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4-14	REVISED STANDARD PLANS

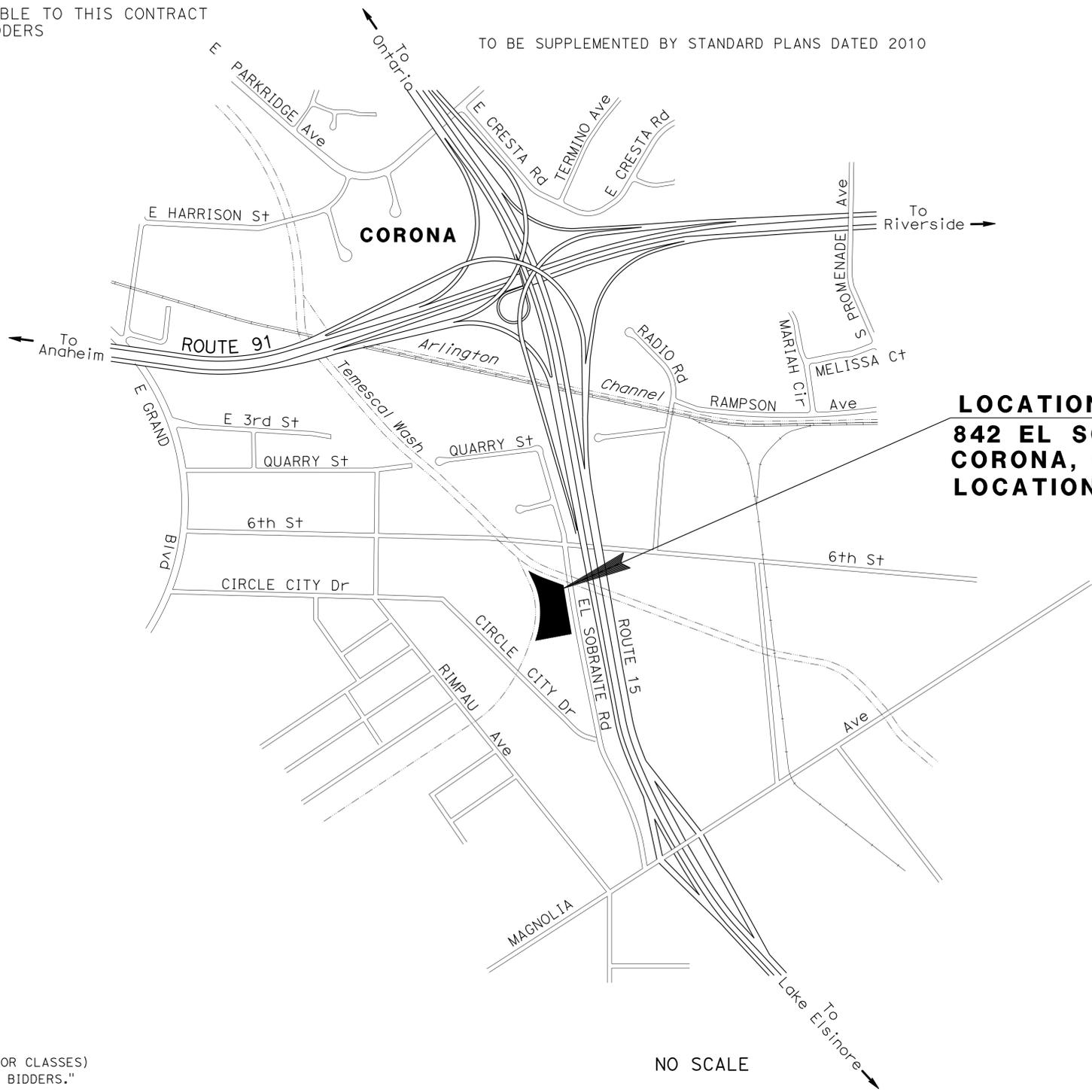
BUILDING PLANS

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THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

STATE OF CALIFORNIA  
**DEPARTMENT OF TRANSPORTATION**  
**PROJECT PLANS FOR BUILDING CONSTRUCTION**  
**IN RIVERSIDE COUNTY**  
**IN CORONA**  
**AT THE CORONA MAINTENANCE STATION**

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010



**LOCATION OF CONSTRUCTION**  
**842 EL SOBRANTE ROAD**  
**CORONA, CA 92879-5729**  
**LOCATION CODE 5730**

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		1	106

LOCATION MAP

PROJECT MANAGER CATALINO PINING	DESIGN ENGINEER RHEA VILLARAMA
------------------------------------	-----------------------------------

THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO BIDDERS."

NO SCALE

PROJECT ENGINEER      DATE 12-23-13  
 REGISTERED CIVIL ENGINEER

REGISTERED PROFESSIONAL ENGINEER  
 MICHAEL P. RISTIC  
 No. C69429  
 Exp. 6-30-14  
 CIVIL  
 STATE OF CALIFORNIA

**March 24, 2014**  
 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.

CONTRACT No.	<b>08-OR9704</b>
PROJECT ID	<b>0812000224</b>

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** MAINTENANCE DESIGN

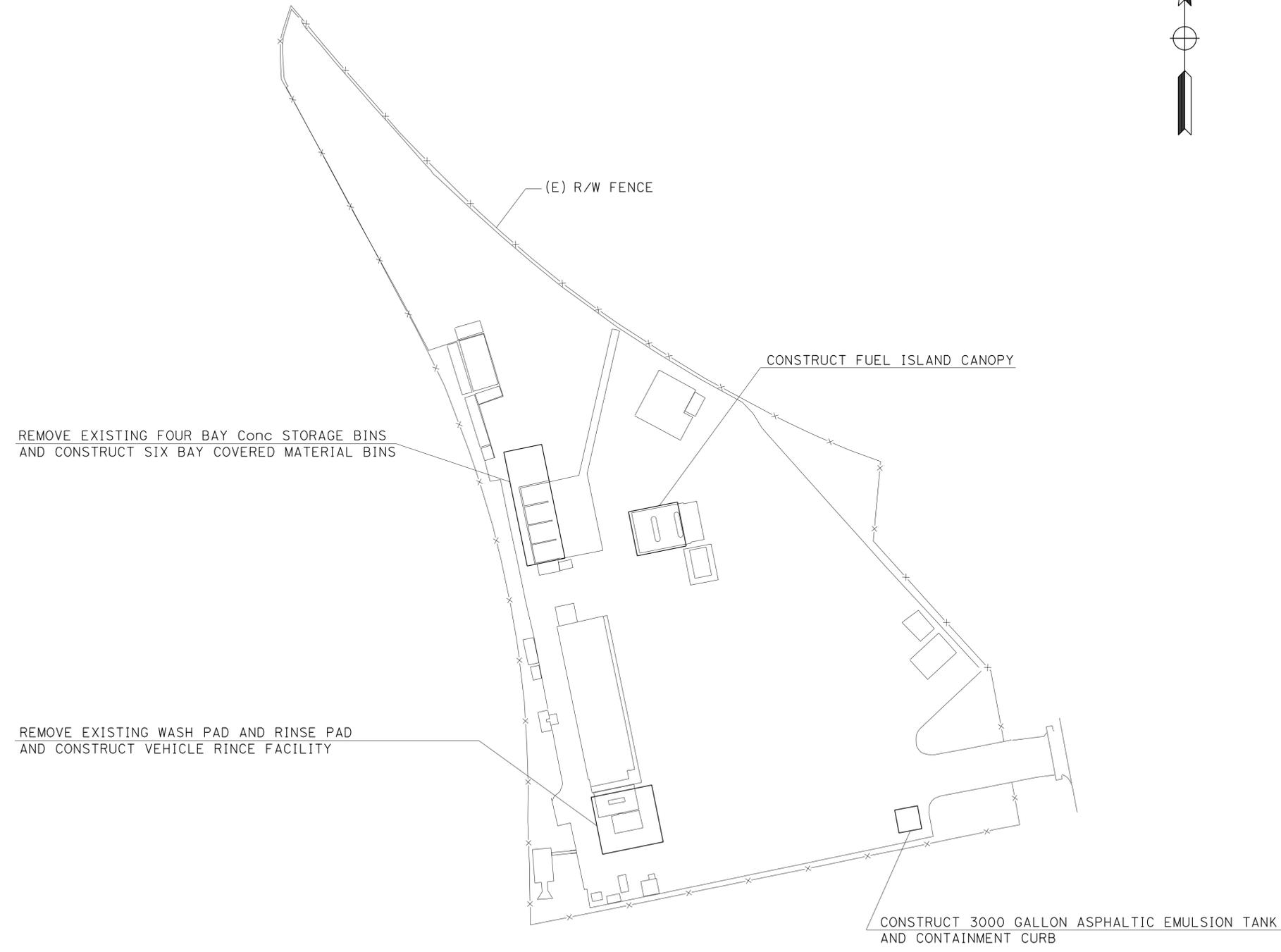
FUNCTIONAL SUPERVISOR  
 MICHAEL P. RISTIC

CALCULATED/DESIGNED BY  
 CHECKED BY

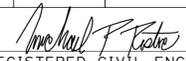
RHEA VILLARAMA  
 MICHAEL P. RISTIC

REVISED BY  
 DATE REVISED

**NOTE:**  
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		2	106

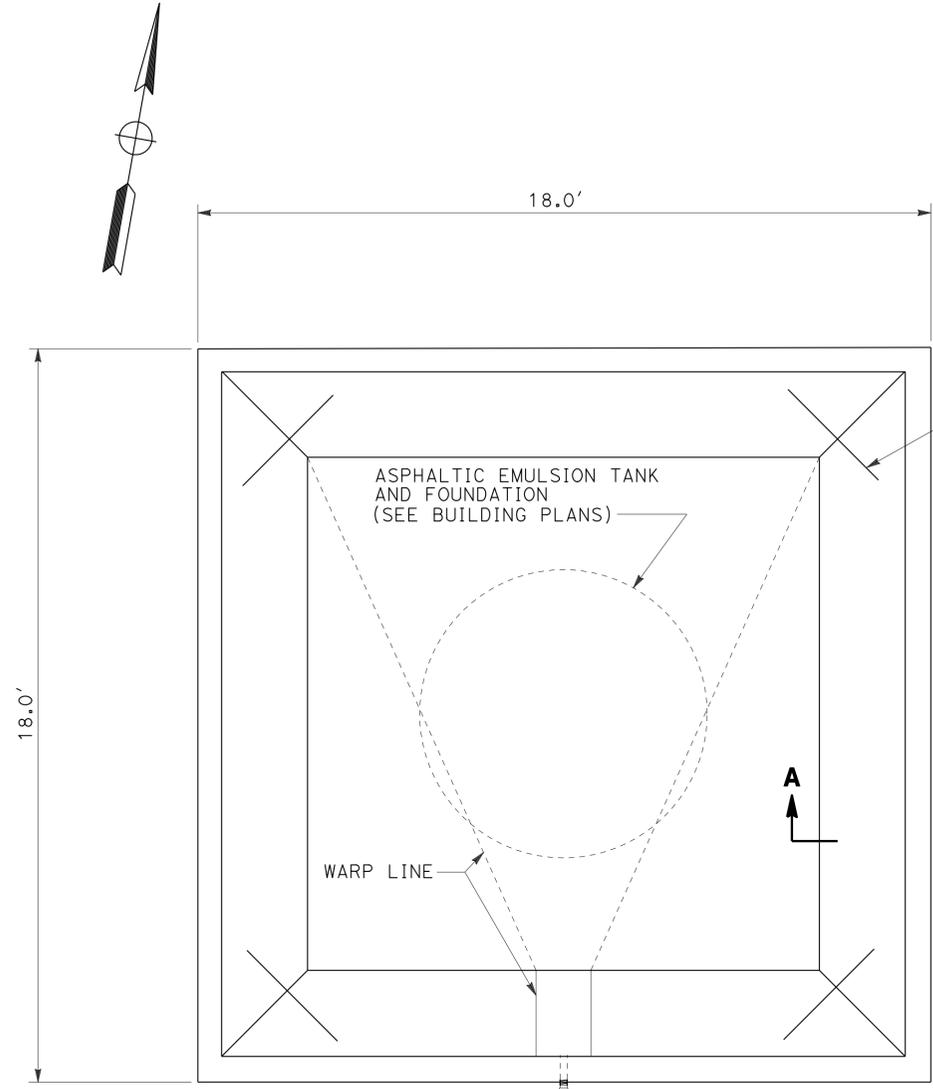
 12-23-13  
 REGISTERED CIVIL ENGINEER DATE

3-24-14  
 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.

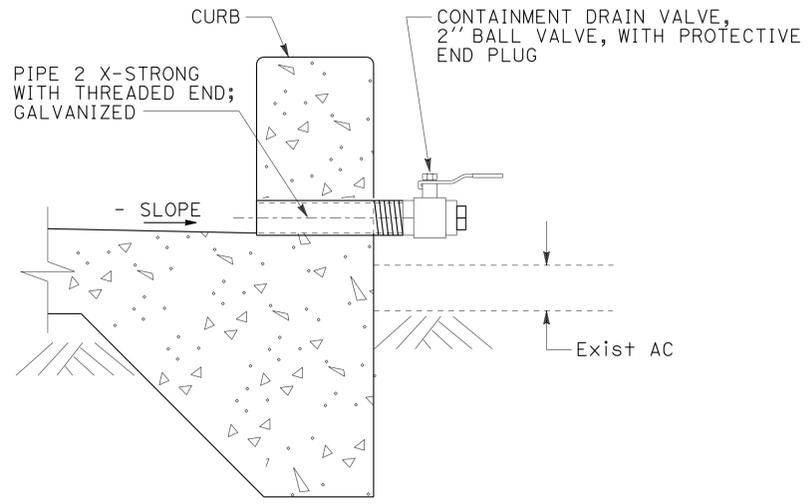
REGISTERED PROFESSIONAL ENGINEER  
 MICHAEL P. RISTIC  
 No. C69429  
 Exp. 6-30-14  
 CIVIL  
 STATE OF CALIFORNIA

**LAYOUT**  
 NO SCALE **L-1**

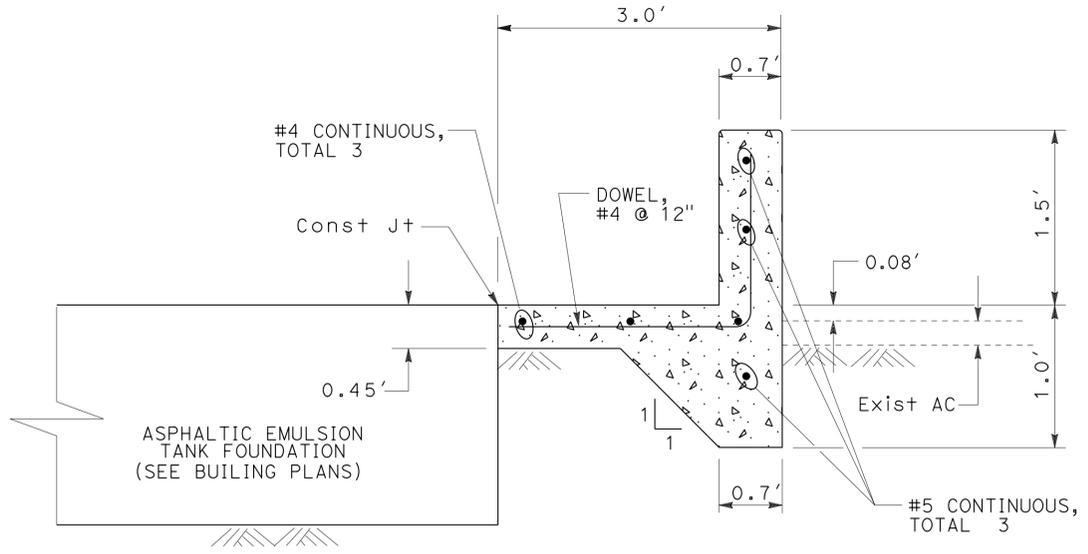


**CONTAINMENT APRON/CURB PLAN**

ITEM	QUANTITY
	CY
MINOR CONCRETE	6.9



**DETAIL A**  
CONTAINMENT DRAIN VALVE DETAIL



**SECTION A-A**  
CONTAINMENT APRON/CURB SECTION

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** MAINTENANCE DESIGN  
 FUNCTIONAL SUPERVISOR: MICHAEL P. RISTIC  
 CHECKED BY: MICHAEL P. RISTIC  
 DESIGNED BY: MICHAEL P. RISTIC  
 REVISIONS: RHEA VILLARAMA, MICHAEL P. RISTIC  
 REVISED BY: DATE REVISIONS

LAST REVISION DATE PLOTTED => 28-MAR-2014  
 12-23-13 TIME PLOTTED => 07:55

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		4	106

*Grace M. Tsushima*  
REGISTERED CIVIL ENGINEER

July 19, 2013  
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.

TO ACCOMPANY PLANS DATED 3-24-14

**UNIT OF MEASUREMENT SYMBOLS:**

Some of the symbols used in the project plan quantity tables and in the Bid Item List are:

**TABLE A**

SYMBOL USED	DEFINITIONS
ACRE	ACRE
CF	CUBIC FOOT
CY	CUBIC YARD
EA	EACH
GAL	GALLON
LB	POUND
LF	LINEAR FOOT
SQFT	SQUARE FOOT
SQYD	SQUARE YARD
STA	100 FEET
TAB	TABLET
TON	2,000 POUNDS

Some of the symbols used in the plans other than in the project plan quantity tables are:

**TABLE B**

SYMBOL USED	DEFINITIONS
ksi	KIPS PER SQUARE INCH
ksf	KIPS PER SQUARE FOOT
psi	POUNDS PER SQUARE INCH
psf	POUNDS PER SQUARE FOOT
lb/ft <sup>3</sup> , pcf	POUNDS PER CUBIC FOOT
tsf	TONS PER SQUARE FOOT
mph, MPH *	MILES PER HOUR
ø	NOMINAL DIAMETER
oz	OUNCE
lb	POUND
kip	1,000 POUNDS
cal	CALORIE
ft	FOOT OR FEET
gal	GALLON

\* For use on a sign panel only

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**ABBREVIATIONS  
(SHEET 2 OF 2)**

NO SCALE

RSP A10B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A10B  
DATED MAY 20, 2011 - PAGE 2 OF THE STANDARD PLANS BOOK DATED 2010.

**REVISED STANDARD PLAN RSP A10B**

**M**

Maint	MAINTENANCE
Max	MAXIMUM
MB	METAL BEAM
MBB	METAL BEAM BARRIER
MBGR	METAL BEAM GUARD RAILING
Med	MEDIAN
MGS	MIDWEST GUARDRAIL SYSTEM
MH	MANHOLE
Min	MINIMUM
Misc	MISCELLANEOUS
Misc I & S	MISCELLANEOUS IRON AND STEEL
Mkr	MARKER
Mod	MODIFIED, MODIFY
Mon	MONUMENT
MP	METAL PLATE
MPGR	METAL PLATE GUARD RAILING
MR	MOVEMENT RATING
MSE	MECHANICALLY STABILIZED EMBANKMENT
Mt	MOUNTAIN, MOUNT
MtI	MATERIAL
MVP	MAINTENANCE VEHICLE PULLOUT

**N**

N	NORTH
NB	NORTHBOUND
No.	NUMBER (MUST HAVE PERIOD)
Nos.	NUMBERS (MUST HAVE PERIOD)
NPS	NOMINAL PIPE SIZE
NS	NEAR SIDE
NSP	NEW STANDARD PLAN
NTS	NOT TO SCALE

**O**

Obir	OBLITERATE
OC	OVERCROSSING
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OG	ORIGINAL GROUND
OGAC	OPEN GRADED ASPHALT CONCRETE
OGFC	OPEN GRADED FRICTION COURSE
OH	OVERHEAD
OHWM	ORDINARY HIGH WATER MARK
O-O	OUT TO OUT
Opp	OPPOSITE
OSD	OVERSIDE DRAIN

**P**

p	PAGE
PAP	PERFORATED ALUMINUM PIPE
PB	PULL BOX
PC	POINT OF CURVATURE, PRECAST
PCC	POINT OF COMPOUND CURVE, PORTLAND CEMENT CONCRETE
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN
PCP	PERFORATED CONCRETE PIPE, PRESTRESSED CONCRETE PIPE
PCVC	POINT OF COMPOUND VERTICAL CURVE
PEC	PERMIT TO ENTER AND CONSTRUCT
Ped	PEDESTRIAN
Ped OC	PEDESTRIAN OVERCROSSING
Ped UC	PEDESTRIAN UNDERCROSSING
Perm MtI	PERMEABLE MATERIAL

**P continued**

PG	PROFILE GRADE
PI	POINT OF INTERSECTION
PJP	PARTIAL JOINT PENETRATION
Pkwy	PARKWAY
PL, PL	PLATE
P/L	PROPERTY LINE
PM	POST MILE, TIME FROM NOON TO MIDNIGHT
PN	PAVING NOTCH
POC	POINT OF HORIZONTAL CURVE
POT	POINT OF TANGENT
POVC	POINT OF VERTICAL CURVE
PP	PIPE PILE, PLASTIC PIPE, POWER POLE
PPL	PERFORMED PERMEABLE LINER
PPP	PERFORATED PLASTIC PIPE
PRC	POINT OF REVERSE CURVE
PRF	PAVEMENT REINFORCING FABRIC
PRVC	POINT OF REVERSE VERTICAL CURVE
PS&E	PLANS, SPECIFICATIONS AND ESTIMATES
PS, P/S	PRESTRESSED
PSP	PERFORATED STEEL PIPE
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
Pvmt	PAVEMENT

**Q**

**R**

Qty	QUANTITY
-----	----------

**R**

R	RADIUS
R & D	REMOVE AND DISPOSE
R & S	REMOVE AND SALVAGE
R/C	RATE OF CHANGE
RCA	REINFORCED CONCRETE ARCH
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
RCPA	REINFORCED CONCRETE PIPE ARCH
Rd	ROAD
Reinf	REINFORCED, REINFORCEMENT, REINFORCING
Rel	RELOCATE
Repl	REPLACEMENT
Ret	RETAINING
Rev	REVISED, REVISION
Rdwy	ROADWAY
RHMA	RUBBERIZED HOT MIX ASPHALT
Riv	RIVER
RM	ROAD-MIXED
RP	RADIUS POINT, REFERENCE POINT
RR	RAILROAD
RSP	ROCK SLOPE PROTECTION, REVISED STANDARD PLAN
Rt	RIGHT
Rte	ROUTE
RW	REDWOOD, RETAINING WALL
R/W	RIGHT OF WAY
Rwy	RAILWAY

**S**

S	SOUTH, SUPPLEMENT
SAE	STRUCTURE APPROACH EMBANKMENT
Salv	SALVAGE
SAPP	STRUCTURAL ALUMINUM PLATE PIPE
SB	SOUTHBOUND
SC	SAND CUSHION
SCSP	SLOTTED CORRUGATED STEEL PIPE
SD	STORM DRAIN
Sec	SECOND, SECTION
Sep	SEPARATION
SG	SUBGRADE
Shld	SHOULDER
Sht	SHEET
Sim	SIMILAR
SL	STATION LINE
SM	SELECTED MATERIAL
Spec	SPECIAL, SPECIFICATIONS
SPP	SLOTTED PLASTIC PIPE
SS	SLOPE STAKE
SSBM	STRAP AND SADDLE BRACKET METHOD
SSD	STRUCTURAL SECTION DRAIN
SSPA	STRUCTURAL STEEL PLATE ARCH
SSPP	STRUCTURAL STEEL PLATE PIPE
SSPPA	STRUCTURAL STEEL PLATE PIPE ARCH
SSRP	STEEL SPIRAL RIB PIPE
St	STREET
Sta	STATION
STBB	SINGLE THRIE BEAM BARRIER
Std	STANDARD
Str	STRUCTURE
Surf	SURFACING
SW	SIDEWALK, SOUND WALL
Swr	SEWER
Sym	SYMMETRICAL
S4S	SURFACE 4 SIDES

**T**

T	SEMI-TANGENT
Tan	TANGENT
TBB	THRIE BEAM BARRIER
Tbr	TIMBER
TC	TOP OF CURB
TCB	TRAFFIC CONTROL BOX
TCE	TEMPORARY CONSTRUCTION EASEMENT
TeI	TELEPHONE
Temp	TEMPORARY
TG	TOP OF GRADE
Tot	TOTAL
TP	TELEPHONE POLE
TPB	TREATED PERMEABLE BASE
TPM	TREATED PERMEABLE MATERIAL
Trans	TRANSITION

**T continued**

TS	TRANSVERSE, TRAFFIC SIGNAL, TUBULAR STEEL
Typ	TYPICAL

**U**

UC	UNDERCROSSING
UD	UNDERDRAIN
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
UP	UNDERPASS

**V**

V	VALVE, DESIGN SPEED
Var	VARIABLE, VARIES
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
Vert	VERTICAL
Via	VIADUCT
Vol	VOLUME

**W**

W	WEST, WIDTH
WB	WESTBOUND
WH	WEEP HOLE
WM	WIRE MESH
WS	WATER SURFACE
WSP	WELDED STEEL PIPE
Wt	WEIGHT
WV	WATER VALVE
WW	WINGWALL
WWL	WINGWALL LAYOUT LINE

**X**

X Sec	CROSS SECTION
Xing	CROSSING

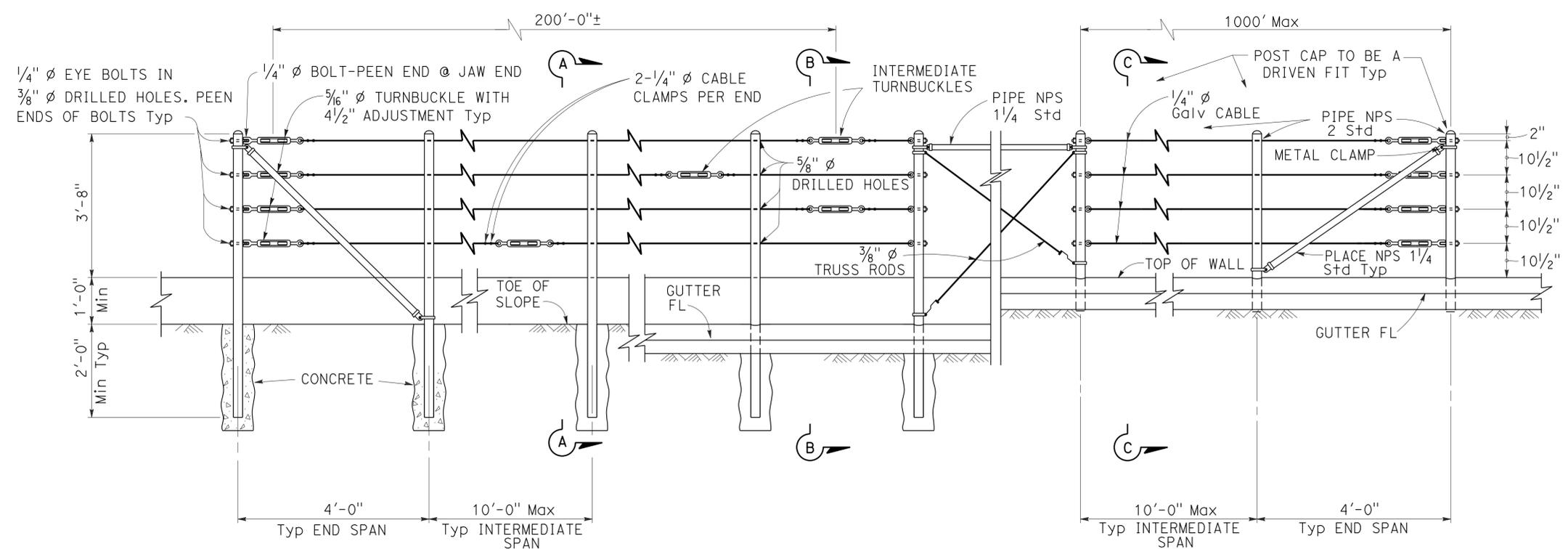
**Y**

Yr	YEAR
Yrs	YEARS

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		5	106

REGISTERED CIVIL ENGINEER		
October 21, 2011		
PLANS APPROVAL DATE		
<small>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.</small>		

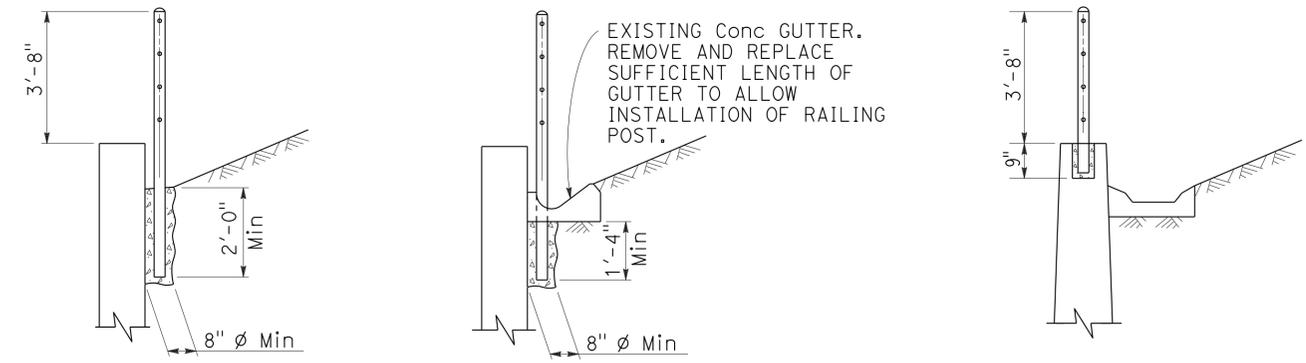


**EXISTING WALL (WITHOUT GUTTER)** Existing  
**RETAINING WALL (WITH GUTTER)** Existing  
**RETAINING WALL (WITH GUTTER)** New construction

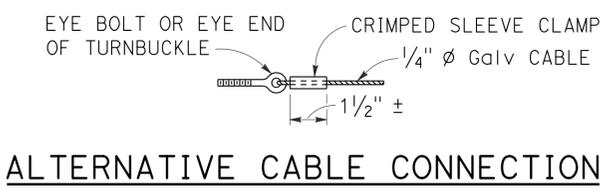
**ELEVATION**

**NOTES:**

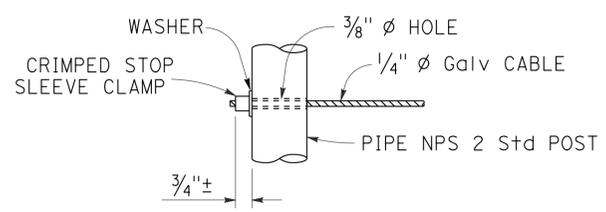
1. Maximum distance between turnbuckles shall be 200'-0"±.
2. Intermediate turnbuckles to be placed in adjacent spans.
3. Cable shall not be spliced between intermediate turnbuckles and end posts.
4. Posts to be vertical.
5. Alignment of holes in posts may vary to conform to slope of top of retaining wall.
6. The Contractor shall verify all dependent dimensions in the field before ordering or fabricating any material.
7. Line posts shall be braced horizontally and trussed diagonally in both directions at intervals not to exceed 1000'.
8. Post pockets to be centered in top of wall.
9. Typical end spans, braced in both directions, shall be constructed at changes in line where the angle of deflection is 15° or more.
10. Provide thimbles at all cable loops.



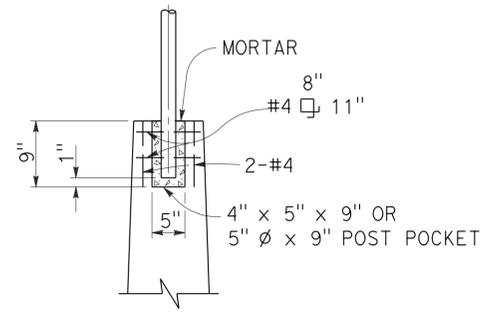
**SECTION A-A** Existing  
**SECTION B-B** Existing  
**SECTION C-C** New construction



**ALTERNATIVE CABLE CONNECTION**



**ALTERNATIVE DEAD END ANCHORAGE**



**POST POCKET**

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**CABLE RAILING**

NO SCALE

RSP B11-47 DATED OCTOBER 21, 2011 SUPERSEDES STANDARD PLAN B11-47 DATED MAY 20, 2011 - PAGE 293 OF THE STANDARD PLANS BOOK DATED 2010.

**REVISED STANDARD PLAN RSP B11-47**

2010 REVISED STANDARD PLAN RSP B11-47

**LEGEND:**

<b>AB</b>	ABANDON. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS
<b>BC</b>	INSTALL PULL BOX IN EXISTING CONDUIT RUN
<b>BP</b>	PEDESTRIAN BARRICADE, TYPE AS INDICATED ON PLAN
<b>CB</b>	INSTALL CONDUIT INTO EXISTING PULL BOX
<b>CC</b>	CONNECT NEW AND EXISTING CONDUIT. REMOVE EXISTING CONDUCTORS AND INSTALL CONDUCTORS AS INDICATED
<b>CF</b>	CONDUIT TO REMAIN FOR FUTURE USE. REMOVE CONDUCTORS. INSTALL PULL TAPE
<b>DH</b>	DETECTOR HANDHOLE
<b>FA</b>	FOUNDATION TO BE ABANDONED
<b>IS</b>	INSTALL SIGN ON SIGNAL MAST ARM
<b>NS</b>	NO SLIP BASE ON STANDARD
<b>PEC</b>	PHOTOELECTRIC CONTROL
<b>PEU</b>	PHOTOELECTRIC UNIT
<b>RC</b>	EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR
<b>RE</b>	REMOVE ELECTROLIER, FUSES AND BALLAST. TAPE ENDS OF CONDUCTORS
<b>RL</b>	RELOCATE EQUIPMENT
<b>RR</b>	REMOVE AND REUSE EQUIPMENT
<b>RS</b>	REMOVE AND SALVAGE EQUIPMENT
<b>SC</b>	SPLICE NEW TO EXISTING CONDUCTORS
<b>SD</b>	SERVICE DISCONNECT
<b>TSP</b>	TELEPHONE SERVICE POINT

**ABBREVIATIONS**

APS	ACCESSIBLE PEDESTRIAN SIGNAL	M/M	MULTIPLE TO MULTIPLE TRANSFORMER
BBS	BATTERY BACKUP SYSTEM	Mtg	MOUNTING
BC	BOLT CIRCLE	MV	MERCURY VAPOR LIGHTING FIXTURE
BPB	BICYCLE PUSH BUTTON	MVDS	MICROWAVE VEHICLE DETECTION SYSTEM
C	CONDUIT	N	NEUTRAL (GROUNDED CONDUCTOR)
CB	CIRCUIT BREAKER	NB	NEUTRAL BUS
CCTV	CLOSED CIRCUIT TELEVISION	NC	NORMALLY CLOSE
Ckt	CIRCUIT	NO	NORMALLY OPEN
CMS	CHANGEABLE MESSAGE SIGN	P	CIRCUIT BREAKER'S POLE
C+id	CALTRANS IDENTIFICATION	PB	PULL BOX
Comm	COMMUNICATION	PBA	PUSH BUTTON ASSEMBLY
DLC	LOOP DETECTOR LEAD-IN CABLE	PEC	PHOTOELECTRIC CONTROL
EMS	EXTINGUISHABLE MESSAGE SIGN	Ped	PEDESTRIAN
EVUC	EMERGENCY VEHICLE UNIT CABLE	PEU	PHOTOELECTRIC UNIT
EVUD	EMERGENCY VEHICLE UNIT DETECTOR	PT	CONDUIT WITH PULL TAPE
FB	FLASHING BEACON	RE	RELOCATED EQUIPMENT
FBCA	FLASHING BEACON CONTROL ASSEMBLY	RM	RAMP METERING
FBS	FLASHING BEACON WITH SLIP BASE	RWIS	ROADSIDE WEATHER INFORMATION SYSTEM
FO	FIBER OPTIC	SB	SLIP BASE
G	EQUIPMENT GROUNDING CONDUCTOR	SIC	SIGNAL INTERCONNECT CABLE
GB	GROUND BUS	Sig	SIGNAL
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	SMA	SIGNAL MAST ARM
HAR	HIGHWAY ADVISORY RADIO	SNS	STREET NAME SIGN
Hex	HEXAGONAL	SP	SERVICE POINT
HPS	HIGH PRESSURE SODIUM	TDC	TELEPHONE DEMARCATION CABINET
IISNS	INTERNALLY ILLUMINATED STREET NAME SIGN	TMS	TRAFFIC MONITORING STATION
ISL	INDUCTION SIGN LIGHTING	TOS	TRAFFIC OPERATIONS SYSTEM
LED	LIGHT EMITTING DIODE	Veh	VEHICLE
LMA	LUMINAIRE MAST ARM	VIVDS	VIDEO IMAGE VEHICLE DETECTION SYSTEM
LPS	LOW PRESSURE SODIUM	WIM	WEIGH-IN-MOTION
Ltg	LIGHTING	Xfmr	TRANSFORMER
Lum	LUMINAIRE		
M	METERED		
MAT	MAST ARM MOUNTING TOP ATTACHMENT		
MAS	MAST ARM MOUNTING SIDE ATTACHMENT		

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		6	106

*Theresa Gabriel*  
REGISTERED ELECTRICAL ENGINEER

July 19, 2013  
PLANS APPROVAL DATE

Theresa Aziz Gabriel  
No. E15129  
Exp. 6-30-14  
ELECTRICAL  
STATE OF CALIFORNIA

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TO ACCOMPANY PLANS DATED 3-24-14

**SOFFIT AND WALL MOUNTED LUMINAIRES**

- PENDANT, 70 W HPS UNLESS OTHERWISE SPECIFIED
- FLUSH, 70 W HPS UNLESS OTHERWISE SPECIFIED
- WALL SURFACE, 70 W HPS UNLESS OTHERWISE SPECIFIED
- EXISTING SOFFIT OR WALL LUMINAIRE TO REMAIN UNMODIFIED
- EXISTING SOFFIT OR WALL LUMINAIRE TO BE MODIFIED AS SPECIFIED

**NOTE:**  
Arrow indicates "street side" of luminaire.

COMMONLY USED SYMBOLS FOR UNITED STATES CUSTOMARY UNITS OF MEASUREMENT:

SYMBOL USED	DEFINITIONS
$\Omega$	OHMS
min	MINUTE
s	SECOND
bps	BITS PER SECOND
Bps	BYTES PER SECOND
A	AMPERE
V	VOLT
V(dc)	VOLT (DIRECT CURRENT)
V(ac)	VOLT (ALTERNATING CURRENT)
FC	FOOT - CANDLE
W	WATTS
VA	VOLT-AMPERE
M	MEGA
k	KILO
m	MILLI
$\mu$	MICRO
P	PICO
Hz	HERTZ

**MISCELLANEOUS ELECTROLIERS**

NEW	EXISTING	
		LUMINAIRE ON WOOD POLE
		NON-STANDARD ELECTROLIER (SEE PROJECT NOTES OR PROJECT PLANS)
		CITY ELECTROLIER
		ELECTROLIER FOUNDATION (FUTURE INSTALLATION)

- NOTES:**
- HPS luminaires shall be 310 W HPS when installed on Type 21, 21D, 30, 31 and 32 Standards, unless otherwise specified. HPS luminaires shall be 200 W when installed on other type standards or poles, unless otherwise specified.
  - LED luminaires shall be 235 W when installed on Type 21, 21D, 30, 31 and 32 Standards, unless otherwise specified. LED luminaires shall be 165 W when installed on other type standards or poles, unless otherwise specified.
  - Luminaires shall be the cutoff type, ANSI Type III medium cutoff lighting distribution, unless otherwise specified.

**STANDARD ELECTROLIER**

NEW	EXISTING	STANDARD TYPE
		15
		15D
		15 STRUCTURE
		15D STRUCTURE
		21
		21D
		21 STRUCTURE
		21D STRUCTURE
		30
		31
		32

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**ELECTRICAL SYSTEMS (LEGEND AND ABBREVIATIONS)**

NO SCALE

RSP ES-1A DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN ES-1A DATED MAY 20, 2011 - PAGE 425 OF THE STANDARD PLANS BOOK DATED 2010.

**REVISED STANDARD PLAN RSP ES-1A**

2010 REVISED STANDARD PLAN RSP ES-1A

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		7	106

*Theresa Gabriel*  
 REGISTERED ELECTRICAL ENGINEER  
 July 19, 2013  
 PLANS APPROVAL DATE  
 No. E15129  
 Exp. 6-30-14  
 ELECTRICAL  
 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.

TO ACCOMPANY PLANS DATED 3-24-14

**CONDUIT**

NEW	EXISTING	
---	---	LIGHTING CONDUIT, UNLESS OTHERWISE INDICATED OR NOTED
---	---	TRAFFIC SIGNAL CONDUIT
---C---	---c---	COMMUNICATION CONDUIT
---T---	---t---	TELEPHONE CONDUIT
---F---	---f---	FIRE ALARM CONDUIT
---FO---	---fo---	FIBER OPTIC CONDUIT
---	---	CONDUIT TERMINATION
		CONDUIT RISER ATTACHED TO THE STRUCTURE OR SERVICE POLE

**SIGNAL EQUIPMENT**

NEW	EXISTING	
		PEDESTRIAN SIGNAL HEAD "C" INDICATES COUNTDOWN PEDESTRIAN HEAD
		PUSH BUTTON ASSEMBLY POST
		PEDESTRIAN BARRICADE
		VEHICLE SIGNAL HEAD (WITH BACKPLATE AND 3-SECTIONS: RED, YELLOW AND GREEN)
		VEHICLE SIGNAL HEAD WITH ANGLE VISOR
		MODIFICATIONS OF BASIC SYMBOL: "L" INDICATES ALL NON-ARROW SECTIONS LOUVERED "LG" INDICATES LOUVERED GREEN SECTION ONLY "PV" INDICATES ALL 12" SECTIONS PROGRAMMED VISIBILITY "8" INDICATES ALL 8" SECTIONS (ONLY WHEN SPECIFIED)
		VEHICLE SIGNAL HEAD CONSISTING OF RED, YELLOW AND GREEN LEFT ARROW SECTIONS
		VEHICLE SIGNAL HEAD CONSISTING OF RED AND YELLOW SECTIONS WITH AN UP GREEN ARROW SECTION
		VEHICLE SIGNAL HEAD (5 SECTION) CONSISTING OF RED, YELLOW AND GREEN SECTIONS WITH YELLOW AND GREEN RIGHT ARROW SECTIONS
		TYPE 15TS STANDARD WITH VEHICLE SIGNAL HEAD AND LUMINAIRE
		TYPE 21TS STANDARD WITH VEHICLE SIGNAL HEAD AND LUMINAIRE
		STANDARD WITH LUMINAIRE AND SIGNAL MAST ARMS AND ATTACHED VEHICLE SIGNAL HEADS
		TYPE 1 STANDARD WITH ATTACHED VEHICLE SIGNAL HEADS
		STANDARD WITH A SIGNAL MAST ARM, ATTACHED VEHICLE SIGNAL HEADS AND INTERNALLY ILLUMINATED STREET NAME SIGN
		CONTROLLER ASSEMBLY. DOOR INDICATES FRONT OF CABINET

**SERVICE EQUIPMENT**

NEW	EXISTING	
---OH---	---oh---	OVERHEAD LINES
		WOOD POLE, "U" INDICATES UTILITY OWNED
		POLE GUY WITH ANCHOR
		UTILITY TRANSFORMER - GROUND MOUNTED
		SERVICE EQUIPMENT ENCLOSURE TYPE. DOOR INDICATES FRONT OF ENCLOSURE
		TELEPHONE DEMARCATION CABINET

**POLE-MOUNTED SERVICE DESIGNATION**

	TYPE H SERVICE, 28'-10"	TYPE OF INSTALLATION AND POLE HEIGHT ABOVE GRADE
--	-------------------------	--

**FLASHING BEACON**

NEW	EXISTING	
		FLASHING BEACON (ONE VEHICLE SIGNAL HEAD WITH BACKPLATE AND VISOR) "R" INDICATES RED INDICATION, "Y" INDICATES YELLOW INDICATION
		FLASHING BEACON WITH TYPE 15-FBS STANDARD AND A SIGN.
		FLASHING BEACON WITH TYPES 9, 9A OR 9B SIGN UNLESS OTHERWISE SPECIFIED OR INDICATED

**SIGNAL EQUIPMENT Cont**

NEW	EXISTING	
		GUARD POST
		TYPE 1 STANDARD WITH RAMP METERING SIGN
		OPTICAL DETECTOR FOR THE EMERGENCY VEHICLE DETECTION SYSTEM

**NOTES:**

- All signal sections shall be 12" unless shown otherwise.
- Signal heads shall be provided with backplates unless shown otherwise.

**ILLUMINATED OVERHEAD SIGN**

NEW	EXISTING	
		SINGLE POST, SINGLE ILLUMINATED SIGN, BALANCED BUTTERFLY
		SINGLE POST, DOUBLE ILLUMINATED SIGN, BALANCED BUTTERFLY
		SINGLE POST, SINGLE ILLUMINATED SIGN, FULL CANTILEVER
		DOUBLE POST, SINGLE ILLUMINATED SIGN
		SINGLE ILLUMINATED SIGN MOUNTED ON STRUCTURE
		DOUBLE POST, SINGLE ILLUMINATED SIGN WITH ELECTROLIER

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**ELECTRICAL SYSTEMS  
(LEGEND AND ABBREVIATIONS)**

NO SCALE

RSP ES-1B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN ES-1B DATED MAY 20, 2011 - PAGE 426 OF THE STANDARD PLANS BOOK DATED 2010.

**REVISED STANDARD PLAN RSP ES-1B**

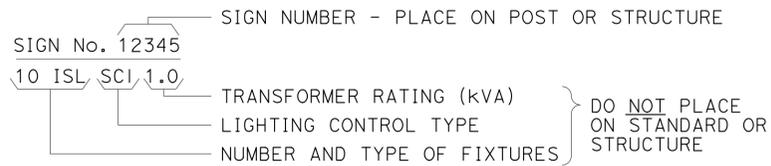
2010 REVISED STANDARD PLAN RSP ES-1B



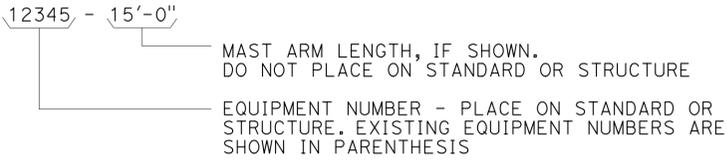
TO ACCOMPANY PLANS DATED 3-24-14

### EQUIPMENT IDENTIFICATION

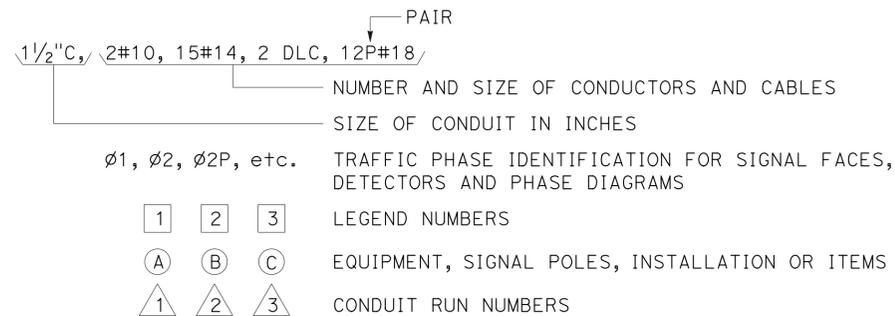
#### ILLUMINATED SIGN IDENTIFICATION NUMBER:



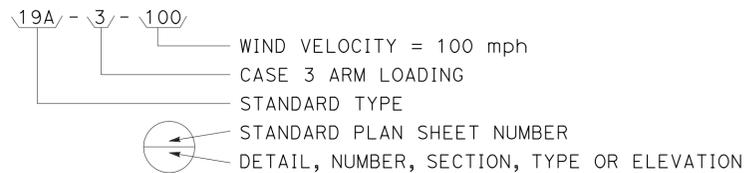
#### ELECTROLIER OR EQUIPMENT IDENTIFICATION NUMBER:



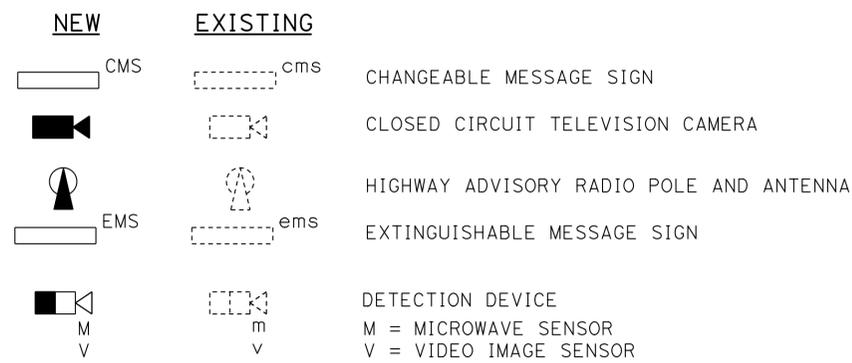
#### CONDUIT AND CONDUCTOR IDENTIFICATION:



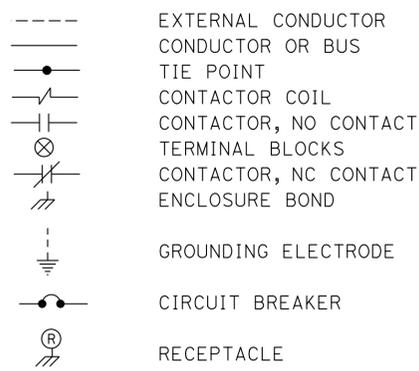
#### SIGNAL AND LIGHTING STANDARD (TYPICAL DESIGNATION):



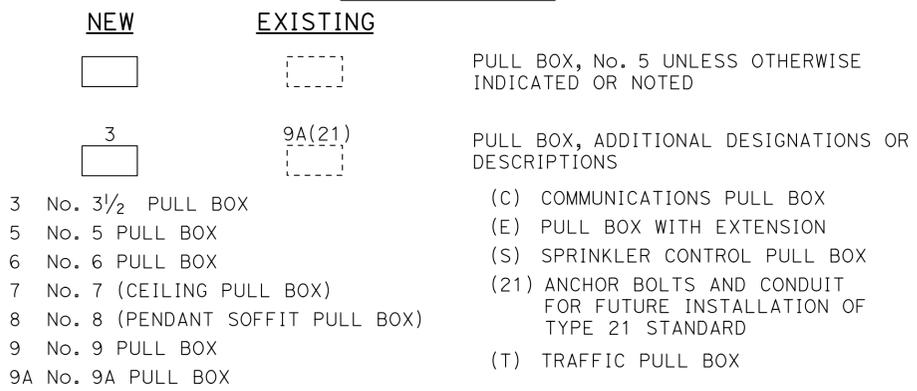
### MISCELLANEOUS EQUIPMENT



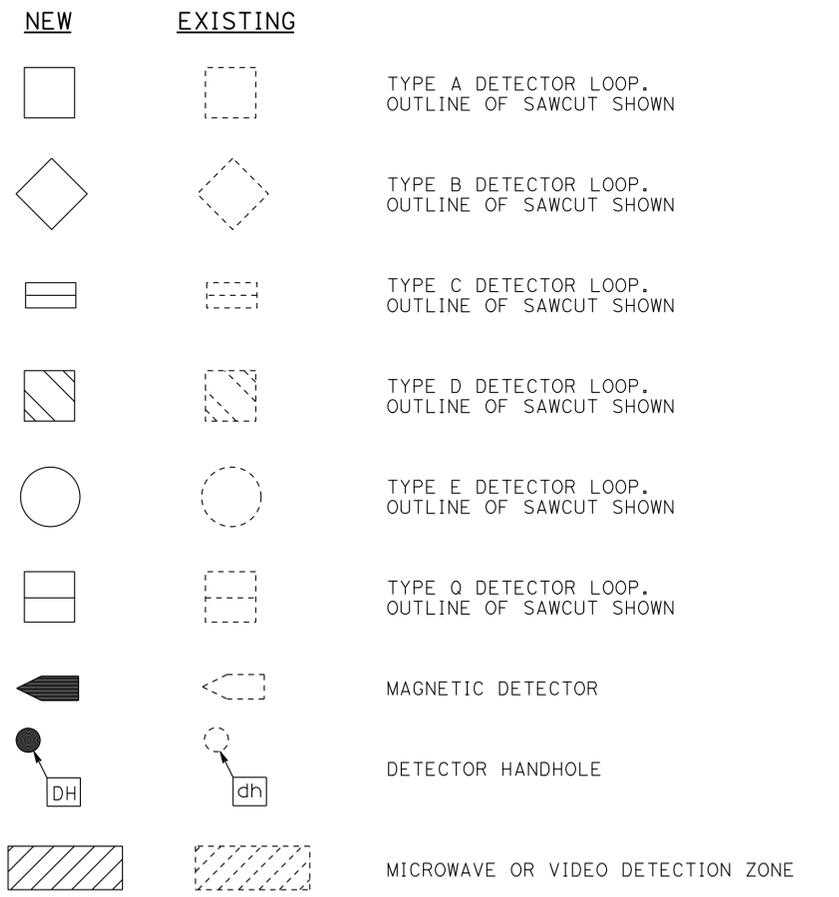
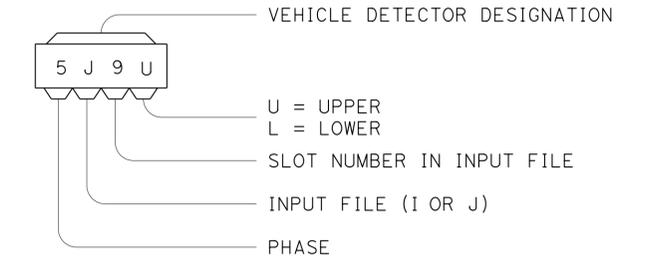
### WIRING DIAGRAM LEGEND



### PULL BOXES



### VEHICLE DETECTORS



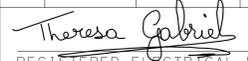
STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

## ELECTRICAL SYSTEMS (LEGEND AND ABBREVIATIONS)

NO SCALE

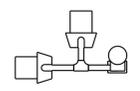
RSP ES-1C DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN ES-1C DATED MAY 20, 2011 - PAGE 427 OF THE STANDARD PLANS BOOK DATED 2010.

2010 REVISED STANDARD PLAN RSP ES-1C

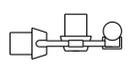
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		9	106
 REGISTERED ELECTRICAL ENGINEER					
July 19, 2013 PLANS APPROVAL DATE					
					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

TO ACCOMPANY PLANS DATED 3-24-14

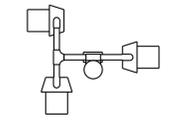
2010 REVISED STANDARD PLAN RSP ES-4A



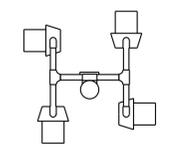
SV-2-TD



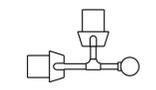
SV-2-TC



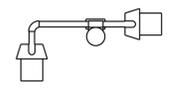
SV-3-TC



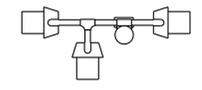
SV-4-TC



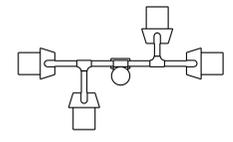
SV-2B



SV-2-TB

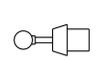


SV-3-TB

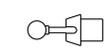


SV-4-TB

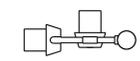
PLAN VIEW OF OTHER  
SIDE MOUNTINGS



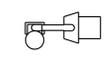
SV



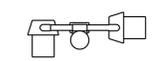
SV-1



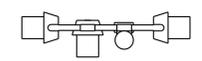
SV-2A



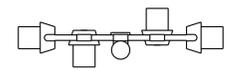
SV-1-T



SV-2-TA



SV-3-TA



SV-4-TA

SIDE MOUNTINGS

ABBREVIATIONS:

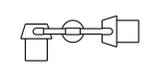
- SV SIDE MOUNTED VEHICLE SIGNALS
- T TERMINAL COMPARTMENT
- TV TOP MOUNTED VEHICLE SIGNALS
- 1, 2, 3, 4 NUMBER OF SIGNAL FACES  
(3 - SECTION, UNLESS OTHERWISE INDICATED)
- A, B, C, D CONFIGURATION OF SIGNALS

NOTES:

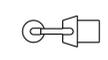
1. Mountings shall be oriented to provide maximum horizontal clearance to adjacent roadway.
2. Bracket arms shall be long enough to permit proper alignment of signals and backplate installation.
3. See Standard Plans ES-4D and ES-4E for attachment fitting details.



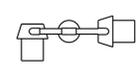
TV-1



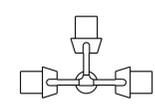
TV-2



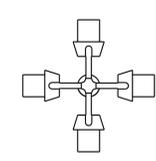
TV-1-T



TV-2-T



TV-3-T



TV-4-T

PLAN VIEW OF  
TOP MOUNTINGS

TOP MOUNTINGS

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**ELECTRICAL SYSTEMS  
(VEHICULAR SIGNAL HEADS  
AND MOUNTINGS)**

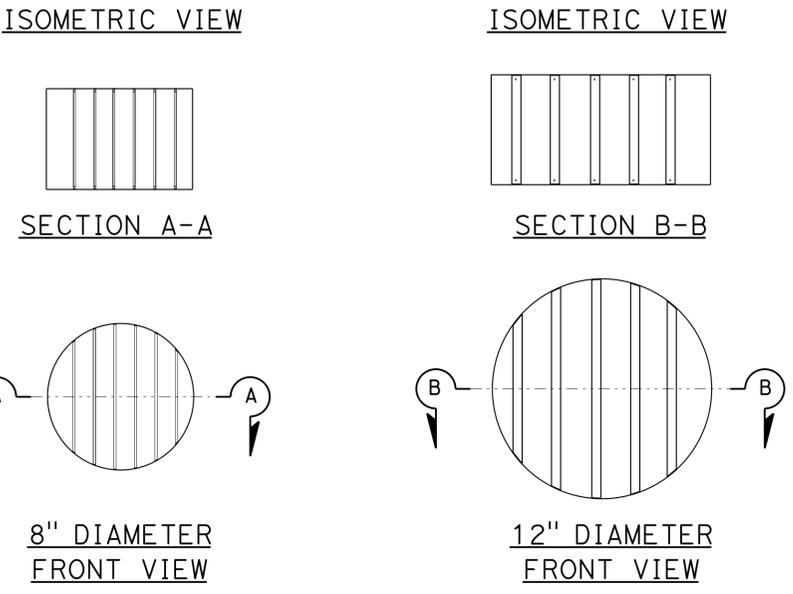
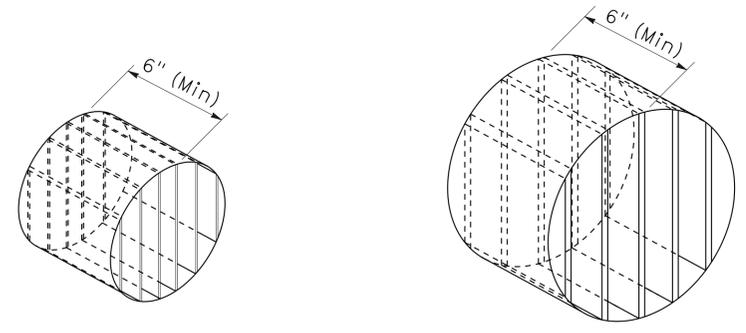
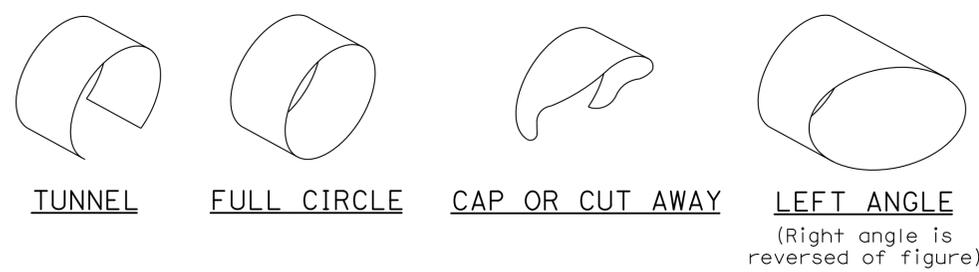
NO SCALE

RSP ES-4A DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN ES-4A  
DATED MAY 20, 2011 - PAGE 443 OF THE STANDARD PLANS BOOK DATED 2010.

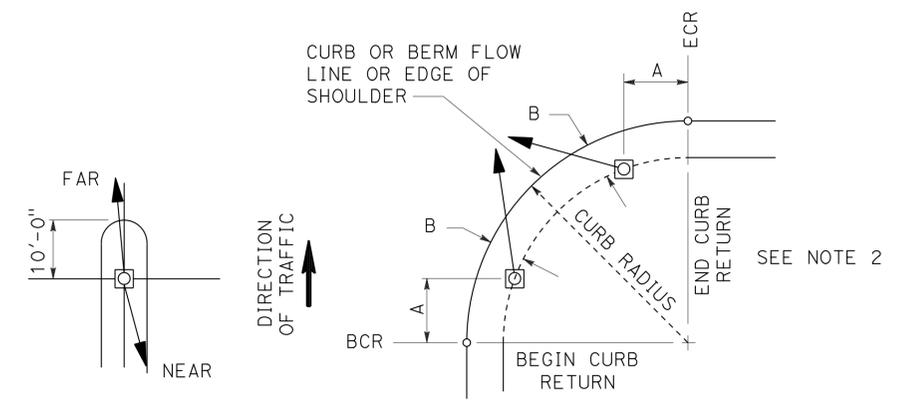
**REVISED STANDARD PLAN RSP ES-4A**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		10	106
<i>Theresa Gabriel</i> REGISTERED ELECTRICAL ENGINEER No. E15129 Exp. 6-30-14 ELECTRICAL STATE OF CALIFORNIA					
July 19, 2013 PLANS APPROVAL DATE					
<small>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.</small>					

TO ACCOMPANY PLANS DATED 3-24-14

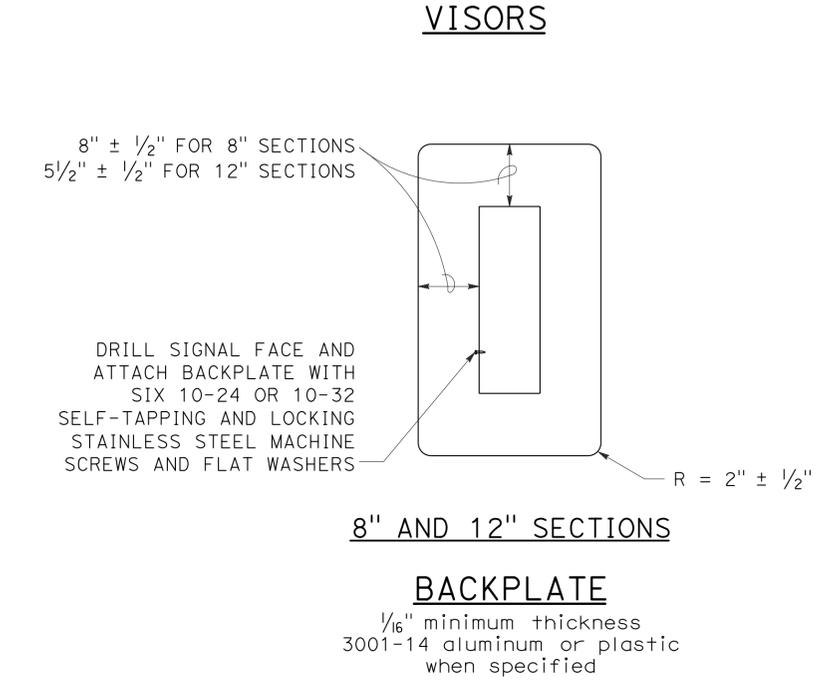


**DIRECTIONAL LOUVER**  
 Directional louvers shall be oriented as directed by the Engineer and secured in place with one plated brass machine screw and nut.

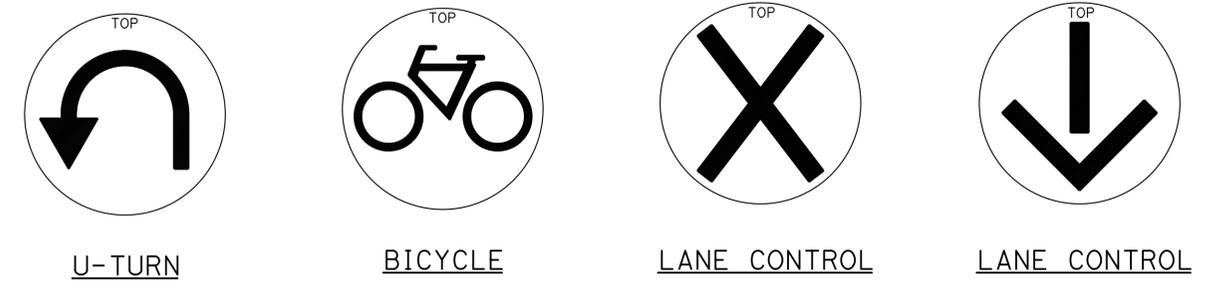


- NOTES:**
1. Typical signal pole placement unless dimensioned on plans.
  2. For A and B dimensions, see Pole Schedule, or as directed by the Engineer.

**SIGNAL STANDARD PLACEMENT DIMENSIONS AND EQUIPMENT LOCATIONS**



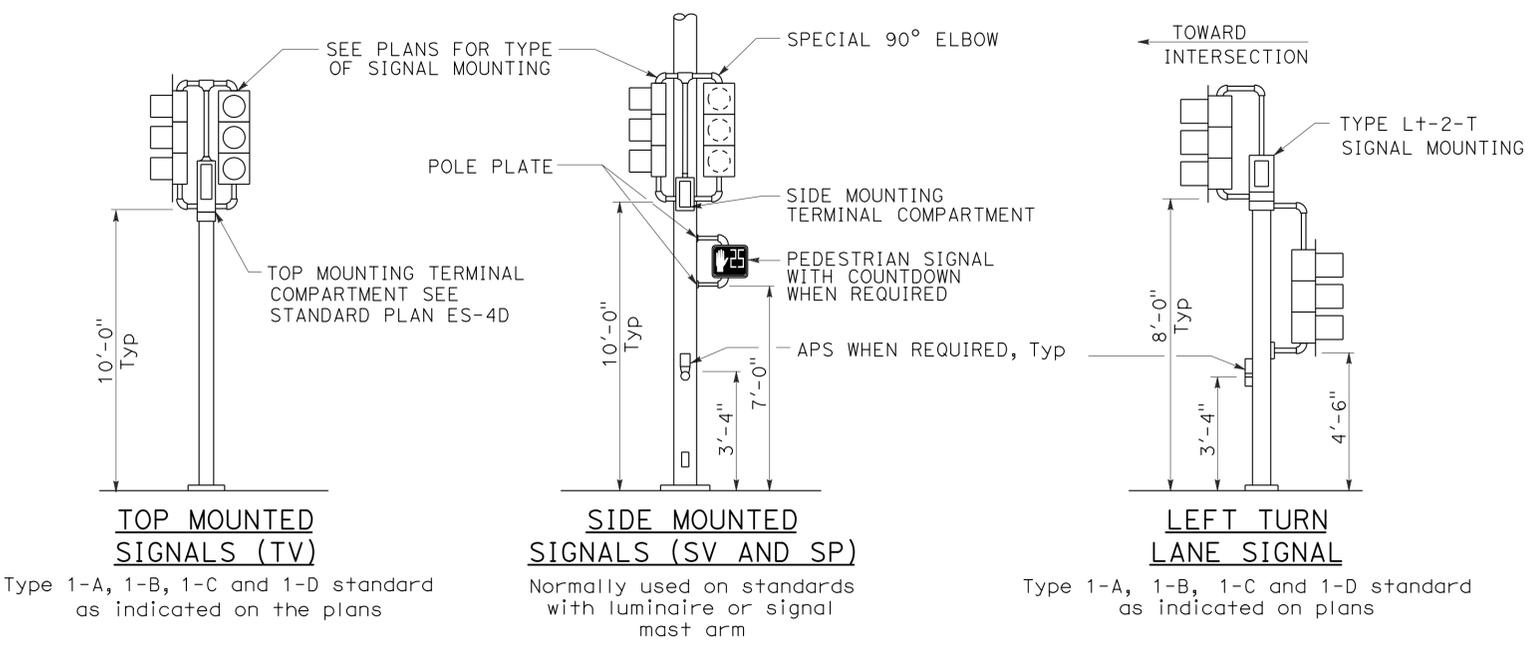
**SIGNAL FACES**



STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**ELECTRICAL SYSTEMS (VEHICULAR SIGNAL HEADS AND MOUNTINGS)**  
 NO SCALE

RSP ES-4C DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN ES-04C DATED MAY 20, 2011 - PAGE 445 OF THE STANDARD PLANS BOOK DATED 2010.

**REVISED STANDARD PLAN RSP ES-4C**



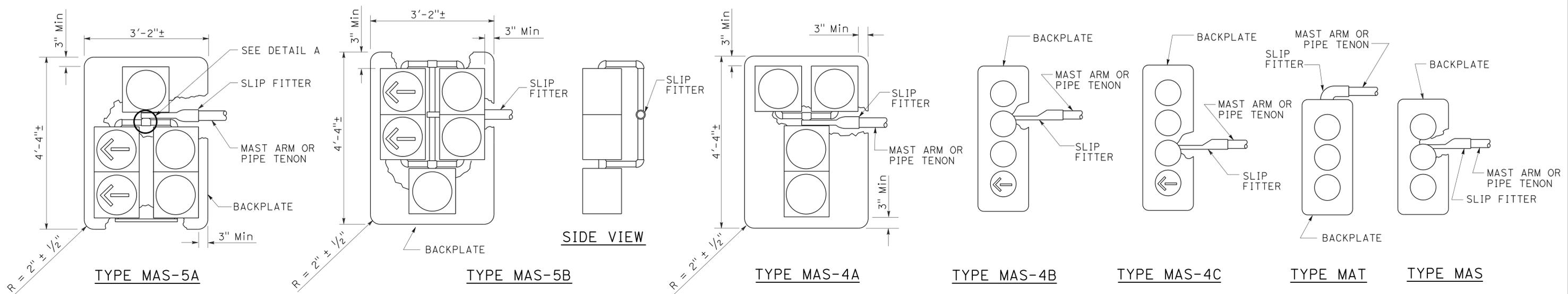
**TYPICAL SIGNAL INSTALLATIONS**

2010 REVISED STANDARD PLAN RSP ES-4C

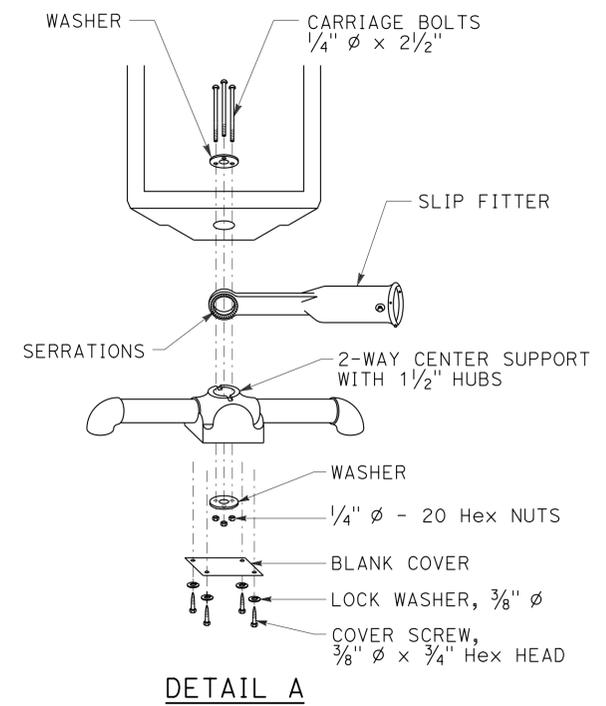
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		11	106
<i>Theresa Gabriel</i> REGISTERED ELECTRICAL ENGINEER					
July 19, 2013 PLANS APPROVAL DATE					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					



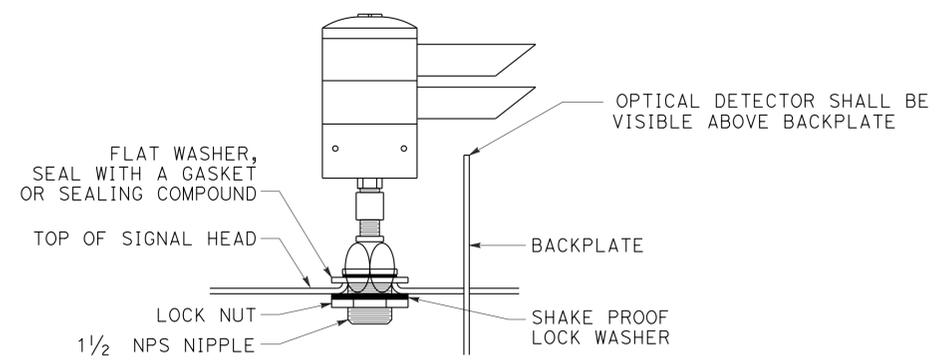
TO ACCOMPANY PLANS DATED 3-24-14



**MAST ARM MOUNTINGS**



**DETAIL A**



**DETAIL B**

**OPTICAL DETECTOR MOUNTING FOR EMERGENCY VEHICLE DETECTION SYSTEM**

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**ELECTRICAL SYSTEMS  
(VEHICULAR SIGNAL HEADS AND  
OPTICAL DETECTOR MOUNTING)**

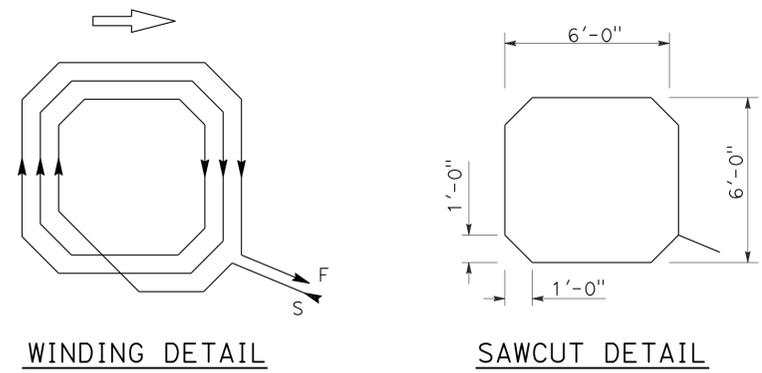
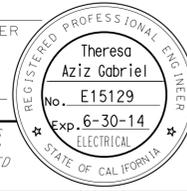
NO SCALE

RSP ES-4E DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN ES-4E  
DATED MAY 20, 2011 - 447 OF THE STANDARD PLANS BOOK DATED 2010.

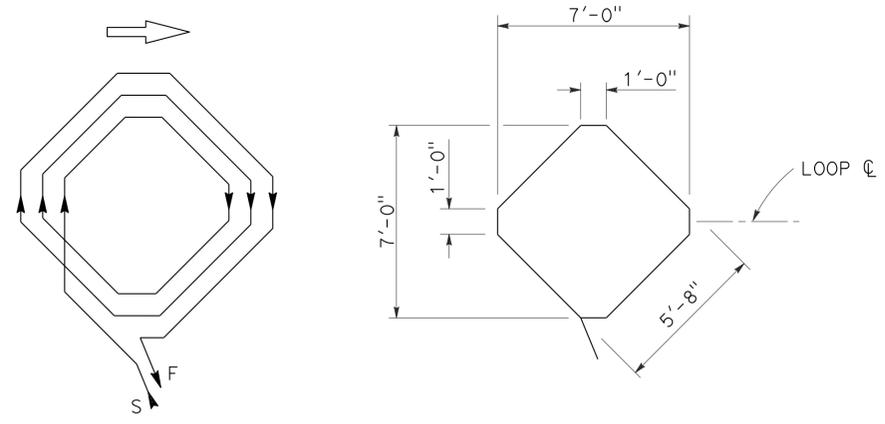
**REVISED STANDARD PLAN RSP ES-4E**

**2010 REVISED STANDARD PLAN RSP ES-4E**

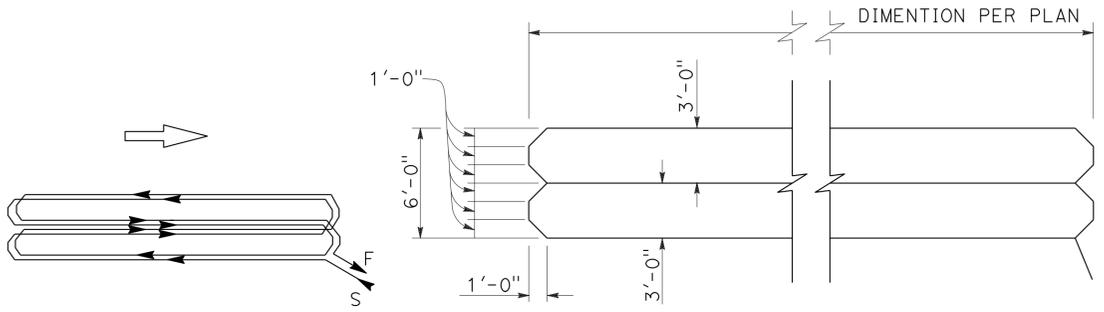
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		12	106
<i>Theresa Gabriel</i> REGISTERED ELECTRICAL ENGINEER July 19, 2013 PLANS APPROVAL DATE <small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					
TO ACCOMPANY PLANS DATED <u>3-24-14</u>					



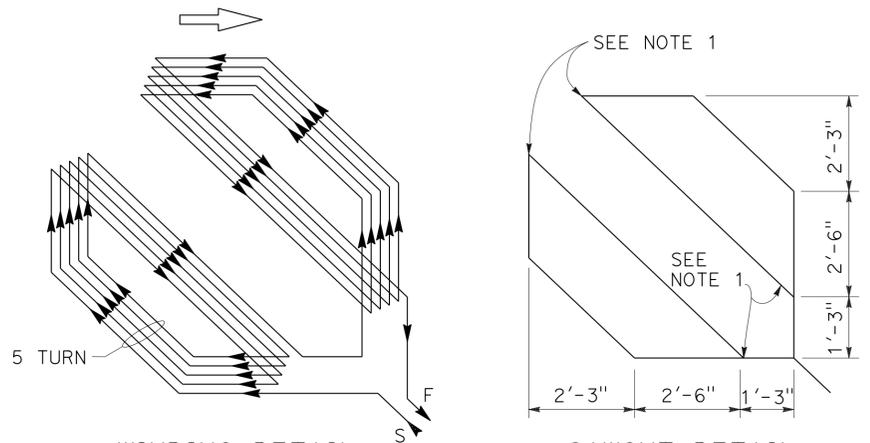
WINDING DETAIL  
SAWCUT DETAIL  
**TYPE A LOOP DETECTOR CONFIGURATION**



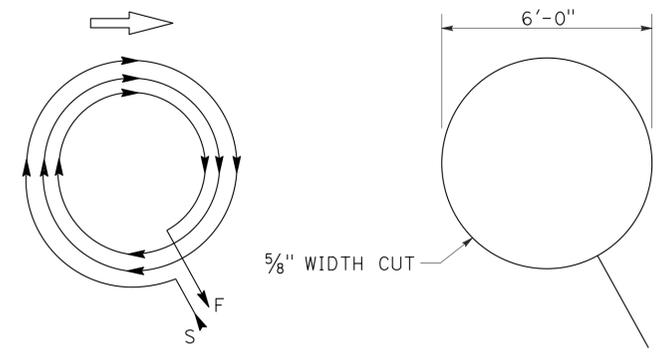
WINDING DETAIL  
SAWCUT DETAIL  
**TYPE B LOOP DETECTOR CONFIGURATION**



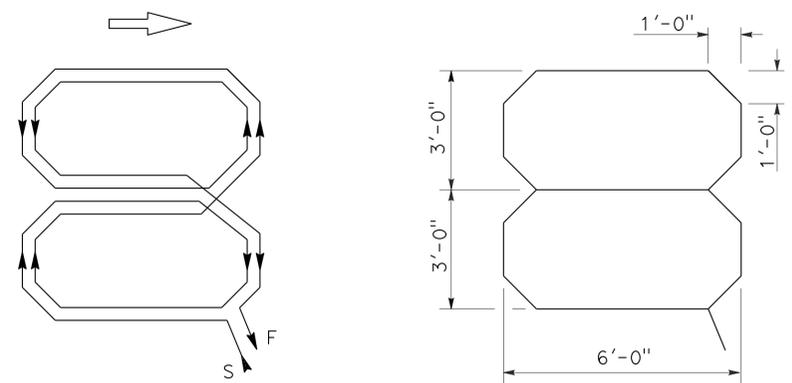
WINDING DETAIL  
SAWCUT DETAIL  
**TYPE C LOOP DETECTOR CONFIGURATION**



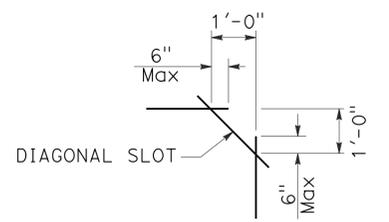
WINDING DETAIL  
SAWCUT DETAIL  
**TYPE D LOOP DETECTOR CONFIGURATION**



WINDING DETAIL  
SAWCUT DETAIL  
**TYPE E LOOP DETECTOR CONFIGURATION**



WINDING DETAIL  
SAWCUT DETAIL  
**TYPE Q LOOP DETECTOR CONFIGURATION**



**PLAN VIEW OF DIAGONAL SLOT AT CORNERS**

- NOTES:**
1. Round corners of acute angle sawcuts to prevent damage to conductors.
  2. Typical distance separating loops from edge to edge is 10' for Type A, B, D and E installation in single lane.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**ELECTRICAL SYSTEMS (DETECTORS)**  
NO SCALE

RSP ES-5B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN ES-5B DATED MAY 20, 2011 - PAGE 449 OF THE STANDARD PLANS BOOK DATED 2010.

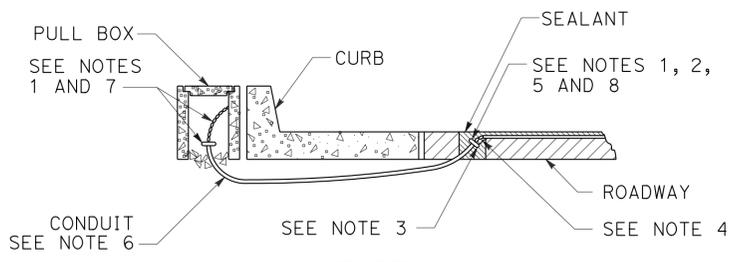
**2010 REVISED STANDARD PLAN RSP ES-5B**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		13	106

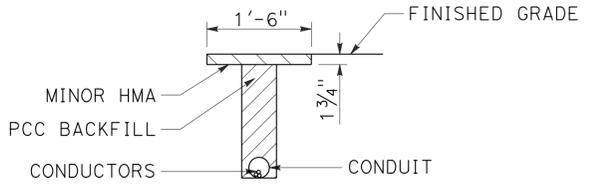
Theresa Gabriel  
 REGISTERED ELECTRICAL ENGINEER  
 July 19, 2013  
 PLANS APPROVAL DATE  
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER  
 Theresa Aziz Gabriel  
 No. E15129  
 Exp. 6-30-14  
 ELECTRICAL  
 STATE OF CALIFORNIA

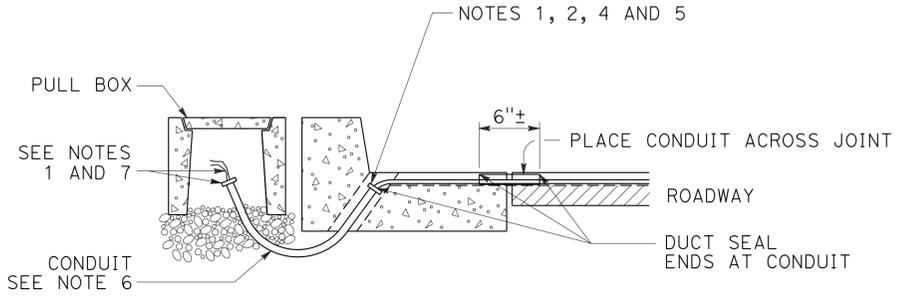
TO ACCOMPANY PLANS DATED 3-24-14



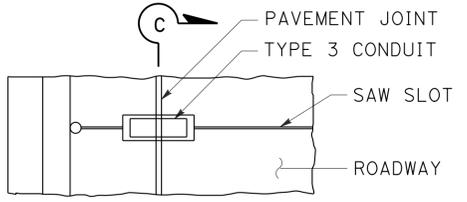
**TYPE A  
CURB TERMINATION DETAIL**



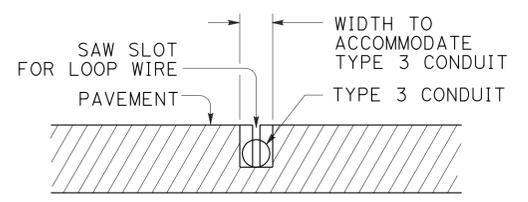
**"T" TRENCH  
DETAIL T**



**CROSS SECTION**

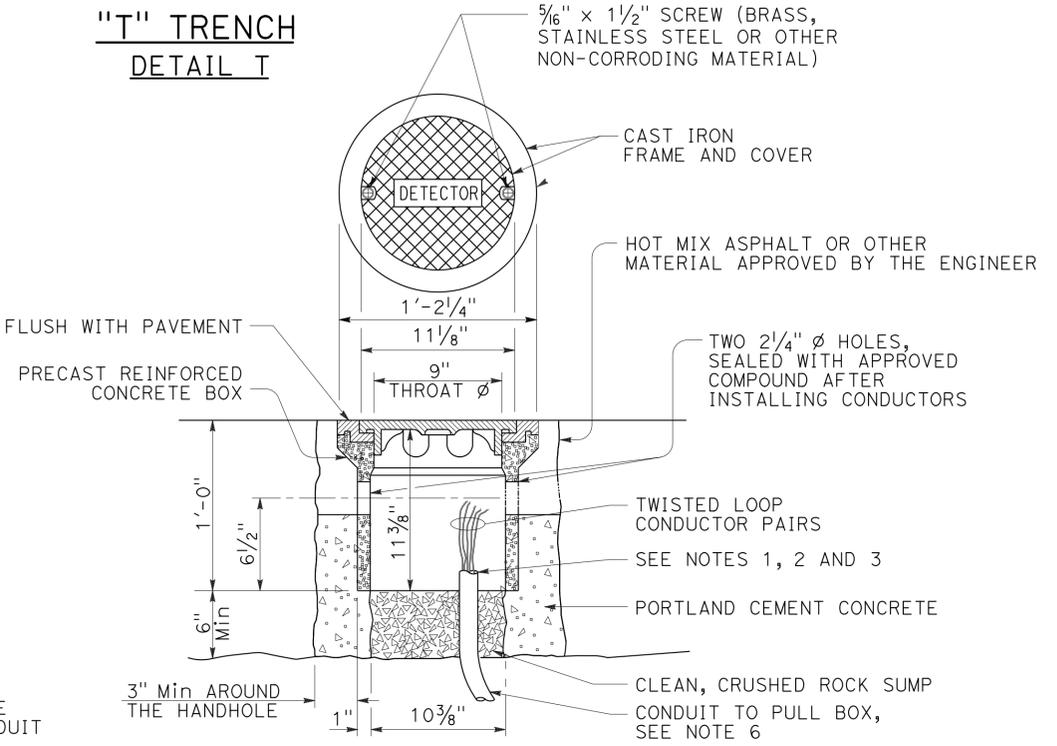


**PLAN VIEW**

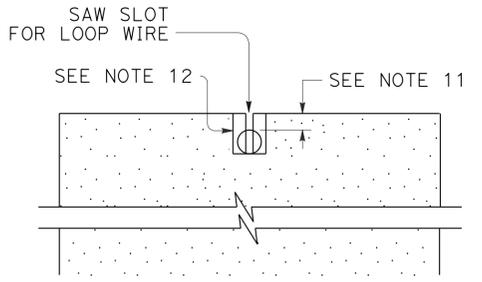


**SECTION C-C**

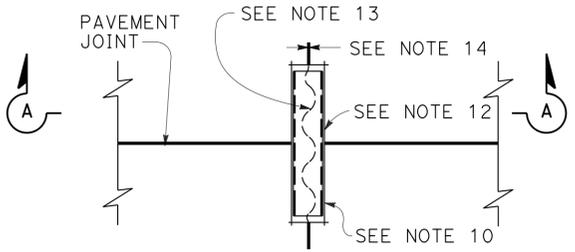
**TYPE B  
CURB TERMINATION DETAIL**



**DETECTOR HANDHOLE DETAIL**

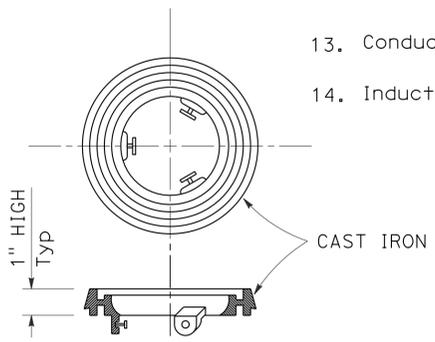


**SECTION A-A**

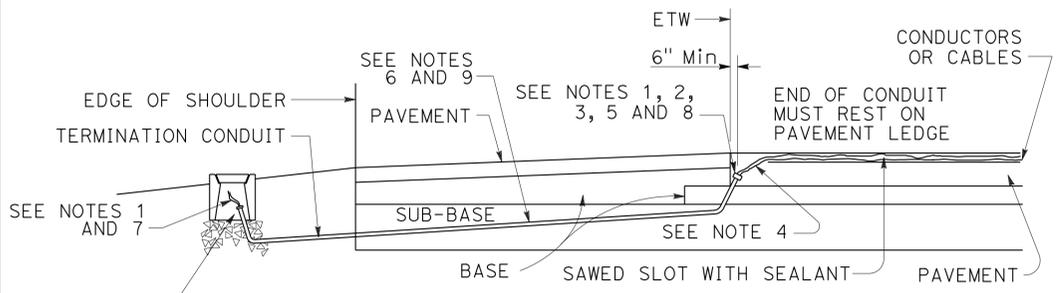


**PLAN VIEW**

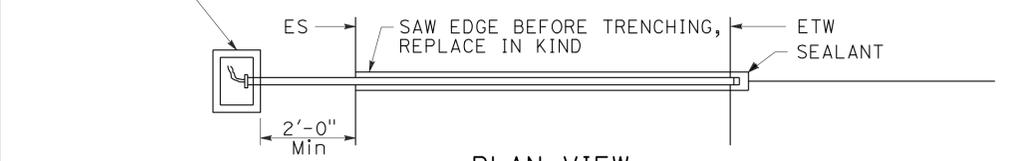
**TYPICAL LOOP LEAD-IN DETAIL  
AT PAVEMENT JOINT**



**LOCKING GRADE RING**



**CROSS SECTION**



**PLAN VIEW**

**SHOULDER TERMINATION DETAILS**

**NOTES:**

- Bushing shall be used at end of conduit.
- Tape detector conductors or cables 3" each side of bushings.
- Install duct seal compound to each end of termination conduit before installing sealant.
- Round all sharp edges where detector conductors or cables have to pass.
- End of conduit shall be 3/8" below roadway surface.
- |                     |                        |
|---------------------|------------------------|
| <u>Conduit size</u> | <u>Loop conductors</u> |
| 1"C minimum         | 1 to 2 pairs           |
| 1 1/2"C minimum     | 3 to 4 pairs           |
| 2"C minimum         | 5 or more pairs        |
- Splice detector conductors or cables to detector lead-in-cable.
- Location of detector handhole when shown on plans.
- When the shoulder and traveled way are paved with the same material and there is no joint between them, the conduit shall extend only 2'-0" into the shoulder pavement.
- 3/4"C, Type 3 conduit 6" long minimum, plug both ends with duct compound to keep out sealant.
- 1/2" Minimum between top of conduit and pavement surface.
- Sawcut shall not exceed 1" in width and 1/8" longer than conduit to be installed.
- Conductors with 1/2" minimum slack inside conduit.
- Inductive loop detector saw slot.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**ELECTRICAL SYSTEMS  
(CURB TERMINATION  
AND HANDHOLE)**  
NO SCALE

RSP ES-5D DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN ES-5D  
DATED MAY 20, 2011 - PAGE 451 OF THE STANDARD PLANS BOOK DATED 2010.

**REVISED STANDARD PLAN RSP ES-5D**

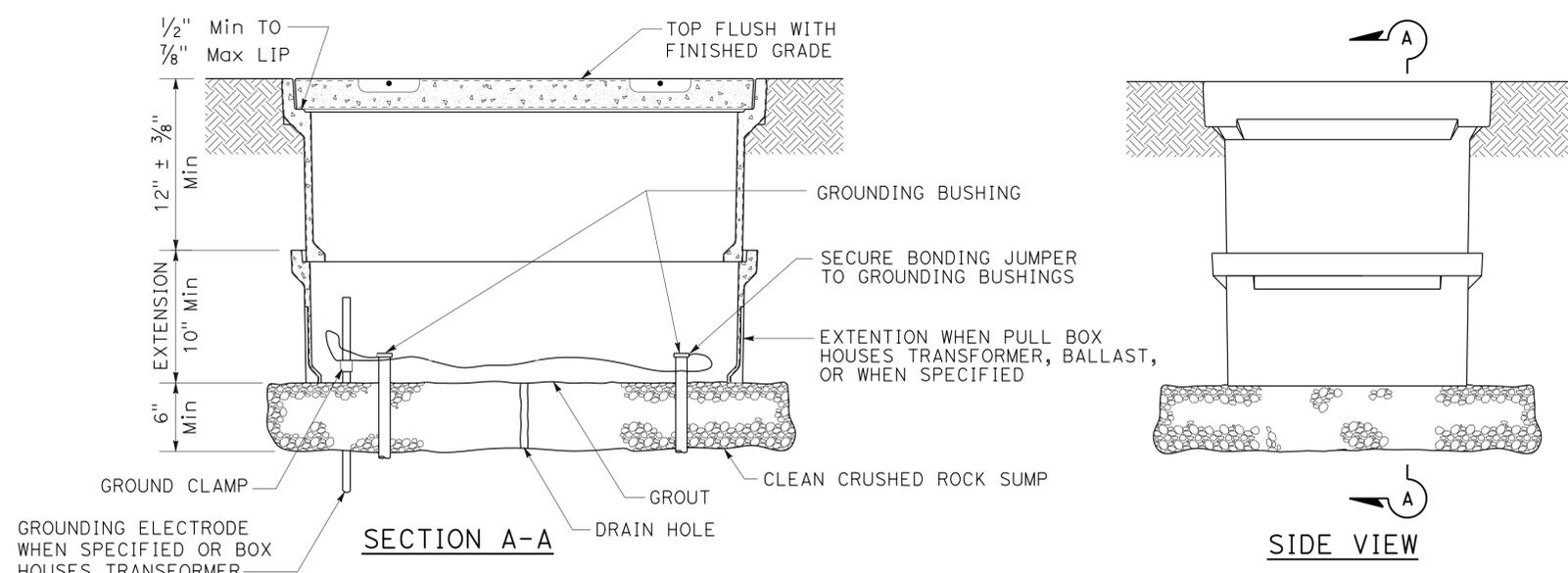
2010 REVISED STANDARD PLAN RSP ES-5D

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	5730		14	106

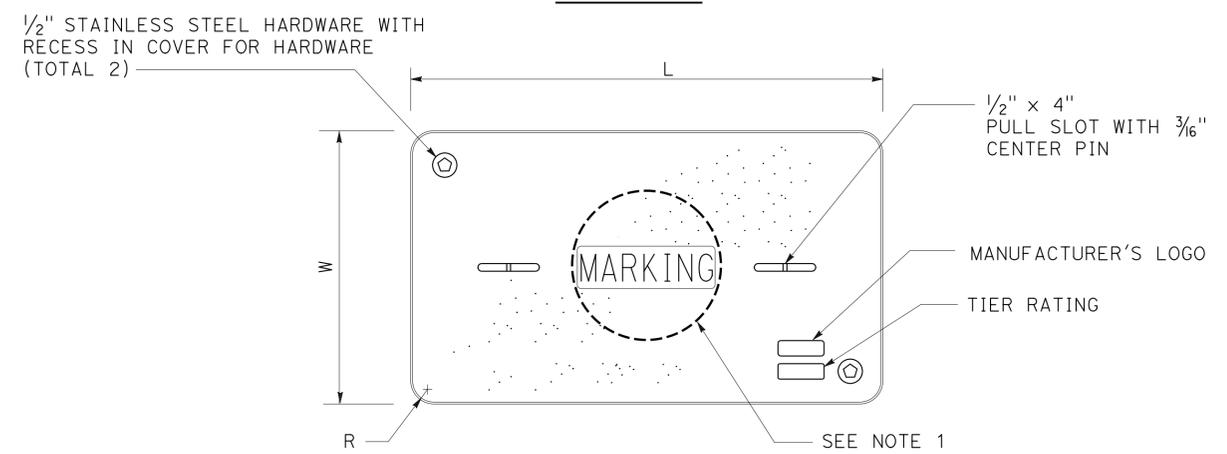
Theresa Gabriel  
 REGISTERED ELECTRICAL ENGINEER  
 July 19, 2013  
 PLANS APPROVAL DATE  
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER  
 Theresa Aziz Gabriel  
 No. E15129  
 Exp. 6-30-14  
 ELECTRICAL  
 STATE OF CALIFORNIA

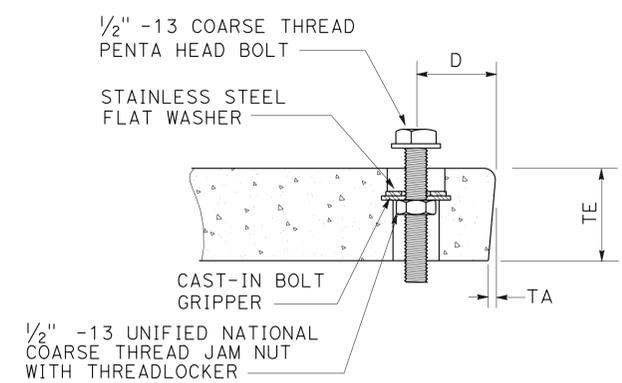
TO ACCOMPANY PLANS DATED 3-24-14



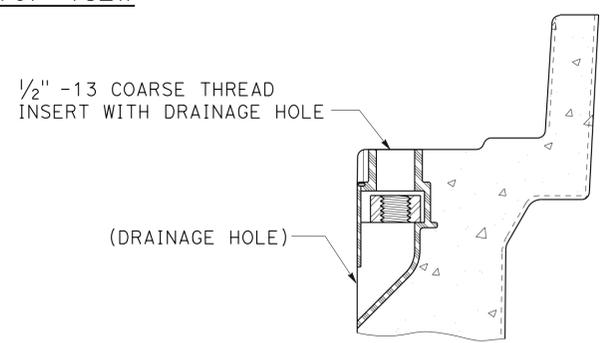
**INSTALLATION DETAILS**  
**DETAIL A**



**COVER TOP VIEW**



**TYPICAL COVER CAPTIVE BOLT**  
**OR SIMILAR**



**TYPICAL THREADED INSERT**  
**OR SIMILAR**

**NOTES:**

- Pull box covers shall be marked as follows: "SERVICE" Service circuits between service point and service disconnect; "SPRINKLER-CONTROL" sprinkler control circuits, 50 V or less; "CALTRANS" on all pull boxes, except pull boxes marked "SPRINKLER-CONTROL"; and "TELEPHONE" Telephone service;
  - No. 3 1/2 pull box.
    - "SIGNAL" - Traffic signal circuits with or without lighting or sign lighting circuits.
    - "LIGHTING" - Lighting or sign lighting circuits where voltage is under 600 V.
  - No. 5, 6, 9 or 9A pull box.
    - "TRAFFIC SIGNAL" - Traffic signal circuits with or without lighting or sign lighting circuits.
    - "LIGHTING" - Lighting or sign lighting circuits where voltage is under 600 V.
    - "LIGHTING-HIGH VOLTAGE" - Lighting or sign lighting circuits where voltage is above 600 V.
    - "IRRIGATION" - Circuits to irrigation controller 120 V or more.
    - "RAMP METER" - Ramp meter circuits.
    - "COUNT STATION" - Count or speed monitor circuits.
    - "COMMUNICATIONS" - Communication circuits.
    - "TOS COMMUNICATIONS" - TOS communication line.
    - "TOS POWER" - TOS power.
    - "TDC POWER" - Telephone demarcation cabinet power.
    - "CCTV" - Closed circuit television circuits.
    - "TMS" - Traffic monitoring station circuits.
    - "CMS" - Changeable message sign circuits.
    - "HAR" - Highway advisory radio circuits.
    - "BOOSTER PUMP" - Booster pump circuit.
- The nominal dimensions of the opening in which the cover sets shall be the same as the cover dimensions except the length and width dimensions shall be 1/8" greater.
- Covers and boxes shall be interchangeable with California standard male and female gages. When interchanged with a standard male or female gage, the top surfaces shall be flush within 1/8". Top outside radius of covers and pull boxes shall have a 1/8" radius.
- Pull box extension may be another pull box as long as the bottom edge of the pull box can fit into the cover opening.
- All dimensions for the cover for non-traffic pull box are nominal values.

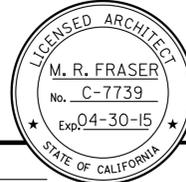
DIMENSION TABLE										
PULL BOX	PULL BOX			COVER						
	MINIMUM DEPTH BOX	MINIMUM DEPTH EXTENSION	MAXIMUM WEIGHT	L	W	R	TE	TA	D	MAXIMUM WEIGHT
No. 3 1/2	12"	N/A	40 lb	1' - 3 3/8"	10 1/8"	1 3/8"	2"	1/8"	1 3/4"	30 lb
No. 5	12"	10"	55 lb	1' - 11 1/4"	1' - 1 3/4"	1 3/8"	2"	1/8"	1 3/4"	60 lb
No. 6	12"	10"	70 lb	2' - 6 1/2"	1' - 5 1/2"	1 3/8"	2"	1/8"	2"	85 lb

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**ELECTRICAL SYSTEMS**  
**(NON-TRAFFIC PULL BOX)**  
 NO SCALE

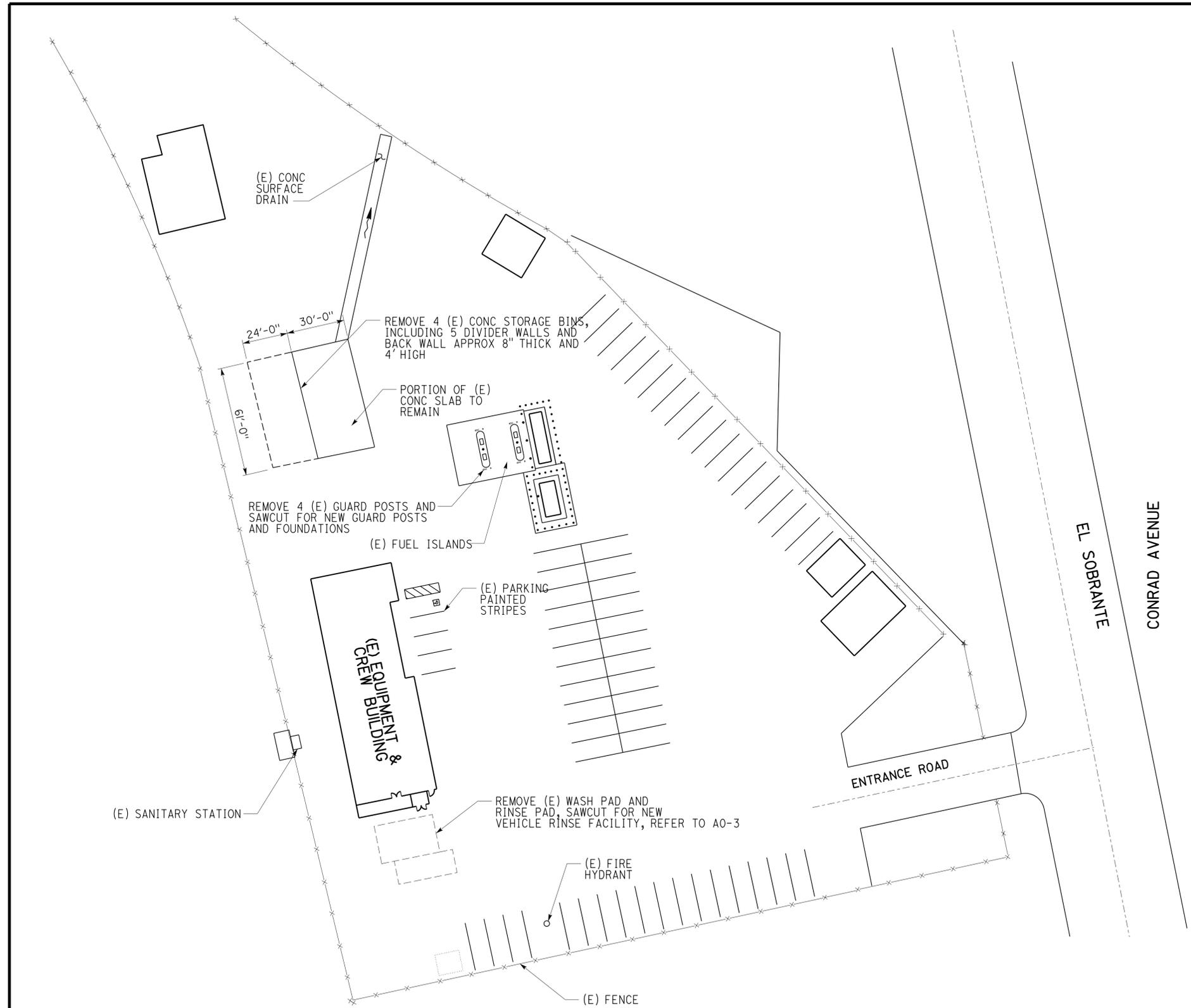
RSP ES-8A DATED JULY 19, 2013 SUPERSEDES RSP ES-8A DATED JANUARY 20, 2012 THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

**REVISED STANDARD PLAN RSP ES-8A**

2010 REVISED STANDARD PLAN RSP ES-8A

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	5730		15	106
 LICENSED ARCHITECT			11-15-13 DATE		
3-24-14 PLANS APPROVAL DATE					
<i>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.</i>					

<b>ACCESSIBILITY DESIGN APPROVAL STAMP</b> DOT / DES / OTA PROJECT ID <b>0812000224</b>	<b>CALIFORNIA STATE FIRE MARSHAL APPROVED</b> 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:  Y. A. WANG Date: 11-21-13	Reviewed by:  AARON GREER Approval date: 10-16-13



**SITE PLAN**

SCALE: 1" = 30'-0"



RE Travis  
 DESIGN SUPERVISOR  
 Donald E. Chavez  
 DESIGN ARCHITECT

DESIGNER Martin R. Fraser  
 DRAWN BY Martin R. Fraser

CHECKED BY: Donald E. Chavez  
 STRUCTURAL REVIEW

SHEET LEGEND  
 A-1 ARCHITECTURAL ST-1 STRUCTURAL  
 M-1 MECHANICAL EE-1 ELECTRICAL  
 P-1 PLUMBING SS-1 SANITARY

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES  
 ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE NO.  
 56M5730  
 POST MILE  
 X

**CORONA MAINTENANCE STATION**  
 REMOVAL PLAN

SHEET  
**GP-1**

GP-1.dgn  
 TAEMWW imperial Rev. 7/10 03-APR-2014 13:34

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

UNIT PROJECT NUMBER & PHASE  
 3600 08120002241  
 EA 0R9700

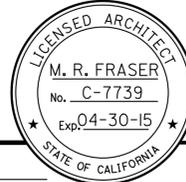
DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)  
 06-14-13 11-15-13

SHEET OF  
 X X  
 GP-1.dgn

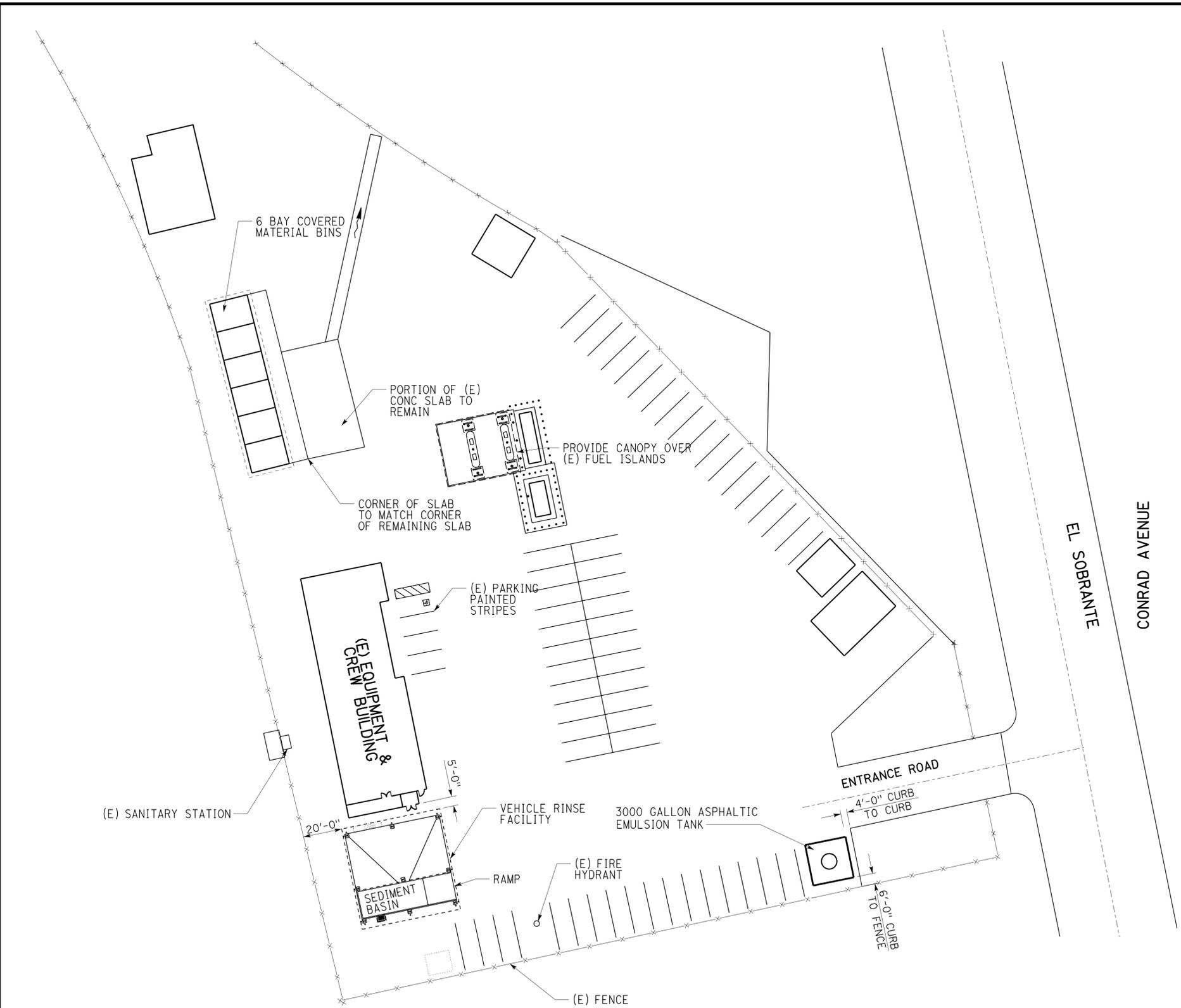
03-APR-2014 13:34

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	5730		16	106

  
 LICENSED ARCHITECT DATE 11-15-13  


3-24-14  
 PLANS APPROVAL DATE  
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<b>ACCESSIBILITY DESIGN APPROVAL STAMP</b> DOT / DES / OTA PROJECT ID <b>0812000224</b> Reviewed by:  Date: 11-21-13	<b>CALIFORNIA STATE FIRE MARSHAL APPROVED</b> 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:  Approval date: 10-16-13
--	--



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

### BUILDING ANALYSIS

(E) EQUIPMENT AND CREW BUILDING

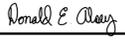
USE	VEHICLE RINSE FACILITY	(MOTOR VEHICLE REPAIR AND STORAGE)	(STORAGE) (OFFICE)
OCCUPANCY	B	S-1	B S-1
ACTUAL AREA	2756 SF	2784 SF	1515 SF 850 SF

ALLOWABLE AREA CALCULATION (WITH NO INCREASES)

OCCUPANCY	AREA	RATIO
B	4271 ACTUAL	= .47
	9000 ALLOWABLE	
S-1	3634 ACTUAL	= .40
	9000 ALLOWABLE	
<b>TOTAL OF RATIOS</b>		<b>.87 &lt; 1 BUILDING COMPLIES</b>
<b>TOTAL AREA</b>	<b>7905</b>	

RE Travis  
 DESIGN SUPERVISOR  
 Donald E. Chavez  
 DESIGN ARCHITECT

DESIGNER Martin R. Fraser  
 DRAWN BY Martin R. Fraser

CHECKED BY:   
 STRUCTURAL REVIEW

SHEET LEGEND  
 A-1 ARCHITECTURAL ST-1 STRUCTURAL  
 M-1 MECHANICAL EE-1 ELECTRICAL  
 P-1 PLUMBING SS-1 SANITARY

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES  
 ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE NO. 56M5730  
 POST MILE X

**CORONA MAINTENANCE STATION**  
 GENERAL PLAN

SHEET OF  
**GP-2**

GP-2.dgn  
 TAEMWW imperial Rev. 7/10 03-APR-2014 13:34

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

UNIT PROJECT NUMBER & PHASE 3600 08120002241

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)  
 06-14-13 11-15-13

SHEET OF X X

03-APR-2014 13:34

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	5730		17	106

*MRJ*  
 LICENSED ARCHITECT  
 DATE 11-15-13

**LICENSED ARCHITECT**  
 M. R. FRASER  
 No. C-7739  
 Exp. 04-30-15  
 STATE OF CALIFORNIA

3-24-14  
 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.*

**ACCESSIBILITY DESIGN APPROVAL STAMP**  
 DOT / DES / OTA

PROJECT ID  
**0812000224**

Reviewed by: *[Signature]*  
 Y. A. WANG  
 Date: 11-21-13

**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]*  
 AARON GREER  
 Approval date: 10-16-13

### ARCHITECTURAL

- GP-1 REMOVAL PLAN
- GP-2 GENERAL PLAN
- A0-1 INDEX OF SHEETS AND NOTES
- A0-2 ARCH ABBREVIATIONS/BUILDING DATA
- A0-3 VEHICLE RINSE FACILITY-DEMOLITION
- A1-1 VEHICLE RINSE FACILITY-FLOOR PLAN
- A1-2 VEHICLE RINSE FACILITY-ELEVATION
- A1-3 VEHICLE RINSE FACILITY-ELEVATION
- A1-4 VEHICLE RINSE FACILITY-ROOF PLAN
- A1-5 VEHICLE RINSE FACILITY-REFLECTED CEILING PLAN
- A1-6 VEHICLE RINSE FACILITY-SECTION
- A3-1 MATERIAL BINS FLOOR PLAN
- A3-2 MATERIAL BINS ELEVATIONS
- A3-3 MATERIAL BINS SECTIONS
- A3-4 MATERIAL BINS ROOF PLAN/CEILING PLAN
- A3-5 MATERIAL BINS DETAILS
- A3-6 MATERIAL BINS ROOF DETAILS
- A4-1 FUEL ISLAND CANOPY OVERALL FLOOR PLAN
- A4-2 FUEL ISLAND CANOPY ROOF PLAN
- A4-3 FUEL ISLAND CANOPY ELEVATION
- A4-4 FUEL ISLAND CANOPY ELEVATION
- A4-5 FUEL ISLAND CANOPY DETAILS

### STRUCTURAL

- ST3-4 WALL AND SLAB SECTIONS
- ST3-5 CANOPY FOOTING DETAILS
- ST3-6 CANOPY SECTION AND DETAILS
- ST3-7 CANOPY DETAILS 1
- ST3-8 CANOPY DETAILS 2
- ST3-9 CANOPY DETAILS 3
- ST3-10 CANOPY DETAILS 4
- ST3-11 CANOPY DETAILS 5
- ST3-12 CANOPY DETAILS 6
- ST4-0 DESIGN CRITERIA AND DETAIL NOTES
- ST4-1 FOUNDATION PLAN
- ST4-2 ROOF FRAMING PLAN
- ST4-3 CANOPY SECTIONS
- ST4-4 FOOTING & ROOF FRAME DETAILS
- ST4-5 FOUNDATION AND ROOF FRAME DETAILS
- ST4-6 ROOF FRAME DETAILS

### ACCESSIBILITY NOTES

- POT is not required at Material Bins, as any service vehicle may park next to the front apron and access this area.
- POT indicated on the plan must be the most practical and direct route between (E) utility room and vehicle rinse facility. Exact locations of POT's must be determined by the Engineer.
- POT's must be Min 48 inches wide with Min 80 inches head clearance.
- Except for any required clear level area at the door, POT may have Max 5% slope in the direction of travel and Max 2% cross slope.
- POT may have Max 1/2 inch level change W/ Max 1:2 slope. Level change not exceeding 1/4 inch may be vertical.
- POT surface must be firm, stable, slip-resistant, without loose gravels, etc.
- Door must have clear level area on both sides W/ Max 2% slope in any direction, Min 60"x 60" in the direction of door swing (including Min 24" past door strike edge), and Min 48" deep x 36" wide opposite door swing.
- Level change at the doorway, including threshold thickness, must be Max 1/2" W/ Max 1:2 slope. Level change not exceeding 1/4" may be vertical.
- Aisles formed by equipment and walls inside the (E) utility room must be Min 36" wide if serving one side, and Min 44" wide if serving both sides.
- Provide Min 2'-6" wide x 4'-0" deep clear level area in front of and centered W/ emergency eyewash & shower, W/ Max 2% slope in all directions. POT to this area need not be identified on the plan, as any vehicle may park next to such area and access the fixture.
- Refer to Std exemption document on file for applicable items exempt from access compliance.
- If the need arises in the future, the Owner must immediately install a code compliant portable accessible restroom on site for the use of mobility impaired person.

### MECHANICAL

- M2-1 ASPHALTIC EMULSION TANK DETAILS
- M2-2 LIMIT SWITCH MOUNTING DETAILS

### ELECTRICAL

- EE0-0 LEGEND
- EE0-1 NOTES AND ABBREVIATIONS
- EE0-2 TITLE 24 OUTDOOR LIGHTING FORMS 1
- EE0-3 TITLE 24 OUTDOOR LIGHTING FORMS 2
- EE0-4 EXISTING SITE PLAN
- EE0-5 MODIFIED SITE PLAN
- EE0-6 LIGHTING SCHEDULE
- EE1-1 POWER AND LIGHTING PLAN
- EE1-2 VEHICLE UNDERSPRAY POWER PLAN
- EE1-3 VEHICLE UNDERSPRAY CONTROL PANEL
- EE1-4 ELECTRICAL DETAILS
- EE2-1 SCHEMATIC DIAGRAM
- EE3-1 MATERIAL BINS POWER AND LIGHTING PLAN
- EE4-1 FUEL ISLAND CANOPY POWER AND LIGHTING PLAN

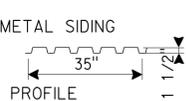
### WATER / SANITARY

- SS-0 NOTES, LEGENDS AND ABBREVIATIONS
- SS-1 EXISTING SITE PLAN
- SS-2 MODIFIED SITEPLAN
- SS-3 VEHICLE RINSE FACILITY
- SS-4 SAND-OIL/WATER SEPARATOR
- SS-5 OUTLET BOX
- SS-6 DETAILS
- SS-7 DETAILS
- SS-8 DETAILS
- SS-9 DETAILS

### STRUCTURAL

- ST-1 LEGEND
- ST-2 CONCRETE STANDARD
- ST1-0 DESIGN CRITERIA AND DETAIL NOTES
- ST1-1 FOUNDATION PLAN
- ST1-2 ROOF FRAMING PLAN
- ST1-3 MAIN SECTION
- ST1-4 BUILDING SECTIONS
- ST1-5 FOOTING/SLAB DETAILS
- ST1-6 OUTLET BOX DETAILS
- ST1-7 MISCELLANEOUS DETAILS
- ST1-8 ROOF FRAMING DETAILS
- ST2-0 DESIGN CRITERIA AND DETAIL NOTES
- ST2-1 EMULSION TANK PLANS
- ST2-2 EMULSION TANK ELEVATIONS
- ST2-3 EMULSION TANK ELEVATIONS
- ST2-4 EMULSION TANK SECTIONS
- ST2-5 HEATER WELL SECTIONS AND DETAILS
- ST2-6 EMULSION TANK DETAILS No. 1
- ST2-7 EMULSION TANK DETAILS No. 2
- ST2-8 EMULSION TANK DETAILS No. 3
- ST2-9 EMULSION TANK DETAILS No. 4
- ST2-10 EMULSION TANK DETAILS No. 5
- ST2-11 EMULSION TANK DETAILS No. 6
- ST2-12 EMULSION TANK DETAILS No. 7
- ST3-0 DESIGN CRITERIA AND DETAIL NOTES
- ST3-1 FOUNDATION PLAN
- ST3-2 ROOF FRAMING PLAN
- ST3-3 ELEVATIONS

### COLOR & PAINT SCHEDULE

ITEM	COATING SYSTEM	FEDERAL COLOR NUMBER
GALVANIZED METAL ROOF DECK	PRE-FINISHED BY MFR	NO PAINT REQUIRED
METAL SIDING  PROFILE	PRE-FINISHED BY MFR	33446
STRUCTURAL STEEL	4	36559
MISC METALS	4	36559
GUARD POSTS	4	33696

### Notes:

- Federal color numbers are to be used for color only not gloss level. Refer to Special Provisions for gloss level.
- The Engineer to approve final color selections.

DESIGN	BY Martin R. Fraser	CHECKED <i>Donald E. Overy</i>
DETAILS	BY Martin R. Fraser	CHECKED <i>Donald E. Overy</i>
QUANTITIES	BY	CHECKED

**STATE OF CALIFORNIA**  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES  
 ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE NO.	56M5730
POST MILE	X

### CORONA MAINTENANCE STATION

INDEX OF SHEETS AND NOTES

SHEET **A0-1**

# ARCHITECTURAL ABBREVIATIONS

& L	AND ANGLE	EPB	ELECTRICAL PANELBOARD	M	METER	S	SOUTH
⊕	CENTER LINE	EQUIP	EQUIPMENT	MAT	MATERIAL	SC	SOLID CORE
∅	DIAMETER	ESCL	ESCALATOR	MAX	MAXIMUM	SCHED	SCHEDULE
□	SQUARE	EWC	ELECTRIC WATER COOLER	MB	MACHINE BOLT	SD	SOAP DISPENSER
d	PENNY	EXP	EXPANSION	MEMB	MEMBER	SDST	SELF DRILLING
°	DEGREE	EXPO	EXPOSED, EXPOSURE	MECH	MECHANICAL	SF	SELF TAPPING
		EXT	EXTERIOR	MET	METAL	SQ	SQUARE FEET
		FD	FLOOR DRAIN	MFR	MANUFACTURER	SM	SQUARE METER
A/C	AIR CONDITIONING	FDN	FOUNDATION	MH	MAN HOLE	SH	SHOLE
AC	ASPHALT CONCRETE	FE	FIRE EXTINGUISHER	MIN	MINIMUM	SHWR	SHOWER
AB	ANCHOR BOLT	FEC	FIRE EXTINGUISHER CABINET	MIR	MIRROR	SHT	SHEET
ABV	ABOVE	FG	FINISH GRADE	MISC	MISCELLANEOUS	SHTG	SHEATHING
ACOUS	ACOUSTICAL	FH	FIRE HYDRANT	MIW	MALLEABLE IRON WASHER	SIM	SIMILAR
ADA	AMERICANS WITH DISABILITIES ACT	FHC	FIRE HOSE CABINET	MM	MILLIMETER	SMS	SHEET METAL
ADJ	ADJUSTABLE	FHMS	FLATHEAD METAL SCREW	MO	MASONRY OPENING	SOHD	SECTIONAL OVERHEAD DOOR
ALT	ALTERNATE	FHWS	FLATHEAD WOOD SCREW	MTD	MOUNTED	SPEC	SPECIFICATION
ALUM	ALUMINUM	FIN	FINISH	MUL	MULLION	SPS	STRUCTURAL PLYWOOD
APA	AMERICAN PLYWOOD ASSOCIATION	FJ	FLOOR JOIST	N	NORTH	SQ	SQUARE
ARCH	ARCHITECTURAL, ARCHITECT	FLASH	FLASHING	ND	NAPKIN DISPOSAL	SRRA	SAFETY ROADSIDE REST AREA
ASPH	ASPHALT	FLR	FLOOR	NIC	NOT IN CONTRACT	SS	SERVICE SINK
BD	BOARD	FLUOR	FLUORESCENT	NO	NUMBER	SST	STAINLESS STEEL
BIT	BITUMINOUS	FOC	FACE OF CONCRETE	NOM	NOMINAL	STA	STATION
BLDG	BUILDING	FOF	FACE OF FINISH	NTS	NOT TO SCALE	STAG	STAGGER
BLK	BLOCK	FOS	FACE OF STUD	NA	NOT APPLICABLE	STD	STANDARD
BLKG	BLOCKING	FRP	FIBERGLASS REINFORCED PANEL	OBSC	OBSCURE	STL	STEEL
BM	BEAM	FT	FEET, FOOT	OC	ON CENTER	STOR	STORAGE
BN	BOUNDARY NAILING	FTG	FOOTING	OD	OUTSIDE DIAMETER	STRUC	STRUCTURAL
BOT	BOTTOM	FURR	FURRING	OFF	OFFICE	SUSP	SUSPENDED
BR	BRIDGE	FWY	FREEWAY	OH	OPPOSITE HAND	T	TREAD
BTWN	BETWEEN	GA	GAUGE	OHD	OVERHEAD	T&G	TONGUE & GROOVE
BUR	BUILT-UP-ROOFING	GAL	GALLON	OWHS	OVALHEAD WOOD SCREW	TB	TOLL BOOTH
		GALV	GALVANIZED	OPNG	OPENING	TEL	TELEPHONE
		GB	GRAB BAR	OPP	OPPOSITE	TEMP	TEMPERED
		GI	GALVANIZED IRON	OPT	OPTION, OPTIONAL	TER	TERRAZZO
		GL	GLASS			THK	THICK
		GLM	GLUE LAMINATED MEMBER	P	PITCH	THLD	THRESHOLD
		GLZ	GLAZING	PB	POST BASE	TJ	TOOL JOINT
		GR	GRADE	PC	POST CAP	TKBD	TACKBOARD
		GSM	GALVANIZED SHEET METAL	PCC	PORTLAND CEMENT CONCRETE	TN	TOE NAIL
		GYBD	GYPSUM BOARD	PH	PHILLIPS HEAD PLATE	TOC	TOP OF CURB OR CONCRETE
		GYP SHTG	GYPSUM SHEATHING	PL	PLASTIC LAMINATE	TOP	TOP OF PAVEMENT
				PLAS	PLASTER	TOS	TOE OF SLOPE
				PLWD	PLYWOOD	TOT	TOTAL
				PMF	PRESSED METAL FRAME	TOW	TOP OF WALL
				POT	PATH OF TRAVEL	TS	TUBULAR STEEL
				PR	PAIR	TSCD	TOILET SEAT COVER DISPENSER
				PRTN	PARTITION	TTD	TOILET TISSUE DISPENSER
				PT	POINT	TYP	TYPICAL
				PTD	PAPER TOWEL DISPENSER	UNF	UNFINISHED
				PTD/R	COMBINATION PTD & WASTE RECEPTACLE	UON	UNLESS OTHERWISE NOTED
				PVC	POLYVINYL CHLORIDE	UR	URINAL
				PWB	PREFABRICATED WOOD I BEAM	VAR	VARIES
				QT	QUARRY TILE	VCT	VINYL COMPOSITION TILE
				(R)	RELOCATED	VERT	VERTICAL
				R	RADIUS, RISER	VEST	VESTIBULE
				R/W	RIGHT OF WAY	VR	VENT RISER
				RD	ROOF DRAIN	VTR	VENT THROUGH ROOF
				RDWD	REDWOOD		
				REF	REFERENCE	W	WEST
				REFG	REFRIGERATOR	W/	WITH
				REINF	REINFORCED(ING)	W/O	WITHOUT
				REQ	REQUIRED	WC	WATER CLOSET
				REFG	ROOFING	WD	WOOD
				RFSWN	ROUGHSAWN	WDW	WINDOW
				RH	ROUND HEAD	WH	WATER HEATER
				RHS	ROUNDHEAD WOOD SCREW	WP	WORKING POINT
				RJ	ROOF JOIST	WR	WATER RESISTANT WAINSCOT
				RM	ROOM	WSCT	WEIGHT
				RO	ROUGH OPENING	WT	WATERPROOFING
				RSWN	RESAWN	WTPR	WELDED WIRE FABRIC
				RTE	ROUTE	WWF	
				RWL	RAINWATER LEADER	YD	YARD

# SYMBOLS

	EARTH	102	ROOM DESIGNATION
	AC PAVING	3	DOOR DESIGNATION
	CONCRETE	A	WINDOW DESIGNATION
	SAND/MORTAR/PLASTER	L2	LOUVER DESIGNATION
	BATT INSULATION		ELEVATION
	SOUND INSULATION		SECTION LETTER
	RIGID INSULATION		SHEET NUMBER
	STEEL		DETAIL NUMBER
	PLYWOOD		SHEET NUMBER
	CONTINUOUS WOOD FRAMING		DETAIL NUMBER
	WOOD BLOCKING		SAME SHEET
	FINISH WOOD		GRID LINE (LETTER IN ONE DIRECTION, NUMBERS IN OTHER DIRECTION)
			REFERENCE NORTH

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	5730		18	106

LICENSED ARCHITECT  
 No. C-7739  
 Exp. 04-30-15  
 DATE: 11-15-13  
 PLANS APPROVAL DATE: 3-24-14  
*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.*

<b>ACCESSIBILITY DESIGN APPROVAL STAMP</b> DOT / DES / OTA PROJECT ID: <b>0812000224</b> Reviewed by: Date: 11-21-13	<b>CALIFORNIA STATE FIRE MARSHAL APPROVED</b> 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: Approval date: 10-16-13
--	--

## GENERAL NOTES

- Verify all controlling dimensions and field conditions before ordering or fabricating any materials or assemblies.
- Notify the Engineer in writing of any discrepancies between plans and actual measurements or field conditions.

ASPHALT EMULSION	COMPOSITION:	ASPHALT	30 - 72%	HAZARDS IDENTIFICATION:	NFPA RATING --	HEALTH:	1
		LIGHT DISTILLATE	0 - 12%			FLAMMABILITY	1
		WATER & EMULSIFIER	18 - 37%			REACTIVITY	0
						SPECIAL HAZARD:	CORROSIVE
						FIRE FIGHTING MEASURES	
						NFPA FLAMMABILITY CLASSIFICATION:	
						FLASH POINT -	450° F
						AUTO IGNITION TEMPERATURE -	>700 F
						EXTINGUISHING MEDIA -	FOAM, CO2, DRY CHEMICAL, WATER FOG, OTHER

## DESIGN CRITERIA

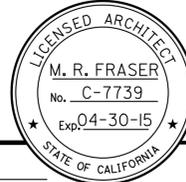
THE BUILDING WORK FOR THIS PROJECT HAS BEEN DESIGN TO CONFORM TO THE 2010 EDITION OF TITLE 24, CALIFORNIA CODE OF REGULATIONS:

- PART 2 - CALIFORNIA BUILDING CODE 2010,
- PART 3 - CALIFORNIA ELECTRICAL CODE 2010,
- PART 4 - CALIFORNIA MECHANICAL CODE 2010,
- PART 5 - CALIFORNIA PLUMBING CODE 2010,
- PART 6 - CALIFORNIA ENERGY CODE 2010,
- PART 9 - CALIFORNIA FIRE CODE 2010,
- PART 11 - CALIFORNIA GREEN BUILDING STANDARDS AND 2010 ADA STANDARDS.

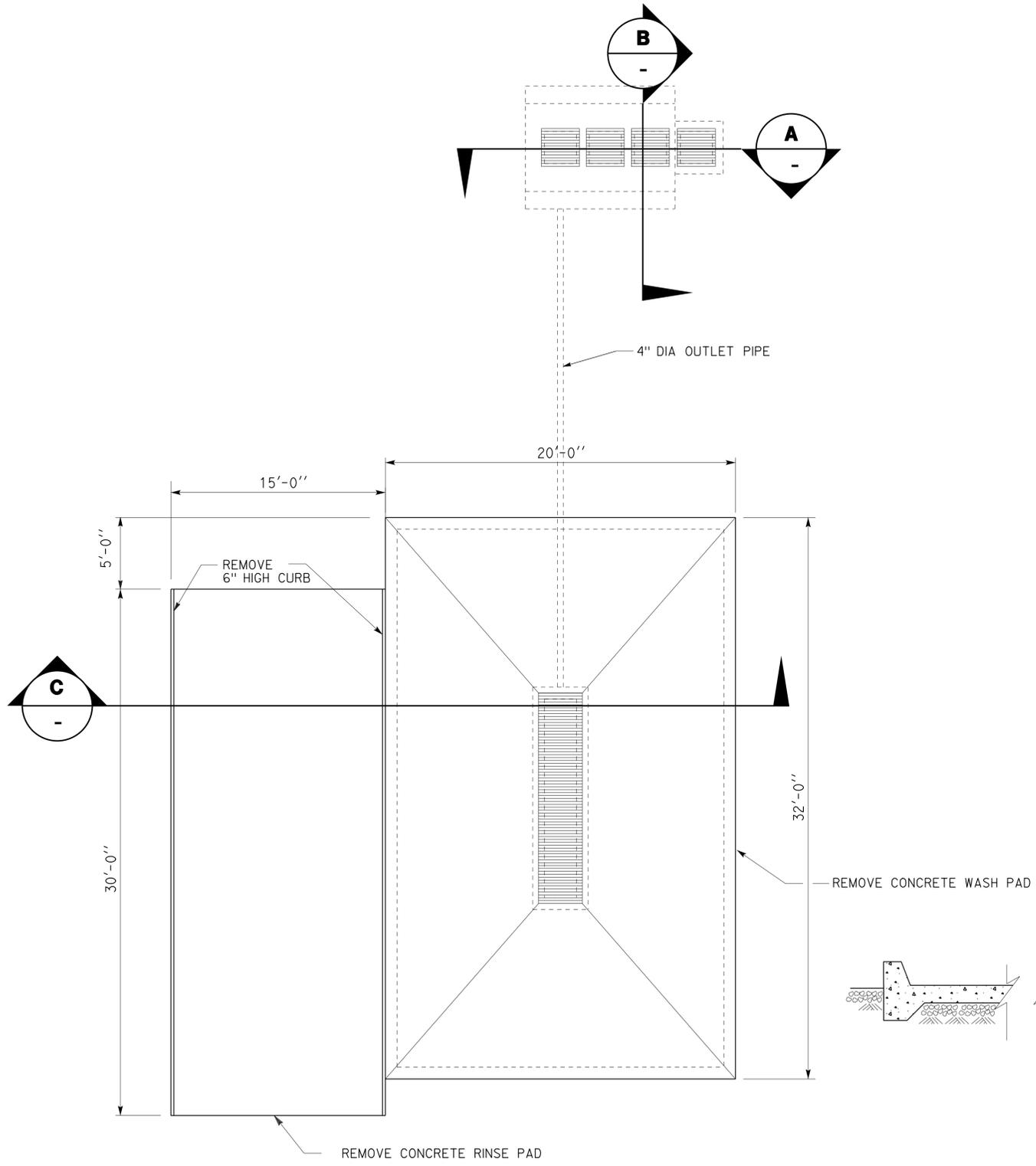
BUILDING DATA THIS PROJECT IS IN COMPLIANCE													
NOTE: SEE BUILDING ANALYSIS ON GP-2 FOR ADDITIONAL INFORMATION	OCCUPANCY	CONSTRUCTION TYPE	NUMBER OF STORIES	BUILDING HEIGHT	BUILDING AREA	AREA OF PROJECT	ALLOWABLE AREA	AREA OR HEIGHT INCREASES	FIRE SPRINKLERED	FIRE ALARM	OTHER FIRE PROTECTION SYSTEMS IF ANY	SMOKE CONTROL SYSTEM	OCCUPANT LOAD
VEHICLE RINSE FACILITY	B	V-B	1	25'-0"	2756 SF	2756 SF	9000 SF	NO	NOT REQ	NOT REQ	NO	NOT REQ	0
EMULSION TANK	U	V-B	1	20'-4"	144 SF	144 SF	5500 SF	NO	NOT REQ	NOT REQ	NO	NOT REQ	0
MATERIAL BINS	S-2	V-B	1	18'-0"	2973 SF	2973 SF	13,500 SF	NO	NOT REQ	NOT REQ	NO	NOT REQ	0
FUEL ISLAND CANOPY	M	V-B	1	18'-0"	1272 SF	1272 SF	9000 SF	NO	NOT REQ	NOT REQ	NO	NOT REQ	0

DESIGN BY: Martin R. Fraser	CHECKED:	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 56M5730	<b>CORONA MAINTENANCE STATION</b> ARCH ABBREVIATIONS/BUILDING DATA	SHEET 18 OF 106
DETAILS BY: Martin R. Fraser	CHECKED:			POST MILE X		SHEET A0-2
QUANTITIES BY:	CHECKED:					

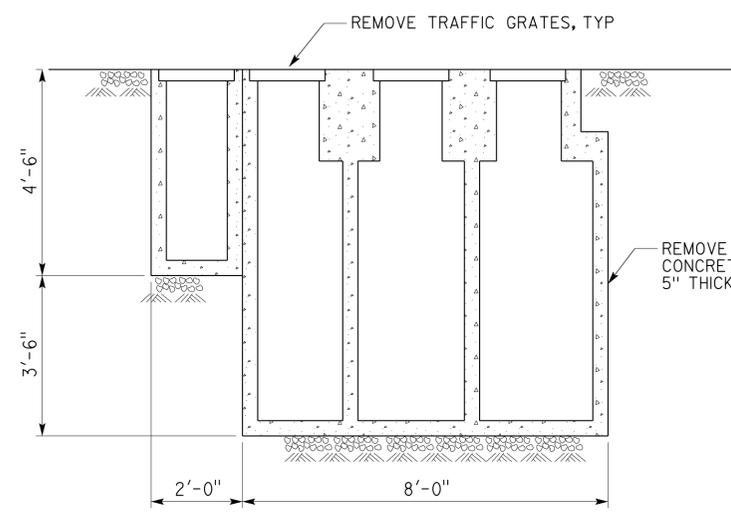
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3  
 UNIT: 3600  
 PROJECT NUMBER & PHASE: 08120002241  
 DISREGARD PRINTS BEARING EARLIER REVISION DATES: 06-14-13 11-15-13  
 REVISION DATES (PRELIMINARY STAGE ONLY):  
 a0\_2.dgn TAEMW imperial Rev. 7/10 27-MAR-2014 08:26 EA 0R9700 a0\_2.dgn

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	5730		19	106
 LICENSED ARCHITECT			11-15-13 DATE		
3-24-14 PLANS APPROVAL DATE					
<i>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.</i>					

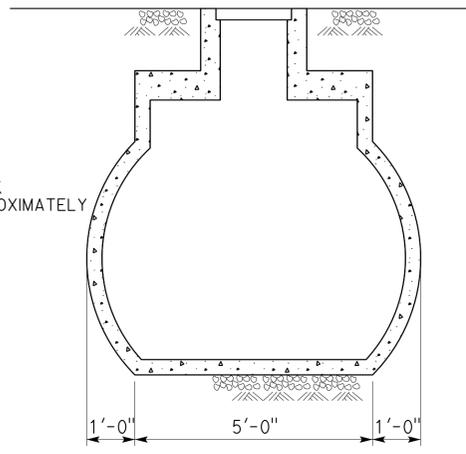
- Notes:
1. Remove wash pad, clarifier tank, piping and all related items.
  2. Dimensions shown are approximate.



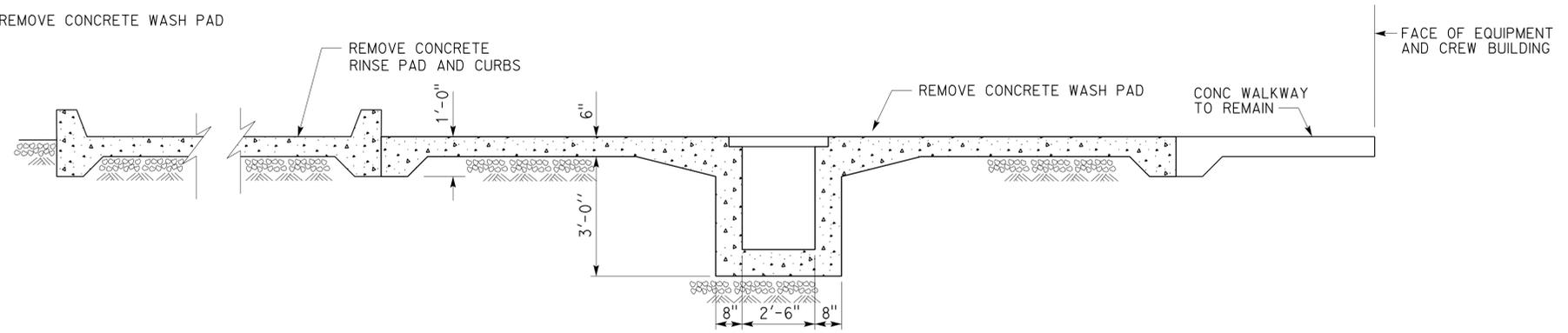
**PLAN**  
SCALE 1/4" = 1'-0"



**A CLARIFIER SECTION**  
SCALE 1/2" = 1'-0"



**B CLARIFIER SECTION**  
SCALE 1/2" = 1'-0"



**C WASH AREA SLAB SECTION**  
SCALE 1/2" = 1'-0"

DESIGN	BY Martin R. Fraser	CHECKED <i>Donald E. Alvey</i>
DETAILS	BY Martin R. Fraser	CHECKED <i>Donald E. Alvey</i>
QUANTITIES	BY	CHECKED

**STATE OF CALIFORNIA**  
**DEPARTMENT OF TRANSPORTATION**

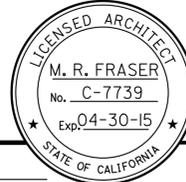
DIVISION OF ENGINEERING SERVICES  
ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE NO. 56M5730  
POST MILE X

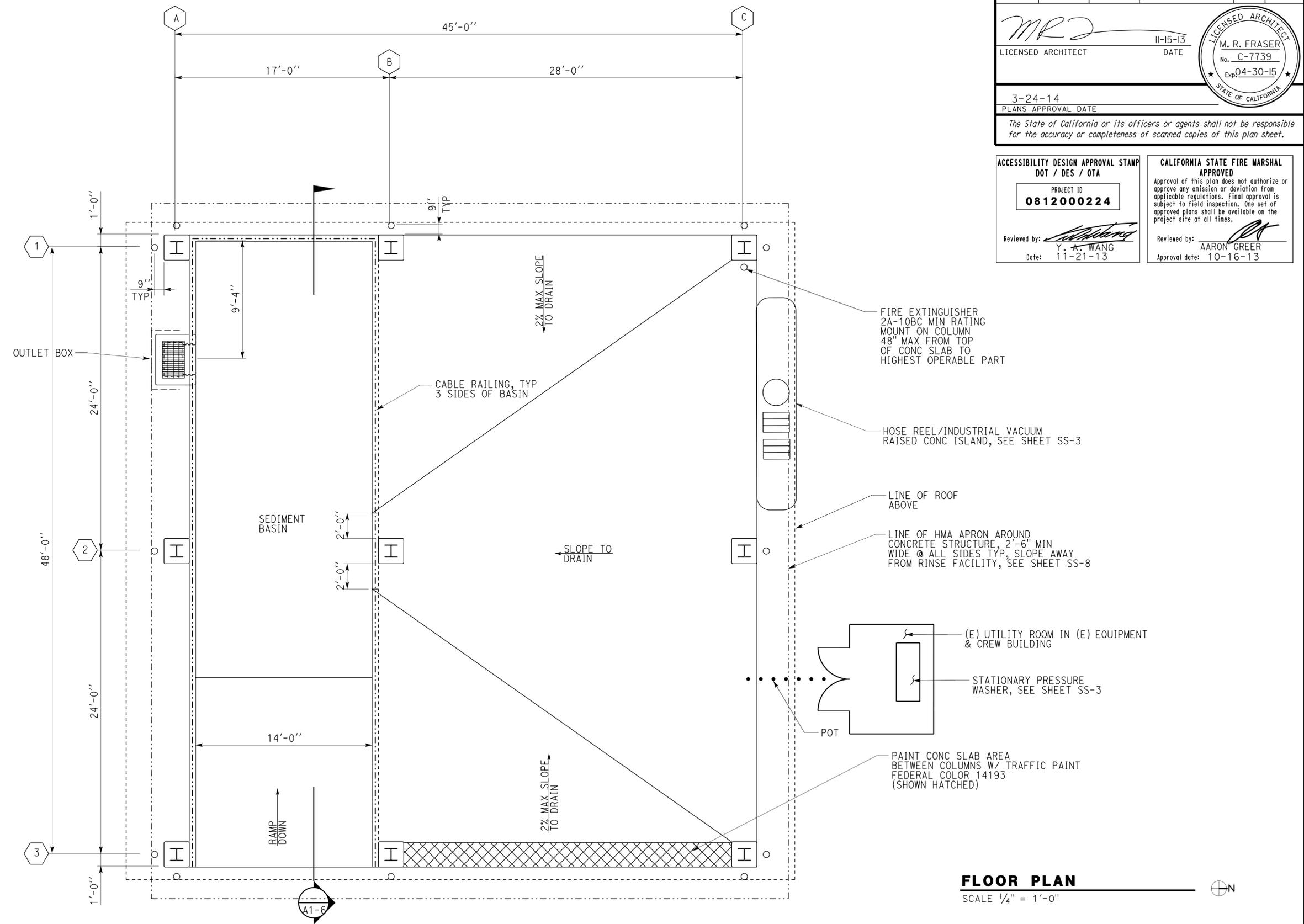
**CORONA MAINTENANCE STATION**  
VEHICLE RINSE FACILITY  
**DEMOLITION**

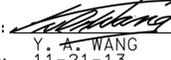
SHEET **A0-3**

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	5730		20	106

  
 LICENSED ARCHITECT DATE 11-15-13  


3-24-14  
 PLANS APPROVAL DATE  
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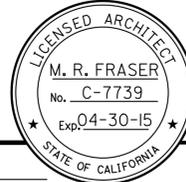


<b>ACCESSIBILITY DESIGN APPROVAL STAMP</b> DOT / DES / OTA PROJECT ID <b>0812000224</b>	<b>CALIFORNIA STATE FIRE MARSHAL APPROVED</b> Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
Reviewed by:  Y. A. WANG Date: 11-21-13	Reviewed by:  AARON GREER Approval date: 10-16-13

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

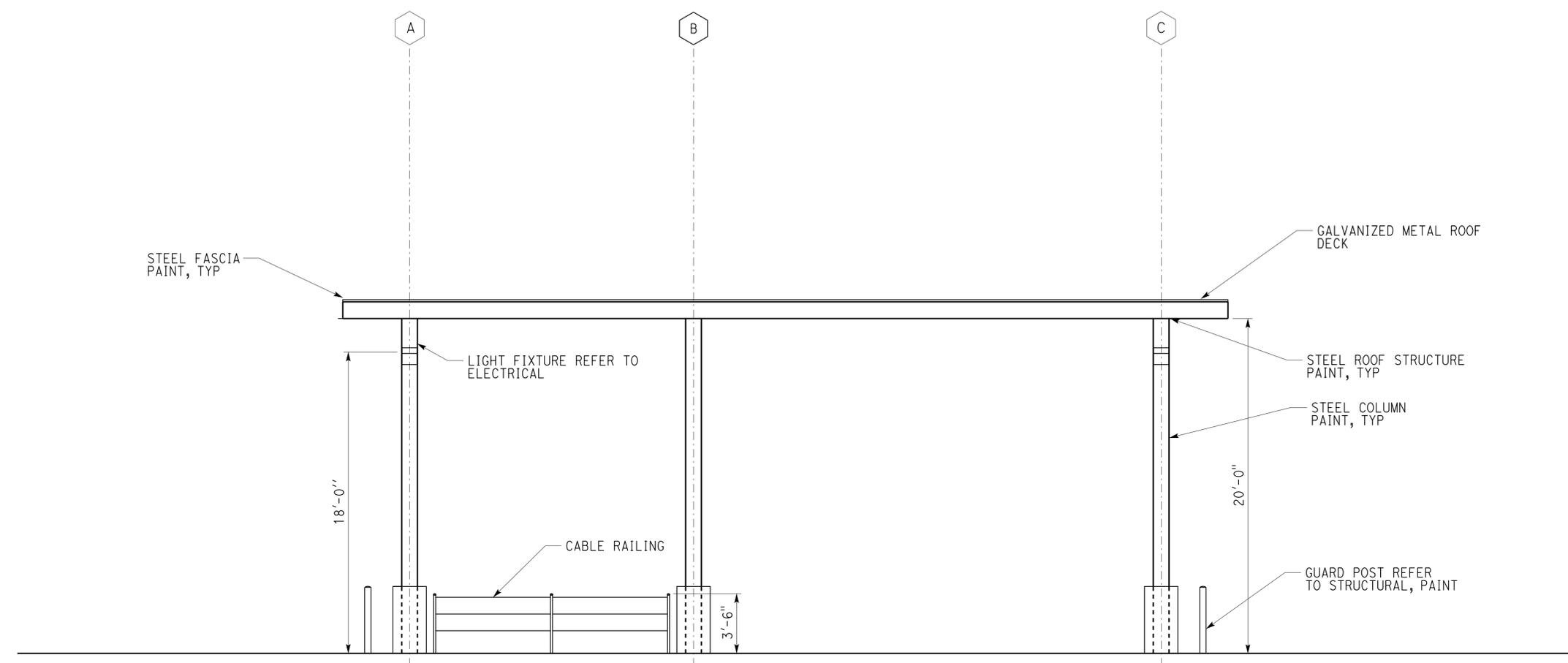
A1_1.dgn TAEMWW imperial Rev. 7/10 28-MAR-2014 13:55	DESIGN BY Martin R. Fraser	CHECKED 	<b>STATE OF CALIFORNIA</b> <b>DEPARTMENT OF TRANSPORTATION</b>	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 56M5730	<b>CORONA MAINTENANCE STATION</b> VEHICLE RINSE FACILITY	SHEET OF <b>A1-1</b>
	DETAILS BY Martin R. Fraser	CHECKED 		ARCHITECTURAL AND STRUCTURAL DESIGN	POST MILE X		
	QUANTITIES BY	CHECKED	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3600 08120002241	DISREGARD PRINTS BEARING EARLIER REVISION DATES 06-14-13 11-15-13	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF X X

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	5730		21	106

  
 LICENSED ARCHITECT DATE 11-15-13  


3-24-14  
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.*



**ACCESSIBILITY DESIGN APPROVAL STAMP**  
 DOT / DES / OTA  
 PROJECT ID  
**0812000224**  
 Reviewed by:   
 Y. A. WANG  
 Date: 11-21-13

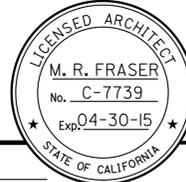
**CALIFORNIA STATE FIRE MARSHAL APPROVED**  
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.  
 Reviewed by:   
 AARON GREER  
 Approval date: 10-16-13

**ELEVATION**  
SCALE 1/4" = 1'-0"

A1_2.dgn TAEMWW imperial Rev. 7/10 27-MAR-2014 08:26	DESIGN BY Martin R. Fraser	CHECKED 	<b>STATE OF CALIFORNIA</b> <b>DEPARTMENT OF TRANSPORTATION</b>	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 56M5730	<b>CORONA MAINTENANCE STATION</b> VEHICLE RINSE FACILITY <b>ELEVATION</b>	SHEET
	DETAILS BY Martin R. Fraser	CHECKED 		ARCHITECTURAL AND STRUCTURAL DESIGN	POST MILE X		OF
	QUANTITIES BY	CHECKED					X
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			0 1 2 3	UNIT PROJECT NUMBER & PHASE 3600 08120002241	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	X X

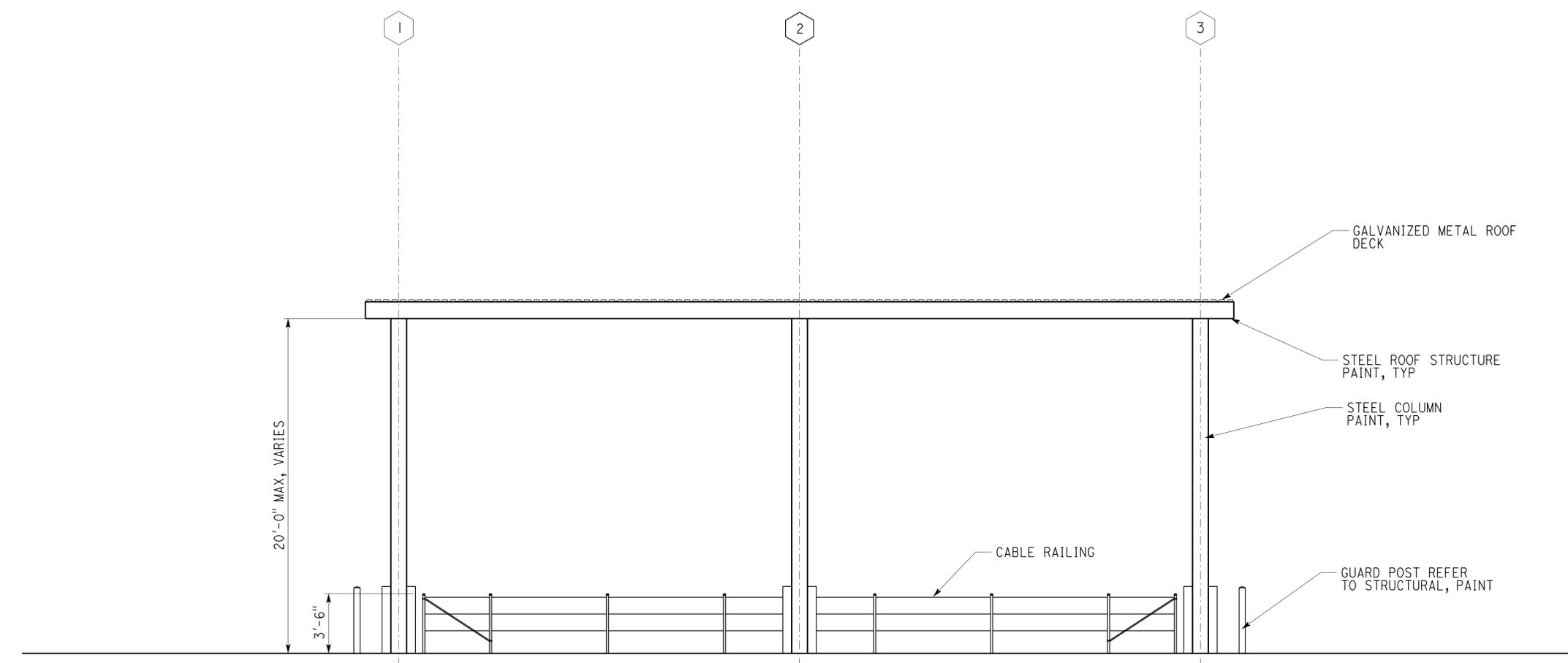
27-MAR-2014 08:26 A1\_2.dgn

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	5730		22	106

  
 LICENSED ARCHITECT  
 DATE 11-15-13  


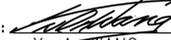
3-24-14  
PLANS APPROVAL DATE

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**ACCESSIBILITY DESIGN APPROVAL STAMP**  
DOT / DES / OTA

PROJECT ID  
**0812000224**

Reviewed by:   
Y. A. WANG  
Date: 11-21-13

**CALIFORNIA STATE FIRE MARSHAL APPROVED**

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Reviewed by:   
AARON GREER  
Approval date: 10-16-13

**ELEVATION**  
SCALE 1/4" = 1'-0"

A1_3.dgn TAEMWW imperial Rev. 7/10 27-MAR-2014 08:26	DESIGN BY Martin R. Fraser	CHECKED 	<b>STATE OF CALIFORNIA</b> <b>DEPARTMENT OF TRANSPORTATION</b>	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 56M5730	<b>CORONA MAINTENANCE STATION</b> VEHICLE RINSE FACILITY <b>ELEVATION</b>	SHEET OF
	DETAILS BY Martin R. Fraser	CHECKED 		ARCHITECTURAL AND STRUCTURAL DESIGN	POST MILE X		A1-3
	QUANTITIES BY	CHECKED		PROJECT NUMBER & PHASE 3600 08120002241	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)

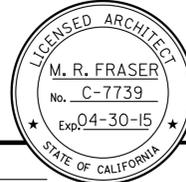
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT PROJECT NUMBER & PHASE 3600 08120002241

EA 0R9700

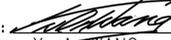
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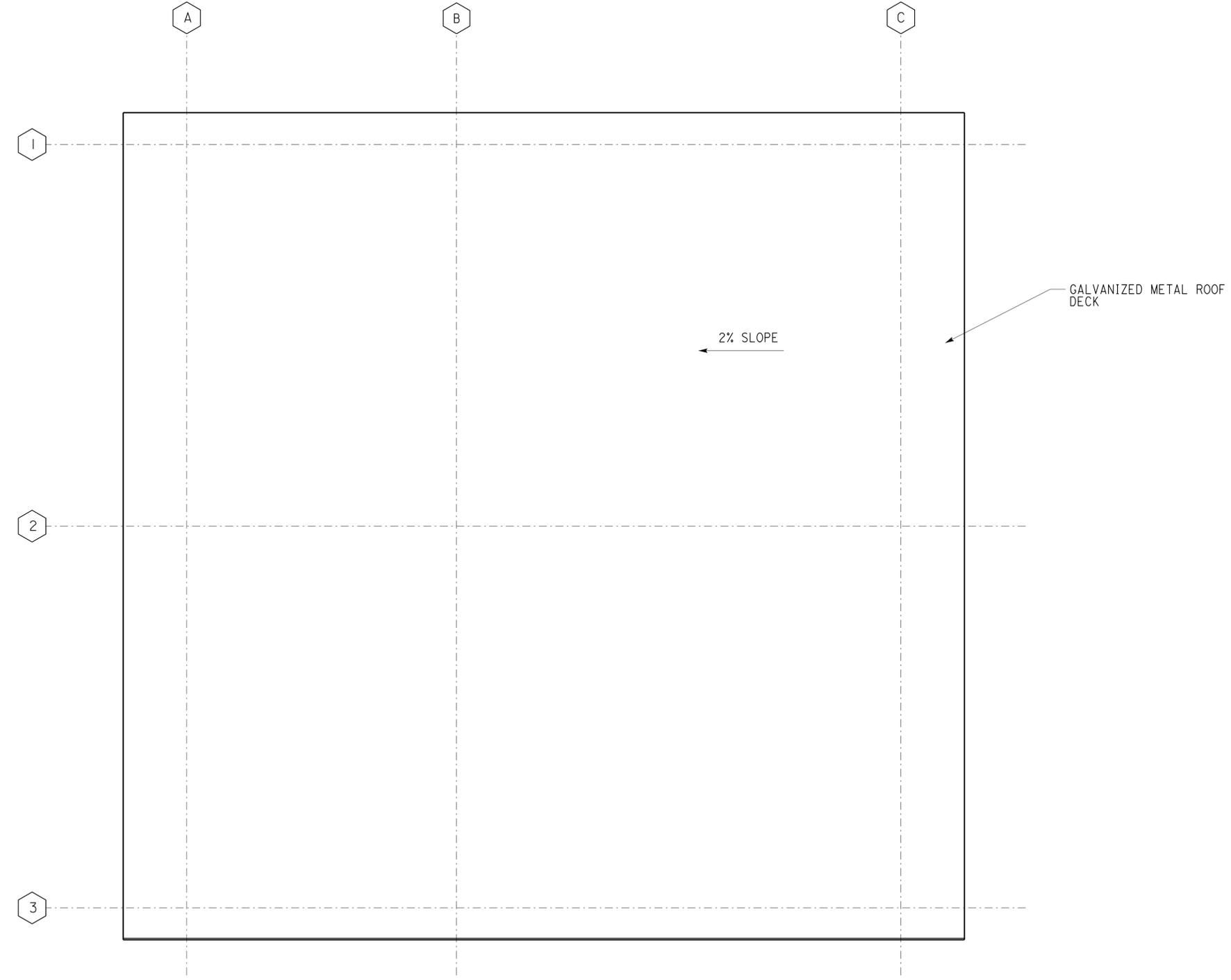
DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	5730		23	106

  
 LICENSED ARCHITECT  
 DATE 11-15-13  


3-24-14  
PLANS APPROVAL DATE

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<b>ACCESSIBILITY DESIGN APPROVAL STAMP</b> DOT / DES / OTA PROJECT ID <b>0812000224</b> Reviewed by:  Y. A. WANG Date: 11-21-13	<b>CALIFORNIA STATE FIRE MARSHAL APPROVED</b> 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:  AARON GREER Approval date: 10-16-13
--	---



**ROOF PLAN**  
SCALE 1/4" = 1'-0" 

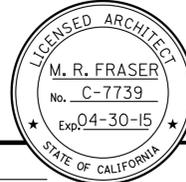
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	DETAILS BY Martin R. Fraser	CHECKED 		ARCHITECTURAL AND STRUCTURAL DESIGN	POST MILE X		
	QUANTITIES BY	CHECKED		UNIT PROJECT NUMBER & PHASE 3600 08120002241	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

EA OR9700

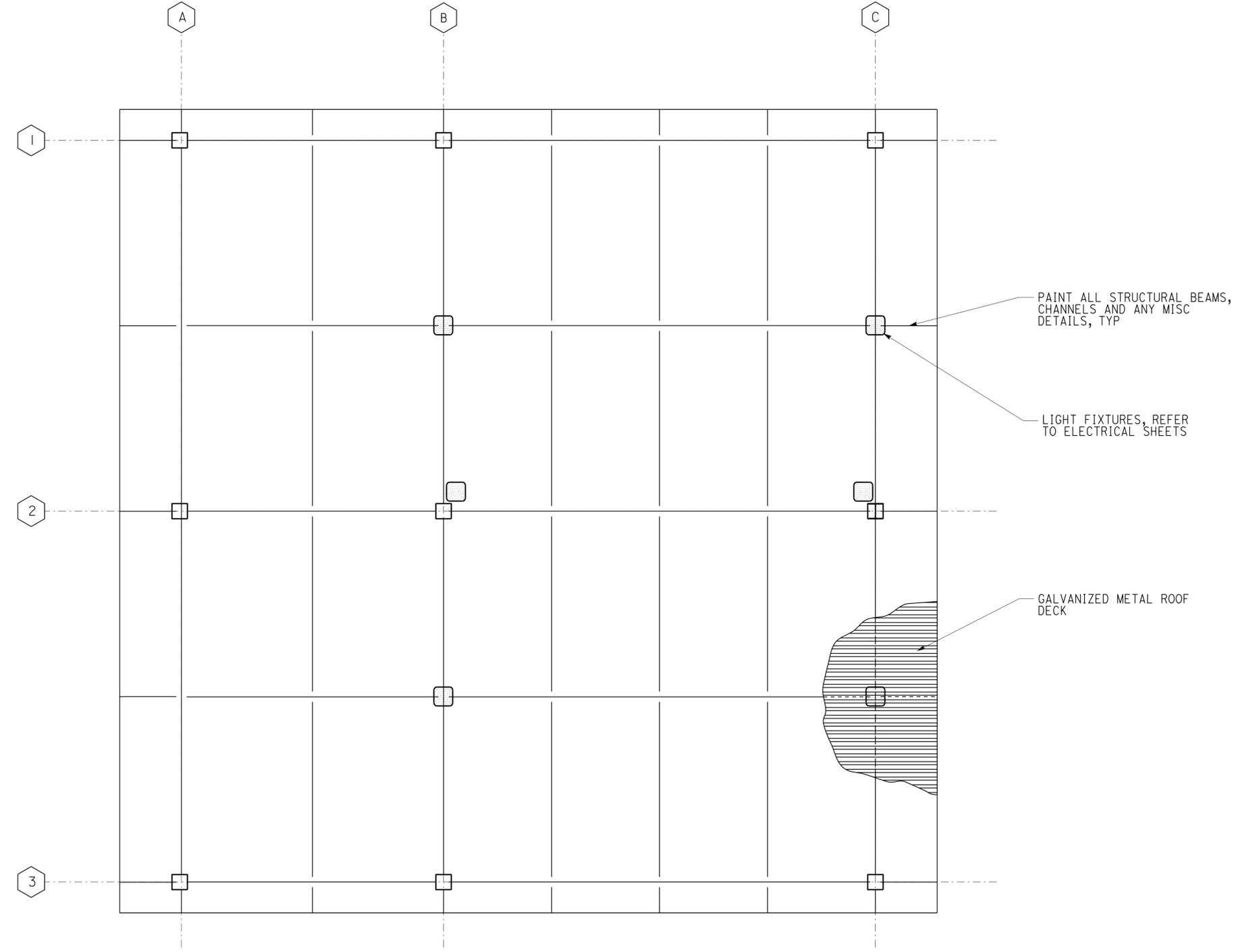
27-MAR-2014 08:26

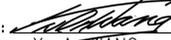
DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	5730		24	106

  
 LICENSED ARCHITECT  
 DATE 11-15-13  


3-24-14  
PLANS APPROVAL DATE

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**ACCESSIBILITY DESIGN APPROVAL STAMP**  
 DOT / DES / OTA  
 PROJECT ID  
**0812000224**  
 Reviewed by:   
 Y. A. WANG  
 Date: 11-21-13

**CALIFORNIA STATE FIRE MARSHAL APPROVED**  
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 AARON GREER  
 Approval date: 10-16-13

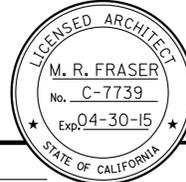
**REFLECTED CEILING PLAN**   
 SCALE 1/4" = 1'-0"

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	DETAILS BY Martin R. Fraser	CHECKED 		ARCHITECTURAL AND STRUCTURAL DESIGN	POST MILE X		
	QUANTITIES BY	CHECKED	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3600 08120002241	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 06-14-13 11-15-13	

EA 0R9700

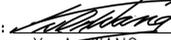
03-APR-2014 13:36

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	5730		25	106

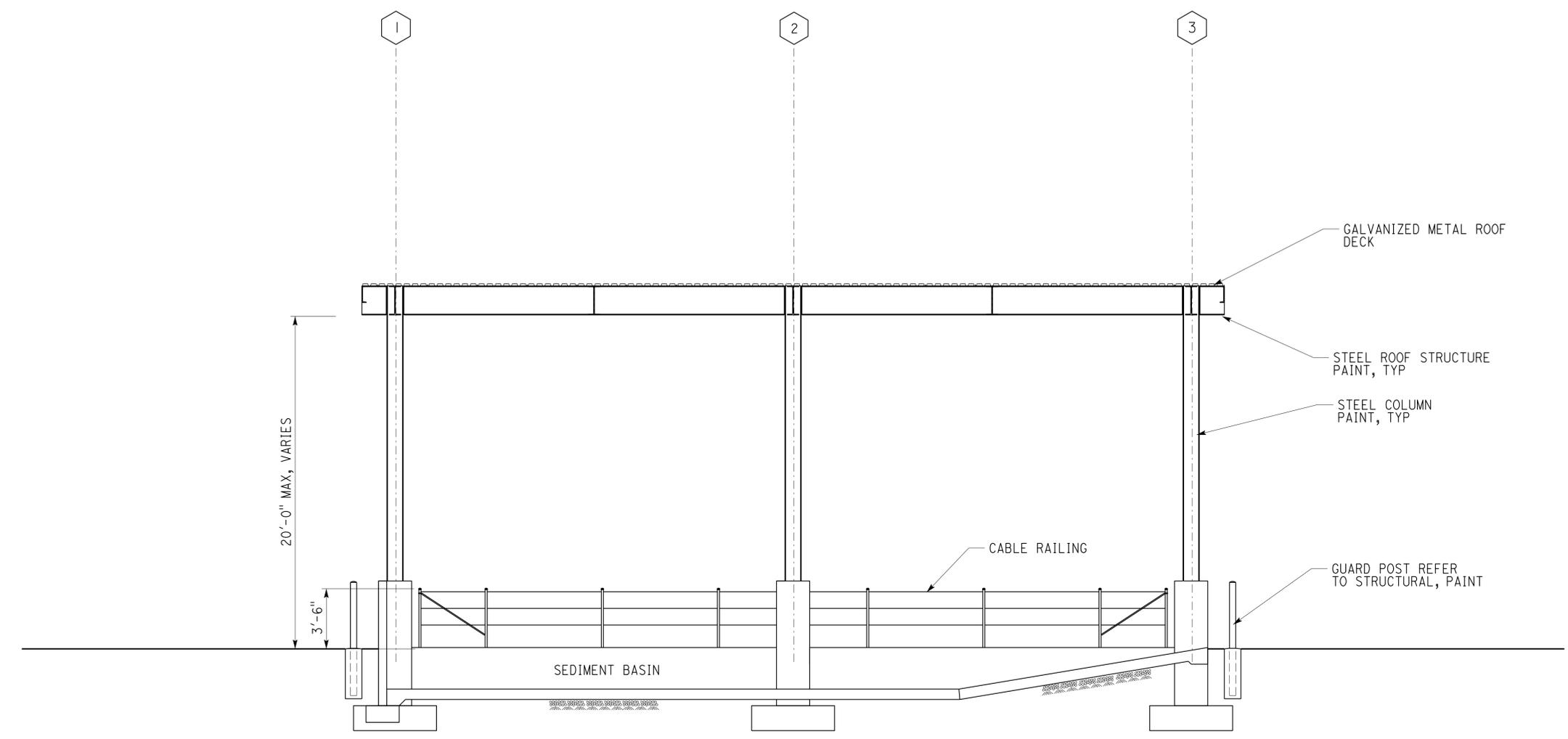
  
 LICENSED ARCHITECT  
 DATE 11-15-13  


3-24-14  
PLANS APPROVAL DATE

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**ACCESSIBILITY DESIGN APPROVAL STAMP**  
 DOT / DES / OTA  
 PROJECT ID  
**0812000224**  
 Reviewed by:   
 Y. A. WANG  
 Date: 11-21-13

**CALIFORNIA STATE FIRE MARSHAL APPROVED**  
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 AARON GREER  
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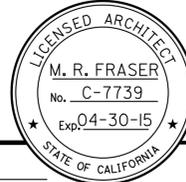


**SECTION**  
SCALE 1/4" = 1'-0"

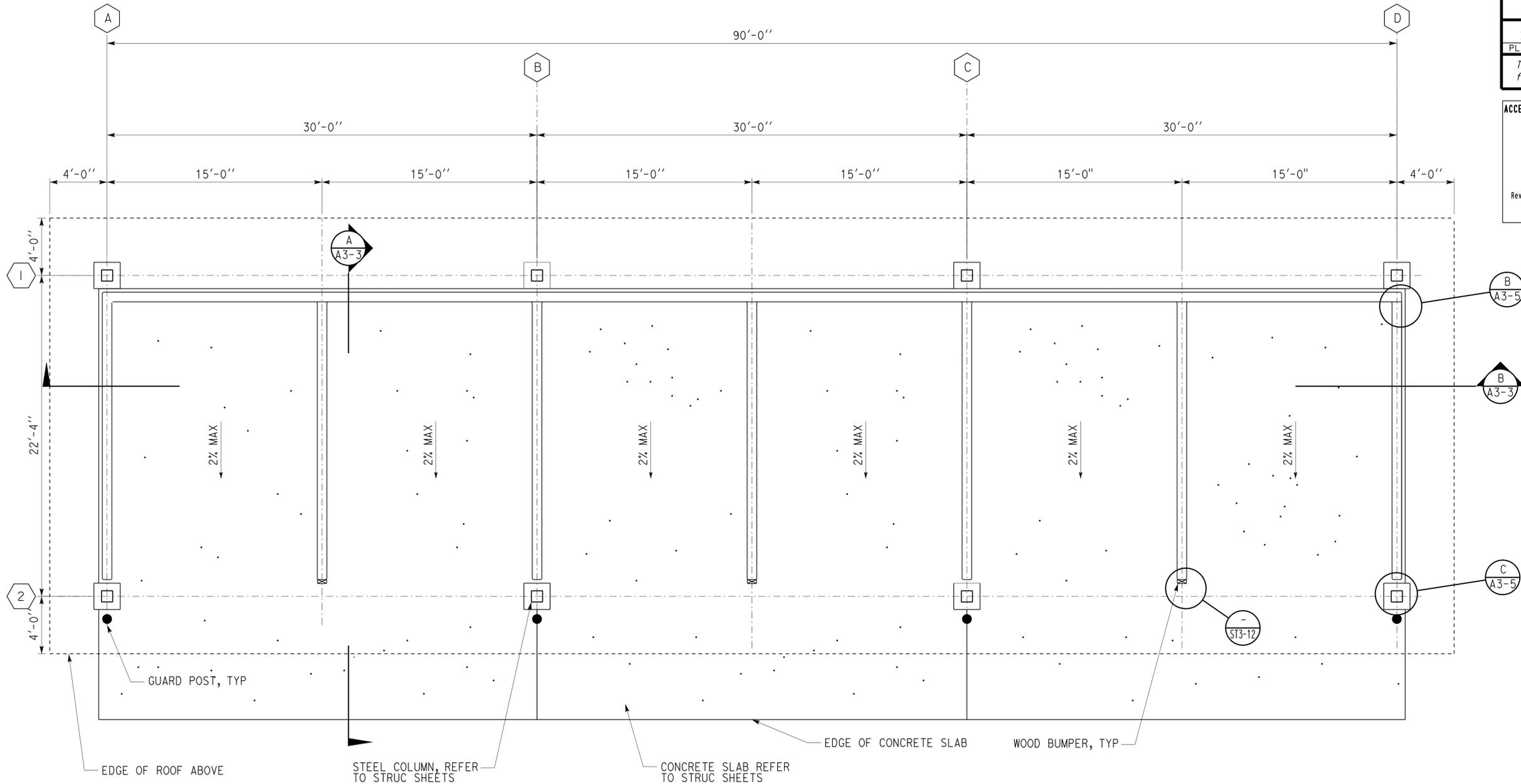
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	DETAILS BY Martin R. Fraser	CHECKED 		ARCHITECTURAL AND STRUCTURAL DESIGN	POST MILE X	VEHICLE RINSE FACILITY	SECTION	<b>A1-6</b>
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			0 1 2 3	EA 0R9700		06-14-13 11-15-13		A1_6.dgn

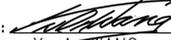
27-MAR-2014 08:26

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	5730		26	106

  
 LICENSED ARCHITECT  
 DATE 11-15-13  


3-24-14  
 PLANS APPROVAL DATE  
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<b>ACCESSIBILITY DESIGN APPROVAL STAMP</b> DOT / DES / OTA PROJECT ID <b>0812000224</b> Reviewed by:  Y. A. WANG Date: 11-21-13	<b>CALIFORNIA STATE FIRE MARSHAL APPROVED</b> 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:  AARON GREER Approval date: 10-16-13
--	---

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



A3_1.dgn TAEMWW imperial Rev. 7/10 27-MAR-2014 08:27	DESIGN BY Martin R. Fraser CHECKED 	<b>STATE OF CALIFORNIA</b> <b>DEPARTMENT OF TRANSPORTATION</b>	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 56M5730 POST MILE X	<b>CORONA MAINTENANCE STATION</b>	SHEET <b>A3-1</b>
	DETAILS BY Martin R. Fraser CHECKED 		QUANTITIES BY CHECKED	UNIT PROJECT NUMBER & PHASE 3600 08120002241	MATERIAL BINS OVERALL FLOOR PLAN	REVISION DATES (PRELIMINARY STAGE ONLY) 06-14-13 11-15-13

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3  
 DISREGARD PRINTS BEARING EARLIER REVISION DATES  
 EA 0R9700  
 27-MAR-2014 08:27  
 A3\_1.dgn

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	5730		27	106

*MRJ*  
 LICENSED ARCHITECT  
 DATE 11-15-13

3-24-14  
 PLANS APPROVAL DATE

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**ACCESSIBILITY DESIGN APPROVAL STAMP**  
 DOT / DES / OTA

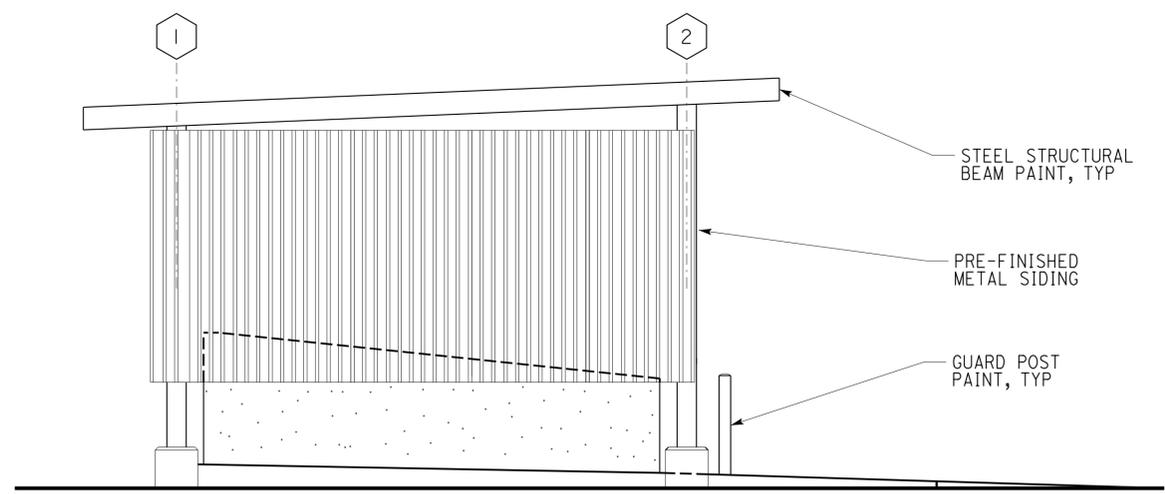
PROJECT ID  
**0812000224**

Reviewed by: *Y. A. Wang*  
 Y. A. WANG  
 Date: 11-21-13

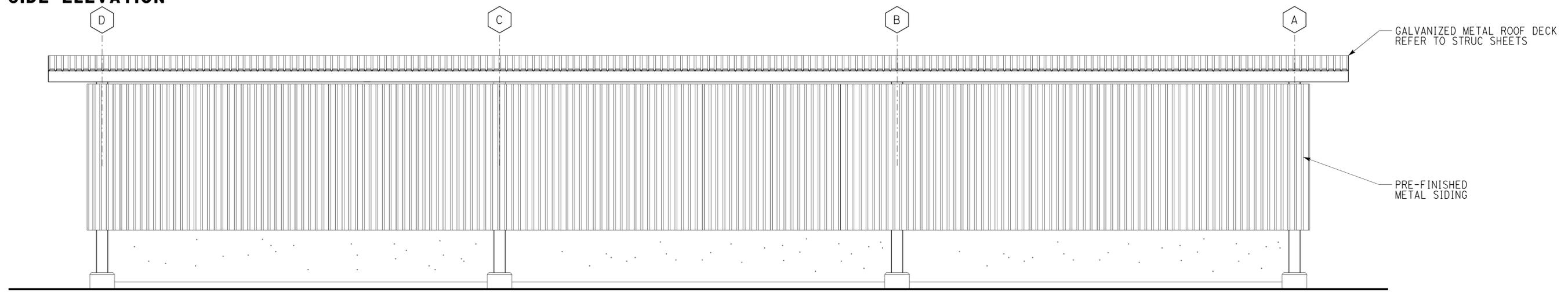
**CALIFORNIA STATE FIRE MARSHAL APPROVED**

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.

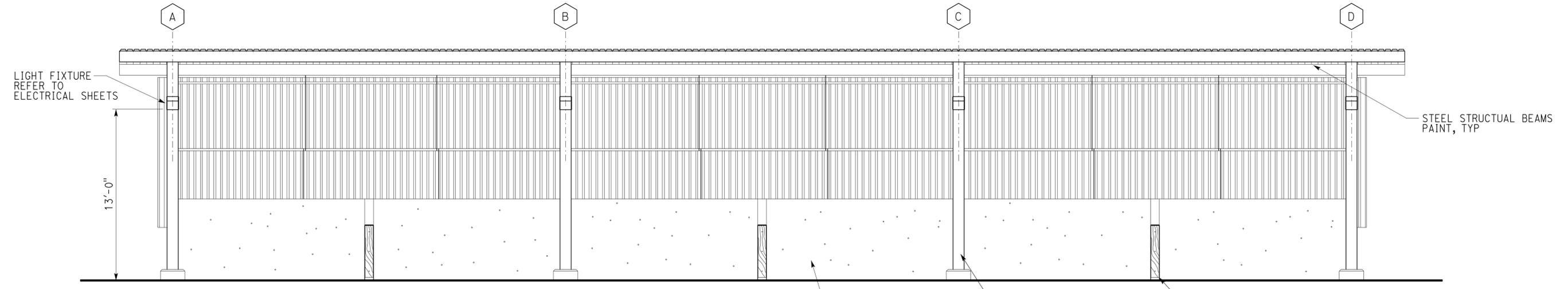
Reviewed by: *Aaron Greer*  
 AARON GREER  
 Approval date: 10-16-13



**SIDE ELEVATION**



**REAR ELEVATION**

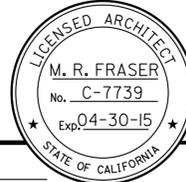


**FRONT/INTERIOR ELEVATION ELEVATIONS**  
 SCALE 1/4" = 1'-0"

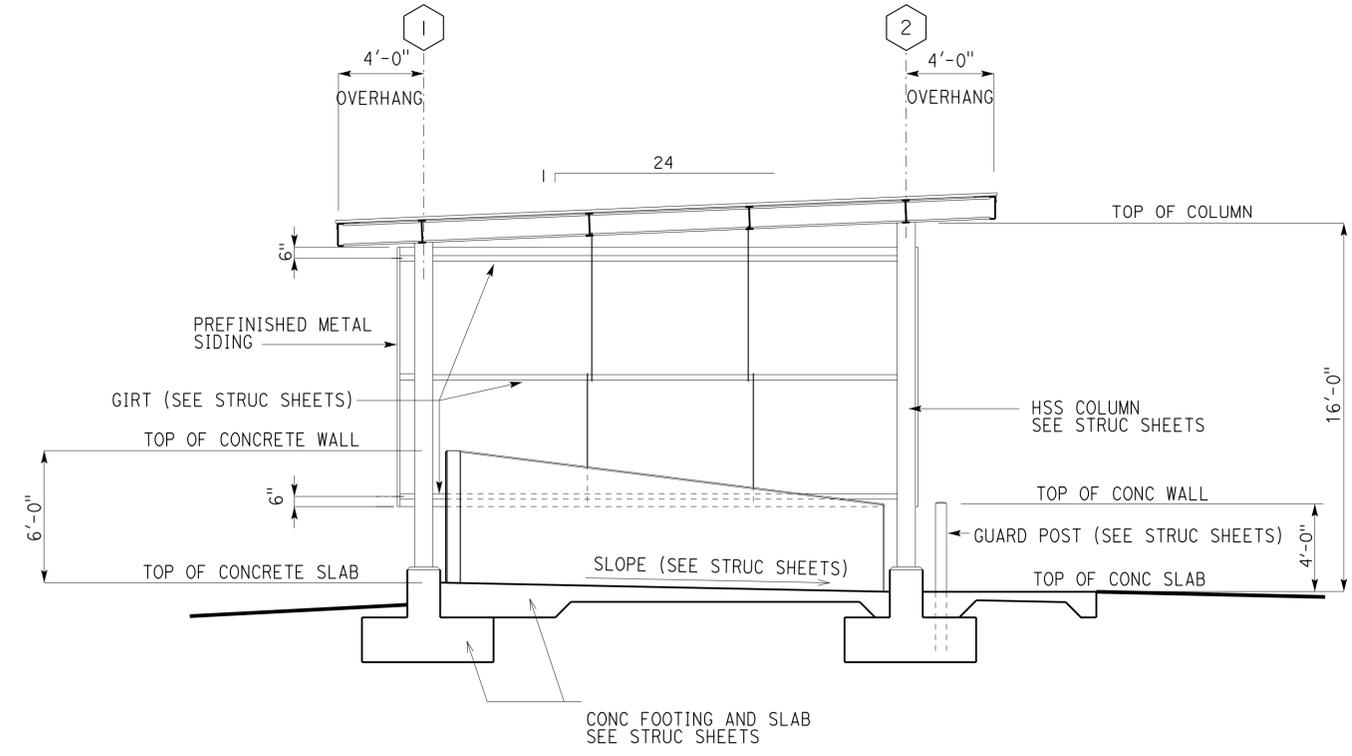
A3_2.dgn TAEMWW imperial Rev. 7/10 27-MAR-2014 08:27	DESIGN BY Martin R. Fraser	CHECKED <i>Donald E. Olvey</i>	<b>STATE OF CALIFORNIA</b> <b>DEPARTMENT OF TRANSPORTATION</b>	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 56M5730 POST MILE X	<b>CORONA MAINTENANCE STATION</b> MATERIAL BINS ELEVATIONS	SHEET OF <b>A3-2</b>
	DETAILS BY Martin R. Fraser	CHECKED <i>Donald E. Olvey</i>		UNIT PROJECT NUMBER & PHASE 3600 08120002241 EA 0R9700	DISREGARD PRINTS BEARING EARLIER REVISION DATES REVISION DATES (PRELIMINARY STAGE ONLY) 06-14-13 11-15-13		SHEET OF X X

27-MAR-2014 08:27

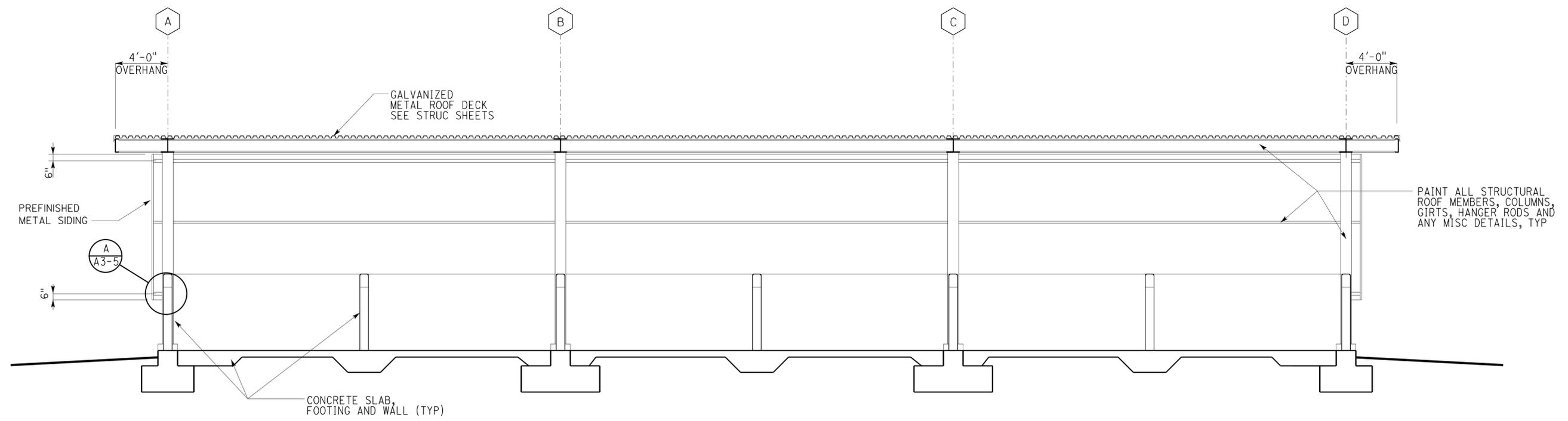
DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	5730		28	106

  
 LICENSED ARCHITECT DATE 11-15-13  


3-24-14  
 PLANS APPROVAL DATE  
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**A SECTION**  
SCALE 1/4" = 1'-0"



**B SECTION**  
SCALE 1/4" = 1'-0"

A3_3.dgn TAEMWW imperial Rev. 7/10 28-MAR-2014 08:00	DESIGN BY Martin R. Fraser	CHECKED <i>Donald E. Overy</i>	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 56M5730	<b>CORONA MAINTENANCE STATION</b>		SHEET
	DETAILS BY Martin R. Fraser	CHECKED <i>Donald E. Overy</i>		POST MILE X	MATERIAL BINS	SECTIONS		<b>A3-3</b>
	QUANTITIES BY	CHECKED	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3600 08120002241	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF X X

28-MAR-2014 08:00

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	5730		29	106

*MRJ*  
 LICENSED ARCHITECT  
 DATE 11-15-13

3-24-14  
 PLANS APPROVAL DATE

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**ACCESSIBILITY DESIGN APPROVAL STAMP**  
 DOT / DES / OTA  
 PROJECT ID: **0812000224**

Reviewed by: *Y. A. Wang*  
 Y. A. WANG  
 Date: 11-21-13

**CALIFORNIA STATE FIRE MARSHAL APPROVED**  
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Reviewed by: *Aaron Greer*  
 AARON GREER  
 Approval date: 10-16-13



**ROOF PLAN**

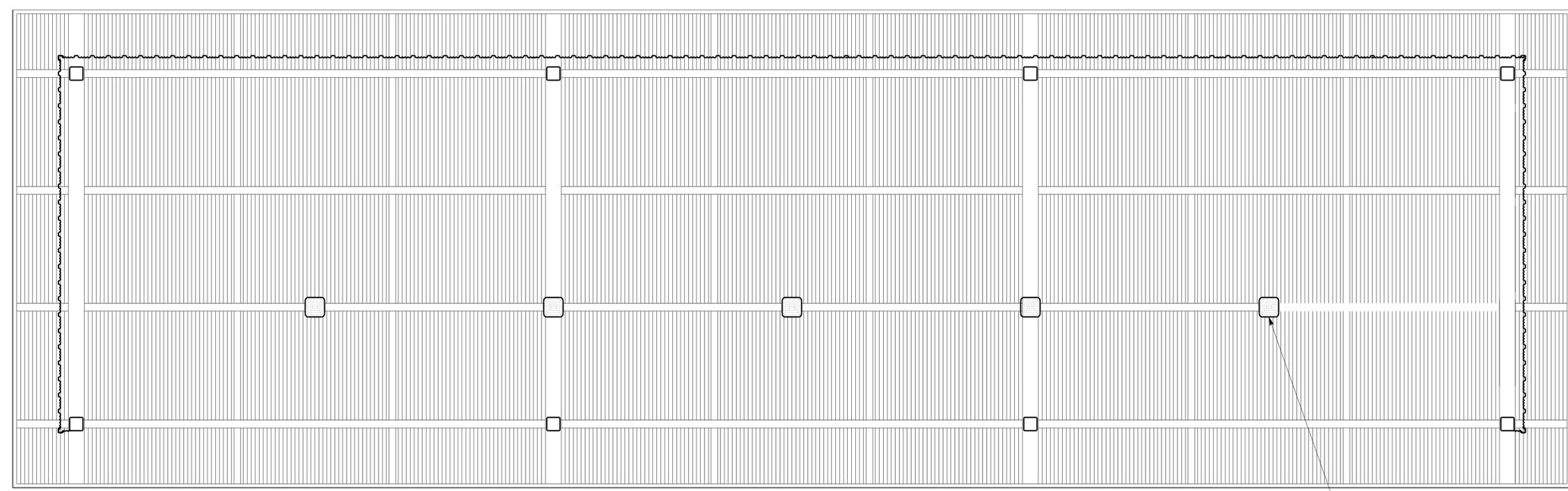
SCALE 1/4" = 1'-0"



GALVANIZED METAL ROOF DECK, REFER TO STRUCTURAL SHEETS

LEGEND

LIGHT FIXTURE



**CEILING PLAN**

SCALE 1/4" = 1'-0"



LIGHT FIXTURE REFER TO ELECT SHEETS, TYP

DESIGN	BY Martin R. Fraser	CHECKED <i>Donald E. Cheung</i>
DETAILS	BY Martin R. Fraser	CHECKED <i>Donald E. Cheung</i>
QUANTITIES	BY	CHECKED

**STATE OF CALIFORNIA**  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES  
 ARCHITECTURAL AND STRUCTURAL DESIGN

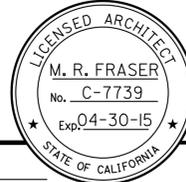
BRIDGE NO.	56M5730
POST MILE	X

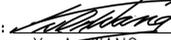
**CORONA MAINTENANCE STATION**

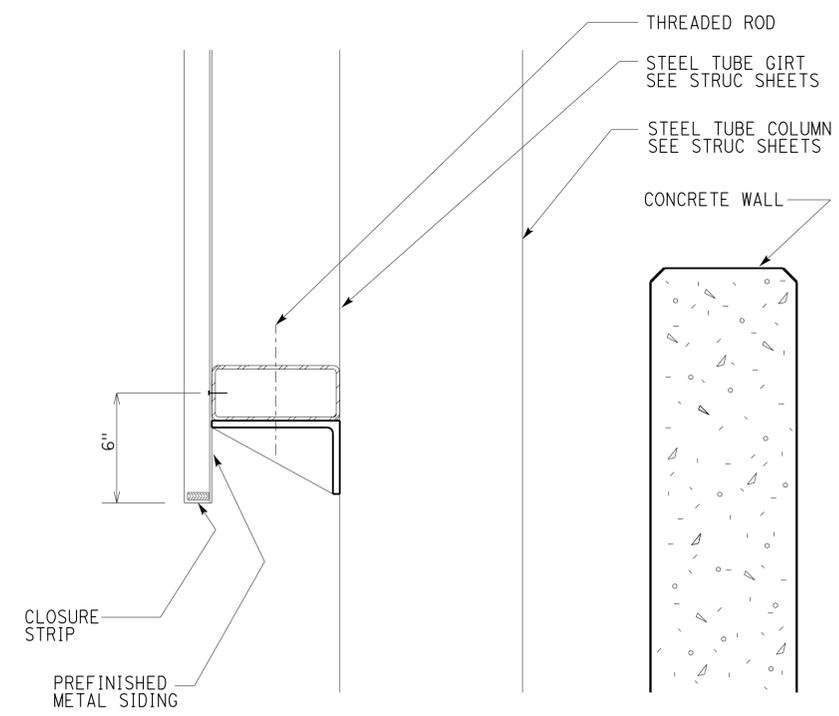
MATERIAL BINS

ROOF PLAN/CEILING PLAN

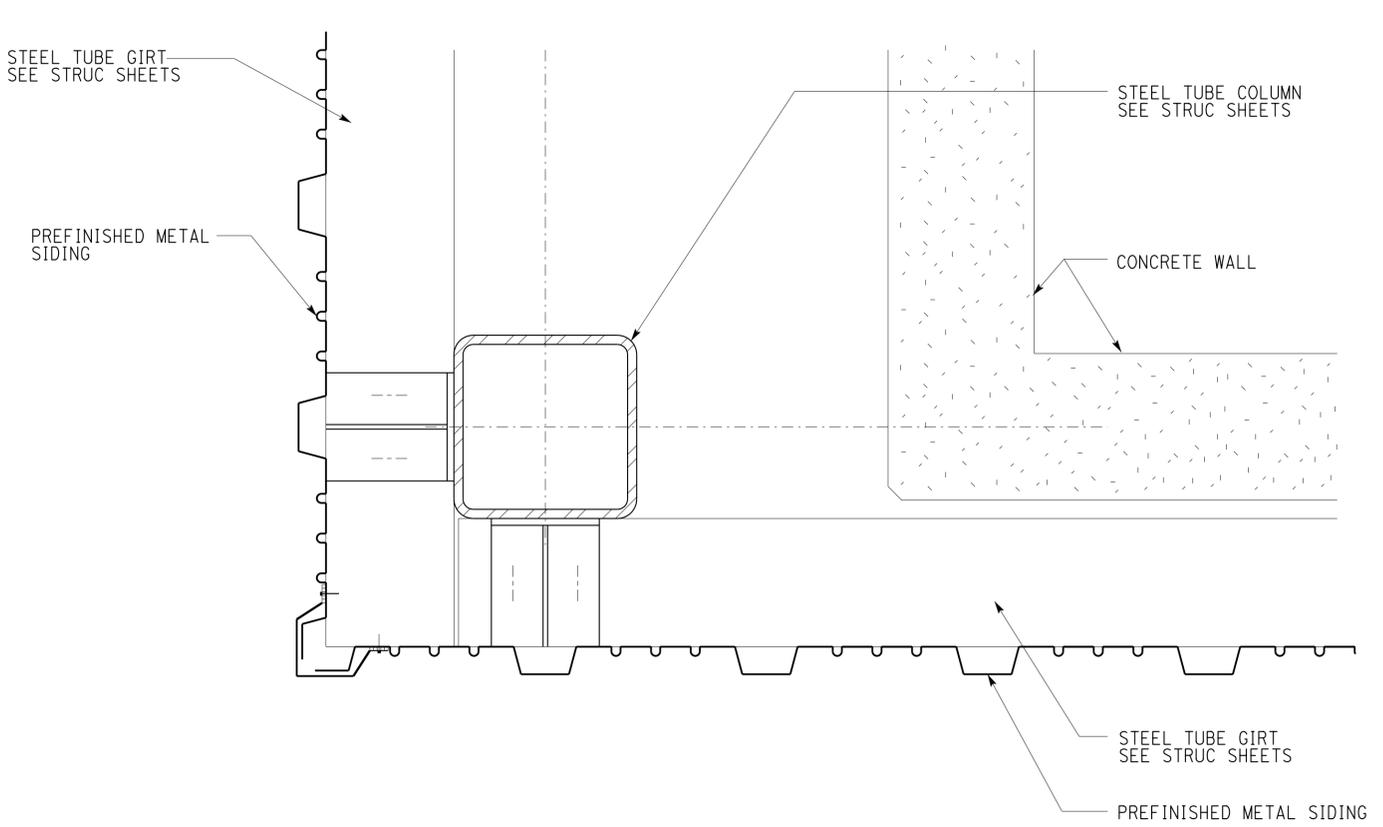
SHEET **A3-4**

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	5730		30	106
 LICENSED ARCHITECT			11-15-13 DATE		
3-24-14 PLANS APPROVAL DATE					
<i>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.</i>					

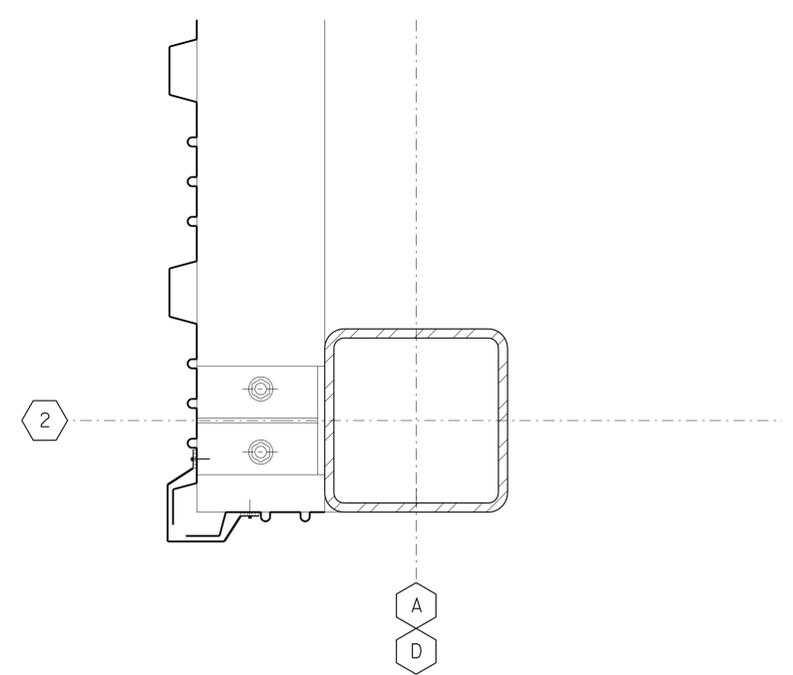
ACCESSIBILITY DESIGN APPROVAL STAMP DOT / DES / OTA PROJECT ID <b>0812000224</b>	CALIFORNIA STATE FIRE MARSHAL APPROVED Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
Reviewed by:  Y. A. WANG Date: 11-21-13	Reviewed by:  AARON GREER Approval date: 10-16-13



**A** **BOTTOM OF SIDING (SECTION VIEW)**  
 SCALE 2" = 1'-0" FOR TOP OF SIDING DETAIL SEE A3-6



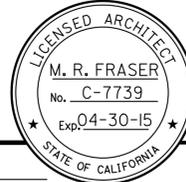
**B** **SIDING AT CORNER (PLAN VIEW)**  
 SCALE 2" = 1'-0"

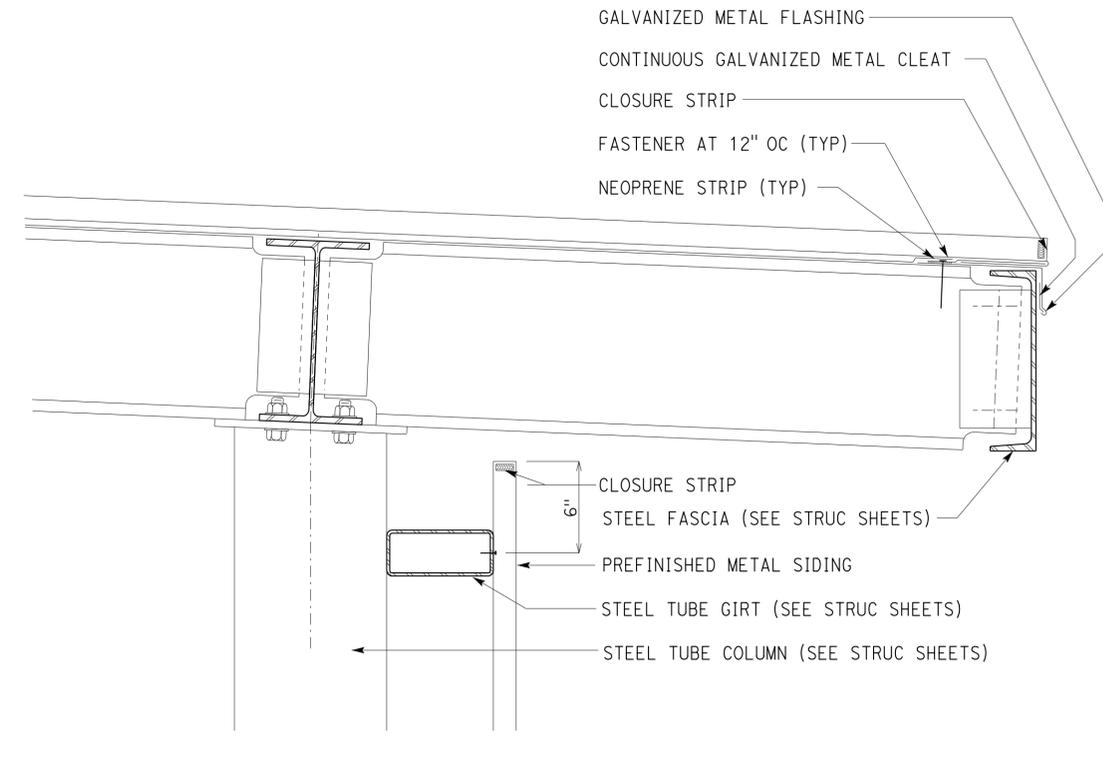
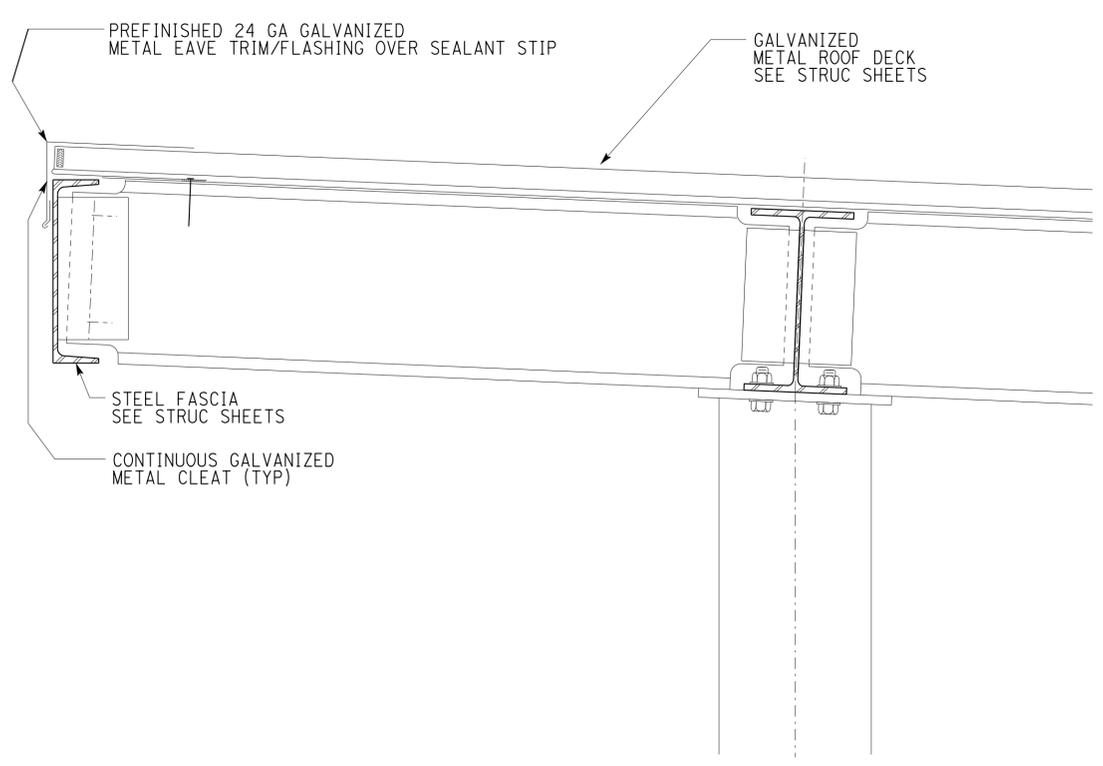


**C** **SIDING AT FRONT TWO COLUMNS**  
 SCALE 2" = 1'-0"

A3_5.dgn TAEMWW imperial Rev. 7/10 27-MAR-2014 06:59	DESIGN BY Martin R. Fraser CHECKED 	<b>STATE OF CALIFORNIA</b> <b>DEPARTMENT OF TRANSPORTATION</b>	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 56M5730 POST MILE X	<b>CORONA MAINTENANCE STATION</b> MATERIAL BINS		SHEET <b>A3-5</b>
	DETAILS BY Martin R. Fraser CHECKED 		QUANTITIES BY CHECKED	UNIT PROJECT NUMBER & PHASE 3600 08120002241	DISREGARD PRINTS BEARING EARLIER REVISION DATES →	REVISION DATES (PRELIMINARY STAGE ONLY) 06-14-13 11-15-13	SHEET OF X X

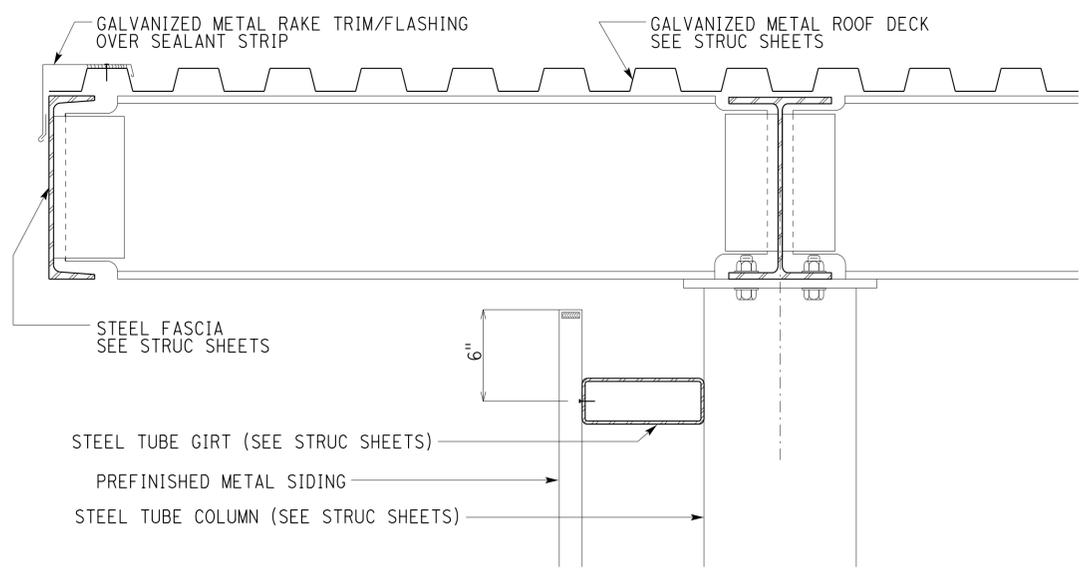
27-MAR-2014 06:59

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	5730		31	106
				11-15-13	
				DATE	
 LICENSED ARCHITECT					
					
3-24-14					
PLANS APPROVAL DATE					
<i>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.</i>					



**A CANOPY UPPER EAVE**  
SCALE 2" = 1'-0"

**B CANOPY LOWER EAVE**  
SCALE 2" = 1'-0"

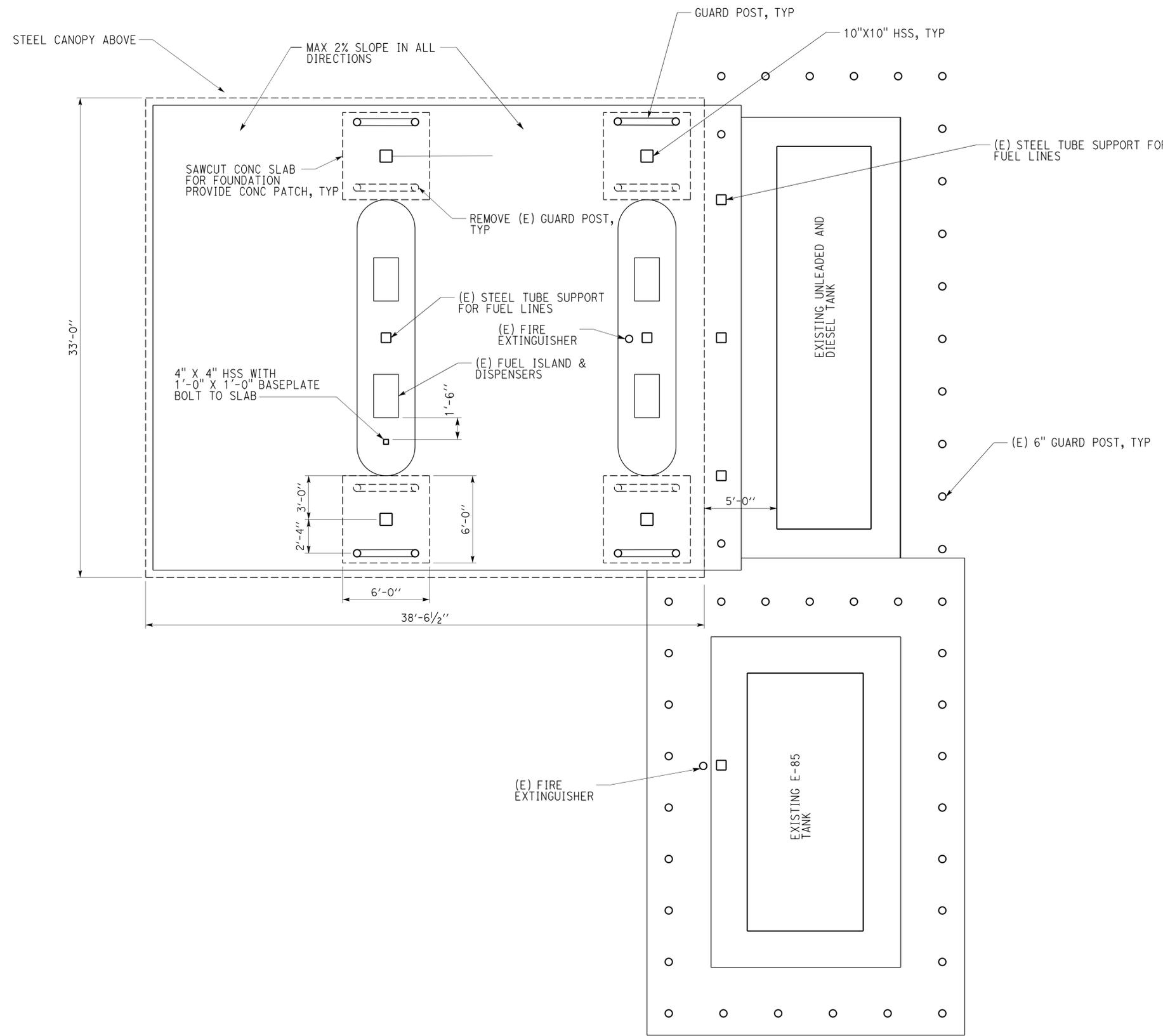


**C CANOPY RAKE**  
SCALE 2" = 1'-0"

ACCESSIBILITY DESIGN APPROVAL STAMP DOT / DES / OTA		CALIFORNIA STATE FIRE MARSHAL APPROVED	
PROJECT ID <b>0812000224</b>		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: Y. A. WANG Date: 11-21-13		Reviewed by: AARON GREER Approval date: 10-16-13	

A3_6.dgn TAEMWW imperial Rev. 7/10 27-MAR-2014 06:59	DESIGN BY Martin R. Fraser	CHECKED <i>Donald E. Overy</i>	<b>STATE OF CALIFORNIA</b> <b>DEPARTMENT OF TRANSPORTATION</b>	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 56M5730	<b>CORONA MAINTENANCE STATION</b>		SHEET
	DETAILS BY Martin R. Fraser	CHECKED <i>Donald E. Overy</i>		DEPARTMENT OF TRANSPORTATION	ARCHITECTURAL AND STRUCTURAL DESIGN	POST MILE X	ROOF DETAILS	
	QUANTITIES BY	CHECKED	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT PROJECT NUMBER & PHASE 3600 08120002241	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF
			0 1 2 3	EA 0R9700	06-14-13 11-15-13			X X

27-MAR-2014 06:59



DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	5730		32	106

MRJ  
 LICENSED ARCHITECT  
 DATE 11-15-13  
 No. C-7739  
 Exp. 04-30-15  
 STATE OF CALIFORNIA

3-24-14  
 PLANS APPROVAL DATE  
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<b>ACCESSIBILITY DESIGN APPROVAL STAMP</b> DOT / DES / OTA PROJECT ID <b>0812000224</b> Reviewed by: <i>[Signature]</i> Y. A. WANG Date: 11-21-13	<b>CALIFORNIA STATE FIRE MARSHAL APPROVED</b> 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> AARON GREER Approval date: 10-16-13
---	--

NOTE:  
THERE IS NO CARD READER AT THIS FACILITY.

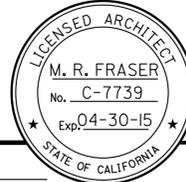
**OVERALL FLOOR PLAN - FUEL ISLAND CANOPY**  
SCALE 1/4" = 1'-0"

A4_1.dgn TAEMWW imperial Rev. 7/10 28-MAR-2014 08:00	DESIGN BY Martin R. Fraser	CHECKED <i>Donald E. Overy</i>	<b>STATE OF CALIFORNIA</b> <b>DEPARTMENT OF TRANSPORTATION</b>	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 56M5730	<b>CORONA MAINTENANCE STATION</b> OVERALL FLOOR PLAN	SHEET OF
	DETAILS BY Martin R. Fraser	CHECKED <i>Donald E. Overy</i>		ARCHITECTURAL AND STRUCTURAL DESIGN	POST MILE X		FUEL ISLAND CANOPY
	QUANTITIES BY	CHECKED	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT PROJECT NUMBER & PHASE 3600 08120002241	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
			0 1 2 3	EA 0R9700	06-14-13 11-15-13		X X

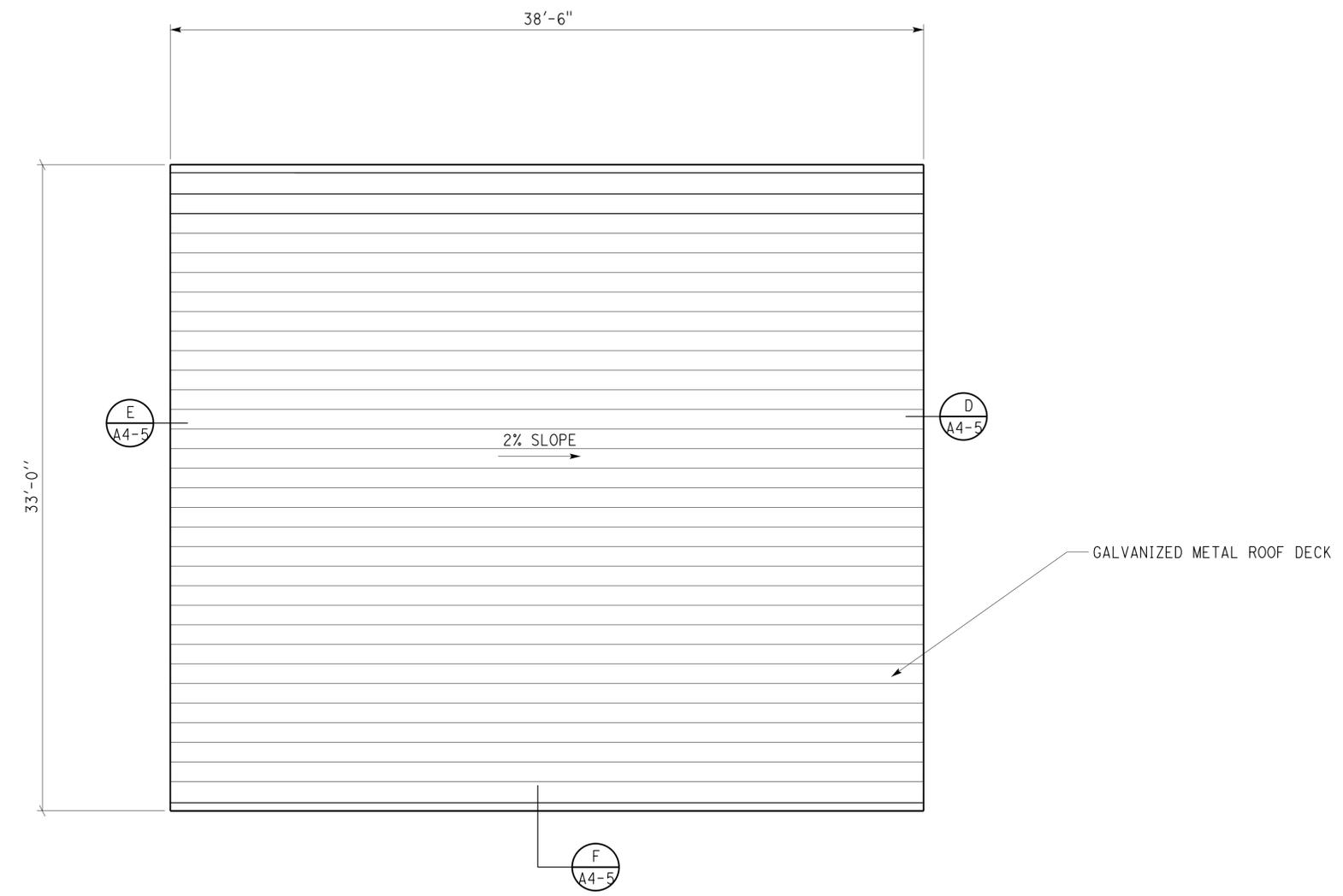
28-MAR-2014 08:00

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	5730		33	106

  
 LICENSED ARCHITECT  
 DATE 11-15-13

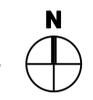


3-24-14  
 PLANS APPROVAL DATE  
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<b>ACCESSIBILITY DESIGN APPROVAL STAMP</b> DOT / DES / OTA PROJECT ID <b>0812000224</b> Reviewed by:  Y. A. WANG Date: 11-21-13	<b>CALIFORNIA STATE FIRE MARSHAL APPROVED</b> Approval of this plan does not authorize 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:  AARON GREER Approval date: 10-16-13
--	---

**ROOF PLAN**  
SCALE 1/4" = 1'-0"



A4_2.dgn TAEMWW imperial Rev. 7/10 28-MAR-2014 12:14	DESIGN BY Martin R. Fraser	CHECKED 	<b>STATE OF CALIFORNIA</b> <b>DEPARTMENT OF TRANSPORTATION</b>	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 56M5730	<b>CORONA MAINTENANCE STATION</b> FUEL ISLAND CANOPY	SHEET OF <b>A4-2</b>
	DETAILS BY Martin R. Fraser	CHECKED 		ARCHITECTURAL AND STRUCTURAL DESIGN	POST MILE X		
	QUANTITIES BY	CHECKED		PROJECT NUMBER & PHASE 3600 08120002241	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 06-14-13 11-15-13	SHEET OF X X

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

0 1 2 3

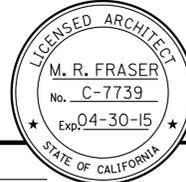
EA OR9700

A4\_2.dgn

28-MAR-2014 12:14

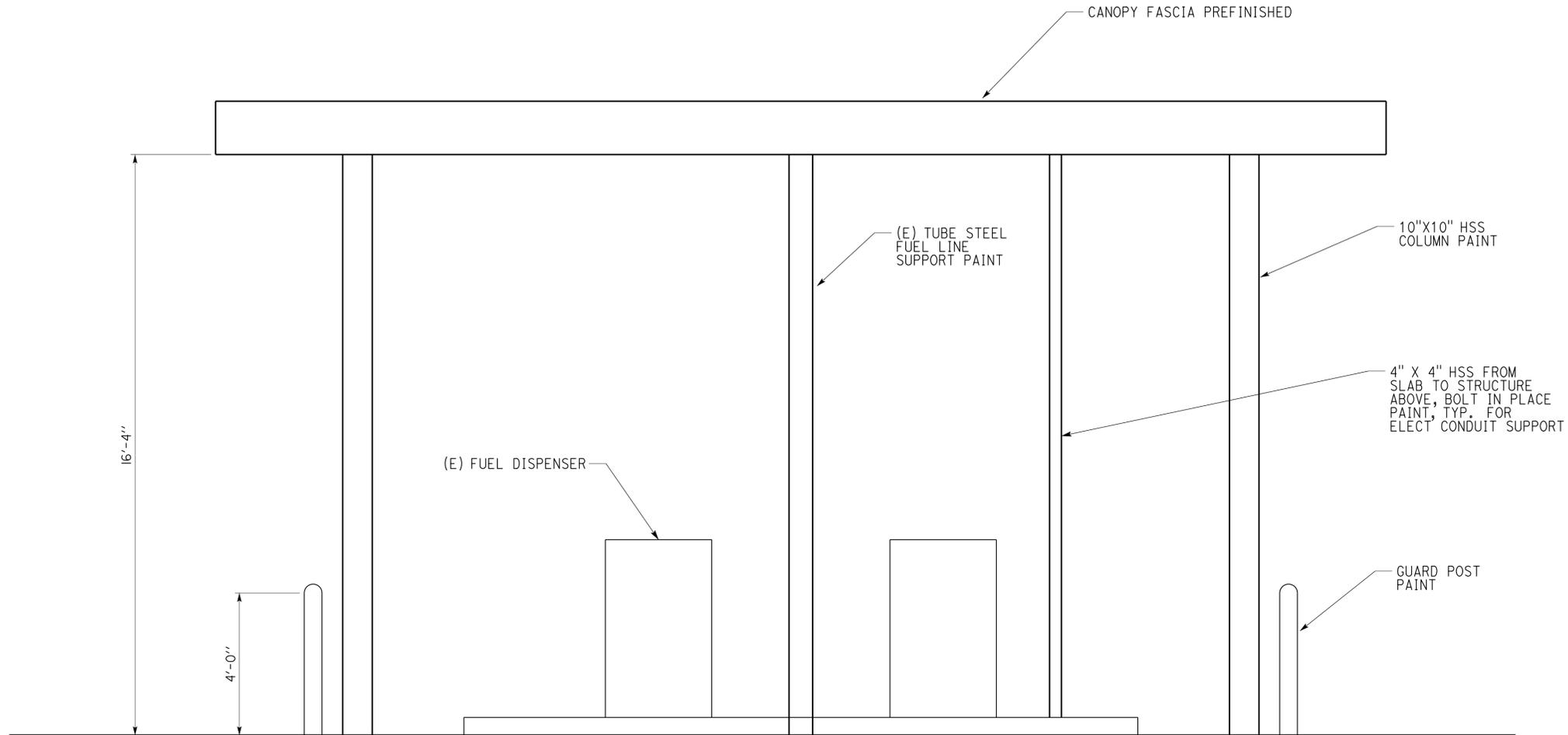
DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	5730		34	106

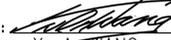
  
 LICENSED ARCHITECT DATE 11-15-13



3-24-14  
 PLANS APPROVAL DATE

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<b>ACCESSIBILITY DESIGN APPROVAL STAMP</b> DOT / DES / OTA PROJECT ID <b>0812000224</b> Reviewed by:  Y. A. WANG Date: 11-21-13	<b>CALIFORNIA STATE FIRE MARSHAL APPROVED</b> 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:  AARON GREER Approval date: 10-16-13
--	---

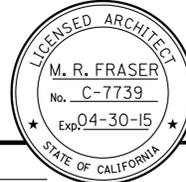
**SIDE ELEVATION**  
SCALE 1/2" = 1'-0"

A4_3.dgn TAEMWW imperial Rev. 7/10 27-MAR-2014 08:54	DESIGN BY Martin R. Fraser	CHECKED 	<b>STATE OF CALIFORNIA</b> <b>DEPARTMENT OF TRANSPORTATION</b>	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 56M5730	<b>CORONA MAINTENANCE STATION</b> FUEL ISLAND CANOPY	SHEET OF <b>A4-3</b> X X
	DETAILS BY Martin R. Fraser	CHECKED 		ARCHITECTURAL AND STRUCTURAL DESIGN	POST MILE X		
	QUANTITIES BY	CHECKED	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT PROJECT NUMBER & PHASE 3600 08120002241	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	
			0 1 2 3	EA 0R9700	06-14-13 11-15-13		

27-MAR-2014 08:54

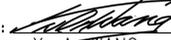
DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	5730		35	106

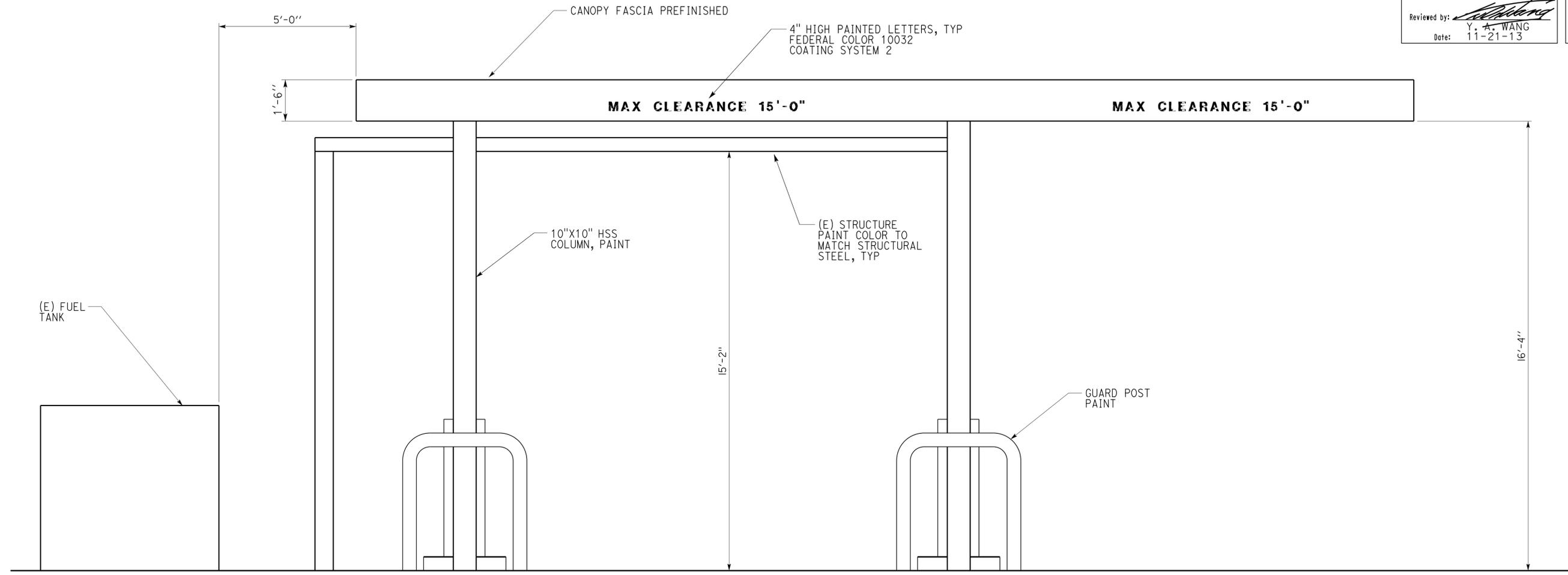
  
 LICENSED ARCHITECT DATE 11-15-13



3-24-14  
 PLANS APPROVAL DATE

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<b>ACCESSIBILITY DESIGN APPROVAL STAMP</b> DOT / DES / OTA PROJECT ID <b>0812000224</b> Reviewed by:  Date: 11-21-13	<b>CALIFORNIA STATE FIRE MARSHAL APPROVED</b> 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:  Approval date: 10-16-13
--	--



**ELEVATION**

SCALE 1/2" = 1'-0"

A4_4.dgn TAEMWW imperial Rev. 7/10 27-MAR-2014 08:54	DESIGN BY Martin R. Fraser CHECKED 	<b>STATE OF CALIFORNIA</b> <b>DEPARTMENT OF TRANSPORTATION</b>	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 56M5730 POST MILE X	<b>CORONA MAINTENANCE STATION</b> FUEL ISLAND CANOPY	SHEET OF <b>A4-4</b>
	DETAILS BY Martin R. Fraser CHECKED 		QUANTITIES BY CHECKED	UNIT PROJECT NUMBER & PHASE 3600 08120002241	DISREGARD PRINTS BEARING EARLIER REVISION DATES REVISION DATES (PRELIMINARY STAGE ONLY) 06-14-13 11-15-13	SHEET OF X X

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3  
 EA OR9700

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	5730		36	106

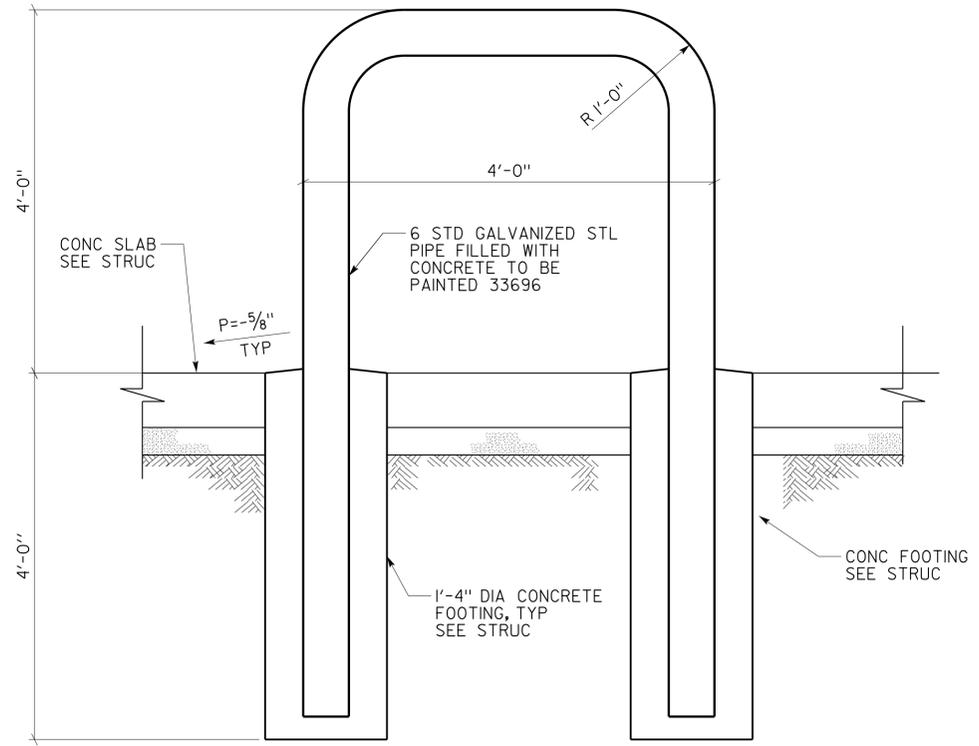
  

<i>MRJ</i>		11-15-13
LICENSED ARCHITECT	DATE	

3-24-14	
PLANS APPROVAL DATE	

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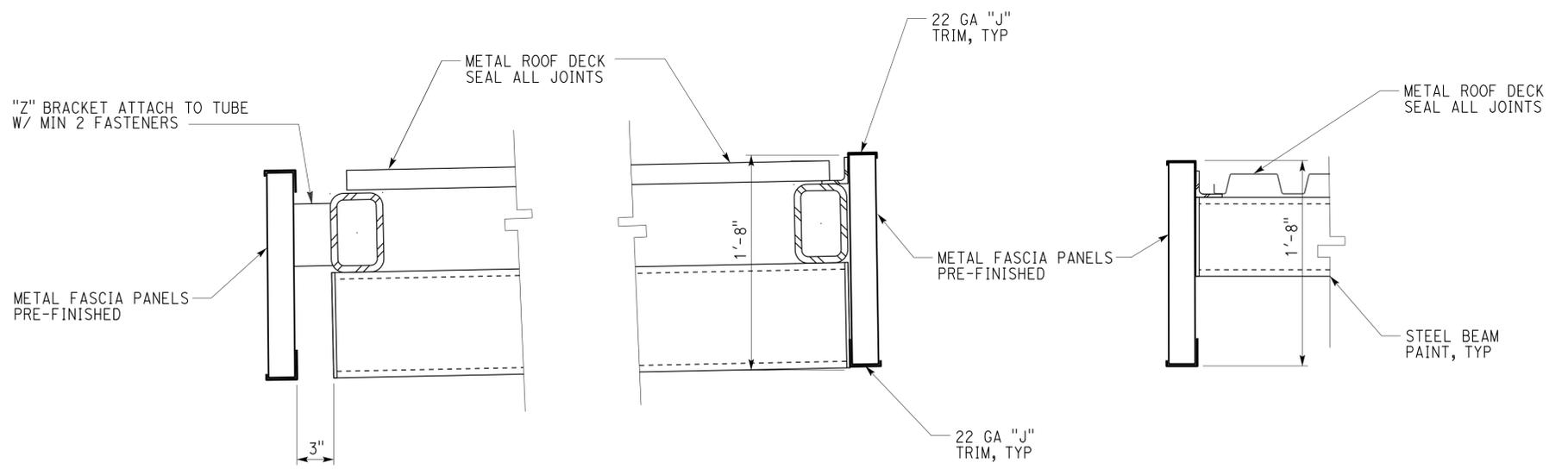
**A** **GUARD POST DETAIL**  
SCALE 1" = 1'-0"

Note:  
Sign must be 16 GA baked enamel steel with red letters on white background. Letters must be 3/4" in height. Sign must be fastened to angle bars with at least (3) mechanical fasteners on each side. Adhesive must not be used. Limit text placement within of 2 1/2" side margins as shown on plans. Sign must conform with 2010 CBC sections 1117B.5.2 thru 1117 B.5.4.

- |  |
|--|
| 1. NO SMOKING.   |
| 2. SHUT OFF MOTOR.   |
| 3. DISCHARGE YOUR STATIC ELECTRICITY BEFORE FUELING BY TOUCHING A METAL SURFACE AWAY FROM THE NOZZLE.    |
| 4. TO PREVENT STATIC CHARGE, DO NOT REENTER YOUR VEHICLE WHILE GASOLINE IS PUMPING.                      |
| 5. IF A FIRE STARTS, DO NOT REMOVE NOZZLE-BACK AWAY IMMEDIATELY.   |
| 6. IT IS UNLAWFUL AND DANGEROUS TO DISPENSE GASOLINE INTO UNAPPROVED CONTAINERS.                         |
| 7. NO FILLING OF PORTABLE CONTAINERS IN OR ON A MOTOR VEHICLE. PLACE CONTAINER ON GROUND BEFORE FILLING. |

**C** **WARNING SIGNS**  
SCALE 1/2" = 1'-0"

<b>ACCESSIBILITY DESIGN APPROVAL STAMP</b> DOT / DES / OTA PROJECT ID <b>0812000224</b>	<b>CALIFORNIA STATE FIRE MARSHAL APPROVED</b> 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>Y. A. Wang</i> Y. A. WANG Date: 11-21-13	Reviewed by: <i>Aaron Greer</i> AARON GREER Approval date: 10-16-13



**B** **NOT USED**

**D** **EAVE DETAIL**  
NO SCALE

**E** **EAVE DETAIL**  
NO SCALE

**F** **RAKE DETAIL**  
NO SCALE

A4_5.dgn TAEMWW imperial Rev. 7/10 28-MAR-2014 12:14	DESIGN BY Martin R. Fraser	CHECKED <i>Donald E. Overy</i>	<b>STATE OF CALIFORNIA</b> <b>DEPARTMENT OF TRANSPORTATION</b>	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 56M5730	<b>CORONA MAINTENANCE STATION</b> FUEL ISLAND CANOPY	SHEET OF
	DETAILS BY Martin R. Fraser	CHECKED <i>Donald E. Overy</i>		UNIT PROJECT NUMBER & PHASE 3600 08120002241	POST MILE X DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY) 06-14-13 11-15-13

28-MAR-2014 12:14

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	5730		37	106

*Tahir Rashid*  
 REGISTERED CIVIL ENGINEER  
 No. 61932  
 Exp. 9-30-15  
 CIVIL  
 STATE OF CALIFORNIA

11-15-2013  
 DATE

3-24-14  
 PLANS APPROVAL DATE

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### ABBREVIATIONS

AAD	ADHESIVE ANCHORAGE DEVICE	HD	HOLDOWN
AB	ANCHOR BOLT	Hex	HEXAGON
AC	ASPHALT CONCRETE	Horiz	HORIZONTAL
Alt	ALTERNATE	HSB	HIGH STRENGTH BOLT
APA	AMERICAN PLYWOOD ASSOCIATION	HSS	HOLLOW STRUCTURAL SECTION
APC	ALTERNATIVE PIPE CULVERT	IBC	INTERNATIONAL BUILDING CODE
Bldg	BUILDING	J+	JOINT
Blkg	BLOCKING	LOL	LAYOUT LINE
BN	BOUNDARY NAILING	LVL	LAMINATED VENEER LUMBER
Btm	BOTTOM	m	METER
CB	CARRIAGE BOLT	Max	MAXIMUM
CIDH	CAST IN DRILLED HOLE	MEA	MECHANICAL EXPANSION ANCHOR
CJ	CONTROL JOINT	Mech	MECHANICAL
Clr	CLEAR	Mfr	MANUFACTURER
CMU	CONCRETE MASONRY UNIT	mm	MILLIMETER
Conc	CONCRETE	Min	MINIMUM
Const	CONSTRUCTION	Misc	MISCELLANEOUS
Cont	CONTINUOUS	MIW	MALLEABLE IRON WASHER
CP	COMPLETE PENETRATION WELD	OC	ON CENTER
Dbl	DOUBLE	OG	ORIGINAL GRADE
DF	DOUGLAS FIR	OH	OPPOSITE HAND
Dia	DIAMETER	Opt	OPTIONAL
DIP	DUSTILE IRON PIPE	P	PITCH
DN	DIAMETER NOMINAL	PDF	POWER DRIVEN FASTENER
do	DITTO	Plwd	PLAWOOD
(E)	EXISTING	PT	PRESSURE TREATED
Ea	EACH	PW	PUDDLE WELD
EL	ELEVATION	PWB	PREFABRICATED WOOD I BEAM
Elec	ELECTRICAL	RCP	REINFORCED CONCRETE PIPE
Embed	EMBEDMENT	Reinf	REINFORCED, REINFORCING
EN	EDGE NAIL	Req'd	REQUIRED
Eq	EQUAL	SDSTS	SELF DRILL, SELF TAP SCREW
Exp	EXPANSION	Sim	SIMILAR
FDGM	FREE DRAINING GRANULAR MATERIAL	SPS	STRUCTURAL PLYWOOD SHEATHING
FG	FINISH GRADE	Sq	SQUARE
FL	FLOW LINE	Stagg	STAGGERED
Fir	FLOOR	Std	STANDARD
FN	FACE (FIELD) NAIL	SW	STUD WELD
FOC	FACE OF CONCRETE	Sym	SYMMETRICAL
FOM	FACE OF MASONRY	T&G	TONGUE-AND-GROOVE
FOS	FACE OF STUD	TN	TOE NAIL
Ftg	FOOTING	TS	TUBE STEEL
Ga	GAGE	Typ	TYPICAL
Galv	GALVANIZED	UON	UNLESS OTHERWISE NOTED
GLM	GLUE LAMINATED MEMBER	Ver+	VERTICAL
Gyp Bd	GYP SUM BOARD		

### SYMBOLS

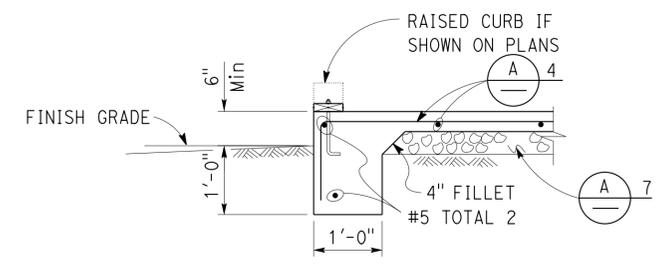
	BLOCKING IN SECTION OR ELEVATION		CMU WALL ON PLAN VIEWS
	CONTINUOUS MEMBER IN SECTION		DROPPED SLAB ON PLAN VIEWS
	END OF MEMBER		REINFORCED CONCRETE
	BEARING WALL		SAND
	SHEAR WALL		STRUCTURE BACKFILL
	LENGTH SHEARWALL SCHEDULE SYMBOL REFERENCE		STRUCTURE EXCAVATION
	GLUE LAMINATED MEMBER SECTION		ORIGINAL GROUND
	NORTH ARROW		LIMITS OF STRUCTURE BACKFILL (SHOWN ON PLAN VIEWS)
	PARTIAL SECTION CUT		FREE DRAINING GRANULAR MATERIAL
	FULL SECTION CUT		BOTTOM OF FOOTING
	REVISION CALLOUT		ELEVATION OR WORKING POINT
	GRID LINE INDICATOR		EXISTING FEATURES
	CENTER LINE		HOLDOWN, Typ (MANUFACTURERS ARE THOSE NOTED IN THE ORDER SHOWN)
	STATION LINE		FRAME CONNECTOR (MANUFACTURERS ARE THOSE NOTED IN THE ORDER SHOWN)
	STEEL PLATE		DETAIL NUMBER OR NOTE NUMBER ADDITIONAL REFERENCE (IF REQUIRED) SHEET NUMBER
	DIAMETER		
	SQUARE		

NOTE: SPECIFIC DETAILS OR NOTES ON OTHER SHEETS SHALL PREVAIL OVER STANDARD DETAILS AND NOTES ON THIS SHEET

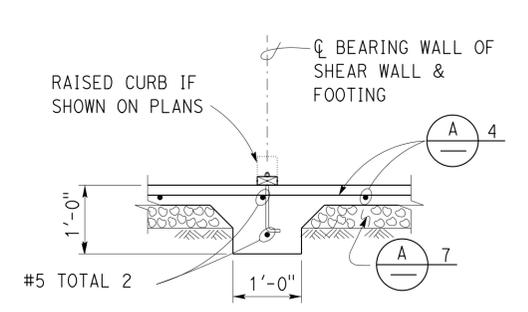
FILE NO. XS-25-0		DESIGN BY <i>Sean Samuel</i>		CHECKED <i>Joe Glendon</i>		APPROVED <i>R.C. Travis</i>		BRIDGE NO. 56M5730		CORONA MAINTENANCE STATION		SHEET ST-1	
DRAWING DATE 1-04		DETAILS BY <i>Peter F. von Savoye, II</i>		CHECKED <i>Sean Samuel</i>		DESIGN SUPERVISOR		POST MILE		LEGEND			
SUBMITTED BY <i>Sean Samuel</i>		DESIGN ENGINEER						UNIT 3581		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	
TAEMWW Imperial Rev. 7/10				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		PROJECT NUMBER & PHASE 08120002241		EA 000000		1-16-04 04-27-12 08-24-12		SHEET OF	

27-MAR-2014 08:54 st0\_01.dgn

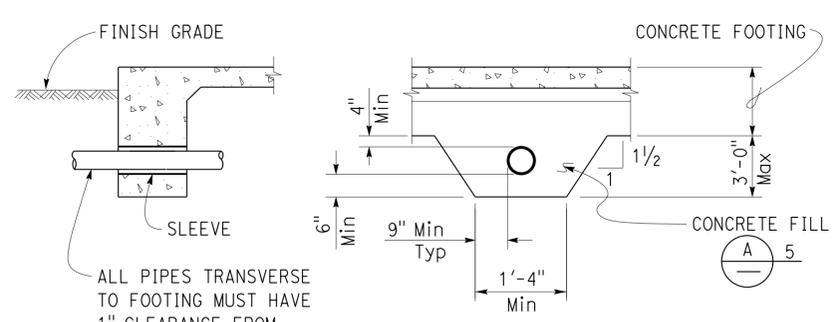
DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	5730		38	106
			11-15-2013	DATE	
3-24-14 PLANS APPROVAL DATE					
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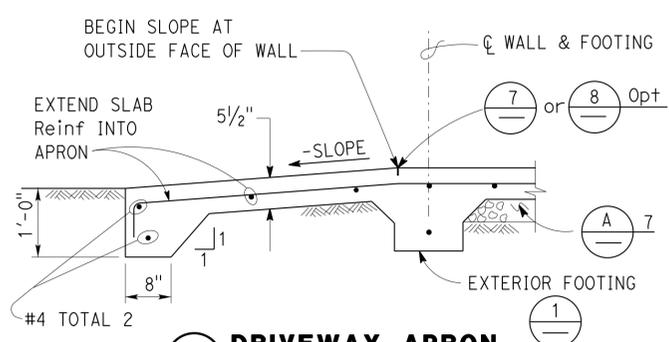
**1 EXTERIOR FOOTING**  
NO SCALE



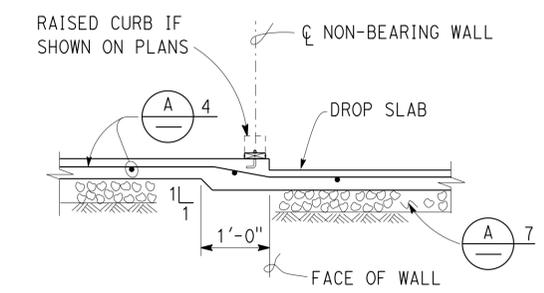
**5 INTERIOR FOOTING**  
NO SCALE



**9 PIPE DETAILS THROUGH FOOTING**  
NO SCALE



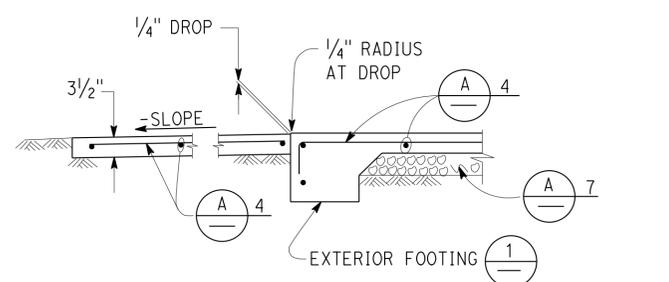
**2 DRIVEWAY APRON**  
NO SCALE



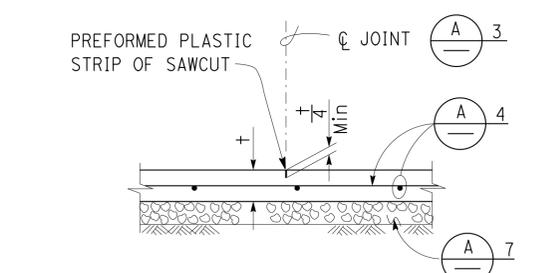
**6 DROP SLAB AT NON-BEARING WALL**  
NO SCALE

NOTE:  
ALL PIPES TRANSVERSE TO FOOTING MUST HAVE 1" CLEARANCE FROM SLEEVE ALL AROUND

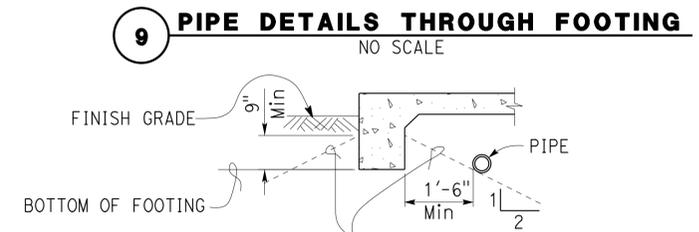
NOTE:  
No Pipes Permitted beneath Interior or Exterior Isolated Footing.



**3 WALKWAY APRON**  
NO SCALE



**7 CONTROL JOINT**  
NO SCALE



NOTE:  
NO DIGGING FOR PIPE TRENCH PARALLEL TO FOOTING BELOW THESE LINES, EXTERIOR FOOTING SHOWN, INTERIOR OR EXTERIOR ISOLATED FOOTINGS ARE SIMILAR

**10 PIPE DETAILS PARALLEL TO FOOTING**  
NO SCALE

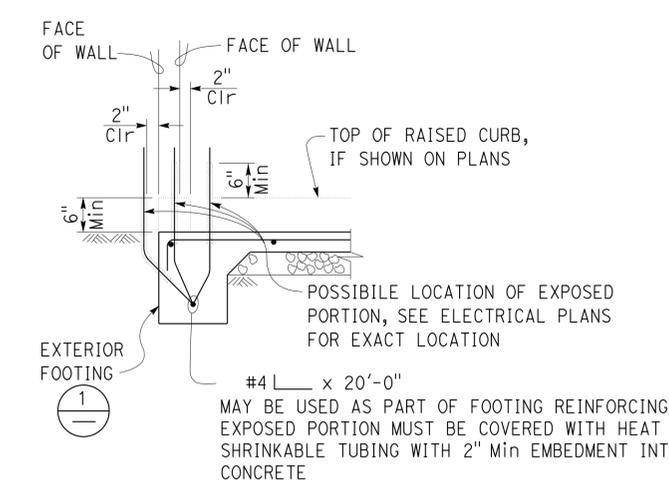
**A CONCRETE NOTES**

- The following minimum concrete cover must be provided for reinforcement.
 

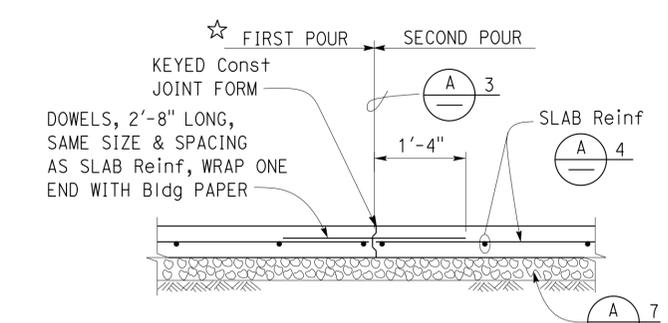
	Minimum Cover
a. Concrete cast against and permanently exposed to earth	3"
b. Concrete exposed to earth or weather but cast in forms:	
#6 thru #18 bars	2"
#5 bar and smaller, W31 or D31 Wire, and smaller	1 1/2"
c. Concrete not exposed to weather or in contact with ground:	
Slabs, Walls and Joists:	
#14 and #18 Bar	1 1/2"
#11 Bar and smaller	3/4"
Beams and Columns:	
Primary Reinforcement, Ties, Stirrups and Spirals	1 1/2"
- Splices in continuous reinforcement as in Walls, Wall Footings, etc. #8 or smaller must have a lap of 45 diameters and the splices in adjacent bars must not be less than 5'-0" apart.
 

Continuous Bars in spandrels, Wall Beams, etc. must lap Top Bars at center of span and Bottom Bars at supports.
- Contraction Joints and Control Joints must divide slab into areas not exceeding 25 square yards without reentrant corners and with length to width ratios not exceeding 1.5 to 1. Joint spacing must not exceed 15'-0".
- Slab Thickness (±) Reinforcement
 

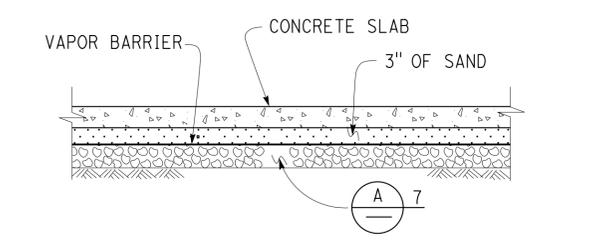
3 1/2"	#3 @ 18 Each way, place in center of Slab
5 1/2"	#4 @ 18 Each way, place in center of Slab
- Concrete fill is to be placed before Footing is poured. Make the same width as the Footing and the full width of the Pipe trench. Concrete fill not required for pipes less than 2" diameter for pipes more than 3'-0" below bottom of footing.
- See Mechanical and Architectural Plans for size and locations of pipe, vents, ducts and other similar openings. See Electrical Plans for conduits and outlet boxes in floors, walls, etc.
- Place 4" of free draining granular material under slabs.



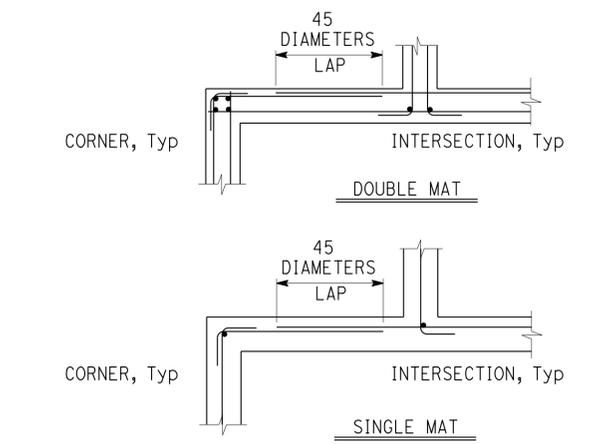
**4 GROUND BAR DETAIL**  
NO SCALE



**8 CONTRACTION JOINT**  
NO SCALE



**11 MOISTURE BARRIER**  
NO SCALE



**12 CORNER/INTERSECTION REINF SPLICE**  
NO SCALE

NOTE: SPECIFIC DETAILS OR NOTES ON OTHER SHEETS SHALL PREVAIL OVER STANDARD DETAILS AND NOTES ON THIS SHEET

FILE NO. XS-25-1	DESIGN BY <i>Sean Sandoz</i>	CHECKED BY <i>Lee G. ...</i>	APPROVED BY <i>R.C. ...</i>	STATE OF CALIFORNIA	DIVISION OF ENGINEERING SERVICES	BRIDGE NO.	CORONA MAINTENANCE STATION	SHEET ST-2
DRAWING DATE 1-04	DETAILS BY <i>Peter F. ...</i>	CHECKED BY <i>...</i>	DESIGN SUPERVISOR	DEPARTMENT OF TRANSPORTATION	ARCHITECTURAL AND STRUCTURAL DESIGN	POST MILE	CONCRETE STANDARD	
TAEMWW Imperial Rev. 7/10	SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT PROJECT NUMBER & PHASE 3581 08120002241	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF

# PROJECT DESIGN CRITERIA

The building work on this project has been designed to conform to the 2010 California Building Code (2009 IBC).

# DETAIL NOTES

## LOADS

**SEISMIC:** Occupancy Category = II  
 Importance Factor I = 1.0  
 Site Soil Class = D  
 $S_S = 1.570$        $S_{DS} = 1.047$   
 $S_I = 0.640$        $S_{DI} = 0.640$   
 Seismic Design Category = D  
**Seismic Force-Resisting System:**  
 Moment-Resisting Frame System  
North - South  
 Ordinary steel moment frames.  
 $R = 3.50$      $C_S = 0.299$   
 Moment-Resisting Frame System  
East - West  
 Ordinary steel moment frames.  
 $R = 3.50$      $C_S = 0.299$

**WIND:** Basic Wind Speed = 85 mph      I = 1.0  
 $y = 1.29$        $P_{G30} = \pm 13$   
 $K_{zt} = 1.0$

**LIVE LOAD:** Roof = 20 psf

- For Concrete see: "Concrete Standard"
- All bolts must be hex head machine bolts, with hex head nuts; unless otherwise noted.
- All lock washers must be helical spring lock washers.

## MATERIALS

**REINFORCED CONCRETE:** (Ultimate Strength Design) :  
 $f'_c = 3,000$  psi  
 $f_y = 60,000$  psi

**STRUCTURAL STEEL:** (Allowable Strength Design) :  
 Wide Flange       $F_y = 50$  ksi  
 Channels, Angles & Misc Shapes       $F_y = 36$  ksi  
 Plates       $F_y = 36$  ksi  
 Hollow Structural Section (HSS)       $F_y = 46$  ksi

**FOUNDATION:**  
 Soils report dated : N/A  
 Allowable Soil Pressure (DL + LL) : = 2,000 psf

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		39	106

*Tahir Rashid*  
 REGISTERED CIVIL ENGINEER      11-15-2013 DATE

**REGISTERED PROFESSIONAL ENGINEER**  
 Tahir Rashid  
 No. 61932  
 Exp. 9-30-15  
 CIVIL  
 STATE OF CALIFORNIA

3-24-14  
 PLANS APPROVAL DATE

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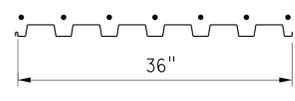
## A METAL/STEEL DECK NOTES

### METAL DECK MINIMUM SECTION PROPERTIES

Deck Type	Depth & Gage	Moment of Inertia	Positive Section Modulus	Negative Section Modulus	Minimum Yield Strength
Steel Deck	1 1/2" x 16 Ga	0.377 in <sup>4</sup> /ft	0.411 in <sup>3</sup> /ft	0.417 in <sup>3</sup> /ft	33 Ksi

NOTE:  
 Minimum 3 Span Condition

### WELDING SCHEDULE and METAL DECK PROFILE

Steel Deck Profile	1/2" Diameter Puddle Weld		Side Seam Weld	Diaphragm Shear Capacity
	Perpendicular Supports and Panel Ends	Parallel Supports	Side Laps	
	7 - Puddle Welds Per Support	12" OC	12" OC	2110 lb/ft

DESIGN BY Edgardo Isidro	CHECKED Tahir Rashid	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No. 56M5730	CORONA MAINTENANCE STATION		SHEET ST1-0		
				POST MILE	WASHRACK	DESIGN CRITERIA AND DETAIL NOTES			
				REVISION DATES (PRELIMINARY STAGE ONLY)					
DETAILS BY Aleksey Serin	CHECKED Edgardo Isidro	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3581 CONTRACT No.: 0R9701 PROJECT NUMBER & PHASE: 08120002241	DISREGARD PRINTS BEARING EARLIER REVISION DATES	03-14-09	08-24-12	06-12-13	06-13-13	SHEET OF

TAEWW Imperial - CCSC Rev. 01/13

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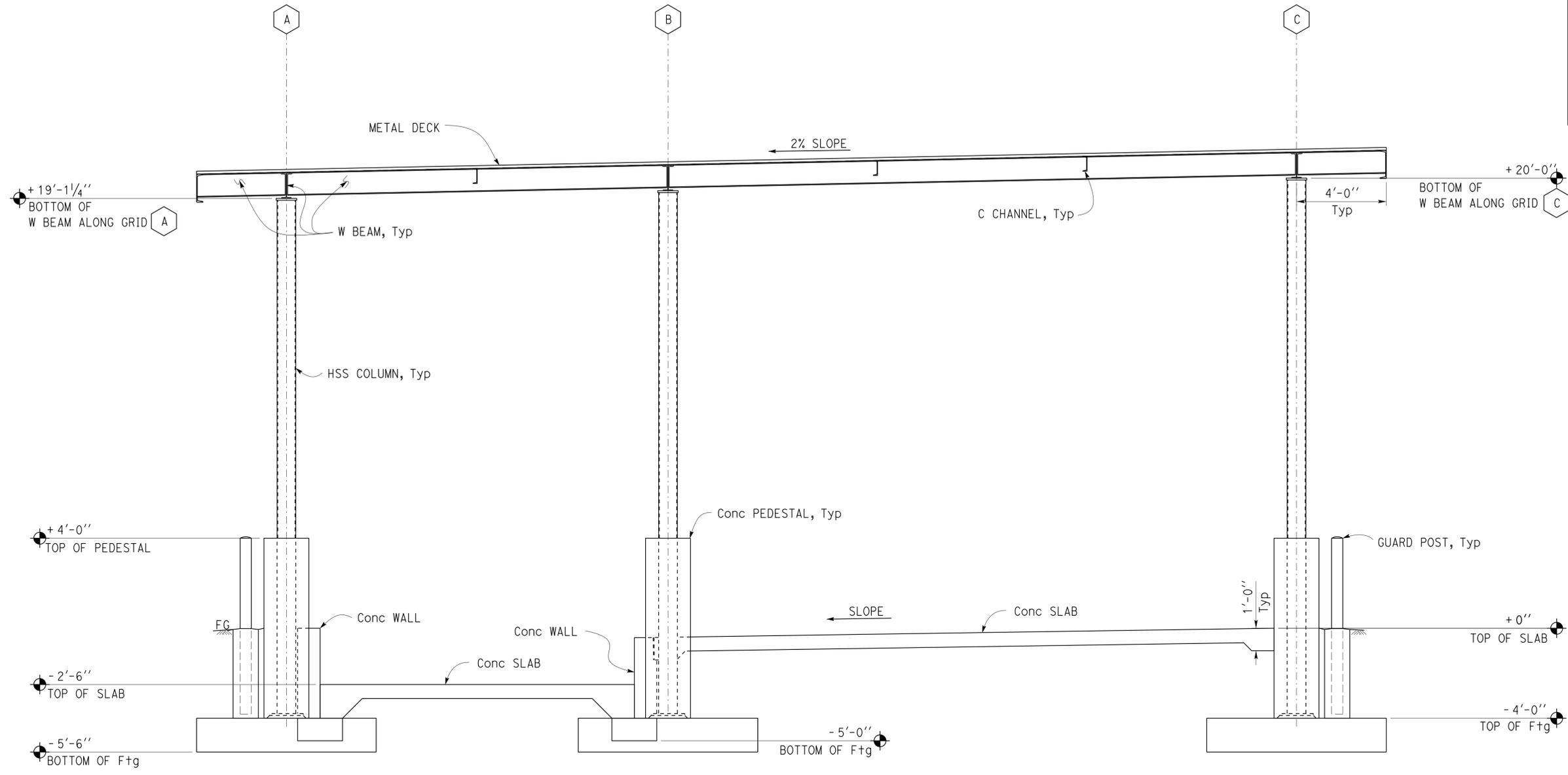
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08	Riv	5730		42	106

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1 MAIN SECTION  
 Scale 3/8" = 1' - 0"

DESIGN BY Edgardo Isidro CHECKED Tahir Rashid	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No. 56M5730	CORONA MAINTENANCE STATION		SHEET ST1-3
			POST MILE	VEHICLE RINSE FACILITY		
			REVISION DATES (PRELIMINARY STAGE ONLY)			SHEET
DETAILS BY Aleksey Serin CHECKED Edgardo Isidro	UNIT: 3581 CONTRACT No.: 0R9701 PROJECT NUMBER & PHASE: 08120002241	DISREGARD PRINTS BEARING EARLIER REVISION DATES	12-10-12	10-13-13	10-30-13	
QUANTITIES BY	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	D:\CADUser\Projects\dist_08\0812000224_Corona_ms\Expedit\ests1_03.dgn			

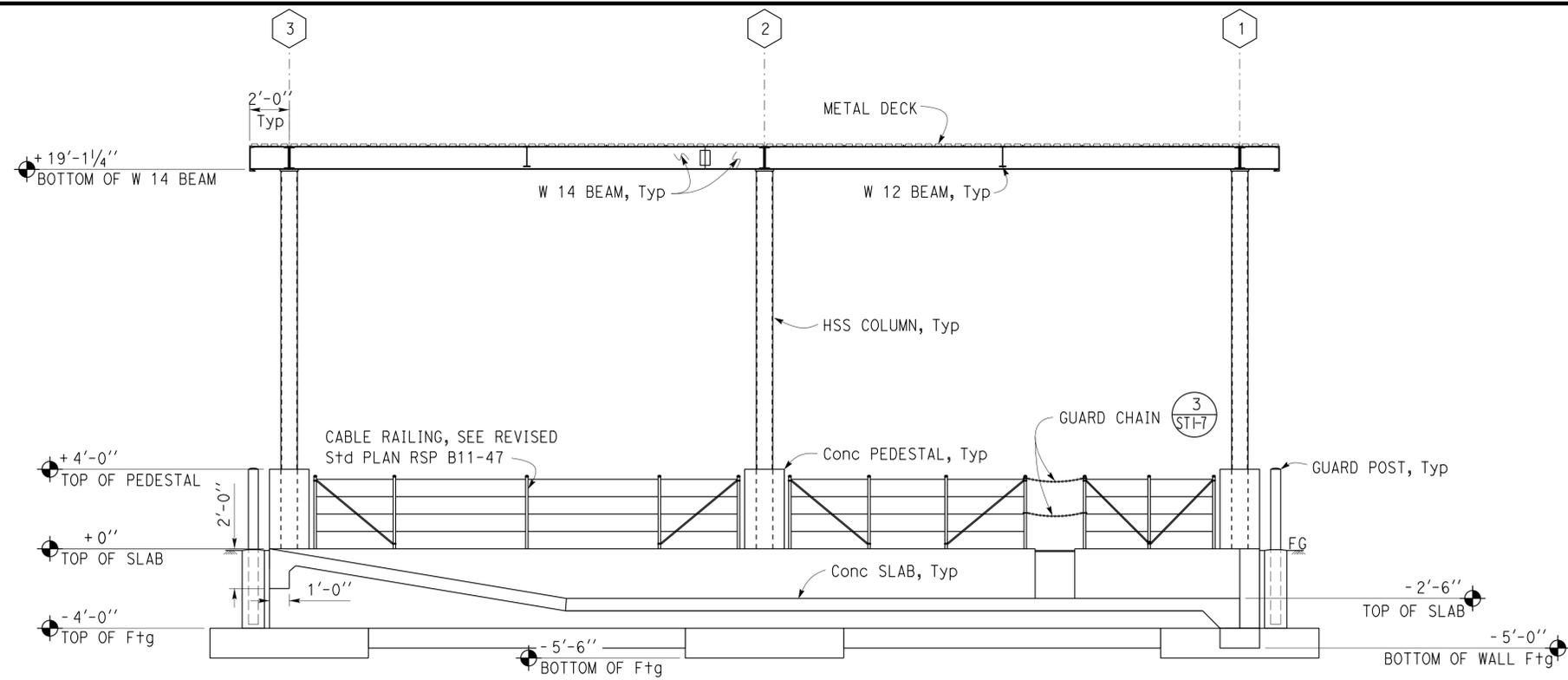
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08	Riv	5730		43	106

*Tahir Rashid*  
 REGISTERED CIVIL ENGINEER  
 11-15-2013  
 DATE

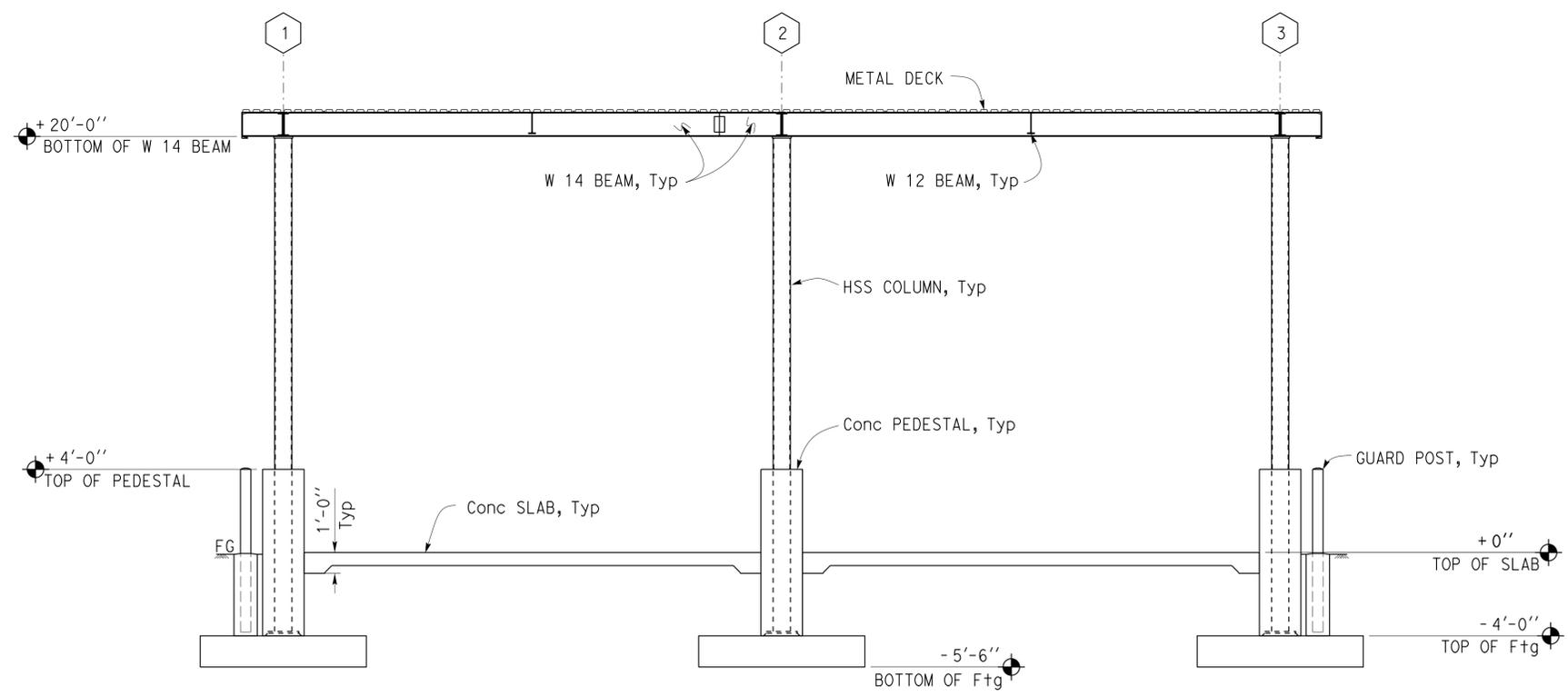
REGISTERED PROFESSIONAL ENGINEER  
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 STATE OF CALIFORNIA

3-24-14  
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**1 SECTION**  
 Scale 1/4" = 1' - 0"



**2 SECTION**  
 Scale 1/4" = 1' - 0"

DESIGN BY Edgardo Isidro	CHECKED Tahir Rashid	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No. 56M5730	CORONA MAINTENANCE STATION		SHEET ST1-4
				POST MILE	BUILDING SECTIONS		
DETAILS BY Aleksy Serin	CHECKED Edgardo Isidro	UNIT: 3581 CONTRACT No.: 0R9701 PROJECT NUMBER & PHASE: 08120002241		VEHICLE RINSE FACILITY	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF
QUANTITIES BY	CHECKED	DISREGARD PRINTS BEARING EARLIER REVISION DATES		12-11-12 04-10-13 07-05-13 07-31-13 10-30-13			

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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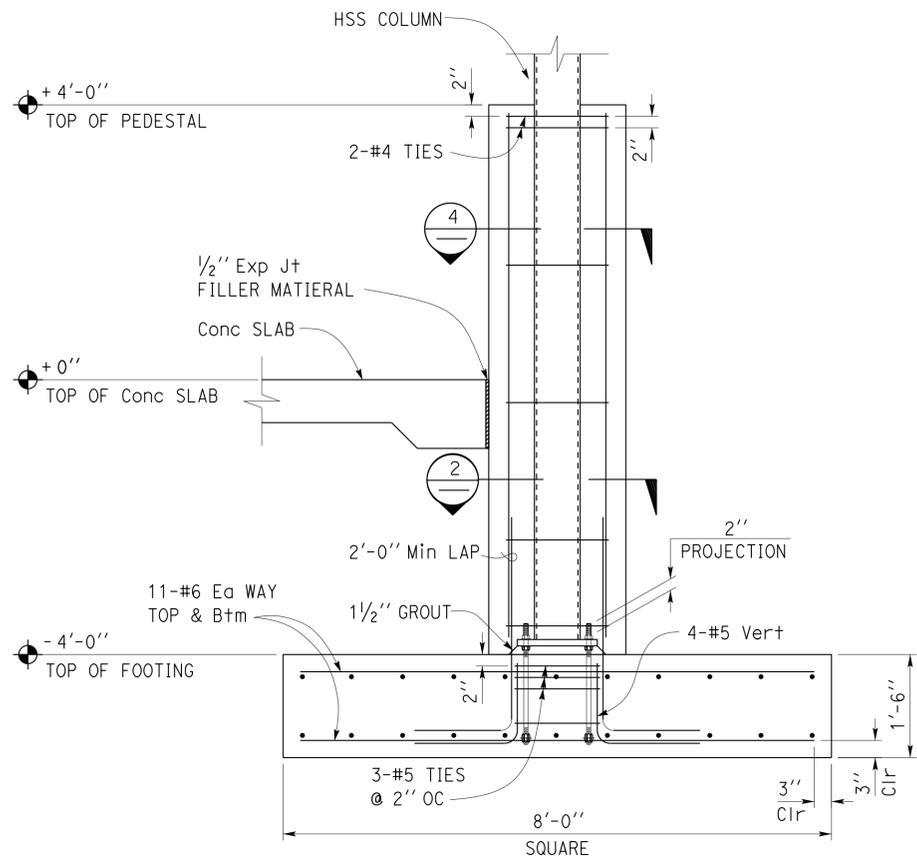
  

<i>Tahir Rashid</i>		11-15-2013
REGISTERED CIVIL ENGINEER	DATE	

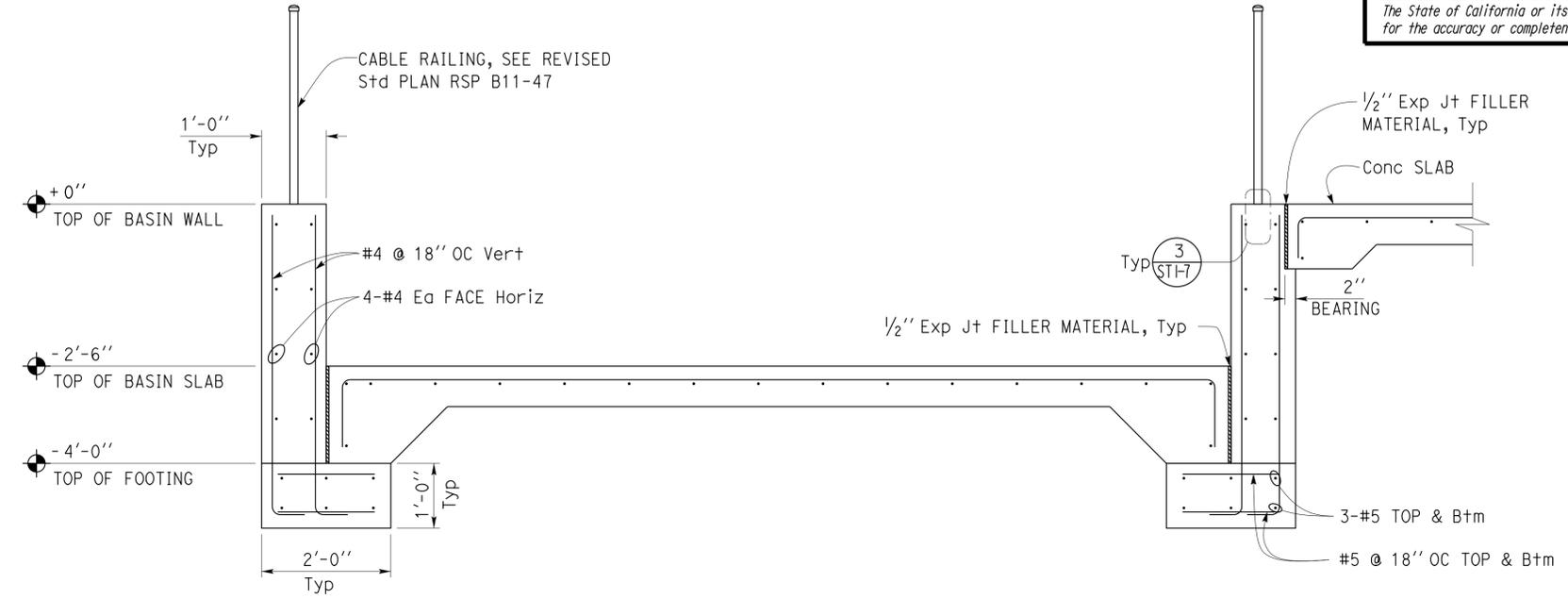
  

3-24-14	
PLANS APPROVAL DATE	

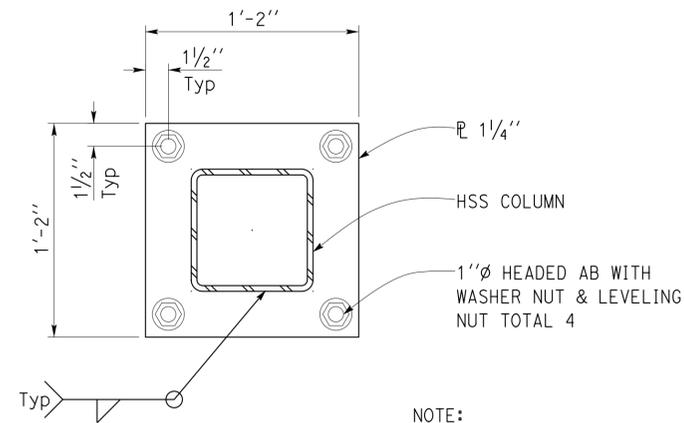
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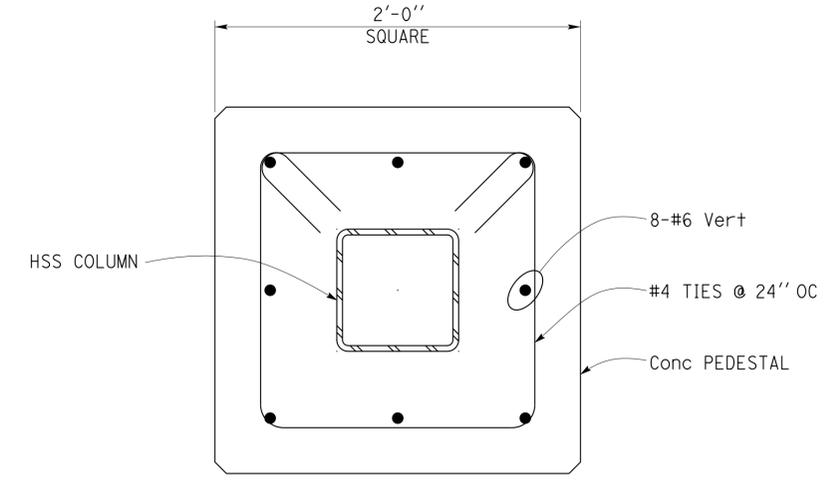
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**3 SECTION**  
Scale  $\frac{3}{4}'' = 1' - 0''$



**2 BASE PLATE**  
Scale  $2'' = 1' - 0''$



**4 SECTION**  
Scale  $2'' = 1' - 0''$

DESIGN BY Edgardo Isidro	CHECKED Tahir Rashid	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No. 56M5730	CORONA MAINTENANCE STATION		SHEET ST1-5
				POST MILE	VEHICLE RINSE FACILITY	FOOTING/SLAB DETAILS	
DETAILS BY Aleksey Serin	CHECKED Edgardo Isidro	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3581 CONTRACT No.: 0R9701 PROJECT NUMBER & PHASE: 08120002241	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF
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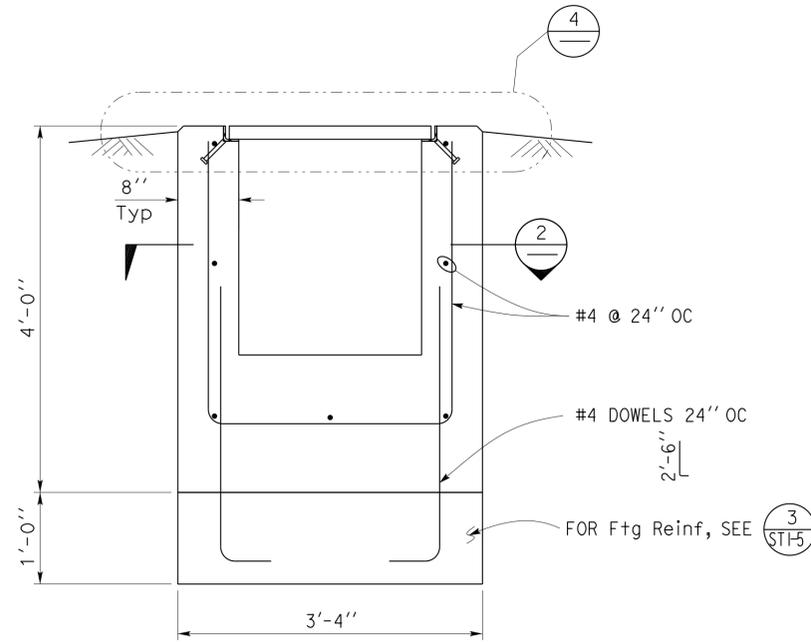
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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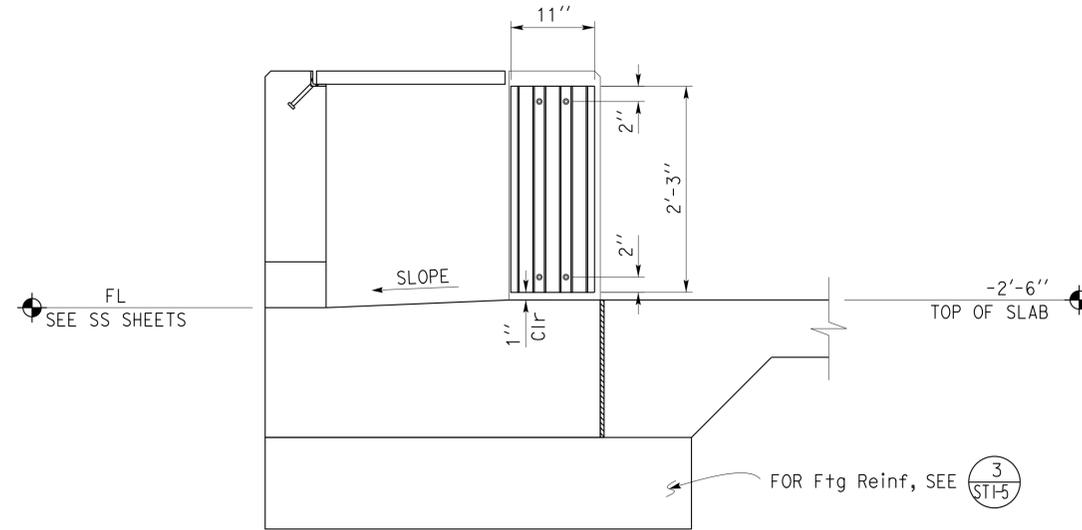
3-24-14  
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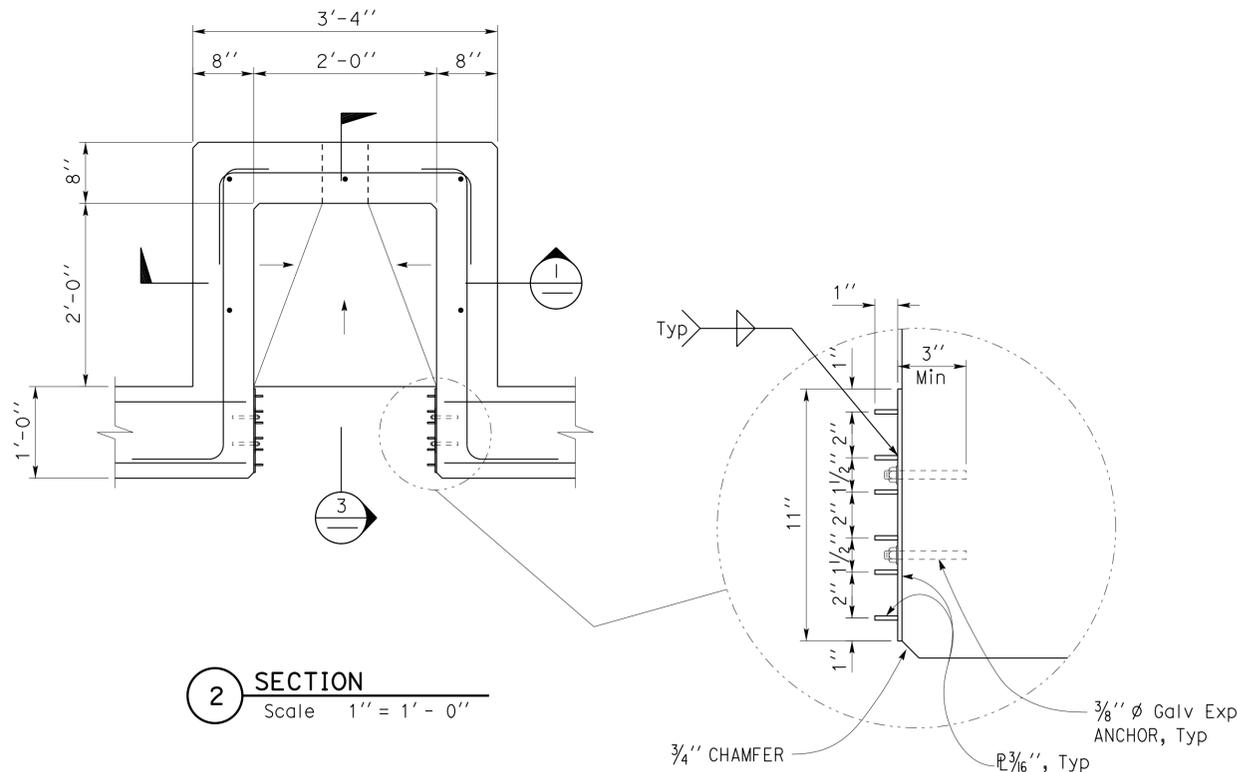
NOTE:  
 For information not shown, see Sanitary sheets.



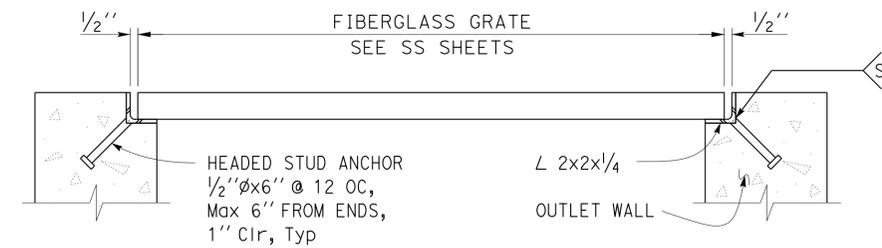
**1 SECTION**  
 Scale 1" = 1' - 0"



**3 SECTION**  
 Scale 1" = 1' - 0"



**2 SECTION**  
 Scale 1" = 1' - 0"



**4 FIBERGLASS GRATE AND FRAME SECTION**  
 Scale 2" = 1' - 0"

VEHICLE  
 RINSE  
 FACILITY

DESIGN BY Edgardo Isidro	CHECKED Tahir Rashid	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES <b>ARCHITECTURAL AND STRUCTURAL DESIGN</b>	BRIDGE No. 56M5730	<b>CORONA MAINTENANCE STATION</b> VEHICLE RINSE FACILITY <b>OUTLET BOX DETAILS</b>	SHEET <b>ST1-6</b>	
DETAILS BY Aleksey Serin	CHECKED Edgardo Isidro			POST MILE		REVISION DATES (PRELIMINARY STAGE ONLY)	OF
QUANTITIES BY	CHECKED			UNIT: 3581 CONTRACT No.: 0R9701 PROJECT NUMBER & PHASE: 08120002241		DISREGARD PRINTS BEARING EARLIER REVISION DATES	06-13-13 07-24-13 07-30-13 08-26-13 10-30-13

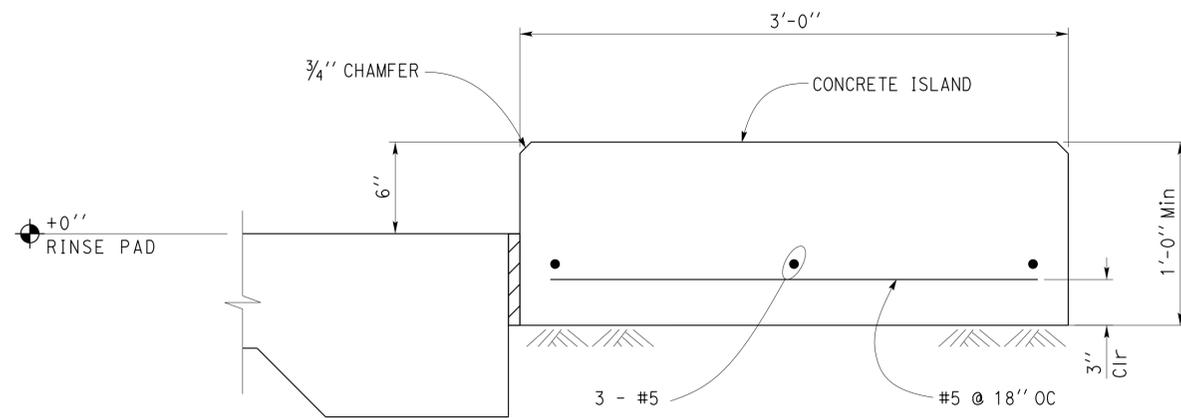
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		46	106

*Tahir Rashid*  
REGISTERED CIVIL ENGINEER  
11-15-2013  
DATE

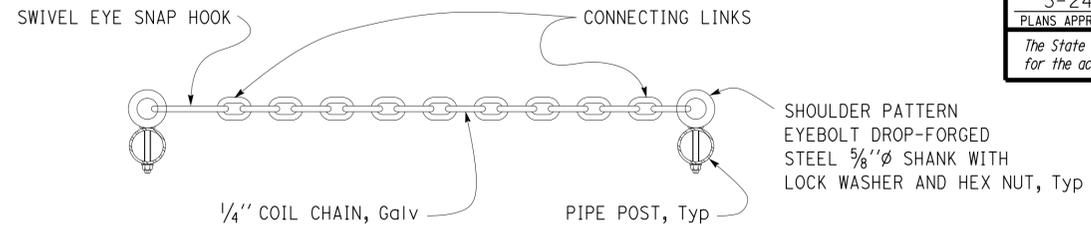
REGISTERED PROFESSIONAL ENGINEER  
Tahir Rashid  
No. 61932  
Exp. 9-30-15  
CIVIL  
STATE OF CALIFORNIA

3-24-14  
PLANS APPROVAL DATE

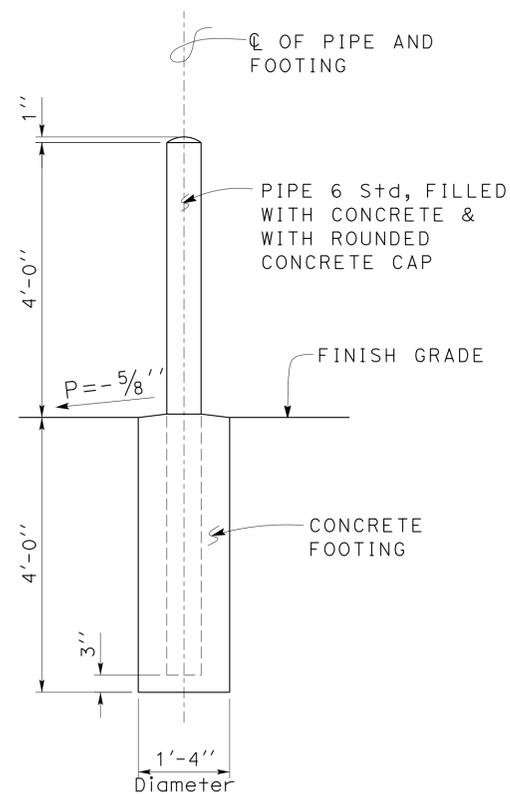
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.



**1 CONCRETE ISLAND SECTION**  
Scale 2" = 1' - 0"



**3 GUARD CHAIN PLAN AND DETAIL**  
Scale 2" = 1' - 0"



**2 PIPE GUARD POST DETAIL**  
Scale 3/4" = 1' - 0"

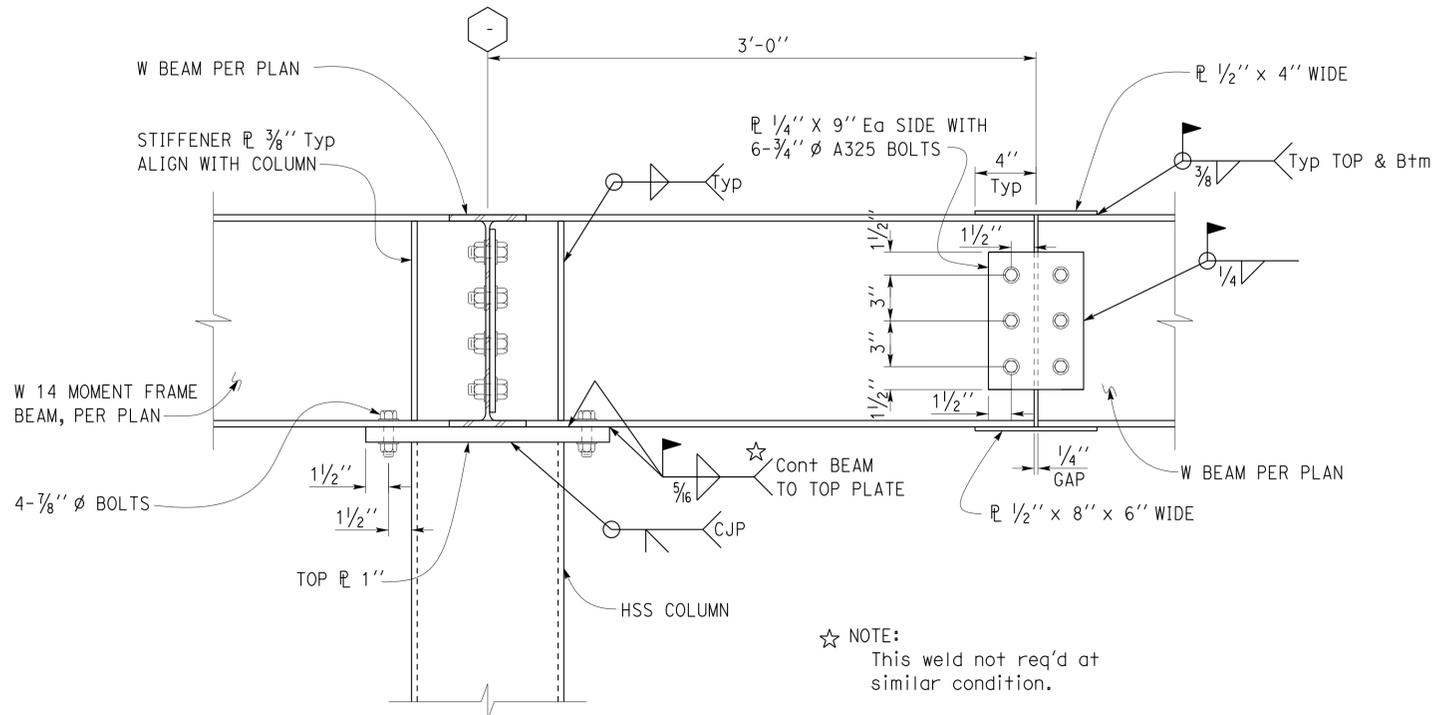
DESIGN BY Edgardo Isidro	CHECKED Tahir Rashid	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No. 56M5730	CORONA MAINTENANCE STATION		SHEET ST1-7
				POST MILE	VEHICLE RINSE FACILITY	MISCELLANEOUS DETAILS	
DETAILS BY Aleksy Serin	CHECKED Edgardo Isidro	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3581 CONTRACT No.: 0R9701 PROJECT NUMBER & PHASE: 08120002241	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF
QUANTITIES BY	CHECKED	0 1 2 3			07-08-13 07-31-13 10-30-13		

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		47	106

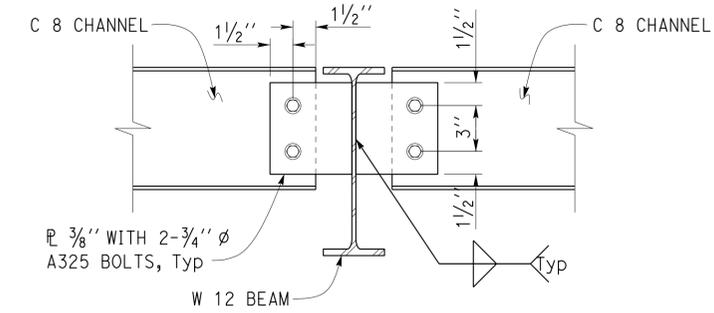
*Tahir Rashid*  
REGISTERED CIVIL ENGINEER  
11-15-2013 DATE  
No. 61932  
Exp. 9-30-15  
CIVIL  
STATE OF CALIFORNIA

3-24-14  
PLANS APPROVAL DATE

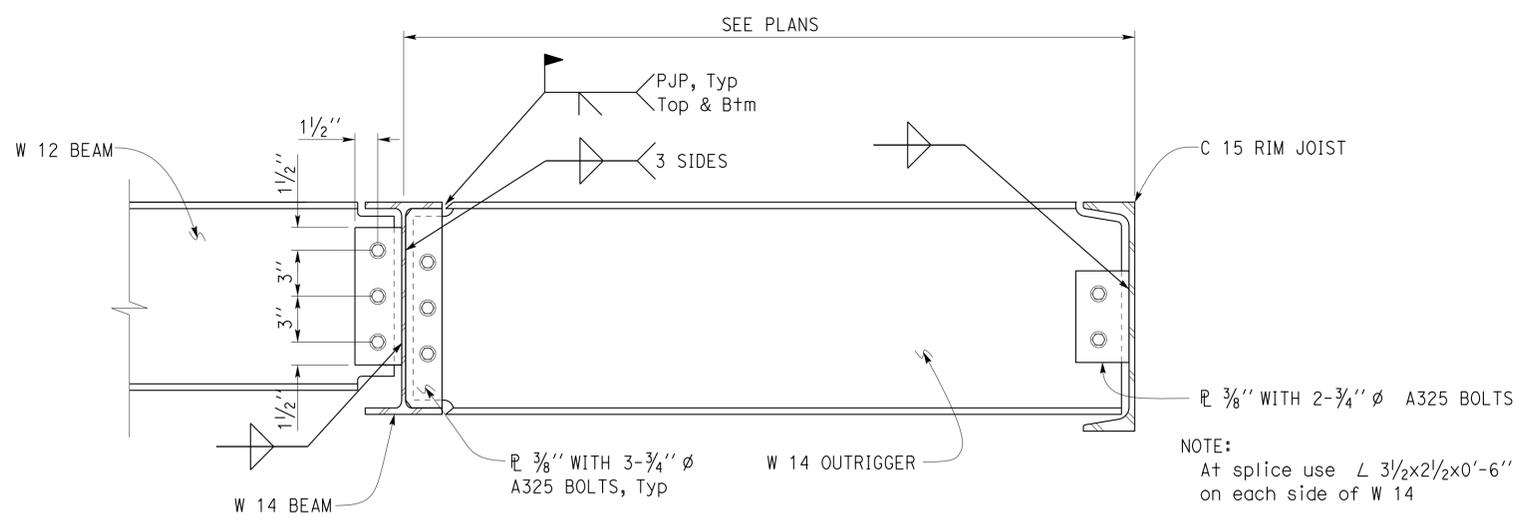
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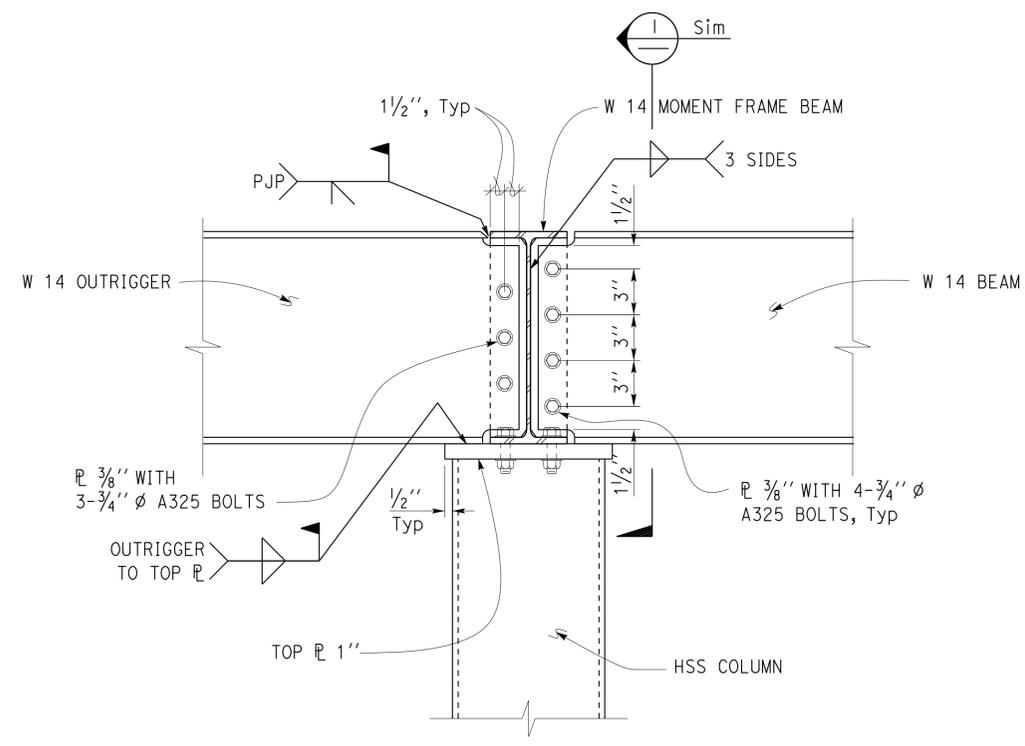
**1 MOMENT CONNECTION**  
Scale 2" = 1' - 0"



**3 CHANNEL TO BEAM CONNECTION**  
Scale 2" = 1' - 0"



**2 OUTRIGGER CONNECTION**  
Scale 2" = 1' - 0"



NOTES:  
1. For additional information not shown, see (1)  
2. Stiffener plate not shown for clarity.

**4 MOMENT CONNECTION**  
Scale 2" = 1' - 0"

DESIGN BY Edgardo Isidro	CHECKED Tahir Rashid	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No. 56M5730	CORONA MAINTENANCE STATION		SHEET ST1-8
				POST MILE	VEHICLE RINSE FACILITY	ROOF FRAMING DETAILS	
DETAILS BY Aleksey Serin	CHECKED Edgardo Isidro	UNIT: 3581 CONTRACT No.: 0R9701	PROJECT NUMBER & PHASE: 08120002241	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF
QUANTITIES BY	CHECKED	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	07-08-1308-20-1308-26-1310-30-13			

**PROJECT DESIGN CRITERIA**

The building work on this project has been designed to conform to the 2010 California Building Code (2009 IBC).

**DETAIL NOTES**

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		48	106

*Tahir Rashid* 11-15-2013  
 REGISTERED CIVIL ENGINEER DATE

3-24-14  
 PLANS APPROVAL DATE

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**LOADS**

**SEISMIC:** Occupancy Category = I  
 Importance Factor I = 1.0  
 Site Soil Class = D  
 $S_S = 2.000$        $S_{DS} = 1.33$   
 $S_I = 0.960$        $S_{DI} = 0.960$   
 Seismic Design Category = E  
**Seismic Force-Resisting System:**

North - South

$R = 3.00$      $C_S = 0.44$

East - West

$R = 3.00$      $C_S = 0.44$

**WIND:** Basic Wind Speed = 85 mph  
 Importance Factor I = 1.0  
 Exposure C

**LIVE LOAD:** Roof = 20 psf

- All bolts must be hex head machine bolts, with hex head nuts, unless otherwise noted.
- All lock washers must be helical spring lock washers.
- Verify all controlling field dimensions before ordering or fabricating any material.

**MATERIALS**

**REINFORCED CONCRETE:** (Ultimate Strength Design) :  
 $f'_c = 3,000$  psi  
 $f_y = 60,000$  psi

**STRUCTURAL STEEL:** (Allowable Strength Design) :  
 Channels, Angles & Misc Shapes       $F_y = 36$  ksi  
 Hollow Structural Section (HSS)       $F_y = 46$  ksi  
 Weld Electrodes       $F_y = 70$  ksi

**FOUNDATION:**  
 Soils report dated : N/A  
 Allowable Soil Pressure (DL + LL) : = 2,000 psf

DESIGN	BY Tahir Rashid	CHECKED Edgardo Isidro
DETAILS	BY Aleksey Serin	CHECKED Tahir Rashid
QUANTITIES	BY	CHECKED

**STATE OF CALIFORNIA**  
 DEPARTMENT OF TRANSPORTATION

**DIVISION OF ENGINEERING SERVICES**  
**ARCHITECTURAL AND STRUCTURAL DESIGN**

BRIDGE No.	56M5730
POST MILE	
3000 GALLONS ASPHALTIC EMULSION TANK	DESIGN CRITERIA AND DETAIL NOTES

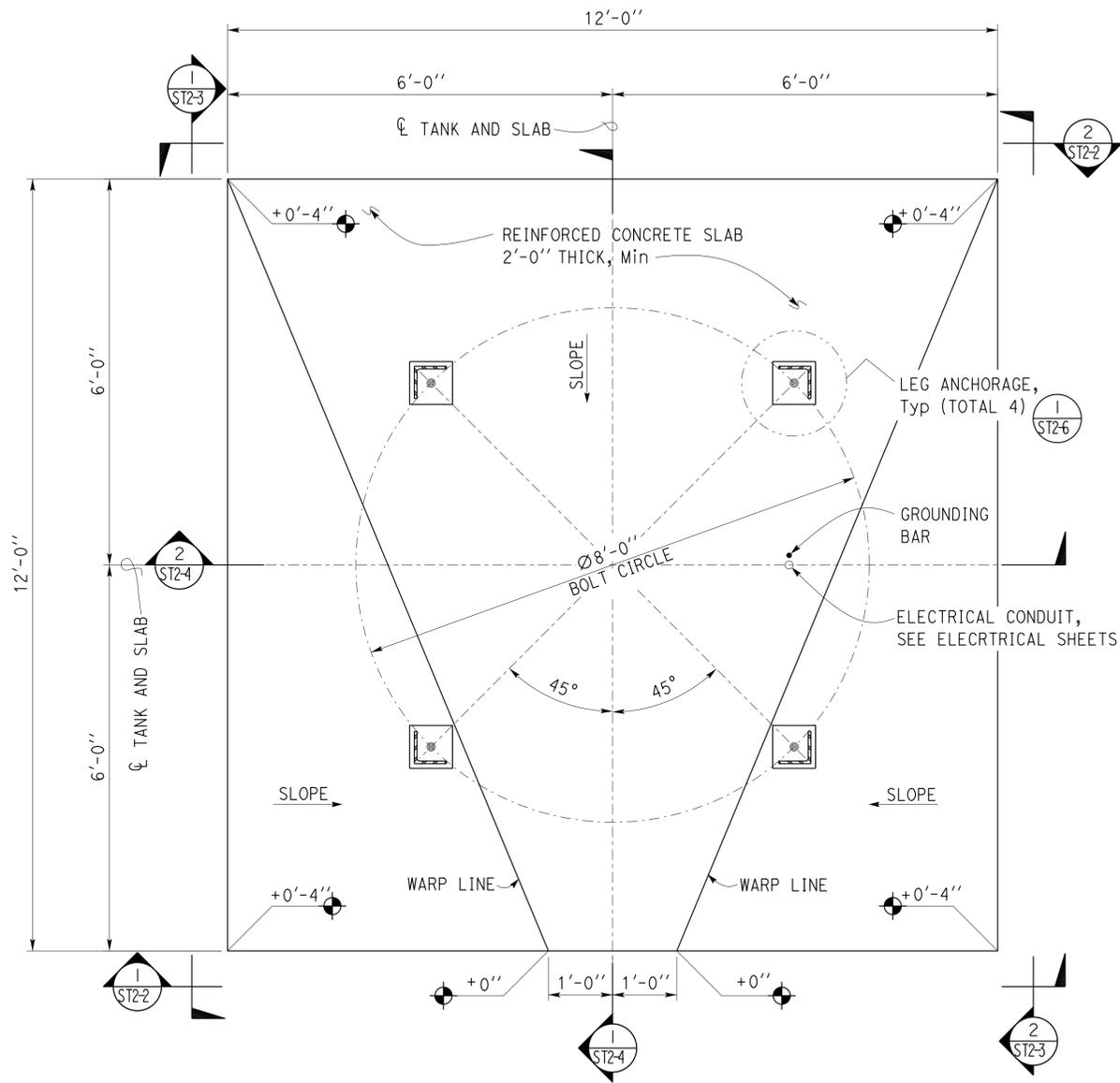
SHEET **ST2-0**

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		49	106

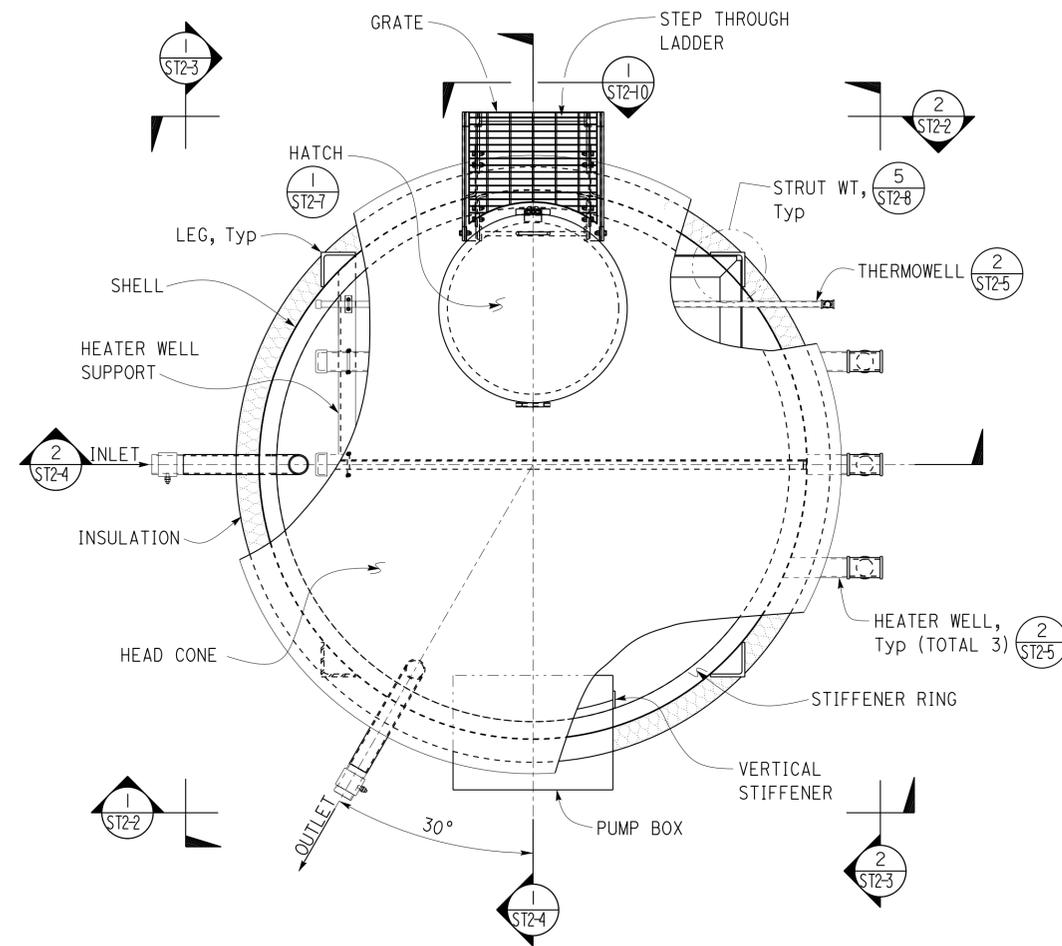
*Tahir Rashid*  
REGISTERED CIVIL ENGINEER  
11-15-2013  
DATE

3-24-14  
PLANS APPROVAL DATE

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**1 FOUNDATION PLAN**  
Scale 3/4" = 1' - 0"



**2 EMULSION TANK PLAN**  
Scale 3/4" = 1' - 0"

*Joe Esposito*  
DESIGN ENGINEER

DESIGN	BY Tahir Rashid	CHECKED Edgardo Isidro
DETAILS	BY Aleksey Serin	CHECKED Tahir Rashid
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES  
ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE No. 56M5730  
POST MILE

CONORA MAINTENANCE STATION

3000 GALLONS ASPHALTIC EMULSION TANK

EMULSION TANK PLANS

SHEET ST2-1 OF

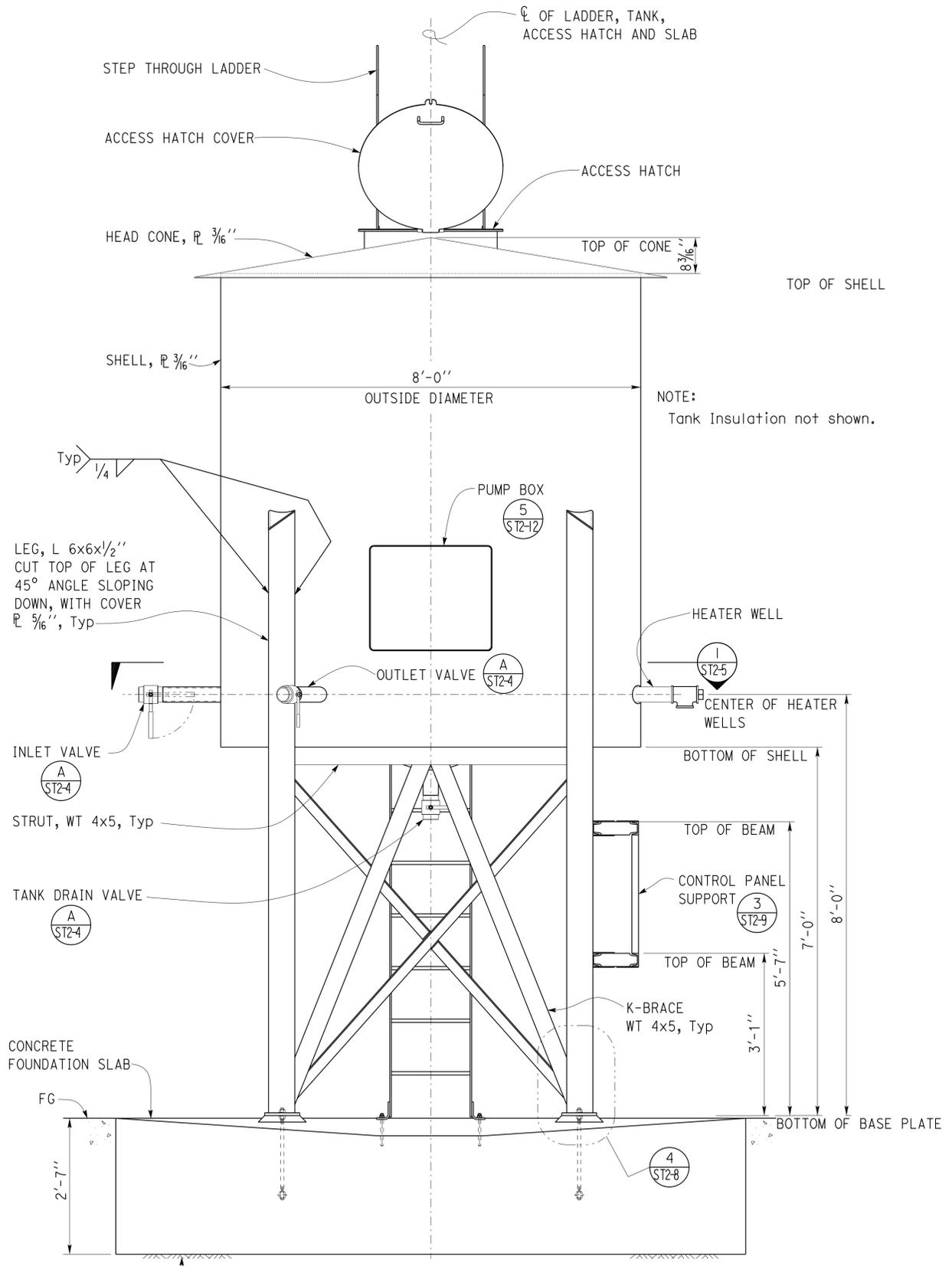
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		50	106

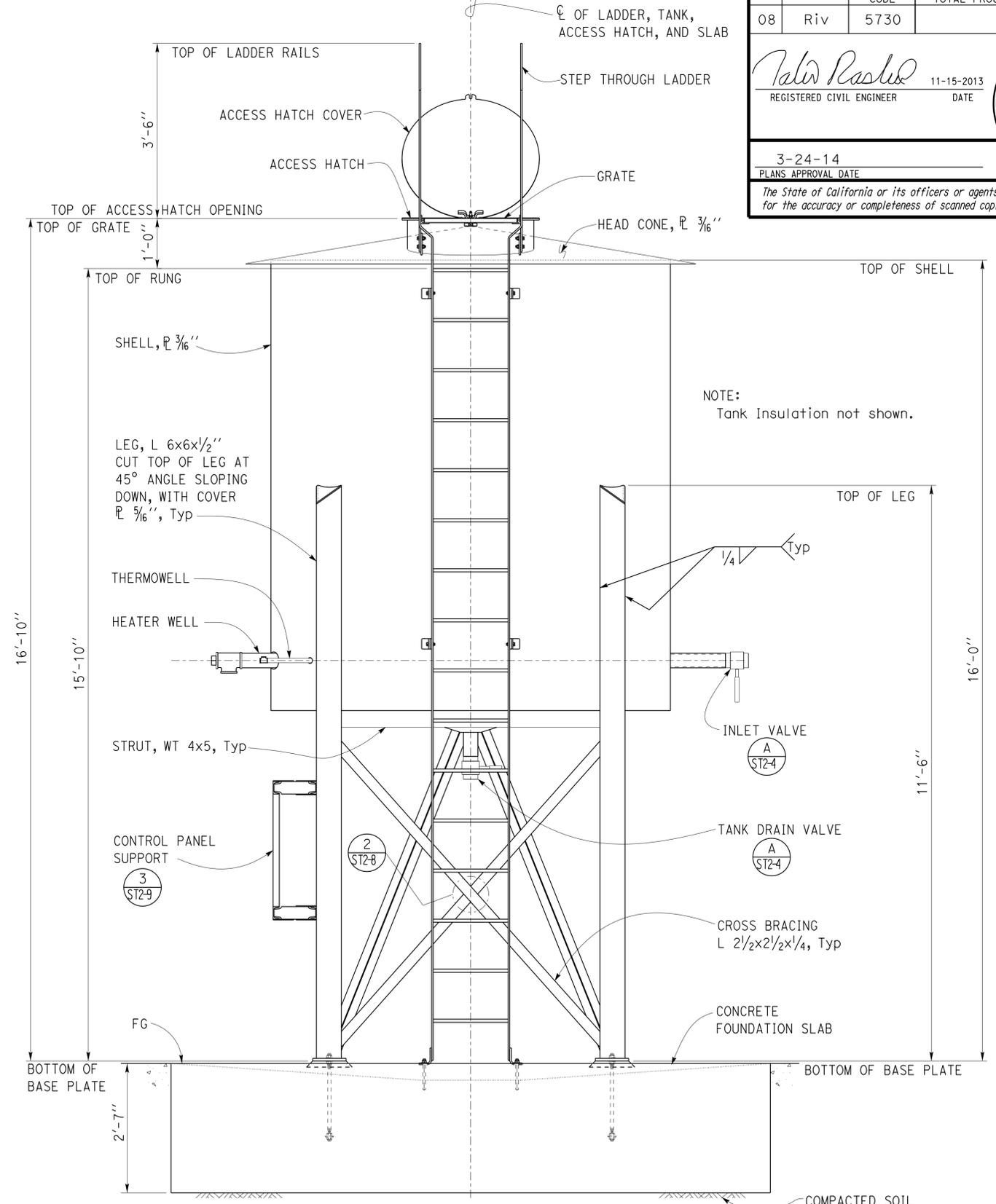
<i>Tahir Rashid</i>		11-15-2013
REGISTERED CIVIL ENGINEER		DATE
No. 61932		
Exp. 9-30-15		
CIVIL		
STATE OF CALIFORNIA		

3-24-14
PLANS APPROVAL DATE
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**1 FRONT ELEVATION**  
Scale 3/4" = 1' - 0"



**2 REAR ELEVATION**  
Scale 3/4" = 1' - 0"

DESIGN	BY Tahir Rashid	CHECKED Edgardo Isidro
DETAILS	BY Aleksey Serin	CHECKED Tahir Rashid
QUANTITIES	BY	CHECKED

**STATE OF CALIFORNIA**  
DEPARTMENT OF TRANSPORTATION

**DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN**

BRIDGE No. 56M5730  
POST MILE

**CONORA MAINTENANCE STATION**  
3000 GALLONS ASPHALTIC EMULSION TANK  
**EMULSION TANK ELEVATIONS**

SHEET **ST2-2** OF

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		51	106

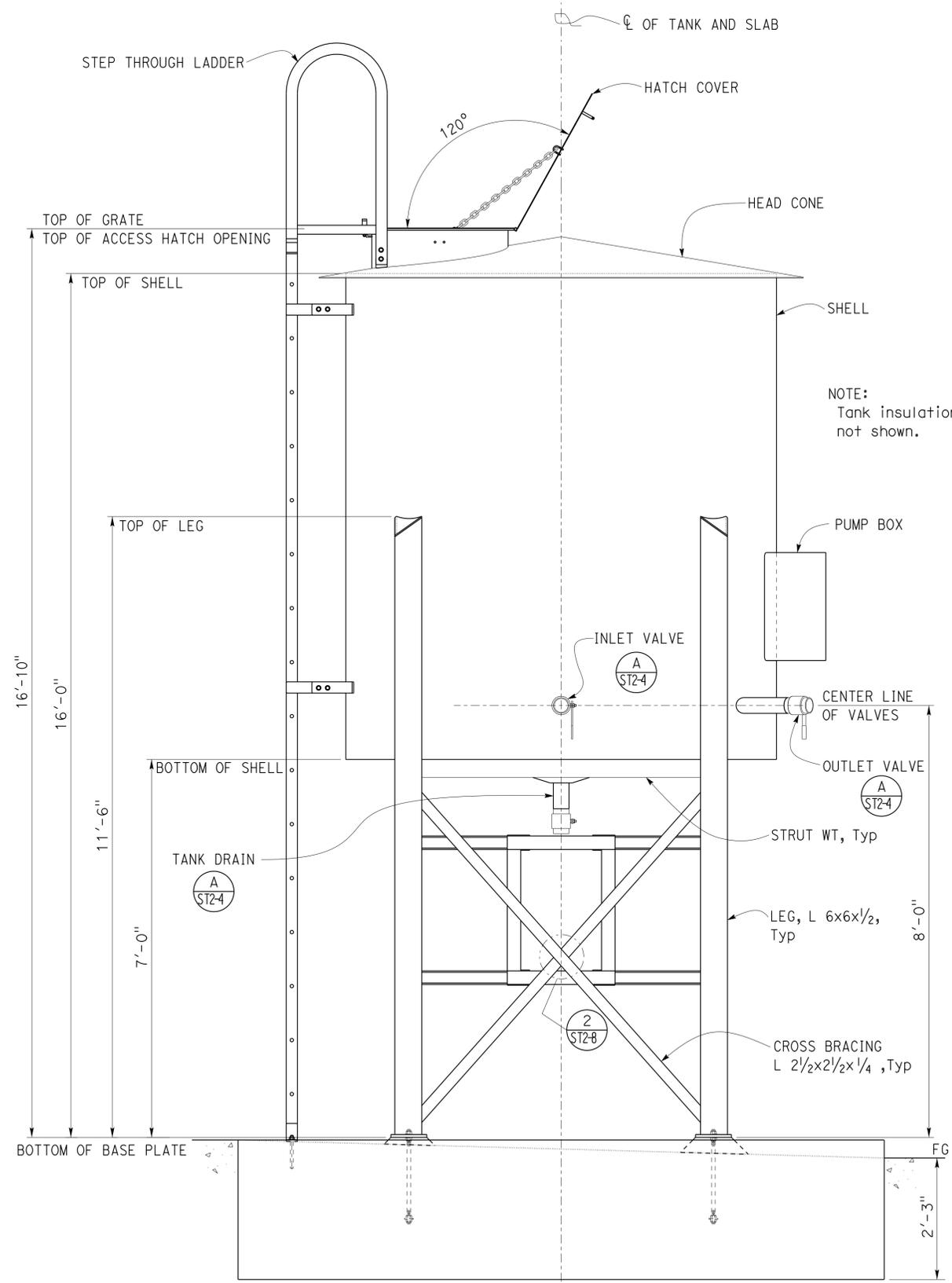
<i>Tahir Rashid</i>		11-15-2013
REGISTERED CIVIL ENGINEER		DATE

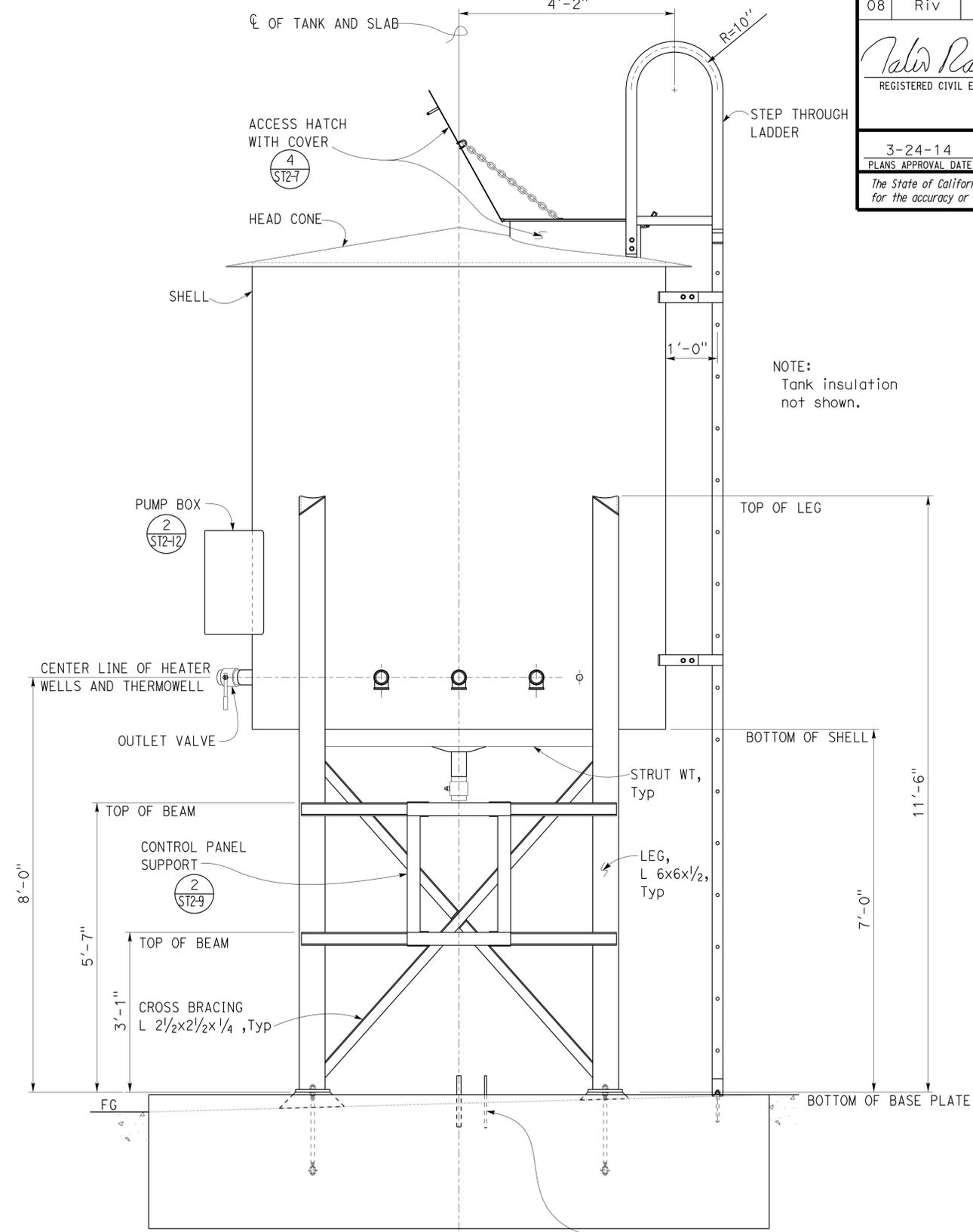
3-24-14
PLANS APPROVAL DATE

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**1 LEFT SIDE ELEVATION**  
Scale  $\frac{3}{4}'' = 1' - 0''$



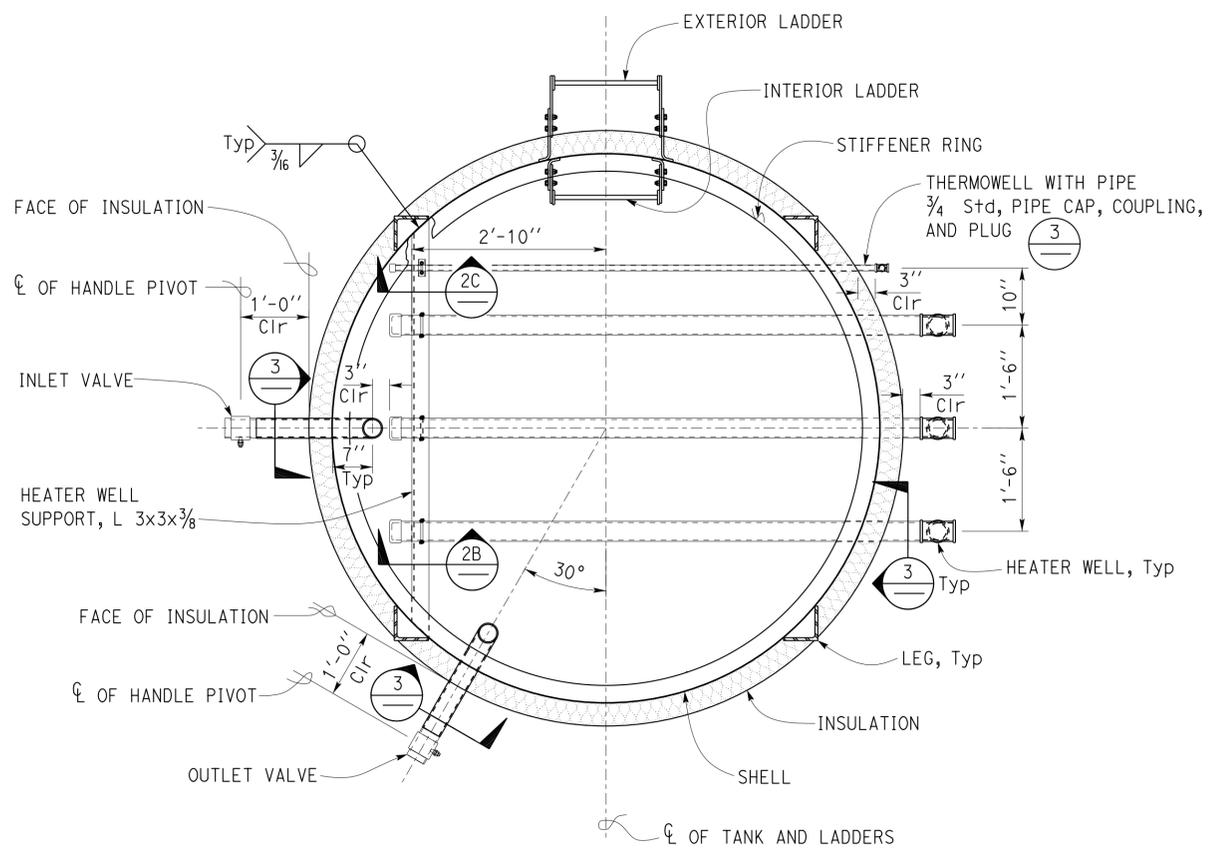
**2 RIGHT SIDE ELEVATION**  
Scale  $\frac{3}{4}'' = 1' - 0''$

GROUND BAR, #4 [ ] x 20'-0", SEE ELECTRICAL SHEETS FOR LOCATION MAY BE USED AS PART OF FOOTING REINFORCING. EXPOSED PORTION, 6" ABOVE SLAB, MUST BE COVERED WITH HEAT SHRINKABLE TUBING WITH 2" MIN EMBEDMENT INTO CONCRETE.

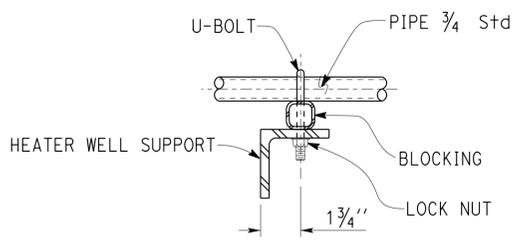
DESIGN BY Tahir Rashid CHECKED Edgardo Isidro	DETAILS BY Aleksey Serin CHECKED Tahir Rashid	QUANTITIES BY CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No. 56M5730	CONORA MAINTENANCE STATION		SHEET ST2-3
					POST MILE	3000 GALLONS ASPHALTIC EMULSION TANK	EMULSION TANK ELEVATIONS	
					UNIT: 3581 CONTRACT No.: 0R9701 PROJECT NUMBER & PHASE: 08120002241	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	



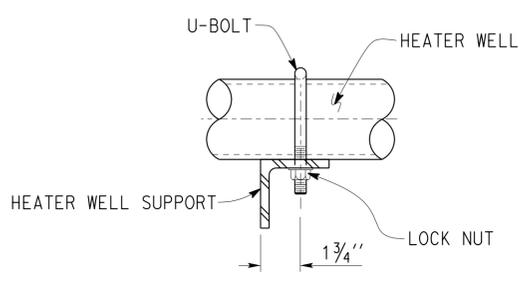
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		53	106
 REGISTERED CIVIL ENGINEER				11-15-2013 DATE	
3-24-14 PLANS APPROVAL DATE					
<i>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.</i>					



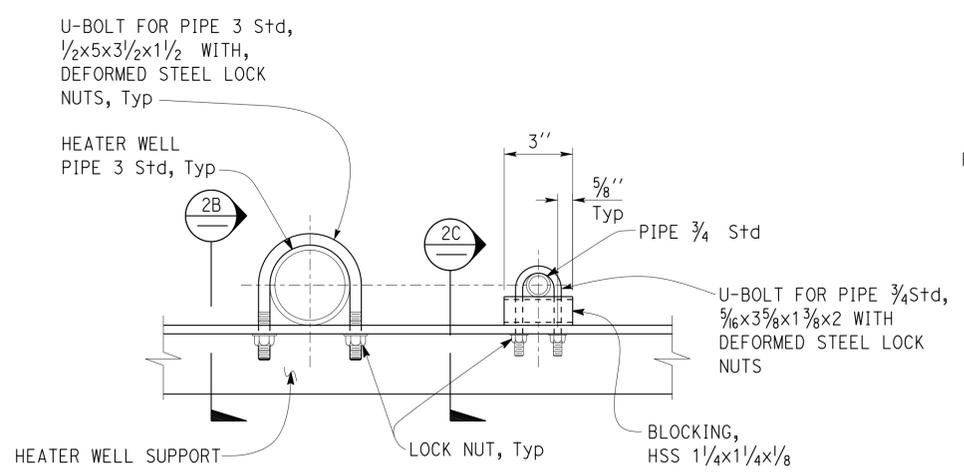
**1 HEATER WELL LAYOUT**  
Scale 3/4" = 1' - 0"



**C U-BOLT AND BLOCKING DETAIL**  
Scale 3" = 1' - 0"

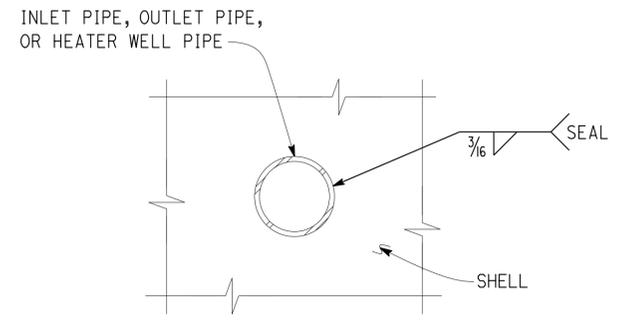


**B U-BOLT DETAIL**  
Scale 3" = 1' - 0"



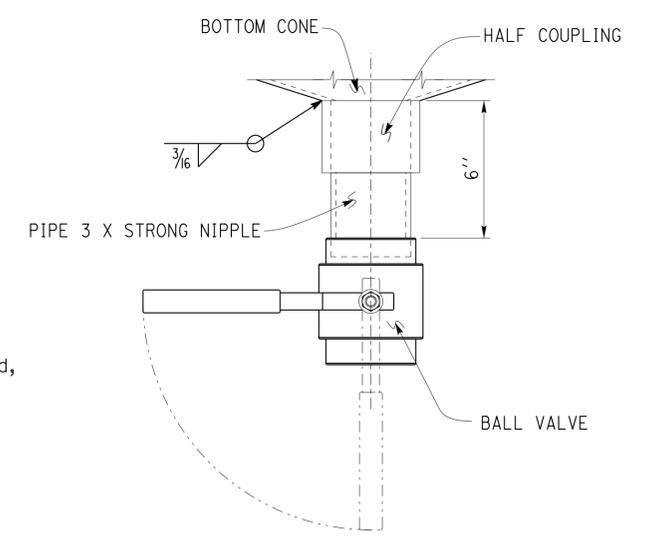
**A U-BOLT DETAIL**  
Scale 3" = 1' - 0"

**2 HEATER WELL SUPPORT DETAIL**  
Scale 3" = 1' - 0"



NOTE:  
Thermowell Pipe Similar.

**3 PIPE PENETRATION WELDING DETAIL**  
Scale 3" = 1' - 0"



**4 TANK DRAIN WELDING DETAIL**  
Scale 3" = 1' - 0"

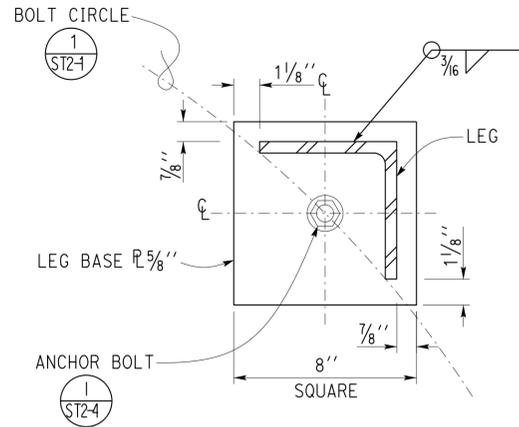
DESIGN BY Tahir Rashid	CHECKED Edgardo Isidro	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No. 56M5730	CONORA MAINTENANCE STATION		SHEET ST2-5
				POST MILE	3000 GALLONS ASPHALTIC EMULSION TANK	HEATER WELL SECTIONS AND DETAILS	
DETAILS BY Aleksey Serin	CHECKED Tahir Rashid				REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF
QUANTITIES BY	CHECKED				01-02-13		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3581 CONTRACT No.: 0R9701 PROJECT NUMBER & PHASE: 08120002241		DISREGARD PRINTS BEARING EARLIER REVISION DATES		SHEET OF	

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		54	106

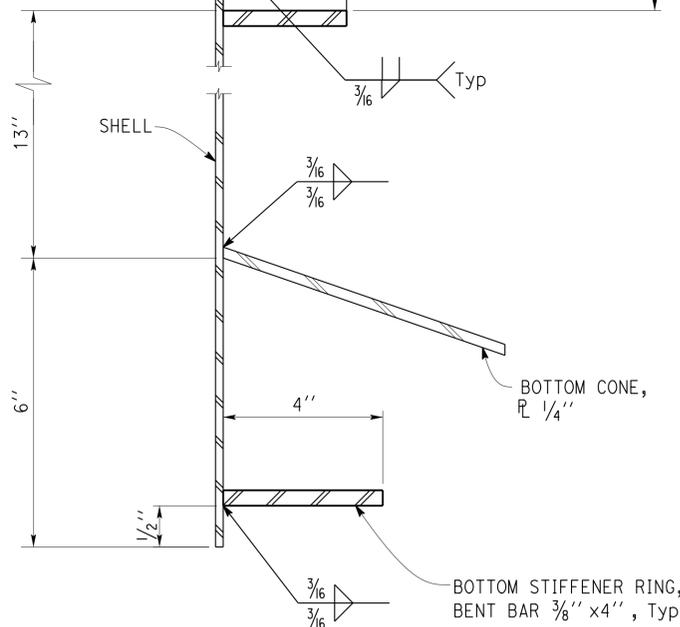
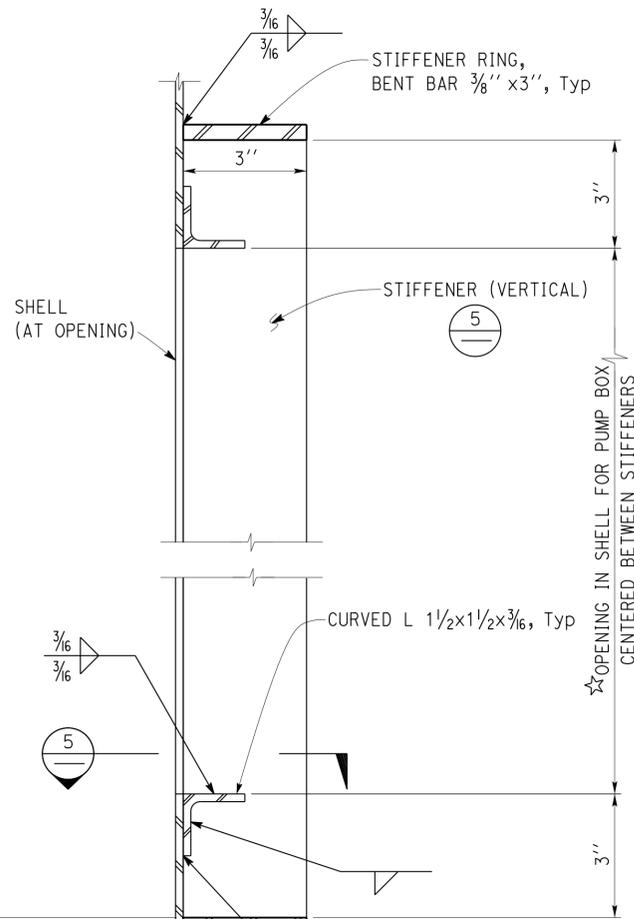
*Tahir Rashid*  
 REGISTERED CIVIL ENGINEER  
 DATE 11-15-2013  
 No. 61932  
 Exp. 9-30-15  
 CIVIL  
 STATE OF CALIFORNIA

3-24-14  
 PLANS APPROVAL DATE

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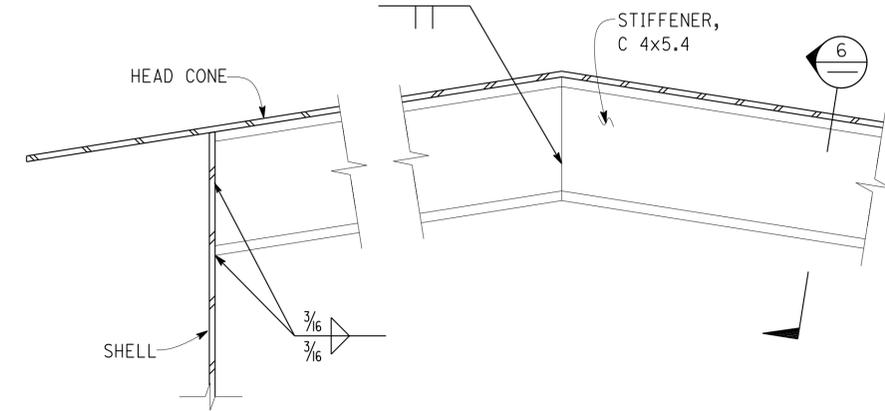
**1 LEG ANCHORAGE DETAILS**  
 Scale 3" = 1' - 0"



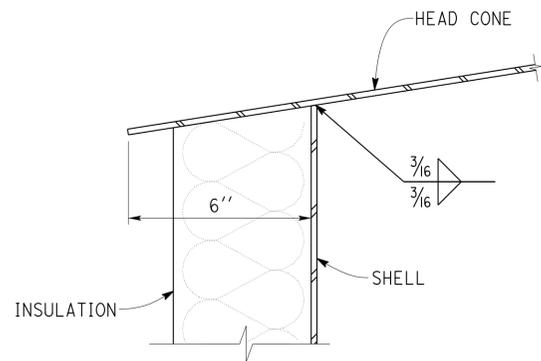
★ NOTE:  
 Pump Box not shown.

**3 SHELL WELDING DETAILS**  
 No Scale

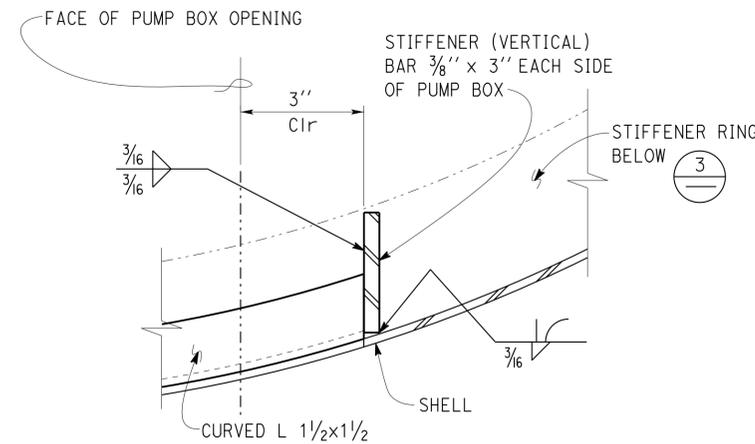
★ WELD NOTE:  
 Fillet Weld Pump Box to the Tank Shell all around, to provide liquid tight seal.



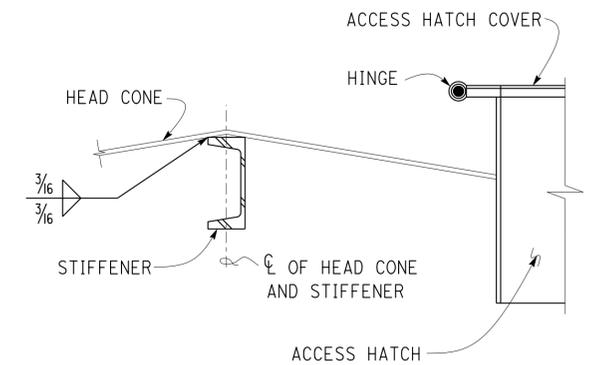
**4 HEAD CONE STIFFENER WELD DETAIL**  
 Scale 4" = 1' - 0"



**2 SHELL TO HEAD CONE WELD DETAIL**  
 Scale 4" = 1' - 0"



**5 VERTICAL STIFFENER TO RING STIFFENER WELD DETAIL**  
 No Scale



**6 HEAD CONE STIFFENER SECTION**  
 Scale 3" = 1' - 0"

DESIGN BY Tahir Rashid	CHECKED Edgardo Isidro	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES <b>ARCHITECTURAL AND STRUCTURAL DESIGN</b>	BRIDGE No. 56M5730	<b>CONORA MAINTENANCE STATION</b>		SHEET <b>ST2-6</b> OF
DETAILS BY Aleksey Serin	CHECKED Tahir Rashid			POST MILE	3000 GALLONS ASPHALTIC EMULSION TANK	<b>EMULSION TANK DETAILS No. 1</b>	
QUANTITIES BY	CHECKED			UNIT: 3581 CONTRACT No.: 0R9701 PROJECT NUMBER & PHASE: 08120002241	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF

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

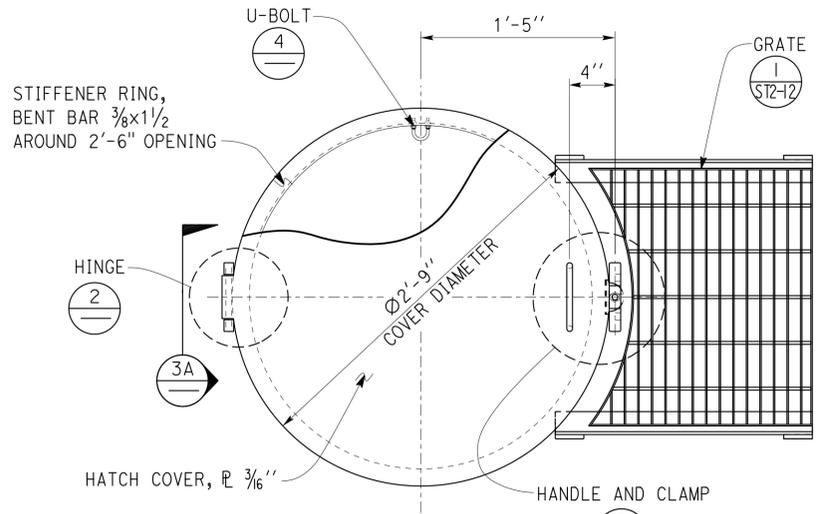
TAEWW Imperial - CCSC Rev. 01/13

D:\CADUser\projects\dist\_08\0812000224\_Corona\_ms\Expedit\kfst2\_06.dgn

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		55	106

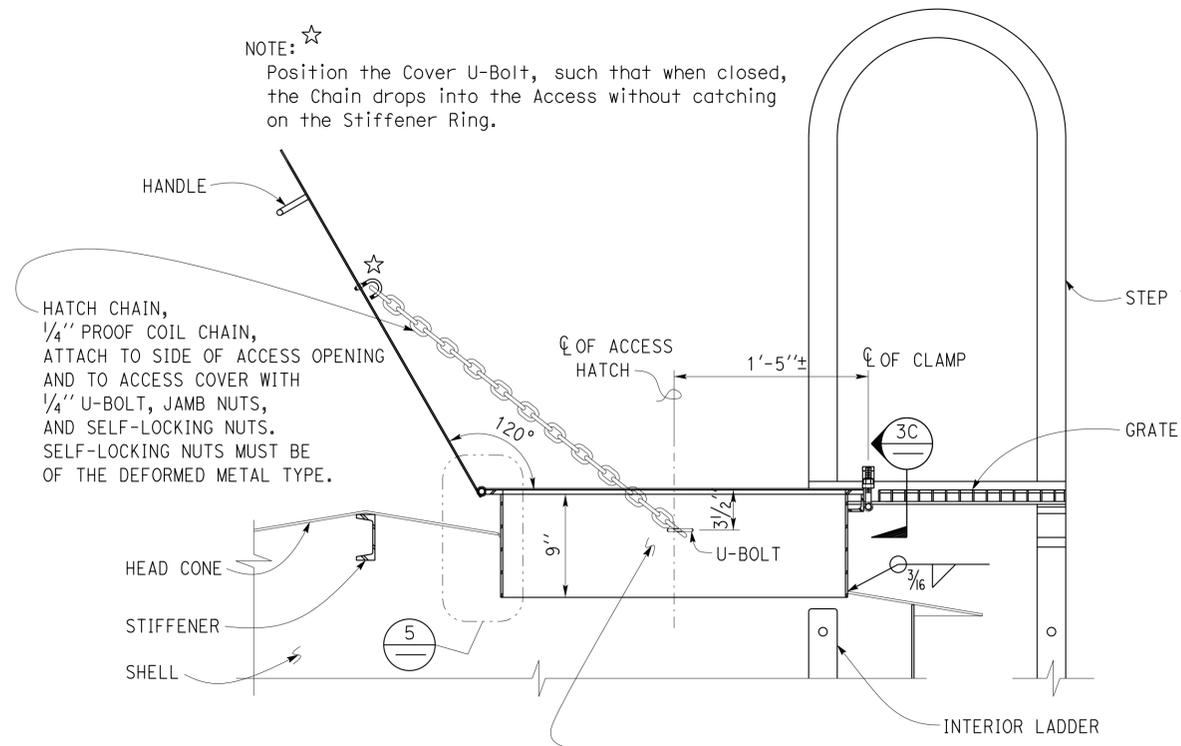
  

11-15-2013 REGISTERED CIVIL ENGINEER DATE	3-24-14 PLANS APPROVAL DATE
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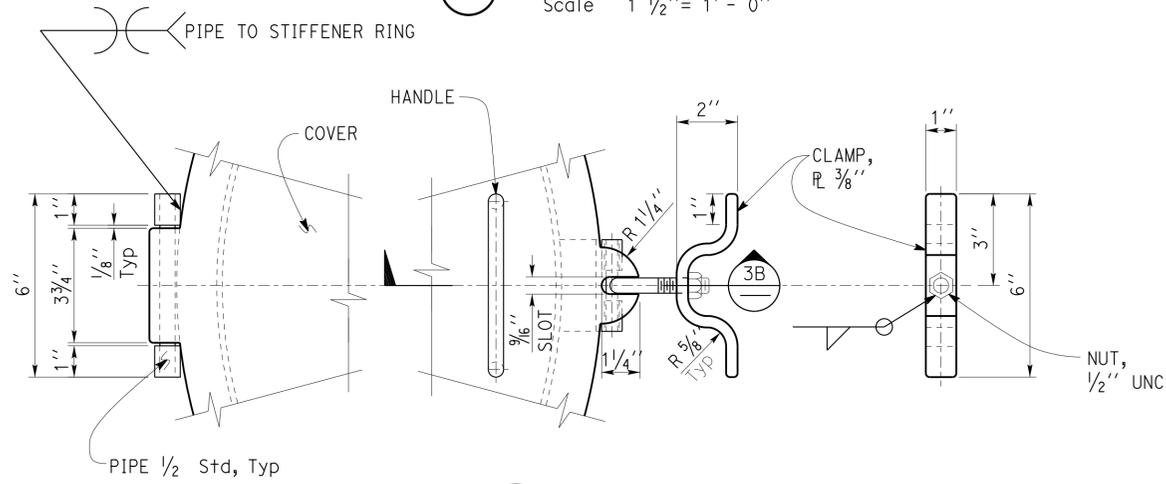


NOTE:  
Plan shown rotated 90°.

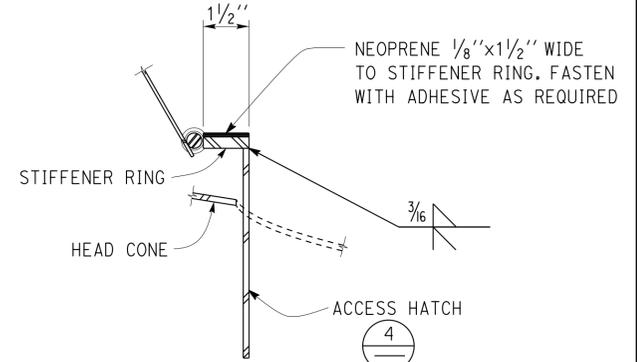
**1 ACCESS HATCH PLAN**  
Scale 1 1/2" = 1' - 0"



**4 ACCESS HATCH SECTION**  
Scale 1 1/2" = 1' - 0"

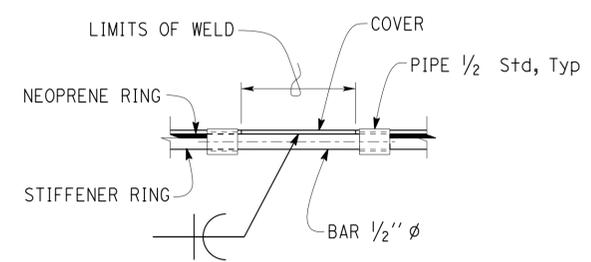


**2 HATCH PARTIAL PLAN DETAILS**  
Scale 4" = 1' - 0"

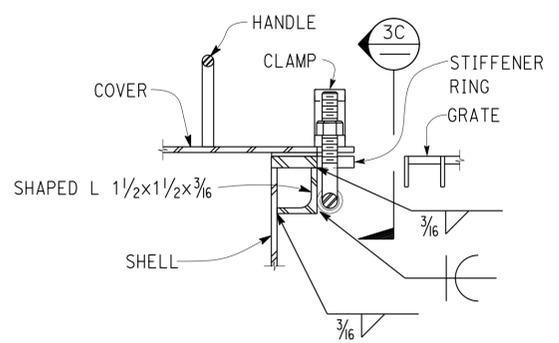


NOTES:  
1. Insulation not shown.  
2. Hatch Cover, Clamp and Hinge components must be hot dip galvanized.

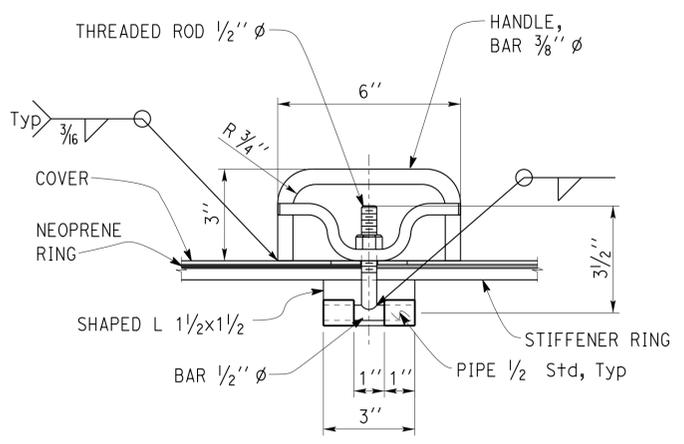
**5 STIFFENER RING WELD DETAIL**  
Scale 4" = 1' - 0"



**A HINGE END VIEW**



**B HANDLE AND CLAMP**



**C HANDLE AND CLAMP DETAIL**

**3 HATCH HINGE AND CLAMP DETAILS**  
Scale 4" = 1' - 0"

DESIGN	BY Tahir Rashid	CHECKED Edgardo Isidro
DETAILS	BY Aleksey Serin	CHECKED Tahir Rashid
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES  
ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE No. 56M5730  
POST MILE

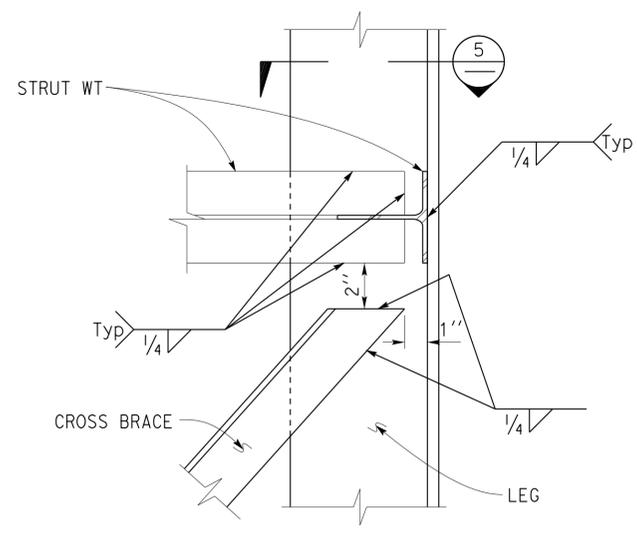
CONORA MAINTENANCE STATION  
3000 GALLONS ASPHALTIC EMULSION TANK  
EMULSION TANK DETAILS No. 2

SHEET OF  
ST2-7

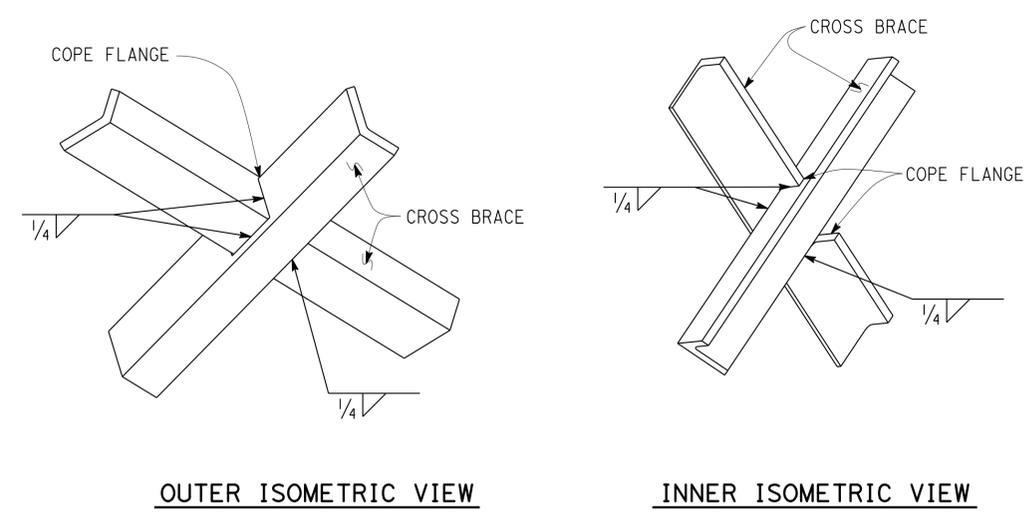
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		56	106

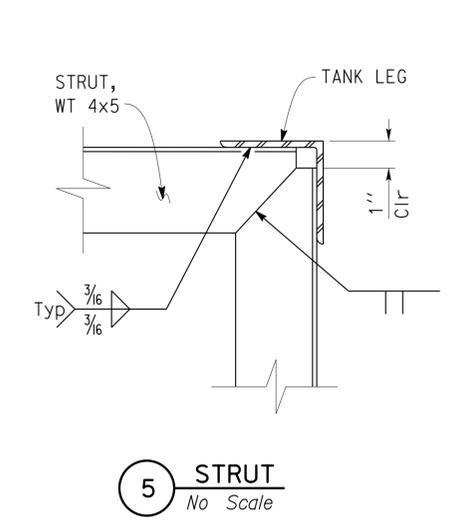
11-15-2013 REGISTERED CIVIL ENGINEER DATE	3-24-14 PLANS APPROVAL DATE
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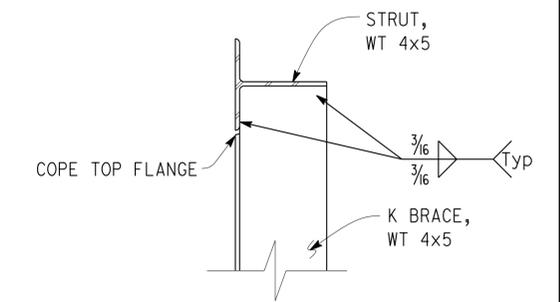
**1 STRUT AND CROSS BRACE TO LEG DETAIL**  
Scale 3" = 1' - 0"



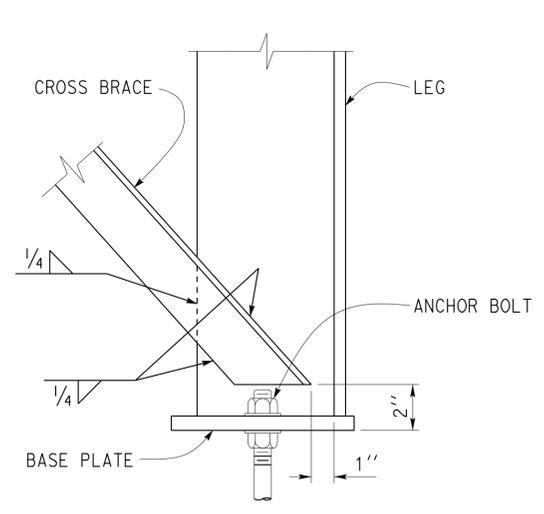
**2 CROSS BRACE INTERSECTION DETAIL**  
Scale 3" = 1' - 0"



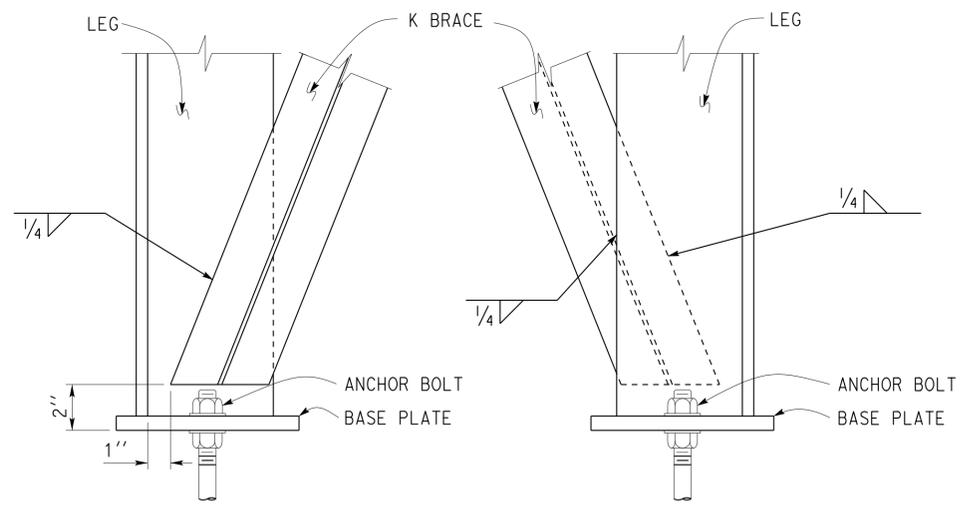
**5 STRUT**  
No Scale



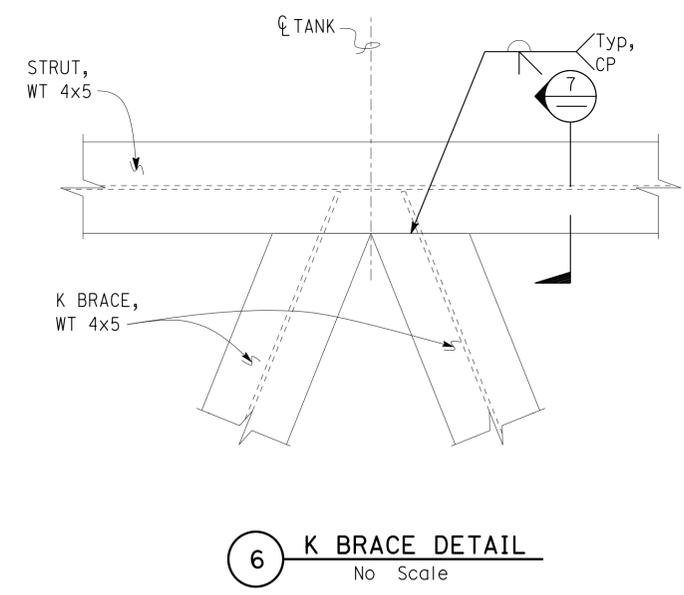
**7 K BRACE SECTION**  
No Scale



**3 CROSS BRACE TO LEG DETAIL**  
Scale 3" = 1' - 0"



**4 K-BRACE TO LEG DETAIL**  
Scale 3" = 1' - 0"



**6 K BRACE DETAIL**  
No Scale

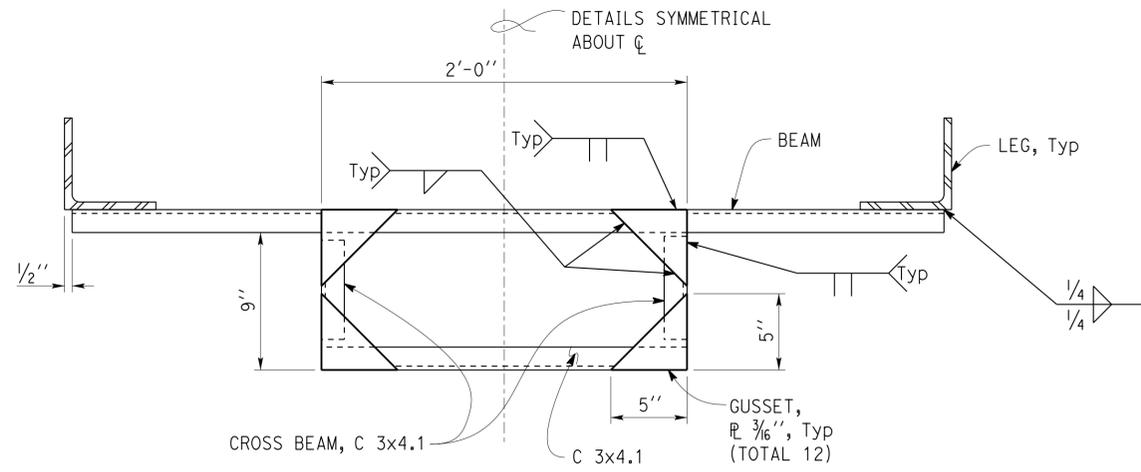
DESIGN BY Tahir Rashid CHECKED Edgardo Isidro DETAILS BY Aleksey Serin CHECKED Tahir Rashid QUANTITIES BY CHECKED	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES <b>ARCHITECTURAL AND STRUCTURAL DESIGN</b>	BRIDGE No. 56M5730 POST MILE	<b>CONORA MAINTENANCE STATION</b>		SHEET <b>ST2-8</b> OF
			UNIT: 3581 CONTRACT No.: 0R9701 PROJECT NUMBER & PHASE: 08120002241	3000 GALLONS ASPHALTIC EMULSION TANK	<b>EMULSION TANK DETAILS No. 3</b>	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		57	106

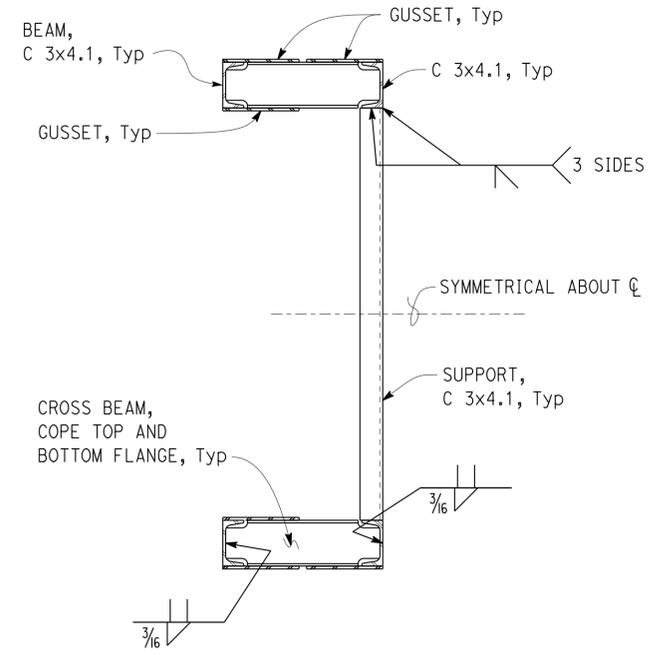
*Tahir Rashid*  
 REGISTERED CIVIL ENGINEER  
 11-15-2013 DATE  
 No. 61932  
 Exp. 9-30-15  
 CIVIL  
 STATE OF CALIFORNIA

3-24-14  
 PLANS APPROVAL DATE

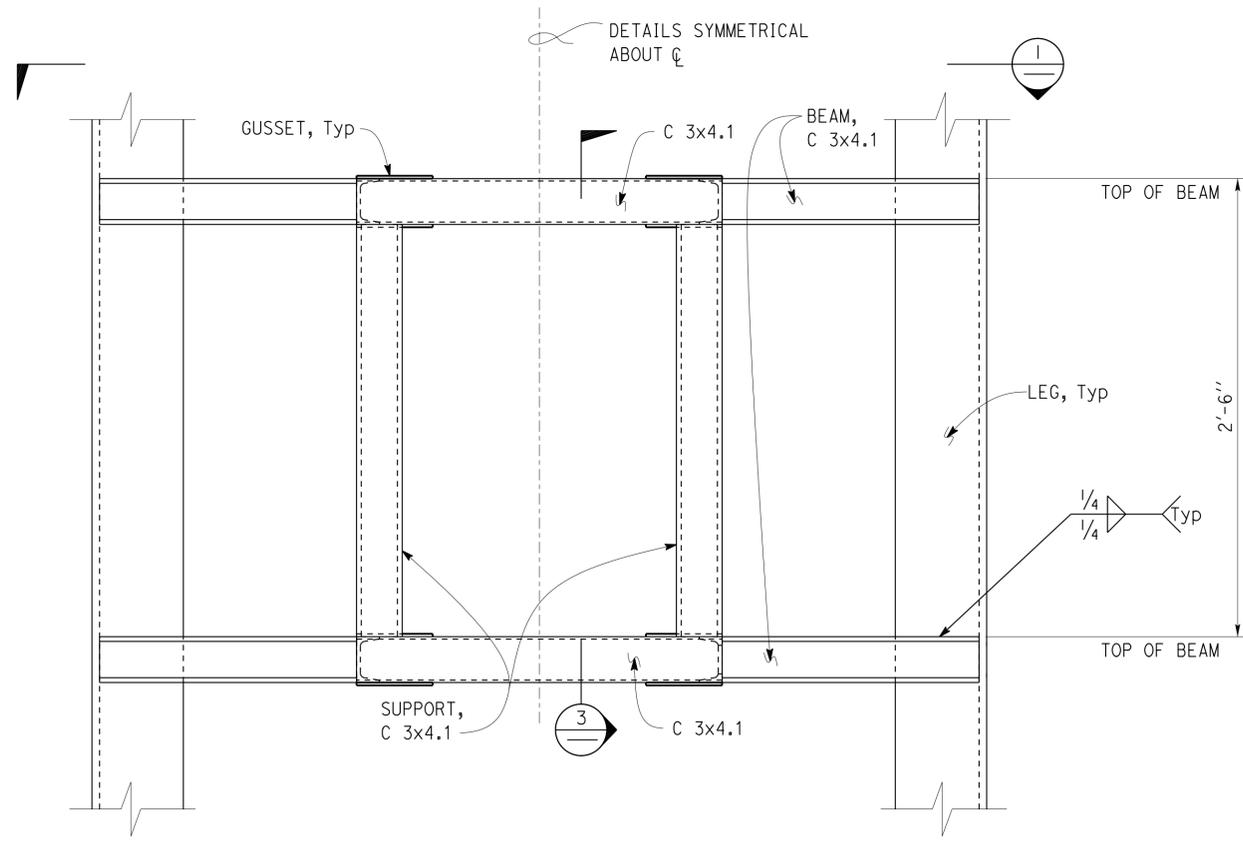
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.



1 CONTROL PANEL SUPPORT FRAME PLAN  
 Scale 2" = 1' - 0"



3 CONTROL PANEL SUPPORT FRAME SECTION  
 Scale 2" = 1' - 0"



2 CONTROL PANEL SUPPORT FRAME ELEVATION  
 Scale 2" = 1' - 0"

DESIGN	BY Tahir Rashid	CHECKED Edgardo Isidro
DETAILS	BY Aleksey Serin	CHECKED Tahir Rashid
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES  
 ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE No.	56M5730
POST MILE	

CONORA MAINTENANCE STATION  
 3000 GALLONS ASPHALTIC EMULSION TANK  
 EMULSION TANK DETAILS No. 4

SHEET ST2-9 OF

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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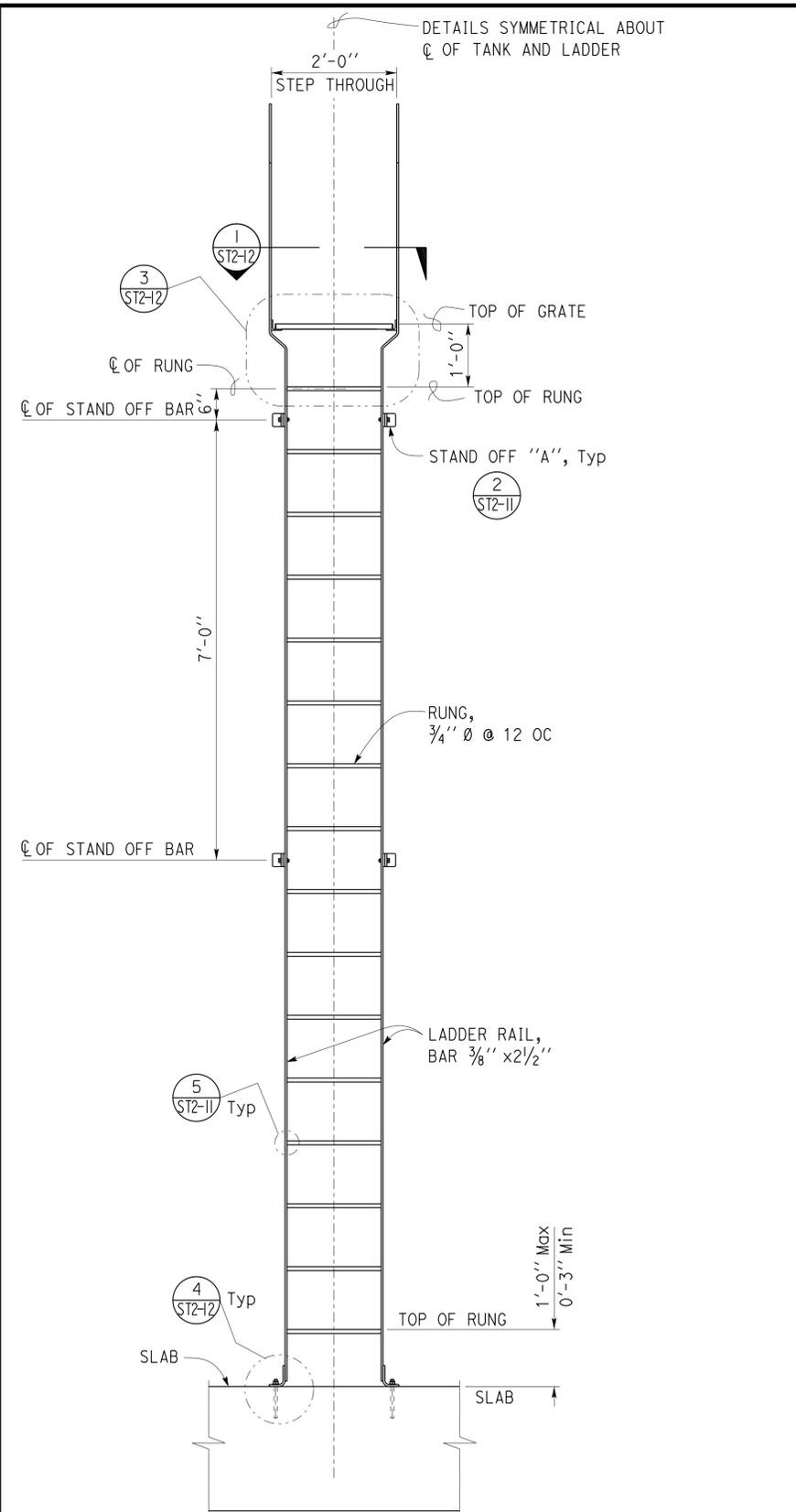
<i>Tahir Rashid</i>		11-15-2013
REGISTERED CIVIL ENGINEER	DATE	

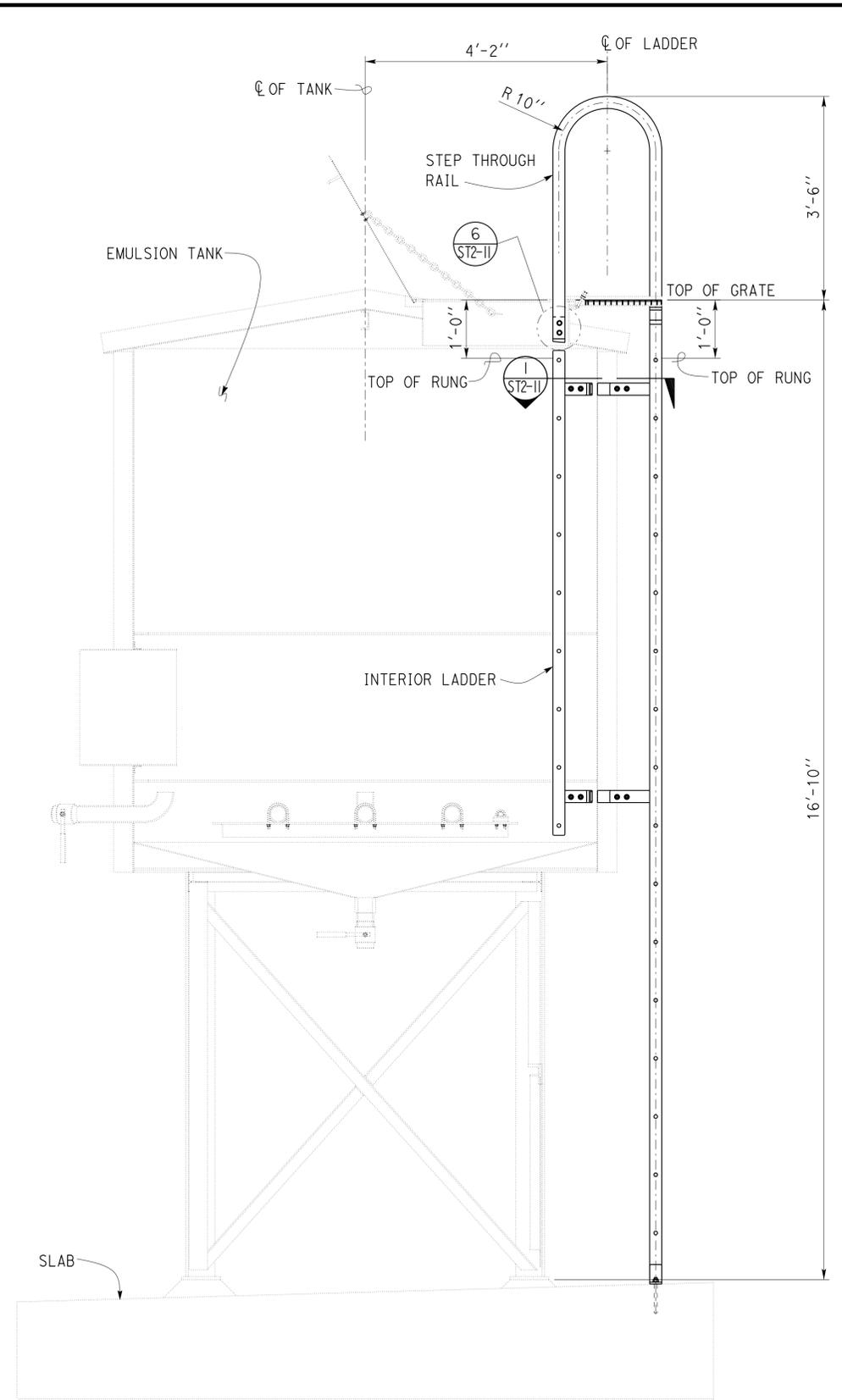
3-24-14
PLANS APPROVAL DATE

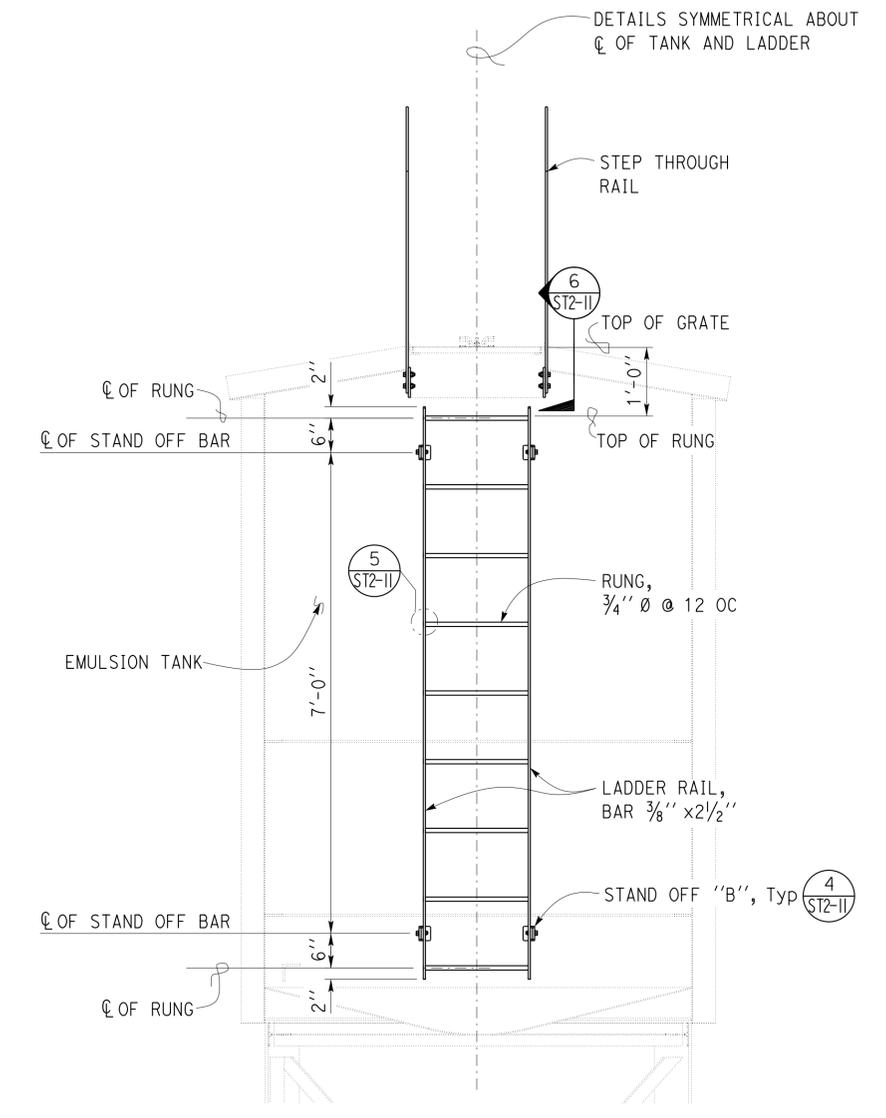
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**1 STEP THROUGH LADDER ELEVATION**  
Scale  $\frac{3}{4}'' = 1' - 0''$



**2 STEP THROUGH LADDER AND INTERIOR LADDER SECTION**  
Scale  $\frac{3}{4}'' = 1' - 0''$



**3 INTERIOR LADDER ELEVATION**  
Scale  $\frac{3}{4}'' = 1' - 0''$

NOTE:  
Emulsion Tank not Shown.

DESIGN BY Tahir Rashid	CHECKED Edgardo Isidro	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No. 56M5730	CONORA MAINTENANCE STATION		SHEET ST2-10
				POST MILE	3000 GALLONS ASPHALTIC EMULSION TANK	EMULSION TANK DETAILS No. 5	
DETAILS BY Aleksey Serin	CHECKED Tahir Rashid	UNIT: 3581 CONTRACT No.: 0R9701 PROJECT NUMBER & PHASE: 08120002241		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
QUANTITIES BY	CHECKED	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3		01-02-13	

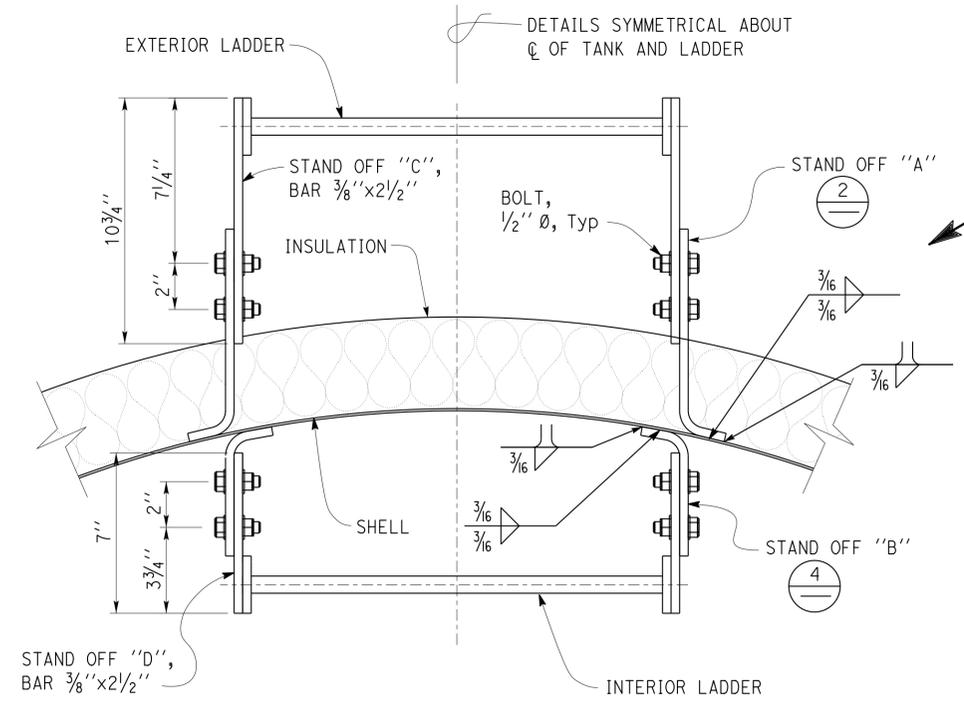
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		59	106

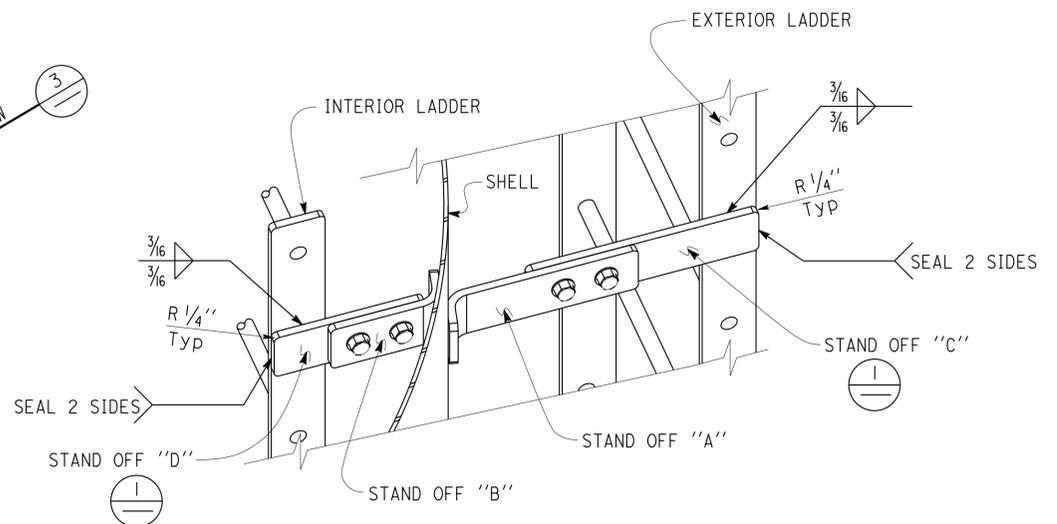
<i>Tahir Rashid</i>		11-15-2013	
REGISTERED CIVIL ENGINEER	DATE		
3-24-14			

PLANS APPROVAL DATE

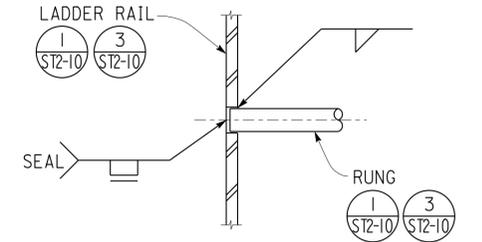
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.



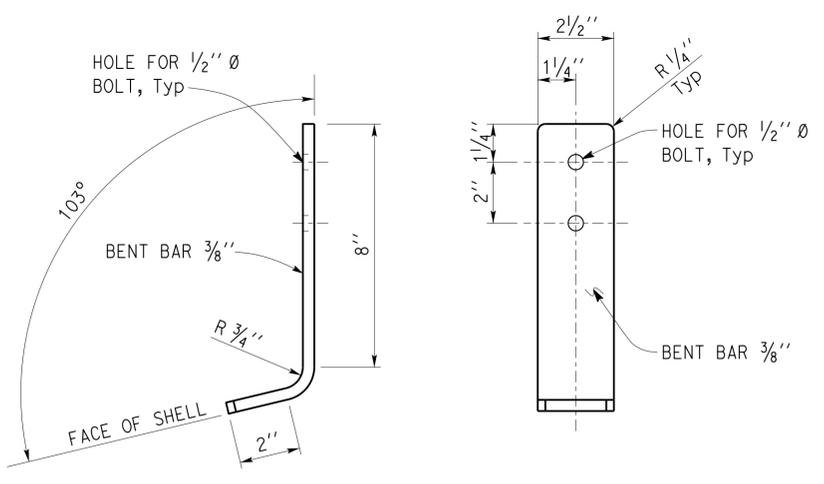
**1 STAND OFF PLAN**  
Scale 3" = 1' - 0"



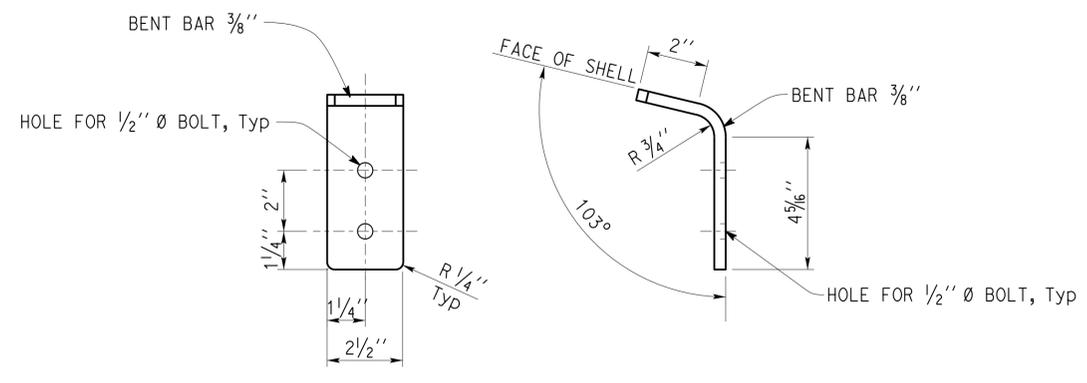
**3 STAND OFF 'C' & 'D' DETAILS**  
Scale 3" = 1' - 0"



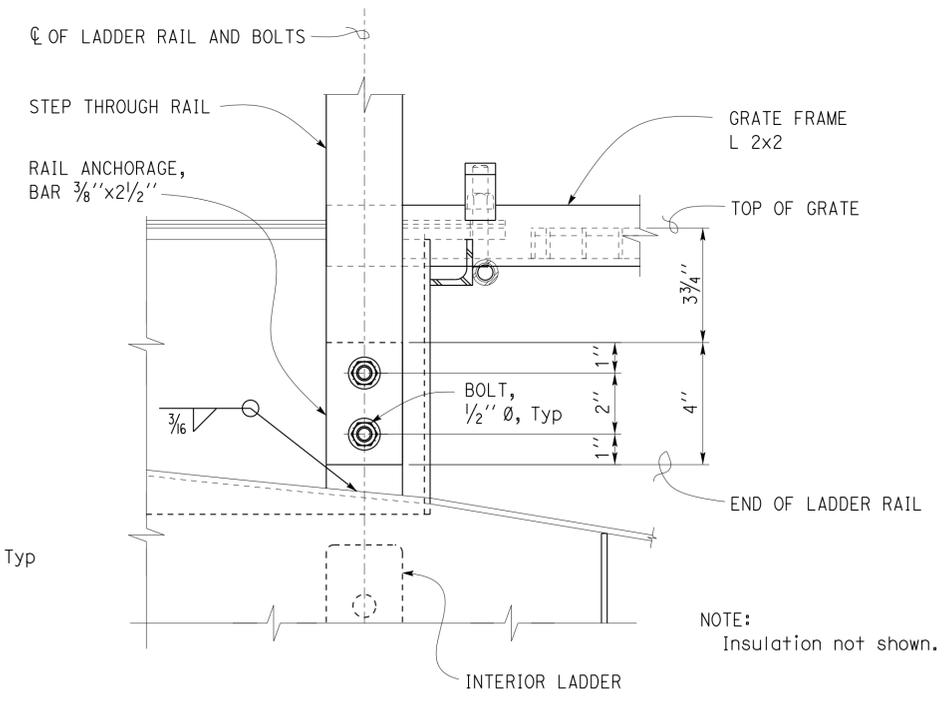
**5 RUNG WELD DETAIL**  
Scale 4" = 1' - 0"



**2 STAND OFF 'A' DETAILS**  
Scale 4" = 1' - 0"



**4 STAND OFF 'B' DETAILS**  
Scale 4" = 1' - 0"



**6 STEP THROUGH RAIL CONNECTION**  
No Scale

DESIGN BY	Tahir Rashid	CHECKED	Edgardo Isidro	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES <b>ARCHITECTURAL AND STRUCTURAL DESIGN</b>	BRIDGE No.	56M5730	<b>CONORA MAINTENANCE STATION</b> EMULSION TANK DETAILS No. 6	SHEET	ST2-11	
DETAILS BY	Aleksey Serin	CHECKED	Tahir Rashid			POST MILE	3000 GALLONS ASPHALTIC EMULSION TANK		REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF
QUANTITIES BY		CHECKED				UNIT: 3581 CONTRACT No.: 0R9701 PROJECT NUMBER & PHASE: 08120002241	DISREGARD PRINTS BEARING EARLIER REVISION DATES		01-02-13		

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

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Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		60	106

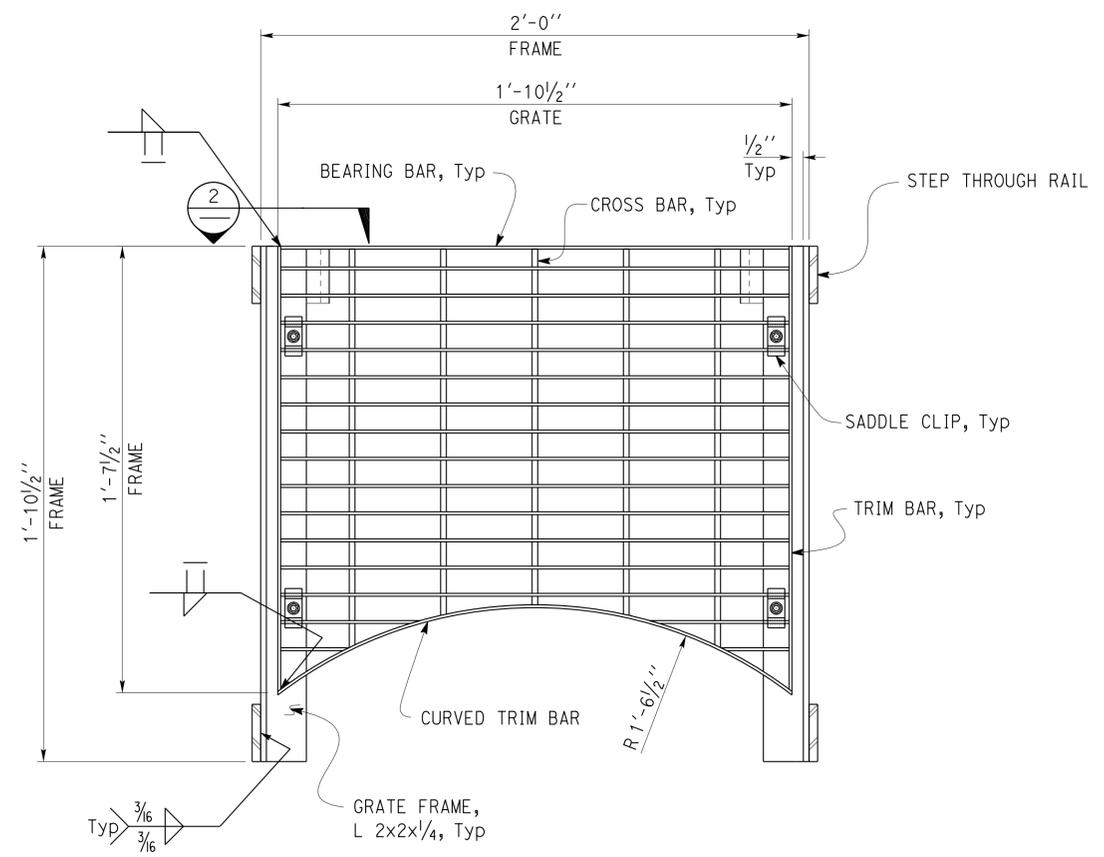
<i>Tahir Rashid</i>		11-15-2013
REGISTERED CIVIL ENGINEER		DATE

3-24-14
PLANS APPROVAL DATE

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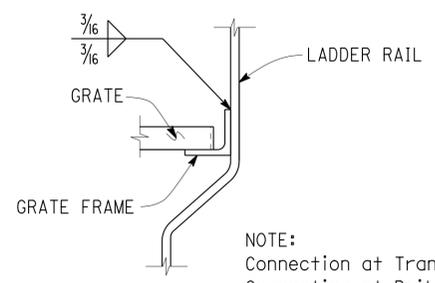


**WELDED STEEL GRATE**

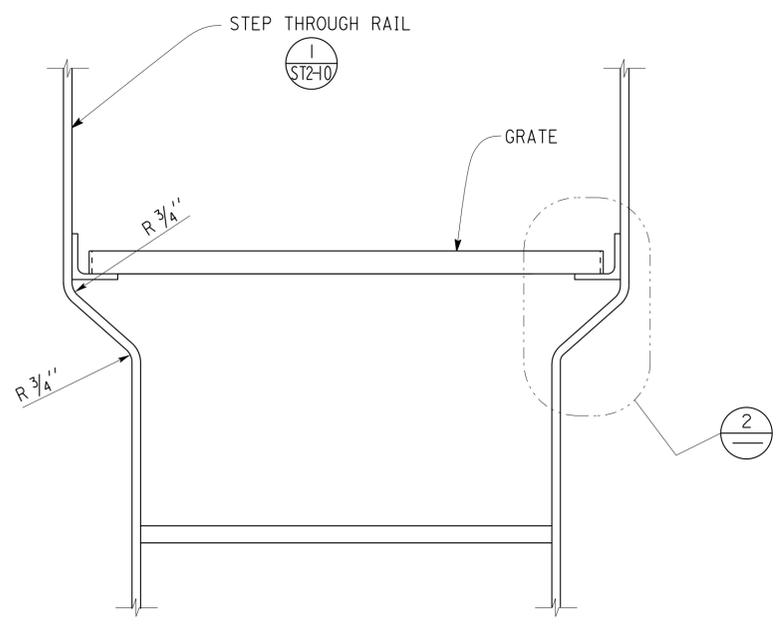
- Bearing Bars 1" x 1/8" @ 1 3/16" C-C
- Cross Bars @ 4" C-C
- Trim Bars 1" x 1/8" fillet welded to ends of Bearing Bars

Grate must be anchored to supports with 1/4" ø threaded stud and "Saddle Clip" type fastener, as recommended by the manufacturer. Fasteners must be installed maximum 4" from ends with 4 minimum per Grate.

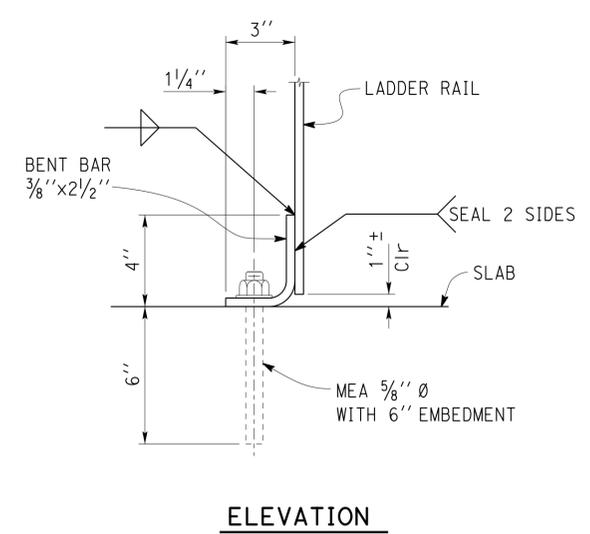
**1 WELDED STEEL GRATE PLAN**  
Scale 3" = 1' - 0"



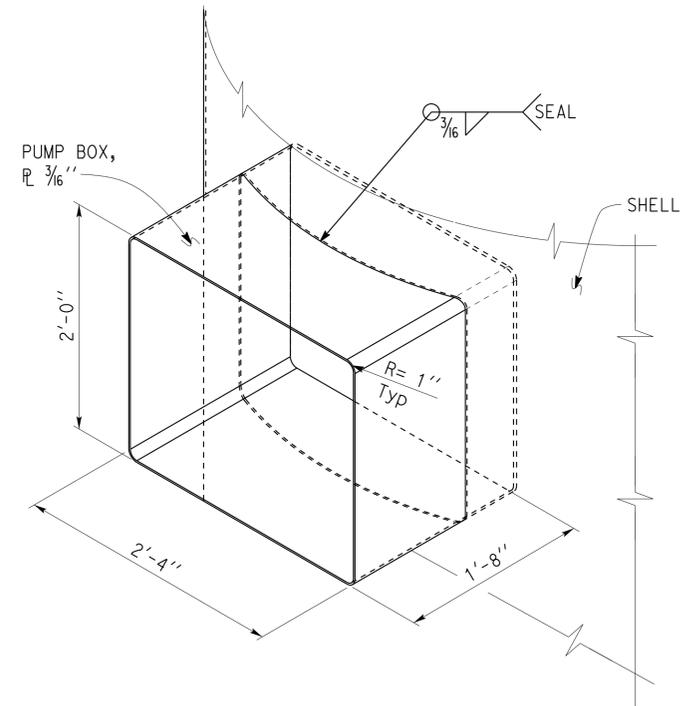
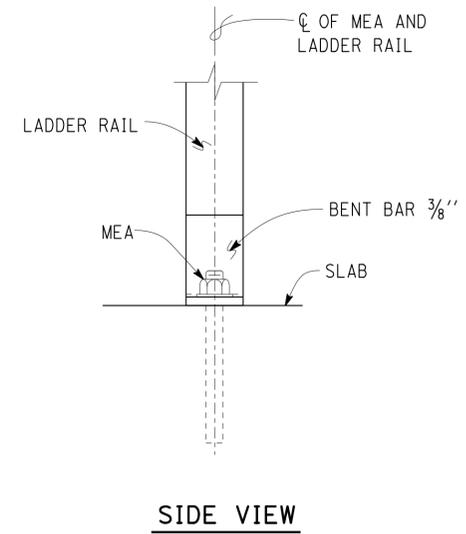
**2 GRATE FRAME TO LADDER RAIL DETAIL**  
Scale 3" = 1' - 0"



**3 STEP THROUGH RAIL DETAIL**  
Scale 3" = 1' - 0"



**4 LADDER RAIL ANCHORAGE DETAIL**  
Scale 3" = 1' - 0"



- NOTES:
- All welds used to form Pump Box must be liquid tight.
  - See Mechanical Plans.

**5 PUMP BOX DETAIL**  
Scale 1 1/2" = 1' - 0"

DESIGN BY Tahir Rashid	CHECKED Edgardo Isidro	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	BRIDGE No. 56M5730	<b>CONORA MAINTENANCE STATION</b>		SHEET <b>ST2-12</b>	
DETAILS BY Aleksey Serin	CHECKED Tahir Rashid		DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	POST MILE	3000 GALLONS ASPHALTIC EMULSION TANK	EMULSION TANK DETAILS No. 7	OF
QUANTITIES BY	CHECKED		UNIT: 3581 CONTRACT No.: 0R9701 PROJECT NUMBER & PHASE: 08120002241	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)		

# PROJECT DESIGN CRITERIA

The building work on this project has been designed to conform to the 2010 California Building Code (2009 IBC).

# DETAIL NOTES

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		61	106

  
 REGISTERED CIVIL ENGINEER DATE 11-15-2013  
 No. 61932  
 Exp. 9-30-15  
 CIVIL  
 STATE OF CALIFORNIA

3-24-14  
PLANS APPROVAL DATE

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**LOADS**

**SEISMIC:** Occupancy Category = I  
 Importance Factor I = 1.0  
 Site Soil Class = D  
 $S_S = 1.570$   $S_{DS} = 1.047$   
 $S_I = 0.640$   $S_{DI} = 0.640$   
 Seismic Design Category = D  
**Seismic Force-Resisting System:**  
 Cantilevered Column System  
North - South

$R = 1.25$   $C_S = 0.84$   
 Cantilevered Column System  
East - West

$R = 1.25$   $C_S = 0.84$

**WIND:** Basic Wind Speed = 90 mph  $I = 1.0$   
 $y = 1.21$   $P_{S30} = \pm 14.5$   
 $K_{zt} = 1.0$

**LIVE LOAD:** Roof = 20 psf  
 Material Bins:  
 Equivalent Fluid Pressure = 50 lb/ft<sup>3</sup>  
 Stored Material (Gravity) = 100 lb/ft<sup>3</sup>

- For Concrete see: "Concrete Standard"
- All bolts must be hex head machine bolts, with hex head nuts; unless otherwise noted.
- All lock washers must be helical spring lock washers.

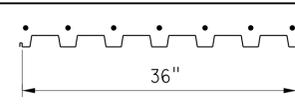
## A METAL/STEEL DECK NOTES

### METAL DECK MINIMUM SECTION PROPERTIES

Deck Type	Depth & Gage	Moment of Inertia	Positive Section Modulus	Negative Section Modulus	Minimum Yield Strength
Steel Deck	1/2" x 16 Ga	0.377 in <sup>4</sup> /ft	0.411 in <sup>3</sup> /ft	0.417 in <sup>3</sup> /ft	33 Ksi

NOTE:  
Minimum 3 Span Condition

### WELDING SCHEDULE and METAL DECK PROFILE

Steel Deck Profile	1/2" Diameter Puddle Weld			Diaphragm Shear Capacity
	Perpendicular Supports and Panel Ends	Parallel Supports	Side Laps	
	7 - Puddle Welds Per Support	12" OC	12" OC	2180 lb/ft

**MATERIALS**

**REINFORCED CONCRETE:** (Ultimate Strength Design) :  
 $f'_c = 3,000$  psi  
 $f_y = 60,000$  psi

**STRUCTURAL STEEL:** (Allowable Strength Design) :  
 Wide Flange  $F_y = 50$  ksi  
 Channels, Angles & Misc Shapes  $F_y = 36$  ksi  
 Plates  $F_y = 36$  ksi  
 Hollow Structural Section (HSS)  $F_y = 46$  ksi

**FOUNDATION:**  
 Soils report dated : N/A  
 Allowable Soil Pressure (DL + LL) : = 2,000 psf

DESIGN	BY Thomas Tong	CHECKED Tahir Rashid
DETAILS	BY Aleksey Serin	CHECKED Thomas Tong
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES  
ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE No. 56M5730  
POST MILE

CORONA MAINTENANCE STATION  
MATERIAL BINS DESIGN CRITERIA AND DETAIL NOTES

SHEET ST3-0 OF

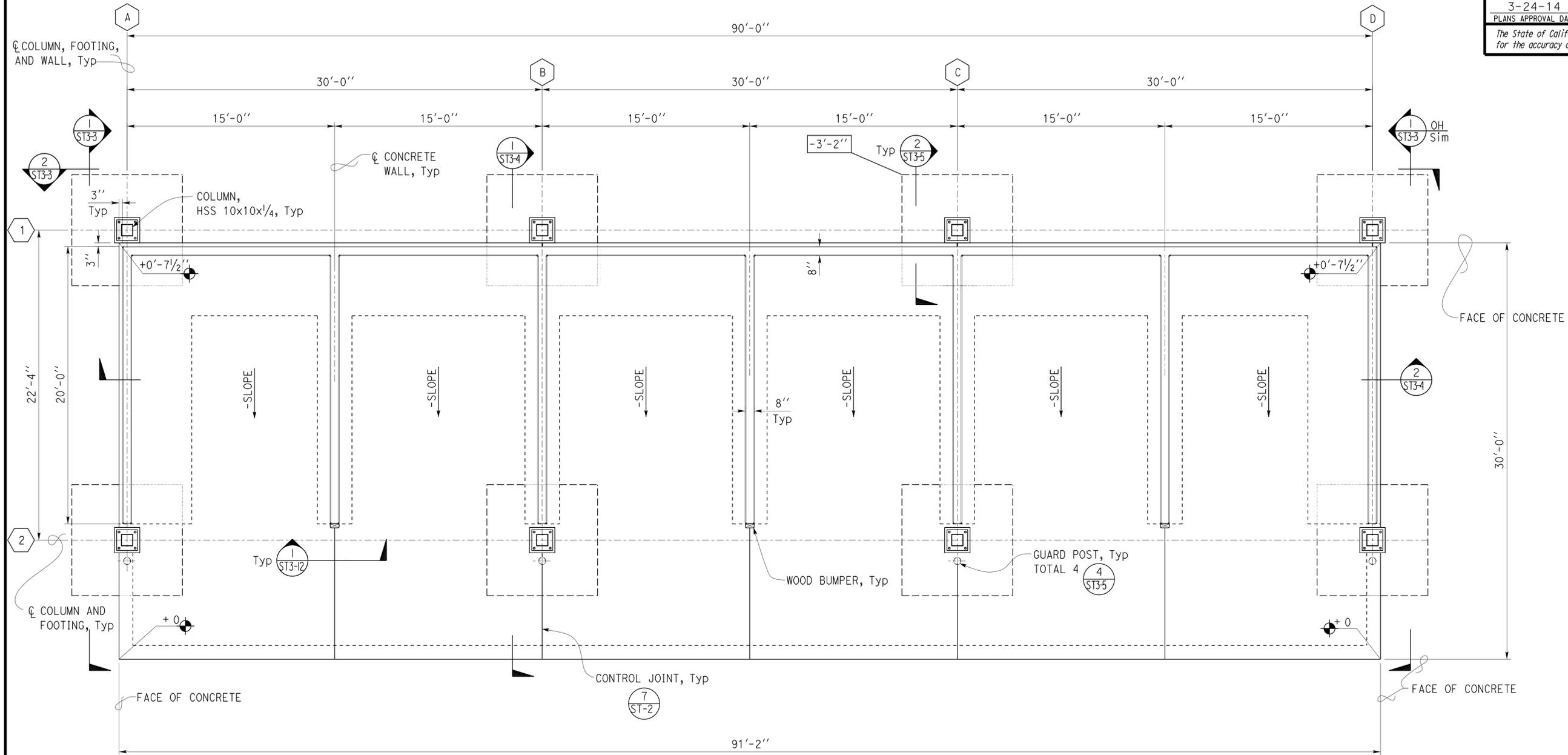
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		62	106

*Tahir Rashid*  
REGISTERED CIVIL ENGINEER  
11-15-2013  
DATE

REGISTERED PROFESSIONAL ENGINEER  
Tahir Rashid  
No. 61932  
Exp. 9-30-15  
CIVIL  
STATE OF CALIFORNIA

3-24-14  
PLANS APPROVAL DATE

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

 DESIGN ENGINEER	DESIGN BY Thomas Tong	CHECKED Tahir Rashid	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES <b>ARCHITECTURAL AND STRUCTURAL DESIGN</b>	BRIDGE No. 56M5730	<b>CORONA MAINTENANCE STATION</b> FOUNDATION PLAN	SHEET <b>ST3-1</b> OF
	DETAILS BY Aleksey Serin	CHECKED Thomas Tong			POST MILE		
QUANTITIES		CHECKED	UNIT: 3581 CONTRACT No.: 0R9701 PROJECT NUMBER & PHASE: 08120002241		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY) 12-14-13, 1-15-13, 8-26-13

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ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

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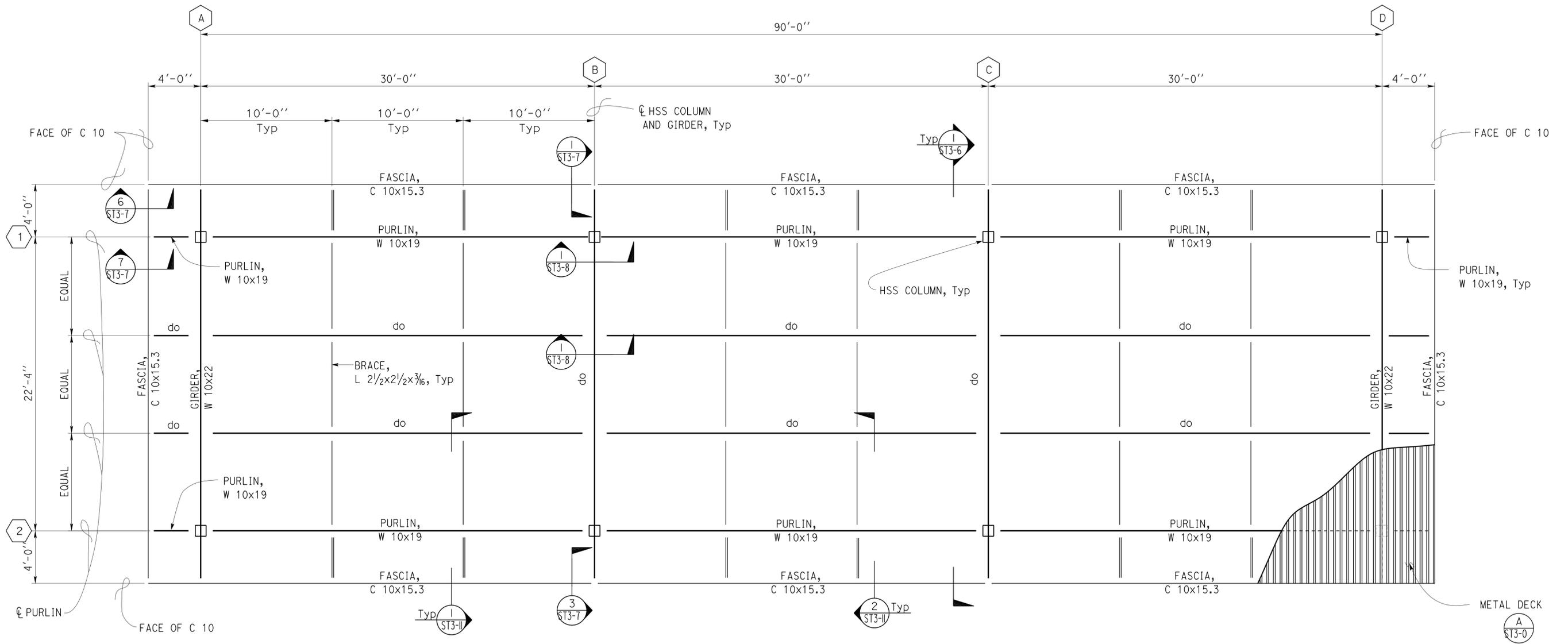
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		63	106

*Tahir Rashid*  
REGISTERED CIVIL ENGINEER  
DATE 11-15-2013

REGISTERED PROFESSIONAL ENGINEER  
Tahir Rashid  
No. 61932  
Exp. 9-30-15  
CIVIL  
STATE OF CALIFORNIA

3-24-14  
PLANS APPROVAL DATE

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**1 ROOF FRAMING PLAN**  
Scale 1/4" = 1' - 0"

DESIGN BY	Thomas Tong	CHECKED	Tahir Rashid
DETAILS BY	Aleksey Serin	CHECKED	Thomas Tong
QUANTITIES BY		CHECKED	

**STATE OF CALIFORNIA**  
DEPARTMENT OF TRANSPORTATION

**DIVISION OF ENGINEERING SERVICES**  
**ARCHITECTURAL AND STRUCTURAL DESIGN**

BRIDGE No.	56M5730
POST MILE	

**CORONA MAINTENANCE STATION**

MATERIAL BINS

**ROOF FRAMING PLAN**

SHEET **ST3-2** OF

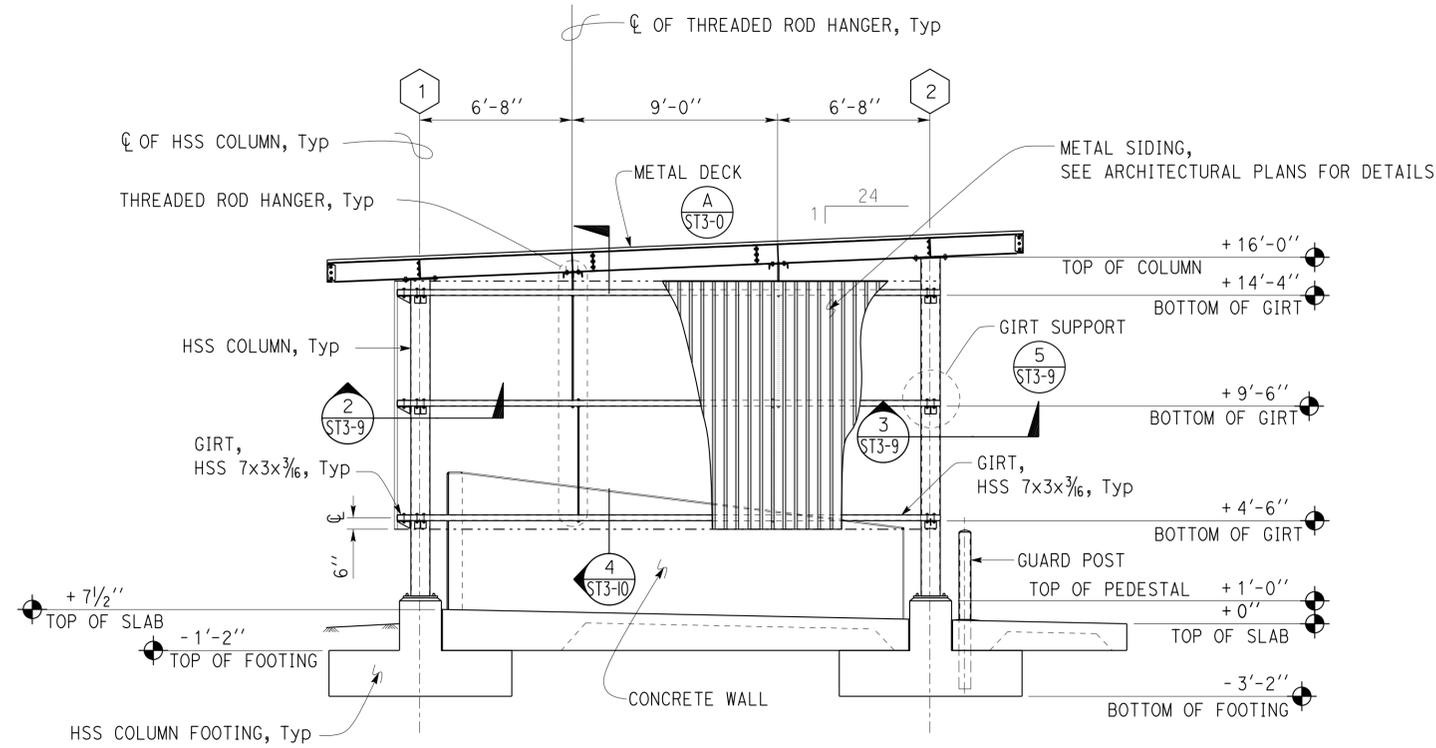
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		64	106

*Tahir Rashid*  
 REGISTERED CIVIL ENGINEER  
 No. 61932  
 Exp. 9-30-15  
 CIVIL  
 STATE OF CALIFORNIA

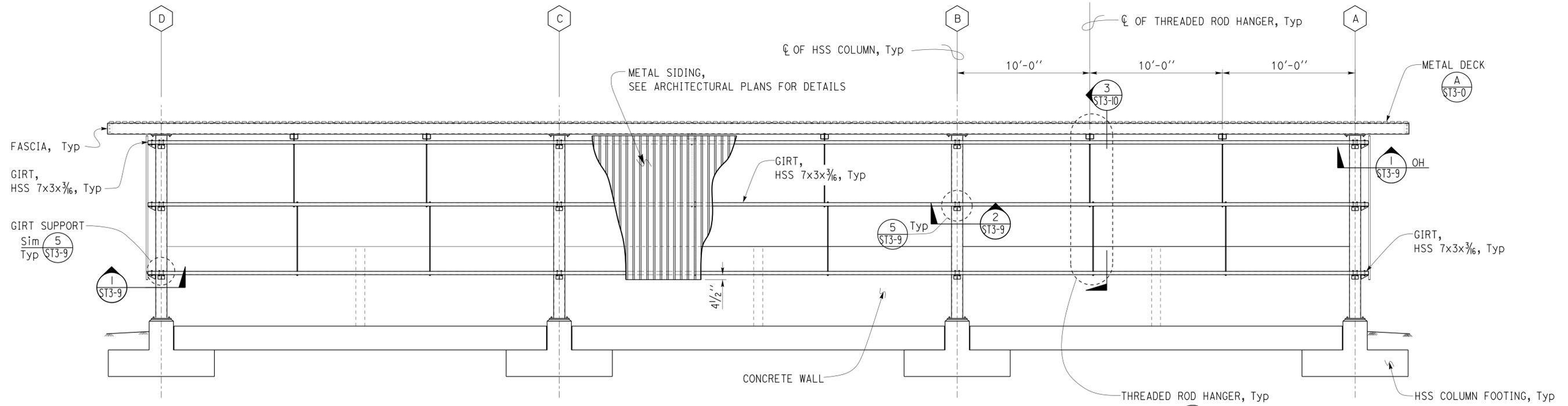
11-15-2013  
 DATE

3-24-14  
 PLANS APPROVAL DATE

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1 CANOPY TRANSVERSE ELEVATION  
 Scale 1/4" = 1' - 0"



2 CANOPY REAR ELEVATION  
 Scale 1/4" = 1' - 0"

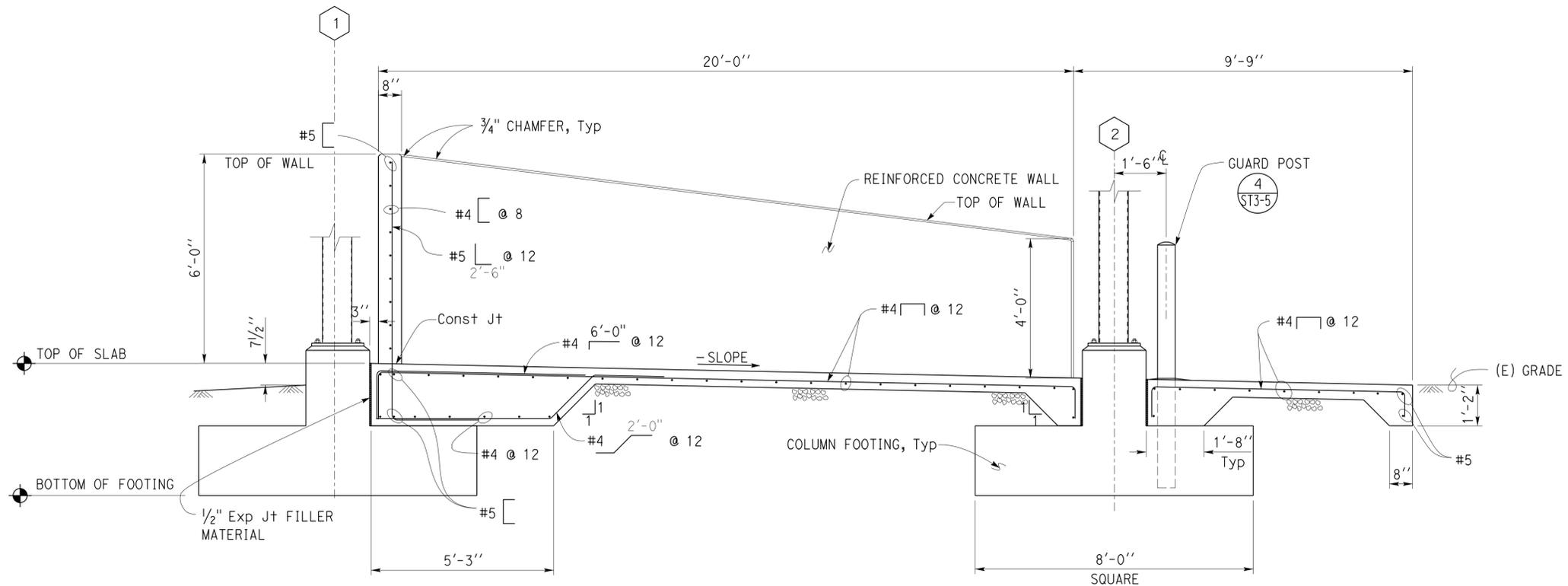
DESIGN BY Thomas Tong DETAILS BY Aleksey Serin QUANTITIES BY	CHECKED Tahir Rashid CHECKED Thomas Tong CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No. 56M5730	CORONA MAINTENANCE STATION		SHEET ST3-3
				POST MILE	ELEVATIONS		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		UNIT: 3581 CONTRACT No.: 0R9701 PROJECT NUMBER & PHASE: 08120002241	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF	

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		65	106

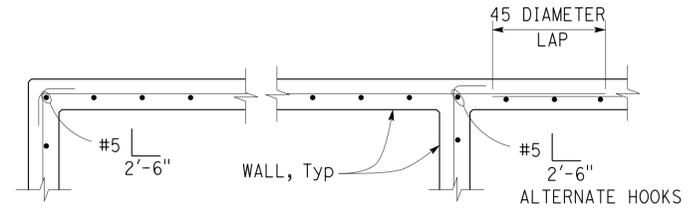
*Tahir Rashid*  
 REGISTERED CIVIL ENGINEER  
 11-15-2013 DATE  
 No. 61932  
 Exp. 9-30-15  
 CIVIL  
 STATE OF CALIFORNIA

3-24-14  
 PLANS APPROVAL DATE

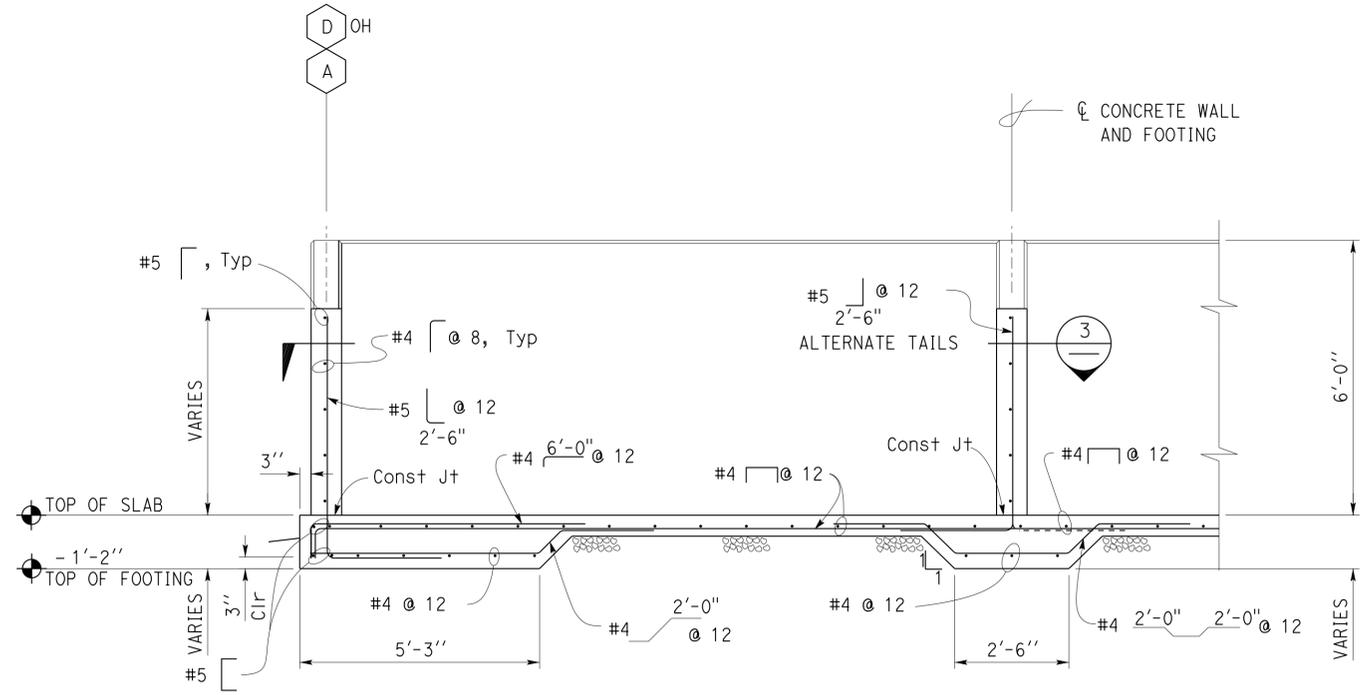
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.



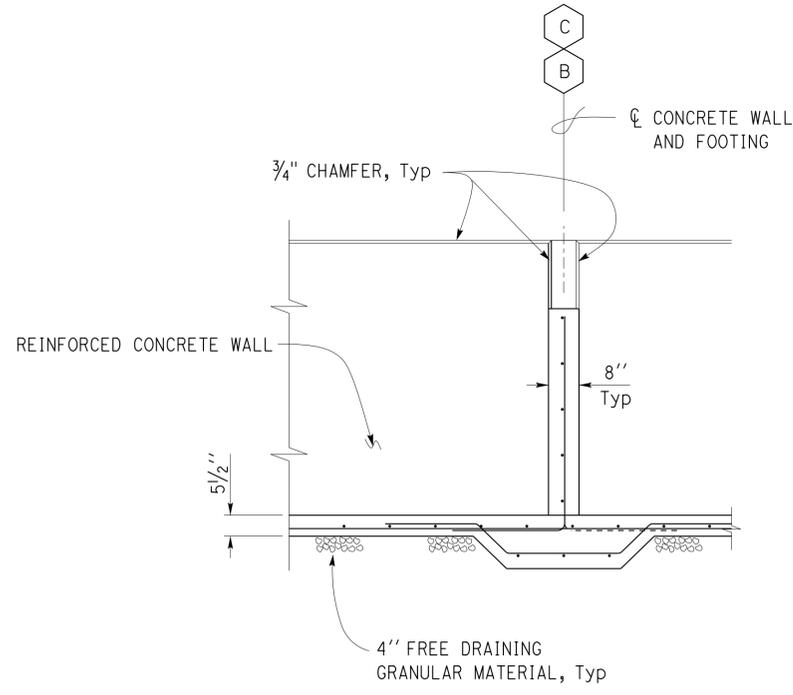
1 TRANSVERSE SECTION  
 Scale 1/2" = 1' - 0"



3 BAR ARRANGEMENT DETAIL  
 Scale 1/2" = 1' - 0"



2 PARTIAL LONGITUDINAL SECTION  
 Scale 1/2" = 1' - 0"



DESIGN BY Thomas Tong	CHECKED Tahir Rashid	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No. 56M5730	CORONA MAINTENANCE STATION		SHEET
DETAILS BY Aleksey Serin	CHECKED Thomas Tong			POST MILE	MATERIAL BINS	WALL AND SLAB SECTIONS	ST3-4
QUANTITIES BY	CHECKED						
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3	UNIT: 3581 CONTRACT No.: 0R9701 PROJECT NUMBER & PHASE: 08120002241	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		66	106

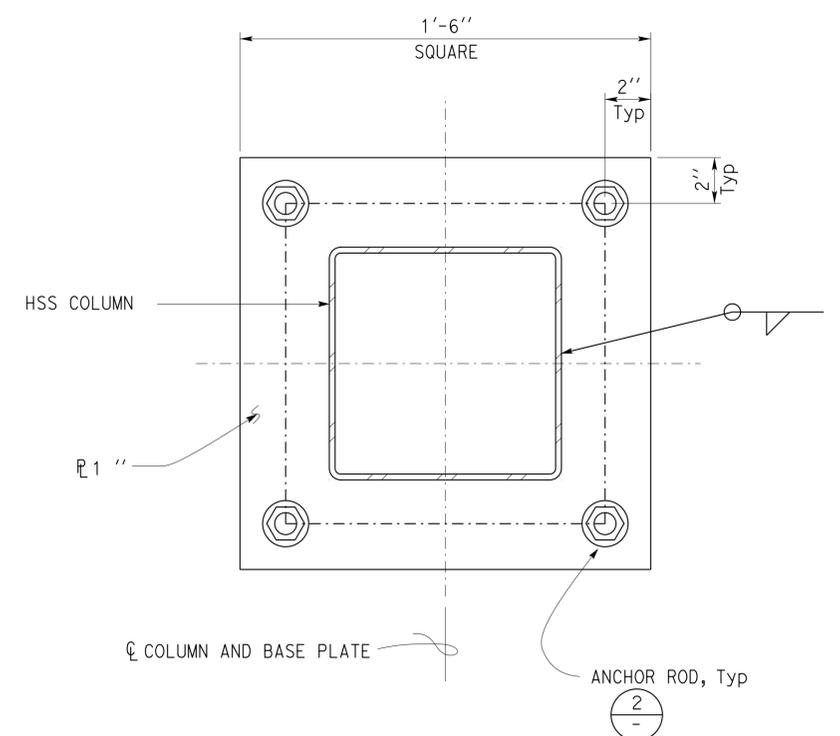
<i>Tahir Rashid</i>		11-15-2013
REGISTERED CIVIL ENGINEER	DATE	

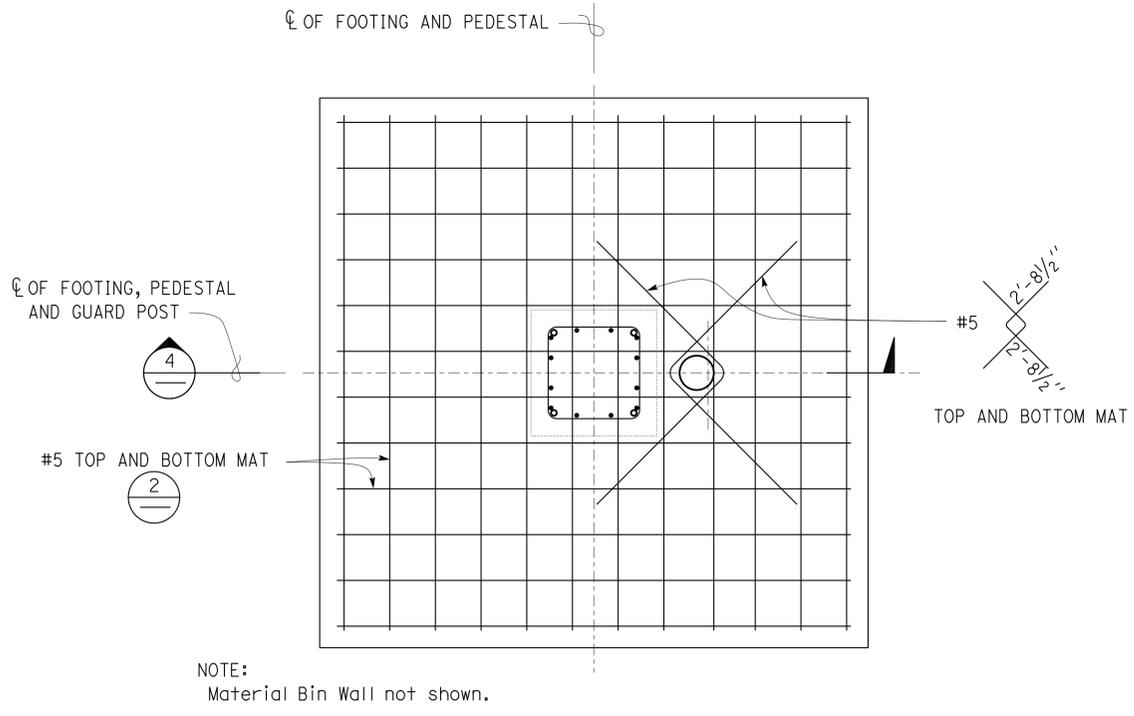
3-24-14
PLANS APPROVAL DATE

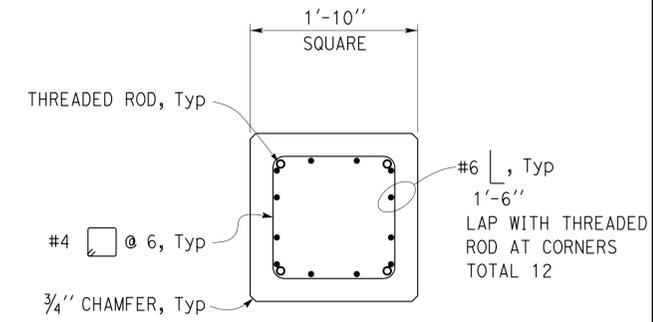
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.



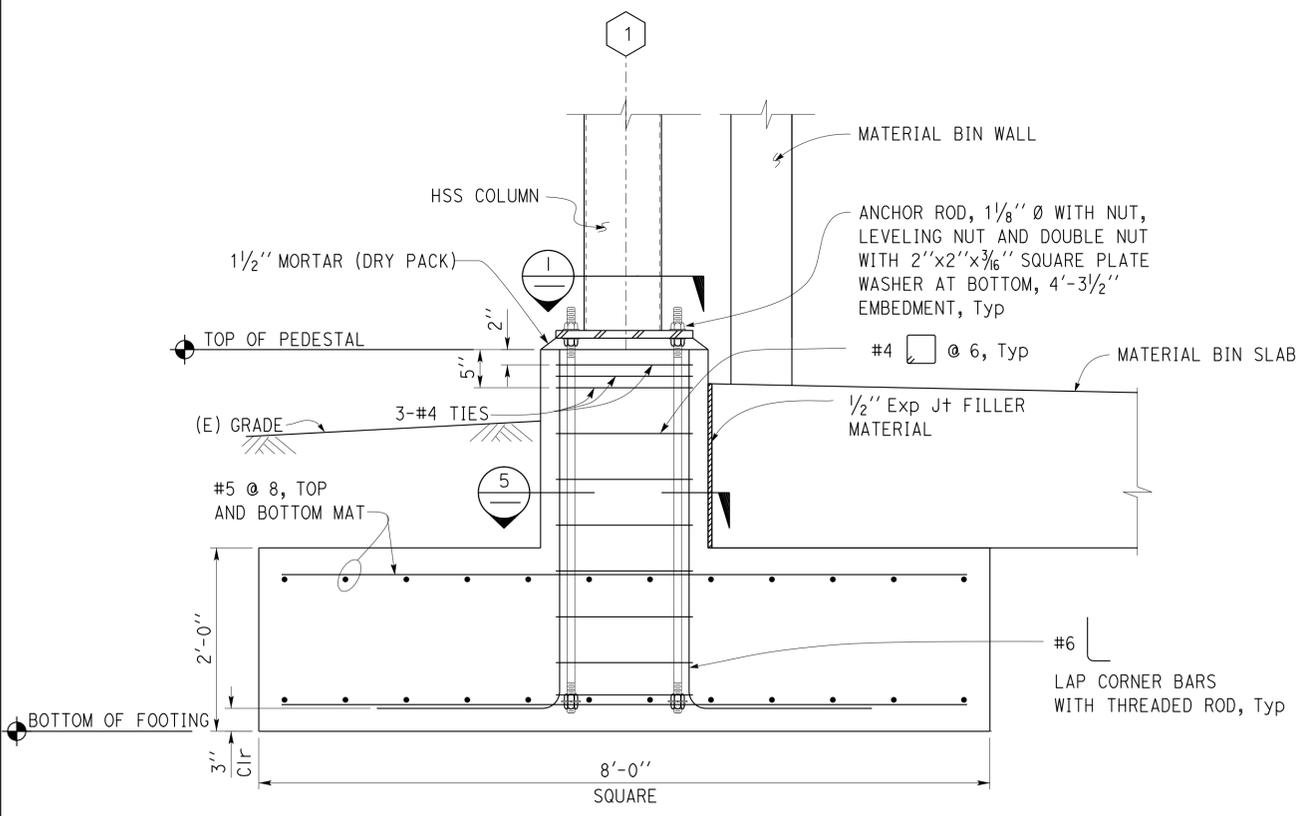
**1 HSS COLUMN BASE PLATE PLAN**  
Scale 3" = 1' - 0"



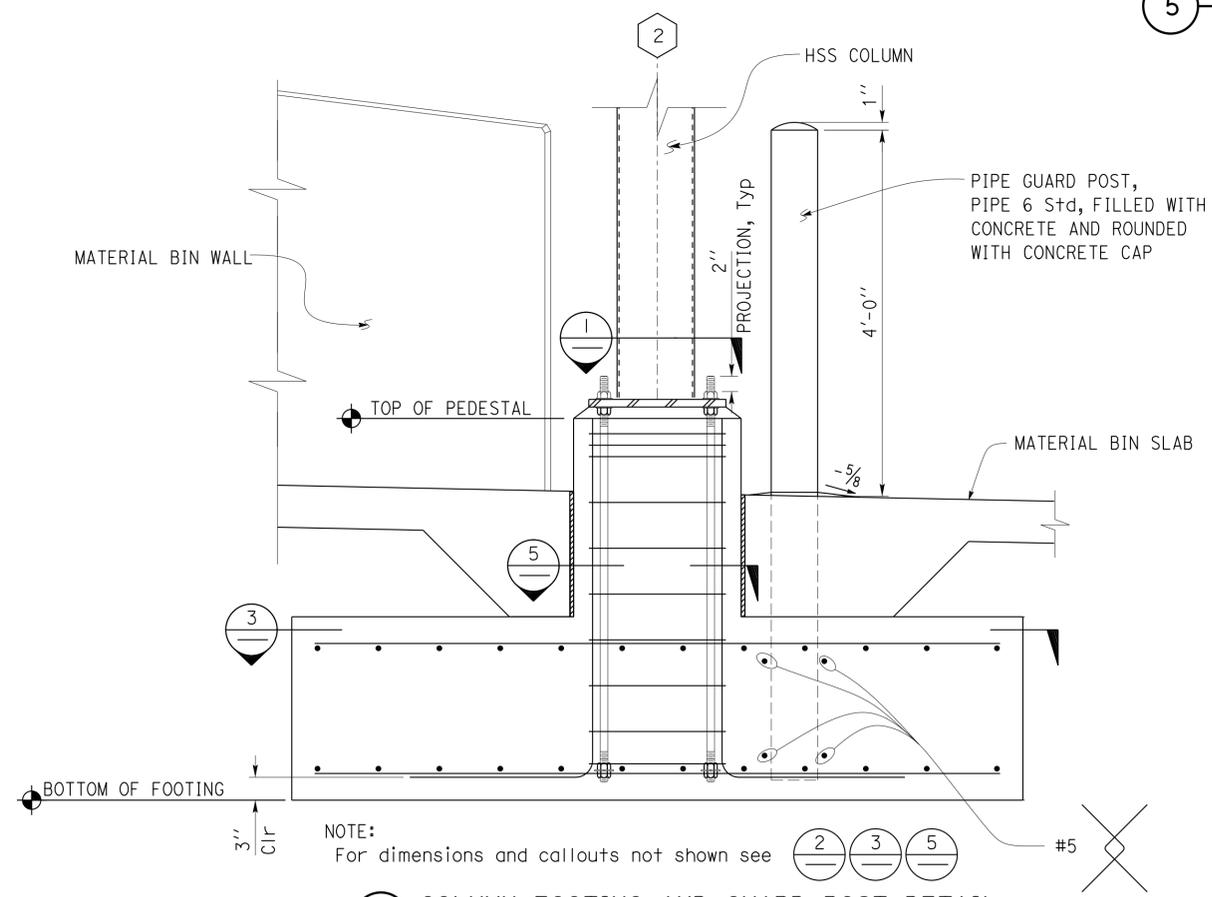
**2 COLUMN FOOTING AND GUARD POST PLAN**  
Scale 3/4" = 1' - 0"



**3 COLUMN PEDESTAL SECTION**  
Scale 1" = 1' - 0"



**4 COLUMN FOOTING PLAN**  
Scale 1" = 1' - 0"



**5 COLUMN FOOTING AND GUARD POST DETAIL**  
Scale 1" = 1' - 0"

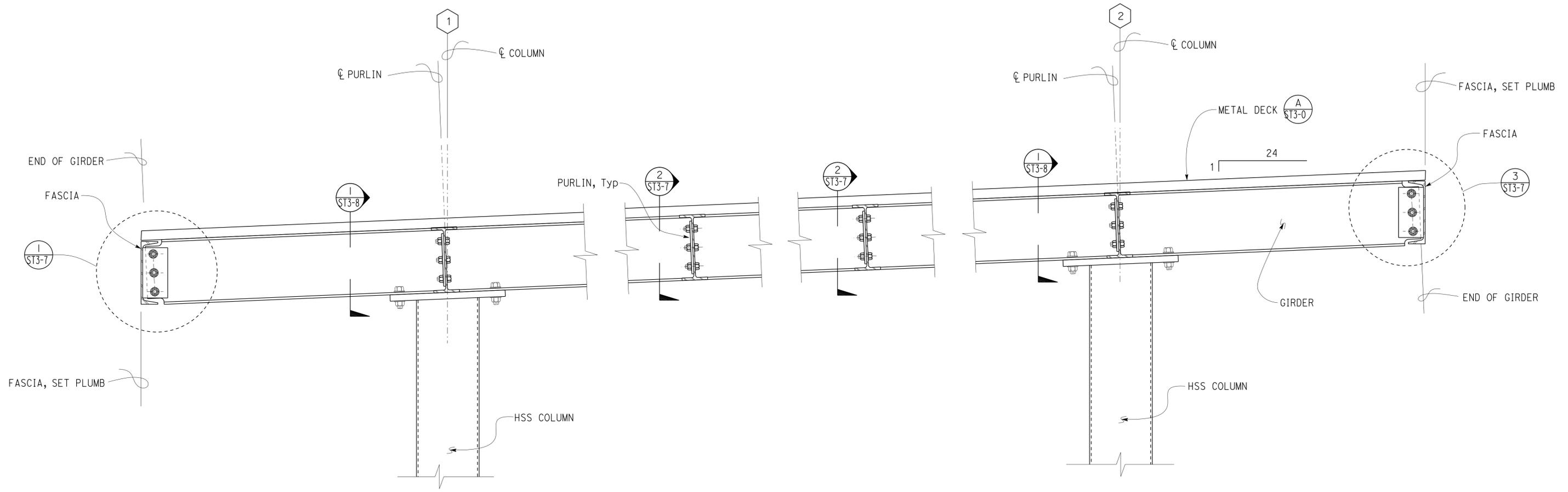
DESIGN BY Thomas Tong	CHECKED Tahir Rashid	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	BRIDGE No. 56M5730	<b>CORONA MAINTENANCE STATION</b>		SHEET <b>ST3-5</b>
DETAILS BY Aleksey Serin	CHECKED Thomas Tong		POST MILE	MATERIAL BINS	CANOPY FOOTING DETAILS	OF
QUANTITIES BY	CHECKED		UNIT: 3581 CONTRACT No.: 0R9701 PROJECT NUMBER & PHASE: 08120002241	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		67	106

*Tahir Rashid*  
 REGISTERED CIVIL ENGINEER  
 11-15-2013  
 DATE

3-24-14  
 PLANS APPROVAL DATE

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**1 PARTIAL ROOF SECTION**  
 Scale 1 1/2" = 1' - 0"

DESIGN	BY Thomas Tong	CHECKED Tahir Rashid
DETAILS	BY Aleksey Serin	CHECKED Thomas Tong
QUANTITIES	BY	CHECKED

**STATE OF CALIFORNIA**  
 DEPARTMENT OF TRANSPORTATION

**DIVISION OF ENGINEERING SERVICES**  
**ARCHITECTURAL AND STRUCTURAL DESIGN**

BRIDGE No.	56M5730
POST MILE	

**CORONA MAINTENANCE STATION**  
 MATERIAL BINS  
**CANOPY SECTION AND DETAILS**

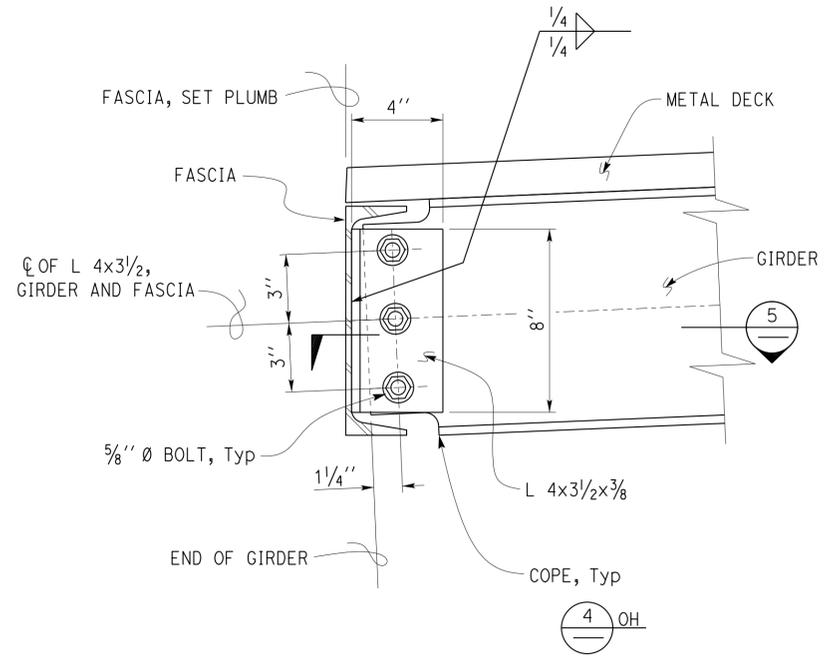
SHEET **ST3-6** OF

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		68	106

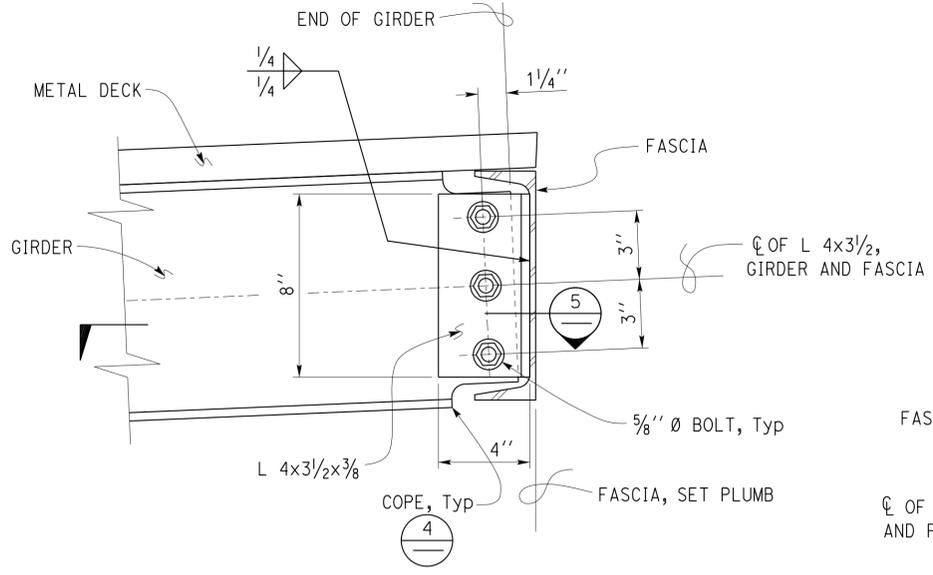
*Tahir Rashid*  
 REGISTERED CIVIL ENGINEER  
 DATE 11-15-2013  
 No. 61932  
 Exp. 9-30-15  
 CIVIL  
 STATE OF CALIFORNIA

3-24-14  
 PLANS APPROVAL DATE

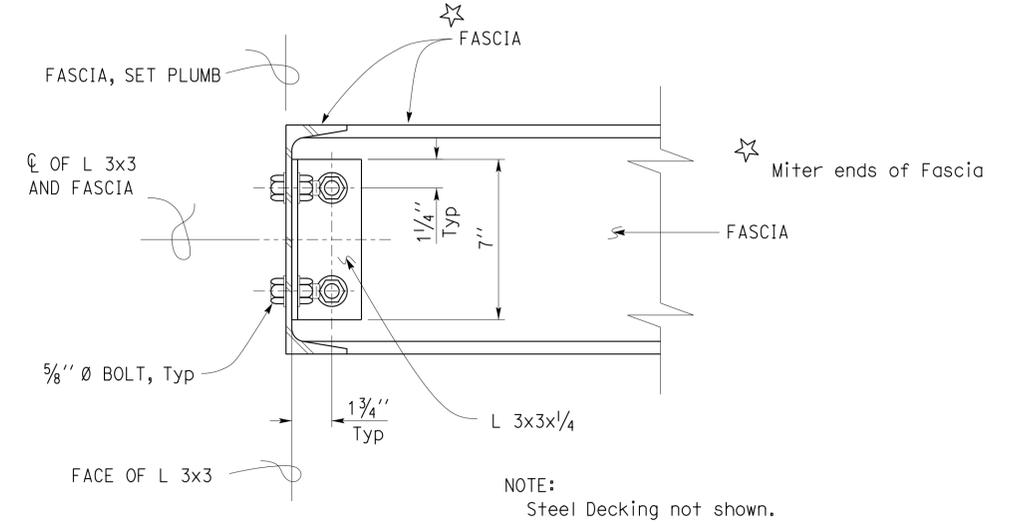
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.



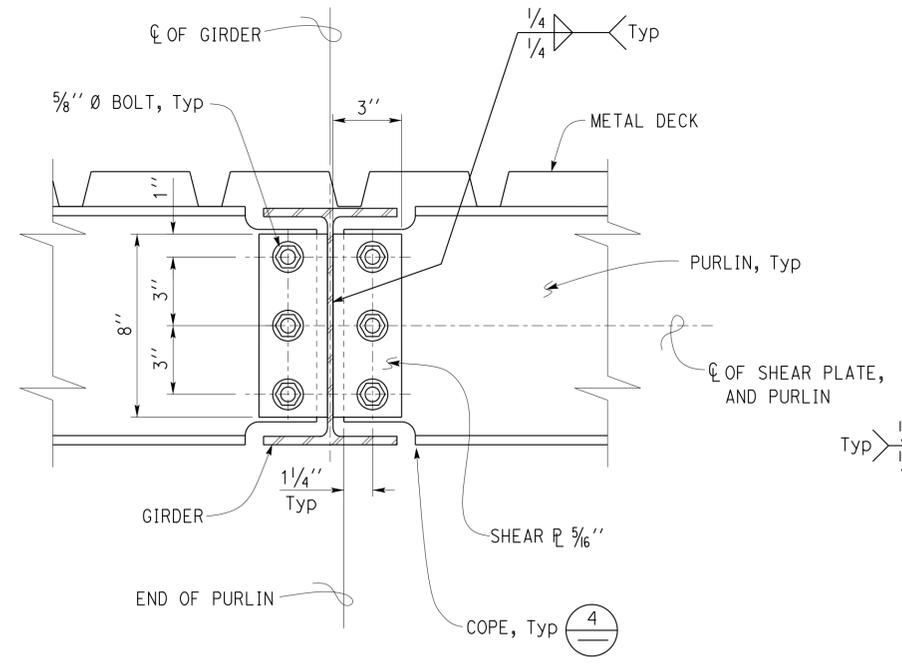
**1** GIRDER TO FASCIA CONNECTION  
 Scale 3" = 1' - 0"



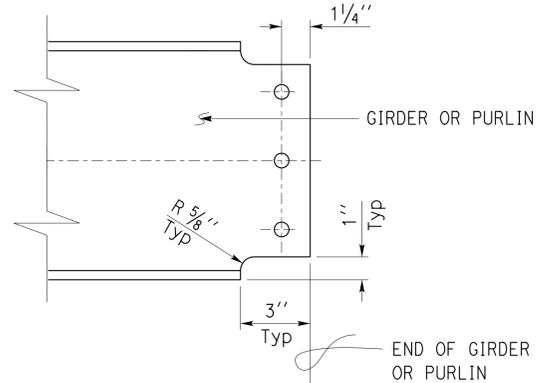
**3** GIRDER TO FASCIA CONNECTION  
 Scale 3" = 1' - 0"



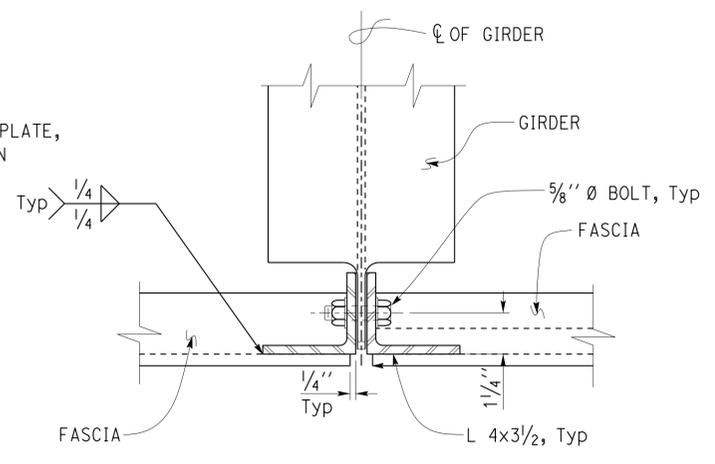
**6** FASCIA TO FASCIA CONNECTION  
 Scale 3" = 1' - 0"



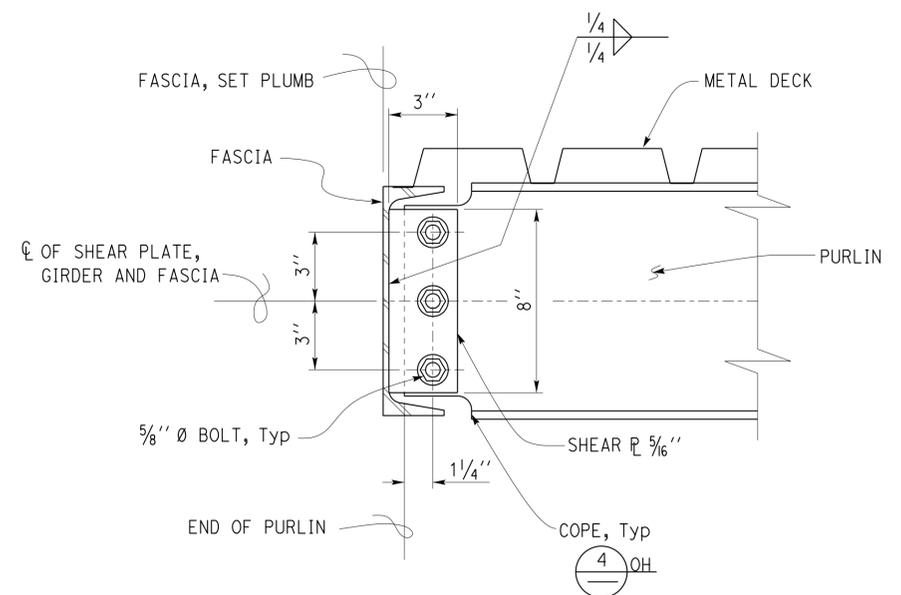
**2** PURLIN TO GIRDER CONNECTION  
 Scale 3" = 1' - 0"



**4** GIRDER OR PURLIN COPING DETAIL  
 Scale 3" = 1' - 0"



**5** GIRDER TO FASCIA CONNECTION  
 Scale 3" = 1' - 0"



**7** PURLIN TO FASCIA CONNECTION  
 Scale 3" = 1' - 0"

DESIGN BY	Thomas Tong	CHECKED	Tahir Rashid
DETAILS BY	Aleksey Serin	CHECKED	Thomas Tong
QUANTITIES BY		CHECKED	

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES  
 ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE No. 56M5730  
 POST MILE

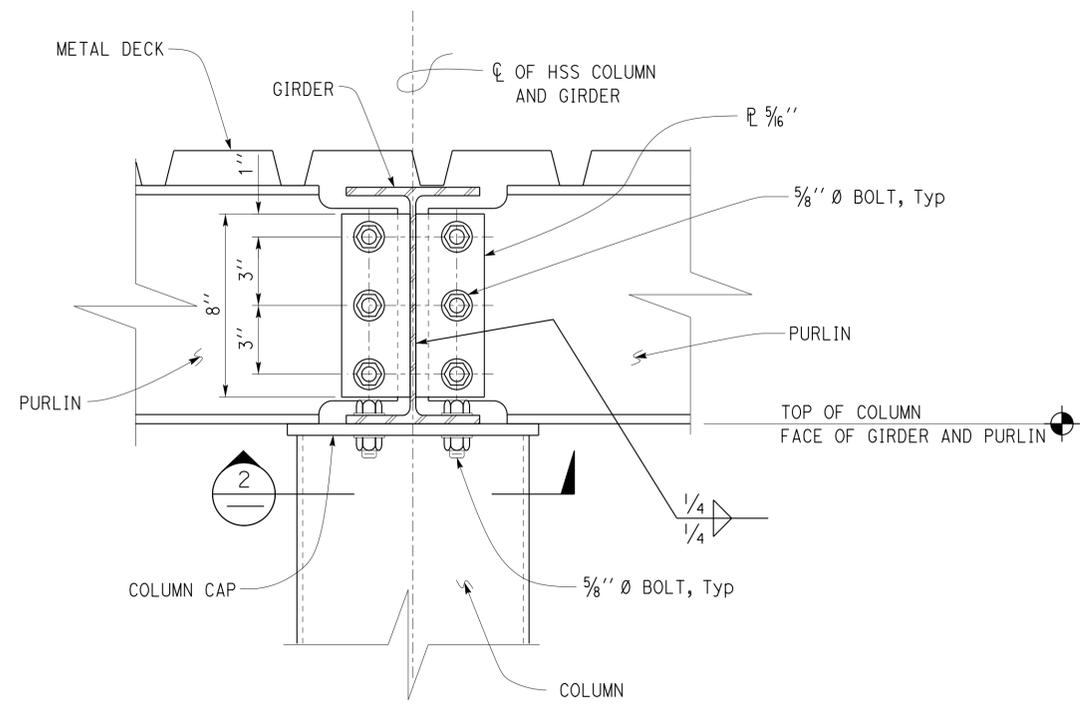
CORONA MAINTENANCE STATION  
 CANOPY DETAILS I

SHEET ST3-7 OF

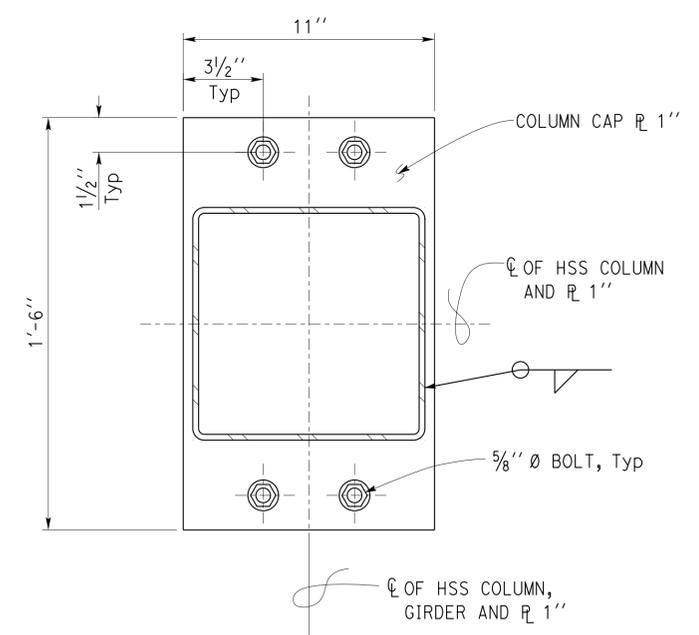
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		69	106

*Tahir Rashid*  
 REGISTERED CIVIL ENGINEER  
 DATE 11-15-2013  
 No. 61932  
 Exp. 9-30-15  
 CIVIL  
 STATE OF CALIFORNIA

3-24-14  
 PLANS APPROVAL DATE  
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1 GIRDER TO PURLIN CONNECTION  
 Scale 3" = 1' - 0"



2 COLUMN CAP DETAIL  
 Scale 3" = 1' - 0"

DESIGN	BY Thomas Tong	CHECKED Tahir Rashid
DETAILS	BY Aleksey Serin	CHECKED Thomas Tong
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES  
 ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE No.	56M5730
POST MILE	

CORONA MAINTENANCE STATION  
 MATERIAL BINS  
 CANOPY DETAILS 2

SHEET ST3-8 OF

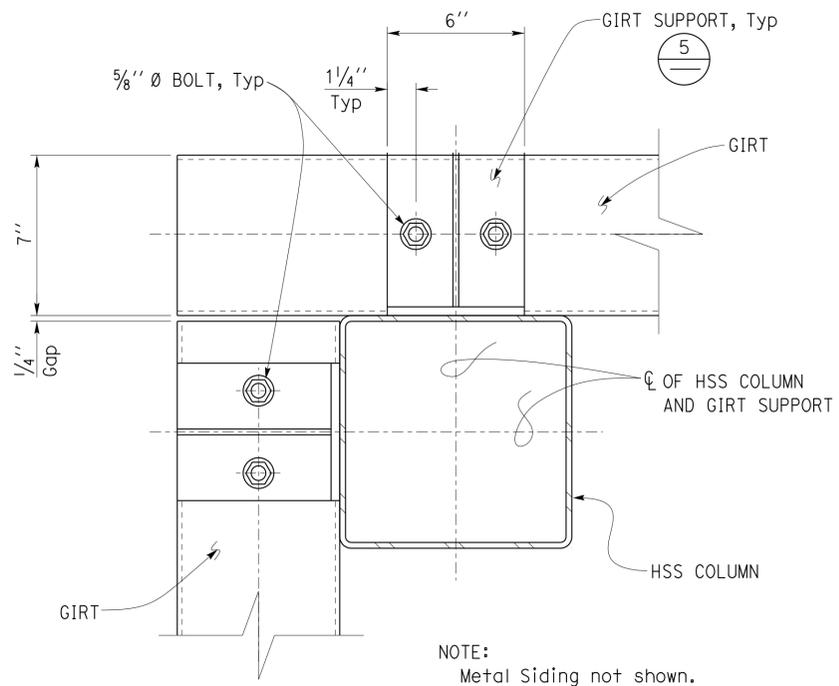
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		70	106

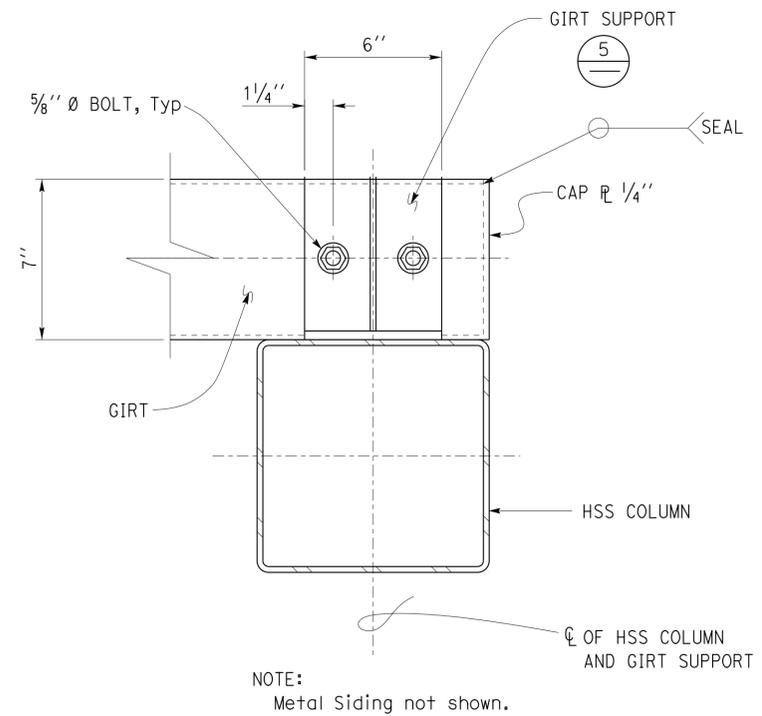
 REGISTERED CIVIL ENGINEER		11-15-2013 DATE
3-24-14 PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.		

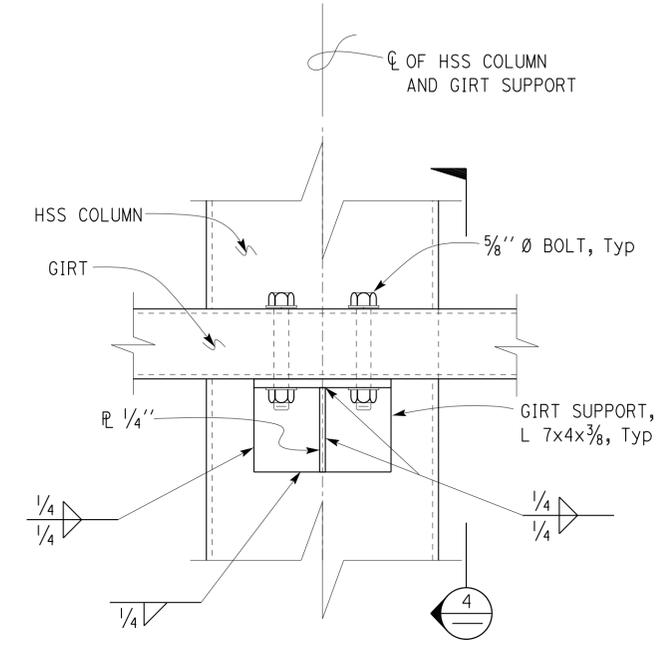
	
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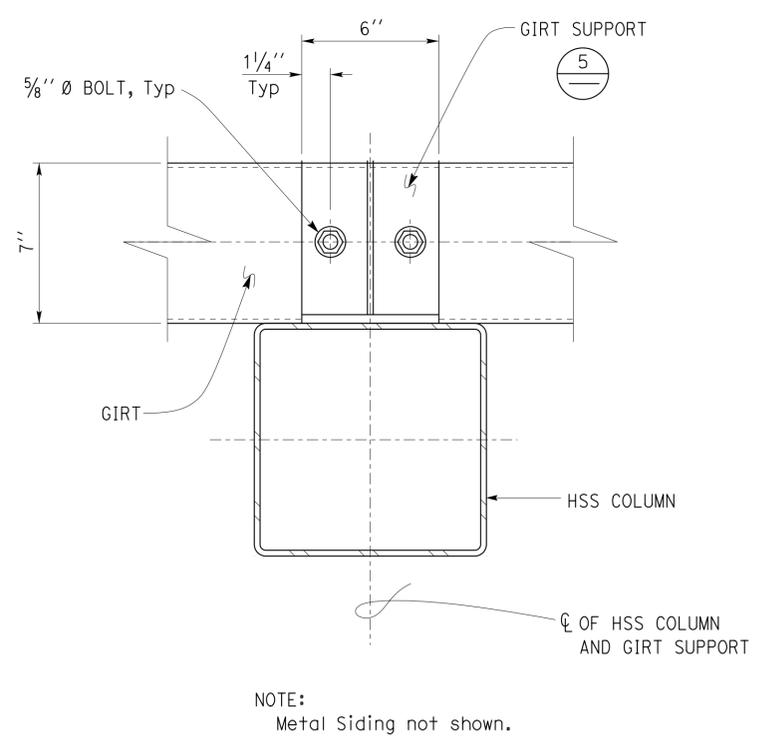
**1 GIRT TO COLUMN DETAIL**  
Scale 3" = 1' - 0"



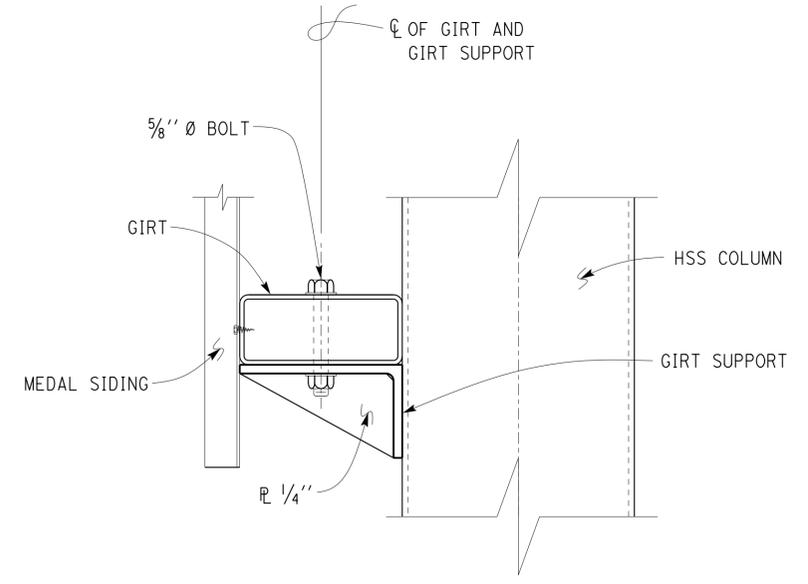
**3 GIRT TO COLUMN DETAIL**  
Scale 3" = 1' - 0"



**5 GIRT SUPPORT TO HSS COLUMN DETAIL**  
Scale 3" = 1' - 0"



**2 GIRT TO COLUMN DETAIL**  
Scale 3" = 1' - 0"



**4 GIRT SUPPORT TO HSS COLUMN DETAIL**  
Scale 3" = 1' - 0"

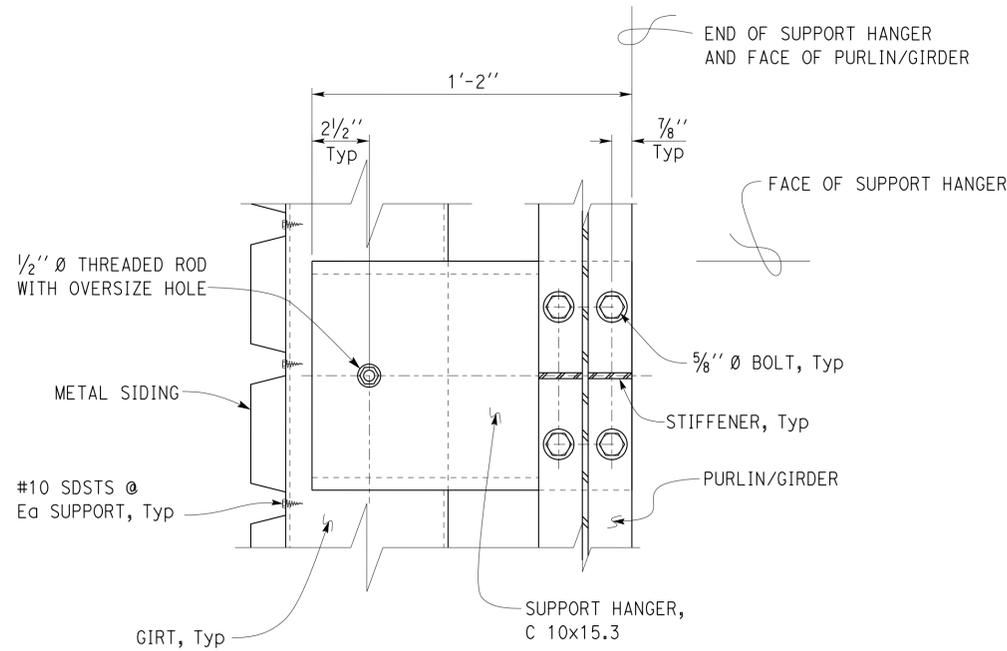
DESIGN BY Thomas Tong	CHECKED Tahir Rashid	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES <b>ARCHITECTURAL AND STRUCTURAL DESIGN</b>	BRIDGE No.	<b>CORONA MAINTENANCE STATION</b>	SHEET <b>ST3-9</b>
				56M5730		
DETAILS BY Aleksey Serin	CHECKED Thomas Tong			POST MILE	CANOPY DETAILS 3	SHEET OF
QUANTITIES BY	CHECKED					
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3581 CONTRACT No.: 0R9701 PROJECT NUMBER & PHASE: 08120002241		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)
0 1 2 3				07-16-10 12-14-12		

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		71	106

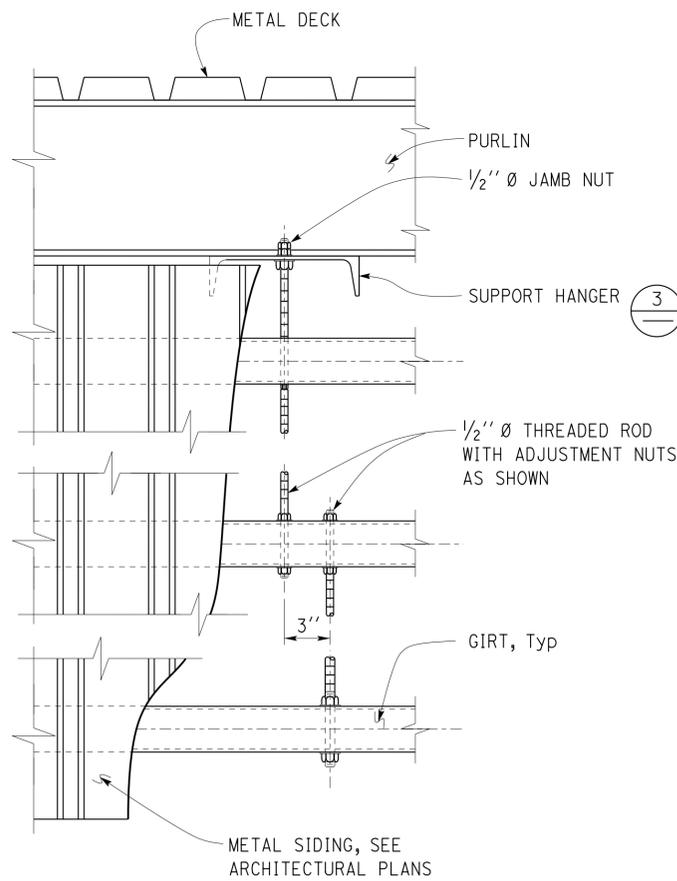
*Tahir Rashid*  
 REGISTERED CIVIL ENGINEER  
 11-15-2013 DATE  
 No. 61932  
 Exp. 9-30-15  
 CIVIL  
 STATE OF CALIFORNIA

3-24-14  
 PLANS APPROVAL DATE

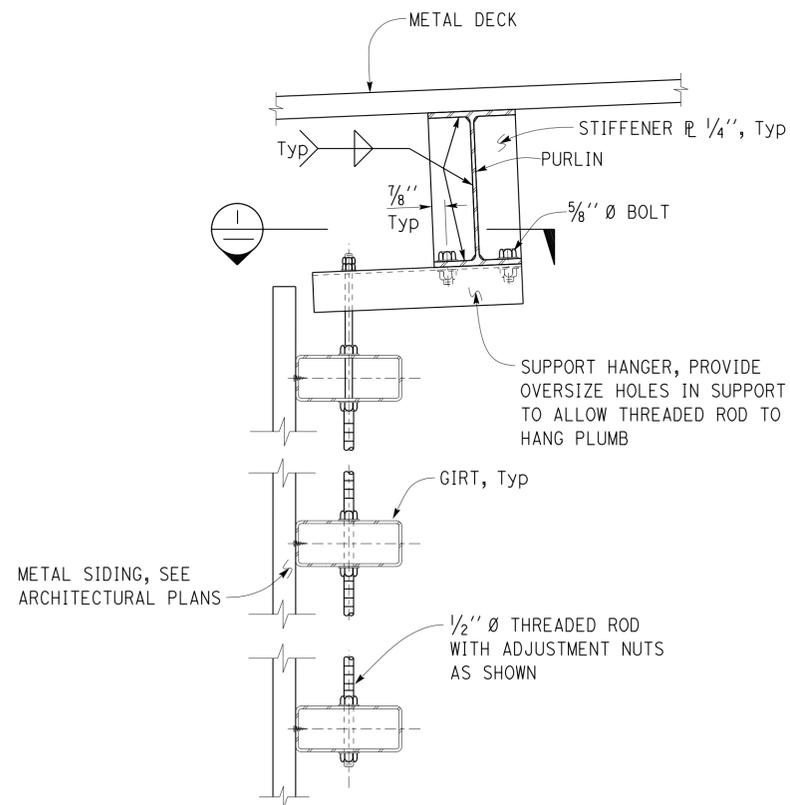
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.



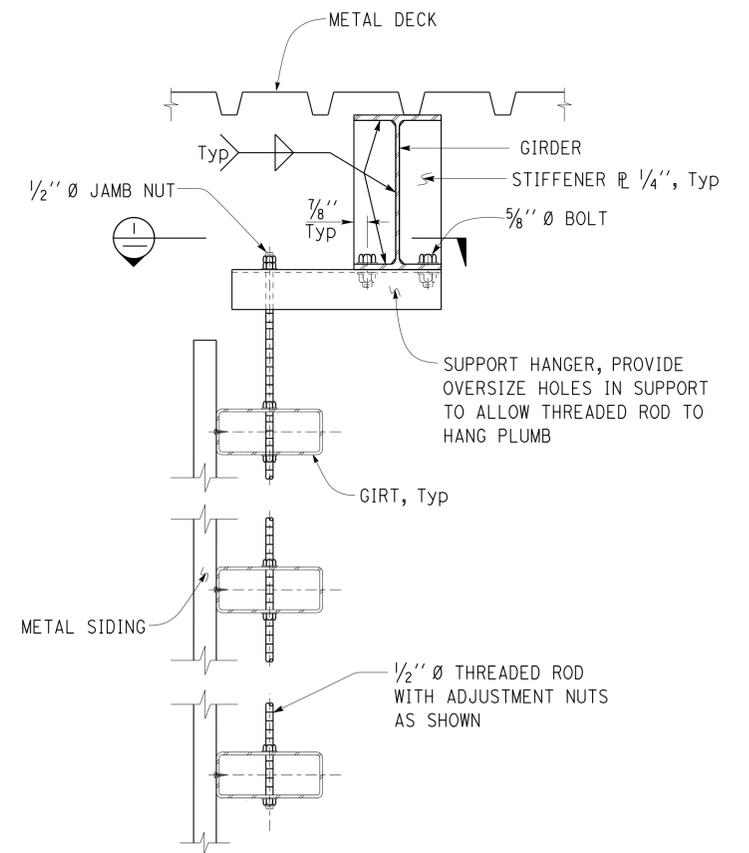
**1 GIRT SUPPORT DETAIL**  
 Scale 3" = 1' - 0"



**2 GIRT AND METAL DECKING DETAILS**  
 Scale 2" = 1' - 0"



**3 GIRT AND METAL DECKING SECTION**  
 Scale 2" = 1' - 0"



**4 GIRT AND METAL DECKING SECTION**  
 Scale 2" = 1' - 0"

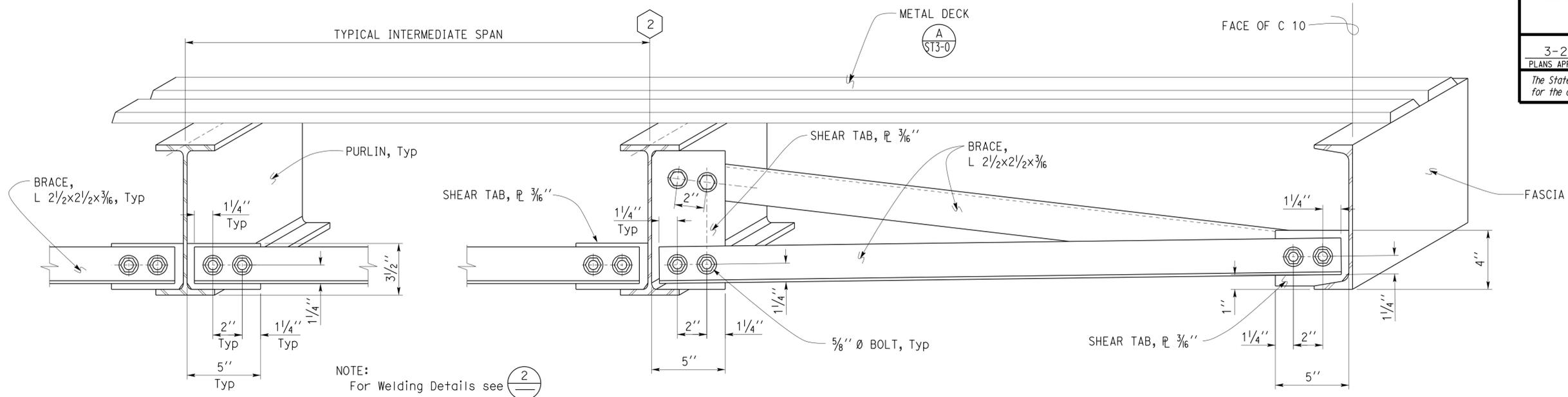
DESIGN BY Thomas Tong	CHECKED Tahir Rashid	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	BRIDGE No. 56M5730	CORONA MAINTENANCE STATION		SHEET ST3-10
DETAILS BY Aleksey Serin	CHECKED Thomas Tong		POST MILE	CANOPY DETAILS 4		OF
QUANTITIES BY	CHECKED		DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	MATERIAL BINS	REVISION DATES (PRELIMINARY STAGE ONLY)	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3	UNIT: 3581 CONTRACT No.: 0R9701 PROJECT NUMBER & PHASE: 08120002241	DISREGARD PRINTS BEARING EARLIER REVISION DATES		07-16-10   12-11-10   08-26-13   11-01-13
TAEWW Imperial - CCSC Rev. 01/13 D:\CADUser\Projects\dist_08\0812000224_Corona.ms\Expd\fe\st3_10.dgn						

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		72	106

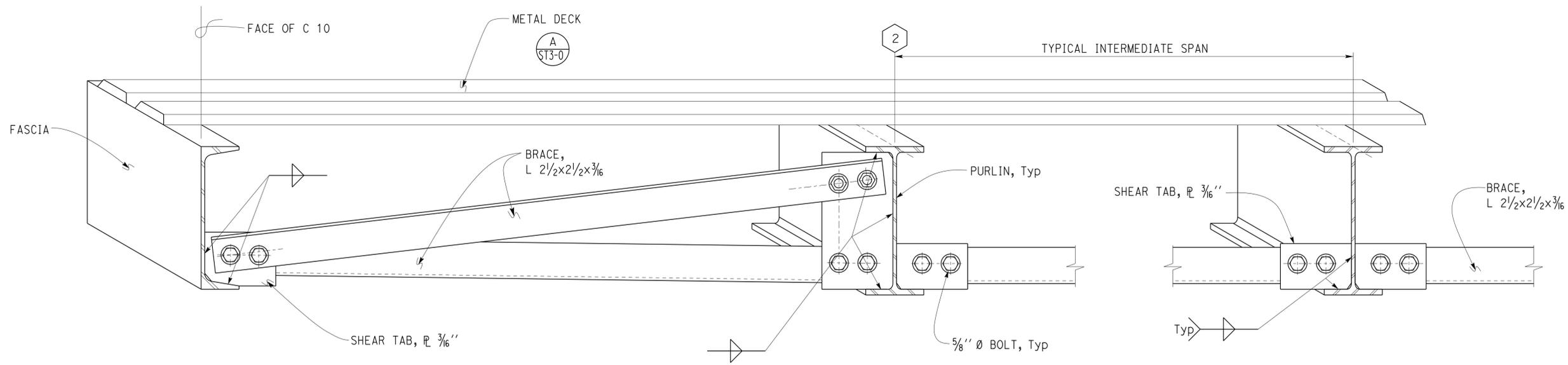
*Tahir Rashid*  
REGISTERED CIVIL ENGINEER  
11-15-2013 DATE  
No. 61932  
Exp. 9-30-15  
CIVIL  
STATE OF CALIFORNIA

3-24-14  
PLANS APPROVAL DATE

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**1 CANOPY BRACE CONNECTION DETAIL**  
Scale 3" = 1' - 0"



**2 CANOPY BRACE WELDING DETAIL**  
Scale 3" = 1' - 0"

DESIGN BY Thomas Tong	CHECKED Tahir Rashid	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES <b>ARCHITECTURAL AND STRUCTURAL DESIGN</b>	BRIDGE No. 56M5730	<b>CORONA MAINTENANCE STATION</b> CANOPY DETAILS 5	SHEET ST3-11		
DETAILS BY Aleksey Serin	CHECKED Thomas Tong			POST MILE		MATERIAL BINS	REVISION DATES (PRELIMINARY STAGE ONLY)	OF
QUANTITIES BY	CHECKED			UNIT: 3581 CONTRACT No.: 0R9701		DISREGARD PRINTS BEARING EARLIER REVISION DATES	07-16-10   12-14-12	

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

TAEMWW Imperial - CCSC Rev. 01/13

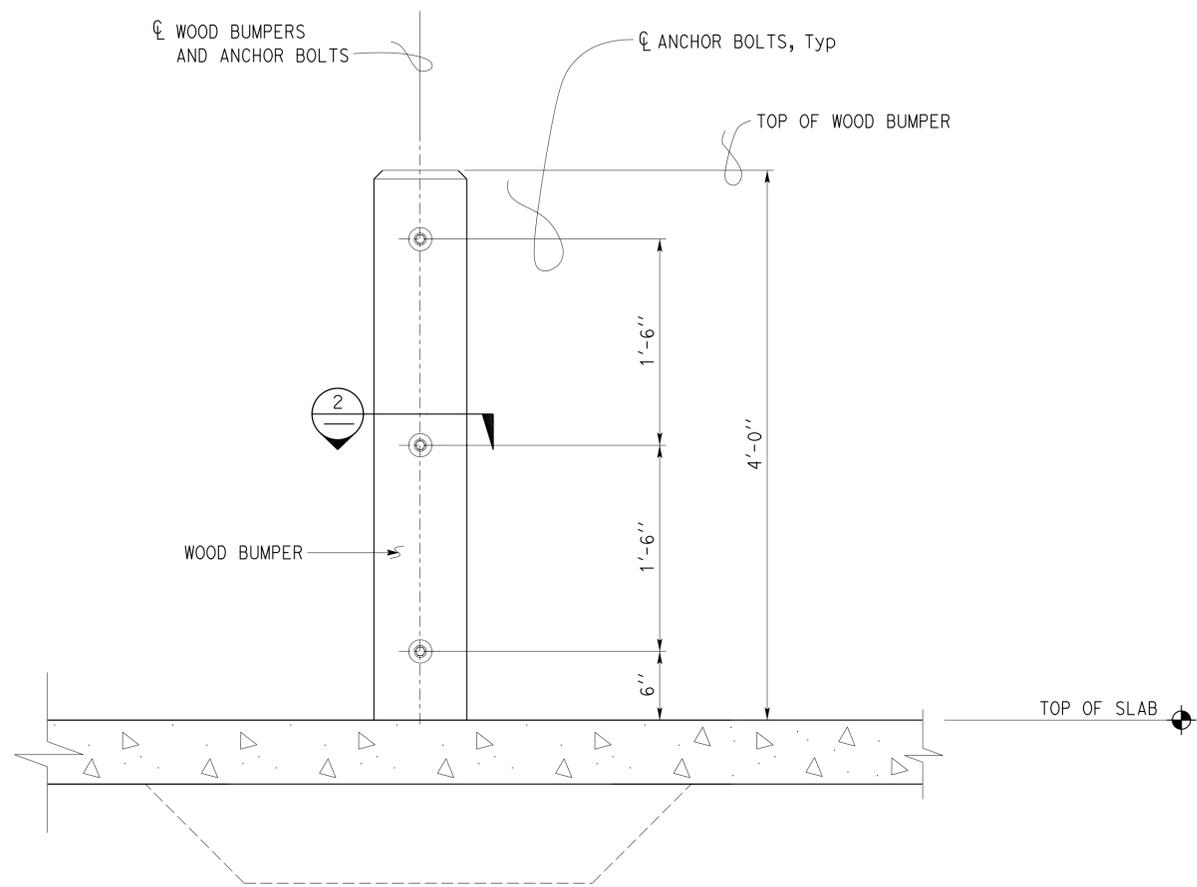
D:\CADUser\projects\dist\_08\0812000224\_Corona.ms\Expedite\st3\_11.dgn

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		73	106

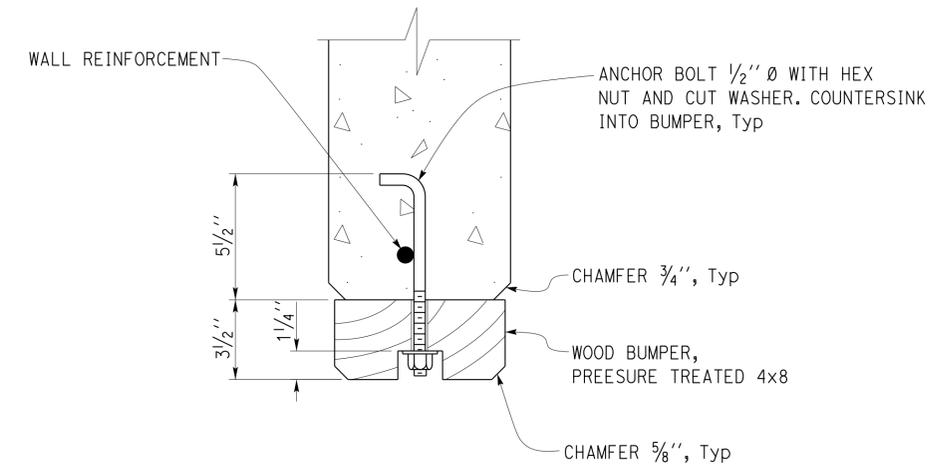
*Tahir Rashid*  
REGISTERED CIVIL ENGINEER  
DATE 11-15-2013

3-24-14  
PLANS APPROVAL DATE

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**1 WOOD BUMPER DETAIL**  
Scale 1 1/2" = 1' - 0"



**2 WOOD BUMPER SECTION**  
Scale 3" = 1' - 0"

DESIGN BY Thomas Tong	CHECKED Tahir Rashid	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No.	CORONA MAINTENANCE STATION		SHEET
				56M5730	CANOPY DETAILS 6		ST3-12
DETAILS BY Aleksey Serin	CHECKED Thomas Tong			POST MILE	MATERIAL BINS		
QUANTITIES BY	CHECKED						
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3581 CONTRACT No.: 0R9701 PROJECT NUMBER & PHASE: 08120002241		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	
0 1 2 3				07-16-10 12-14-12 11-01-13		SHEET OF	

**PROJECT DESIGN CRITERIA**

The building work on this project has been designed to conform to the 2010 California Building Code (2009 IBC)

**LOADS**

**SEISMIC:** Occupancy Category = II  
 Importance Factor I = 1.0  
 Site Soil Class = D  
 $S_s = 1.5$        $S_I = 0.640$   
 $S_{DS} = 1.047$        $S_{DI} = 0.640$   
 Seismic Design Category = D  
**Seismic Force-Resisting System:**

North - South

Cantilevered column systems detailed to conform to ordinary steel moment frames

$R = 1.25$      $C_s = 0.8$

East - West

Cantilevered column systems detailed to conform to ordinary steel moment frames

$R = 1.25$      $C_s = 0.8$

**WIND:** Basic Wind Speed = 85 mph      I = 1.0  
 $\lambda = 1.21$        $P_{S30} = \pm 12.9$   
 $K_{zt} = 1.0$

**LIVE LOAD:** Roof = 20 psf

**MATERIALS**

**REINFORCED CONCRETE:** (Ultimate Strength Design) :  
 $f'_c = 3,500$  psi  
 $f_y = 60,000$  psi

**STRUCTURAL STEEL:** (Allowable Strength Design) :

Angles & Misc Shapes       $F_y = 36$  ksi  
 Plates       $F_y = 50$  ksi  
 Hollow Structural Section (HSS)       $F_y = 46$  ksi

**FOUNDATION:**  
 Soils report dated : not available  
 Allowable Soil Pressure (DL + LL) : = 2,000 psf

**DETAIL NOTES**

1. For Concrete see: "Concrete Standard"
2. All bolts must be hex head machine bolts, with hex head nuts; unless otherwise noted.
3. All lock washers must be helical spring lock washers.

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		74	106

*Tahir Rashid* 11-15-2013  
 REGISTERED CIVIL ENGINEER DATE

Tahir Rashid  
 No. 61932  
 Exp. 9-30-15  
 CIVIL  
 STATE OF CALIFORNIA

3-24-14  
 PLANS APPROVAL DATE

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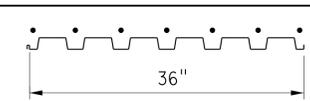
**A METAL/STEEL DECK NOTES**

**METAL DECK MINIMUM SECTION PROPERTIES**

Deck Type	Depth & Gage	Moment of Inertia	Positive Section Modulus	Negative Section Modulus	Minimum Yield Strength
Steel Deck	1 1/2" x 16 Ga	0.377 in <sup>4</sup> /ft	0.411 in <sup>3</sup> /ft	0.417 in <sup>3</sup> /ft	33 Ksi

NOTE:  
 Minimum 3 Span Condition

**WELDING SCHEDULE and METAL DECK PROFILE**

Steel Deck Profile	1/2" Diameter Puddle Weld		1 1/2" Long Side Seam Weld	Diaphragm Shear Capacity
	Perpendicular Supports and Panel Ends	Parallel Supports	Side Laps	
	7 - Puddle Welds Per Support	12" OC	12" OC	- - -

DESIGN	BY	Gang Hong	CHECKED	Tahir Rashid
DETAILS	BY	Aleksey Serin	CHECKED	Gang Hong
QUANTITIES	BY		CHECKED	

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES  
 ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE No. 56M5730  
 POST MILE

CORONA MAINTENANCE STATION  
 FUEL ISLAND CANOPY  
 DESIGN CRITERIA AND DETAIL NOTES

SHEET ST4-0 OF

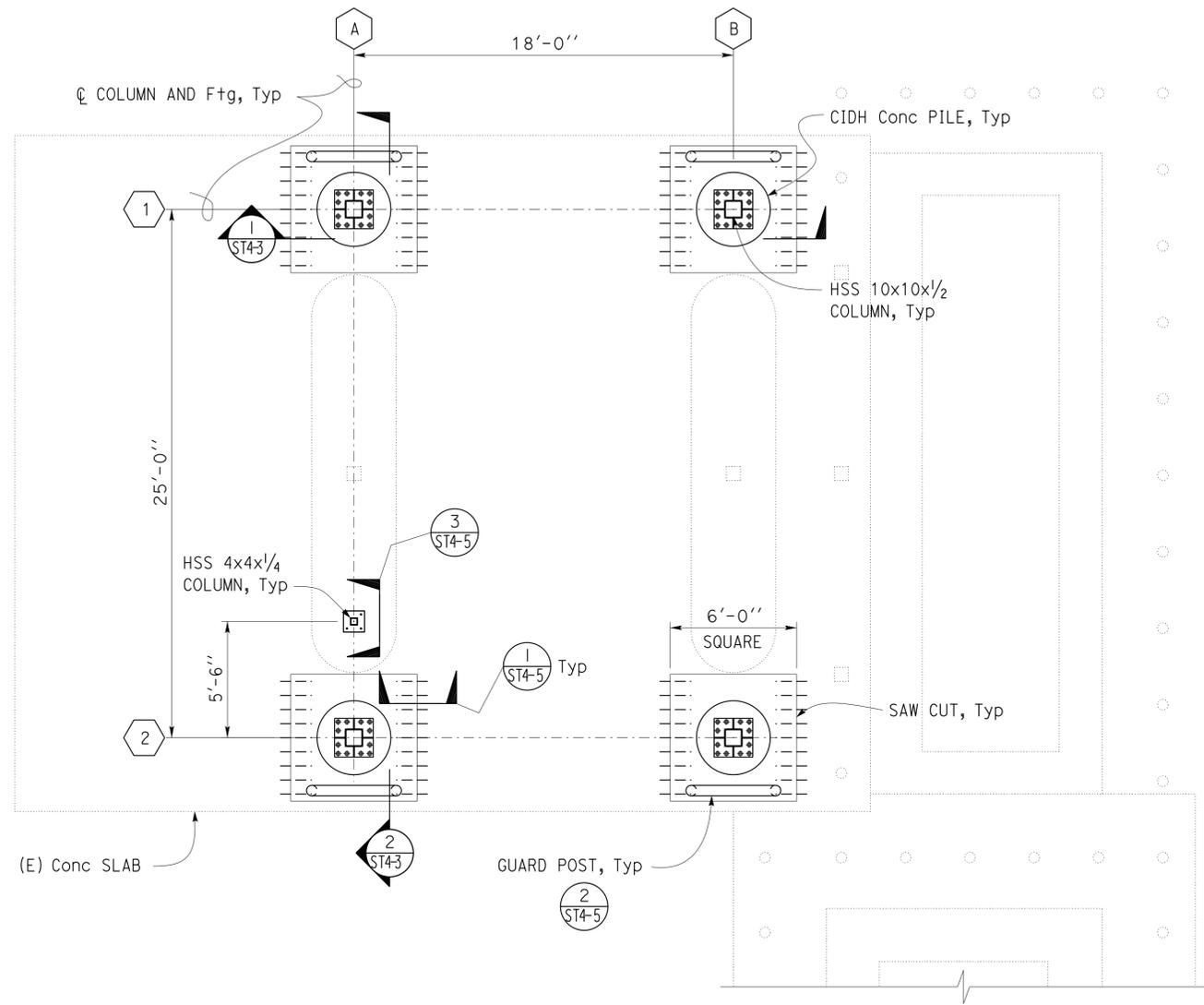
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		75	106

*Tahir Rashid*  
 REGISTERED CIVIL ENGINEER  
 11-15-2013  
 DATE



3-24-14  
 PLANS APPROVAL DATE

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



*Joe [Signature]*  
 DESIGN ENGINEER

DESIGN	BY Gang Hong	CHECKED Tahir Rashid
DETAILS	BY Aleksey Serin	CHECKED Gang Hong
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES  
 ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE No.	56M5730
POST MILE	

CORONA MAINTENANCE STATION  
 FUEL ISLAND CANOPY  
 FOUNDATION PLAN

SHEET OF  
**ST4-1**

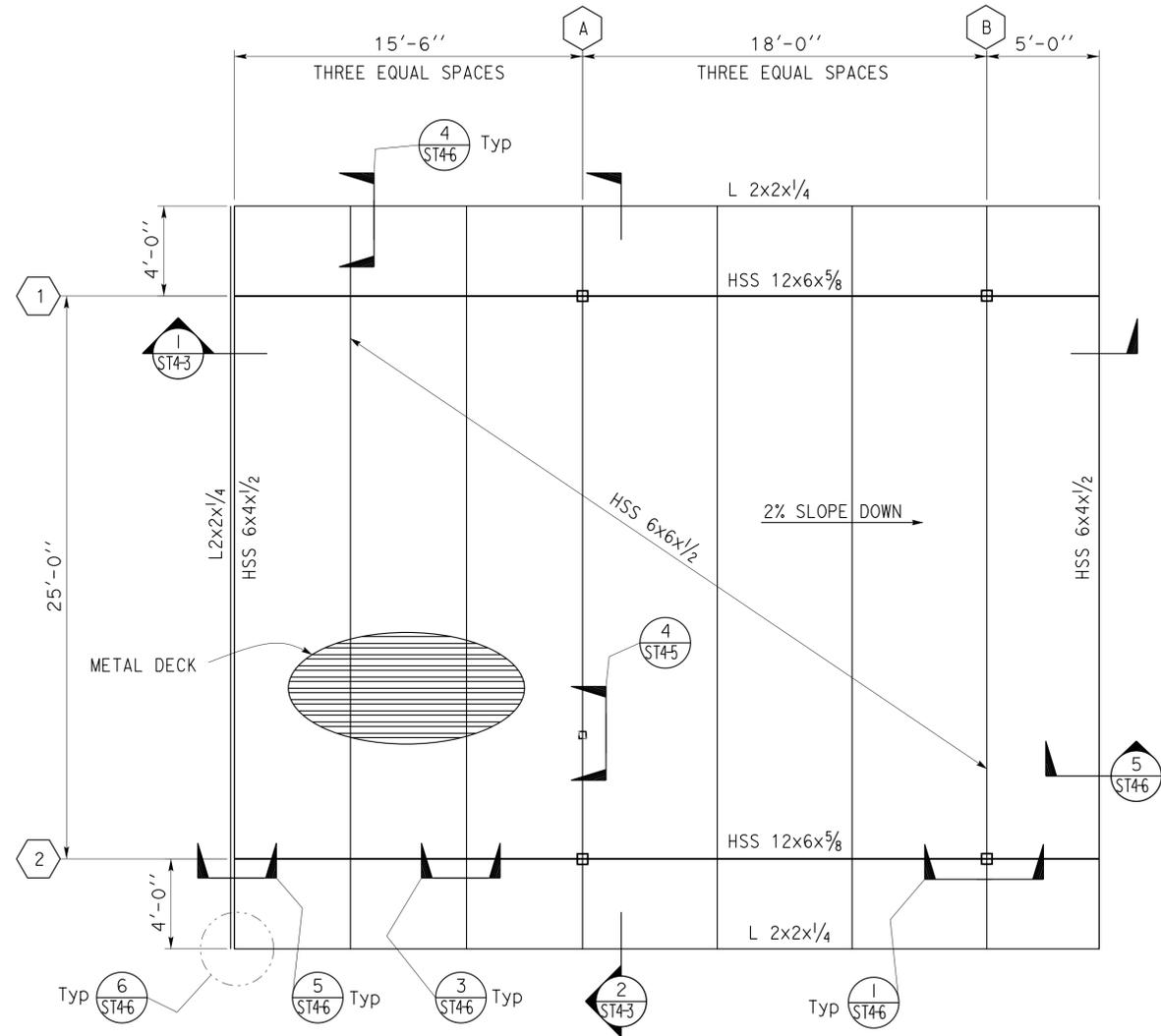
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		76	106

*Tahir Rashid*  
 REGISTERED CIVIL ENGINEER  
 11-15-2013  
 DATE

REGISTERED PROFESSIONAL ENGINEER  
 Tahir Rashid  
 No. 61932  
 Exp. 9-30-15  
 CIVIL  
 STATE OF CALIFORNIA

3-24-14  
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2 CANOPY ROOF PLAN  
 Scale 1/4" = 1' - 0"



DESIGN BY Gang Hong	CHECKED Tahir Rashid	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No. 56M5730	CORONA MAINTENANCE STATION		SHEET
				POST MILE	FUEL ISLAND CANOPY	ST4-2	
DETAILS BY Aleksey Serin	CHECKED Gang Hong			ROOF FRAMING PLAN			OF
QUANTITIES BY	CHECKED			REVISION DATES (PRELIMINARY STAGE ONLY)			
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3581 CONTRACT No.: 0R9701 PROJECT NUMBER & PHASE: 08120002241		DISREGARD PRINTS BEARING EARLIER REVISION DATES			
0 1 2 3				01-03-13 04-12-13 05-03-13 10-28-13			

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		77	106

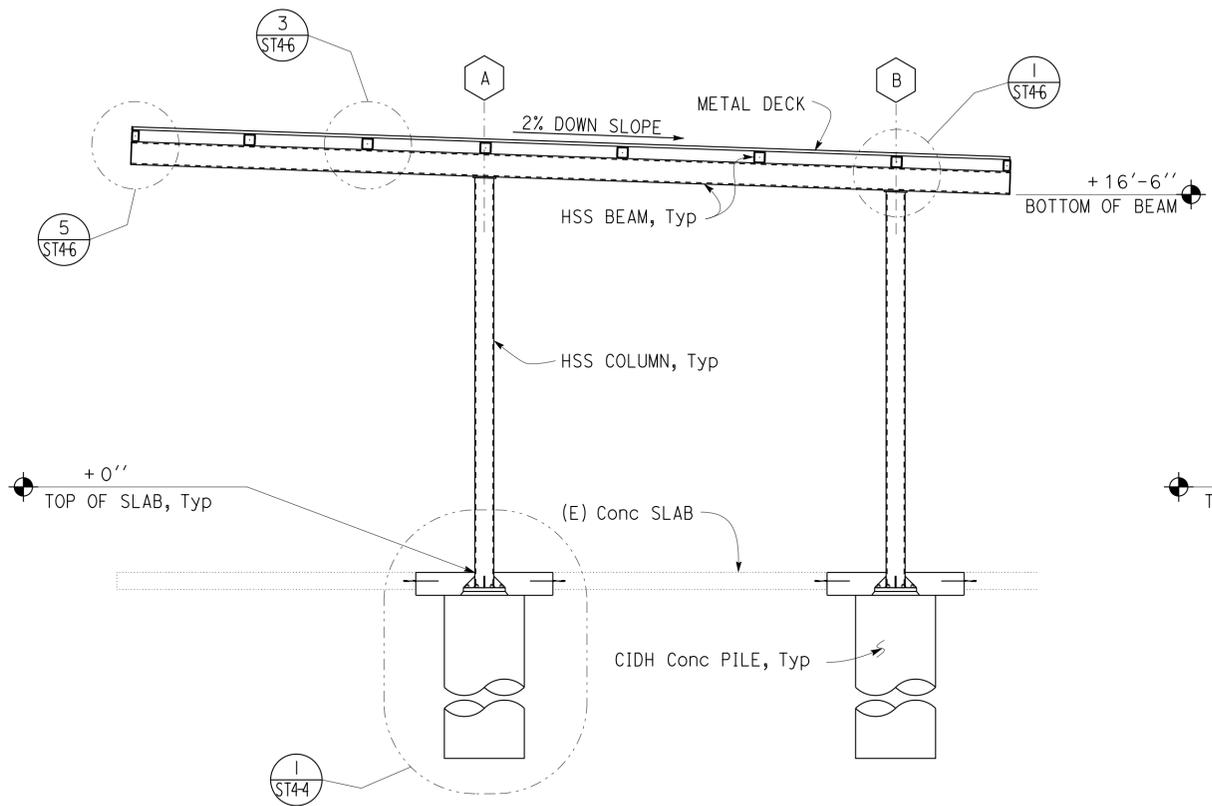
<i>Tahir Rashid</i>		11-15-2013
REGISTERED CIVIL ENGINEER	DATE	

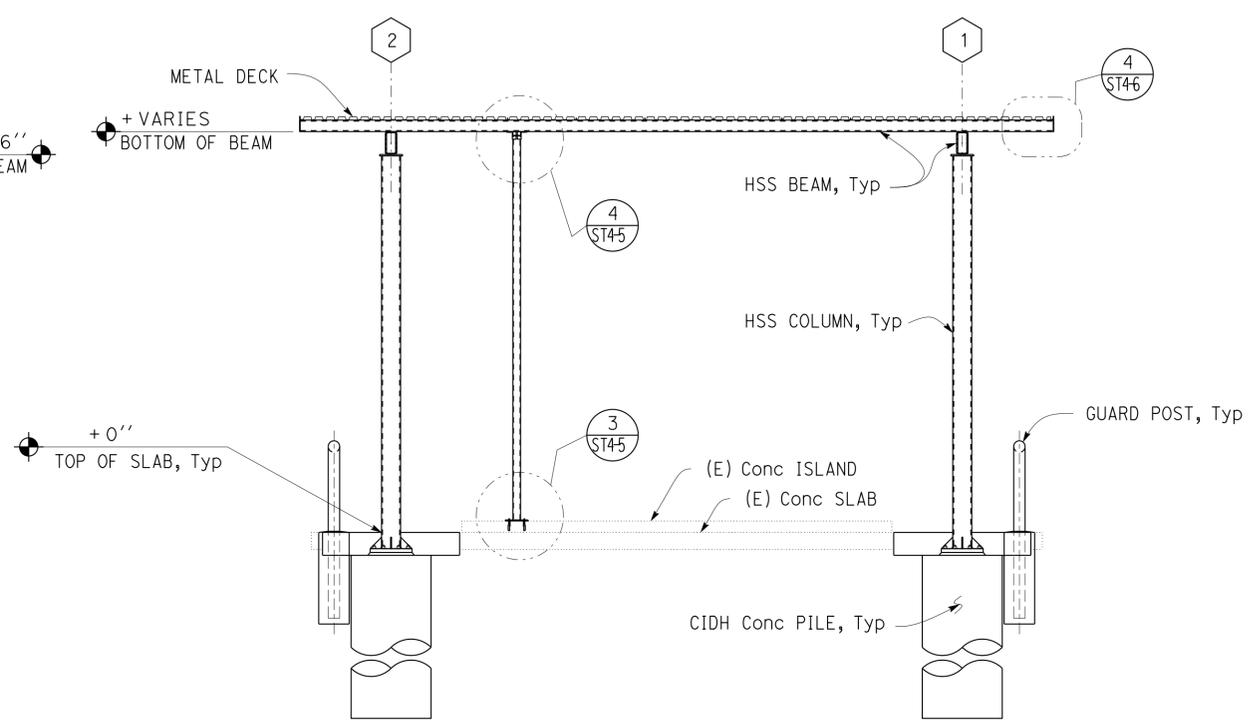
3-24-14	
PLANS APPROVAL DATE	

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**1 CANOPY SECTION**  
Scale 1/4" = 1' - 0"



**2 CANOPY SECTION**  
Scale 1/4" = 1' - 0"

DESIGN BY Gang Hong	CHECKED Tahir Rashid	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No. 56M5730	CORONA MAINTENANCE STATION		SHEET
				POST MILE	FUEL ISLAND CANOPY	ST4-3	
DETAILS BY Aleksy Serin	CHECKED Gang Hong			CANOPY SECTIONS		REVISION DATES (PRELIMINARY STAGE ONLY)	
QUANTITIES BY	CHECKED			01-03-13 04-12-13 05-23-13 05-29-13		SHEET OF	

UNIT: 3581 CONTRACT No.: 0R9701 PROJECT NUMBER & PHASE: 08120002241 DISREGARD PRINTS BEARING EARLIER REVISION DATES

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

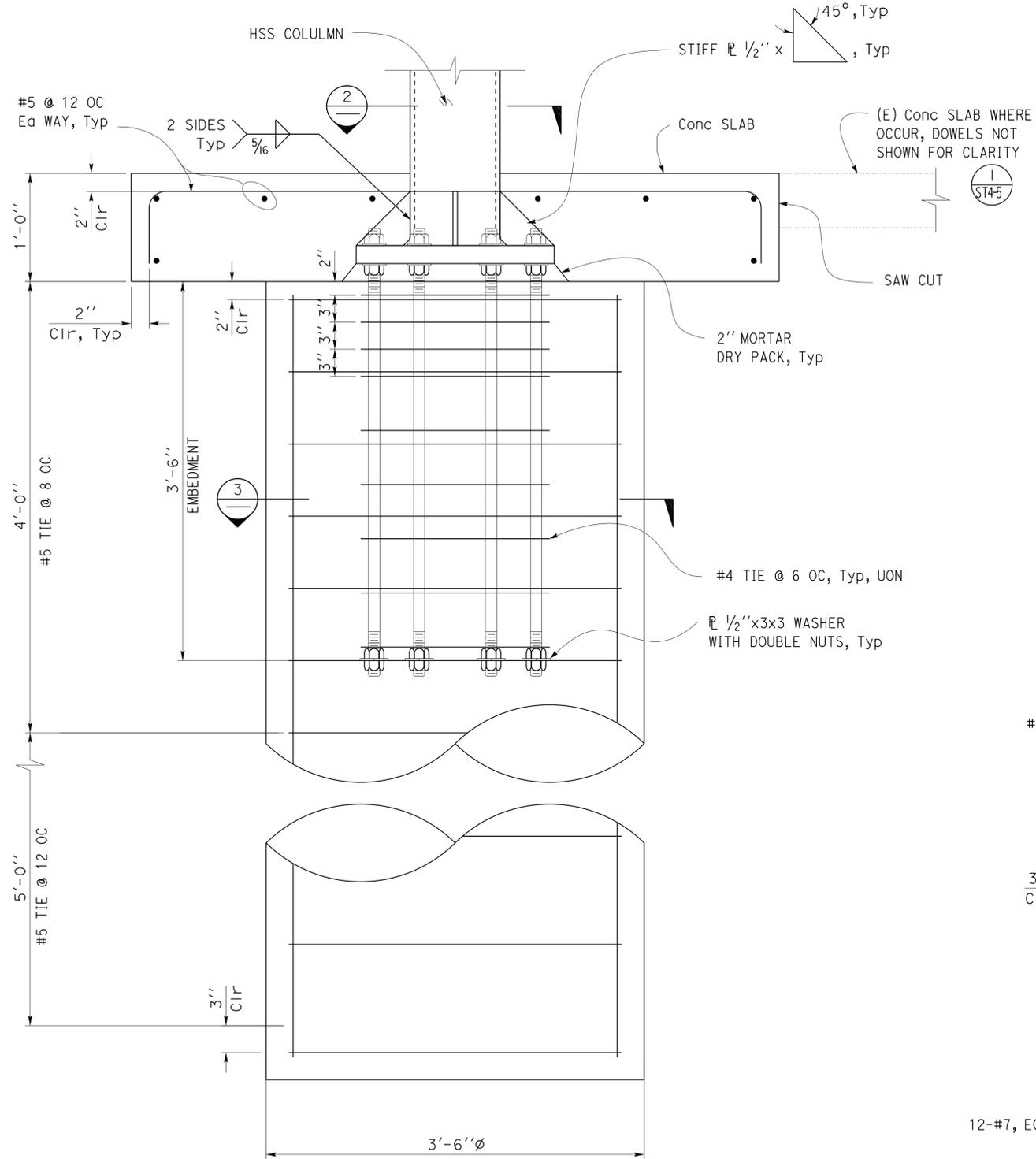
TAEWW Imperial - CCSC Rev. 01/13 D:\CADUser\projects\dist\_08\0812000224\_Corona\_ms\Expedite\st4\_03.dgn 27-MAR-2014 07:56

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		78	106

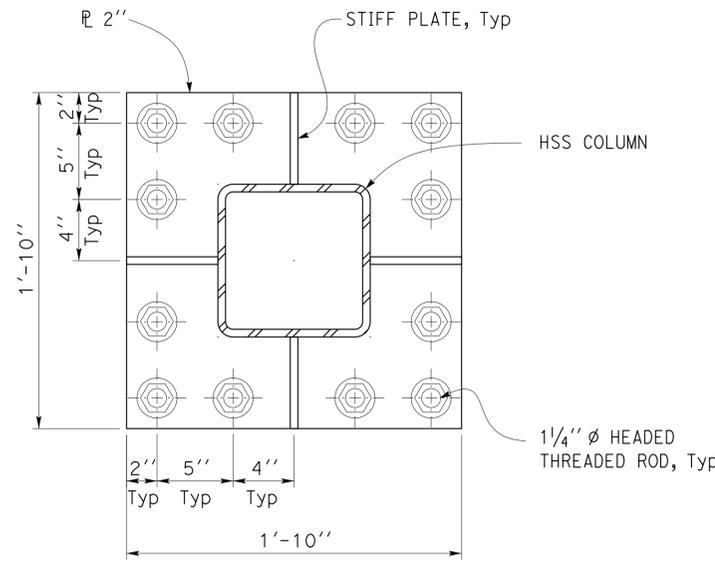
*Tahir Rashid*  
 REGISTERED CIVIL ENGINEER  
 11-15-2013 DATE  
 No. 61932  
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 CIVIL  
 STATE OF CALIFORNIA

3-24-14  
 PLANS APPROVAL DATE

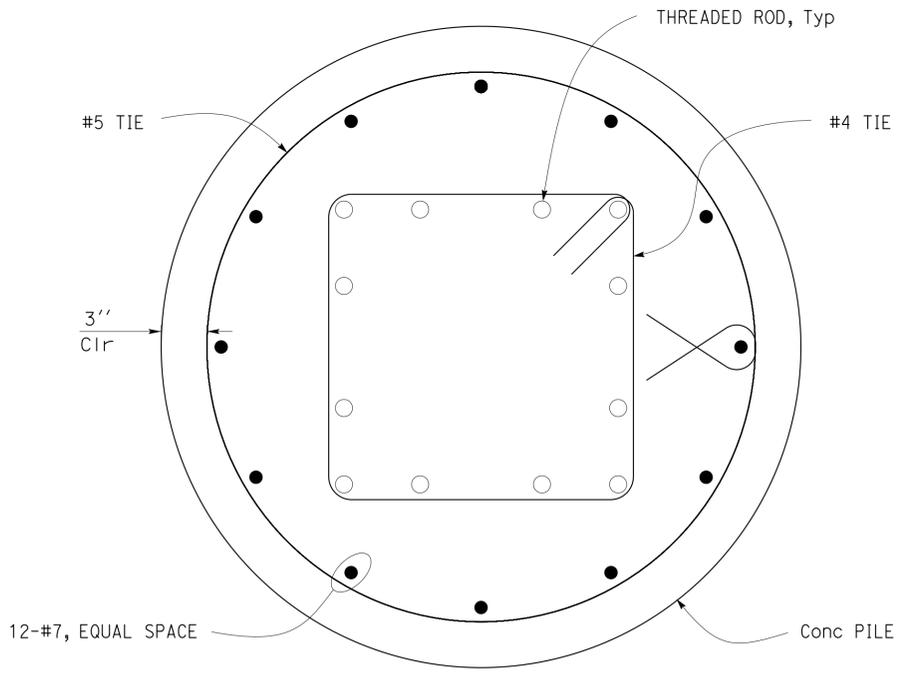
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**1 PILE DETAIL**  
 Scale 1 1/2" = 1' - 0"



**2 BASE PLATE DETAIL**  
 Scale 2" = 1' - 0"



**3 PILE SECTION**  
 Scale 2" = 1' - 0"

DESIGN BY	Gang Hong	CHECKED	Tahir Rashid
DETAILS BY	Aleksey Serin	CHECKED	Gang Hong
QUANTITIES BY		CHECKED	

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES  
 ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE No.	56M5730
POST MILE	

CORONA MAINTENANCE STATION  
 FUEL ISLAND CANOPY  
 FOOTING DETAILS

SHEET  
**ST4-4**

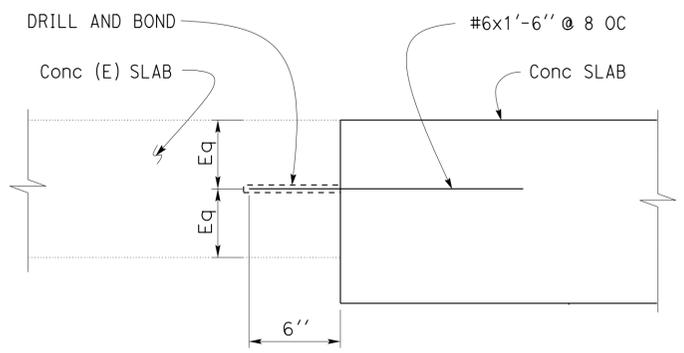
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		79	106

*Tahir Rashid*  
REGISTERED CIVIL ENGINEER  
DATE 11-15-2013

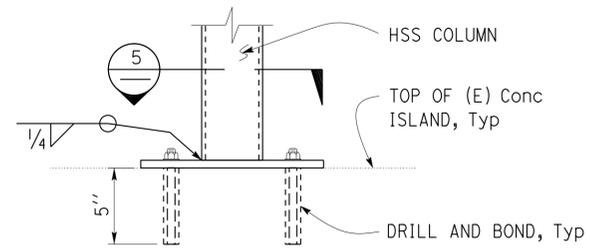
REGISTERED PROFESSIONAL ENGINEER  
Tahir Rashid  
No. 61932  
Exp. 9-30-15  
CIVIL  
STATE OF CALIFORNIA

3-24-14  
PLANS APPROVAL DATE

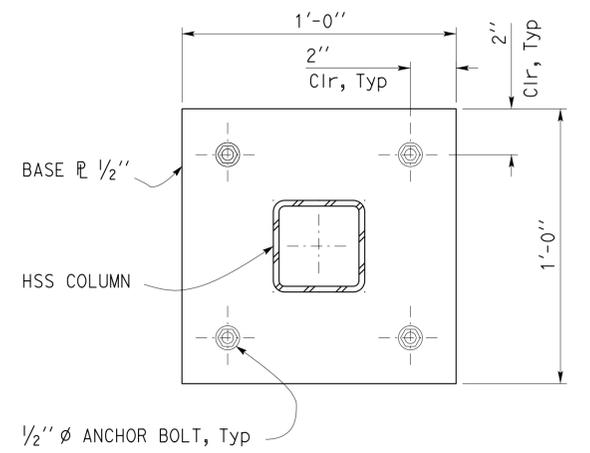
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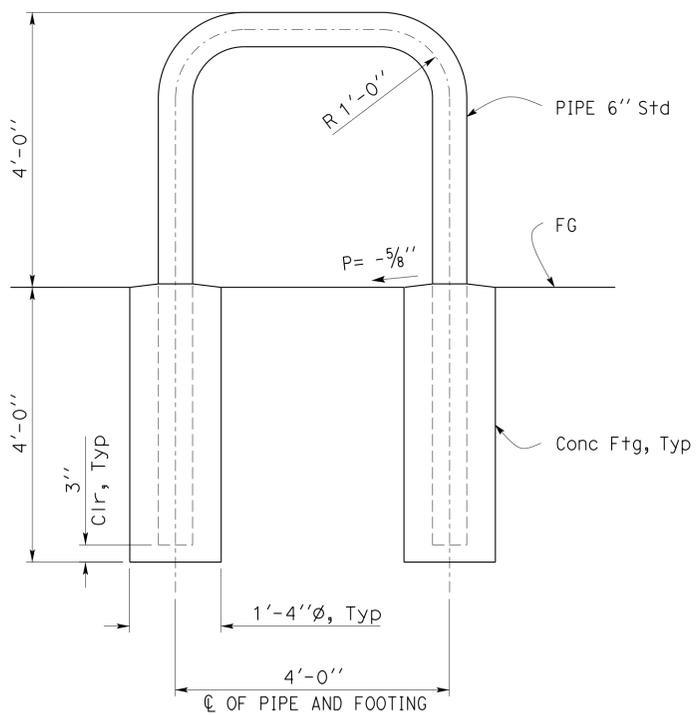
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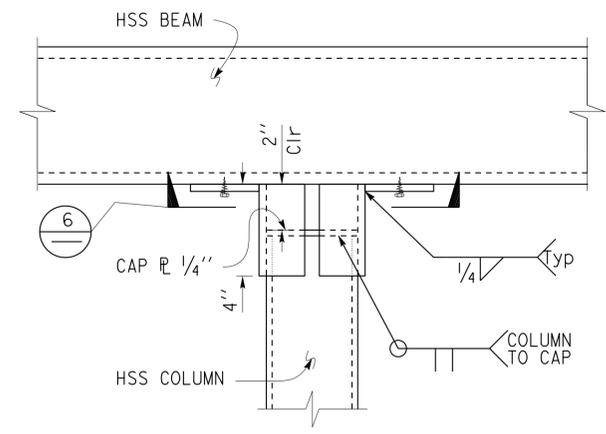
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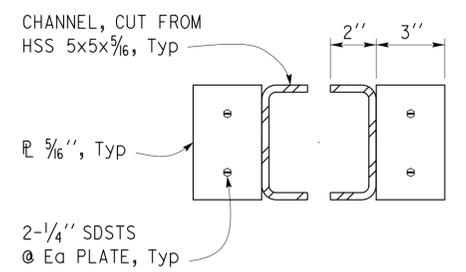
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**2 PIPE GUARD POST DETAIL**  
Scale 3/4" = 1' - 0"



**4 COLUMN DETAIL**  
Scale 3" = 1' - 0"

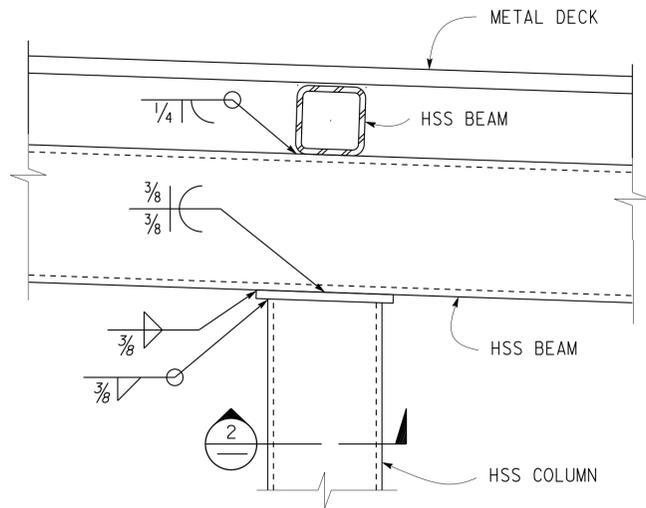


**6 SECTION**  
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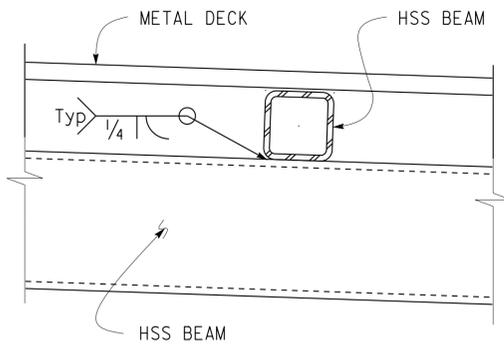
DESIGN BY Gang Hong	CHECKED Tahir Rashid	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No. 56M5730	CORONA MAINTENANCE STATION		SHEET ST4-5
				POST MILE	FUEL ISLAND CANOPY	FOUNDATION & ROOF FRAME DETAILS	
DETAILS BY Aleksy Serin	CHECKED Gang Hong	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3581 CONTRACT No.: 0R9701 PROJECT NUMBER & PHASE: 08120002241	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF
QUANTITIES BY	CHECKED	0 1 2 3			05-30-13 07-08-13		

TAEWW Imperial - CCSC Rev. 01/13  
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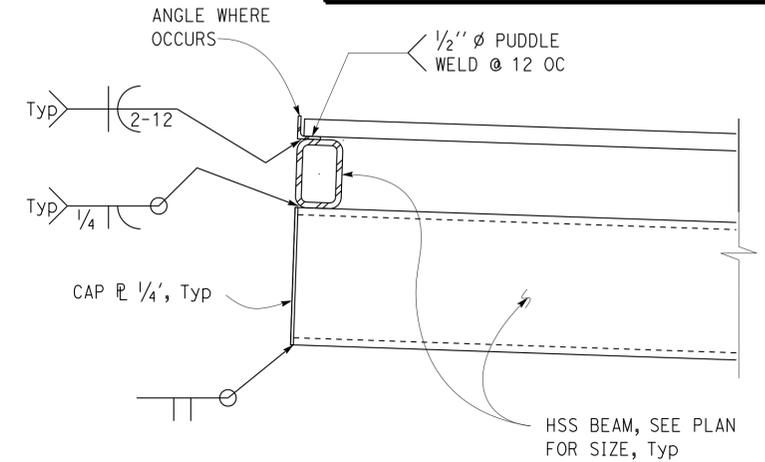
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		80	106
 REGISTERED CIVIL ENGINEER			11-15-2013 DATE		
3-24-14 PLANS APPROVAL DATE					
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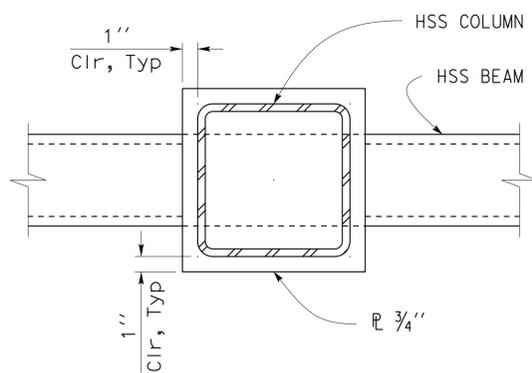
**1 CONNECTION DETAIL**  
Scale 1 1/2" = 1' - 0"



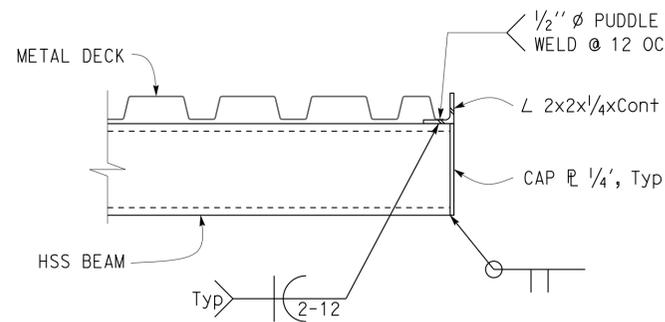
**3 CONNECTION DETAIL**  
Scale 1 1/2" = 1' - 0"



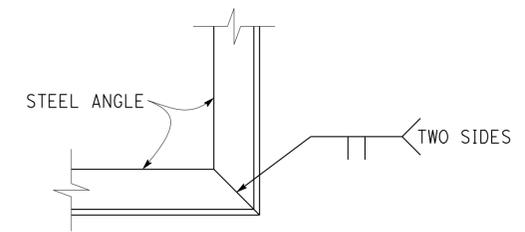
**5 CONNECTION DETAIL**  
Scale 1 1/2" = 1' - 0"



**2 TOP PLATE DETAIL**  
Scale 2" = 1' - 0"



**4 CONNECTION DETAIL**  
Scale 2" = 1' - 0"



**6 CONNECTION DETAIL**  
Scale 3" = 1' - 0"

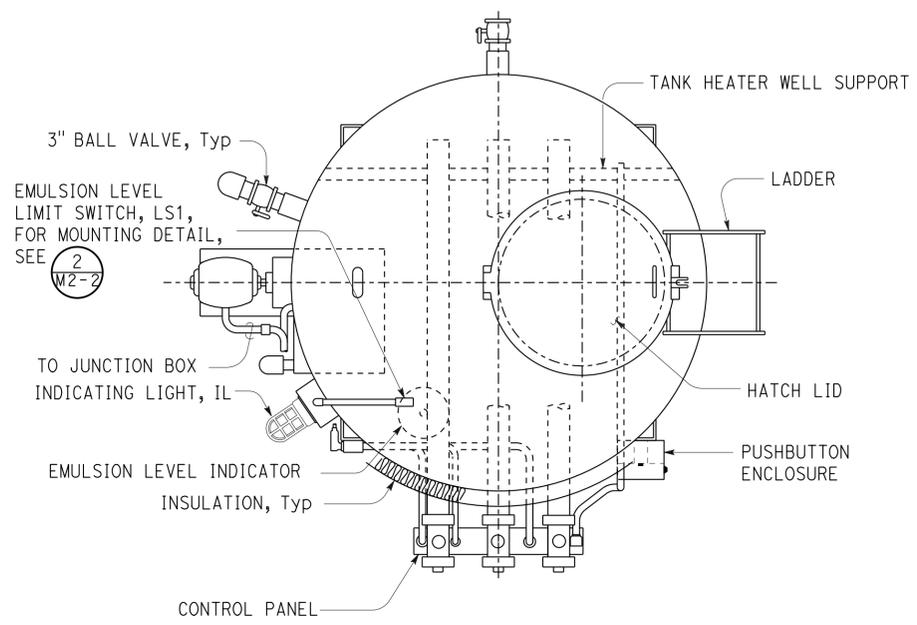
DESIGN BY Gang Hong	CHECKED Tahir Rashid	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No. 56M5730	CORONA MAINTENANCE STATION		SHEET ST4-6	
				POST MILE	FUEL ISLAND CANOPY	ROOF FRAME DETAILS		
DETAILS BY Aleksey Serin	CHECKED Gang Hong	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3581 CONTRACT No.: 0R9701 PROJECT NUMBER & PHASE: 08120002241	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)			SHEET OF
QUANTITIES BY	CHECKED	0 1 2 3			05-03-13	05-23-13	05-28-13	10-28-13

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		81	106
 REGISTERED MECHANICAL ENGINEER			11-13-13 DATE		
3-24-14 PLANS APPROVAL DATE					
<i>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.</i>					

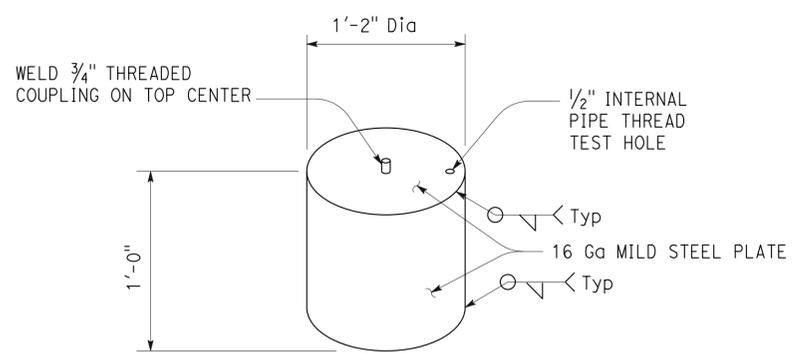
NOTES:

- For details not shown see Structural Sheets.
- Emulsion Tank must be supplied with mobile platform ladder.
- All Conduits must be factory installed Rigid Metal Conduit system except as noted.
- Mark Emulsion Tank level graduations on the aluminum tube as per the Engineer's instruction.
- Mark Indicating Light, IL, as 'Low Emulsion'.

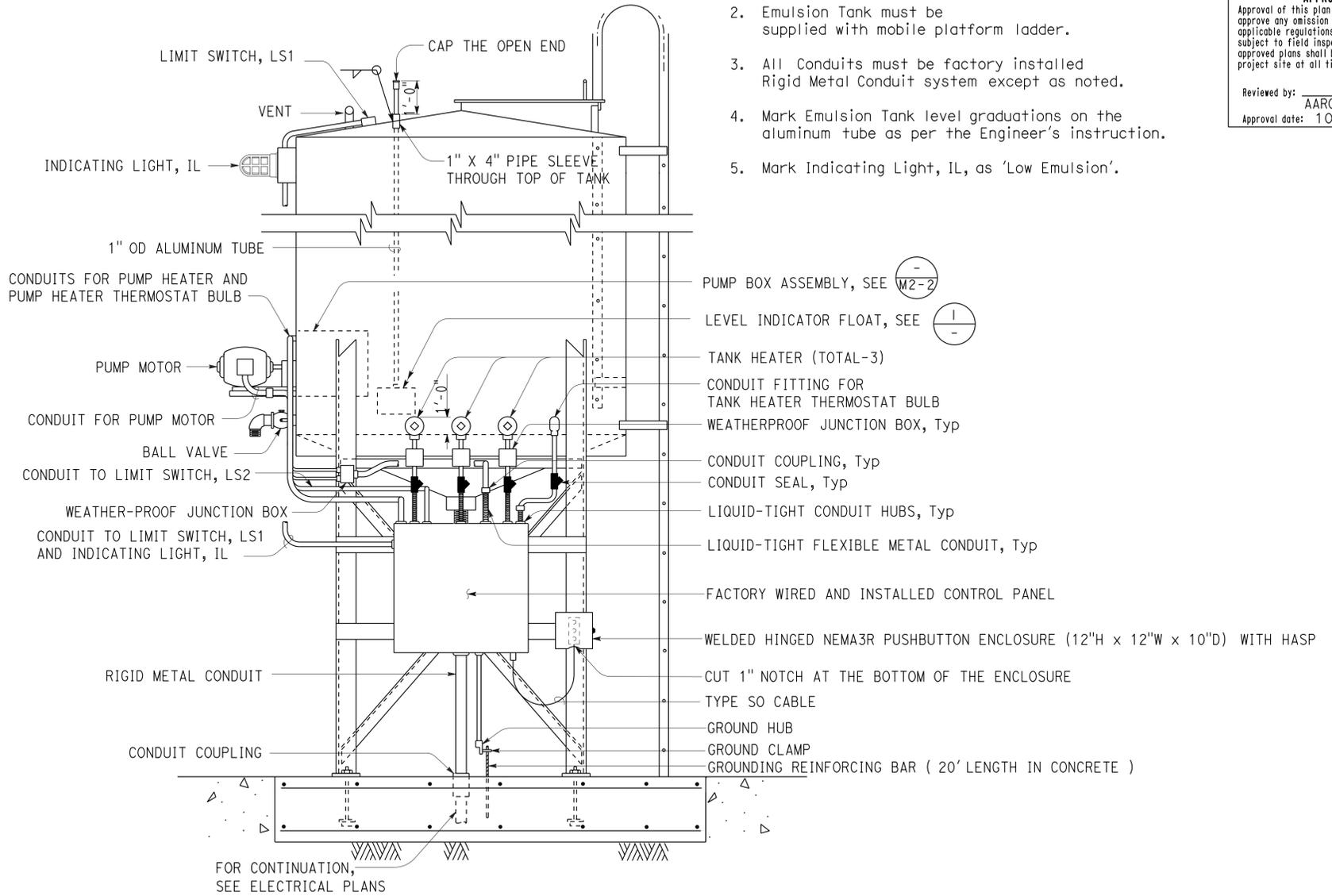
**CALIFORNIA STATE FIRE MARSHAL APPROVED**  
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.  
 Reviewed by:   
 AARON GREER  
 Approval date: 10-16-13



**PLAN**  
NO SCALE



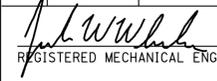
**1 LEVEL INDICATOR FLOAT**  
NO SCALE

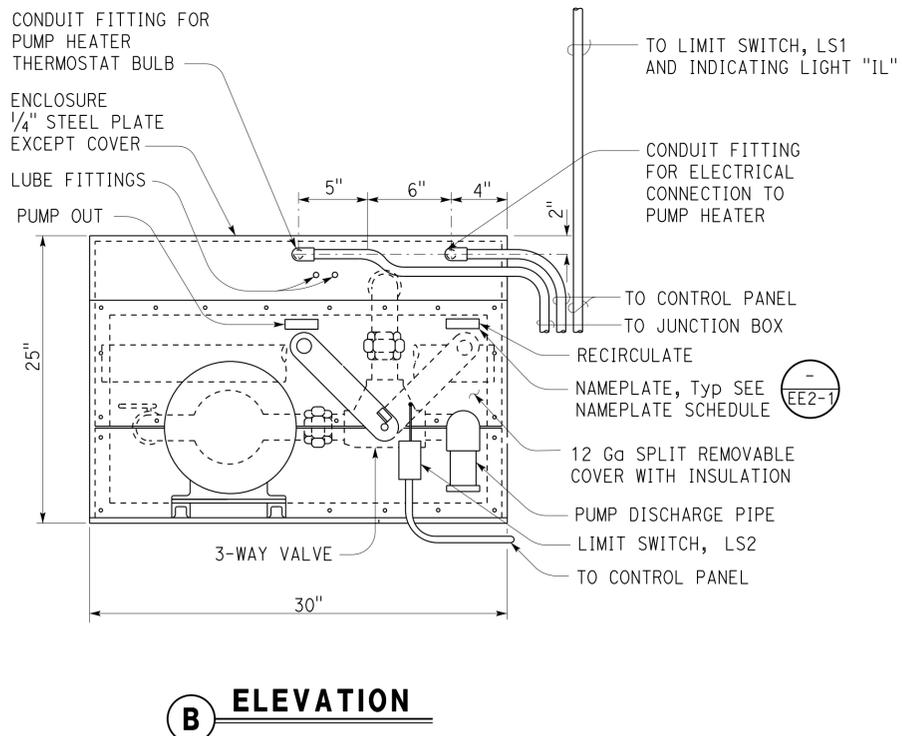
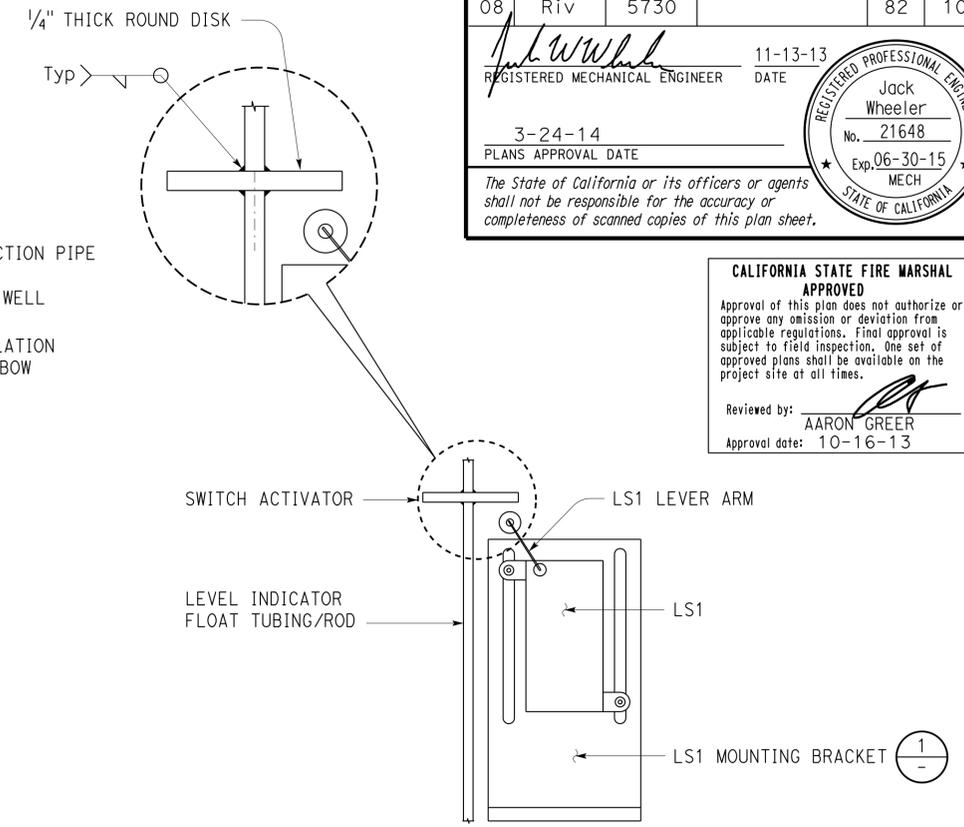
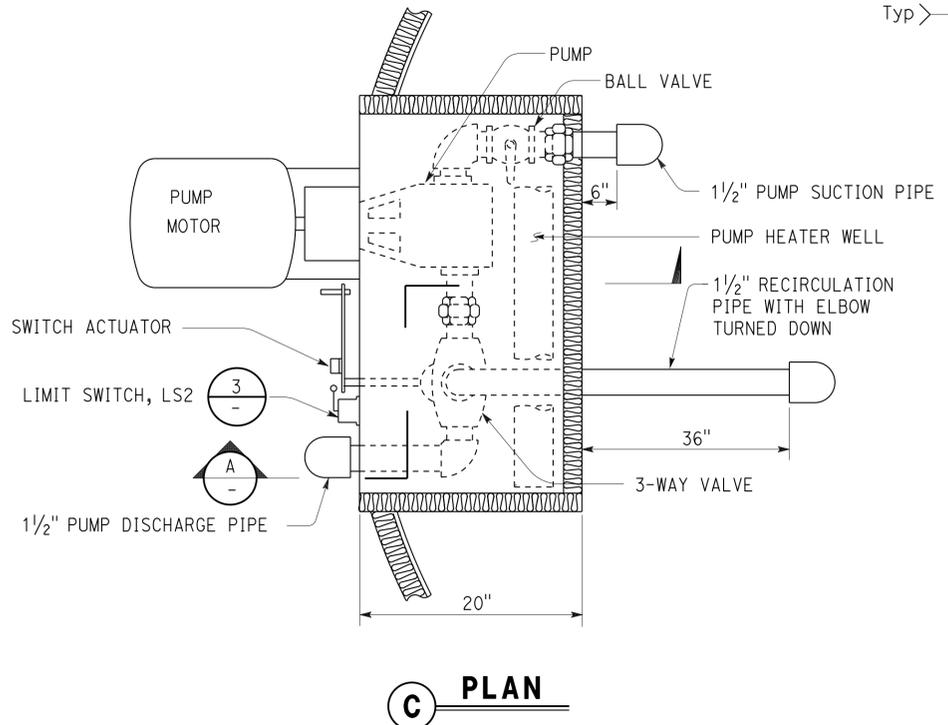
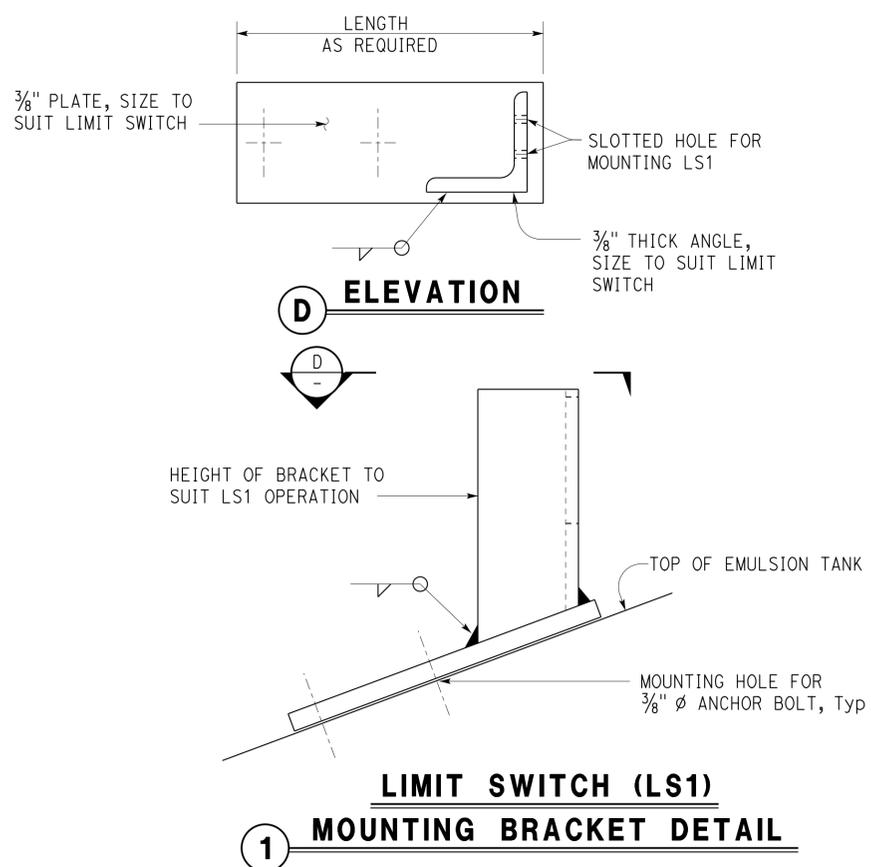


**ELEVATION**  
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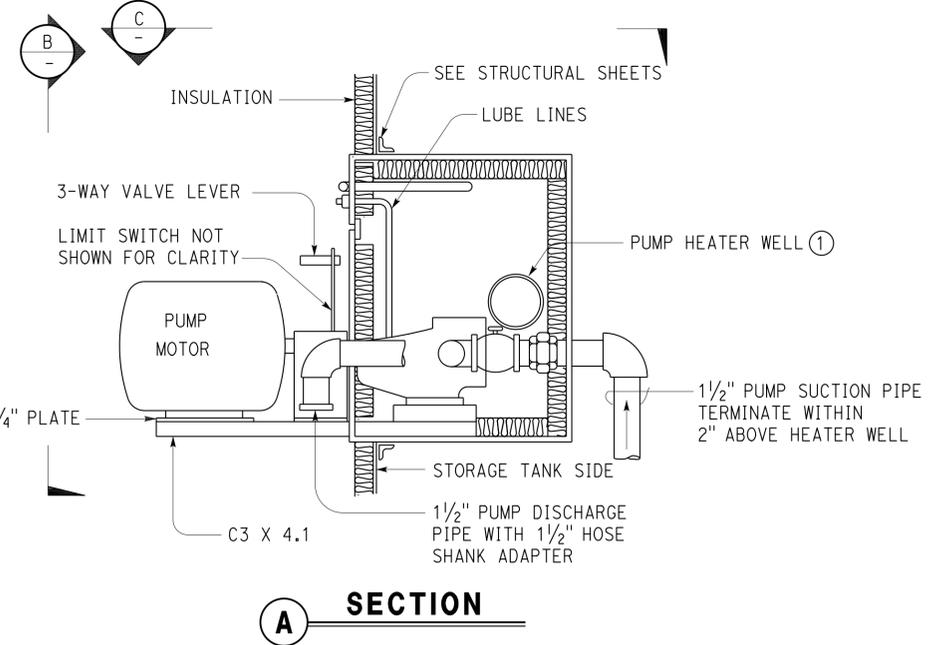
THIS DRAWING ACCURATE FOR MECHANICAL WORK ONLY

 DESIGN SUPERVISOR  DESIGN ENGINEER	DESIGN BY ALVIN KWAN	CHECKED JACK WHEELER	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 56M5730	<b>CORONA MAINTENANCE STATION</b> ASPHALTIC EMULSION TANK DETAILS	SHEET M2-1
	DETAILS BY ANGELA CHEN	CHECKED ALVIN KWAN		ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	POST MILE X		REVISION DATES (PRELIMINARY STAGE ONLY)
QUANTITIES BY ALVIN KWAN	CHECKED JACK WHEELER	UNIT: 3615 CONTRACT No.: 0R9701 PROJECT NUMBER & PHASE: 08120002241	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	DISREGARD PRINTS BEARING EARLIER REVISION DATES	01-24-13 08-21-13 11-13-13		

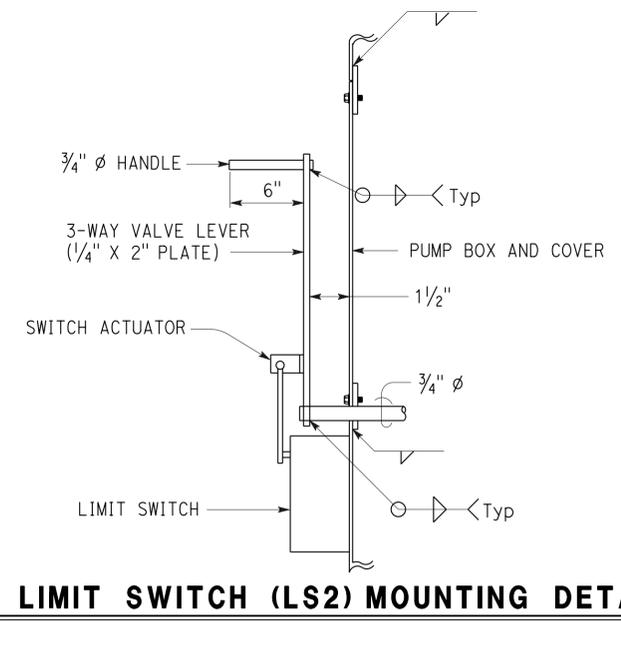
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		82	106
 REGISTERED MECHANICAL ENGINEER			11-13-13	DATE	
3-24-14			PLANS APPROVAL DATE		
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CALIFORNIA STATE FIRE MARSHAL APPROVED Approval of this plan does not authorize 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:  AARON GREER Approval date: 10-16-13					



**PUMP BOX**



NOTES:  
 ① Pump Heater Well must be securely attached to the sides of the Pump Box Wall and must be removable for repair through the split cover.



Switch actuator must be installed in the field during testing in the presence of the Engineer. Switch actuator must be installed with sheet metal screws.

THIS DRAWING ACCURATE FOR MECHANICAL WORK ONLY

NO SCALE

DESIGN BY ALVIN KWAN CHECKED JACK WHEELER DETAILS BY ANGELA CHEN CHECKED ALVIN KWAN QUANTITIES BY ALVIN KWAN CHECKED JACK WHEELER	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 56M5730 POST MILE X	CORONA MAINTENANCE STATION LIMIT SWITCH MOUNTING DETAILS	SHEET M2-2
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT: 3615 CONTRACT No.: 0R9701 PROJECT NUMBER & PHASE: 08120002241	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 01-24-13 08-21-13 11-13-13	SHEET OF
	TAEMWW Imperial Rev. 7/10 FILE => m2_02.dgn DATE PLOTTED => 28-MAR-2014 TIME PLOTTED => 08:01	28-MAR-2014 08:01	m2_02.dgn		

**GRAPHIC SYMBOLS FOR ELECTRICAL WIRING AND LAYOUT DIAGRAMS**

SYMBOL	DESCRIPTION
	POLE-TOP ELECTROLIER
	POLE-ARM ELECTROLIER
<b>CEILING</b>	<b>WALL</b>
	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
S0	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 MUST BE 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" C, 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
○	POLE
	OCCUPANCY SENSOR
	OCCUPANCY SENSOR POWER PACK
	MANUAL PULL STATION
	AUDIO/VISUAL ALARM DEVICE
	HEAT DETECTOR
	SMOKE DETECTOR
	MAGNETIC CONTACT SWITCH-VEHICLE DOOR
	KEYPAD FOR ALARM SYSTEM
	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)
	COMBINATION HEAT, LIGHT, AND FAN UNIT
	MOTORIZED VALVE
	SOLENOID VALVE
	SECTION/ELEVATION LETTER
	SHEET NUMBER
	DETAIL NUMBER
	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)
	INDICATING LIGHT (A=AMBER, G=GREEN, R=RED)
	GENERATOR
	MOTOR
	FAN MOTOR

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		83	106
		11-13-13	DATE		
REGISTERED ELECTRICAL ENGINEER		3-24-14 PLANS APPROVAL DATE			
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**CALIFORNIA STATE FIRE MARSHAL APPROVED**

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Reviewed by:

Approval date: 10-16-13

DESIGN BY: Jipinderpal Kaur	CHECKED: Jaswinder Gill	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	BRIDGE No. 56M5730	<b>CORONA MAINTENANCE STATION</b>	SHEET EEO-0	
DETAILS BY: Ed D. Tapalla	CHECKED: Jipinderpal Kaur		DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN		POST MILE	LEGEND
QUANTITIES BY: Jipinderpal Kaur	CHECKED: Jaswinder Gill		UNIT: 3597 CONTRACT No.: 0R9701 PROJECT NUMBER & PHASE: 08120002241		DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)

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

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28-MAR-2014 08:57

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**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  
 CR CONTROL RELAY  
 CSW CURRENT SWITCH

**D**  
 DI DIGITAL INPUT  
 DO DIGITAL OUTPUT  
 DP DUPLEX PLUG RECEPTACLE  
 DS DOOR SWITCH

**E**  
 (E) EXISTING  
 EF EXHAUST FAN

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

**G**  
 G GROUND

**I**  
 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 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  
 PV PHOTOVOLTAIC

**R**  
 RD RECEPTACLE DISCONNECT  
 RES RESISTOR  
 RMB RECIRCULATION AND LEACHFIELD MAIN  
 RTB RADIO TERMINAL BOARD

**S**  
 S STARTER COIL  
 Sch SCHEDULE  
 SD SERVICE DISCONNECT  
 Sec SECONDS  
 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  
 TC TELEPHONE CABLE  
 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

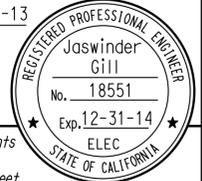
**W**  
 WLS WATER LEVEL SWITCH  
 WP WEATHERPROOF  
 WSMS WEIGH STATION MESSAGE SIGN

**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:   
 Approval date: 10-16-13

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		84	106
 REGISTERED ELECTRICAL ENGINEER			11-13-13	DATE	
3-24-14			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 must be used for each 120-volt circuit.
2. Homeruns to Panelboards must be installed as shown on the plans. Homeruns must not be combined.
3. A single insulated equipment grounding conductor, sized as required, must be installed in each conduit run.

**STANDARD NOTES**

RLD Relocated equipment.

**STANDARD PLANS**

Dated 2010

- RSP ES-1A
- RSP ES-1B
- RSP ES-1C
- RSP ES-4A
- RSP ES-4C
- RSP ES-4E
- ES-5A
- RSP ES-5B
- RSP ES-5D
- RSP ES-8A
- ES-13A
- ES-13B

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY	Jipinderpal Kaur	CHECKED	Jaswinder Gill	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	BRIDGE No. 56M5730 POST MILE	<b>CORONA MAINTENANCE STATION</b>  NOTES AND ABBREVIATIONS	SHEET	<b>EE0-1</b>	
	DETAILS	BY	Ed D. Tapalla	CHECKED						Jipinderpal Kaur
	QUANTITIES	BY	Jipinderpal Kaur	CHECKED						Jaswinder Gill
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0    1    2    3	UNIT: 3597    CONTRACT No.: 0R9701 PROJECT NUMBER & PHASE: 08120002241	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF	

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

Project Name: CORONA MAINTENANCE STATION Date: 11/15/2013  
 Project Address: 842 EL SOBRANTE ROAD CORONA, CA 91719 Total Hardscape Illuminated Area: 29156

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: JASWINDER GILL Signature: *Jaswinder S Gill*

Company: DEPARTMENT OF TRANSPORTATION, CA Date: 11/15/2013

Address: 1801 30TH STREET If applicable: CEA # CEPE #

City/State/Zip: SACRAMENTO/CA/95816 Phone:

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: JASWINDER GILL Signature: *Jaswinder S Gill*

Company: DEPARTMENT OF TRANSPORTATION, CA Phone: 916-227-9492

Address: 1801 30TH STREET License #: E18551

City/State/Zip: SACRAMENTO/CA/95816 Date: 11/15/2013

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: 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.

- 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.

2008 Nonresidential Compliance Forms July 2010

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

## COMPLIANCE FIXTURE/LIGHTING CONTROL SCHEDULE and FIELD INSPECTION CHECKLIST

Project Name: CORONA MAINTENANCE STATION Date: 11/15/2013

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
L1	90 W, LED, OUTDOOR LIGHTS	FC	90	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	6	540	<input type="checkbox"/> <input type="checkbox"/>
L2	110 W, LED, CANOPY LIGHTS	FC	110	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	5	550	<input type="checkbox"/> <input type="checkbox"/>
L3	200 W, LED, CANOPY LIGHTS	FC	200	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	10	2000	<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:								3090	

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
1	PEU	REMOTE ON ROOF			
2	MOTION SENSOR	INTEGRAL TO FIXTURE			

### 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:

2008 Nonresidential Compliance Forms July 2010

GENERAL NOTES:  
 FORMS OLTG-1-C, PARTS 1 OF 4 AND 2 OF 4 ARE SHOWN ON THIS SHEET.  
 FORMS OLTG-1-C, PARTS 3 OF 4 AND 4 OF 4 ARE SHOWN ON SHEET EEO-3.  
 OTHER CHECKED FORMS ARE AVAILABLE UPON REQUEST.

APPROVED FOR ELECTRICAL WORK ONLY

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		85	106

*Jaswinder S Gill* 11-13-13  
 REGISTERED ELECTRICAL ENGINEER DATE

3-24-14  
 PLANS APPROVAL DATE

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CALIFORNIA STATE FIRE MARSHAL APPROVED

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Reviewed by: *Aaron Greer*  
 AARON GREER  
 Approval date: 10-16-13

CALIFORNIA ENERGY COMMISSION MANDATORY MEASURES:

CANOPY EXTERIOR & INTERIOR LIGHTING

- PHOTOELECTRIC CELL UNIT.
- EXTERIOR LUMINAIRES MUST HAVE FULL CUT-OFF LIGHT DISTRIBUTION.
- ALL EXTERIOR AND INTERIOR LUMINAIRES MUST HAVE INTEGRAL MOTION SENSOR TO REDUCE FIXTURE OUTPUT BY 80% WHEN NO OCCUPANCY.

DESIGN BY: Jipinderpal Kaur	CHECKED: Jaswinder Gill	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 56M5730	CORONA MAINTENANCE STATION	SHEET EEO-2
DETAILS BY: Ed D. Tapalla	CHECKED: Jipinderpal Kaur			POST MILE		
QUANTITIES BY: Jipinderpal Kaur	CHECKED: Jaswinder Gill					
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3			UNIT: 3597 CONTRACT No.: 0R9701 PROJECT NUMBER & PHASE: 08120002241	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF

TAEWW Imperial - CCSC Rev. 01/13

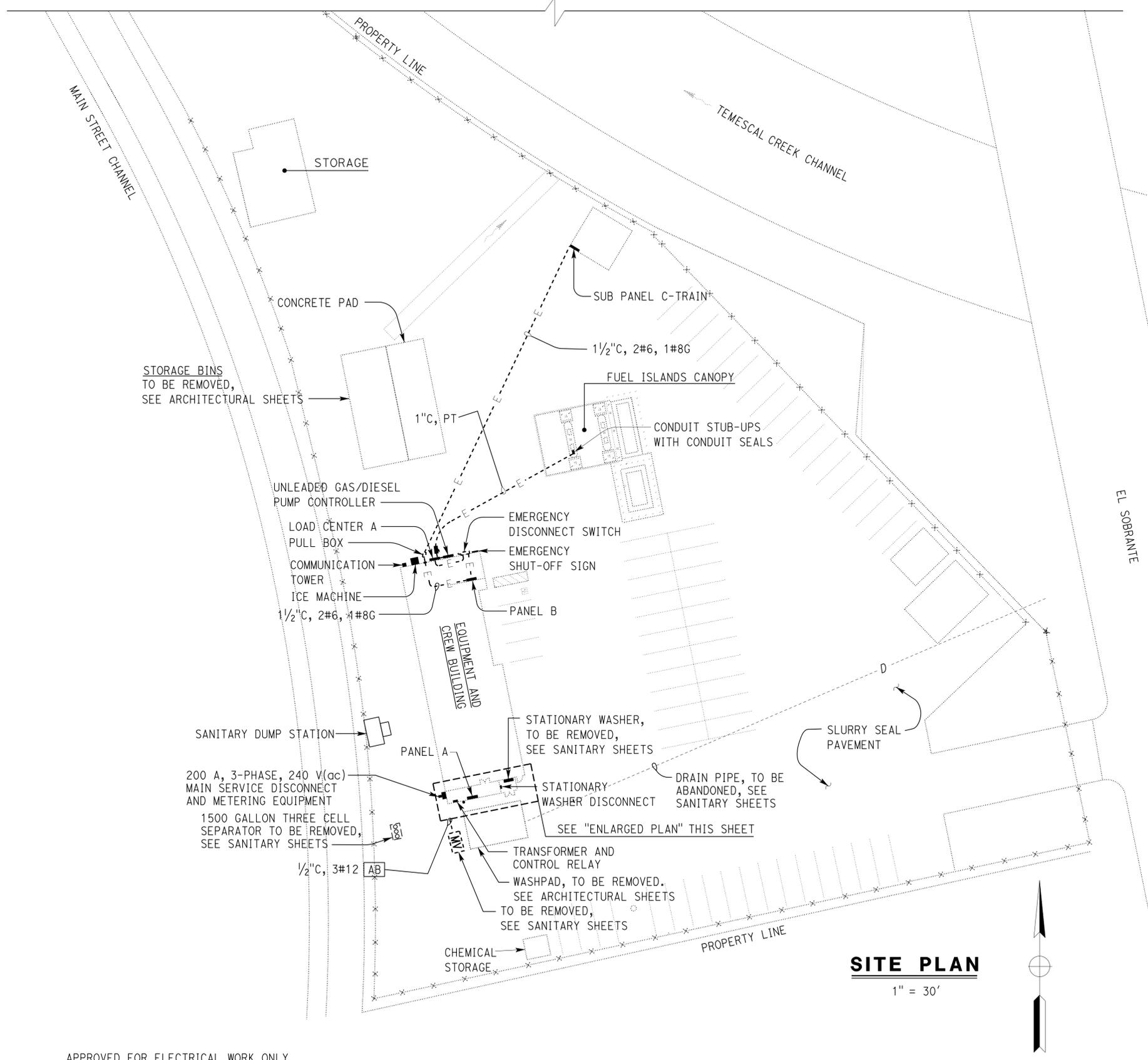
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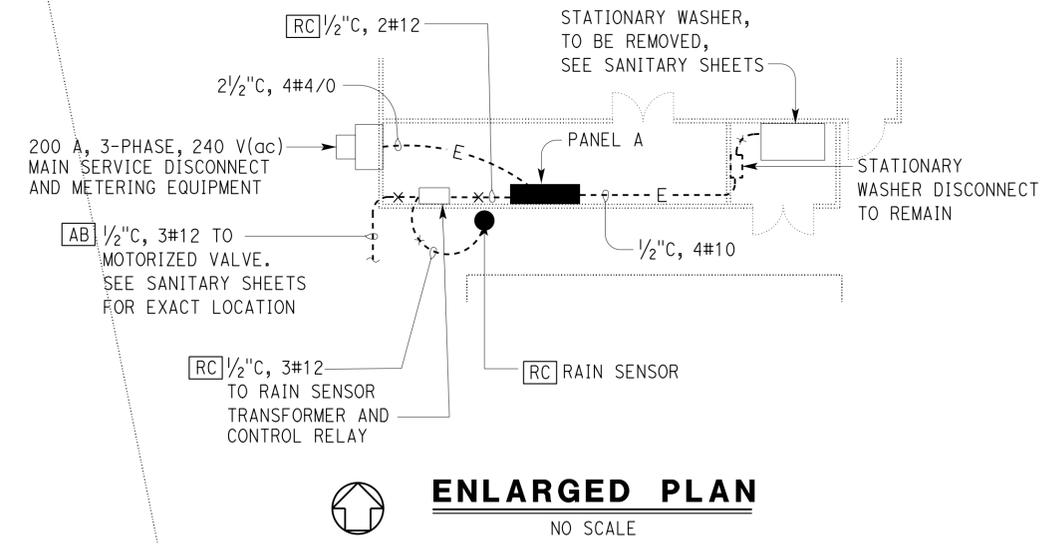
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		87	106
<i>Jaswinder Gill</i> REGISTERED ELECTRICAL ENGINEER		11-13-13 DATE			
3-24-14 PLANS APPROVAL DATE		<i>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.</i>			

**CALIFORNIA STATE FIRE MARSHAL APPROVED**  
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Reviewed by: *Aaron Greer*  
 Approval date: 10-16-13



- GENERAL NOTES:
- A. Existing underground electrical conduits and conductors system as shown are diagrammatic and their location as shown is approximate only.
  - B. Not all underground utilities shown.



**SITE PLAN**  
1" = 30'

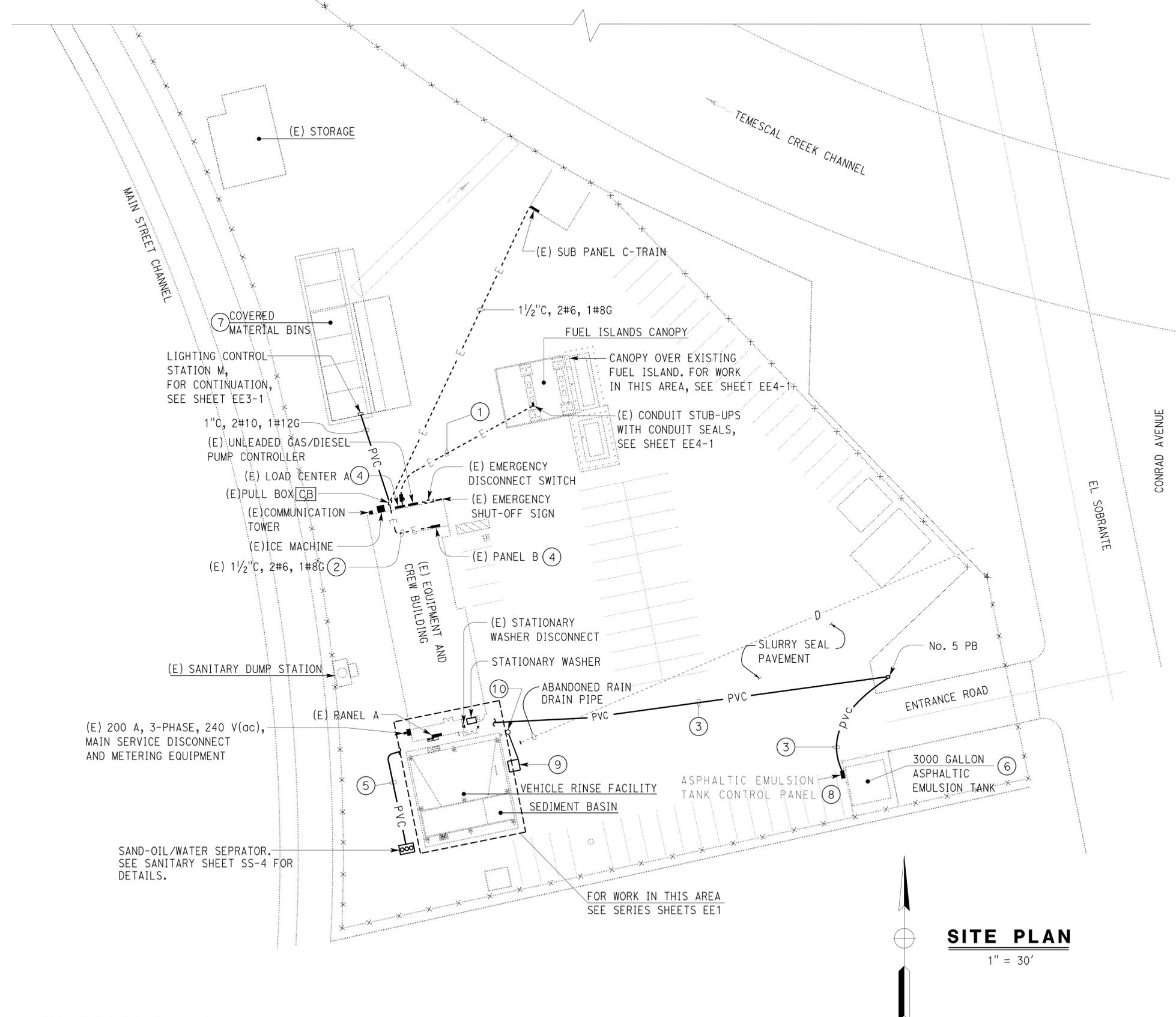
APPROVED FOR ELECTRICAL WORK ONLY

DESIGN SUPERVISOR <i>Paul Schreff</i>	DESIGN ENGINEER <i>Mark Chapp</i>	DESIGN BY Jipinderpal Kaur	CHECKED Jaswinder Gill	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 56M5730	<b>CORONA MAINTENANCE STATION</b> EXISTING SITE PLAN	SHEET <b>EE0-4</b>
		DETAILS BY Ed D. Tapalla	CHECKED Jipinderpal Kaur			POST MILE		
		QUANTITIES BY Jipinderpal Kaur	CHECKED Jaswinder Gill	UNIT: 3597 CONTRACT No.: 0R9701 PROJECT NUMBER & PHASE: 08120002241		DISREGARD PRINTS BEARING EARLIER REVISION DATES		SHEET OF
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS						REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF
TAEWW Imperial - CCSC Rev. 01/13				C:\expedit\corona_ms\05_ee0_04.dgn				

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		88	106
<b>Jaswinder S Gill</b> REGISTERED ELECTRICAL ENGINEER		11-13-13 DATE			
3-24-14 PLANS APPROVAL DATE		<i>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.</i>			

**CALIFORNIA STATE FIRE MARSHAL APPROVED**  
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Reviewed by: **AARON GREER**  
 Approval date: 10-16-13



- GENERAL NOTES:
- A. Not all underground utilities shown.
  - B. Elbows and conduit risers shall be PVC coated, rigid steel elbows and risers.
  - C. Sawcut existing pavement for underground conduit installation work. Patch damaged surfaces to match existing.
  - D. Unless otherwise noted, all new pull boxes shown here are traffic rated No. 5 pull boxes.
- NOTES:
- ① Existing 1" C, PT. Install 2#10, 1#12G and terminate on existing spare 20 A/1P circuit breaker No. 14 inside existing Load Center A. Seal the conduit seal after conductor installation.
  - ② Install 2#10, 1#12G to feed Material Bins lights and terminate on existing spare 20 A/1P circuit breaker #19 inside existing Panel B.
  - ③ 2" C, 4#4, 1#6G to existing Panel A via Gutter. See sheet EE1-1 for continuation.
  - ④ Update panel directory, as required.
  - ⑤ ¾" C with Sludge Sensor cable to the Sludge Sensor Controller.
  - ⑥ for Emulsion Tank details, see structural plans.
  - ⑦ For work in this area, see sheet EE3-1.
  - ⑧ For Emulsion Tank Control Panel details and schematic, see Mechanical sheet EE2-1.
  - ⑨ Type A Loop Detector Configuration. See Standard Plans ES-5A and RSP ES-5B for installation details.
  - ⑩ Detector Well, see Standard Plan RSP ES-5D. Splice loop conductors to lead-in-cable inside the Detector Well.

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN BY: Jipinderpal Kaur	CHECKED: Jaswinder Gill	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	BRIDGE No. 56M5730	<b>CORONA MAINTENANCE STATION</b> MODIFIED SITE PLAN	SHEET EEO-5
DETAILS BY: Ed D. Tapalla	CHECKED: Jipinderpal Kaur		POST MILE		OF
QUANTITIES BY: Jipinderpal Kaur	CHECKED: Jaswinder Gill		UNIT: 3597 CONTRACT No.: 0R9701 PROJECT NUMBER & PHASE: 08120002241		DISREGARD PRINTS BEARING EARLIER REVISION DATES
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3	3-01-13 4-12-13 6-14-13 7-12-13 8-23-13 11-13-13	SHEET OF	

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		89	106

Jaswinder S Gill  
REGISTERED ELECTRICAL ENGINEER DATE 11-13-13

3-24-14  
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
Jaswinder Gill  
No. 18551  
Exp. 12-31-14  
ELEC  
STATE OF CALIFORNIA

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LIGHTING FIXTURE SCHEDULE						
MANUFACTURER	TYPE	LAMP	Max INPUT WATTS	VOLTS	CONTROLS	DESCRIPTION
GARDCO P21 SERIES, BETA LED THE EDGE SERIES, OR EQUAL	L1	LED ARRAY	90 W	120 V	INTEGRAL MOTION SENSOR / FUSE. SEE NOTE 1. REMOTE PHOTOCELL.	COLUMN MOUNTED WITH 5" ARM OUTDOOR LED LUMINAIRE, 90 WATT LED ARRAY, TYPE FOUR MEDIUM DISTRIBUTION, FULL CUTOFF LUMINAIRE, 7000 MINIMUM DELIVERED LUMENS AT 4000 DEGREE KELVIN AND WITH CRI OF AT LEAST 70. THE FIXTURE MUST BE SLIM LOW-PROFILE DESIGN, CONSTRUCTED FROM ONE PIECE DIE-CAST, RUGGED ALUMINUM WITH INTEGRAL, WEATHERTIGHT LED ENGINE DRIVER COMPARTMENTS AND HIGH PERFORMANCE ALUMINUM HEATSINKS. ALL EXPOSED DIE-CAST SURFACE MUST HAVE A EPOXY PRIMER TO PROVIDE RESISTANCE TO CORROSION AND WHITE POWDER TOPCOAT. LED ENGINE DRIVER MUST BE UL LISTED, 277 V, 50,000 HOUR DESIGN LIFE, 0-10 V DIMMING, 0.9 MINIMUM POWER FACTOR, 5-YEAR WARRANTY, COMPLETE WITH INTERNAL THERMAL PROTECTION AND OVERLOAD PROTECTION. FIXTURES MUST BE UL LISTED FOR WET LOCATION AND IP66 RATED.
GARDCO EMCO ELG SERIES, BETA LED PKG 304 SERIES, OR EQUAL	L2	LED ARRAY	110 W	120 V	INTEGRAL MOTION SENSOR / FUSE. SEE NOTE 1. REMOTE PHOTOCELL.	SURFACE MOUNTED WITH CONSTRUCTION CHANNELS, OUTDOOR LED LUMINAIRE, 110 WATT LED ARRAY, TYPE FIVE MEDIUM DISTRIBUTION, FULL CUTOFF LUMINAIRE, 7000 MINIMUM DELIVERED LUMENS AT 4000 DEGREE KELVIN AND WITH CRI OF AT LEAST 70. THE FIXTURE MUST BE CONSTRUCTED FROM ONE PIECE DIE-CAST, RUGGED ALUMINUM WITH INTEGRAL, WEATHERTIGHT LED ENGINE DRIVER COMPARTMENTS AND HIGH PERFORMANCE ALUMINUM HEATSINKS WITH INTEGRATED LENS. ALL EXPOSED DIE-CAST SURFACE MUST HAVE A EPOXY PRIMER TO PROVIDE RESISTANCE TO CORROSION AND WHITE POWDER TOPCOAT. LED ENGINE DRIVER MUST BE UL LISTED, 277 V, 50,000 HOUR DESIGN LIFE, 0-10 V DIMMING, 0.9 MINIMUM POWER FACTOR, 5-YEAR WARRANTY, COMPLETE WITH INTERNAL THERMAL PROTECTION AND OVERLOAD PROTECTION. FIXTURES MUST BE UL LISTED FOR WET LOCATION AND IP66 RATED. FIXTURES MUST BE PROVIDED WITH BIRD GUARD OR BIRD SHROUD.
HOLOPHANE PETROLUX LED, BETA LED PKG 304 SERIES, OR EQUAL	L3	LED ARRAY	200 W	120 V	INTEGRAL MOTION SENSOR / FUSE. SEE NOTE 1. REMOTE PHOTOCELL.	SURFACE MOUNTED WITH CONSTRUCTION CHANNELS, OUTDOOR LED LUMINAIRE, MAXIMUM 200 WATT LED ARRAY, TYPE FIVE MEDIUM DISTRIBUTION, FULL CUTOFF LUMINAIRE, 18,000 MINIMUM DELIVERED LUMENS AT 4000 DEGREE KELVIN AND WITH CRI OF AT LEAST 70. THE FIXTURE MUST BE CONSTRUCTED FROM ONE PIECE DIE-CAST, RUGGED ALUMINUM WITH INTEGRAL, WEATHERTIGHT LED ENGINE DRIVER COMPARTMENTS AND HIGH PERFORMANCE ALUMINUM HEATSINKS WITH INTEGRATED LENS. ALL EXPOSED DIE-CAST SURFACE MUST HAVE A EPOXY PRIMER TO PROVIDE RESISTANCE TO CORROSION AND WHITE POWDER TOPCOAT. LED ENGINE DRIVER MUST BE UL LISTED, 277 V, 50,000 HOUR DESIGN LIFE, 0-10 V DIMMING, 0.9 MINIMUM POWER FACTOR, 5-YEAR WARRANTY, COMPLETE WITH INTERNAL THERMAL PROTECTION AND OVERLOAD PROTECTION. FIXTURES MUST BE UL LISTED FOR WET LOCATION AND IP66 RATED. FIXTURES MUST BE PROVIDED WITH BIRD GUARD OR BIRD SHROUD.

**CALIFORNIA STATE FIRE MARSHAL**  
**APPROVED**

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Reviewed by:   
AARON GREER  
Approval date: 10-16-13

General Note:  
A. For California Energy Commission Mandatory measures, see sheet EE0-2.

Note:

- ① Integral motion sensors must be a factory installed motion sensor built into the fixture housing and uses passive infrared technology to detect motions. Motion sensor coverage must be equal or greater than 2 mounting height diameter coverage with a 360 Degree circular pattern. Motion sensor must dim the fixture light output by 80 percent when there is no motion detected.

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY Jipinderpal Kaur	CHECKED Jaswinder Gill
DETAILS	BY Ed D. Tapalla	CHECKED Jipinderpal Kaur
QUANTITIES	BY Jipinderpal Kaur	CHECKED Jaswinder Gill

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

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

BRIDGE No. 56M5730  
POST MILE

CORONA MAINTENANCE STATION

LIGHTING SCHEDULE

SHEET EEO-6 OF

GENERAL NOTES:

- A. Exact location of all electrical equipment such as light fixtures and receptacle must be per the Engineer's direction in the field.
- B. All exposed conduits must be 3/4" minimum RSC, unless otherwise noted.
- C. All junction boxes and outlet boxes must be weatherproof type, cast iron boxes.

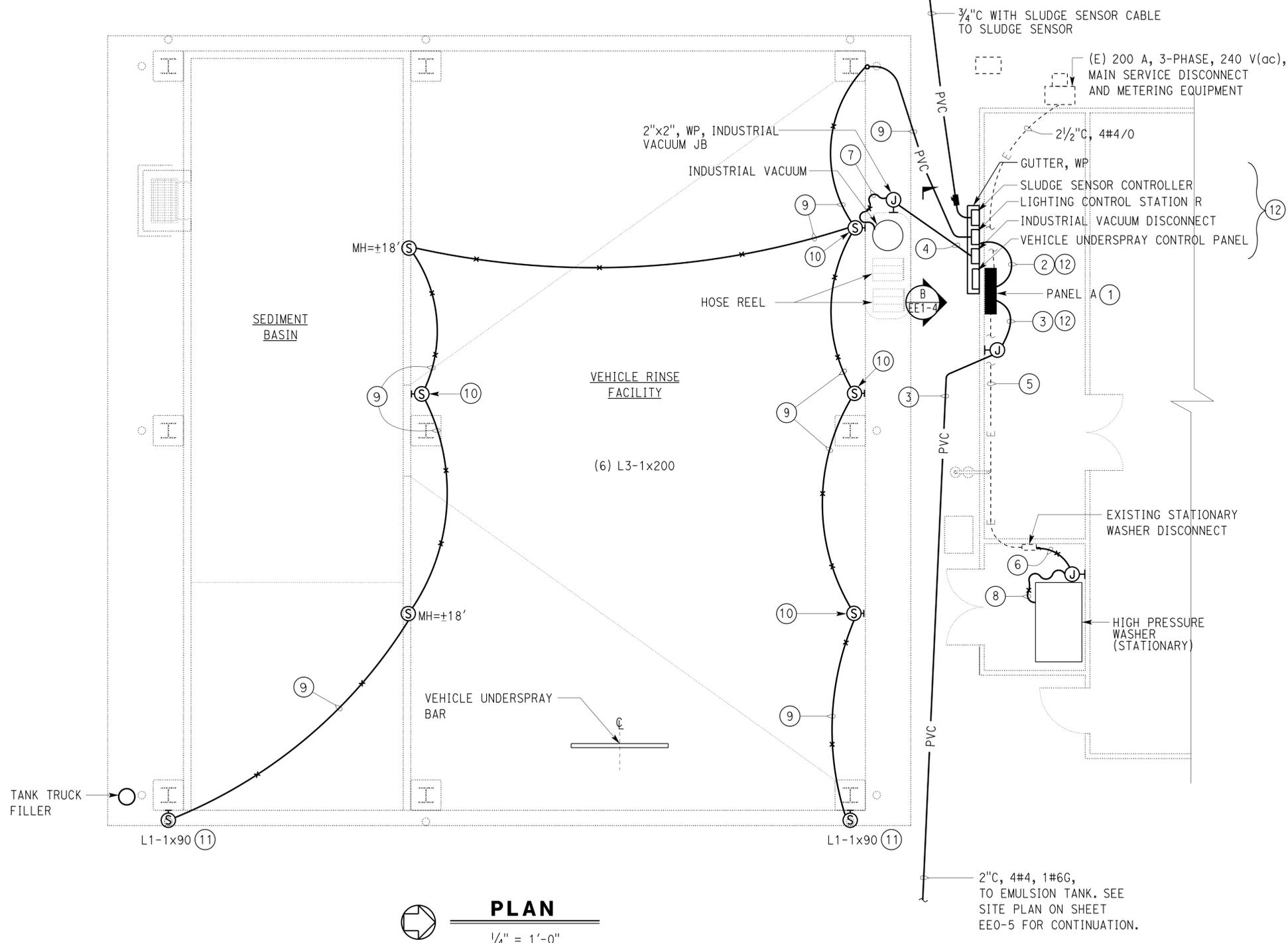
- D. All conduit fittings must be weatherproof type.
- E. For Lighting Fixture Schedule, see sheet EE0-6.

**CALIFORNIA STATE FIRE MARSHAL APPROVED**  
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 Reviewed by: AARON GREER  
 Approval date: 10-16-13

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		90	106
Approved by: <u>Jaswinder Gill</u> REGISTERED ELECTRICAL ENGINEER			DATE		
			11-13-13		
			3-24-14		
			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.					



SEE SITE PLAN ON SHEET EE0-5 FOR CONTINUATION



NOTES:

- 1 Existing Panel A is 225 A, 120/208 V, 3-phase, 4-wire Cutler Hammer Company, Type PH panelboard.  
 Perform the following at the Panelboard:  
 - Remove (E) 2-pole circuit breakers from space No. 20-22 and space No. 37-39.  
 - Remove (E) GFCI circuit breaker from space No. 24 and install it at space No. 39. Re-feed (E) circuit No. 24 from relocated GFCI circuit breaker at No. 39 by extending the conductors using butt splice connectors as required.  
 - Install 3-pole, 60 A, 208 V rated circuit breaker at space No. 20-22-24 to feed Emulsion tank and install 1-pole, 20 A, 120 V rated circuit breaker at space No. 37 to feed Industrial Vacuum.  
 - Update Panel directory.
- 2 1" C, 6#10, 1#12G. Terminate 1#10 on an existing 20 A/1P spare circuit breaker at space No. 11 for Vehicle Rinse Facility canopy lights, Sludge Sensor Controller and Vehicle Underspray Control Panel. Terminate 1#10 on existing 20 A/1P circuit breaker at space No. 23 and terminate 1#10 on existing 20A/1P circuit breaker at space No. 37 for Industrial Vacuum inside existing Panel A. Update the Panel directory.
- 3 2" C, 4#4, 1#6G to the Emulsion Tank Control Panel. Terminate 3#4 on 60 A/3P spare circuit breaker at space No. 20-22-24 inside existing Panel A. Update the Panel directory.
- 4 3/4" PVC coated RSC, 4#10, 1#12G (A23, A37). See Sanitary plans for conduit and Industrial Vacuum junction box installation details. Coordinate conduit stub up and junction box installation with the Industrial Vacuum manufacturer recommendations.
- 5 Existing 1/2" C, 4#10 (A38-40-42). Install 1#12G and terminate on existing ground bus inside existing Panel A.
- 6 1" C, 4#10, 1#12G (A38-40-42). Terminate at the junction box.
- 7 3/4" liquid tight flexible metallic conduit, 4#10, 1#12G. Terminate conduit as recommended by the Industrial Vacuum manufacturer.
- 8 1" C, 4#10, 1#12G, liquid tight flexible metallic conduit. Terminate at High Pressure washer (stationary) power and control panel as recommended by the High Pressure washer (stationary) manufacturer.
- 9 3/4" C 2#10, 1#12G.
- 10 See Detail 2 on sheet EE1-4 for fixture mounting details.
- 11 Mount fixture at 18' using construction channels and u-bolts on the structural steel columns.
- 12 For Power distribution, see Wiring Diagram on sheet EE1-4.

APPROVED FOR ELECTRICAL WORK ONLY

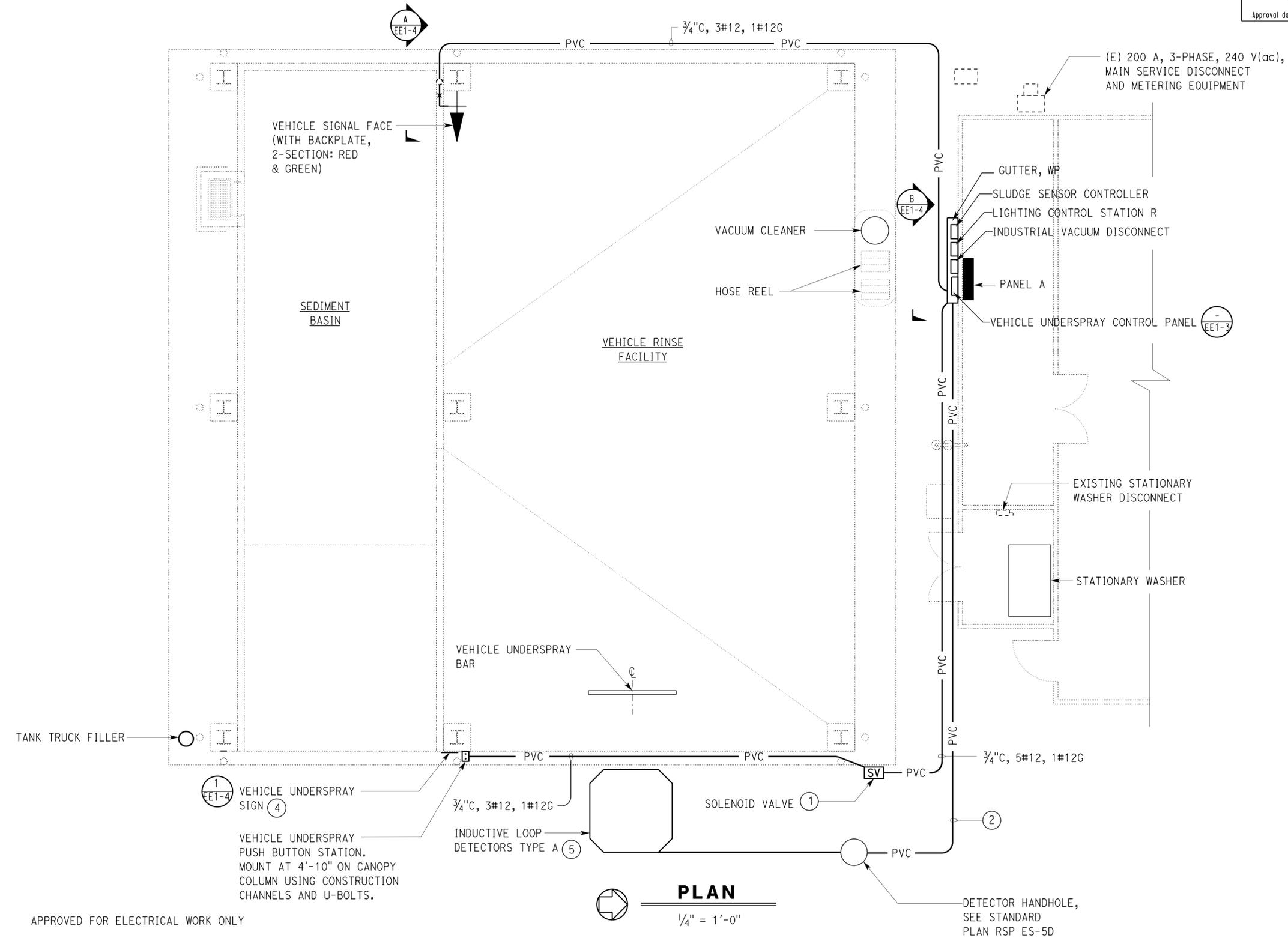
**PLAN**  
 1/4" = 1'-0"

DESIGN BY Jipinderpal Kaur	CHECKED Jaswinder Gill	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	CORONA MAINTENANCE STATION		SHEET EE1-1
				56M5730	VEHICLE RINSE FACILITY		
DETAILS BY Ed D. Tapalla	CHECKED Jipinderpal Kaur			POST MILE	POWER AND LIGHTING PLAN		SHEET OF
QUANTITIES BY Jipinderpal Kaur	CHECKED Jaswinder Gill						
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3597 CONTRACT No.: 0R9701 PROJECT NUMBER & PHASE: 08120002241		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	
0 1 2 3				3-01-13 4-12-13 6-14-13 7-12-13 8-23-13 11-13-13			

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		91	106
<b>Jaswinder &amp; Co</b> REGISTERED ELECTRICAL ENGINEER		11-13-13 DATE			
3-24-14 PLANS APPROVAL DATE					
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**CALIFORNIA STATE FIRE MARSHAL APPROVED**  
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Reviewed by: AARON GREER  
 Approval date: 10-16-13



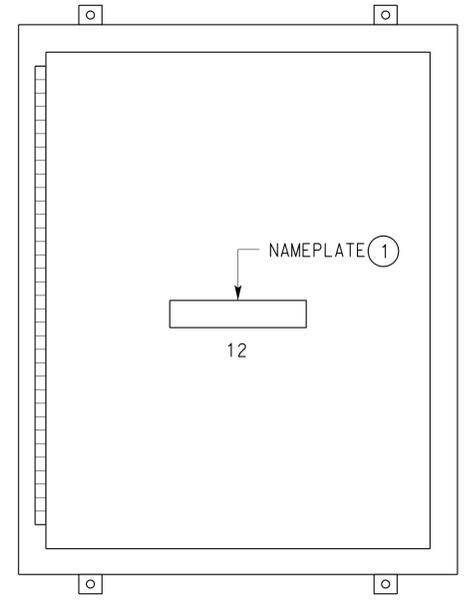
- GENERAL NOTES:**
- A. Exact location of all electrical equipment must be per the Engineer's direction in the field.
  - B. All exposed conduits must be 3/4" minimum RSC, unless otherwise noted.
  - C. All junction boxes and outlet boxes must be weatherproof type, cast iron boxes.
  - D. All conduit fittings must be weatherproof type.
- NOTES:**
- ① For conduit termination at Solenoid Valve, see Sanitary Sheet SS-7. For schematic, see sheet EE1-3.
  - ② 3/4" C, 1 lead-in-cable.
  - ③ 1/2" C, 4#10, 1#12G.
  - ④ Secure sign to the structural steel column above the Vehicle Underspray Push button Station.
  - ⑤ See Standard Plans ES-5A and RSP ES-5B for installation details.

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

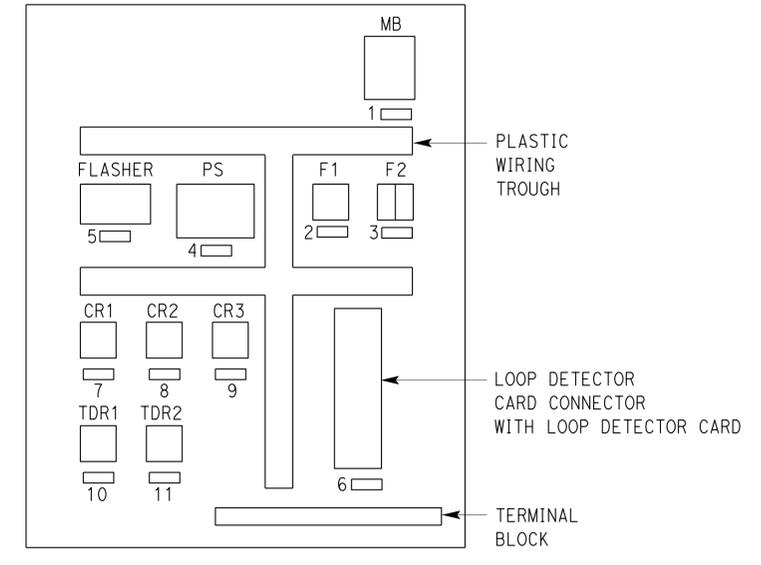
APPROVED FOR ELECTRICAL WORK ONLY

DESIGN BY <b>Jipinderpal Kaur</b>	CHECKED <b>Jaswinder Gill</b>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 56M5730	CORONA MAINTENANCE STATION		SHEET <b>EE1-2</b>				
				POST MILE	VEHICLE RINSE FACILITY	VEHICLE UNDERSPRAY POWER PLAN					
DETAILS BY <b>Ed D. Tapalla</b>	CHECKED <b>Jipinderpal Kaur</b>	UNIT: 3597 CONTRACT No.: 0R9701 PROJECT NUMBER & PHASE: 08120002241		DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)						
QUANTITIES BY <b>Jipinderpal Kaur</b>	CHECKED <b>Jaswinder Gill</b>	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3	3-01-13	4-12-13	6-14-13	7-12-13	8-23-13	11-13-13	SHEET OF

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**INTERIOR DOOR MOUNTED EQUIPMENT**



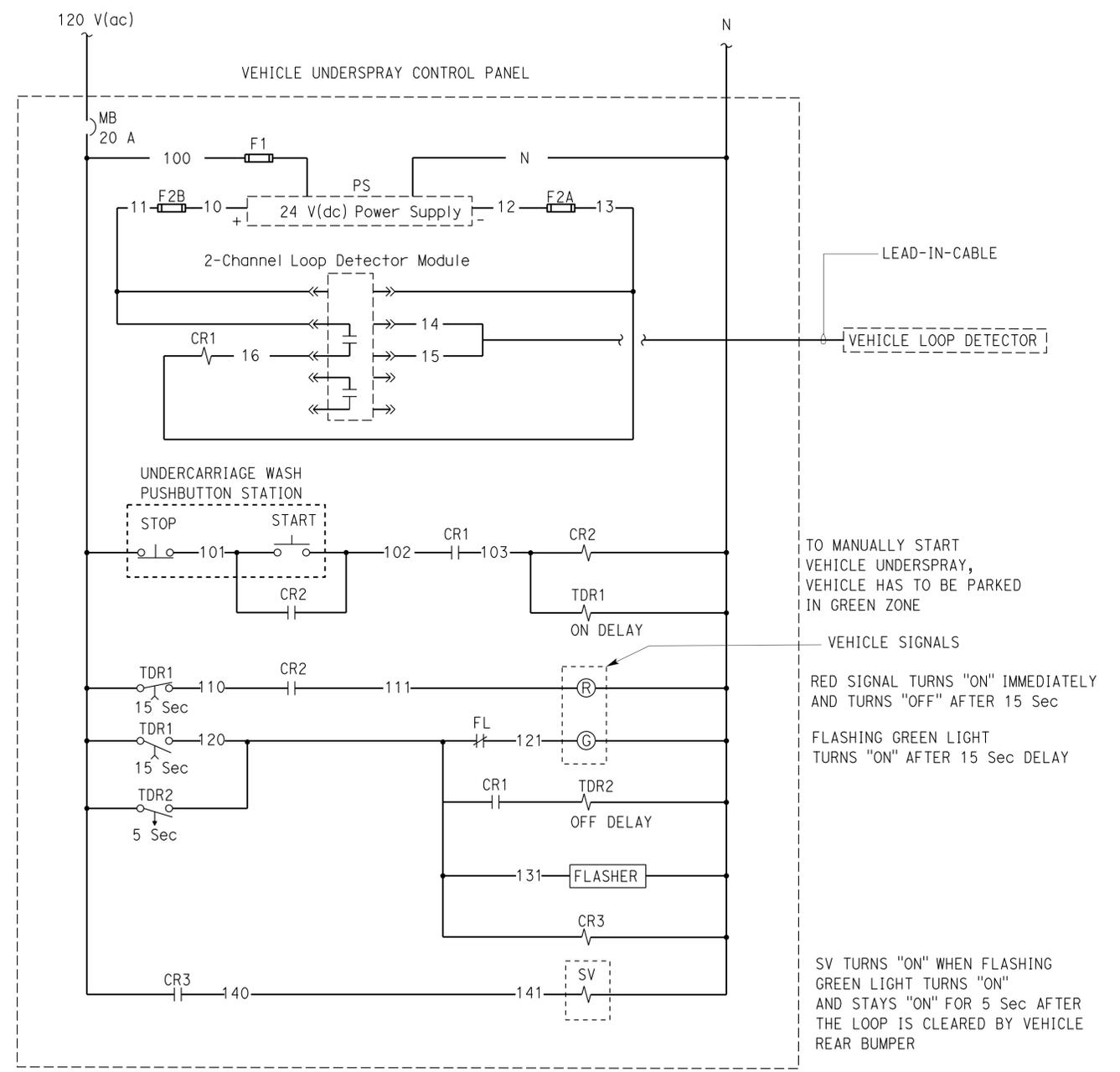
**PANEL MOUNTED EQUIPMENT**

**VEHICLE UNDERSPRAY CONTROL PANEL**

NO SCALE  
(EXTERIOR HINGED DEADFRONT DOOR NOT SHOWN)

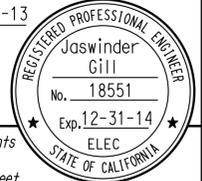
- NOTE:
- ① Install Nameplate (12) on exterior dead front door.

NAMEPLATE SCHEDULE		
ITEM No.	INSCRIPTION	LETTER HEIGHT
1	MAIN BREAKER	1/8"
2	F1	1/8"
3	F2	1/8"
4	24 V(dc) PS	1/8"
5	FLASHER	1/8"
6	LOOP DETECTOR CARD	1/8"
7	CR1	1/8"
8	CR2	1/8"
9	CR3	1/8"
10	TDR1	1/8"
11	TDR2	1/8"
12	VEHICLE UNDERSPRAY CONTROL PANEL	1/4"

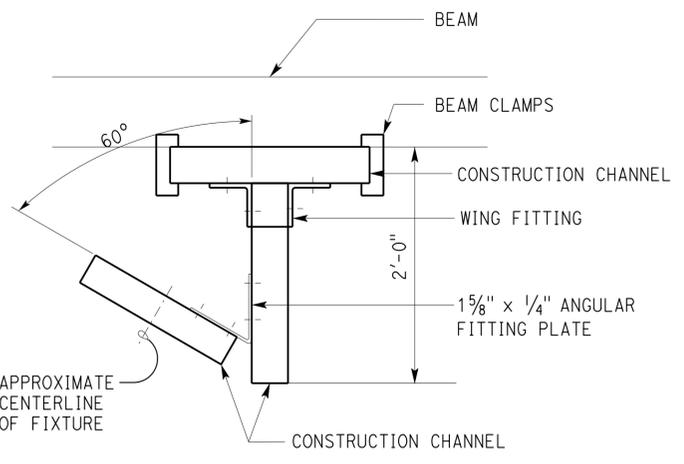


TO MANUALLY START VEHICLE UNDERSPRAY, VEHICLE HAS TO BE PARKED IN GREEN ZONE  
 VEHICLE SIGNALS  
 RED SIGNAL TURNS "ON" IMMEDIATELY AND TURNS "OFF" AFTER 15 Sec  
 FLASHING GREEN LIGHT TURNS "ON" AFTER 15 Sec DELAY  
 SV TURNS "ON" WHEN FLASHING GREEN LIGHT TURNS "ON" AND STAYS "ON" FOR 5 Sec AFTER THE LOOP IS CLEARED BY VEHICLE REAR BUMPER

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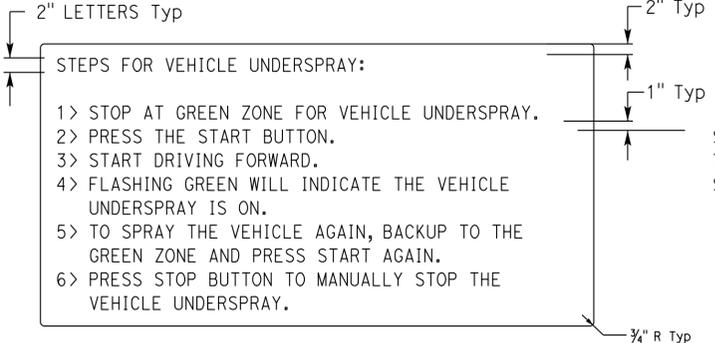


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Reviewed by: AARON GREER  
Approval date: 10-16-13



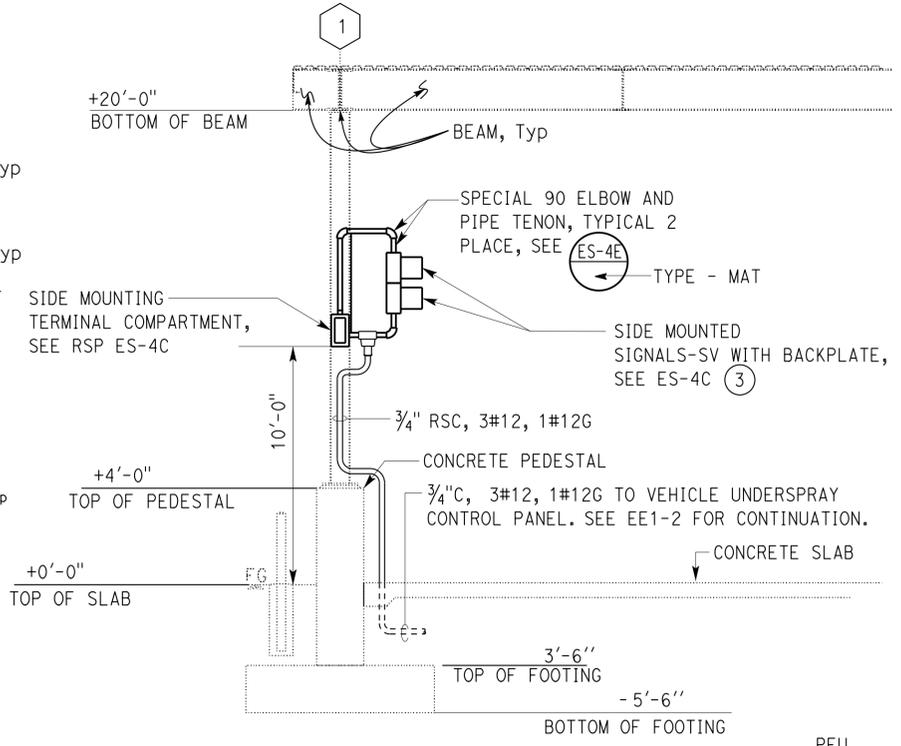
**2 FIXTURE MOUNTING DETAIL**

NO SCALE  
(TWO ASSEMBLIES REQUIRED PER FIXTURE)



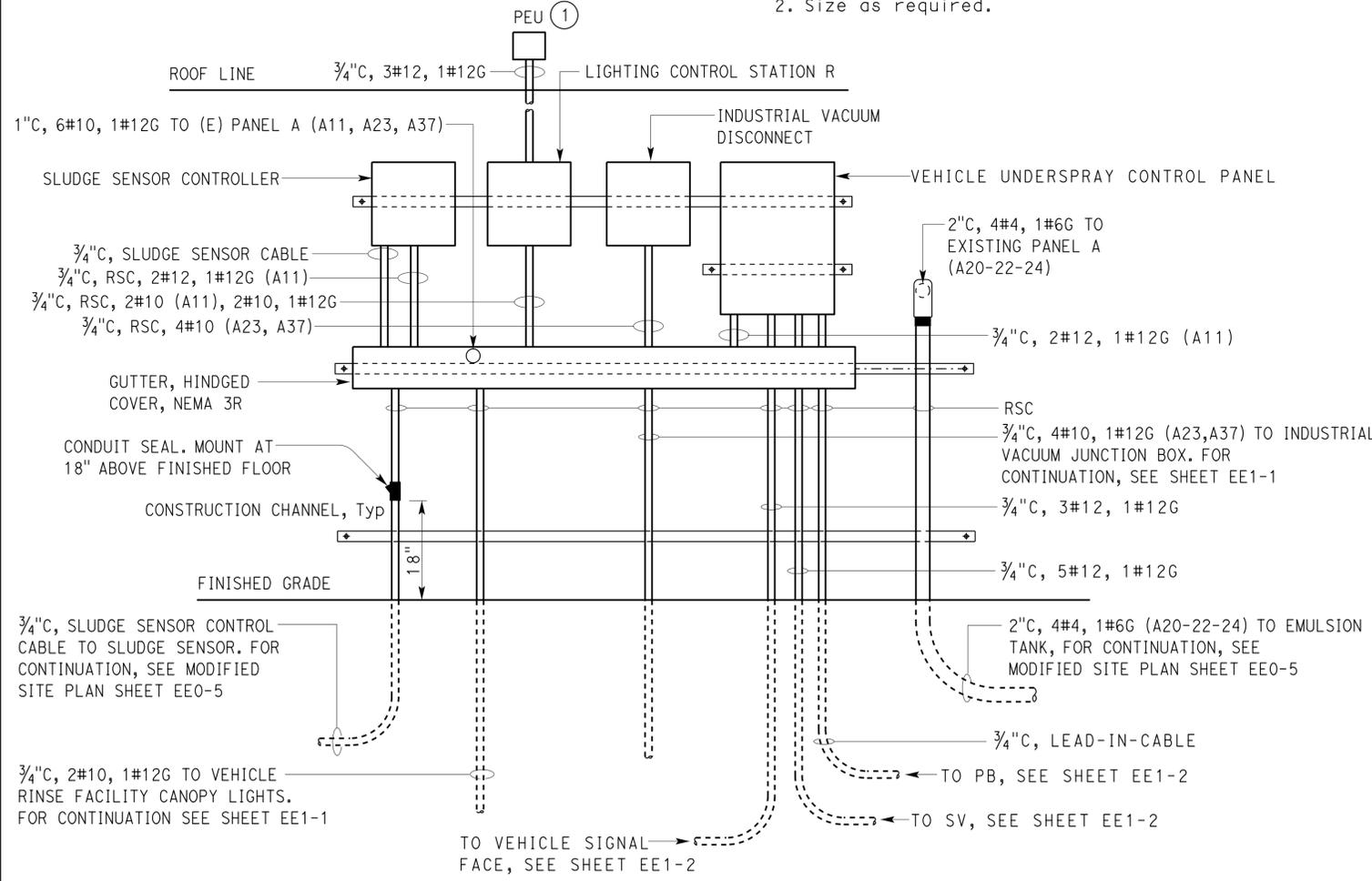
**1 VEHICLE UNDERSPRAY SIGN**

NOTE:  
1. Black letters on white background.  
2. Size as required.



**A ELEVATION**

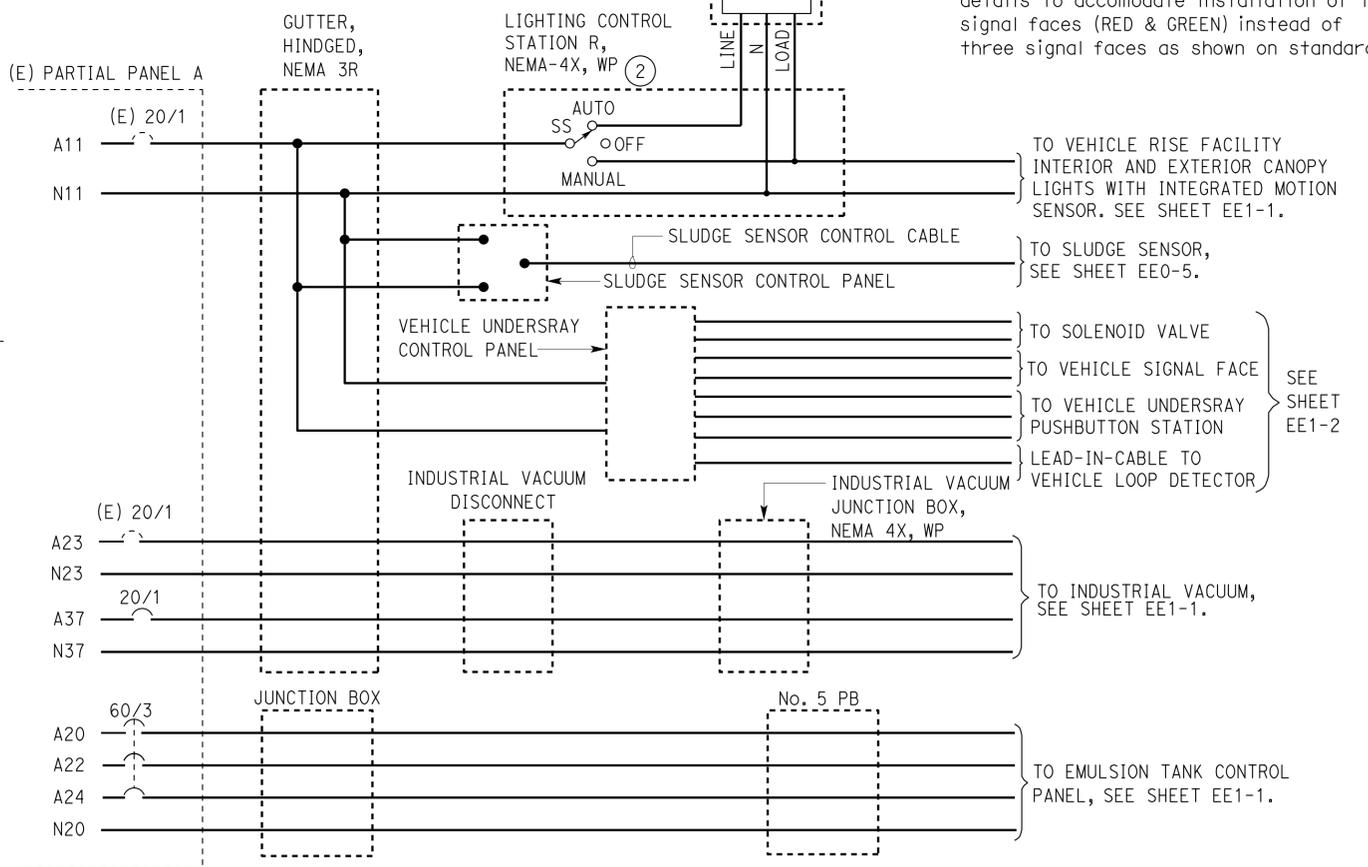
NO SCALE



**B ELEVATION**

NO SCALE

APPROVED FOR ELECTRICAL WORK ONLY



**WIRING DIAGRAM**

DESIGN	BY Jipinderpal Kaur	CHECKED Jaswinder Gill
DETAILS	BY Ed D. Tapalla	CHECKED Jipinderpal Kaur
QUANTITIES	BY Jipinderpal Kaur	CHECKED Jaswinder Gill

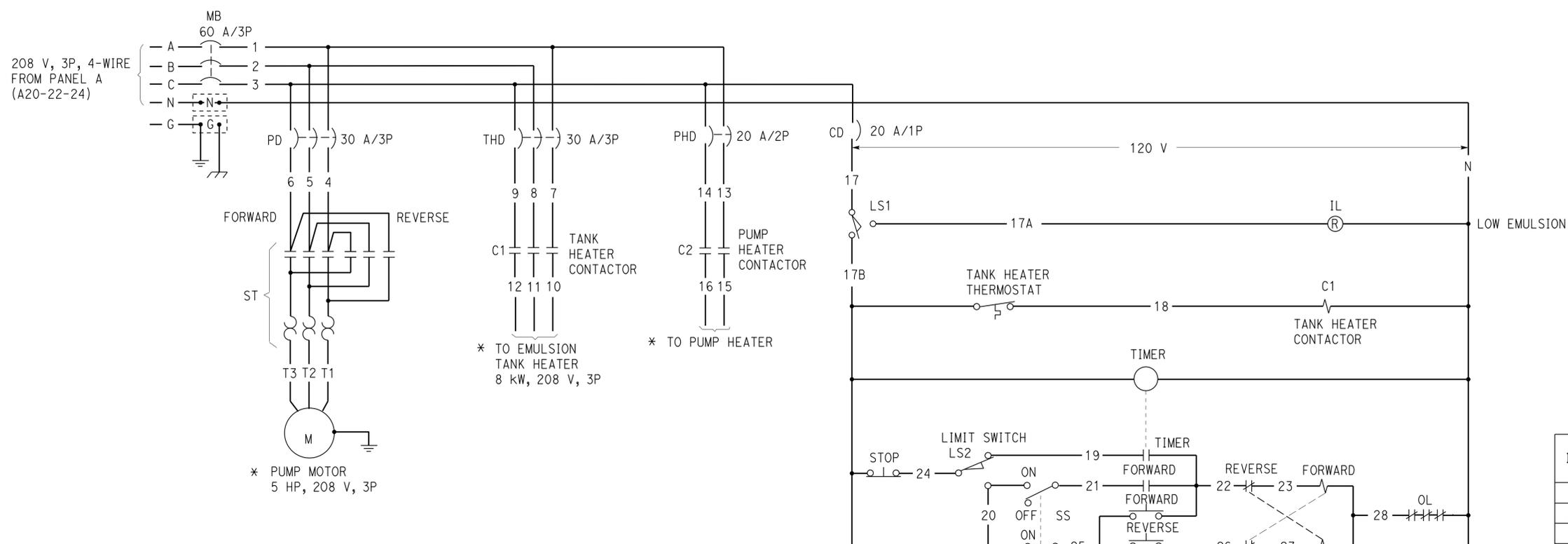
STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

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

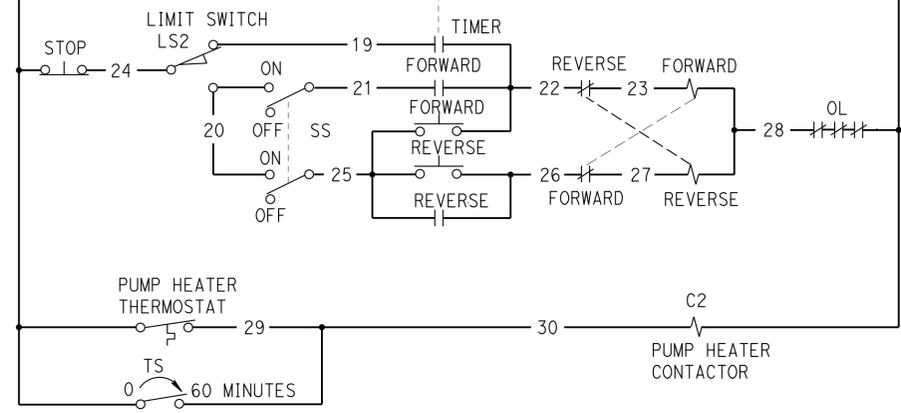
BRIDGE No. 56M5730  
POST MILE

CORONA MAINTENANCE STATION  
VEHICLE RINSE FACILITY  
ELECTRICAL DETAILS

SHEET EE1-4 OF



**POWER DISTRIBUTION DIAGRAM**

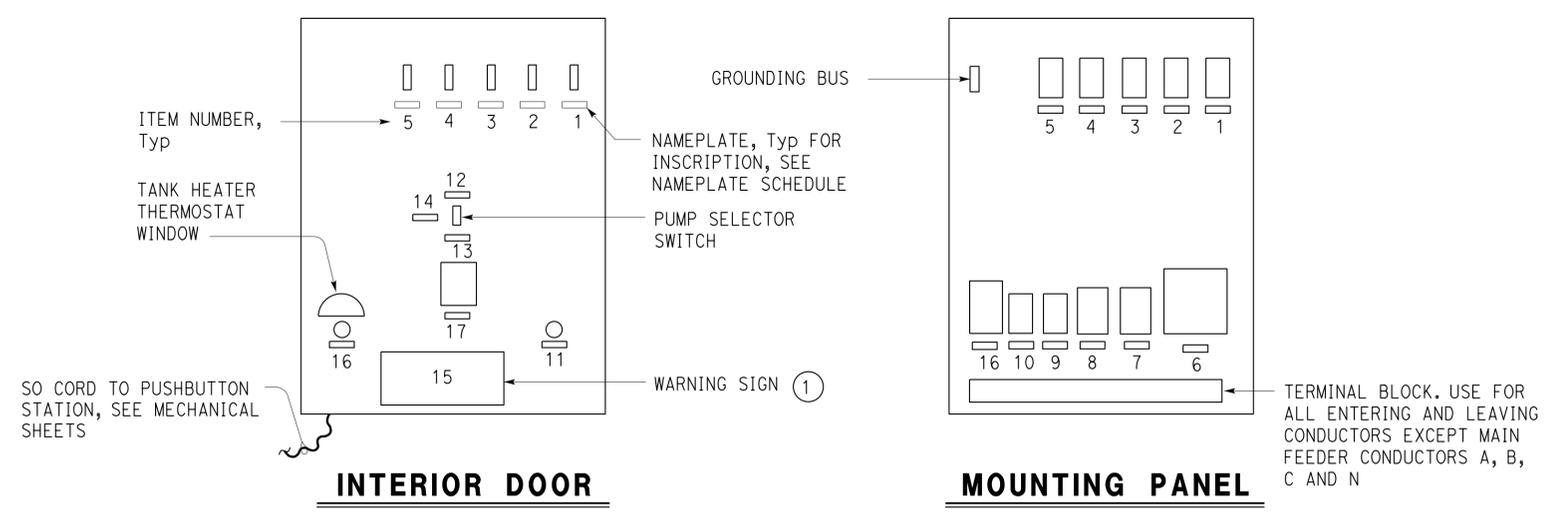


**CONTROL SCHEMATIC**

**NAMEPLATE SCHEDULE**

ITEM NO.	INSCRIPTION	LETTER HEIGHT (inch)
1 (MB)	MAIN CIRCUIT BREAKER	1/8
2 (PD)	PUMP MOTOR DISCONNECT	
3 (THD)	TANK HEATER DISCONNECT	
4 (PHD)	PUMP HEATER DISCONNECT	
5 (CD)	CONTROL DISCONNECT	
6 (ST)	PUMP MOTOR STARTER	
7 (C1)	TANK HEATER CONTACTOR	
8	TIMER	
9 (C2)	PUMP HEATER CONTACTOR	
10	PUMP HEATER THERMOSTAT	
11	RESET	
12	ON	
13	OFF	
14	PUMPING	
15 (Warning sign)	RESET THE VALVE HANDLE TO RECIRCULATION MODE AFTER PUMPING IN OR OUT	1/4
16	TANK HEATER THERMOSTAT	1/8
17	0-60 MINUTE TIMER SWITCH (PUMP HEATER)	1/8
18	EMULSION TANK CONTROL PANEL	1/4*
19	PUMP OUT	1/4**
20	RECIRCULATE	1/4**

\* INSTALLED ON EXTERIOR DOOR  
\*\* INSTALL AS SHOWN ON MECHANICAL PLANS



**CONTROL PANEL (EXTERIOR DOOR NOT SHOWN)**

① A SECOND WARNING SIGN WITH THE SAME INSCRIPTION MUST BE POSTED ADJACENT TO THE THREE-WAY VALVE.

GENERAL NOTE:  
This sheet typical for all maintenance stations.

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		95	106
Jaswinder Gill		11-13-13		DATE	
REGISTERED ELECTRICAL ENGINEER				No. 18551	
3-24-14		PLANS APPROVAL DATE		Exp. 12-31-14	
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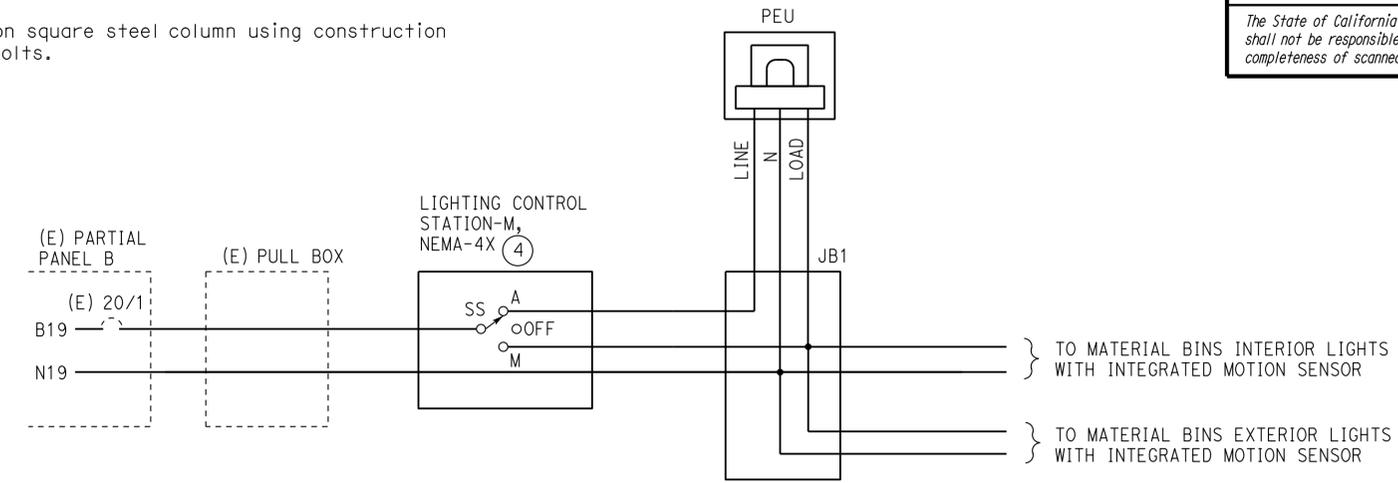
**GENERAL NOTES:**

- A. Exact location of all electrical equipment such as light fixtures and control stations must be per the Engineer's direction in the field.
- B. All conduits inside Material Bins Building shall be 3/4" minimum RSC, unless otherwise noted.
- C. All junction boxes and outlet boxes inside Material Bins Building must be weatherproof type, cast iron boxes.
- D. All conduit fittings must be weatherproof type.

- ④ Selector switch for the Lighting Control Station must be installed inside a surface mounted NEMA-4X metallic enclosure with interior hinged door for mounting selector switch and weatherproof exterior hinged door.
- ⑤ Install PEU one foot above canopy roof facing North.
- ⑥ Mount fixture on square steel column using construction channel and U-bolts.

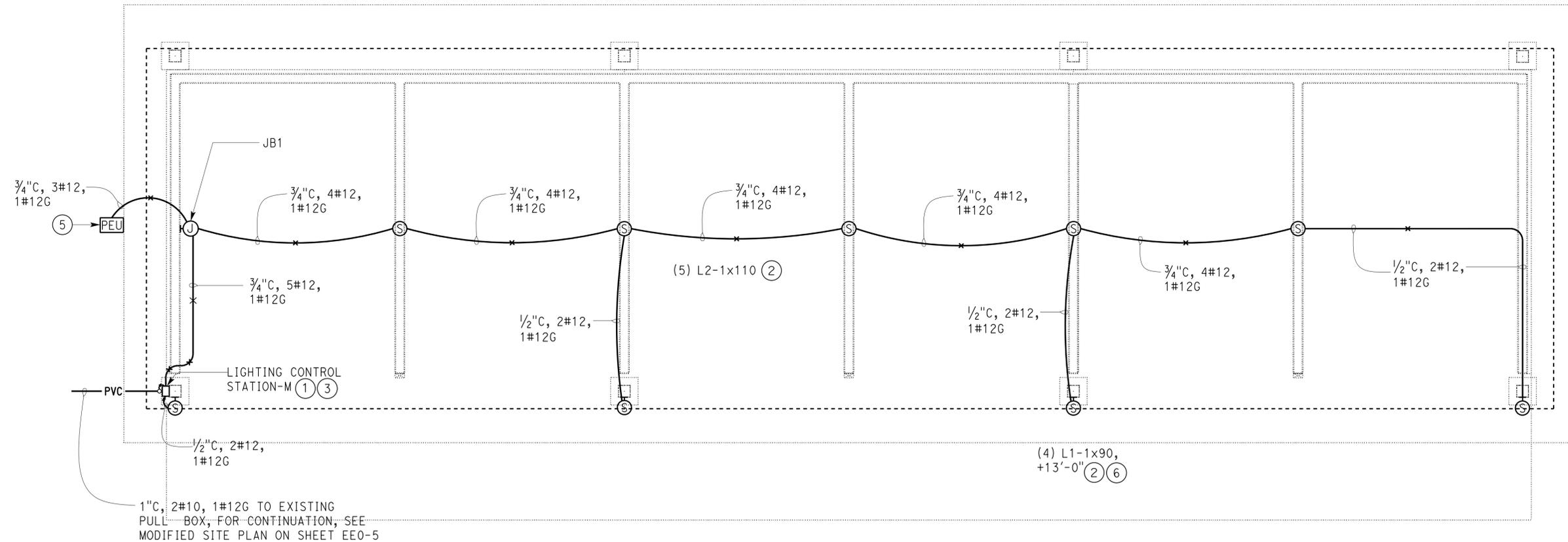
**NOTES:**

- ① Mount at 4'-10" on structural column using construction channel and beam clamps/stainless steel straps.
- ② See Lighting Fixture Schedule on Sheet EE0-6.
- ③ See Lights Control Schematic, this sheet.



**LIGHTS CONTROL SCHEMATIC**

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 Reviewed by: AARON GREER  
 Approval date: 10-16-13



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

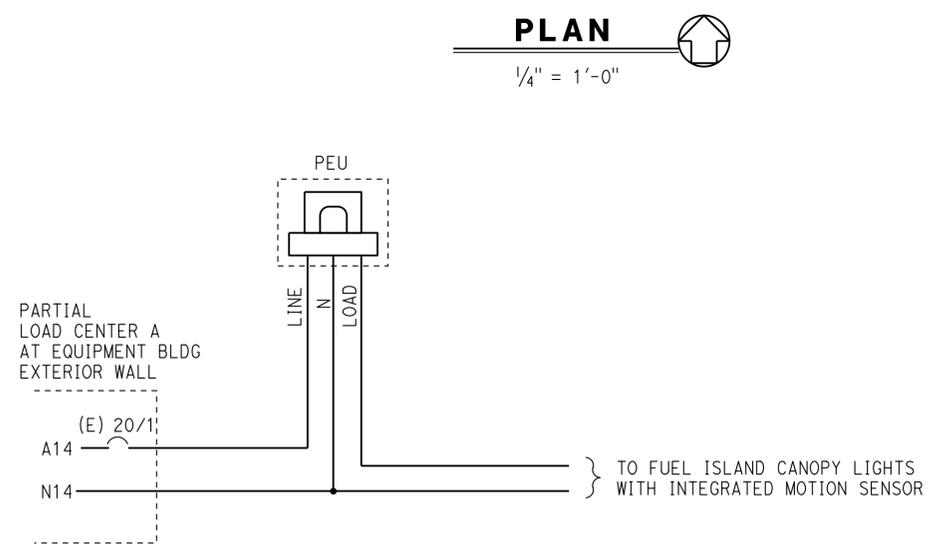
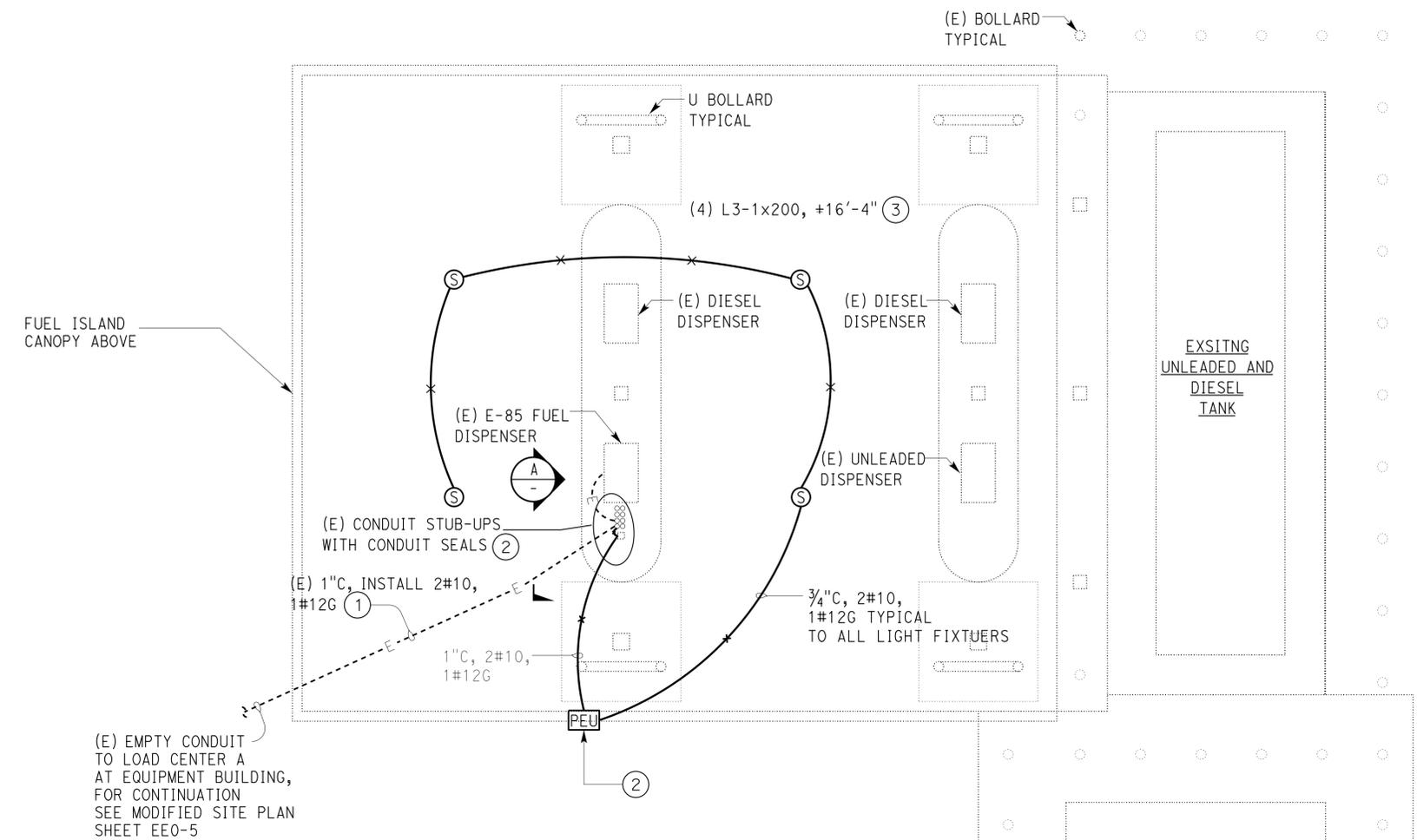
APPROVED FOR ELECTRICAL WORK ONLY

DESIGN BY Jipinderpal Kaur CHECKED Jaswinder Gill	BY Ed D. Tapalla CHECKED Jipinderpal Kaur	BY Jipinderpal Kaur CHECKED Jaswinder Gill	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 56M5730	CORONA MAINTENANCE STATION		SHEET EE3-1			
					POST MILE	MATERIAL BINS	POWER AND LIGHTING PLAN	OF			
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			0 1 2 3	UNIT: 3597 CONTRACT No.: 0R9701 PROJECT NUMBER & PHASE: 08120002241	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)					
TAEWW Imperial - CCSC Rev. 01/13						3-01-13	4-12-13	6-14-13	7-12-13	8-23-13	11-13-13

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		96	106
<b>Jaswinder S Gill</b> REGISTERED ELECTRICAL ENGINEER		11-13-13 DATE			
3-24-14 PLANS APPROVAL DATE					
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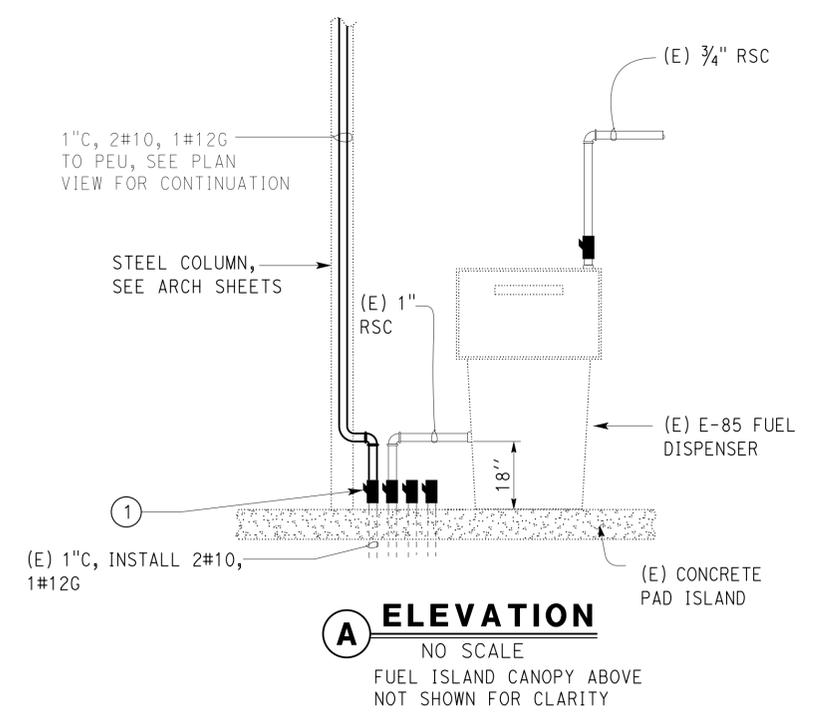
Reviewed by: AARON GREER  
 Approval date: 10-16-13



**LIGHTS CONTROL SCHEMATIC**

APPROVED FOR ELECTRICAL WORK ONLY

- GENERAL NOTES:
- A. All existing conduit system not shown.
  - B. All conduits inside Fuel Island Canopy must be 3/4" minimum RSC, unless otherwise noted.
  - C. All junction boxes and outlet boxes inside Fuel Island Canopy must be explosionproof type, cast iron boxes.
  - D. All conduit fittings must be explosionproof type.
- NOTES:
- (1) Break the existing conduit seal and install new conductors as shown. Connect new 1" RSC to existing conduit seal and support the new conduit on the new support column.
  - (2) For work in this area see Elevation A, this sheet.
  - (3) See Lighting Fixture Schedule on Sheet EE0-6.



**A ELEVATION**  
 NO SCALE  
 FUEL ISLAND CANOPY ABOVE NOT SHOWN FOR CLARITY

DESIGN BY <b>Jipinderpal Kaur</b>	CHECKED BY <b>Jaswinder Gill</b>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 56M5730	CORONA MAINTENANCE STATION		SHEET <b>EE4-1</b>
				POST MILE	FUEL ISLAND CANOPY	POWER AND LIGHTING PLAN	
DETAILS BY <b>Ed D. Tapalla</b>	CHECKED BY <b>Jipinderpal Kaur</b>	UNIT: 3597 CONTRACT No.: 0R9701 PROJECT NUMBER & PHASE: 08120002241		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	
QUANTITIES BY <b>Jipinderpal Kaur</b>	CHECKED BY <b>Jaswinder Gill</b>	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3		3-01-13 4-12-13 6-14-13 7-12-13 8-23-13 11-13-13	

TAEWW Imperial - CCSC Rev. 01/13 C:\expedite\corona\_ms\13\_ee4\_01.dgn

## ABBREVIATIONS

<p>AB AGGREGATE BASE          AC ASPHALT CONCRETE          Approx APPROXIMATE          B BUNG          Bldg BUILDING          C CONDUIT          C-C CENTER TO CENTER          CFS CUBIC FEET PER SECOND          CI CAST IRON          CL CHAIN LINK          CMP CORRUGATED METAL PIPE          Conc CONCRETE          Cont CONTINUOUS          COTF CLEANOUT TO FLOOR          COTG CLEANOUT TO GRADE          Cplg COUPLING          CW COLD WATER PIPE          D DRAIN          DBH DIAMETER AT BREAST HEIGHT          DI DRAIN INLET          Dia DIAMETER          DP DRAIN PIPE          E ELECTRICAL          (E) EXISTING          Ea EACH          EI ELEVATION          EP EDGE OF PAVEMENT          Eq EQUAL          FOB FACE OF BUILDING          FF FINISH FLOOR          FG FINISH GRADE          FL FLOW LINE          FM FORCE MAIN          FOC FACE OF CONCRETE          FS FLOW SWITCH          Ft FEET          FTR FLUE THROUGH ROOF          Ga GAUGE          GAC GRANULAR ACTIVATED CARBON          Gal GALLON          GPM GALLONS PER MINUTE          Galv GALVANIZED          GSP GALVANIZED STEEL PIPE          GV GATE VALVE          GS GOVERNMENT SERVICE LINE          H HEIGHT          HF HOSE FAUCET          HMA HOT MIX ASPHALT          HP HORSEPOWER          Hz HERTZ          ID INSIDE DIAMETER          IE INVERT ELEVATION (IN FEET)</p>	<p>In INCH          JB JUNCTION BOX          kw KILOWATT          LB POUND          LS LANDSCAPE IRRIGATION          Lt LEFT          Max MAXIMUM          MBV MOTORIZED BALL VALVE          MH MANHOLE          Min MINIMUM          N NORTH          (N) NEW          NB NORTHBOUND          NIC NOT IN CONTRACT          NO NUMBER          Nom. NOMINAL          OC ON CENTER          OD OUTSIDE DIAMETER          OG ORIGINAL GROUND          P PITCH          PCC PORTLAND CEMENT CONCRETE          Ph PHASE          PRV PRESSURE REDUCING VALVE          PSI POUNDS PER SQUARE INCH          PVC POLYVINYL CHLORIDE          R RADIUS          RCP REINFORCED CONCRETE PIPE          Req REQUIRED          rpm REVOLUTIONS PER MINUTE          RPBP REDUCED PRESSURE BACKFLOW PREVENTER          RPU RECYCLE PROCESS UNIT          Rt RIGHT          R/W RIGHT-OF-WAY          S SLOPE          SB SOUTHBOUND          Sch SCHEDULE          SD STORM DRAIN          SP SEWAGE PIPE          Sq SQUARE          SS STAINLESS STEEL          Sta STATION          Std STANDARD          TBM TEMPORARY BENCH MARK          TOC TOP OF CONCRETE          Tot TOTAL          Typ TYPICAL          VAC VOLTS AC          VCP VITRIFIED CLAY PIPE          W WATER          W/O WITHOUT          WP WATER PIPE          WSP WELDED STEEL PIPE</p>
--	--

## LEGEND

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

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		97	106
			11-13-13		
REGISTERED CIVIL ENGINEER			DATE		
3-24-14					
PLANS APPROVAL DATE					
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Reviewed by:

Approval date: 10-16-13

## GENERAL WORK NOTES

Verify all controlling field dimensions and conditions before ordering or fabricating any materials.

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

## 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

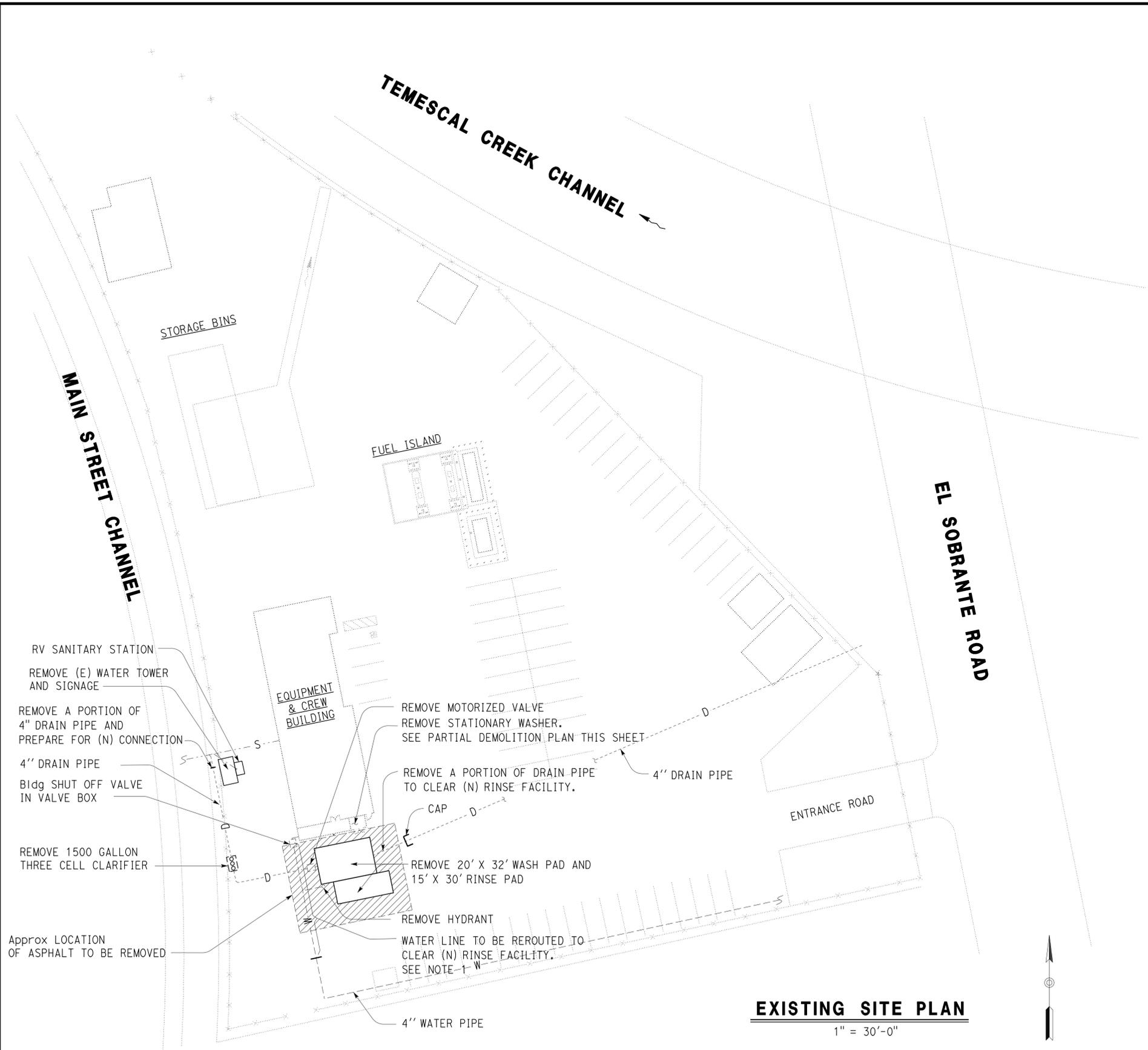
	DESIGN BY C Faria CHECKED R E Schmitz DETAILS BY C Faria CHECKED R E Schmitz QUANTITIES BY C Faria CHECKED R E Schmitz	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES <b>ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN</b>	BRIDGE No. 56M5730 POST MILE	<b>CORONA MAINTENANCE STATION</b>	SHEET <b>SS-0</b> OF
TAEWW Imperial - CCSC Rev. 01/13	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3616 CONTRACT No.: 0R9700 PROJECT NUMBER & PHASE: 08120002241	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		98	106
<i>Jerry R. Marcotte</i> REGISTERED CIVIL ENGINEER			11-13-13 DATE	REGISTERED PROFESSIONAL ENGINEER <b>JERRY MARCOTTE</b> No. C36844 Exp. 06-30-14 CIVIL STATE OF CALIFORNIA	
3-24-14 PLANS APPROVAL DATE					
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**CALIFORNIA STATE FIRE MARSHAL APPROVED**

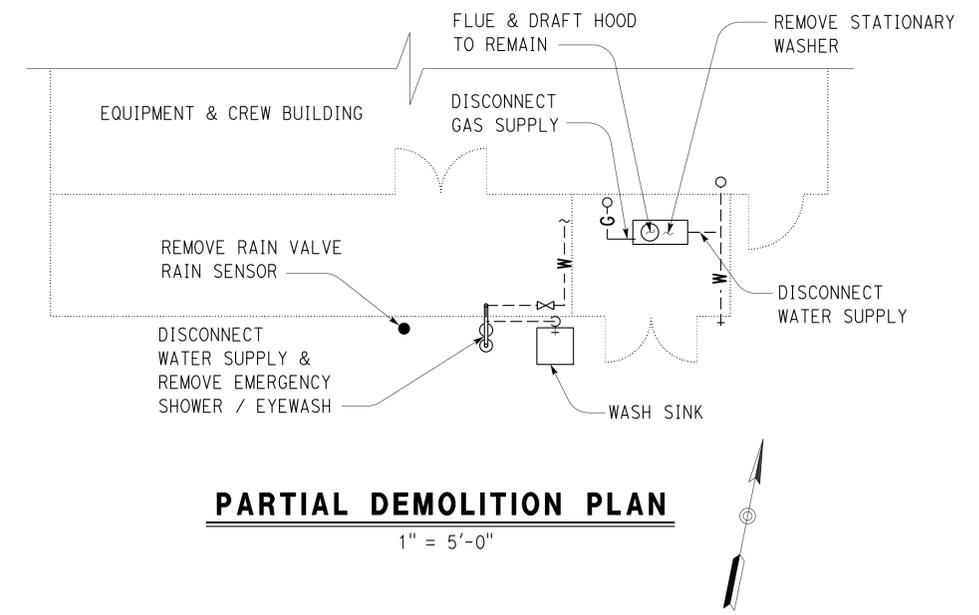
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Reviewed by: *Aaron Greer*  
 Approval date: 10-16-13



NOTE:

1. Provide a temporary 2" water line from the (E) 4" water line to the (E) 1/2" building water line upstream of the building shut off valve. Route the temporary line to the west of the construction site. Temporary line to remain in service until the (N) rerouted 3" water line is flushed, cleaned, and put into service.



TAEWW Imperial - CCSC Rev. 01/13 DESIGN SUPERVISOR: <i>Paul Schreff</i> DESIGN ENGINEER: <i>Jerry R. Marcotte</i>	DESIGN BY: C Faria	CHECKED: R E Schmitz	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 56M5730	CORONA MAINTENANCE STATION VEHICLE RINSE FACILITY	EXISTING SITE PLAN	SHEET SS-1 OF
	DETAILS BY: C Faria	CHECKED: R E Schmitz			POST MILE			
	QUANTITIES BY: C Faria	CHECKED: R E Schmitz			UNIT: 3616 CONTRACT No.: 0R9700 PROJECT NUMBER & PHASE: 08120002241	DISREGARD PRINTS BEARING EARLIER REVISION DATES	3/17/13 7/12/13 8/23/13 11/13/13	

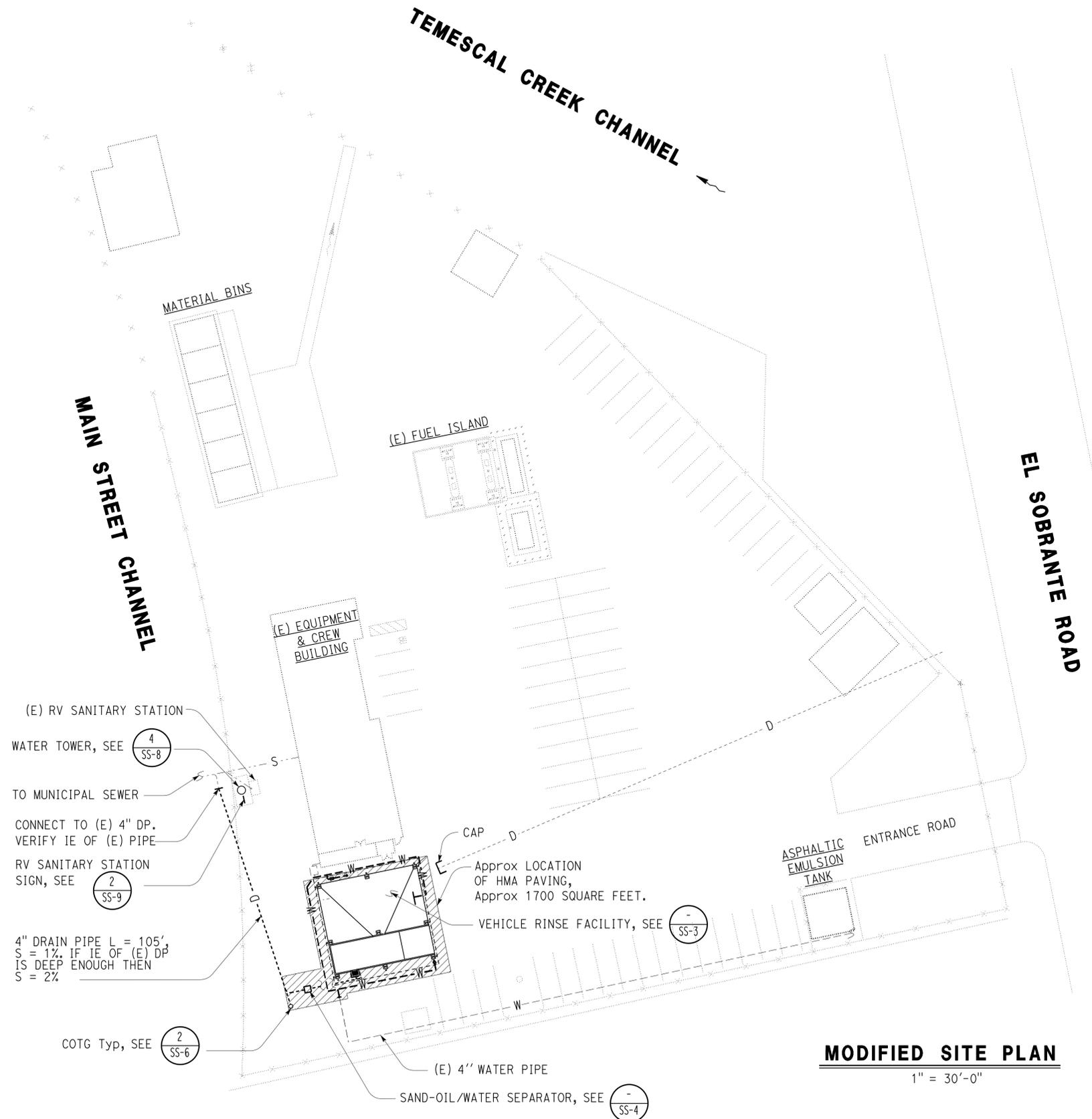
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Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		99	106
<i>Jerry Marcotte</i> REGISTERED CIVIL ENGINEER			11-13-13 DATE	REGISTERED PROFESSIONAL ENGINEER JERRY MARCOTTE No. C36844 Exp. 06-30-14 CIVIL STATE OF CALIFORNIA	
3-24-14 PLANS APPROVAL DATE					
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**CALIFORNIA STATE FIRE MARSHAL APPROVED**

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Reviewed by: *Aaron Greer*  
 Approval date: 10-16-13



**MODIFIED SITE PLAN**  
 1" = 30'-0"

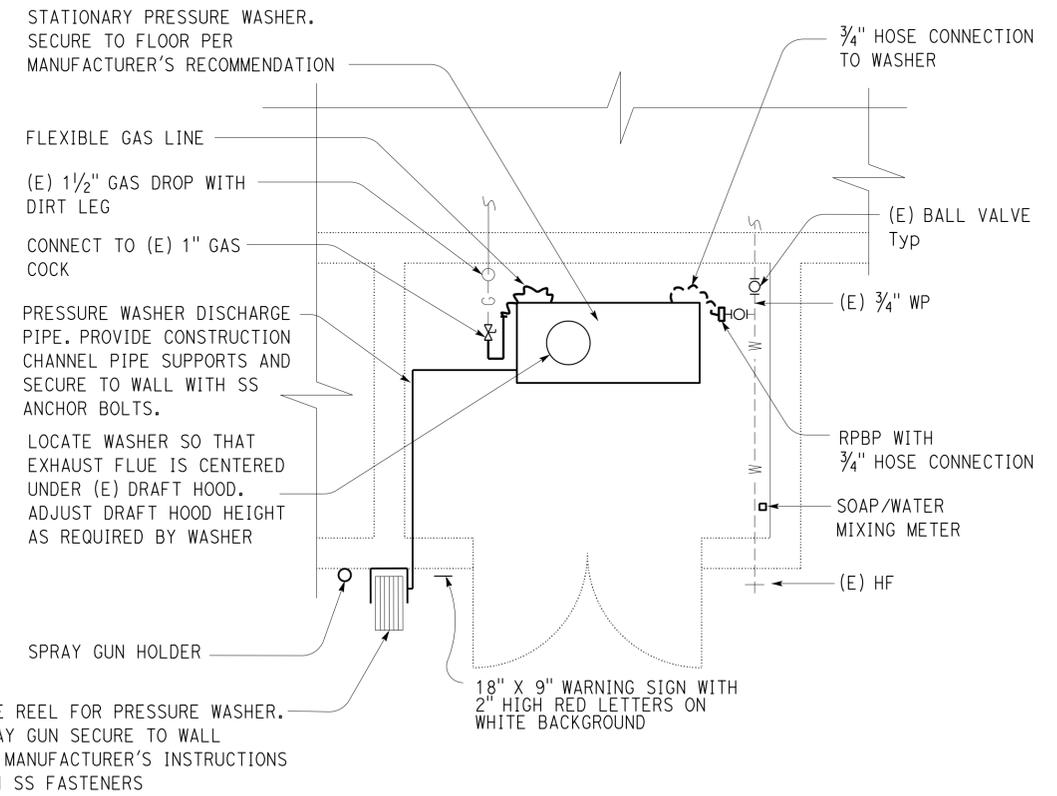
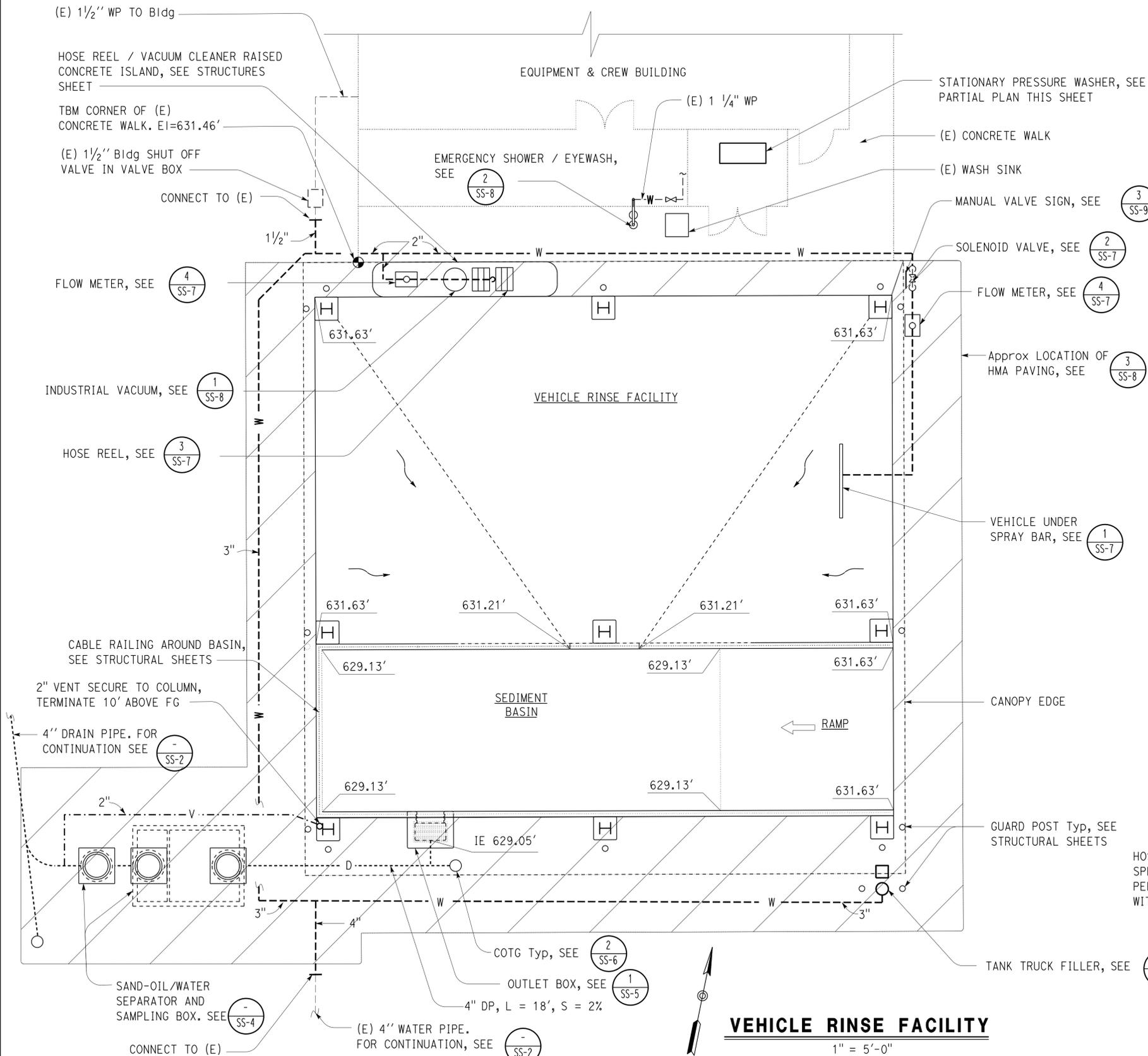
DESIGN BY C Faria CHECKED R E Schmitz DETAILS BY C Faria CHECKED R E Schmitz QUANTITIES BY C Faria CHECKED R E Schmitz	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES <b>ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN</b>	BRIDGE No. 56M5730	<b>CORONA MAINTENANCE STATION</b>		SHEET <b>SS-2</b> OF
			POST MILE	VEHICLE RINSE FACILITY		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		UNIT: 3616 CONTRACT No.: 0R9700 PROJECT NUMBER & PHASE: 08120002241	DISREGARD PRINTS BEARING EARLIER REVISION DATES		SHEET OF	P:\dist_08\0812000224_corona_ms\ww\8.FPS&E\Plans\Exp_11_13_2013\ss_2.dgn

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		100	106
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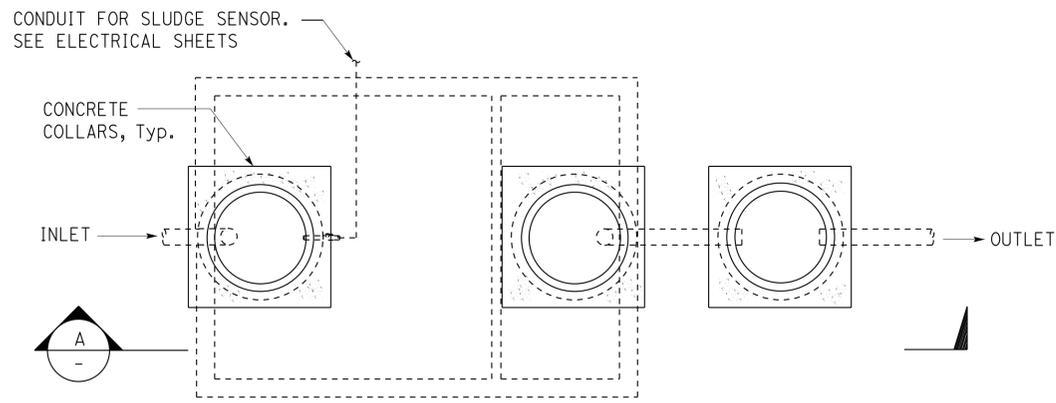


**PARTIAL PLAN**  
 1/2" = 1'-0"

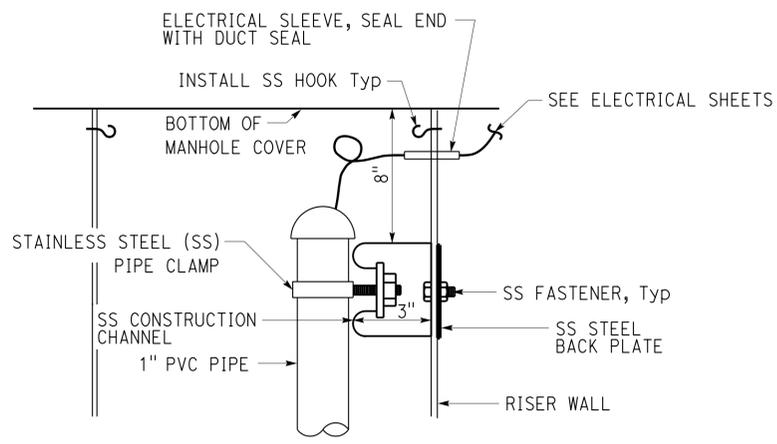
TAEWW Imperial - CCSC Rev. 01/13	DESIGN	BY C Faria	CHECKED R E Schmitz	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	56M5730	<b>CORONA MAINTENANCE STATION</b> VEHICLE RINSE FACILITY	VEHICLE RINSE FACILITY <b>VEHICLE RINSE FACILITY</b>	SHEET <b>SS-3</b> OF
	DETAILS	BY C Faria	CHECKED R E Schmitz			POST MILE				
	QUANTITIES	BY C Faria	CHECKED R E Schmitz			UNIT: 3616 CONTRACT No.: 0R9700 PROJECT NUMBER & PHASE: 08120002241	DISREGARD PRINTS BEARING EARLIER REVISION DATES			
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3			3/7/13 7/12/13 8/23/13 11/13/13			

04-APR-2014 12:38

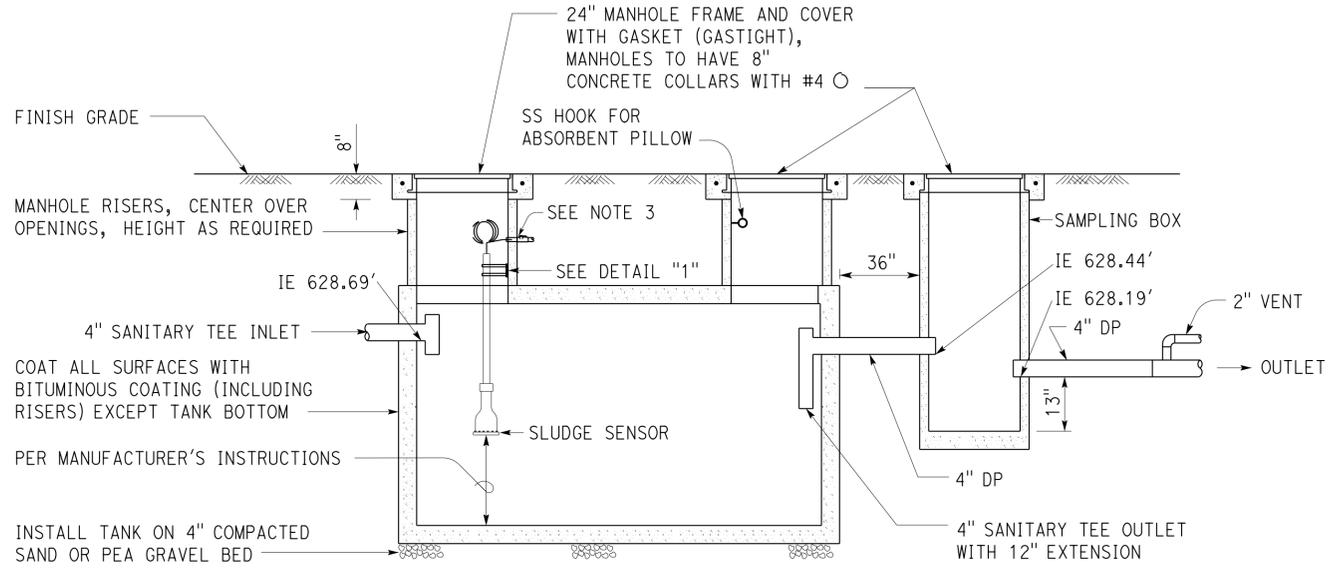
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08	Riv	5730		101	106
<i>Jerry R. Gault</i> REGISTERED CIVIL ENGINEER			11-13-13 DATE	JERRY MARCOTTE No. C36844 Exp. 06-30-14 CIVIL ENGINEER STATE OF CALIFORNIA	
3-24-14 PLANS APPROVAL DATE					
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**PLAN**



**1 SLUDGE SENSOR DETAIL**



**A SECTION**

**1500 GALLON SAND-OIL/WATER SEPARATOR**

NO SCALE

NOTES:

1. Tank dimensions to be per manufacturer.
2. Install one oil absorbent pillow in the second riser of sand-oil/water separator.
3. For electrical, see EE-sheets. Follow tank manufacturer's instructions for riser wall openings. Provide putty to seal conduit openings inside the tank riser.
4. Coordinate location of underground conduits before commencing excavation. Terminate conduits as necessary for proper installation of sand-oil/water separator. Provide putty to seal conduit openings inside the tank riser walls.

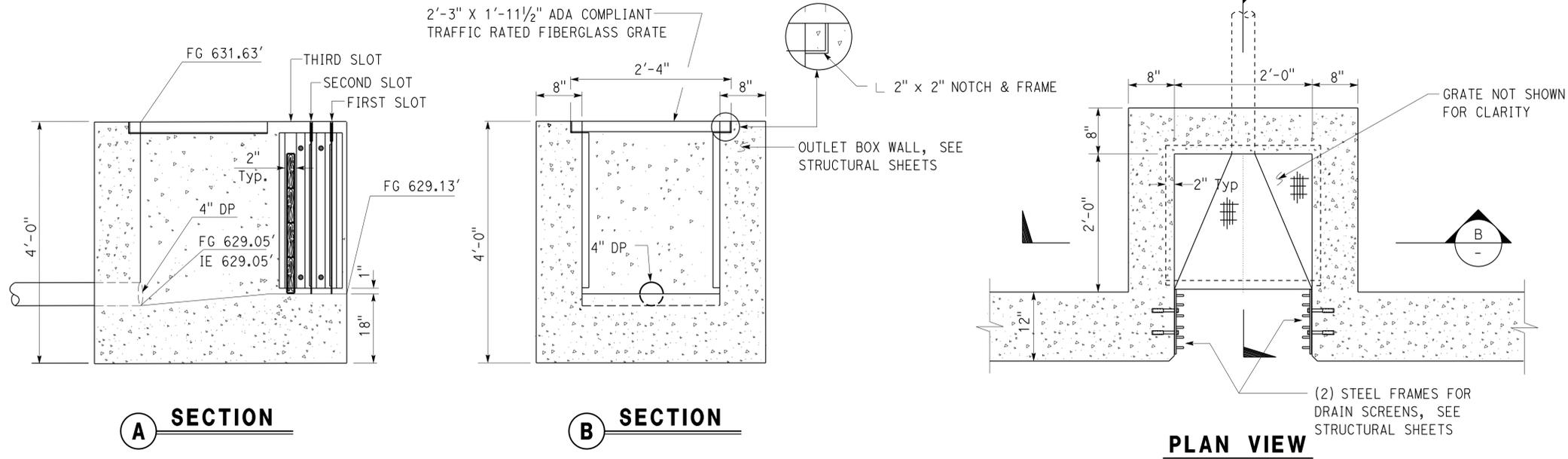
DESIGN BY C Faria	CHECKED R E Schmitz	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	CORONA MAINTENANCE STATION		SHEET SS-4
				56M5730	SAND-OIL/WATER SEPARATOR		
DETAILS BY C Faria	CHECKED R E Schmitz	UNIT: 3616 CONTRACT No.: 0R9700 PROJECT NUMBER & PHASE: 08120002241	DISREGARD PRINTS BEARING EARLIER REVISION DATES	POST MILE	VEHICLE RINSE FACILITY	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
QUANTITIES BY C Faria	CHECKED R E Schmitz					3/1/13 7/12/13 8/23/13 11/13/13	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3	P:\dist_08\0812000224_corona_ms\ww\8.FPS&E\Plans\Exp_11_13_2013\ss_4.dgn				

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		102	106
<i>Jerry Marcotte</i> REGISTERED CIVIL ENGINEER			11-13-13 DATE	REGISTERED PROFESSIONAL ENGINEER <b>JERRY MARCOTTE</b> No. C36844 Exp. 06-30-14 CIVIL STATE OF CALIFORNIA	
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Reviewed by: *Aaron Greer*  
 Approval date: 10-16-13

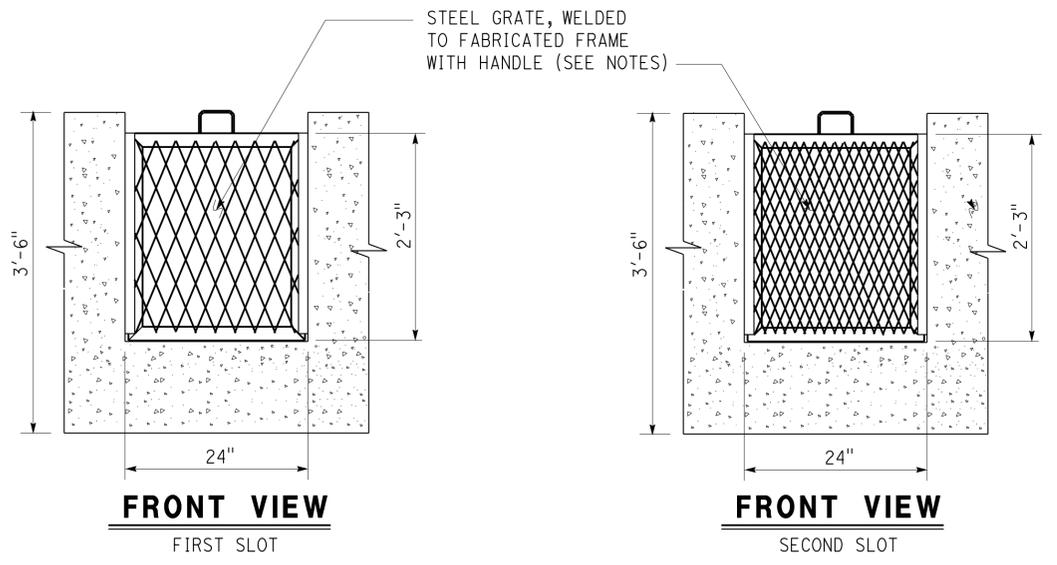


**A SECTION**

**B SECTION**

**PLAN VIEW**

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

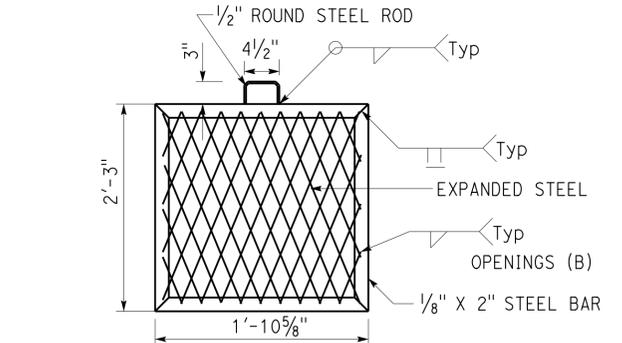
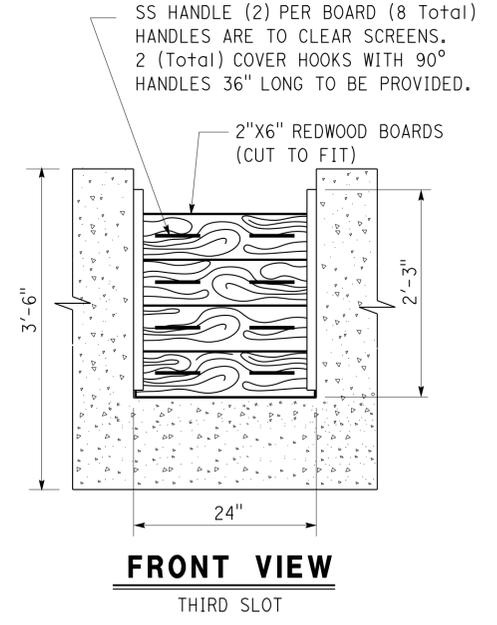


**FRONT VIEW**  
FIRST SLOT

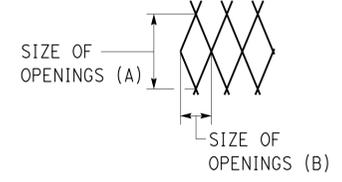
**FRONT VIEW**  
SECOND SLOT

**FRONT VIEW**  
THIRD SLOT

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



**SCREEN FABRICATION DETAIL**  
(Typ) FOR FIRST AND SECOND SCREENS  
(SEE NOTES FOR OPENING SIZES)



Note:  
Filter screen to be hot dip galvanized after fabrication.

- 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"
  - See Screen Fabrication Detail

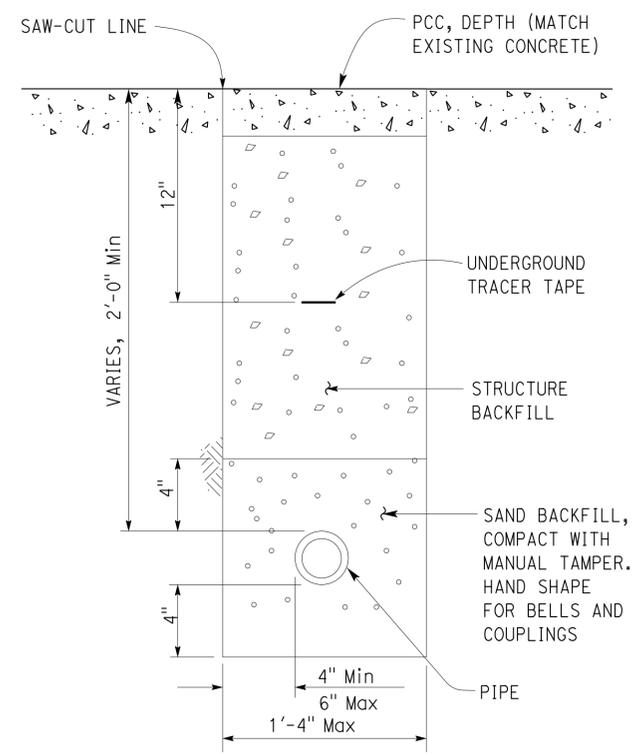
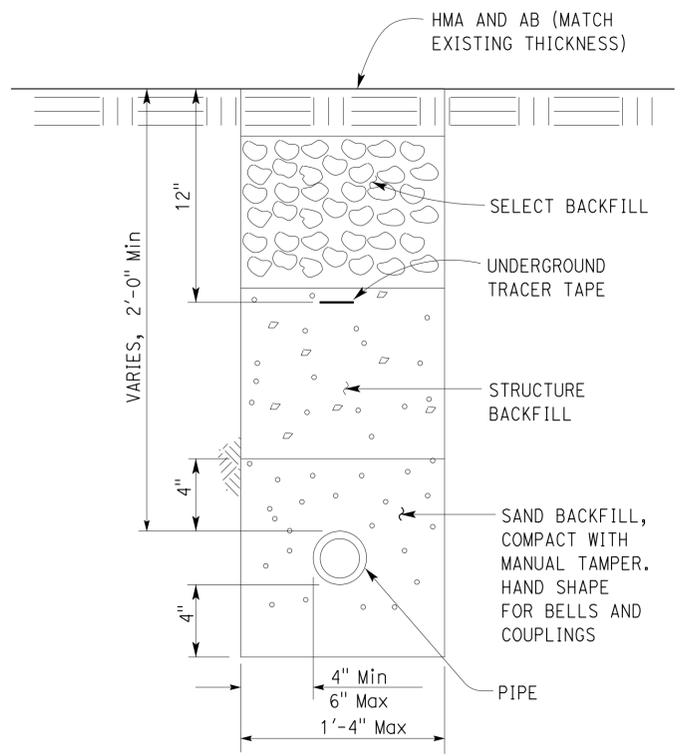
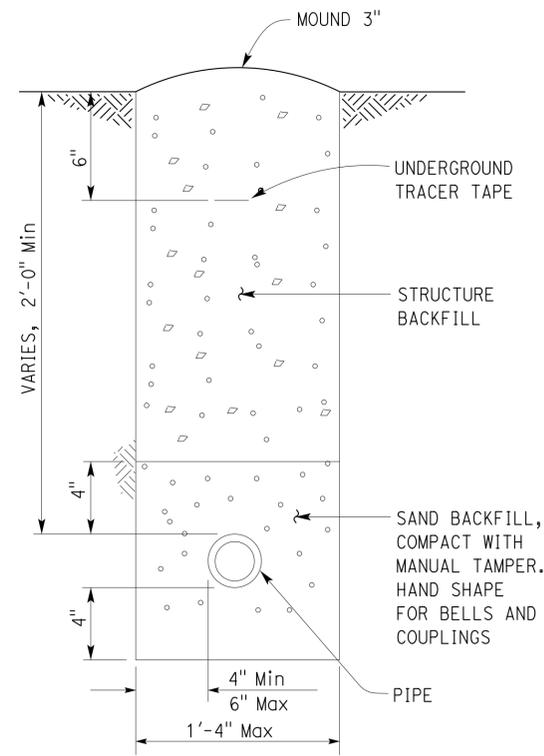
DESIGN BY C Faria	CHECKED R E Schmitz	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 56M5730	CORONA MAINTENANCE STATION		SHEET SS-5
				POST MILE	VEHICLE RINSE FACILITY		
DETAILS BY C Faria	CHECKED R E Schmitz	UNIT: 3616 CONTRACT No.: 0R9700 PROJECT NUMBER & PHASE: 08120002241		DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF
QUANTITIES BY C Faria	CHECKED R E Schmitz	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		3/1/13	7/12/13	8/23/13	

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		103	106
<i>Jerry Marcotte</i> REGISTERED CIVIL ENGINEER			11-13-13 DATE	REGISTERED PROFESSIONAL ENGINEER <b>JERRY MARCOTTE</b> No. C36844 Exp. 06-30-14 CIVIL STATE OF CALIFORNIA	
3-24-14 PLANS APPROVAL DATE					
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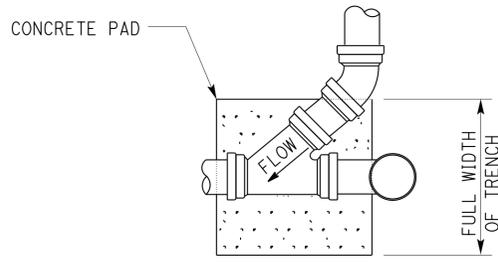
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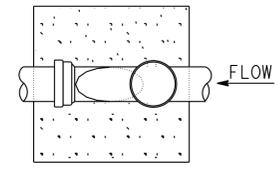
Reviewed by: *Aaron Greer*  
**AARON GREER**  
 Approval date: 10-16-13



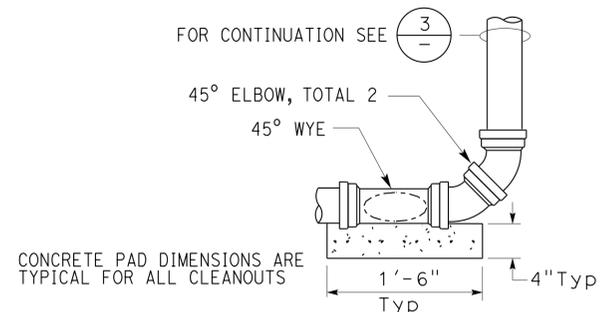
**1 UNDERGROUND PIPE**  
NO SCALE



**PLAN**

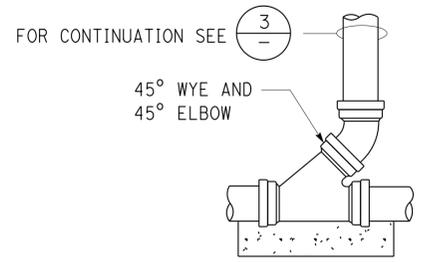


**PLAN**



**ELEVATION**

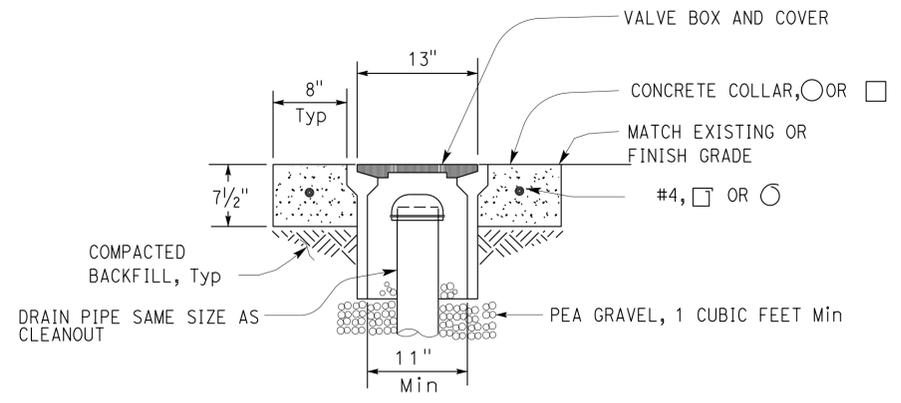
**CLEANOUT (AT BEND)**



**ELEVATION**

**CLEANOUT (STANDARD)**

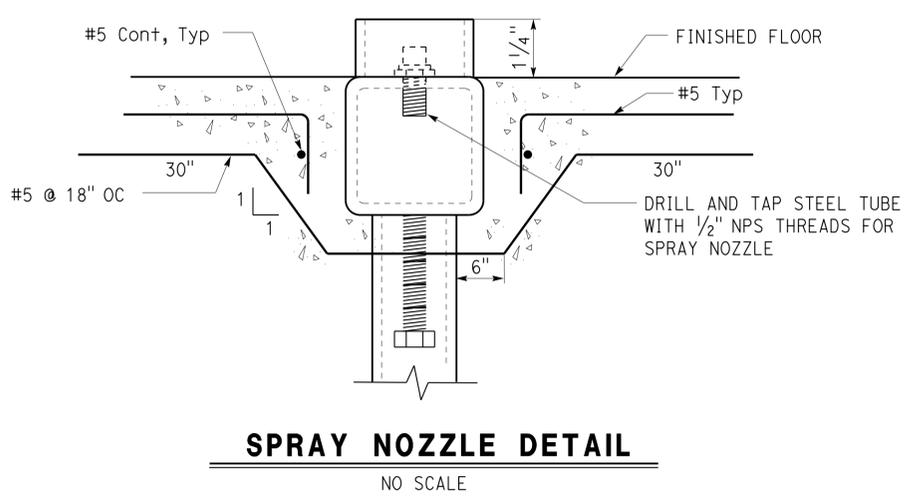
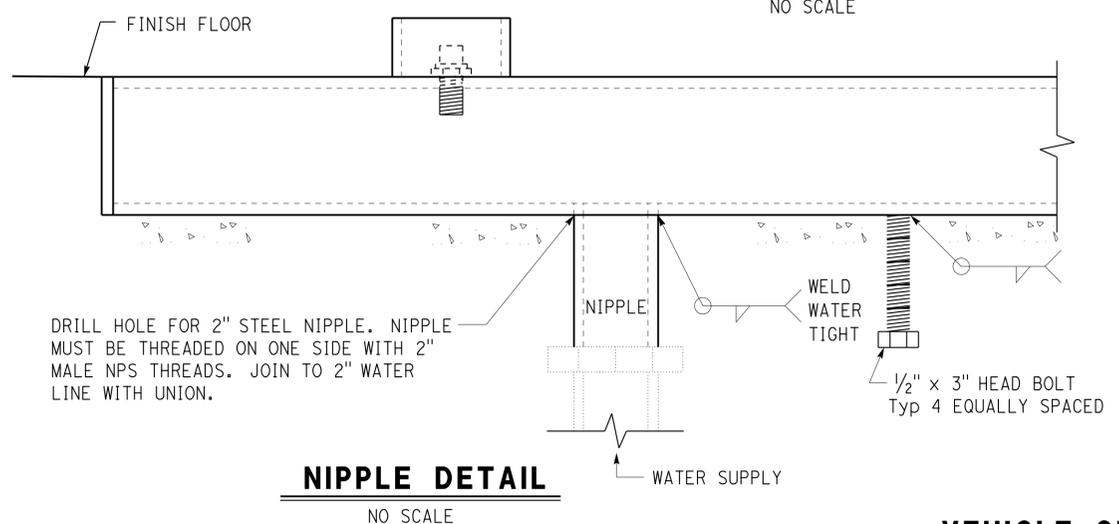
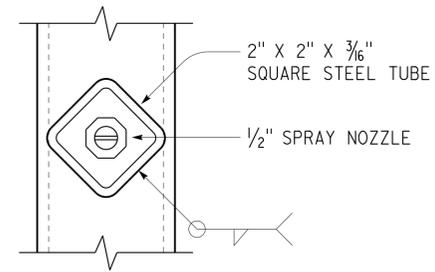
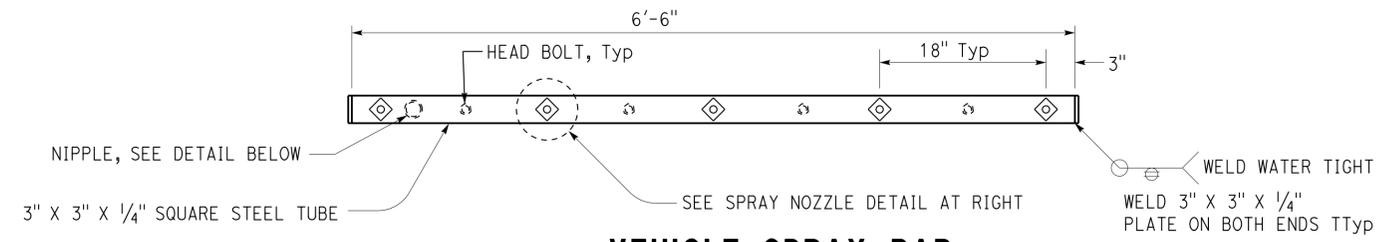
**2 CLEANOUT TO GRADE - GRAVITY**  
NO SCALE



**3 COTG ACCESS BOX**  
NO SCALE

DESIGN	BY	C Faria	CHECKED	R E Schmitz	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	56M5730	<b>CORONA MAINTENANCE STATION</b> DETAILS	SHEET <b>SS-6</b>			
	DETAILS	BY	C Faria	CHECKED			R E Schmitz	POST MILE					
QUANTITIES	BY	C Faria	CHECKED	R E Schmitz	UNIT: 3616	CONTRACT No.: 0R9700	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF			
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0	1	2	3	3/1/13	7/12/13	8/23/13	11/13/13	

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		104	106
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3-24-14 PLANS APPROVAL DATE					
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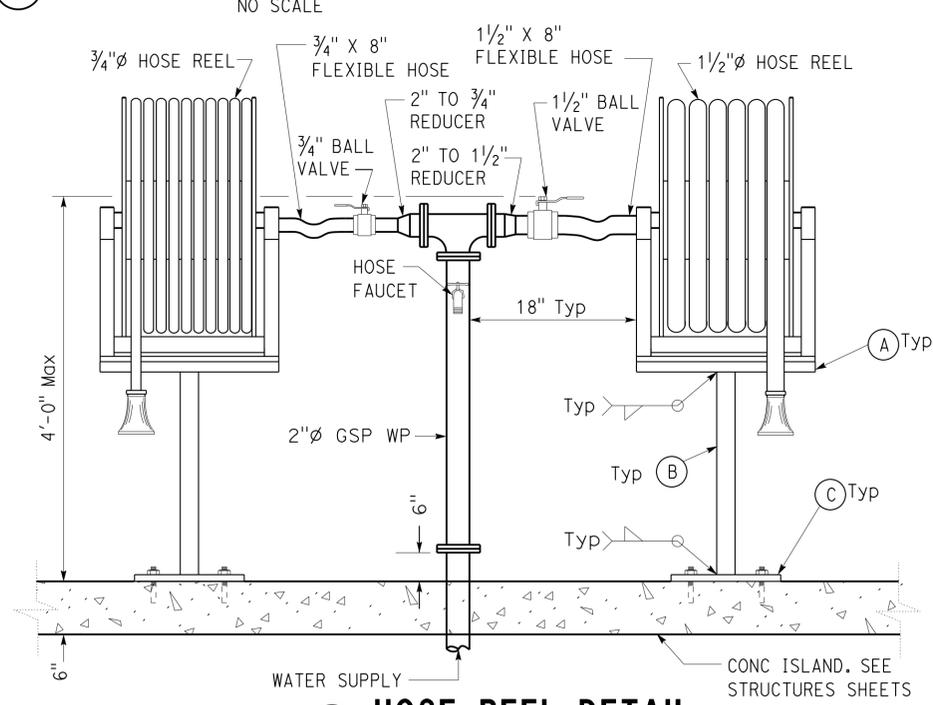
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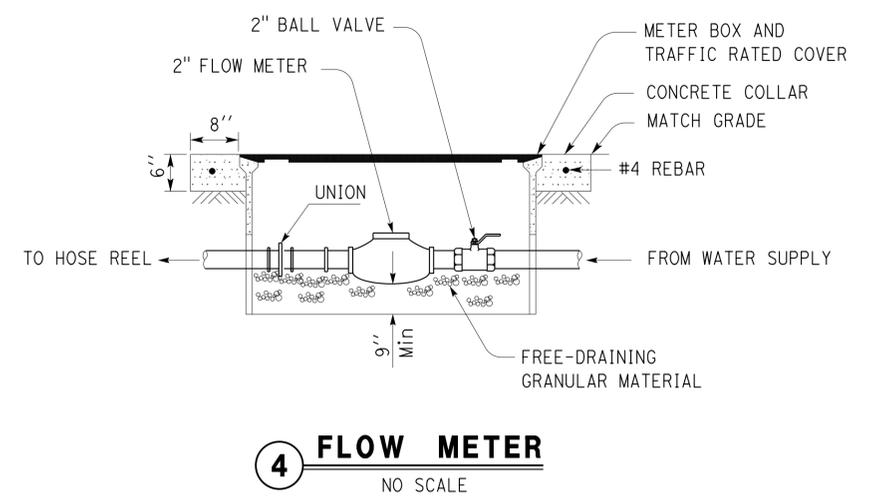
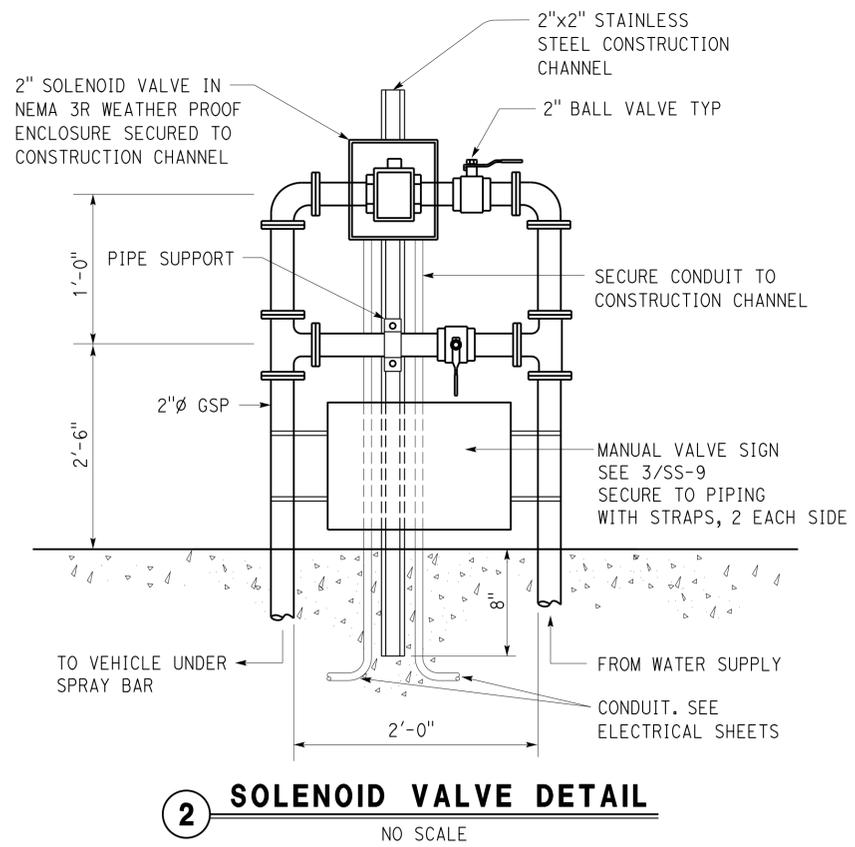
Reviewed by: *Aaron Greer*  
 Approval date: 10-16-13

**1 VEHICLE SPRAY BAR DETAIL**  
NO SCALE

General Note:  
All steel parts must be galvanized.



- FABRICATION NOTES Typ:
- (A) 1/4" Steel plate, size per template from reel manufacturer.
  - (B) 3" Square steel tube.
  - (C) 9"x9"x1/4" steel plate. Secure with 4-3/8" x 3" bolts with washers, paint color to match equipment building.



NOTE:  
Min 9" clearance on all sides

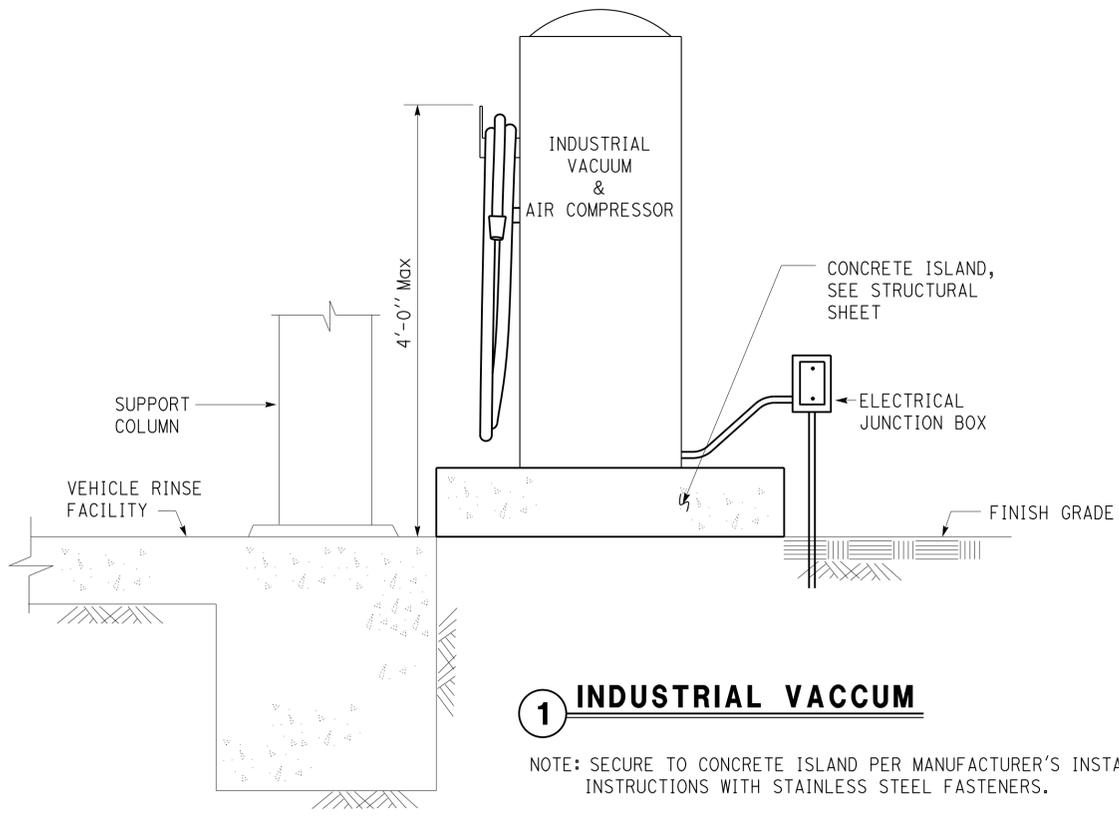
DESIGN BY <b>C Faria</b>	CHECKED <b>R E Schmitz</b>	STATE OF <b>CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES <b>ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN</b>	BRIDGE No. 56M5730	CORONA MAINTENANCE STATION		SHEET <b>SS-7</b>
				POST MILE	VEHICLE RINSE FACILITY		
DETAILS BY <b>C Faria</b>	CHECKED <b>R E Schmitz</b>	UNIT: 3616 CONTRACT No.: 0R9700 PROJECT NUMBER & PHASE: 08120002241		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	
QUANTITIES BY <b>C Faria</b>	CHECKED <b>R E Schmitz</b>	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		3/17/13 7/12/13 8/23/13 11/13/13		SHEET OF	

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	5730		105	106
<i>Jerry R. Marcotte</i> REGISTERED CIVIL ENGINEER			11-13-13 DATE	REGISTERED PROFESSIONAL ENGINEER <b>JERRY MARCOTTE</b> No. C36844 Exp. 06-30-14 CIVIL STATE OF CALIFORNIA	
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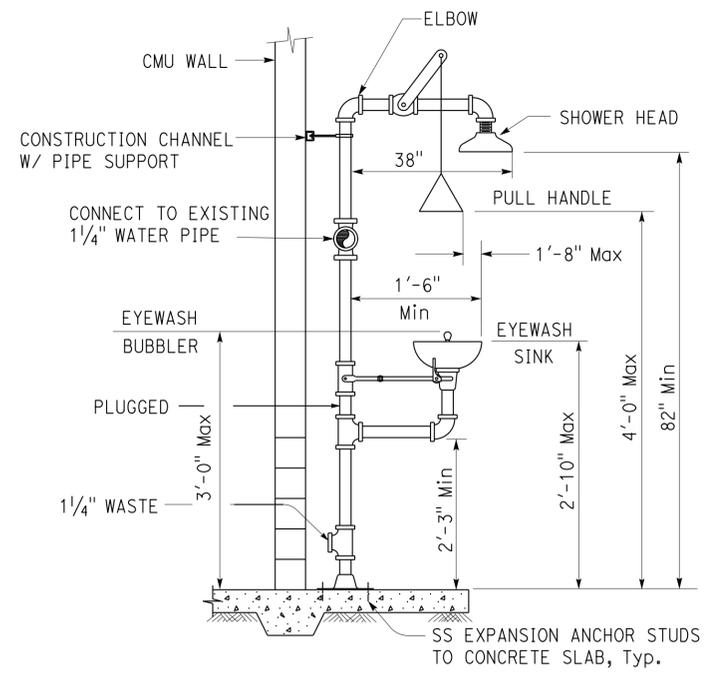
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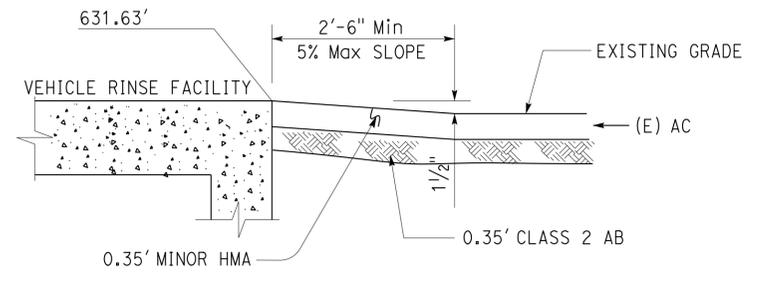


**1 INDUSTRIAL VACCUM**

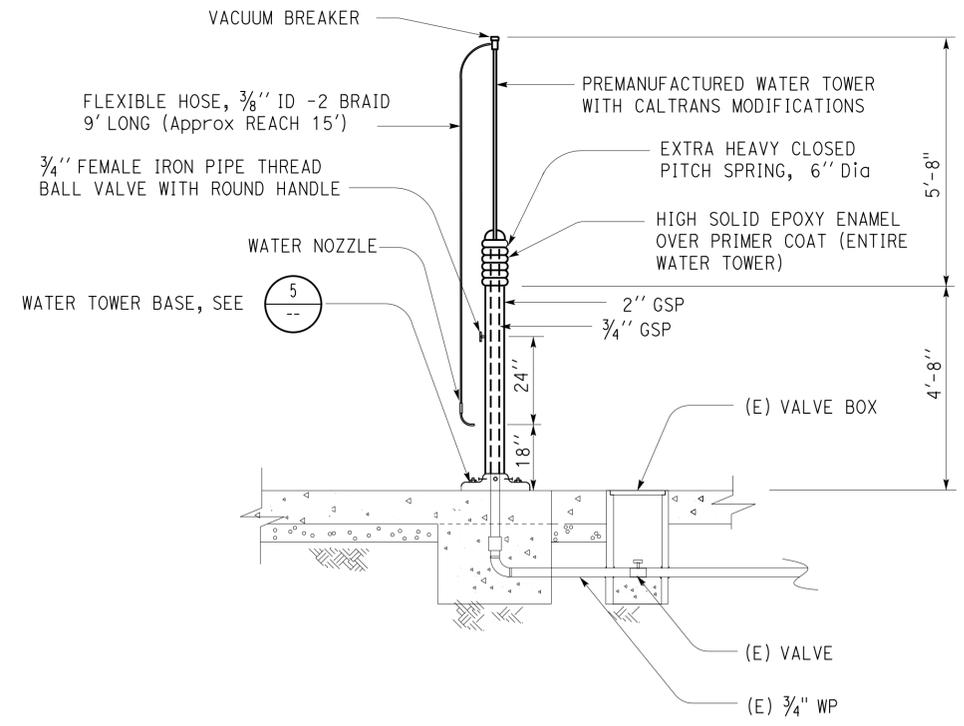
NOTE: SECURE TO CONCRETE ISLAND PER MANUFACTURER'S INSTALLATION INSTRUCTIONS WITH STAINLESS STEEL FASTENERS.



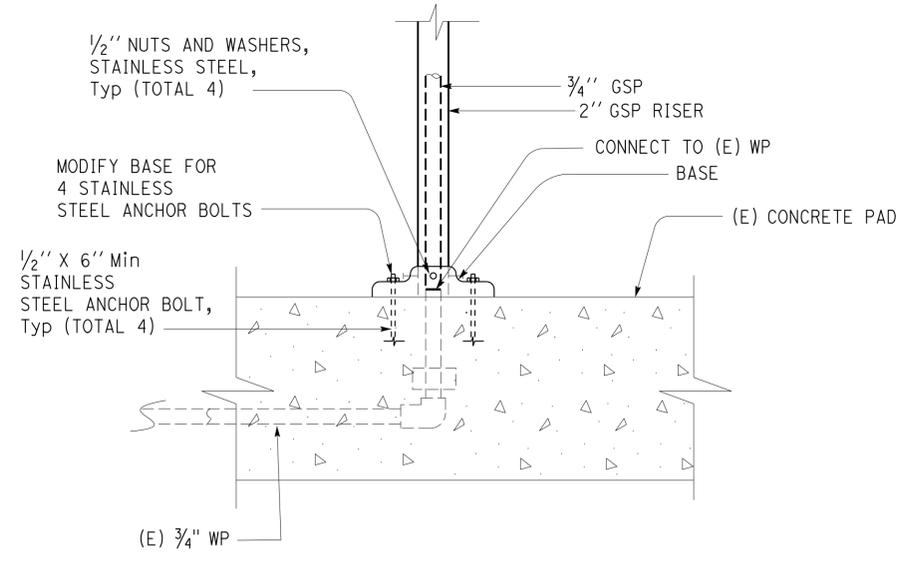
**2 EMERGENCY EYEWASH AND SHOWER DETAIL**



**3 OUTSIDE SLOPE FOR VEHICLE RINSE FACILITY**



**4 WATER TOWER**

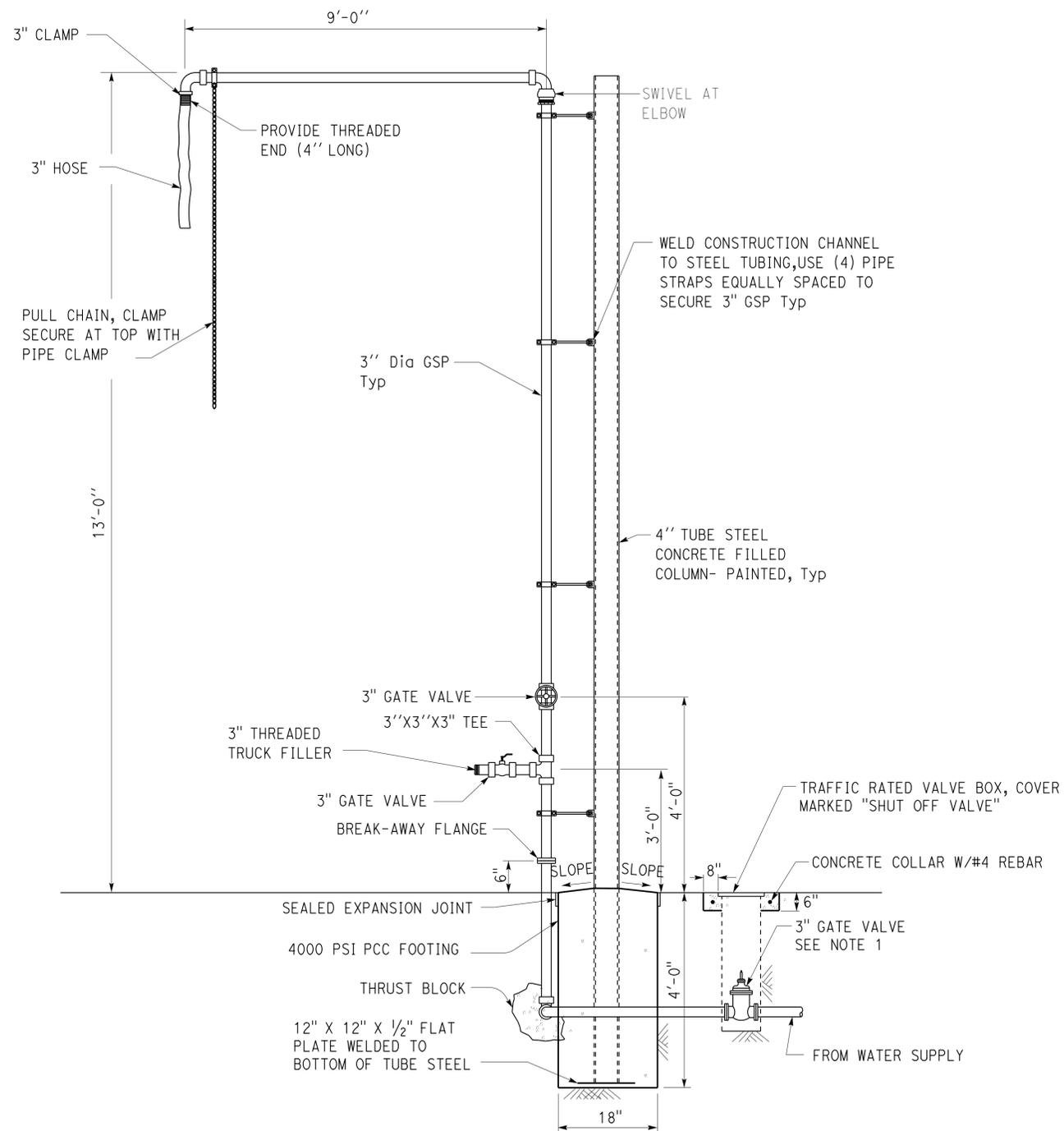


**5 WATER TOWER BASE**

NO SCALE

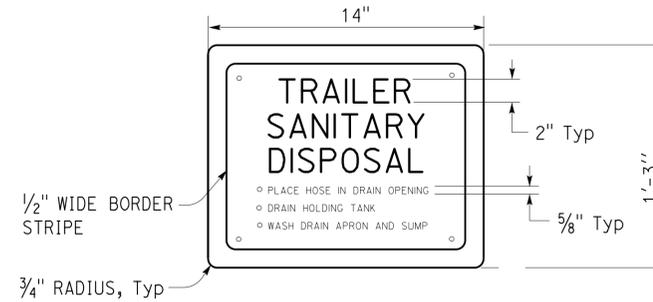
DESIGN BY C Faria CHECKED R E Schmitz	DETAILS BY C Faria CHECKED R E Schmitz	QUANTITIES BY C Faria CHECKED R E Schmitz	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 56M5730	CORONA MAINTENANCE STATION		SHEET 8 OF 8
					POST MILE	VEHICLE RINSE FACILITY		
					REVISION DATES (PRELIMINARY STAGE ONLY) 3/17/13 7/12/13 8/23/13 11/13/13			
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3			UNIT: 3616 CONTRACT No.: 0R9700 PROJECT NUMBER & PHASE: 08120002241	DISREGARD PRINTS BEARING EARLIER REVISION DATES	SHEET OF			

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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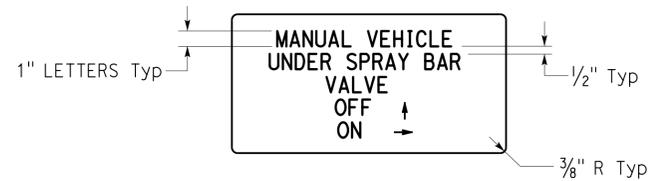
- NOTES:
1. Provide handle for shut-off valve.
  2. Provide guard post protection on both sides.

**1 TANK TRUCK FILLER**  
NO SCALE



**2 RV SANITARY STATION SIGN**  
NO SCALE

- NOTES:
1. Secure to (E) sign post. Bottom 5' above Conc pad.
  2. Red letters on white background



**3 VEHICLE UNDER SPRAY BAR VALVE SIGN**  
NO SCALE

- NOTES:
1. Red letters on white background
  2. Sign to be 9" x 1'-6"

DESIGN BY C Faria	CHECKED R E Schmitz	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 56M5730	CORONA MAINTENANCE STATION		SHEET SS-9
				POST MILE	VEHICLE RINSE FACILITY		
DETAILS BY C Faria	CHECKED R E Schmitz	UNIT: 3616 CONTRACT No.: 0R9700		REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF	
QUANTITIES BY C Faria	CHECKED R E Schmitz	PROJECT NUMBER & PHASE: 08120002241		3/1/13 7/12/13 8/23/13 11/13/13			
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		DISREGARD PRINTS BEARING EARLIER REVISION DATES		P:\dist_08\0812000224_corona_ms\ww\8.FPS&E\Plans\Exp_11_13_2013\ss_9.dgn			