS3-3)

WASHRACK AND SUMP

1" = 5'-0"

DESIGN	BY R E Schmitz	CHECKED Jerry Marcotte
DETAILS	BY R E Schmitz	CHECKED Jerry Marcotte
QUANTITIES	BY R E Schmitz	CHECKED Jerry Marcotte

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO.	5718
POST MILE	

DISTRICT 10 WASHRACKS PHASE 2

PINE GROVE M.S.

WASHRACK AND SUMP

SHEET **SS3-2** OF

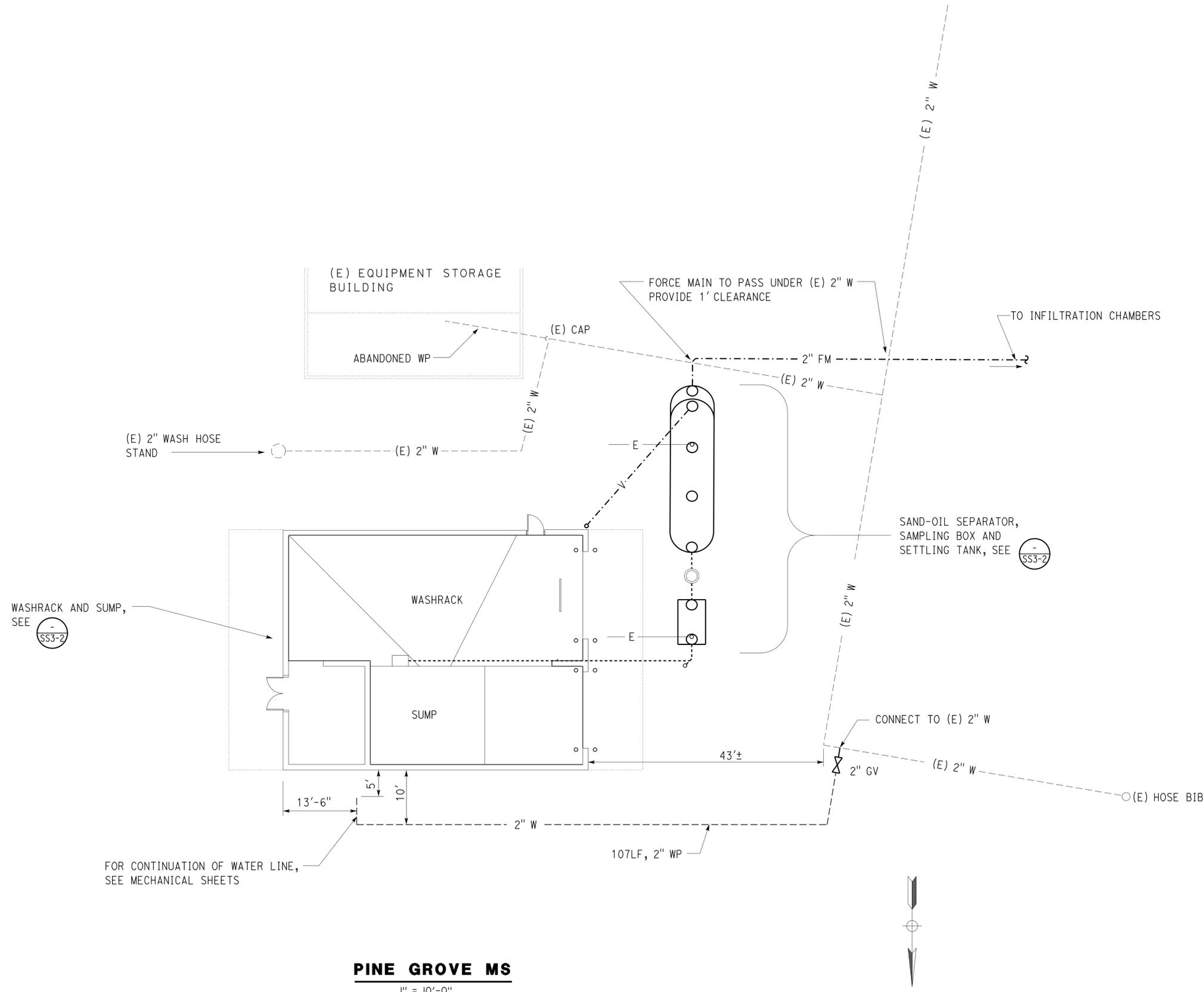
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Cal	4,88	Var	173	187
<i>Jerome R. Marcotte</i> REGISTERED CIVIL ENGINEER			1/14/13 DATE		
7-22-13 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned 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 approvals subject to field inspection. One set of approved plans shall be available on the project site at all times.

Reviewed by: *Ingrid P. Casiano*
 INGRID P. CASIANO
 Approval date: 04-10-13

CSFM No.
 N-12-1027, N-12-1028,
 N-12-1029, N-12-1030



General Note:
 1. Locations of existing water lines are taken from as-built drawings. Field verify prior to construction.

PINE GROVE MS
 1" = 10'-0"

DESIGN	BY	<i>R E Schmitz</i>	CHECKED	<i>Jerry Marcotte</i>
DETAILS	BY	<i>R E Schmitz</i>	CHECKED	<i>Jerry Marcotte</i>
QUANTITIES	BY	<i>R E Schmitz</i>	CHECKED	<i>Jerry Marcotte</i>

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO.	DISTRICT 10 WASHRACKS PHASE 2		SHEET
5718	PINE GROVE M.S.	SS3-3	
POST MILE	WATER LINE PLAN		OF

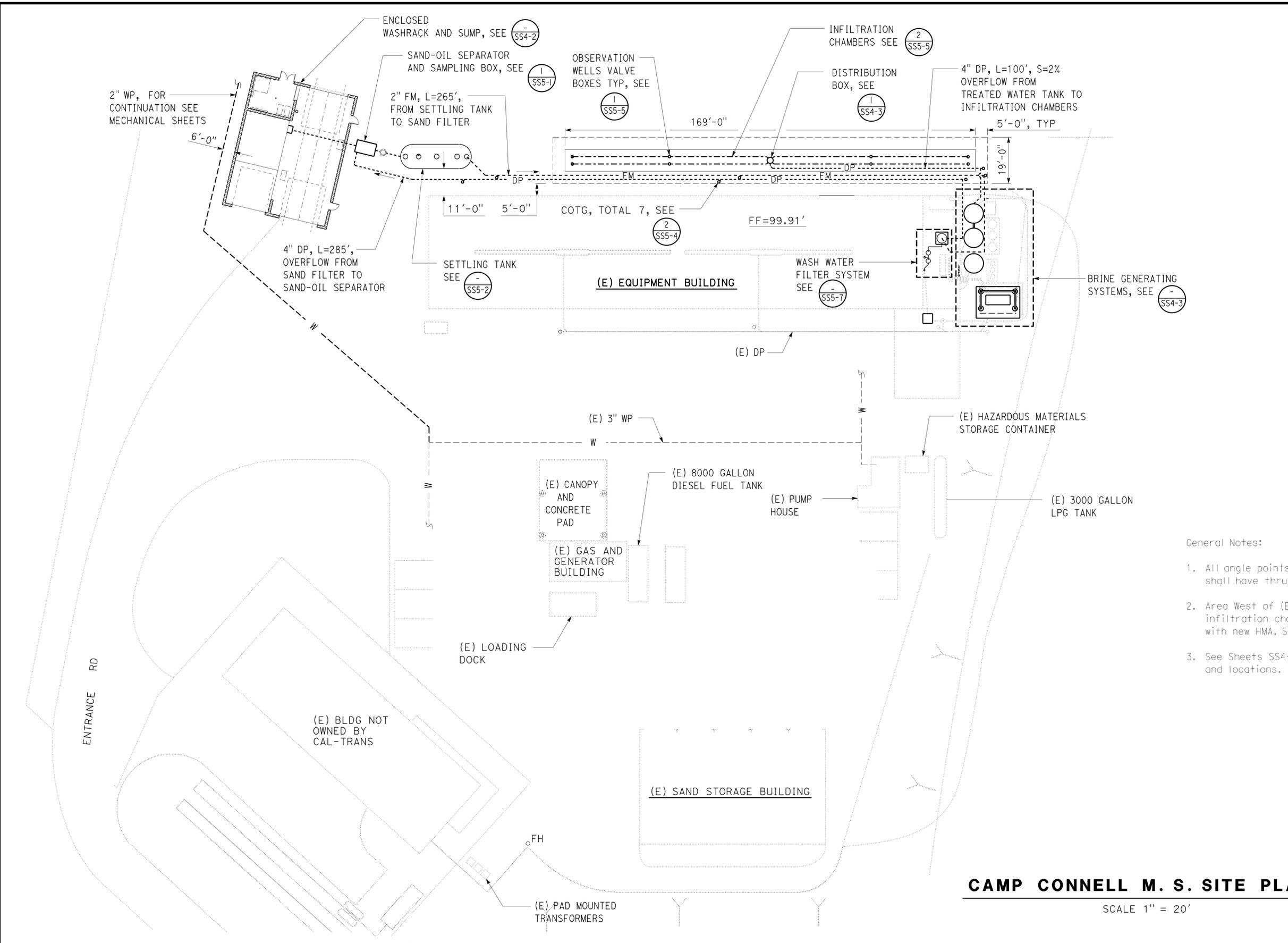
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Cal	4,88	Var	174	187

<i>Serome R. Marcotte</i> REGISTERED CIVIL ENGINEER DATE 1/14/13	REGISTERED PROFESSIONAL ENGINEER No. C36844 Exp. 06/30/14 CIVIL STATE OF CALIFORNIA
7-22-13 PLANS APPROVAL DATE	
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned 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.

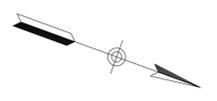
Reviewed by: *Ingrid P. Icasiano*
 INGRID P. ICASIANO
 Approval date: 04-10-13

CSFM No.
 N-12-1027, N-12-1028,
 N-12-1029, N-12-1030



- General Notes:
- All angle points in water lines and force mains shall have thrust blocks per sheet SS0-1.
 - Area West of (E) Equipment Building and infiltration chambers to be resurfaced with new HMA. See Civil Sheets.
 - See Sheets SS4-2 and SS4-3 for pipe lengths and locations.

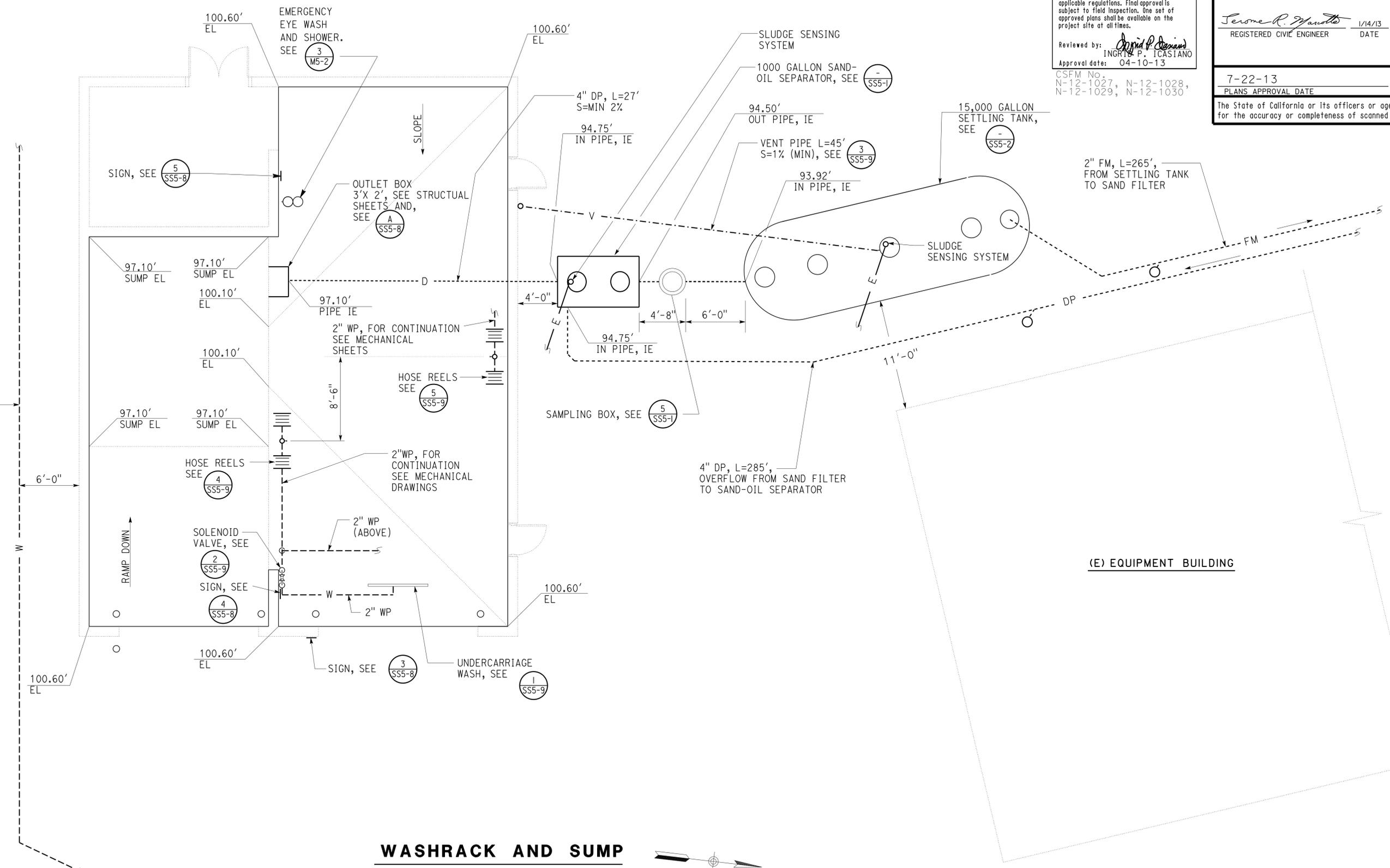
CAMP CONNELL M. S. SITE PLAN
 SCALE 1" = 20'



DESIGN SUPERVISOR <i>Serome R. Marcotte</i> DESIGN ENGINEER	DESIGN BY Amar Baidwan	CHECKED Jerry Marcotte	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 5726	DISTRICT 10 WASHRACKS PHASE 2 CAMP CONNELL M. S.	MODIFIED SITE PLAN	SHEET OF SS4-1
	DETAILS BY Amar Baidwan	CHECKED Jerry Marcotte		ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	POST MILE			
	QUANTITIES BY Amar Baidwan	CHECKED Jerry Marcotte		PROJECT NUMBER & PHASE 3616 10120001811	EA 0X2101	REVISION DATES (PRELIMINARY STAGE ONLY) 4-28-12 5-25-12 6-27-12 7-28-12 11-09-12 11-14-13		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3					DISREGARD PRINTS BEARING EARLIER REVISION DATES		SHEET OF	

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Cal	4,88	Var	175	187

CALIFORNIA STATE FIRE MARSHAL APPROVED Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approvals subject to field inspection. One set of approved plans shall be available on the project site at all times. Reviewed by: <i>[Signature]</i> INGRID P. ICASIANO Approval date: 04-10-13 CSFM No. N-12-1027, N-12-1028, N-12-1029, N-12-1030	
<i>[Signature]</i> REGISTERED CIVIL ENGINEER DATE 1/14/13	REGISTERED PROFESSIONAL ENGINEER No. C36844 Exp. 06/30/14 CIVIL STATE OF CALIFORNIA
7-22-13	
PLANS APPROVAL DATE	
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.	



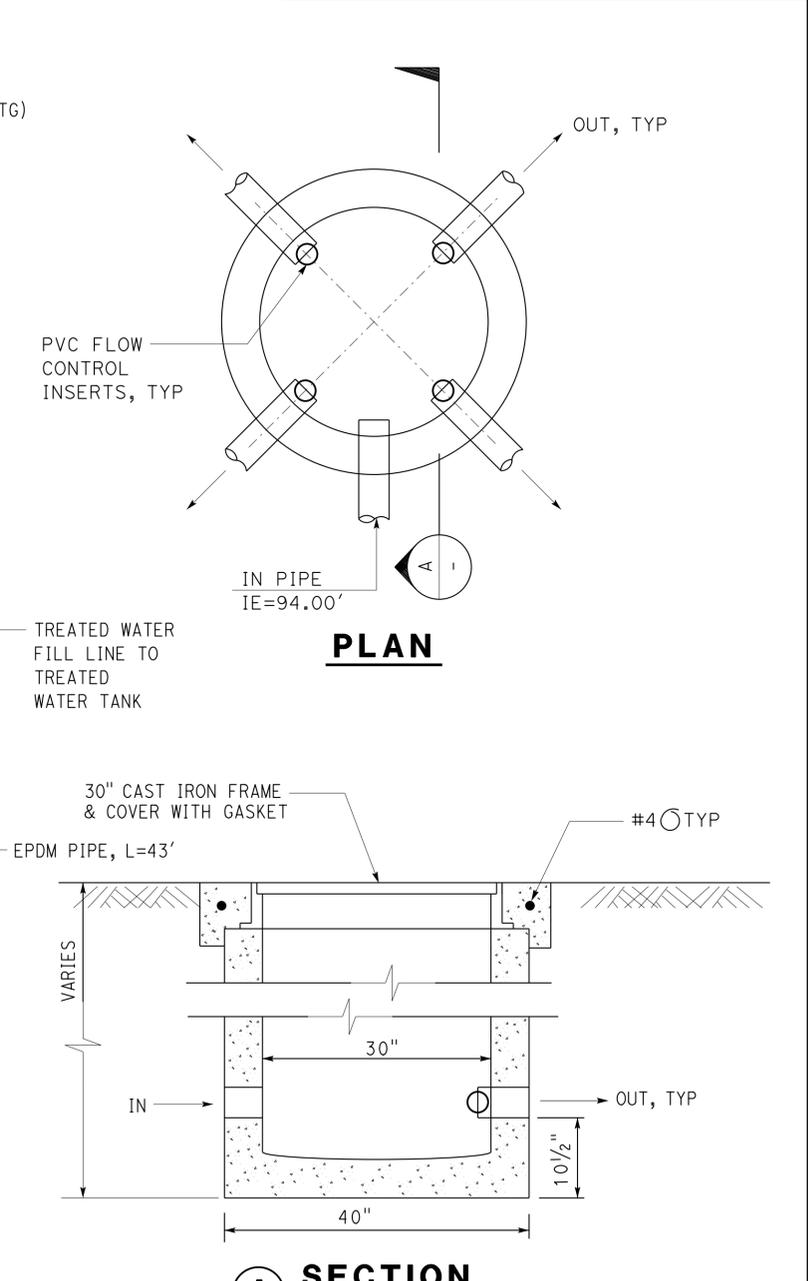
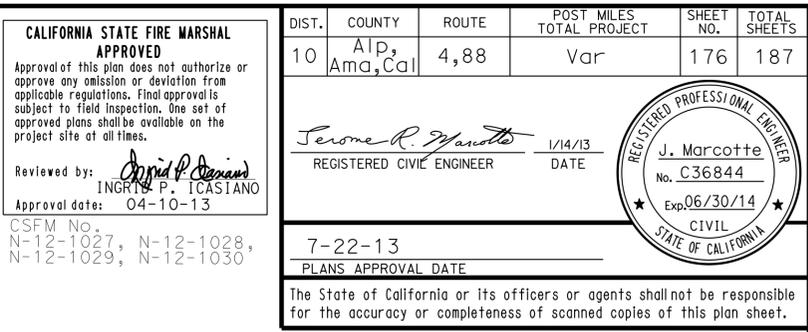
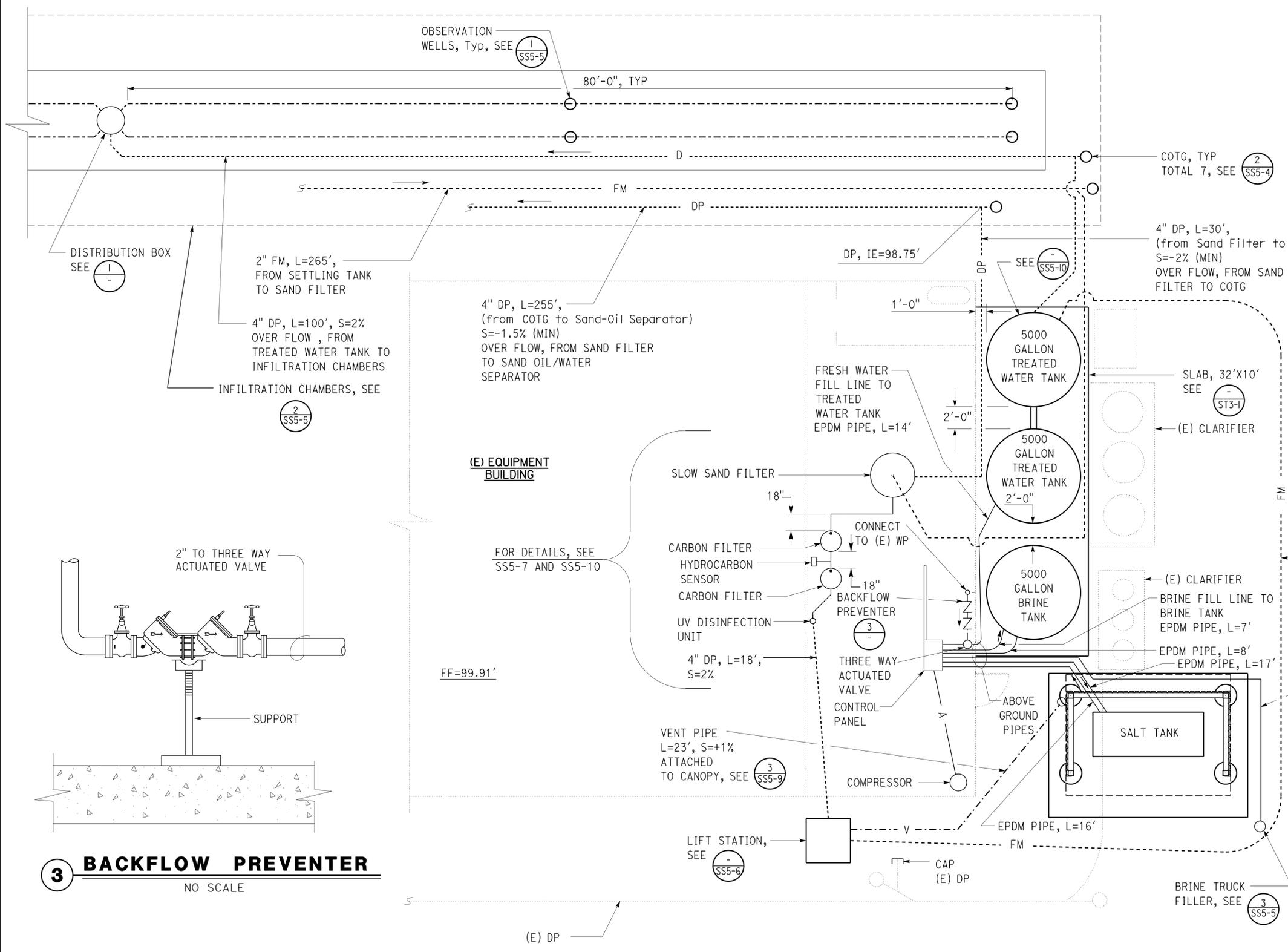
WASHRACK AND SUMP
SCALE 1"=5'-0"

DESIGN BY <i>Amar Baidwan</i> CHECKED <i>Jerry Marcotte</i> DETAILS BY <i>Amar Baidwan</i> CHECKED <i>Jerry Marcotte</i> QUANTITIES BY <i>Amar Baidwan</i> CHECKED <i>Jerry Marcotte</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	DISTRICT 10 WASHRACKS PHASE 2		SHEET
			5726	CAMP CONNELL M. S.	SS4-2	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		UNIT PROJECT NUMBER & PHASE 3616 10120001811	DISREGARD PRINTS BEARING EARLIER REVISION DATES →		REVISION DATES (PRELIMINARY STAGE ONLY) 4-20-12 5-25-12 6-28-12 7-20-12 11-09-12 1-14-13	SHEET OF
TAEMWW Imperial Rev. 3/12		EA 0X2101			ss4_2.dgn	

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Cal	4,88	Var	176	187

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>[Signature]</i> INGRIS P. ICASIANO
Approval date:	04-10-13
CSFM No.	N-12-1027, N-12-1028, N-12-1029, N-12-1030

<i>[Signature]</i> REGISTERED CIVIL ENGINEER DATE 1/14/13		REGISTERED PROFESSIONAL ENGINEER No. C36844 Exp. 06/30/14 CIVIL STATE OF CALIFORNIA
7-22-13		
PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.		



3 BACKFLOW PREVENTER
NO SCALE

1 DISTRIBUTION BOX
NO SCALE

BRINE GENERATING SYSTEM
SCALE 1"=5'-0"

NOTE:
All piping for the brine generating system is schematic only. Final piping layout to be per the brine generating system manufacturer.

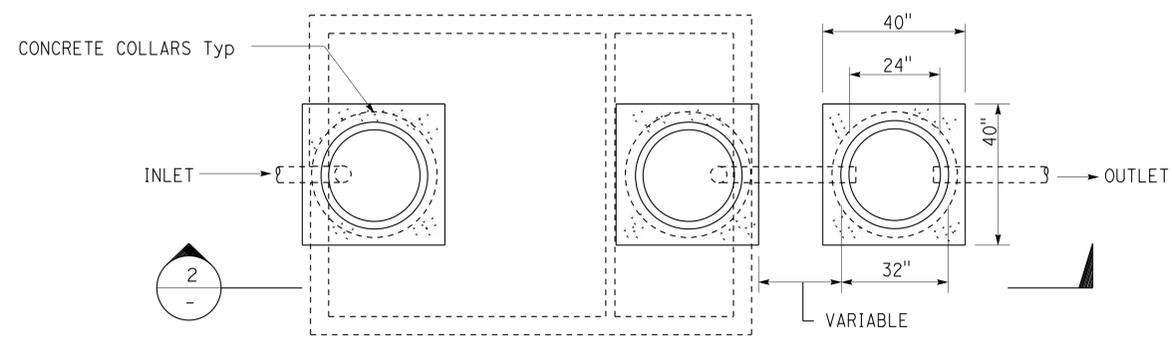
DESIGN BY Amar Baidwan CHECKED Jerry Marcotte DETAILS BY Amar Baidwan CHECKED Jerry Marcotte QUANTITIES BY Amar Baidwan CHECKED Jerry Marcotte	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 5726 POST MILE	DISTRICT 10 WASHRACKS PHASE 2 CAMP CONNELL M. S.	SHEET SS4-3 OF
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3616 10120001811	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 4-28-12 5-25-12 6-28-12 7-28-12 11-09-12 11-14-13	SHEET OF
	TAEMWW Imperial Rev. 3/12	EA 0X2101	98:55 ss4_3.dgn	23-SEP-2013	SHEET OF

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Cal	4,88	Var	177	187

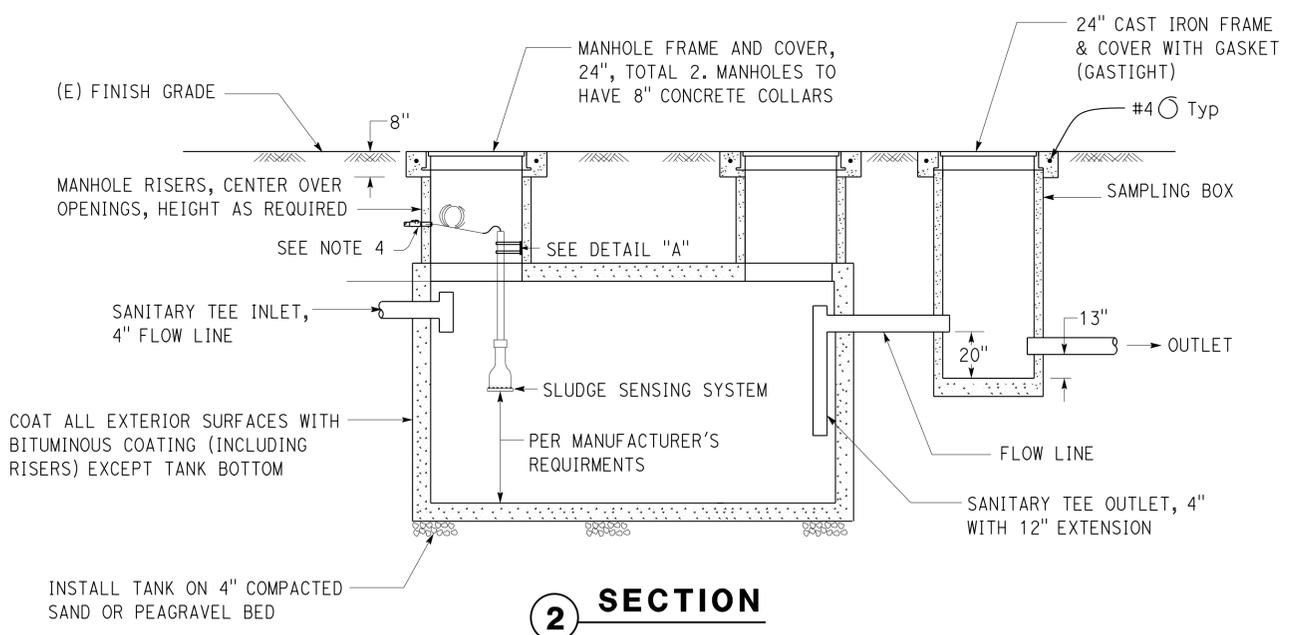
<i>Jerome R. Marcotte</i> REGISTERED CIVIL ENGINEER	1/14/13 DATE	
7-22-13 PLANS APPROVAL DATE		

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

- Notes:
1. Tank dimensions to be per manufacturer.
 2. Install one oil absorbent pillow in the first chamber of sand-oil separator.
 3. Anchor straps, connectors, and deadmen to be approved by tank manufacturer for use with tank.
 4. For electrical, see EE-sheets. Follow tank manufacturer's instructions for riser wall openings.
 5. Contractor to verify location of underground conduits before commencing excavation. Relocate conduits as necessary for proper installation of tanks.

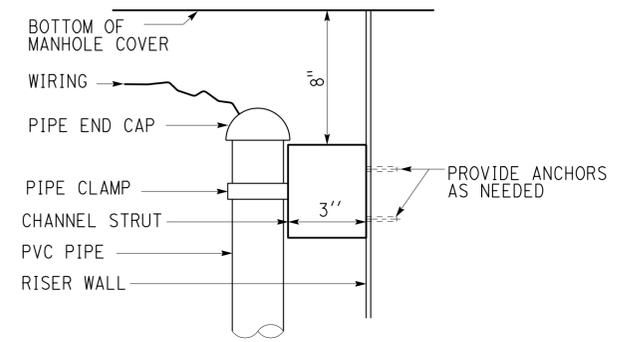


PLAN



2 SECTION

1000 GALLON SAND-OIL/WATER SEPARATOR
NO SCALE



A DETAIL
NO SCALE

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: *Ingrid P. Castano*
INGRID P. CASTANO
Approval date: 04-10-13

CSFM No.
N-12-1027, N-12-1028,
N-12-1029, N-12-1030

DESIGN BY <i>Amar Baidwan</i> CHECKED <i>Jerry Marcotte</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	DISTRICT 10 WASHRACKS PHASE 2	SHEET SS5-1
			VARIOUS		
DETAILS BY <i>Amar Baidwan</i> CHECKED <i>Jerry Marcotte</i>	UNIT PROJECT NUMBER & PHASE 3616 10120001811	EA 0X2101	POST MILE	SAND-OIL/WATER SEPARATOR	SHEET OF
QUANTITIES BY <i>Amar Baidwan</i> CHECKED <i>Jerry Marcotte</i>			DISREGARD PRINTS BEARING EARLIER REVISION DATES		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3			4-12-12 5-25-12 6-28-12 7-20-12 11-09-12 11-14-13		

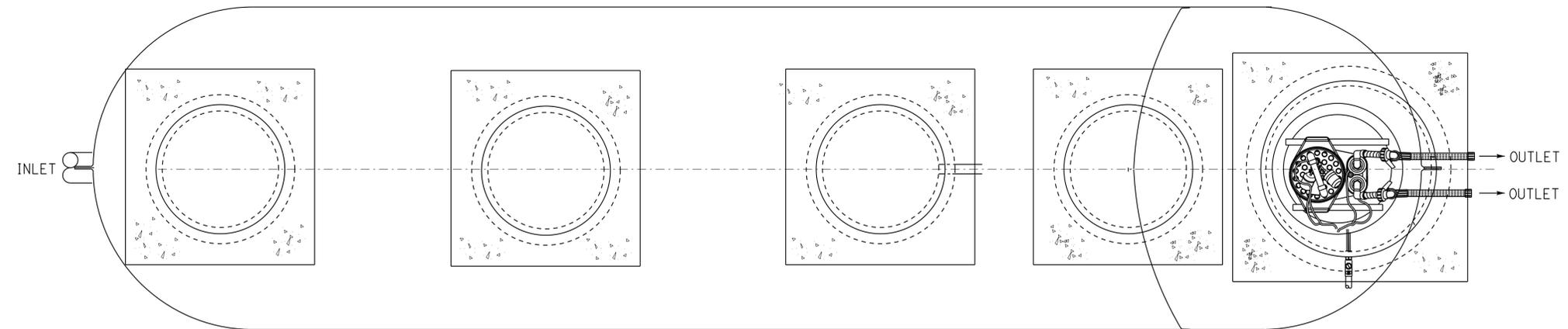
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Cal	4,88	Var	178	187

Serone R. Marcotte
 REGISTERED CIVIL ENGINEER
 DATE 1/14/13

REGISTERED PROFESSIONAL ENGINEER
 J. Marcotte
 No. C36844
 Exp. 06/30/14
 CIVIL
 STATE OF CALIFORNIA

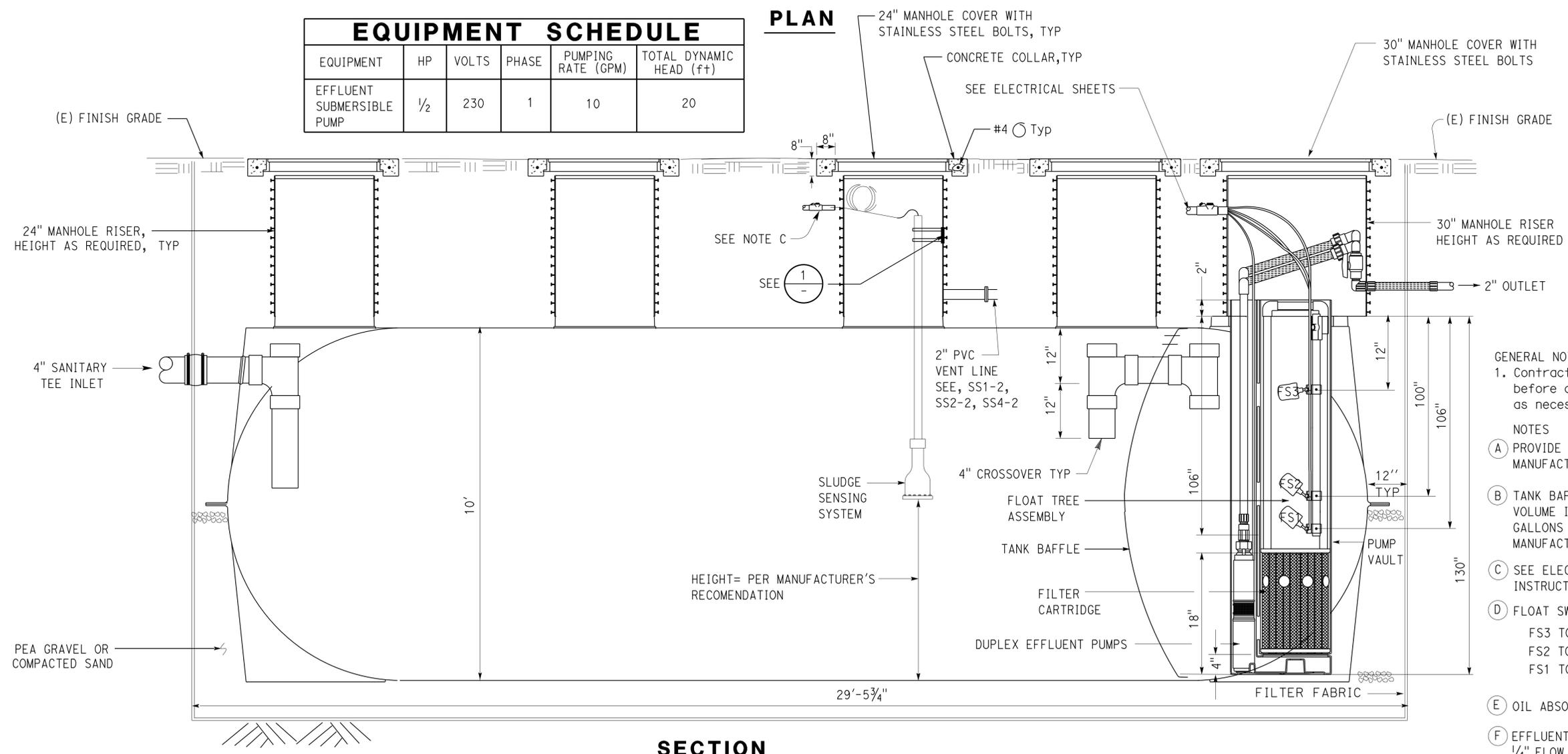
7-22-13
 PLANS APPROVAL DATE

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



EQUIPMENT SCHEDULE					
EQUIPMENT	HP	VOLTS	PHASE	PUMPING RATE (GPM)	TOTAL DYNAMIC HEAD (ft)
EFFLUENT SUBMERSIBLE PUMP	1/2	230	1	10	20

PLAN

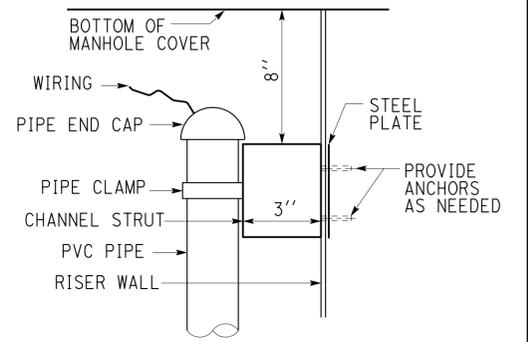


CALIFORNIA STATE FIRE MARSHAL APPROVED

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: *Ingri P. Casiano*
 INGRID P. CASIANO
 Approval date: 04-10-13

CSFM No.
 N-12-1027, N-12-1028
 N-12-1029, N-12-1030



- GENERAL NOTES:**
- Contractor to verify location of underground conduits before commencing excavation. Relocate conduits as necessary for proper installation of tanks.
- NOTES**
- PROVIDE DEADMAN AND TIEDOWNS FOR THE TANK AS PER MANUFACTURER'S RECOMMENDATIONS.
 - TANK BAFFLES SHALL BE INSTALLED AT LOCATIONS TO DIVIDE TANK VOLUME INTO 10,000 GALLONS FOR THE FIRST COMPARTMENT, 5,000 GALLONS FOR THE SECOND COMPARTMENT. LENGTHS MAY VARY BY MANUFACTURER.
 - SEE ELECTRICAL SHEETS, FOLLOW TANK MANUFACTURER'S INSTRUCTIONS FOR RISER WALL OPENINGS
 - FLOAT SWITCH ELEVATIONS:
 FS3 TO BE 94" ABOVE FLOAT FS2
 FS2 TO BE 6" ABOVE FLOAT FS1
 FS1 TO BE 1.5" ABOVE THE BOTTOM OF FLOAT TREE
 - OIL ABSORBENT PILLOWS IN SECOND RISER FROM PUMP VAULT
 - EFFLUENT SUBMERSIBLE PUMP INCLUDES 1/4" FLOW CONTROLLER

1 15,000 GALLON SETTLING TANK

NO SCALE

DESIGN	BY	R. E. Schmitz	CHECKED	Jerry Marcotte	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. VARIOUS	DISTRICT 10 WASHRACKS PHASE 2	SHEET SS5-2	
	DETAILS	BY	J.R. Stangl	CHECKED						Andy Quan
	QUANTITIES	BY	R. E. Schmitz	CHECKED						Jerry Marcotte

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3

UNIT PROJECT NUMBER & PHASE: 3616 10120001811

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 4-12-12, 5-25-12, 6-28-12, 7-28-12, 11-09-12, 11-14-13

SHEET OF: 11 OF 11

TAEWW Imperial Rev. 3/12
 EA 0X2101
 23-SEP-2013 08:55
 ss5_2.dgn

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Cal	4,88	Var	179	187
REGISTERED CIVIL ENGINEER _____ DATE _____ No. _____ Exp. _____ CIVIL STATE OF CALIFORNIA					
7-22-13 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					

NOT USED

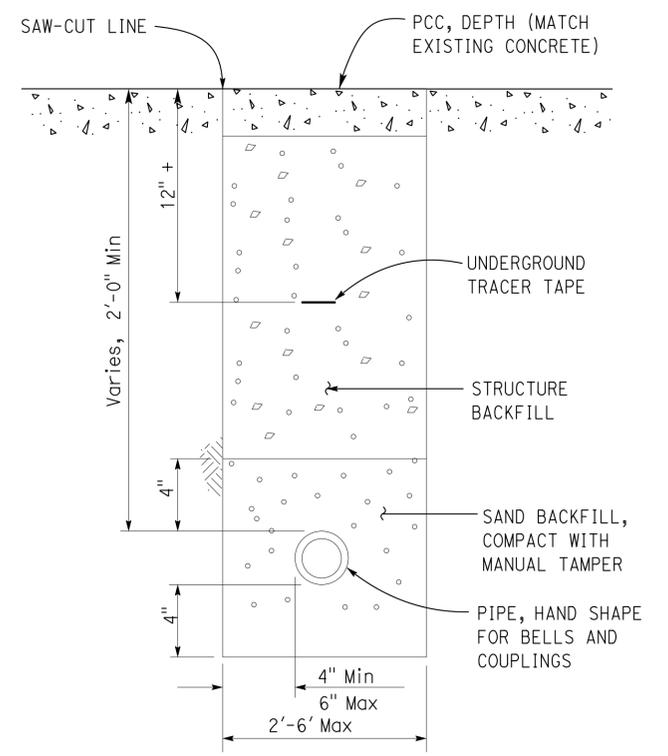
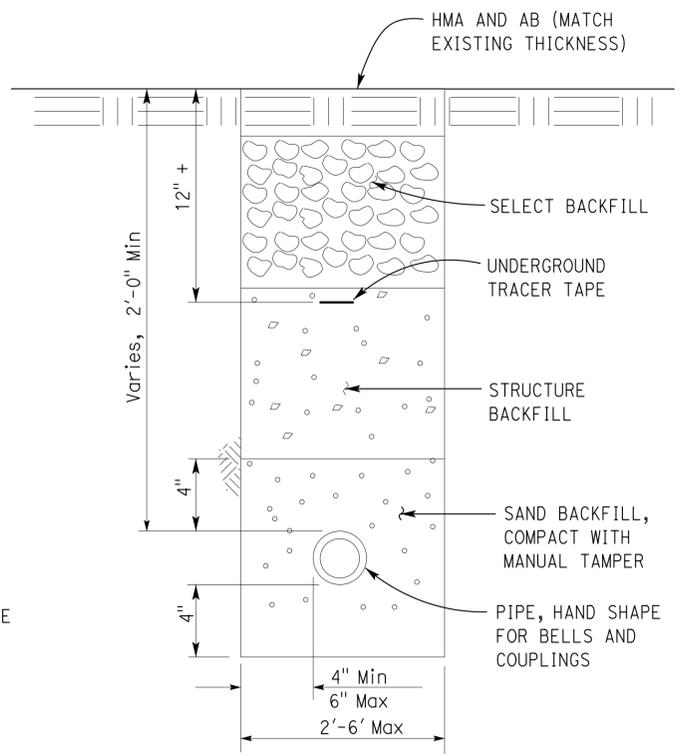
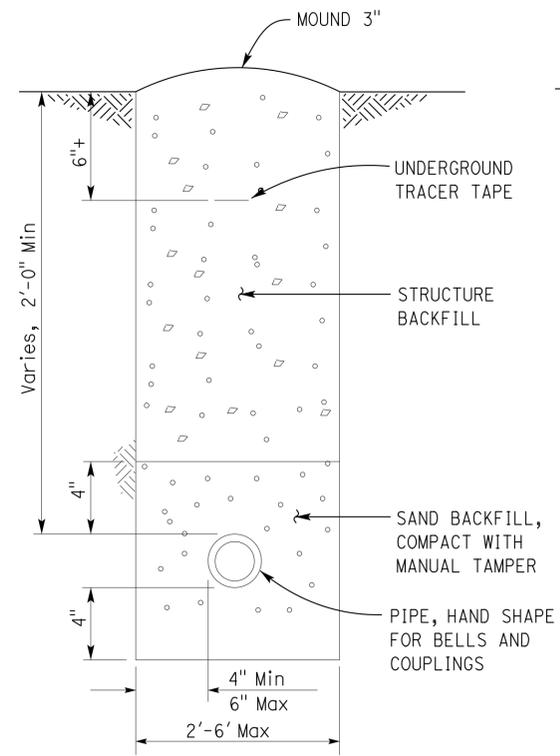
DESIGN BY _____ CHECKED _____ DETAILS BY _____ CHECKED _____ QUANTITIES BY _____ CHECKED _____	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. VARIOUS POST MILE	DISTRICT 10 WASHRACKS PHASE 2 NOT USED	SHEET SS5-3		
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3	UNIT PROJECT NUMBER & PHASE	3616 10120001811	DISREGARD PRINTS BEARING EARLIER REVISION DATES →	REVISION DATES (PRELIMINARY STAGE ONLY) 4-12-12 5-25-12 6-28-12 7-28-12 11-09-12 11-14-13	SHEET OF
	TAEMWW Imperial Rev. 3/12		EA 0X2101		ss5_3.dgn		23-SEP-2013 08:56	

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Cal	4,88	Var	180	187
<i>Serome R. Marcotte</i> REGISTERED CIVIL ENGINEER			1/14/13 DATE	REGISTERED PROFESSIONAL ENGINEER <i>J. Marcotte</i> No. C36844 Exp. 06/30/14 CIVIL STATE OF CALIFORNIA	
7-22-13 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					

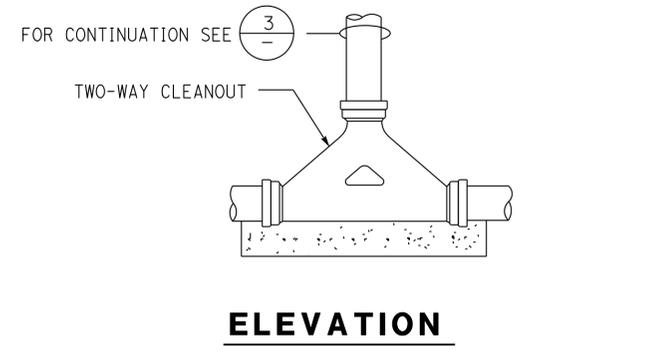
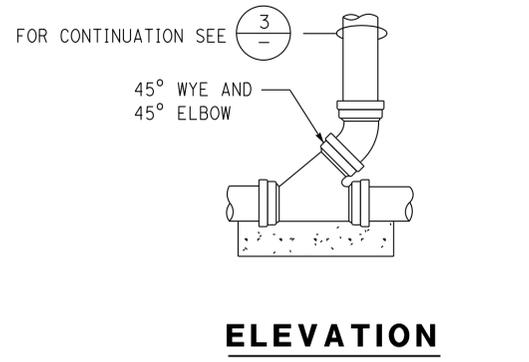
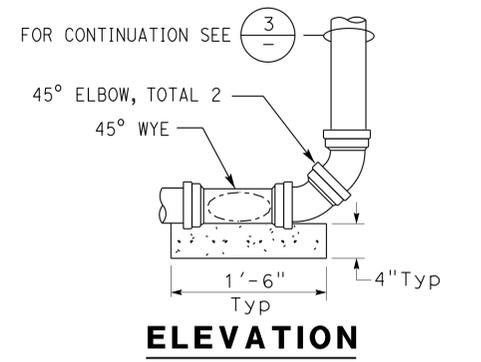
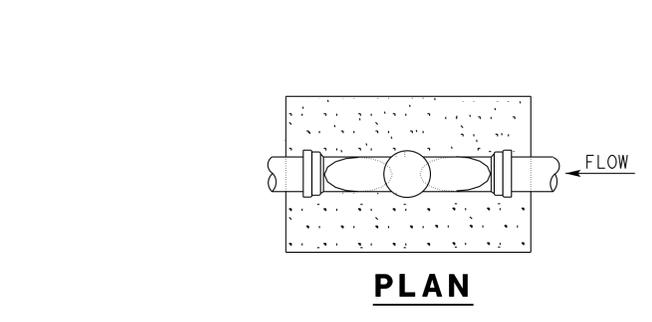
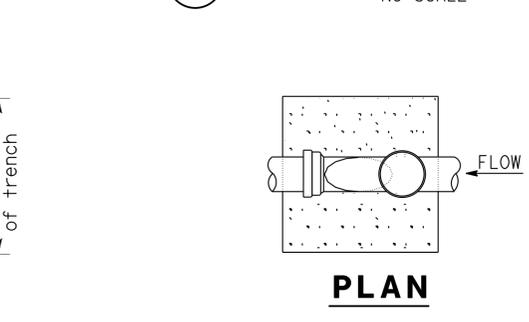
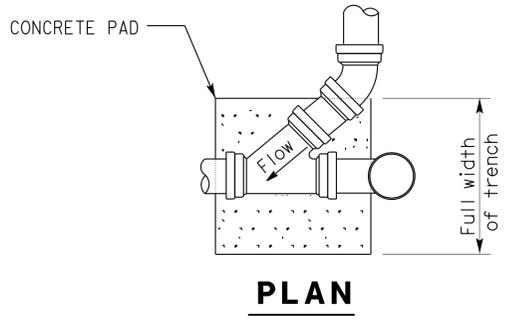
CALIFORNIA STATE FIRE MARSHAL APPROVED

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.

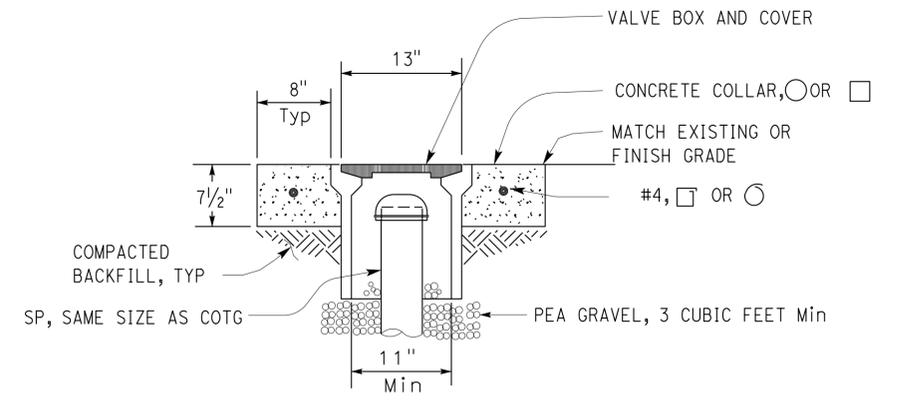
Reviewed by: *Gregory P. Casiano*
 INGRID P. CASIANO
 Approval date: 04-10-13



1 UNDERGROUND PIPE
NO SCALE



2 CLEANOUT TO GRADE - GRAVITY
NO SCALE



3 COTG ACCESS BOX
NO SCALE

NOTE:
CONCRETE PAD SHOWN TYPICAL FOR ALL CLEANOUTS

DESIGN BY Amar Baidwan	CHECKED Jerry Marcotte	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. VARIOUS	DISTRICT 10 WASHRACKS PHASE 2 DETAILS-I	SHEET
DETAILS BY Amar Baidwan	CHECKED Andy Quan		ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	POST MILE		SS5-4
QUANTITIES BY Amar Baidwan	CHECKED Jerry Marcotte		PROJECT NUMBER & PHASE 10120001811	UNIT 3616		REVISION DATES (PRELIMINARY STAGE ONLY)
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		EA 0X2101	DISREGARD PRINTS BEARING EARLIER REVISION DATES	4-12-12 5-25-12 6-27-12 7-20-12 11-09-12 11-14-13	TAEMWW Imperial Rev. 3/12	23-SEP-2013 08:56

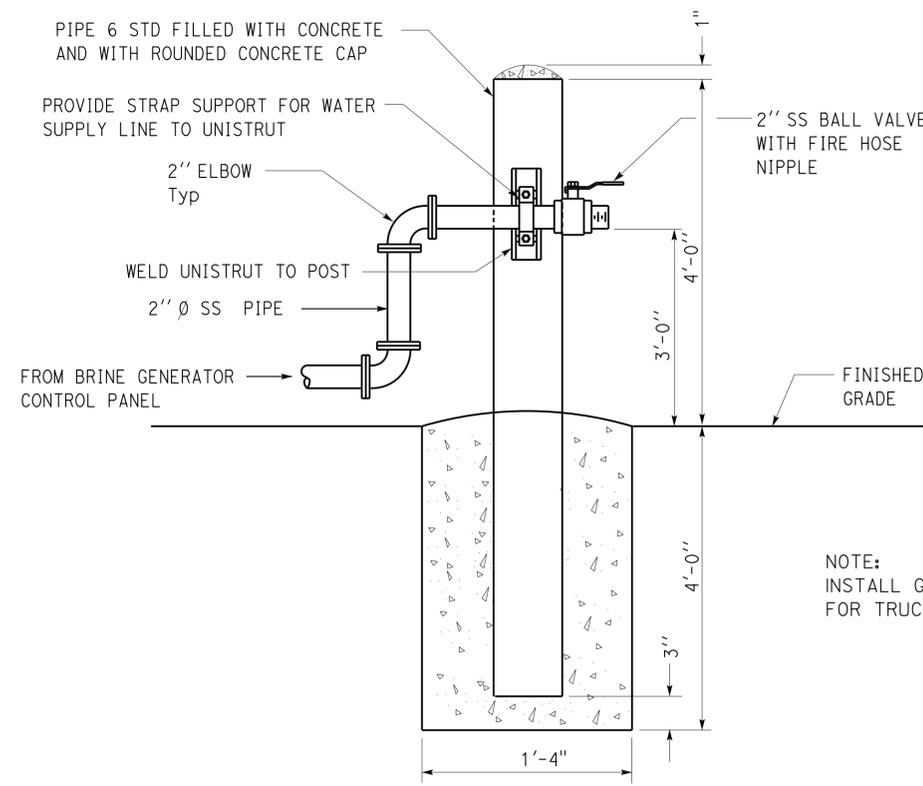
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Cal	4,88	Var	181	187

<i>Jerome R. Marcotte</i> REGISTERED CIVIL ENGINEER	1/14/13 DATE
--	-----------------

<i>J. Marcotte</i> No. C36844 Exp. 06/30/14 CIVIL STATE OF CALIFORNIA

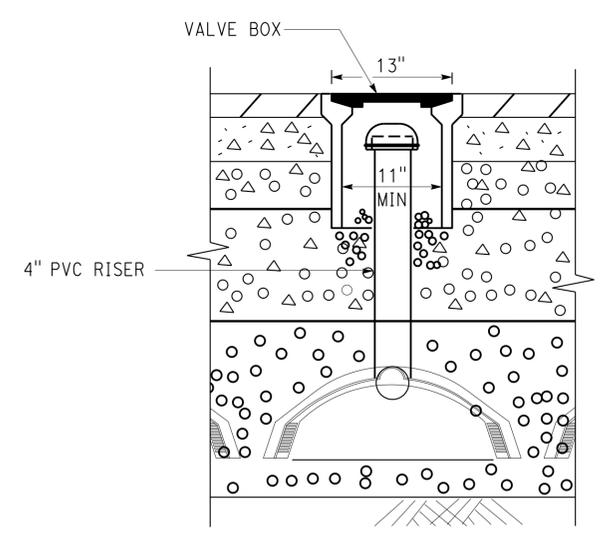
7-22-13 PLANS APPROVAL DATE

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



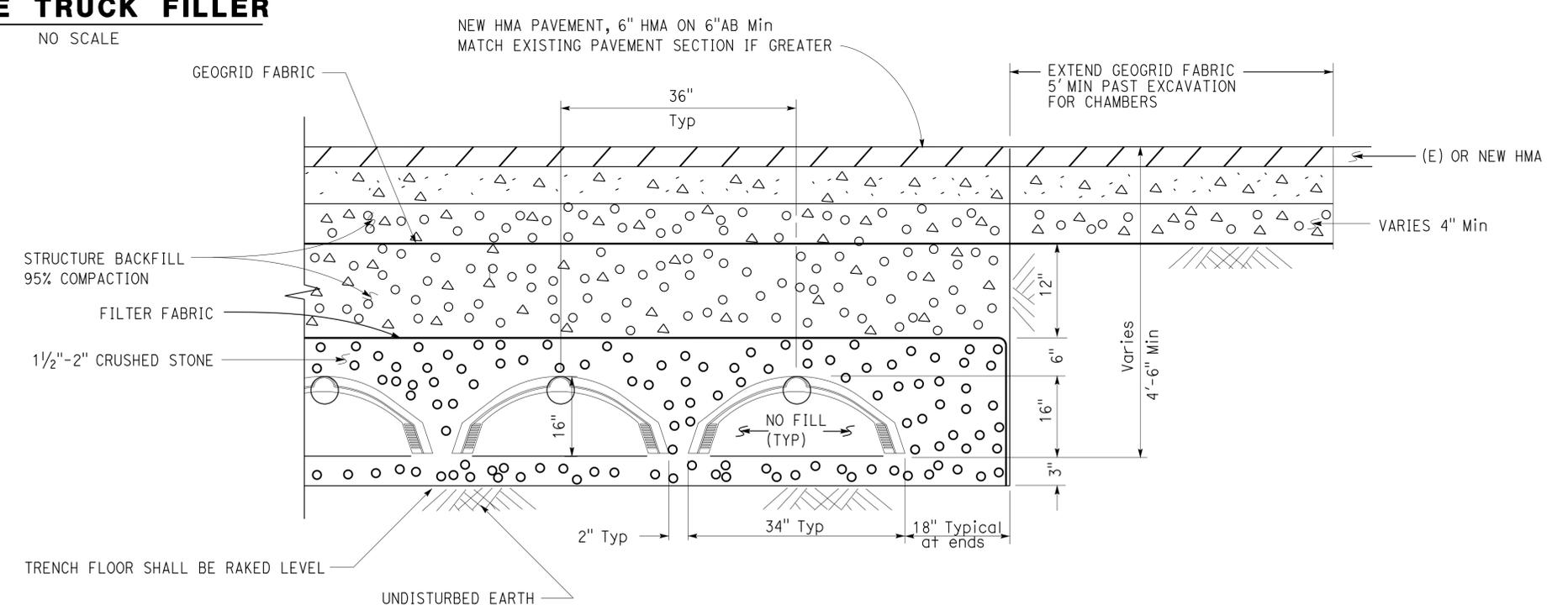
NOTE:
INSTALL GUARD POST (2), SEE $\text{\textcircled{4}}$ ST2-3 FOR TRUCK FILLER

3 BRINE TRUCK FILLER
NO SCALE



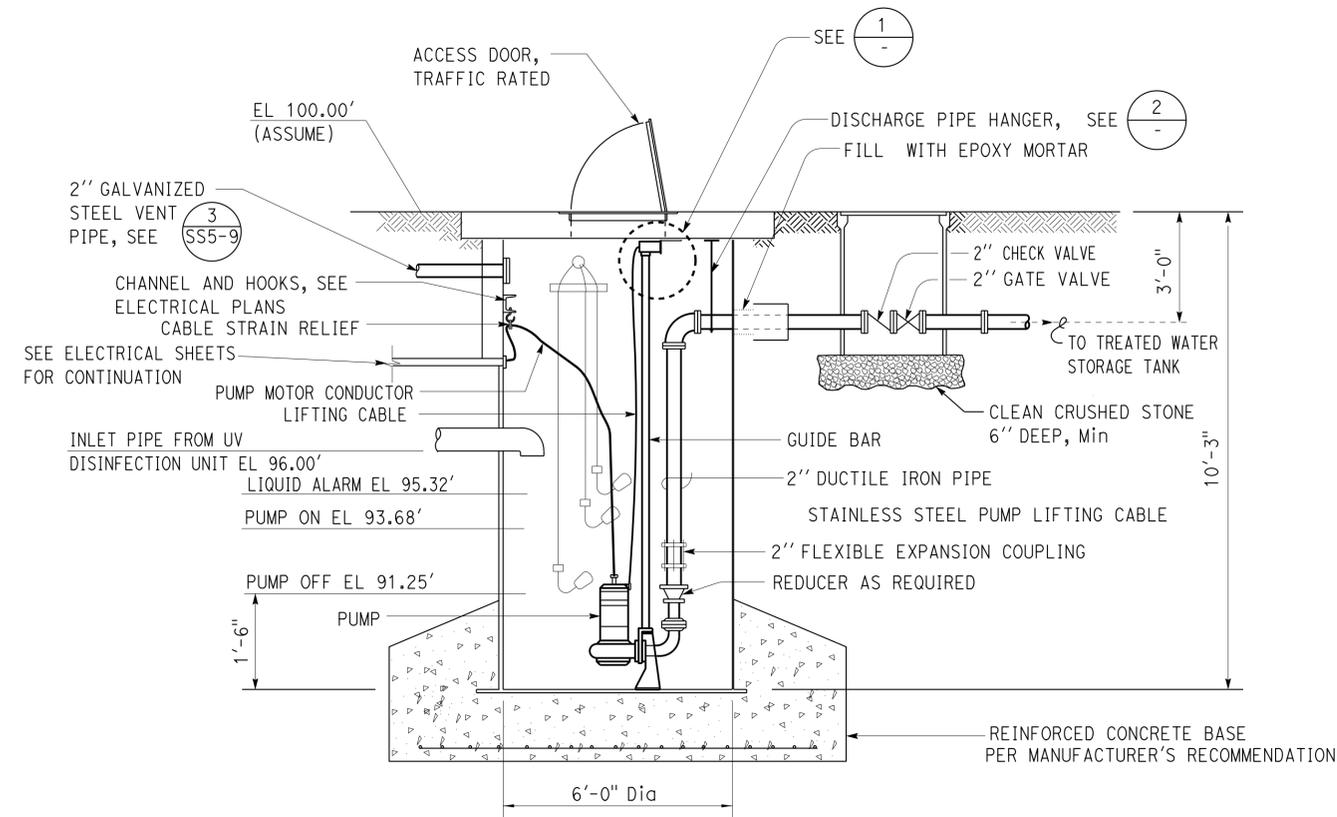
1 OBSERVATION WELL
NO SCALE

NOTE:
 $\text{\textcircled{A}}$ PLACE 2 PER INFILTRATION CHAMBER, ONE IN THE CENTER AND ONE AT THE END OF EACH CHAMBER.

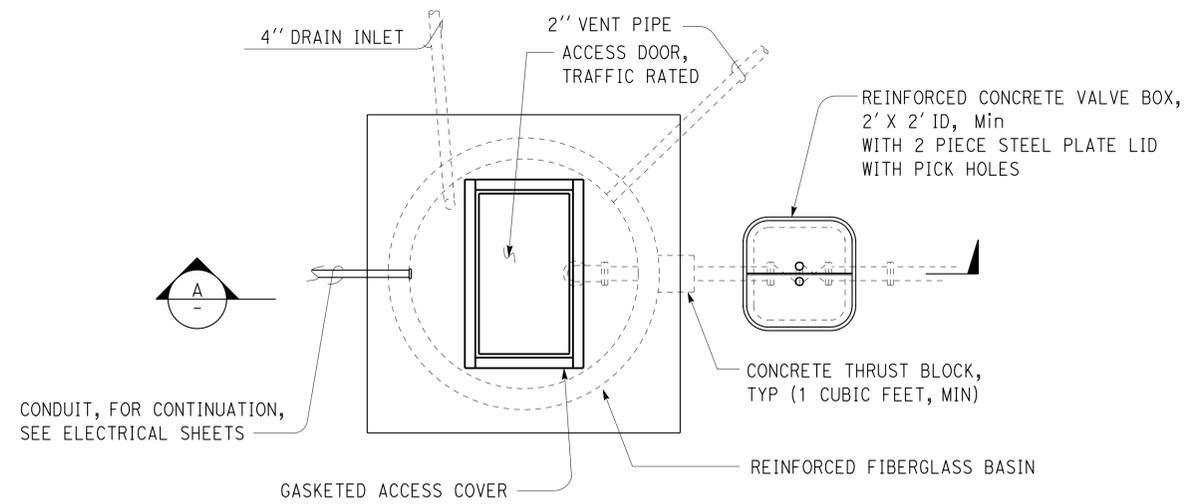


2 INFILTRATION CHAMBERS
NO SCALE

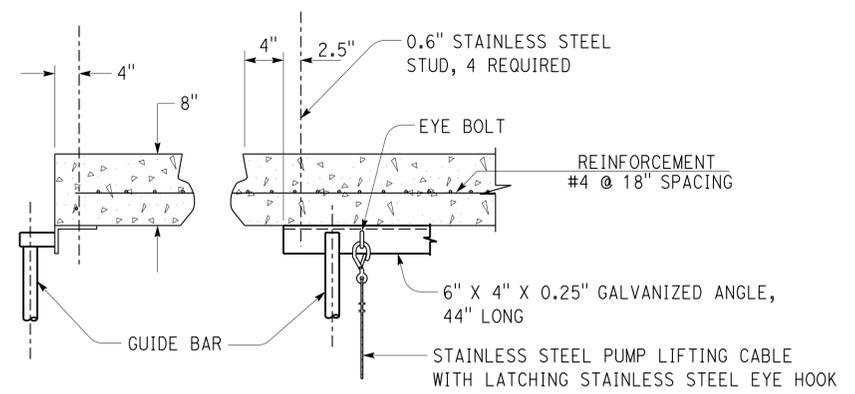
DESIGN BY <i>Amar Baidwan</i> CHECKED <i>Jerry Marcotte</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO.	DISTRICT 10 WASHRACKS PHASE 2	SHEET OF SS5-5
DETAILS BY <i>Amar Baidwan</i> CHECKED <i>Jerry Marcotte</i>		ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	VARIOUS		
QUANTITIES BY <i>Amar Baidwan</i> CHECKED <i>Jerry Marcotte</i>			POST MILE		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	UNIT PROJECT NUMBER & PHASE 3616 10120001811	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
EA 0X2101			4-12-12 5-25-12 6-27-12 7-28-12 11-14-13		ss5_5.dgn



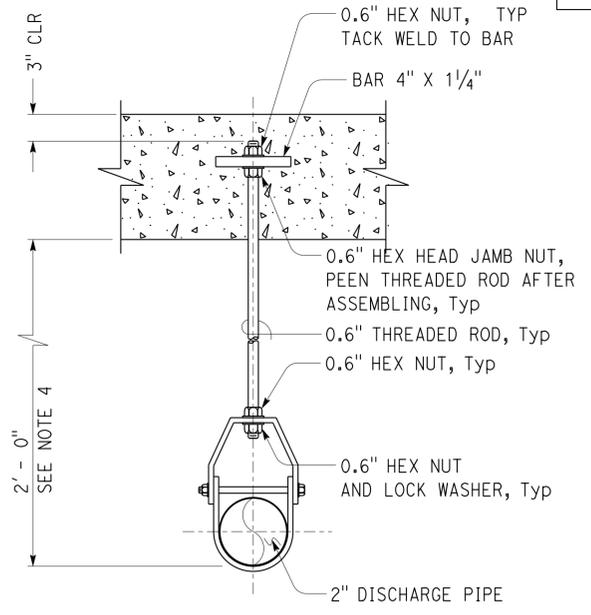
A SECTION



LIFT STATION
NO SCALE



1 SECTION



2 PIPE HANGER DETAIL

PUMP EQUIPMENT SCHEDULE						
EQUIPMENT	PUMPING RATE (GPM)	TOTAL DYNAMIC HEAD (FT)	SPEED (RPM)	HP	VOLTS	PHASE
SEWAGE PUMP	31	44'	3450 (Max)	3/4	115	1
	35	40'				
	39	36'				

NOTES:

- For Inlet, Outlet and Vent orientation and installation location, see Sheet SS1-3, SS2-3 and SS4-3
- Guide Bar to suit Pump manufacturer's recommendation.
- Pumping Station grades are based on inlet grades. If Inlet Elevation changes, adjust grades as per Engineer's instructions.
- All ferrous parts of Pipe Hanger shall be hot-dipped galvanized after fabrication.
- All fastener to concrete and fiberglass shall be devices with Stainless Steel threaded stud, hex nut and flat washer. Size of stud is as shown.
- Cable length shall be continuous from motor to controls without splices.
- Provide fastening as required by manufacturer.

DESIGN	BY Amar Baidwan	CHECKED Jerry Marcotte
DETAILS	BY Amar Baidwan	CHECKED Andy Quan
QUANTITIES	BY Amar Baidwan	CHECKED Jerry Marcotte

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO. VARIOUS
POST MILE

DISTRICT 10 WASHRACKS PHASE 2

DETAILS-3

SHEET **SS5-6** OF

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Cal	4,88	Var	183	187

<i>Jerome R. Marcotte</i> REGISTERED CIVIL ENGINEER	1/14/13 DATE
--	-----------------

7-22-13 PLANS APPROVAL DATE

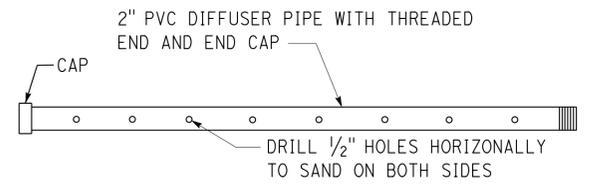
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.



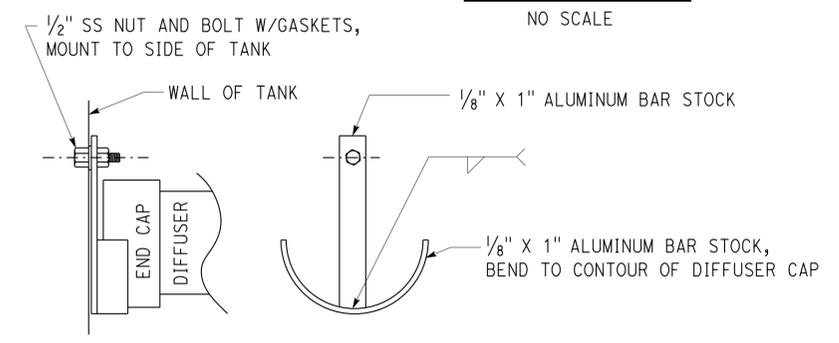
CALIFORNIA STATE FIRE MARSHAL APPROVED

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.

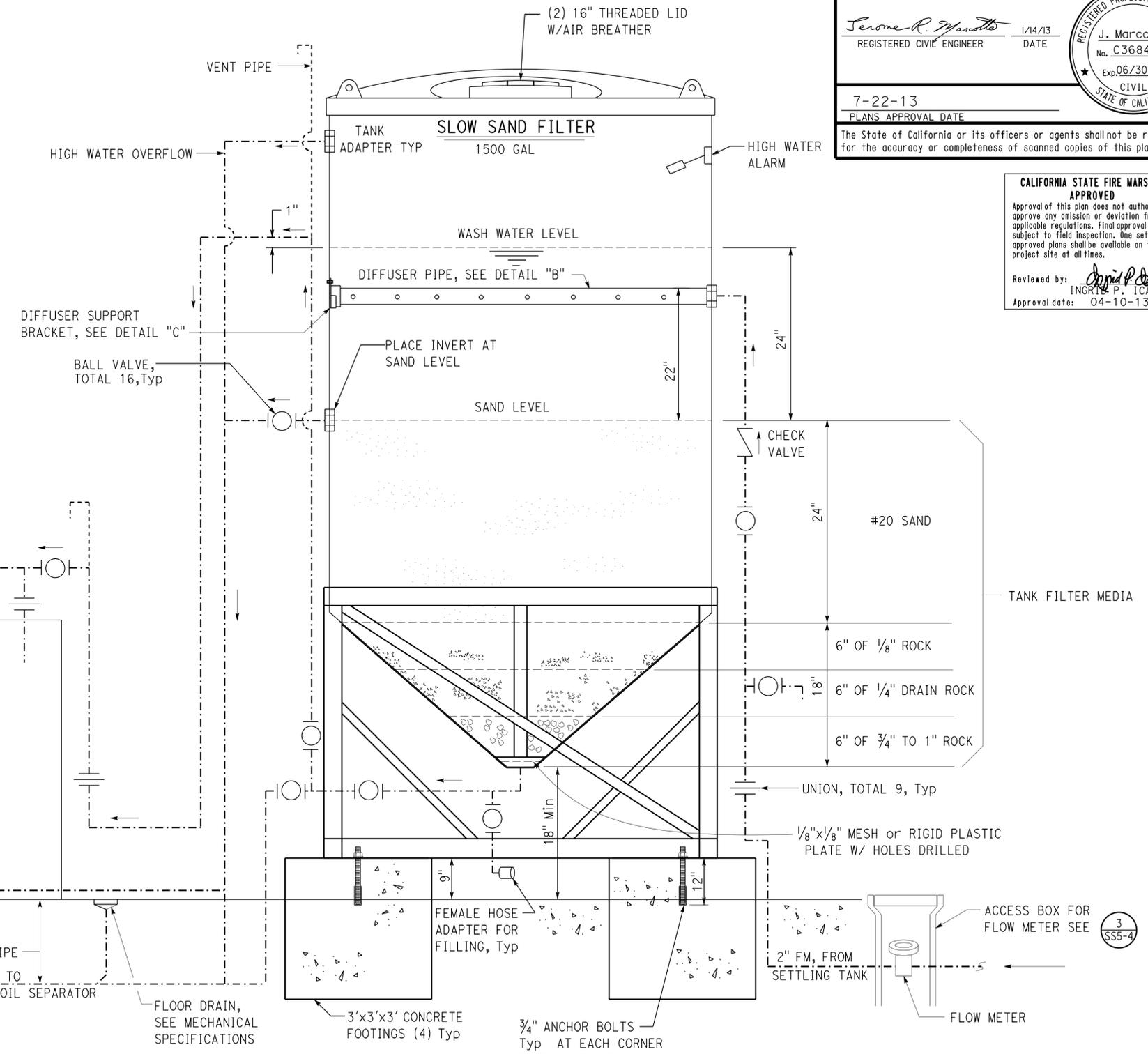
Reviewed by: *David P. Casiano*
INGR. P. CASIANO
Approval date: 04-10-13



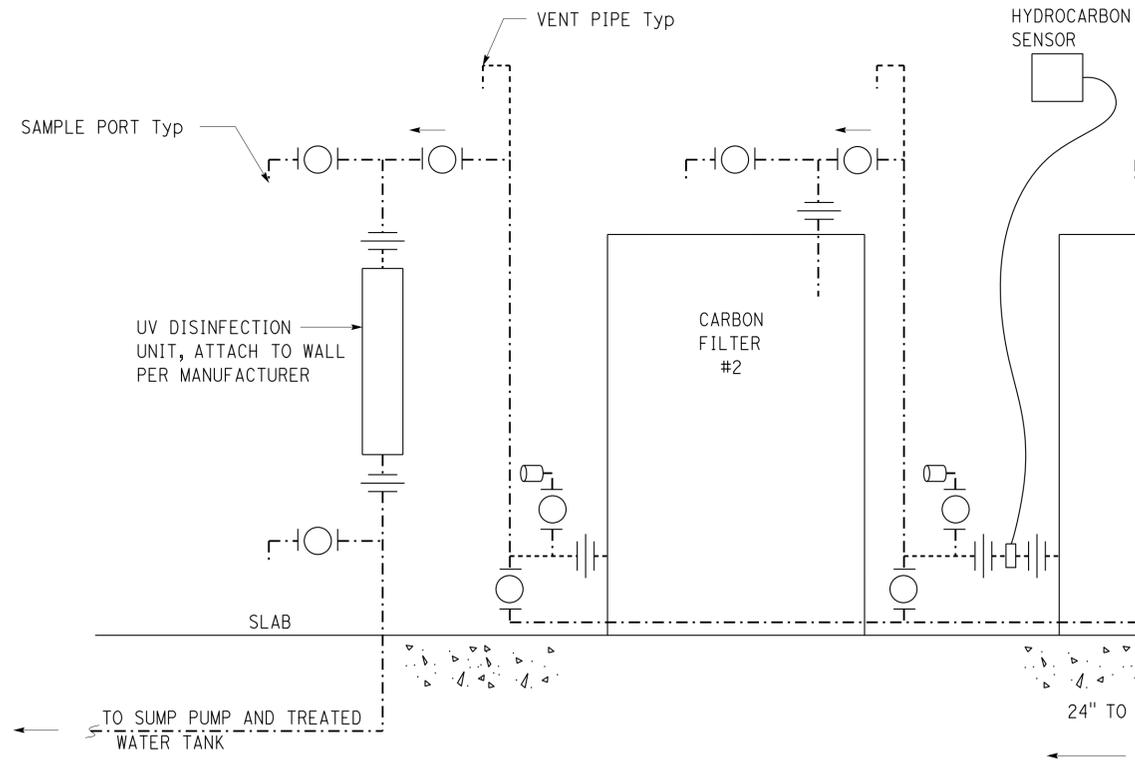
DETAIL B
NO SCALE



DETAIL C
NO SCALE



WASH WATER FILTER SYSTEM
NO SCALE



NOTE:
All piping shall be 2" PVC

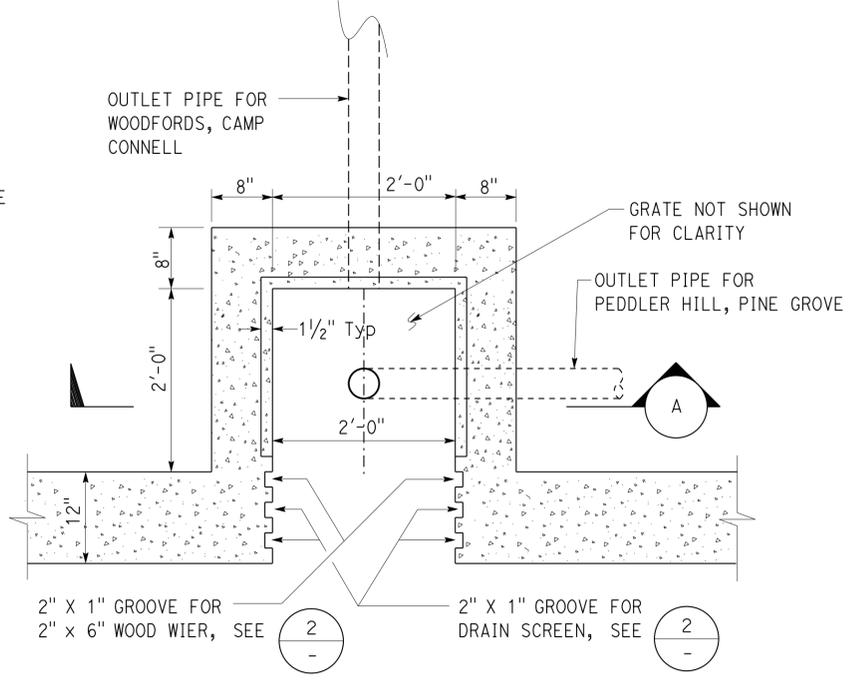
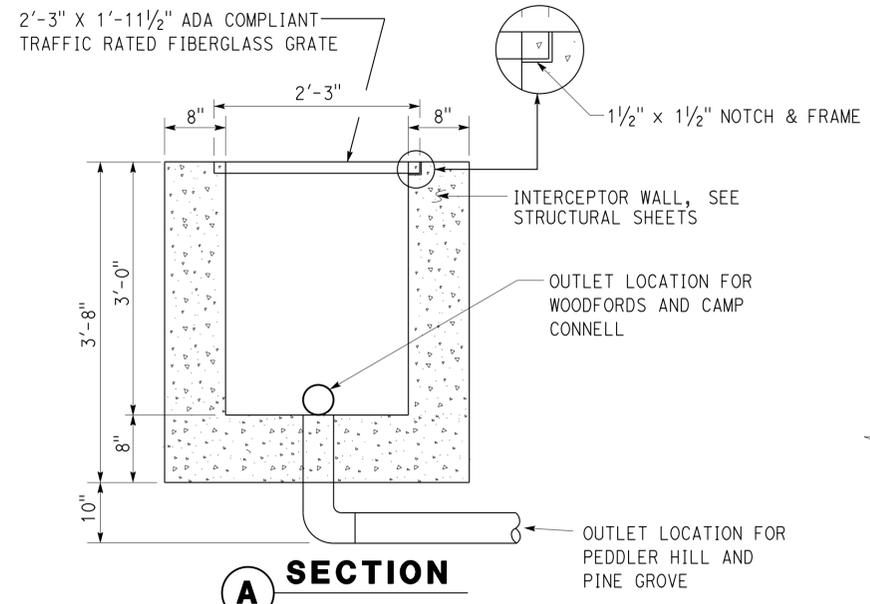
DESIGN BY <i>Amar Baidwan</i> CHECKED <i>Jerry Marcotte</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. VARIOUS POST MILE	DISTRICT 10 WASHRACKS PHASE 2		SHEET OF SS5-7										
				DETAILS-4												
DETAILS BY <i>J.R. Stangl</i> CHECKED <i>Jerry Marcotte</i>	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3616 10120001811	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF										
QUANTITIES BY <i>Amar Baidwan</i> CHECKED <i>Jerry Marcotte</i>				4-28-12	5-25-12	6-28-12	7-28-12	8-14-13								

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Cal	4,88	Var	184	187

<i>Jerome R. Marcotte</i>		1/14/13
REGISTERED CIVIL ENGINEER	DATE	

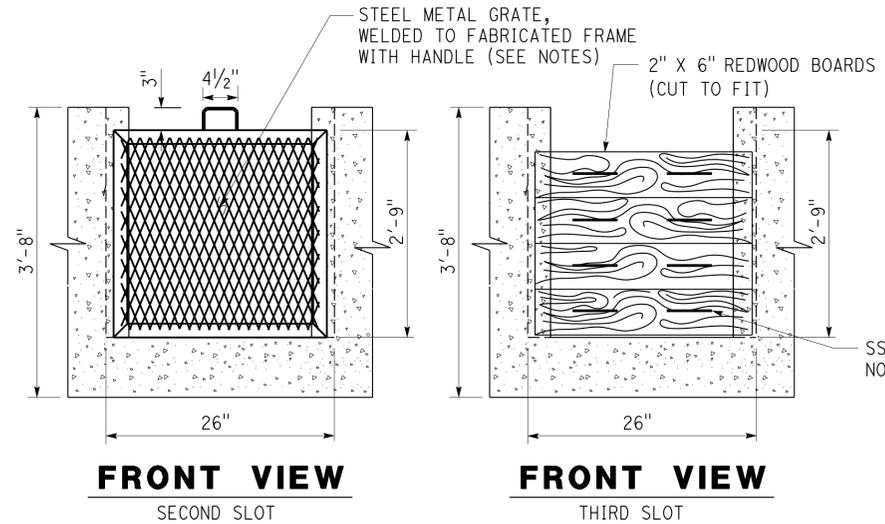
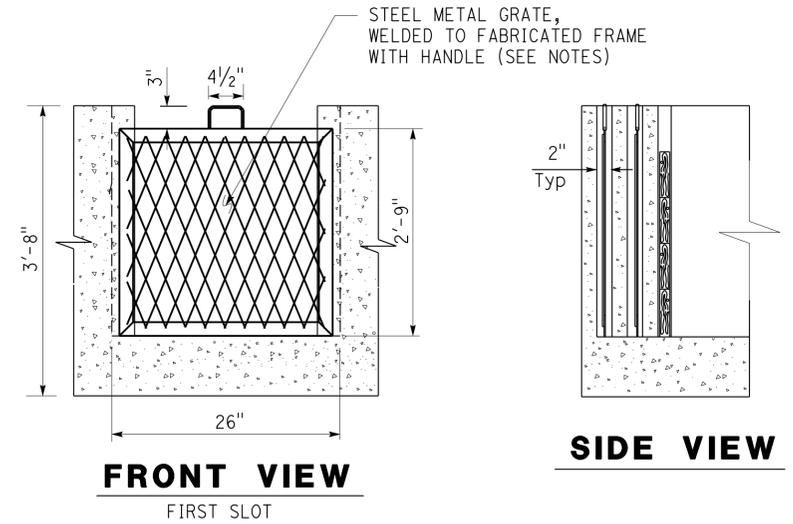
7-22-13	
PLANS APPROVAL DATE	

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



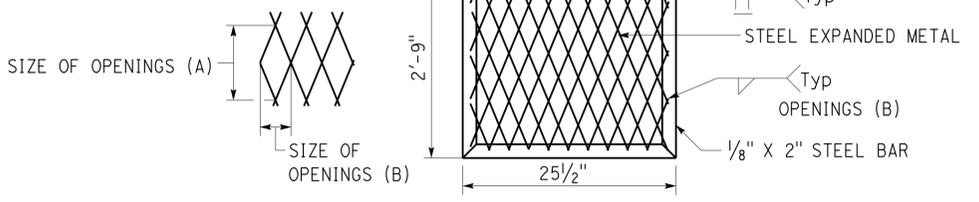
1 **OUTLET BOX**
1"=1'-0"

PLAN VIEW

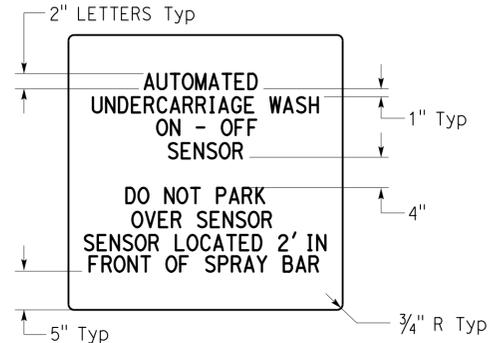


2 **DRAIN SCREEN FILTER AND WIER**
1"=1'-0"

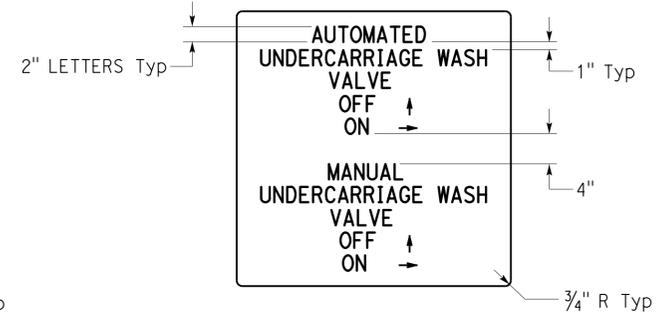
- NOTES:
- For First Slot, Style 1/2" #13 Expanded Metal, size of openings to be: (A) = 2 1/2" X (B) = 1 3/16"
 - For Second Slot, Style 3/4" #13 Expanded Metal, size of openings to be: (A) = 1 1/16" X (B) = 3/4"
 - For Third Optional Screen, Style 1/2" #16 Expanded Metal, size of openings to be: (A) = 1 5/16" X (B) = 3/8"
 - See Screen Fabrication Detail



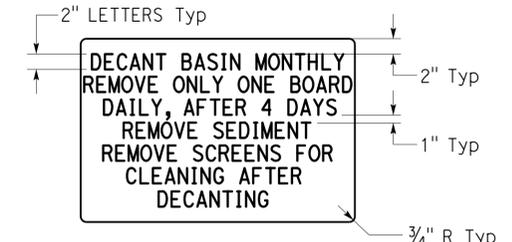
SCREEN FABRICATION DETAIL
(Typ) FOR FIRST AND SECOND SCREENS, AND OPTIONAL THIRD SCREEN
(SEE NOTES FOR OPENING SIZES)



3 **SIGN DETAIL**
1"=1'-0"
NOTE: 1. RED LETTERS ON WHITE BACKGROUND
2. SIGN TO BE 3'-0" X 3'-0"



4 **SIGN DETAIL**
1"=1'-0"
NOTE: 1. RED LETTERS ON WHITE BACKGROUND
2. SIGN TO BE 3'-0" X 3'-0"



5 **SIGN DETAIL**
1"=1'-0"
NOTES:
1. RED LETTERS ON WHITE BACKGROUND
2. SIGN TO BE 2'-0" X 3'-0"

DESIGN BY	Amar Baidwan	CHECKED	Jerry Marcotte	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	DISTRICT 10 WASHRACKS PHASE 2	SHEET
DETAILS BY	Amar Baidwan	CHECKED	Jerry Marcotte			VARIOUS		SS5-8
QUANTITIES BY	Amar Baidwan	CHECKED	Jerry Marcotte			POST MILE		DETAILS-5

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0	1	2	3
--	---	---	---	---

UNIT PROJECT NUMBER & PHASE	3616 10120001811	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
EA 0X2101			4-28-12, 4-28-12, 6-27-12, 7-28-12, 11-09-12, 11-14-13	OF

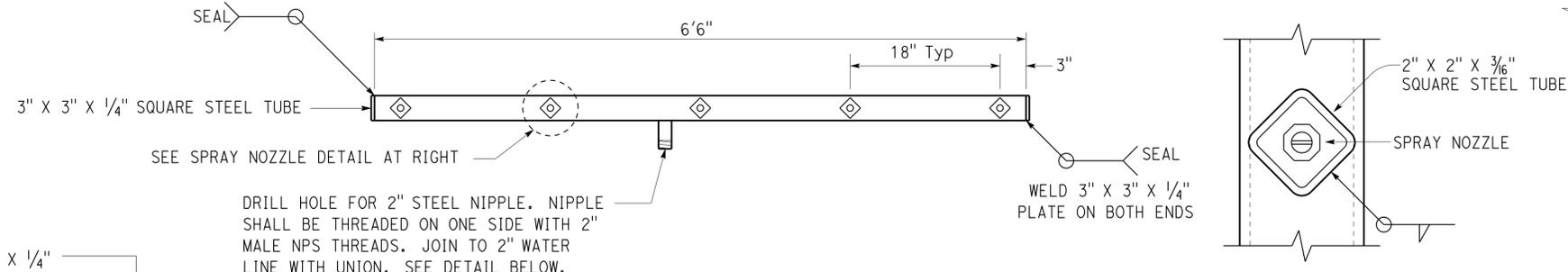
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Cal	4,88	Var	185	187

<i>Serome R. Marcotte</i> REGISTERED CIVIL ENGINEER	1/14/13 DATE
7-22-13 PLANS APPROVAL DATE	



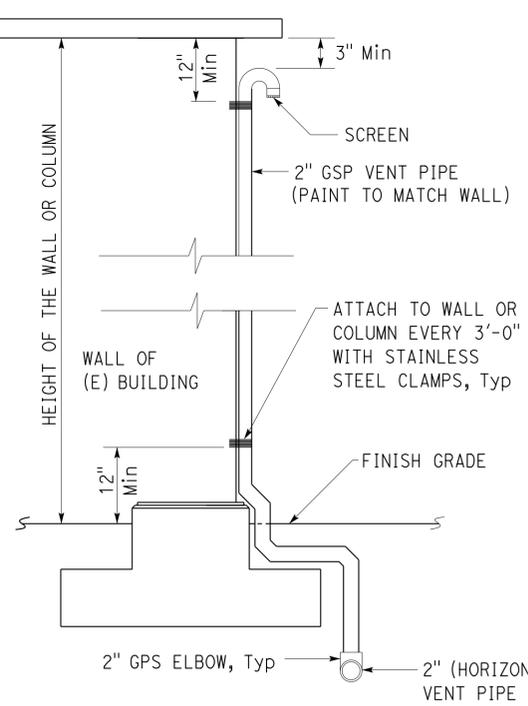
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.

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: *Ignacio P. Casiano*
 IGNACIO P. CASIANO
 Approval date: 04-10-13
 CSFM No. N-12-1027, N-12-1028, N-12-1029, N-12-1030



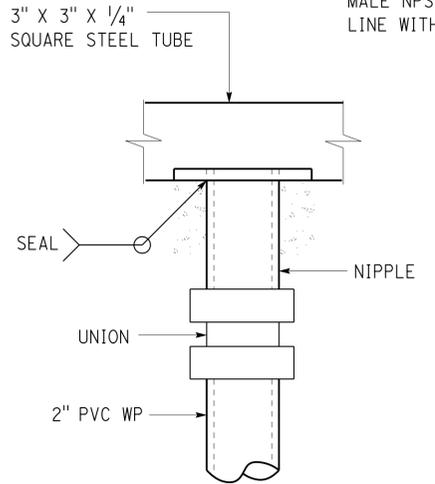
SPRAY BAR
NO SCALE

SPRAY NOZZLE DETAIL
NO SCALE



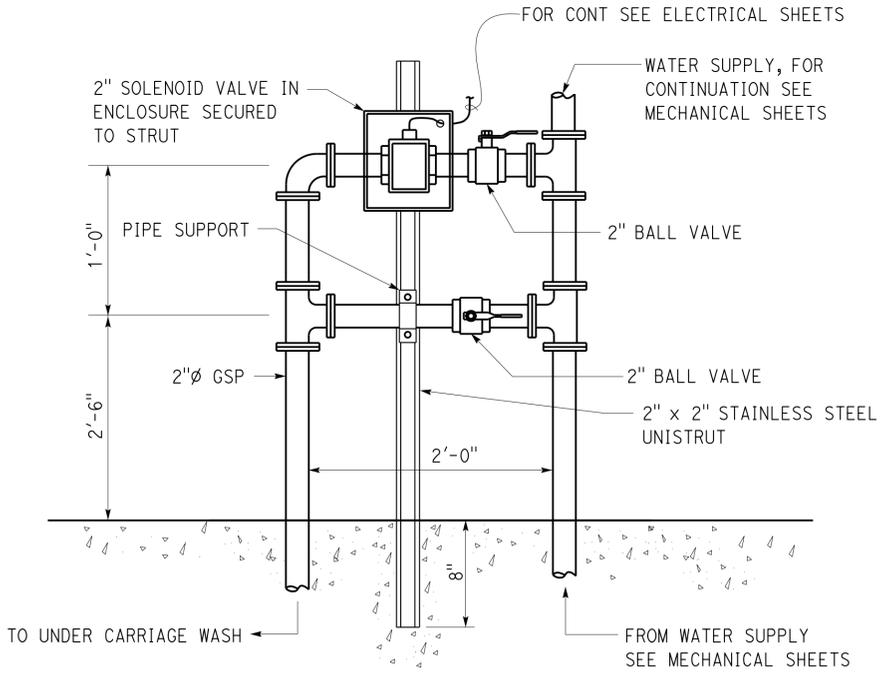
3 VENT PIPE ON WALL OR COLUMN
NO SCALE

GENERAL NOTE:
All steel parts shall be galvanized.

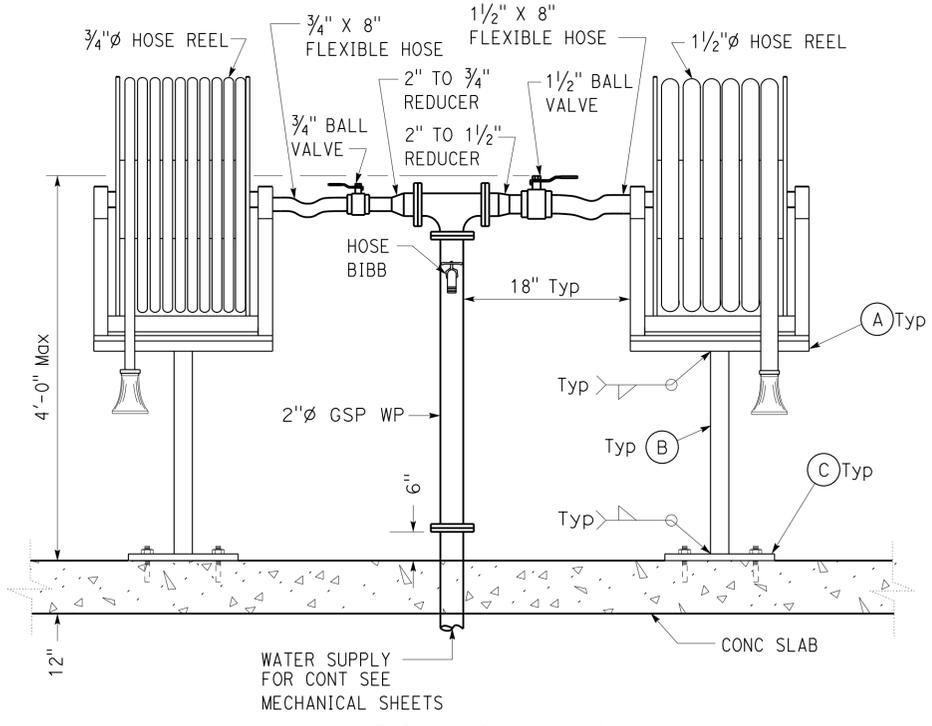


NIPPLE DETAIL
NO SCALE

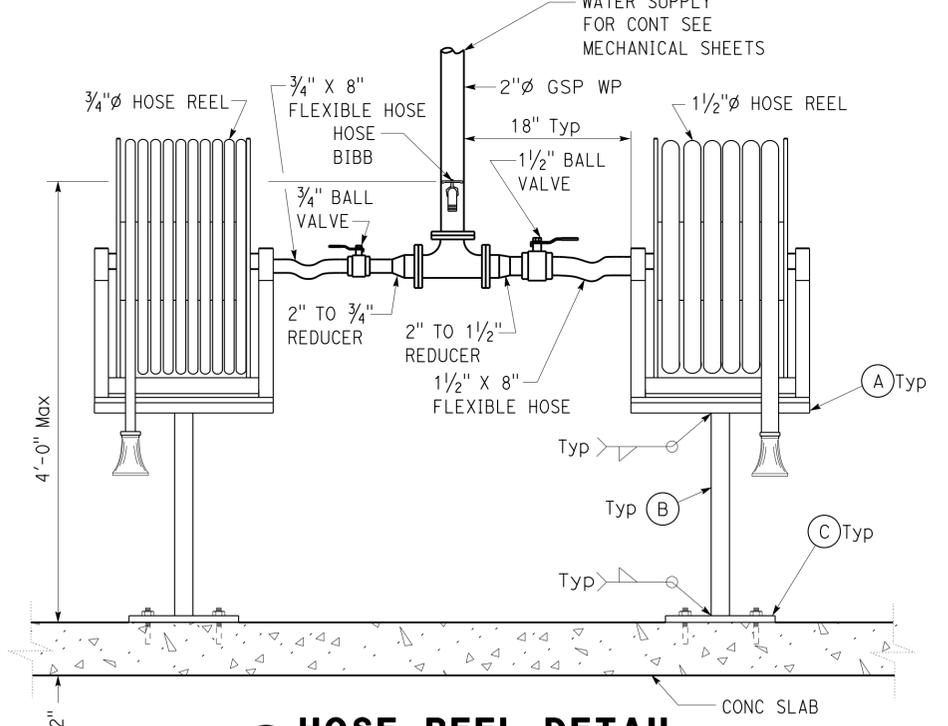
1 UNDERCARRIAGE WASH DETAIL
NO SCALE



2 SOLENOID VALVE INSTALLATION DETAIL
NO SCALE



4 HOSE REEL DETAIL
NO SCALE



5 HOSE REEL DETAIL
NO SCALE

FABRICATION NOTES TYP:

- (A) 1/4" steel plate, size per template from reel manufacturer.
- (B) 3" square steel tube.
- (C) 9" x 9" x 1/4" steel plate. Secure with 4 3/8" x 3" bolts with washers, Paint color to match equipment bldg. Avoid hydronic heating tubing when securing steel plate.

FABRICATION NOTES TYP:

- (A) 1/4" steel plate, size per template from reel manufacturer.
- (B) 3" square steel tube.
- (C) 9" x 9" x 1/4" steel plate. Secure with 4 3/8" x 3" bolts with washers, Paint color to match equipment bldg. Avoid hydronic heating tubing when securing steel plate.

DESIGN	BY Amar Baidwan	CHECKED Jerry Marcotte
DETAILS	BY Amar Baidwan	CHECKED Jerry Marcotte
QUANTITIES	BY Amar Baidwan	CHECKED Jerry Marcotte

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

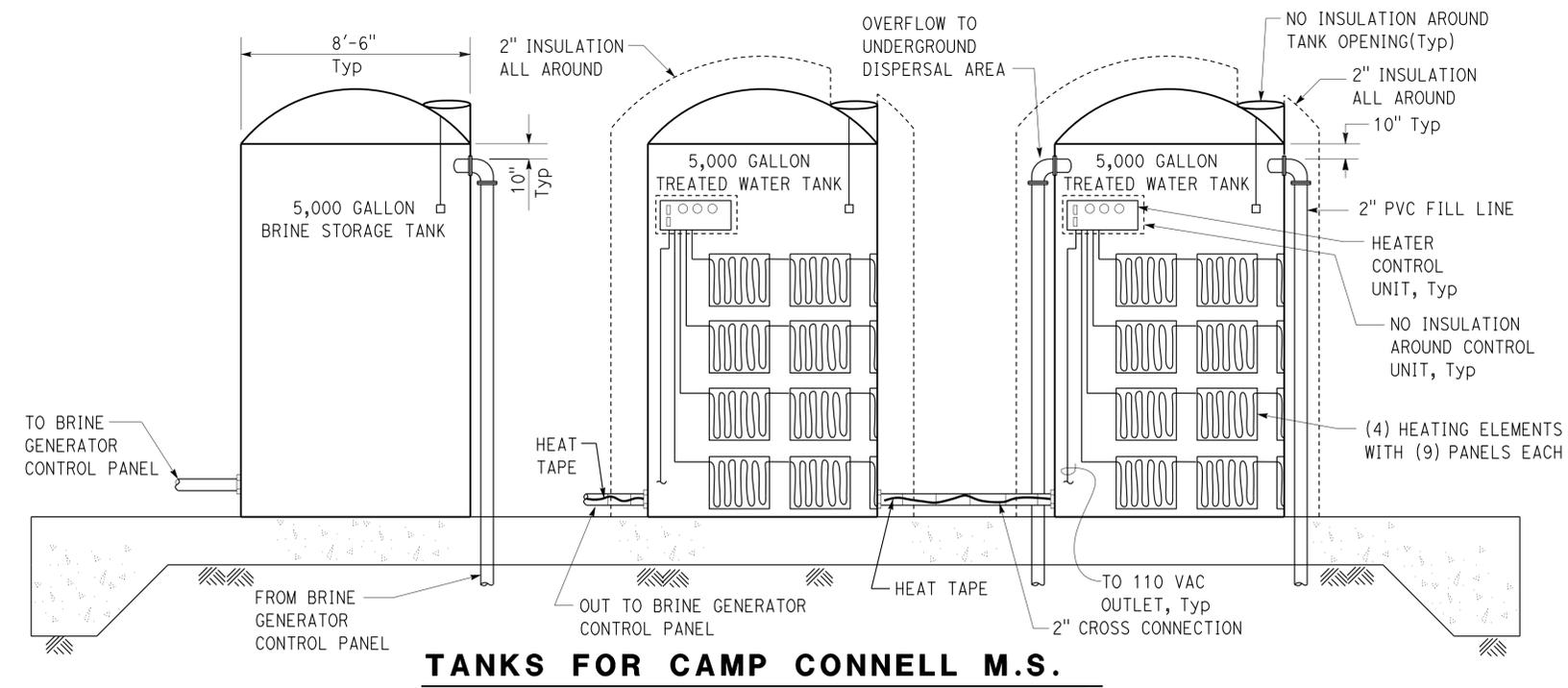
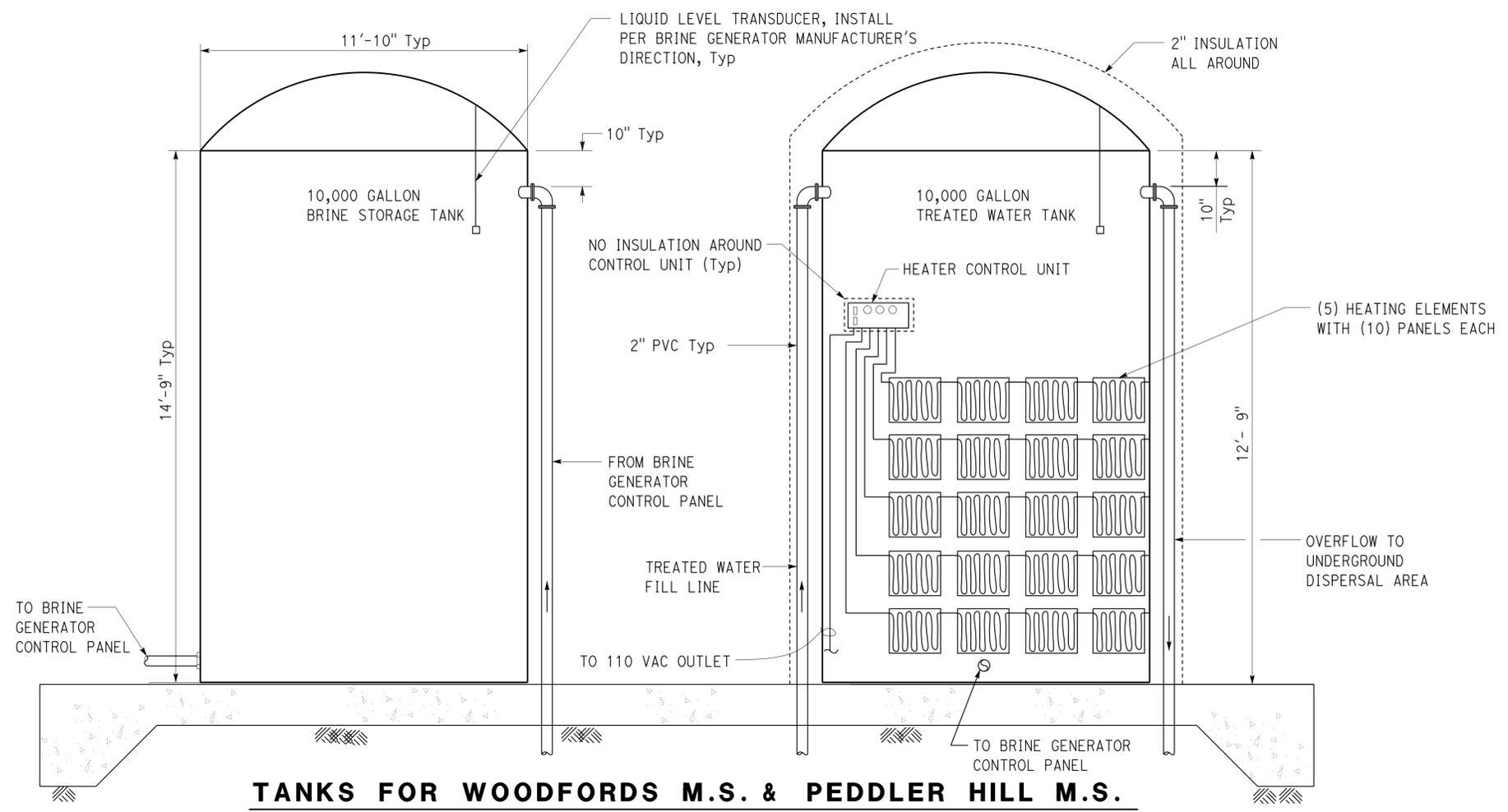
DIVISION OF ENGINEERING SERVICES
ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE NO.	VARIOUS
POST MILE	

DISTRICT 10 WASHRACKS PHASE 2
DETAILS-6
SHEET **SS5-9**

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Cal	4,88	Var	186	187

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>Ingrid P. Casiano</i> INGRID P. CASIANO Approval date: 04-10-13 CSFM No. N-12-1027, N-12-1028, N-12-1029, N-12-1030		REGISTERED CIVIL ENGINEER DATE 1/14/13 J. Marcotte No. C36844 Exp. 06/30/14 CIVIL STATE OF CALIFORNIA
7-22-13		PLANS APPROVAL DATE
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.		



- Note:
- All dimensions and volumes are nominal
 - All bulkheads to be by tank manufacturer
 - Heat tape all exposed piping (except pipes to and from brine tank)

DESIGN BY Amar Baidwan	CHECKED Jerry Marcotte	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. VARIOUS	DISTRICT 10 WASHRACKS PHASE 2	SHEET
DETAILS BY Amar Baidwan	CHECKED Jerry Marcotte		ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	POST MILE		
QUANTITIES BY Amar Baidwan	CHECKED Jerry Marcotte		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3616 10120001811	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 4-28-12 5-25-12 6-28-12 7-28-12 11-14-13

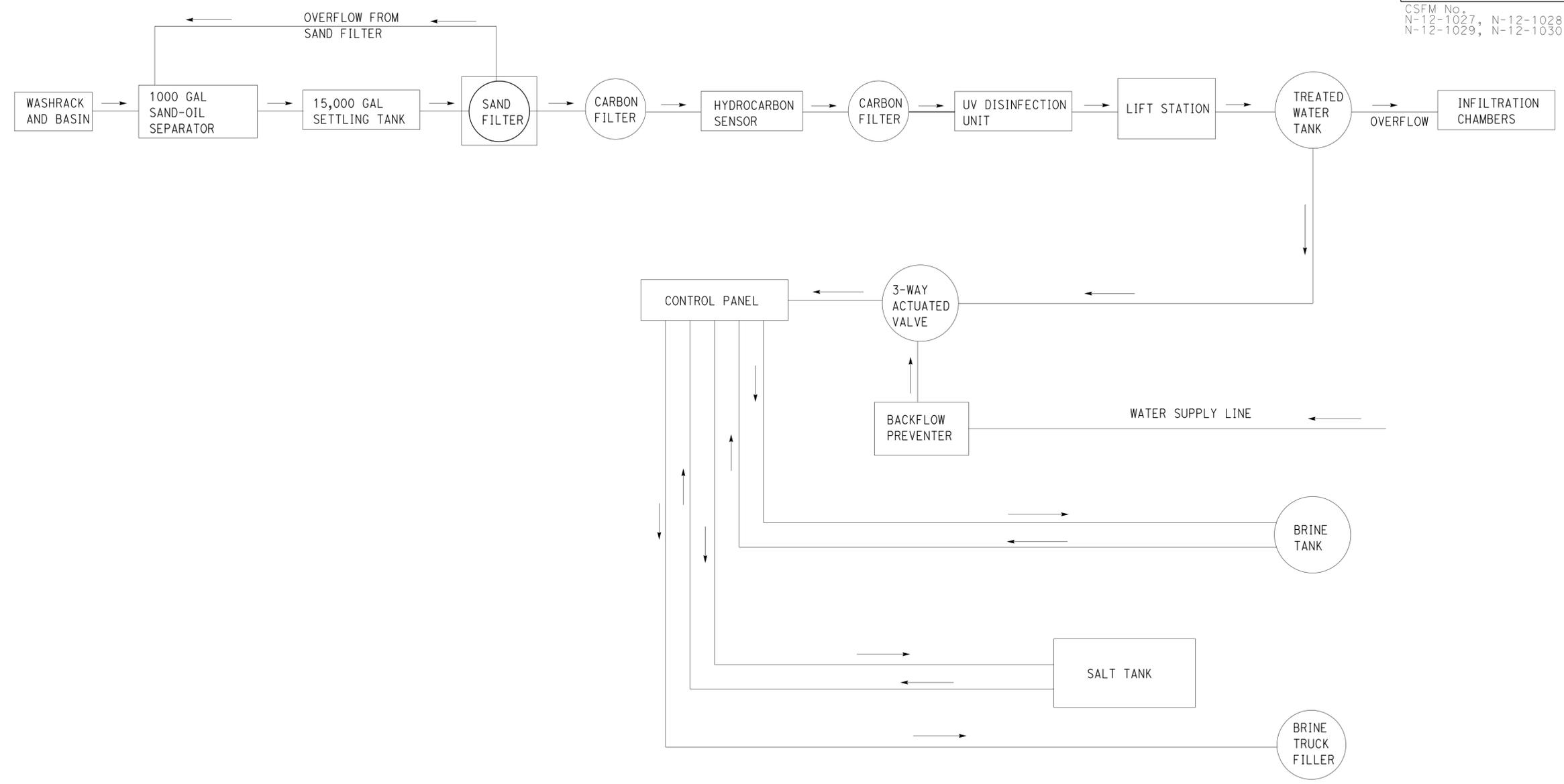
TAEMWW Imperial Rev. 3/12
EA 0X2101
23-SEP-2013 09:48
ss5_10.dgn

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alameda, Cal	4,88	Var	187	187
Reviewed by: <i>Jerry Marcotte</i> REGISTERED CIVIL ENGINEER DATE 1/14/13				J. Marcotte No. C36844 Exp. 06/30/14 CIVIL STATE OF CALIFORNIA	
7-22-13				PLANS APPROVAL DATE	
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned 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: *Ingrid P. Casiano*
 INGRID P. CASIANO
 Approval date: 04-10-13

CSFM No.
 N-12-1027, N-12-1028,
 N-12-1029, N-12-1030



SCHEMATIC FOR WASTEWATER AND BRINE SYSTEM

TAEMWW Imperial Rev. 3/12 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	DESIGN BY <i>Amar Baidwan</i> CHECKED <i>Jerry Marcotte</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO.	DISTRICT 10 WASHRACKS PHASE 2 WASTEWATER AND BRINE SYSTEM SCHEMATIC	SHEET
	DETAILS BY <i>Amar Baidwan</i> CHECKED <i>Jerry Marcotte</i>		ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	VARIOUS		SS5-11
	QUANTITIES BY <i>Amar Baidwan</i> CHECKED <i>Jerry Marcotte</i>		PROJECT NUMBER & PHASE 10120001811	POST MILE		
EA 0X2101			UNIT 3616	DISREGARD PRINTS BEARING EARLIER REVISION DATES →		REVISION DATES (PRELIMINARY STAGE ONLY) 4-28-12 5-25-12 6-27-12 7-26-12 11-14-13

23-SEP-2013 09:48
ss5_11.dgn