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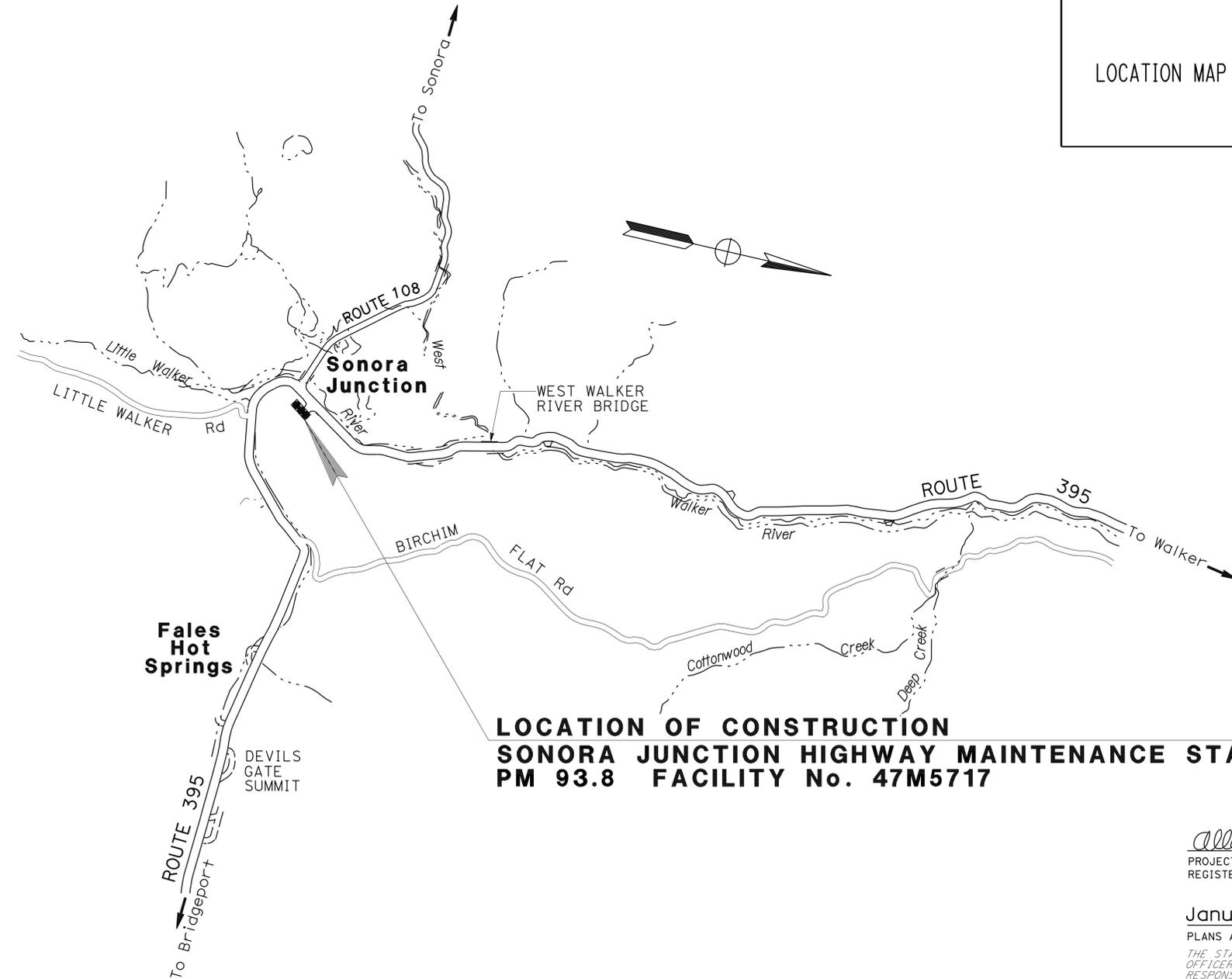
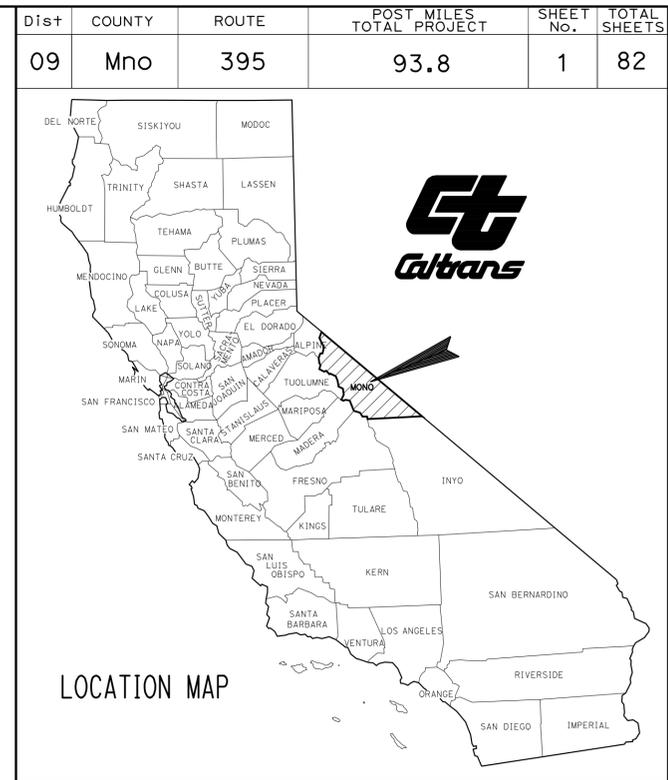
SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
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THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ADJACENT TO
STATE HIGHWAY
IN MONO COUNTY
NEAR SONORA JUNCTION
AT THE SONORA JUNCTION
HIGHWAY MAINTENANCE STATION

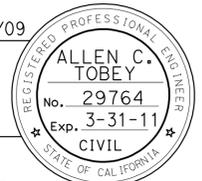
TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



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: *Bill Robertson*
BILL ROBERTSON
Approval date: 09/02/09

Allen Tobey 08/18/09
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

January 11, 2010
PLANS APPROVAL DATE



THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

CONTRACT No. **09-315204**

CU 09603 EA 315201

PROJECT MANAGER
BRIAN MCELWAIN
DESIGN ENGINEER
JOHN FOX

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

NO SCALE



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR
JOHN FOX

DESIGNED BY
A. TOBEY

CHECKED BY
B. LARSON

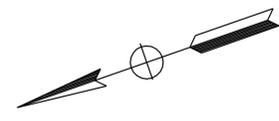
REVISOR
MA

DATE
 08-18-09

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Mno	395	93.8	2	82

Allen Tobey 08-18-09
 REGISTERED CIVIL ENGINEER DATE
 1-11-10
 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
ALLEN C. TOBEY
 No. 29764
 Exp. 03-31-11
 CIVIL
STATE OF CALIFORNIA



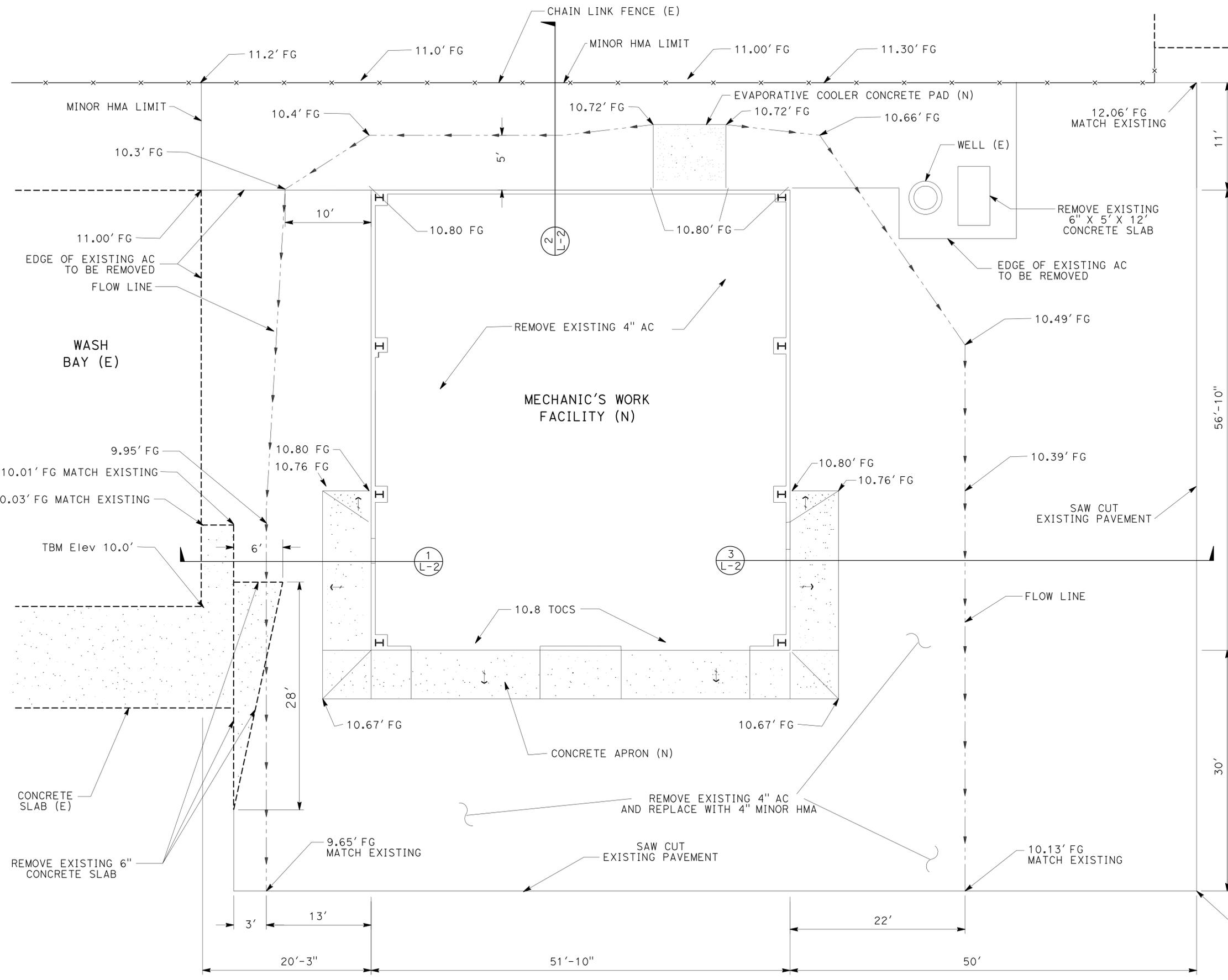
NOTE:
 1. SURPLUS MATERIAL FROM THE EXCAVATION THAT DOES NOT CONTAIN CONCRETE, STEEL, ASPHALT, LARGE ROCKS, PLASTIC, OR ORGANIC MATERIAL MAY BE DISPOSED OF ON SITE AS DIRECTED BY THE ENGINEER. ALL OTHER SURPLUS MATERIAL SHALL BE REMOVED AND DISPOSED OF OUTSIDE OF THE RIGHT OF WAY.

LEGEND:
 (N) PAYMENT FOR THIS ITEM IS INCLUDED IN BUILDING WORK.
 (E) EXISTING

DETAIL BUBBLE

 3 ← DETAIL NUMBER
 L-2 ← SHEET NUMBER

ROADWAY EXCAVATION (CY)	
REMOVE AC	133
NATIVE SOIL EXCAVATION	237
TOTAL	370



HMA GRADING PLAN

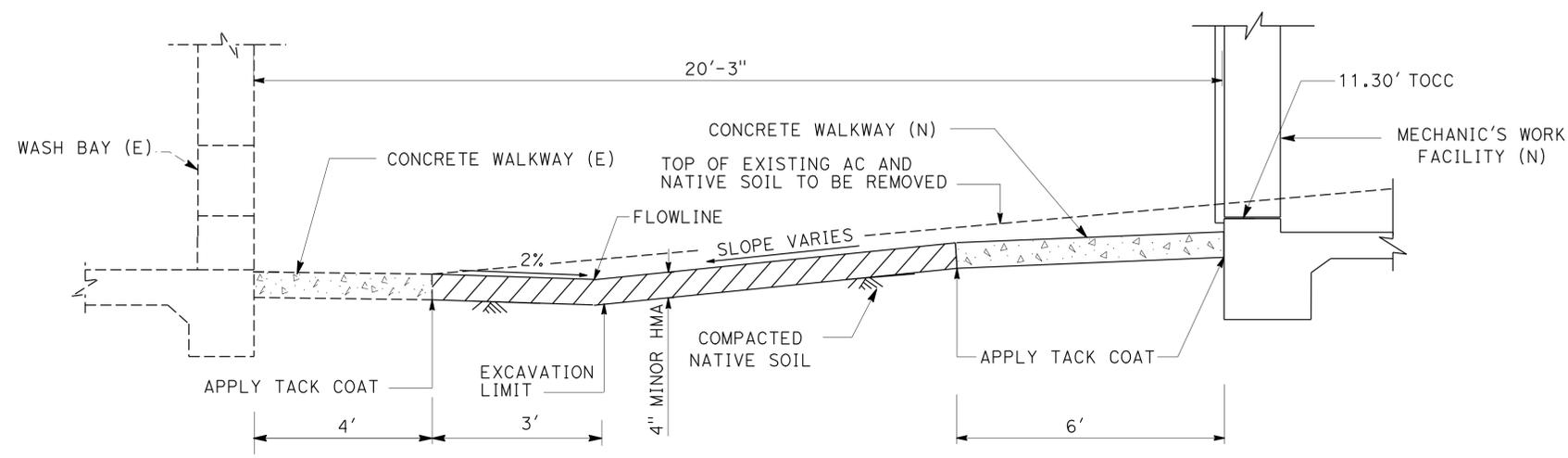
LAYOUT
 NO SCALE **L-1**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Mno	395	93.8	3	82

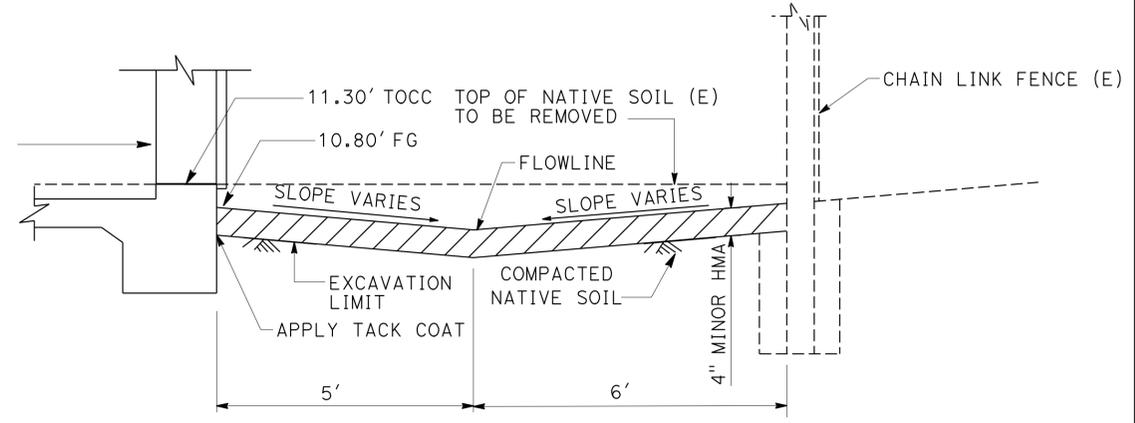
Allen Tobey 08-18-09
 REGISTERED CIVIL ENGINEER DATE
 1-11-10
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 ALLEN C. TOBEY
 No. 29764
 Exp. 03-31-11
 CIVIL
 STATE OF CALIFORNIA

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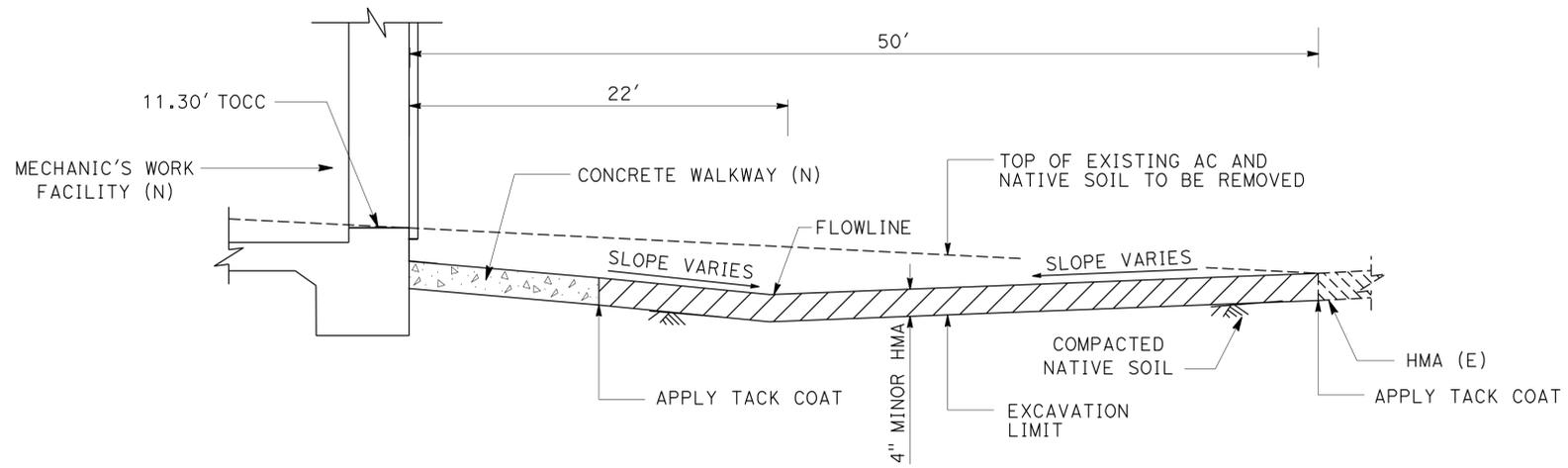
1 HMA PAVEMENT DETAIL



2 HMA PAVEMENT DETAIL

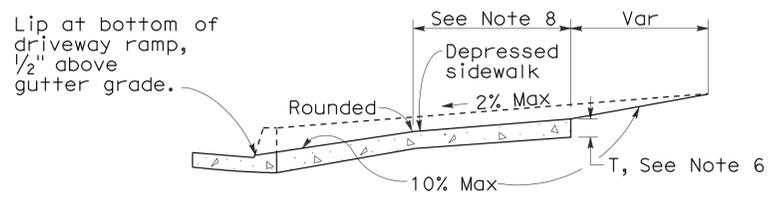
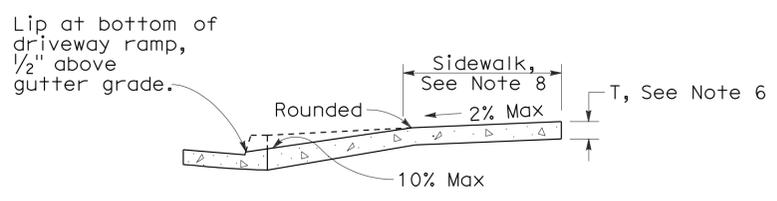
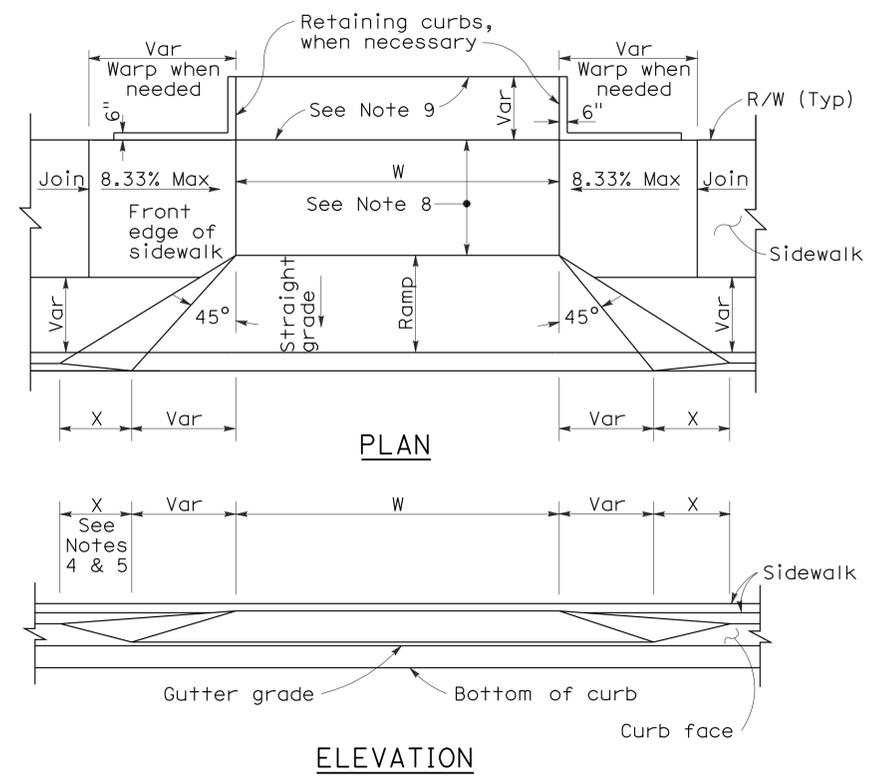
SUMMARY OF QUANTITIES

TEMPORARY CHECK DAM	REMOVE CONCRETE	ROADWAY EXCAVATION	MINOR HOT MIX ASPHALT
LF	CY	CY	TON
40	3	370	240



3 HMA PAVEMENT DETAIL

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Maintenance Engineering
 JOHN FOX
 FUNCTIONAL SUPERVISOR
 A. TOBEY
 REVISOR
 MA
 08-18-09
 DATE REVISOR



SECTIONS

CURB QUANTITIES

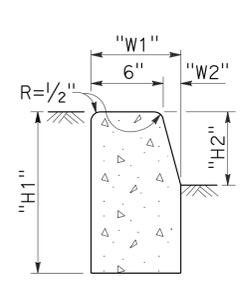
TYPE	CUBIC YARDS PER LINEAR FOOT
A1-6	0.02585
A1-8	0.03084
A2-6	0.05903
A2-8	0.06379
A3-6	0.01036
A3-8	0.01435
B1-4	0.02185
B1-6	0.02930
B2-4	0.05515
B2-6	0.06171
B3-4	0.00641
B3-6	0.01074
B4	0.05709
D-4	0.04083
D-6	0.06804
E	0.06661

TABLE A

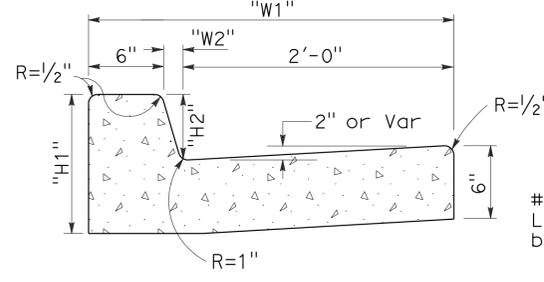
CURB TYPE	DIMENSIONS			
	"H1"	"H2"	"W1"	"W2"
A1-6	1'-2"	6"	7 1/2"	1 1/2"
A1-8	1'-4"	8"	8"	2"
A2-6	1'-0"	6"	2'-7 1/2"	1 1/2"
A2-8	1'-2"	8"	2'-8"	2"
A3-6	6"	5"	7 1/4"	1 1/4"
A3-8	8"	7"	7 3/4"	1 3/4"
B1-4	1'-0"	4"	7 1/2"	2 1/2"
B1-6	1'-2"	6"	9"	4"
B2-4	10"	4"	2'-7 1/2"	2 1/2"
B2-6	1'-0"	6"	2'-9"	4"
B3-4	4"	3"	7"	2"
B3-6	6"	5"	8 1/2"	3 1/2"
D-4	10"	4"	1'-6"	1'-1"
D-6	1'-0"	6"	2'-2"	1'-8"

To accompany plans dated 1-11-10

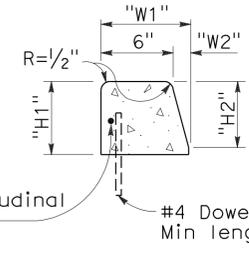
DRIVEWAYS



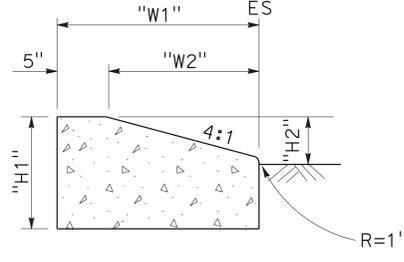
TYPE A1 CURBS
See Table A



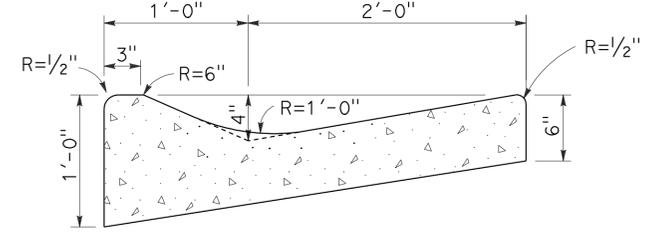
TYPE A2 CURBS
See Table A



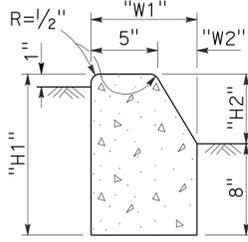
TYPE A3 CURBS
Superimposed on existing pavement
See Table A



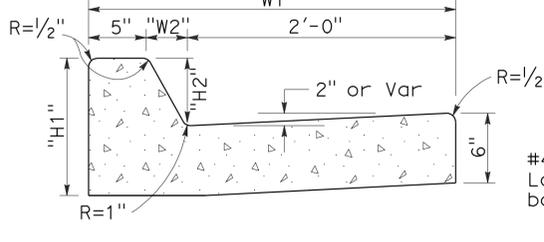
TYPE D CURBS
See Table A



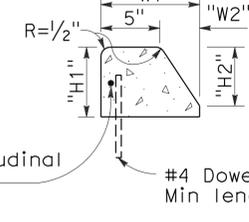
TYPE E CURB



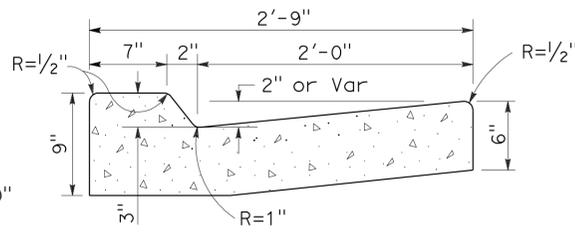
TYPE B1 CURBS
See Table A



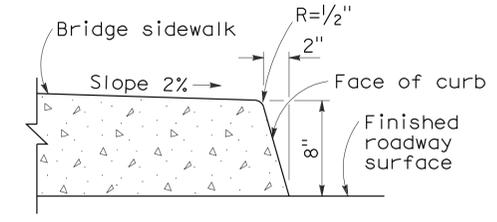
TYPE B2 CURBS
See Table A



TYPE B3 CURBS
Superimposed on existing pavement
See Table A



TYPE B4 CURBS



TYPE H CURB
On Bridges

NOTES:

- Case A driveway section typically applies.
- Use Case B driveway section when ramp slopes would exceed 10% in Case A.
- Use Case B driveway section when sidewalk cross slope would exceed 2% in Case A.
- X=3'-0" except for curb heights over 10" where 4:1 slopes shall be used on curb slope.
- X is a variable when sidewalk is located where wheelchairs may traverse the surface. Slopes shall not exceed 8.33%.
- Sidewalk and ramp thickness "T" at driveway shall be 4" for residential and 6" for commercial.
- Difference in slope of the driveway ramp and the slope of a line between the gutter and a point on the roadway 5'-0" from gutter line shall not exceed 15%. Reduce driveway ramp slope, not gutter slope, where required.
- Minimum width of clear passageway for sidewalk shall be 4'-0".
- Retaining curbs and acquisition of construction easement may be necessary for narrow sidewalks or curb heights in excess of 6".
- Across the pedestrian route at curb ramp locations, the gutter pan slope shall not exceed 1" of depth for each 2'-0" of width.

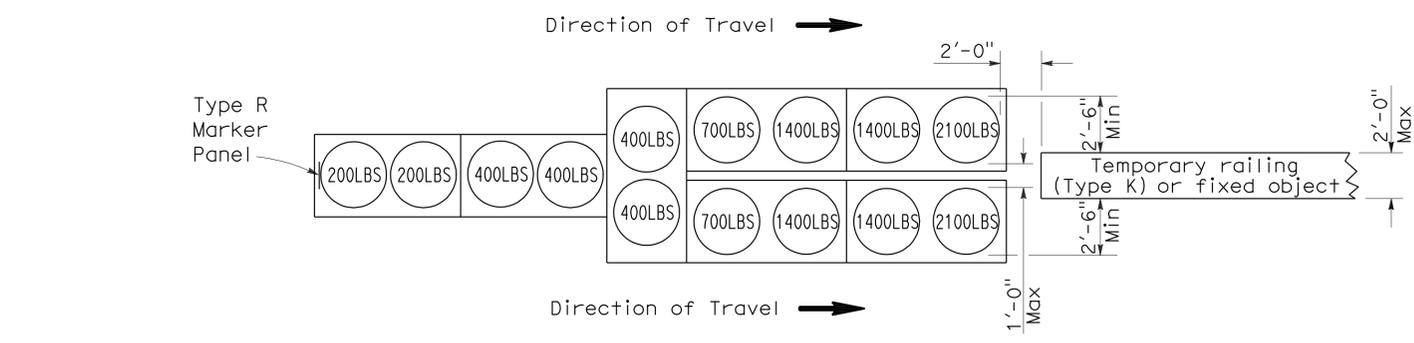
CURBS

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CURBS AND DRIVEWAYS

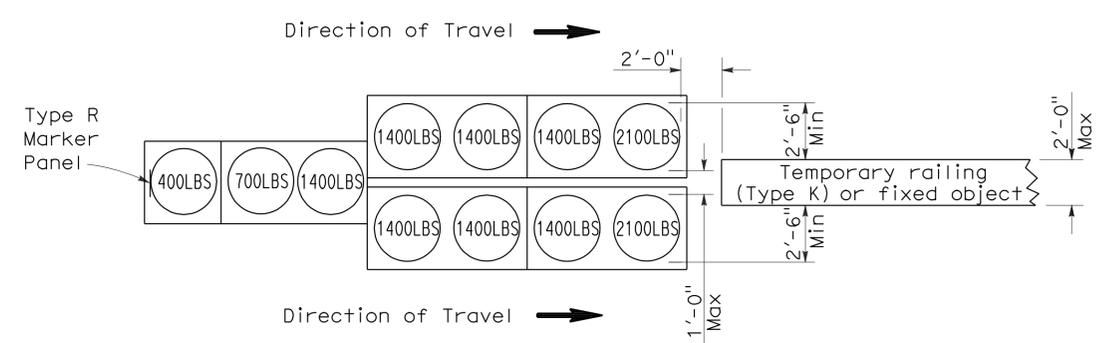
NO SCALE

To accompany plans dated 1-11-10



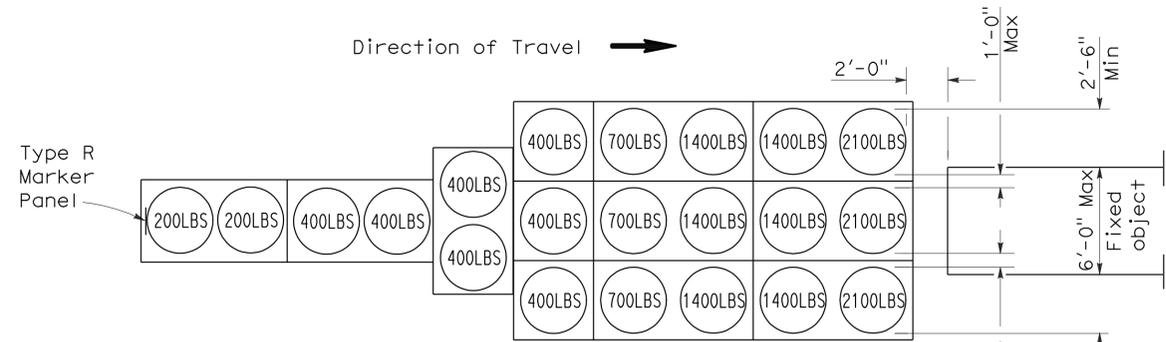
ARRAY 'TU14'

Approach speed 45 mph or more



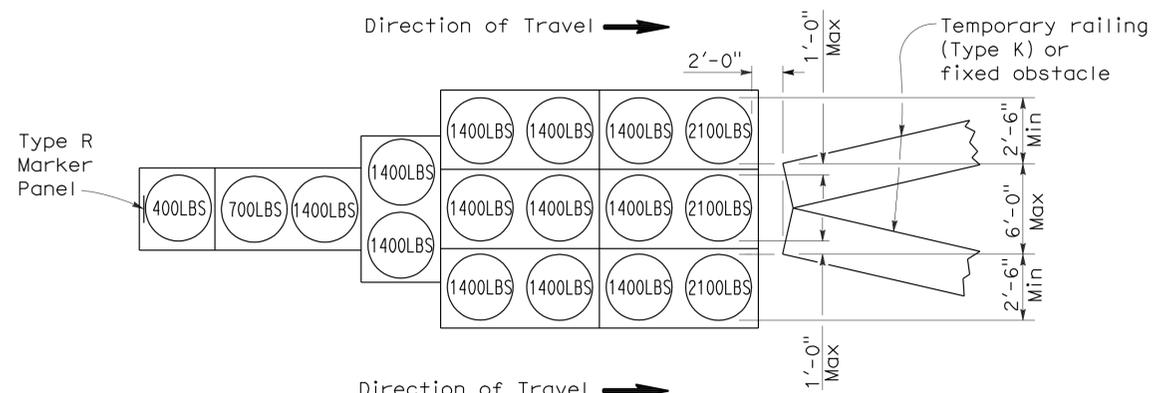
ARRAY 'TU11'

Approach speed less than 45 mph



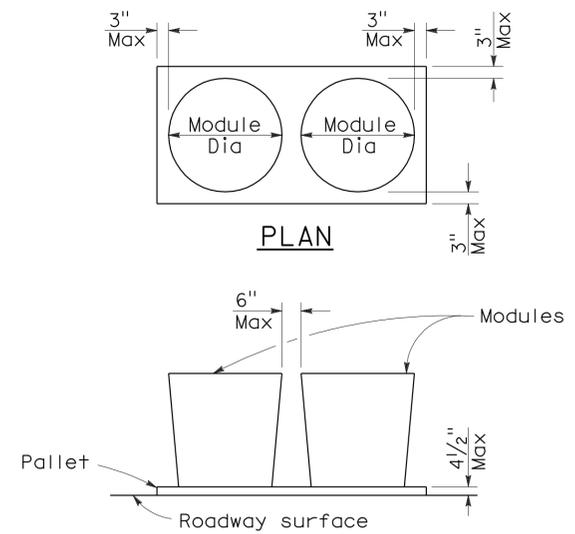
ARRAY 'TU21'

Approach speed 45 mph or more



ARRAY 'TU17'

Approach speed less than 45 mph



CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. Temporary crash cushion arrays shall not encroach on the traveled way.
4. Place the top of Type R marker panel 1" below the module lid.
5. Refer to Standard Plan A73B for marker details.
6. Approach speeds indicated conform to NCHRP 350 Report criteria.
7. Use of pallets is optional.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**TEMPORARY CRASH CUSHION,
SAND FILLED
(UNIDIRECTIONAL)**

NO SCALE

RSP T1A DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T1A
DATED MAY 1, 2006 - PAGE 211 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T1A

2006 REVISED STANDARD PLAN RSP T1A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	93.8	6	82

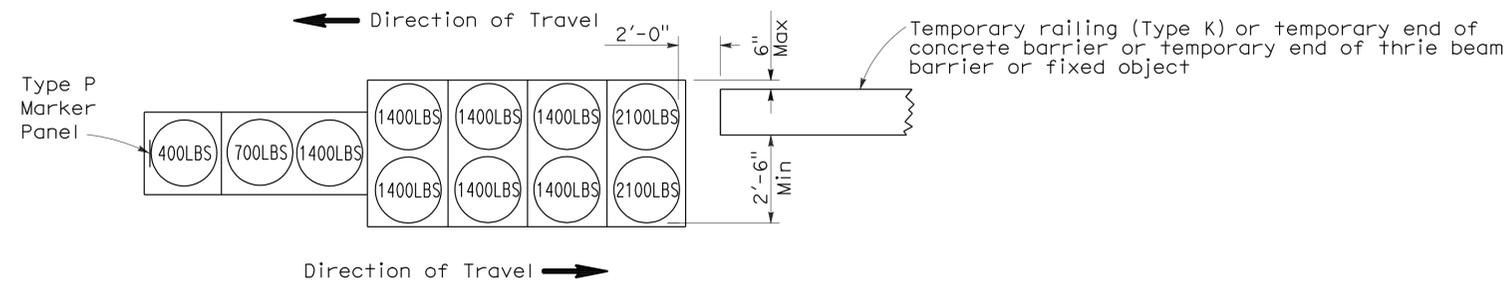
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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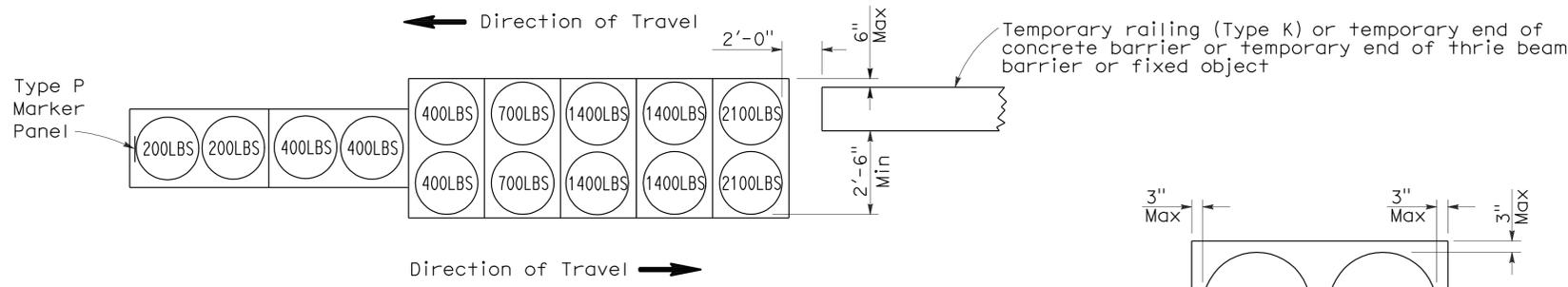
REGISTERED PROFESSIONAL ENGINEER
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

To accompany plans dated 1-11-10



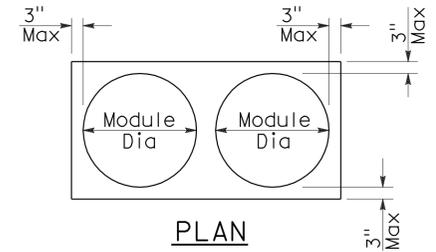
ARRAY 'TB11'

Approach speed less than 45 mph

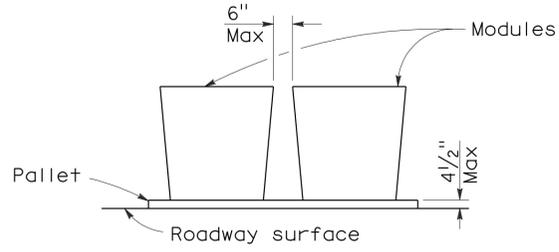


ARRAY 'TB14'

Approach speed 45 mph or more



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. Temporary crash cushion arrays shall not encroach on the traveled way.
4. Place the Type P marker panel so that the bottom of the panel rests upon the pallet.
5. Refer to Standard Plan A73B for marker details.
6. Approach speeds indicated conform to NCHRP 350 Report criteria.
7. Use of pallets is optional.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**TEMPORARY CRASH CUSHION,
SAND FILLED
(BIDIRECTIONAL)**

NO SCALE

RSP T1B DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T1B
DATED MAY 1, 2006 - PAGE 212 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T1B

2006 REVISED STANDARD PLAN RSP T1B

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	93.8	7	82

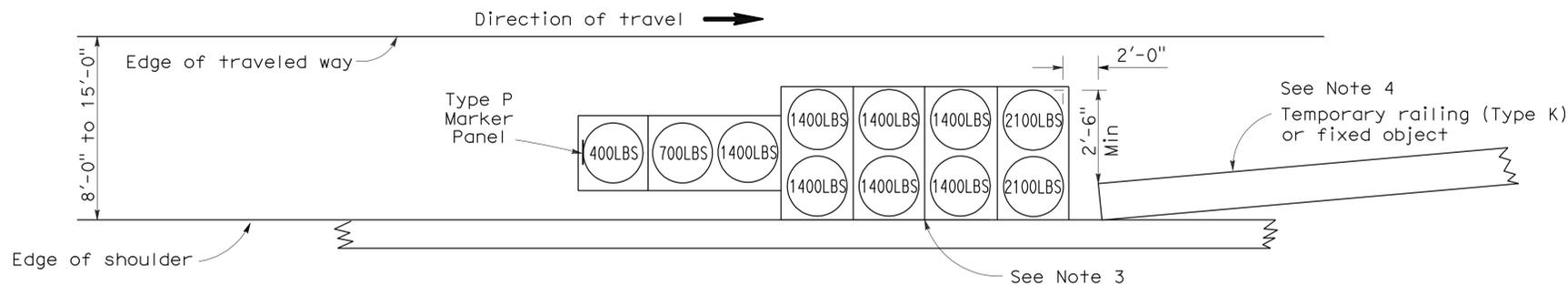
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

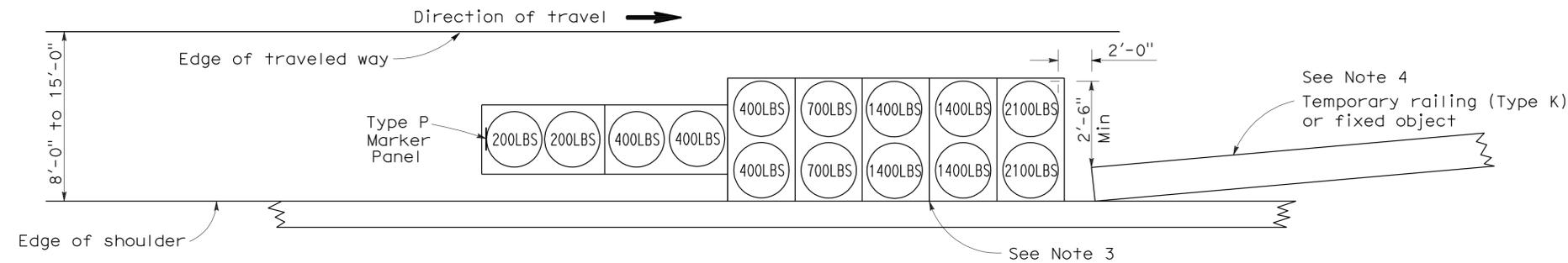
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REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

To accompany plans dated 1-11-10



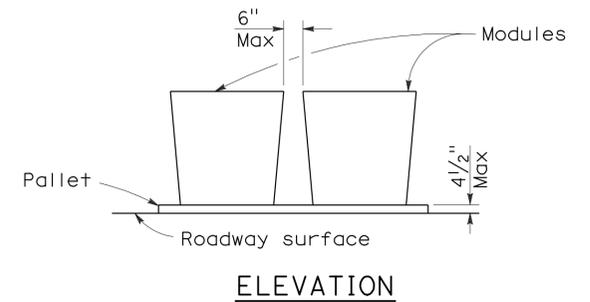
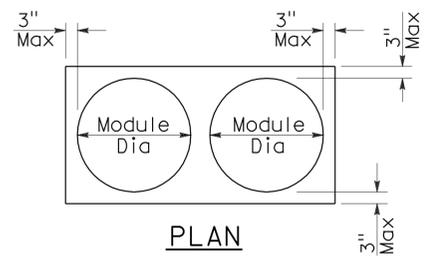
ARRAY 'TS11'
Approach speed less than 45 mph
See Note 9



ARRAY 'TS14'
Approach speed 45 mph or more
See Note 9

NOTES:

- (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
- All sand weights are nominal.
- The temporary crash cushion arrays shown on this plan shall be used only in locations where there will be traffic on one side of the temporary crash cushion array.
- If the fixed object or approach end of the temporary railing is less than 15'-0" from the edge of traveled way, a temporary crash cushion is required in a construction or work zone.
- Temporary crash cushion arrays shall not encroach on the traveled way.
- Arrays for median shoulders shall conform to details shown on this plan for outside shoulders.
- Place the Type P marker panel so that the bottom of the panel rests upon the pallet and faces traffic.
- Refer to Standard Plan A73B for marker details.
- For shoulder widths less than 8'-0", appropriate approved crash cushion protection, other than sand filled modules, shall be provided at fixed objects and at approach ends of temporary railing. The specific type of crash cushion shall be as shown on the project plans or as specified in the Special Provisions, or if not shown on the project plans or specified in the Special Provisions, shall be as approved by the Engineer.
- Approach speeds indicated conform to NCHRP 350 Report criteria.
- Use of pallets is optional.



CRASH CUSHION PALLET DETAIL
See Note 11

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**TEMPORARY CRASH CUSHION,
SAND FILLED
(SHOULDER INSTALLATIONS)**
NO SCALE

RSP T2 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T2
DATED MAY 1, 2006 - PAGE 213 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T2

2006 REVISED STANDARD PLAN RSP T2

ABBREVIATIONS

AB ANCHOR BOLT	FD FLOOR DRAIN	OA OVERALL
AC AIR COMPRESSOR	FDN FOUNDATION	OC ON CENTER
ACT ACOUSTICAL TILE	FE FIRE EXTINGUISHER	OD OUTSIDE DIAMETER
ADJ ADJUSTABLE	FEC FIRE EXTINGUISHER CABINET	OH OPPOSITE HAND
ADDL ADDITIONAL	FHMS FLATHEAD METAL SCREW	OPNG OPENING
ALT ALTERNATE	FHWS FLATHEAD WOOD SCREW	PERF PERFORATED
ALUM ALUMINUM	FG FINISH GRADE	PL PROPERTY LINE
ARCH ARCHITECTURAL	FIN FINISH	PLAM PLASTIC LAMINATE
ASPH ASPHALT	FLR FLOOR	PLAS PLASTER
	FLUOR FLUORESCENT	PLWD PLYWOOD
BD BOARD	FOC FACE OF CONCRETE	PMF PRESSED METAL FRAME
BITUM BITUMINOUS	FOCS FACE OF CONCRETE SLAB	POT PATH OF TRAVEL
BLDG BUILDING	FOM FACE OF MASONRY	PT PRESERVATIVE TREATED
BLKG BLOCKING	FOS FACE OF STUD OR STEEL	PREV PRESERVATIVE TREATED
BM BEAM	FRP FIBER REINFORCED PANEL	PNT PAINT FINISH
BOT BOTTOM	FTG FOOTING	QT QUARRY TILE
BTWN BETWEEN		QTY QUANTITY
BU BUILT-UP	GA GAUGE	R RADIUS
	GAL GALLONS	RD ROOF DRAIN
C CHANNEL	GALV GALVANIZED	REF REFERENCE
CAB CABINET	GB GRAB BAR	REINF REINFORCED
CB CATCH BASIN	GLM GLUE LAMINATED MEMBER	REQD REQUIRED
CD CAST-IN-PLACE	GR GRADE	RFEC RECESSED FIRE EXTINGUISHER
CJ CONTROL JOINT	GYPBD GYPSUM BOARD	
CL CENTERLINE		RHWS ROUNDHEAD WOOD SCREW
CLG CEILING	HB HOSE BIB	RM ROOM
CLR CLEAR	HDR HEADER	RO ROUGH OPENING
COL COLUMN	HDWR HARDWARE	R/W RIGHT OF WAY
COMP COMPOSITION	HM HOLLOW METAL	RSF RIGID STEEL FRAME
CONC CONCRETE	HMA HOT MIXED ASPHALT	
CONT CONTINUOUS	HORIZ HORIZONTAL	S SOUTH
CSJ CONTRACTION JOINT	HR HOUR	SC SOLID CORE
CT CERAMIC TILE	HSB HIGH STRENGTH BOLT	SCHD SCHEDULE
CTR COUNTER	HT HEIGHT	SH METAL SHELVING
CTSK COUNTERSUNK	HVAC HEATING VENTILATING AND AIR CONDITIONING	SHT SHEET
		SIM SIMILAR
DPT DEPTH	HWY HIGHWAY	SM SQUARE METER
DBL DOUBLE		SND SANITARY NAPKIN DISPOSAL
DD DOWNDRAIN	ID INSIDE DIAMETER	SPS STRUCTURAL PLYWD SHEATHING
DF DRINKING FOUNTAIN	ID IDENTIFICATION	SS STAINLESS STEEL
DIA DIAMETER	INT INTERIOR	STAG STAGGERED
DIAG DIAGONAL	INSUL INSULATION	STD STANDARD
DIM DIMENSION	JAN JANITOR	STL STEEL
DISP DISPENSER	JST JOIST	SUSP SUSPENDED
DN DOWN	L ANGLE	SYM SYMMETRICAL
DR DOOR	LAM LAMINATE	
DS DOWNSPOUT	LAV LAVATORY	T&B TOP AND BOTTOM
DTL DETAIL	LBF POUND-FORCE	T&G TONGUE AND GROOVE
DWG DRAWING	LPG LIQUEFIED PETROLEUM GAS	TEMP TEMPORARY
DWR DRAWER		TK THICK
		TIF TRUCK INSPECTION FACILITY
(E) EXISTING	MAT MATERIAL	TS TUBE STEEL
E EAST	MAX MAXIMUM	THLD THRESHOLD
EA EACH	MB MACHINE BOLT	TYP TYPICAL
EEWSU EMERGENCY EYE WASH SHOWER UNIT	MECH MECHANICAL	TOCS TOP OF CONCRETE SLAB
	MET METAL	TOP TOP OF PLATE
EF EXHAUST FAN	MFR MANUFACTURER	TOCC TOP OF CONCRETE CURB
EHD ELECTRIC HAND DRYER	MKBD MARKER BOARD	TOS TOP OF STEEL
EJ EXPANSION JOINT	MIN MINIMUM	TOF TOP OF DOOR/WINDOW FRAME
EL ELEVATION HEIGHT	MISC MISCELLANEOUS	
ELECT ELECTRICAL	mm MILLIMETER	UON UNLESS OTHERWISE NOTED
ELEV ELEVATION	MO MASONRY OPENING	UR URINAL
ELVR ELEVATOR	MR MOISTURE RESISTANT	
EMER EMERGENCY	MT METAL THRESHOLD	VAR VARIES
EQ EQUAL	MTD MOUNTED	VCT VINYL COMPOSITION TILE
EOS EDGE OF SLAB	MUL MULLION	VERT VERTICAL
EQUIP EQUIPMENT	MS MOP SINK	VIF VERIFY IN FIELD
ESCL ESCALATOR	N NORTH	VTR VENT THROUGH ROOF
EWC ELECTRIC WATER COOLER	(N) NEW	W WEST
EXP EXPANSION	NA NOT APPLICABLE	W/ WITH
EXT EXTERIOR	NIC NOT IN CONTRACT	W/O WITHOUT
EWC ELECTRIC WATER COOLER	No. NUMBER	WC WATER CLOSET
	NTS NOT TO SCALE	WD WOOD
		WDW WINDOW
		WDT WIDTH
		WR WATER RESISTANT

ARCHITECTURAL

STRUCTURAL

SHEET INDEX

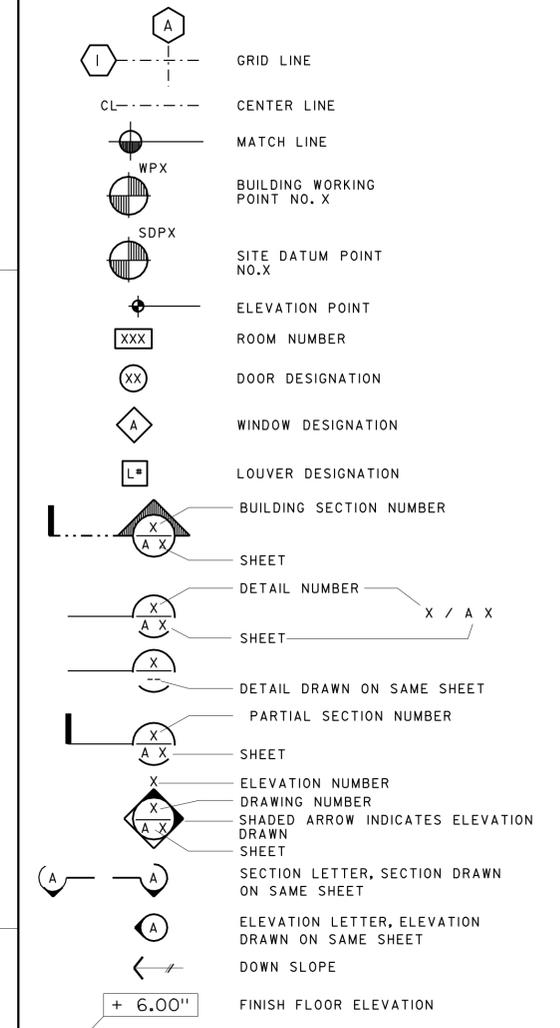
MECHANICAL

ELECTRICAL

WATER AND WASTE WATER

GP-1 GENERAL PLAN	ST-1 WOOD FRAMING STANDARD - NOTES	M 0-0 ABBREVIATIONS AND LEGENDS	EE-0 LEGEND
A0-2 SITE PLAN	ST-1A WOOD FRAMING STANDARD - NOTES	M 0-1 CERTIFICATE OF COMPLIANCE FORMS	EE-1 TITLE 24 COMPLIANCE
A0-3.1 OMITTED	ST-1B WOOD FRAMING STANDARD - DETAILS	M 1-0 SITE PLAN	EE-2 TITLE 24 COMPLIANCE
A0-3.2 OMITTED	ST-2 CONCRETE STANDARD	M 1-1 PLUMBING PLAN I	EE-3 ELECTRICAL SITE PLAN AND POWER DISTRIBUTION DIAGRAM
A0-3.3 ACCESSIBILITY STANDARD DETAILS	ST-3A COLD FORM STEEL DETAILS	M 1-2 PLUMBING PLAN II	EE-4 POWER PLAN
A0-3.4 ACCESSIBILITY STANDARD DETAILS	ST-3B COLD FORM STEEL WALL AND CEILING FRAMING	M 1-3 HVAC PLAN	EE-5 LIGHTING PLAN
A0-3.5 ACCESSIBILITY STANDARD DETAILS	ST-3C COLD FORM STEEL CEILING OPENING DETAILS	M 1-4 AIR AND WATER PLAN	EE-6 COMMUNICATION PLAN
AI-1 FLOOR PLAN, ROOF PLAN,	ST-3D COLD FORM STEEL STUD WALL DETAILS	M 1-5 SANITARY SEWER PLAN	EE-7 DETAILS 1
AI-2 BUILDING ELEVATIONS AND PAINT SCHEDULE	ST-3E COLD FORM STEEL STUD WALL DETAILS	M 1-6 JIB CRANE PLAN	EE-8 DETAILS 2
AI-3 BUILDING SECTIONS, SCHEDULES	ST-3F COLD FORM STEEL HOLDOWN DETAILS	M 1-7 JIB CRANE DETAILS	EE-9 PANEL SCHEDULE
AI-4 INTERIOR ELEVATIONS, DOORS AND WINDOWS DETAILS	STI-0 DESIGN CRITERIA AND DETAIL NOTES	M 2-0 MECHANICAL DETAILS I	SS-0 NOTES, LEGEND, AND ABBREVIATIONS
A2-1 DETAILS	STI-1 FOUNDATION AND ROOF PLAN	M 2-1 MECHANICAL DETAILS II	SS-1 SITE PLAN
A2-2 DETAILS	STI-2 OFFICE FOUNDATION AND ROOF PLAN	M 2-2 MECHANICAL DETAILS III	SS-2 DETAIL - 1
A2-3 DETAILS	STI-3 BUILDING SECTION	M 2-3 MECHANICAL DETAILS IV	SS-3 DETAIL - 2
	STI-4 BUILDING SECTION	M 2-4 MECHANICAL DETAILS V	FPS-0 NOTES, LEGENDS & ABBREVIATIONS
	STI-5 SECTION DETAIL	M 2-5 MECHANICAL DETAILS VI	FPS-1 SITE PLAN
	STI-6 FOOTING DETAILS	M 2-6 EQUIPMENT SCHEDULE	FPS-2 DETAILS
	STI-7 FOOTING DETAILS		
	STI-8 EVAPORATIVE COOLER PLATFORM PLANS		
	STI-9 EVAPORATIVE COOLER PLATFORM ELEVATIONS		
	STI-10 EVAPORATIVE COOLER PLATFORM DETAILS		
	STI-11 EXHAUST EVACUATION SUPPORT		
	STI-12 LUBE REEL SUPPORT		
	STI-13 IN LINE CENTRIFUGAL FAN SUPPORT		
	STI-14 JIB CRANE FOOTING/SLAB DETAILS I		
	STI-15 JIB CRANE FOOTING/SLAB DETAILS 2		

GRAPHIC SYMBOLS



SCOPE OF PROJECT

THE SCOPE OF PROJECT SHALL INCLUDE A CONSTRUCTION OF A NEW 2,900 SQ.FT. PRE-ENGINEERED MECHANIC'S FACILITY BUILDING AND NEW 15,000 GAL. UNDERGROUND FIRE PROTECTION WATER STORAGE TANK.

GENERAL NOTES

- CONTRACTOR SHALL VERIFY ALL CONTROLLING DIMENSIONS AND FIELD CONDITIONS BEFORE ORDERING OR FABRICATING ANY MATERIALS OR ASSEMBLIES.
- PRIOR COMMENSING BUILDING WORK, CONTRACTOR SHALL SUBMIT TO STATE ENGINEER COMPLETE SHOP DRAWINGS OF THE NEW PRE-ENGINEERED METAL BUILDING AS IDENTIFIED IN THE CONTRACT DOCUMENTS, WITH STRUCTURAL CALCULATIONS WET SIGNED BY A CALIFORNIA REGISTERED CIVIL ENGINEER FOR STATE REVIEW AND APPROVAL
- ALL THE BUILDING WORK SHALL COMPLY WITH THE FOLLOWING CODES :
 2007 CALIFORNIA BUILDING CODE
 2007 CALIFORNIA ENERGY CODE (CEC-T24)
 2007 CALIFORNIA FIRE CODE
 2007 CALIFORNIA MECHANICAL CODE
 2007 CALIFORNIA PLUMBING CODE
 2007 CALIFORNIA ELECTRICAL CODE
 AND CURRENT EDITION OF AMERICANS WITH DISABILITIES ACT

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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09 Mno 395 93.8 8 82

LICENSED ARCHITECT *Goffredo Riveccio* DATE 8/22/2009

LICENSED ARCHITECT No. C-17914 Exp. 8-31-2011 STATE OF CALIFORNIA

1-11-10 PLANS APPROVAL DATE

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ACCESSIBILITY DESIGN APPROVAL STAMP DOT / DES / OTA 09-315201 DISTRICT - EA

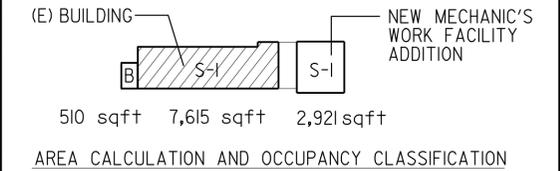
Reviewed by: *Y.A. WANG* Date: 08/12/09

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

Reviewed by: *BILL ROBERTSON* Approval date: 09/02/09

CODE ANALYSIS

BUILDING CONSTRUCTION TYPE	V B
OCCUPANCY CLASSIFICATION	S-1 / B
NUMBER OF STORIES	1
ACTUAL BUILDING HEIGHT	30 FEET
ALLOWABLE BUILDING HEIGHT	40 FEET
BUILDING AREA (EXISTING BLDG)	7,615 SF
BUILDING AREA (NEW ADDITION ONLY)	2,921 SF
TOTAL BUILDING AREA	10,536 SF
ALLOWABLE AREA PER C.B.C.	9,000 SF
AREA INCREASE	YES
FIRE SPRINKLERED	NO
FIRE ALARM	NO
OTHER FIRE PROTECTION SYSTEMS :	fire protection water tank with dry draft hydrant
	SMOKE CONTROL SYSTEM
	OCCUPANCY LOAD
	AREA HIGH FIRE HAZARD
	SEVERITY ZONE



FRONTAGE INCREASE

F = 293 feet
P = 530 feet
W = 30 feet

$$I_F = \left[\frac{293}{530} - 0.25 \right] \cdot \frac{30}{30} = 0.3$$

MIXED OCCUPANCIES

	ACTUAL BLDG AREA	ALLOWABLE AREA	AREA INCREASE
S-1	10,036 sf	9,000 sf	0.3 x 9,000 = 2,700 2,700 + 9,000 = 11,700 sf
B	510 sf	9,000 sf	0.3 x 9,000 = 2,700 2,700 + 9,000 = 11,700 sf

510 sf + 10,036 sf = 0.04 + 0.85 = 0.89 < 1

11,700 sf 11,700 sf

DESIGN SUPERVISOR <i>RE Travis</i>	DESIGNER GOFFREDO RIVECCIO	CHECKED BY WARREN LAI	SHEET LEGEND A-1 ARCHITECTURAL ST-1 STRUCTURAL M-1 MECHANICAL EE-1 ELECTRICAL W-1 WATER SUPPLY SS-1 SANITARY	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 47M5717 POST MILE 93.8	SONORA JUNCTION MAINTENANCE STATION MECHANIC'S WORK FACILITY	SHEET GP-1
DESIGN ARCHITECT <i>Warren Lai</i>	DRAWN BY GOFFREDO RIVECCIO	STRUCTURAL REVIEW WARREN LAI					GENERAL PLAN	
a0_01gp.dgn	DS OSD Imperial Rev. 11/98	13-JAN-2010 13:09	CSFM FILE NUMBER : 01-26-11-0004	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	CU 09603 EA 315201	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF X X

13-JAN-2010 13:09

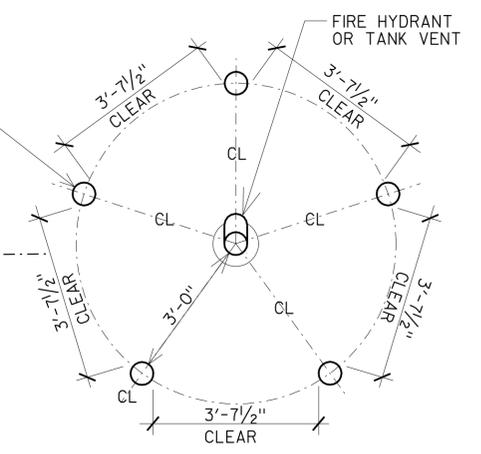
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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 STATE OF CALIFORNIA

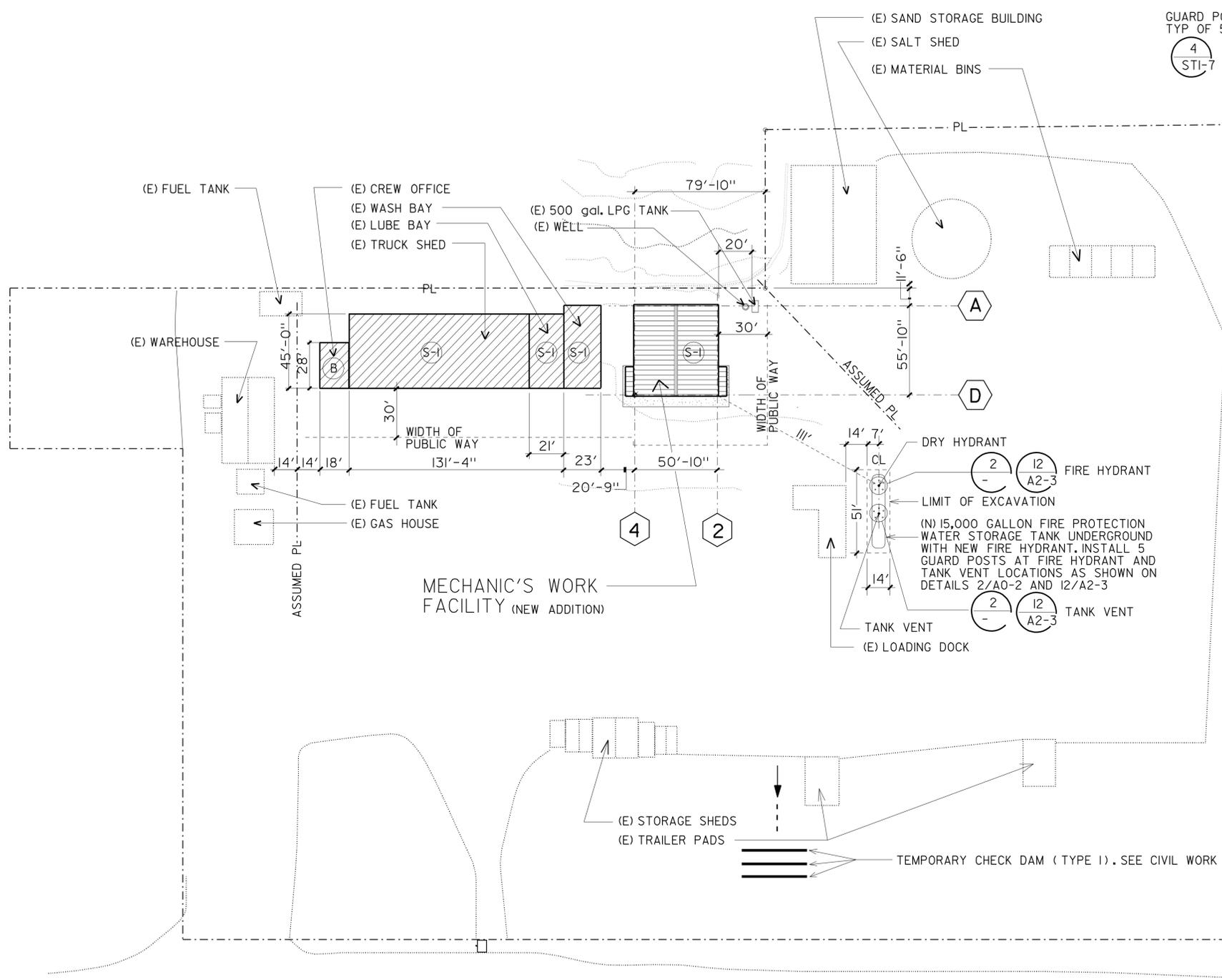
1-11-10
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ACCESSIBILITY DESIGN APPROVAL STAMP
 DOT / DES / OTA
09-315201
 DISTRICT - EA
 Reviewed by: *Y. A. WANG*
 Date: 08/12/09

CALIFORNIA STATE FIRE MARSHAL APPROVED
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 Reviewed by: *Bill Robertson*
 Approval date: 09/02/09



2 GUARD POSTS LAY-OUT @ WATER STORAGE TANK
NTS



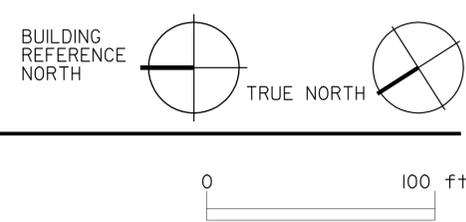
1 SITE PLAN
1" = 40'

FIRE FLOW CALCULATION PER NFPA* II42

TOTAL VOLUME STRUCTURE	X	CONSTRUCTION CLASSIFICATION	=	MINIMUM WATER SUPPLY
OCCUPANCY HAZARD CLASSIFICATION NUMBER		NUMBER		
64,878 cubic feet		1.5	=	13,902 GALLONS
7	X			USE 15,000 GALLONS TANK

* NFPA = NATIONAL FIRE PROTECTION AGENCY

- ACCESSIBILITY NOTES**
- PEDESTRIAN PATH OF TRAVEL (POT) FROM SITE ENTRANCE ON PROPERTY LINE TO NEW BUILDING IS NOT REQUIRED TO BE IN THE SCOPE OF WORK, AS NO PUBLIC TRANSPORTATION IS AVAILABLE ON THE ADJACENT STREETS, AND ALL USERS OR ANY VISITORS ARRIVE BY VEHICLES ONLY.
 - NO DESIGNATED PARKING SPACE EXISTS ON SITE. ANY VEHICLES ACCESSING NEW BUILDING MAY BE PARKED NEXT TO CONCRETE APRONS BY THE TWO EXTERIOR DOORS. SUCH CONCRETE APRONS SHOWN WITH HATCHED LINES ON SHEET A1-1 SHALL HAVE A MAXIMUM SLOPE OF 2% IN ANY DIRECTIONS. ANY SPECIFIC POT WITHIN SUCH CONCRETE APRONS NEED NOT TO BE IDENTIFIED.
 - LEVEL CHANGE BETWEEN THE ABOVE CONCRETE APRONS AND ADJACENT FINISH GRADE SHALL BE MAX. 1/2" W/MAX. 1:2 SLOPE. LEVEL CHANGE NOT EXCEEDING 1/4" MAY BE VERTICAL.
 - LEVEL CHANGE AT PEDESTRIAN DOORWAY, INCLUDING THRESHOLD THICKNESS, SHALL BE MAX. 1/2" WITH MAX. 1:2 SLOPE. LEVEL CHANGE NOT EXCEEDING 1/4" MAY BE VERTICAL.
 - ALL PEDESTRIAN DOORS SHALL HAVE CLEAR LEVEL AREAS ON BOTH SIDES OF DOORS WITH MAX. 2% SLOPE IN ANY DIRECTION. CLEAR LEVEL AREA AT EXTERIOR DOOR FRONT APPROACH SHALL BE MIN. 60" x 60" IN THE DIRECTION OF DOOR SWING (INCLUDING MIN. 24" PASS DOOR STRIKE EDGE), AND MIN. 48" DEEP x 36" WIDE OPPOSITE DOOR SWING (PLUS MIN. 12" PASS DOOR STRIKE EDGE IF DOOR HAS BOTH LATCH AND CLOSER).
 - CLEAR LEVEL AREA AT INTERIOR DOOR FRONT APPROACH SHALL BE MIN. 60" DEEP x 54" WIDE IN THE DIRECTION OF DOOR SWING (INCLUDING MIN. 18" PASS DOOR STRIKE EDGE), AND MIN. 48" DEEP x 36" WIDE OPPOSITE DOOR SWING (PLUS MIN. 12" PASS DOOR STRIKE EDGE IF DOOR HAS BOTH LATCH AND CLOSER).
 - INTERIOR CONCRETE SLOPE SHALL HAVE A MAXIMUM SLOPE OF 2% IN ANY DIRECTIONS.
 - AISLES FORMED BY EQUIPMENT / STORED MATERIALS / WALLS AT ANY ROOMS SHALL BE MIN. 36" WIDE IF SERVING ONE SIDE, AND MIN. 44" WIDE IF SERVING BOTH SIDES.
 - ALL (E) BUILDINGS AND FACILITIES ON SITE ARE NOT TO BE RENOVATED. THEREFORE, POT'S TO SUCH ARE NOT REQUIRED.



CSFM FILE NUMBER : 01-26-II-0004

DESIGN	BY GOFFREDO RIVECCIO	CHECKED <i>Warren Lai</i> WARREN LAI
DETAILS	BY GOFFREDO RIVECCIO	CHECKED <i>Warren Lai</i> WARREN LAI
QUANTITIES	BY DAVID FORBES	CHECKED KEVIN OKINO

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
ARCHITECTURAL AND STRUCTURAL DESIGN

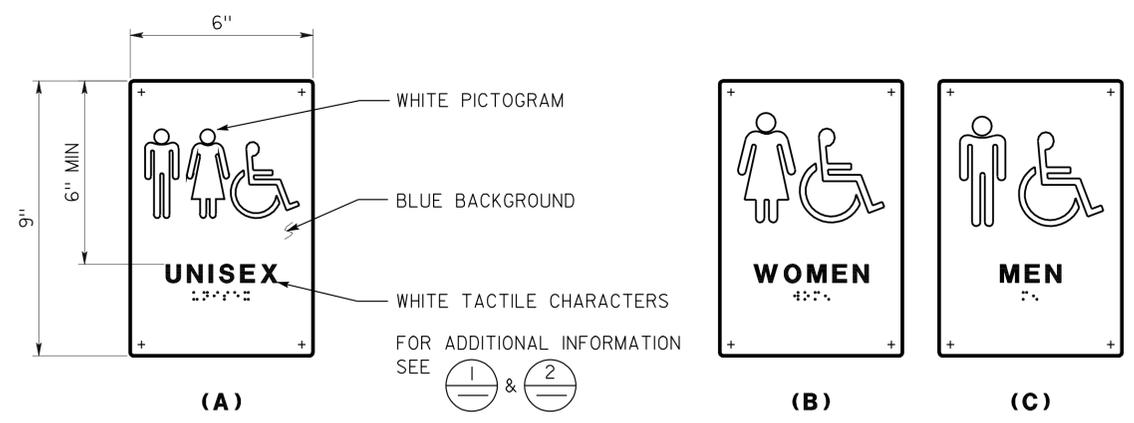
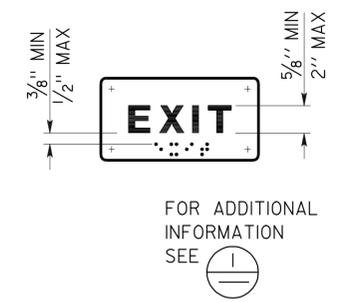
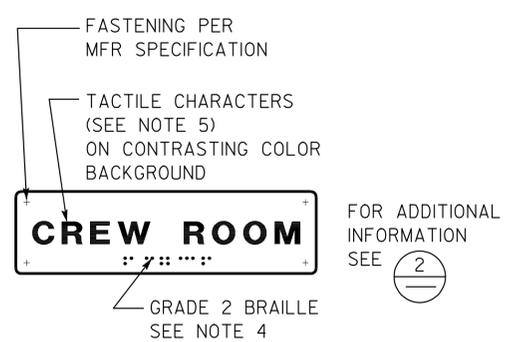
BRIDGE NO.	47M5717
POST MILE	93.8

**SONORA JUNCTION MAINTENANCE STATION
MECHANIC'S WORK FACILITY**
SITE PLAN

SHEET **A0-2**

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	93.8	10	82

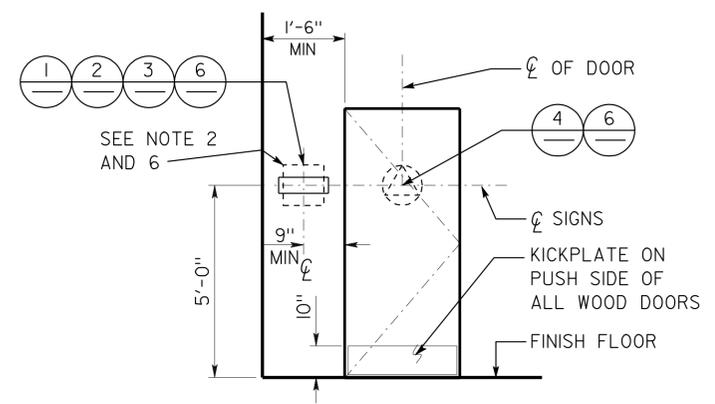
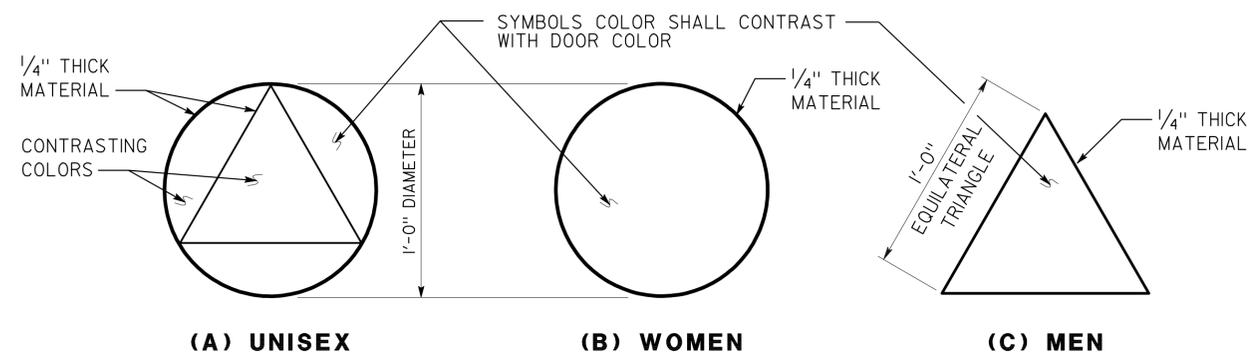
<i>Y.A. Wang</i>		8-20-08	
LICENSED ARCHITECT		DATE	
1-11-10			
PLANS APPROVAL DATE			
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1 ROOM IDENTIFICATION SIGN
 INSTALL PER DETAIL 5
 TEXT VARIES
 SEE PLANS, EXT ELEVATIONS, OR DOOR SCHEDULE FOR LOCATIONS AND TEXT

2 EXIT SIGN
 INSTALL PER DETAIL 5
 TEXT MAY VARY
 SEE PLANS, OR DOOR SCHEDULE FOR LOCATIONS AND TEXT

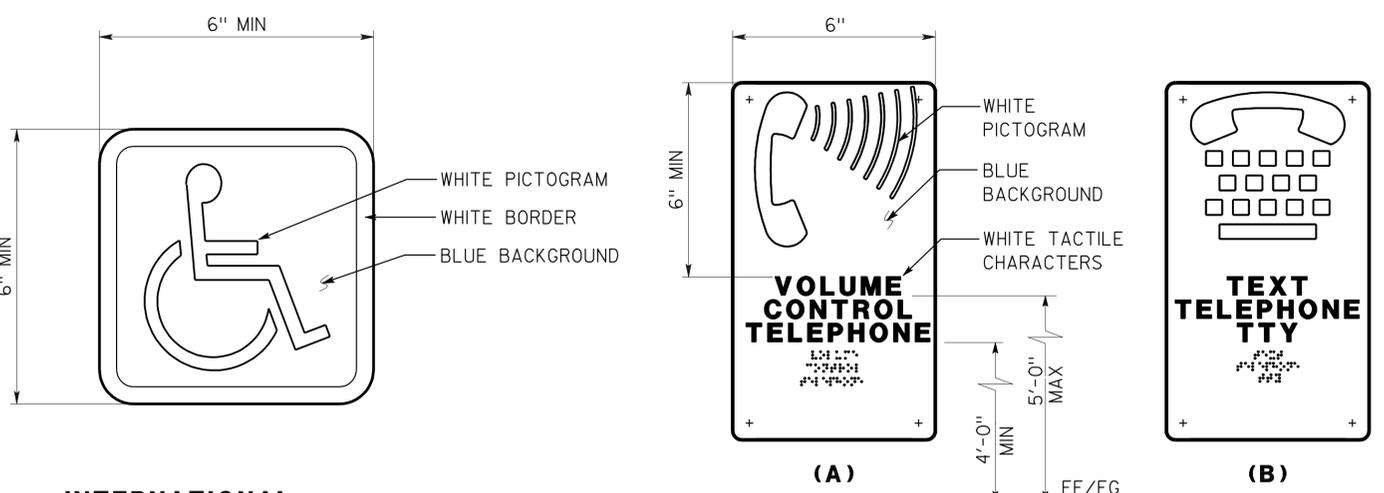
3 RESTROOM SIGNS
 INSTALL PER DETAIL 5



- SIGNAGE NOTES:**
- LOCATE ROOM IDENTIFICATION SIGNS, EXIT SIGNS, AND RESTROOM SIGNS ON WALL ADJACENT TO DOOR ON LATCH SIDE. IF WALL SPACE IS NOT AVAILABLE ON LATCH SIDE, LOCATE ON NEAREST ADJACENT WALL.
 - REFER TO SPECIFICATIONS FOR SIGN MATERIAL AND COLOR SELECTION. COLORS MAY VARY FROM DETAILS.
 - SEE DOOR SCHEDULE FOR TEXT AND SIGN LOCATIONS, UON.
 - GRADE 2 BRAILLE: DOTS SHALL BE 1/10" OC IN EACH CELL WITH 2/10" SPACE BETWEEN CELLS MEASURED FROM THE SECOND COLUMN OF DOTS IN THE FIRST CELL TO THE FIRST COLUMN OF DOTS IN THE SECOND CELL. DOTS SHALL BE RAISED A MINIMUM OF 1/40" ABOVE THE BACKGROUND.
 - TACTILE CHARACTERS SHALL BE UPPERCASE SANS SERIF RAISED 1/32" MIN WITH A WIDTH TO HEIGHT RATIO BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH TO HEIGHT RATIO BETWEEN 1:5 AND 1:10.
 - PROVIDE 18"x18" MIN CLEAR FLOOR SPACE IN FRONT OF AND CENTERED ON THE SIGN.

4 RESTROOM IDENTIFICATION SYMBOLS
 INSTALL PER DETAIL 5
 ANY PICTOGRAM AND TEXT ARE NOT REQUIRED

5 SIGN LOCATIONS
 REFER TO SIGNAGE NOTES FOR ADDITIONAL INFORMATION



6 INTERNATIONAL SYMBOL OF ACCESSIBILITY
 INSTALL PER DETAIL 5
 SEE PLANS, EXT ELEVATIONS, OR SCHEDULE FOR SIGN LOCATIONS
 SYMBOL MAY BE ON DOOR OR WALLS.
 DECAL MAY BE USED ON DOORS OR SMOOTH WALLS

7 TELEPHONE SIGNS
 TEXT MAY VARY
 SEE PLANS OR EXT ELEVATIONS FOR SIGN LOCATIONS AND MOUNTING HEIGHTS

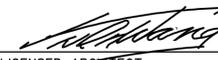
8 RESTROOM ACCOMPANY SIGN
 SEE PLANS OR ELEVATIONS FOR LOCATIONS

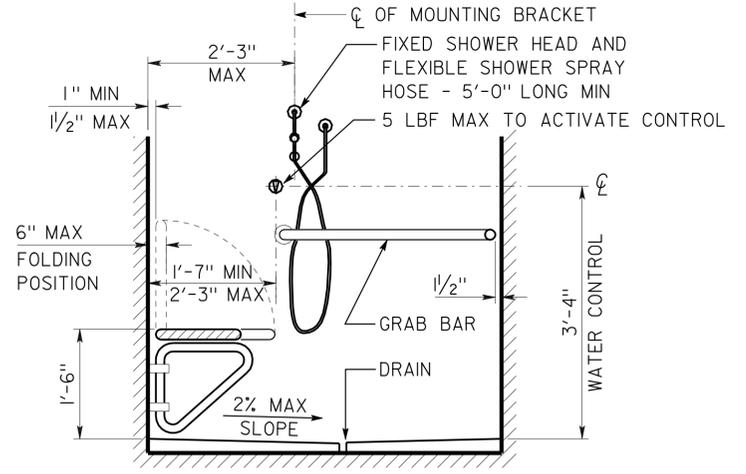
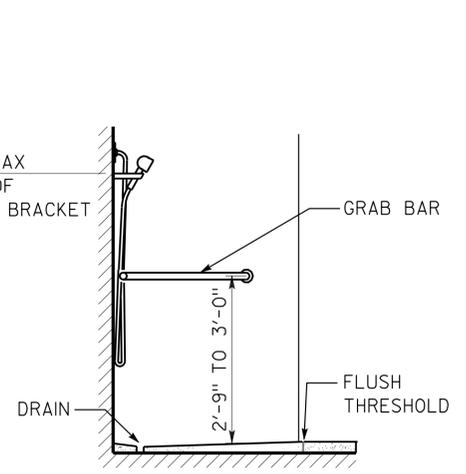
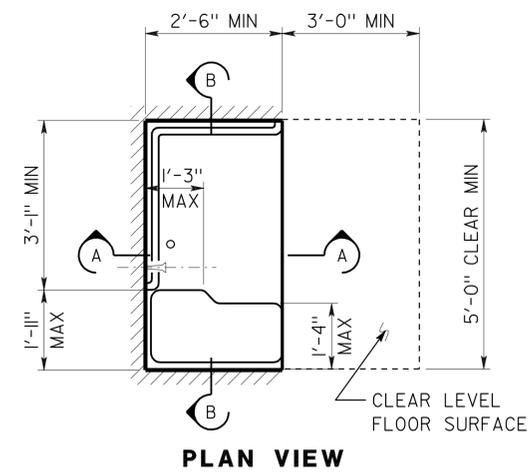
9 NO SMOKING SIGN
 SEE PLANS OR EXTERIOR ELEVATIONS FOR LOCATIONS

DETAILS
 NO SCALE UNLESS OTHERWISE NOTED

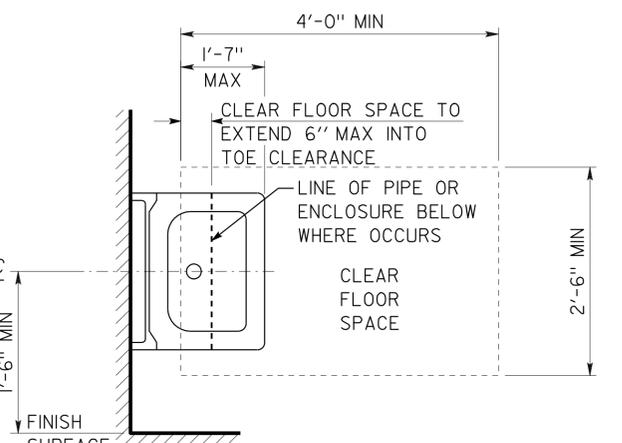
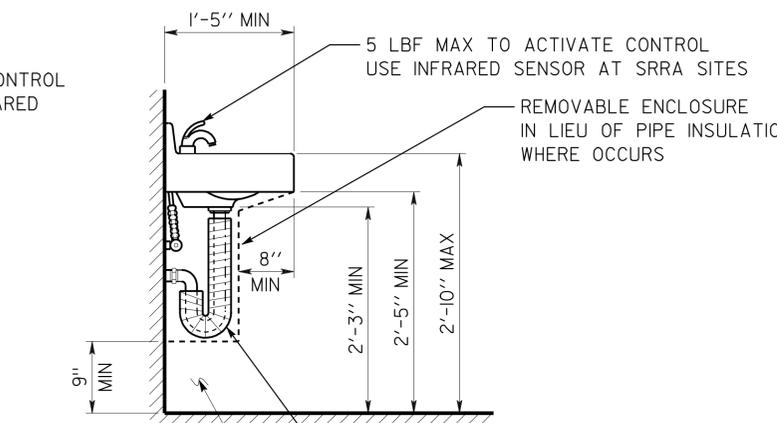
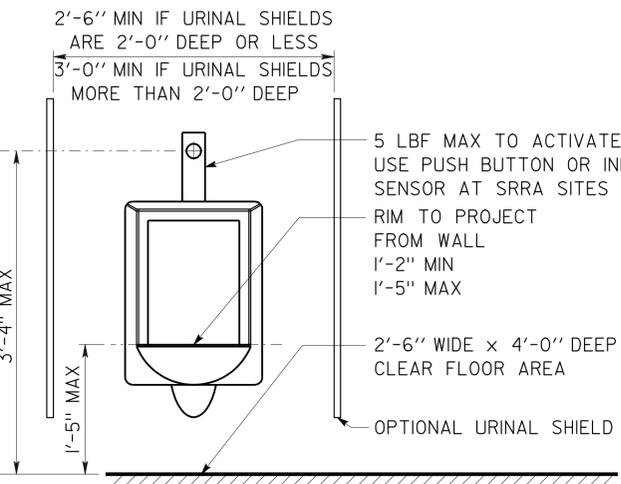
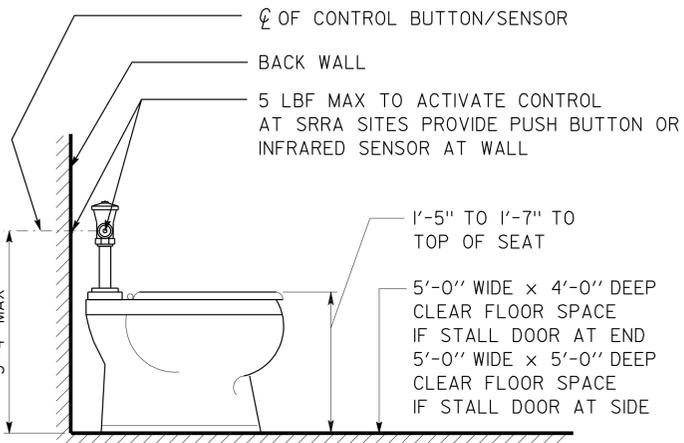
NOTE: SPECIFIC DETAILS OR NOTES ON OTHER SHEETS SHALL PREVAIL OVER STANDARD DETAILS AND NOTES ON THIS SHEET

STANDARD DRAWING				DESIGN BY GOFFREDO RIVIECCIO				STATE OF CALIFORNIA				DIVISION OF ENGINEERING SERVICES				BRIDGE NO. 47M5717				SONORA JUNCTION MAINTENANCE STATION				SHEET															
FILE NO. 08-08				DESIGN BY D. ALSEY				CHECKED Y.A. WANG				APPROVED <i>Y.A. Wang</i>				ARCHITECTURAL				MECHANIC'S WORK FACILITY				A0-3.3															
DRAWING DATE 08-08				DETAILS BY D. GOOD				CHECKED Y.A. WANG				DESIGN SUPERVISOR				AND STRUCTURAL DESIGN				ACCESSIBILITY				ACCESSIBILITY STANDARD DETAILS															
SUBMITTED BY Y.A. WANG				CSFM				LE NUMBER: 01-26-11-0004				QUANTITIES BY DAVID FORBES				CHECKED KEVIN OKINO				POST MILE 93.8																			
a0_03_3.dgn				DS OSD Imperial Rev. 10/07				13-JAN-2010				13:10				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3				CU 09603				DISREGARD PRINTS BEARING EARLIER REVISION DATES				REVISION DATES (PRELIMINARY STAGE ONLY)				SHEET OF			

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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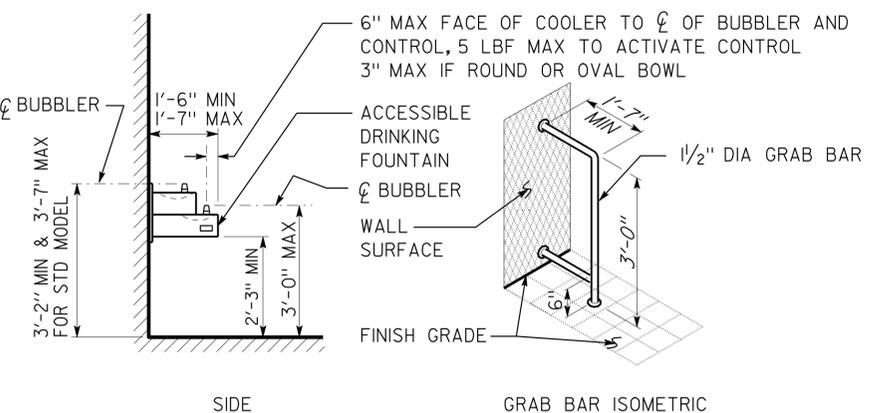
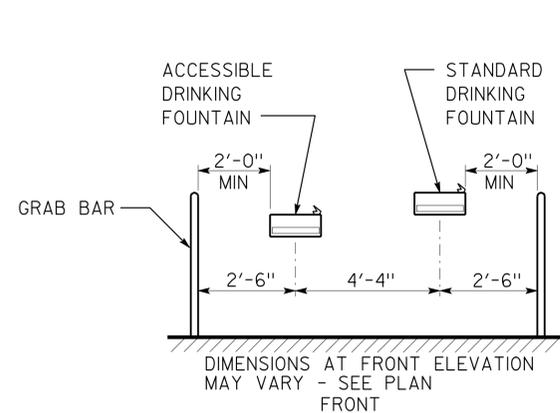
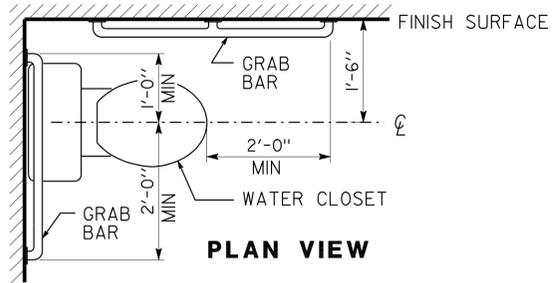
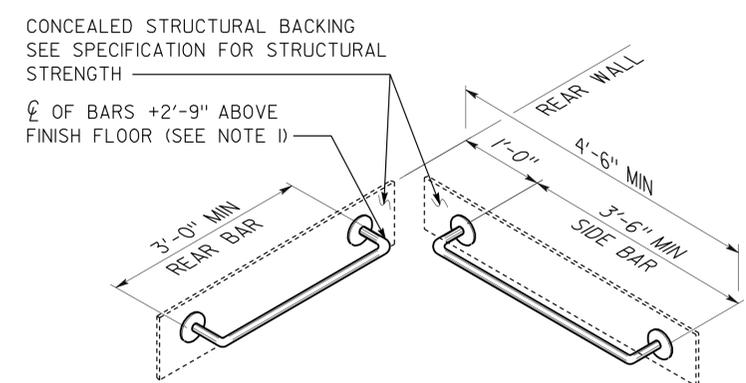
1 SHOWER STALL
OMIT AT SRRA SITES



2 WATER CLOSET
SEE SPEC FOR FIXTURE TYPE

3 URINAL

4 LAVATORY



5 GRAB BARS/ WATER CLOSET

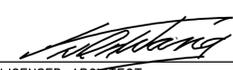
6 ELECTRIC WATER COOLER

DETAILS
NO SCALE UNLESS OTHERWISE NOTED

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

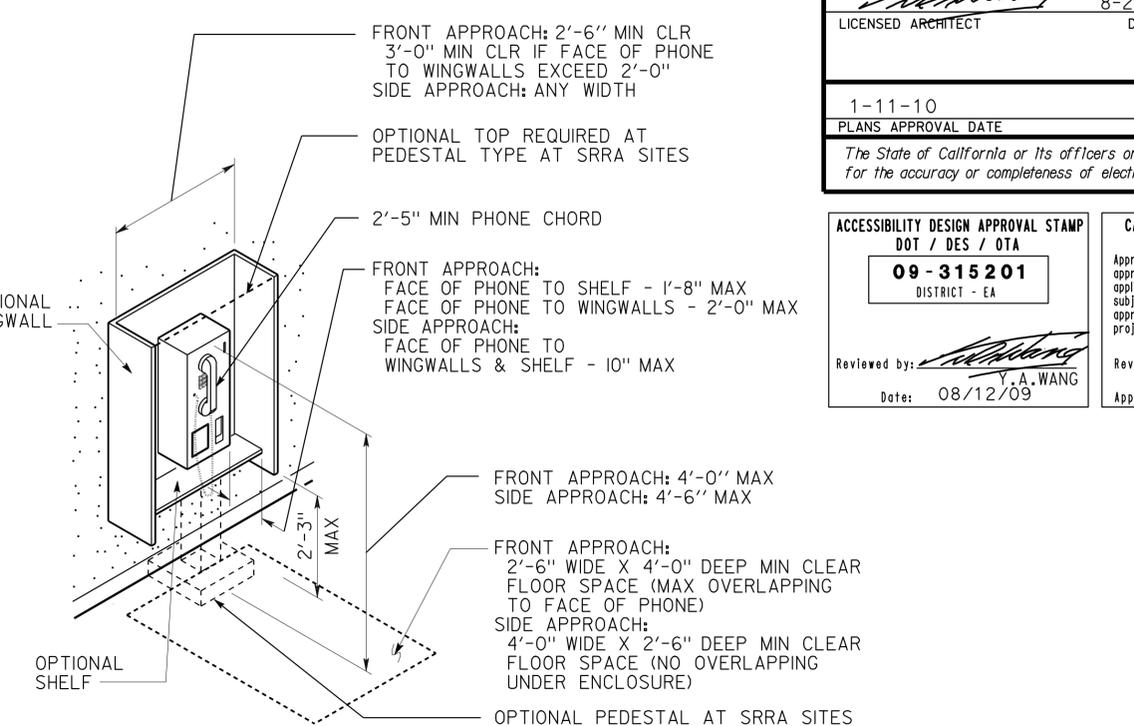
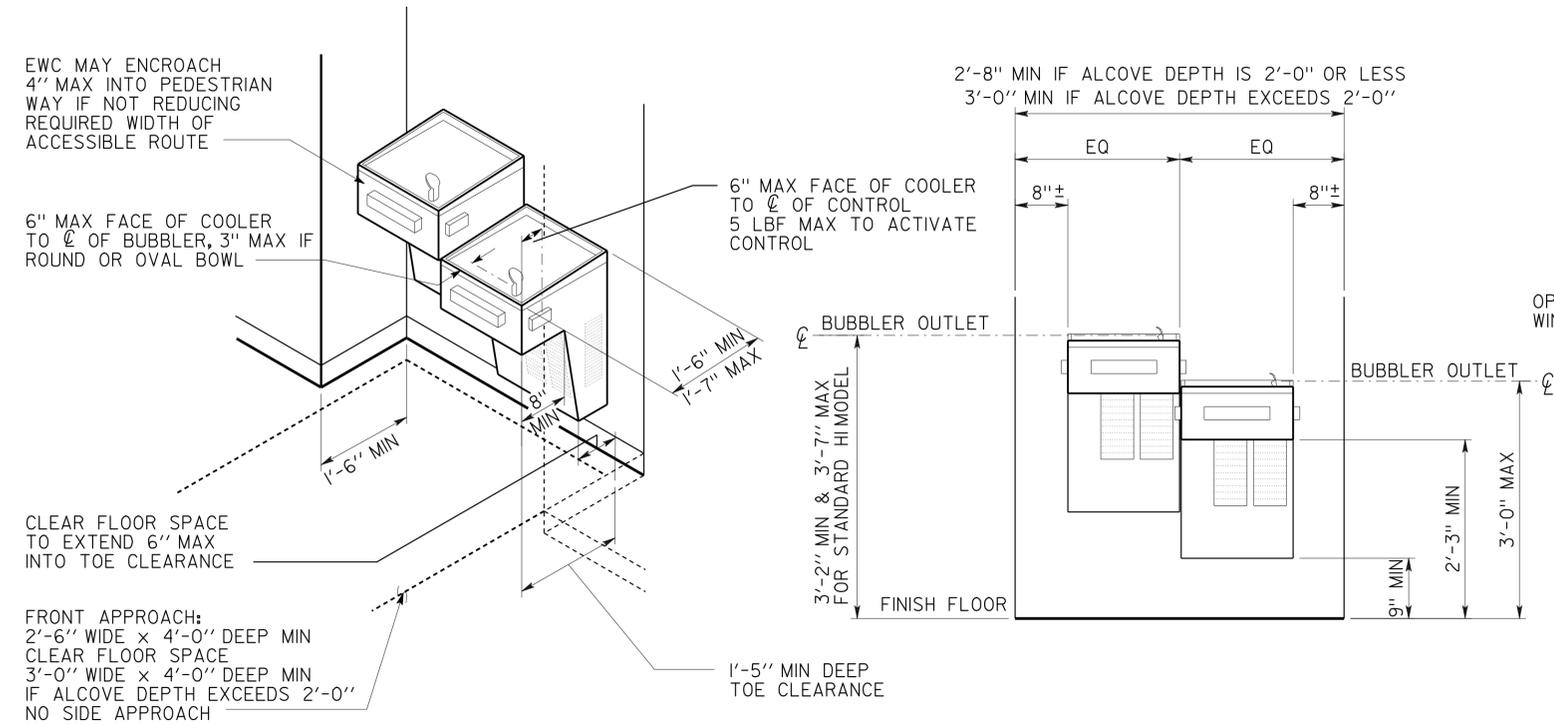
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FILE NO. 08-08	DESIGN BY D. ALSEY	CHECKED Y.A. WANG	APPROVED Y.A. WANG	DETAILS BY GOFFREDO RIVIECCIO	CHECKED WARREN LAI	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN		POST MILE 93.8		ACCESSIBILITY ACCESSIBILITY STANDARD DETAILS		SHEET OF	
DATE 08-08	BY D. GOOD	CHECKED Y.A. WANG	LE NUMBER: 01-26-11-0004	QUANTITIES BY DAVID FORBES	CHECKED KEVIN OKINO	DEPARTMENT OF TRANSPORTATION		93.8		REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF	
SUBMITTED BY Y.A. WANG				DESIGN SUPERVISOR				CU 09603 EA 315201		DISREGARD PRINTS BEARING EARLIER REVISION DATES		SHEET OF	

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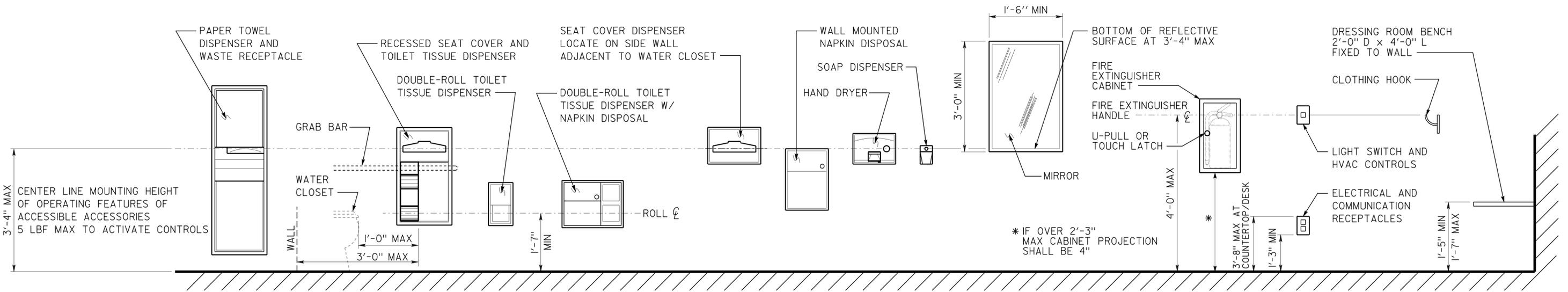


ACCESSIBILITY DESIGN APPROVAL STAMP DOT / DES / OTA 09-315201 DISTRICT - EA Reviewed by:  Date: 08/12/09	CALIFORNIA STATE FIRE MARSHAL APPROVED Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. The set of approved plans shall be available on the project site at all times. Reviewed by:  BILL ROBERTSON Approval date: 09/02/09
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1 ALCOVE ELECTRIC WATER COOLER
FIXTURE TYPE MAY VARY

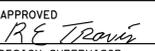
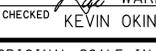
2 TELEPHONE



3 ACCESSORIES

DETAILS
NO SCALE UNLESS OTHERWISE NOTED

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

STANDARD DRAWING				DESIGN BY GOFFREDO RIVIECCIO	CHECKED  WARREN LAI	BRIDGE NO. 47M5717	SONORA JUNCTION MAINTENANCE STATION MECHANIC'S WORK FACILITY		SHEET A0-3.5
FILE NO. 08-08	DESIGN BY D. ALSEY	CHECKED Y.A. WANG	APPROVED  Y.A. WANG	DETAILS BY GOFFREDO RIVIECCIO	CHECKED  WARREN LAI	POST MILE 93.8	ACCESSIBILITY ACCESSIBILITY STANDARD DETAILS		
DRAWING DATE 08-08	DETAILS BY D. GOOD	CHECKED Y.A. WANG	DESIGN SUPERVISOR	QUANTITIES BY DAVID FORBES	CHECKED KEVIN OKINO	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
SUBMITTED BY Y.A. WANG CSFM				LE NUMBER: 01-26-11-0004		CU 09603 EA 315201			
a0_03_5.dgn DS OSD Imperial Rev. 10/07 13-JAN-2010 13:10				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3					

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	93.8	13	82

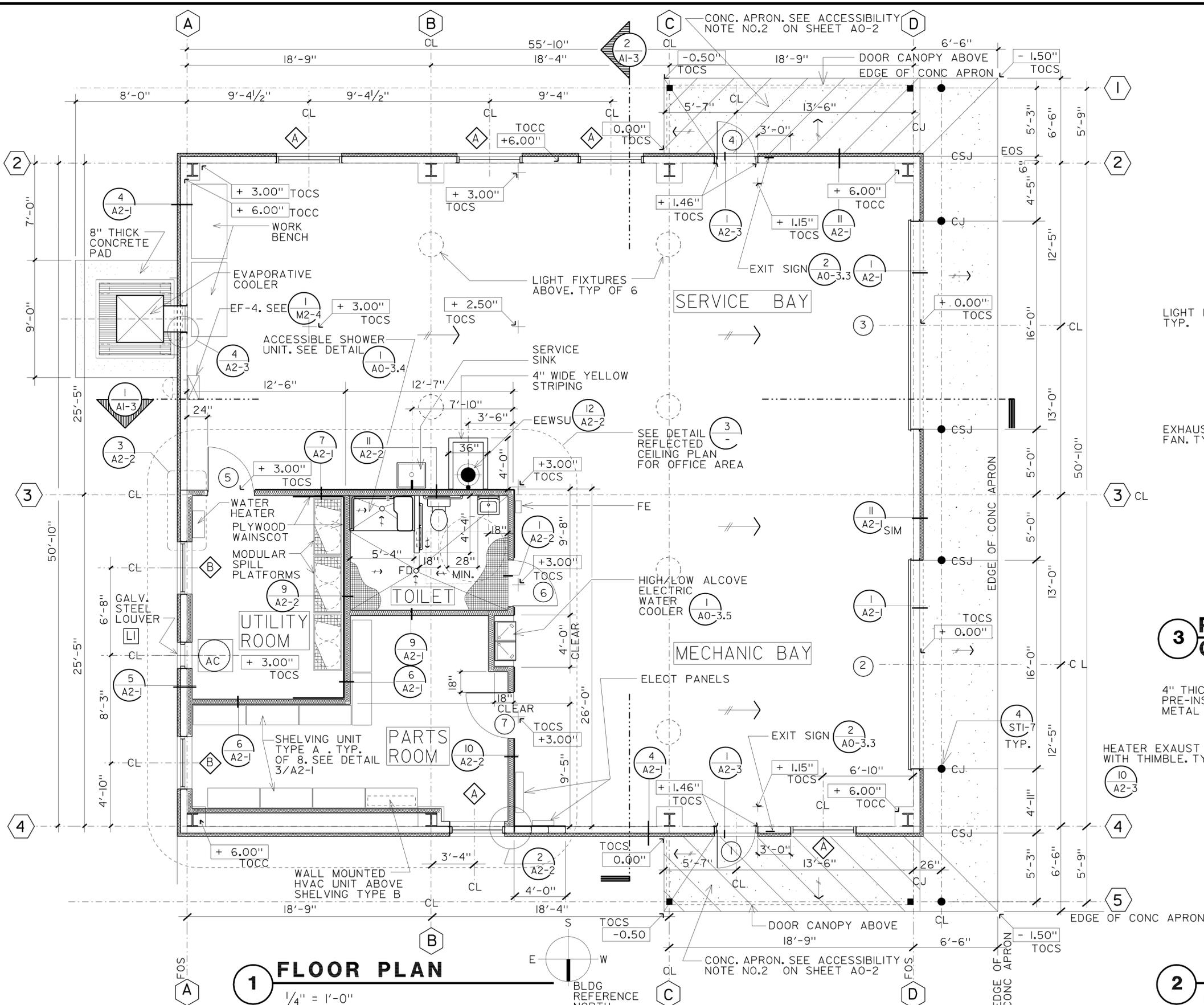
LICENSED ARCHITECT	DATE
<i>Goffredo Riveccio</i>	8/22/2009

1-11-10
PLANS APPROVAL DATE

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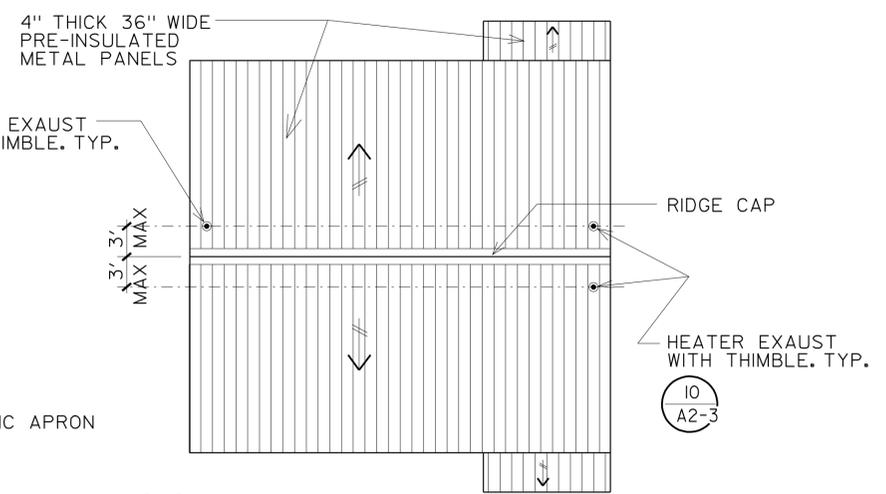


ACCESSIBILITY DESIGN APPROVAL STAMP DOT / DES / OTA 09-315201 DISTRICT - EA	CALIFORNIA STATE FIRE MARSHAL APPROVED Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. The set of approved plans shall be available on the project site at all times.
Reviewed by: <i>Y. A. WANG</i> Date: 08/12/09	Reviewed by: <i>Bill Robertson</i> Approval date: 09/02/09



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

3 PARTIAL REFLECTED CEILING PLAN
NTS



2 ROOF PLAN
NTS

a1_01.dgn DS OSD Imperial Rev. 10/07 13-JAN-2010 13:11	DESIGN BY	GOFFREDO RIVECCIO	CHECKED	WARREN LAI	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 47M5717	SONORA JUNCTION MAINTENANCE STATION MECHANIC'S WORK FACILITY FLOOR PLAN, ROOF PLAN	SHEET
	DETAILS BY	GOFFREDO RIVECCIO	CHECKED	WARREN LAI		POST MILE 93.8	93.8		A1-1
	QUANTITIES BY	DAVID FORBES	CHECKED	KEVIN OKINO	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 09603 EA 315201	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF

13-JAN-2010 13:11

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	93.8	14	82

LICENSED ARCHITECT: *Goffredo Riveccio*
 DATE: 8/22/2009
 LICENSED ARCHITECT: *Y. A. WANG*
 DATE: 08/12/09

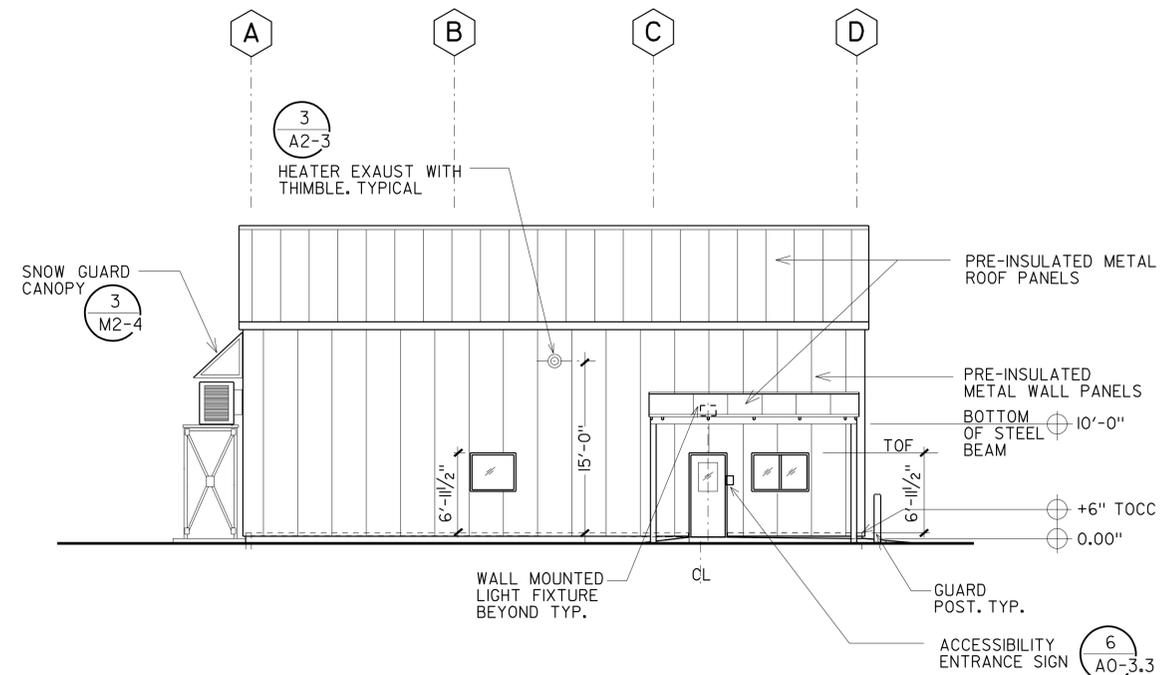
LICENSED ARCHITECT
 Goffredo Riveccio
 No. C-17914
 Exp. 8/31/2011
 STATE OF CALIFORNIA

1-11-10
 PLANS APPROVAL DATE
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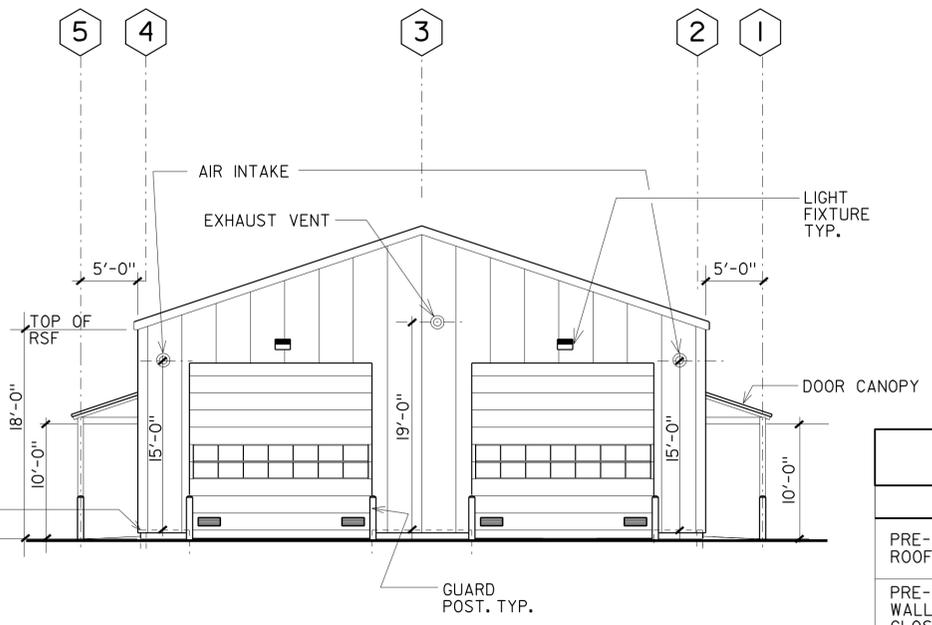
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 DOT / DES / OTA
09-315201
 DISTRICT - EA

Reviewed by: *Bill Robertson*
 Date: 08/12/09

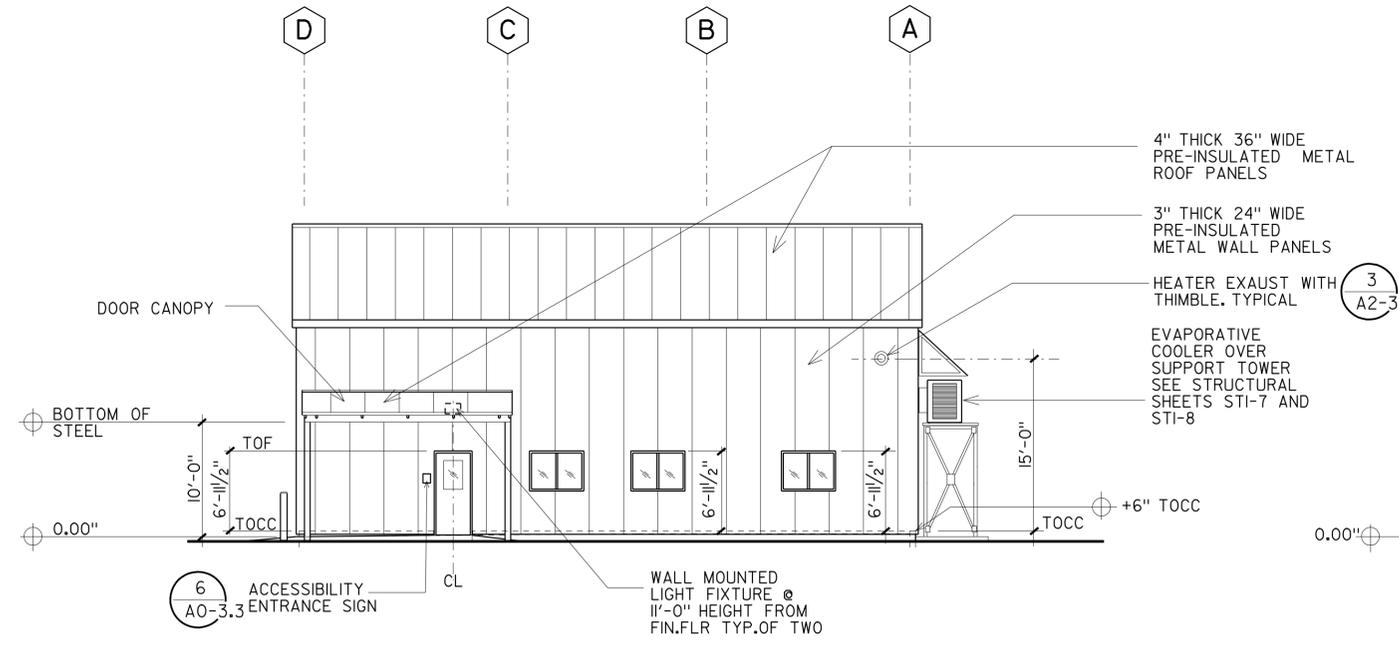
CALIFORNIA STATE FIRE MARSHAL APPROVED
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 Approval date: 09/02/09



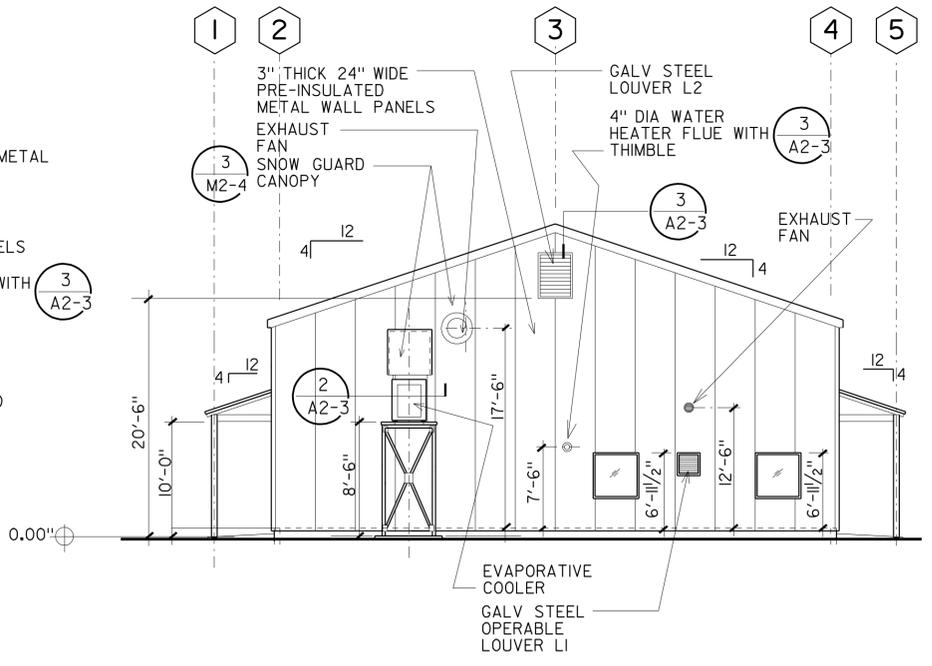
1 NORTH ELEVATION
1/8"=1'-0"



2 WEST ELEVATION
1/8"=1'-0"



3 SOUTH ELEVATION
1/8"=1'-0"



4 EAST ELEVATION
1/8"=1'-0"

COLOR & PAINT SCHEDULE		
ITEMS	COATING SYSTEM	COLOR
PRE-INSULATED METAL ROOFING PANEL	BY MFR	VERSAPANEL BY CENTRIA GREEN COLOR
PRE-INSULATED METAL WALL PANEL AND TRIM CLOSURES	BY MFR	FORMAWALL BY CENTRIA BEIGE COLOR
STRUCTURAL STEEL INTERIOR	D	FROST 55YY 80/072 BY ICI
STRUCTURAL STEEL EXTERIOR	D	POROUS STONE DE6220 LRV 57, DUNN EDWARDS
MISC METALS / FLASHING GALVANIZED STEEL EXPOSED MECH DUCTS	B	POROUS STONE DE6220 LRV 57, DUNN EDWARDS
SECTIONAL OVERHEAD DOORS	D	DE 6128 SAND DUNE LRV 62 BY DUNN-EDWARDS
METAL DOORS AND FRAMES	D	ARLINGTON GREEN BY ICI
ALUMINUM FRAME WINDOWS AND LOUVERS	A	ARLINGTON GREEN BY ICI
GYPSUM BOARD	C	FROST 55YY 80/072 BY ICI
PLYWOOD SHEATHING WOOD TRIMS WOOD WINDOW SILLS	E	DE6220 POROUS STONE LRV57 BY DUNN EDWARDS
GUARD POSTS	D	DE5340 BANANA PEEL LRV 76 BY DUNN EDWARDS
CERAMIC TILES	BY MFR	FLOOR AND WALLS : 3"x3" ARTISAN BROWN D144 UNGLAZED MOSAIC COLORBODY BY DAL TILE
RESILIENT BASE	BY MFR	4" BLACK BROWN NO.523 BURKEBASE

MANUFACTURERS' DESIGNATIONS SHOWN ON THIS COLOR AND PAINT SCHEDULE ARE FOR REFERENCE ONLY AS EXAMPLES OF QUALITY, COLOR AND FINISH. OTHER SIMILAR MANUFACTURER'S PRODUCTS WHICH ARE EQUAL OR BETTER MAY BE SUBMITTED BY CONTRACTOR TO STATE FOR REVIEW AND APPROVAL.

a1_02.dgn DS OSD Imperial Rev. 10/07 20-JAN-2010 12:58	DESIGN BY GOFFREDO RIVECCIO CHECKED WARREN LAI	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 47M5717 POST MILE 93.8	SONORA JUNCTION MAINTENANCE STATION MECHANIC'S WORK FACILITY BUILDING ELEVATIONS AND PAINT SCHEDULE	SHEET OF A1-2
	DETAILS BY GOFFREDO RIVECCIO CHECKED WARREN LAI		QUANTITIES BY DAVID FORBES CHECKED KEVIN OKINO	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		CU 09603 EA 315201

CSFM FILE NUMBER : 01-26-11-0004

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	93.8	15	82

LICENSED ARCHITECT: Goffredo Riveccio
 No. C-17914
 Exp. 8/31/2011
 STATE OF CALIFORNIA

8/22/2009 DATE
 1-11-10 PLANS APPROVAL DATE
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NOTE 1

WARNING SIGNS SHALL APPROXIMATELY 14" x 18" AND SHALL BE LETTERED IN RED LETTERS 1/2" HIGH ON A WHITE BACKGROUND AND SHALL STATE THE FOLLOWING:

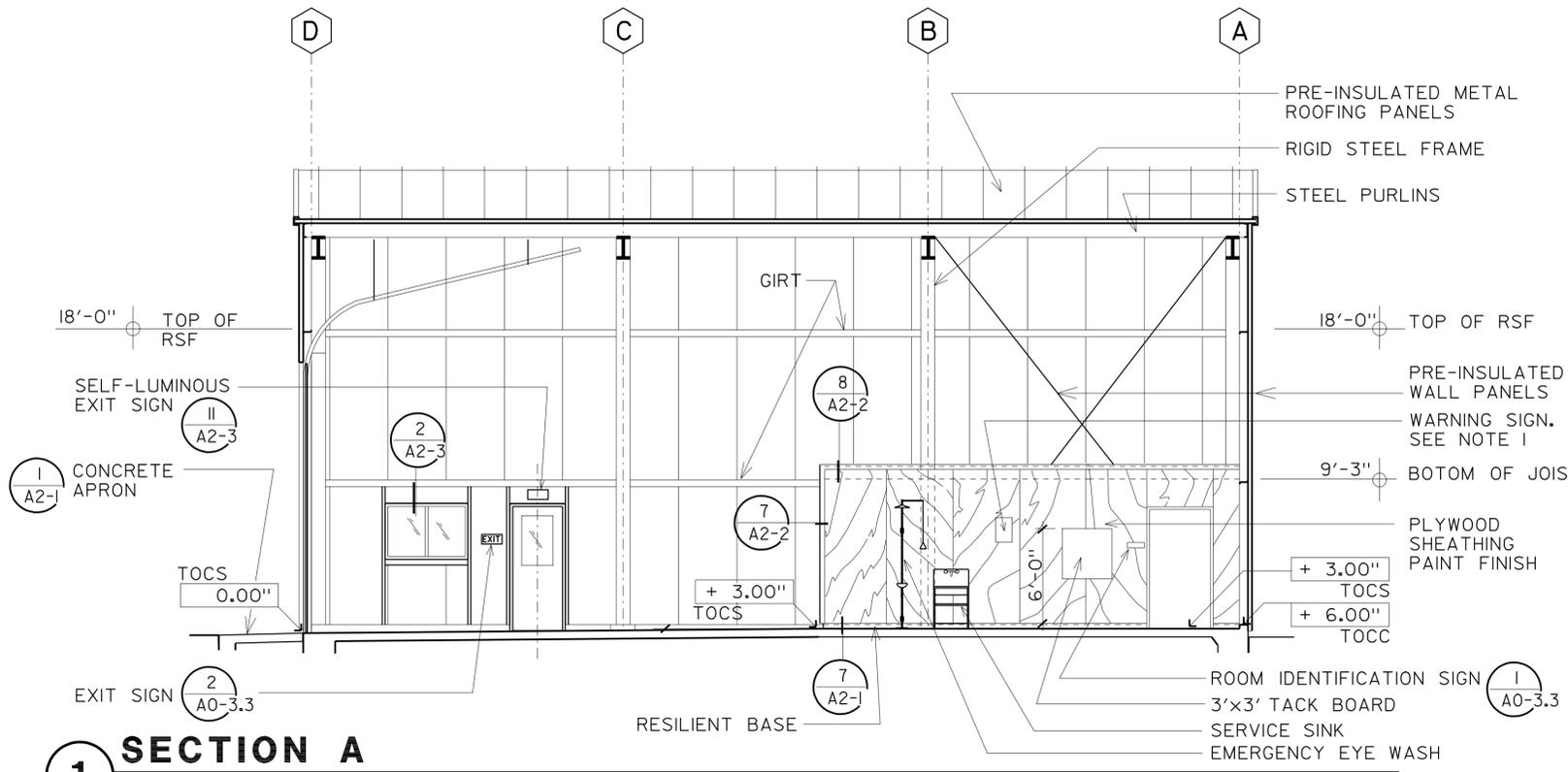
NO STORAGE PERMITTED ABOVE CEILING

ACCESSIBILITY DESIGN APPROVAL STAMP
 DOT / DES / OTA
09-315201
 DISTRICT - EA

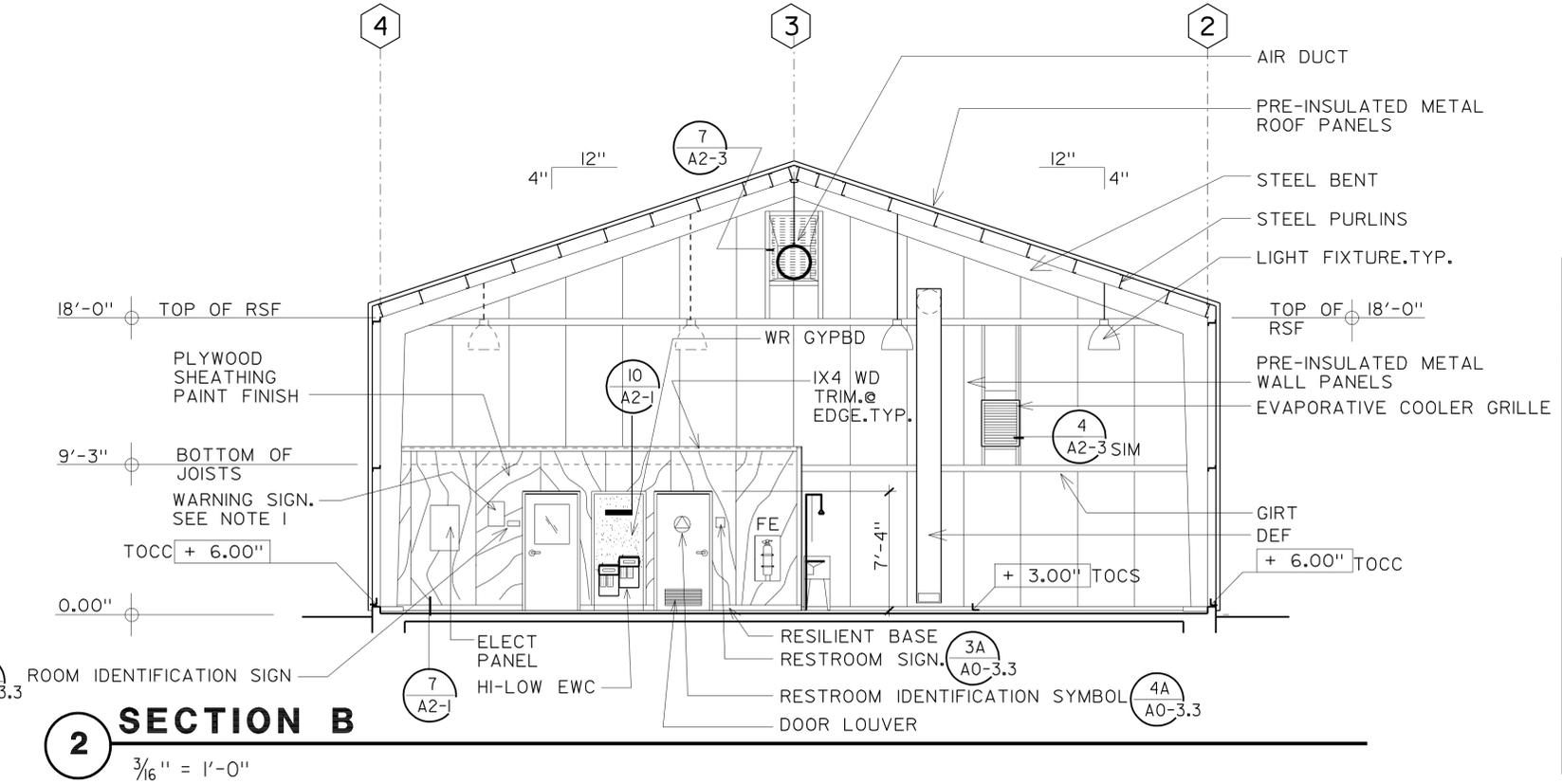
Reviewed by: *[Signature]*
 Y. A. WANG
 Date: 08/12/09

CALIFORNIA STATE FIRE MARSHAL APPROVED
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Reviewed by: *[Signature]*
 BILL ROBERTSON
 Approval date: 09/02/09



ROOM NAME	FLOOR	WALLS	CEILING	FINISHES
		SMOOTH CONCRETE CERAMIC TILES PRE-INSULATED METAL WALL PANELS CERAMIC TILES 3/4" PLYWOOD SHEATHING 5/8" GYPBD 5/8" WR GYPBD	4" RESILIENT BASE PRE-INSULATED CLADDING PANELS 1/2" GYPBD	HEIGHT ① NO FINISH WORK . CLEAN ② PAINT SEMI-GLOSS ENAMEL ③ CONCRETE HARDENER AND GREASE/OIL SEALER ④ TAPE, TEXTURE & PAINT
SERVICE BAY	③	①	①	
MECHANIC BAY	③	①	①	
PARTS ROOM	③	④	①	① ROOM IDENTIFICATION SIGN A0-3.3
UTILITY ROOM	③	② ④	①	④ ROOM IDENTIFICATION SIGN A0-3.3
TOILET		①	④	④ RESTROOM SIGN 3A A0-3.3



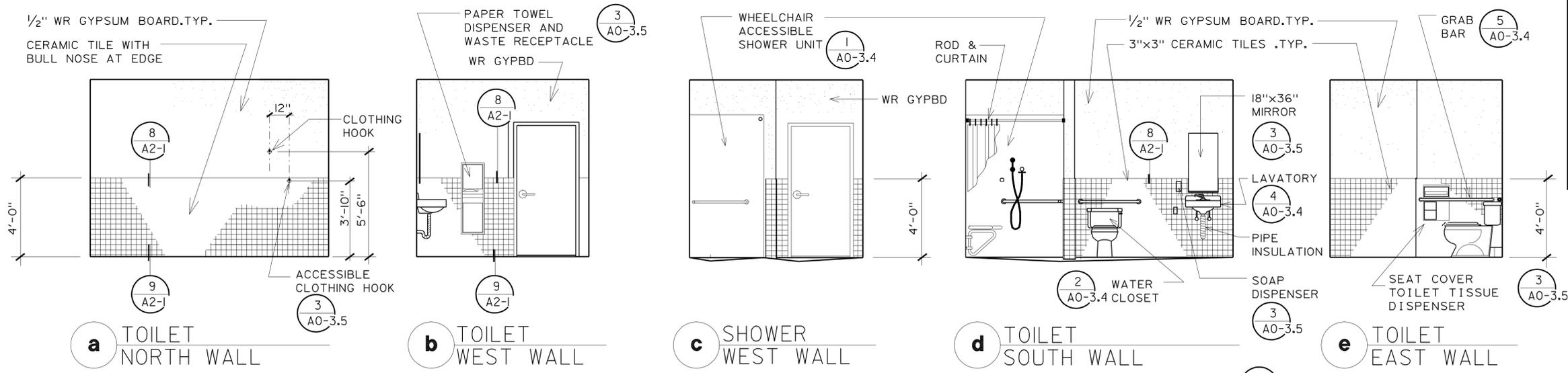
NO.	WIDTH x HEIGHT	THICK	MATERIAL	FINISH	FRAME	HRDWR GROUP	TYPE	DETAILS	NOTES
①	3'-0" x 7'-2"	1 3/4"	HOLLOW METAL	PAINT	PMF	1	C	① A2-3, ⑤ A2-3, ⑧ A2-3	SAFETY GLASS LITE ACCESSIBLE BUILDING ENTRANCE SIGN EXIT SIGNS 2/A0-3.3 & 11/A2-3 ⑥ A0-3.3
②	16'-0" x 16'-0"	—	STEEL	PAINT	—	—	A		INSULATED w OPERABLE LOUVERS
③	16'-0" x 16'-0"	—	STEEL	PAINT	—	—	A		INSULATED
④	3'-0" x 7'-2"	1 3/4"	HOLLOW METAL	PAINT	PMF	1	C	① A2-3, ⑤ A2-3, ⑧ A2-3	SAFETY GLASS LITE ACCESSIBLE BUILDING ENTRANCE SIGN EXIT SIGNS 2/A0-3.3 & 11/A2-3 ⑥ A0-3.3
⑤	3'-6" x 7'-2"	1 3/4"	HOLLOW METAL	PAINT	PMF	2	B	④ A2-2	ROOM IDENTIFICATION SIGN ① A0-3.3
⑥	3'-0" x 7'-2"	1 3/4"	HOLLOW METAL	PAINT	PMF	4	B	④ A2-2	UNISEX RESTROOM SIGN IDENTIFICATION SYMBOL 24"x12" LOUVER ④A A0-3.3 ③A A0-3.3
⑦	3'-0" x 7'-2"	1 3/4"	HOLLOW METAL	PAINT	PMF	3	C	④ A2-2	SAFETY GLASS LITE ROOM IDENTIFICATION SIGN ① A0-3.3

NOTE 1. SEE DETAIL 5/ A0-3.3, ROOM FINISH AND DOOR SCHEDULES FOR SIGNS TYPES AND LOCATIONS

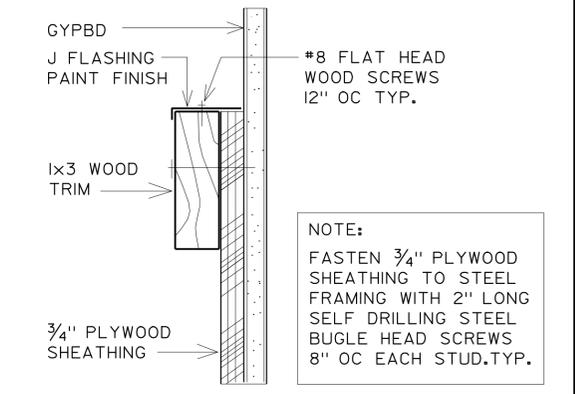
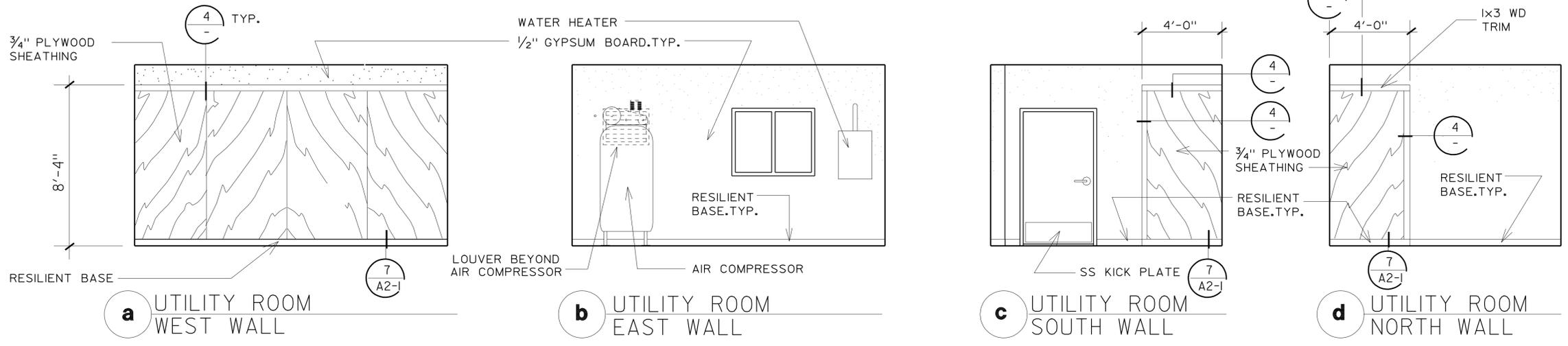
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	DETAILS BY GOFFREDO RIVECCIO CHECKED WARREN LAI		DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN		
CSFM FILE NUMBER : 01-26-11-0004	QUANTITIES BY DAVID FORBES CHECKED KEVIN OKINO	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	CU 09603 EA 315201	DISREGARD PRINTS BEARING EARLIER REVISION DATES	SHEET OF

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	93.8	16	82

	
LICENSED ARCHITECT	DATE 8/22/2009
1-11-10	
PLANS APPROVAL DATE	
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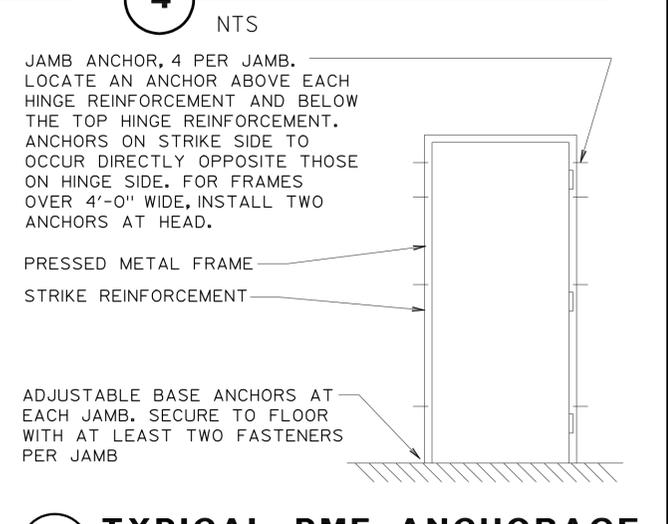
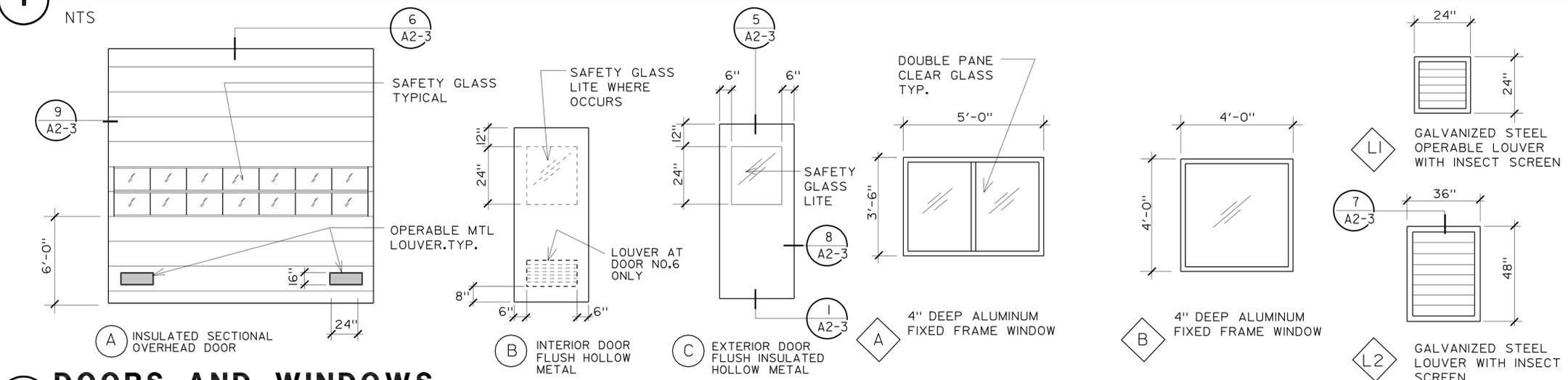


ACCESSIBILITY DESIGN APPROVAL STAMP DOT / DES / OTA 09-315201 DISTRICT - EA Reviewed by: <i>[Signature]</i> Y. A. WANG Date: 08/12/09	CALIFORNIA STATE FIRE MARSHAL APPROVED Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. The set of approved plans shall be available on the project site at all times. Reviewed by: <i>[Signature]</i> BILL ROBERTSON Approval date: 09/02/09
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1 INTERIOR ELEVATIONS

4 TRIM DETAIL



2 DOORS AND WINDOWS

3 TYPICAL PMF ANCHORAGE

NOTE: ALL WINDOWS SHALL RECEIVE HORIZONTAL BLINDS

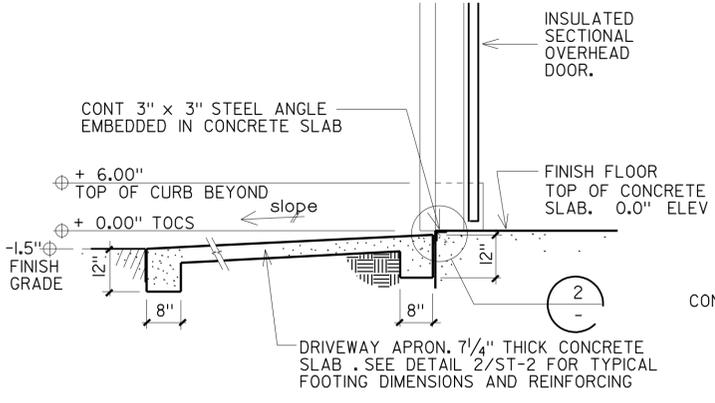
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	QUANTITIES BY	DAVID FORBES	CHECKED	KEVIN OKINO						
	CSFM FILE NUMBER : 01-26-II-0004				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	CU 09603 EA 315201	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	93.8	17	82

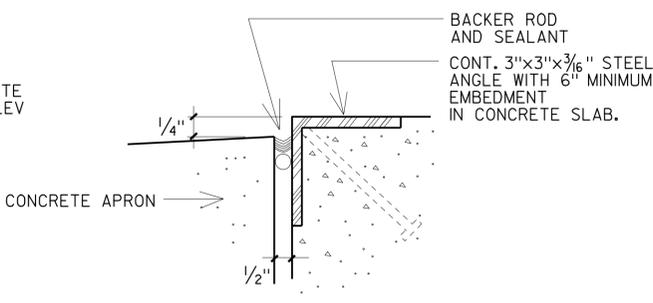
 LICENSED ARCHITECT		8/22/2009 DATE
1-11-10 PLANS APPROVAL DATE		
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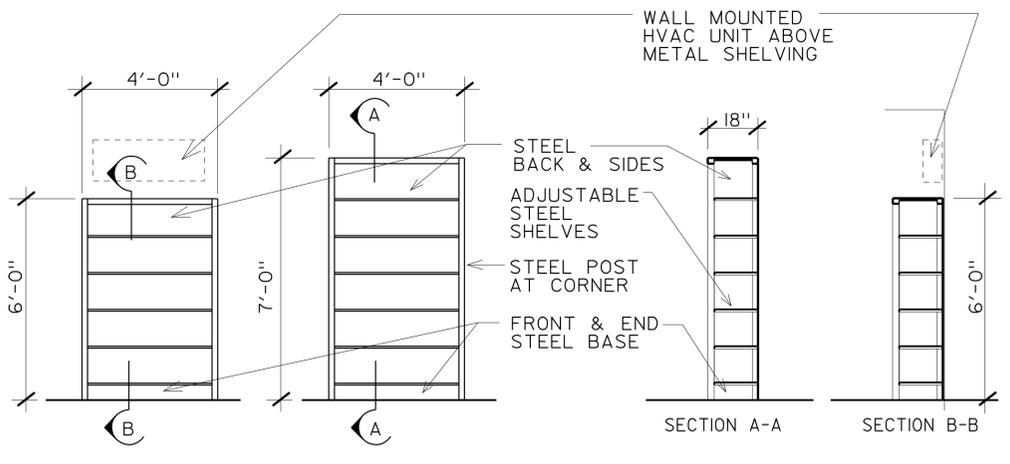
ACCESSIBILITY DESIGN APPROVAL STAMP DOT / DES / OTA 09-315201 DISTRICT - EA	CALIFORNIA STATE FIRE MARSHAL APPROVED Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. The set of approved plans shall be available on the project site at all times.
Reviewed by:  Y. A. WANG Date: 08/12/09	Reviewed by:  BILL ROBERTSON Approval date: 09/02/09



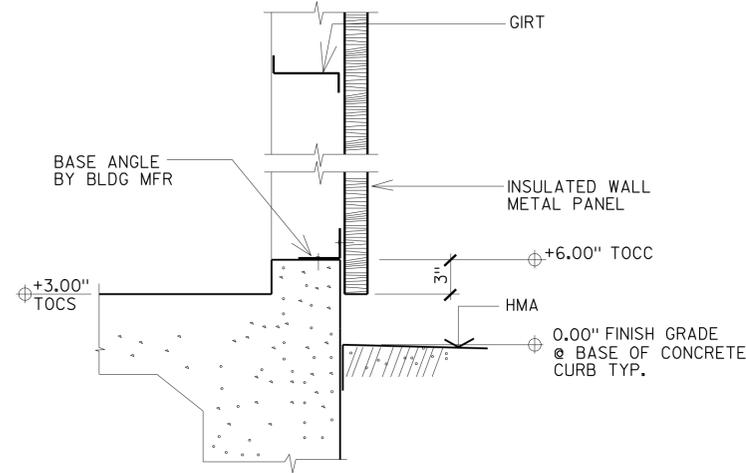
1 CONCRETE APRON SECTION
NTS



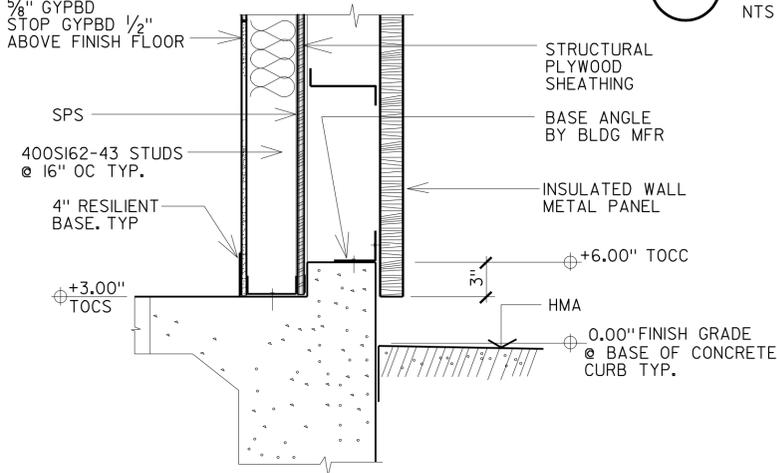
2 DOOR THRESHOLD
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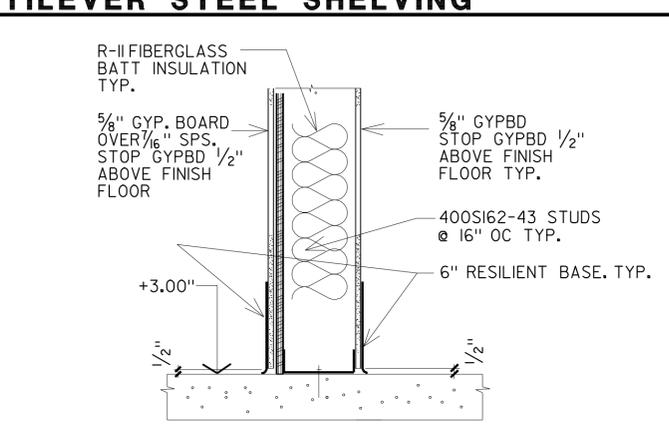
3 CANTILEVER STEEL SHELVING
NTS



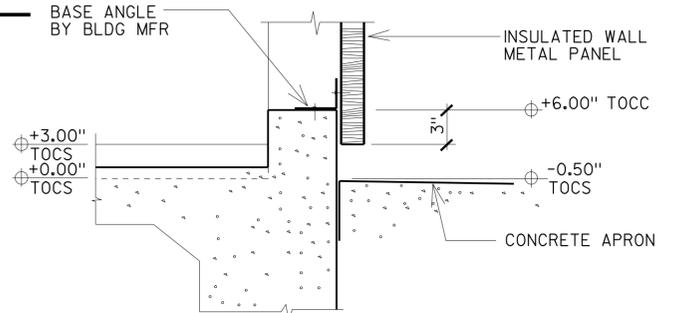
4 CURB DETAIL
NTS



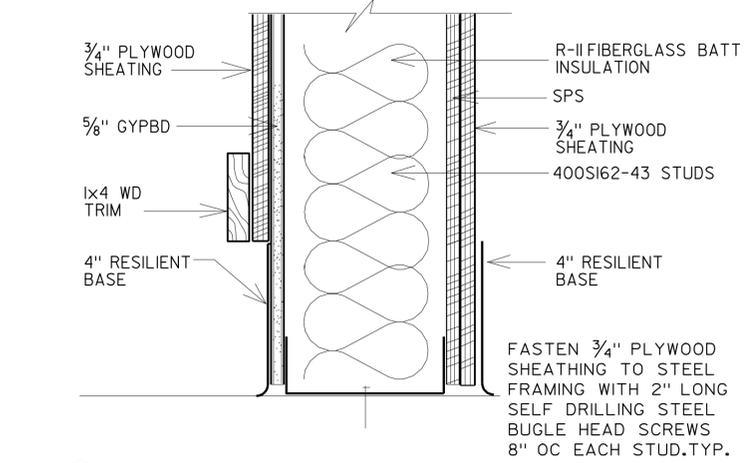
5 FOOTING DETAIL
NTS



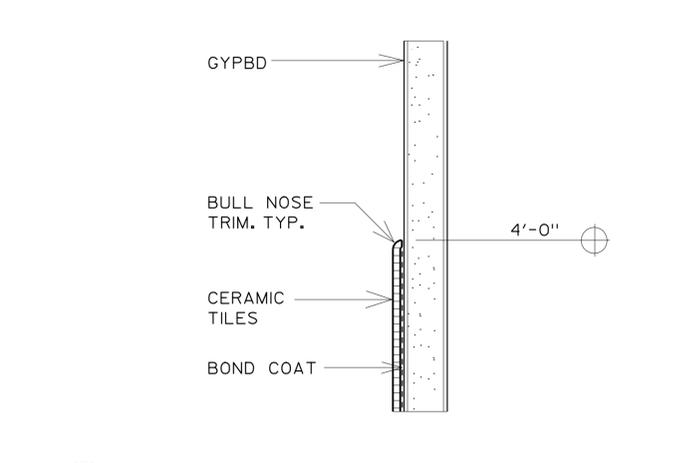
6 WALL DETAIL
NTS



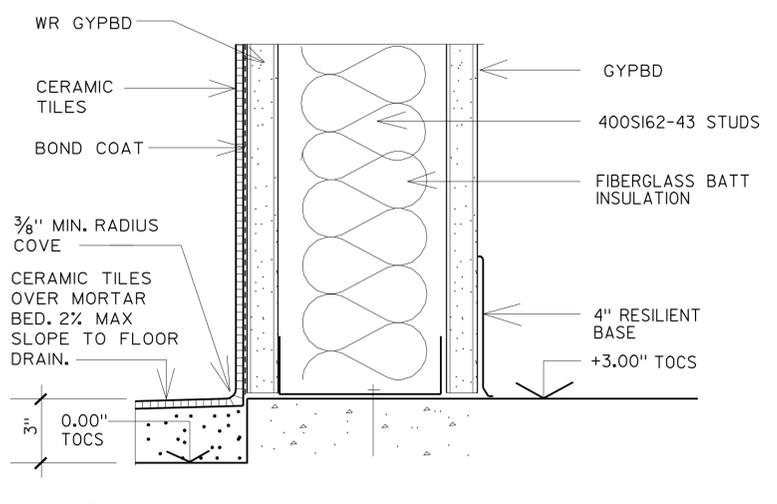
11 CURB DETAIL
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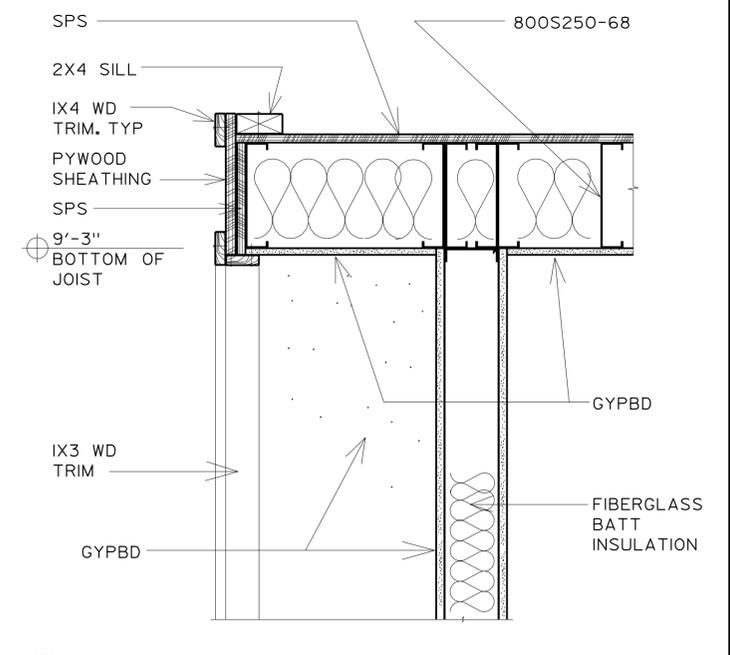
7 WALL DETAIL
NTS



8 WALL DETAIL
NTS



9 WALL DETAIL
NTS



10 WALL DETAIL
NTS

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	DETAILS BY GOFFREDO RIVECCIO CHECKED WARREN LAI	QUANTITIES BY DAVID FORBES CHECKED KEVIN OKINO	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 47M5717 POST MILE 93.8	REVISION DATES (PRELIMINARY STAGE ONLY)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

0 1 2 3

CU 09603
EA 315201

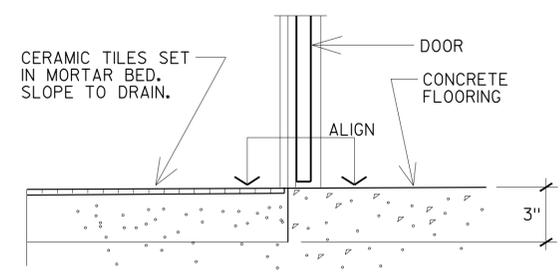
DISREGARD PRINTS BEARING EARLIER REVISION DATES

13-JAN-2010 13:12

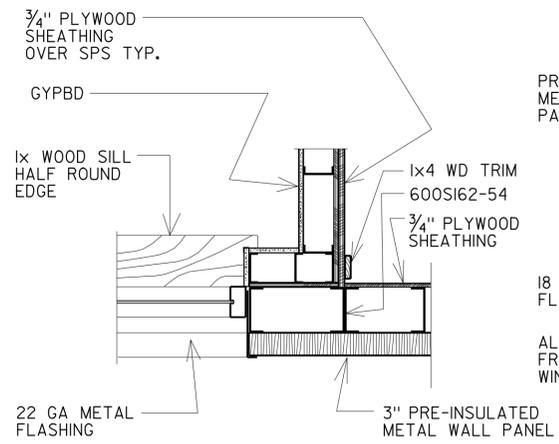
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	93.8	18	82

 LICENSED ARCHITECT DATE 8/22/2009		
1-11-10 PLANS APPROVAL DATE		

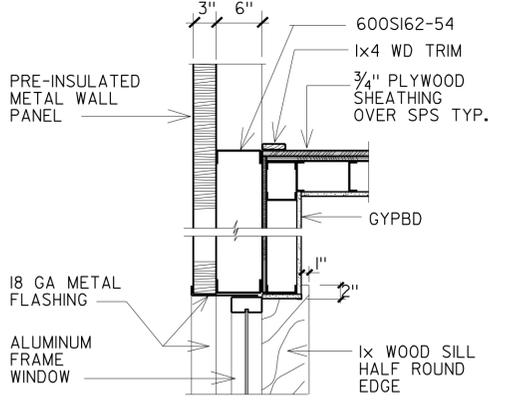
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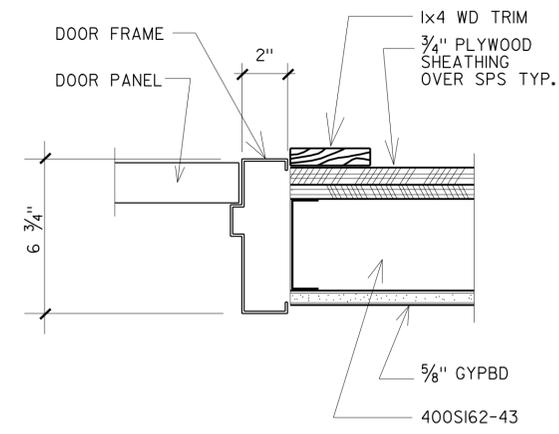
1 DOOR THRESHOLD NTS



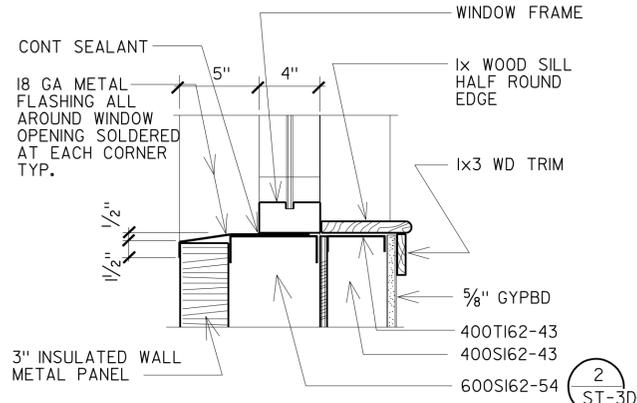
2 WALL / WINDOW DETAIL NTS



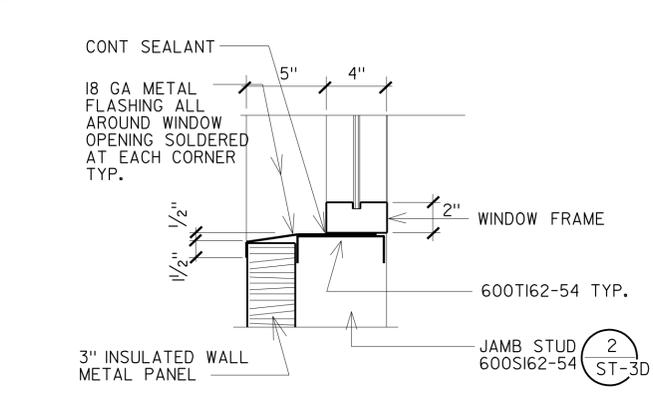
3 WALL / WINDOW DETAIL NTS



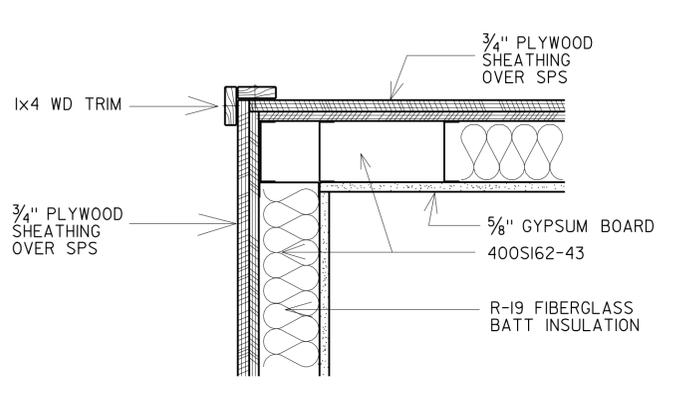
4 DOOR JAMB HEAD SIMILAR NTS



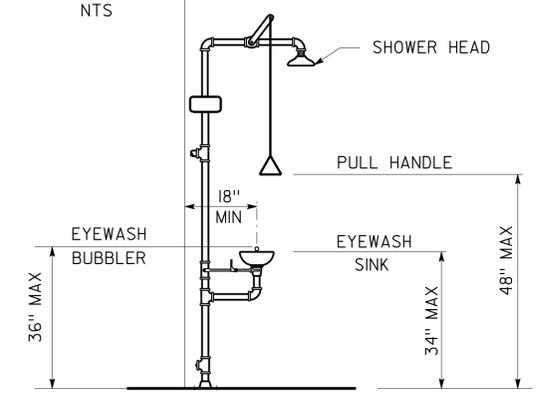
5 WINDOW SILL NTS



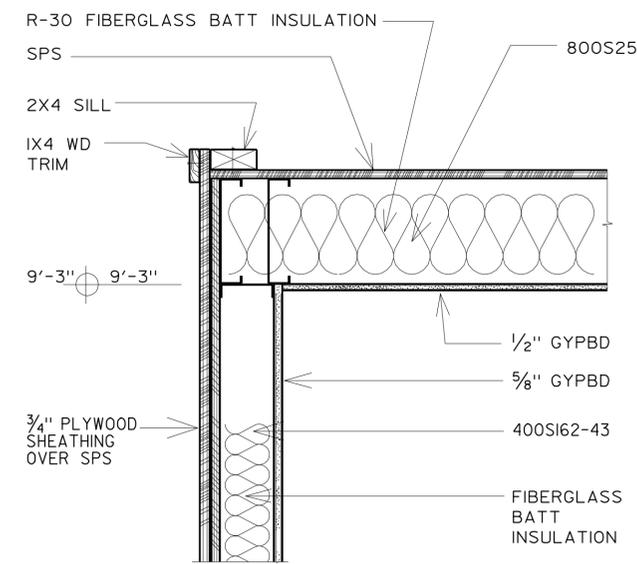
6 WINDOW SILL NTS



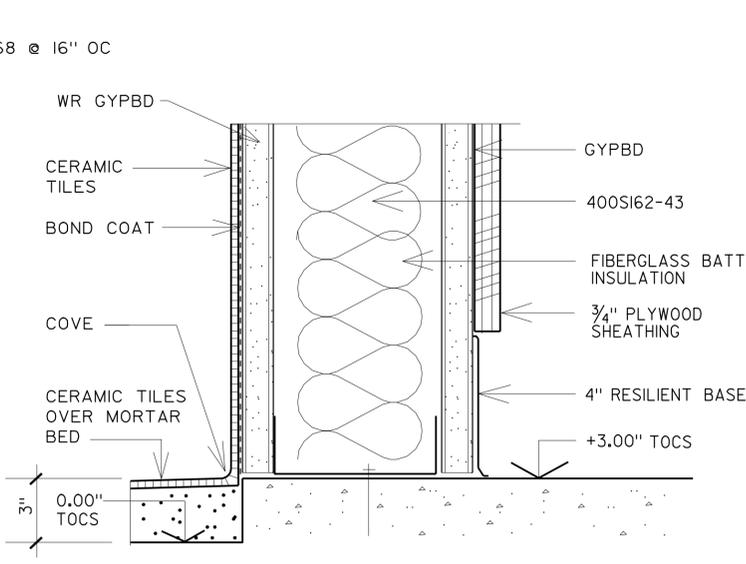
7 WALL DETAIL NTS



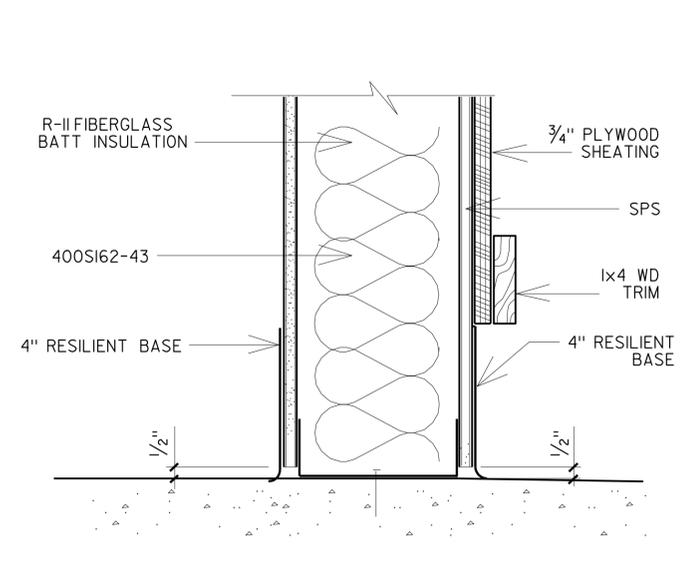
12 EMERGENCY EYEWASH / SHOWER NO SCALE



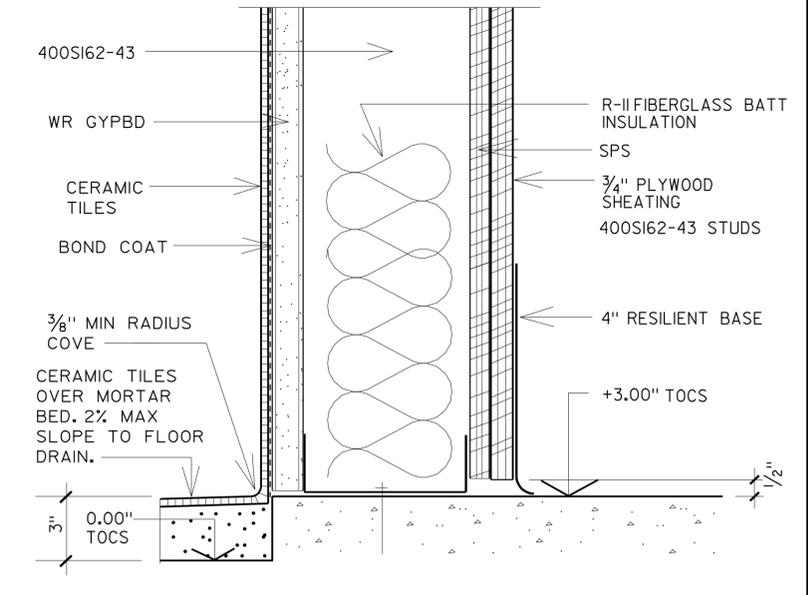
8 WALL / CEILING DETAIL NTS



9 WALL DETAIL NTS



10 WALL DETAIL NTS



11 WALL DETAIL NTS

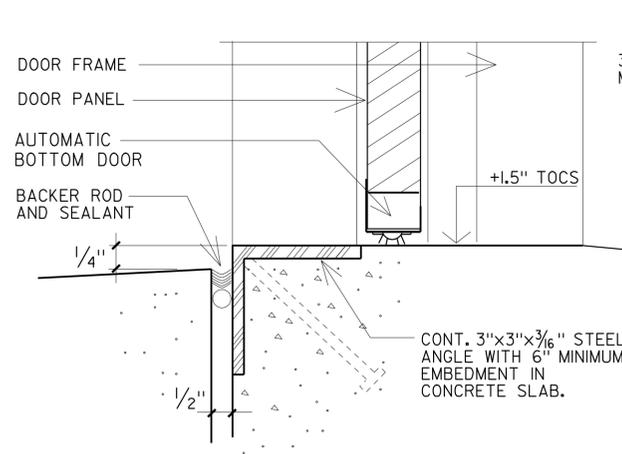
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	CSFM FILE NUMBER : 01-26-II-0004	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	CU 09603 EA 315201	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF		

13-JAN-2010 13:12

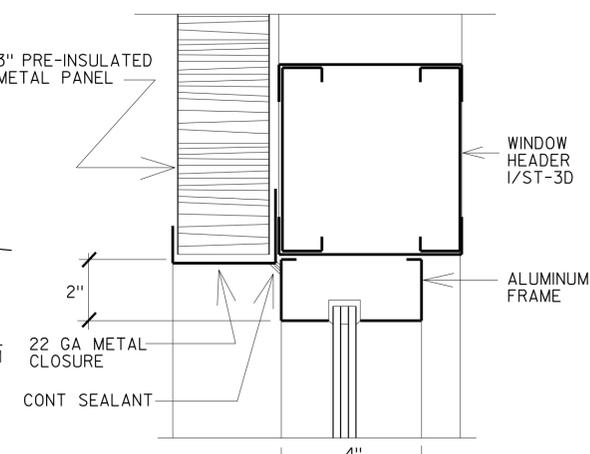
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09	Mno	395	93.8	19	82

 LICENSED ARCHITECT DATE 8/22/2009		
1-11-10 PLANS APPROVAL DATE		

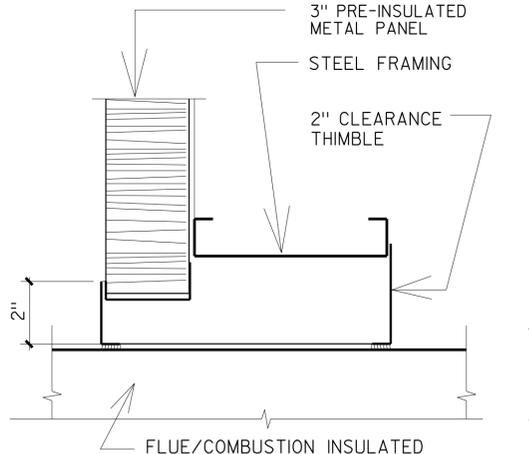
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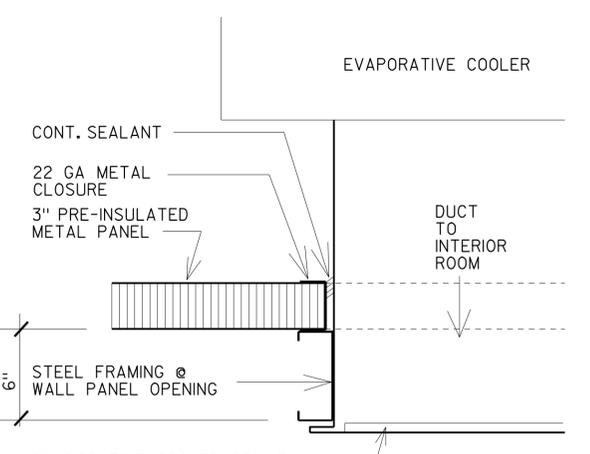
1 DOOR THRESHOLD
EXTERIOR DOOR NTS



2 WINDOW HEAD
JAMB SIMILAR NTS

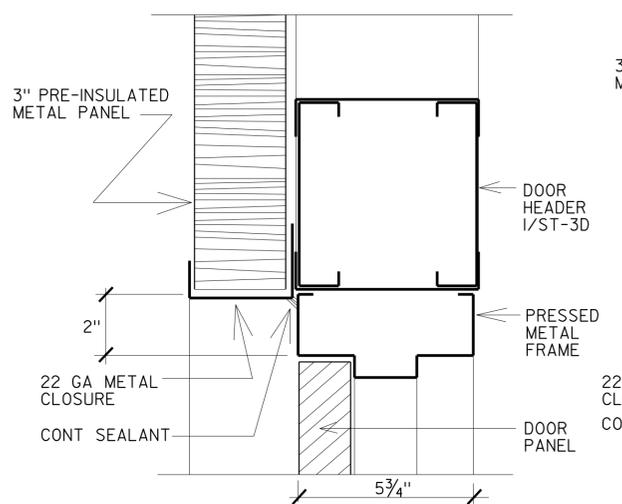


3 TYP. FLUE/COMBUSTION THRU WALL
NTS

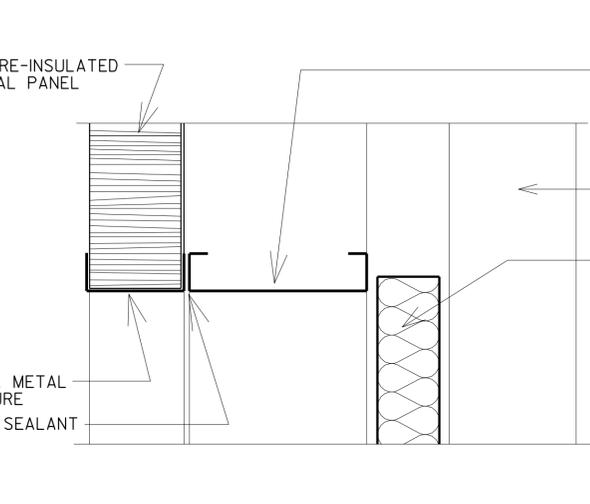


4 WALL DETAIL
JAMB DETAIL @ EVAPORATIVE COOLER HEAD AND SILL SIMILAR NTS

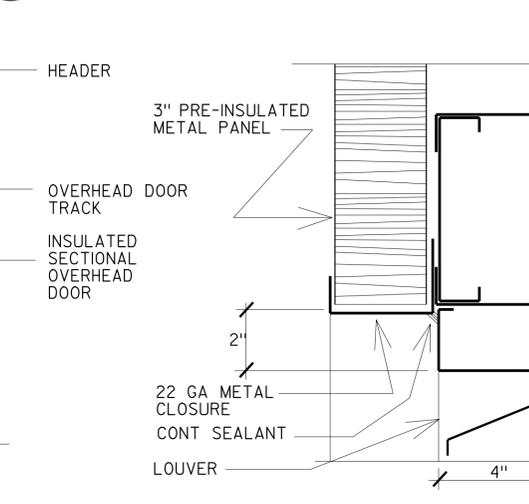
ACCESSIBILITY DESIGN APPROVAL STAMP DOT / DES / OTA 09-315201 DISTRICT - EA Reviewed by:  Date: 08/12/09	CALIFORNIA STATE FIRE MARSHAL APPROVED Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. The set of approved plans shall be available on the project site at all times. Reviewed by:  BILL ROBERTSON Approval date: 09/02/09
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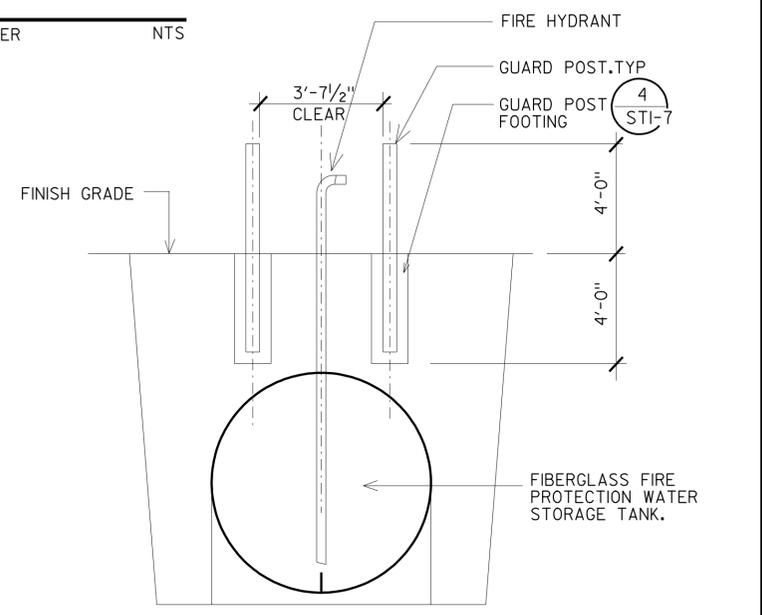
5 DOOR HEAD
NTS



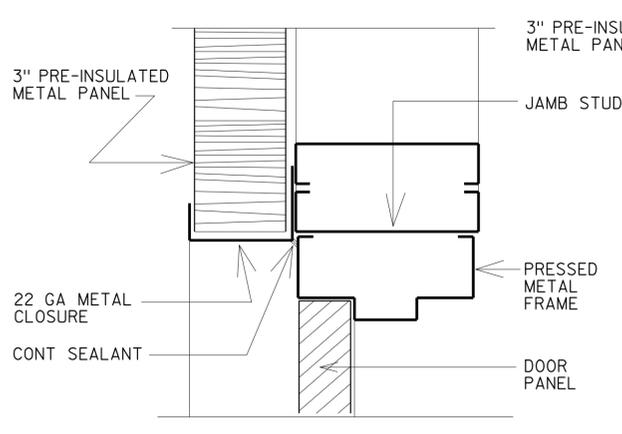
6 OVERHEAD DOOR HEAD DETAIL
NTS



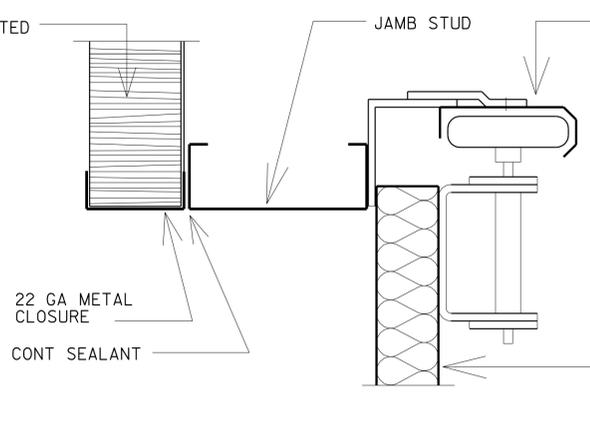
7 LOUVER HEAD DETAIL
JAMB, SILL SIMILAR NTS



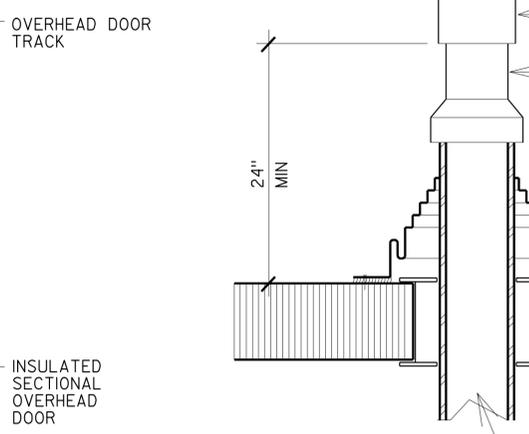
12 GUARD POSTS FOOTING DETAIL @ FIRE PROTECTION WATER STORAGE TANK
NTS



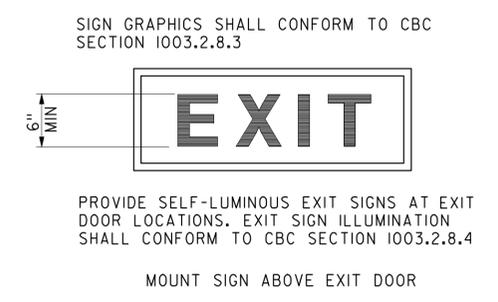
8 DOOR JAMB
NTS



9 OVERHEAD DOOR JAMB DETAIL
NTS



10 TYP. FLUE/COMBUSTION THRU ROOF
NTS

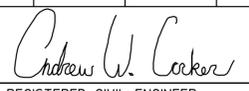


11 SELF-LUMINOUS EXIT SIGN
NTS

a2_03.dgn DS OSD Imperial Rev. 10/07 13-JAN-2010 13:12	DESIGN BY GOFFREDO RIVECCIO CHECKED WARREN LAI	CHECKED WARREN LAI	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 47M5717 POST MILE 93.8	SONORA JUNCTION MAINTENANCE STATION MECHANIC'S WORK FACILITY DETAILS	SHEET A2-3
	DETAILS BY GOFFREDO RIVECCIO CHECKED WARREN LAI	CHECKED WARREN LAI		QUANTITIES BY DAVID FORBES CHECKED KEVIN OKINO	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		CU 09603 EA 315201

13-JAN-2010 13:12

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	93.8	20	82

 05-02-09
 REGISTERED CIVIL ENGINEER DATE

Andrew W. Corker
 No. 64186
 Exp. 6-30-11
 CIVIL
 STATE OF CALIFORNIA

1-11-10
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	Jt	Joint
Bldg	Building	LOL	Layout Line
Blkg	Blocking	LPS	Low Profile Screw
BN	Boundary Nailing	LVL	Laminated Veneer Lumber
Btm	Bottom	m	Meter
CB	Carriage Bolt	Max	Maximum
CFS	Cold Form Steel	MEA	Mechanical Expansion Anchor
CIDH	Cast In Drilled Hole	Mech	Mechanical
CJ	Control Joint	Mfr	Manufacturer
Clr	Clear	mm	Millimeter
CMU	Concrete Masonry Unit	Min	Minimum
Conc	Concrete	MIW	Malleable Iron Washer
Const	Construction	OC	On Center
Cont	Continuous	OG	Original Grade
CP	Complete Penetration Weld	OH	Opposite Hand
Dbl	Double	Opt	Optional
DF	Douglas Fir	OSB	Oriented Strand Board
Dia	Diameter	P	Pitch
DIP	Ductile Iron Pipe	PDF	Powder Driven Fastener
DN	Diameter Nominal	Plwd	Plywood
do	Ditto	PT	Pressure Treated
(E)	Existing	PW	Puddle Weld
Ea	Each	PWB	Prefabricated Wood I Beam
EL	Elevation	RCP	Reinforced Concrete Pipe
Elec	Electrical	ReInf	Reinforced, Reinforcing
Embed	Embedment	Req'd	Required
EN	Edge Nail	SDSTS	Self Drill, Self Tap Screw
Eq	Equal	Sim	Similar
Exp	Expansion	SPS	Structural Plywood Sheathing
FDGM	Free Draining Granular Material	Sq	Square
FG	Finish Grade	Stagg	Staggered
FL	Flow Line	Std	Standard
Fir	Floor	SW	Stud Weld
FN	Face (Field) Nail	Sym	Symmetrical
FOC	Face of Concrete	T&G	Tongue-and-Groove
FOM	Face of Masonry	TN	Toe Nail
FOS	Face of Stud	TS	Tube Steel
Ftg	Footing	Typ	Typical
Ga	Gage	UON	Unless Otherwise Noted
Galv	Galvanized	Vert	Vertical
GLM	Glue Laminated Member		
Gyp Bd	Gypsum 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		Structural Backfill
	Length Shearwall Schedule Symbol Reference		Structural Excavation
	Glue Laminated Member Section		Original Ground
	North Arrow		Limits of Structural Backfill (shown on plan view)
	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 DRAWING DATE 1-04		DESIGN BY <i>Sean Samal</i> CHECKED <i>George E. Rowe</i> SUBMITTED BY <i>Sean Samal</i>		STANDARD DRAWING CHECKED <i>Sean Samal</i> DESIGN ENGINEER		APPROVED <i>R.E. Travis</i> DESIGN SUPERVISOR		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN		BRIDGE NO. 47M5717 POST MILE		SONORA JUNCTION MAINTENANCE STATION MECHANICS WORK FACILITY				SHEET ST-1 OF	
DOES SD Imperial Rev. 9/02								ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		CU 09603 EA 315201		DISREGARD PRINTS BEARING EARLIER REVISION DATES → 1-16-04				REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF	

13-JAN-2010 13:13

st_00.dgn

A

FRAMING NOTES

- Dimensions are typically shown to face of stud for exterior walls, to centerline of stud at interior walls, and to centerline of openings. Vertical dimensions are typically shown from rough floor or slab to top of plate or to underside of lintels. Dimensions shown as "clear" are from surface to surface.
- Bearing, shear and exterior walls shall be sheathed with 5/8" structural plywood sheathing.
- All roofs shall be sheathed with 5/8" structural plywood sheathing.
- Plywood for floors and roofs shall be placed face grain perpendicular to supports. Where possible, plywood shall be placed in full sheets and staggered one-half sheet length. Any partial plywood sheet shall not be less than 2'-0" in length or width unless fully blocked. Plywood for wainscots, siding and wall sheathing may be placed parallel to framing and with the C-C plugged face exposed. See Detail 2, sheet ST-1B.
- All wood members shall be Douglas Fir-Larch (DF) quality grade stamped. Grade stamps shall indicate compliance with the grading requirements of WWSA, WCLIB or other approved lumber inspection agency.
- Structural plywood sheathing shall be APA grade stamped plywood conforming to Voluntary Product Standard PSI, Grade C-D, Exposure 1. Thickness and span rating shall be as shown on the plans.
- Wood grades (unless otherwise noted):
 - For horizontal members:

Joists & Rafters	Grade *2
Beams & Stringers	Grade *1
Ledgers	Grade *1
 - For vertical members:

2"x4" Studs	Construction Grade
2"x6" & larger studs	Grade *2
Posts & Timbers	Grade *1
 - Glue laminated beams:

Simple spans	24F-V4 DF/DF
Cantilevers & Continuous	24F-V8 DF/DF
- Glue laminated members shall be engineered, stress rated and factory laminated with adhesive for wet use.
- Exposed members shall be "architectural appearance" grade and non-exposed members shall be "industrial appearance" grade.
- All wood in direct contact with concrete or masonry shall be pressure treated Douglas Fir-Larch.
- Joists framed into the side of wood girders shall be supported by joist hangers.
- Joists shall be supported laterally at the ends and at each support by solid blocking or other approved means except where the ends of joists are nailed to a header, band or rim joist or to an adjoining stud. Solid blocking shall not be less than 2"x in thickness and the full depth of the joist.
- Joists and roof rafters 1'-0" or deeper shall have full depth 2"x thick solid blocking at 8'-0" maximum spacing.
- Provide 2"x blocking to secure fixtures shown on the project plans.
- Joists under and parallel to bearing walls shall be doubled.
- When there are multiple holes and notches in one structural element or when there are holes and notches occurring in more than two consecutive structural elements, the Engineer's approval is required, unless the details are shown on plans.
- Notches or cuts in bearing or shear wall studs may be to a depth not exceeding 25% of its width. Wood studs in non-bearing and non-shear walls supporting only their weight may be notched or cut to a depth not greater than 40% (See note 16 above).
- Bored hole diameters shall not exceed 40% of the stud width in bearing walls and 60% in non-bearing walls. The top plates may not be bored or cut, without the Engineer's approval. Neither bearing nor shear wall top plates may be bored greater than 40%, unless detailed on the plans. Holes shall not be closer than 5/8" to the edge of the stud. (See note 16 above)
- When it is necessary to cut the sole plate, sill plate or wood stud for plumbing, heating or other pipes, a 1/16" thick x 1/2" wide galvanized metal stud shoe plate shall be fastened w/6-16d to the plate across the opening.
- Equivalent metal bridging or ties may be submitted to the Engineer for approval.

B

MINIMUM NAILING SCHEDULE

- All structural nailing shall be common wire. Alternate fasteners may be substituted as approved by the Engineer.
- For wood to wood joints, the spacing of nails shall not be less than the required nail penetration. Edge or end distances shall not be less than 1/2 the required nail penetration. Where pre-drilling is required to avoid splitting of the wood, the hole diameter shall not exceed three-fourths of the nail diameter.
- Nailing not noted below or on the project plans shall be a minimum of 2 nails at each contact, 8d for 1"x members and 16d for 2"x members.
- Joists or Rafters:
 - Bearing (sill, girder, top plate) Toe Nail 3-8d
 - Laps (parallel members over walls or beams) Face Nail 4-16d
For each additional 3" member depth beyond 6" member add 2-16d
 - Rim joist to floor joist, End Nail 2-16d
For each additional 4" member depth beyond 8" member add 1-16d
 - Rim joist to top plate, Toe Nail 8d @ 6" OC
 - Double joists under bearing walls, staggered Face Nail. 16d @ 1'-0" OC
- Studs:
 - Double studs, Face Nail 16d @ 2'-0" OC
 - Top plate to stud, End Nail 2-16d
 - Stud to sole plate, Toe Nail 3-16d or 4-8d
 - Sole plate to stud, End Nail 2-16d
 - Stud to continuous header, Toe Nail 3-16d or 4-8d
 - Built-up corner studs, Face Nail 16d @ 2'-0" OC
- Plates:
 - Top plate doubled, Face Nail 16d @ 1'-4" OC
 - Top plate intersection, Face Nail 2-16d
 - Sole plate to rim joist or blocking, Face Nail 16d @ 1'-4" OC
 - Sole plate to floor framing, Face Nail 16d @ 1'-4" OC
- Blocking:
 - To studs, joists or rafters, Toe Nail 3-16d or 4-8d
or End Nail 2-16d
For each additional 4" member depth beyond 8" member add, Toe Nail 2-8d
or End Nail 1-16d
 - To plates, Toe Nail 16d @ 1'-0" OC
- 2" Subfloor to each joist or girder one blind and one Face Nail. 2-16d
- Structural Plywood Nailing:
 - Spacing at subflooring, decking, roof and wall structural plywood sheathing to framing:

LOCATION	3/8" Plwd	1/2" - 1" Plwd
At supported edges (edge nailing) & over bearing (beams, girders, walls, etc.)	8d @ 6" OC	10d @ 6" OC
At intermediate supports (field nailing)	8d @ 6" OC	10d @ 1'-0" OC
Where bearing is 4'-0" or greater (field nailing)	_____	10d @ 6" OC
 - Structural plywood edge nailing shall be staggered at supports, Detail 2, Sheet ST-1B; at double plates, Detail 3, Sheet ST-1B; and at double studs located at wall intersections and corners, Details 9A and 9B, Sheet ST-1B.
 - Decking and Underlayment: Use deformed shank nail (see Sheet ST-1B for nail size and spacing)
 - Panel siding to framing: Use zinc coated nail (see Sheet ST-1B for nail size and spacing)
- Finish Plywood Nailing (non-structural):
 - Finish plywood to framing where the thickness is 1/2" or less:
 - Finish nail at supported edges (edge nailing) 6d @ 6" OC
 - Finish nail at intermediate supports (field nailing) 6d @ 1'-0" OC
- Gypsum Sheathing (Structural):
 - Wall structural gypsum board sheathing to framing where the thickness 5/8" or less:
 - Cooler nail, parker nail or wallboard nail with a flat or concave head and diamond point at all edges and intermediate supports (field nailing) 6d @ 4" OC

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	93.8	21	82

Andrew W. Corker 05-02-08
REGISTERED CIVIL ENGINEER DATE

Andrew W. Corker No. 64186 Exp. 6-30-11
REGISTERED PROFESSIONAL ENGINEER CIVIL STATE OF CALIFORNIA

1-11-10
PLANS APPROVAL DATE

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C

MECHANICAL FASTENER NOTES

- The clearance holes for lag screw shanks shall be the same diameter and depth as the unthreaded shank. The lead hole for the threaded portion shall be of a diameter equal to 60% of the shank diameter for screws up to 1/2" diameter, and 75% of the shank diameter for larger lag screws. The lead hole shall be at least the length of the threaded portion.
- Lag screws shall be turned into pre-drilled holes and not be driven.
- All bolts and lag screws shall be tightened and retightened before closing in, or at completion of job.
- All bolts and lag screws shall be provided with metal washers under heads and nuts which bear on wood.

MINIMUM WASHER FOR BOLTS & LAG SCREWS		
Size	Malleable Iron Washer	Steel Plate Washer
1/2" Ø	2 1/2" Ø x 5/16"	2" x 2" x 1/4"
5/8" Ø	2 3/4" Ø x 5/16"	2" x 2" x 1/4"
3/4" Ø	3" Ø x 7/16"	2" x 2" x 1/4"
7/8" Ø	3 5/16" Ø x 3/8"	3" x 3" x 1/4"
1" Ø	4" Ø x 1/2"	3" x 3" x 1/4"

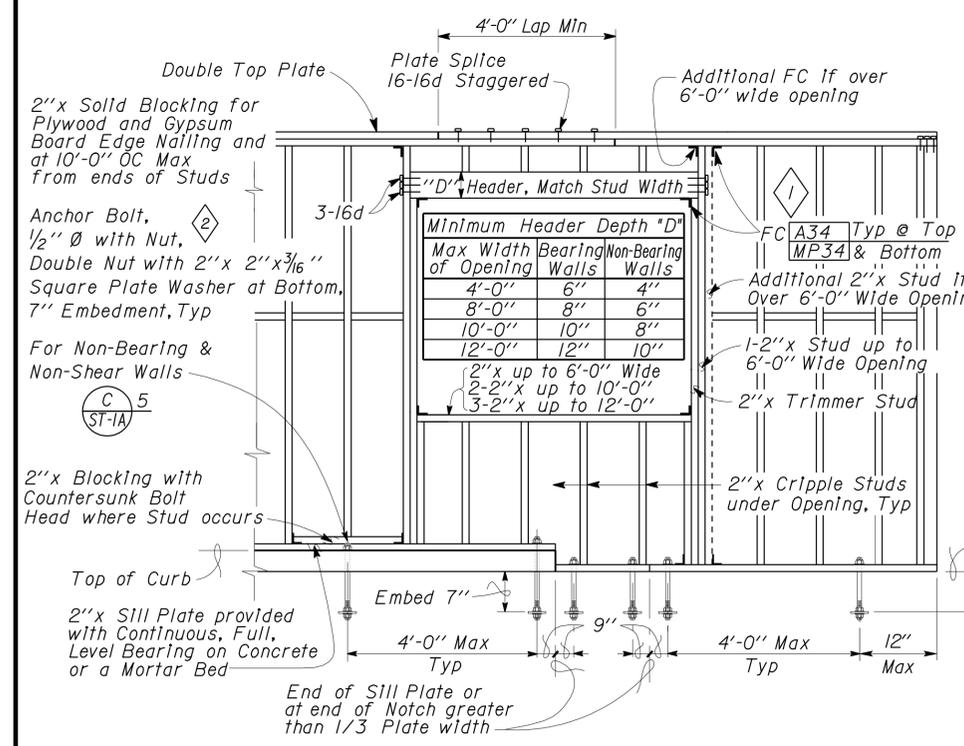
Place under Bolt Heads & Nuts bearing on Wood

- Fastener alternatives for non-bearing and non-shear walls: Two minimum per member and at 9" from ends.
 - 1/8" Ø Powder driven anchor with 1" penetration @ 2'-0" OC.
 - 1/4" Ø expansion anchorage device embedded 1 1/2" minimum at 2'-0" OC.
 - 1/2" Ø anchor bolt with 2 1/2" embedment @ 4'-0" OC.
- Equivalent mechanical fasteners may be submitted to the Engineer for approval.

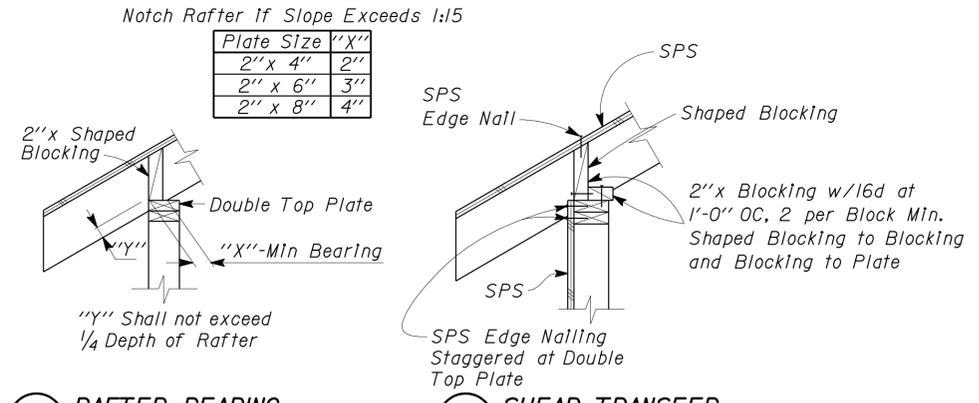
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DRAWING DATE 1-04	DETAILS BY [Signature]	CHECKED BY [Signature]	DESIGN SUPERVISOR	DEPARTMENT OF TRANSPORTATION	STRUCTURAL DESIGN		WOOD FRAMING STANDARD - NOTES	
DOES SD Imperial Rev. 9/02				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	CU 09603 EA 315201	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF

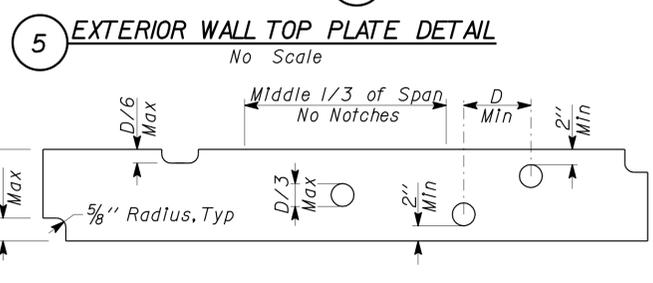
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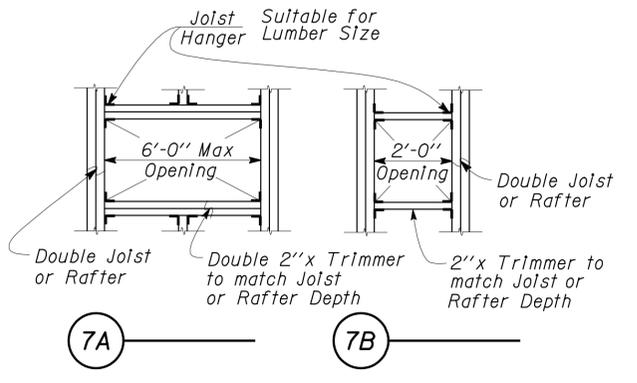
1 TYPICAL WALL AND OPENING FRAMING
No Scale



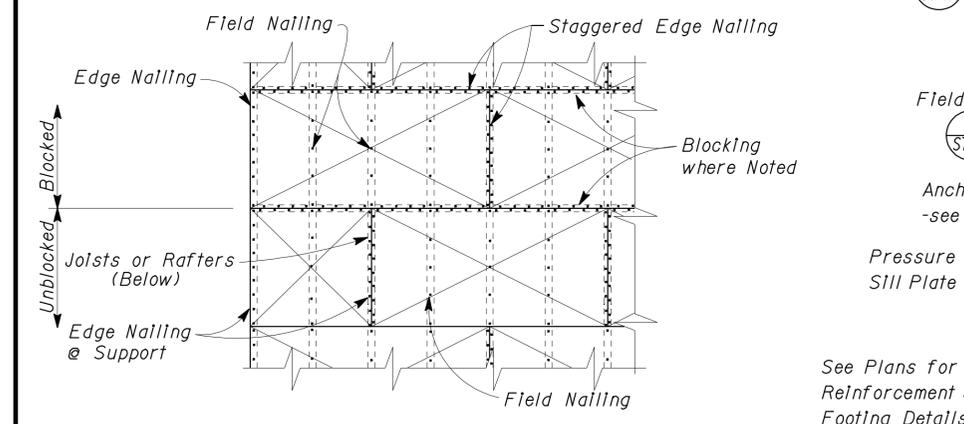
5A RAFTER BEARING **5B SHEAR TRANSFER**



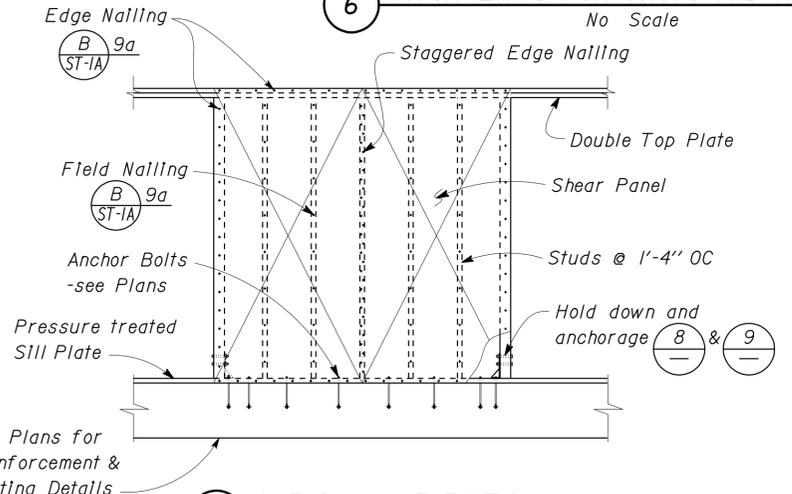
5 EXTERIOR WALL TOP PLATE DETAIL
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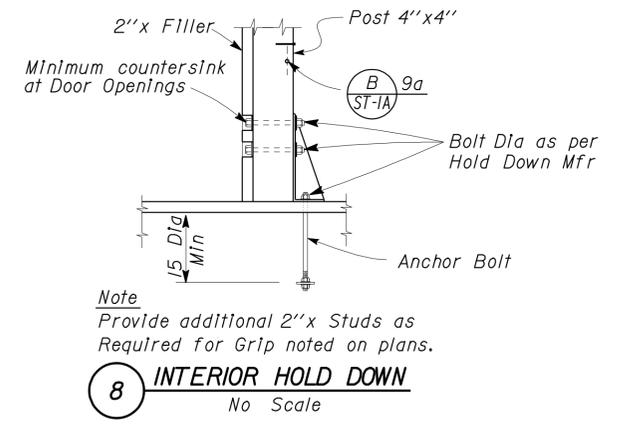
7 FRAMING AT OPENINGS
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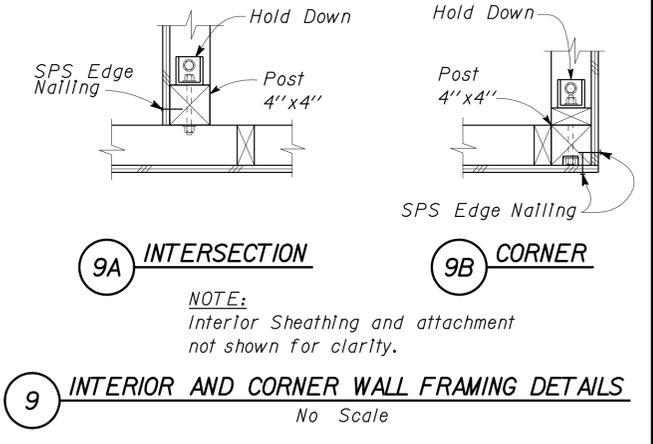
2 STRUCTURAL PLYWOOD LAYOUT
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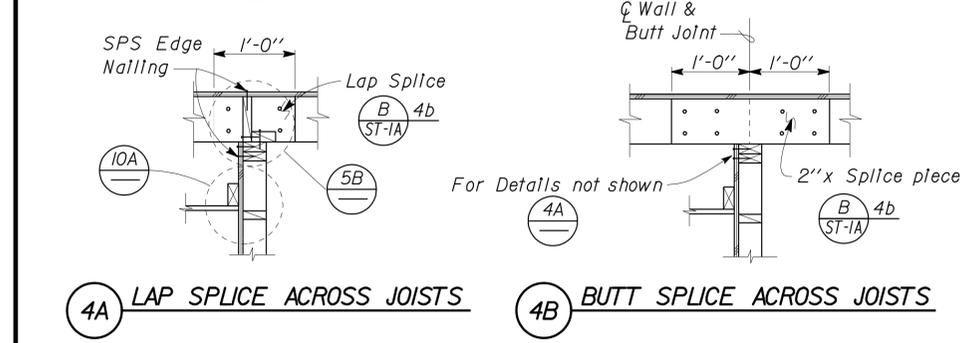
3 SHEAR WALL ELEVATION
No Scale



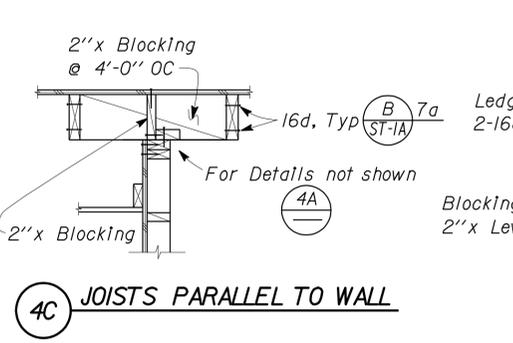
8 INTERIOR HOLD DOWN
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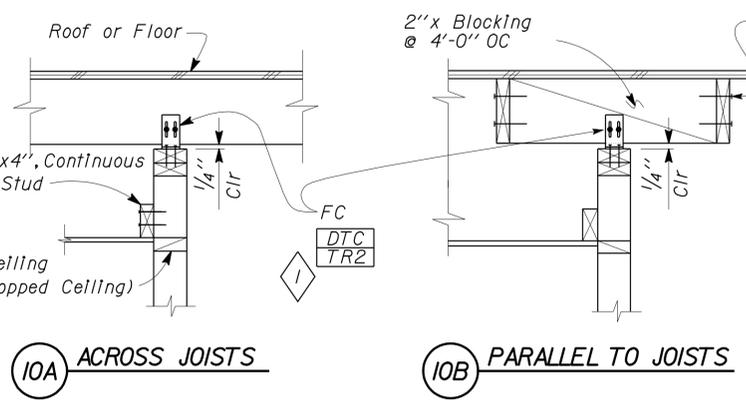
9 INTERIOR AND CORNER WALL FRAMING DETAILS
No Scale



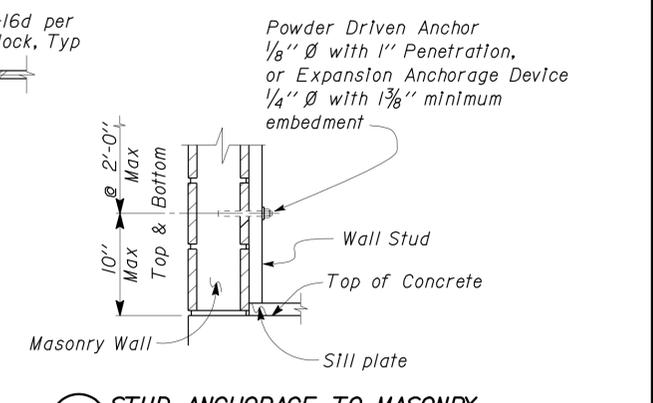
4 JOIST LAYOUT AT TOP OF BEARING AND SHEAR WALL
No Scale



4C JOISTS PARALLEL TO WALL
No Scale



10 NON-BEARING WALL TOP PLATE CONNECTION
No Scale



11 STUD ANCHORAGE TO MASONRY
No Scale

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

FILE NO. XS-25-5.1	DESIGN BY Sean Sorel	CHECKED BY [Signature]	APPROVED BY RE Travis
DRAWING DATE 1-04	DETAILS BY Peter F. von Sawoy	CHECKED BY [Signature]	DESIGN SUPERVISOR
SUBMITTED BY Sean Sorel		DESIGN ENGINEER	

Revision - 11-02-2006 Updated USP connector ID.
Anchor Bolt size & defn'tion.

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 47M5717 POST MILE	SONORA JUNCTION MAINTENANCE STATION MECHANICS WORK FACILITY WOOD FRAMING STANDARD - DETAILS	SHEET ST-1B
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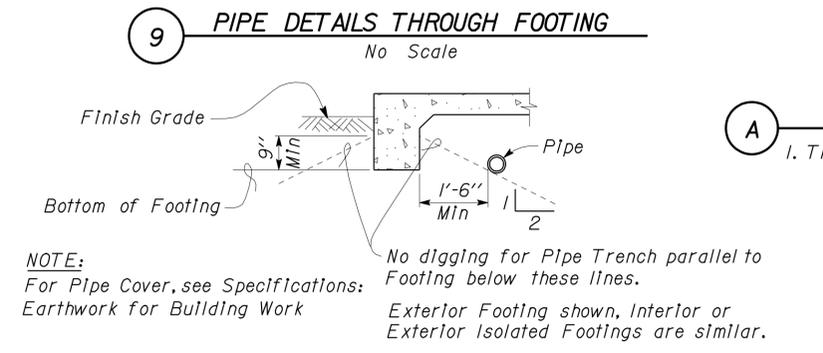
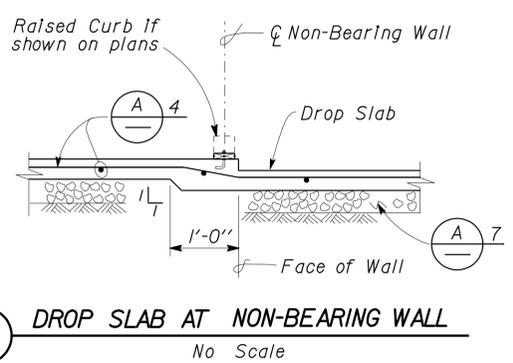
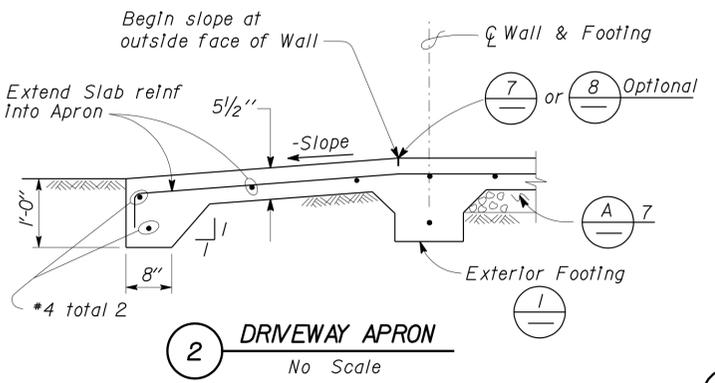
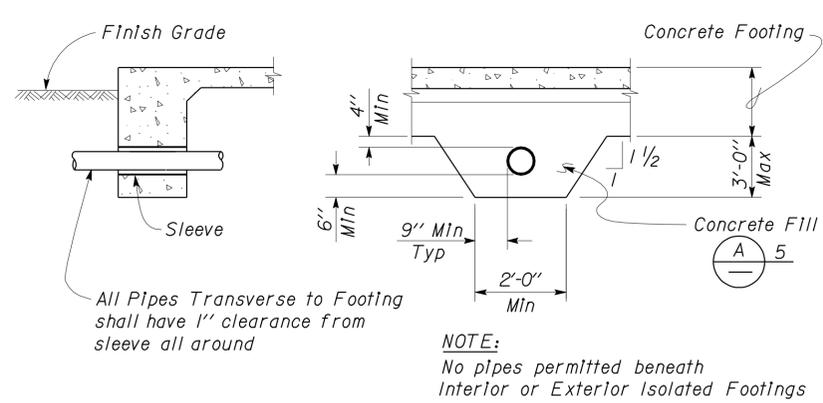
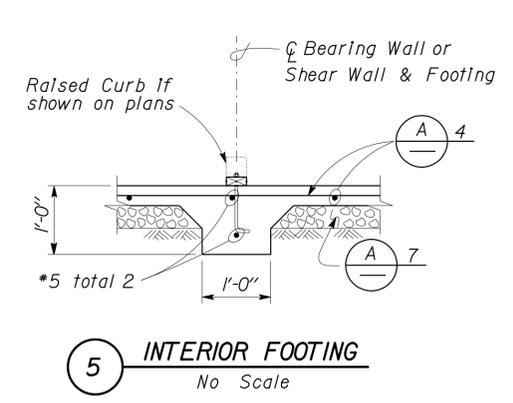
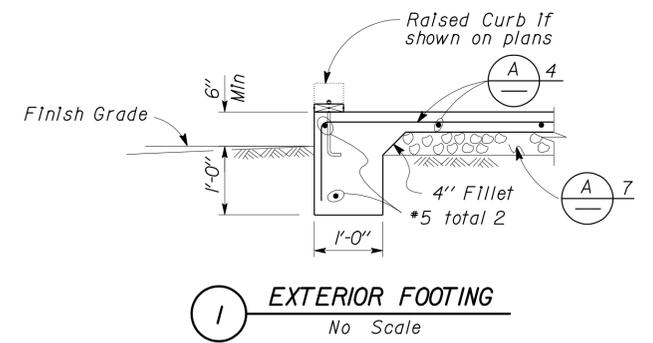
CU 09603 EA 315201	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	93.8	23	82

Andrew W. Corker
 REGISTERED CIVIL ENGINEER
 DATE 05-02-08
 Exp. 6-30-11
 CIVIL
 STATE OF CALIFORNIA

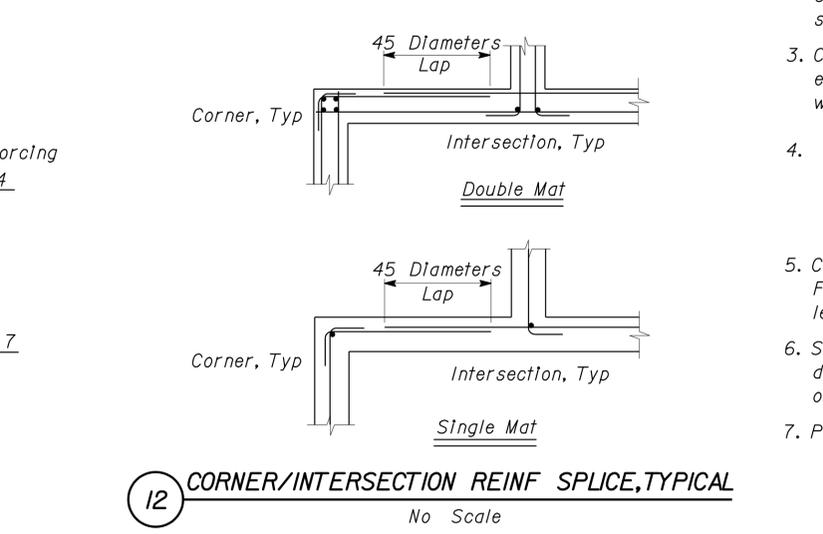
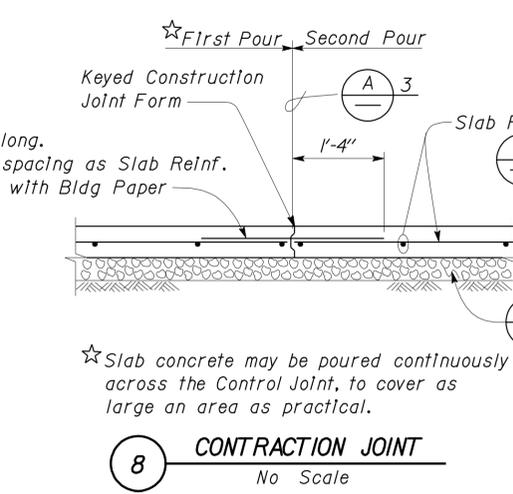
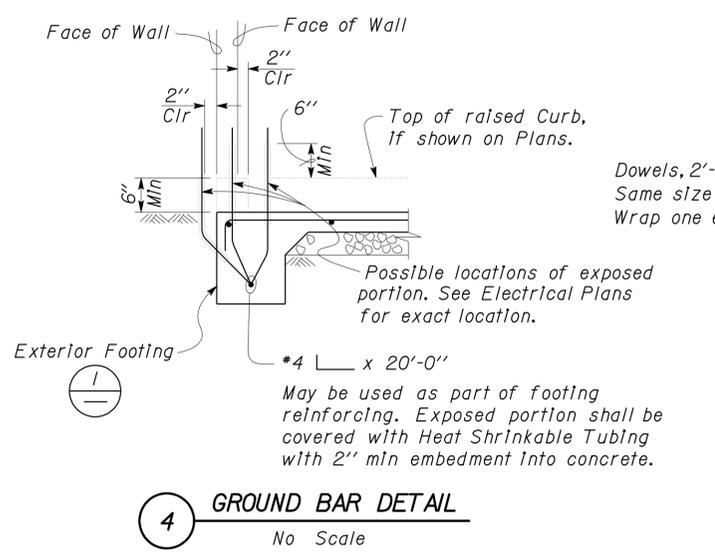
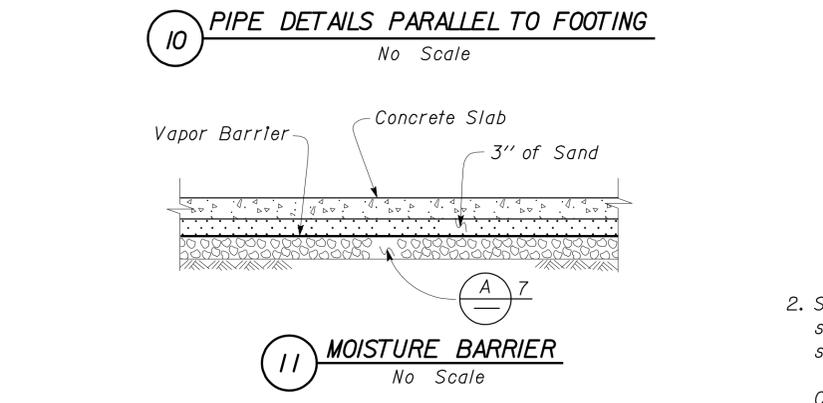
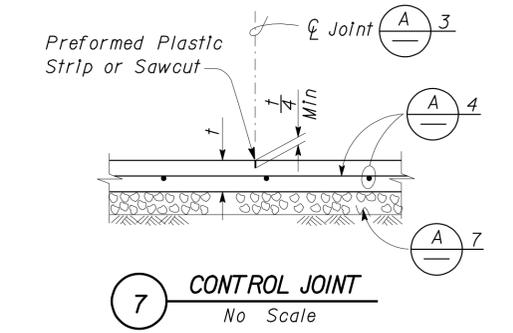
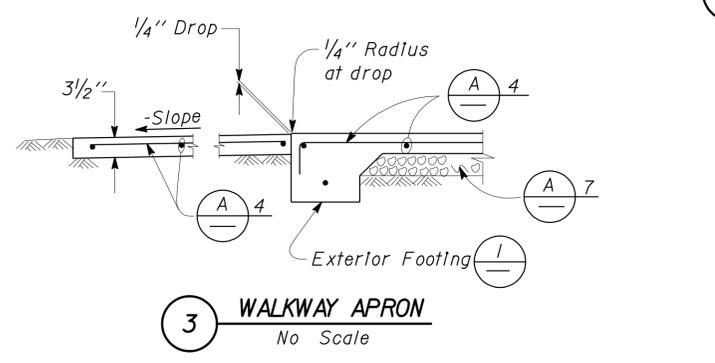
1-11-10
 PLANS APPROVAL DATE

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



- A CONCRETE NOTES**
- The following minimum concrete cover shall 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"



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

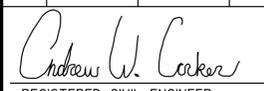
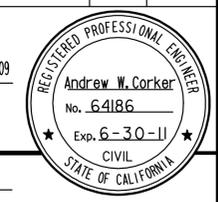
FILE NO. XS-25-1	DESIGN BY Sean Savel	CHECKED BY [Signature]	APPROVED BY [Signature]
DRAWING DATE 1-04	DETAILS BY Peter F. von Savoy	CHECKED BY [Signature]	DESIGN SUPERVISOR [Signature]
SUBMITTED BY Sean Savel		DESIGN ENGINEER	

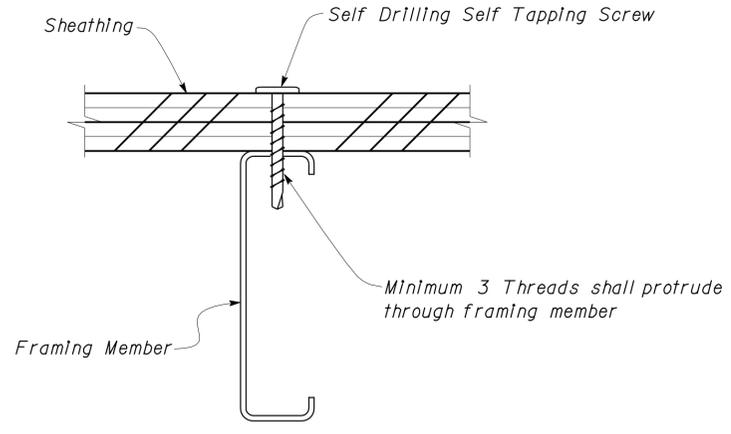
DOES SD Imperial Rev. 9/02

STATE OF CALIFORNIA	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 47M5717	SONORA JUNCTION MAINTENANCE STATION	SHEET ST-2
DEPARTMENT OF TRANSPORTATION	ARCHITECTURAL AND STRUCTURAL DESIGN	POST MILE	MECHANICS WORK FACILITY	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	CU 09603 EA 315201	DISREGARD PRINTS BEARING EARLIER REVISION DATES	CONCRETE STANDARD	

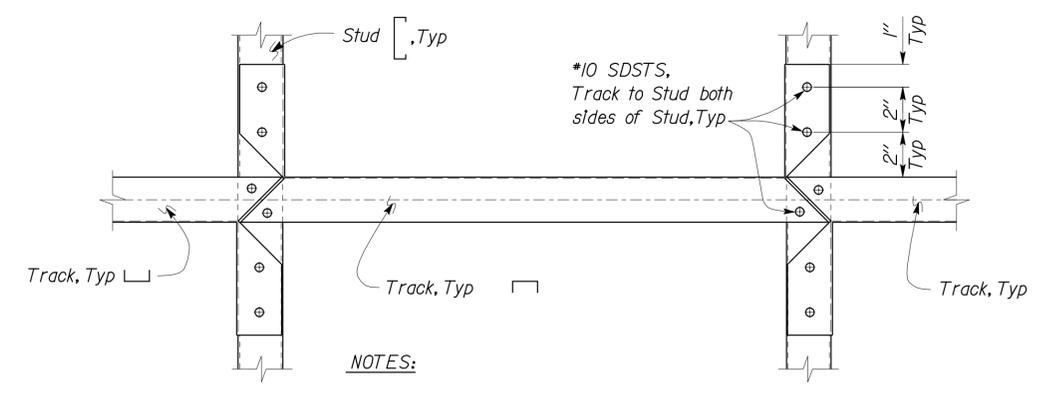
REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
1-16-04 11-14-05	

13-JAN-2010 13:13
st_02.dgn

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	93.8	24	82
 REGISTERED CIVIL ENGINEER			05-02-09 DATE		
1-11-10 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



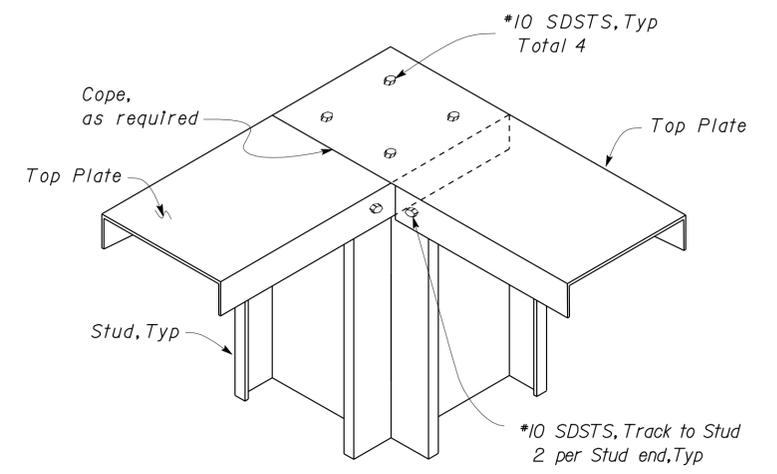
1 SCREW DETAIL
No Scale



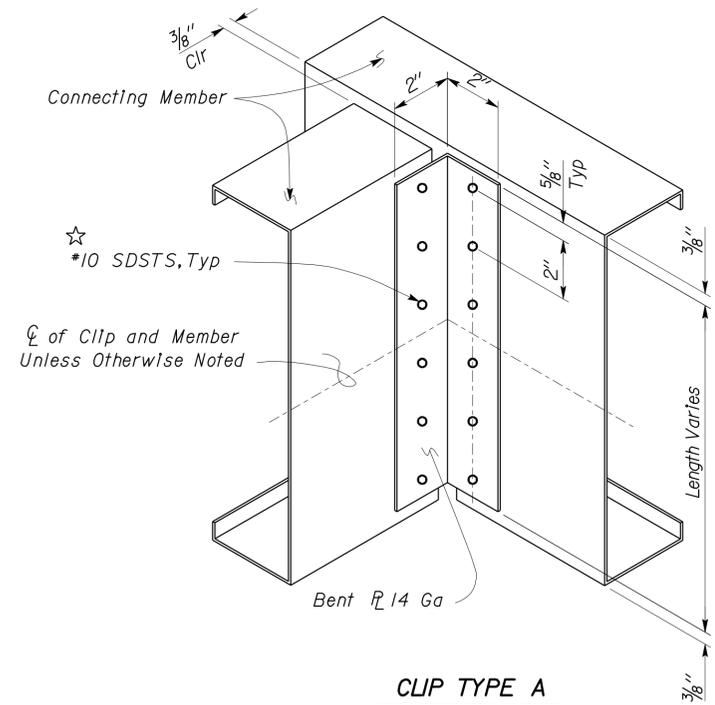
NOTES:

1. Track used for Blocking shall match Studs, In Width and Gauge thickness.
2. Strapping on blocking, If required, not shown for clarity.

2 STUD BLOCKING DETAIL
No Scale



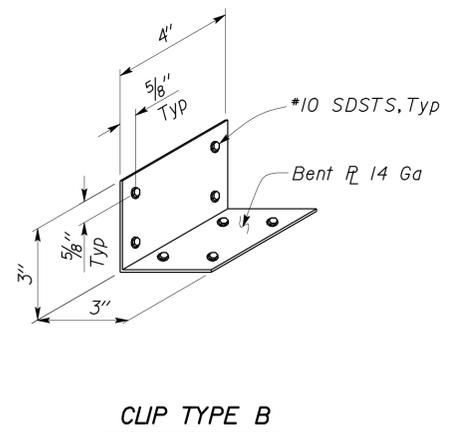
5 TOP PLATE CONNECTION
No Scale



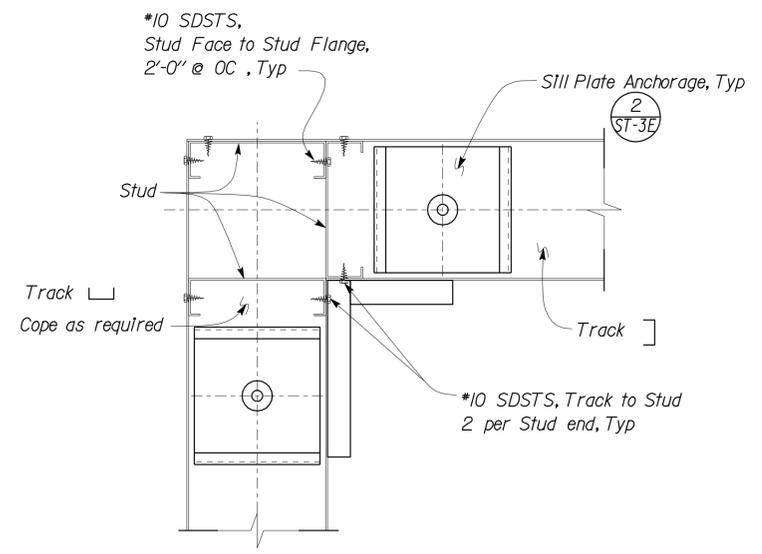
3 ANGLE CLIP TYPES
No Scale

NOTES:

1. All Clips shall be 14 ga hot dipped galvanized Steel.
2. All Clips shall use #10 SDSTS as fasteners.
- ☆ 3. Screws shall be centered in flanges, 5/8" minimum from ends, equally spaced, three SDSTS per flange minimum, unless otherwise shown.

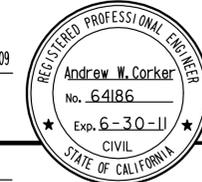


4 PARTITION CORNER CONNECTION
No Scale



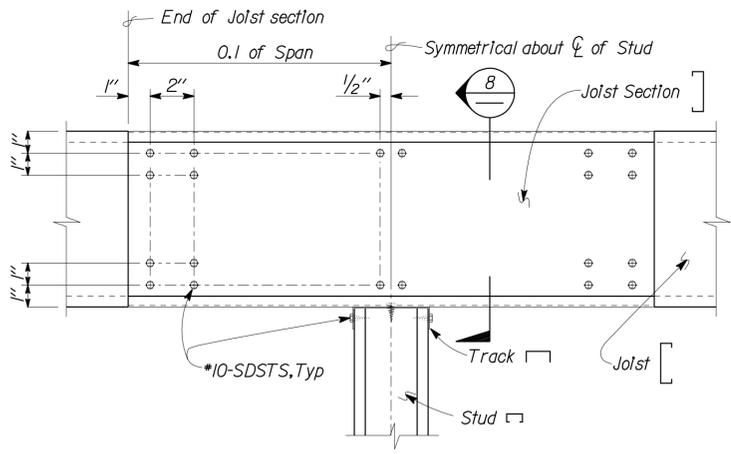
DESIGN	BY	Andrew W. Corker	CHECKED	Robert duPlaine	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO.	47M5717	SONORA JUNCTION MAINTENANCE STATION MECHANICS WORK FACILITY	SHEET ST-3A
	DETAILS	BY	Janice Fujii	CHECKED			Robert duPlaine	POST MILE		
QUANTITIES	BY		CHECKED		CU 09603 EA 315201	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	03-03-09 05-01-09 06-17-09	SHEET	OF

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	93.8	25	82

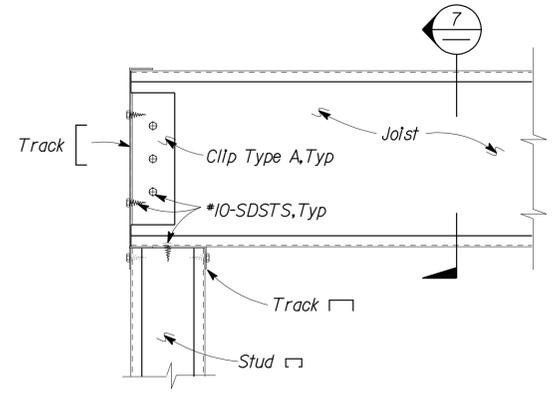
 REGISTERED CIVIL ENGINEER DATE 05-02-09	
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1-11-10
PLANS APPROVAL DATE

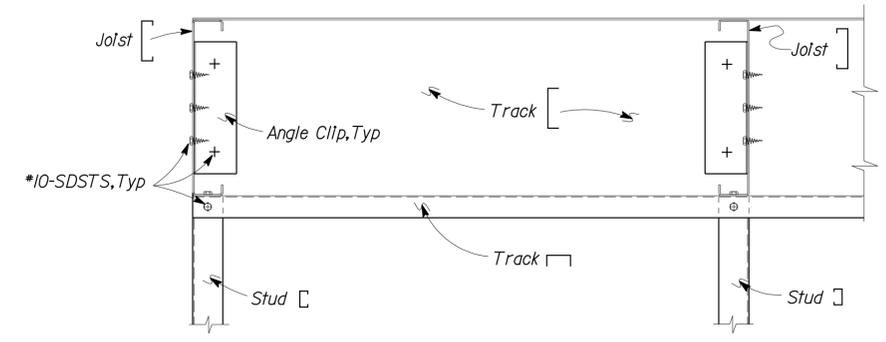
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



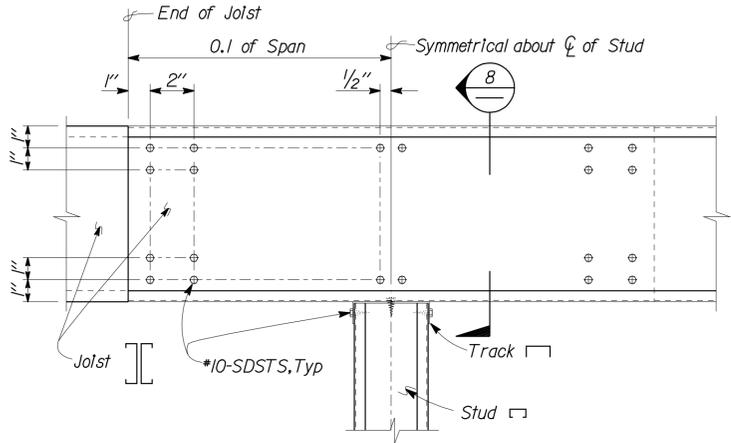
1 JOIST REINFORCEMENT
No Scale



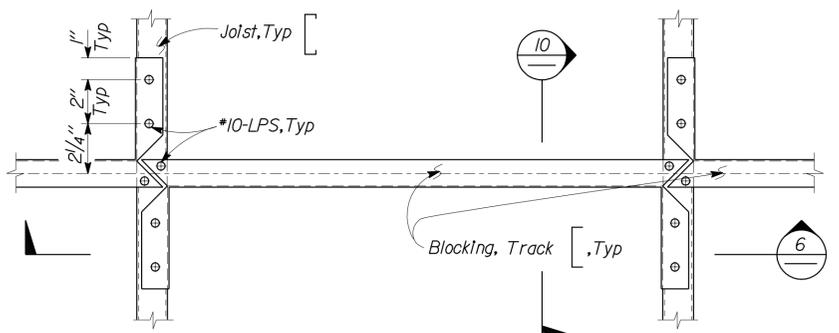
4 JOIST AT STUD CONNECTION
No Scale



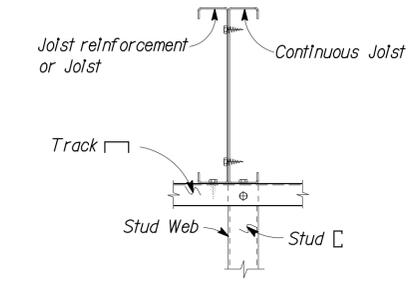
7 JOIST TRANSVERSE SECTION
No Scale



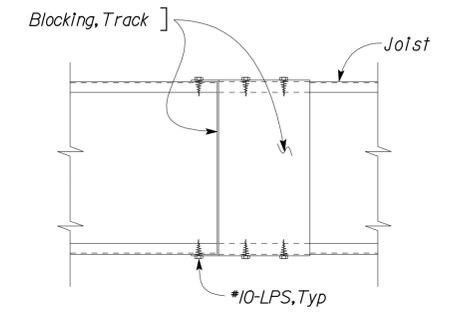
2 JOIST LAP AT STUD
No Scale



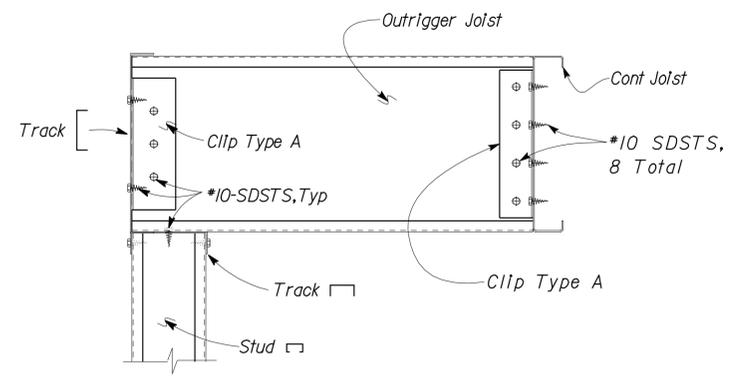
5 JOIST BLOCKING PLAN
No Scale



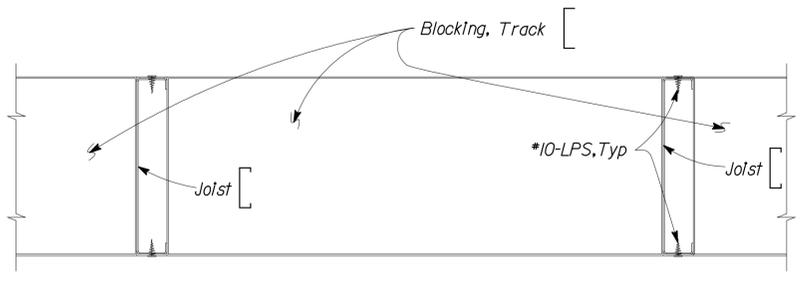
8 JOIST REINFORCEMENT SECTION
No Scale



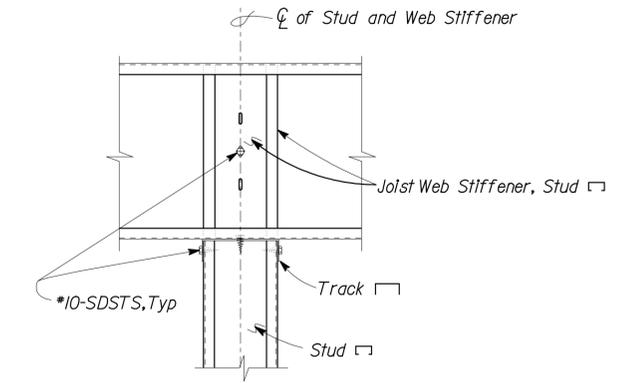
10 JOIST BLOCKING SECTION
No Scale



3 JOIST TO OUTRIGGER CONNECTION
No Scale



6 JOIST BLOCKING ELEVATION
No Scale



9 JOIST WEB STIFFENER DETAIL
No Scale

DESIGN	BY Andrew W. Corker	CHECKED Robert duPlaine	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 47M5717	SONORA JUNCTION MAINTENANCE STATION MECHANICS WORK FACILITY COLD FORM STEEL WALL AND CEILING FRAMING	SHEET ST-3B
	DETAILS	BY Janice Fujii			CHECKED Robert duPlaine		
QUANTITIES	BY	CHECKED	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 09603 EA 315201	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF

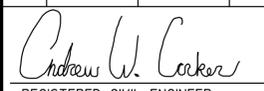
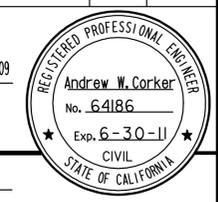
DOES SD Imperial Rev. 9/02

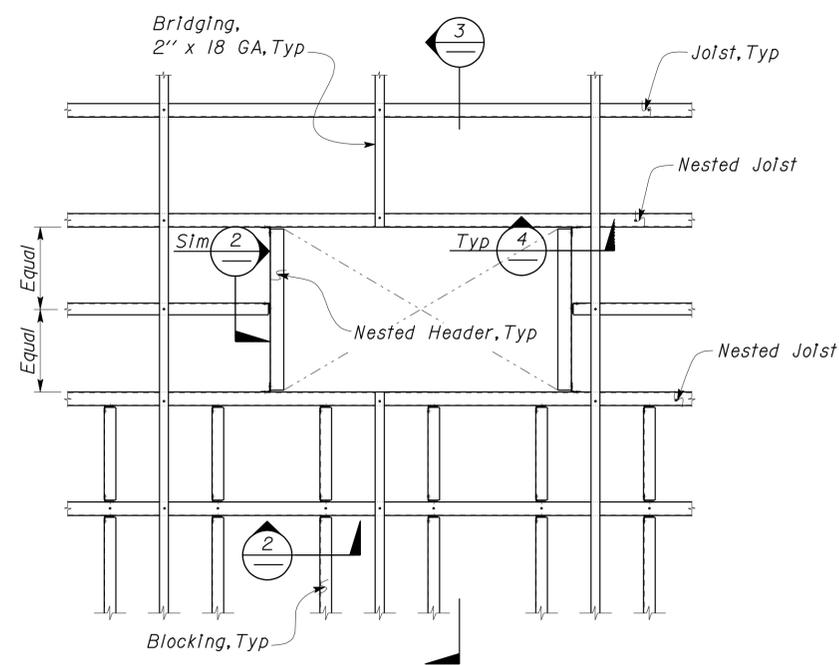
0 1 2 3

03-03-09 05-01-09 06-17-09

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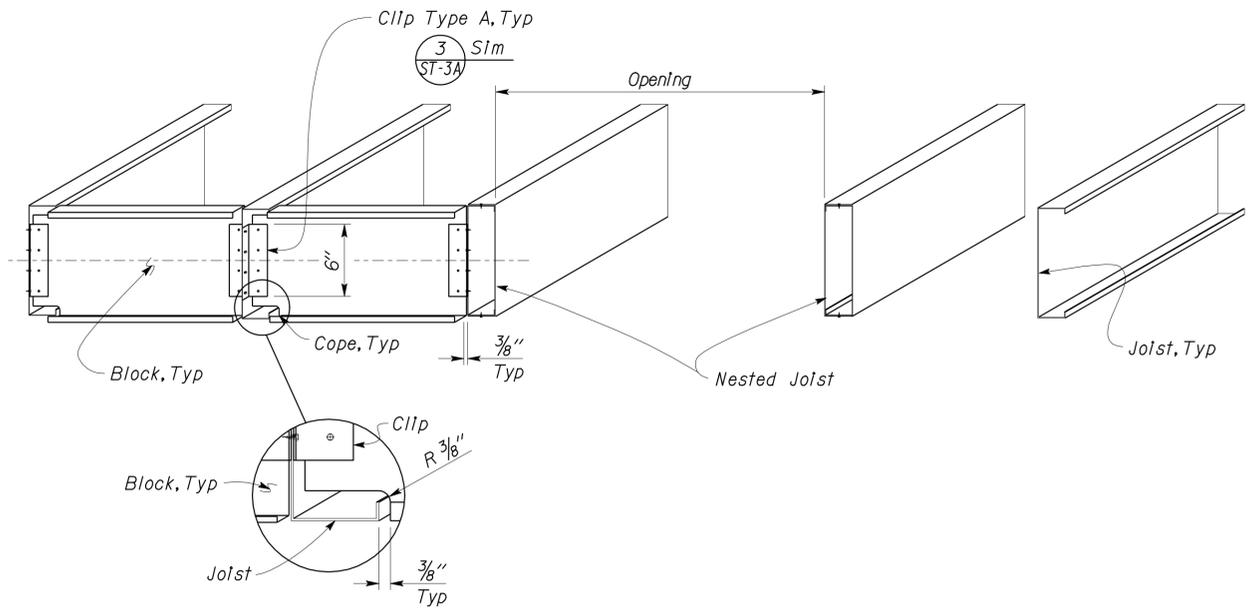
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09	Mno	395	93.8	26	82

 REGISTERED CIVIL ENGINEER DATE 05-02-09	
PLANS APPROVAL DATE 1-11-10	
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.	

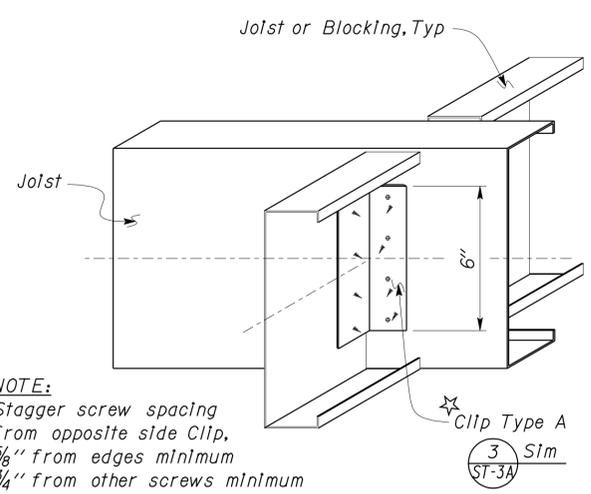


NOTE: Ceiling SPS not shown.

1 COLD-FORM STEEL CEILING OPENING
No Scale

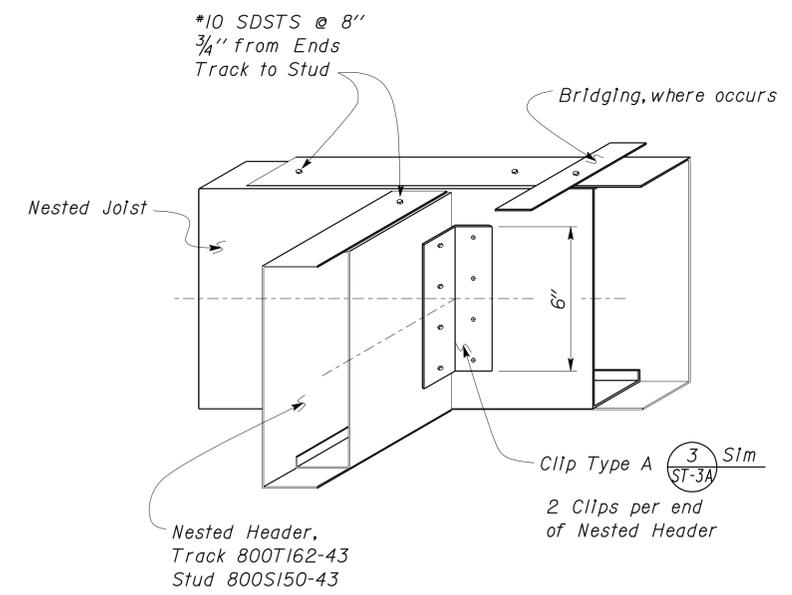


3 CEILING BLOCKING DETAIL
No Scale



☆ NOTE:
Stagger screw spacing
from opposite side Clip,
5/8" from edges minimum
3/4" from other screws minimum

2 CEILING CONNECTION DETAIL
No Scale



4 CEILING CONNECTION DETAIL
No Scale

DESIGN	BY Andrew W. Corker	CHECKED Robert duPlaine
DETAILS	BY Janice Fujii	CHECKED Robert duPlaine
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE NO. 47M5717
POST MILE

**SONORA JUNCTION MAINTENANCE STATION
MECHANICS WORK FACILITY**

COLD FORM STEEL
CEILING OPENING DETAILS

SHEET **ST-3C** OF

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	93.8	27	82

Andrew W. Corker
 REGISTERED CIVIL ENGINEER
 DATE 05-02-09

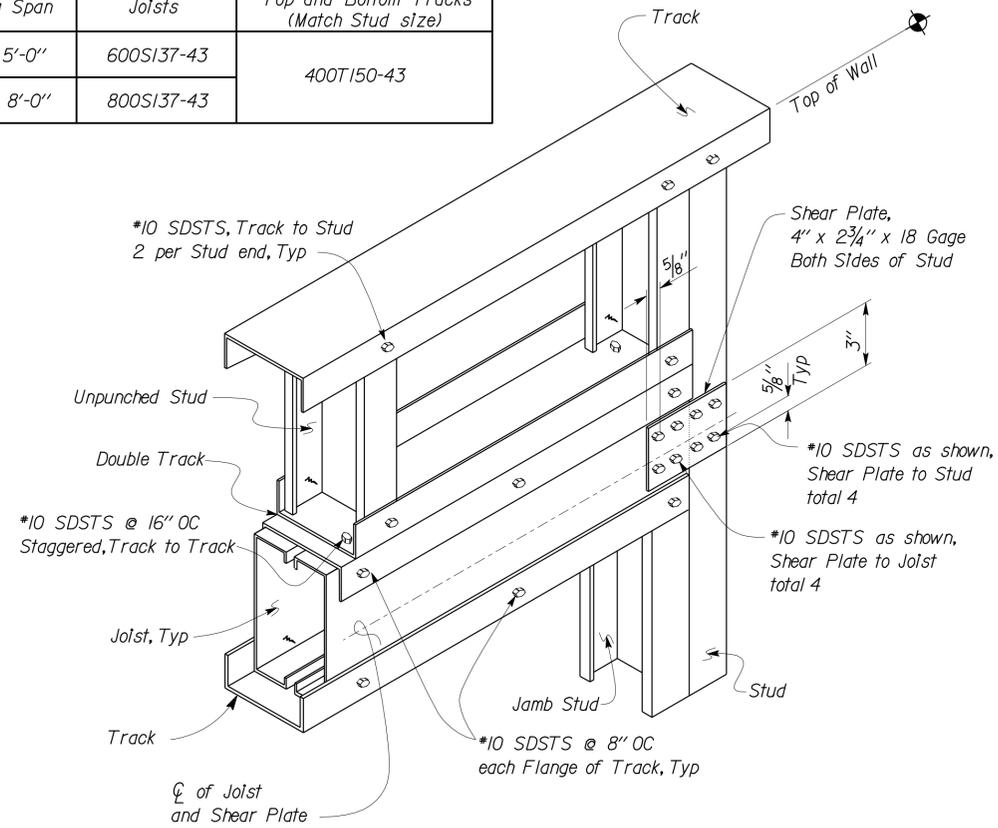
Andrew W. Corker
 No. 64186
 Exp. 6-30-11
 CIVIL
 STATE OF CALIFORNIA

1-11-10
 PLANS APPROVAL DATE

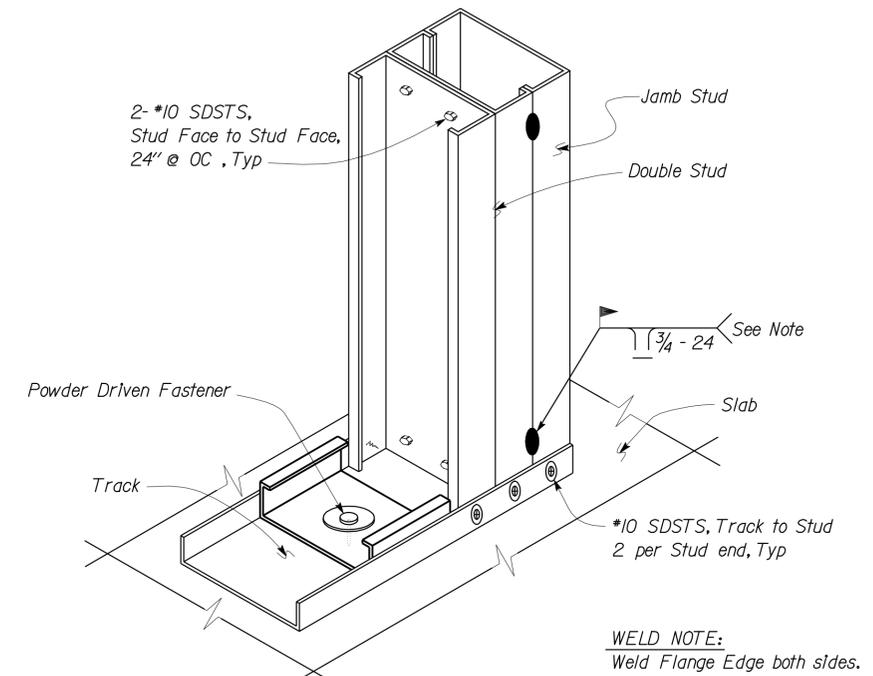
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

COLD-FORM STEEL HEADER

Opening Span	Joists	Top and Bottom Tracks (Match Stud size)
Up to 5'-0"	600SI37-43	400T150-43
5'-0" to 8'-0"	800SI37-43	



1 HEADER DETAIL
No Scale



2 DOUBLE STUD WITH JAMB STUD DETAIL
No Scale

DESIGN	BY Andrew W. Corker	CHECKED Robert duPlaine	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 47M5717	SONORA JUNCTION MAINTENANCE STATION MECHANICS WORK FACILITY COLD FORM STEEL STUD WALL DETAILS	SHEET ST-3D
	DETAILS	BY Janice Fujii			CHECKED Robert duPlaine		
QUANTITIES	BY	CHECKED	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 09603 EA 315201	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF	

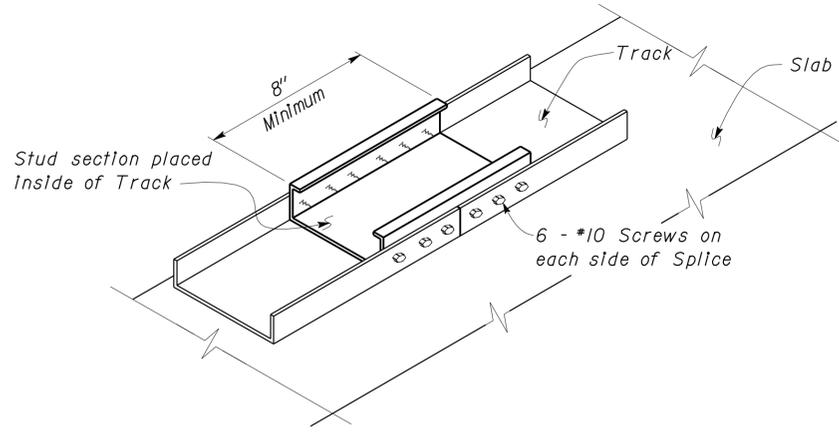
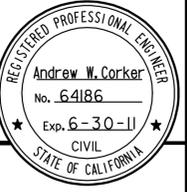
DOES SD Imperial Rev. 9/02
 0 1 2 3
 DISREGARD PRINTS BEARING EARLIER REVISION DATES
 03-03-09 05-01-09 06-17-09
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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	93.8	28	82

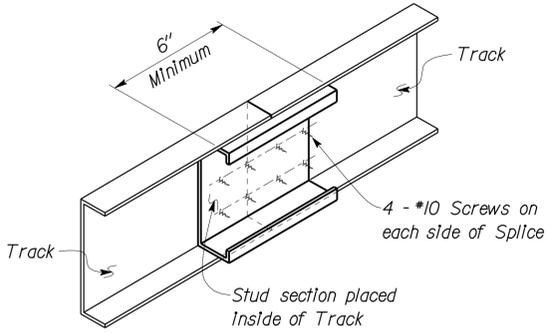
<i>Andrew W. Corker</i>		05-02-09
REGISTERED CIVIL ENGINEER	DATE	

1-11-10
PLANS APPROVAL DATE

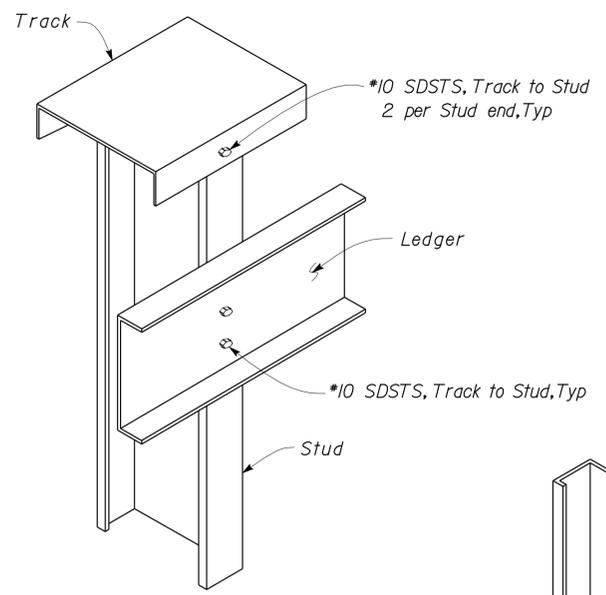
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



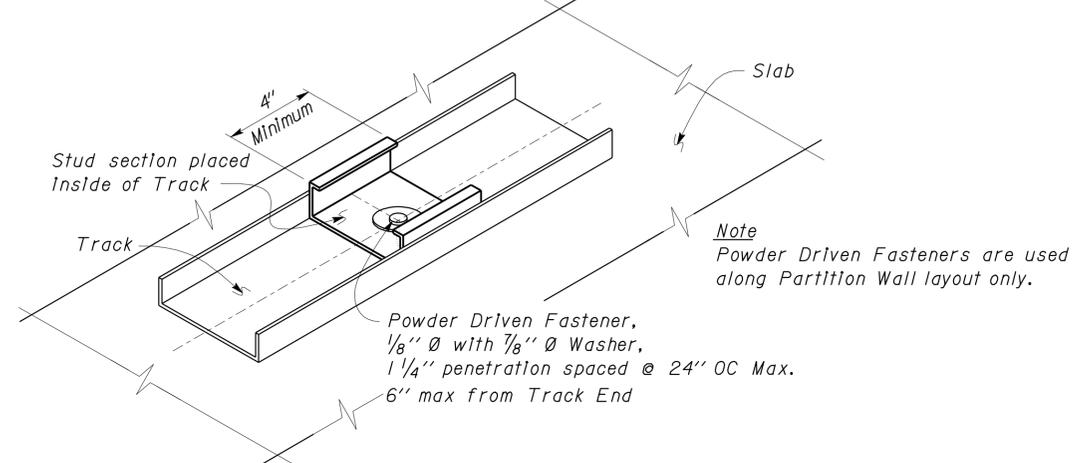
1 FLOOR TRACK SPLICE
No Scale



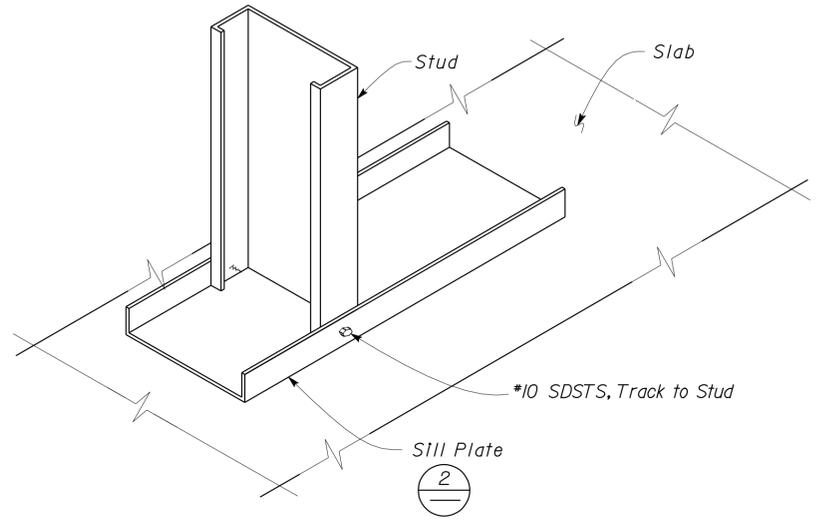
4 WALL TRACK SPLICE
No Scale



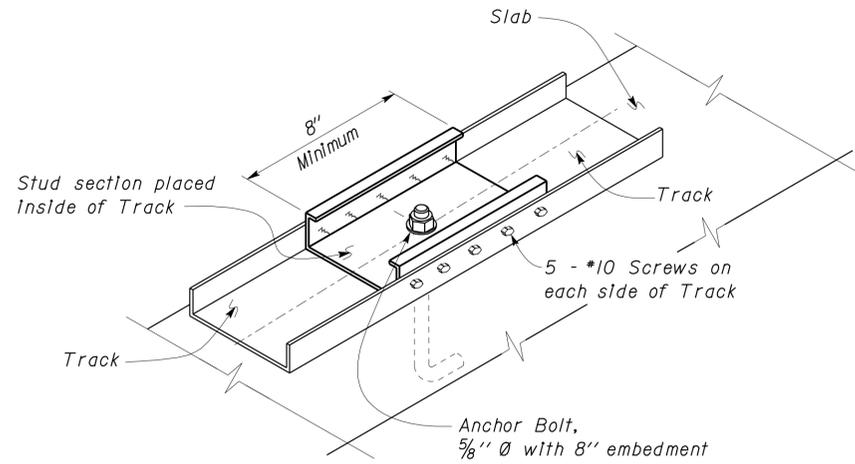
6 TOP OF WALL DETAIL
No Scale



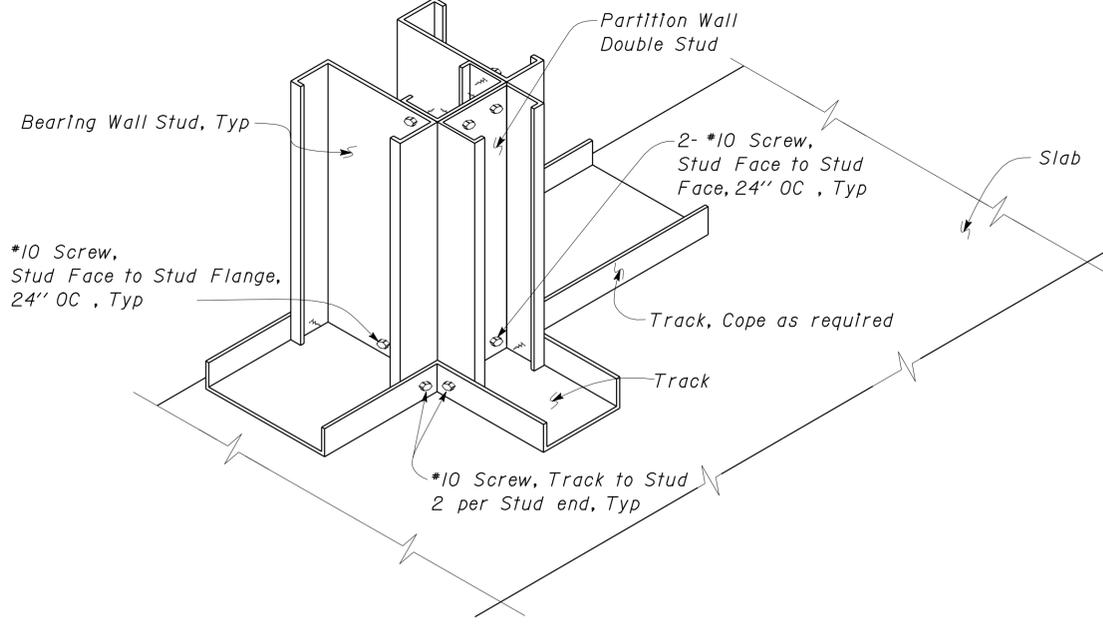
2 SILL PLATE ANCHORAGE
No Scale



7 STUD TO SILL PLATE
No Scale

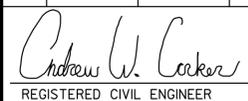
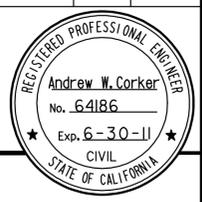


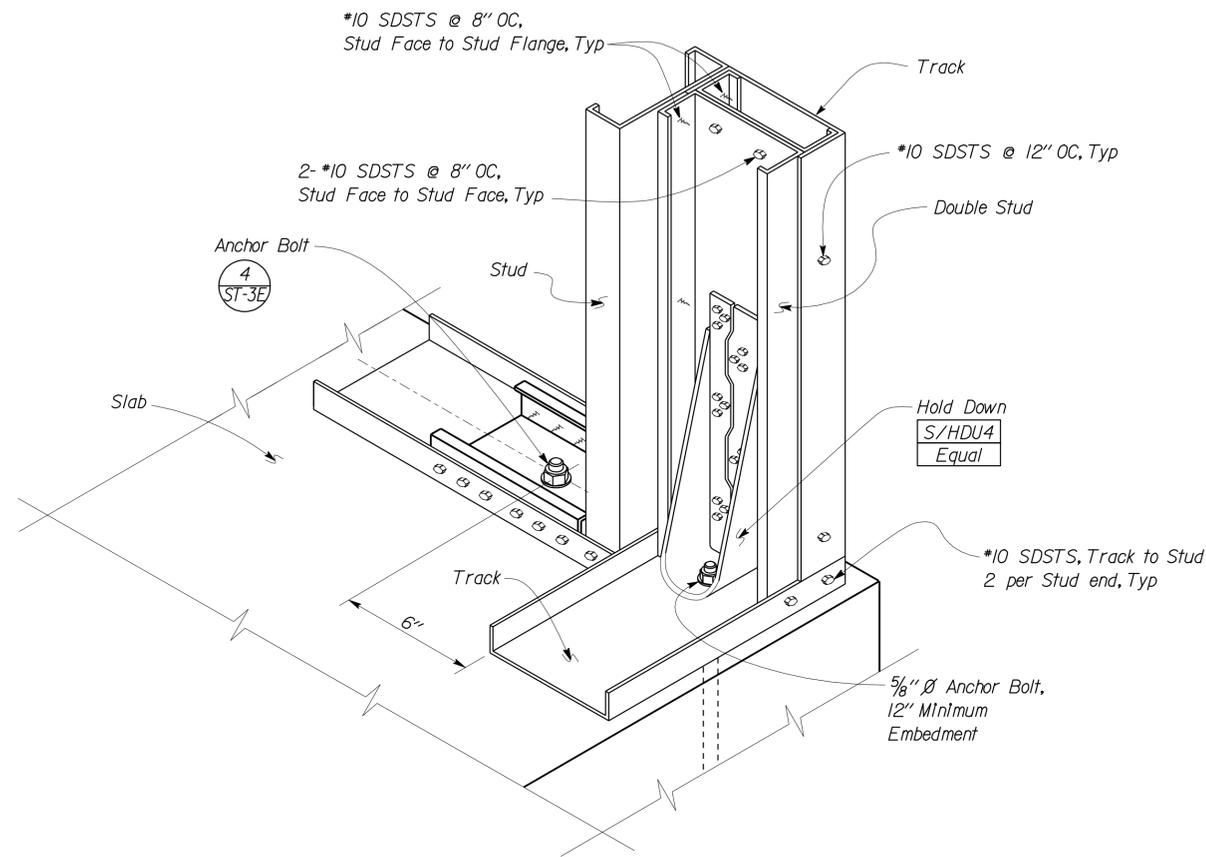
4 EXTERIOR WALL TRACK ANCHORAGE
No Scale



5 WALL INTERSECTION DETAIL
No Scale

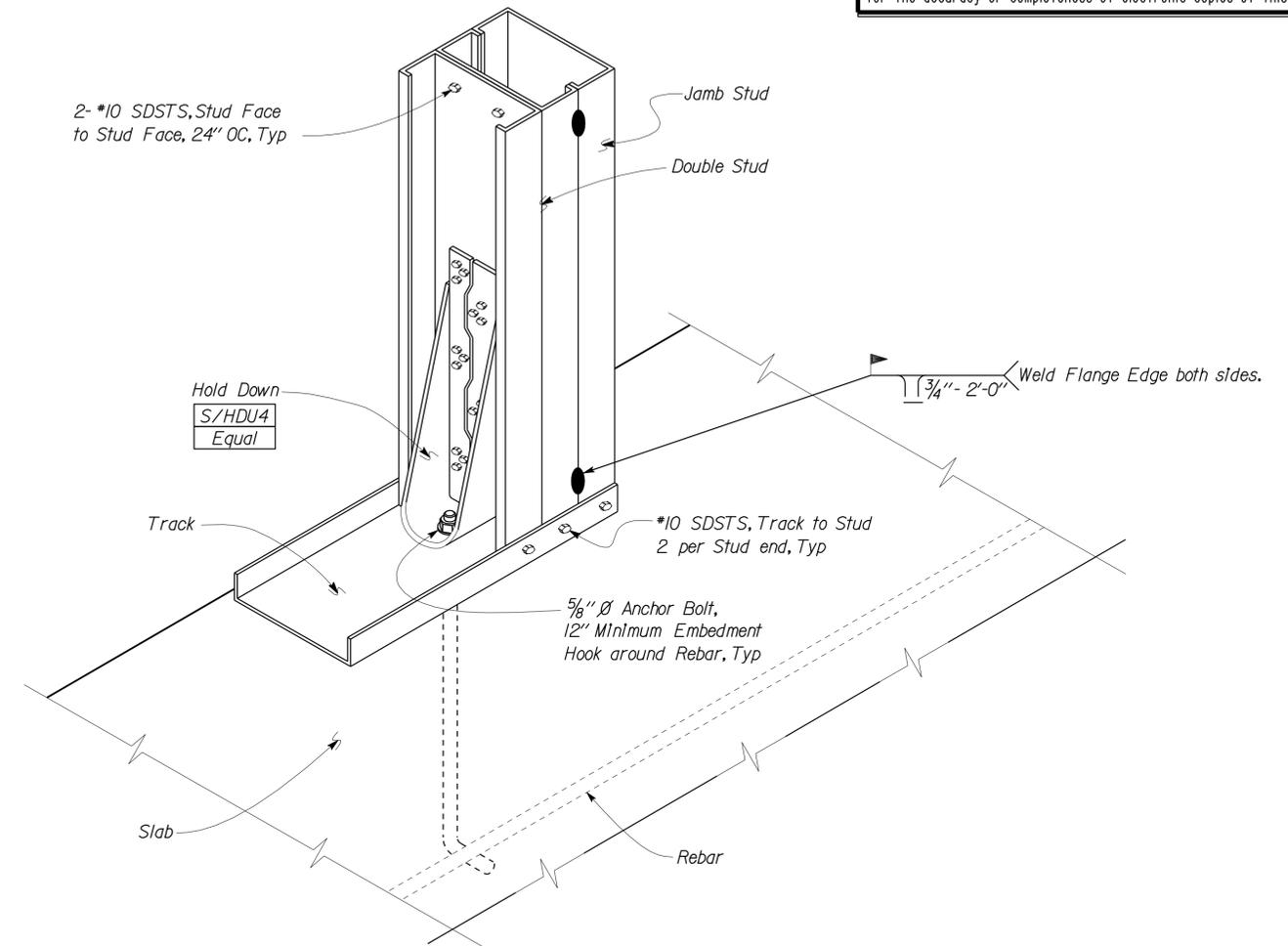
DESIGN	BY Andrew W. Corker	CHECKED Robert duPlaine	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 47M5717	SONORA JUNCTION MAINTENANCE STATION MECHANICS WORK FACILITY COLD FORM STEEL STUD WALL DETAILS	SHEET
	DETAILS	BY Janice Fujii			CHECKED Robert duPlaine		POST MILE
QUANTITIES	BY	CHECKED	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 09603 EA 315201	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	93.8	29	82
 REGISTERED CIVIL ENGINEER			05-02-09 DATE		
1-11-10 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



1 WALL ANCHOR AT CORNER
No Scale

NOTES
Wall SPS and Slab Reinforcement not shown for clarity



2 WALL ANCHOR DETAIL
No Scale

NOTES
Wall SPS and Slab Reinforcement not shown for clarity

DESIGN	BY	Andrew W. Corker	CHECKED	Robert duPlaine	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO.	47M5717	SONORA JUNCTION MAINTENANCE STATION MECHANICS WORK FACILITY	SHEET ST-3F	
	DETAILS	BY	Janice Fujii	CHECKED			Robert duPlaine	POST MILE			
QUANTITIES	BY		CHECKED		CU 09603 EA 315201	DISREGARD PRINTS BEARING EARLIER REVISION DATES	06-17-09	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0	1	2	3	13-JAN-2010 13:14		

PROJECT DESIGN CRITERIA

The building work on this project has been designed to conform to the 2007 California Building Code.

PRE-ENGINEERED FRAME AND CANOPY LOADS

SEISMIC: Occupancy Category = II
 Importance Factor = 1.0
 Site Soil Class = D
 $S_S = 1.160$ $S_{DS} = 0.801$
 $S_I = 0.421$ $S_{DI} = 0.443$

Seismic Design Category = D

Seismic Force-Resisting System:

North - South

Ordinary steel moment resisting frames

$R = 3.50$ $C_S = 0.1602$

East - West

Ordinary steel concentrically braced frames

$R = 3.25$ $C_S = 0.1726$

WIND: Importance Factor = 1.0
 Basic Wind Speed = 90 mph
 Exposure C
 Internal Pressure Coefficient $GC_{PI} = \pm 0.18$

LIVE LOAD: Roof = 20 psf

SNOW LOAD: $C_e = .9$ $C_t = 1.1$ $I = 1.0$
 $P_G = 155$ psf
 $P_F = 120$ psf

OFFICE LOADS

OFFICE SEISMIC: Occupancy Category = II
 Importance Factor = 1.0
 Site Soil Class = D
 $S_S = 1.160$ $S_{DS} = 0.801$
 $S_I = 0.421$ $S_{DI} = 0.443$

Seismic Design Category = D

Seismic Force-Resisting System:

North - South

Light-framed walls sheathed with wood structural panels rated for shear resistance, or steel sheets.

$R = 6.50$ $C_S = 0.0863$

East - West

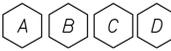
Light-framed walls sheathed with wood structural panels rated for shear resistance, or steel sheets.

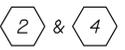
$R = 6.50$ $C_S = 0.0863$

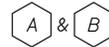
LIVE LOAD: Floor/Loft = 20 psf

PRE-ENGINEERED BUILDING DESIGN NOTES

1. The building shall be designed for all loads as required by the 2007 California Building Code.

2. Gable frames shall be provided at lines 

3. Braced Bays shall be provided at lines  &  between



4. Collateral Loads shall include:

- a. Wall and Ceiling Light Fixtures.
- b. Over Head Doors
- c. Roof Exhaust Fan of 200 lbs. in 1 location.
- d. Exhaust Evacuation of 200 lbs. in 1 location.
- e. Lube Reel of 1500 lbs. in 1 location.

5. Dead Load for insulated roof panels shall be calculated as 3.0 psf.

6. Maximum Roof Purlin spacing shall be 2.5' OC.

7. Provide Framing for all Wall and Roof Penetrations, Electrical Fixtures, Doors, and Framing Plans shall be submitted for approval prior to installation.

8. Girts shall be exterior type.

9. Deflection criteria: Story Drift = $H/120$
 Framing Members = $L/180$ (D*L)

10. The foundation design is subject to modification based upon the requirements of the building design. Construct foundation after approval of pre-engineered building submittal.

MATERIALS

REINFORCED CONCRETE: (Ultimate Strength Design) :

$f'_c = 3,000$ psi

$f_y = 60,000$ psi

FOUNDATION:

Soils report dated : Mar 06, 2009

Allowable Soil Pressure (DL + LL) : = 2,500 psf

For Soil Classification, see Log of Test Boring Sheets.

STRUCTURAL STEEL: (Allowable Strength Design) :

Wide Flange $F_y = 50$ ksi

Channels, Angles & Misc. Shapes $F_y = 50$ ksi

Plates $F_y = 50$ ksi

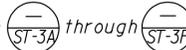
Hollow Structural Steel (HSS) $F_y = 46$ ksi

COLD FORMED STEEL: shall be $F_y = 33$ ksi

DETAIL NOTES

1. For Timber and Sawn Lumber see:
 "Wood Framing Standard - Notes"
 "Wood Framing Standard - Details"

2. For Concrete see:
 "Concrete Standard"

3. For Cold Form Steel see: 

4. All bolts shall be hex head machine bolts, with hex head nuts; unless otherwise noted.

5. All lock washers shall be helical spring lock washers.

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	93.8	30	82

Andrew W. Corker 05-02-09
 REGISTERED CIVIL ENGINEER DATE

Andrew W. Corker
 No. 64186
 Exp. 6-30-11
 CIVIL
 STATE OF CALIFORNIA

1-11-10
 PLANS APPROVAL DATE

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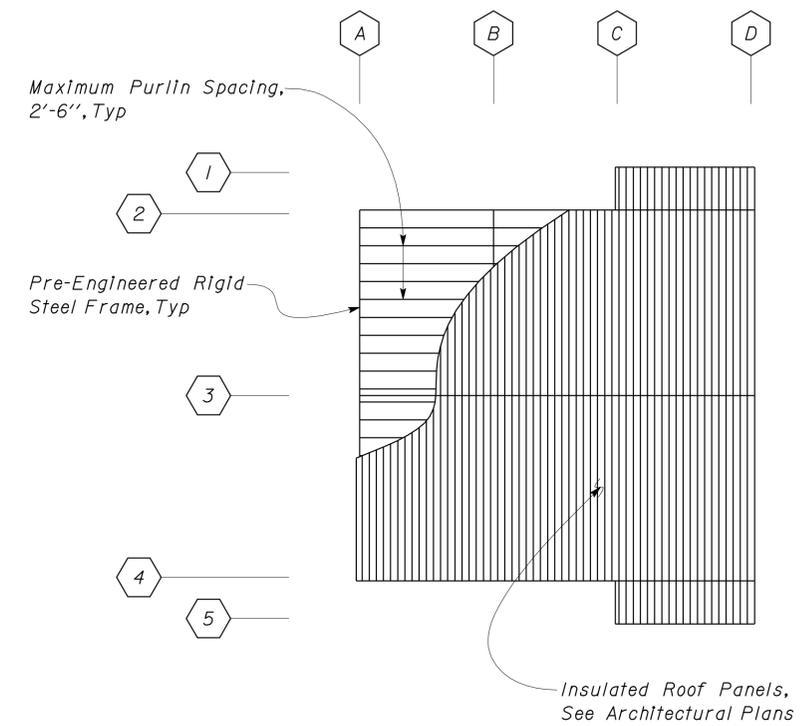
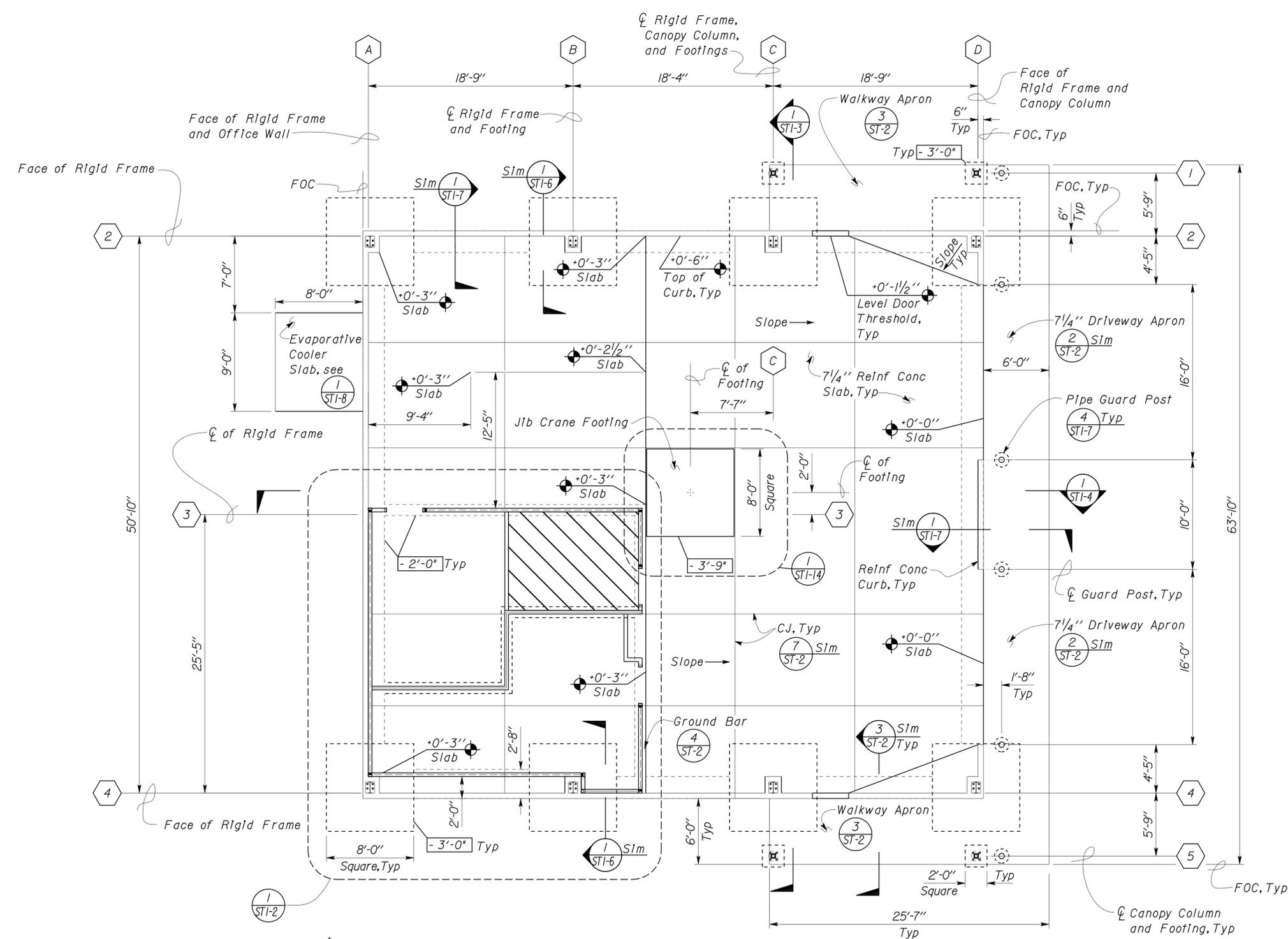
A LIGHT GAGE STEEL SECTIONS NOTES

LOCATION	ITEM	SECTION
Walls	Stud	400S162-43
	Track	400T150-43
	Blocking	400S162-43
Roof	Header	600S137-43
	Jolst	800S250-68
	Track	800T150-68
	Blocking	800S250-68

NOTES:

1. Section designations shall conform to the Steel Stud Manufacturer's Association Identification codes.
2. Sections shall conform to ICBO ER 4943P.
3. Framing screws for Wall OSB to light gauge steel shall be No. 8 x 1" Flat Head SDSTS with a minimum of 5/16" head Ø. Screw Spacing shall be:
 6" @ all OSB panel edges,
 6" @ all boundary members
 12" @ all Intermediate panel locations.
4. Studs shall not be spliced
5. All screws shall be ICBO Approved
6. Minimum of 3 Screw Threads shall protrude through framing members
7. Wall studs shall be located directly below roof jolsts.

DESIGN	BY Andrew W. Corker	CHECKED Robert duPlaine	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	SONORA JUNCTION MAINTENANCE STATION MECHANICS WORK FACILITY	SHEET ST1-0
DETAILS	BY Janice Fujii	CHECKED Robert duPlaine		47M5717		
QUANTITIES	BY	CHECKED		POST MILE		
DOES SD Imperial Rev. 9/02			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 09603 EA 315201	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)



2 ROOF PLAN
NTS

- Notes**
1. See Architectural Sheets for location of walkway and driveway control joints.
 2. See Architectural Sheets for location of 3" x 3" x 3/16" angles at door thresholds and driveway openings.

1 FOUNDATION PLAN
Scale 3/16" = 1'-0"
Elevation . = Datum 0'-0'

A SHEARWALL TABLE

Shear Wall	Screw Schedule		Holdown	Holdown Anchor Bolt
	Edge Screw	Field Screw		
▲ A	*8 Flathead @ 6"	*8 Flathead @ 12"	S/HDU4 Equal	See Note 3

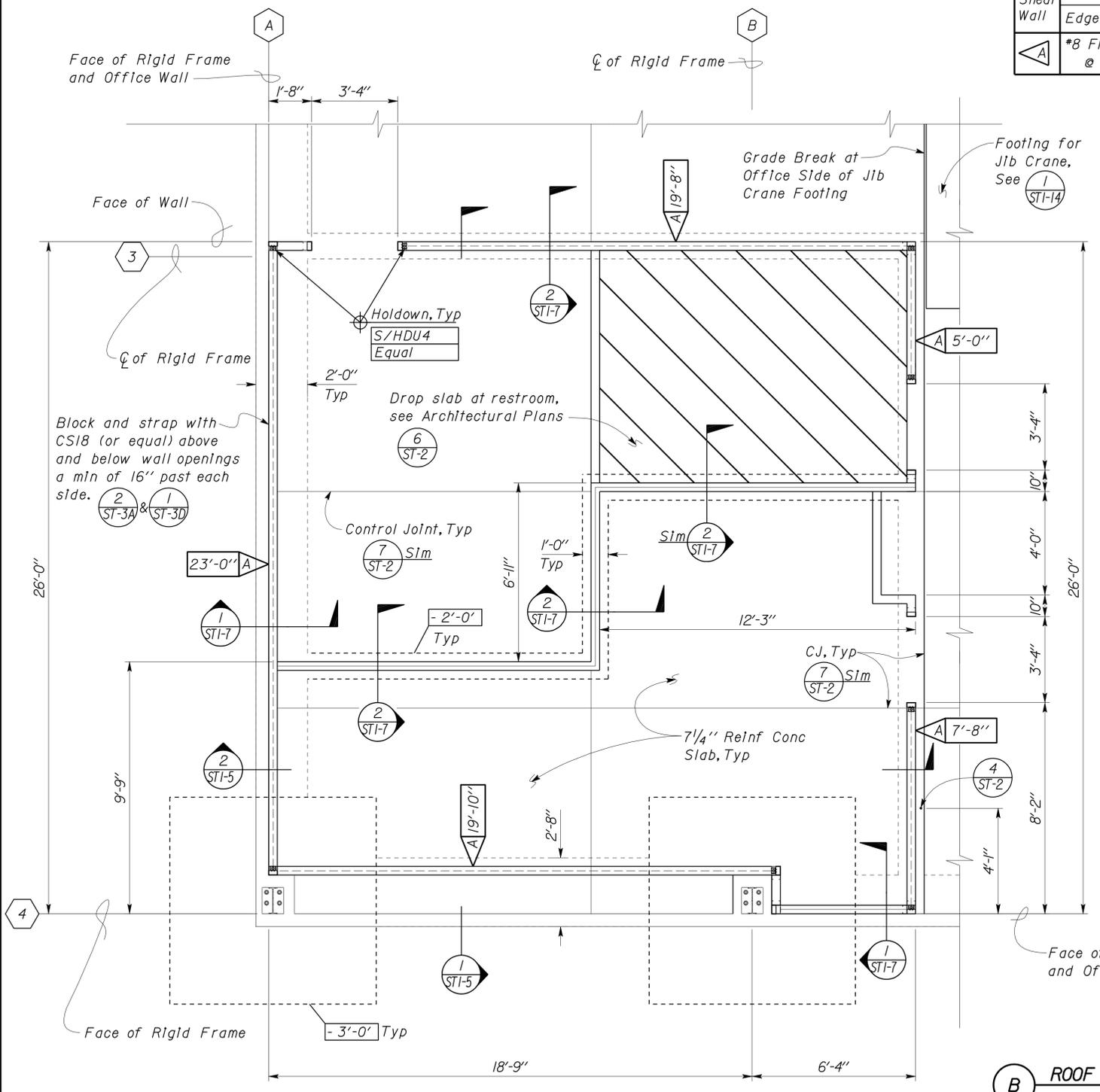
SHEARWALL TABLE NOTES

- Anchor Bolts shall be $\frac{5}{8}$ " \emptyset with 8" embedment in Concrete measured from top Reinforced Concrete Slab @ 48" OC. $\text{\textcircled{4}}_{\text{ST-3E}}$ Spacing per $\text{\textcircled{1}}_{\text{ST-1B}}$
- $\frac{7}{16}$ " OSB typical at shearwalls.
- Holdown Bolts shall be $\frac{5}{8}$ " \emptyset with 12" embedment in Concrete measured from top Reinforced Concrete Slab at locations shown. $\text{\textcircled{1}}_{\text{ST-3F}}$

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	93.8	32	82

Andrew W. Corker
 REGISTERED CIVIL ENGINEER
 DATE 05-02-09
 Andrew W. Corker
 No. 64186
 Exp. 6-30-11
 CIVIL
 STATE OF CALIFORNIA

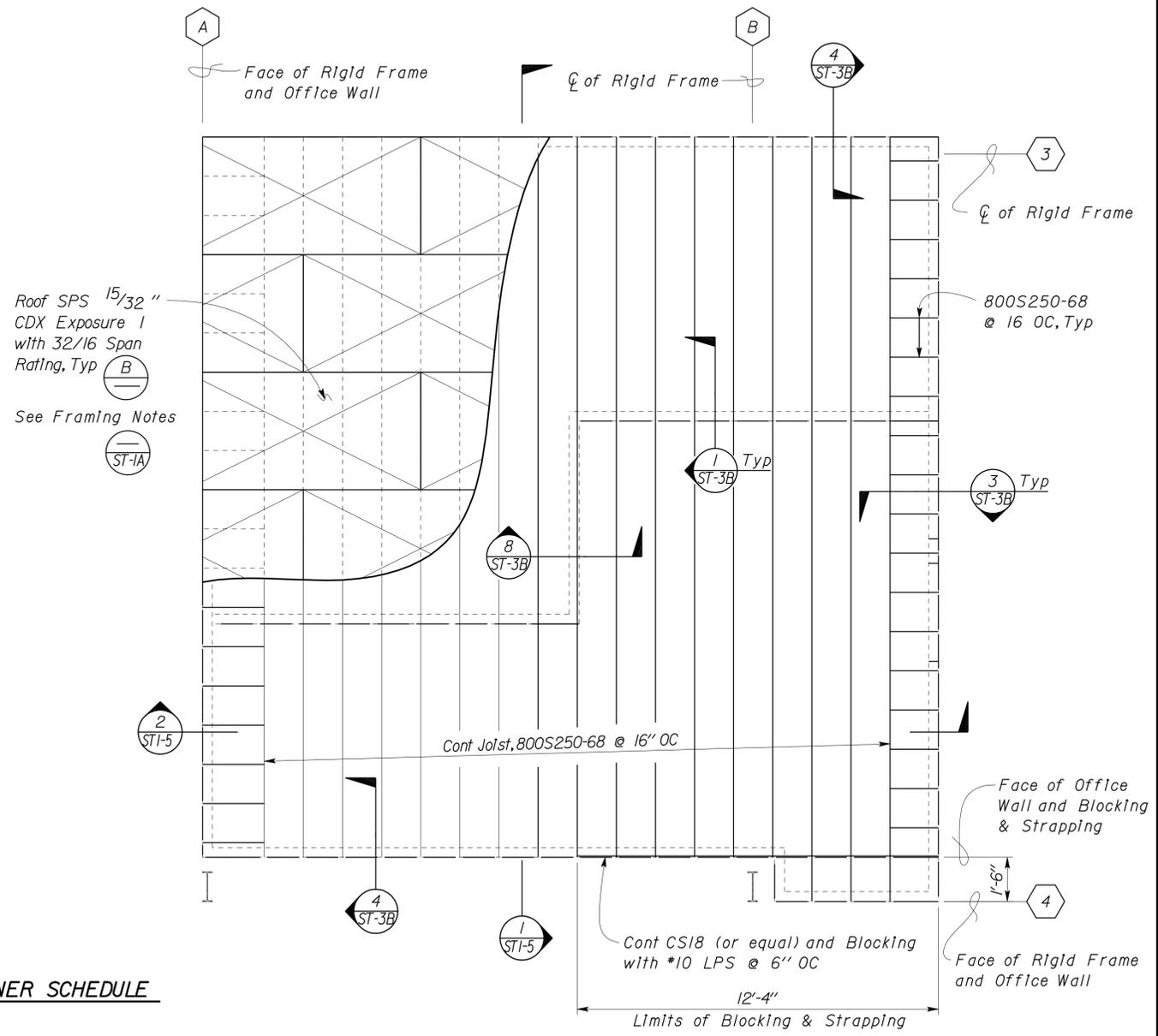
1-11-10
 PLANS APPROVAL DATE
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1 OFFICE FOUNDATION PLAN
Scale $\frac{3}{8}$ " = 1'-0"

B ROOF SPS FASTENER SCHEDULE

LOCATION	SCREWS
Panel Edges	*10 Flathead @ 6" Staggered
Field	*10 Flathead @ 12"



2 OFFICE ROOF PLAN
Scale $\frac{3}{8}$ " = 1'-0"

DESIGN BY Andrew W. Corker	CHECKED Robert duPlaine	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 47M5717	SONORA JUNCTION MAINTENANCE STATION MECHANICS WORK FACILITY OFFICE FOUNDATION AND ROOF PLAN	SHEET ST1-2	
DETAILS BY Janice Fujii	CHECKED Robert duPlaine		CU 09603	POST MILE		REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
QUANTITIES BY	CHECKED		EA 315201	DISREGARD PRINTS BEARING EARLIER REVISION DATES		02-25-09 03-02-09 05-01-09 06-08-09 06-17-09	OF

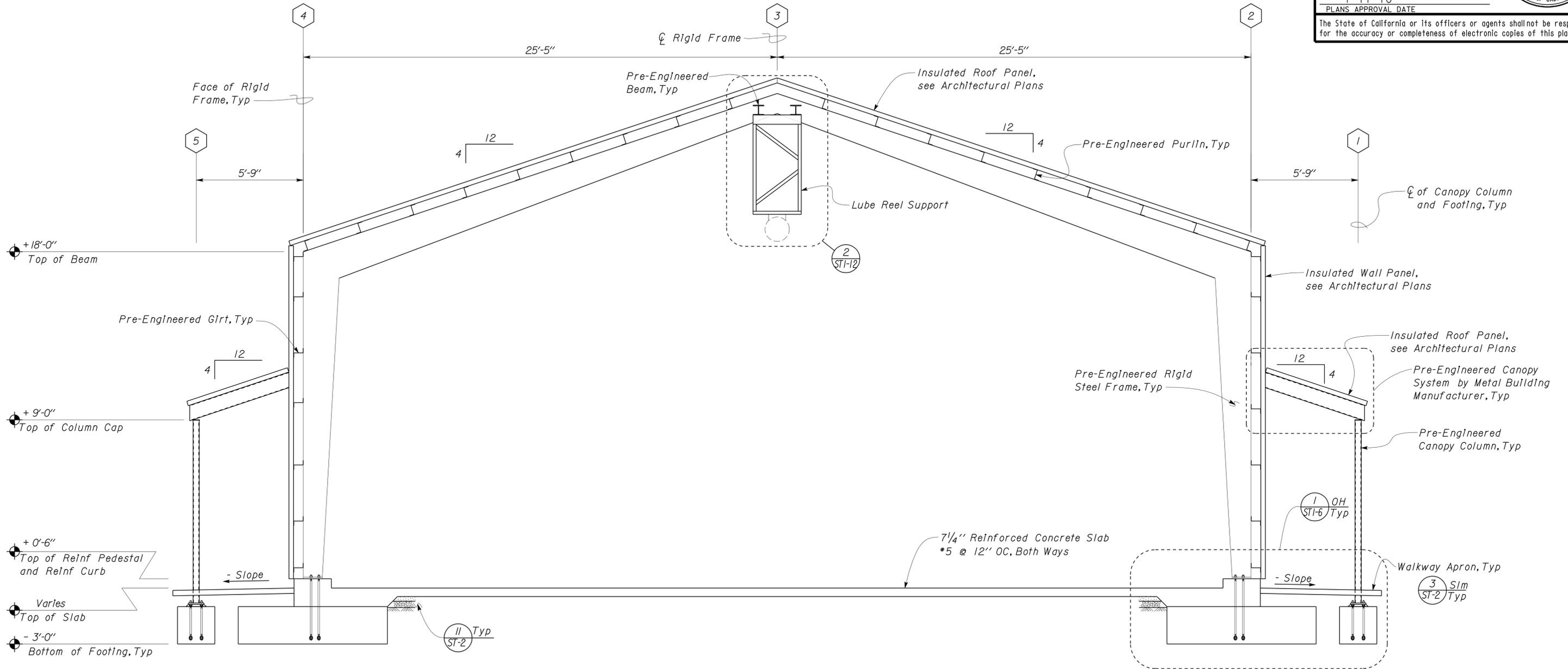
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 REVISION DATES (PRELIMINARY STAGE ONLY)
 02-25-09 03-02-09 05-01-09 06-08-09 06-17-09
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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	93.8	33	82

<i>Andrew W. Corker</i>	05-02-09	REGISTERED CIVIL ENGINEER No. 64186 Exp. 6-30-11 CIVIL STATE OF CALIFORNIA
REGISTERED CIVIL ENGINEER	DATE	

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

DESIGN	BY Andrew W. Corker	CHECKED Robert duPlaine
DETAILS	BY Janice Fujii	CHECKED Robert duPlaine
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE NO. 47M5717	SONORA JUNCTION MAINTENANCE STATION MECHANICS WORK FACILITY	BUILDING SECTION
POST MILE		

SHEET OF
ST1-3

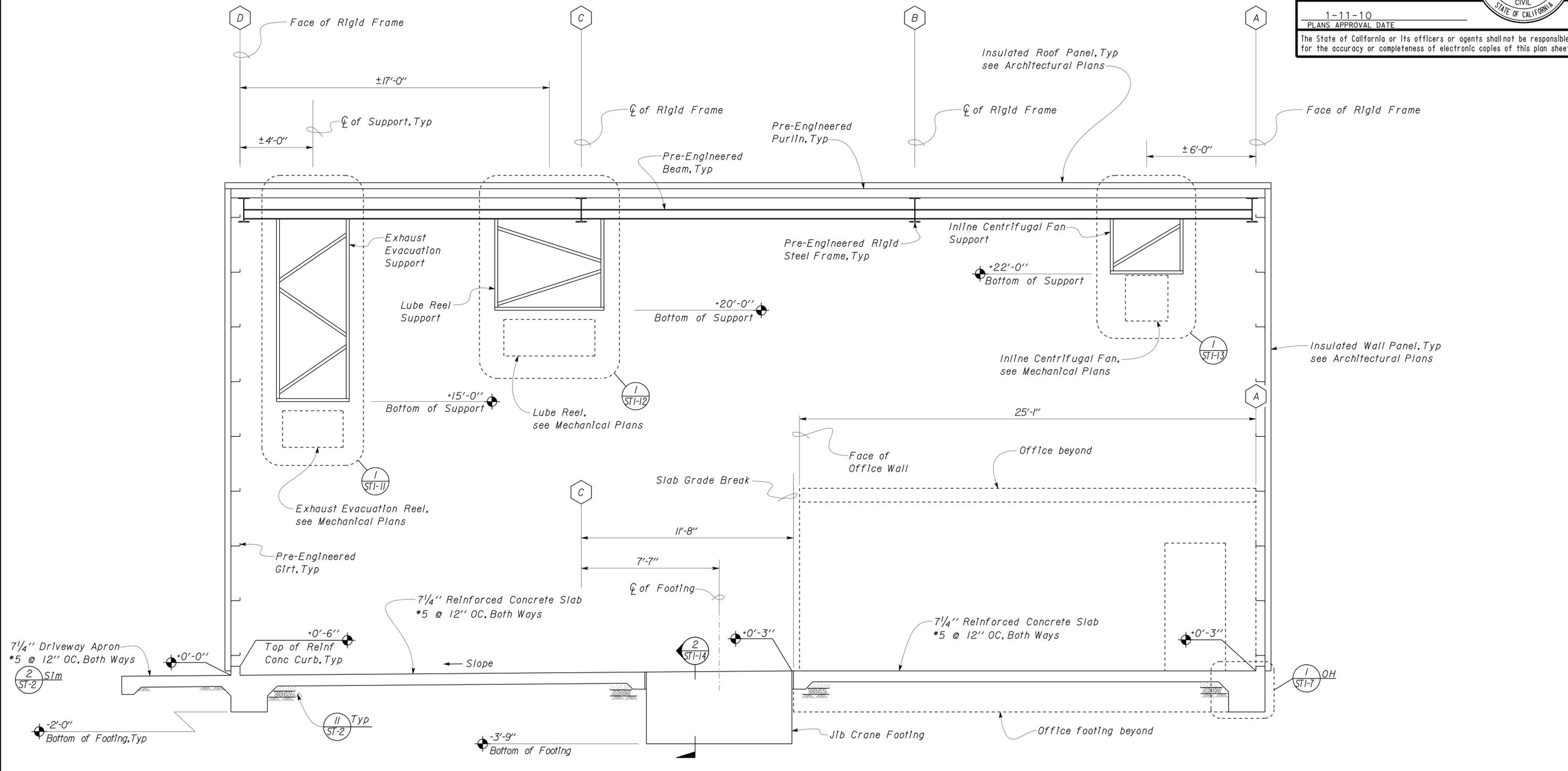
DOES SD Imperial Rev. 9/02

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 09603
EA 315201

DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
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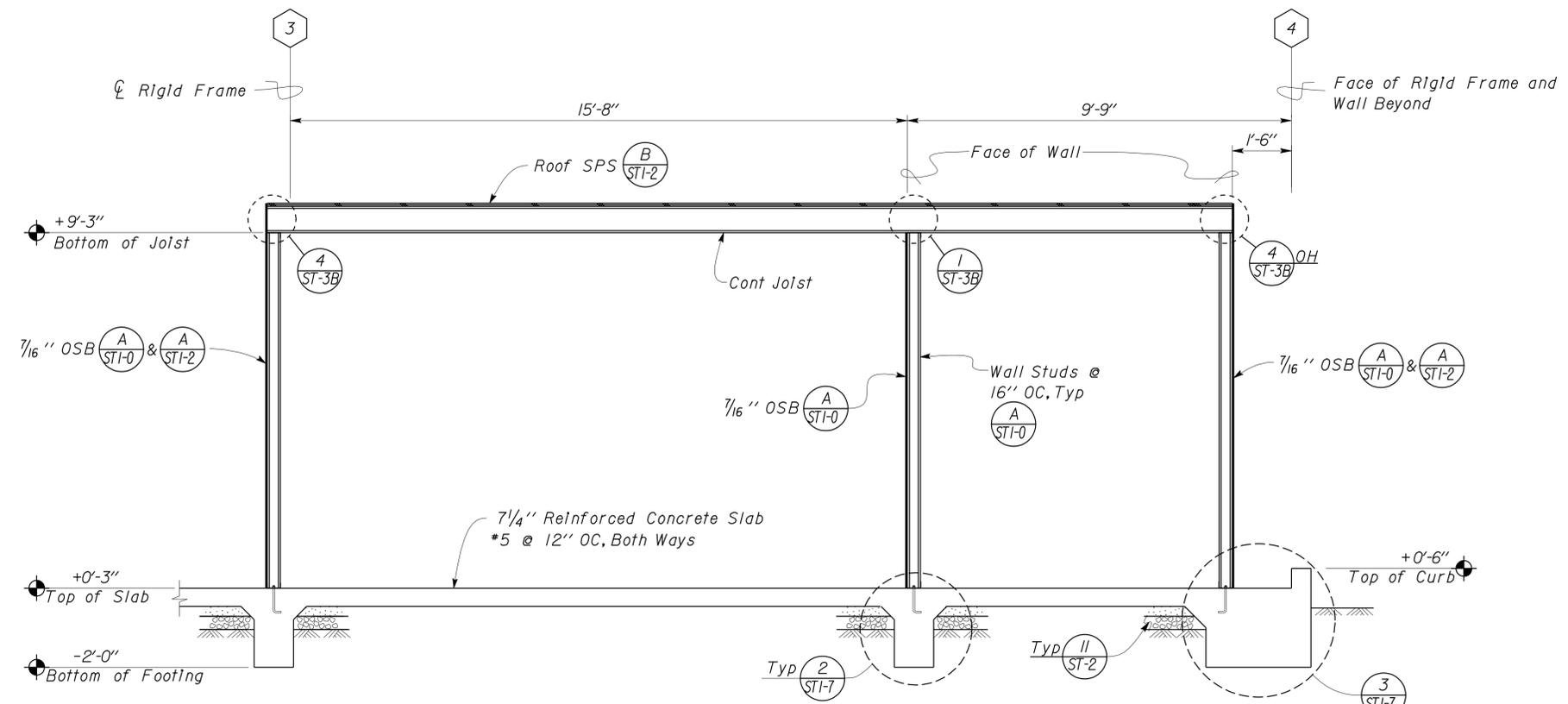
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 REGISTERED CIVIL ENGINEER			05-02-09 DATE		
1-11-10 PLANS APPROVAL DATE					
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1 BUILDING SECTION
 Scale 3/8" = 1'-0"

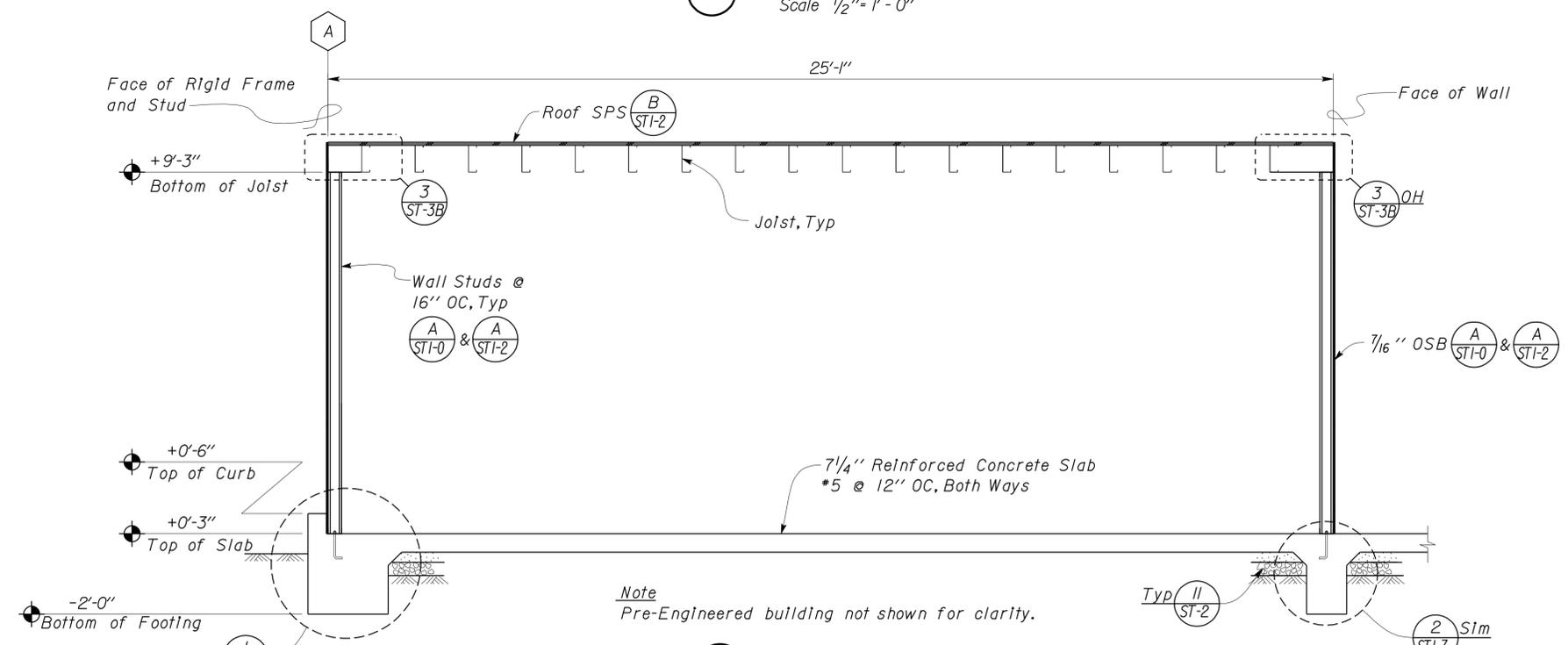
DESIGN	BY Andrew W. Corker	CHECKED Robert duPlaine	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 47M5717	SONORA JUNCTION MAINTENANCE STATION MECHANICS WORK FACILITY	SHEET ST1-4
	DETAILS	BY Janice Fujii			CHECKED Robert duPlaine		
QUANTITIES	BY	CHECKED	CU 09603 EA 315201	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF	

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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 REGISTERED CIVIL ENGINEER			05-02-09 DATE		
1-11-10 PLANS APPROVAL DATE					
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Note
Pre-Engineered building not shown for clarity.

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



Note
Pre-Engineered building not shown for clarity.

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

DESIGN	BY Andrew W. Corker	CHECKED Robert duPlaine
DETAILS	BY Janice Fujii	CHECKED Robert duPlaine
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

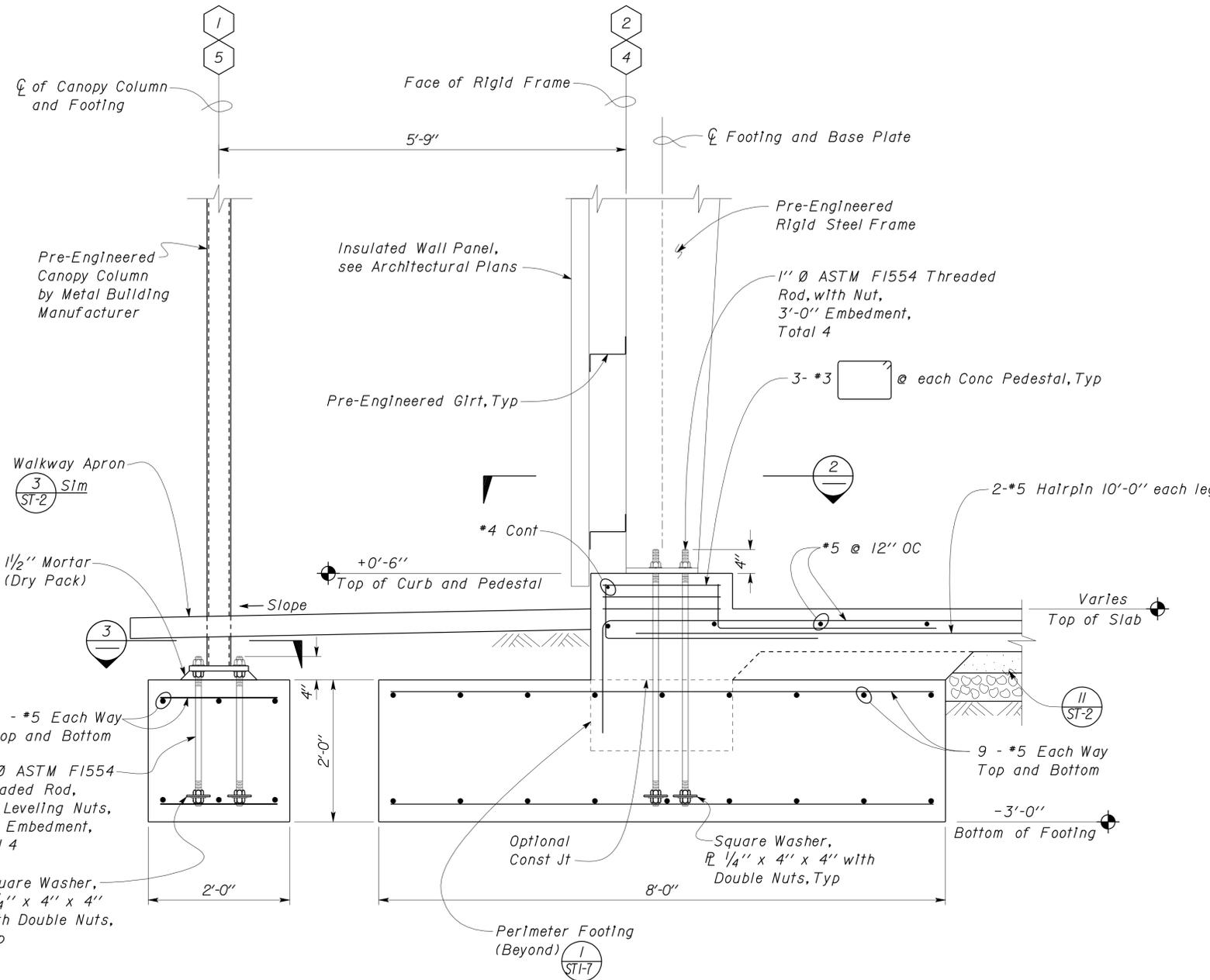
DIVISION OF ENGINEERING SERVICES
ARCHITECTURAL AND STRUCTURAL DESIGN

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POST MILE				

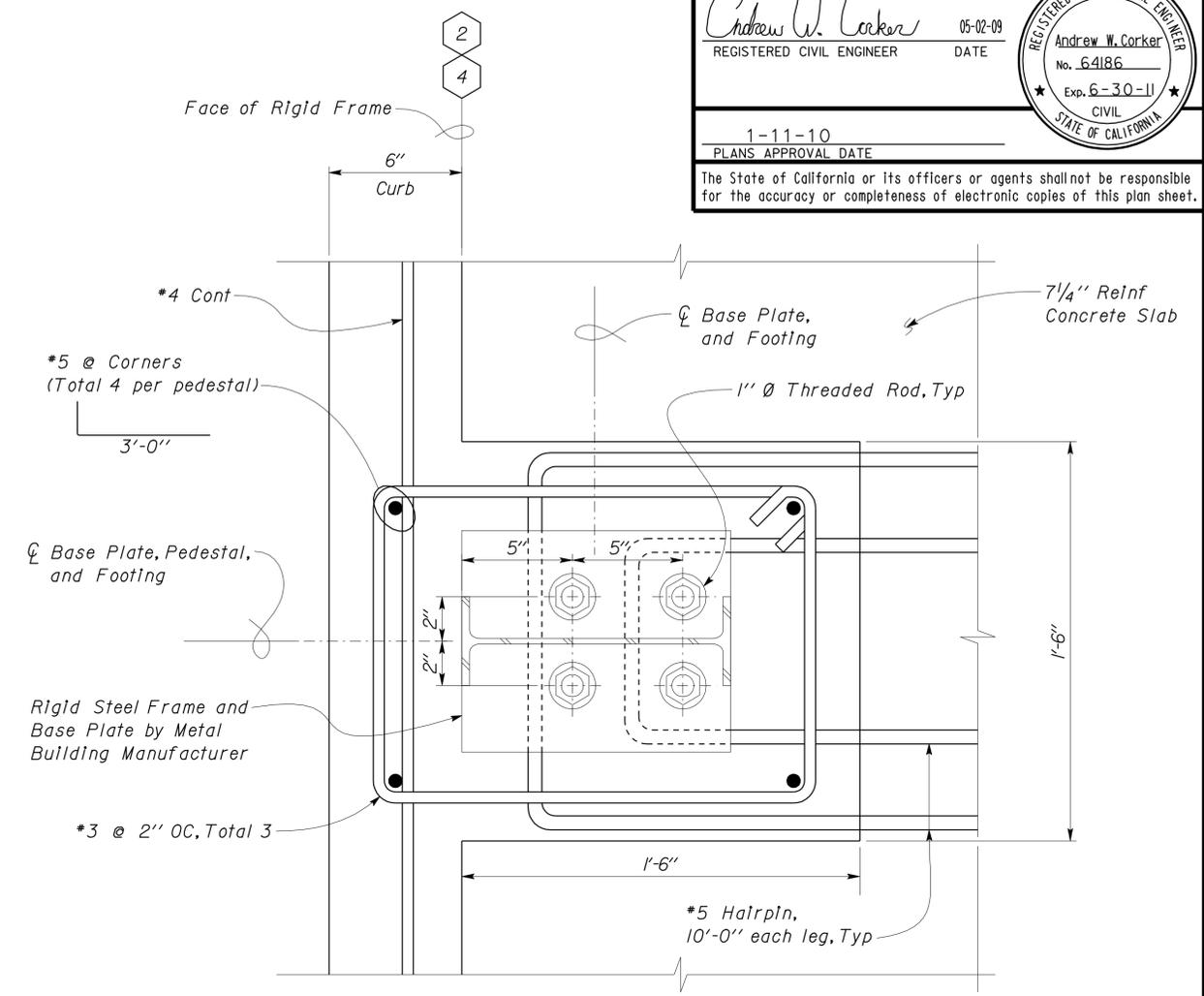
SHEET
ST1-5

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	93.8	36	82

<i>Andrew W. Corker</i>	05-02-09	REGISTERED CIVIL ENGINEER No. 64186 Exp. 6-30-11 CIVIL STATE OF CALIFORNIA
REGISTERED CIVIL ENGINEER	DATE	
1-11-10 PLANS APPROVAL DATE		
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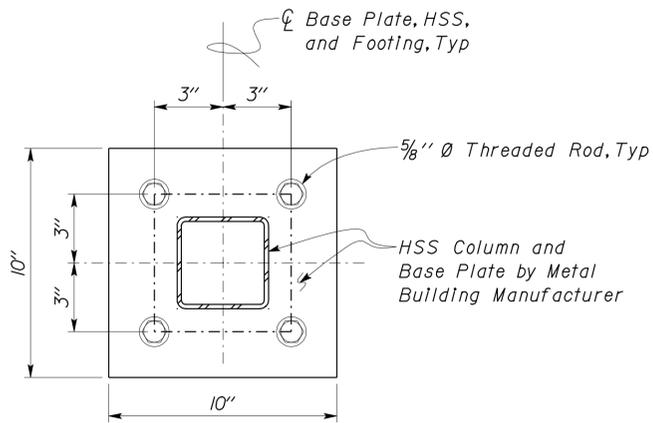


1 FRAME FOOTING DETAIL
Scale 1" = 1'-0"



2 BASEPLATE AND PEDESTAL
Scale 3" = 1'-0"

Note: Building Girts and Insulated Panels not shown for clarity.



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

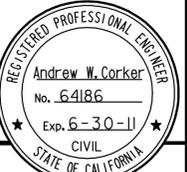
DESIGN	BY Andrew W. Corker	CHECKED Robert duPlaine
DETAILS	BY Janice Fujii	CHECKED Robert duPlaine
QUANTITIES	BY	CHECKED

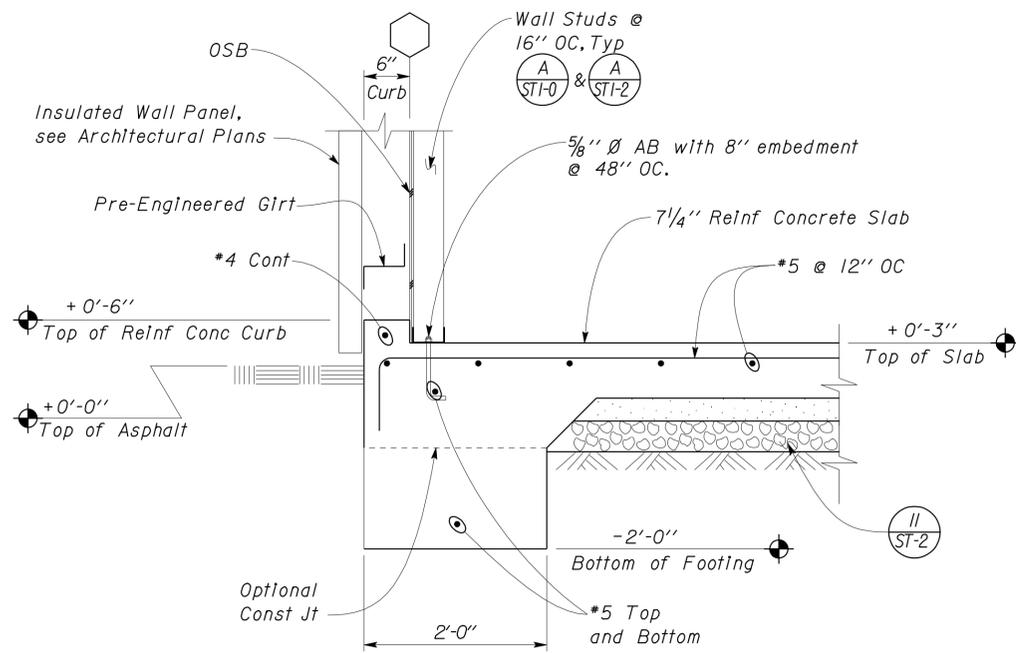
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE NO. 47M5717	SONORA JUNCTION MAINTENANCE STATION MECHANICS WORK FACILITY	SHEET ST1-6
POST MILE		
FOOTING DETAILS		

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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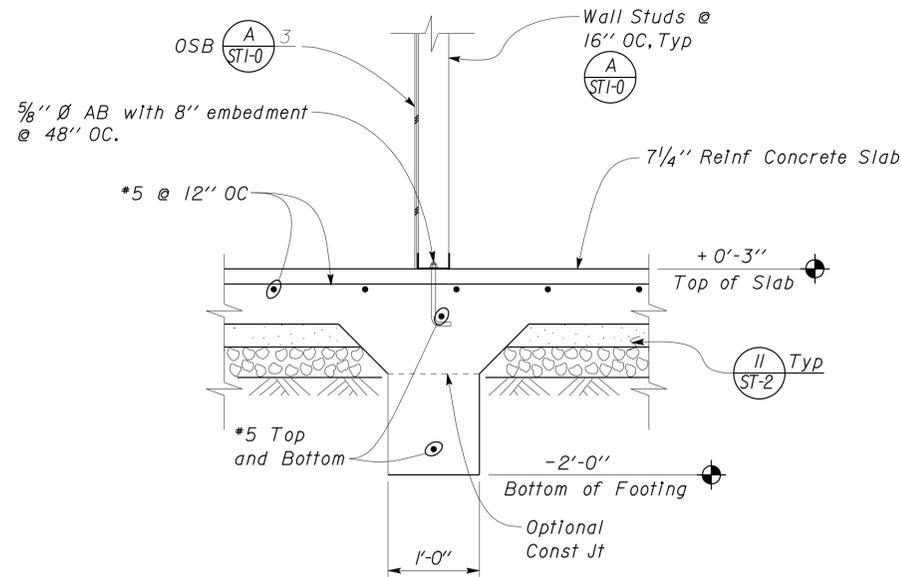
	
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PLANS APPROVAL DATE 1-11-10	
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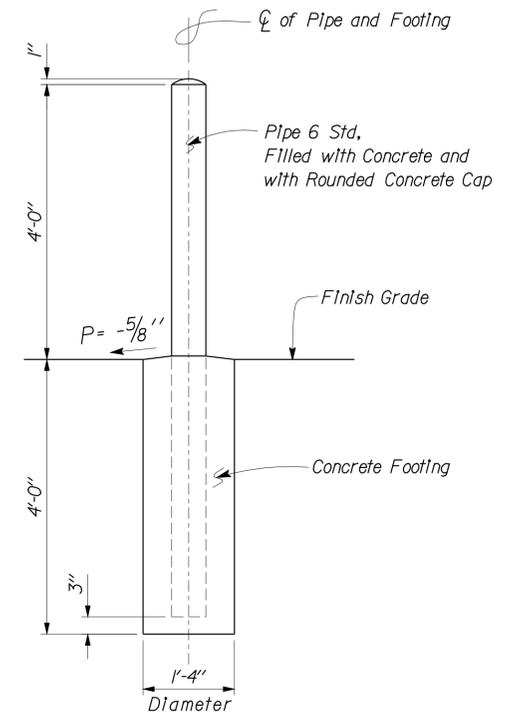
1 FOOTING DETAIL
Scale 1" = 1'-0"

Note

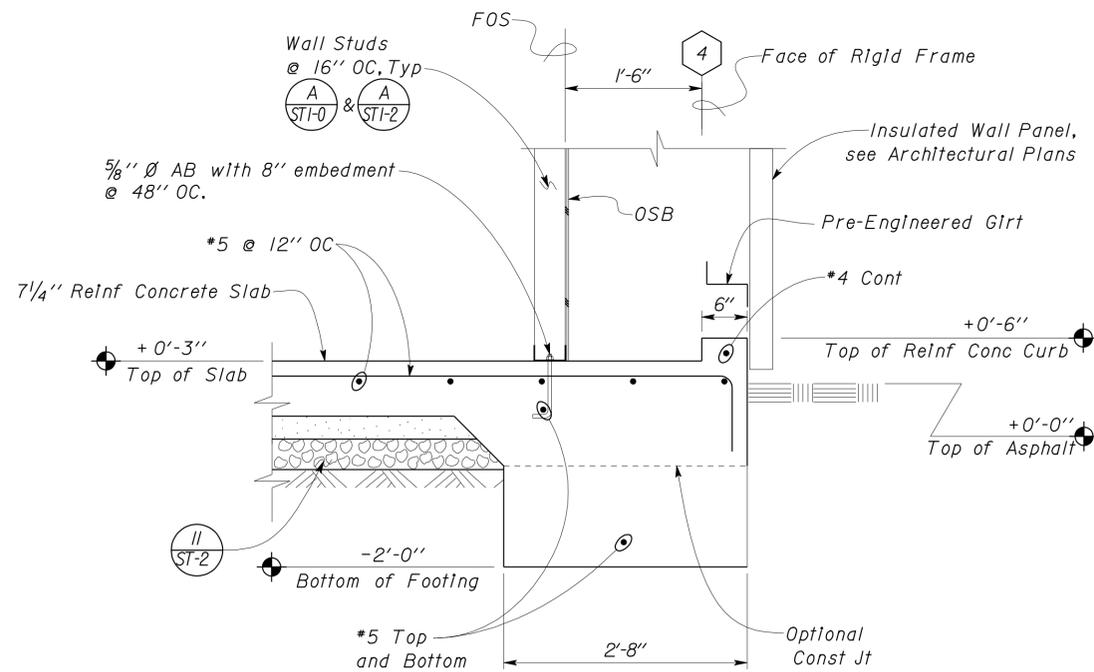
See (ST-1) for location of walkways and driveways not shown.



2 FOOTING DETAIL
Scale 1" = 1'-0"



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



3 FOOTING DETAIL
Scale 1" = 1'-0"

DESIGN	BY Andrew W. Corker	CHECKED Robert duPlaine
DETAILS	BY Janice Fujii	CHECKED Robert duPlaine
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE NO. 47M5717
POST MILE

SONORA JUNCTION MAINTENANCE STATION MECHANICS WORK FACILITY

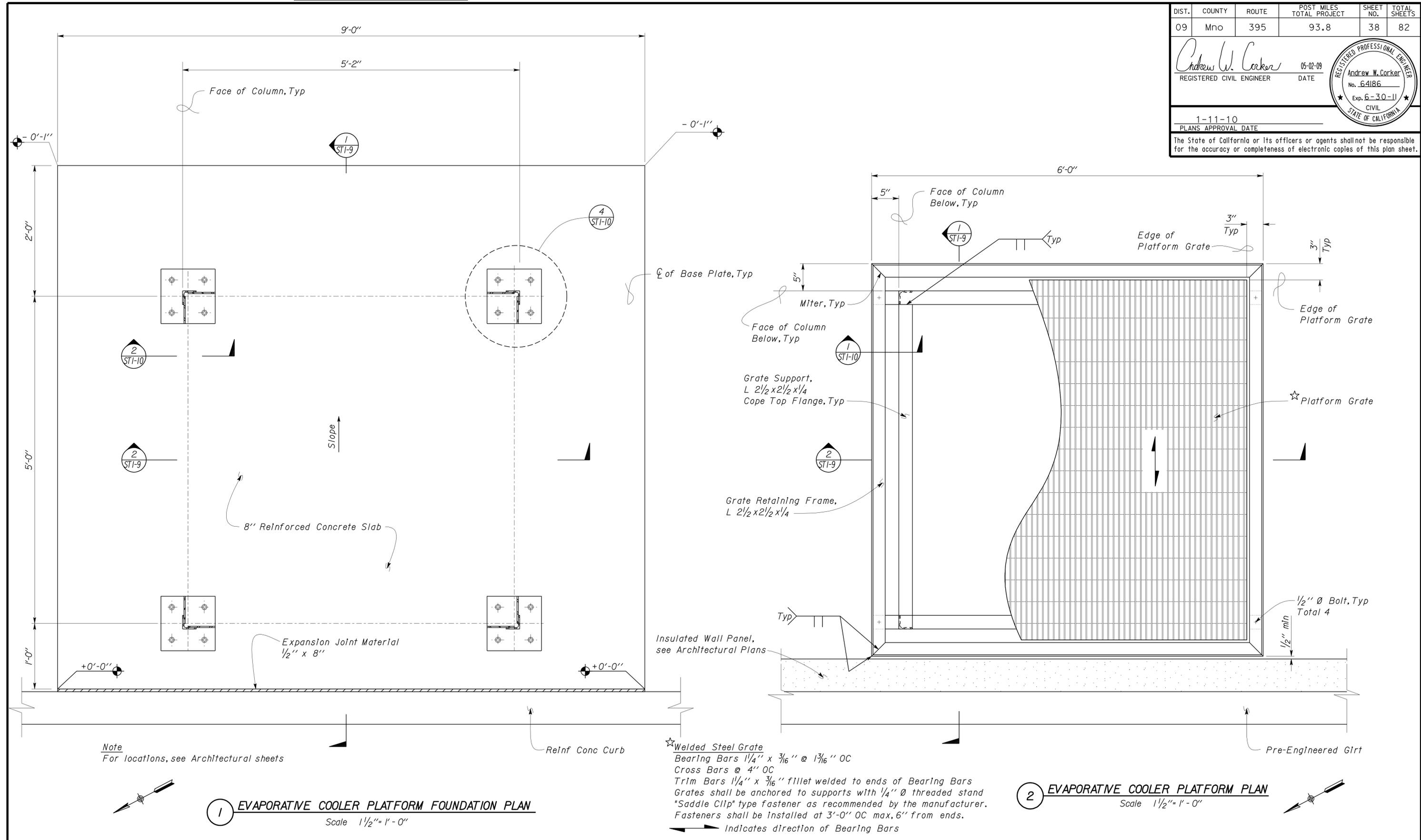
SHEET **ST1-7**

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	93.8	38	82

Andrew W. Corker
 REGISTERED CIVIL ENGINEER
 DATE 05-02-09
 Andrew W. Corker
 No. 64186
 Exp. 6-30-11
 CIVIL
 STATE OF CALIFORNIA

1-11-10
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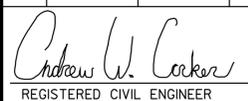
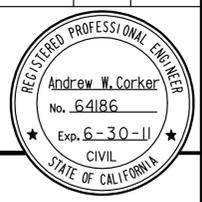


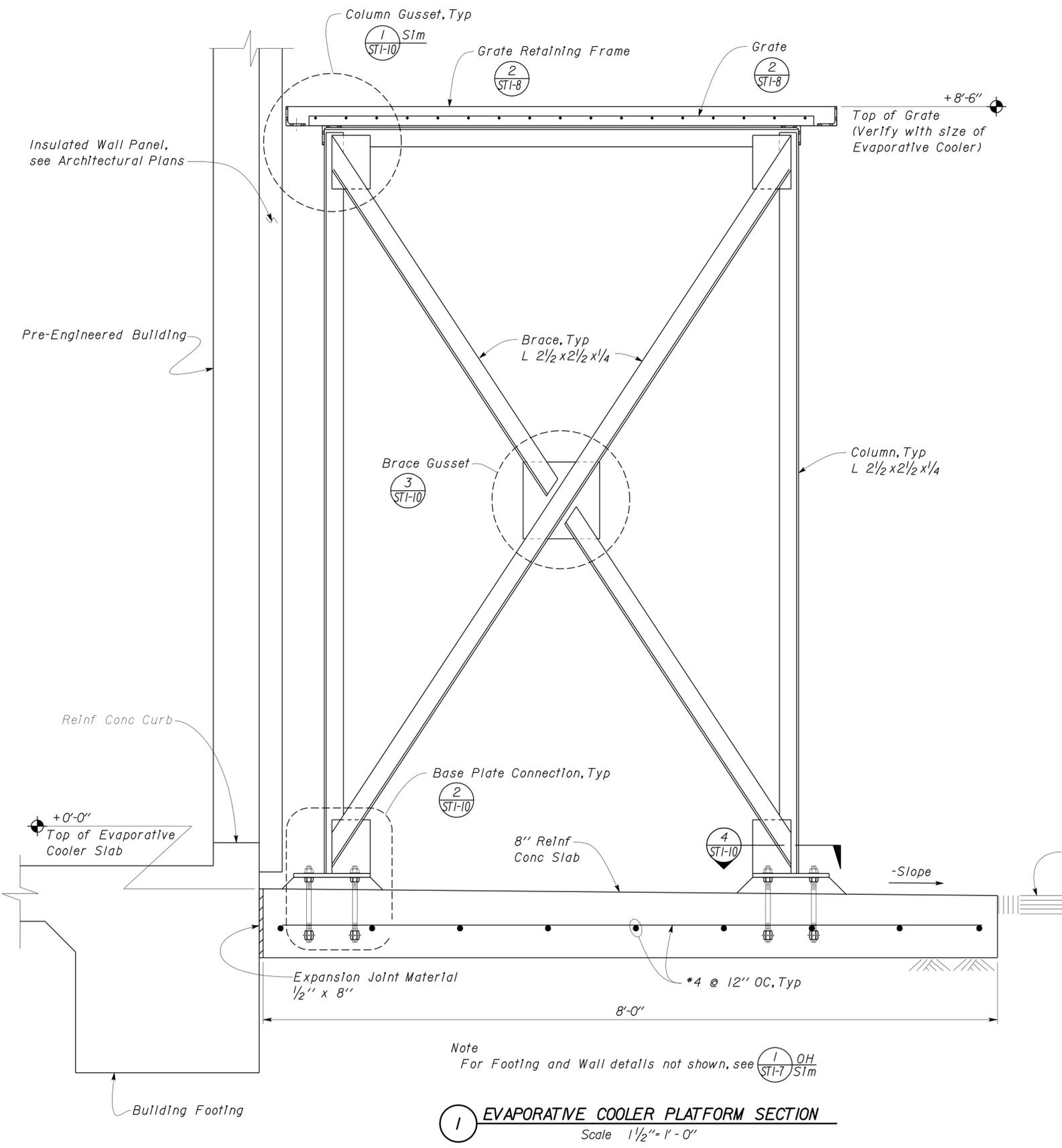
1 EVAPORATIVE COOLER PLATFORM FOUNDATION PLAN
 Scale 1 1/2" = 1'-0"

2 EVAPORATIVE COOLER PLATFORM PLAN
 Scale 1 1/2" = 1'-0"

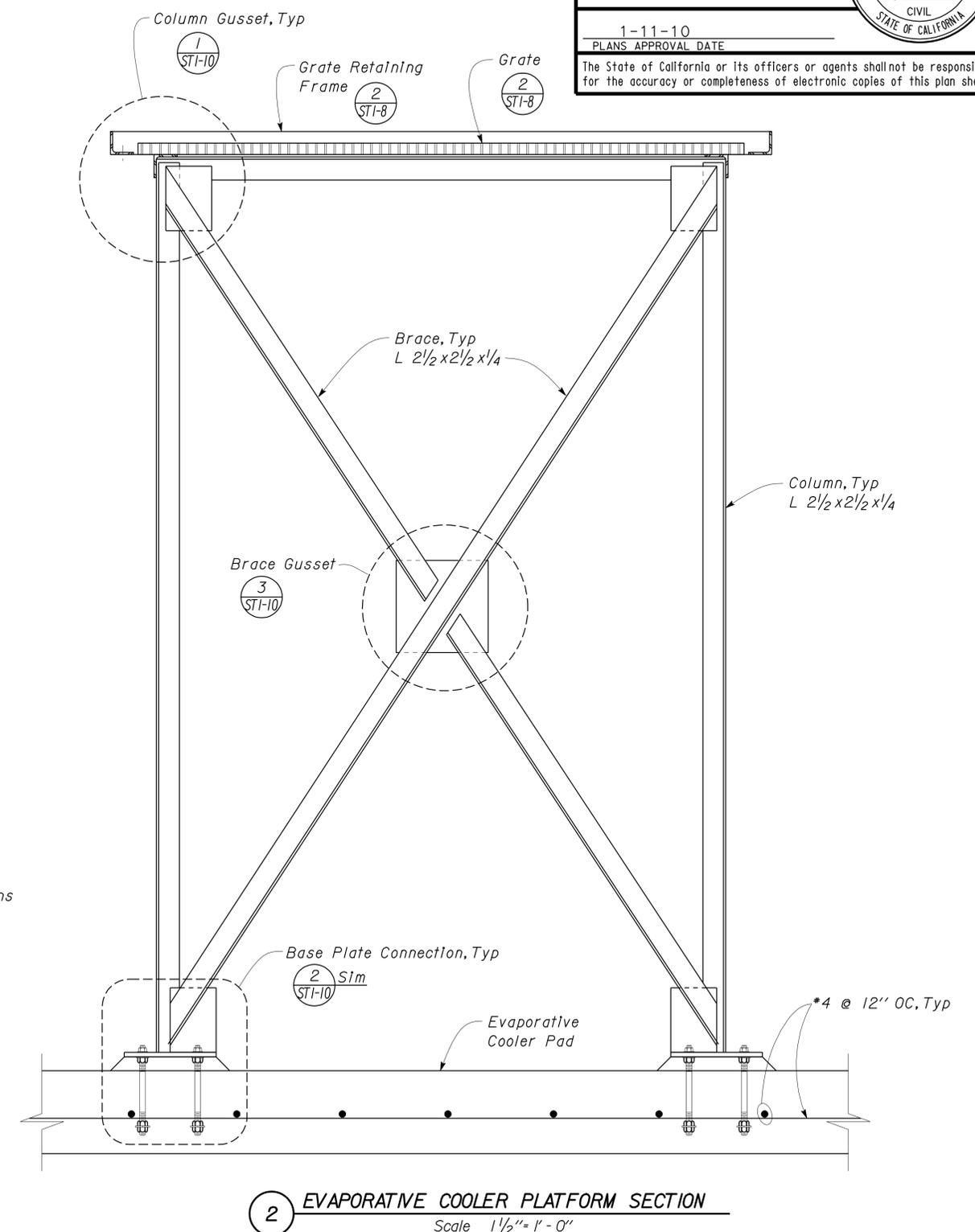
DESIGN	BY	Andrew W. Corker	CHECKED	Robert duPlaine	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 47M5717 POST MILE	SONORA JUNCTION MAINTENANCE STATION MECHANICS WORK FACILITY	EVAPORATIVE COOLER PLATFORM PLANS	SHEET ST1-8
	DETAILS	BY	Janice Fujii	CHECKED						
QUANTITIES	BY		CHECKED		CU 09603 EA 315201	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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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	93.8	39	82
 REGISTERED CIVIL ENGINEER			05-02-09	DATE	
			1-11-10 PLANS APPROVAL DATE		
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1 EVAPORATIVE COOLER PLATFORM SECTION
 Scale 1 1/2" = 1' - 0"



2 EVAPORATIVE COOLER PLATFORM SECTION
 Scale 1 1/2" = 1' - 0"

DESIGN	BY Andrew W. Corker	CHECKED Robert duPlaine
DETAILS	BY Janice Fujii	CHECKED Robert duPlaine
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE NO. 47M5717
 POST MILE

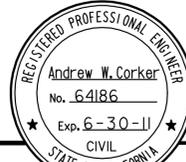
SONORA JUNCTION MAINTENANCE STATION MECHANICS WORK FACILITY
 EVAPORATIVE COOLER PLATFORM ELEVATIONS

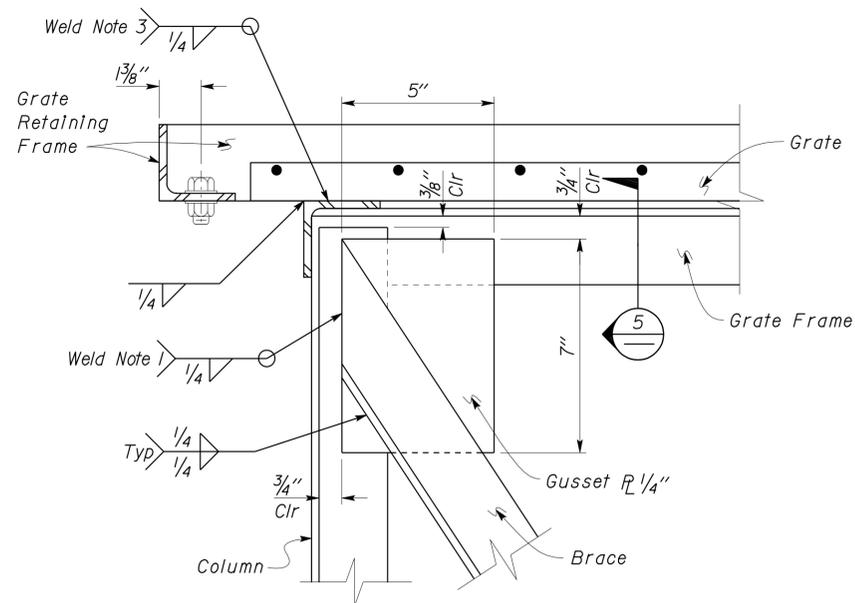
SHEET **ST1-9** OF

Weld Notes

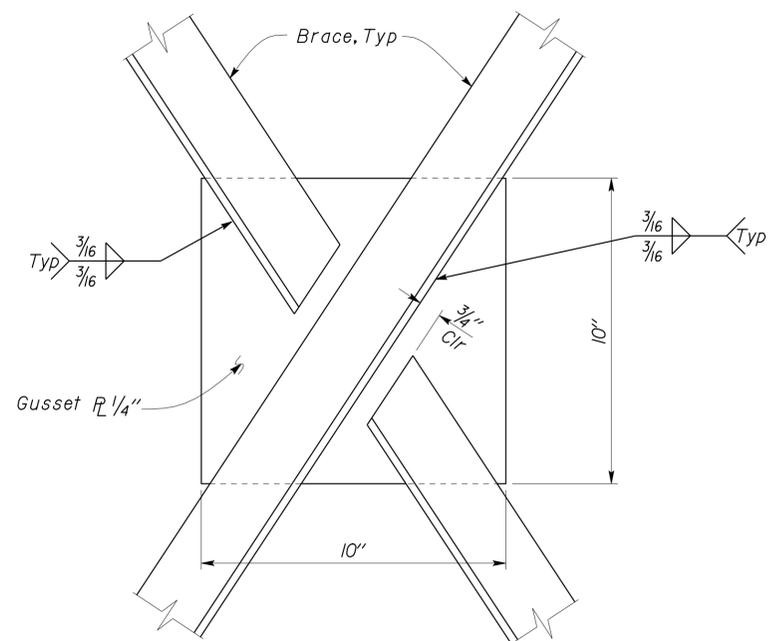
1. Weld Gusset Plate to Column
2. Weld Gusset Plate to Base Plate
3. Weld Column to Grate Frame

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	93.8	40	82

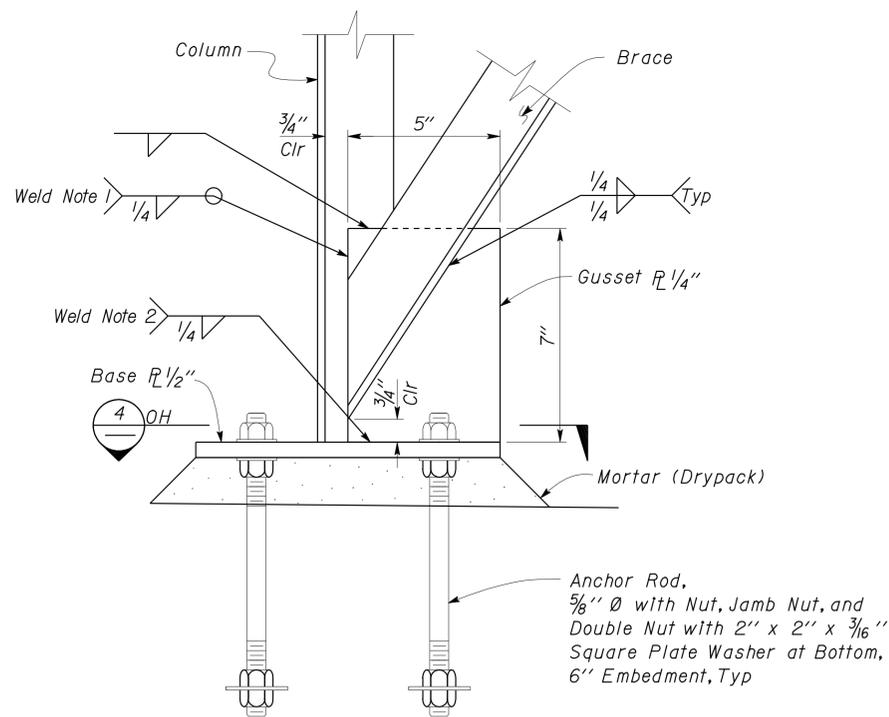
	Andrew W. Corker REGISTERED CIVIL ENGINEER DATE 05-02-09
1-11-10 PLANS APPROVAL DATE	
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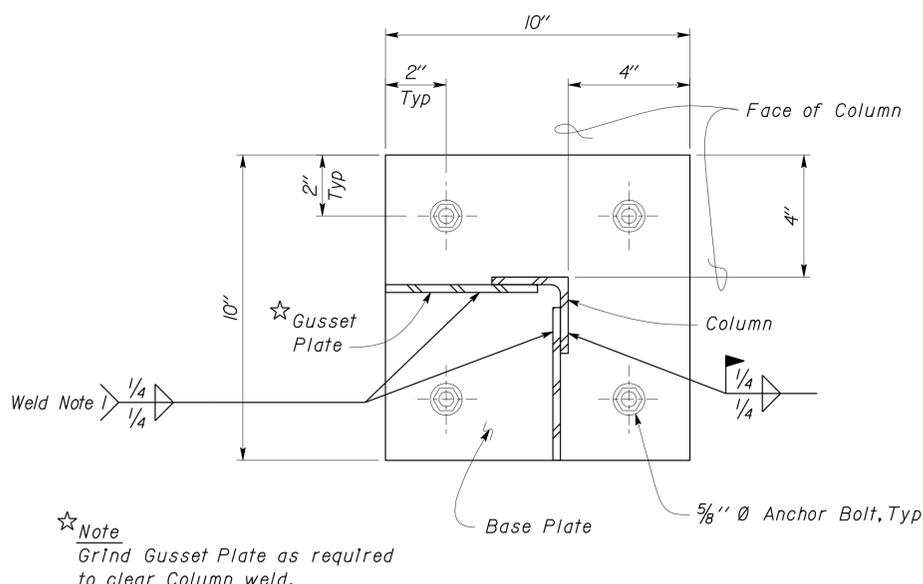
1 GRATE FRAME CONNECTION
Scale 4" = 1' - 0"



3 BRACE INTERSECTION
Scale 4" = 1' - 0"

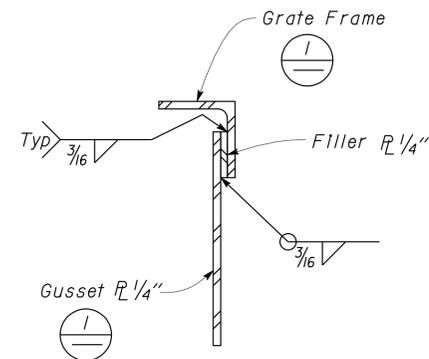


2 BASE PLATE CONNECTION
Scale 4" = 1' - 0"



☆ Note
Grind Gusset Plate as required to clear Column weld.

4 BASE PLATE DETAIL
Scale 4" = 1' - 0"



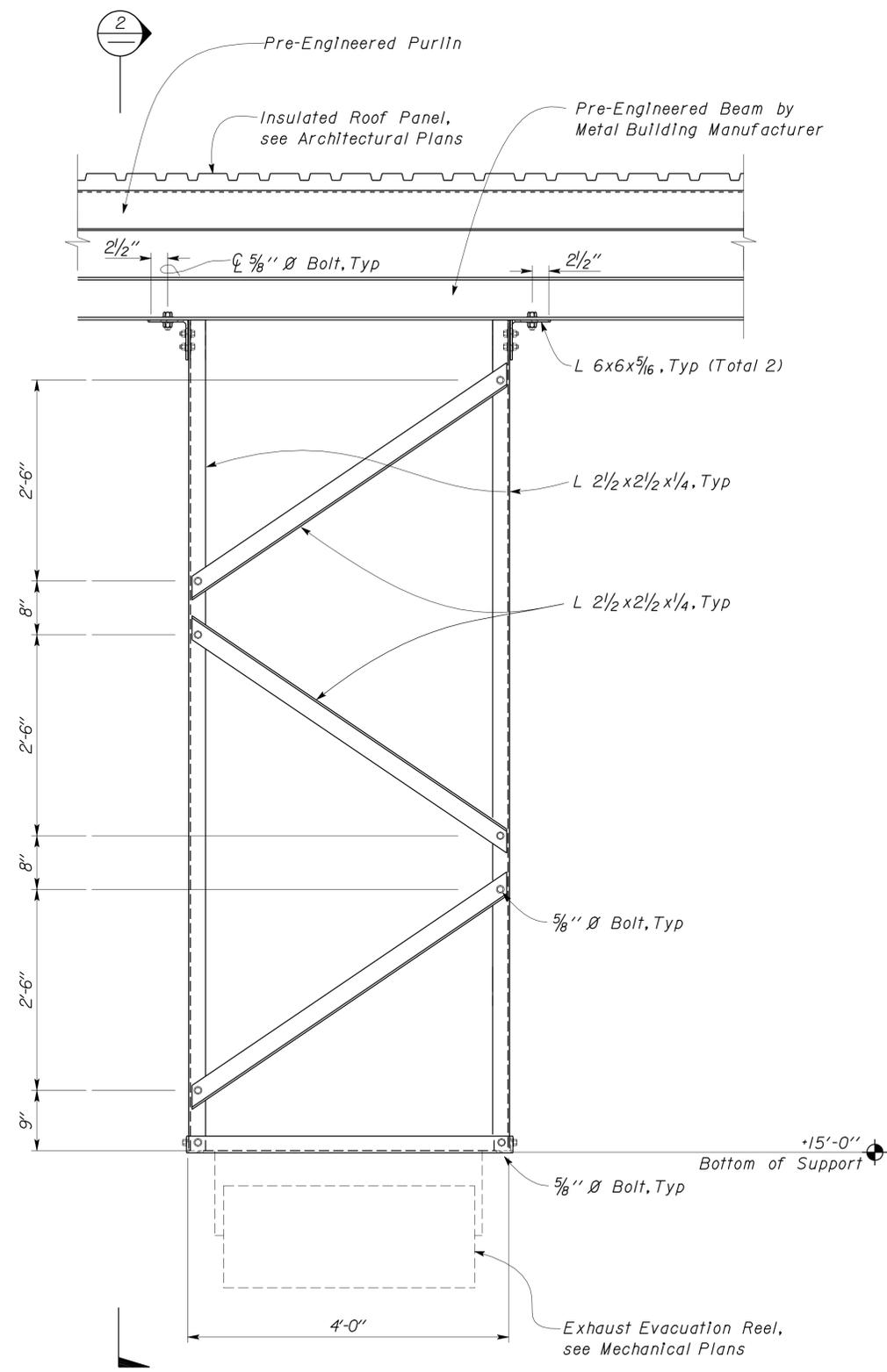
5 FILLER DETAILS
Scale 4" = 1' - 0"

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	93.8	41	82

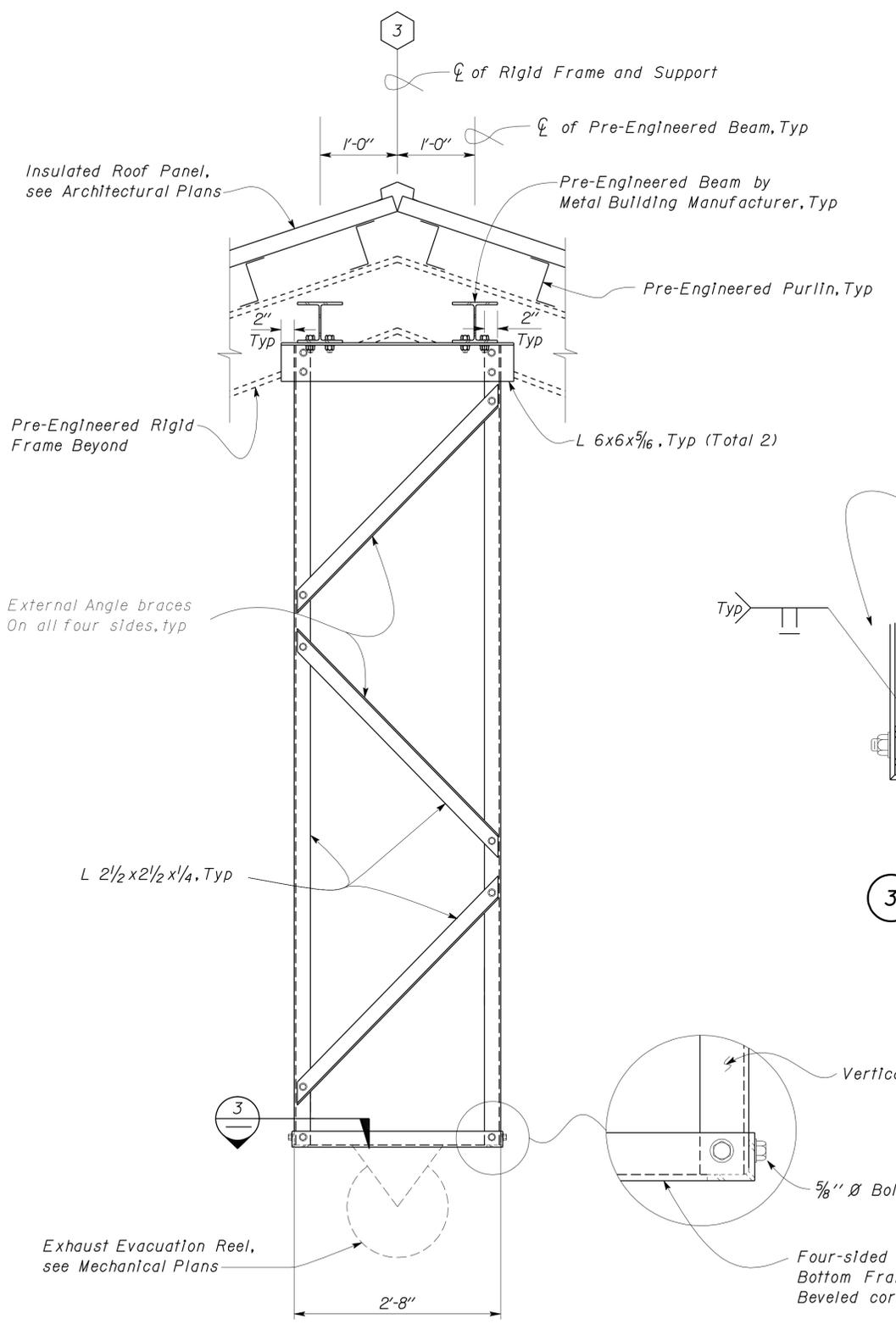
<i>Andrew W. Corker</i>		05-02-09
REGISTERED CIVIL ENGINEER	DATE	

1-11-10
PLANS APPROVAL DATE

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

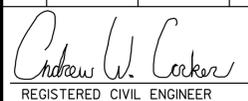
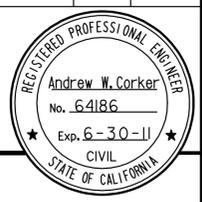


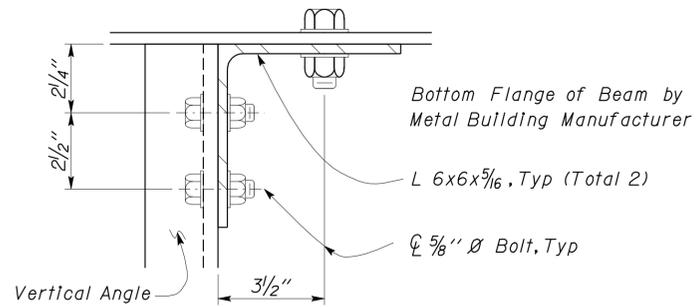
1 EXHAUST EVACUATION SUPPORT
Scale 1" = 1' - 0"



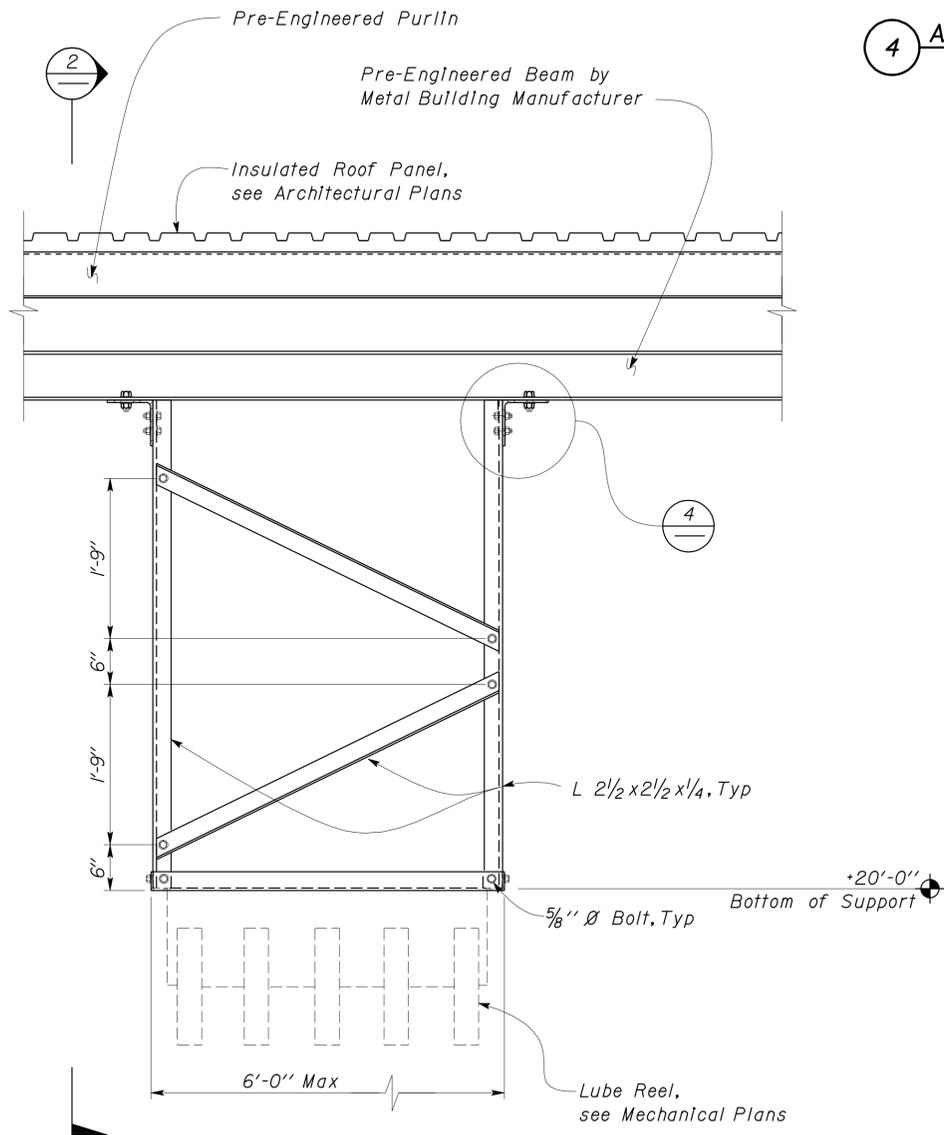
2 EXHAUST EVACUATION SUPPORT
Scale 1" = 1' - 0"

DESIGN	BY Andrew W. Corker	CHECKED Robert duPlaine	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 47M5717	SONORA JUNCTION MAINTENANCE STATION MECHANICS WORK FACILITY	SHEET ST1-11
	DETAILS	BY Janice Fujii			CHECKED Robert duPlaine		
QUANTITIES	BY	CHECKED	CU 09603 EA 315201	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF	

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	93.8	42	82
 REGISTERED CIVIL ENGINEER			05-02-09 DATE		
1-11-10 PLANS APPROVAL DATE					
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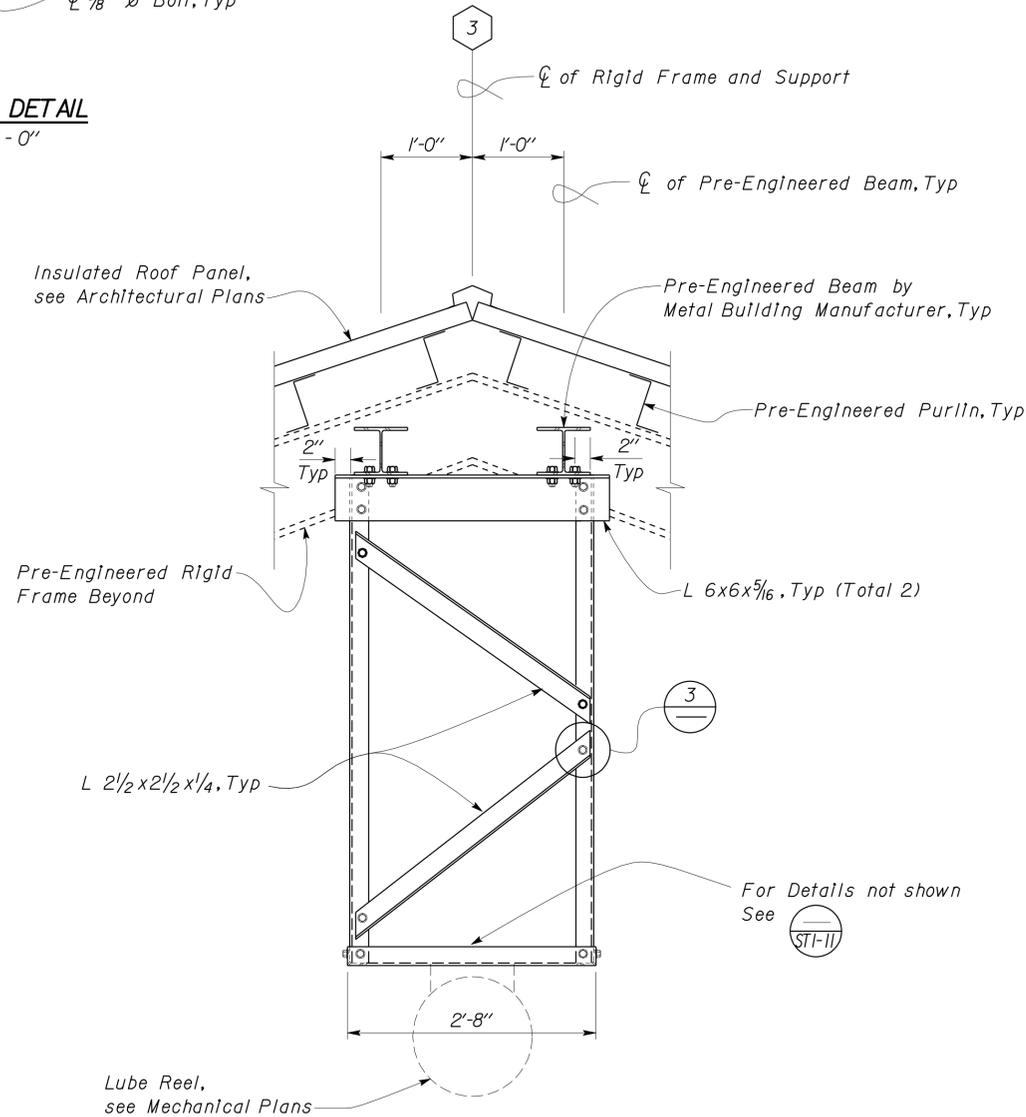


4 ANGLE BOLT DETAIL
Scale 4" = 1' - 0"

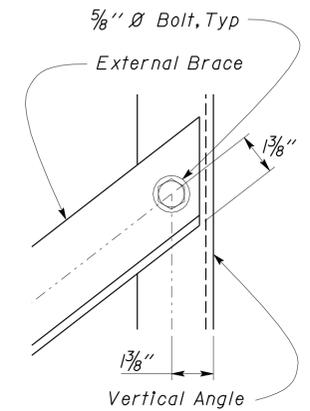


Note
Pre-Engineered Rigid Frame Not Shown For Clarity.

1 LUBE REEL SUPPORT
Scale 1" = 1' - 0"



2 LUBE REEL SUPPORT
Scale 1" = 1' - 0"

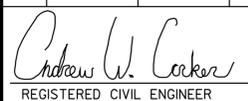
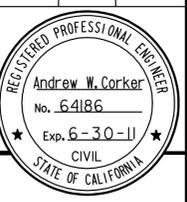


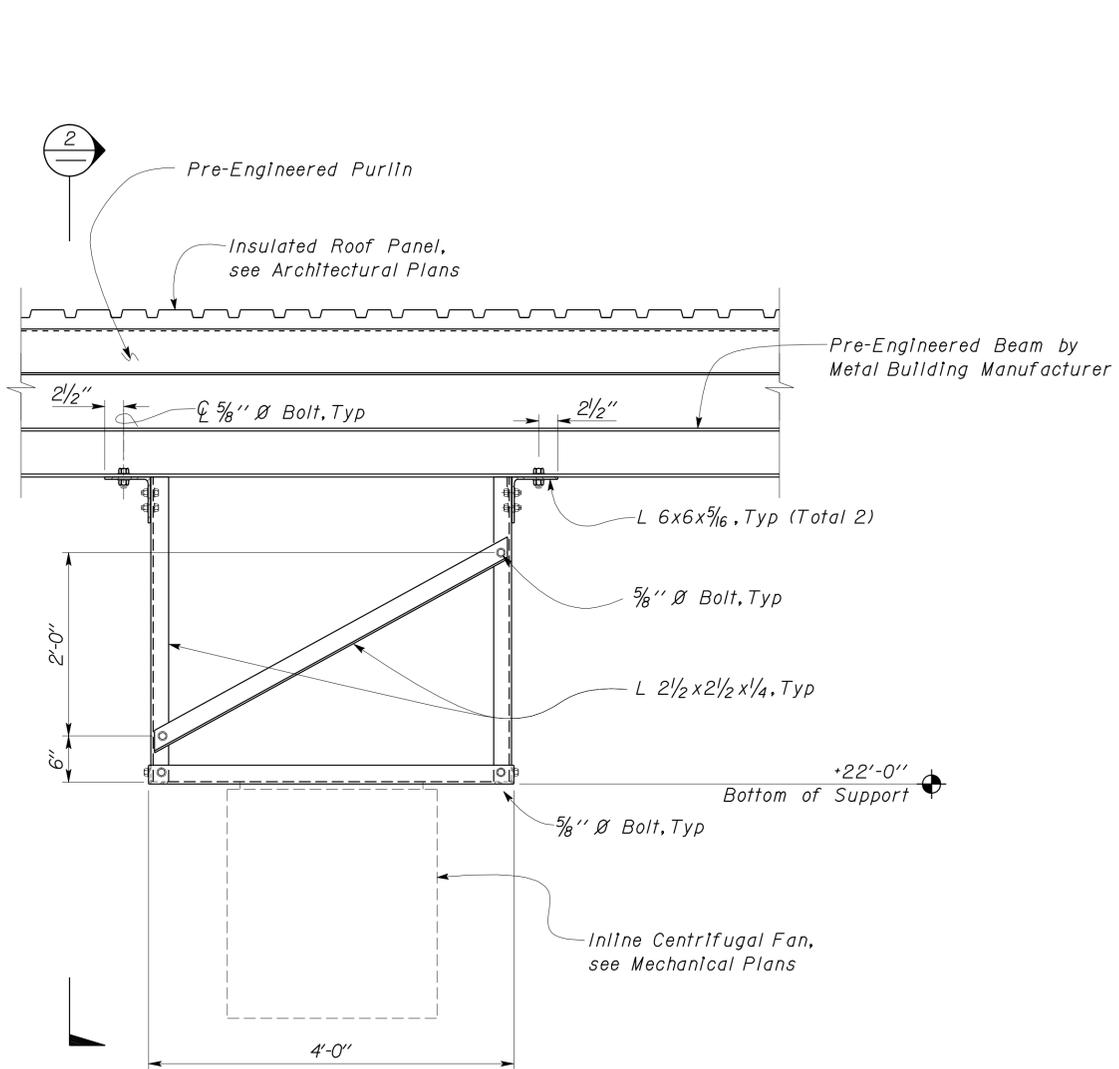
3 BOLTING DETAIL
Scale 4" = 1' - 0"

DESIGN	BY Andrew W. Corker	CHECKED Robert duPlaine
DETAILS	BY Janice Fujii	CHECKED Robert duPlaine
QUANTITIES	BY	CHECKED

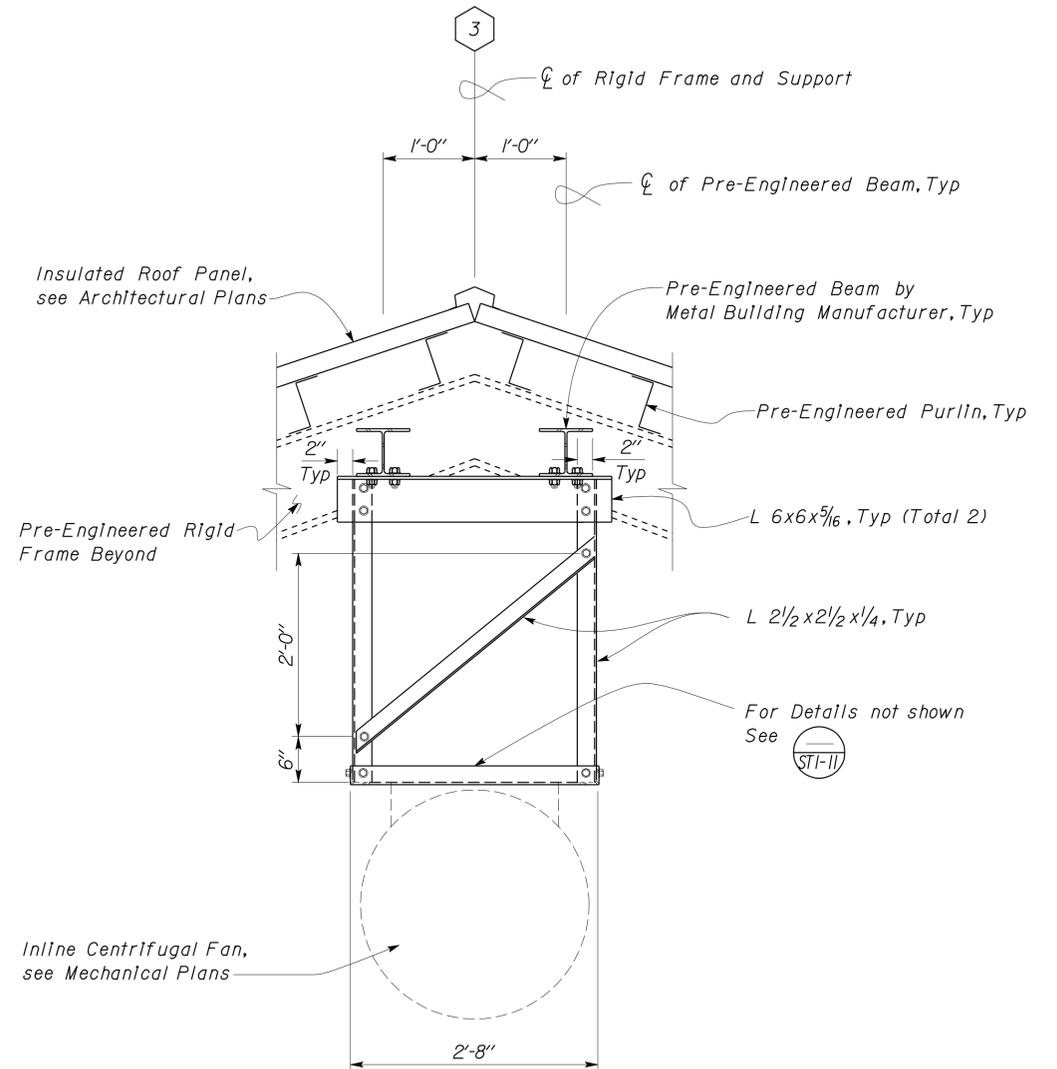
STATE OF CALIFORNIA	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 47M5717	SONORA JUNCTION MAINTENANCE STATION MECHANICS WORK FACILITY	SHEET OF ST1-12
DEPARTMENT OF TRANSPORTATION	ARCHITECTURAL AND STRUCTURAL DESIGN	POST MILE		

CU 09603	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
EA 315201	05-01-09 06-08-09 06-17-09		

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	93.8	43	82
 REGISTERED CIVIL ENGINEER			05-02-09 DATE		
1-11-10 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					

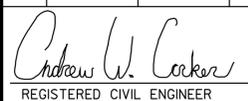
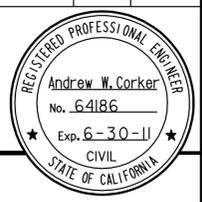


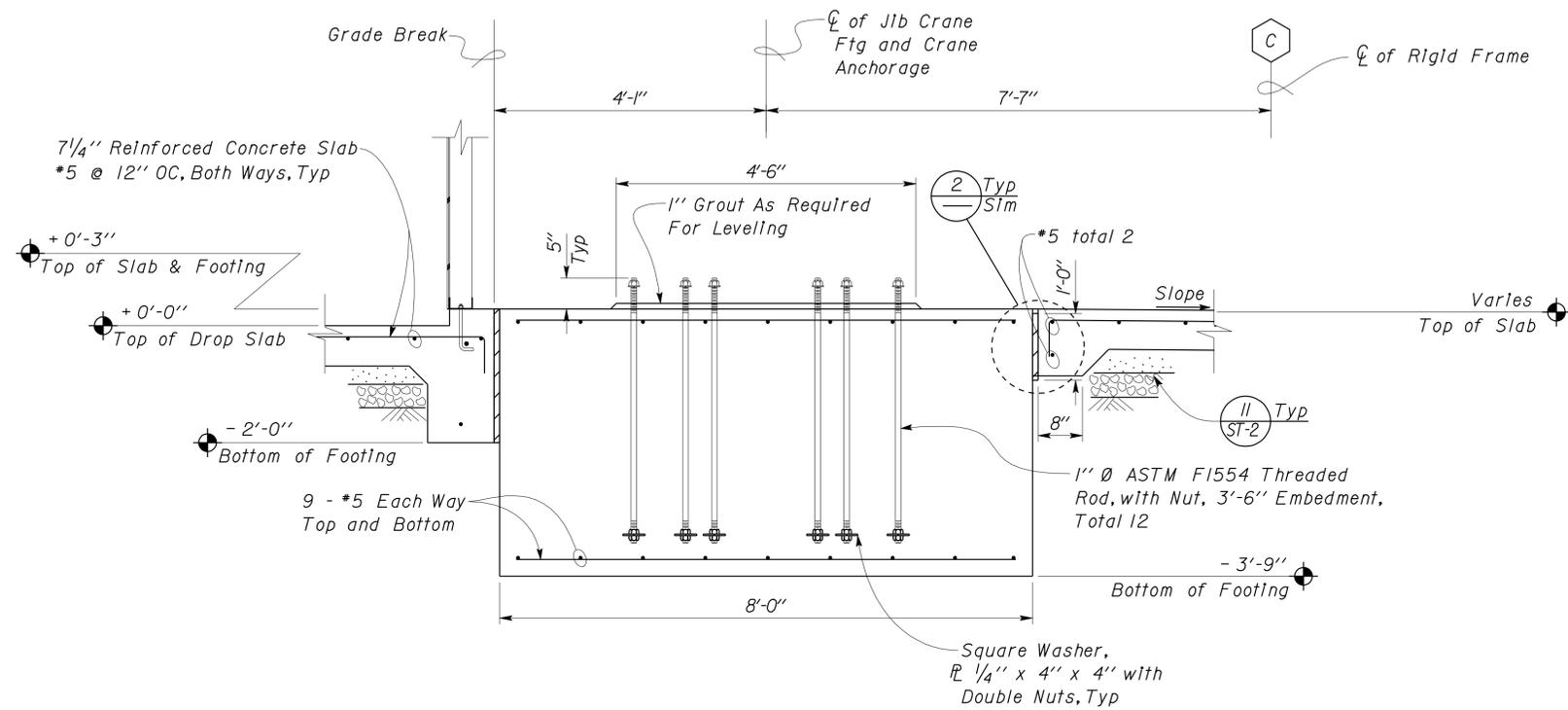
1 INLINE CENTRIFUGAL FAN SUPPORT
Scale 1" = 1'-0"

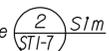


2 INLINE CENTRIFUGAL FAN SUPPORT
Scale 1" = 1'-0"

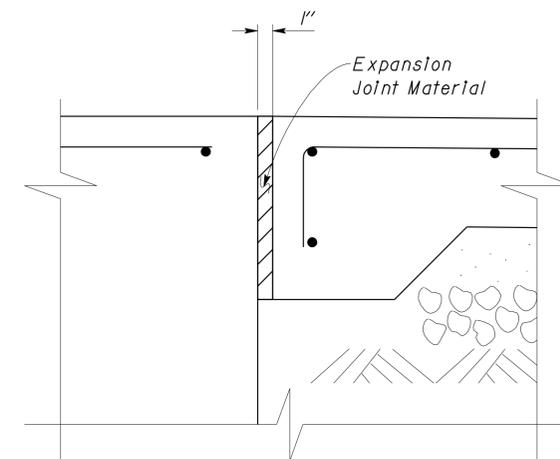
DESIGN	BY	Andrew W. Corker	CHECKED	Robert duPlaine	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 47M5717 POST MILE	SONORA JUNCTION MAINTENANCE STATION MECHANICS WORK FACILITY	SHEET ST1-13				
	DETAILS	BY	Janice Fujii	CHECKED						Robert duPlaine			
QUANTITIES	BY		CHECKED		CU 09603 EA 315201		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)				
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0	1	2	3	05-01-09	06-08-09	06-17-09	SHEET	OF

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	93.8	45	82
 REGISTERED CIVIL ENGINEER			05-02-09 DATE		
1-11-10 PLANS APPROVAL DATE					
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Note
For Office Footing and Wall Details Not Shown, See  Sim

 **FOOTING DETAIL**
Scale 3/4" = 1'-0"



Note
For Details Not Shown, See 

 **EXPANSION JOINT DETAIL**
Scale 2" = 1'-0"

DESIGN	BY Andrew W. Corker	CHECKED Robert duPlaine
DETAILS	BY Janice Fujii	CHECKED Robert duPlaine
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE NO.	47M5717
POST MILE	

SONORA JUNCTION MAINTENANCE STATION MECHANICS WORK FACILITY
JIB CRANE FOOTING/SLAB DETAILS 2

SHEET **ST1-15**

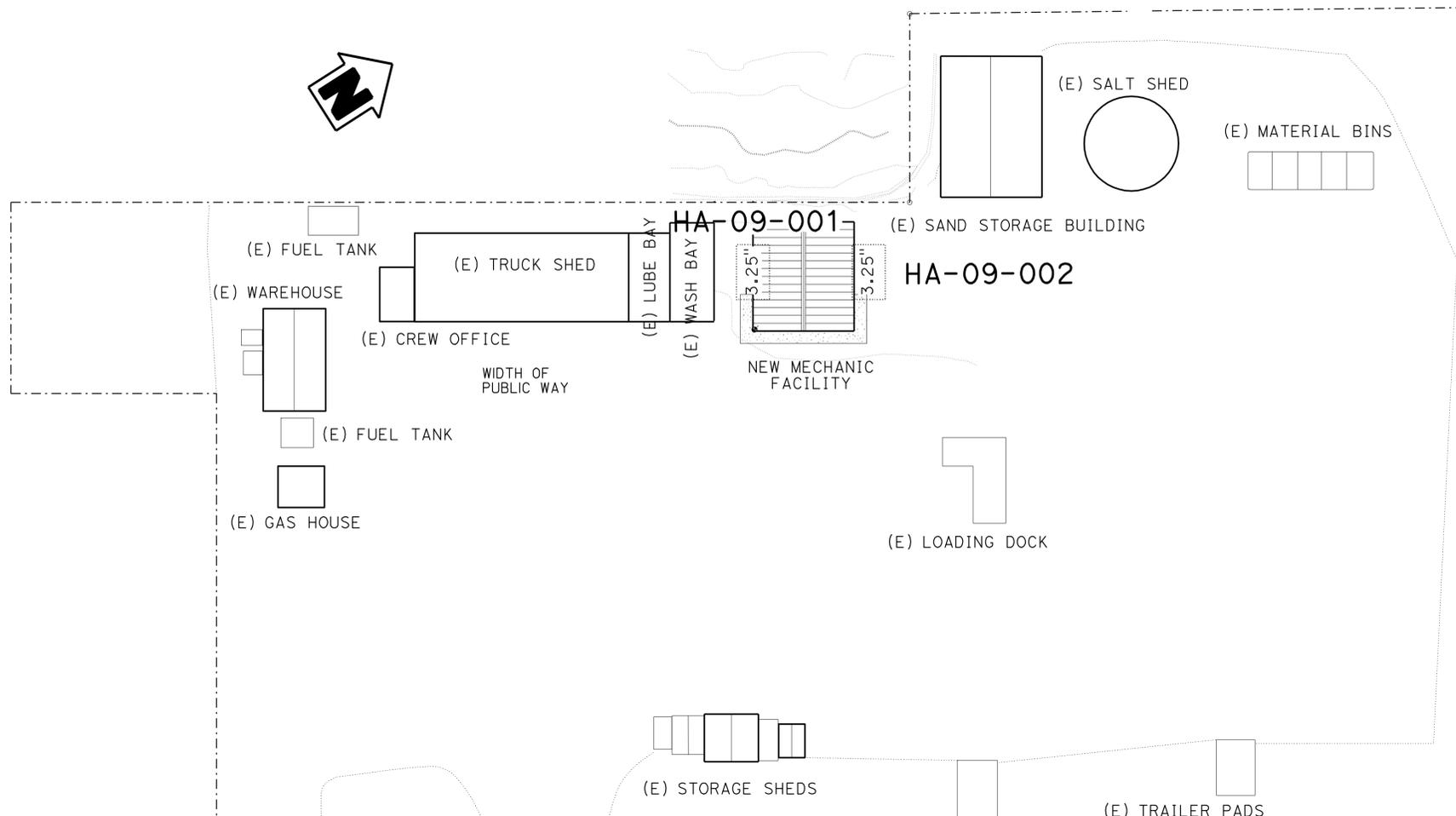
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
09	Mno	395	93.8	46	82

 12-14-09
 REGISTERED CIVIL ENGINEER DATE
 1-11-10
 PLANS APPROVAL DATE
 Naxin Song
 No. C69325
 Exp. 6-30-2010
 STATE OF CALIFORNIA

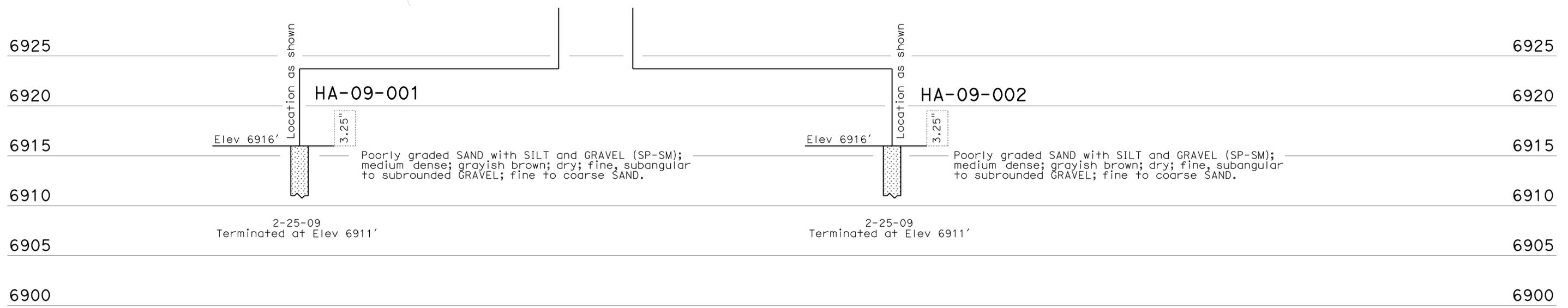
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.
 KLEINFELDER INC.
 3077 FITE CIR.
 SACRAMENTO, CA 95827

This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, and Presentation Manual (June 2007).

Note: Groundwater was not encountered.



PLAN
SCALE: 1" = 40'



PROFILE
SCALE: HORIZ 1" = 5'
VERT 1" = 5'

DESIGN OVERSIGHT ENGINEER:		SIGN OFF DATE:		PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		BRIDGE NO.		SONORA JUNCTION MAINTENANCE STATION LOG OF TEST BORINGS 1 OF 3					
FUNCTIONAL SUPERVISOR		DRAWN BY: A. Sanchez				FIELD INVESTIGATION BY:						N/A	
NAME: Q. Huang		CHECKED BY: C. Zhen		T. Song Feb 2009		POST MILES		REVISION DATES					
065 CIVIL LOG OF TEST BORINGS SHEET		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3		CU 09 EA 315201		DISREGARD PRINTS BEARING EARLIER REVISION DATES		5-18-09 8-1-09 8-24-09		SHEET OF	

USERNAME => hfmikes DATE PLOTTED => 13-JAN-2010 TIME PLOTTED => 13:17

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
09	Mno	395	93.8	47	82

12-14-09
REGISTERED CIVIL ENGINEER DATE

1-11-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER

Naxin Song

No. C69325

Exp. 6-30-2010

STATE OF CALIFORNIA

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KLEINFELDER INC.
3077 FITE CIR.
SACRAMENTO, CA 95827

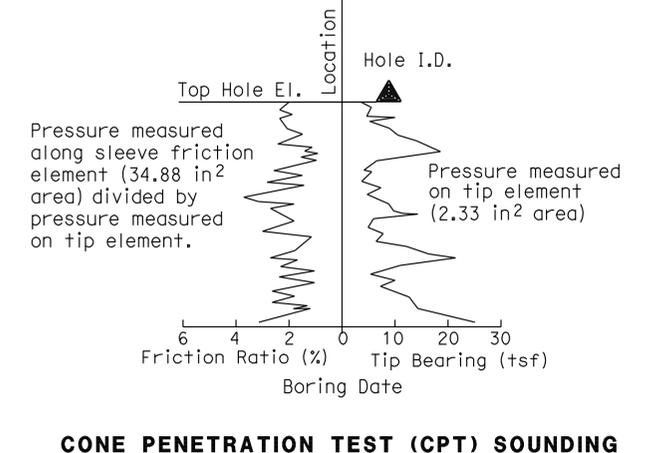
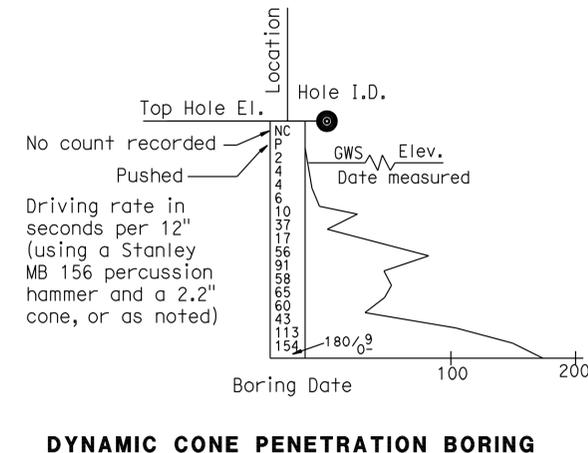
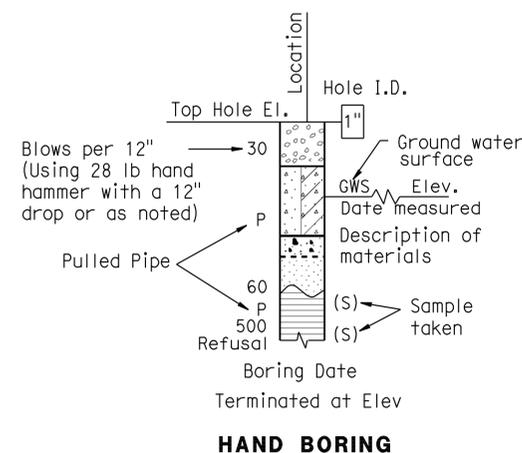
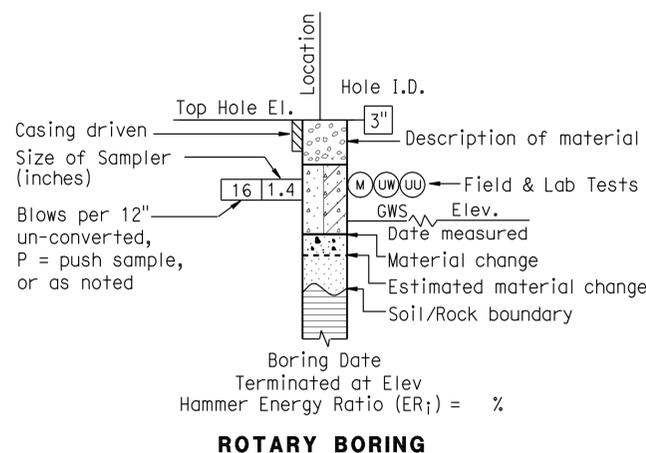
CEMENTATION	
Description	Criteria
Weak	Crumbles or breaks with handling or little finger pressure.
Moderate	Crumbles or breaks with considerable finger pressure.
Strong	Will not crumble or break with finger pressure.

CONSISTENCY OF COHESIVE SOILS				
Description	Unconfined Compressive Strength (tsf)	Pocket Penetrometer Measurement (tsf)	Torvane Measurement (tsf)	Field Approximation
Very Soft	< 0.25	< 0.25	< 0.12	Easily penetrated several inches by fist
Soft	0.25 to 0.50	0.25 to 0.50	0.12 to 0.25	Easily penetrated several inches by thumb
Medium Stiff	0.50 to 1.0	0.50 to 1.0	0.25 to 0.50	Penetrated several inches by thumb with moderate effort
Stiff	1 to 2	1 to 2	0.50 to 1.0	Readily indented by thumb but penetrated only with great effort
Very Stiff	2 to 4	2 to 4	1.0 to 2.0	Readily indented by thumbnail
Hard	> 4.0	> 4.0	> 2.0	Indented by thumbnail with difficulty

BOREHOLE IDENTIFICATION		
Symbol	Hole Type	Description
	A	Auger Boring
	R	Rotary drilled boring
	P	Rotary percussion boring (air)
	R	Rotary drilled diamond core
	HD	Hand driven (1-inch soil tube)
	HA	Hand Auger
	D	Dynamic Cone Penetration Boring
	CPT	Cone Penetration Test (ASTM D 5778-95)
	O	Other

Note: Size in inches.

PLASTICITY OF FINE-GRAINED SOILS	
Description	Criteria
Nonplastic	A 1/8-inch thread cannot be rolled at any water content.
Low	The thread can barely be rolled and the lump cannot be formed when drier than the plastic limit.
Medium	The thread is easy to roll and not much time is required to reach the plastic limit. The thread cannot be rerolled after reaching the plastic limit. The lump crumbles when drier than the plastic limit.
High	It takes considerable time rolling and kneading to reach the plastic limit. The thread can be rerolled several times after reaching the plastic limit. The lump can be formed without crumbling when drier than the plastic limit.



DESIGN OVERSIGHT ENGINEER:	SIGN OFF DATE:
PREPARED BY: A. Sanchez	
CHECKED BY: C. Zhen	

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Andrew Corker
PROJECT ENGINEER

BRIDGE NO. N/A

POST MILE 93.8

SONORA JUNCTION MAINTENANCE STATION

LOG OF TEST BORINGS 2 OF 3

USERNAME => hrmfngs DATE PLOTTED => 13-JAN-2010 TIME PLOTTED => 13:18

12-14-09
REGISTERED CIVIL ENGINEER DATE

1-11-10
PLANS APPROVAL DATE

No. C69325
Exp. 6-30-2010

Naxin Song
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

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KLEINFELDER INC.
3077 FITE CIR.
SACRAMENTO, CA 95827

GROUP SYMBOLS AND NAMES			
Graphic/Symbol	Group Names	Graphic/Symbol	Group Names
	Well-graded GRAVEL		Lean CLAY
	Well-graded GRAVEL with SAND		Lean CLAY with SAND
	Poorly graded GRAVEL		SANDY lean CLAY
	Poorly graded GRAVEL with SAND		GRAVELLY lean CLAY
	Well-graded GRAVEL with SILT		SILTY CLAY
	Well-graded GRAVEL with SILT and SAND		SILTY CLAY with SAND
	Well-graded GRAVEL with CLAY (or SILTY CLAY)		SANDY SILTY CLAY
	Well-graded GRAVEL with CLAY and SAND (or SILTY CLAY and SAND)		GRAVELLY SILTY CLAY
	Poorly graded GRAVEL with SILT		SILTY CLAY with GRAVEL
	Poorly graded GRAVEL with SILT and SAND		SANDY SILTY CLAY
	Poorly graded GRAVEL with CLAY (or SILTY CLAY)		SANDY SILTY CLAY with GRAVEL
	Poorly graded GRAVEL with CLAY and SAND (or SILTY CLAY and SAND)		GRAVELLY SILTY CLAY
	SILTY GRAVEL		GRAVELLY SILTY CLAY with SAND
	SILTY GRAVEL with SAND		
	CLAYEY GRAVEL		SILT
	CLAYEY GRAVEL with SAND		SILT with SAND
	SILTY, CLAYEY GRAVEL		SILT with GRAVEL
	SILTY, CLAYEY GRAVEL with SAND		SANDY SILT
	Well-graded SAND		SANDY SILT
	Well-graded SAND with GRAVEL		SANDY SILT with GRAVEL
	Poorly graded SAND		GRAVELLY SILT
	Poorly graded SAND with GRAVEL		GRAVELLY SILT with SAND
	Well-graded SAND with SILT		ORGANIC lean CLAY
	Well-graded SAND with SILT and GRAVEL		ORGANIC lean CLAY with SAND
	Well-graded SAND with CLAY (or SILTY CLAY)		ORGANIC lean CLAY with GRAVEL
	Well-graded SAND with CLAY and GRAVEL (or SILTY CLAY and GRAVEL)		SANDY ORGANIC lean CLAY
	Poorly graded SAND with SILT		SANDY ORGANIC lean CLAY
	Poorly graded SAND with SILT and GRAVEL		SANDY ORGANIC lean CLAY with GRAVEL
	Poorly graded SAND with CLAY (or SILTY CLAY)		GRAVELLY ORGANIC lean CLAY
	Poorly graded SAND with CLAY and GRAVEL (or SILTY CLAY and GRAVEL)		GRAVELLY ORGANIC lean CLAY with SAND
	SILTY SAND		ORGANIC SILT
	SILTY SAND with GRAVEL		ORGANIC SILT with SAND
	CLAYEY SAND		ORGANIC SILT with GRAVEL
	CLAYEY SAND with GRAVEL		SANDY ORGANIC SILT
	SILTY, CLAYEY SAND		SANDY ORGANIC SILT
	SILTY, CLAYEY SAND with GRAVEL		SANDY ORGANIC SILT with GRAVEL
	PEAT		GRAVELLY ORGANIC SILT
			GRAVELLY ORGANIC SILT with SAND
	COBBLES		ORGANIC fat CLAY
	COBBLES and BOULDERS		ORGANIC fat CLAY with SAND
			ORGANIC fat CLAY with GRAVEL
			SANDY ORGANIC fat CLAY
			SANDY ORGANIC fat CLAY
			SANDY ORGANIC fat CLAY with GRAVEL
			GRAVELLY ORGANIC fat CLAY
			GRAVELLY ORGANIC fat CLAY with SAND
			ORGANIC elastic SILT
			ORGANIC elastic SILT with SAND
			ORGANIC elastic SILT with GRAVEL
			SANDY ORGANIC elastic SILT
			SANDY ORGANIC elastic SILT
			SANDY ORGANIC elastic SILT with GRAVEL
			GRAVELLY ORGANIC elastic SILT
			GRAVELLY ORGANIC elastic SILT with SAND
			ORGANIC SOIL
			ORGANIC SOIL with SAND
			ORGANIC SOIL with GRAVEL
			SANDY ORGANIC SOIL
			SANDY ORGANIC SOIL
			SANDY ORGANIC SOIL with GRAVEL
			GRAVELLY ORGANIC SOIL
			GRAVELLY ORGANIC SOIL with SAND

FIELD AND LABORATORY TESTING	
(C)	Consolidation (ASTM D 2435)
(CL)	Collapse Potential (ASTM D 5333)
(CP)	Compaction Curve (CTM 216)
(CR)	Corrosivity Testing (CTM 643, CTM 422, CTM 417)
(CU)	Consolidated Undrained Triaxial (ASTM D 4767)
(DS)	Direct Shear (ASTM D 3080)
(EI)	Expansion Index (ASTM D 4829)
(M)	Moisture Content (ASTM D 2216)
(OC)	Organic Content-% (ASTM D 2974)
(P)	Permeability (CTM 220)
(PA)	Particle Size Analysis (ASTM D 422)
(PI)	Plasticity Index (AASHTO T 90) Liquid Limit (AASHTO T 89)
(PL)	Point Load Index (ASTM D 5731)
(PM)	Pressure Meter
(PP)	Pocket Penetrometer
(R)	R-Value (CTM 301)
(SE)	Sand Equivalent (CTM 217)
(SG)	Specific Gravity (AASHTO T 100)
(SL)	Shrinkage Limit (ASTM D 427)
(SW)	Swell Potential (ASTM D 4546)
(TV)	Pocket Torvane
(UC)	Unconfined Compression-Soil (ASTM D 2166)
	Unconfined Compression-Rock (ASTM D 2938)
(UU)	Unconsolidated Undrained Triaxial (ASTM D 2850)
(UW)	Unit Weight (ASTM D 4767)
(VS)	Vane Shear (AASHTO T 223)

APPARENT DENSITY OF COHESIONLESS SOILS	
Description	SPT N ₆₀ (Blows / 12 inches)
Very loose	0 - 4
Loose	5 - 10
Medium Dense	11 - 30
Dense	31 - 50
Very Dense	> 50

MOISTURE	
Description	Criteria
Dry	Absence of moisture, dusty, dry to the touch
Moist	Damp but no visible water
Wet	Visible free water, usually soil is below water table

PERCENT OR PROPORTION OF SOILS	
Description	Criteria
Trace	Particles are present but estimated to be less than 5%
Few	5 to 10%
Little	15 to 25%
Some	30 to 45%
Mostly	50 to 100%

PARTICLE SIZE		
Description	Size	
Boulder	> 12"	
Cobble	3" to 12"	
Gravel	Coarse	3/4" to 3"
	Fine	No. 4 to 3/4"
Sand	Coarse	No. 10 to No. 4
	Medium	No. 40 to No. 10
	Fine	No. 200 to No. 40

DESIGN OVERSIGHT ENGINEER: _____ SIGN OFF DATE: _____

PREPARED BY: A. Sanchez

CHECKED BY: C. Zhen

GS LOTB SOIL LEGEND

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

Andrew Corker
PROJECT ENGINEER

BRIDGE NO. N/A

POST MILE 93.8

CU 09
EA 315201

FILE => sf_Log_03_of_03.dgn

SONORA JUNCTION MAINTENANCE STATION

LOG OF TEST BORINGS 3 OF 3

REVISION DATES

5-18-09	8-1-09	8-24-09							
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SHEET 48 OF 82

USERNAME => hmfinks DATE PLOTTED => 13-JAN-2010 TIME PLOTTED => 1:31:18

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	93.8	49	82

Solomon C. Wong 09/16/09
 REGISTERED MECHANICAL ENGINEER DATE

1-11-10
 PLANS APPROVAL DATE

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PLUMBING

— — — — —	Cold Water
— A — — —	Compressed Air
— LPG — — —	Liquefied Petroleum Gas
— D — — — —	Equipment Drain
— RD — — — —	Roof Drain
— OD — — — —	Overflow Drain
— RW — — — —	Non Potable Water
— FW — — — —	Fire Water
— — — — —	Hot Water
— — — — —	Hot Water Return
— R — — — —	Relief Valve Discharge Pipe
— S — — — —	Sewer Line
— — — — —	Sanitary Sewer (above grade)
— — — — —	Sanitary Sewer (below grade)
— — — — —	Sanitary Sewer Vent

PIPE FITTINGS AND VALVES

	Cap, Threaded
	Elbow, Turned Down
	Elbow, Turned Up
	Reducer, Concentric
	Pressure Gauge (with gage cock and Snubber)
	Strainer
	Union
	Union, Insulating
	Valve, Ball
	Valve, Check
	Valve, Gas
	Valve, Gate
	Valve, Safety Relief
	Valve, Faucet Assembly
	Valve, Pressure/Temperature Relief
	Water Hammer Arrestor

MECHANICAL ABBREVIATIONS:

A/C	Air Conditioning	GA	Gauge	RE	Refrigerator
ABS	Acrylonitrile Butadiene Styrene	GALV	Galvanized	REG	Register
AC	Asphalt Concrete	GH	Ground Hydrant	RA	Return Air
AD	Air Drop	GLV	Globe Valve	RCP	Reinforced Concrete Pipe
AP	Alternative Pipe	GSP	Galvanized Steel Pipe	RD	Roof Drain
ATF	Automatic Transmission Fluid	GV	Gate Valve	REQ	Required
AWG	American Wire Gauge	GWH	Gas Water Heater	RH	Radiant Heater
BFP	Backflow Preventer	GYP	Gypsum	RV	Relief Valve
BH	Box Hydrant			RWL	Rain Water Leader
BLDG	Building	H	Height	RW	Raw Water
BV	Balancing Valve	HB	Hose Bibb		
°C	Celsius Temperature	H/C	Hot Water, High Pressure Cleaner	S	Switch
C	Conduit	HDPE	High Density polyethylene	SF	Fan, Switch
Cap.	Capacity	HF	Hose Faucet	S/S	Service Sink
CD	Ceiling Diffuser	HVAC	Heating, Ventilating And Air Conditioning	SA	Supply Air
CI	Cast-Iron	HW	Hot Water	SCH	Schedule
CO	Cleanout	HZ	Hertz	SDS	Sanitary Dump Station
COTF	Cleanout Through Floor	ID	Inside Diameter	SF	Supply Fan
COTG	Cleanout Through Grade	IE	Invert Elevation	SHR	Shower
COTW	Cleanout To Wall	IPS	International Pipe Standard	SP	Static Pressure
CV	Check Valve			SS	Sanitary Sewer
CW	Cold Water	KS	Kitchen Sink	STA	Station
D	Depth	KW	Kilowatt	STD	Standard
DB	Dry Bulb	LAV	Lavatory	TCV	Temperature Control Valve
DF	Drinking Fountain	L/s	Liters per Second	TSPV	Trap Seal Primer Valve
DH	Duct Heater	LPG	Liquefied Petroleum Gas	TPRV	Temp., Pressure, Relief Valve
DI	Drain Inlet	m	Meter	TS	Time Switch
Dia	Diameter	MAX	Maximum	Typ.	Typical
(E)	Existing	MAN	Manhole	UH	Unit Heater
EA	Exhaust Air	MIN	Minimum	UR	Urinal
EC	Evaporative Cooler	mm	millimeter	V	Vent
ESEW	Emergency Shower And Eye Wash	MS	Mop Sink	VAC	Voltage, Alternating Current
EF	Exhaust Fan	(N)	New	VB	Valve Box
EL	Elevation	NIC	Not In Contract	VR	Vent Riser
Elect.	Electrical	NO	Number	VM	Vending Machine
ES	Evaporative Cooler Switch	NPS	Nominal Pipe Size	VTR	Vent Thru Roof
ESP	External Static Pressure	NPT	National Pipe Thread	W	Width
EWC	Electric Water Cooler	NST	National Standard Thread	W/	With
EWB	Electric Water Heater			W/O	Without
FC	Flexible Connection	OA	Outside Air	WB	Wet Bulb
FD	Floor Drain	OC	On Center	WC	Water Closet
FDC	Fire Department Connection	OD	Outside Diameter	W.C.	Water Column
FE	Fire Extinguisher	OG	Original Ground	WD	Water Drop
FG	Finish Grade			WH	Water Heater
FH	Fire Hydrant	PBEF	Push-Button Exhaust Fan	W.H.	Wall Hydrant
FL	Flow Line	PCC	Portland Cement Concrete	WHA	Water Hammer Arrestor
FS	Floor Sink	PH	Phase	WLS	Water Level Switch
FTR	Flue through roof	PRV	Pressure Reducing Valve	WP	Weatherproof
		PSI	Pounds Per Square Inch	WS	Wash Sink
		PVC	Polyvinyl Chloride	WSP	Welded Steel Pipe

CALIFORNIA STATE FIRE MARSHAL APPROVED

Approval of this plan does not authorize or approve any addition 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: *Bill Robertson*
 BILL ROBERTSON
 09/02/09

HEATING, VENTILATING AND AIR CONDITIONING

	Balance Damper
	Flexible Duct
— EA — — —	Exhaust Air
— RA — — —	Return Air
— SA — — —	Supply Air
	Exhaust Register
	Return Register
	Supply Diffuser
	Thermostat
	Time Switch
	Anode Test Station
	Three Wire Test Station
	Exhaust Fan
	Fire Extinguisher

MISCELLANEOUS

L	Angle
⊕	Centerline
∅	Diameter
— RE — — —	(E) Duct to be Removed
	Section / Elevation Letter
	Sheet Number
	Detail Number
	Sheet Number
12x12 "	NECK SIZE
190 cfm	FLOW RATE

DESIGN BY <i>Solomon Wong</i>	CHECKED <i>Alvin Kwan</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 47M5717	SONORA JUNCTION MAINTENANCE STATION MECHANIC'S WORK FACILITY	SHEET M0-0
				POST MILE X		
DETAILS BY <i>J.R. Stangl</i>	CHECKED <i>Alvin Kwan</i>	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	CU 09603 EA 315201	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF
QUANTITIES BY <i>Solomon Wong</i>	CHECKED <i>Alvin Kwan</i>			DISREGARD PRINTS BEARING EARLIER REVISION DATES →	9/16/09	

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	93.8	50	82

Solomon C. Wong 09-16-09
REGISTERED ELECTRICAL ENGINEER DATE

1-11-10
PLANS APPROVAL DATE

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



CALIFORNIA STATE FIRE MARSHAL
APPROVED

Approval of this plan does not authorize or approve any addition 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: *Bill Robertson*
BILL ROBERTSON
09/02/09

Note:
Only part of 1 of 3 is included on this sheet. Other checked forms are available upon request.

CERTIFICATE OF COMPLIANCE (Part 1 of 3) MECH-1-C

PROJECT NAME SONORA JUNCTION MAINTANENCE STATION MECHANIC'S WORK FACILITY	DATE 06/22/2009	
PROJECT ADDRESS 93922 Highway 395, Bridgeport, CA 93517	Building Permit # Checked by/Date Enforcement Agency Use	
PRINCIPAL DESIGNER-MECHANICAL SOLOMON WONG		TELEPHONE (916) 227-8330
DOCUMENTATION AUTHOR SOLOMON WONG		TELEPHONE (916) 227-8330

GENERAL INFORMATION

DATE OF PLANS 06/22/2009 BUILDING CONDITIONED FLOOR AREA 2921 CLIMATE ZONE 14

BUILDING TYPE NONRESIDENTIAL HIGH RISE RESIDENTIAL HOTEL/MOTEL GUEST ROOM

PHASE OF CONSTRUCTION NEW CONSTRUCTION ADDITION ALTERATION UNCONDITIONED (File affidavit)

STATEMENT OF COMPLIANCE

This Certificate of Compliance lists the building features and performance specifications needed to comply with Title 24, Parts 1 and 6 of the California Code of Regulations. This certificate applies only to building mechanical requirements.

The documentation preparer hereby certifies that the documentation is accurate and complete.

DOCUMENTATION AUTHOR SOLOMON WONG	SIGNATURE <i>Solomon C. Wong</i>	DATE 06/22/2009
--------------------------------------	-------------------------------------	--------------------

The Principal Mechanical Designer hereby certifies that the proposed building design represented in this set of construction documents is consistent with the other compliance forms and worksheets, with the specifications, and with any other calculations submitted with this permit application. The proposed building has been designed to meet the mechanical requirements contained in the applicable parts of Sections 100, 101, 102, 110 through 115, 120 through 125, 142, 144 and 145.

The plans & specifications meet the requirements of Part 1 (Sections 10-103a).
 The installation certificates meet the requirements of Part 1 (10-103a 3).
 The operation & maintenance information meets the requirements of Part 1 (10-103c).

Please check one: (These sections of the Business and Professions Code are printed in full in the Nonresidential Manual.)

I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation; and that I am licensed in the State of California as a civil engineer or mechanical engineer, or I am a licensed architect.

I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code by section 5537.2 or 6737.3 to sign this document as the person responsible for its preparation; and that I am a licensed contractor performing this work.

I affirm that I am eligible under Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant to Business and Professions Code Sections 5537, 5538 and 6737.1.

PRINCIPAL MECHANICAL DESIGNER-NAME SOLOMON WONG	SIGNATURE <i>Solomon C. Wong</i>	DATE 06/22/2009	LIC.# M27626
--	-------------------------------------	--------------------	-----------------

MECHANICAL MANDATORY MEASURES

INSTRUCTIONS TO APPLICANT MECHANICAL COMPLIANCE & WORKSHEETS (Check box if worksheet is included)

<input checked="" type="checkbox"/> MECH-1-C	Certificate of Compliance. Part 1 of 3, 2 of 3, 3 of 3 are required on plans for all submittals. See note.
<input type="checkbox"/> MECH-2-C	Air/Water/Service/Water Pools Requirements. Part 1 of 3, 2 of 3, 3 of 3 are required for all submittals, but may be on plans.
<input type="checkbox"/> MECH-3-C	Mechanical Ventilation and Reheat is required for all submittals with mechanical ventilation, but may be on plans.
<input type="checkbox"/> MECH-4-C	HVAC Misc. Prescriptive Requirements is required for all prescriptive submittals, but may be on plans.

2005 Nonresidential Compliance Forms January 2006

THIS DRAWING ACCURATE FOR MECHANICAL WORK ONLY

CERTIFICATE OF COMPLIANCE (Part 1 of 2) ENV-1-C

PROJECT NAME SONORA JUNCTION MAINTANENCE STATION MECHANIC'S WORK FACILITY	DATE 06/22/2009	
PROJECT ADDRESS 93922 Highway 395, Bridgeport, CA 93517	Building Permit # Checked by/Date Enforcement Agency Use	
PRINCIPAL DESIGNER-ENVELOPE GOFFREDO RIVIECCIO		TELEPHONE (916) 227-8286
DOCUMENTATION AUTHOR SOLOMON WONG		TELEPHONE (916) 227-8330

GENERAL INFORMATION

DATE OF PLANS 06/22/2009 BUILDING CONDITIONED FLOOR AREA 2921 CLIMATE ZONE 14

BUILDING TYPE NONRESIDENTIAL HIGH RISE RESIDENTIAL HOTEL/MOTEL GUEST ROOM

RELOCATABLE - Indicate: Specific climate - list _____, or all climates

PHASE OF CONSTRUCTION NEW CONSTRUCTION ADDITION ALTERATION UNCONDITIONED (File affidavit)

METHOD OF ENVELOPE COMPLIANCE COMPONENT OVERALL ENVELOPE

SUPPORTING FORMS SUBMITTED ENV-2-C (Component) ENV-3-C (Overall Envelope) ENV-4-C (Skylight Worksheet)

STATEMENT OF COMPLIANCE

This Certificate of Compliance lists the building features and performance specifications needed to comply with Title 24, Parts 1 and 6 of the California Code of Regulations. This certificate applies only to building envelope requirements.

The documentation preparer hereby certifies that the documentation is accurate and complete.

DOCUMENTATION AUTHOR SOLOMON WONG	SIGNATURE <i>Solomon C. Wong</i>	DATE 06/22/2009
--------------------------------------	-------------------------------------	--------------------

The Principal Envelope Designer hereby certifies that the proposed building design represented in this set of construction documents is consistent with the other compliance forms and worksheets, with the specifications, and with any other calculations submitted with this permit application. The proposed building has been designed to meet the envelope requirements contained in Sections 110, 116 through 118, and 140, 142, 143 or 149 of Title 24, Part 6. **Please check one:**

I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation; and that I am licensed in the State of California as a civil engineer or mechanical engineer, or I am a licensed architect.

I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code by section 5537.2 or 6737.3 to sign this document as the person responsible for its preparation; and that I am a licensed contractor performing this work.

I affirm that I am eligible under Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant to Business and Professions Code Sections 5537, 5538 and 6737.1.

(These sections of the Business and Professions Code are printed in full in the Nonresidential Manual.)

PRINCIPAL ENVELOPE DESIGNER-NAME GOFFREDO RIVIECCIO	SIGNATURE <i>Goffredo Rivieccio</i>	DATE 06/22/2009	LIC.# C-17914
--	--	--------------------	------------------

ENVELOPE MANDATORY MEASURES

Indicate location on plans of Note Block for Mandatory Measures X

INSTRUCTIONS TO APPLICANT ENVELOPE COMPLIANCE & WORKSHEETS (Check box if worksheet is included)

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

<input checked="" type="checkbox"/> ENV-1-C	Certificate of Compliance. Required on plans for all submittals. Part 2 may be incorporated in schedules on plans.
<input type="checkbox"/> ENV-2-C	Use with the Envelope Component compliance method.
<input type="checkbox"/> ENV-3-C	Use with the Overall Envelope compliance method.
<input type="checkbox"/> ENV-4-C	Optional. Use for the minimum skylight requirements for large enclosed spaces.

2005 Nonresidential Compliance Forms January 2006

DESIGN BY	<i>Solomon Wong</i>	CHECKED	<i>Alvin Kwan</i>
DETAILS BY	<i>J.R. Stangl</i>	CHECKED	<i>Solomon Wong</i>
QUANTITIES BY	<i>Solomon Wong</i>	CHECKED	<i>Alvin Kwan</i>

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO. 47M5717
POST MILE

SONOR JUNCTION MAINT. STATION
CERTIFICATE OF COMPLIANCE FORMS

SHEET MO-1

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 09603
EA 315201

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
05-26-09 06-28-09 09-16-09	

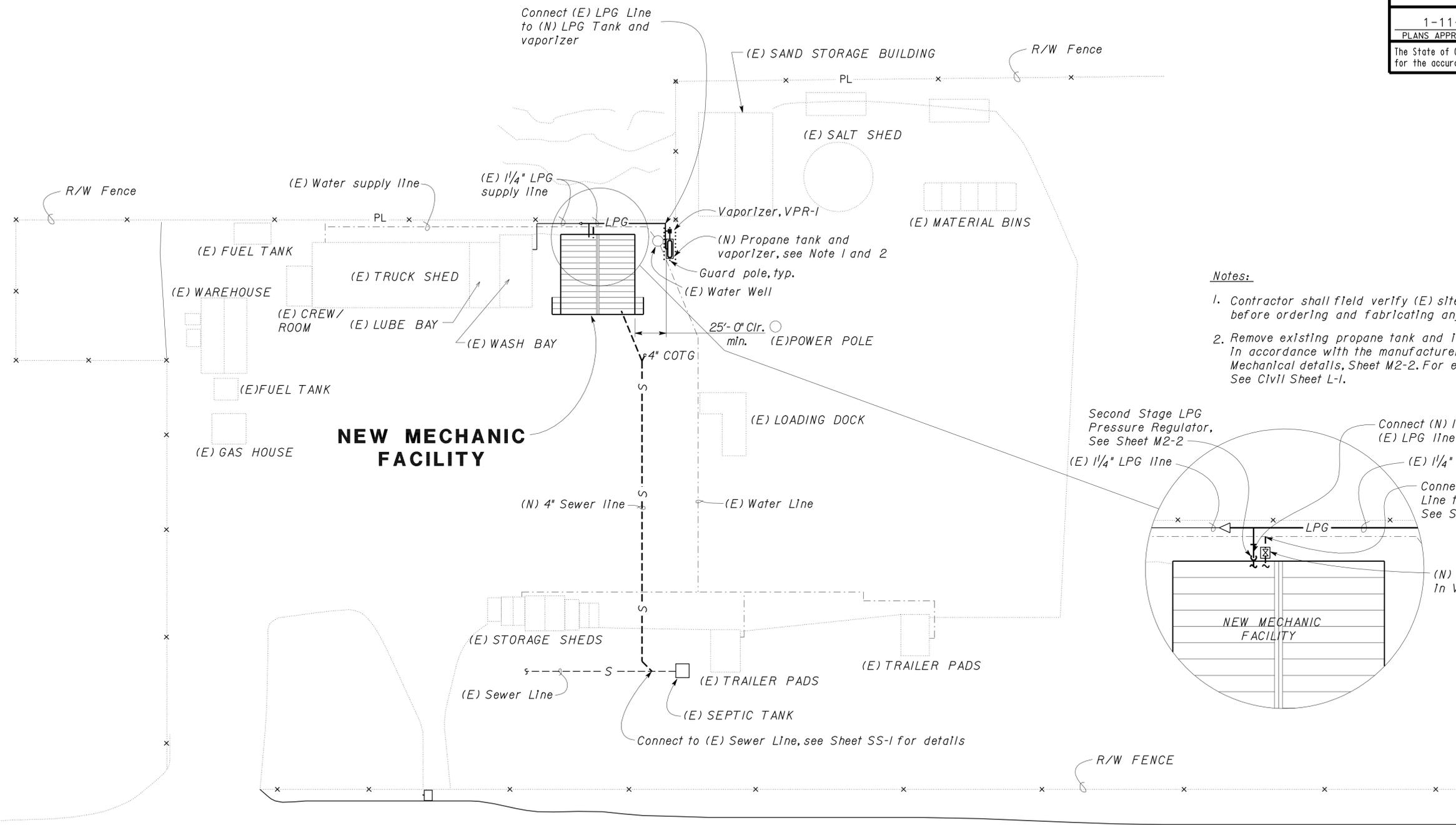
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	93.8	51	82

Solomon C. Wong 09/16/09
 REGISTERED MECHANICAL ENGINEER DATE

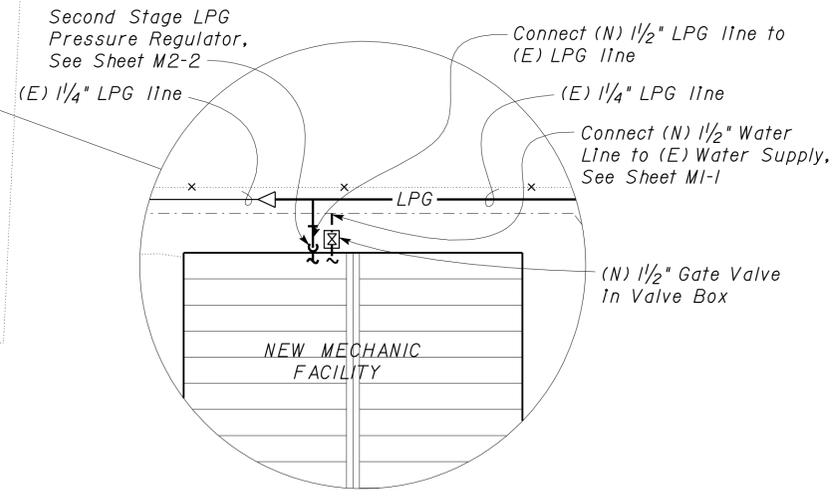


1-11-10
 PLANS APPROVAL DATE
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

CALIFORNIA STATE FIRE MARSHAL APPROVED
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
 Reviewed by: *Bill Robertson*
 BILL ROBERTSON
 09/02/09
 Date:



- Notes:**
- Contractor shall field verify (E) site equipment and utility connections before ordering and fabricating any material.
 - Remove existing propane tank and install new propane tank in accordance with the manufacturer's recommendations and with Mechanical details, Sheet M2-2. For existing concrete slab removal, See Civil Sheet L-1.



ROUTE 395

SITE PLAN
 1:40

ROUTE 395

DESIGN SUPERVISOR <i>John Schmitt</i>	DESIGN	BY <i>Solomon Wong</i>	CHECKED <i>Alvin Kwan</i>
	DETAILS	BY <i>J.R. Stangl</i>	CHECKED <i>Alvin Kwan</i>
	QUANTITIES	BY <i>Solomon Wong</i>	CHECKED <i>Alvin Kwan</i>

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO.	47M5717
POST MILE	X

**SONORA JUNCTION MAINTENANCE STATION
 MECHANIC'S WORK FACILITY**
 SITE PLAN

SHEET **M1-0** OF

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	93.8	52	82

Solomon C. Wong 09/16/09
REGISTERED MECHANICAL ENGINEER DATE

1-11-10
PLANS APPROVAL DATE

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

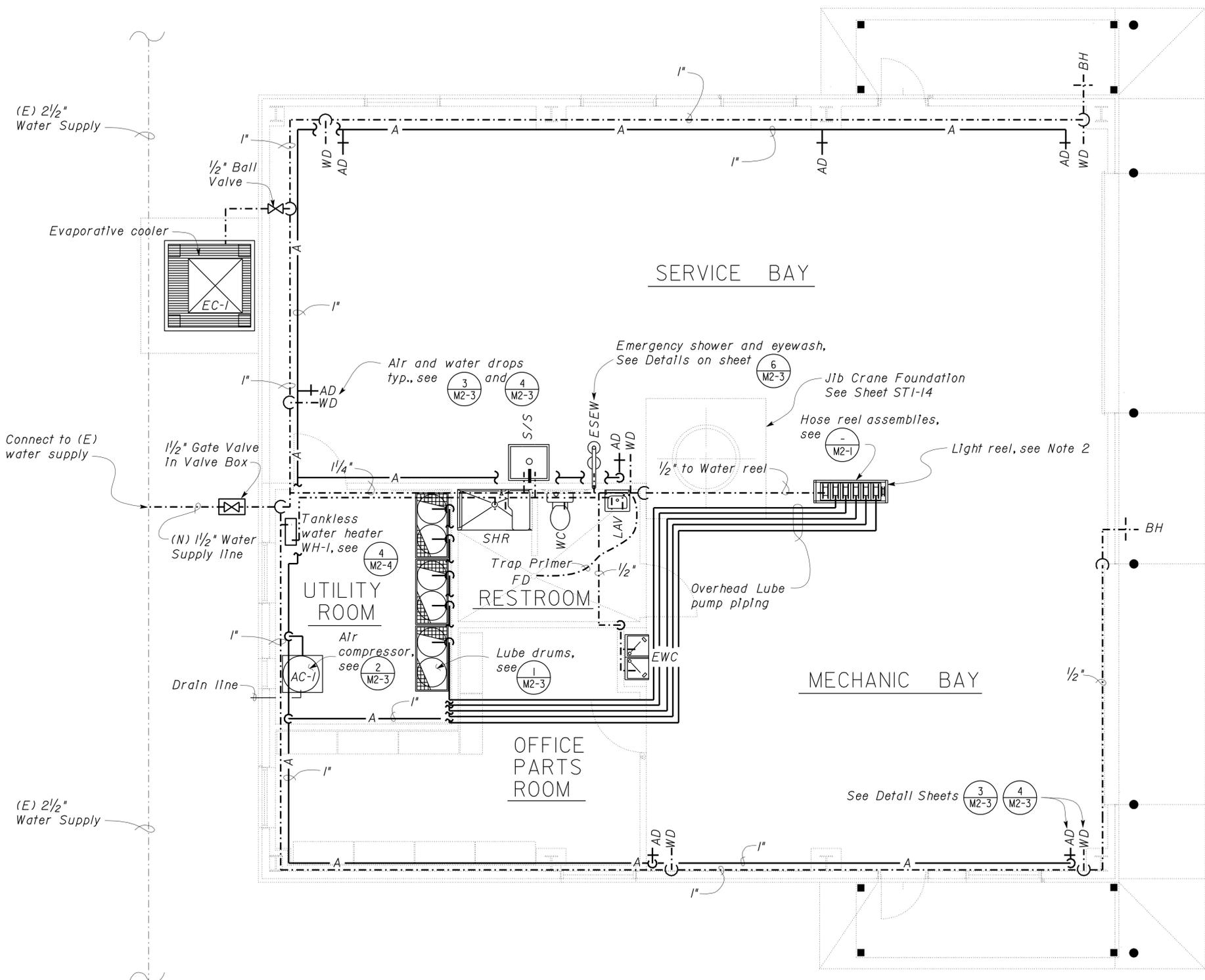


CALIFORNIA STATE FIRE MARSHAL APPROVED

Approval of this plan does not authorize or approve any addition 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: *Bill Robertson*
BILL ROBERTSON
09/02/09

Date:



- Notes:**
- Contractor shall field verify (E) site equipment and utility connections before ordering and fabricating any material.
 - Light reel shall be approved for class I, group D locations.
 - All above floor piping in Service and Mechanic Bays shall be exposed, unless shown otherwise. Piping shall be installed at the bottom of the roof frames level, except compressed air line shall be sloped toward the air receiver and routed to avoid conflict with overhead doors and equipment.
 - See Structural sheets for details of pipe penetration through footing.
 - Route and support all air, oil, water and gas line headers under roof bents.
 - Insulate all hot and cold water piping

AIR, OIL AND WATER PLAN
Scale: 1/4" = 1'-0"

DESIGN	BY <i>Solomon Wong</i>	CHECKED <i>Alvin Kwan</i>
DETAILS	BY <i>J.R. Stangl</i>	CHECKED <i>Alvin Kwan</i>
QUANTITIES	BY <i>Solomon Wong</i>	CHECKED <i>Alvin Kwan</i>

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO.	47M5717	SONORA JUNCTION MAINTENANCE STATION MECHANIC'S WORK FACILITY	SHEET M1-1
POST MILE	X		
PLUMBING PLAN I		SHEET OF	

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	93.8	53	82

Solomon C. Wong 09/16/09
 REGISTERED MECHANICAL ENGINEER DATE



1-11-10
 PLANS APPROVAL DATE

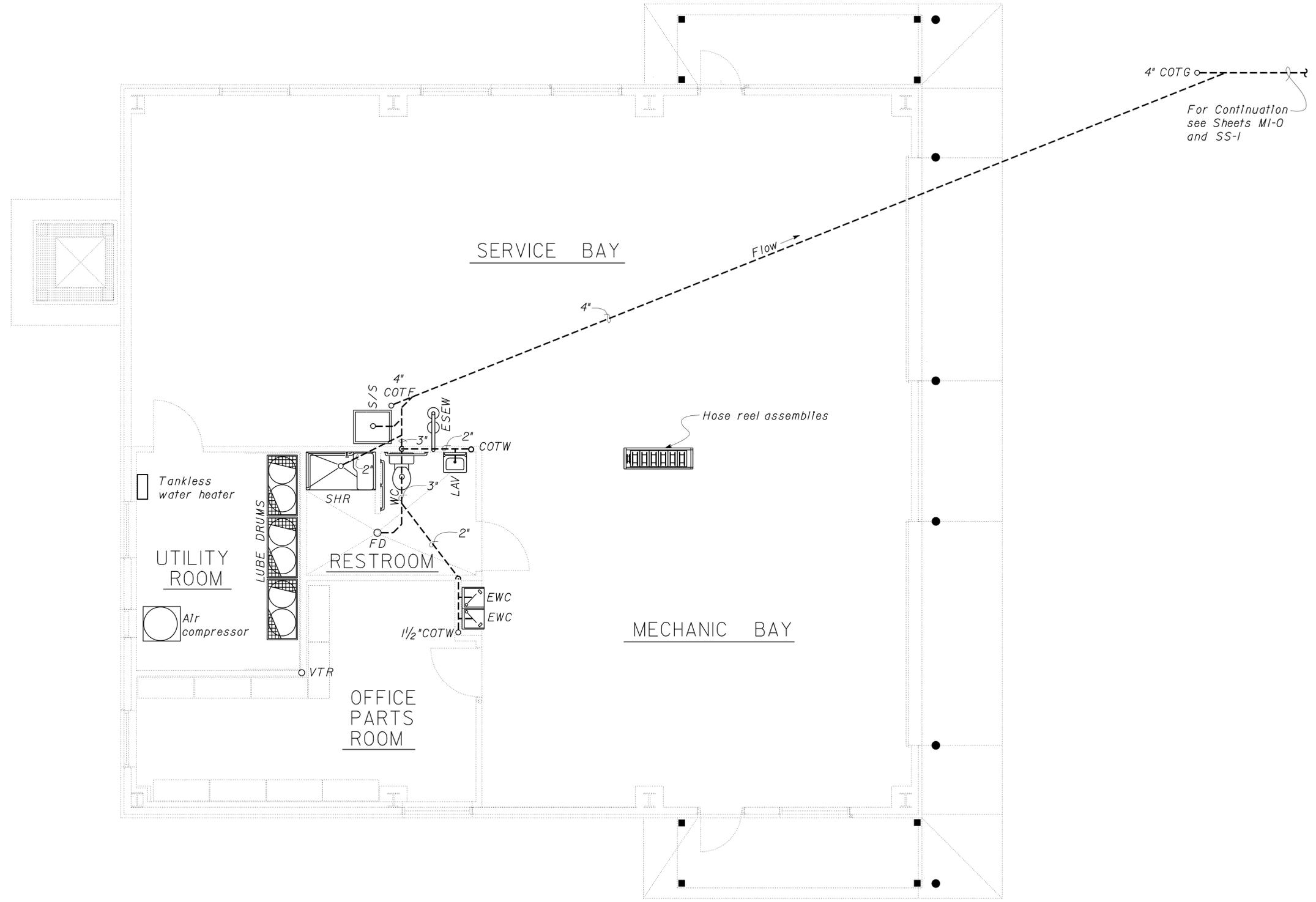
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

CALIFORNIA STATE FIRE MARSHAL
 APPROVED

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

Reviewed by: *Bill Robertson*
 BILL ROBERTSON
 09/02/09

Date:



SANITARY PLAN
 Scale: 1/4" = 1'-0"



DESIGN	BY <i>Solomon Wong</i>	CHECKED <i>Alvin Kwan</i>
DETAILS	BY <i>J.R. Stangl</i>	CHECKED <i>Alvin Kwan</i>
QUANTITIES	BY <i>Solomon Wong</i>	CHECKED <i>Alvin Kwan</i>

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO.	47M5717	SONORA JUNCTION MAINTENANCE STATION MECHANIC'S WORK FACILITY
POST MILE	X	
PLUMBING PLAN II		

SHEET M1-2 OF

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	93.8	55	82

Solomon C. Wong 09/16/09
 REGISTERED MECHANICAL ENGINEER DATE

REG. NO. M27626
 Exp. 6-30-11
 MECH
 STATE OF CALIFORNIA

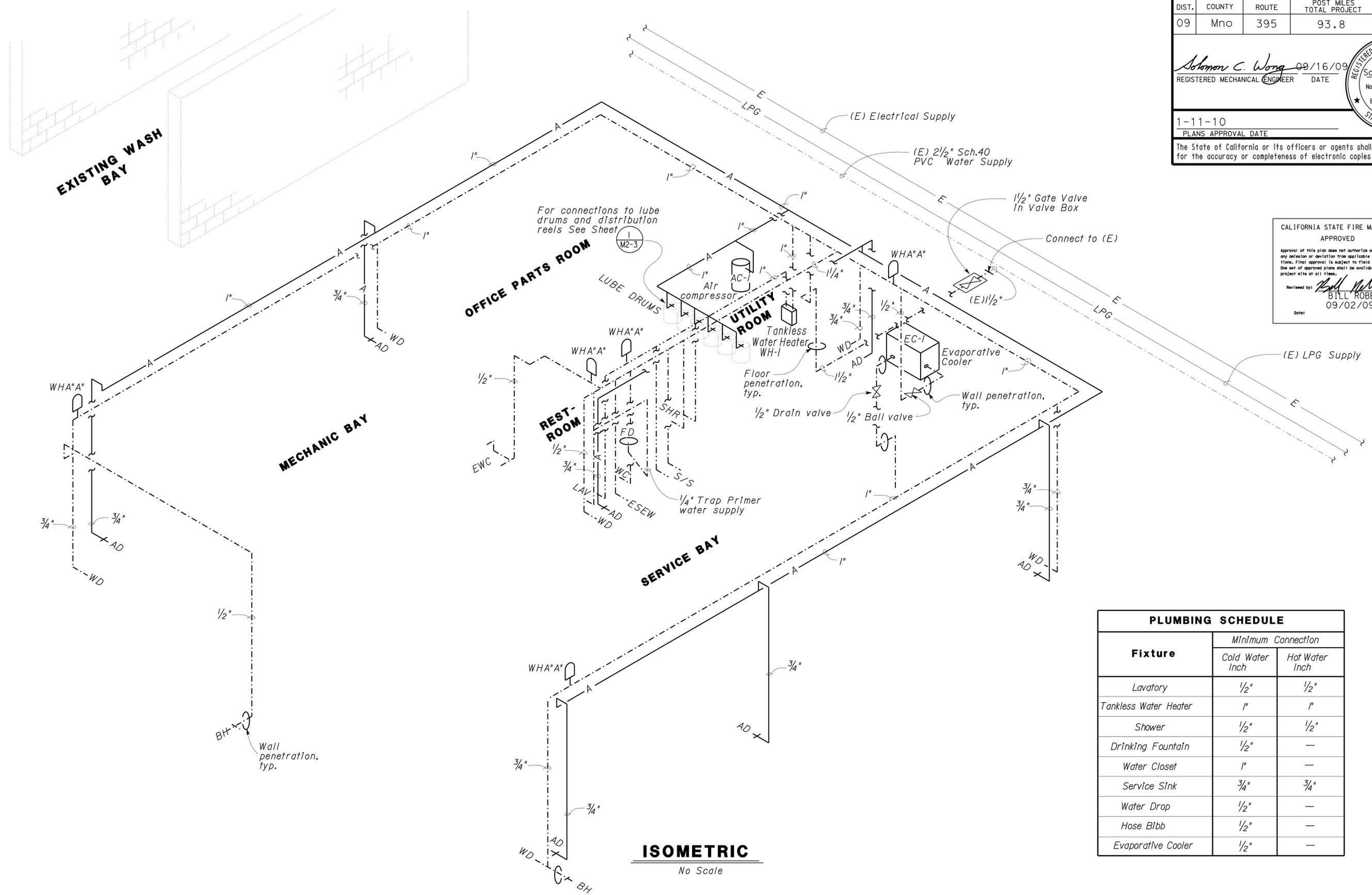
1-11-10
 PLANS APPROVAL DATE

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CALIFORNIA STATE FIRE MARSHAL
 APPROVED

Approval of this plan does not authorize or approve any addition 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: *Bill Robertson*
 BILL ROBERTSON
 09/02/09
 Date:



ISOMETRIC
 No Scale

Fixture	Minimum Connection	
	Cold Water Inch	Hot Water Inch
Lavatory	1/2"	1/2"
Tankless Water Heater	1"	1"
Shower	1/2"	1/2"
Drinking Fountain	1/2"	—
Water Closet	1"	—
Service Sink	3/4"	3/4"
Water Drop	1/2"	—
Hose Bibb	1/2"	—
Evaporative Cooler	1/2"	—

DESIGN	BY <i>Solomon Wong</i>	CHECKED <i>Alvin Kwan</i>
DETAILS	BY <i>J.R. Stangl</i>	CHECKED <i>Alvin Kwan</i>
QUANTITIES	BY <i>Solomon Wong</i>	CHECKED <i>Alvin Kwan</i>

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO. 47M5717
 POST MILE X

**SONORA JUNCTION MAINTENANCE STATION
 MECHANIC'S WORK FACILITY**

AIR AND WATER PLAN

SHEET M1-4 OF

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	93.8	56	82

Solomon C. Wong 09/16/09
REGISTERED MECHANICAL ENGINEER DATE



1-11-10
PLANS APPROVAL DATE

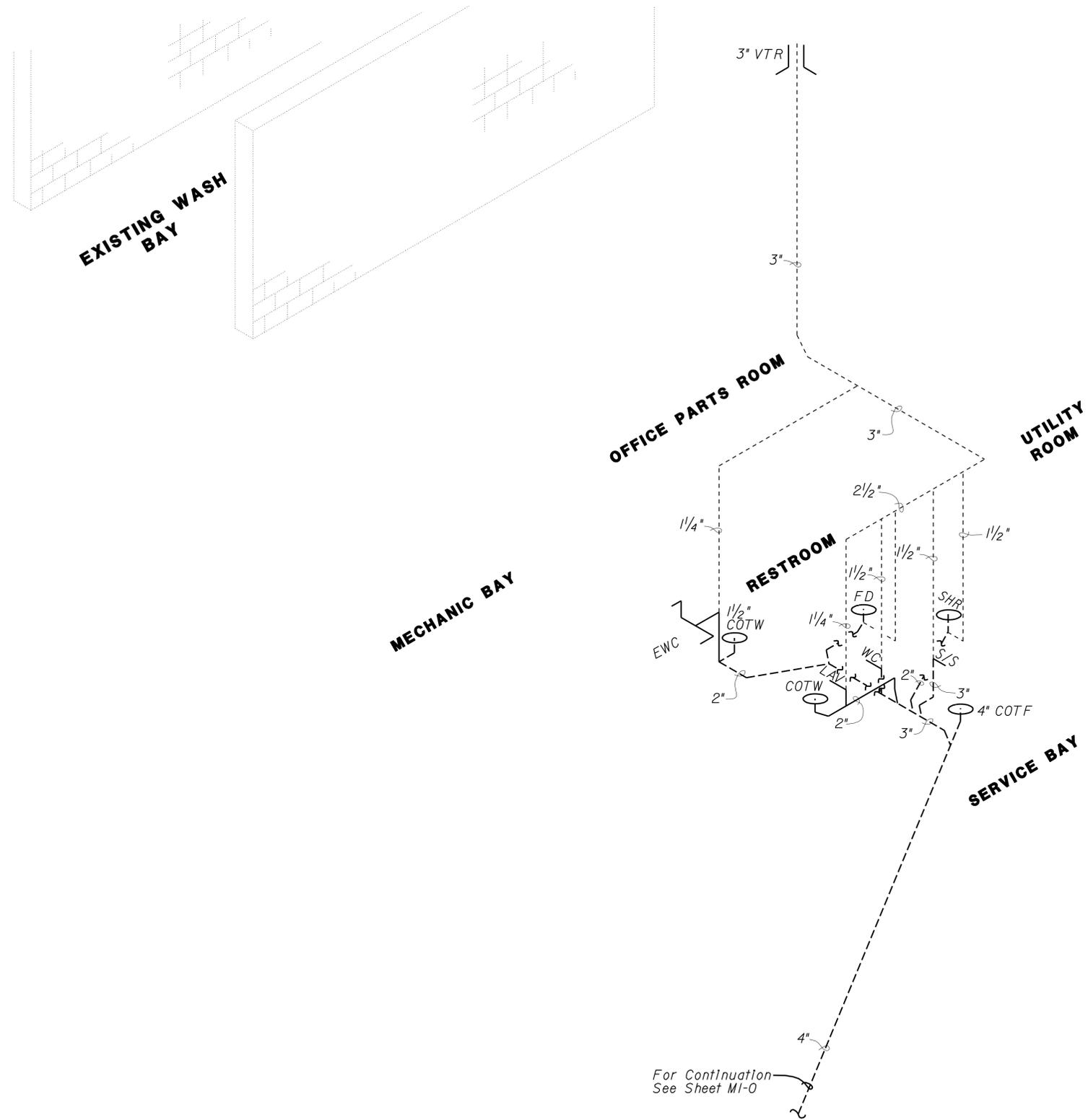
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

CALIFORNIA STATE FIRE MARSHAL
APPROVED

Approval of this plan does not authorize or approve any addition 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: *Bill Robertson*
BILL ROBERTSON
09/02/09

Date:



ISOMETRIC
No Scale

PLUMBING SCHEDULE			
Fixture	Drainage Rough-In	Trap Inch	Vent Inch
Lavatory	2"	1 1/4"	1 1/4"
Drinking Fountain	2"	1 1/4"	1 1/4"
Shower	2"	2"	1 1/2"
Water Closet	3"	--	1 1/2"
Floor Drain	2"	2"	1 1/2"
Service Sink	3"	3"	1 1/2"

DESIGN BY <i>Solomon Wong</i> CHECKED <i>Alvin Kwan</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 47M5717	SONORA JUNCTION MAINTENANCE STATION MECHANIC'S WORK FACILITY	SHEET M1-5	
			POST MILE X			SANITARY SEWER PLAN
			DISREGARD PRINTS BEARING EARLIER REVISION DATES → 9/16/09			
DETAILS BY <i>J.R. Stangl</i> CHECKED <i>Alvin Kwan</i>	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	CU 09603 EA 315201				
QUANTITIES BY <i>Solomon Wong</i> CHECKED <i>Alvin Kwan</i>			DOES SD Imperial Rev. 1/07			

13-JAN-2010 13:20
m1_5.dgn

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	93.8	58	82

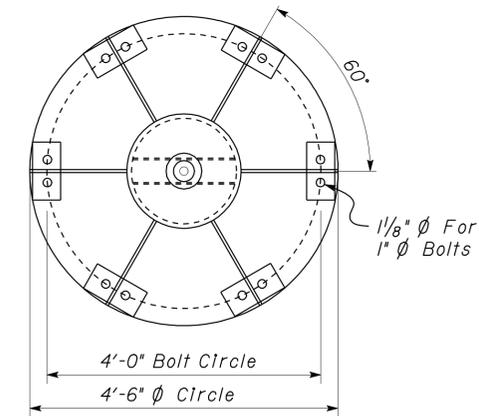
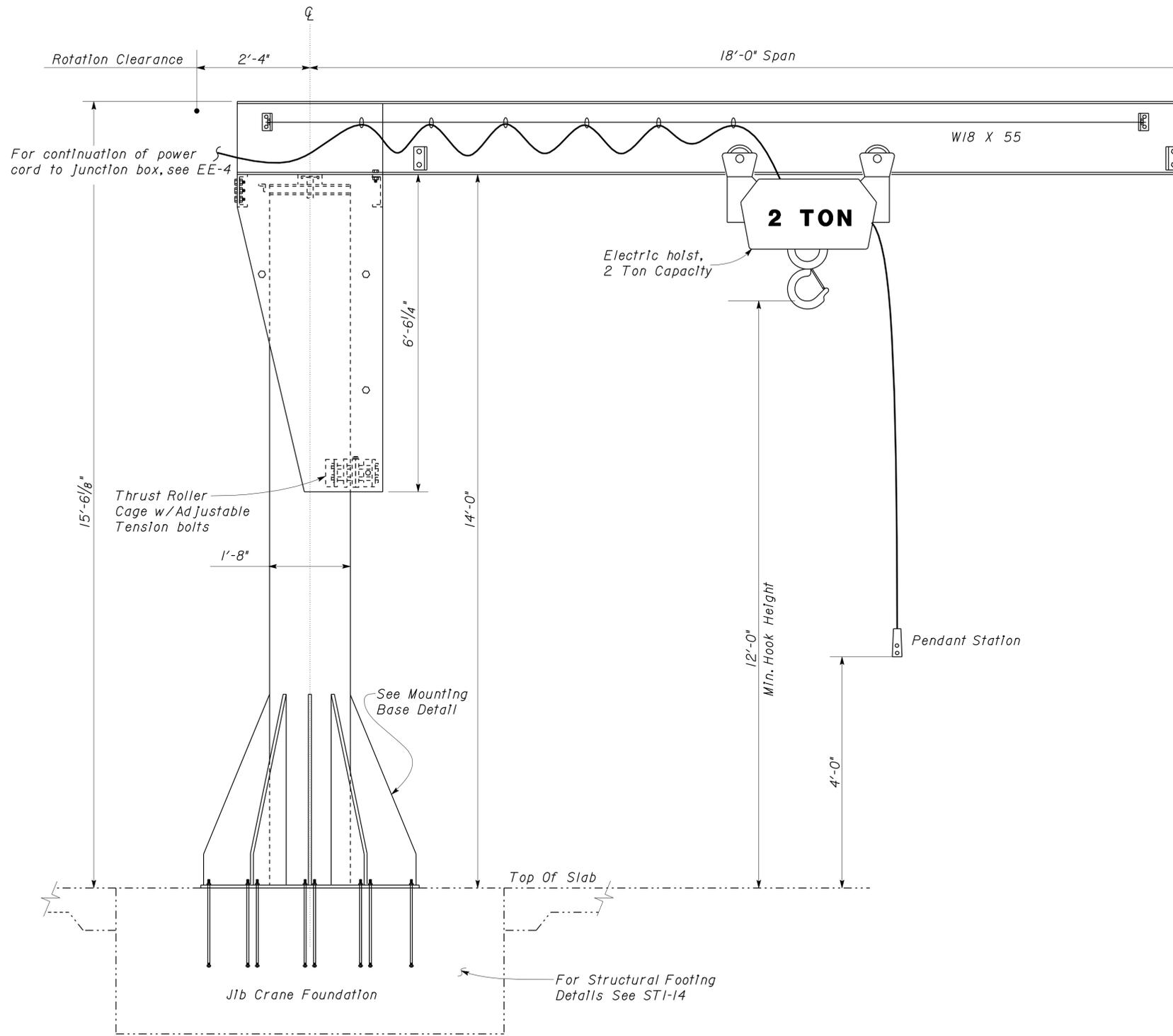
Solomon C. Wong 09/16/09
 REGISTERED MECHANICAL ENGINEER DATE



1-11-10
 PLANS APPROVAL DATE

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

CALIFORNIA STATE FIRE MARSHAL
 APPROVED
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
 Reviewed by: *[Signature]*
 BILL ROBERTSON
 09/02/09
 Date:



BASE MOUNTING DETAIL

Scale: 3/4" = 1'-0"

JIB CRANE DETAIL

Scale: 3/4" = 1'-0"

DESIGN	BY Solomon Wong	CHECKED Alvin Kwan
DETAILS	BY J.R. Stangl	CHECKED Alvin Kwan
QUANTITIES	BY Solomon Wong	CHECKED Alvin Kwan

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO.	47M5717
POST MILE	X

SONORA JUNCTION MAINTENANCE STATION MECHANIC'S WORK FACILITY
 JIB CRANE DETAILS

SHEET M1-7

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	93.8	59	82

Solomon C. Wong 09/16/09
REGISTERED MECHANICAL ENGINEER DATE

1-11-10
PLANS APPROVAL DATE

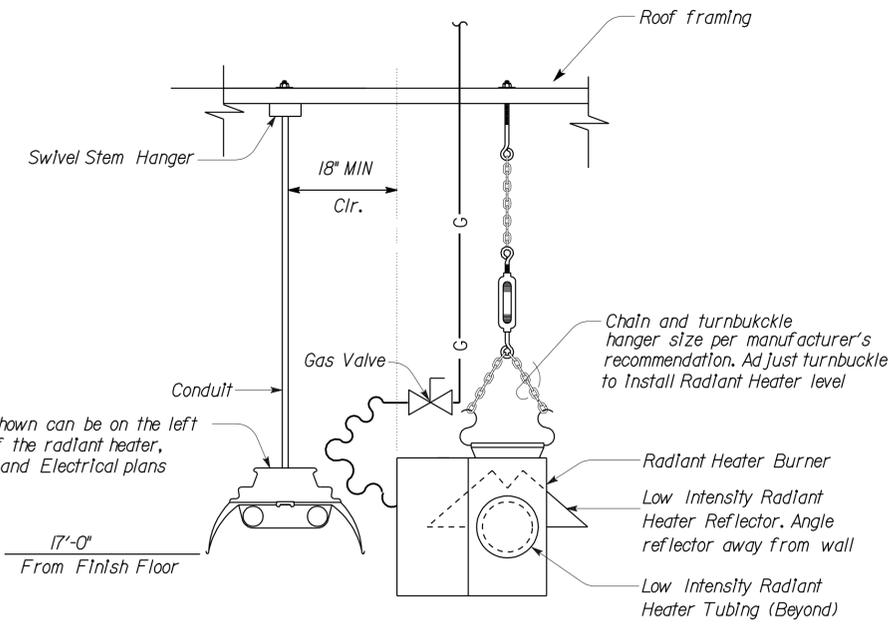
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



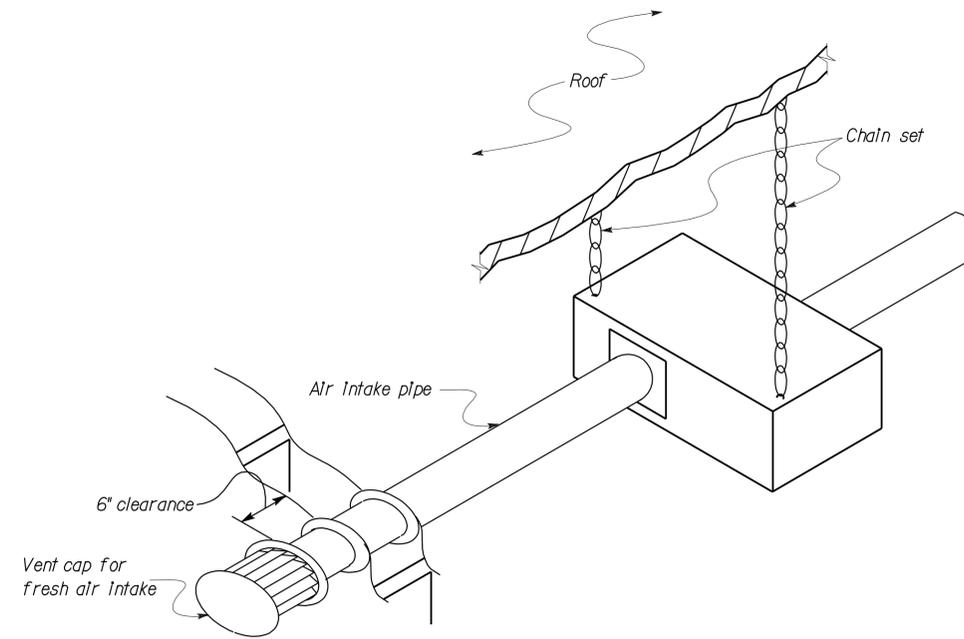
CALIFORNIA STATE FIRE MARSHAL APPROVED

Approval of this plan does not authorize or approve any addition 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.

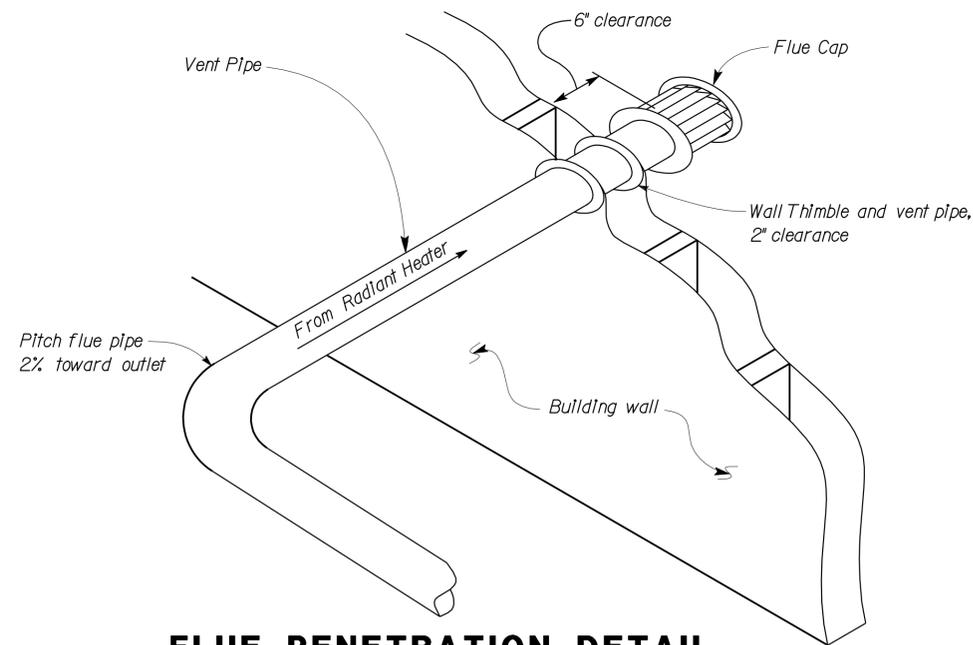
Reviewed by: *Bill Robertson*
BILL ROBERTSON
09/02/09



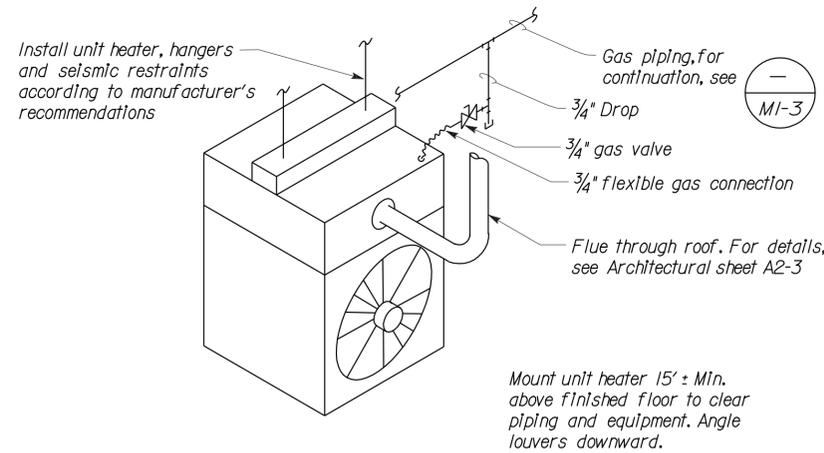
1 LOW INTENSITY RADIANT HEATER
No Scale



2 TUBE HEATER - THRU WALL AIR INTAKE INSTALLATION
NO SCALE



3 FLUE PENETRATION DETAIL
NO SCALE



4 GAS UNIT HEATER
No Scale

DESIGN	BY <i>Solomon Wong</i>	CHECKED <i>Alvin Kwan</i>
DETAILS	BY <i>X</i>	CHECKED <i>Alvin Kwan</i>
QUANTITIES	BY <i>Solomon Wong</i>	CHECKED <i>Alvin Kwan</i>

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO.	47M5717
POST MILE	X

SONORA JUNCTION MAINTENANCE STATION MECHANIC'S WORK FACILITY
MECHANICAL DETAILS I

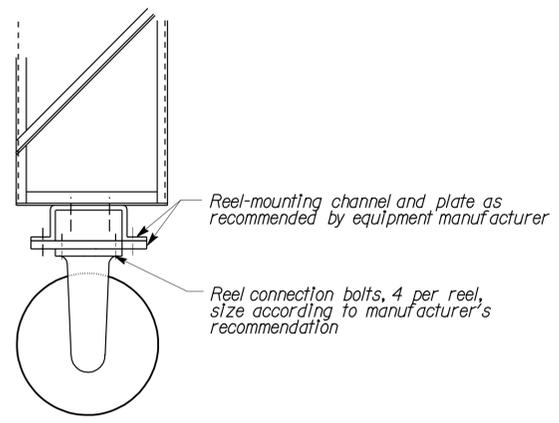
SHEET **M2-0** OF

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	93.8	60	82

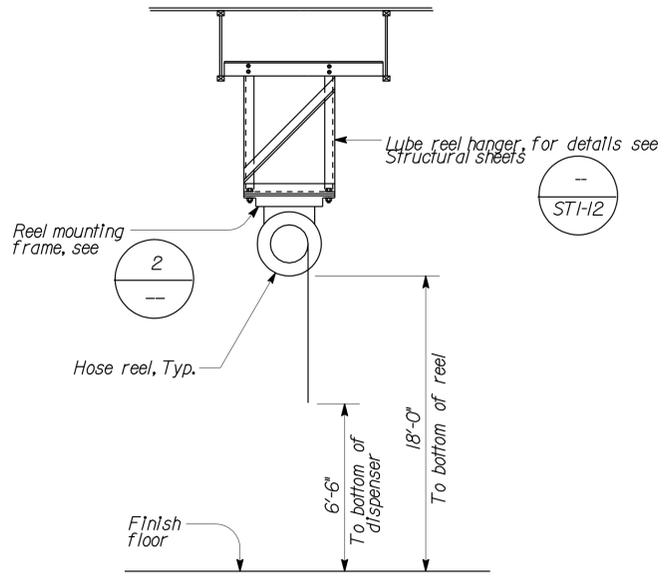
Solomon C. Wong 09/16/09
REGISTERED MECHANICAL ENGINEER DATE

1-11-10
PLANS APPROVAL DATE

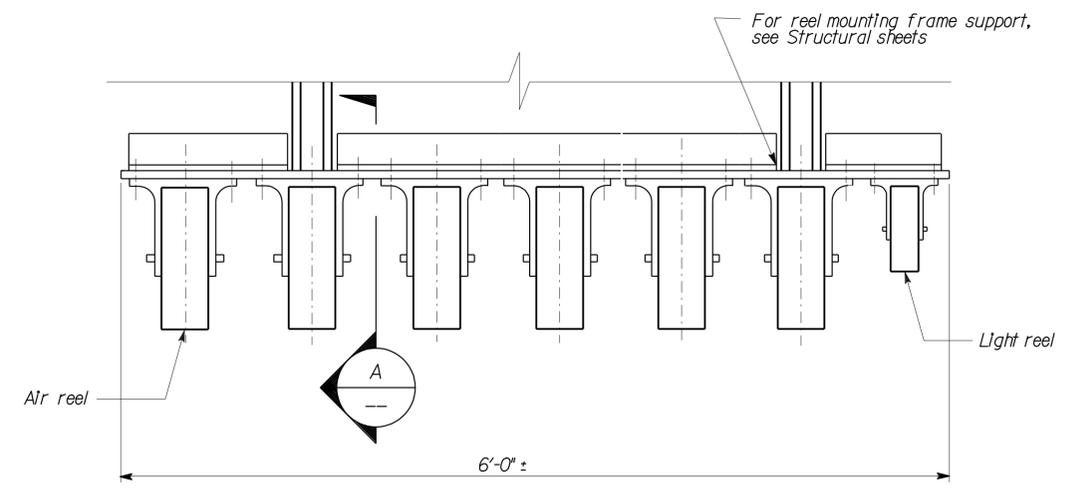
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



A CONNECTION DETAIL
NO SCALE



1 LUBE REEL ASSEMBLIES
NO SCALE



2 REEL MOUNTING FRAME
NO SCALE

CALIFORNIA STATE FIRE MARSHAL APPROVED

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Reviewed by: *Bill Robertson*
BILL ROBERTSON
09/02/09

Date:

DESIGN	BY <i>Solomon Wong</i>	CHECKED <i>Alvin Kwan</i>
DETAILS	BY <i>X</i>	CHECKED <i>Alvin Kwan</i>
QUANTITIES	BY <i>Solomon Wong</i>	CHECKED <i>Alvin Kwan</i>

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO.	47M5717	SONORA JUNCTION MAINTENANCE STATION MECHANIC'S WORK FACILITY
POST MILE	X	
		MECHANICAL DETAILS II

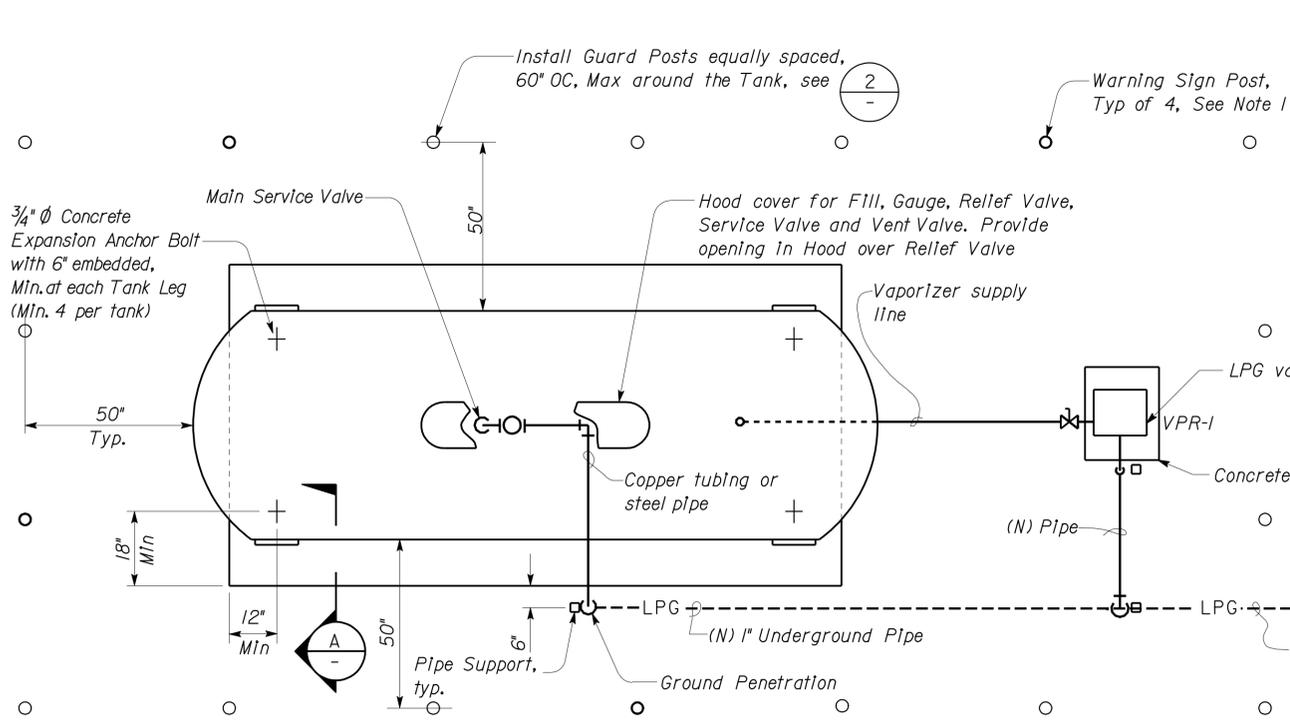
SHEET M2-1 OF

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	93.8	61	82

Solomon C. Wong 09/16/09
 REGISTERED MECHANICAL ENGINEER DATE

1-11-10
 PLANS APPROVAL DATE

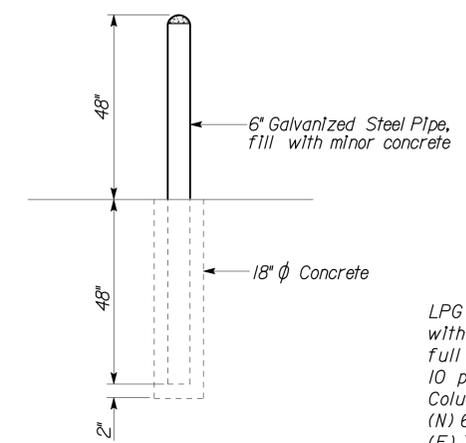
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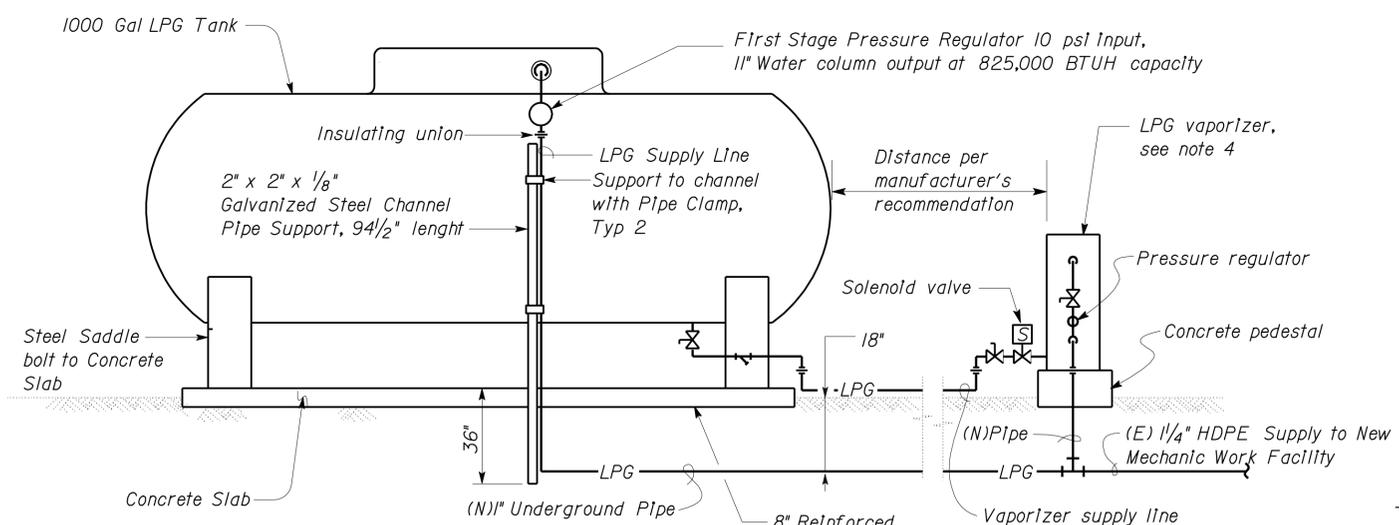
PLAN
NO SCALE

- Notes:
1. Mount Warning Signs for LPG Tank on 2" Standard Galvanized Steel Pipe at the height of 50" and clamp to the back of guard post with two Stainless Steel Brackets at location as shown.
 2. Approximate LPG Tank Slab dimensions shall be 20' x 9'. Contractor shall verify tank dimensions before pouring slab.
 3. All pipe below grade to be coated black steel.
 4. LPG vaporizer shall be electric type, capable of vaporizing 12.5 gph LPG @ 0°F.
 5. Warning shall be lettered in red letters, 1/2" high, on a white background and shall state the following:

NO SMOKING, OPEN FLAMES OR OTHER SOURCE OF IGNITION PERMITTED WITHIN 50 FEET

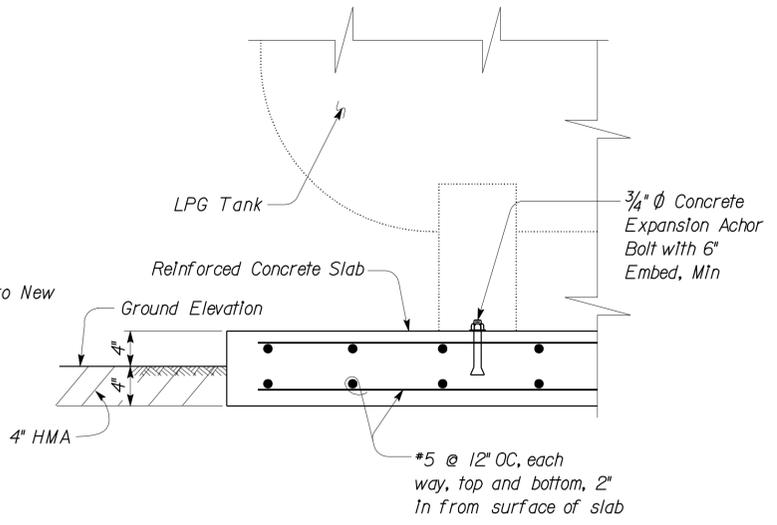


2 GUARD POST
NO SCALE



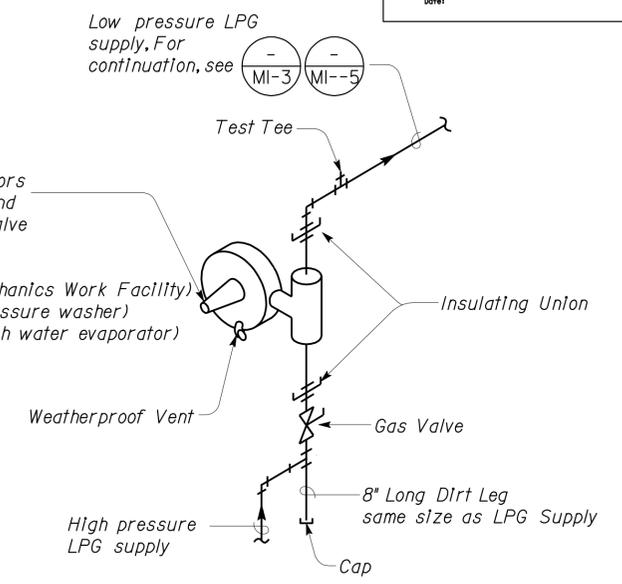
ELEVATION

1 LPG TANK
NO SCALE



A LPG TANK SLAB-SECTION

LPG Pressure Regulators with safety shut-off and full capacity Relief Valve 10 psi Input, 11" Water Column Output at:
 (N) 655,000 Btuh (Mechanics Work Facility)
 (E) 350,000 Btuh (Pressure washer)
 (E) 375,000 Btuh (Wash water evaporator)



3 SECOND STAGE LPG PRESSURE REGULATOR
NO SCALE

CALIFORNIA STATE FIRE MARSHAL APPROVED

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Reviewed by: *Bill Robertson*
 BILL ROBERTSON
 09/02/09

DESIGN	BY <i>Solomon Wong</i>	CHECKED <i>Alvin Kwan</i>
DETAILS	BY <i>J.R. Stangl</i>	CHECKED <i>Alvin Kwan</i>
QUANTITIES	BY <i>Solomon Wong</i>	CHECKED <i>Alvin Kwan</i>

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO. 47M5717
 POST MILE X

SONORA JUNCTION MAINTENANCE STATION MECHANIC'S WORK FACILITY

MECHANICAL DETAILS III

SHEET M2-2 OF

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 09603
 EA 315201

DISREGARD PRINTS BEARING EARLIER REVISION DATES	9/16/09	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	93.8	62	82

Solomon C. Wong 09/16/09
REGISTERED MECHANICAL ENGINEER DATE

1-11-10
PLANS APPROVAL DATE

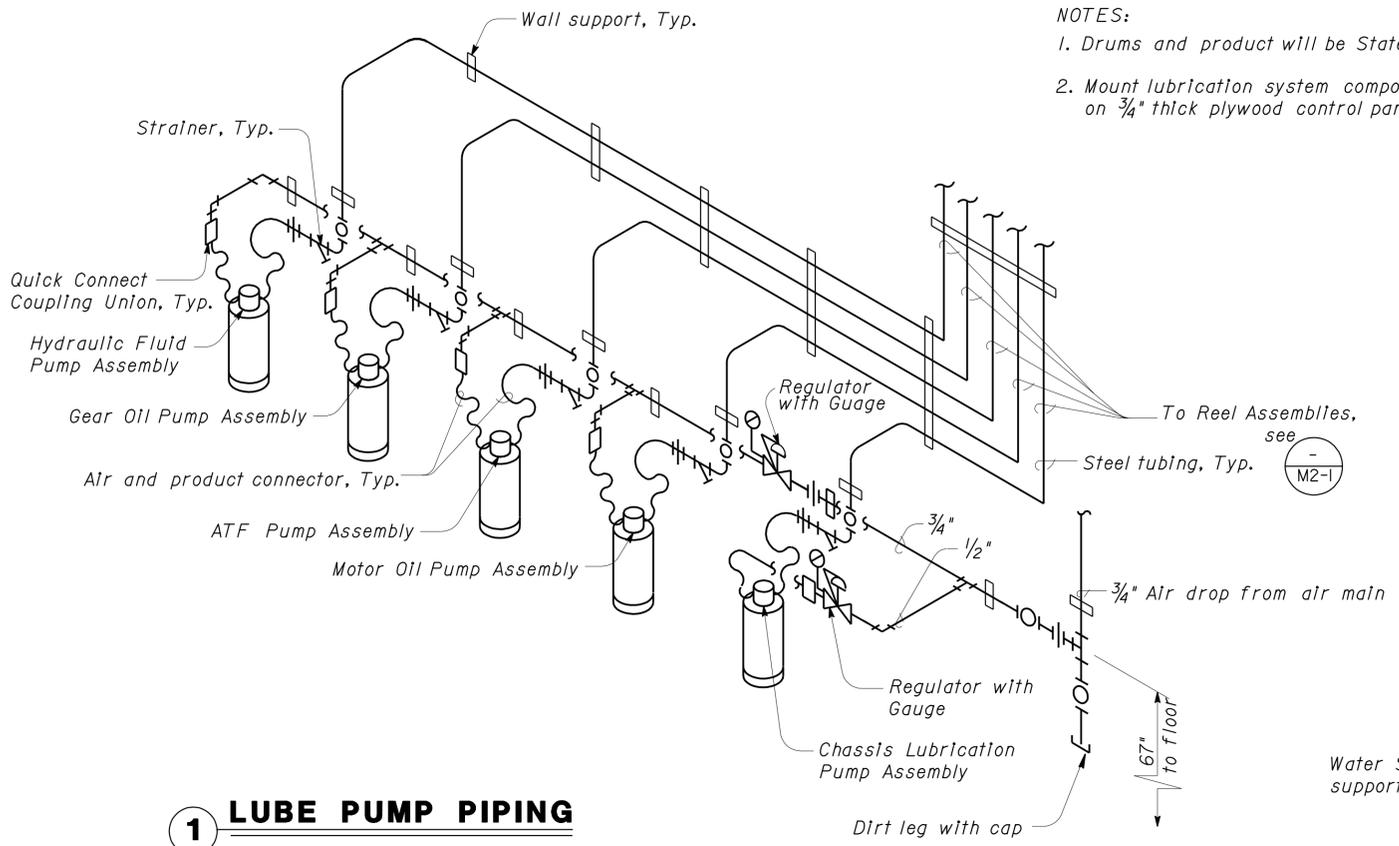
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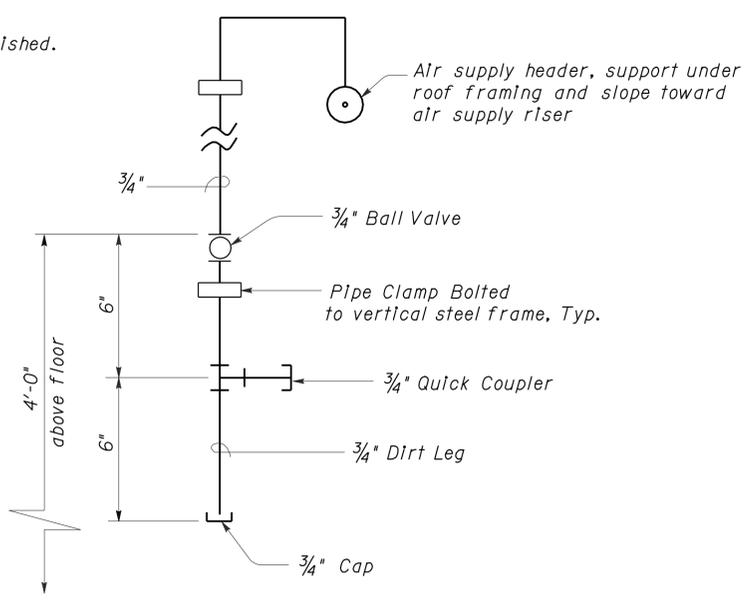
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Reviewed by: *Bill Robertson*
BILL ROBERTSON
09/02/09

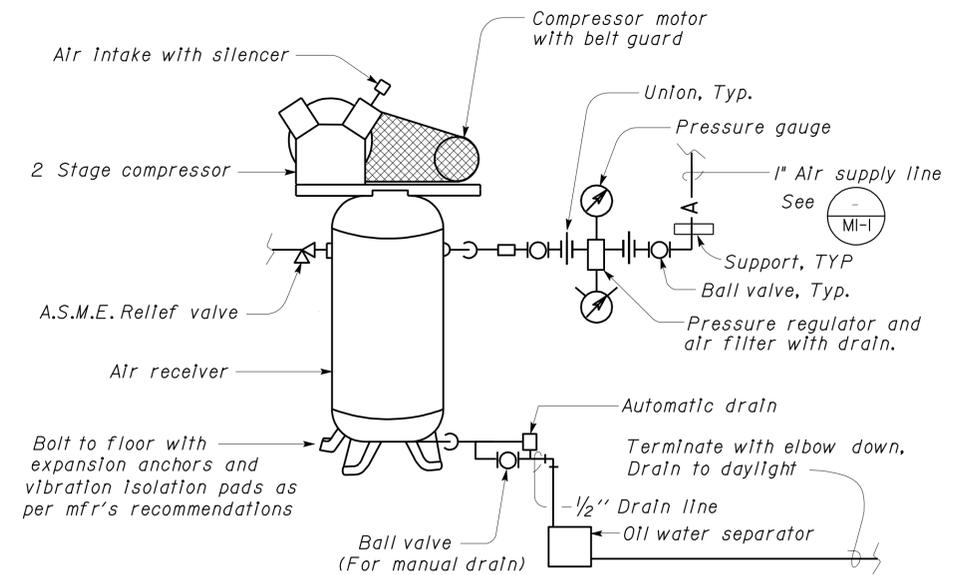


1 LUBE PUMP PIPING
NO SCALE

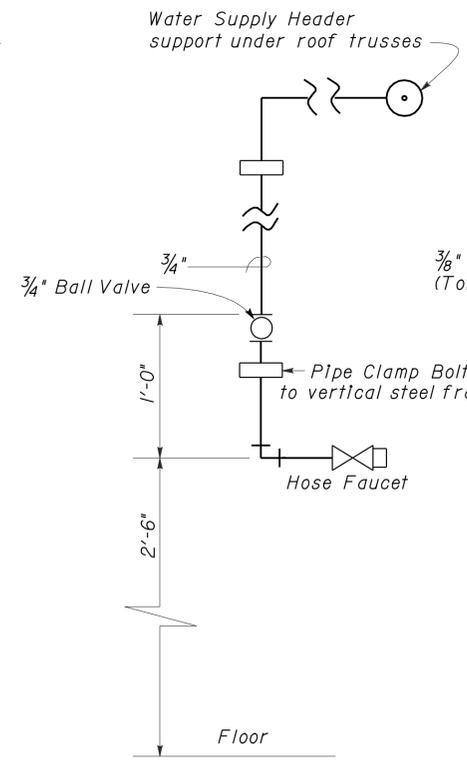
NOTES:
1. Drums and product will be State furnished.
2. Mount lubrication system components on 3/4" thick plywood control panel.



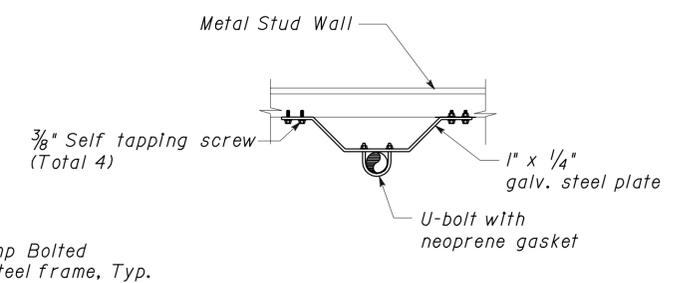
3 AIR DROP
No Scale



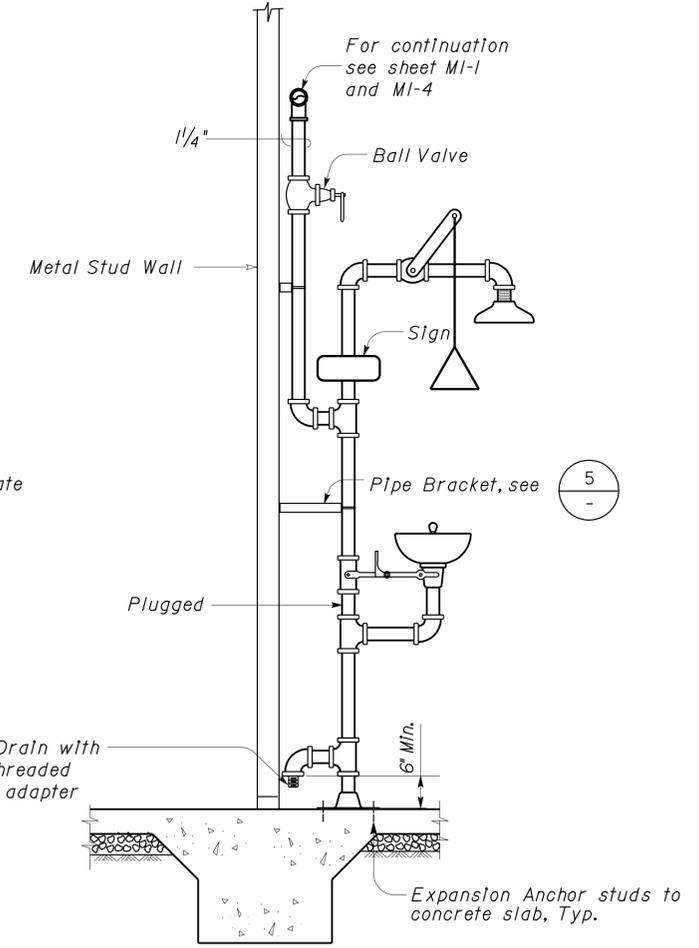
2 AIR COMPRESSOR
No Scale



4 WATER DROP
No Scale



5 EMERGENCY EYEWASH AND SHOWER BRACKET
NO SCALE



6 EMERGENCY EYEWASH AND SHOWER DETAIL
NO SCALE

DESIGN	BY <i>Solomon Wong</i>	CHECKED <i>Alvin Kwan</i>
DETAILS	BY <i>J.R. Stangl</i>	CHECKED <i>Alvin Kwan</i>
QUANTITIES	BY <i>Solomon Wong</i>	CHECKED <i>Alvin Kwan</i>

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO. 47M5717
POST MILE X

SONORA JUNCTION MAINTENANCE STATION MECHANIC'S WORK FACILITY

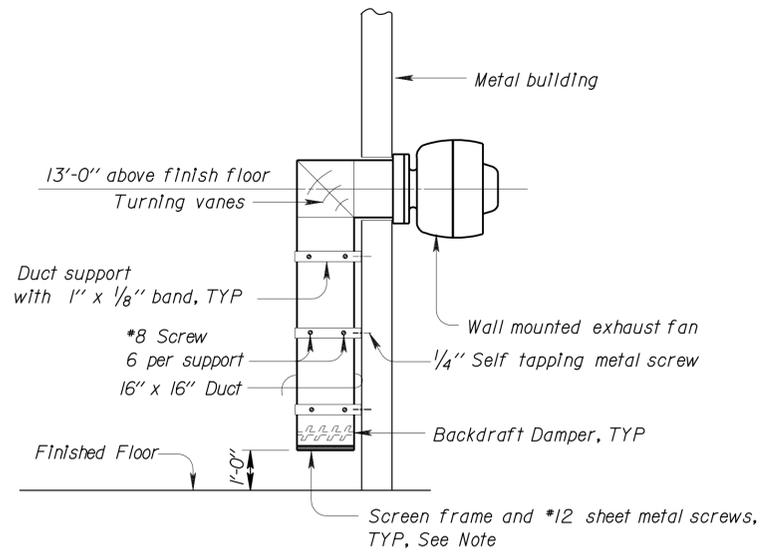
MECHANICAL DETAILS IV

SHEET M2-3

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	93.8	63	82

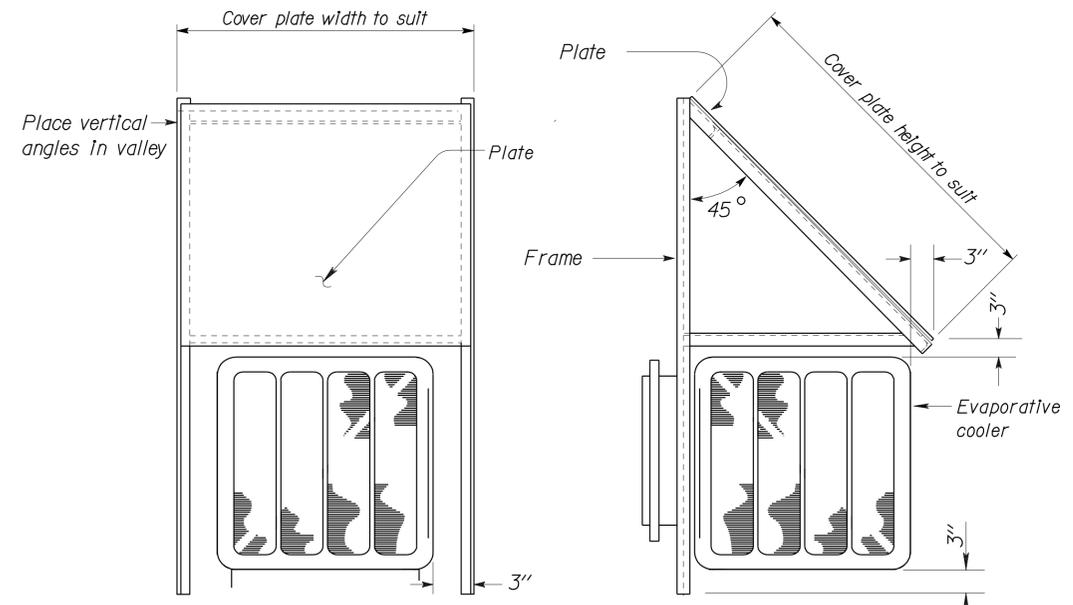
<i>Solomon C. Wong</i> 09/16/09 REGISTERED MECHANICAL ENGINEER DATE		
1-11-10 PLANS APPROVAL DATE		

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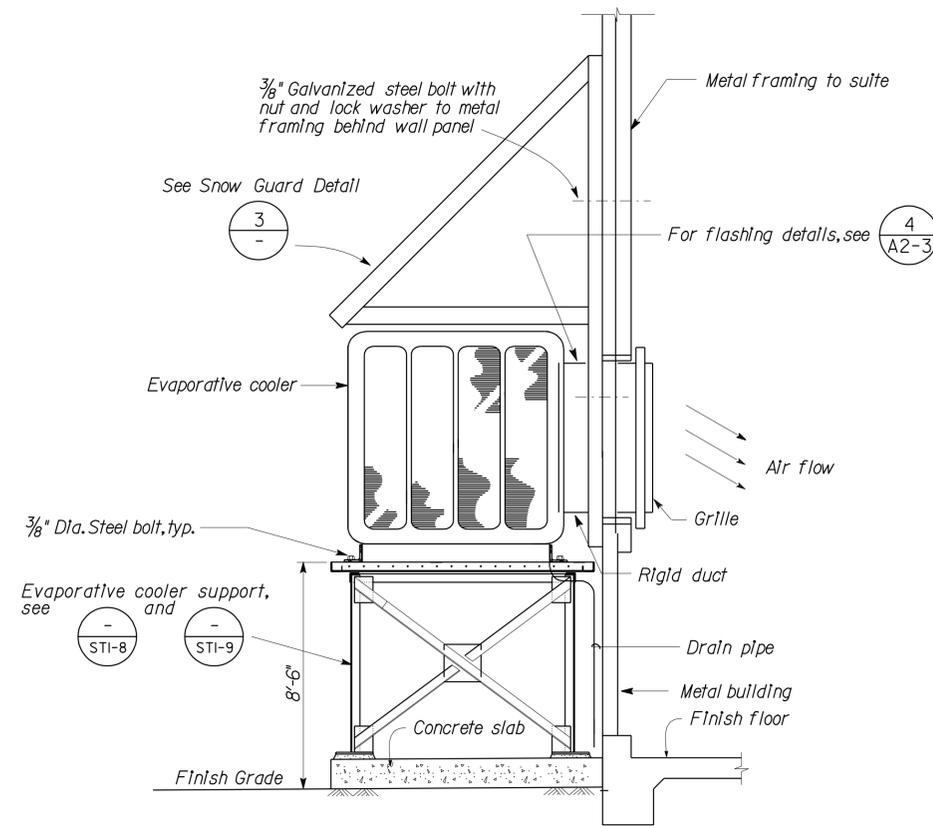
Note: Install sheet metal frame and 1/2" expanded metal inlet duct screen.

1 DECLASSIFICATION FAN ELEVATION
No Scale

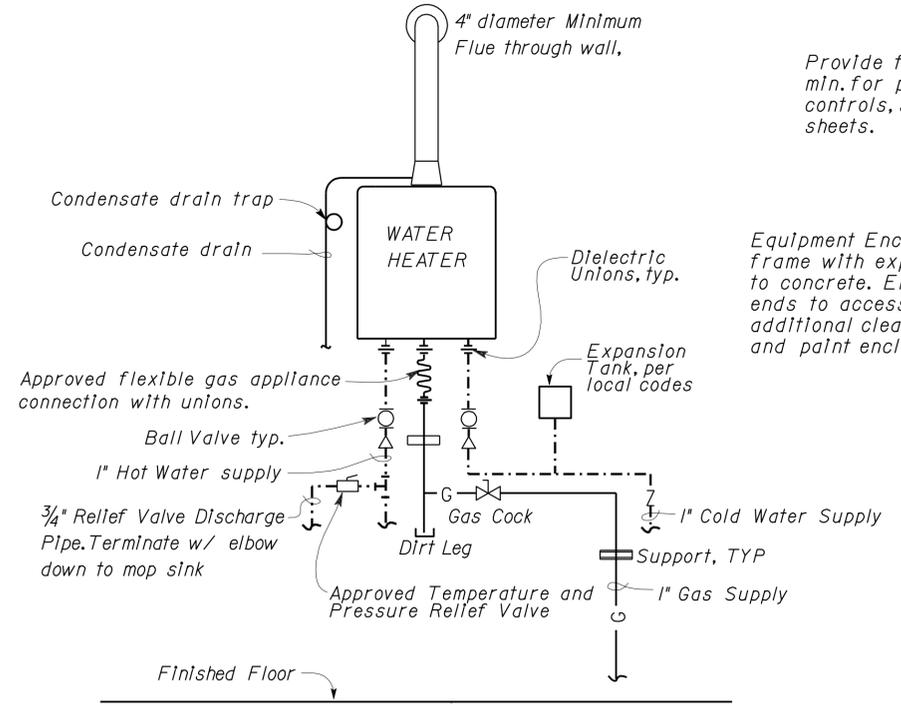


- Notes:
- Overhang Frame Shall Be Galvanized Steel, L 2" x 2" x 1/4", all welded construction.
 - Plate shall be Galvanized Steel, 12 gage, bolted to frame with 3/8" bolts and locknuts on 6" centers. Frame shall be bolted to building with 3/8" bolts and locknuts on 6" centers.
 - Overhang size shall be suitable for the evaporative cooler installed.
 - Mount snow guard to building wall with 3/8" Bolt and nut. Install at 9" O.C. MAX, through metal framing behind wall panel.

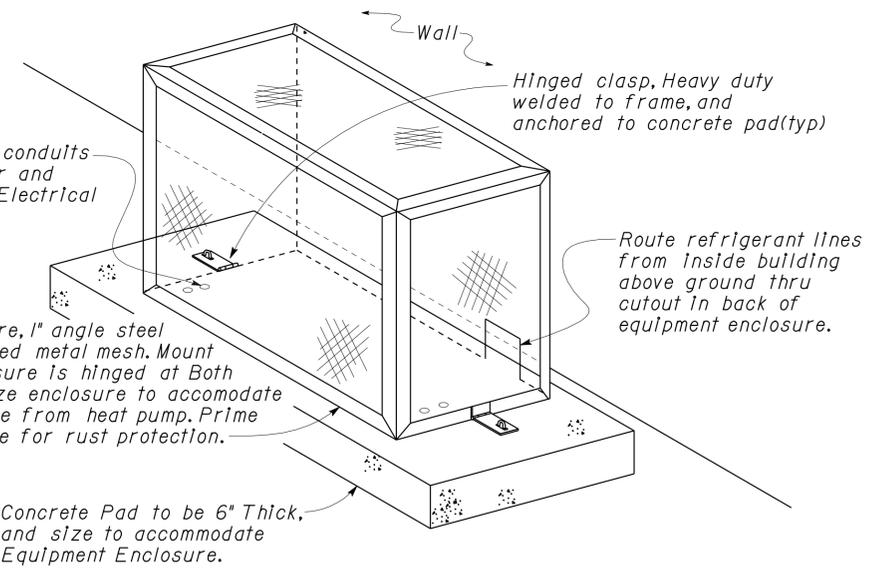
3 SNOW GUARD DETAIL
No Scale



2 EVAPORATIVE COOLER
No Scale



4 TANKLESS GAS WATER HEATER
No Scale



Provide four conduits min. for power and controls, see Electrical sheets.

Equipment Enclosure, 1" angle steel frame with expanded metal mesh. Mount to concrete. Enclosure is hinged at Both ends to access. Size enclosure to accommodate additional clearance from heat pump. Prime and paint enclosure for rust protection.

Concrete Pad to be 6" Thick, and size to accommodate Equipment Enclosure.

NOTE:
The enclosure shall encompass the heat pump. Center the enclosure on the concrete pad and then evenly space the unit within the enclosure. Submit working drawings for approval.

5 EQUIPMENT ENCLOSURE DETAIL
No Scale

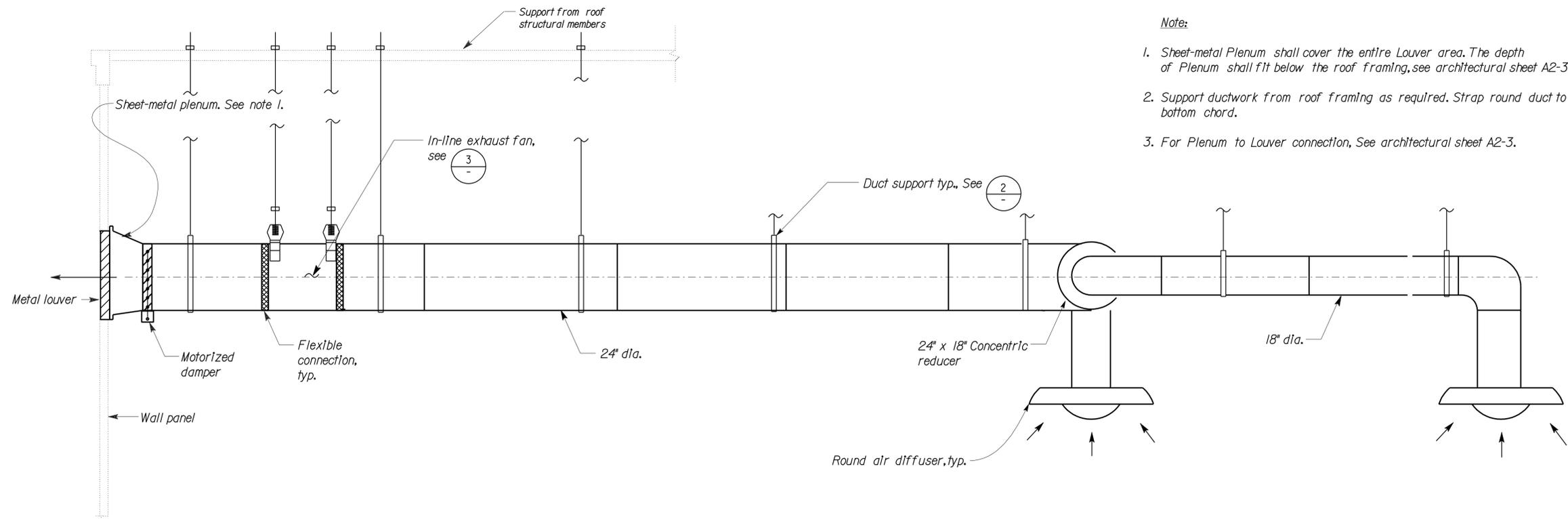
DESIGN	BY	Solomon Wong	CHECKED	Alvin Kwan	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	47M5717	SONORA JUNCTION MAINTENANCE STATION MECHANIC'S WORK FACILITY	SHEET M2-4	
	DETAILS	BY	J.R. Stangl	CHECKED			Alvin Kwan	POST MILE			X
	QUANTITIES	BY	Solomon Wong	CHECKED			Alvin Kwan	MECHANICAL DETAILS V			

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0	1	2	3	CU 09603 EA 315201	DISREGARD PRINTS BEARING EARLIER REVISION DATES	9/16/09	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	93.8	64	82
Solomon C. Wong 09/16/09 REGISTERED MECHANICAL ENGINEER DATE					
1-11-10 PLANS APPROVAL DATE					
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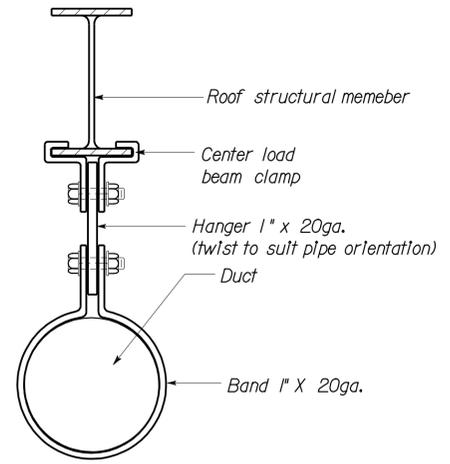


CALIFORNIA STATE FIRE MARSHAL
 APPROVED
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 Reviewed by: *Bill Robertson*
 BILL ROBERTSON
 09/02/09
 Date:

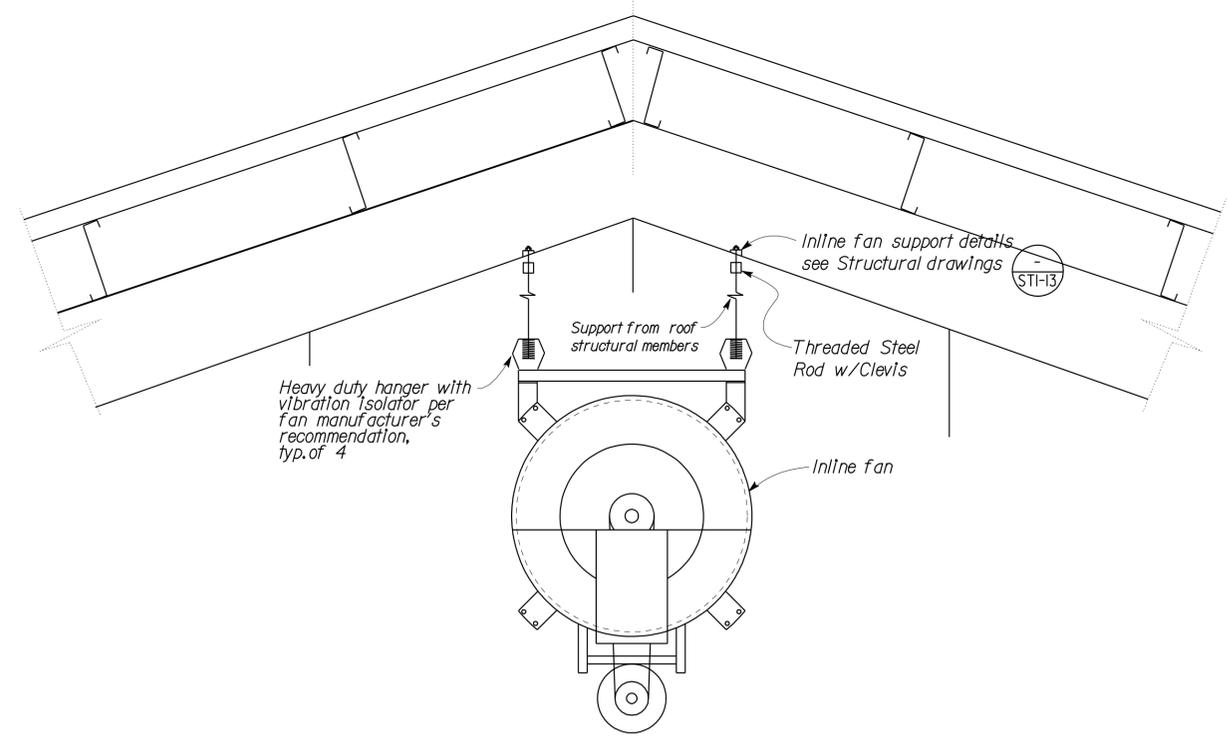


- Note:
- Sheet-metal Plenum shall cover the entire Louver area. The depth of Plenum shall fit below the roof framing, see architectural sheet A2-3.
 - Support ductwork from roof framing as required. Strap round duct to bottom chord.
 - For Plenum to Louver connection, See architectural sheet A2-3.

1 FUME EXHAUST DUCT ELEVATION
 No Scale



2 DUCT SUPPORT
 No Scale



3 FUME EXHAUST FAN
 No Scale

DESIGN	BY Solomon Wong	CHECKED Alvin Kwan
DETAILS	BY J.R. Stangl	CHECKED Alvin Kwan
QUANTITIES	BY Solomon Wong	CHECKED Alvin Kwan

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

BRIDGE NO.	47M5717	SONORA JUNCTION MAINTENANCE STATION MECHANIC'S WORK FACILITY
POST MILE	X	
MECHANICAL DETAILS VI		SHEET OF
		M2-5

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	93.8	65	82

Solomon C. Wong 09/16/09
REGISTERED MECHANICAL ENGINEER DATE

Solomon Wong
No. M27626
Exp. 6-30-11
MECH
STATE OF CALIFORNIA

1-11-10
PLANS APPROVAL DATE

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CALIFORNIA STATE FIRE MARSHAL
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Reviewed by: *Bill Robertson*
BILL ROBERTSON
09/02/09

Date:

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
A/C-1 Office Parts Room	SPLIT SYSTEM HEAT PUMP (Ductless): WT = 30 lbs, Qty. = 1 Cooling Capacity : 12,000 Btuh nominal, @ 95F Ambient temperature and 80F DB/67F WB Indoor temperature Heating Capacity : 13,600 Btuh nominal, @ 18F Ambient temperature and 70F DB/60F WB Indoor temperature Evap. Blower : 250 cfm @ 0 Inch E.S.P. SEER: 22 Unit Electrical : 230 V- 1Ph - 60Hz HSPF: 10 Route condensate drain pipe to outdoor above grade.	UH-1 UH-2 UH-3 Service Bay & Mechanic Bay	UNIT HEATER: WT = 150 lbs, Qty. = 3 Input Capacity : 75,000 Btuh burner, propane gas Evap. Blower : 800 cfm @ 0 Inch E.S.P. Unit Electrical : 1/4 Hp 115 V- 1Ph - 60Hz Unit heaters shall be controlled by wall mounted thermostats and time switches (4 hrs dial).	JC Service Bay & Mechanic Bay	JIB CRANE/HOIST: WT = 180 lbs, Qty. = 1 Capacity : 2 Ton Unit Electrical : 1.2 Hp, 230 V- 1Ph - 60Hz Hoist shall be operated by hand held pendant control.
EF-1 Restroom	EXHAUST FAN (ceiling mounted): WT= 15 lbs. Quantity = 1 Air : 150 cfm @ 0.25 Inch w.g. E.S.P., 2l soles max. Unit Electrical : 80 Watts, 115 V - 1 Ph - 60Hz Provide local disconnect at exhaust fan. Fan shall be controlled by light switch.	LIRH-1 LIRH-2 Service Bay & Mechanic Bay	LOW INTENSITY RADIANT HEATER : WT= 150 lbs. Quantity = 2 Input capacity : 100,000 (LIRH-2) and 150,000 (LIRH-1) Btuh 2-stage burner, propane gas Unit Electrical : 0.07 HP, 115 V - 1 Ph - 60Hz Radiant heaters shall be controlled by wall mount thermostats and time switches (4 hrs dial).		
EF-2 Utility Room	EXHAUST FAN (ceiling mounted): WT= 21 lbs. Quantity = 1 Air : 227 cfm @ 0.25 Inch w.g. E.S.P., 2l soles max. Unit Electrical : 83 Watts, 115 V - 1 Ph - 60Hz Provide local disconnect at exhaust fan. Fan shall be controlled by wall mounted on-off switch.	EC-1 Service Bay	EVAPORATIVE COOLER : Quantity = 1 Air : 6,000 cfm @ 0.2 Inch w.g. E.S.P. Unit Electrical : 1.0 HP, 230 V - 1 Ph - 60Hz Evaporative cooler shall be horizontal discharge unit and controlled by a wall mounted selective switch.		
EF-3 Service Bay & Mechanic Bay	FUME EXHAUST FAN (Inline fan): WT= 250 lbs. Quantity = 1 Air : 3000 cfm @ 0.5 Inch w.g. E.S.P. 2l soles max. Unit Electrical : 1.0 HP, 230 V - 3 Ph - 60Hz Provide local disconnect at exhaust fan and motorized damper. Fan shall be controlled by wall mounted on-off switch.	AC-1 Utility Room	AIR COMPRESSOR (verticle unit): Quantity = 1 Capacity : 175 psi @ 17 cfm free air delivery, 80 gallon verticle tank Unit Electrical: 5 HP, 230 V- 3Ph - 60HZ		
EF-4 Service Bay	EXHAUST FAN (Declassification fan): WT= 150 lbs. Quantity = 1 Air : 4400 cfm @ 0.25 Inch w.g. E.S.P., 2l soles max. Unit Electrical : Explosion Proof motor 0.75HP, 230 V - 1Ph - 60Hz Provide local disconnect at exhaust fan and backdraft damper. Fan shall be controlled by wall mounted on-off switch.	EW-C Mechanic Bay	ELECTRIC WATER COOLER: Quantity = 1 Capacity : 8 Gallon per hour cooling capacity Unit Electrical: 460 watts, 115 V- 3Ph - 60HZ		
EF-5 Restroom	COMBINATION HEAT/ LIGHT/ CEILING EXHAUST FAN: Quantity = 1 Air : 100 cfm @ 0.25 Inch w.g. E.S.P., 2 soles max. Unit Electrical : 14 Amps, 115 V - 1 Ph - 60Hz Route 6 Inch dia. duct as shown. Fan shall be complete with backdraft damper and vent hood with birdscreen. Provide 1/27 watt fluorescent bulb and 1500 watts heater.	WH-1 Utility Room	WATER HEATER (tankless LPG): WT= 55 lbs. Quantity = 1 Capacity : Heat-on-demand Unit Input : 180,000 Btuh min., LPG Unit Electrical: 115 V- 1Ph - 60HZ		
VEEF-1 Service Bay & Mechanic Bay	EXHAUST EVACUATION HOSE REEL AND FAN: Air : 1000 cfm WT= 65 lbs. Quantity = 1 Unit Electrical : 1.0 HP, 230 V - 3 Ph - 60Hz Fan and hose reel shall be controlled by a remote operated 3 button (fan on-off, up, down) control switch.	VPR-1 Adjacent to LPG tank	LPG VAPORIZER : WT= 90 lbs. Quantity = 1 Unit Electrical : 3.9 KW, 230V - 3Ph - 60Hz Vaporizer shall be operating automatically depending on natural vaporization of the LPG tank in meeting with the gas usage.		

DESIGN	BY <i>Solomon Wong</i>	CHECKED <i>Alvin Kwan</i>
DETAILS	BY <i>J.R. Stangl</i>	CHECKED <i>Alvin Kwan</i>
QUANTITIES	BY <i>Solomon Wong</i>	CHECKED <i>Alvin Kwan</i>

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO. 47M5717
POST MILE X

SONORA JUNCTION MAINTENANCE STATION
MECHANIC'S WORK FACILITY
EQUIPMENT SCHEDULE

SHEET OF M2-6

GRAPHIC SYMBOLS FOR ELECTRICAL WIRING AND LAYOUT DIAGRAMS

SYMBOL	DESCRIPTION
	POLE-TOP ELECTROLIER
	POLE-ARM ELECTROLIER
CEILING WALL	
	SURFACE FLUORESCENT, METAL HALIDE OR SODIUM VAPOR FIXTURE
	RECESSED FLUORESCENT, METAL HALIDE, OR SODIUM VAPOR FIXTURE
	EXIT LIGHT
	SURFACE OR PENDANT INDIVIDUAL FLUORESCENT FIXTURE
	RECESSED INDIVIDUAL FLUORESCENT FIXTURE
	SURFACE OR PENDANT CONTINUOUS ROW FLUORESCENT FIXTURES
NOTE: A LOWER CASE LETTER NEAR GRAPHIC LIGHTING FIXTURE SYMBOL DENOTES THAT FIXTURE IS CONTROLLED BY A SIMILARLY MARKED SWITCH, AN ALPHANUMERIC SYMBOL NEAR GRAPHIC LIGHTING FIXTURE SYMBOL DENOTES FIXTURE TYPE, (I=INCANDESCENT, F=FLUORESCENT, MH=METAL HALIDE, H=HIGH PRESSURE SODIUM VAPOR), DESIGN TYPE, NUMBER OF LAMPS AND WATTAGE. EXAMPLE: (4) F 2 - 2 x 32	
	JUNCTION BOX
	DROP CORD
	SINGLE RECEPTACLE OUTLET
	DUPLEX RECEPTACLE OUTLET
	DUPLEX RECEPTACLE OUTLET (WITH GFCI)
	DUPLEX RECEPTACLE OUTLET, WEATHERPROOF (WITH GFCI)
	QUAD RECEPTACLE OUTLET
	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
S	SINGLE POLE SWITCH
S ₂	DOUBLE POLE SWITCH
S ₃	THREE WAY SWITCH
S ₄	FOUR WAY SWITCH
S _D	AUTOMATIC DOOR
S _K	KEY OPERATED SWITCH
S _P	SWITCH AND PILOT LIGHT
S _{MC}	MOMENTARY CONTACT SWITCH
S _{RC}	REMOTE CONTROL SWITCH
S _{WP}	WEATHERPROOF SWITCH
S _F	FAN SWITCH
S _L	LIGHT SWITCH
S _H	HEATER SWITCH
S _{VS}	VARIABLE SPEED MOTOR CONTROL SWITCH
S _{CHLF}	TWO SWITCHES AND TIMER, ONE SWITCH FOR LIGHT AND FAN AND ONE SWITCH FOR HEATER

SYMBOL	DESCRIPTION
S ₁	OCCUPANCY SENSOR WALL SWITCH, SINGLE LEVEL
S ₂	OCCUPANCY SENSOR WALL SWITCH, BILEVEL
S _M	MOTION SENSOR SWITCH
S _T	MANUAL MOTOR STARTING SWITCH, THERMAL OVERLOAD TYPE, WITH PILOT LIGHT
S _{HP}	MANUAL MOTOR STARTING SWITCH, WITHOUT OVERLOAD ELEMENT
T _S	TIMER SWITCH
	SWITCH AND SINGLE RECEPTACLE
	SWITCH AND DUPLEX RECEPTACLE
	HAND DRYER NOZZLE
	HAND DRYER
	RADIO OUTLET
	COMMUNICATION OUTLET
	SOUND SYSTEM LOUD SPEAKER OUTLET
	PUSHBUTTON
	PUSHBUTTON STATION, NC, WITH LOCKING DEVICE FOR OPEN
	PUSHBUTTON STATION MOTOR CONTROL
	BUZZER
	BELL
	THERMOSTAT
	PRESSURE SWITCH
	CONTROL RELAY
	FLOW SWITCH
	PHOTOELECTRIC CELL
	RADIO OUTLET
	TELEVISION OUTLET
	MICROPHONE OUTLET
	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
	CONDUIT EXPOSED
	CROSS-LINES INDICATE NUMBER OF #12 AWG CONDUCTORS. LONGER CROSS-LINE INDICATES #12 AWG (G) FOR EQUIPMENT GROUNDING CONDUCTOR. NO CROSS-LINE INDICATES 2#12 WITH #12 (G) UNLESS OTHERWISE NOTED. ALL CONDUIT SHALL BE 1/2" UNLESS OTHERWISE NOTED.
	HOMERUN TO PANELBOARD, ARROWS INDICATE NUMBER OF CIRCUITS, LETTER DENOTES PANELBOARD, NUMERAL DENOTES CIRCUIT.
	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)
	CONDUIT, RIGID STEEL, UNDERGROUND
	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

SYMBOL	DESCRIPTION
	OCCUPANCY SENSOR
	OCCUPANCY SENSOR POWER PACK
	HEAT DETECTOR
	SMOKE DETECTOR
	MANUAL PULL STATION
	AUDIO/VISUAL ALARM DEVICE
	GLASS BREAK DISCRIMINATOR
	MAGNETIC CONTACT SWITCH-PEDESTRIAN DOOR
	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
	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
	EXISTING CONDUIT AND CONDUCTORS-TO REMAIN UNLESS OTHERWISE NOTED
	EXISTING CONDUIT AND CONDUCTORS-REMOVE
	EXISTING SWITCH-TO REMAIN
	EXISTING SWITCH-REMOVE
	EXISTING JUNCTION BOX-TO REMAIN
	EXISTING JUNCTION BOX-REMOVE

STANDARD NOTES

	ABANDON, IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.
	INSTALL PULL BOX IN EXISTING CONDUIT RUN.
	INSTALL CONDUIT INTO EXISTING PULL BOX.
	CONNECT NEW AND EXISTING CONDUIT. REMOVE EXISTING CONDUCTORS AND INSTALL CONDUCTORS AS INDICATED.
	CONDUIT TO REMAIN FOR FUTURE USE. REMOVE CONDUCTORS, INSTALL PULL ROPE AND PLUG.
	REMOVE FOUNDATION ABOVE GRADE AND ABANDON FOUNDATION BELOW GRADE.
	RELOCATE EQUIPMENT.
	RELOCATED EQUIPMENT.
	SPLICE NEW TO EXISTING CONDUCTORS.

GRAPHIC SYMBOLS FOR ELECTRICAL DIAGRAMS

SYMBOL	DESCRIPTION
	CIRCUIT BREAKER, SINGLE POLE
	CIRCUIT BREAKER, DOUBLE POLE
	CIRCUIT BREAKER, THREE POLE
	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 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)
	GENERATOR
	MOTOR
	FAN MOTOR

PROJECT NOTES

- A. SEPARATE GROUNDED (NEUTRAL) CONDUCTOR SHALL BE USED FOR EACH 120-VOLT CIRCUIT.
- B. HOMERUNS TO PANELBOARDS SHALL BE INSTALLED AS SHOWN ON THE PLANS. HOMERUNS SHALL NOT BE COMBINED.
- C. A SINGLE INSULATED EQUIPMENT GROUNDING CONDUCTOR (SIZED AS REQUIRED) SHALL BE INSTALLED IN EACH CONDUIT RUN.

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	93.8	66	82

REGISTERED ELECTRICAL ENGINEER DATE 9-16-09

1-11-10 PLANS APPROVAL DATE

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ABBREVIATIONS

A	AMPERES
A/C	AIR CONDITIONING UNIT
ACS	AIR COMPRESSOR STARTER
AI	ANALOG INPUT
AL	ALARM LIGHT
AO	ANALOG OUTPUT
AVC	AIR VOLUME CONTROLLER
BD	BUILDING DISCONNECT
BRK	BREAKER
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CR	CONTROL RELAY
CSW	CURRENT SWITCH
DI	DIGITAL INPUT
DO	DIGITAL OUTPUT
DP	DUPLEX PLUG RECEPTACLE
DS	DOOR SWITCH
(E)	EXISTING
EF	EXHAUST FAN
F	FUSE
FL	FAILURE LIGHT
FLA	FLASHER
FLEX	FLEXIBLE CONDUIT
FLS	FLOW SWITCH
FR	FAILURE RESET
FS	FLOAT SWITCH
G	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GRS	GALVANIZED RIGID STEEL
IR	INDUCTION RELAY
JB	JUNCTION BOX
L	LIGHT
LC	LIGHTING CONTACTOR
LCP	LIGHTING CONTROL PANEL
LD	LIGHT DISCONNECT
LL	LIQUID LEVEL RELAY
LLC	LIQUID LEVEL CONTROLLER
LP	LIGHT PANEL
LS	LIGHT SWITCH
LT	LIGHT TRANSFORMER
LTO	LIGHT TRANSFORMER OVERLOAD
MB	MAIN BREAKER
MC	METALLIC CONDUIT
MCP	MOTOR CIRCUIT PROTECTOR
MCC	MOTOR CONTROL CENTER
MSB	MAIN SWITCHBOARD
MT	EMPTY CONDUIT
(N)	NEW
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NSW	NEUTRAL SWITCHING BREAKER
OL	OVERLOAD
P	POLE
PB	PULL BOX
PB	PUSHBUTTON
PFR	PHASE FAILURE RELAY
PFRD	PHASE FAILURE RELAY DISCONNECT
PEC	PHOTOELECTRIC CELL
PL	PILOT LIGHT
PS	PRESSURE SWITCH
PTS	POWER TRANSFER SWITCH
PVC	POLYVINYL CHLORIDE
RES	RESISTOR
RTB	RADIO TERMINAL BOARD
S	STARTER COIL
SD	SERVICE DISCONNECT
SFR	SEAL FAILURE RELAY
SL	SUMP LIGHT
SPR	STANDBY POWER RECEPTACLE
SS	SELECTOR SWITCH
ST	STARTER
SV	SOLENOID VALVE
T	TRANSFORMER
TB	TERMINAL BLOCK
TDR	TIME DELAY RELAY
TGLS	TOGGLE SWITCH
TM	TIME METER
TOT	TOTAL
TS	TIMER SWITCH
TSW	TEST SWITCH
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
UPS	UNINTERRUPTIBLE POWER SUPPLY
WLS	WATER LEVEL SWITCH
WP	WEATHERPROOF

CALIFORNIA STATE FIRE MARSHAL APPROVED

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Reviewed by: *Bill Robertson*
BILL ROBERTSON
Approval date: 09/02/09

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

PROJECT NAME	Sonora Junction Maintenance Station Mechanic's Work Facility	DATE	06/22/2009
PROJECT ADDRESS	93922 Highway 395, Bridgeport, CA 93517		
PRINCIPAL DESIGNER-LIGHTING	Imran Saeed	TELEPHONE	(916) 227-8202
DOCUMENTATION AUTHOR	Imran Saeed	TELEPHONE	(916) 227-8202
		Building Permit #	
		Checked by/Date	Enforcement Agency Use

GENERAL INFORMATION			
DATE OF PLANS	06/22/2009	BUILDING CONDITIONED FLOOR AREA	2921 sq ft
CLIMATE ZONE	14		
BUILDING TYPE	<input checked="" type="checkbox"/> NONRESIDENTIAL	<input type="checkbox"/> HIGH RISE RESIDENTIAL	<input type="checkbox"/> HOTEL/MOTEL GUEST
<input checked="" type="checkbox"/> CONDITIONED SPACES	<input type="checkbox"/> UNCONDITIONED SPACES	<input type="checkbox"/> INDOOR / OUTDOOR SIGNS	
PHASE OF CONSTRUCTION	<input checked="" type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> ADDITION	<input type="checkbox"/> ALTERATION
METHOD OF COMPLIANCE			
<input type="checkbox"/> PERFORMANCE	<input type="checkbox"/> COMPLETE BUILDING	<input checked="" type="checkbox"/> AREA CATEGORY	<input type="checkbox"/> TAILORED
<input type="checkbox"/> COMMON LIGHTING			
STATEMENT OF COMPLIANCE			

This Certificate of Compliance lists the building features and performance specifications needed to comply with Title 24, Parts 1 and 6 of the California Code of Regulations. This certificate applies only to building lighting requirements.

The documentation preparer hereby certifies that the documentation is accurate and complete.

DOCUMENTATION AUTHOR	SIGNATURE	DATE
Imran Saeed	<i>Imran Saeed</i>	06/22/2009

The Principal Lighting Designer hereby certifies that the proposed building design represented in this set of construction documents is consistent with the other compliance forms and worksheets, with the specifications, and with any other calculations submitted with this permit application. The proposed building has been designed to meet the lighting requirements contained in the applicable parts of Sections 110, 119, 130 through 132, 146, 148, and 149 of Title 24, Part 6.

- The plans & specifications meet the requirements of Part 6 (Sections 10-103a). The installation certificates meet the requirements of Part 6 (10-103a3).
- The operation & maintenance information meets the requirements of Part 6 (10-103c). Please check one: (These sections of the Business and Professions Code are printed in full in the Nonresidential Manual.)
- I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation; and that I am licensed in the State of California as a civil engineer or electrical engineer, or I am a licensed architect.
- I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code by section 5537.2 or 6737.3 to sign this document as the person responsible for its preparation; and that I am a licensed contractor performing this work.
- I affirm that I am eligible under Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant to Business and Professions Code Sections 5537, 5538 and 6737.1

PRINCIPAL LIGHTING DESIGNER-NAME	SIGNATURE	DATE	LIC.#
Imran Saeed	<i>Imran Saeed</i>	06/22/2009	E18781

Indicate location on plans of Note Block for Mandatory Measures

LIGHTING COMPLIANCE FORMS & WORKSHEETS (Check box if worksheet is included)	
<input checked="" type="checkbox"/> LTG-1-C, Parts 1 of 4 and 2 of 4	Certificate of Compliance. Part 1 of 4 and 2 of 4 are required for all submittals.
<input type="checkbox"/> LTG-1-C, Part 3 of 4	Certificate of Compliance. Part 3 of 4 submittal is required only if Control Credits are claimed.
<input type="checkbox"/> LTG-1-C, Part 4 of 4	Certificate of Compliance. Part 4 of 4 submittal is required when lighting controls are installed.
<input type="checkbox"/> LTG-2-C	Indoor Lighting Schedule
<input type="checkbox"/> LTG-3-C	Portable Lighting Worksheet
<input type="checkbox"/> LTG-4-C	Lighting Controls Credit Worksheet
<input type="checkbox"/> LTG-5-C	Indoor Lighting Power Allowance
<input type="checkbox"/> LTG-6-C	Tailored Method Worksheet
<input type="checkbox"/> LTG-7-C	Room Cavity Ratio Worksheet
<input type="checkbox"/> LTG-8-C	Common Lighting Systems Method Worksheet
<input type="checkbox"/> LTG-9-C	Line Voltage Track Lighting Worksheet
<input type="checkbox"/> OLTG-4-C	Signs (See OLTG-4-C Sign Worksheet in Chapter 6, Outdoor Lighting and Signs Chapter)

CERTIFICATE OF COMPLIANCE (Part 2 of 4) LTG-1-C

PROJECT NAME	Sonora Junction Maintenance Station Mechanic's Work Facility	DATE	06/22/2009
INSTALLED INDOOR LIGHTING POWER FOR CONDITIONED AND UNCONDITIONED SPACES			

INSTALLED LIGHTING, CONDITIONED SPACES (From LTG-2-C)	2528
PORTABLE LIGHTING (From LTG-3-C)	+ 0
LIGHTING CONTROL CREDIT, CONDITIONED SPACES (From LTG-4-C)	- 81.2
CONDITIONED SPACE ADJUSTED INSTALLED LIGHTING POWER	= 2447
INSTALLED LIGHTING, UNCONDITIONED SPACES (From LTG-2-C)	0
LIGHTING CONTROL CREDIT, UNCONDITIONED SPACES (From LTG-4-C)	- 0
UNCONDITIONED SPACE ADJUSTED INSTALLED LIGHTING POWER	= 0

ALLOWED INTERIOR LIGHTING POWER FOR CONDITIONED SPACES	
<input checked="" type="checkbox"/> COMPLETE BUILDING METHOD (From LTG-5-C)	
<input checked="" type="checkbox"/> AREA CATEGORY METHOD (From LTG-5-C)	
<input type="checkbox"/> TAILORED METHOD (From LTG-5-C)	
ALLOWED LIGHTING POWER	2908

ALTERNATE COMPLIANCE

<input checked="" type="checkbox"/> PERFORMANCE METHOD	
<input type="checkbox"/> COMMON LIGHTING SYSTEM (From LTG-8-C)	
ALLOWED INTERIOR LIGHTING POWER FOR UNCONDITIONED SPACE (From LTG-5-C)	0 Watts

MANDATORY LIGHTING MEASURES FOR INDOOR AND DAYLIT AREAS

CONTROL LOCATION (Room #, Area #, or Description)	CONTROL IDENTIFICATION	CONTROL TYPE (Auto Time Switch, Dimming, Photosensor, etc.)	SPACE CONTROLLED (Lists the location of controlled lights)	If Control is for Daylighting	NOTE TO FIELD
Office	S ₂ ⁰	Occupancy Sensor	Office		
Toilet	S ₁ ⁰	Occupancy Sensor	Toilet		
Utility Room	S ₁ ⁰	Occupancy Sensor	Utility Room		
Service/Mechanic Bay	TC2	Time Clock	Service/Mechanic Bay		

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	93.8	67	82

Imran Saeed
REGISTERED ELECTRICAL ENGINEER
DATE 9-16-09

1-11-10
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: *Bill Robertson*
BILL ROBERTSON
Approval date: 09/02/09

CERTIFICATE OF COMPLIANCE (Part 1 of 2) OLTG-1-C

PROJECT NAME Sonora Junction Maintenance Station Mechanic's Work Facility		DATE 06/22/2009
PROJECT ADDRESS 93922 Highway 395, Bridgeport, CA 93517		
PRINCIPAL DESIGNER-LIGHTING Imran Saeed	TELEPHONE (916) 227-8202	Building Permit #
DOCUMENTATION AUTHOR Imran Saeed	TELEPHONE (916) 227-8202	Checked by/Date Enforcement Agency Use

GENERAL INFORMATION

DATE OF PLANS 06/22/2009 OUTDOOR LIGHTING ZONE (✓ One) LZ1 LZ2 LZ3 LZ4

FUNCTION TYPE OUTDOOR LIGHTING OUTDOOR SIGNS INDOOR SIGNS

PHASE OF CONSTRUCTION NEW CONSTRUCTION ADDITIONS ALTERATIONS

STATEMENT OF COMPLIANCE

This Certificate of Compliance lists outdoor lighting system specifications needed to comply with Title 24, Parts 1 and 6 of the California Code of Regulations. This certificate applies only to building lighting requirements.

The documentation preparer hereby certifies that the documentation is accurate and complete.

DOCUMENTATION AUTHOR Imran Saeed	SIGNATURE 	DATE 06/22/2009
-------------------------------------	---------------	--------------------

The Principal Lighting Designer hereby certifies that the proposed outdoor lighting and signs design represented in this set of construction documents is consistent with the other compliance forms and worksheets, with the specifications, and with any other calculations submitted with this permit application. The proposed building has been designed to meet the lighting requirements contained in the applicable parts of Sections 110, 119, 130 through 132, 146, and 149 of Title 24, Part 6.

- I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation; and that I am licensed in the State of California as a civil engineer or electrical engineer, or I am a licensed architect.
- I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code by section 5537.2 or 6737.3 to sign this document as the person responsible for its preparation; and that I am a licensed contractor performing this work.
- I affirm that I am eligible under Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant to Business and Professions Code Sections 5537, 5538 and 6737.1.

(These sections of the Business and Professions Code are printed in full in the Nonresidential Manual.)

PRINCIPAL LIGHTING DESIGNER-NAME Imran Saeed	SIGNATURE 	DATE 06/22/2009	LIC.# E18781
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INSTRUCTIONS TO APPLICANT OUTDOOR LIGHTING COMPLIANCE & WORKSHEETS (Check box if worksheet is included)

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

<input checked="" type="checkbox"/> OLTG-1-C	Certificate of Compliance. Required on plans for all submittals for outdoor lighting. Part 2 of 2 may be incorporated in schedules on the plans.
<input type="checkbox"/> OLTG-2-C	LIGHTING COMPLIANCE SUMMARY. Applicable Parts required for ALL outdoor lighting allowances (Except for Signs).
<input type="checkbox"/> OLTG-3-C	AREA CALCULATIONS WORKSHEETS. Applicable parts required for all outdoor area calculations.
<input type="checkbox"/> OLTG-4-C	SIGN LIGHTING COMPLIANCE. Required for all internally and externally illuminated signs, for both indoor and outdoor signs.

2005 Nonresidential Compliance Forms **January 2006**

CERTIFICATE OF COMPLIANCE (Part 2 of 2) OLTG-1-C

PROJECT NAME Sonora Junction Maintenance Station Mechanic's Work Facility
--

Lighting Schedules on Plans Show that Outdoor Lighting Meets Allowed Lighting Power

- Lighting power allowances for general site illumination on OLTG-2-C Part 1 of 4
- Not applicable
- Lighting power allowances for local ordinances or for security multipliers on OLTG-2-C Part 2 of 4
- Not applicable
- Lighting power allowances for specific applications, other than vehicle service stations with canopies on OLTG-2-C Part 3 of 4
- Not applicable
- Lighting power allowances for vehicle service station without canopies on OLTG-2-C Part 4 of 4
- Not applicable
- Sign lighting compliance on OLTG-4-C
- Not applicable

Mandatory Measures on Plans Show that Outdoor Lighting Meets Outdoor Lighting Controls and Equipment
Indicate location on plans of Note Block for Mandatory Measure

- Installed lighting power has been determined in accordance with § 130(c)1
- Not applicable
- All permanently installed luminaires with lamps rated over 100 watts either have a lamp efficacy of at least 60 lumens per watt or are controlled by a motion sensor § 132(a)
- Not applicable
- All Luminaires with lamps rated greater than 175 watts in hardscape areas, including parking lots, building entrances, canopies, and all outdoor sales areas meet the Cutoff Requirements of § 132(b)
- Not applicable
- All permanently installed outdoor lighting meets the Control Requirements of § 132(c)1
- Not applicable
- Building facades, parking lots, garages, canopies, and outdoor sales areas meet the Multi-Level Lighting Requirements of § 132(c)2
- Not applicable

MANDATORY AUTOMATIC CONTROLS

CONTROL LOCATION	CONTROL IDENTIFICATION	CONTROL TYPE Auto Time Switch/ Photosensor, etc	AREA CONTROLLED	NOTE TO FIELD
Service/ Mechanic Bay	TC1	Astronomical Timer Switch	Outdoor lighting	

2005 Nonresidential Compliance Forms **January 2006**

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	93.8	68	82

REGISTERED ELECTRICAL ENGINEER
 DATE 9-16-09

IMRAN SAEED
 No. E 18781
 Exp. 6-30-11
 ELEC
 STATE OF CALIFORNIA

1-11-10
PLANS APPROVAL DATE

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

CALIFORNIA STATE FIRE MARSHAL

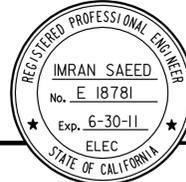
APPROVED

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

Reviewed by:
BILL ROBERTSON
 Approval date: 09/02/09

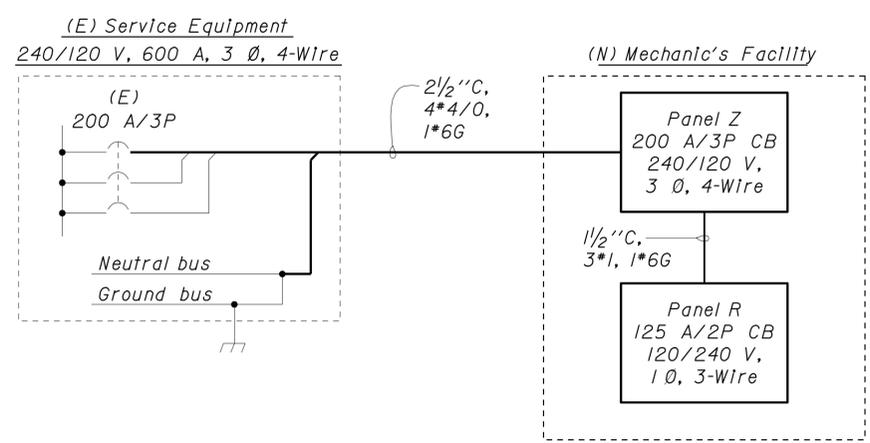
DESIGN BY <i>Imran Saeed</i> CHECKED <i>Tech Ngov</i> DETAILS BY <i>Andreasen/Monson</i> CHECKED <i>Imran Saeed</i> QUANTITIES BY <i>Imran Saeed</i> CHECKED <i>Tech Ngov</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 47M5717 POST MILE	SONORA JUNCTION MAINTENANCE STATION MECHANIC'S WORK FACILITY TITLE 24 COMPLIANCE	SHEET EE-2 OF	
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 09603 EA 315201	DISREGARD PRINTS BEARING EARLIER REVISION DATES →		REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
	0 1 2 3	5/28/09 6/7/09 6/28/09 9/3/09 9/16/09	ee_02.dgn		13-JAN-2010 13:23	

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	93.8	69	82

 REGISTERED ELECTRICAL ENGINEER DATE 9-16-09		
1-11-10 PLANS APPROVAL DATE		

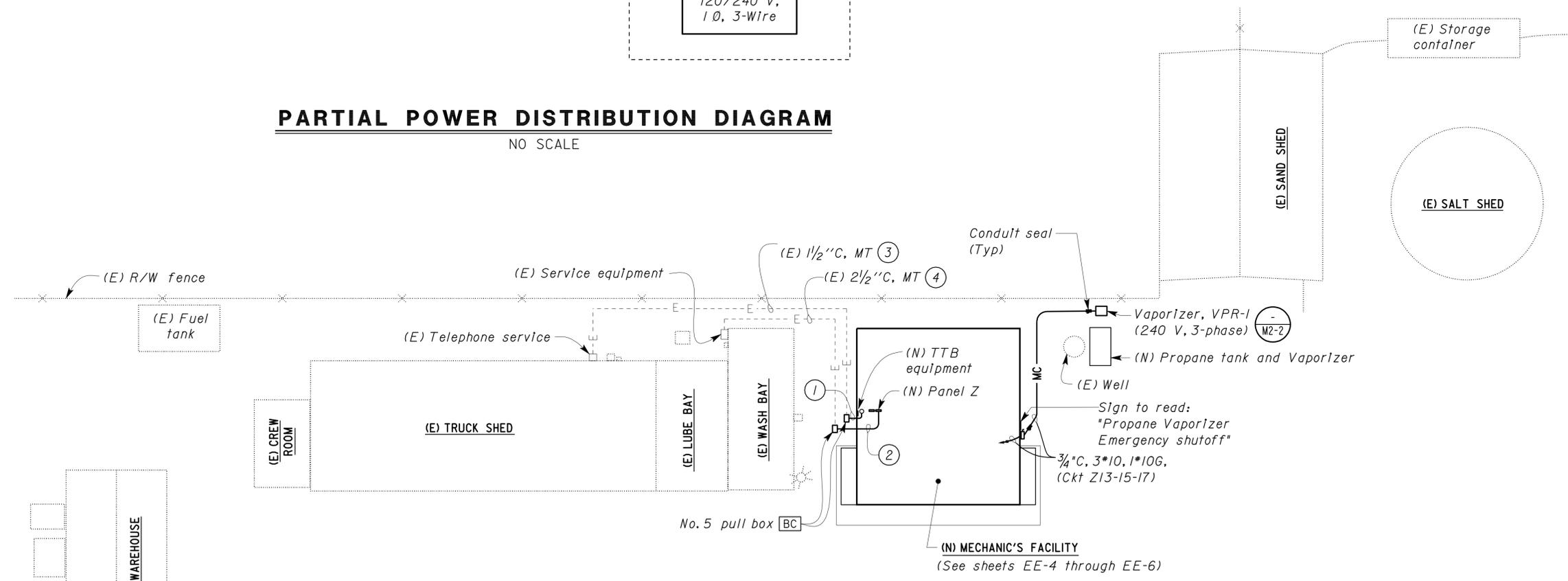
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 Reviewed by: 
BILL ROBERTSON
 Approval date: 09/02/09



PARTIAL POWER DISTRIBUTION DIAGRAM
 NO SCALE

- Notes:
- 1 1/2" MC, 6-pair telephone cable.
 - 2 1/2" MC, 4*4/0, 1*6G.
 - Install 6-pair telephone cable in existing conduit.
 - Install 4*4/0, 1*6G in existing conduit.

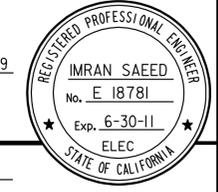


PARTIAL PLAN
 SCALE 1" = 20'-0"


THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

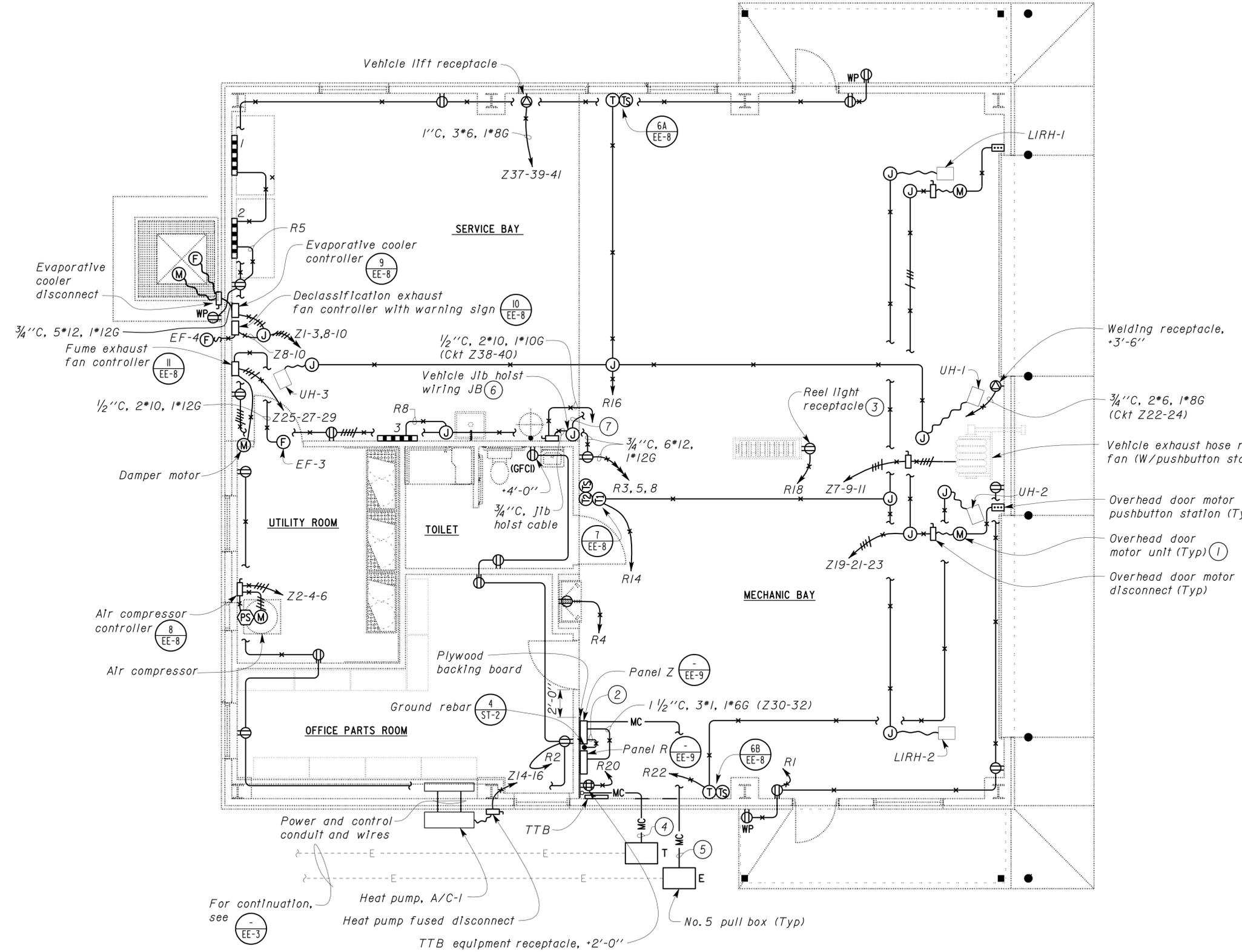
DESIGN SUPERVISOR  DESIGN ENGINEER 	DESIGN BY <i>Imran Saeed</i>	CHECKED <i>Tech Ngov</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 47M5717	SONORA JUNCTION MAINTENANCE STATION MECHANIC'S WORK FACILITY ELECTRICAL SITE PLAN AND POWER DISTRIBUTION DIAGRAM	SHEET EE-3									
	DETAILS BY <i>Kathl Andreasen</i>	CHECKED <i>Imran Saeed</i>			POST MILE											
	QUANTITIES BY <i>Imran Saeed</i>	CHECKED <i>Tech Ngov</i>														
DOES SD Imperial Rev. 1/07	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			CU 09603 EA 315201	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)									
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12/15/08	6/17/09	6/28/09	9/3/09	9/16/09	4/8/09	4/29/09	5/28/09	5/28/09								

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	93.8	70	82

 REGISTERED ELECTRICAL ENGINEER DATE 9-16-09		
1-11-10 PLANS APPROVAL DATE		

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 Reviewed by 
 BILL ROBERTSON
 Approval date: 09/02/09



- General Note:**
- A. For exact location and additional details of declassification fan, evaporative cooler, unit heaters, low Intensity radiant heater, vehicle exhaust hose reel, fume exhaust fan and other mechanical items, see Mechanical plans.
- Notes:**
- Location of overhead door operator is shown arbitrarily only. Exact location depends upon unit furnished. The Contractor shall provide any additional conduits and wires not shown but necessary for the automatic operation of the overhead door, including conduit and conductors from overhead door operator to the reversing edge limit switch.
 - 3/4" C, 1*2, to ground rebar with grounding bushing and swivel type heavy duty ground clamp.
 - Mount receptacle at location to suit light reel furnished.
 - 1 1/2" C, 6-pair telephone cable (Also shown on sheet EE-3).
 - 2 1/2" C, 4*4/0, 1*6G (Also shown on sheet EE-3).
 - Mount junction box at height to suit vehicle jib hoist unit furnished. For vehicle jib hoist details, see sheet MI-7.
 - Vehicle jib hoist cable, with slack as recommended by manufacturer.

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

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DOES SD Imperial Rev. 1/07	DESIGN BY	Imran Saeed	CHECKED	Tech Ngov	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	47M5717	SONORA JUNCTION MAINTENANCE STATION MECHANIC'S WORK FACILITY	SHEET EE-4	
	DETAILS BY	Kathl Andreasen	CHECKED	Imran Saeed			POST MILE				
	QUANTITIES BY	Imran Saeed	CHECKED	Tech Ngov					POWER PLAN		
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3	CU 09603 EA 315201	DISREGARD PRINTS BEARING EARLIER REVISION DATES			REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF

13-JAN-2010 13:23 ee_04.dgn

CALIFORNIA STATE FIRE MARSHAL APPROVED
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 Reviewed by: *Bill Robertson*
BILL ROBERTSON
 Approval date: 09/02/09

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	93.8	71	82

<i>Imran Saeed</i> REGISTERED ELECTRICAL ENGINEER	9-16-09 DATE
--	-----------------

1-11-10 PLANS APPROVAL DATE

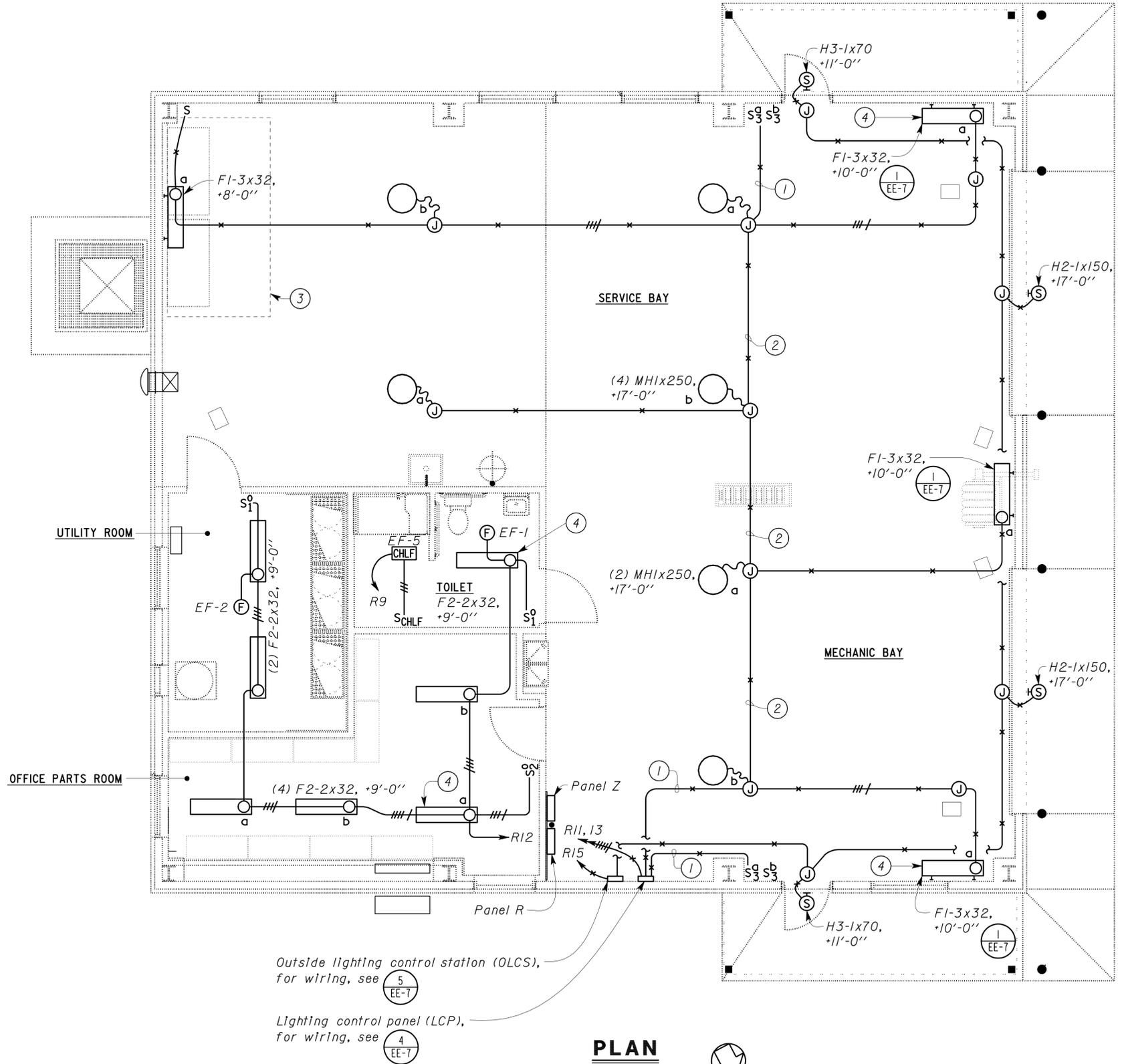
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General Notes:

- A. For exact location of all lighting fixtures, see Architectural plans.
- B. All conduits in equipment and service bays shall run at or above switch height unless shown otherwise.
- C. For wiring detail of occupancy sensors, see sheet EE-7.

Notes:

- ① 3/4" C, 7*10, 1*12G.
- ② 1" C, 9*10, 1*12G.
- ③ Special task work area.
- ④ This light fixture shall be equipped with emergency back up battery pack.



Outside lighting control station (OLCS),
for wiring, see ⑤ EE-7

Lighting control panel (LCP),
for wiring, see ④ EE-7

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

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN BY <i>Imran Saeed</i> CHECKED <i>Tech Ngov</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 47M5717	SONORA JUNCTION MAINTENANCE STATION MECHANIC'S WORK FACILITY	SHEET EE-5	
			POST MILE		LIGHTING PLAN	OF
			CU 09603 EA 315201			REVISION DATES (PRELIMINARY STAGE ONLY)

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	93.8	72	82

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BILL ROBERTSON
 Approval date: 09/02/09

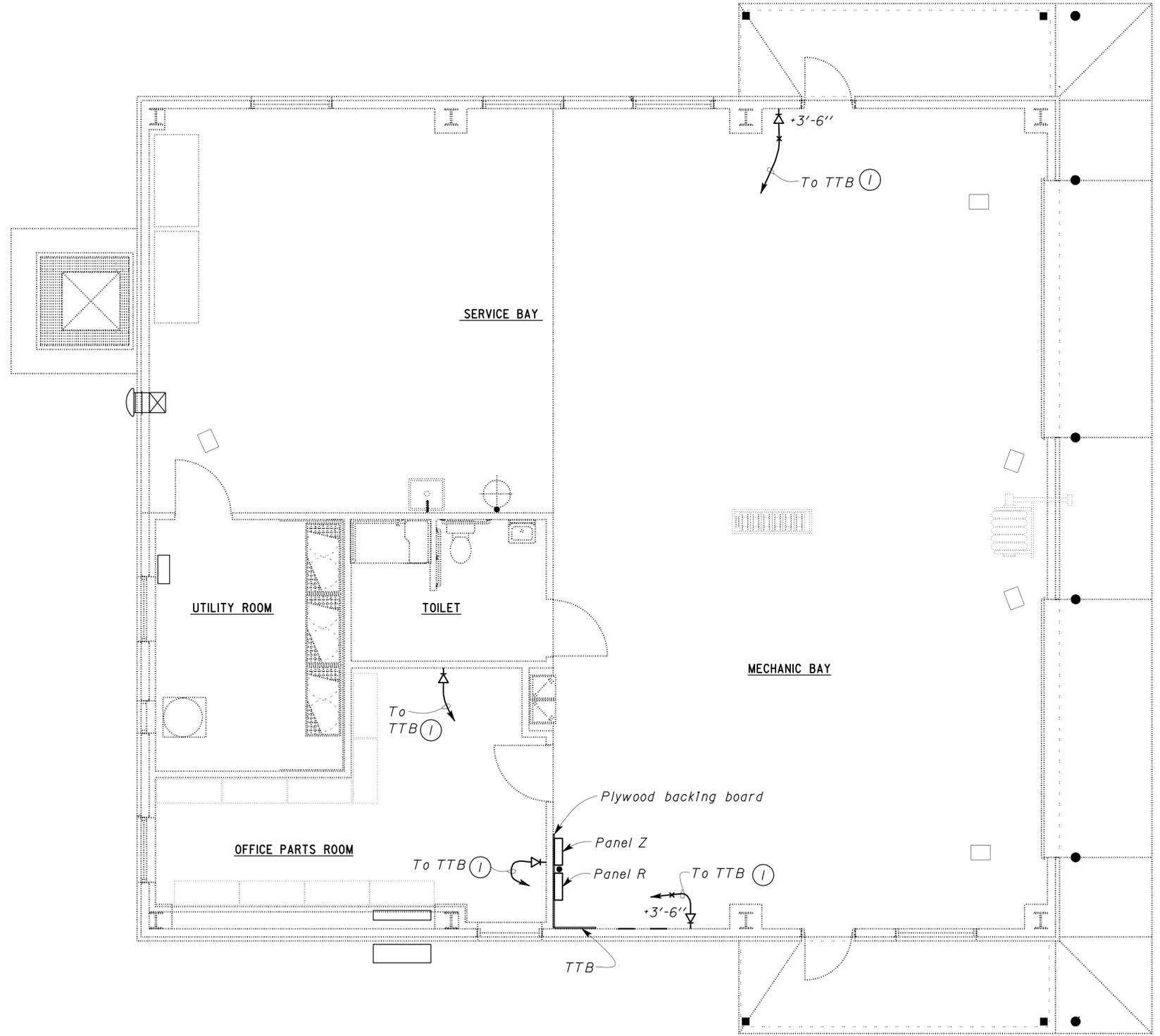
Imran Saeed
 REGISTERED ELECTRICAL ENGINEER DATE 9-16-09
 1-11-10
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
IMRAN SAEED
 No. E 18781
 Exp. 6-30-11
 ELEC
 STATE OF CALIFORNIA

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Note:

- ① 3/4" C, 2 Cat. 6 cable. Terminate conduit at 5 feet below ceiling above TTB and allow 10 feet slack for each Cat. 6 cable.

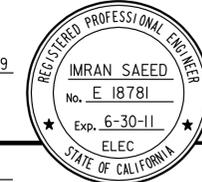


PLAN
 SCALE 1/4" = 1'-0"

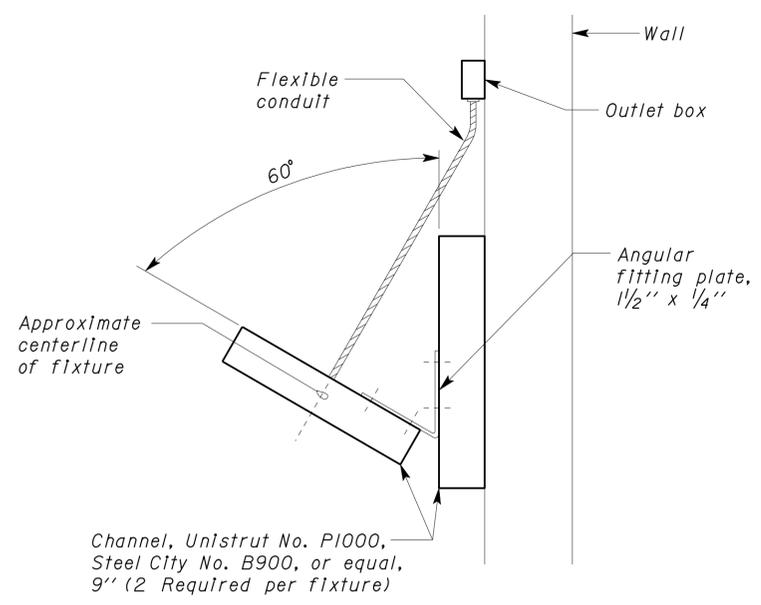
THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN BY <i>Imran Saeed</i> CHECKED <i>Tech Ngov</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 47M5717	SONORA JUNCTION MAINTENANCE STATION MECHANIC'S WORK FACILITY	SHEET EE-6
			POST MILE		
			COMMUNICATION PLAN		
DETAILS BY <i>Andreasen/Monson</i> CHECKED <i>Imran Saeed</i>	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 09603 EA 315201	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
QUANTITIES BY <i>Imran Saeed</i> CHECKED <i>Tech Ngov</i>	0 1 2 3			3/2/09 3/9/09 4/7/09 4/23/09 4/29/09 5/28/09 5/27/09 6/22/09 9/9/09 9/16/09	

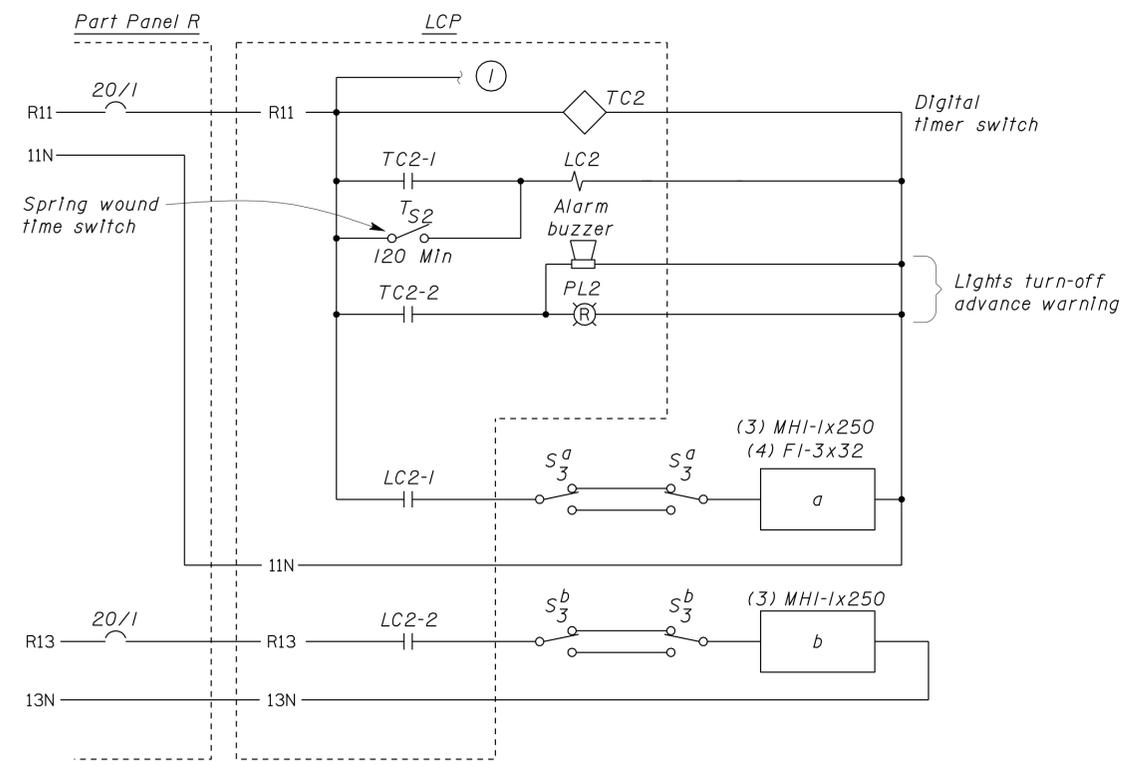
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	93.8	73	82

 REGISTERED ELECTRICAL ENGINEER DATE 9-16-09		
PLANS APPROVAL DATE 1-11-10		

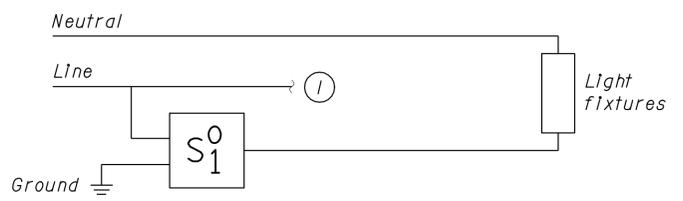
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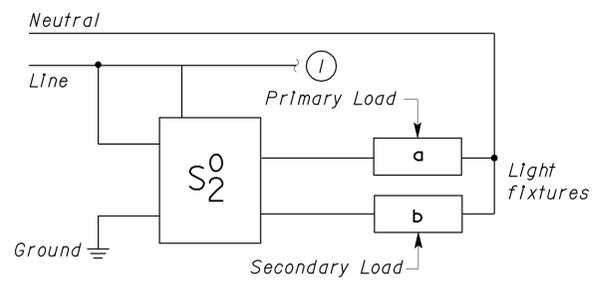
1 FIXTURE MOUNTING DETAIL
NO SCALE



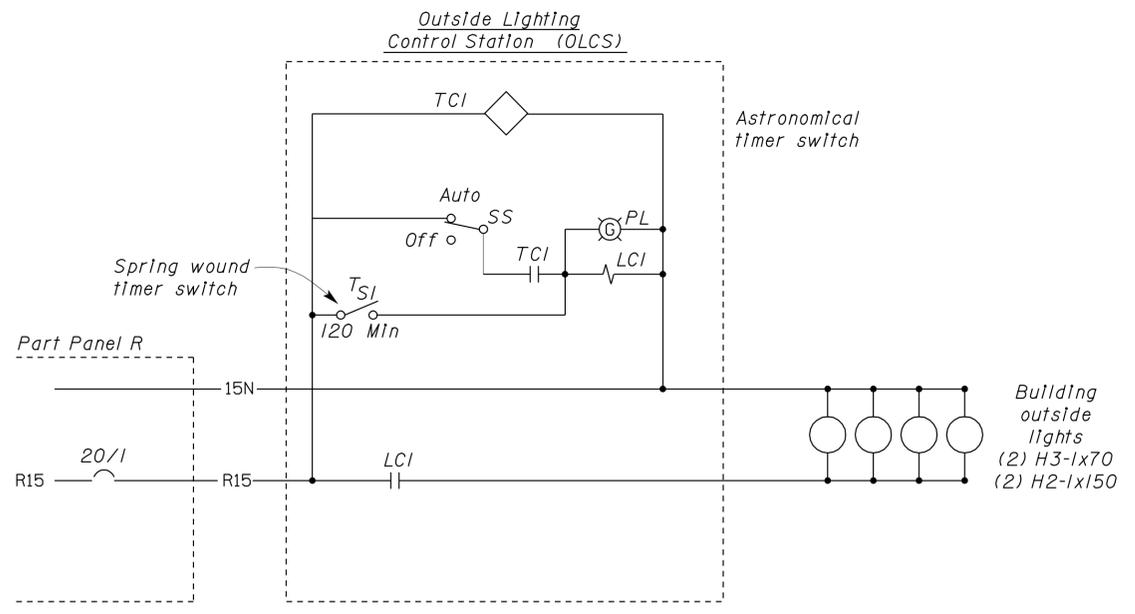
4 LIGHTING CONTROL PANEL (LCP)
NO SCALE



2 WALL SWITCH OCCUPANCY SENSOR (SINGLE-LEVEL)



3 WALL SWITCH OCCUPANCY SENSOR (BI-LEVEL)



5 SCHEMATIC DIAGRAM OUTSIDE LIGHTING CONTROL STATION (OLCS)

Note:
 ① To light fixtures with emergency battery pack where applicable, see EE-5.

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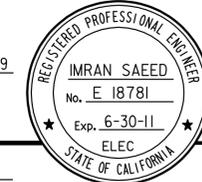
DESIGN BY <i>Imran Saeed</i> CHECKED <i>Tech Ngov</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 47M5717	SONORA JUNCTION MAINTENANCE STATION MECHANIC'S WORK FACILITY	SHEET EE-7
			POST MILE		DETAILS I
			CU 09603 EA 315201		DISREGARD PRINTS BEARING EARLIER REVISION DATES

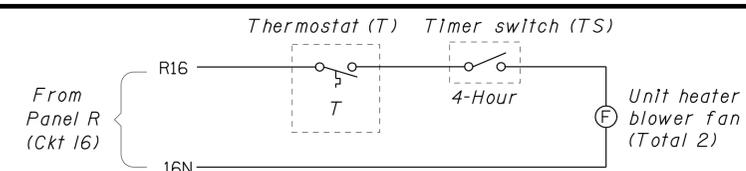
DOES SD Imperial Rev. 1/07 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

REVISION DATES (PRELIMINARY STAGE ONLY): 3/2/09, 9/9/09, 9/16/09, 4/28/09, 4/29/09, 5/20/09, 5/27/09, 6/7/09, 6/28/09

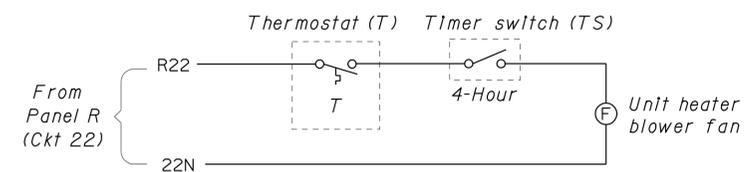
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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	93.8	74	82

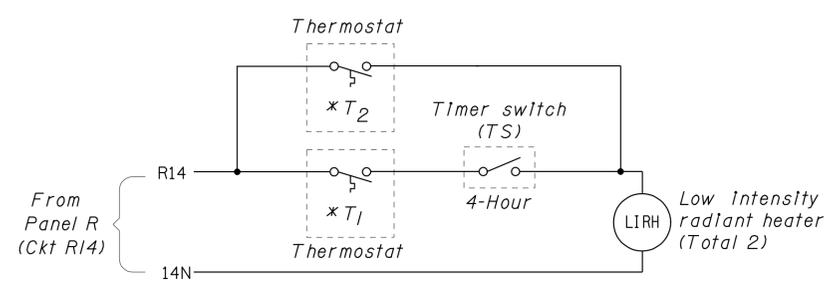
 REGISTERED ELECTRICAL ENGINEER DATE 9-16-09		
Reviewed by:  BILL ROBERTSON Approval date: 09/02/09		
1-11-10 PLANS APPROVAL DATE		
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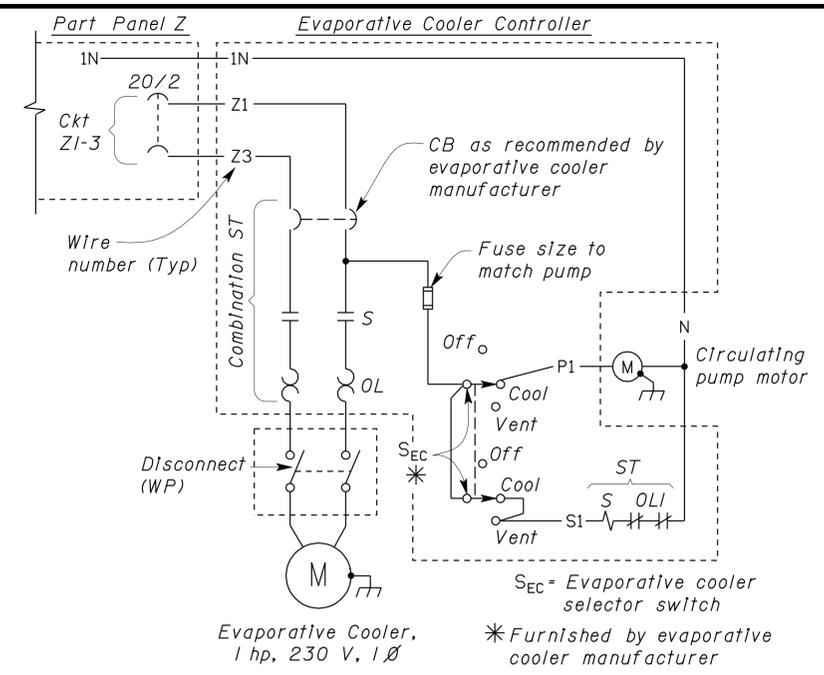
6A UNIT HEATER 1 & 3 WIRING SCHEMATIC DIAGRAM
NO SCALE



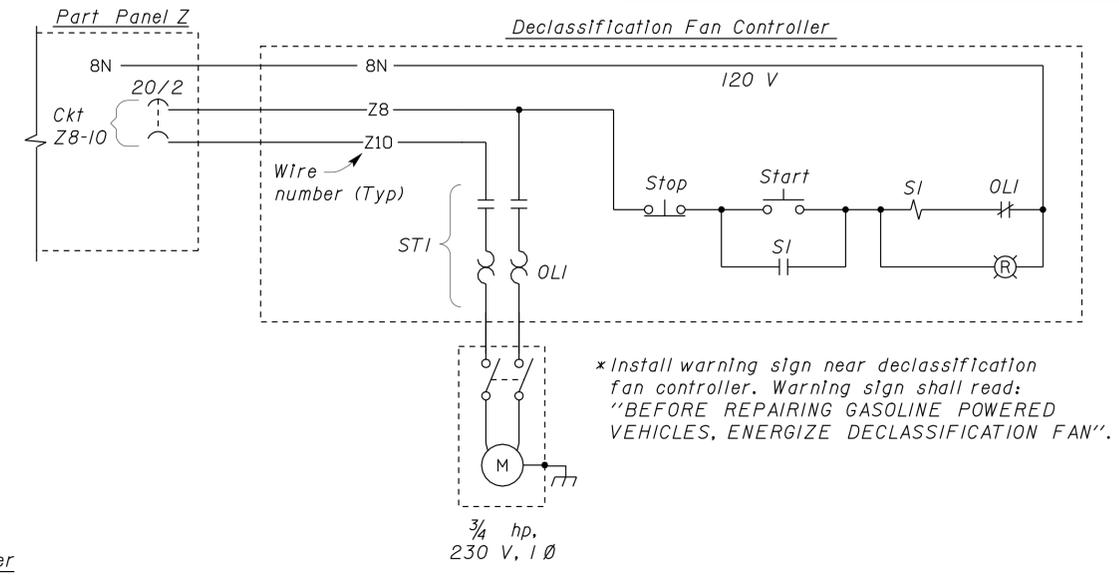
6B UNIT HEATER 2 WIRING SCHEMATIC DIAGRAM
NO SCALE



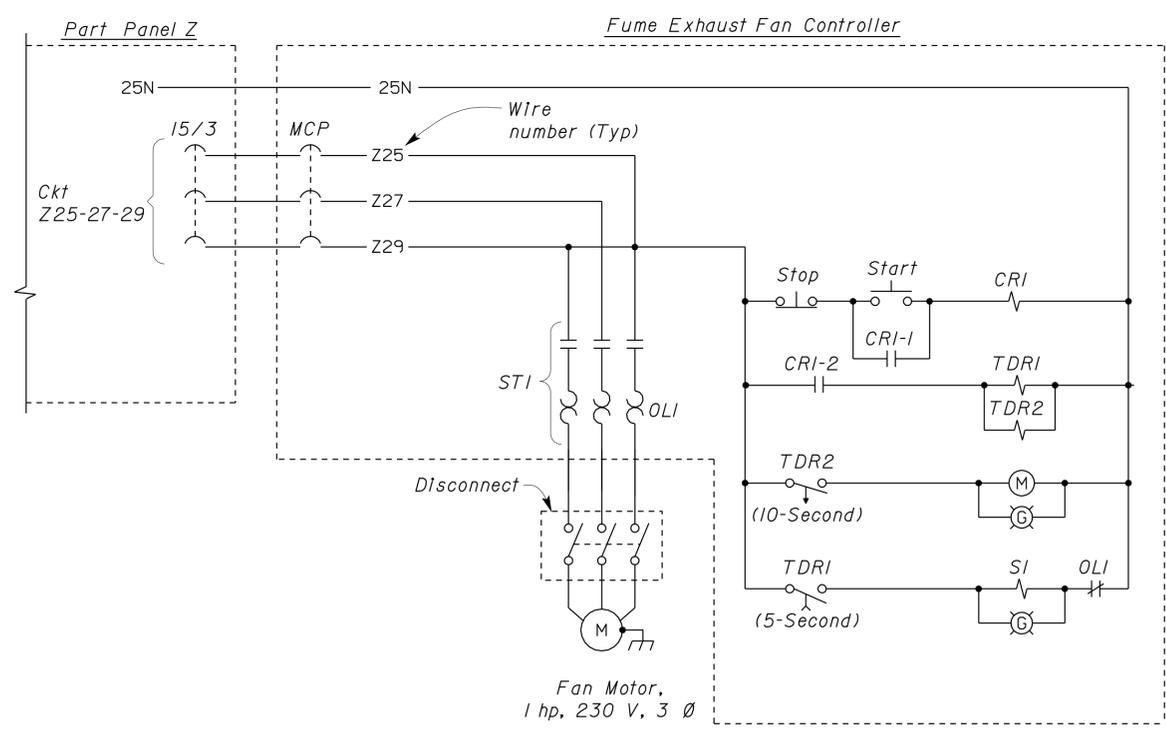
7 LOW INTENSITY RADIANT HEATER WIRING SCHEMATIC DIAGRAM
NO SCALE
* T₁ - Main thermostat for convenience
* T₂ - Low temperature thermostat for freeze protection



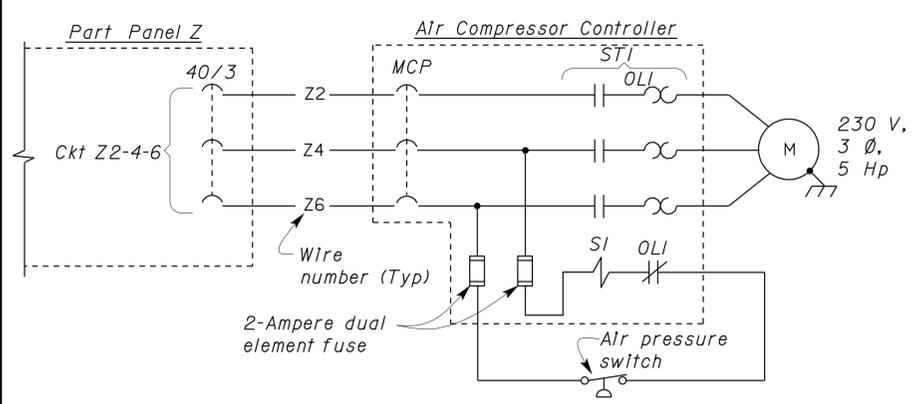
9 EVAPORATIVE COOLER CONTROLLER WIRING SCHEMATIC DIAGRAM
NO SCALE
* Furnished by evaporative cooler manufacturer



10 DECLASSIFICATION FAN CONTROLLER WIRING SCHEMATIC DIAGRAM
NO SCALE
* Install warning sign near declassification fan controller. Warning sign shall read: "BEFORE REPAIRING GASOLINE POWERED VEHICLES, ENERGIZE DECLASSIFICATION FAN".



11 FUME EXHAUST FAN CONTROLLER WIRING SCHEMATIC DIAGRAM
NO SCALE



8 AIR COMPRESSOR CONTROLLER WIRING SCHEMATIC DIAGRAM
NO SCALE

DOES SD Imperial Rev. 1/07	DESIGN	BY Imran Saeed	CHECKED Tech Ngov	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	47M5717	SONORA JUNCTION MAINTENANCE STATION MECHANIC'S WORK FACILITY	SHEET EE-8						
	DETAILS	BY Andreasen/Monson	CHECKED Imran Saeed			POST MILE									
	QUANTITIES	BY Imran Saeed	CHECKED Tech Ngov			DETAILS 2									
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3	CU 09603 EA 315201	DISREGARD PRINTS BEARING EARLIER REVISION DATES			REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF					
						3/3/09	9/16/09	4/7/09	4/28/09	4/28/09	5/28/09	5/28/09	6/28/09	9/9/09	13-JAN-2010 13:24 ee_08.dgn

MAIN: 200 A, 3P, CB
VOLTS: 240/120 V, 3 Ø, 4-WIRE

PANEL Z*

FEEDER SIZE: 4#4/0
LOCATION: MECHANIC BAY

DESCRIPTION	AMPERES			BRK	CKT	A	B	C	CKT	BRK	AMPERES			DESCRIPTION	
	A	B	C								A	B	C		
EVAPORATIVE COOLER	8.0			20/2	1	•			2		15.2			AIR COMPRESSOR	
		8.0			3		•		4	40/3		15.2			
SPARE			---	20/1	5			•	6				15.2		
VEHICLE ENGINE EXHAUST FAN - SERVICE/MECHANIC BAY	4.2			15/3	7	•			8	20/2	6.9			DECLASSIFICATION FAN - SERVICE BAY	
		4.2			9		•		10		6.9				
			4.2		11			•	12	20/1			---		
VAPORIZER (PROPANE)	10			20/3	13	•			14	15/2	2.7			HEAT PUMP - OFFICE PARTS ROOM	
		10			15		•		16		2.7				
			10		17			•	18	20/2			---		
OVERHEAD DOOR MOTOR	5			15/3	19	•			20	20/2	---			SPARE	
		5			21		•		22	60/2		30.0			WELDING RECEPTACLE
			5		23		•		24	15/2		---			
FUME EXHAUST FAN	4.2			15/3	25	•			26	15/2	---			SPARE	
		4.2			27		•		28		---				
			4.2		29		•		30	125/2			43.6		SUB PANEL R
SPARE	---			31	•			32		48.0					
SPARE		---		30/3	33		•		34	20/2		---		SPARE	
			---		35		•		36			---			
					37		•		38	30/2	12				VEHICLE JIB HOIST
VEHICLE LIFT RECEPTACLE	20.0			39		•		40		12					
		20.0		60/3	41		•		42	20/1		---		SPARE	

* ASSUMING PHASE B IS HIGH LEG

A	B	C	TOTAL CONNECTED LOAD (AMPERES PER PHASE)
136.2	118.2	132.2	

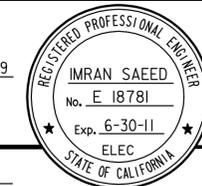
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Reviewed by: *Bill Robertson*
BILL ROBERTSON
Approval date: 09/02/09

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	93.8	75	82

REGISTERED ELECTRICAL ENGINEER DATE 9-16-09

1-11-10
PLANS APPROVAL DATE

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MAIN: 125 A, MAIN LUG ONLY
VOLTS: 120/240 V, 1Ø, 3-WIRE

PANEL R

FEEDER SIZE: 3#1
LOCATION: MECHANIC'S BAY

DESCRIPTION	AMPERES		BRK	CKT	A	C	CKT	BRK	AMPERES		DESCRIPTION
	A	C							A	C	
RECEPT - MECHANICS BAY WALL	11.0		*20/1	1	•		2	20/1	10.0		RECEPT - UTILITY RM, TOILET, OFFICE
RECEPT - SERVICE BAY WALL		12.0	*20/1	3		•	4	20/1	4.6		RECEPT - DRINKING FOUNTAIN
RECEPT - WORKBENCHES 1 AND 2 MULTI-OUTLET	10.0		*20/1	5	•		6	20/1	---		SPARE
SPARE		---	20/1	7		•	8	*20/1	5.0		RECEPT - WORKBENCH 3 MULTI-OUTLET
LIGHT - SHOWER ROOM HEAT - VENT	4.5		20/1	9	•		10	20/1	---		SPARE
LIGHTING CONTROL PANEL - CKT A		8.0	20/1	11		•	12	20/1	4.0		LIGHTS - UTILITY RM, TOILET, OFFICE
LIGHTING CONTROL PANEL - CKT B	8.0		20/1	13	•		14	20/1	2.0		LOW INTENSITY RADIANT HEATER
OUTSIDE LIGHTING CONTROL STATION		5.0	20/1	15		•	16	20/1	2.0		UNIT HEATERS 1 & 3
SPARE	---		20/1	17		•	18	20/1	1.5		RECEPT - REEL LIGHT
SPARE		---	40/1	19		•	20	20/1	3		RECEPT - TTB EQUIPMENT
SPARE	---		20/1	21		•	22	20/1	1.0		UNIT HEATER 2
SPARE		---	20/1	23		•	24	20/1	---		SPARE
SPACE	---		---	25		•	26	---	---		SPACE
SPACE		---	---	27		•	28	---	---		SPACE
SPACE	---		---	29		•	30	---	---		SPACE

*GFCI TYPE CIRCUIT BREAKER

A	C	TOTAL CONNECTED LOAD (AMPERES PER PHASE)
48.0	43.6	

DESIGN BY <i>Imran Saeed</i> CHECKED <i>Tech Ngov</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 47M5717	SONORA JUNCTION MAINTENANCE STATION MECHANIC'S WORK FACILITY PANEL SCHEDULE	SHEET EE-9	
DETAILS BY <i>Linda Monson</i> CHECKED <i>Imran Saeed</i>		POST MILE			
QUANTITIES BY <i>Imran Saeed</i> CHECKED <i>Tech Ngov</i>					
DOES SD Imperial Rev. 1/07	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	CU 09603 EA 315201	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF

13-JAN-2010 13:25 ee_09.dgn

ABBREVIATIONS

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

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
	LEACH LINES		SHEET NUMBER
			TREE
			DIRECTION OF TRAFFIC

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	93.8	76	82

Jerome R. Marcotte 9/03/09
 REGISTERED CIVIL ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER
 JEROME R. MARCOTTE
 No. C 36844
 Exp. 06/30/10
 CIVIL
 STATE OF CALIFORNIA

1-11-10
PLANS APPROVAL DATE

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PIPE FITTINGS AND VALVES

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

GENERAL WORK NOTES

The Contractor shall verify all controlling field dimensions and conditions before ordering or fabricating any materials.

The Contractor shall verify exact location of all underground facilities and utilities prior to start of construction.

No 90 degree bends allowed on drain or sewer pipe. Where 90 degree bends are shown, use two 45 degree bends

DESIGN	BY	Andy Quan	CHECKED	Don Hansen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	47M5717	SONORA JUNCTION MAINTENANCE STATION MECHANIC'S WORK FACILITY	SHEET SS-0			
	DETAILS	BY	Andy Quan	CHECKED			Don Hansen	POST MILE					
	QUANTITIES	BY	Andy Quan	CHECKED			Don Hansen						
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0	1	2	3	CU 09603 EA 315201	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF

DOES SD Imperial Rev. 9/02

12-25-08 12-25-09 06-22-09 09-03-09

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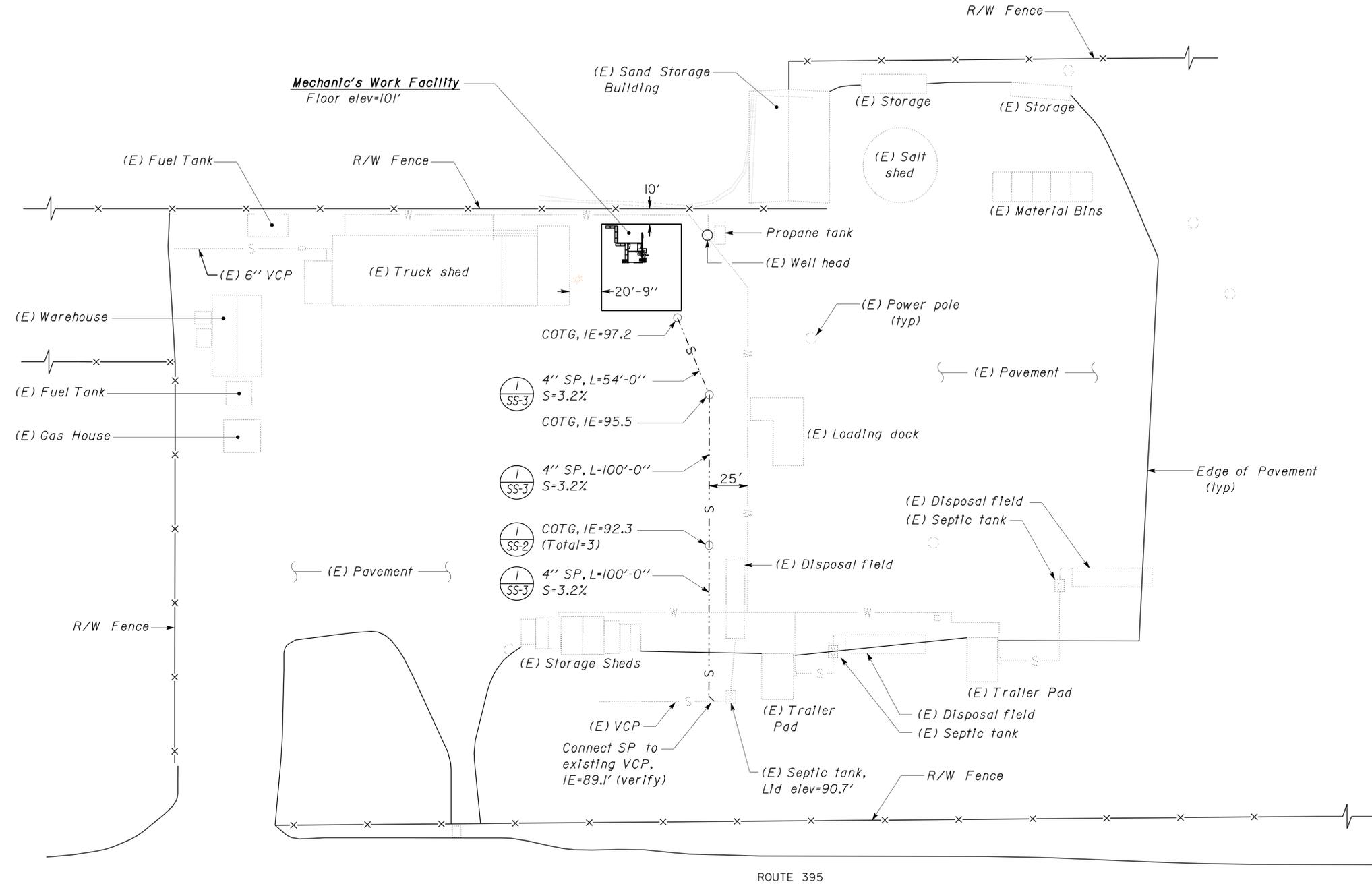
PRINTED ON: 13-JAN-2010

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	93.8	77	82

Jerome R. Marcotte 9/03/09
 REGISTERED CIVIL ENGINEER DATE

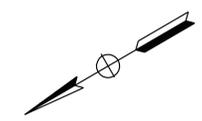
1-11-10
 PLANS APPROVAL DATE

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Note:
See Mechanical Plan for sewage pipe under structure.

SITE PLAN
Scale 1" = 40' - 0"



DESIGN SUPERVISOR <i>Paul Schreff</i> DESIGN ENGINEER <i>Jerome R. Marcotte</i>	DESIGN	BY Andy Quan	CHECKED Don Hansen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	47M5717	SONORA JUNCTION MAINTENANCE STATION MECHANIC'S WORK FACILITY	SHEET SS-1	
	DETAILS	BY Andy Quan	CHECKED Don Hansen			POST MILE				
QUANTITIES	BY Andy Quan	CHECKED Don Hansen								
DOES SD Imperial Rev. 9/02	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3	CU 09603 EA 315201	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY) 12-25-08 03-09-09 06-22-09 09-03-09	SHEET OF

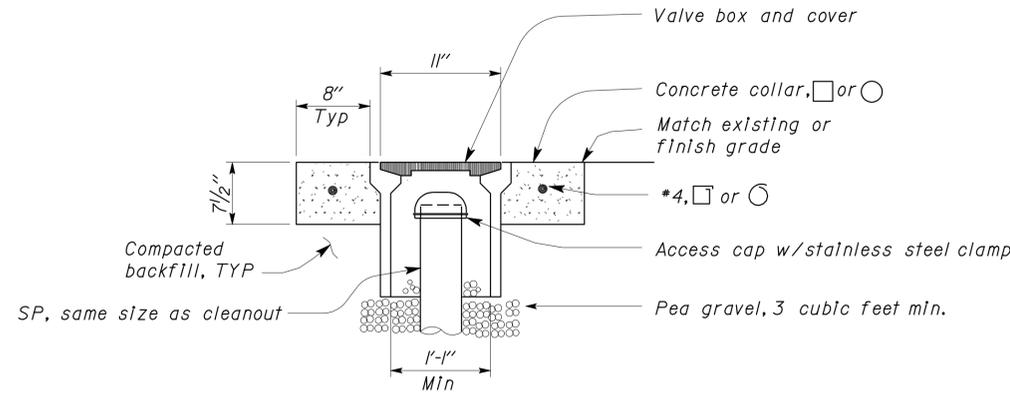
PRINTED ON: 13-JAN-2010 13:25

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	93.8	78	82

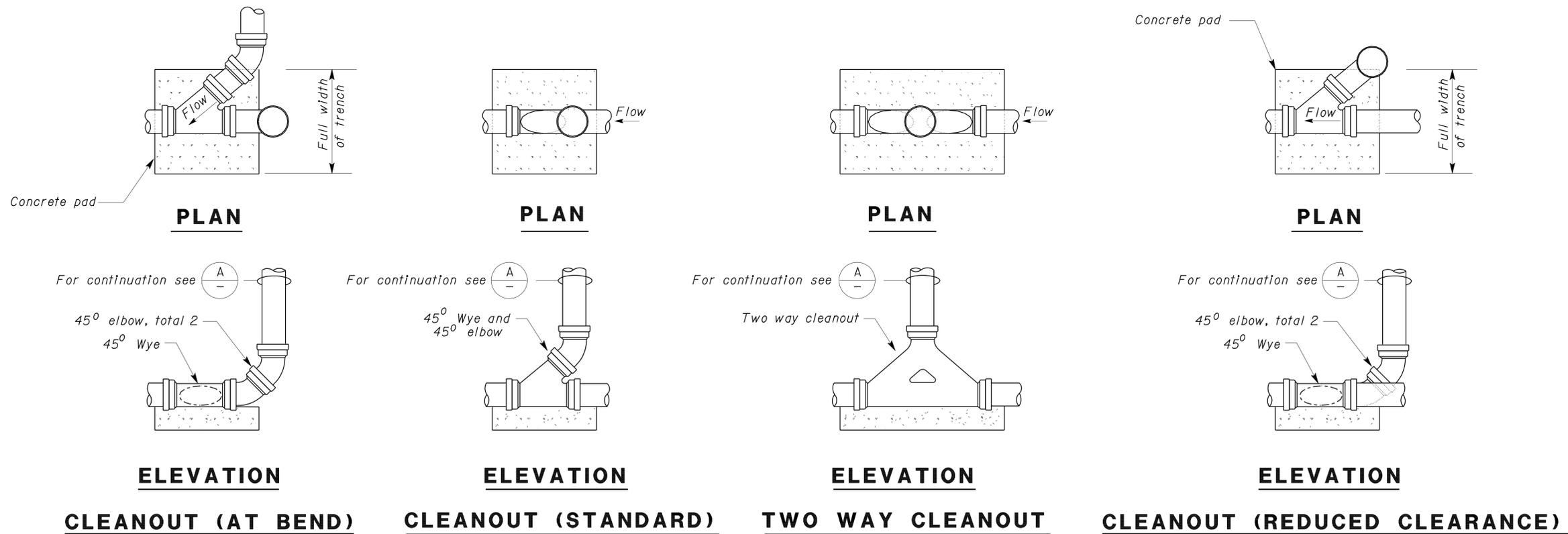
Jerome R. Marcotte 9/03/09
 REGISTERED CIVIL ENGINEER DATE

1-11-10
 PLANS APPROVAL DATE

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A COTG ACCESS BOX
NO SCALE



1 CLEANOUT TO GRADE
NO SCALE

Note:
Concrete pad shown typical for all cleanouts.

DESIGN	BY	Andy Quan	CHECKED	Don Hansen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	47M5717	SONORA JUNCTION MAINTENANCE STATION MECHANIC'S WORK FACILITY	SHEET	SS-2		
	DETAILS	BY	Andy Quan	CHECKED			Don Hansen	POST MILE			DETAILS - I	OF	
	QUANTITIES	BY	Andy Quan	CHECKED			Don Hansen						
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0 1 2 3	CU 09603 EA 315201	REVISION DATES (PRELIMINARY STAGE ONLY)			SHEET	OF		
DOES SD Imperial Rev. 9/02							DISREGARD PRINTS BEARING EARLIER REVISION DATES			12-25-08	03-09-09		

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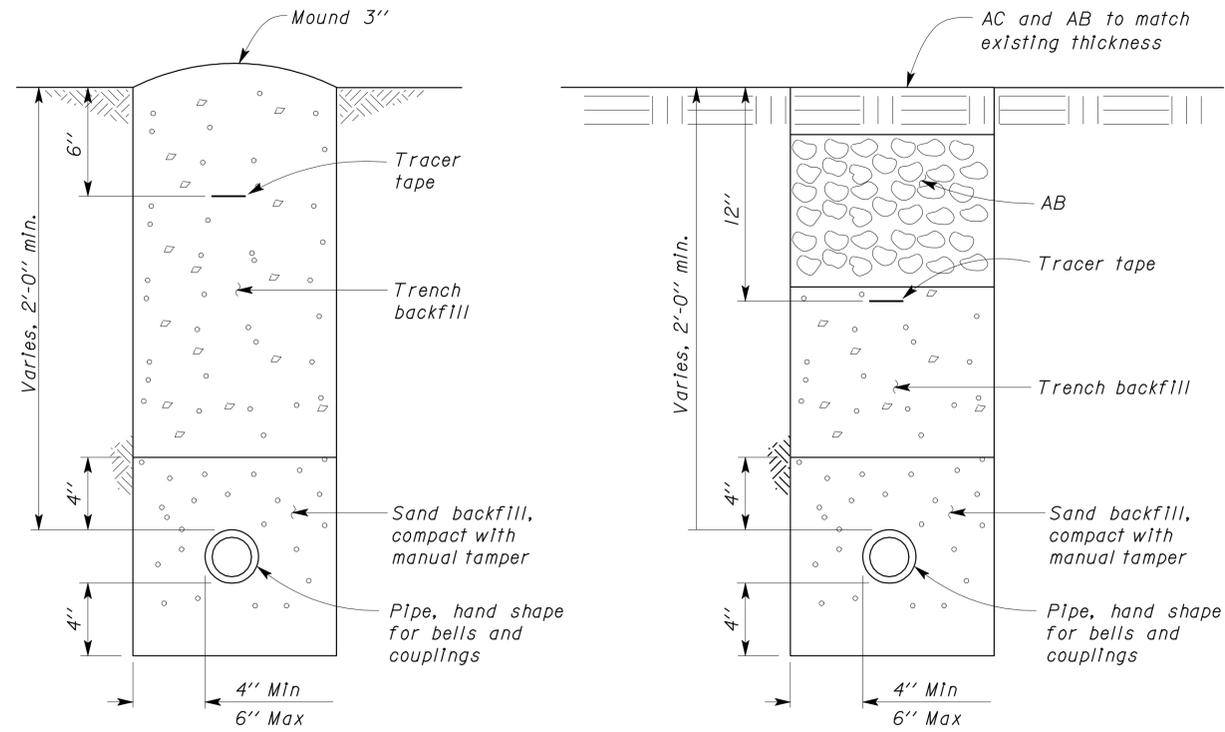
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	93.8	79	82

Jerome R. Marcotte 9/03/09
 REGISTERED CIVIL ENGINEER DATE



1-11-10
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1 SEWAGE PIPE
NO SCALE

DESIGN	BY Andy Quan	CHECKED Don Hansen
DETAILS	BY Andy Quan	CHECKED Don Hansen
QUANTITIES	BY Andy Quan	CHECKED Don Hansen

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO.	47M5717
POST MILE	

SONORA JUNCTION MAINTENANCE STATION MECHANIC'S WORK FACILITY
DETAILS - 2

SHEET **SS-3** OF

ABBREVIATIONS

AB	AGGREGATE BASE	lbs	POUNDS
AC	ASPHALT CONCRETE	L/S	LANDSCAPE
ACP	ASBESTOS CONCRETE PIPE	Max	MAXIMUM
AVC	AIR VOLUME CONTROLLER	MBV	MOTORIZED BALL VALVE
B	BUNG	MH	MANHOLE
Bldg	BUILDING	Min	MINIMUM
C	CONDUIT	NHT	NATIONAL HOSE THREAD
C-C	CENTER TO CENTER	O.C.	ON CENTER
CI	CAST-IRON	OD	OUTSIDE DIAMETER
CL	CHAIN LINK	OG	ORIGINAL GROUND
CMP	CORRUGATED METAL PIPE	P/L	PROPERTY LINE
Conc	CONCRETE	PCC	PORTLAND CEMENT CONCRETE
COTF	CLEANOUT TO FLOOR	PG	PRESSURE GAUGE
COTG	CLEANOUT TO GRADE	PRV	PRESSURE REGULATING VALVE
CSD	COMMUNITY SERVICES DISTRICT	PS	PRESSURE SWITCH
DBH	DIAMETER AT BREAST HEIGHT	psi	POUNDS PER SQUARE INCH
DI	DRAINAGE INLET	PVC	POLYVINYL CHLORIDE
Di _a	DIAMETER	R	RADIUS
DP	DRAIN PIPE	RCP	REINFORCED CONCRETE PIPE
E	ELECTRICAL	RCVM	REMOTE CONTROL VALVE MASTER
(E)	EXISTING	RPM	REVOLUTIONS PER MINUTE
EG	EXISTING GRADE	RT	RIGHT
EL	ELEVATION	R/W	RIGHT-OF-WAY
EP	EDGE OF PAVEMENT	S	SLOPE
FF	FINISH FLOOR	Sch	SCHEDULE
FG	FINISH GRADE	SD	STORM DRAIN
FL	FLOW LINE	SP	SEWAGE PIPE
FOC	FACE OF CONCRETE	sq	SQUARE
FS	FLOAT SWITCH	Sta	STATION
ft	FEET	TBM	TEMPORARY BENCHMARK
Galv	GALVANIZED	TOC	TOP OF CURB, CONCRETE
gpm	GALLONS PER MINUTE	To _t	TOTAL
GSP	GALVANIZED STEEL PIPE	Typ	TYPICAL
HF	HOSE FAUCET	V	VOLT
H	HEIGHT	VCP	VITRIFIED CLAY PIPE
HDPE	HIGH DENSITY POLYETHYLENE	W	WATER
HP	HORSEPOWER	W/O	WITHOUT
HZ	HERTZ	WP	WEATHERPROOF
ID	INSIDE DIAMETER	WSP	WELDED STEEL PIPE
IE	INVERT ELEVATION		
in	INCHES		
JB	JUNCTION BOX		

LEGEND

----- S -----	SANITARY SEWER		DETAIL SHEET NUMBER
----- D -----	DRAIN	99.00	NEW GRADE IN METERS
----- RD -----	RETURN DRAIN	X (100.00)	EXISTING SPOT GRADE IN METERS
----- V -----	VENT		ABANDON (E)
----- W -----	WATER		CENTERLINE
----- L -----	LEACH LINES		DIAMETER
			SECTION / ELEVATION LETTER
			SHEET NUMBER
			TREE

GENERAL WORK NOTES

The Contractor shall verify all controlling field dimensions and conditions before ordering or fabricating any materials.

The Contractor shall verify exact location of all underground facilities and utilities prior to start of construction.

No 90° bends allowed on drain or sewer pipe.

Type of Fitting	90° Bend	45° Bend	11 1/4° or 22 1/2° Bend	Tee or Dead end	Cross w/plug	Tee w/plug
Typical Installation						

THRUST BLOCK BEARING AREA (SQ. FT.)

Type of Fitting	90° Bend	45° Bend	11 1/4° or 22 1/2° Bend	Tee or Dead end	Tee w/ Plug	Cross w/ plug
4"	2	1	1	2	2	2
6"	4	4	2	4	4	4
8"	7	4	2	5	7	7
10"	12	6	3	8	12	12
12"	16	10	5	12	16	16
14"	20	12	6	14	20	20
16"	27	15	8	18	27	27
18"	45	25	13	32	45	45
24"	65	35	18	46	65	65

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	93.8	80	82

1-11-10
 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:
 BILL ROBERTSON
 Approval date: 09/02/09

DESIGN	BY Andy Quan	CHECKED Don Hansen
DETAILS	BY Andy Quan	CHECKED Don Hansen
QUANTITIES	BY Andy Quan	CHECKED Don Hansen

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO. 47M5717
 POST MILE

SONORA JUNCTION MAINTENANCE STATION MECHANIC'S WORK FACILITY
 NOTES, LEGENDS & ABBREVIATIONS

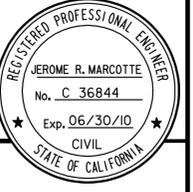
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FPS-0

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	93.8	81	82

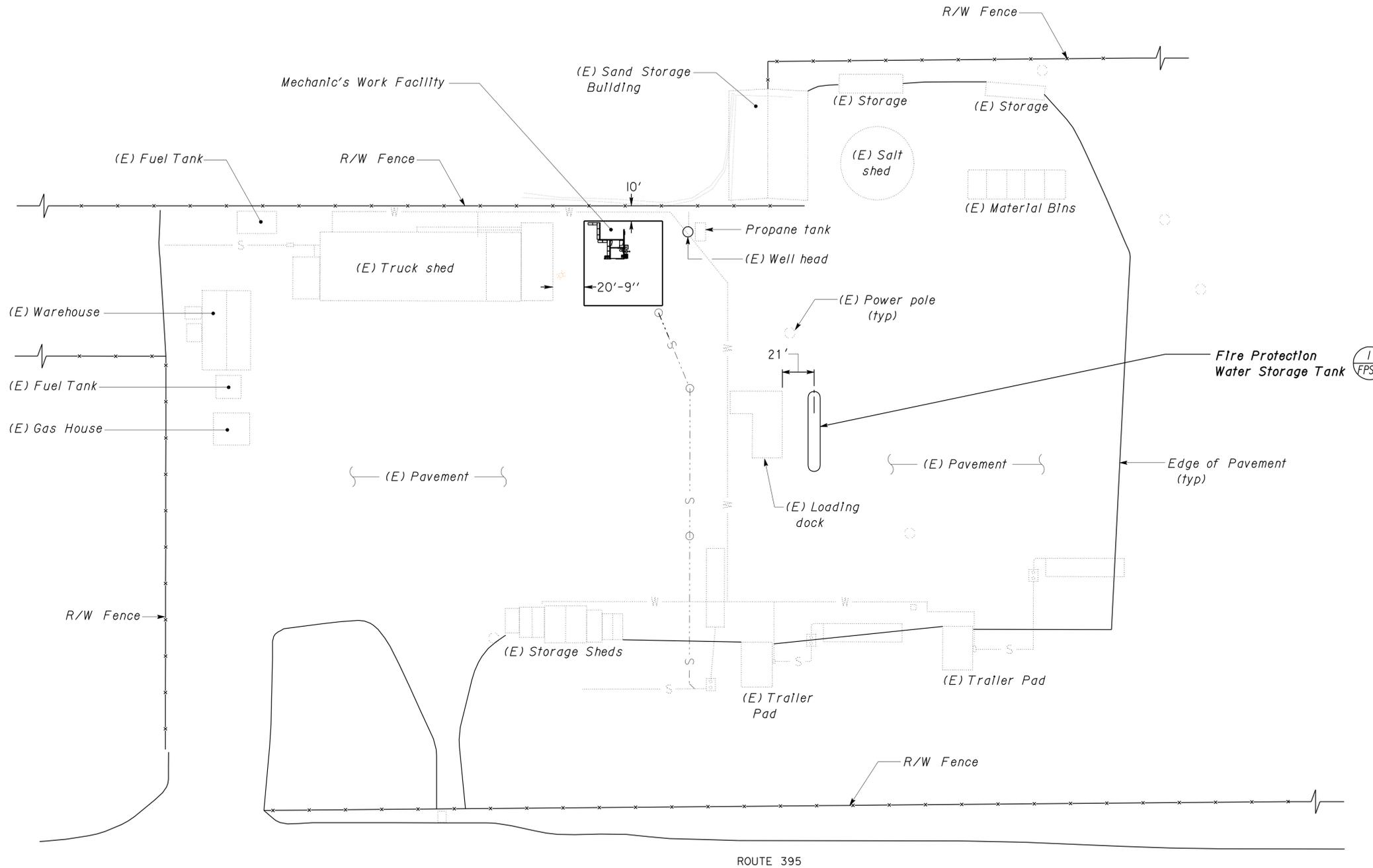
Jerome R. Yau 9/03/09
 REGISTERED CIVIL ENGINEER DATE

1-11-10
 PLANS APPROVAL DATE

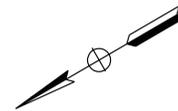
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 Reviewed by: *Bill Robertson*
 BILL ROBERTSON
 Approval date: 09/02/09



SITE PLAN
 Scale 1" = 40' - 0"



Paul Schreff
 DESIGN SUPERVISOR
Jerome R. Yau
 DESIGN ENGINEER

DESIGN	BY Andy Quan	CHECKED Don Hansen
DETAILS	BY Andy Quan	CHECKED Don Hansen
QUANTITIES	BY Andy Quan	CHECKED Don Hansen

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

BRIDGE NO.	47M5717
POST MILE	

SONORA JUNCTION MAINTENANCE STATION MECHANIC'S WORK FACILITY
 SITE PLAN

SHEET FPS-1 OF

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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 Reviewed by: *Bill Robertson*
 BILL ROBERTSON
 Approval date: 09/02/09

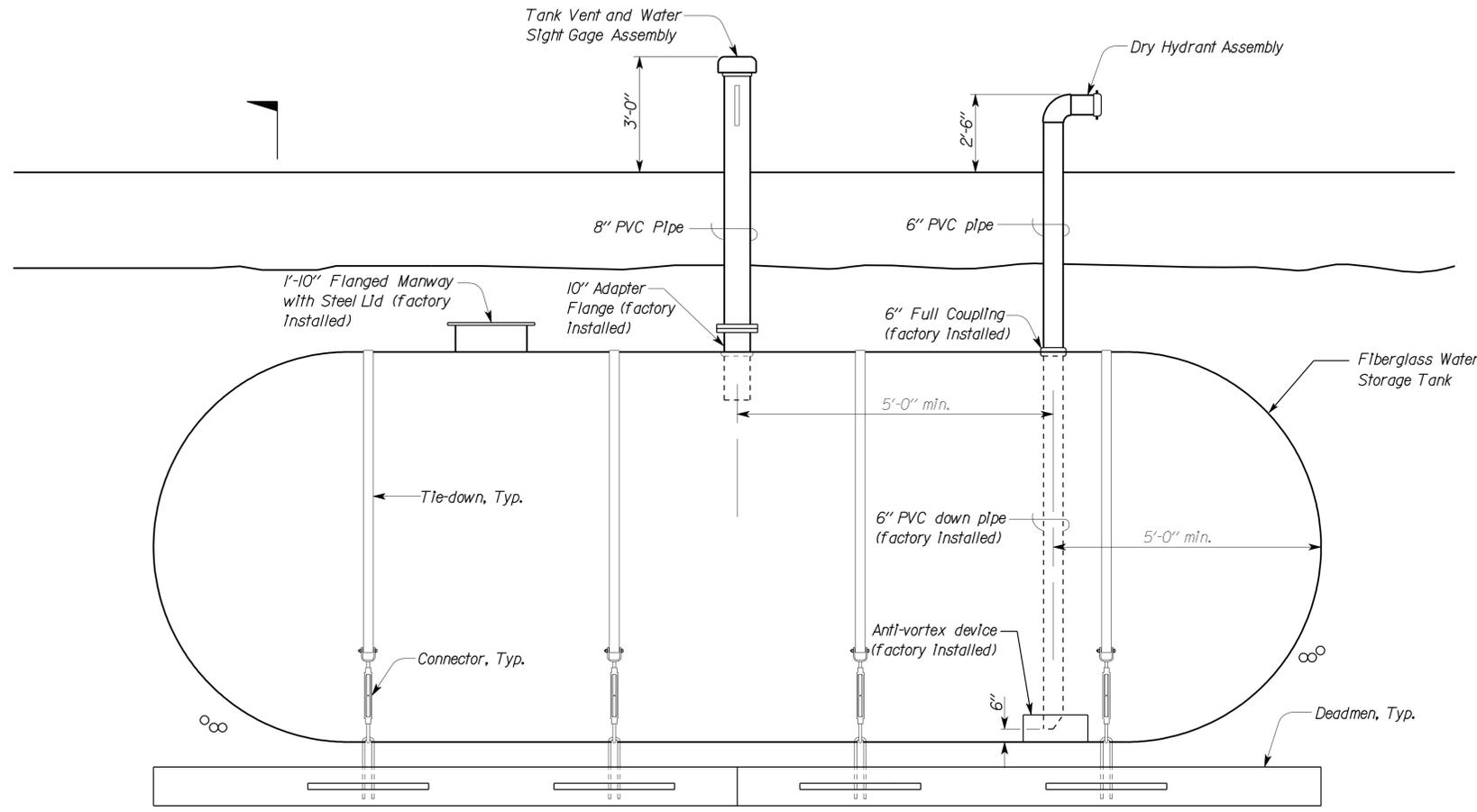
REGISTERED CIVIL ENGINEER
 DATE 9/03/09
 No. C 36844
 Exp. 06/30/10
 CIVIL
 STATE OF CALIFORNIA

1-11-10
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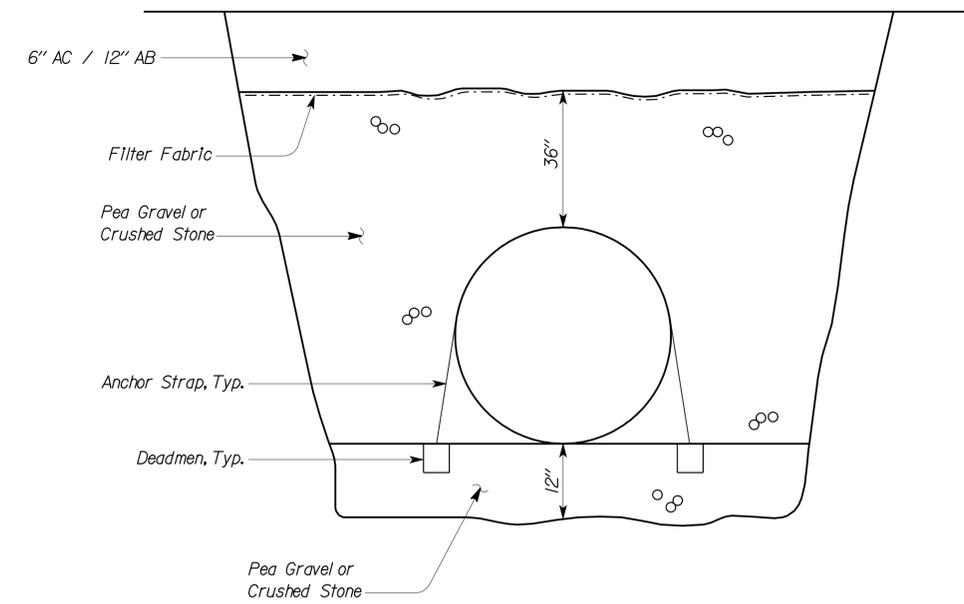
Notes:

1. Use pipe sleeve when pipe passes through asphalt.
2. Tie-downs, connectors, and deadmen to be tank manufacturer's standard anchoring design.
3. Fire Protection Water Storage Tank shall comply with NFPA 22, 2003 Edition.



Tank Size Required For Project

TANK DIAMETER	NOMINAL CAPACITY (GALLONS)	NOMINAL LENGTH	NOMINAL WEIGHT (Lbs)
6'	6,000	31'	2,250
8'	8,000	26'	2,475
8'	10,000	31'	2,950
8'	12,000	37'	3,800
8'	15,000	45'	4,500
10'	20,000	38'	5,900



1 FIRE PROTECTION WATER STORAGE TANK-15,000 GALLONS
 NO SCALE

A SECTION
 NO SCALE

DESIGN	BY Andy Quan	CHECKED Don Hansen
DETAILS	BY Andy Quan	CHECKED Don Hansen
QUANTITIES	BY Andy Quan	CHECKED Don Hansen

STATE OF CALIFORNIA
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BRIDGE NO. 47M5717
 POST MILE

SONORA JUNCTION MAINTENANCE STATION MECHANIC'S WORK FACILITY
 DETAILS

SHEET FPS-2 OF