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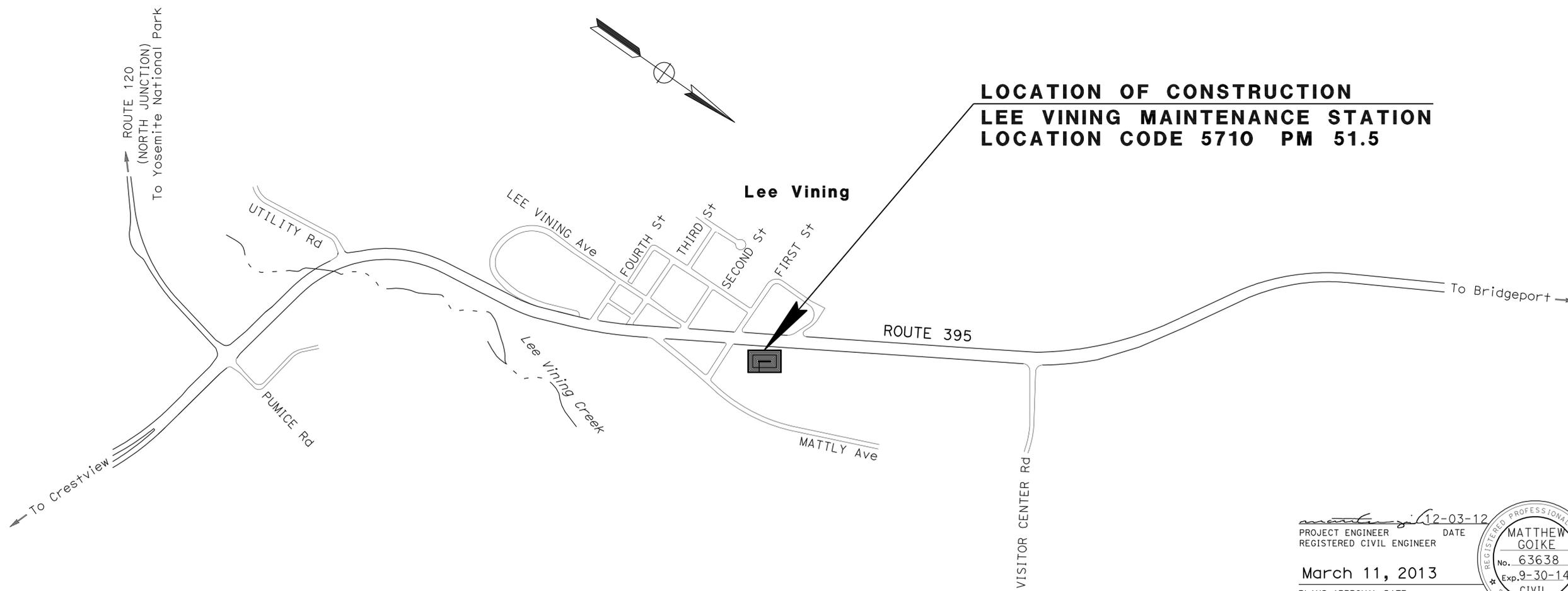
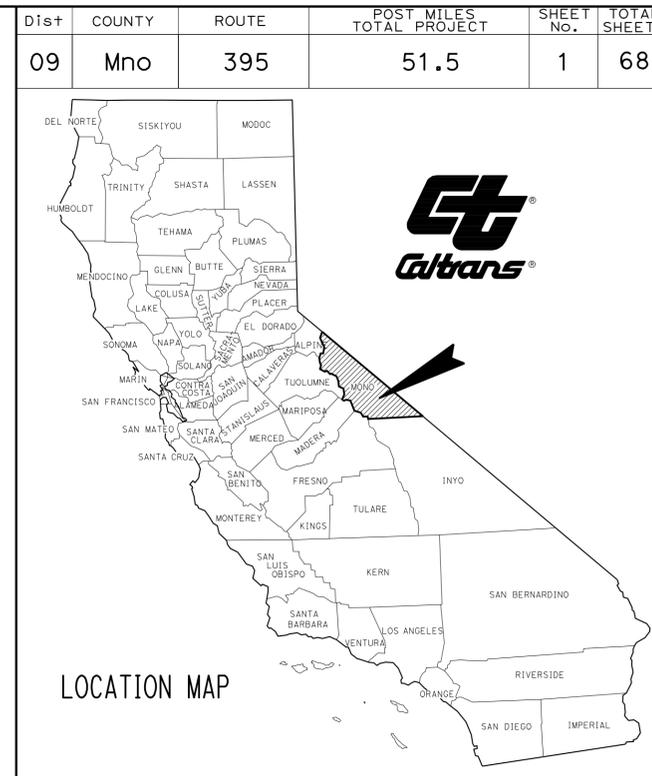
BUILDING PLANS

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

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**PROJECT PLANS FOR BUILDING CONSTRUCTION  
ADJACENT TO  
STATE HIGHWAY**  
**IN MONO COUNTY AT LEE VINING  
AT THE LEE VINING MAINTENANCE STATION**

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010



PROJECT MANAGER  
**BRIAN MCELWAIN**

DESIGN ENGINEER  
**JOHN FOX**

PROJECT ENGINEER DATE 12-03-12  
REGISTERED CIVIL ENGINEER  
**MATTHEW GOIKE**  
No. 63638  
Exp. 9-30-14  
CIVIL  
STATE OF CALIFORNIA

PLANS APPROVAL DATE  
March 11, 2013

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

CONTRACT No.	<b>09-354404</b>
PROJECT ID	<b>0912000029</b>

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

NO SCALE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Mno	395	51.5	2	68

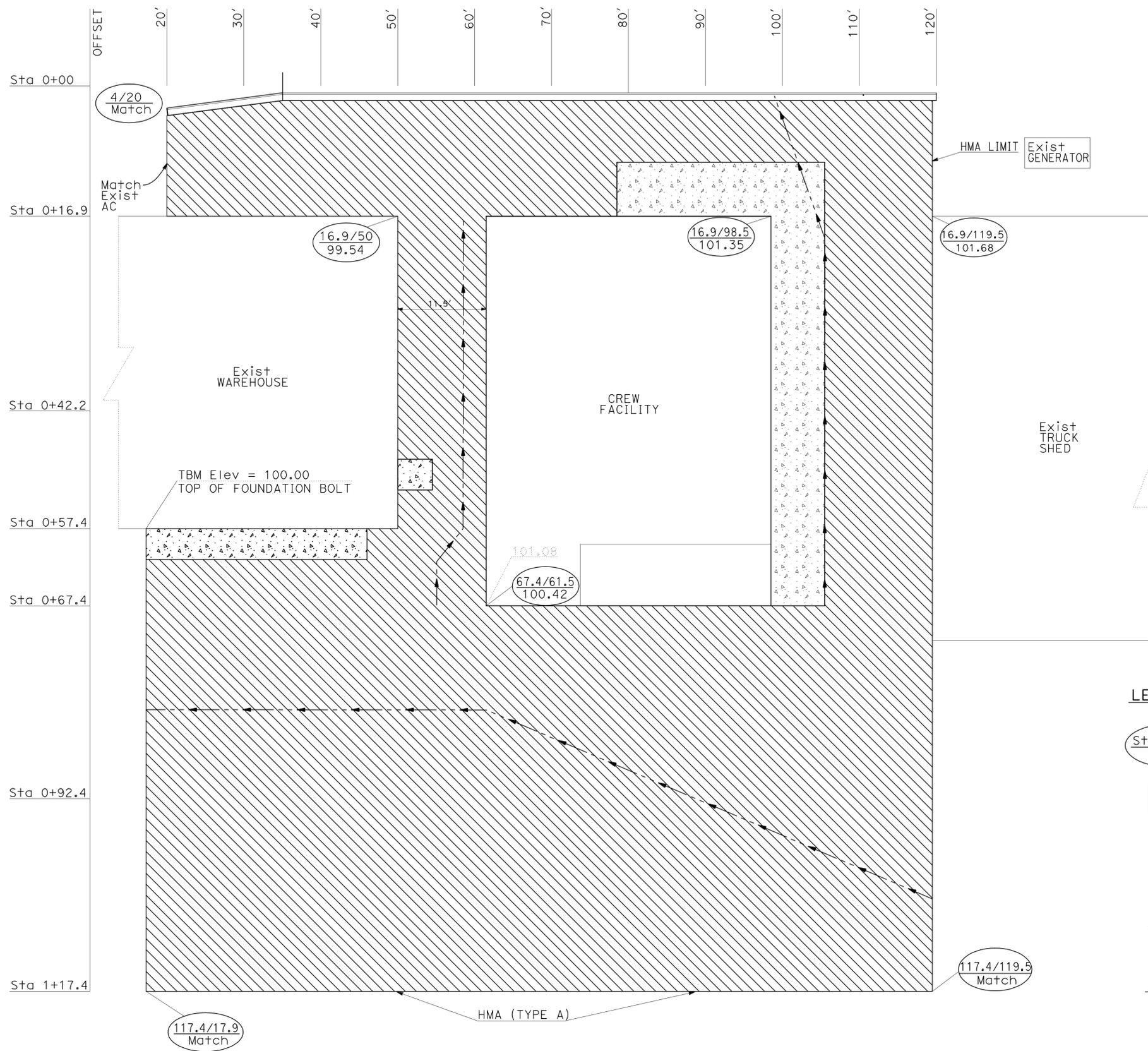
<i>Matthew J. Goike</i>	12-03-12
REGISTERED CIVIL ENGINEER	DATE
3-11-13	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER
MATTHEW GOIKE
No. 63638
Exp. 9-30-14
CIVIL

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NOTE:  
1. ELEVATIONS ARE TO THE TOP OF HMA (TYPE A) OR CONCRETE GUTTER FL.



- LEGEND:**
- Sta/OFFSET  
Elev STATION/OFFSET AND ELEVATION
  - 0.33' HMA (TYPE A)
  - REMOVE EXISTING AC
  - CONCRETE
  - EXISTING GROUND ELEVATION
  - HMA OR GUTTER INVERT ELEVATION
  - DRAINAGE FLOW LINE

**CONSTRUCTION DETAILS**  
NO SCALE  
**C-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	<b>Caltrans</b> MAINTENANCE ENGINEERING	FUNCTIONAL SUPERVISOR	JOHN FOX	CALCULATED/DESIGNED BY	CHECKED BY
				MATTHEW GOIKE	ALLEN TOBEY
				REVISOR BY	DATE REVISED
				MA	10-11-11

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Mno	395	51.5	3	68

<i>Matthew J. Goike</i>	12-03-12
REGISTERED CIVIL ENGINEER	DATE
3-11-13	
PLANS APPROVAL DATE	

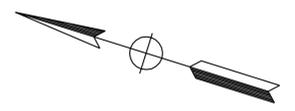
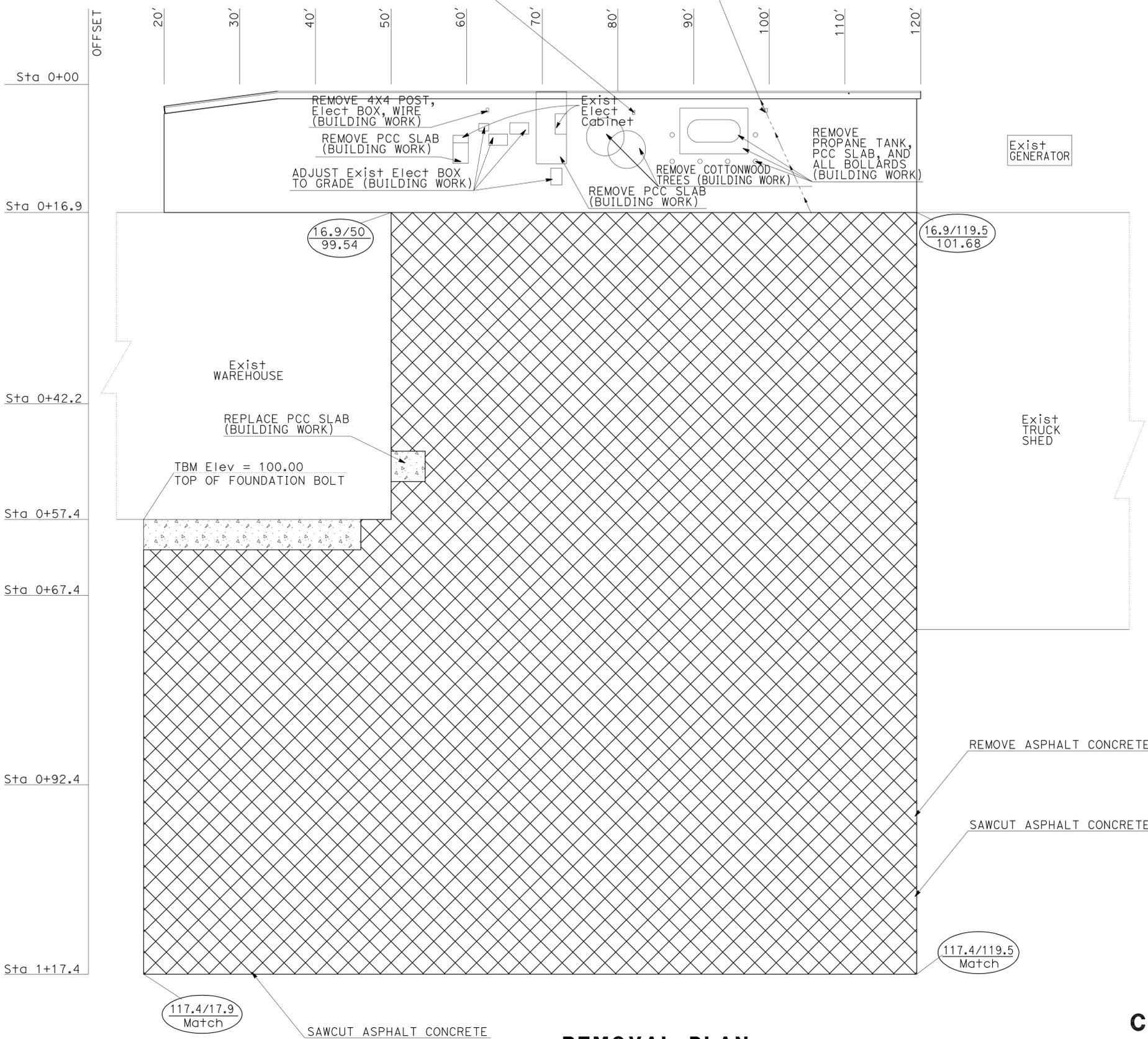
  

REGISTERED PROFESSIONAL ENGINEER <b>MATTHEW GOIKE</b> No. 63638 Exp. 9-30-14 CIVIL STATE OF CALIFORNIA
---

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR
<b>Caltrans</b> MAINTENANCE ENGINEERING	JOHN FOX	CHECKED BY	DATE
		ALLEN TOBEY	
		MATTHEW GOIKE	
			REVISED BY
			DATE

**NOTE:**  
 1. ELEVATIONS ARE TO THE TOP OF HMA (TYPE A) OR CONCRETE GUTTER FL.



**REMOVAL PLAN**

**CONSTRUCTION DETAILS**  
 NO SCALE  
**C-2**

LAST REVISION    DATE PLOTTED => 13-MAR-2013    TIME PLOTTED => 06:58

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Mno	395	51.5	4	68

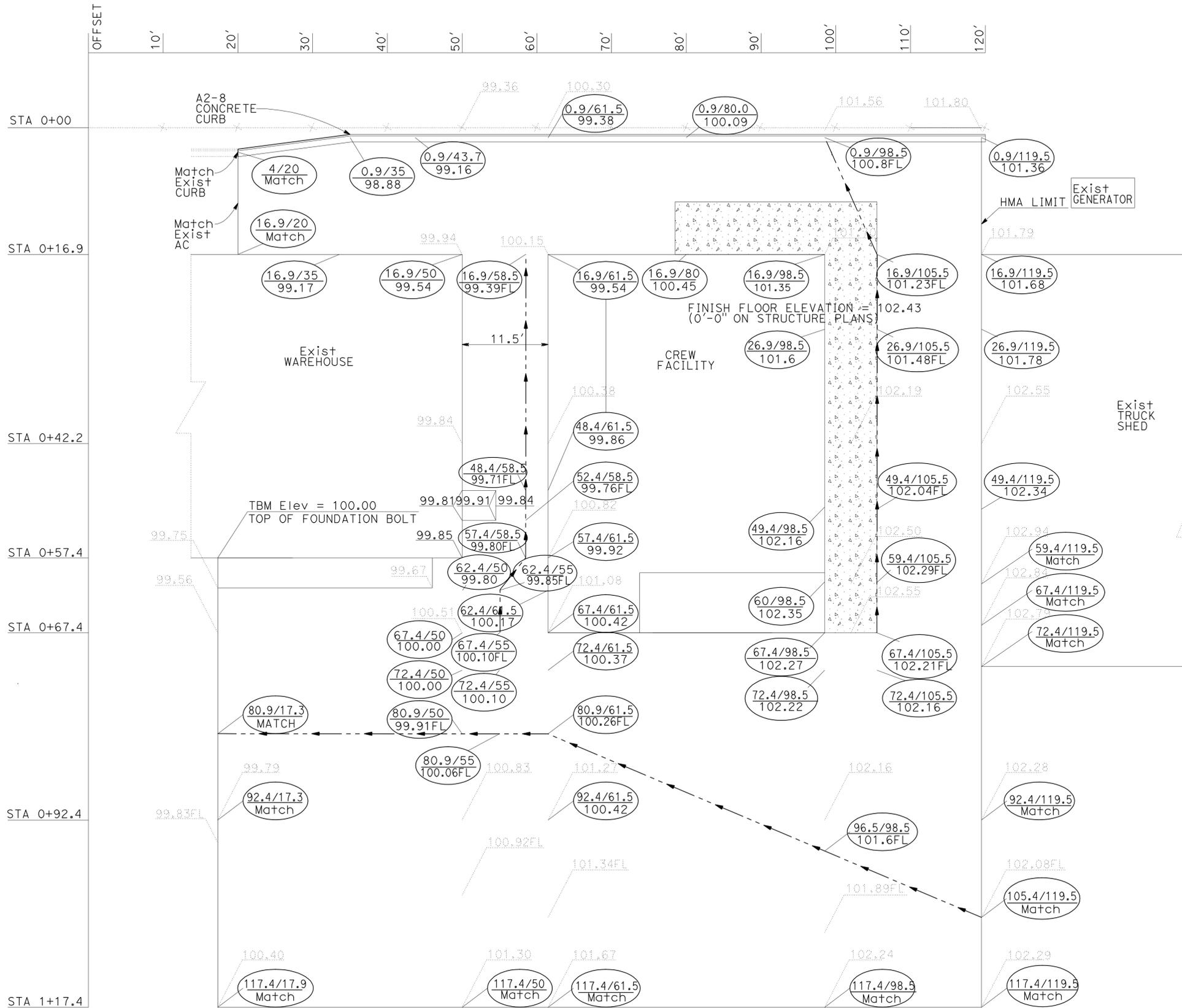
REGISTERED CIVIL ENGINEER	DATE
MATTHEW GOIKE	12-03-12
No. 63638	
Exp. 9-30-14	
CIVIL	

3-11-13  
PLANS APPROVAL DATE

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

**NOTE:**  
1. ELEVATIONS ARE TO THE TOP OF HMA (TYPE A) OR CONCRETE GUTTER FL.



- LEGEND:**
- (Sta/OFFSET Elev) STATION/OFFSET AND ELEVATION
  - [Diagonal Hatching] - 0.33' HMA (TYPE A)
  - [Cross Hatching] - REMOVE EXISTING AC
  - [Grid Pattern] - CONCRETE
  - 103.28 - EXISTING GROUND ELEVATION
  - 103.28 - HMA OR GUTTER INVERT ELEVATION
  - > DRAINAGE FLOW LINE



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

FUNCTIONAL SUPERVISOR: JOHN FOX  
 CALCULATED/DESIGNED BY: [Blank]  
 CHECKED BY: [Blank]  
 REVISIONS: [Blank]  
 REVISOR: MATTHEW GOIKE  
 DATE: [Blank]  
 REVISOR: ALLEN TOBEY  
 DATE: [Blank]

**CREW FACILITY GRADING PLAN**

**CONSTRUCTION DETAILS**  
NO SCALE  
**C-3**

LAST REVISION: DATE PLOTTED => 13-MAR-2013    TIME PLOTTED => 06:58

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Mno	395	51.5	5	68

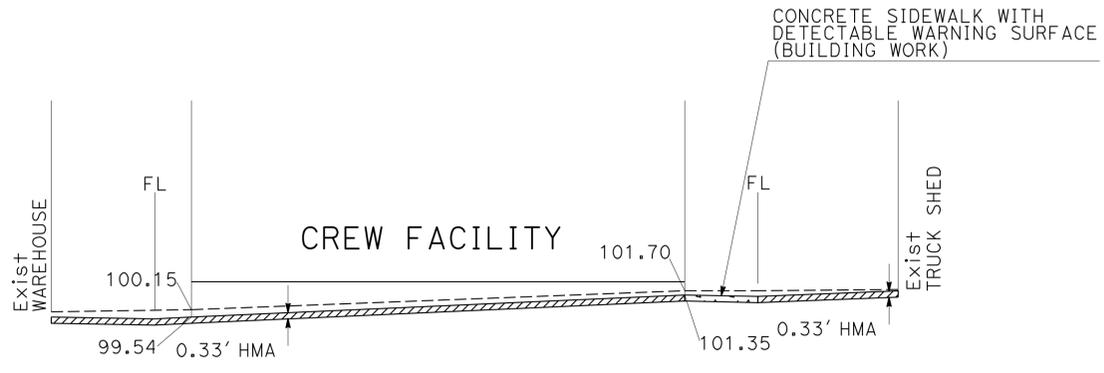
<i>Matthew Goike</i>	12-03-12
REGISTERED CIVIL ENGINEER	DATE
3-11-13	
PLANS APPROVAL DATE	

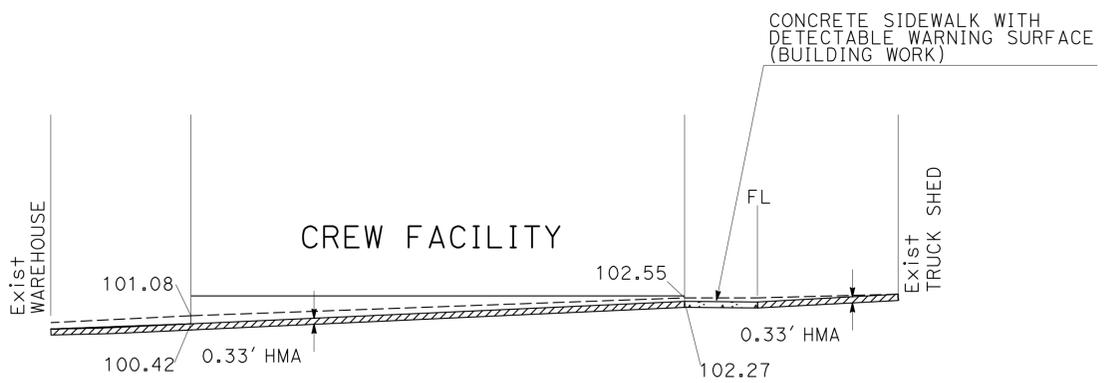
REGISTERED PROFESSIONAL ENGINEER <b>MATTHEW GOIKE</b> No. 63638 Exp. 9-30-14 CIVIL STATE OF CALIFORNIA
---

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR
<b>Caltrans</b> MAINTENANCE ENGINEERING	JOHN FOX		MATTHEW GOIKE
		CHECKED BY	DATE
			ALLEN TOBEY



CREW FACILITY  
Sta 16.9 (EAST FOOTING)  
FF ELEV 102.43



CREW FACILITY  
Sta 67.4 (WEST FOOTING)  
FF ELEV 102.43

**CREW FACILITY SECTIONS**

**CONSTRUCTION DETAILS**  
NO SCALE  
**C-4**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Mno	395	51.5	6	68

*Matthew Goike* 12-03-12  
 REGISTERED CIVIL ENGINEER DATE

3-11-13  
 PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS  
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 COPIES OF THIS PLAN SHEET.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** MAINTENANCE ENGINEERING  
 FUNCTIONAL SUPERVISOR JOHN FOX  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 MATTHEW GOIKE  
 MALISSA REYNOLDS  
 REVISED BY  
 DATE REVISED

PAVEMENT QUANTITIES			
HOT MIX ASPHALT (TYPE A)	MINOR CONCRETE (CURB)	ROADWAY EXCAVATION	IMPORTED BORROW
TON	CY	CY	CY
225	7	60	140

REMOVE ASPHALT CONCRETE PAVEMENT
CY
160

**SUMMARY OF QUANTITIES  
Q-1**

LAST REVISION | DATE PLOTTED => 13-MAR-2013  
 12-03-12 | TIME PLOTTED => 07:18

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	51.5	7	68

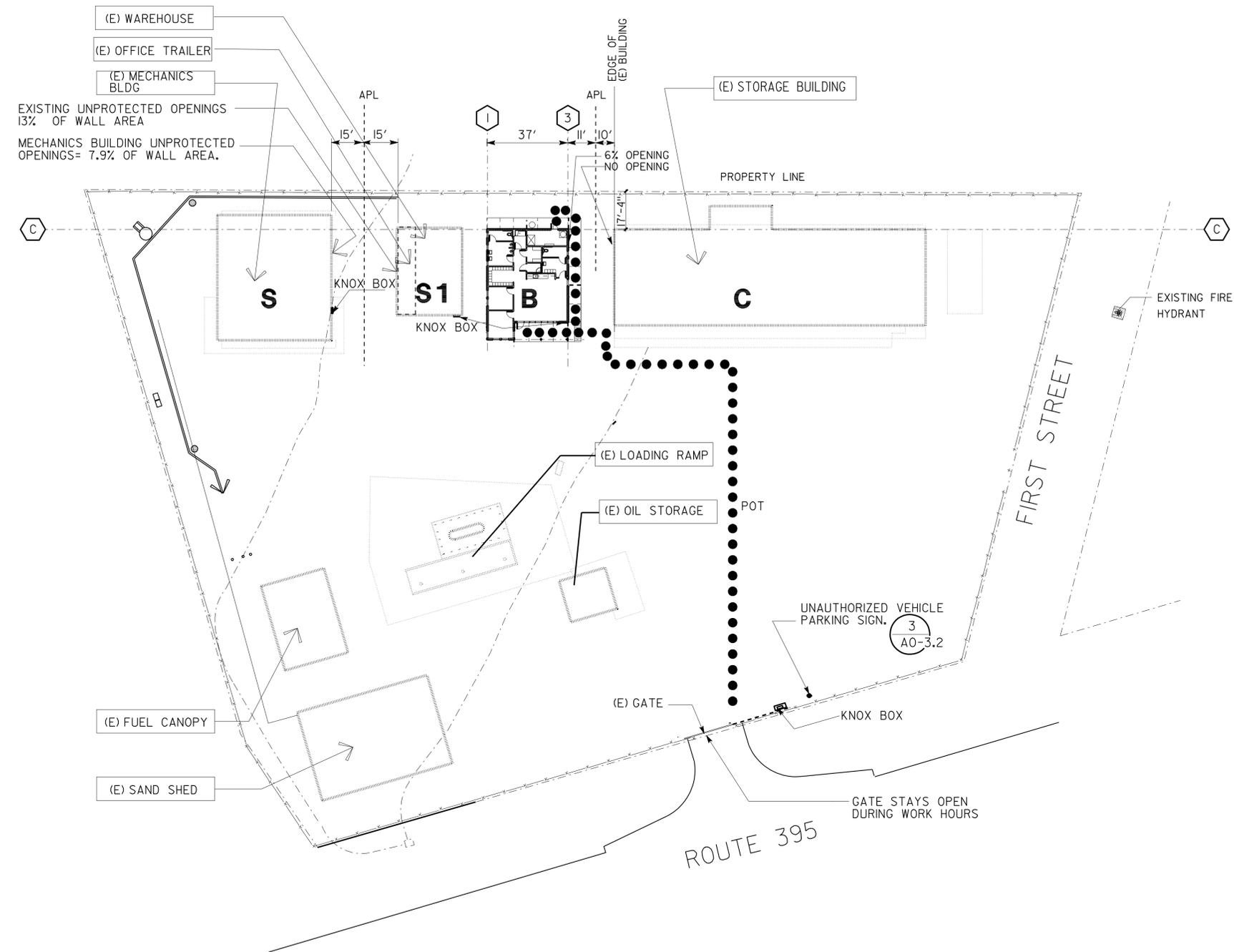
HASSAN AKHAVAN  
 LICENSED ARCHITECT  
 DATE: 3-11-13  
 PLANS APPROVAL DATE



**ACCESSIBILITY DESIGN APPROVAL STAMP**  
 DOT / DES / OTA  
 PROJECT ID: 0912000029  
 Reviewed by: Y. A. WANG  
 Date: 03-05-13

**CALIFORNIA STATE FIRE MARSHAL APPROVED**  
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.  
 Reviewed by: INGRID P. ICASIANO  
 Approval date: 11-27-12

CSFM FILE NO. 01-26-11-0009



**ACCESSIBILITY NOTES**

- Any POT(S) from the new bldg to (E) bldgs/facilities not altered under this project are not required to be included in the scope of work.
- Any POT(S) connecting (E) bldgs/facilities not altered under this project are not required to be included in the scope of work.
- The existing entrance gate shall remain open during business hours.
- No parking space is designated and identified on the site. Any vehicles may park next to the new concrete apron and access the new bldg.
- POT(S) indicated at site plan shall be the most practical direct route between site entrance gate on property line and the exterior doors at the new bldg. Exact location of POT(S) shall be determined by the field engineer. POT(S) may be striped to provide high visibility and safety protection. The contractor shall verify and remove any barriers at POT(S) to comply with all the items below.
- POT(S) surface shall be firm, stable, slip-resistant, w/o loose gravels, sand, chips, etc.
- If any gratings are located in the POT, grid openings in gratings shall be limited to 1/2 inch in the direction of traffic flow.
- Any planter/grate/cover in or adjacent to POT(S) shall require edge protection of Min 6 inches high curb or code-compliant guard or handrail if level change between POT(S) and planter/grate/cover exceeds 4 inches.
- If any exterior POT(S) are less than 60 inches wide, then passing space at least 60 inches x 60 inches shall be located at reasonable intervals not to exceed 200 feet.
- Exterior POT(S) shall be Min 48 inches wide. All POT(S) shall have Min 80 inches head clearance, Max 5% slope in the direction of travel, Max 2% cross slope, Max 1/2 inch level change w/ Max 1:2 slope. Level change not exceeding 1/4 inch may be vertical. Any level change exceeds 1/2 inch or any slope in the direction of travel exceeds 5% shall be accommodated by code-compliant curb ramp or ramp.
- All doors shall have clear level areas on both sides of doors w/ Max 2% slope in any direction. Clear level area at exterior door front approach in the direction of door swing shall be Min 60 inches x 60 inches, including Min 24 inches pass door strike edge; and Min 48 inches deep x 36 inches wide opposite door swing, plus Min 12 inches pass door strike edge if door has both latch and closer.
- Clear level area at interior door front approach in the direction of door swing shall be Min 60 inches deep x 54 inches wide, including Min 18 inches pass door strike edge; and Min 48 inches deep x 36 inches wide opposite door swing, plus Min 12 inches pass door strike edge if door has both latch and closer.
- Level change at the doorway, including threshold thickness, shall be Max 1/2 inch w/ Max 1:2 slope. Level change not exceeding 1/4 inch may be vertical.
- Aisles formed by equipment/ stored materials/ walls at any rooms shall be Min 36 inches wide if serving one side, and Min 44 inches wide if serving both sides.

**1 SITE PLAN**  
 Scale: 1" = 250'

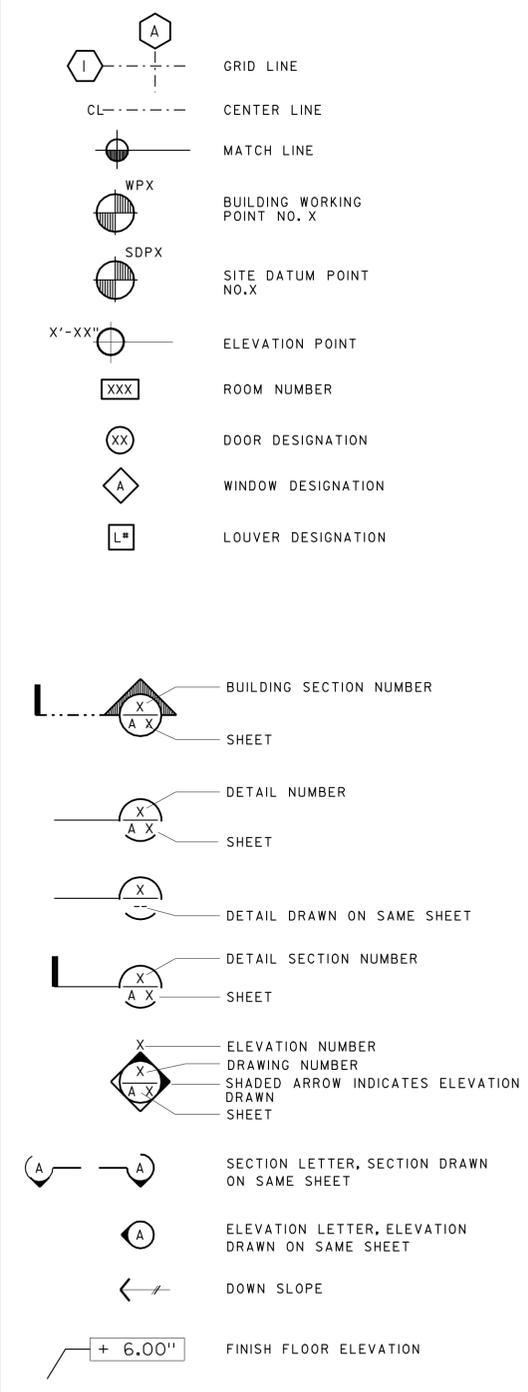


DESIGN SUPERVISOR	DESIGNER: Hassan Akhavan	CHECKED BY: Don Alsey	SHEET LEGEND A-I ARCHITECTURAL ST-I STRUCTURAL M-I MECHANICAL EE-I ELECTRICAL W-I WATER SUPPLY SS-I SANITARY	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 48M5710	LEE VINING MAINTENANCE STATION CREW ROOM BUILDING	SHEET
DESIGN ARCHITECT	DRAWN BY: Hassan Akhavan	STRUCTURAL REVIEW: Don Alsey			ARCHITECTURAL AND STRUCTURAL DESIGN	POST MILE 51.53		GENERAL PLAN
a0_00_gp_1.dgn	13-MAR-2013 09:39	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	UNIT PROJECT NUMBER & PHASE 3600 09120000291	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF	

# ARCHITECTURAL 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
ALR	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(S)	PATH OF TRAVEL
BLDG	BUILDING	FOM	FACE OF MASONRY	PT	PRESERVATIVE TREATED
BLKG	BLOCKING	FOS	FACE OF STUD OR STEEL	PNT	PAINT FINISH
BM	BEAM	FRP	FIBER REINFORCED PANEL	QT	QUARRY TILE
BOT	BOTTOM	FTG	FOOTING	QTY	QUANTITY
BTWN	BETWEEN	FWL	FIRE WATER LINE	R	RADIUS
BU	BUILT-UP	GA	GAUGE	RD	ROOF DRAIN
		GALV	GALVANIZED	REF	REFERENCE
C	CHANNEL	GB	GRAB BAR	REINF	REINFORCED
CAB	CABINET	GLM	GLUE LAMINATED MEMBER	REQD	REQUIRED
CB	CATCH BASIN	GR	GRADE	REFIB	REINFORCED FIBERGLASS
CIP	CAST-IN-PLACE	GYPBD	GYPSPUM BOARD	RFCP	REINFORCED CONCRETE PANEL
CJ	CONTROL JOINT	GFRC	GLASS FIBER REINFORCED CONCRETE	RFEC	RECESSED FIRE EXTINGUISHER CABINET
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
CT	CERAMIC TILE	HR	HOUR	SC	SOLID CORE
CTR	COUNTER	HSB	HIGH STRENGTH BOLT	SCHD	SCHEDULE
CTSK	COUNTERSUNK	HT	HEIGHT	SH	METAL SHELVING
		HVAC	HEATING VENTILATING AND AIR CONDITIONING	SHT	SHEET
DPT	DEPTH			SHWR	SHOWER
DBL	DOUBLE	HWY	HIGHWAY	SIM	SIMILAR
DD	DOWNDRAIN	ID	INSIDE DIAMETER	SM	SQUARE METER
DF	DRINKING FOUNTAIN	ID	IDENTIFICATION	SND	SANITARY NAPKIN DISPOSAL
DIA	DIAMETER	INT	INTERIOR	SPS	STAINLESS STEEL
DIAG	DIAGONAL	INSUL	INSULATION	STAG	STAGGERED
DIM	DIMENSION	JAN	JANITOR	STD	STANDARD
DISP	DISPENSER	JST	JOIST	STL	STEEL
DN	DOWN			SUSP	SUSPENDED
DR	DOOR	L	ANGLE	SYM	SYMETRICAL
DS	DOWNSPOUT	LAM	LAMINATE	T&B	TOP AND BOTTOM
DTL	DETAIL	LAV	LAVATORY	T&G	TONGUE AND GROOVE
DWG	DRAWING	LBF	POUND-FORCE	TEMP	TEMPORARY
DWR	DRAWER			TK	THICK
		MAT	MATERIAL	TIF	TRUCK INSPECTION FACILITY
(E)	EXISTING	MAX	MAXIMUM	TS	TUBE STEEL
E	EAST	MB	MACHINE BOLT	THLD	THRESHOLD
EA	EACH	MECH	MECHANICAL	TYP	TYPICAL
EEWSU	EMERGENCY EYE WASH SHOWER UNIT	MET	METAL	TOCS	TOP OF CONCRETE SLAB
EF	EXHAUST FAN	MFR	MANUFACTURER	TOP	TOP OF PLATE
EHD	ELECTRIC HAND DRYER	MKBD	MARKER BOARD	TOCC	TOP OF CONCRETE CURB
EJ	EXPANSION JOINT	MIN	MINIMUM	TOS	TOP OF STEEL
EL	ELEVATION HEIGHT	MISC	MISCELLANEOUS	TOF	TOP OF DOOR/WINDOW FRAME
ELECT	ELECTRICAL	mm	MILLIMETER	UON	UNLESS OTHERWISE NOTED
ELEV	ELEVATION	MO	MASONRY OPENING	UR	URINAL
ELVR	ELEVATOR	MR	MOISTURE RESISTANT	VAR	VARIES
EMER	EMERGENCY	MT	METAL THRESHOLD	VCT	VINYL COMPOSITION TILE
EQ	EQUAL	MTD	MOUNTED	VERT	VERTICAL
EOS	EDGE OF SLAB	MUL	MULLION	VIF	VERIFY IN FIELD
EQUIP	EQUIPMENT	MS	MOP SINK	VTR	VENT THROUGH ROOF
ESCL	ESCALATOR	N	NORTH	W	WEST
EWC	ELECTRIC WATER COOLER	NA	NOT APPLICABLE	W/	WITH
EXP	EXPANSION	NIC	NOT IN CONTRACT	W/O	WITHOUT
EXT	EXTERIOR	No.	NUMBER	WC	WATER CLOSET
EWC	ELECTRIC WATER COOLER	NTS	NOT TO SCALE	WD	WOOD
				WDW	WINDOW
				WDT	WIDTH
				WR	WATER RESISTANT

# SYMBOLS



# GENERAL NOTES

- CONTRACTOR SHALL VERIFY ALL CONTROLLING DIMENSIONS AND FIELD CONDITIONS BEFORE ORDERING OR FABRICATING ANY MATERIALS OR ASSEMBLIES.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL MEASUREMENTS OR FIELD CONDITIONS.

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	A0-3.5	ACCESSIBILITY STANDARD DETAILS	
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# PROJECT SCOPE

THE PROJECT SHALL CONSIST IN THE CONSTRUCTION OF 1,700 SQUARE FEET CREW BUILDING ADDITION TO EXISTING WAREHOUSE BUILDING

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	51.5	8	68

LICENSED ARCHITECT *Hassan Akhavan* No. C-20451 Exp. 04-30-13

DATE \_\_\_\_\_

3-11-13

PLANS APPROVAL DATE

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

ACCESSIBILITY DESIGN APPROVAL STAMP DOT / DES / OTA

PROJECT ID: 091200029

Reviewed by: *Y. A. WANG* Date: 03-05-13

CALIFORNIA STATE FIRE MARSHAL APPROVED

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

Reviewed by: *Ingrid P. Casiano* INGRID P. CASIANO Approval date: 11-27-12 CSFM FILE NO. 01-24-11-0003

# BUILDING DATA

BUILDING NAME	ACTUAL BLDG AREA	ALLOWABLE AREA	AREA OF PROJECT	AREA INCREASE	AREA SPRINKLER	CONSTRUCTION TYPE	OCCUPANCY TYPE	NUMBER OF STORY	BUILDING HEIGHT
(E) MECHANICAL BUILDING									
(E) WAREHOUSE BUILDING	1,200 sqft								
CREW BLDG	1,700 sqft								
(E) EQUIPMENT BUILDING	6589 sqft								
B	1,700 sf	9,000 sf	2.3 Acre	NA	NA	V-B	B	1	16ft
(E) S-1	1,200 sf	9,000 sf	2.3 Acre	NA	NA	V-B	S-1	1	14ft
(E) C	6589 sf	9,000 sf	2.3 Acre	NA	NA	V-B	S-1	1	16ft
(E) S	2250 sf	9,000 sf	2.3 Acre	NA	NA	V-B	S-1	1	16ft
MIXED OCCUPANCY									
B	1,700 sf	1,200 sf	= 2,900 sf	<9000					
(E) CREW BLDG	1,700 sf			<9000					
(E) S-1									
(E) WAREHOUSE	1,200 sf			<9000					
(E) WAREHOUSE	6589 sf			<9000					
(E) S									
(E) EQUIPMENT BUILDING	2250 sf			<9000					
FIRE SPRINKLERED				NO					
FIRE ALARM				NO					
FIRE HYDRANTS				YES					
SMOKE CONTROL SYSTEM				NO					
KNOX BOX				YES					

# DESIGN CRITERIA

All the building work shall comply with the following codes:

- 2010 California Building Code (CBC) Title 24, Part 2 CCR
- 2010 California Energy Code
- 2010 California Green Bldg Standards Code
- 2010 California Fire Code (CFC) Title 24, Part 9 CCR
- 2010 California Mechanical Code (CMC) Title 24, Part 4 CCR
- 2010 California Plumbing Code (CEC) Title 24, Part 5 CCR
- 2010 California Electrical Code (CEC) Title 24, Part 3 CCR
- 2008 California Building Energy Efficiency Standards
- 2010 Americans with Disabilities Act Standards

DESIGN	BY	Hassan Akhavan	CHECKED	Don Alsey	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO.	48M5710	LEE VINING MAINTENANCE STATION CREW ROOM BUILDING ABBREVIATIONS, SHEET INDEX, BUILDING DATA	SHEET 3 OF 63	
	DETAILS	BY	Hassan Akhavan	CHECKED			Don Alsey	POST MILE			51.53
	QUANTITIES	BY		CHECKED							

UNIT 245 PROJECT NUMBER & PHASE 09120000291

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)

REVISION NO. 1 DATE 07-23-13

CSFM FILE NO. \_\_\_\_\_ ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

TAEMWW Imper1al Rev. 7/10 13-MAR-2013 07:23

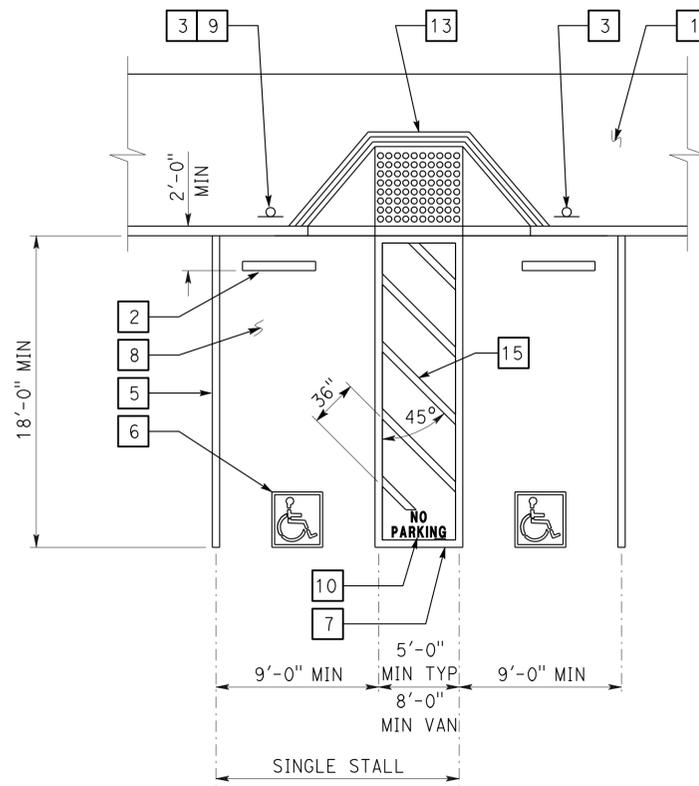
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	51.5	9	68

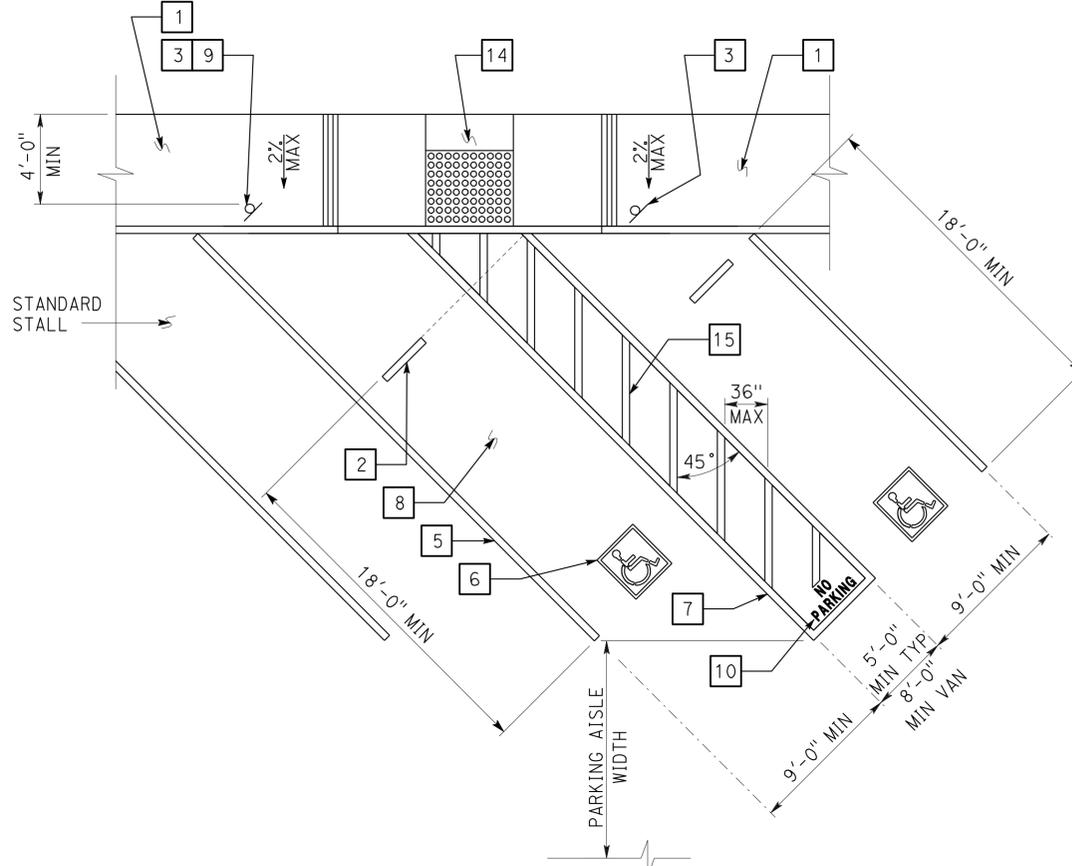
<i>Y.A. Wang</i>		10-19-12	LICENSED ARCHITECT Y.A. WANG No. C14891 Exp. 11-30-13 STATE OF CALIFORNIA
LICENSED ARCHITECT		DATE	
3-11-13			
PLANS APPROVAL DATE			
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.			

**KEYED NOTE LEGEND FOR DETAILS**

- Concrete walkway (where occurs). See plans for width, layout (may vary), finish, joints and elevations.
- Parking bumper (away from access aisle). See Specifications.
- Accessible parking space signage. See Detail 1 on sheet A0-3.2.
- 1' wide grooved border on level surface typ at ramp perimeter. See Detail 3 on this sheet.
- 4" wide white parking stall designation stripe. See site plan(s) for additional stall striping. See specifications for painting.
- Accessible parking surface identification painted on pavement. See Detail 6 on sheet A0-3.2.
- 4" wide blue border designating non-parking access aisle to curb ramp. Access aisle shall be on passenger side only.
- "NO PARKING" in min 12" high white letters to be placed within access aisle to curb ramp. See Detail 7 on sheet A0-3.2.
- Level landing -2% max slope w/36" deep detectable warning surface adjoining access aisle or vehicular way. See Detail 6 on this sheet.
- Detectable warning surface to extend full width and min 36" deep from front edge of sidewalk. See Detail 6 on this sheet.
- Curb ramp. See Detail 4 on this sheet. Also see plans for width and layout (may vary).
- Curb ramp. See Detail 5 on this sheet. Also see plans for width and layout (may vary).
- 4" wide white hatched lines to contrast with asphalt surface. Use blue hatched lines for light-color concrete surface.

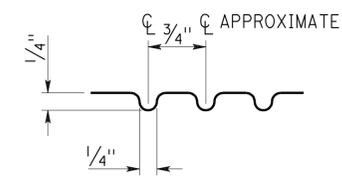


**1 ACCESSIBLE PARKING STALL**

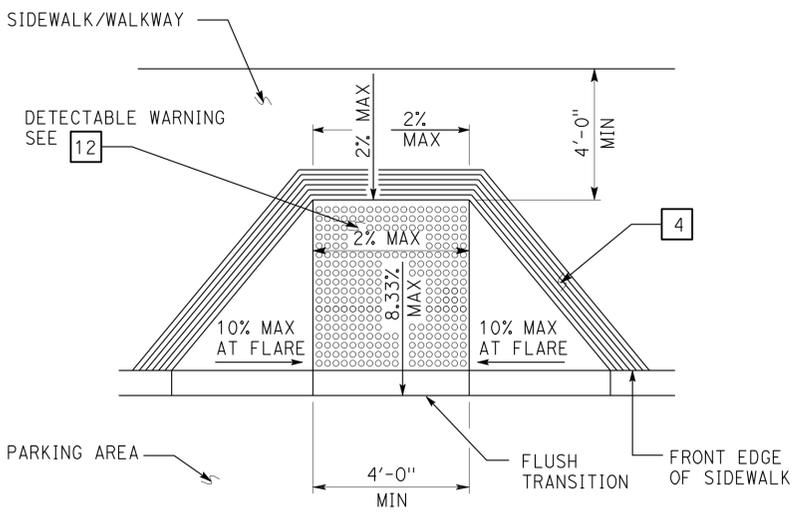


**2 DIAGONAL ACCESSIBLE PARKING STALL**

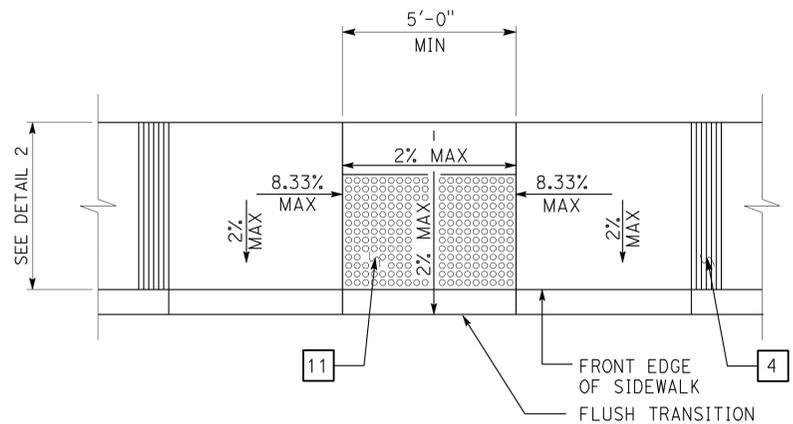
See plan for any variation of diagonal parking. Angle of parking stalls shall either match the existing angle or be indicated on plans.



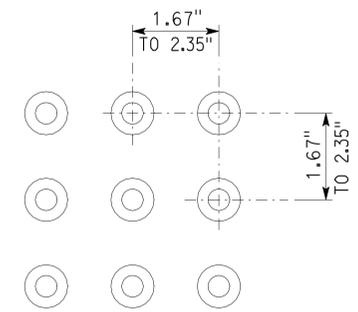
**3 GROOVE DETAIL**



**4 PERPENDICULAR CURB RAMP**

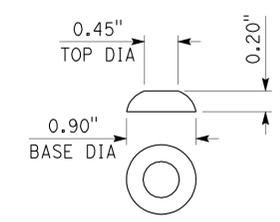


**5 PARALLEL CURB RAMP**



**6 DETECTABLE WARNING SURFACE - TRUNCATED DOMES**

Dome dimensions are nominal, which may be within ±0.05" for dome spacing, and ±0.02" for dome size.



**DOMES**

**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			
FILE NO. 10-12	DESIGN BY D. Aisey	CHECKED Y. A. Wang	APPROVED <i>Y.A. Wang</i>
DRAWING DATE 10-12	DETAILS BY D. Good	CHECKED Y. A. Wang	DESIGN SUPERVISOR
SUBMITTED BY Y.A. Wang			

STATE OF CALIFORNIA	
DEPARTMENT OF TRANSPORTATION	

DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 48M5710
ARCHITECTURAL AND STRUCTURAL DESIGN	POST MILE 51.53

LEE VINING MAINTENANCE STATION		SHEET A0-3.1
ACCESSIBILITY STANDARD DETAILS		

a0_03a_i.dgn	Rev. 7/10	13-MAR-2013	07:23
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ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0	1	2	3
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UNIT PROJECT NUMBER & PHASE	3600 09120000291
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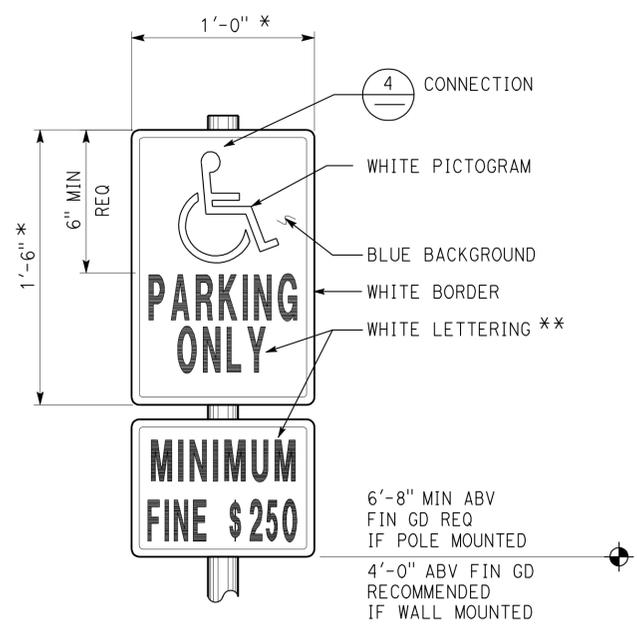
DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
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13-MAR-2013 07:23

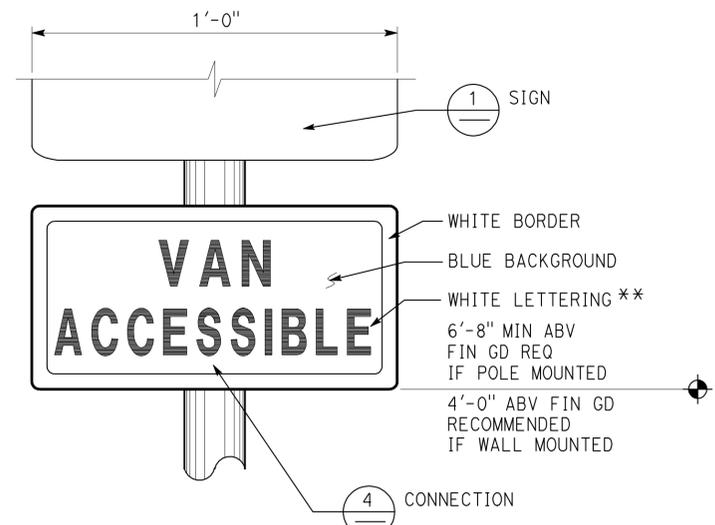
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	51.5	10	68

  
 LICENSED ARCHITECT  
 DATE 10-19-12  
 Y.A. WANG  
 No. C14891  
 Exp. 11-30-13  
 STATE OF CALIFORNIA

3-11-13  
 PLANS APPROVAL DATE  
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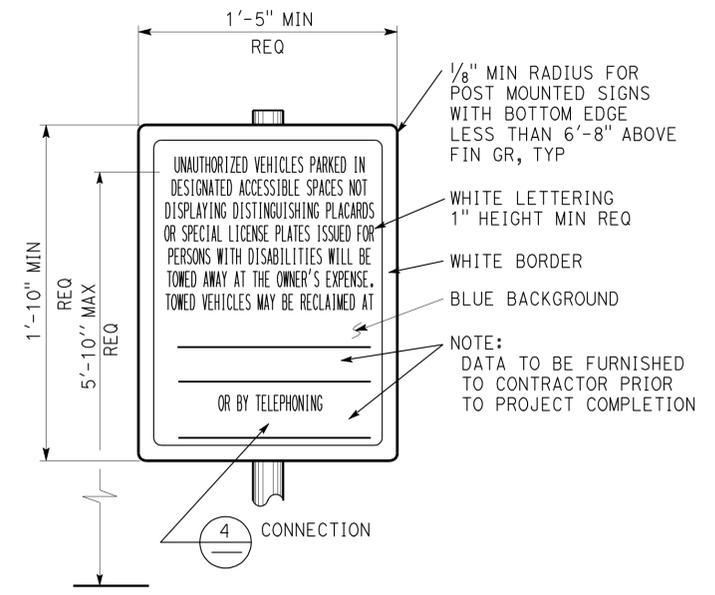


**1 ACCESSIBLE PARKING SIGN**  
 Refer to Site Plan for locations. Combo sign may be used.  
 \* Min area 70 sq in req  
 \*\* 2" min ht req for up to 10'-0" mounting ht from baseline of highest letter to fin gd.  
 3" min ht req for mounting ht over 10'-0".

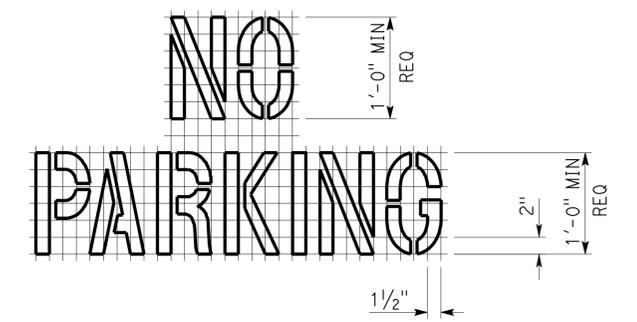


**2 ACCESSIBLE VAN PARKING SIGN**  
 Refer to Site Plan for locations. Combo sign may be used.

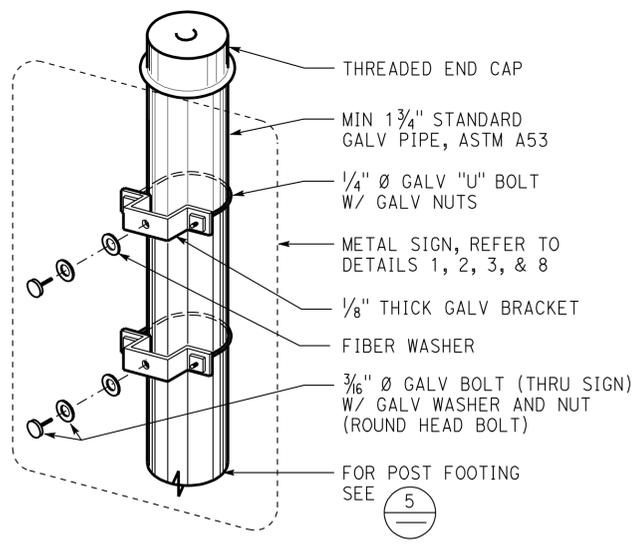
Note:  
 All listed sign sizes are recommended standard sizes, unless otherwise noted as required. All mounting heights are recommended, unless otherwise noted as required.



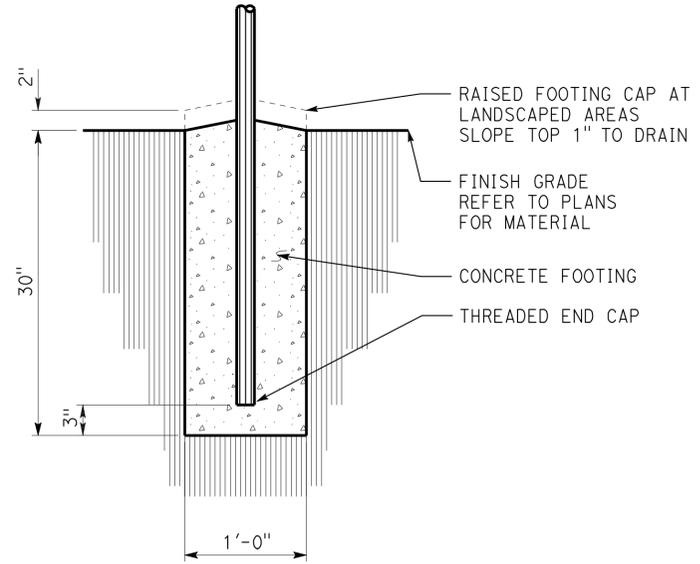
**3 UNAUTHORIZED VEHICLES PARKING SIGN**  
 Refer to Site Plan for locations. Colors may vary. Sign shall not be posted in a path of travel.



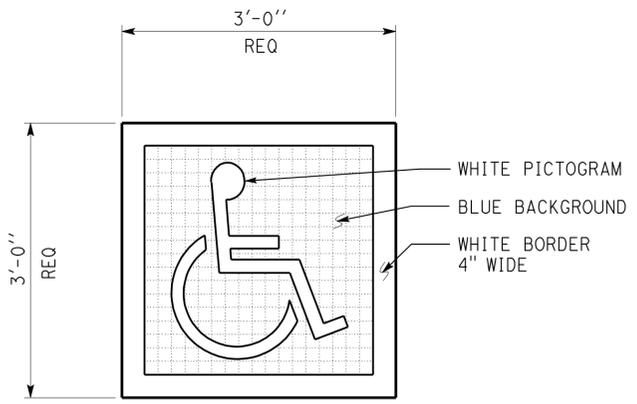
**7 ACCESS AISLE PAVEMENT MARKING**



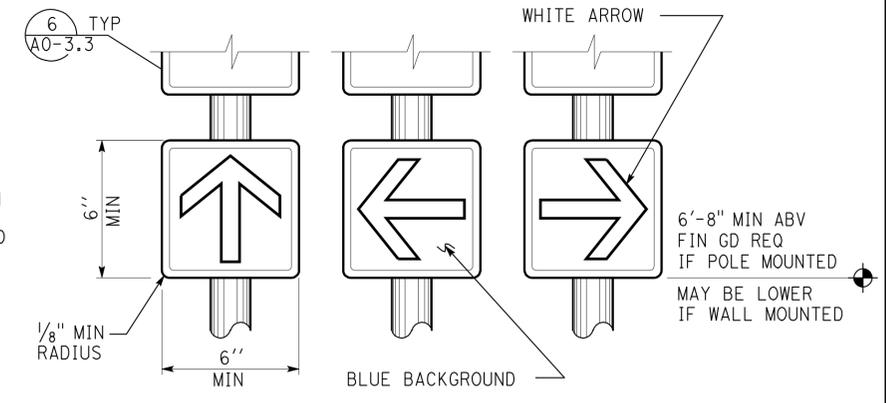
**4 SIGN CONNECTION**



**5 SIGN POST FOOTING**



**6 ACCESSIBLE PARKING SURFACE IDENTIFICATION**  
 Refer to Details 1 and 2 on sheet A0-3.1 for locations.



**8 DIRECTIONAL SIGNS**  
 Refer to Site Plan or General Plan for locations. Wall or door mounted signs may be used. Combo sign may be used. Colors may vary.

**DETAILS**  
 No scale unless otherwise noted

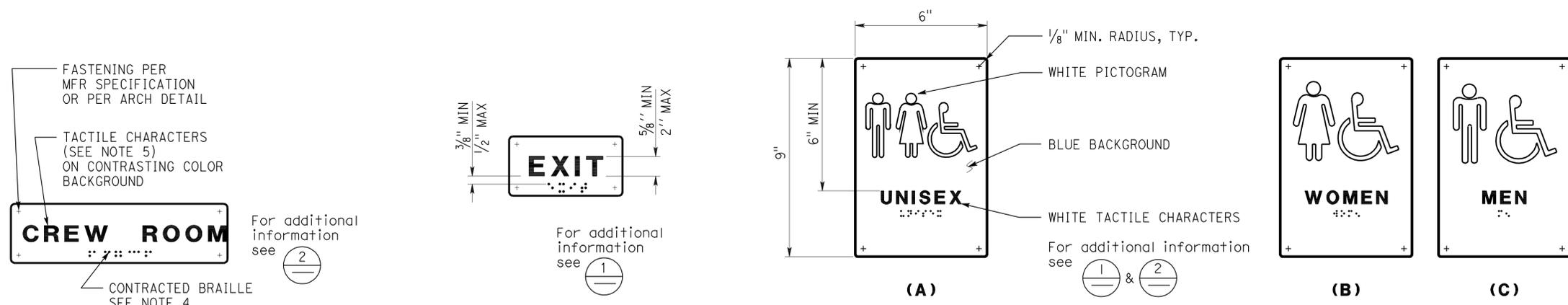
NOTE: SPECIFIC DETAILS OR NOTES ON OTHER SHEETS SHALL PREVAIL OVER STANDARD DETAILS AND NOTES ON THIS SHEET

STANDARD DRAWING				STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 48M5710 POST MILE 51.53	<b>LEE VINING MAINTENANCE STATION</b> ACCESSIBILITY STANDARD DETAILS	SHEET <b>A0-3.2</b>
FILE NO. 10-12	DESIGN BY D. Aisey	CHECKED Y. A. Wang	APPROVED <i>R.E. Travin</i> DESIGN SUPERVISOR					
a0_03b_1.dgn TAEMW imperial Rev. 7/10 13-MAR-2013 07:23				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		UNIT PROJECT NUMBER & PHASE 3600 09120000291		SHEET OF - 07 -

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	51.5	11	68

<i>Y.A. Wang</i>		05-18-12	LICENSED ARCHITECT Y.A. WANG No. C14891 Exp. 11-30-13 STATE OF CALIFORNIA
LICENSED ARCHITECT		DATE	
3-11-13 PLANS APPROVAL DATE			
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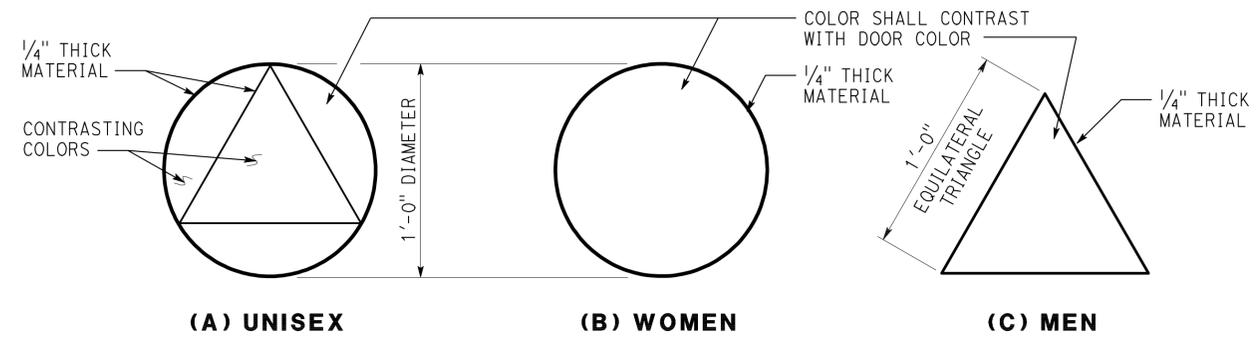
**1 ROOM IDENTIFICATION SIGN**  
Install per Detail 5.  
Text varies.  
See plans, ext elevations, or door schedule for locations and text.  
See Detail 7 for text mounting heights.

**2 INTERIOR EXIT SIGN**  
Install per Detail 5.  
Text may vary.  
See plans, or door schedule for locations and text.  
See Detail 7 for text mounting heights.

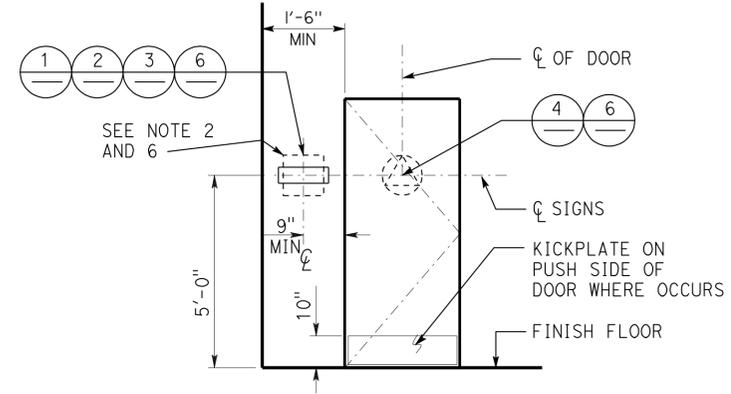
**3 RESTROOM/SHOWER ROOM SIGNS**  
Install per Detail 5.  
See Detail 7 for text mounting heights.

ACCESSIBILITY DESIGN APPROVAL STAMP DOT / DES / OTA PROJECT ID <b>091200029</b>	CALIFORNIA STATE FIRE MARSHAL APPROVED Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approvals subject to field inspection. One set of approved plans shall be available on the project site at all times.
Reviewed by: <i>Y.A. Wang</i> Y. A. WANG Date: 03-05-13	Reviewed by: <i>Ingrid P. Casiano</i> INGRID P. CASIANO Approval date: 11-27-12

CSFM FILE NO. 01-26-11-0009

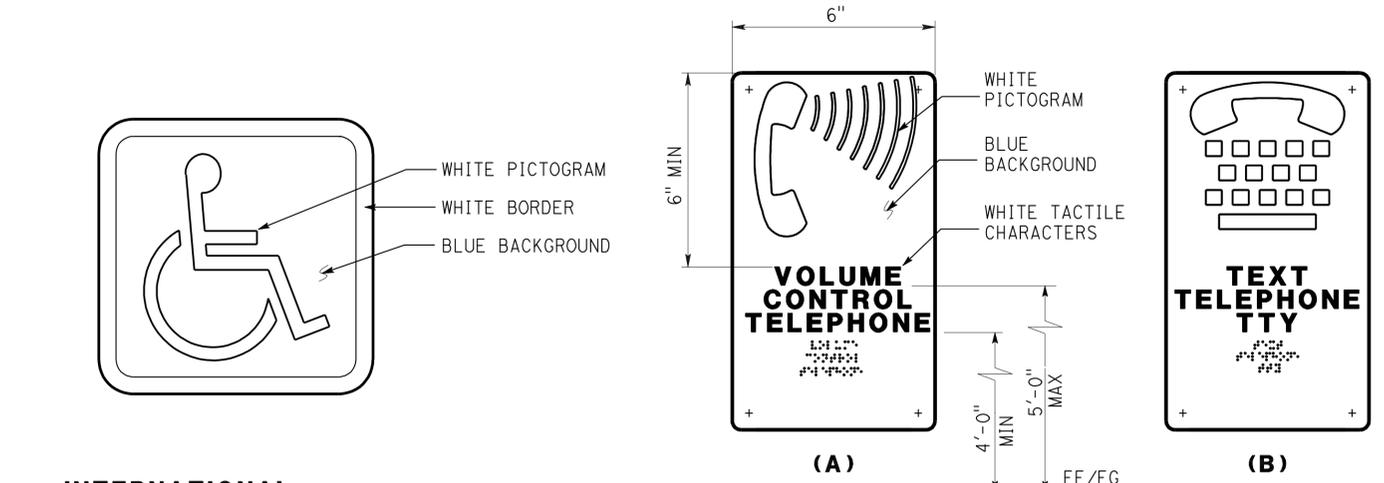


**4 RESTROOM/SHOWER ROOM IDENTIFICATION SYMBOLS**  
Install per Detail 5.  
Any pictogram and text are not required.



**5 SIGN LOCATIONS**  
Refer to signage notes for additional information.

- SIGNAGE NOTES:**
1. 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. Locate sign to the right of right hand door at double doors with two active leaves.
  2. Refer to specifications for sign material and other color selection. Except Detail 6, sign colors may vary from details.
  3. See door schedule for text and sign location, UON.
  4. Contracted 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. Dots shall be domed or rounded.
  5. 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.
  6. Provide 18"x18" min clear floor space in front of and centered on the sign.

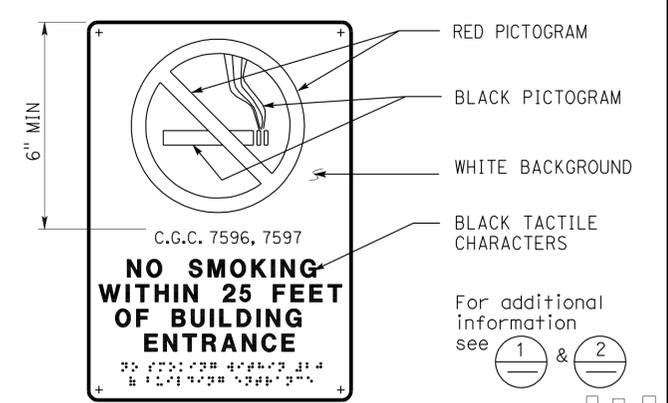


**6 INTERNATIONAL SYMBOL OF ACCESSIBILITY SIGN**  
Install per Detail 5.  
See plans, elevations, or schedule for sign locations.  
Decal may be used.

**7 TELEPHONE SIGNS**  
Text may vary.  
See plans or exterior elevations for sign locations and mounting heights.



**8 RESTROOM ACCOMPANY SIGN**  
See plans or elevations for locations.  
See Detail 7 for text mounting heights.



**9 NO SMOKING SIGN**  
See plans or ext elevations for locations.  
See Detail 7 for text mounting heights.

**DETAILS**  
No scale unless otherwise noted

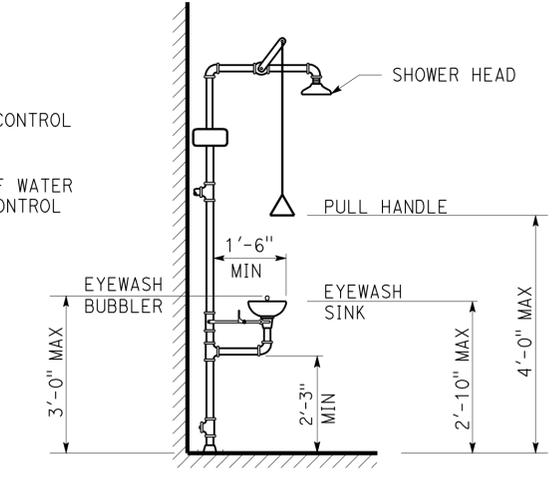
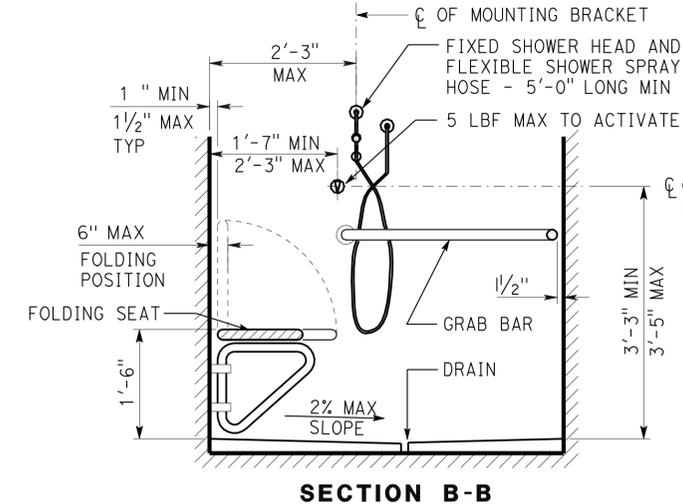
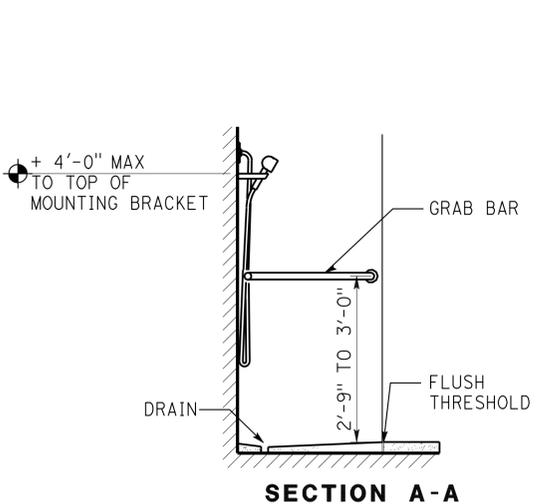
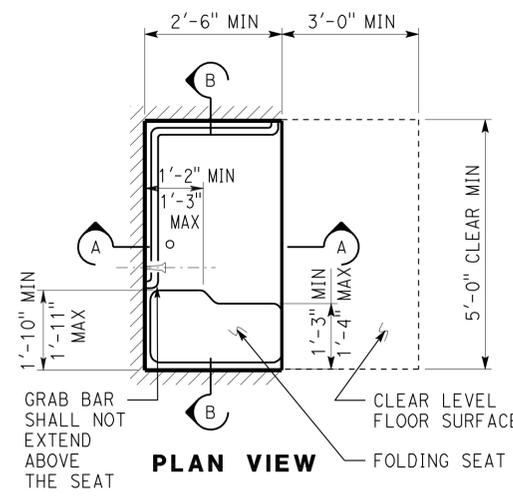
NOTE: SPECIFIC DETAILS OR NOTES ON OTHER SHEETS SHALL PREVAIL OVER STANDARD DETAILS AND NOTES ON THIS SHEET

STANDARD DRAWING				STATE OF CALIFORNIA		DIVISION OF ENGINEERING SERVICES		BRIDGE NO. 48M5710		LEE VINING MAINTENANCE STATION CREW ROOM BUILDING		SHEET	
FILE NO. 05-12	DESIGN BY D. Aisey	CHECKED Y. A. Wang	APPROVED <i>Y.A. Wang</i>	DEPARTMENT OF TRANSPORTATION		ARCHITECTURAL AND STRUCTURAL DESIGN		POST MILE 51.53		ACCESSIBILITY		A0-3.3	
SUBMITTED BY Y.A. Wang				DESIGN SUPERVISOR		PROJECT NUMBER & PHASE 3600 0912000291		DISREGARD PRINTS BEARING EARLIER REVISION DATES		ACCESSIBILITY STANDARD DETAILS		SHEET OF 7 60	
TAEMWW Imper1al Rev. 7/10 13-MAR-2013 07:35				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		UNIT PROJECT NUMBER & PHASE		REVISION DATES (PRELIMINARY STAGE ONLY) -07		SHEET OF 7 60		A0-3.3.dgn	

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	51.5	12	68

<i>Y.A. Wang</i>		05-18-12	LICENSED ARCHITECT Y.A. WANG No. C14891 Exp. 11-30-13 STATE OF CALIFORNIA
LICENSED ARCHITECT		DATE	
3-11-13 PLANS APPROVAL DATE			
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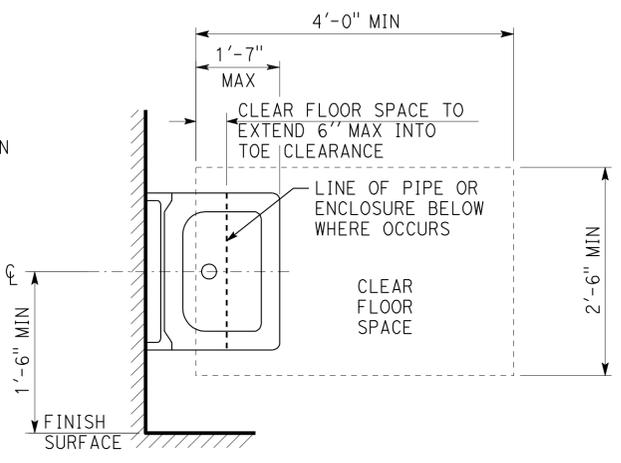
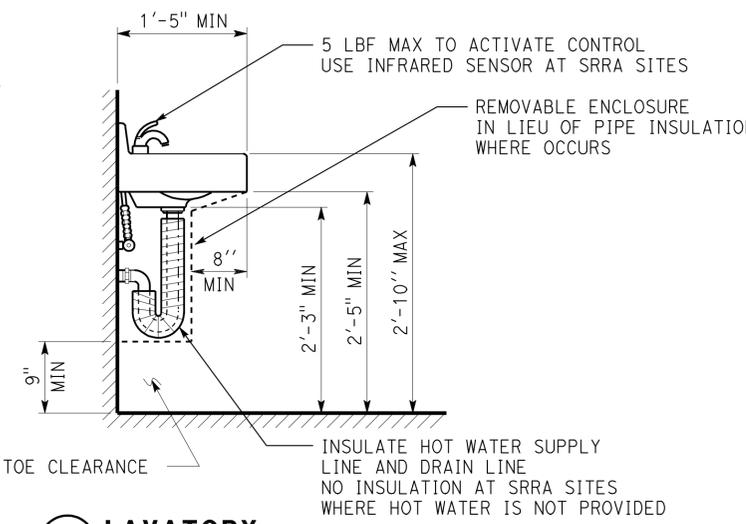
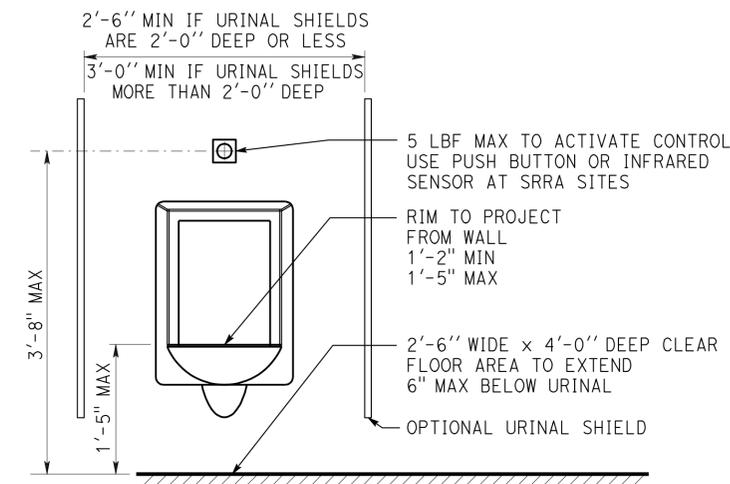
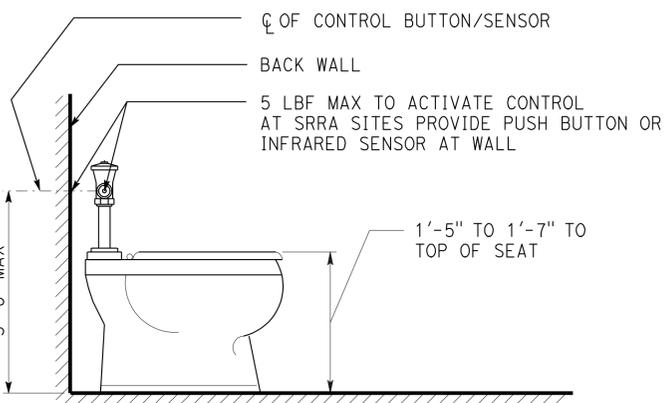


**1 SHOWER STALL**  
Optional standard shower head may be added to wall opposite shower seat. Locate water diverter per water control.

**2 EMERGENCY EYEWASH/SHOWER**  
Foot pedal may be added to operate equipment

ACCESSIBILITY DESIGN APPROVAL STAMP DOT / DES / OTA PROJECT ID <b>091200029</b>	CALIFORNIA STATE FIRE MARSHAL APPROVED Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
Reviewed by: <i>Y.A. Wang</i> Date: 03-05-13	Reviewed by: <i>Ingrid P. Casiano</i> INGRID P. CASIANO Approval date: 11-27-12

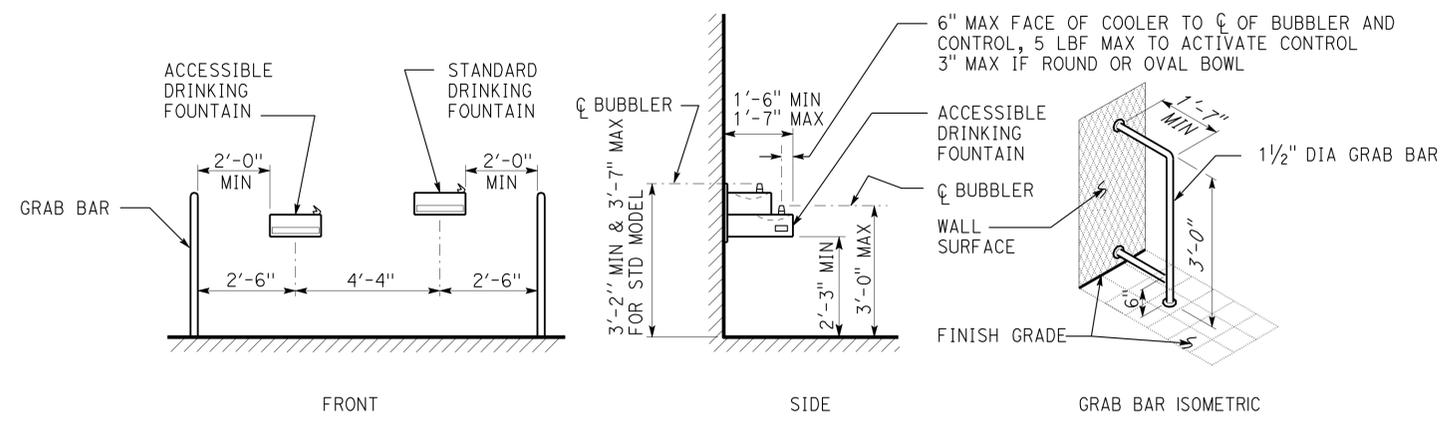
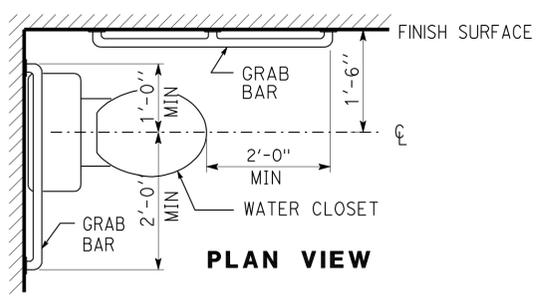
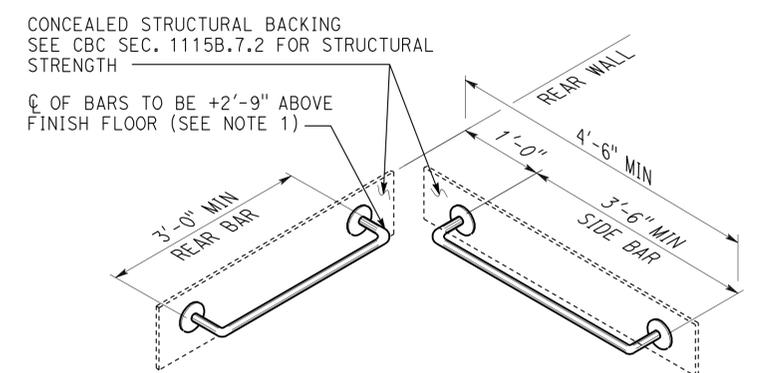
CSFM FILE NO. 01-26-11-0005



**3 WATER CLOSET**  
See Spec for fixture type

**4 URINAL**

**5 LAVATORY**



**6 GRAB BARS/ WATER CLOSET**

Grab bar note:  
1. If tank type toilet is used, top of rear bar may be set to 3'-0" max above finish floor. Side bar to remain as shown.  
2. Grab bars to be 1 1/4" to 1 1/2" diameter with clear space of 1 1/2" to smooth wall surface.

**7 ELECTRIC WATER COOLER**  
In lieu of grab bars, other types of wing walls may be used. Dimensions at front elevation may vary - see plan.

**DETAILS**  
No scale unless otherwise noted

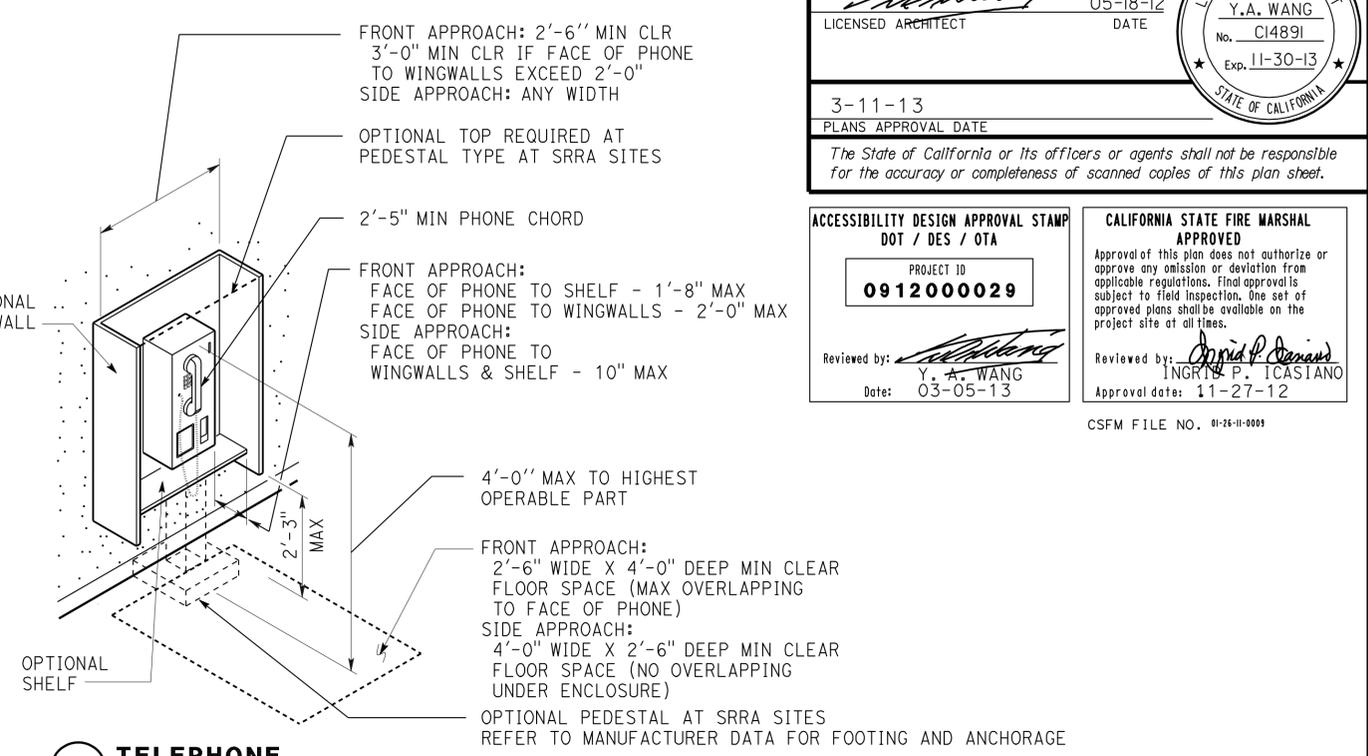
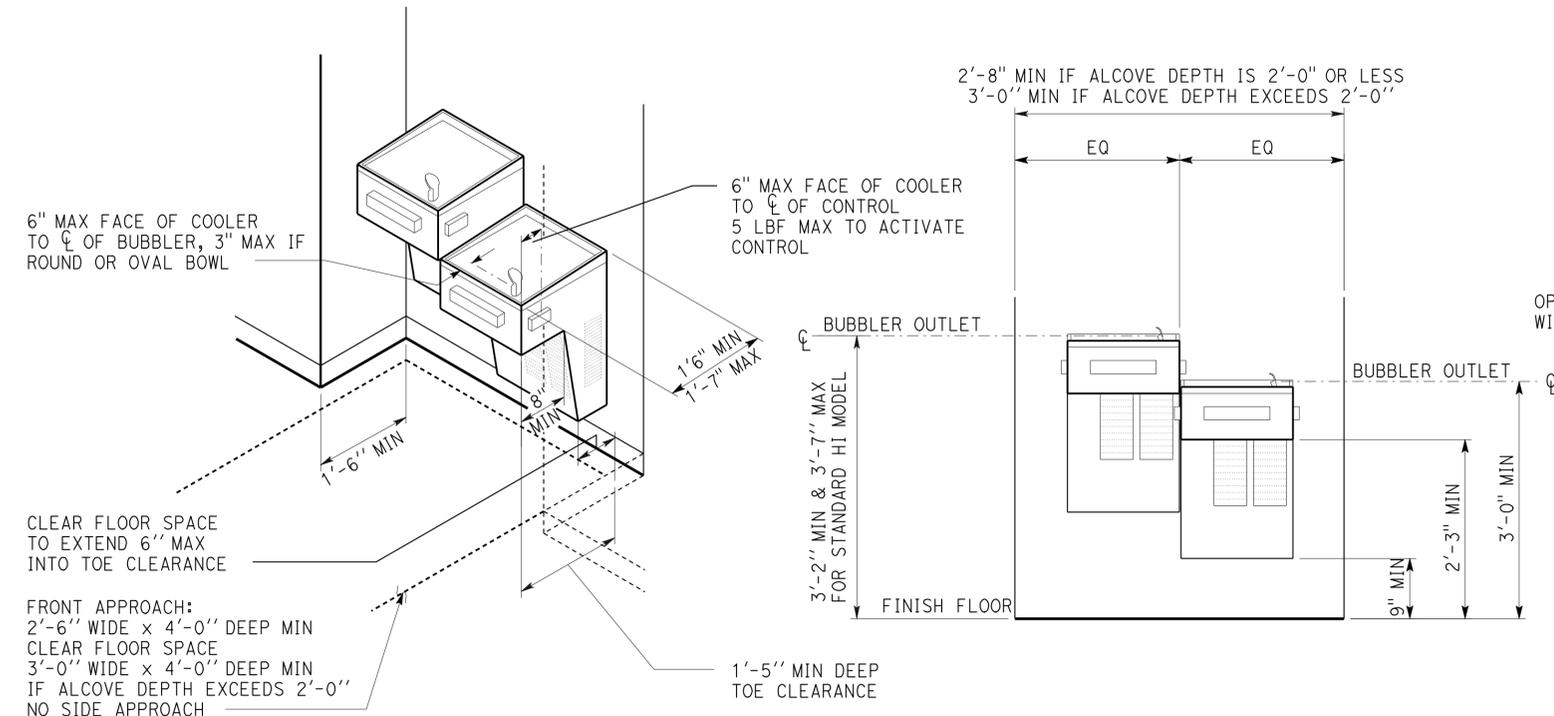
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STANDARD DRAWING				STATE OF CALIFORNIA		DIVISION OF ENGINEERING SERVICES		BRIDGE NO. 48M5710		LEE VINING MAINTENANCE STATION CREW ROOM BUILDING		SHEET	
FILE NO. 05-12	DESIGN BY D. Aisey	CHECKED Y. A. Wang	APPROVED <i>Y.A. Wang</i>	DEPARTMENT OF TRANSPORTATION		ARCHITECTURAL AND STRUCTURAL DESIGN		POST MILE 51.53		ACCESSIBILITY		A0-3.4	
SUBMITTED BY Y.A. Wang				PROJECT NUMBER & PHASE 3600 09120000291		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET 8		OF 60	

13-MAR-2013 07:35

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	51.5	13	68

LICENSED ARCHITECT *Y.A. Wang* 05-18-12 DATE  
 Y.A. WANG No. C14891 Exp. 11-30-13  
 STATE OF CALIFORNIA  
 3-11-13 PLANS APPROVAL DATE  
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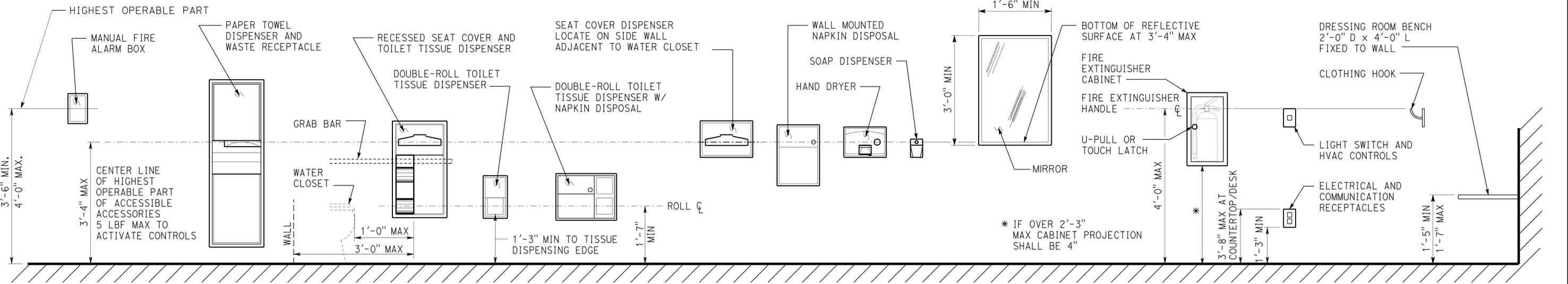


ACCESSIBILITY DESIGN APPROVAL STAMP	CALIFORNIA STATE FIRE MARSHAL APPROVED
PROJECT ID <b>091200029</b> Reviewed by: <i>Y.A. Wang</i> Date: 03-05-13	Approved by: <i>Ingrid P. Casiano</i> INGRID P. CASIANO Approval date: 11-27-12 CSFM FILE NO. 01-26-11-0005

**1 ELECTRIC WATER COOLER AT ALCOVE**

Fixture type may vary.  
 Width of alcove may vary.  
 Two fixtures with separate mounting heights may be installed at separate locations.

**2 TELEPHONE**



**3 ACCESSORIES**

**DETAILS**  
 No scale unless otherwise noted

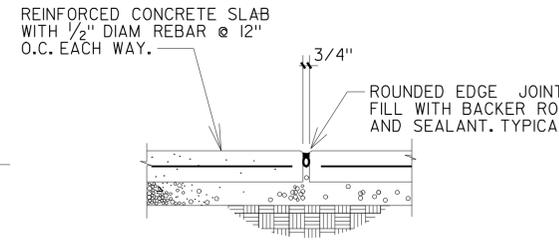
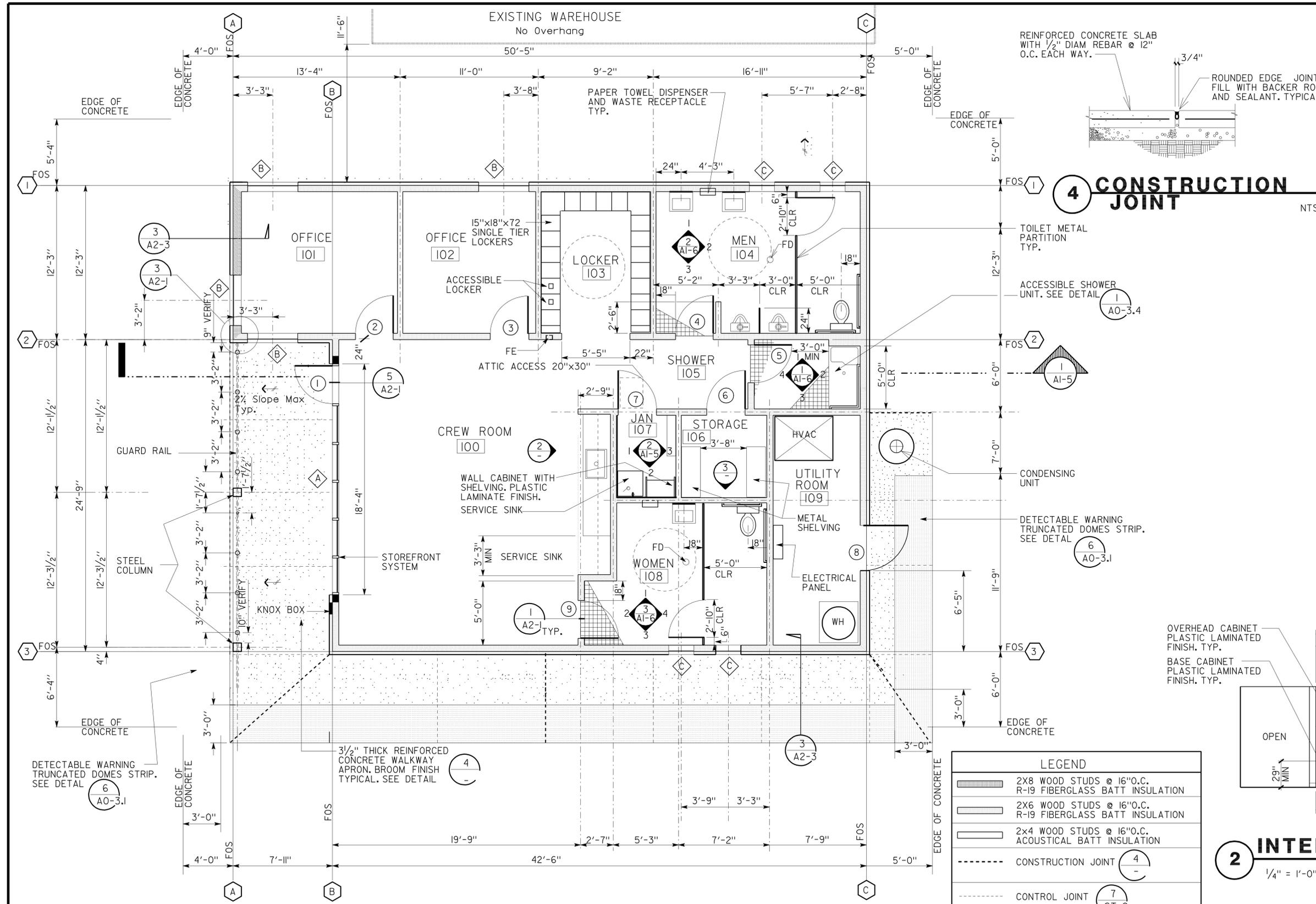
NOTE: SPECIFIC DETAILS OR NOTES ON OTHER SHEETS SHALL PREVAIL OVER STANDARD DETAILS AND NOTES ON THIS SHEET

STANDARD DRAWING				STATE OF CALIFORNIA		DIVISION OF ENGINEERING SERVICES		BRIDGE NO. 48M5710		LEE VINING MAINTENANCE STATION CREW ROOM BUILDING		SHEET	
FILE NO. 05-12	DESIGN BY D. Aisey	CHECKED Y. A. Wang	APPROVED <i>Y.A. Wang</i>	DEPARTMENT OF TRANSPORTATION		ARCHITECTURAL AND STRUCTURAL DESIGN		POST MILE 51.53		ACCESSIBILITY		A0-3.5	
DATE 05-12	DETAILS BY D. Good	CHECKED Y. A. Wang	DESIGN SUPERVISOR	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT PROJECT NUMBER & PHASE 3600 09120000291		DISREGARD PRINTS BEARING EARLIER REVISION DATES		ACCESSIBILITY STANDARD DETAILS		SHEET OF 9 63	
TAEMWW Imper1al Rev. 7/10 13-MAR-2013 07:35				0 1 2 3		EA 000000		REVISION DATES (PRELIMINARY STAGE ONLY)		- -07		a0_3.5.dgn	

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	51.5	14	68

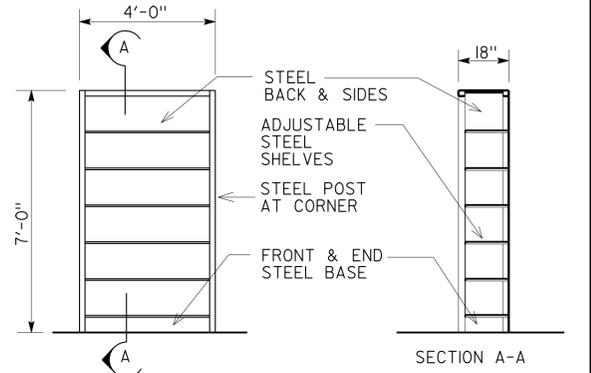
LICENSED ARCHITECT  
 Hassan Akhavan  
 No. C-20451  
 Exp. 04-30-13  
 STATE OF CALIFORNIA

3-11-13  
 PLANS APPROVAL DATE  
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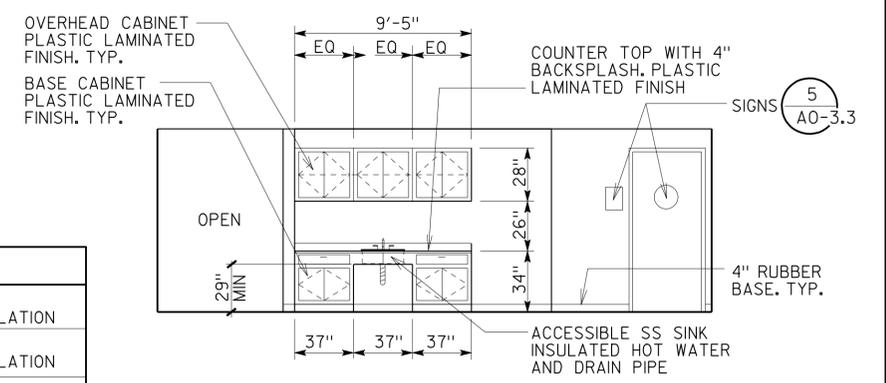


### 4 CONSTRUCTION JOINT

<b>ACCESSIBILITY DESIGN APPROVAL STAMP</b> DOT / DES / OTA PROJECT ID <b>091200029</b> Reviewed by: <i>[Signature]</i> Y. A. WANG Date: 03-05-13	<b>CALIFORNIA STATE FIRE MARSHAL APPROVED</b> Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times. Reviewed by: <i>[Signature]</i> INGRID P. ICASIANO Approval date: 11-27-12 CSFM FILE NO. 01-26-11-0009
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### 3 SHELVING



### 2 INTERIOR ELEVATION

LEGEND	
	2x8 WOOD STUDS @ 16"O.C. R-19 FIBERGLASS BATT INSULATION
	2x6 WOOD STUDS @ 16"O.C. R-19 FIBERGLASS BATT INSULATION
	2x4 WOOD STUDS @ 16"O.C. ACOUSTICAL BATT INSULATION
	CONSTRUCTION JOINT (4)
	CONTROL JOINT (7)
	CENTER LINE

### 1 FLOOR PLAN

a1_01_floorplan.dgn TAEMWW Imper1al Rev. 7/10 13-MAR-2013 07:35	DESIGN BY Hassan Akhavan CHECKED Don Alsey	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 48M5710 POST MILE 51.53	<b>LEE VINING MAINTENANCE STATION CREW ROOM BUILDING</b>	SHEET 10 OF 63
	DETAILS BY Hassan Akhavan CHECKED Don Alsey		QUANTITIES BY Hassan Akhavan CHECKED Don Alsey	UNIT PROJECT NUMBER & PHASE 245 09120000291	DISREGARD PRINTS BEARING EARLIER REVISION DATES	FLOOR PLAN

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	51.5	15	68

### ROOM FINISH SCHEDULE

NO.	ROOM NAME	FLOOR	WALLS				CEILING		FINISHES	
			VINYL COMPOSITION TILE	CERAMIC TILES	CONCRETE	5/8" GYP BD	5/8" WR GYP BD	4" RESILIENT BASE CERAMIC TILE BASE COVERED 3/8" R		1/2" GYP BD
									① NO FINISH WORK ② CLEAN AND WAX ③ CONCRETE SMOOTH FINISH HARDENER AND SEALER ④ TAPE, TEXTURE & PAINT	
									NOTES	
100	CREW ROOM	②			④			①	④	9'-6"
101	OFFICE	②			④			①	④	9'-6"
102	OFFICE	②			④			①	④	9'-6"
103	LOCKER	②			④			①	④	9'-6"
104	MEN		①		④	①		①	④	9'-6"
105	SHOWER		①		④	④	①	①	④	9'-6"
106	STORAGE	②			④			①	④	9'-6"
107	JAN	②			④	②	⑤	①	④	9'-6"
108	WOMEN		①		④	①		①	④	9'-6"
109	UTILITY ROOM			③	④			①	④	9'-6"

### DOOR SCHEDULE

NO.	W X H	T	MAT	FINISH	DOOR TYPE	FRAME TYPE	FRAME SIZE	HRDWR GROUP	DETAILS	NOTES	SIGNS
①	3'-0"X7'-0"		ALUM	CLEAR ANODIZED	A	STOREFRONT SYSTEM		MFR	⑤ A2-1	INTERNATIONAL SYMBOL OF ACCESSIBILITY EXIT SIGN	6/AO-3.3 2/AO-3.3
②	3'-0"X7'-0"	13/4"	WOOD	STAIN	B	I	7 3/4"X2"	1	⑥ A2-1	SAFETY GLASS LITE ROOM IDENTIFICATION SIGN	1/AO-3.3
③	3'-0"X7'-0"	13/4"	WOOD	STAIN	B	I	7 3/4"X2"	1	⑥ A2-1	SAFETY GLASS LITE ROOM IDENTIFICATION SIGN	1/AO-3.3
④	3'-0"X7'-0"	13/4"	WOOD	STAIN	B	I	8 1/4" X 2"	2	⑥ A2-1	RESTROOM SIGN IDENTIFICATION SYMBOL	3C/AO-3.3 4C/AO-3.3
⑤	3'-0"X7'-0"	13/4"	WOOD	STAIN	B	I	8 1/4" X 2"	2	⑥ A2-1	ROOM IDENTIFICATION SIGN	1/AO-3.3
⑥	3'-0"X7'-0"	13/4"	WOOD	STAIN	B	I	7 3/4"X2"	1	⑥ A2-1	ROOM IDENTIFICATION SIGN	1/AO-3.3
⑦	3'-0"X7'-0"	13/4"	WOOD	STAIN	B	I	7 3/4"X2"	1	⑥ A2-1	ROOM IDENTIFICATION SIGN	1 / AO-3.3
⑧	3'-6"X7'-0"	13/4"	HOLLOW METAL	PAINT	C	2	8 1/4" X 2"	3	④ A2-1	ROOM IDENTIFICATION SIGN	1 / AO-3.3
⑨	3'-0"X7'-0"	13/4"	WOOD	STAIN	B	I	8 1/4" X 2"	2	⑥ A2-1	RESTROOM SIGN IDENTIFICATION SYMBOL	3B/AO-3.3 4B/AO-3.3

NOTE 1. SEE DETAIL 5/ AO-3.3 AND DOOR SCHEDULE FOR SIGNS TYPES AND LOCATIONS

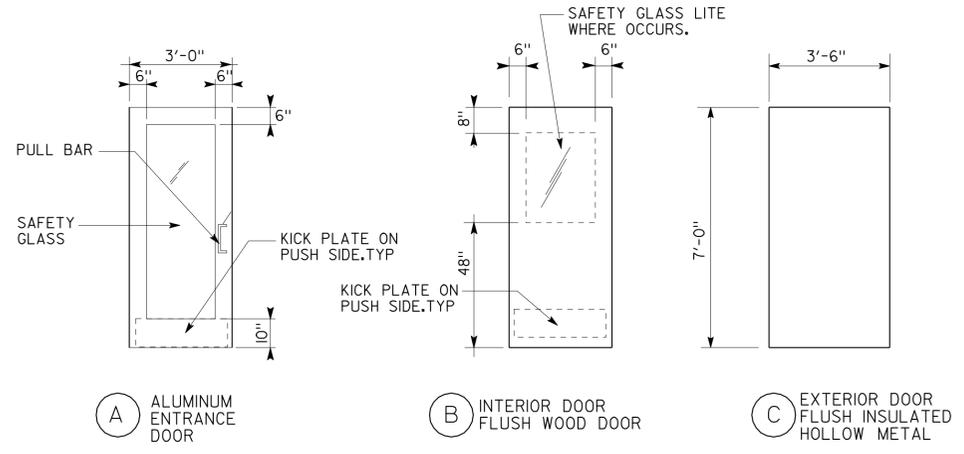
### WINDOW SCHEDULE

NO.	W X H	MAT	FIN	FRAME SIZE	DETAILS	NOTES
④					SEE DETAIL ④ A2-3	INSTALL ALUMINUM BLINDS
⑤	4'-0" X 5'-0"	ALUMINUM	CLEAR ANODIZED	3 5/8" X 1 21/32"		INSTALL ALUMINUM BLINDS
⑥	2'-6" X 2'-6"	ALUMINUM	CLEAR ANODIZED	3 5/8" X 1 21/32"		INTERIOR LITE OBSCURE GLAZING

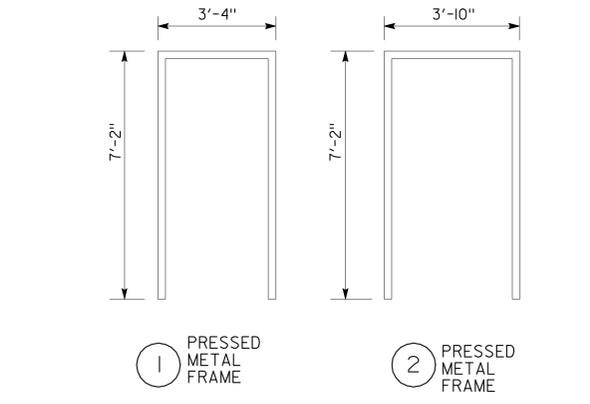
### COLOR & PAINT SCHEDULE

ITEMS	COATING SYSTEM	COLOR
METAL ROOFING	PREFINISHED	(FS-3018)
CEMENT PLASTER		(FS-3015)
EXPOSED STRUCTURAL STEEL	3	(FS-3018)
MISC METALS, FLASHING, GALVANIZED STEEL		(FS-3018)
STOREFRONT SYSTEM	PREFINISHED	CLEAR ANODIZED ALUM
INTERIOR DOOR PMF		(FS-37925)
WINDOW FRAMES	PREFINISHED	(FS-3018)
GYPSON BOARD	2 SEE INT ELEVATION	(FS-37925) SEE INT ELEVATION
VINYL COMP TILE		MARMORETTE COLOR # LP096 BY ARMSTRONG.
CERAMIC TILES FLOORING		4"X4" ARTISAN BROWN CD20 COLORBODY PORCELAIN DAL TILE
CERAMIC TILES WALL @ MEN & SHOWER		2"X2" GALAXY 6538 PERMATONES BY DAL TILE FS 36473
CERAMIC TILES WALL @ WOMEN		2"X2" FIREBRICK 6593 PERMATONES BY DAL TILE FS 21433
RESILIENT BASE		4" BLACK BROWN NO.523 BURKEBASE
FIBERGLASS REINFORCED PLASTIC PANELS		SANDSTONE TEXTURE 809-FAWN BROWN BY VARIETEX 0.99" CLASS C
METAL LOCKERS		SELECTED BY MFR STANDARD COLORS CLOSE TO FS 36473
PLASTIC LAMINATE	CABINETS : WILSON LAMINATE D96-60 COUNTER TOP: WILSON LAMINATE D327-60	
WINDOW WOOD SILL	4	DE 6212 CRIPS MUSLIM DUNN EDWARDS PAINT
GALV STEEL LOUVERS	1	FS 30260
INTERIOR WOOD DOORS	5	COLOR TO BE SELECTED FROM MFR STANDARD COLOR PALETTE BY THE ENGINEER

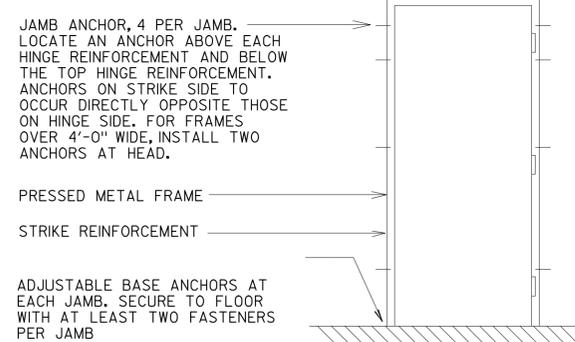
MANUFACTURERS' DESIGNATIONS LISTED ON THIS SCHEDULE ARE FOR REFERENCE ONLY AS EXAMPLES OF QUALITY, COLOR AND FINISH. OTHER SIMILAR MANUFACTURER'S PRODUCTS WHICH ARE EQUAL OR BETTER MAY BE SUBMITTED BY CONTRACTOR TO STATE FOR REVIEW AND APPROVAL.



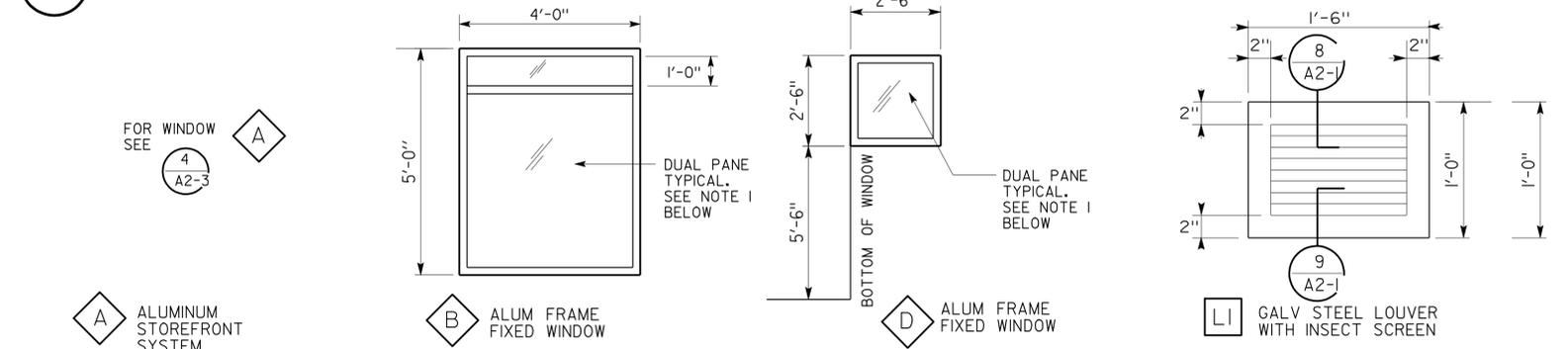
### 1 DOORS AND FRAMES TYPES



### 2 TYPICAL PMF ANCHORAGE



NOTE:  
1. COLOR SAMPLES MUST BE SUBMITTED TO THE ARCHITECT FOR FINAL APPROVAL.  
2. FOR SHOWER, MEN AND WOMEN FS COLOR SEE INT ELEVATION.



### 3 WINDOWS AND LOUVERS TYPES

NOTE 1: ALL GLAZING SHALL BE TEMPERED GLASS. EXTERIOR LITE SHALL BE 1/4" MIRRORPANE. INTERIOR LITE SHALL BE 1/4" BRONZE.

a1_02_sch.dgn TAEMWW IMPERIAL REV. 7/10 13-MAR-2013 07:35	DESIGN BY HASSAN AKHAVAN	CHECKED DON ALSEY	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 48M5710 POST MILE 51.53	LEE VINING MAINTENANCE STATION CREW ROOM BUILDING SCHEDULES, DOOR AND WINDOW TYPES	SHEET OF A1-2
	DETAILS BY HASSAN AKHAVAN	CHECKED DON ALSEY		UNIT 245 PROJECT NUMBER & PHASE 09120000291	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	51.5	16	68

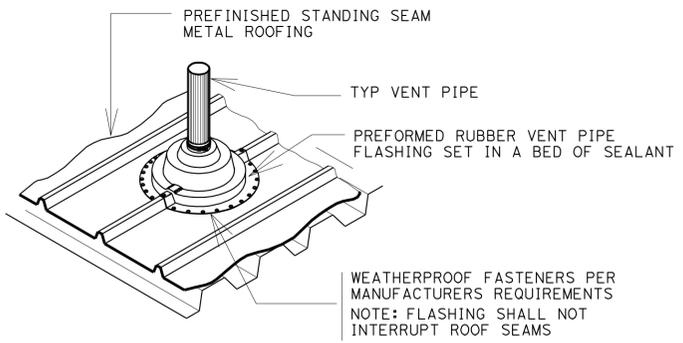
LICENSED ARCHITECT	DATE
<i>Hassan Akhavan</i>	3-11-13

PLANS APPROVAL DATE

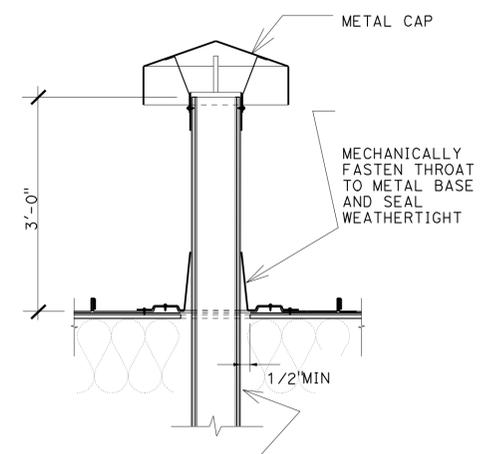
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<b>ACCESSIBILITY DESIGN APPROVAL STAMP</b> DOT / DES / OTA PROJECT ID <b>091200029</b> Reviewed by: <i>Y. A. Wang</i> Date: 03-05-13	<b>CALIFORNIA STATE FIRE MARSHAL APPROVED</b> Approved of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times. Reviewed by: <i>Ingrid P. Icasiano</i> INGRID P. ICASIANO Approval date: 11-27-12 CSFM FILE NO. 01-26-11-0009
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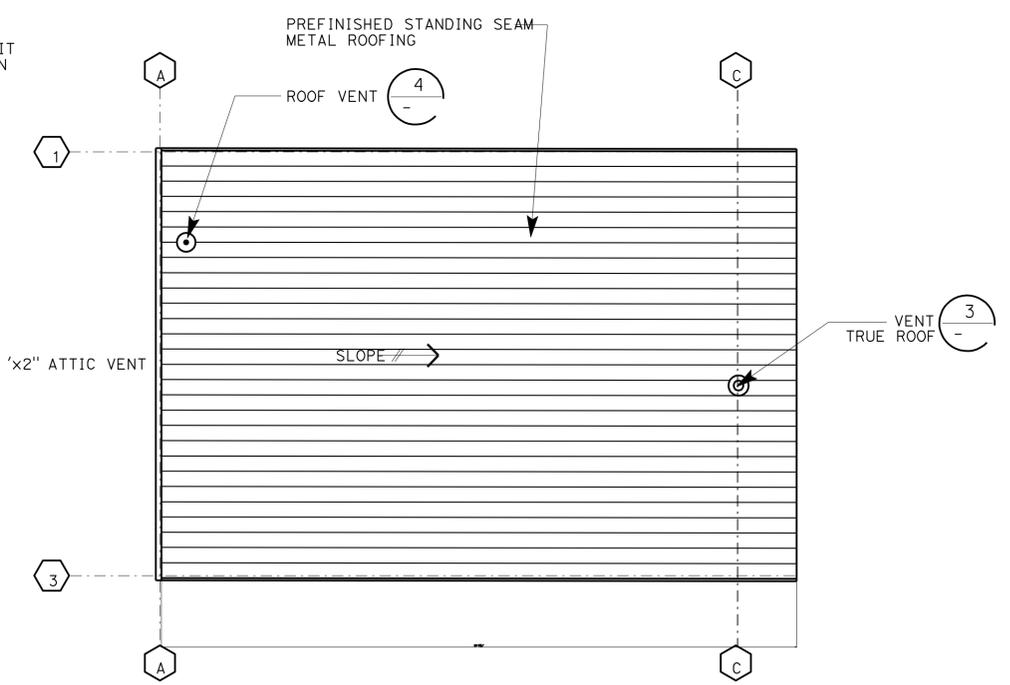
**4 ROOF VENT PIPE**  
NTS



**3 VENT TRUE ROOF**  
NTS  
NOTE: MAINTAIN 1/2" MIN FROM FLUE WALL AND INSUL.



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



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

a1_03_roofp1.dgn TAEMWW Imperial Rev. 7/10	DESIGN BY Hassan Akhavan	CHECKED Don Alsey	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 48M5710	LEE VINING MAINTENANCE STATION CREW ROOM BUILDING	SHEET
	DETAILS BY Hassan Akhavan	CHECKED Don Alsey		PROJECT NUMBER & PHASE 245 09120000291	POST MILE 51.53		REFLECTED CEILING PLAN, ROOF PLAN
13-MAR-2013 07:35	QUANTITIES BY	CHECKED	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF 12 63

13-MAR-2013 07:35

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	51.5	17	68

LICENSED ARCHITECT	DATE
<i>Hassan Akhavan</i>	3-11-13

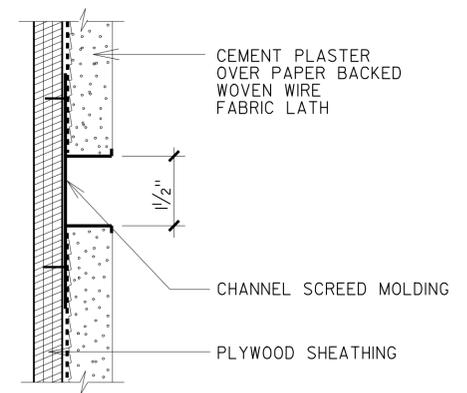
PLANS APPROVAL DATE

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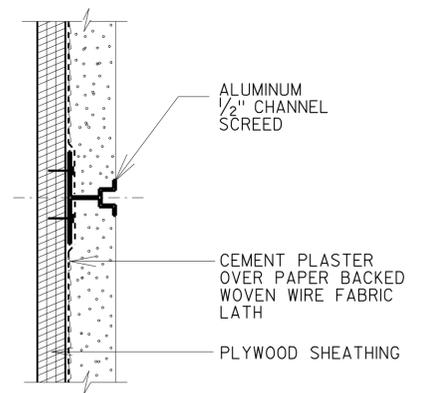


ACCESSIBILITY DESIGN APPROVAL STAMP DOT / DES / OTA	CALIFORNIA STATE FIRE MARSHAL APPROVED
PROJECT ID <b>091200029</b>	Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
Reviewed by: <i>Y. A. WANG</i> Date: 03-05-13	Reviewed by: <i>Ingrid P. Casiano</i> INGRID P. CASIANO Approval date: 11-27-12

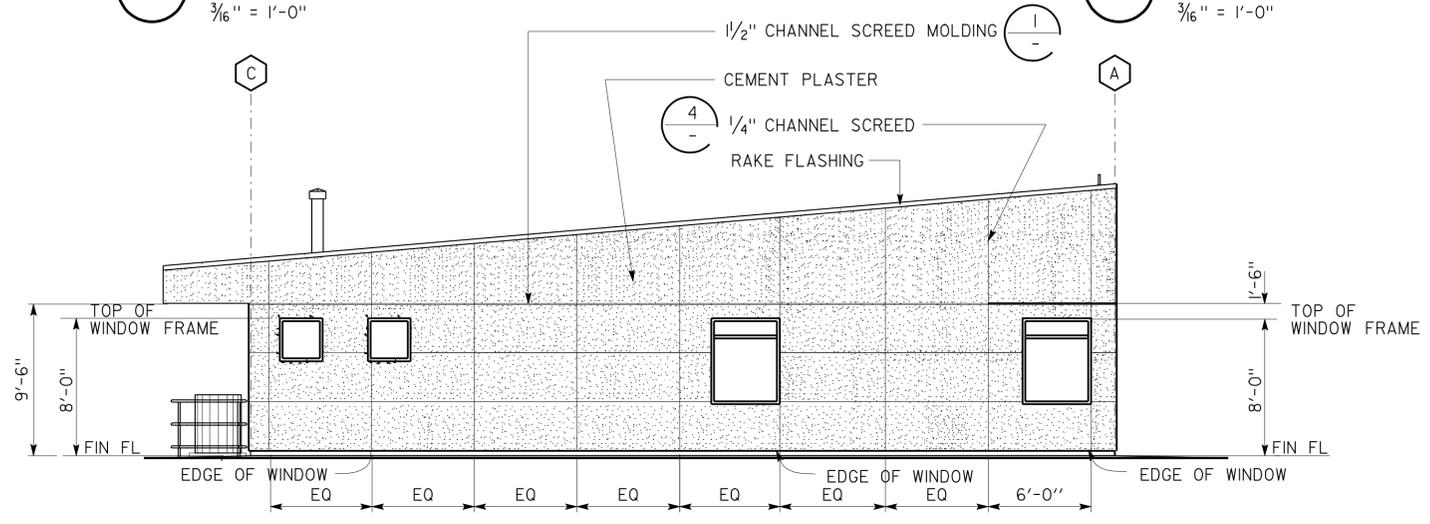
CSFM FILE NO. 01-26-11-0009



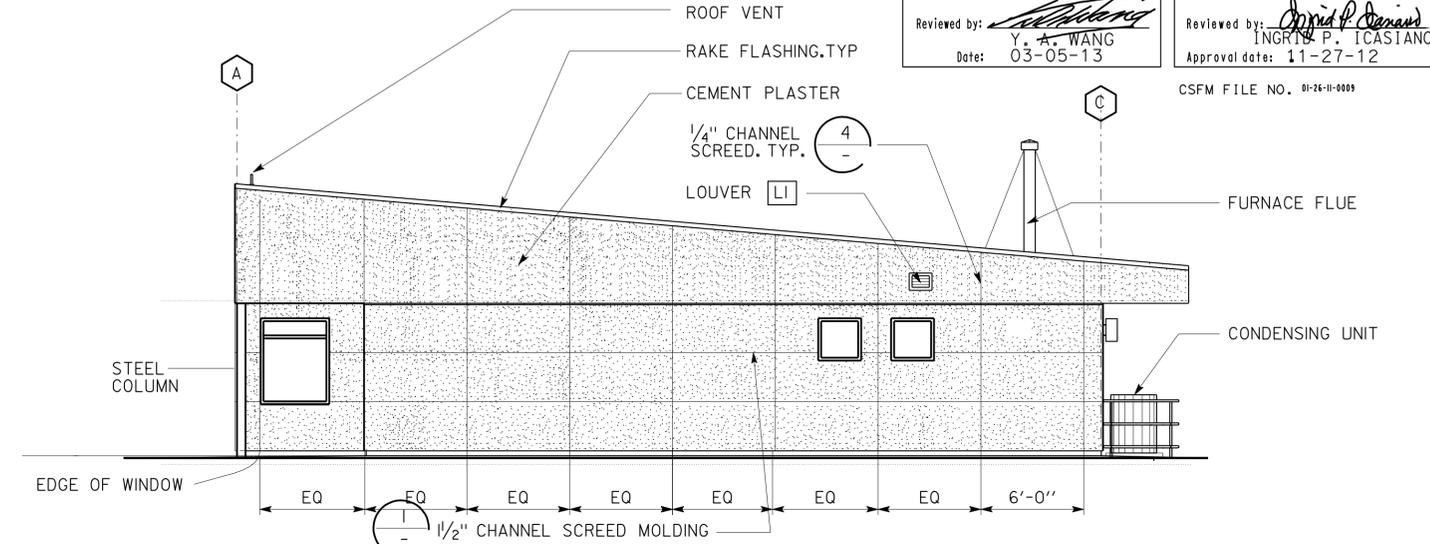
**1 CHANNEL SCREED MOLDING**



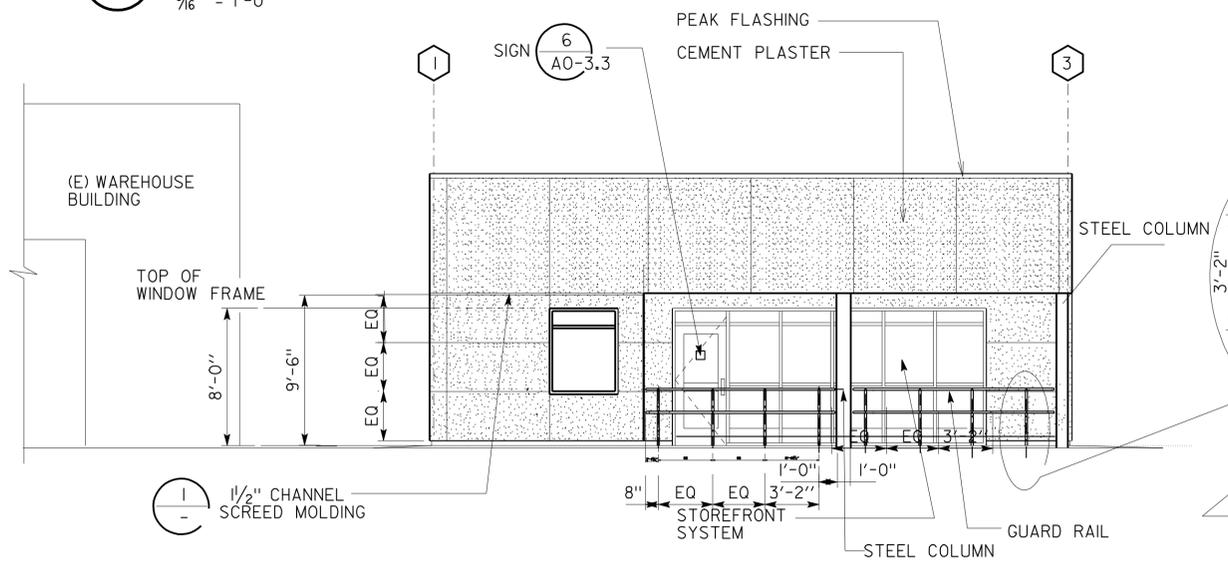
**4 CHANNEL SCREED DETAIL**



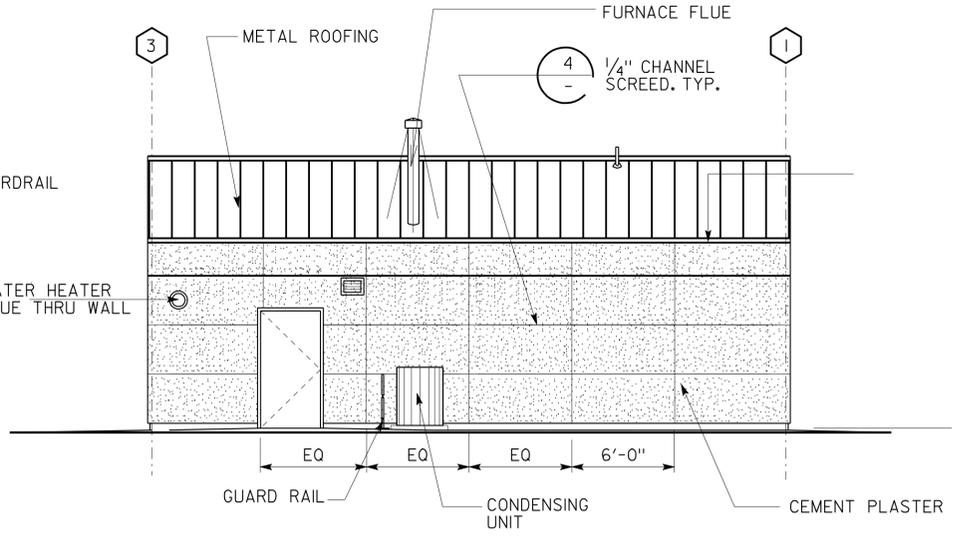
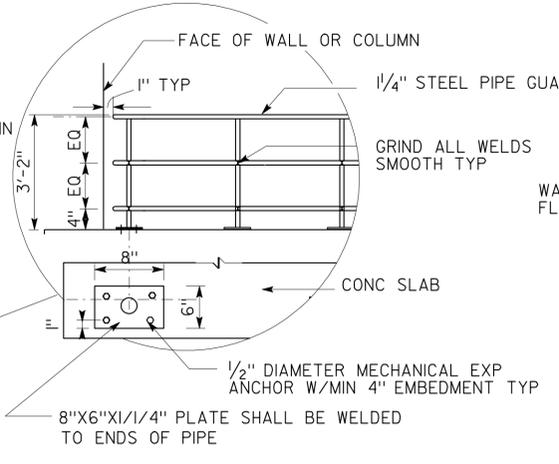
**2 NORTH ELEVATION**



**5 SOUTH ELEVATION**



**3 WEST ELEVATION**



**6 EAST ELEVATION**

a1_04_elev.dgn TAEMWW Imperial Rev. 7/10 13-MAR-2013 07:36	DESIGN BY Hassan Akhavan CHECKED Don Alsey	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 48M5710 POST MILE 51.53	LEE VINING MAINTENANCE STATION CREW ROOM BUILDING BUILDING ELEVATIONS	SHEET OF A1-4	
	DETAILS BY Hassan Akhavan CHECKED Don Alsey		UNIT PROJECT NUMBER & PHASE 245 09120000291	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
	QUANTITIES BY Hassan Akhavan CHECKED Don Alsey		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3				

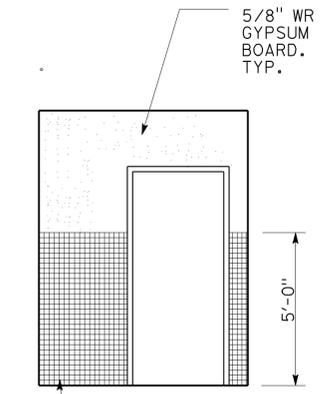
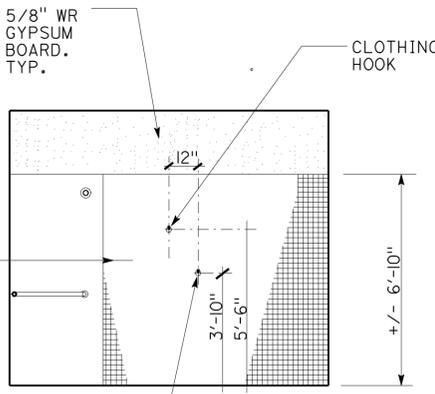
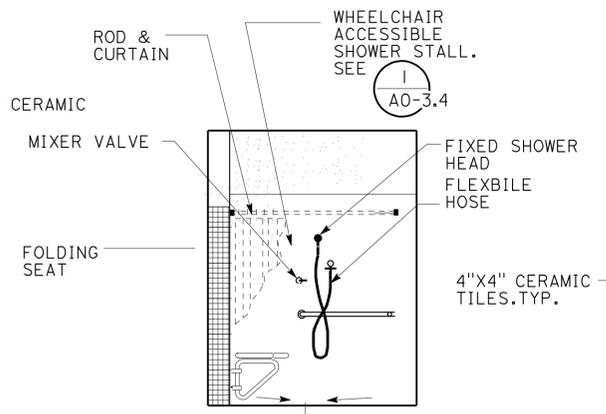
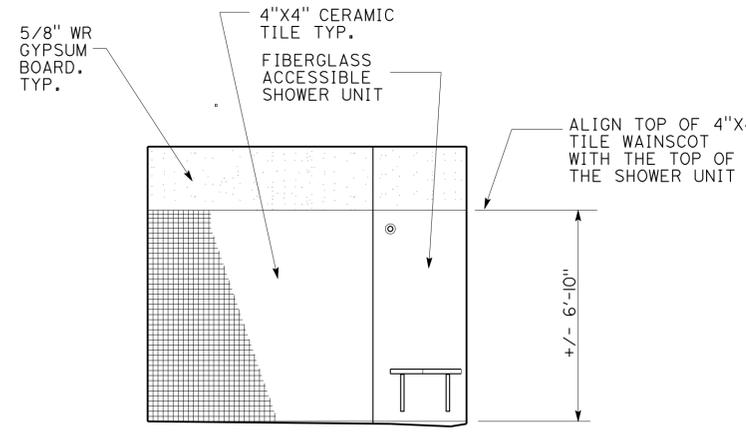


DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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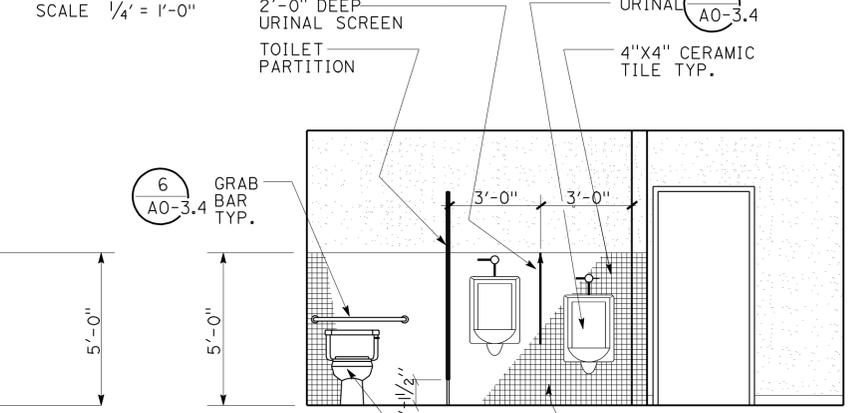
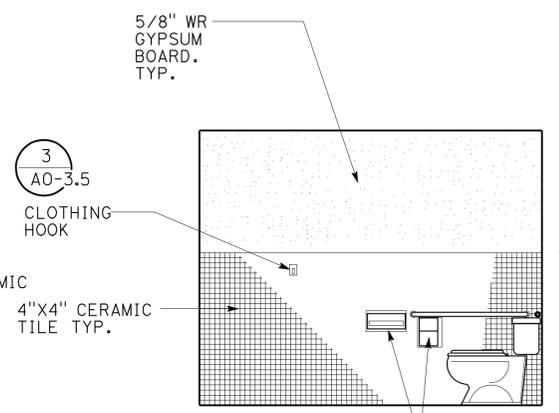
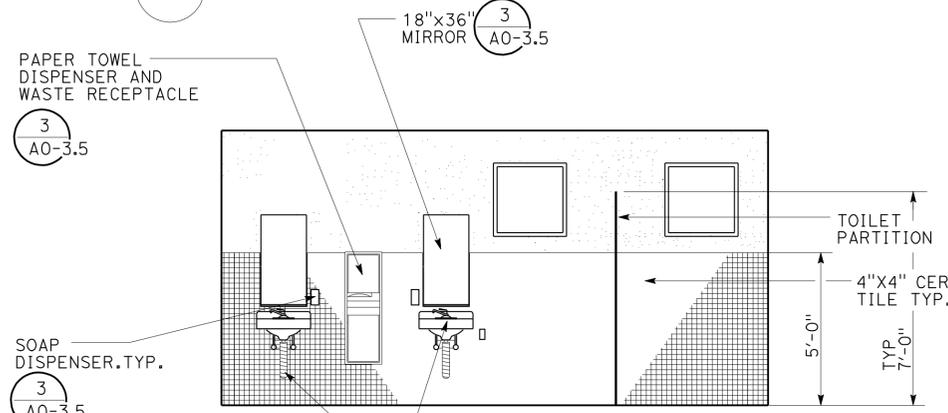
  

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3-11-13	
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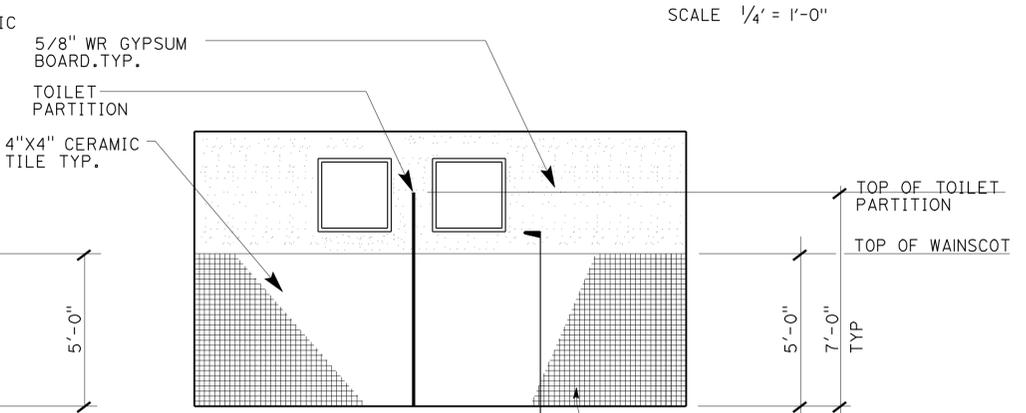
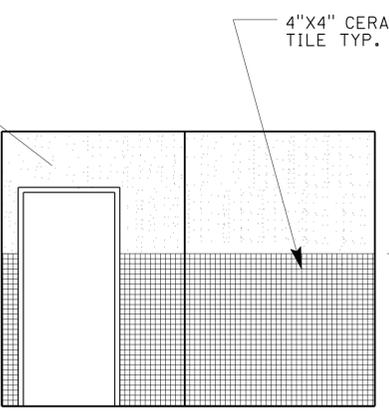
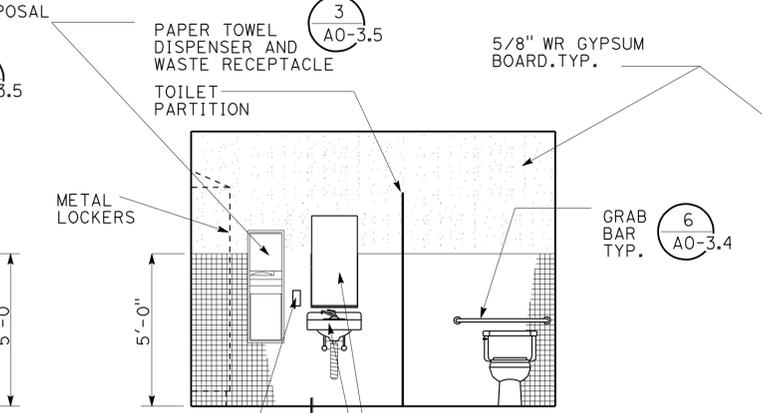
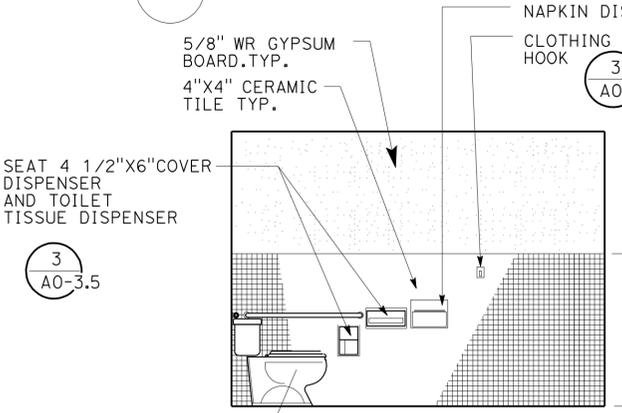
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**1 SHOWER ROOM**



**1 MEN**

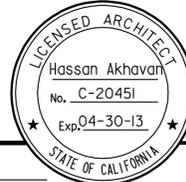


**1 WOMEN**

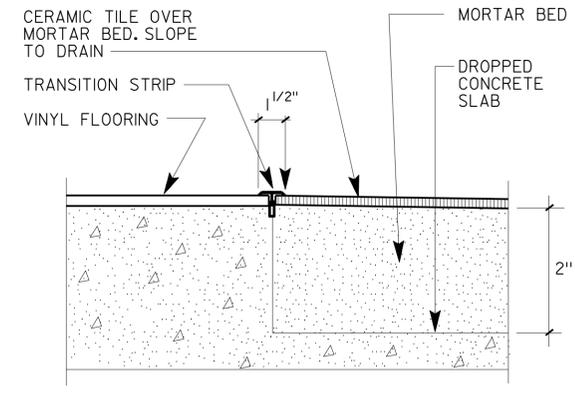
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a1_06_intelev.DGN TAEMWW Imper1al Rev. 7/10 13-MAR-2013 07:36	CSFM FILE NO.	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 245 09120000291	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) SHEET OF 14 63

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	51.5	20	68

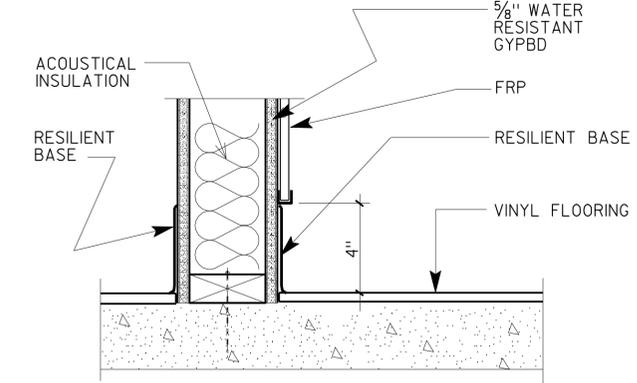
  

	
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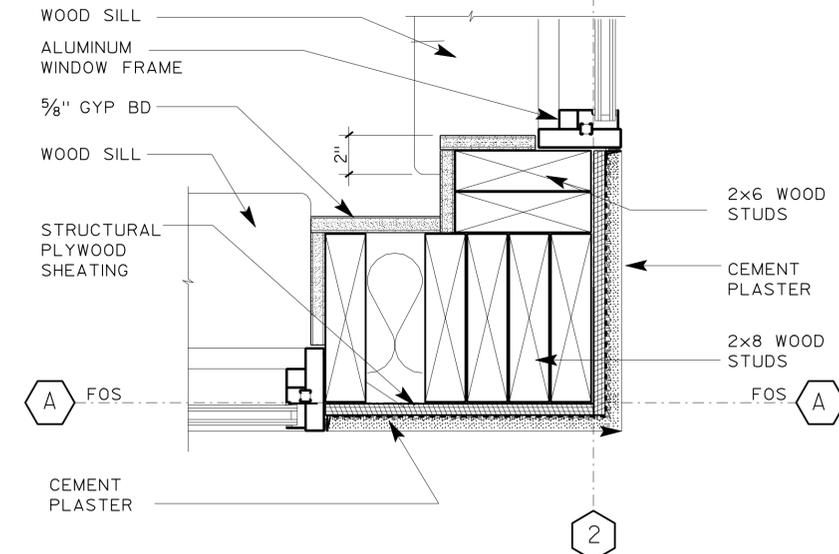
<b>ACCESSIBILITY DESIGN APPROVAL STAMP</b> DOT / DES / OTA PROJECT ID <b>091200029</b> Reviewed by:  Y. A. WANG Date: 03-05-13	<b>CALIFORNIA STATE FIRE MARSHAL APPROVED</b> Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times. Reviewed by:  INGRID P. ICASIANO Approval date: 11-27-12 CSFM FILE NO. 01-26-11-0009
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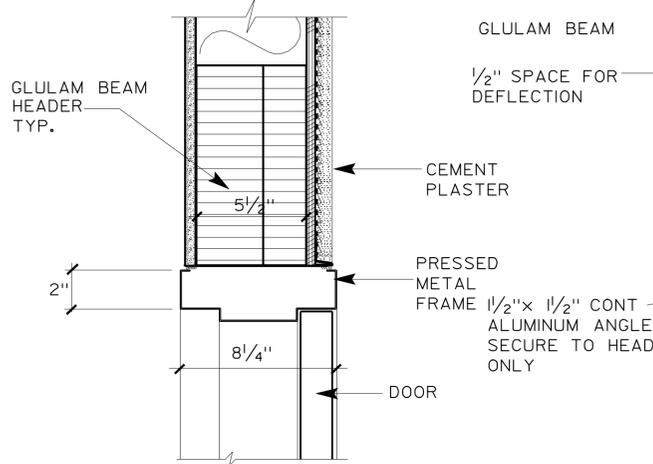
**1 FLOORING DETAIL**  
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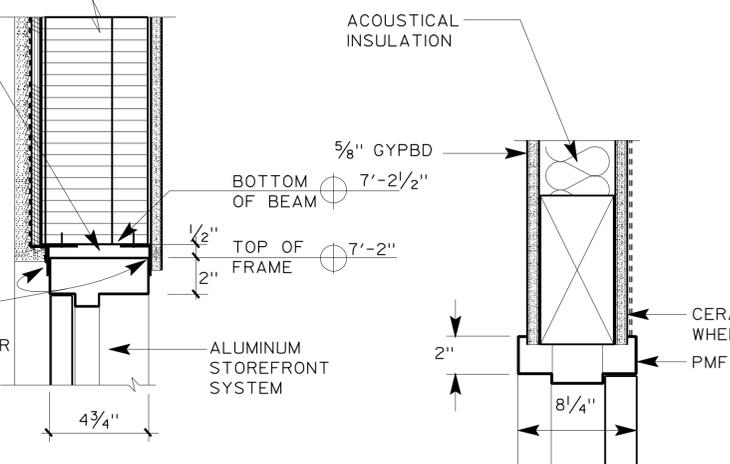
**2 WALL BASE DETAIL**  
NTS



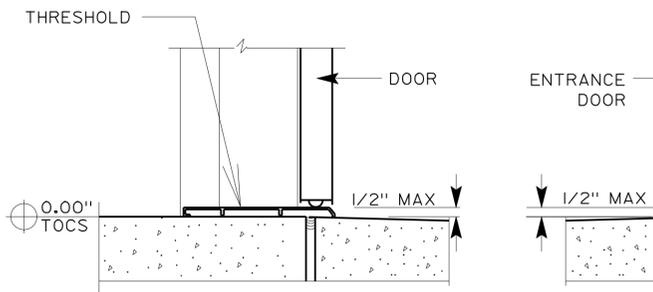
**3 WALL & WINDOW JAMB DETAIL**  
NTS



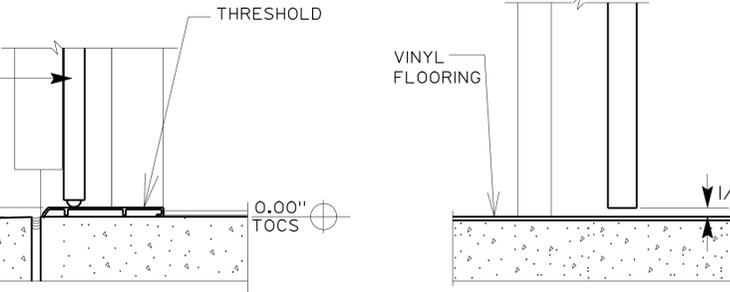
**a HEAD/JAMB SIMILAR**



**a HEAD/JAMB SIMILAR**



**b THRESHOLD**



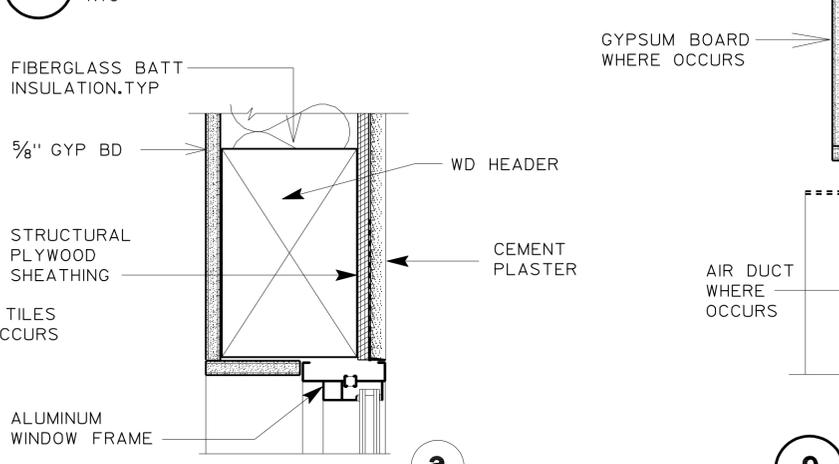
**b THRESHOLD**

**4 EXTERIOR DOOR**  
NTS

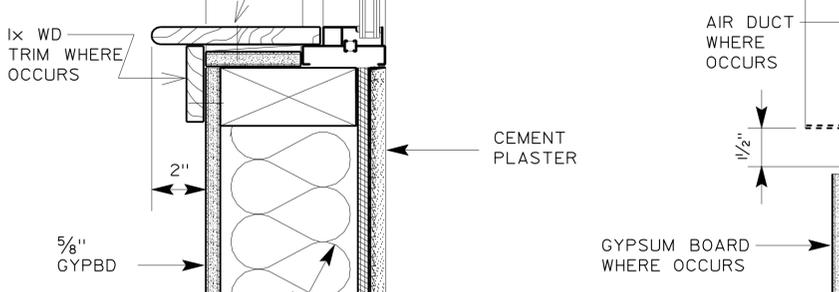
**5 STOREFRONT ENTRANCE DOOR**  
NTS

DESIGN	BY Hassan Akhavan	CHECKED Don Alsey
DETAILS	BY Hassan Akhavan	CHECKED Don Alsey
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 48M5710	<b>LEE VINING MAINTENANCE STATION CREW ROOM BUILDING</b> DETAILS SHEET <b>A2-1</b>
DEPARTMENT OF TRANSPORTATION	ARCHITECTURAL AND STRUCTURAL DESIGN	POST MILE	

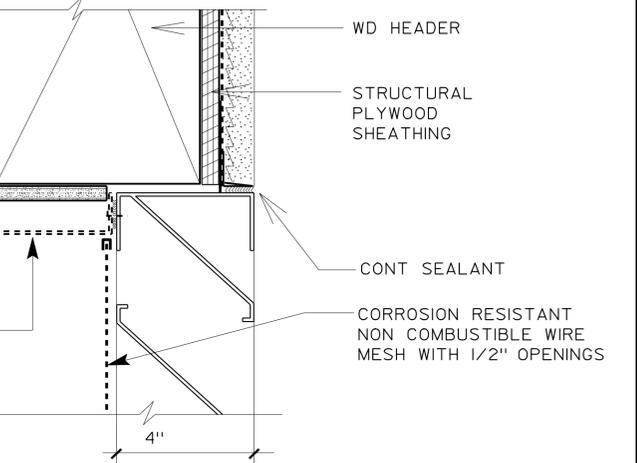


**a HEAD/JAMB SIMILAR**

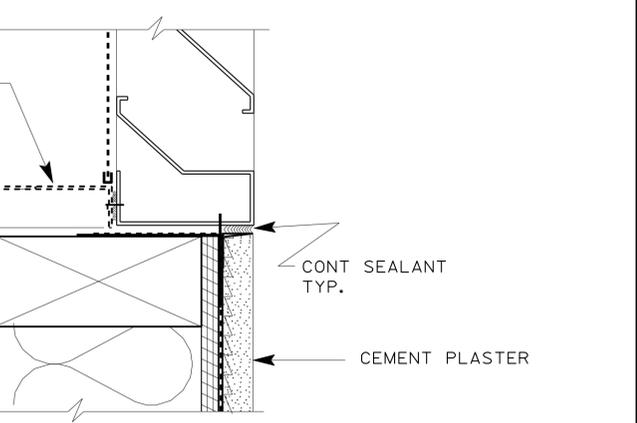


**b SILL**

**7 WINDOW DETAILS**  
NTS



**9 LOUVER HEAD DETAIL**  
NTS  
SILL & JAMB SIM



**8 LOUVER SILL DETAIL**  
NTS  
JAMB & HEAD SIMILAR

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	51.5	21	68

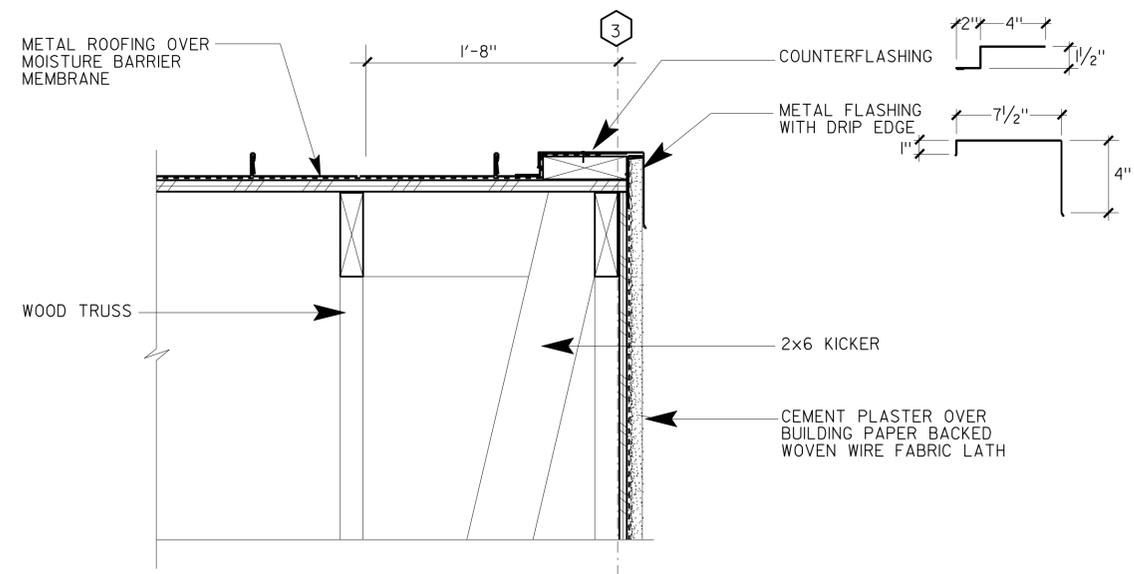
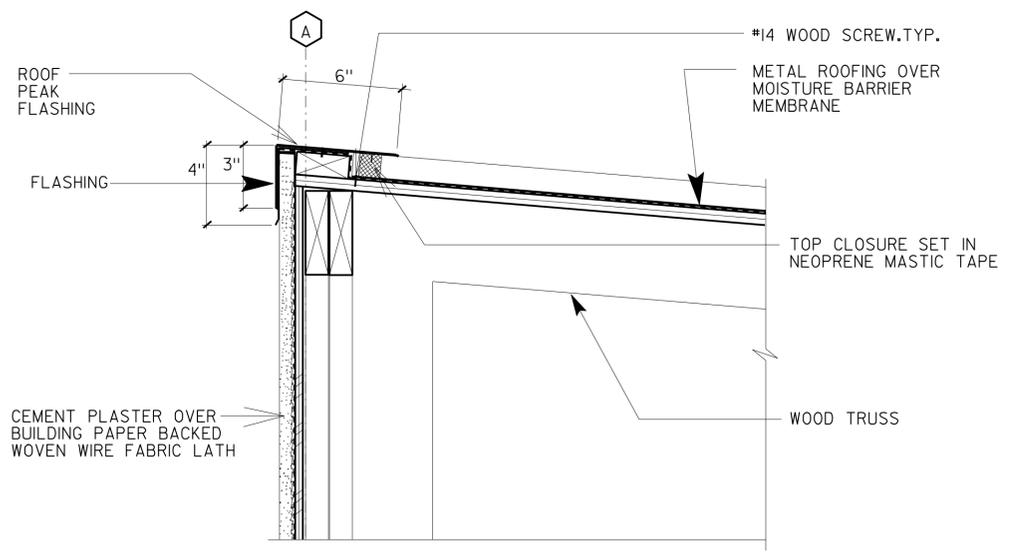
LICENSED ARCHITECT  
 Hassan Akhavan  
 No. C-20451  
 Exp. 04-30-13  
 STATE OF CALIFORNIA

3-11-13  
 PLANS APPROVAL DATE  
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**ACCESSIBILITY DESIGN APPROVAL STAMP**  
 DOT / DES / OTA  
 PROJECT ID: **0912000029**  
 Reviewed by: *[Signature]*  
 Y. A. WANG  
 Date: 03-05-13

**CALIFORNIA STATE FIRE MARSHAL APPROVED**  
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.  
 Reviewed by: *[Signature]*  
 INGRID P. ICASIANO  
 Approval date: 11-27-12

CSFM FILE NO. 01-26-11-0009

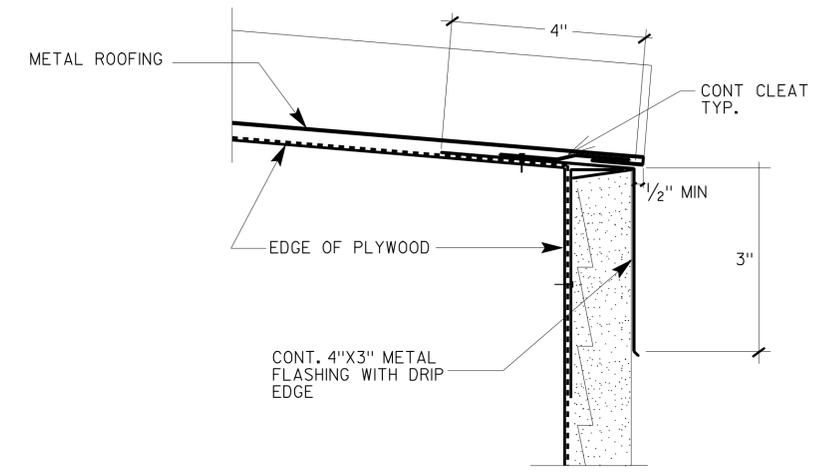


**1 PEAK FLASHING DETAIL**

NTS

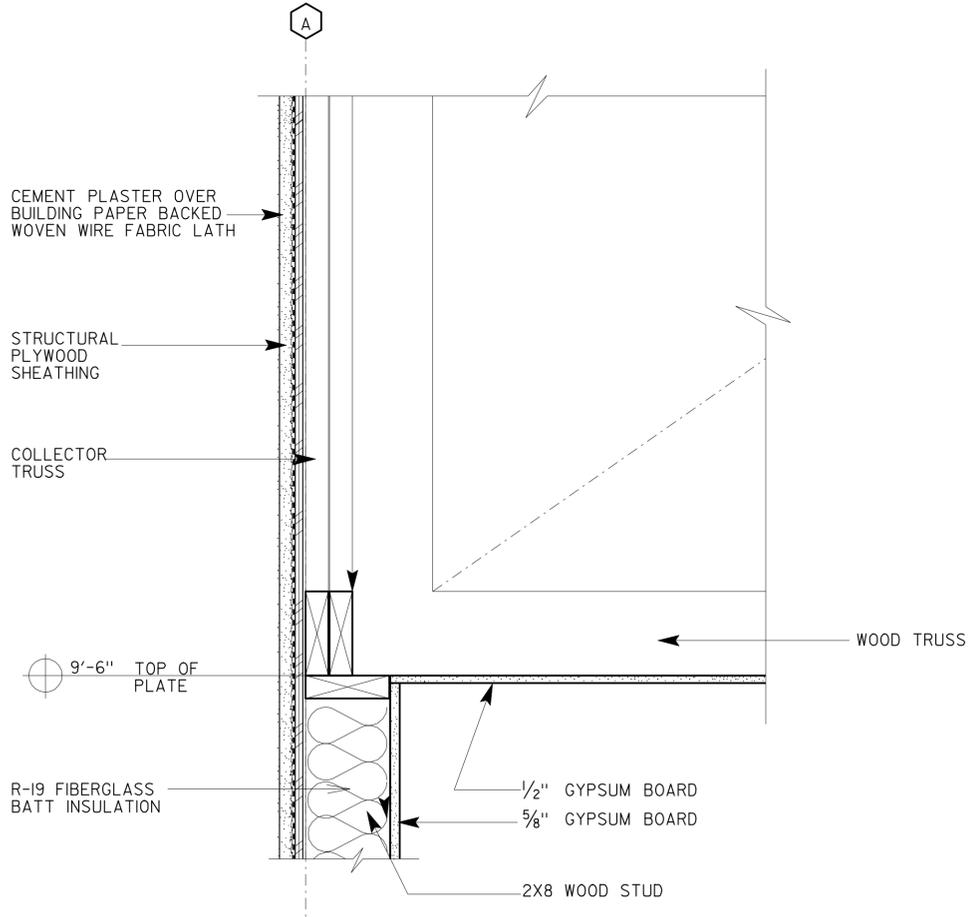
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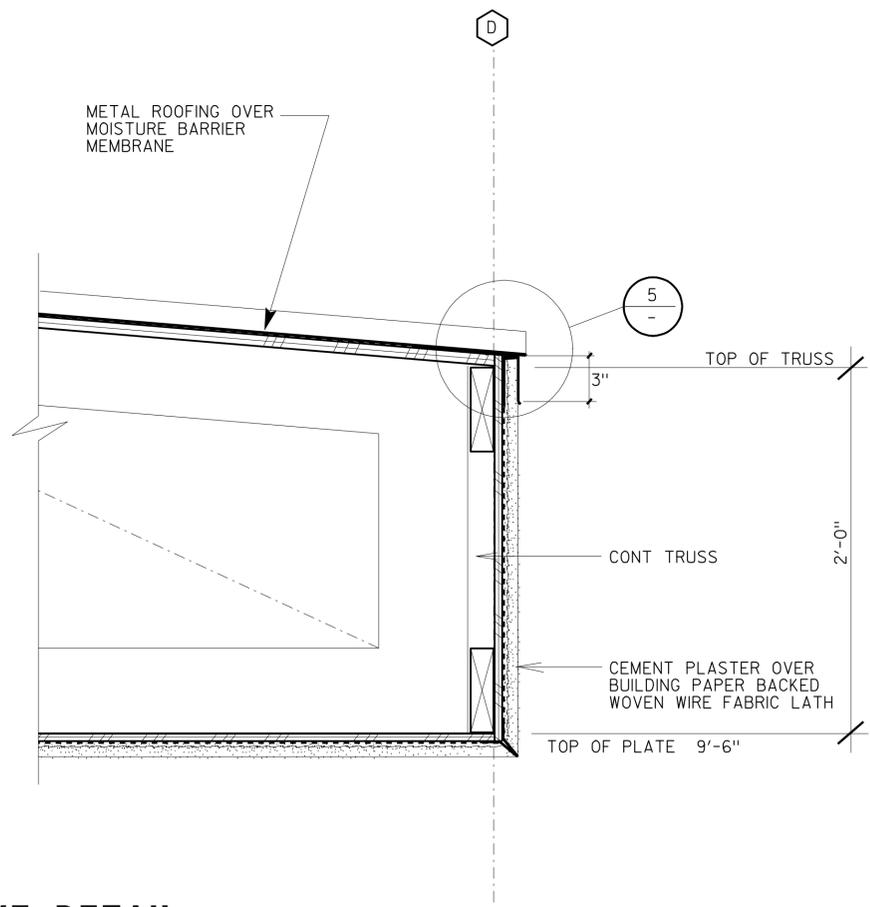
**5 CLEAT DETAIL**

NTS



**2 WALL / ROOF DETAIL**

NTS



**4 EAVE DETAIL**

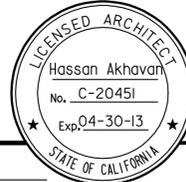
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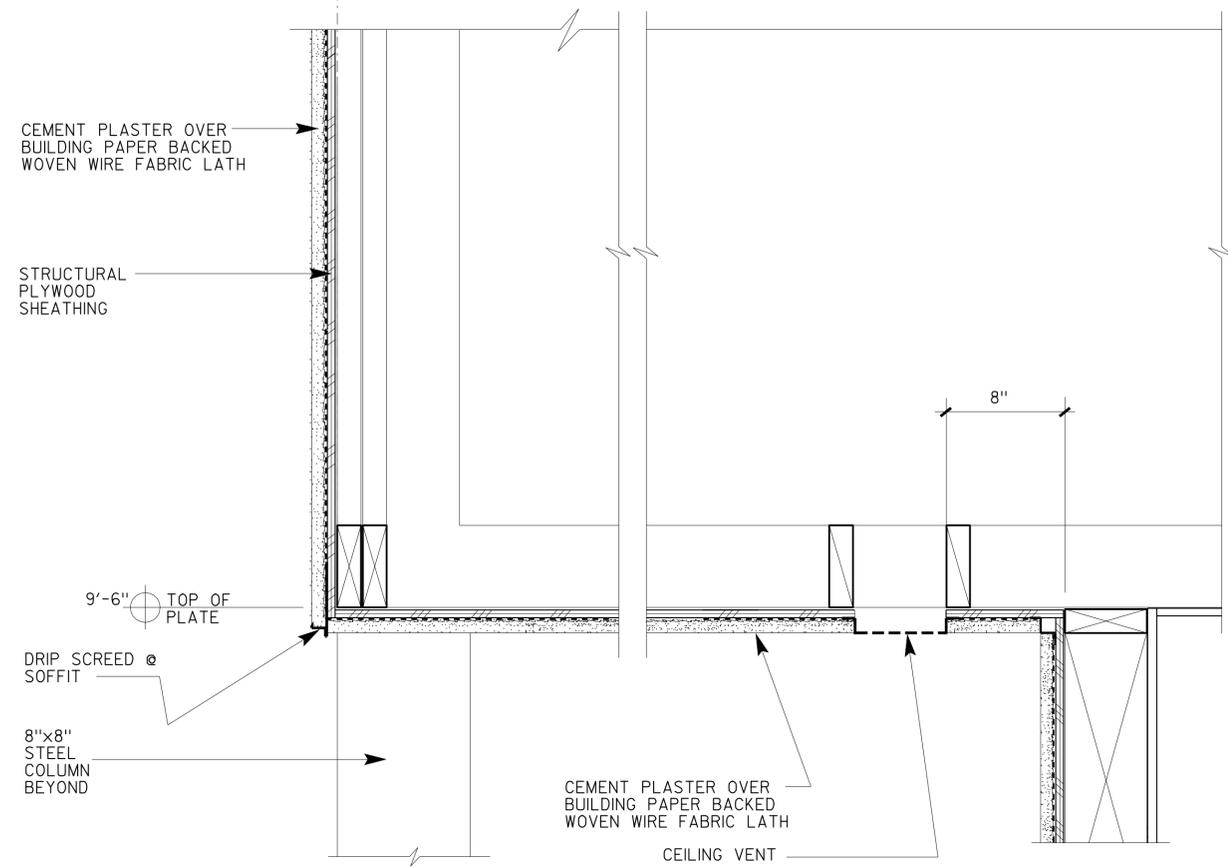
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	DETAILS	BY Hassan Akhavan	CHECKED Don Alsey			48M5710		
13-MAR-2013 07:36	QUANTITIES	BY	CHECKED	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT PROJECT NUMBER & PHASE	245 09120000291	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF 18 60
CSFM FILE NO.			0 1 2 3			DISREGARD PRINTS BEARING EARLIER REVISION DATES		- -07

13-MAR-2013 07:36

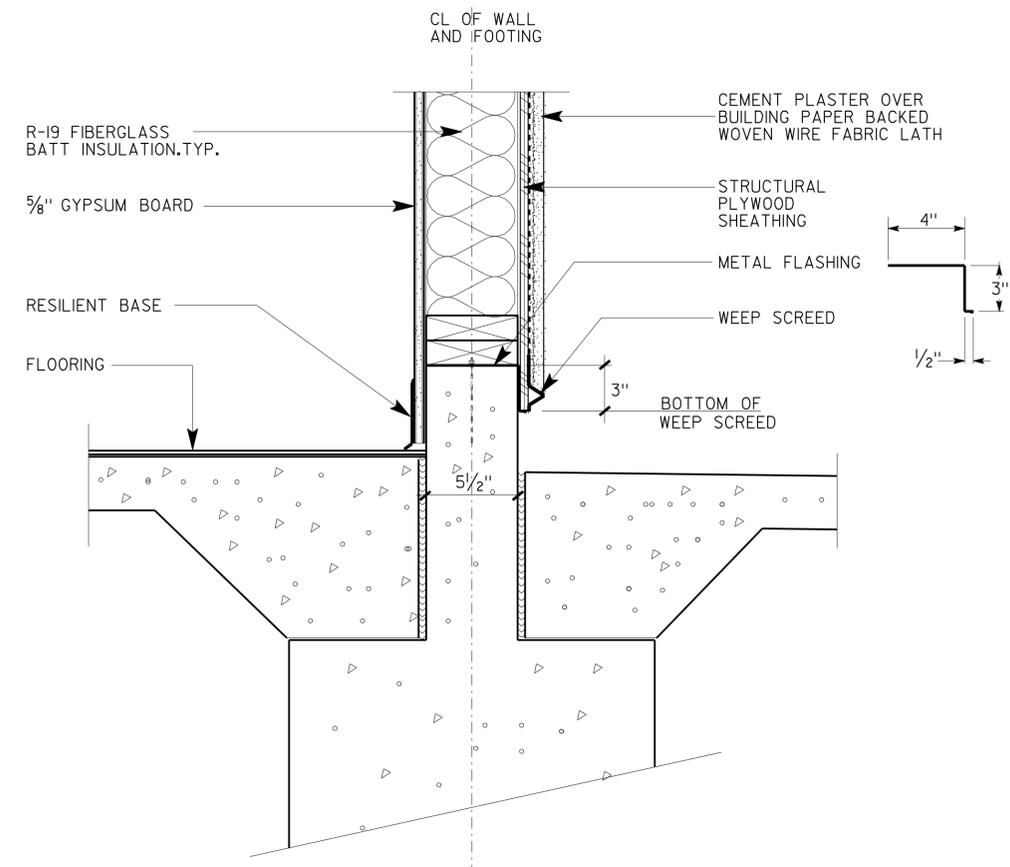
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	51.5	22	68

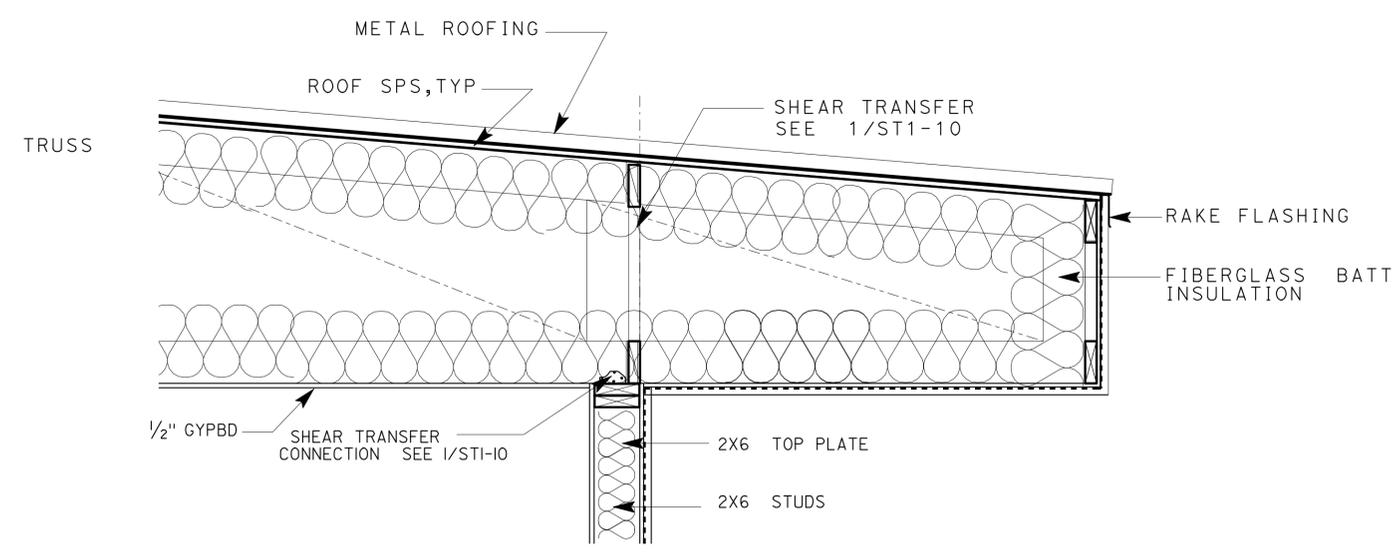
	
LICENSED ARCHITECT	DATE
3-11-13	
PLANS APPROVAL DATE	
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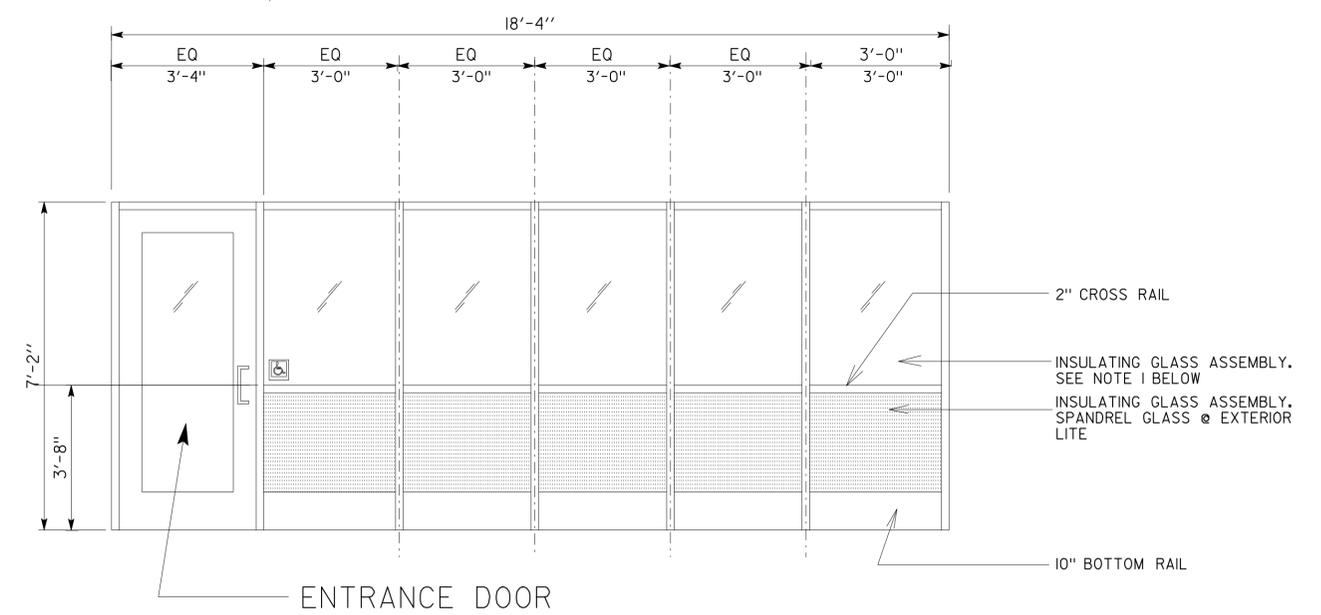
**1 CEILING DETAIL**  
2" = 1'-0"



**3 EXTERIOR WALL SECTION**  
2" = 1'-0"



**2 CEILING DETAIL**  
2" = 1'-0"



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

NOTE 1: ALL GLAZING SHALL BE TEMPERED GLASS. EXTERIOR LITE SHALL BE 1/4" MIRRORPANE. INTERIOR LITE SHALL BE 1/4" BRONZE.

a2_03_det.dgn TAEMWW Imperial Rev. 7/10 13-MAR-2013 07:37	DESIGN BY Hassan Akhavan	CHECKED Don Alsey	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 48M5710	LEE VINING MAINTENANCE STATION CREW ROOM BUILDING DETAILS	SHEET A2-3	
	DETAILS BY Hassan Akhavan	CHECKED Don Alsey		UNIT PROJECT NUMBER & PHASE 245 09120000291	POST MILE 51.53		REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
	QUANTITIES BY	CHECKED		DISREGARD PRINTS BEARING EARLIER REVISION DATES	- 07			

13-MAR-2013 07:37

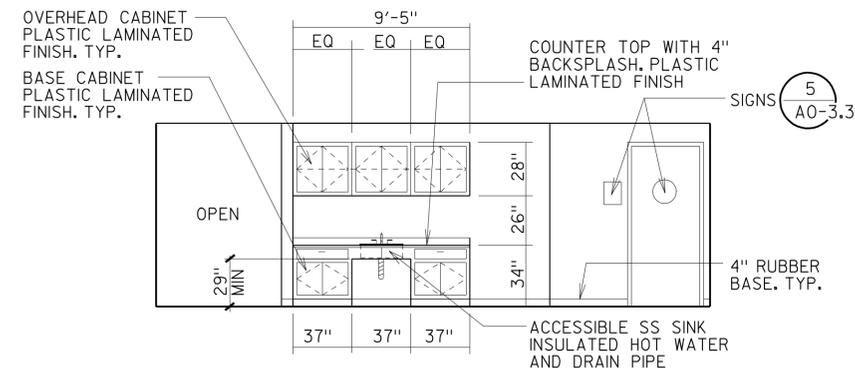
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09	Mno	395	51.5	23	68

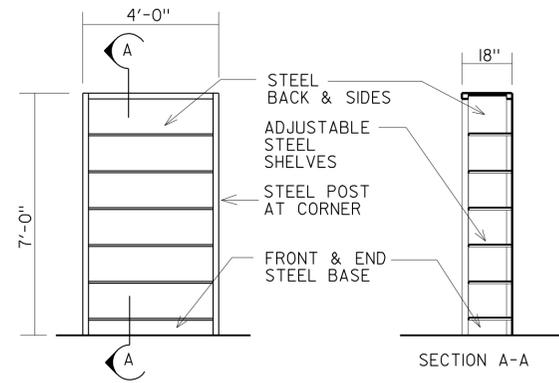
LICENSED ARCHITECT	<i>[Signature]</i>	DATE	3-11-13
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PLANS APPROVAL DATE

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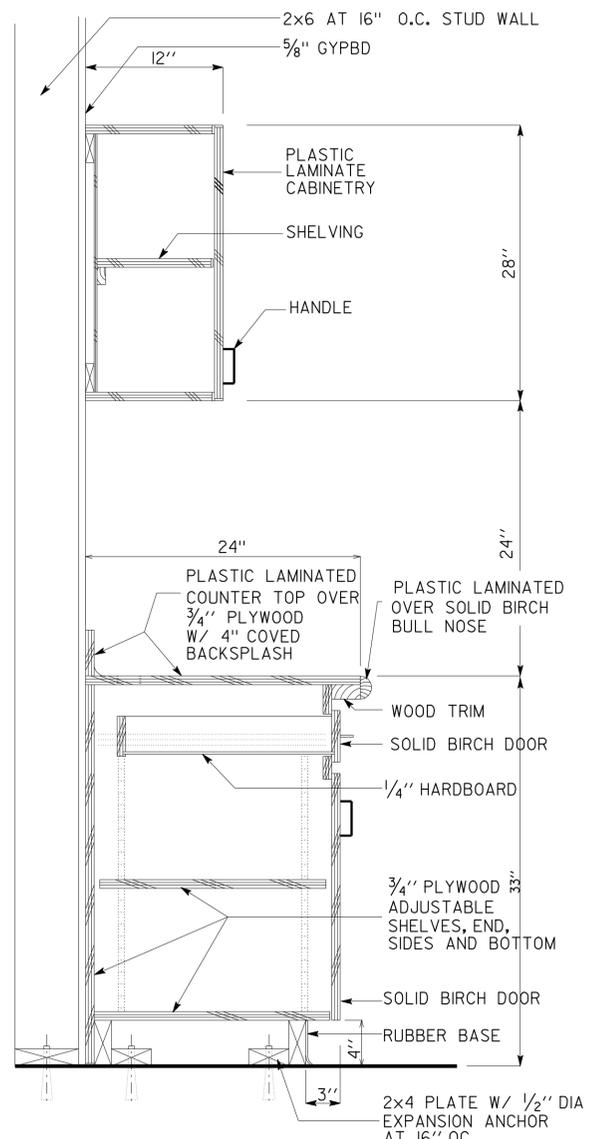
**2 INTERIOR ELEVATION**  
 1/4" = 1'-0"



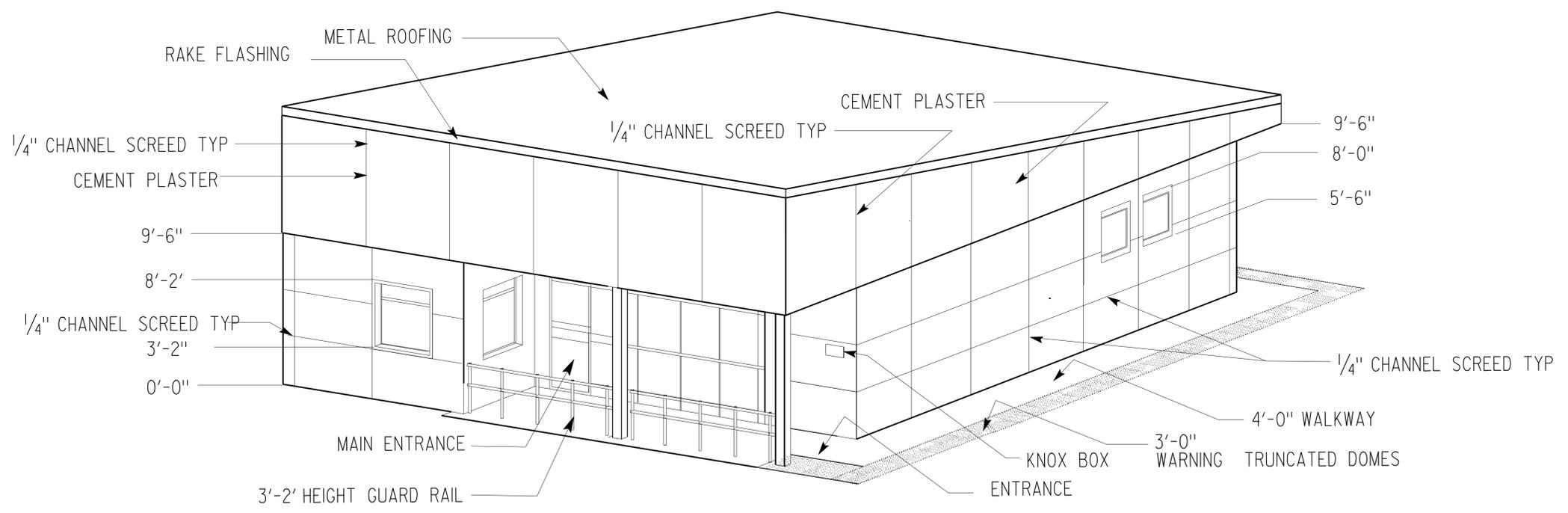
**3 SHELVING**  
 NTS

<b>ACCESSIBILITY DESIGN APPROVAL STAMP</b> DOT / DES / OTA PROJECT ID <b>091200029</b> Reviewed by: <i>[Signature]</i> Y. A. WANG Date: 03-05-13	<b>CALIFORNIA STATE FIRE MARSHAL APPROVED</b> Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times. Reviewed by: <i>[Signature]</i> INGRID P. ICASIANO Approval date: 11-27-12
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CSFM FILE NO. 01-26-11-0009



**1 CREW ROOM CABINET**  
 SCALE 4" = 1'-0"



**ISOMETRIC VIEW**  
 NTS  
 MECHANICAL COMPONENTS ARE NOT SHOWN

a2_04.dgn TAEMWW Imper1al Rev. 7/10	13-MAR-2013 07:37	DESIGN BY Hassan Akhavan	CHECKED Don Alsey	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 48M5710	LEE VINING MAINTENANCE STATION CREW ROOM BUILDING	SHEET A2-4
		DETAILS BY Hassan Akhavan	CHECKED Don Alsey			POST MILE 51.53		
		QUANTITIES BY	CHECKED	UNIT PROJECT NUMBER & PHASE 245 09120000291		REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF

DISREGARD PRINTS BEARING EARLIER REVISION DATES -07

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	51.5	24	68

<i>Sean Samuel</i> REGISTERED CIVIL ENGINEER	11-14-12 DATE	
3-11-13 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	LVL	LAMINATED VENEER LUMBER
BN	BOUNDARY NAILING	m	METER
Btm	BOTTOM	Max	MAXIMUM
CB	CARRIAGE BOLT	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	P	PITCH
Dia	DIAMETER	PDF	POWER DRIVEN FASTENER
DIP	DUSTILE IRON PIPE	Plwd	PLAWOOD
DN	DIAMETER NOMINAL	PT	PRESSURE TREATED
do	DITTO	PW	PUDDLE WELD
(E)	EXISTING	PWB	PREFABRICATED WOOD I BEAM
Ea	EACH	RCP	REINFORCED CONCRETE PIPE
EL	ELEVATION	Reinf	REINFORCED, REINFORCING
Elec	ELECTRICAL	Req'd	REQUIRED
Embed	EMBEDMENT	SDSTS	SELF DRILL, SELF TAP SCREW
EN	EDGE NAIL	Sim	SIMILAR
Eq	EQUAL	SPS	STRUCTURAL PLYWOOD SHEATHING
Exp	EXPANSION	Sq	SQUARE
FDGM	FREE DRAINING GRANULAR MATERIAL	Stagg	STAGGERED
FG	FINISH GRADE	Std	STANDARD
FL	FLOW LINE	SW	STUD WELD
Fir	FLOOR	Sym	SYMMETRICAL
FN	FACE (FIELD) NAIL	T&G	TONGUE-AND-GROOVE
FOC	FACE OF CONCRETE	TN	TOE NAIL
FOM	FACE OF MASONRY	TS	TUBE STEEL
FOS	FACE OF STUD	Typ	TYPICAL
Ftg	FOOTING	UON	UNLESS OTHERWISE NOTED
Ga	GAGE	Vert	VERTICAL
Galv	GALVANIZED		
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		STRUCTURE BACKFILL
	LENGTH SHEARWALL SCHEDULE SYMBOL REFERENCE		STRUCTURE EXCAVATION
	GLUE LAMINATED MEMBER SECTION		ORIGINAL GROUND
	NORTH ARROW		LIMITS OF STRUCTURE BACKFILL (SHOWN ON PLAN VIEWS)
	PARTIAL SECTION CUT		FREE DRAINING GRANULAR MATERIAL
	FULL SECTION CUT		BOTTOM OF FOOTING
	REVISION CALLOUT		ELEVATION OR WORKING POINT
	GRID LINE INDICATOR		EXISTING FEATURES
	CENTER LINE		HOLDOWN, Typ (MANUFACTURERS ARE THOSE NOTED IN THE ORDER SHOWN)
	STATION LINE		FRAME CONNECTOR (MANUFACTURERS ARE THOSE NOTED IN THE ORDER SHOWN)
	STEEL PLATE		DETAIL NUMBER OR NOTE NUMBER ADDITIONAL REFERENCE (IF REQUIRED) SHEET NUMBER
	DIAMETER		
	SQUARE		

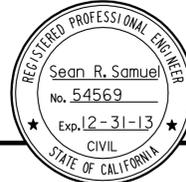
NOTE: SPECIFIC DETAILS OR NOTES ON OTHER SHEETS SHALL PREVAIL OVER STANDARD DETAILS AND NOTES ON THIS SHEET

STANDARD DRAWING				STATE OF CALIFORNIA		DIVISION OF ENGINEERING SERVICES		BRIDGE NO.	LEE VINING MAINTENANCE STATION				SHEET	
FILE NO. XS-25-0	DESIGN BY <i>Sean Samuel</i>	CHECKED <i>Joe Glendon</i>	APPROVED <i>R.C. Travis</i>	CALIFORNIA		ARCHITECTURAL		48M5710	CREW ROOM BUILDING				ST-1	
DRAWING DATE 1-04	DETAILS BY <i>Peter F. von Sawoy II</i>	CHECKED <i>Sean Samuel</i>	DESIGN SUPERVISOR	DEPARTMENT OF TRANSPORTATION		AND STRUCTURAL DESIGN		POST MILE	LEGEND					
SUBMITTED BY <i>Sean Samuel</i> , DESIGN ENGINEER				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT PROJECT NUMBER & PHASE		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)				SHEET OF
TAEMWW Imperial Rev. 7/10				0 1 2 3		3599 09120000291		1-16-04 04-27-12 07-30-12						EA

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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	51.5	25	68

<i>Sean Samuel</i> REGISTERED CIVIL ENGINEER	11-14-12 DATE	
3-11-13 PLANS APPROVAL DATE		

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**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 3/8" 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 WHPA, 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:
 

2x4 Studs	Construction Grade
2x6 & 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 2x in thickness and the full depth of the joist.
- Joists and roof rafters 1'-0" or deeper shall have full depth 2x thick solid blocking at 8'-0" maximum spacing.
- Provide 2x 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 Engineers 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 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 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.
  - Cooler nail, parker nail or wallboard nail with a flat or concave head and diamond point at all edges and intermediate supports (field nailing)

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

FILE NO. XS-25-5	DESIGN BY <i>Sean Samuel</i>	CHECKED BY <i>Joe Gandy</i>	APPROVED BY <i>R.E. Travis</i>	STATE OF CALIFORNIA	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 48M5710	LEE VINING MAINTENANCE STATION CREW ROOM BUILDING	SHEET ST-1A
DRAWING DATE 1-04	DETAILS BY <i>Peter von Savoy, II</i>	CHECKED BY <i>Sean Samuel</i>	DESIGN SUPERVISOR	DEPARTMENT OF TRANSPORTATION	PROJECT NUMBER & PHASE 3599 09120000291	POST MILE	WOOD FRAMING STANDARD - NOTES	
DOES SD Imperial Rev. 9/02				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY) 1-16-04 11-14-05

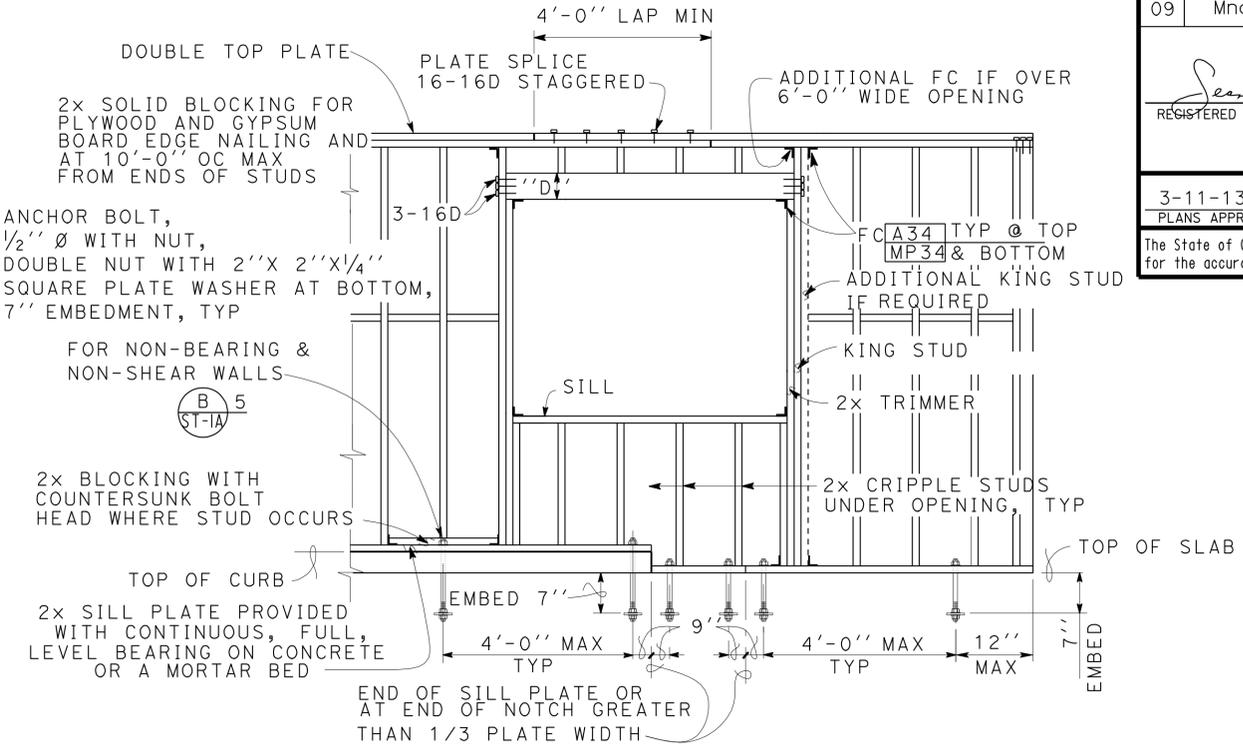
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### MINIMUM NAILING SCHEDULE

- A**
- 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
    - Rim joist to floor joist, End Nail 2-16d  
For each additional 4" member depth beyond 8" member add
    - Rim joist to top plate, Toe Nail 1-16d
    - Double joists under bearing walls, staggered Face Nail 8d @ 6" 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 or End Nail 3-16d or 4-8d  
For each additional 4" member depth beyond 8" member add, Toe Nail or End Nail 2-8d  
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

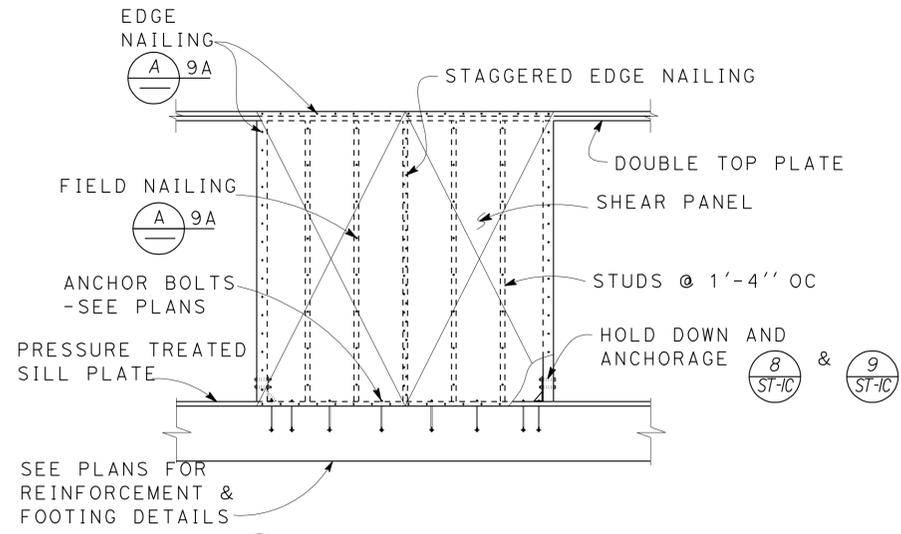
- Structural plywood edge nailing shall be staggered at supports, Detail 2, Sheet ST-1C; at double plates, Detail 3, Sheet ST-1C; and at double studs located at wall intersections and corners, Details 9A and 9B, Sheet ST-1C.
  - Decking and Underlayment: Use deformed shank nail (see Sheet ST-1C for nail size and spacing)
  - Panel siding to framing: Use zinc coated nail (see Sheet ST-1C for nail size and spacing)
10. 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
11. Gypsum Sheathing (Structural):
- Wall structural gypsum board sheathing to framing where the thickness 5/8" or less: 6d @ 4" OC



MINIMUM HEADER DEPTH "D"			SILL	KING
MAX WIDTH OF OPENING	NON-BEARING WALLS	BEARING WALLS		
4'-0"	6"	4"	2X	2X
8'-0"	8"	6"	2-2X	2-2X
10'-0"	10"	8"	2-2X	2-2X
12'-0"	12"	10"	3-2X	2-2X

HEADER, MATCH STUD WIDTH

**1** TYPICAL WALL AND OPENING FRAMING  
No Scale



**2** SHEAR WALL ELEVATION  
No Scale

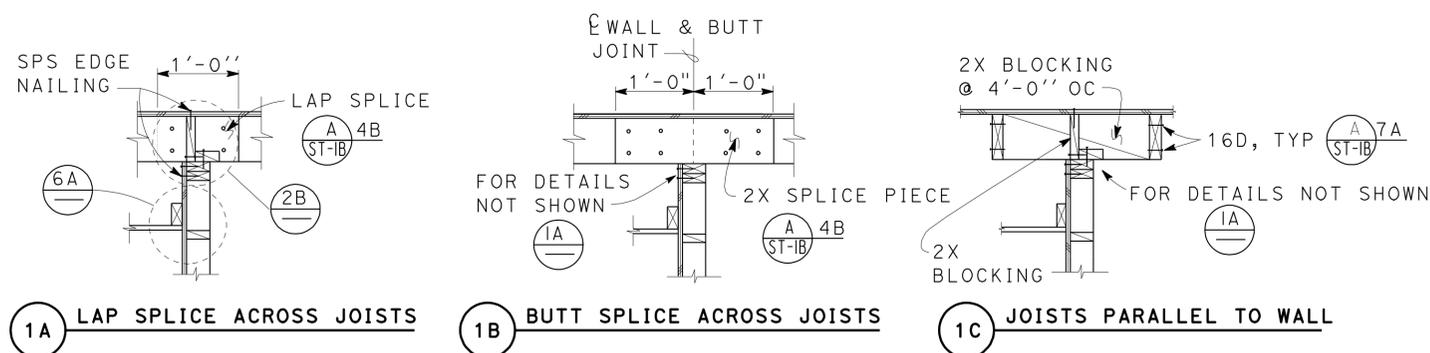
NOTE: SPECIFIC DETAILS OR NOTES ON OTHER SHEETS SHALL PREVAIL OVER STANDARD DETAILS AND NOTES ON THIS SHEET

FILE NO. XS-25-5.1	DESIGN BY <i>Sean Samuel</i>	CHECKED <i>Joe Stambaugh</i>	APPROVED <i>RE Travis</i>
DRAWING DATE 1-04	DETAILS BY <i>Peter F. von Sawoy</i>	CHECKED <i>Sean Samuel</i>	DESIGN SUPERVISOR

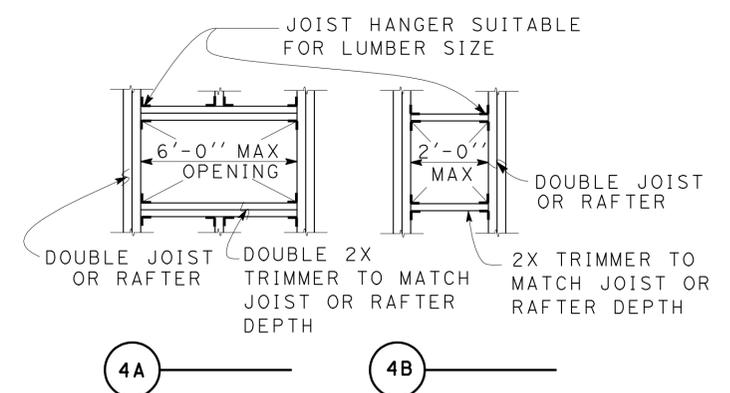
STANDARD DRAWING
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STATE OF CALIFORNIA	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 48M5710
DEPARTMENT OF TRANSPORTATION	ARCHITECTURAL AND STRUCTURAL DESIGN	POST MILE

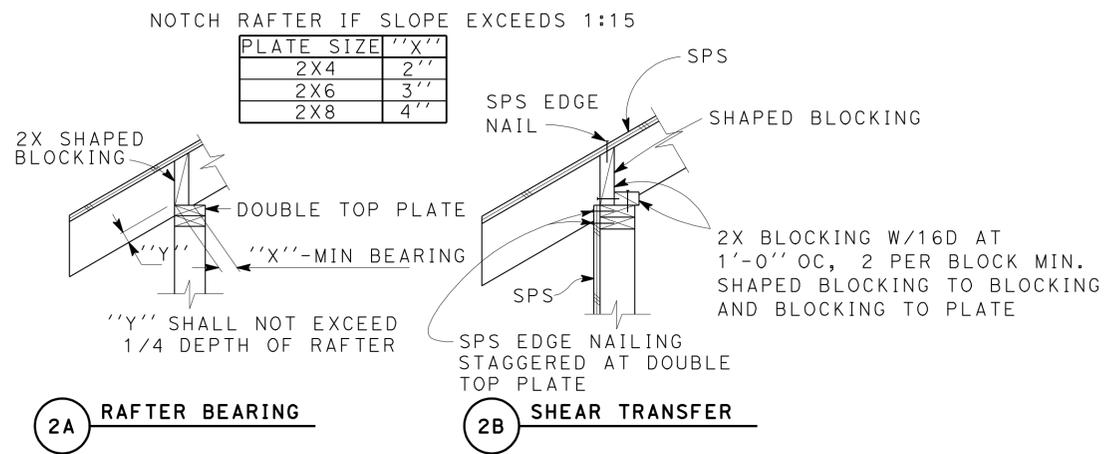
LEE VINING MAINTENANCE STATION	SHEET ST-1B
CREW ROOM BUILDING	
WOOD FRAMING STANDARD - DETAILS	



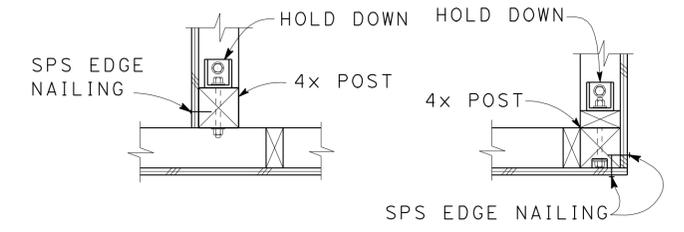
**1 JOIST LAYOUT AT TOP OF BEARING AND SHEAR WALL**  
No Scale



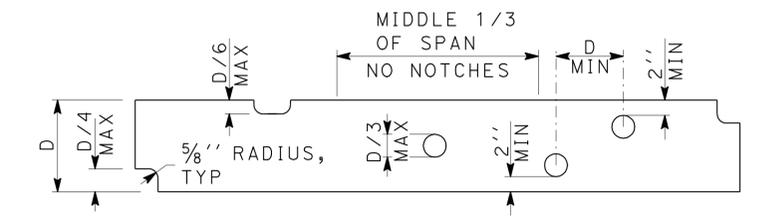
**4 FRAMING AT OPENINGS**  
No Scale



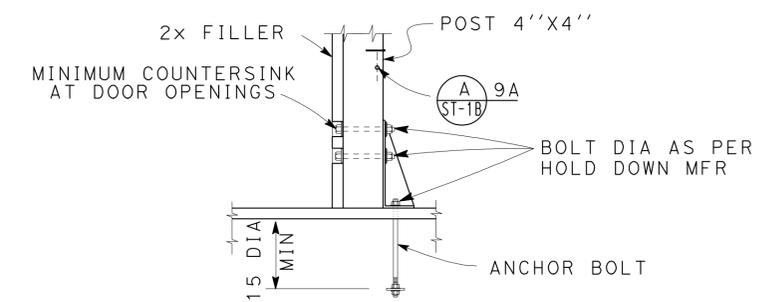
**2 EXTERIOR WALL TOP PLATE DETAIL**  
No Scale



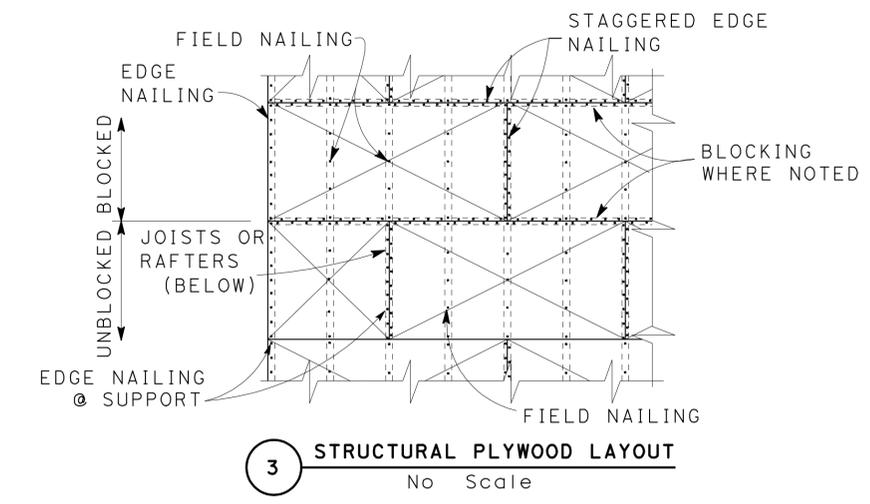
**5 INTERIOR AND CORNER WALL FRAMING DETAILS**  
No Scale



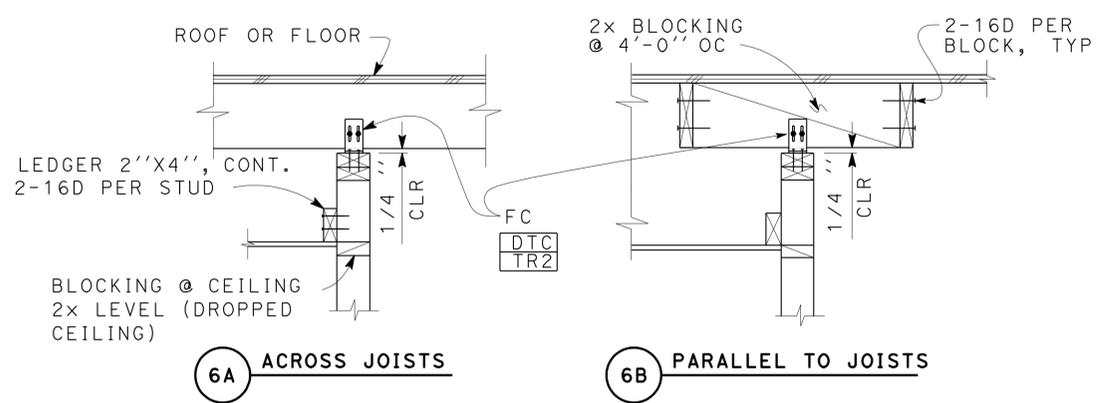
**7 NOTCH LIMITS FOR JOISTS AND HEADERS**  
No Scale



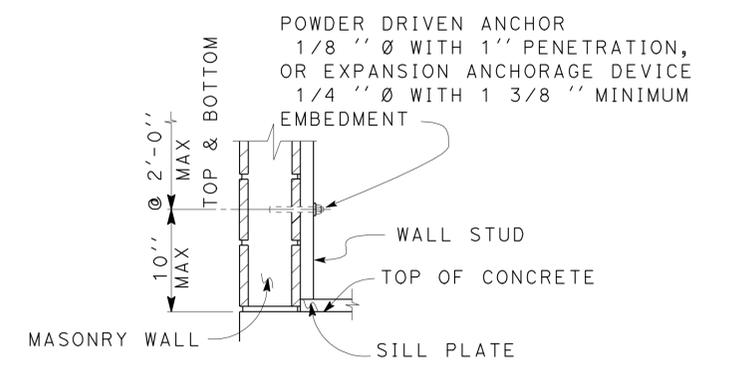
**8 INTERIOR HOLD DOWN**  
No Scale



**3 STRUCTURAL PLYWOOD LAYOUT**  
No Scale



**6 NON-BEARING WALL TOP PLATE CONNECTION**  
No Scale



**9 STUD ANCHORAGE TO MASONRY**  
No Scale

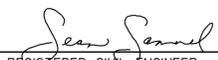
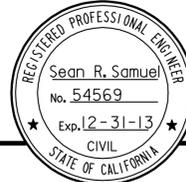
NOTE: SPECIFIC DETAILS OR NOTES ON OTHER SHEETS SHALL PREVAIL OVER STANDARD DETAILS AND NOTES ON THIS SHEET

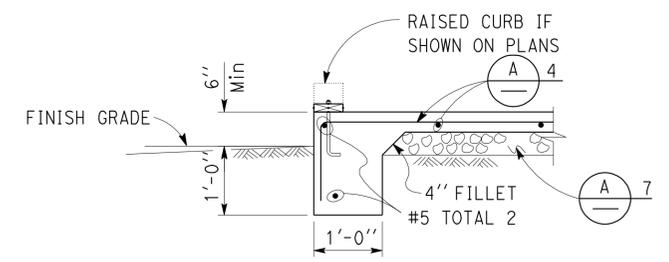
FILE NO. XS-25-5.I	DESIGN BY Sean Samuel	CHECKED Joe Stambaugh	APPROVED R.E. Travis
DRAWING DATE 1-04	DETAILS BY Peter F. von Sawoy	CHECKED [Signature]	DESIGN SUPERVISOR
DOES SD Imperial Rev. 9/02	SUBMITTED BY Sean Samuel, DESIGN ENGINEER		

STATE OF CALIFORNIA	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 48M5710	SHEET ST-1C
DEPARTMENT OF TRANSPORTATION	ARCHITECTURAL AND STRUCTURAL DESIGN	POST MILE	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT PROJECT NUMBER & PHASE 3599 09120000291	DISREGARD PRINTS BEARING EARLIER REVISION DATES	SHEET OF

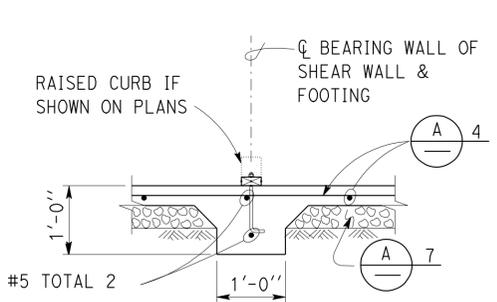
STATE OF CALIFORNIA	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 48M5710	SHEET ST-1C
DEPARTMENT OF TRANSPORTATION	ARCHITECTURAL AND STRUCTURAL DESIGN	POST MILE	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT PROJECT NUMBER & PHASE 3599 09120000291	DISREGARD PRINTS BEARING EARLIER REVISION DATES	SHEET OF

LEE VINING MAINTENANCE STATION CREW ROOM BUILDING		WOOD FRAMING STANDARD - DETAILS	
REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF	
10-16-03	11-14-05	11-02-06	01-15-08

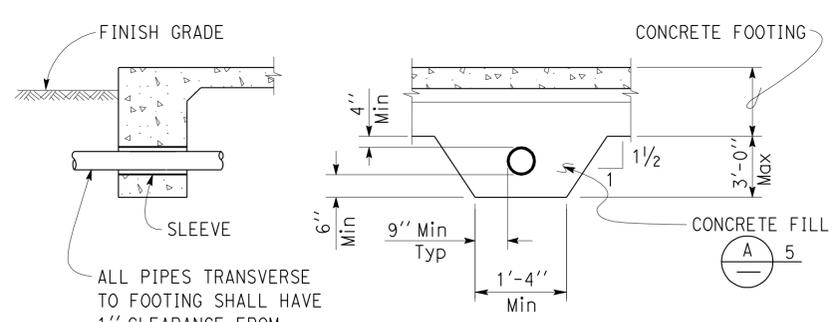
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	51.5	28	68
 REGISTERED CIVIL ENGINEER			11-14-12 DATE		
3-11-13 PLANS APPROVAL DATE					
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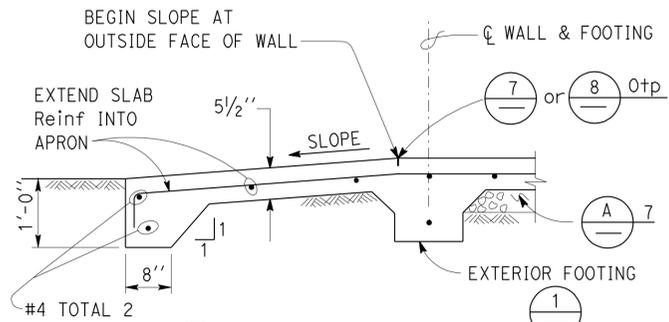
**1 EXTERIOR FOOTING**  
NO SCALE



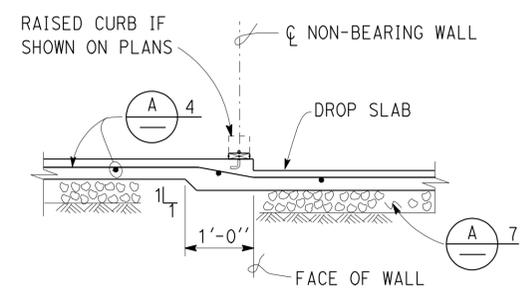
**5 INTERIOR FOOTING**  
NO SCALE



**9 PIPE DETAILS THROUGH FOOTING**  
NO SCALE



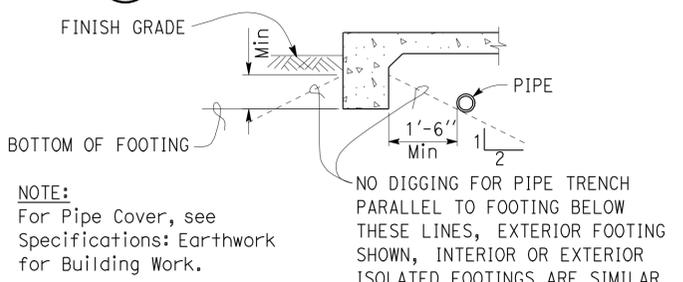
**2 DRIVEWAY APRON**  
NO SCALE



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

ALL PIPES TRANSVERSE TO FOOTING SHALL HAVE 1" CLEARANCE FROM SLEEVE ALL AROUND

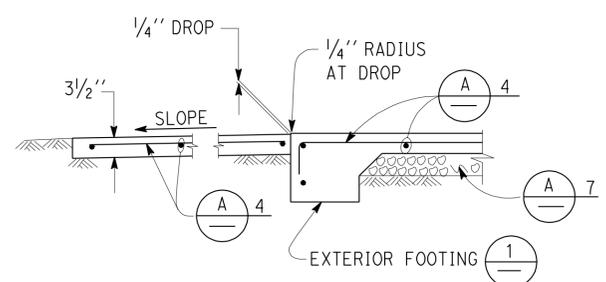
NOTE:  
No Pipes Permitted beneath Interior or Exterior Isolated Footing.



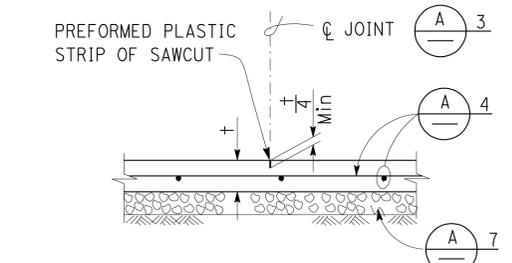
**10 PIPE DETAILS PARALLEL TO FOOTING**  
NO SCALE

- A CONCRETE NOTES:**
- The following minimum concrete cover shall be provided for reinforcement.
 

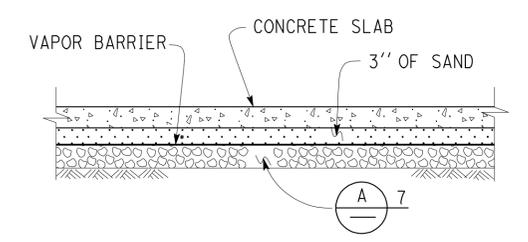
	Minimum Cover
a. Concrete cast against and permanently exposed to earth	3"
b. Concrete exposed to earth or weather but cast in forms:	
#6 thru #18 bars	2"
#5 bar and smaller, W31 or D31 Wire, and smaller	1 1/2"
c. Concrete not exposed to weather or in contact with ground: Slabs, Walls and Joists:	
#14 and #18 Bar	1 1/2"
#11 Bar and smaller	3/4"
Beams and Columns: Primary Reinforcement, Ties, Stirrups and Spirals	1 1/2"



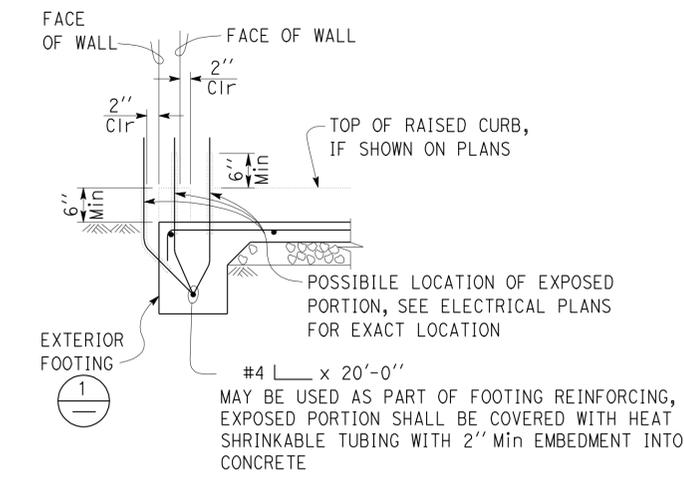
**3 WALKWAY APRON**  
NO SCALE



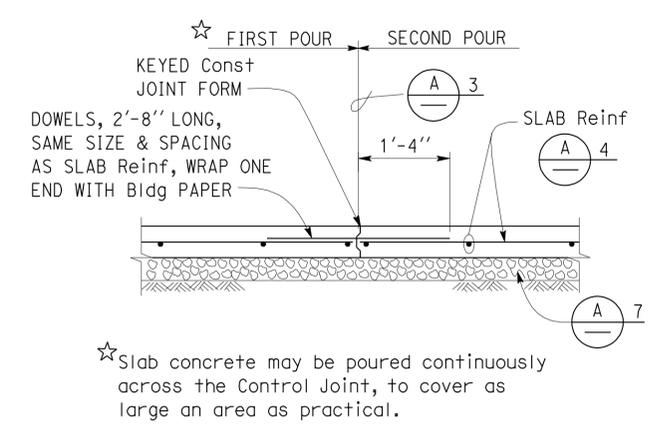
**7 CONTROL JOINT**  
NO SCALE



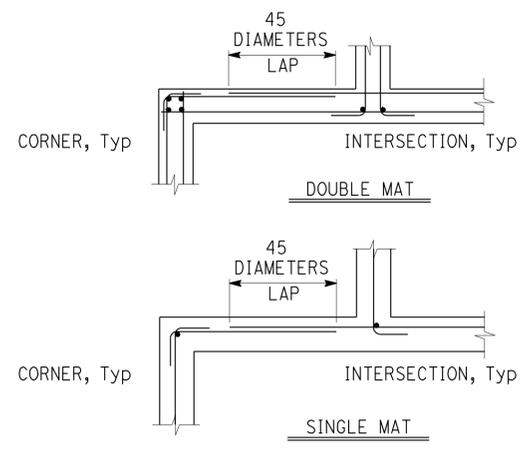
**11 MOISTURE BARRIER**  
NO SCALE



**4 GROUND BAR DETAIL**  
NO SCALE



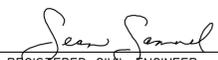
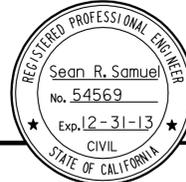
**8 CONTRACTION JOINT**  
NO SCALE

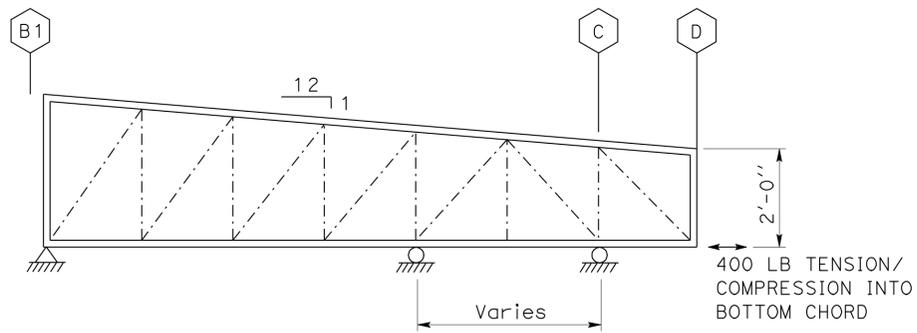


**12 CORNER/INTERSECTION REINF SPLICE**  
NO SCALE

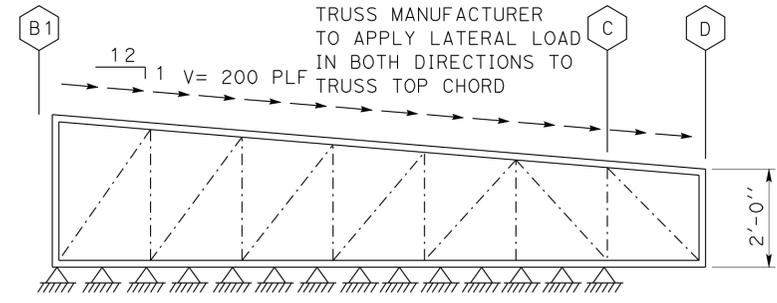
NOTE: SPECIFIC DETAILS OR NOTES ON OTHER SHEETS SHALL PREVAIL OVER STANDARD DETAILS AND NOTES ON THIS SHEET

FILE NO. XS-25-1	DESIGN BY Sean Samuel	CHECKED Lee Gandy	APPROVED R.C. Travis	STATE OF CALIFORNIA	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 48M5710	LEE VINING MAINTENANCE STATION	SHEET ST-2
DRAWING DATE 1-04	DETAILS BY Peter F. von Sawoye	CHECKED Sean Samuel	DESIGN SUPERVISOR	DEPARTMENT OF TRANSPORTATION	ARCHITECTURAL AND STRUCTURAL DESIGN	POST MILE	CREW ROOM BUILDING	
TAEMWW Imperial Rev. 7/10	SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3599 09120000291	DISREGARD PRINTS BEARING EARLIER REVISION DATES	CONCRETE STANDARD	SHEET OF
						REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF
						1-16-04 11-14-05 04-27-12 07-30-12		

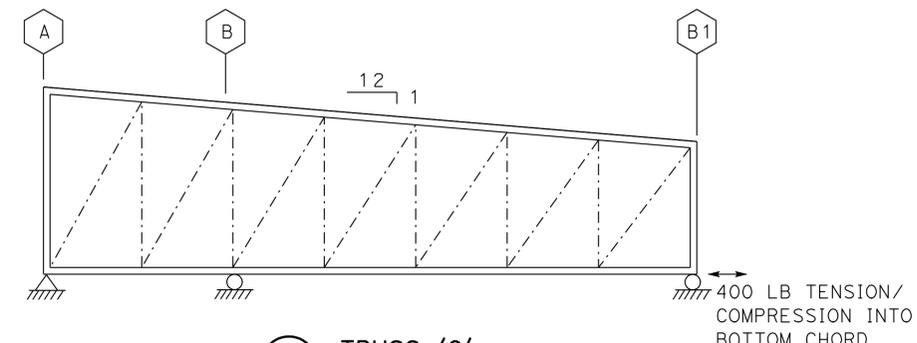
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	51.5	29	68
 REGISTERED CIVIL ENGINEER			11-14-12		
3-11-13				PLANS APPROVAL DATE	
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					



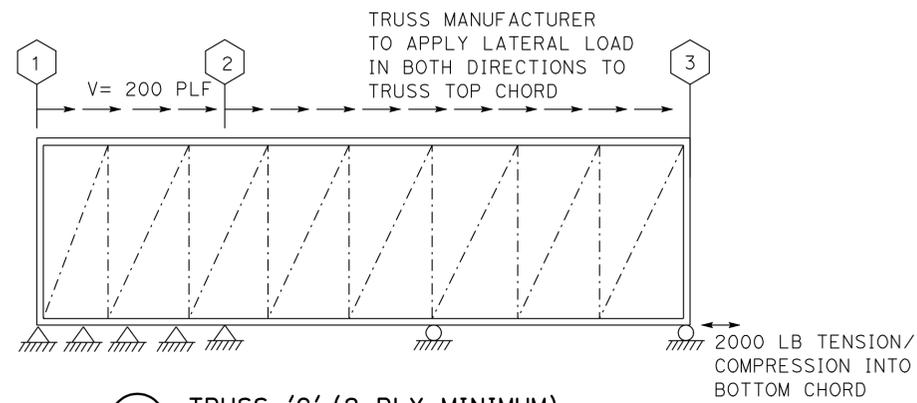
1 TRUSS 'A'  
NO SCALE



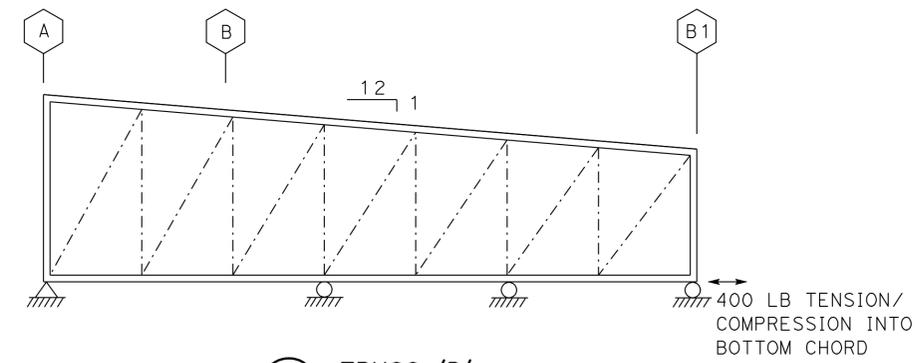
5 COLLECTOR TRUSS 'F'  
NO SCALE



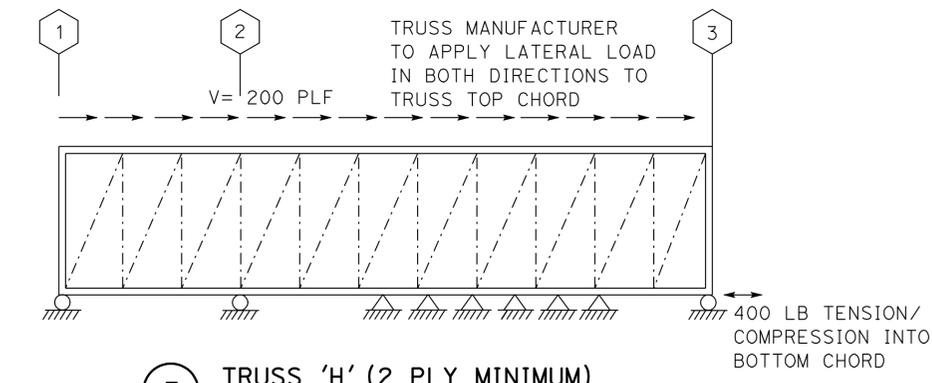
2 TRUSS 'C'  
NO SCALE



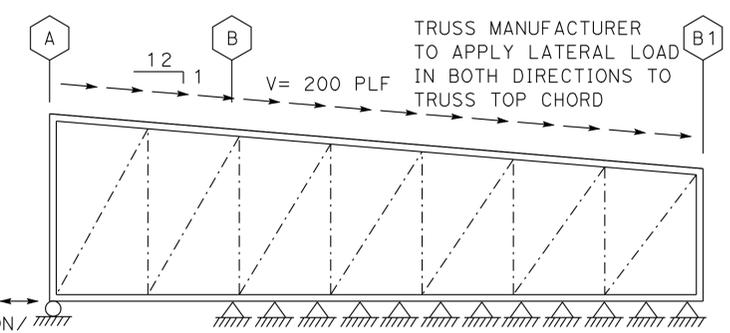
6 TRUSS 'G' (2 PLY MINIMUM)  
NO SCALE



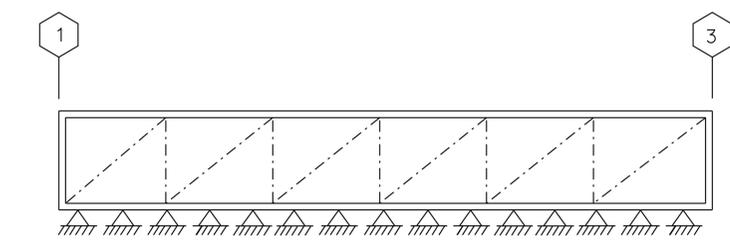
3 TRUSS 'D'  
NO SCALE



7 TRUSS 'H' (2 PLY MINIMUM)  
NO SCALE



4 COLLECTOR TRUSS 'E'  
NO SCALE



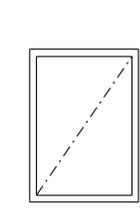
8 TRUSS 'I'  
NO SCALE

A PRE-ENGINEERED TRUSS REQUIREMENTS

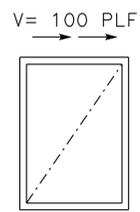
Loads:	Dead Load	Live Load	Snow Load
Top chord (Roof):	20 psf	20 psf	92 psf
Bottom chord (Ceiling):	10 psf	10 psf (Non-concurrent)	
Wind uplift @ eave:	42 psf (min)		

- Deflection:  
Live load ----- L/360  
Total load ----- L/240 and 1" max (lesser of two)
- Camber shall be 1.5 times dead load deflection.
- Top and bottom truss chords shall be a minimum grade of DF no. 1 and 2x6 minimum size, unless otherwise noted. Truss webs shall be a minimum grade of DF no. 2 and 2x4 minimum size, unless otherwise noted.

- Symbols:  
 Denotes point of vertical resistance  
 Denotes point of vertical and horizontal resistance
- Brace bottom chord of trusses to provide permanent lateral bracing as per truss manufacturer specifications.
- Collector truss and girder truss shall be 2-ply minimum.
- Where bearing wall occurs below truss, vertical web/chord member shall be centered about bearing wall.
-  Denotes direction of lateral load  
 Denotes direction of vertical load



9 TRUSS BLOCKING  
No Scale



10 SHEAR TRANSFER TRUSS  
No Scale

DESIGN BY JUSTIN UYEHARA CHECKED DAI LU	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 48M5710	LEE VINING MAINTENANCE STATION CREW ROOM BUILDING		SHEET ST-3
			POST MILE	PRE-ENGINEERED TRUSS NOTES AND DETAILS		OF
DETAILS BY P. VON SAVOYE CHECKED DAI LU	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT PROJECT NUMBER & PHASE 3599 09120000291	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
QUANTITIES BY	0 1 2 3	EA	04-18-12 05-18-12			

**PROJECT DESIGN CRITERIA**

The building work on this project has been designed to conform to the 2010 California building code.

**LOADS**

**Seismic:** Occupancy category = II  
 Importance factor = 1.0  
 Site soil class = D  
 $S_S = 1.780$        $S_{DS} = 1.190$   
 $S_I = 0.620$        $S_{DI} = 0.62$   
 Seismic design category = D  
**Seismic force-resisting system:**  
 Light-framed walls sheathed with wood structural panels  
 $R = 6.50$     $C_S = 0.1826$   
 Light-framed walls sheathed with wood structural panels  
 $R = 6.50$     $C_S = 0.1826$

**Live load:** Roof = 20 psf

**Snow load:**  $C_e = 1$     $C_t = 1.1$     $I = 1.0$   
 $P_G = 120$  psf  
 $P_F = 92$  psf

**WIND:** Importance Factor = 1.0  
 Basic Wind Speed = 90 mph  
 Exposure C

**MATERIALS**

**Reinforced concrete:** (Ultimate strength design):  
 $f'_c = 3,000$  psi  
 $f_y = 60,000$  psi

**Foundation:**  
 Soils report dated : Aug12,2011  
 Allowable soil pressure (DL + LL) : = 2,000 psf

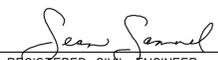
For soil classification, see log of test boring sheets.

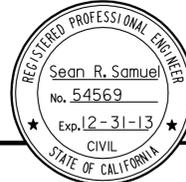
**Structural steel:** (Allowable strength design):  
 Plates       $F_y = 36$  ksi  
 Hollow structural steel (HSS)  $F_y = 46$  ksi

**DETAIL NOTES:**

- For concrete see: "Concrete standard"
- All bolts shall be hex head machine bolts, with hex head nuts, unless otherwise noted.
- All lock washers shall be helical spring lock washers.

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	51.5	30	68

 11-14-12  
 REGISTERED CIVIL ENGINEER      DATE



3-11-13  
 PLANS APPROVAL DATE

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DESIGN	BY JUSTIN UYEHARA	CHECKED DAI LU
DETAILS	BY P. VON SAVOYE	CHECKED DAI LU
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES  
 ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE NO.	48M5710
POST MILE	

LEE VINING MAINTENANCE STATION  
 CREW ROOM BUILDING  
 DESIGN CRITERIA AND DETAIL NOTES

SHEET ST1-0 OF

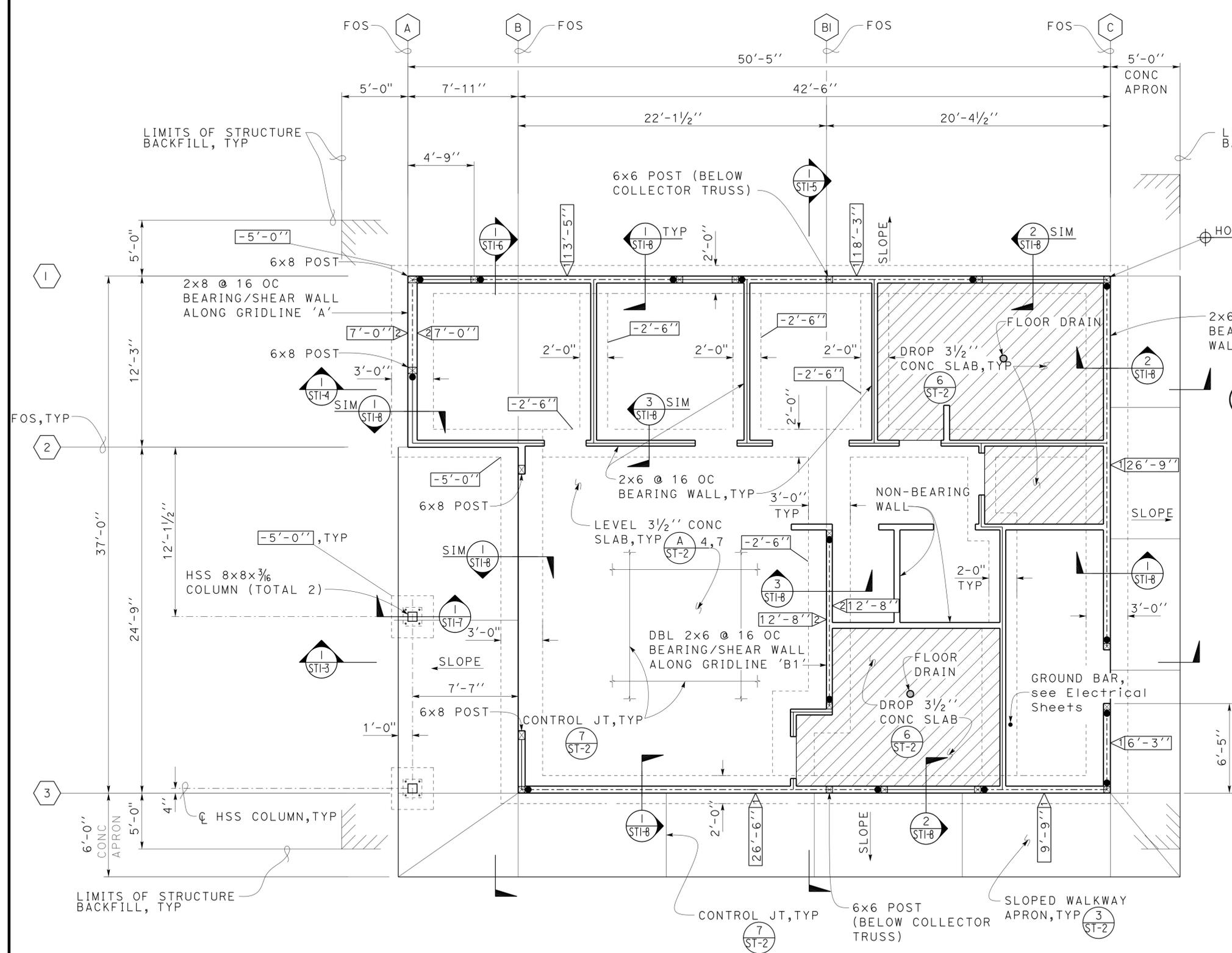


DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	51.5	31	68


  
 REGISTERED CIVIL ENGINEER  
 DATE 11-14-12  
 PLANS APPROVAL DATE 3-11-13

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**A SHEAR WALL TABLE**

Mark	Screw schedule		Holdown	Holdown threaded rod	Anchor bolt
	Edge nailing	Field nailing			
1	6" OC	12" OC	HD5B TDX6	5/8" Ø x 26"	5/8" Ø x 7" EMBED @ 48 OC
2	6" OC	12" OC	HD9B TDX14	7/8" Ø x 26"	5/8" Ø x 7" EMBED @ 48 OC

- Holdown to occur at each end of shear wall connected to post, see (2) & (3)
- All SPS edges shall be blocked.
- Provide double nut with 2"x2"x1/4" square plate @ bottom of holdown threaded rod.

Elevation 102.43 = Datum 0'-0"

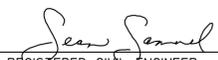
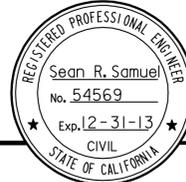
Note:  
Wall stud @ bearing wall & shear wall shall be installed directly below truss.

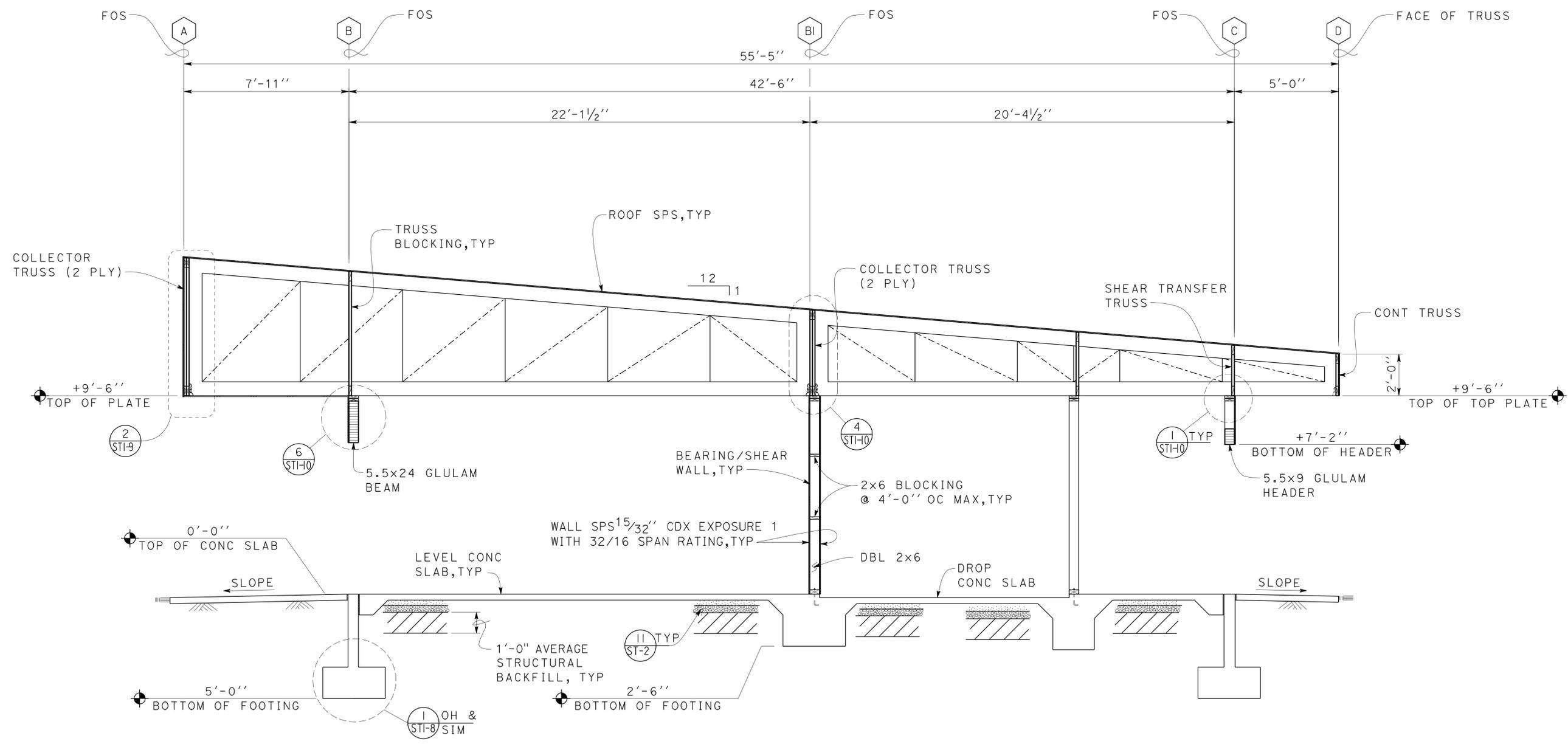
**1 FOUNDATION PLAN**  
Scale 1/4" = 1' - 0"

DESIGN BY JUSTIN UYEHARA	CHECKED DAI LU	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 48M5710	LEE VINING MAINTENANCE STATION CREW ROOM BUILDING FOUNDATION PLAN	SHEET ST1-1	
DETAILS BY P. VON SAVOYE	CHECKED DAI LU		PROJECT NUMBER & PHASE 3599 09120000291	POST MILE		REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
QUANTITIES	CHECKED		UNIT PROJECT NUMBER & PHASE	DISREGARD PRINTS BEARING EARLIER REVISION DATES		04-09-12   05-18-12   11-06-12   11-08-12	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3  
 TAEWW Imperial Rev. 7/10  
 13-MAR-2013 10:17



DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	51.5	33	68
 REGISTERED CIVIL ENGINEER			11-14-12 DATE		
3-11-13 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					



**1 BUILDING SECTION**  
 Scale  $\frac{3}{8}'' = 1' - 0''$

DESIGN	BY JUSTIN UYEHARA	CHECKED DAI LU
DETAILS	BY P. VON SAVOYE	CHECKED DAI LU
QUANTITIES	BY	CHECKED

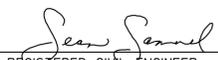
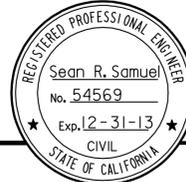
STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

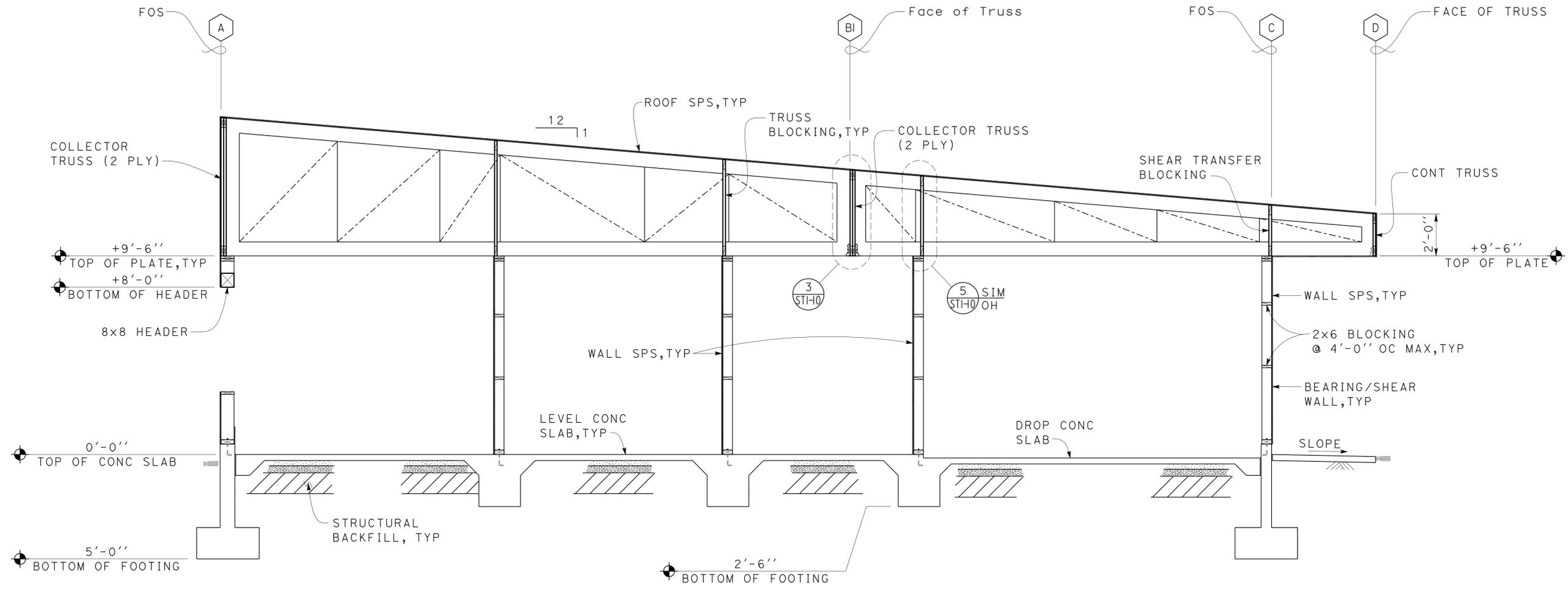
DIVISION OF ENGINEERING SERVICES  
 ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE NO. 48M5710  
 POST MILE

LEE VINING MAINTENANCE STATION  
 CREW ROOM BUILDING  
 BUILDING SECTION

SHEET OF  
**ST1-3**

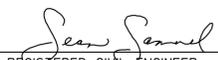
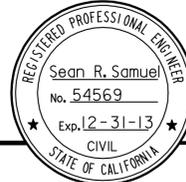
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	51.5	34	68
 REGISTERED CIVIL ENGINEER			11-14-12 DATE		
3-11-13 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					

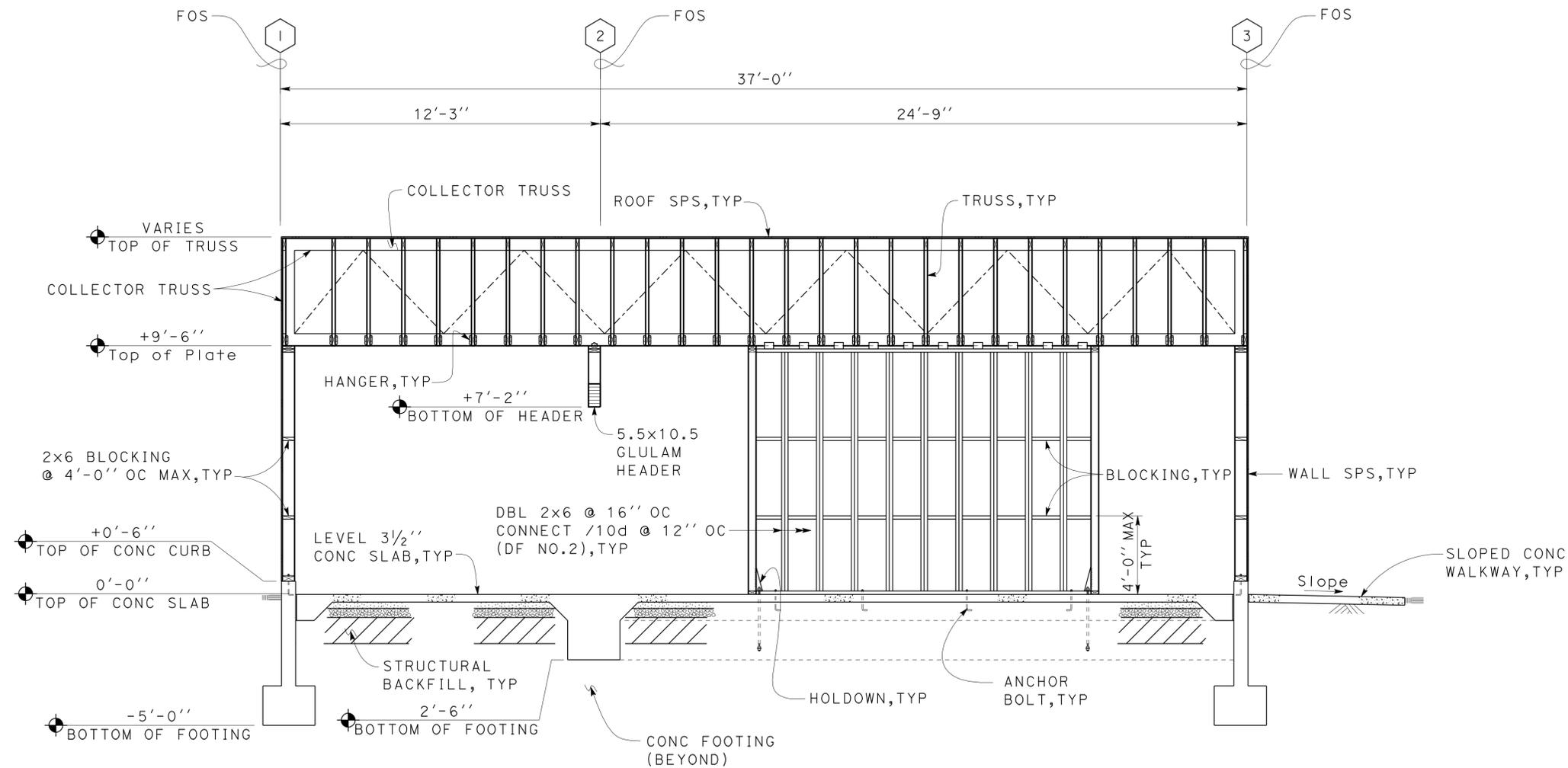


Note:  
For details not shown, see 

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

DESIGN BY JUSTIN UYEHARA CHECKED DAI LU DETAILS BY P. VON SAVOYE CHECKED DAI LU QUANTITIES BY CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 48M5710	LEE VINING MAINTENANCE STATION CREW ROOM BUILDING		SHEET ST1-4
			POST MILE	BUILDING SECTION		OF
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		UNIT PROJECT NUMBER & PHASE 3599 09120000291	DISREGARD PRINTS BEARING EARLIER REVISION DATES REVISION DATES (PRELIMINARY STAGE ONLY) 04-09-12 05-18-12 11-07-12 11-08-12		SHEET OF 13-MAR-2013 07:56 D:\User\Projects\01st_09\09120000291_leevining\expd\1fe\st1_04.dgn	

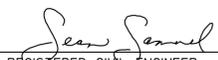
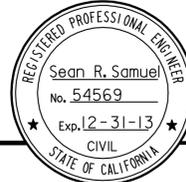
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	51.5	35	68
 REGISTERED CIVIL ENGINEER			11-14-12 DATE		
3-11-13 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					

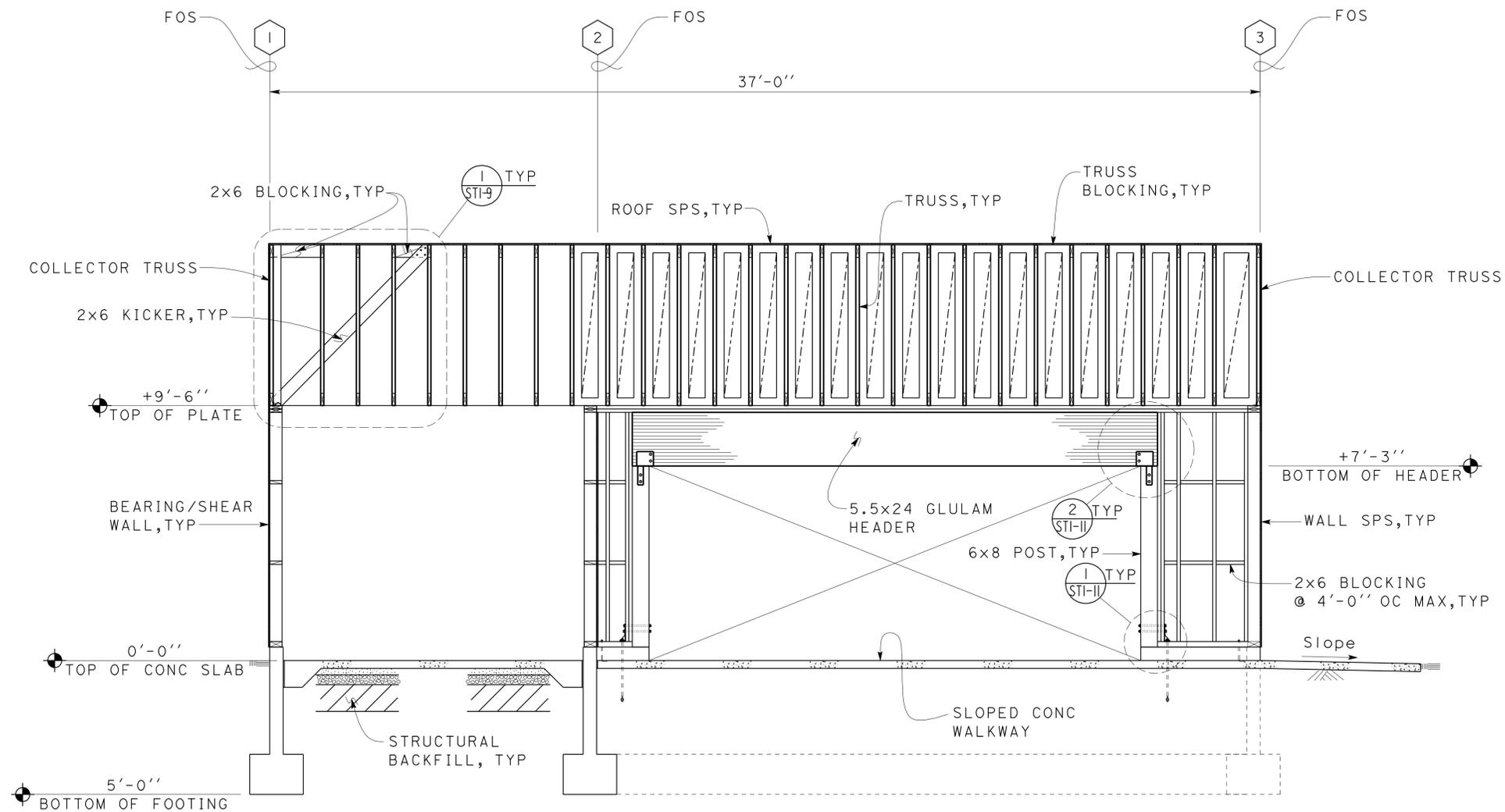


1 BUILDING SECTION  
Scale 3/8" = 1' - 0"

DESIGN BY JUSTIN UYEHARA CHECKED DAI LU DETAILS BY P. VON SAVOYE CHECKED DAI LU QUANTITIES BY CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 48M5710	<b>LEE VINING MAINTENANCE STATION CREW ROOM BUILDING</b> BUILDING SECTION	SHEET ST1-5
			POST MILE		REVISION DATES (PRELIMINARY STAGE ONLY) 04-09-12 05-18-12 11-08-12
TAEMWW Imperial Rev. 7/10	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3599 09120000291	DISREGARD PRINTS BEARING EARLIER REVISION DATES	D:\User\Projects\01st_09\09120000291_leeving\expd\1fe\st1_05.dgn	

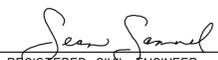
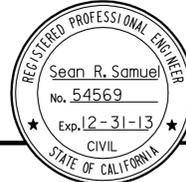
13-MAR-2013 07:56

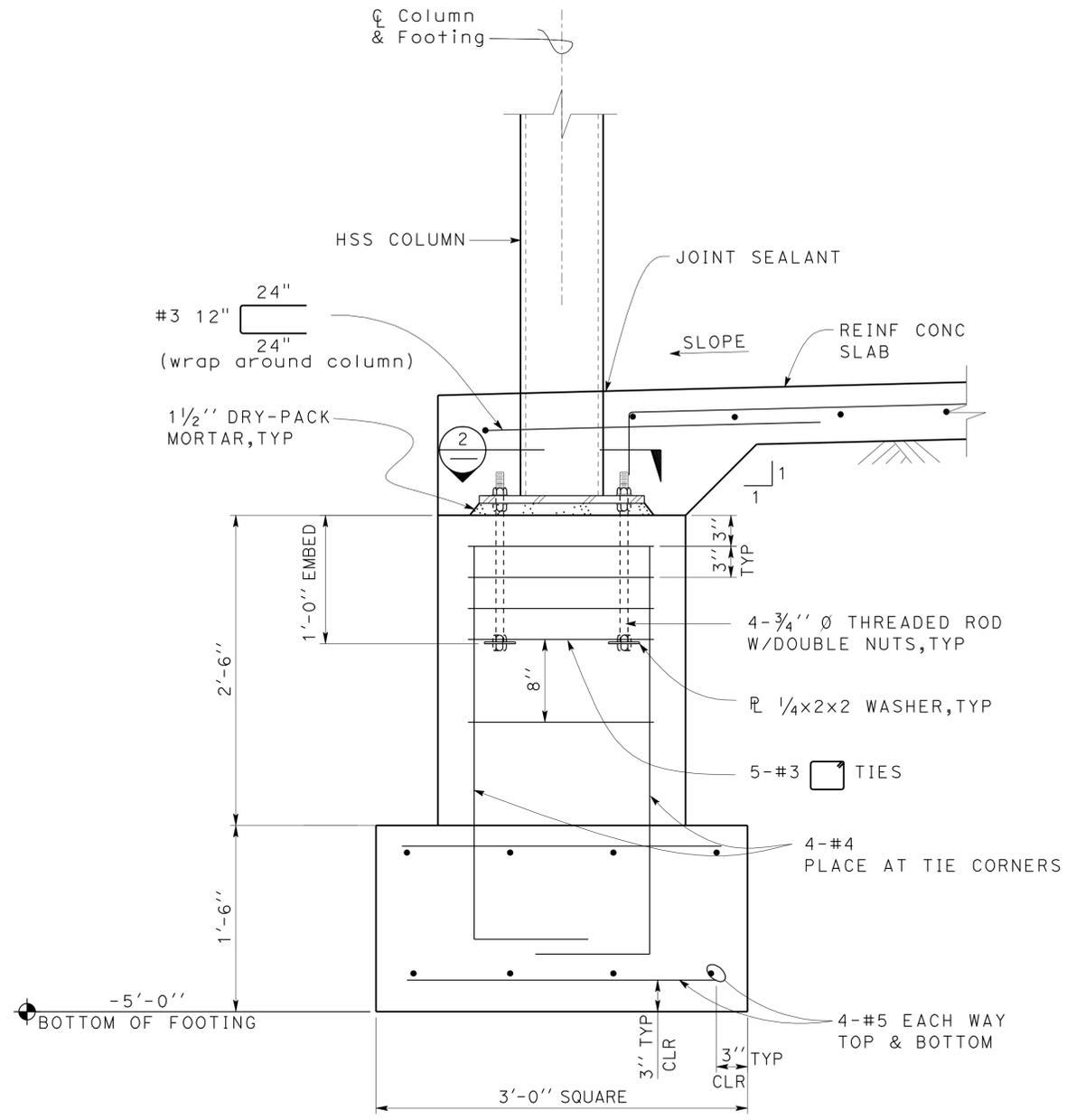
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	51.5	36	68
 REGISTERED CIVIL ENGINEER			11-14-12 DATE		
3-11-13 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					



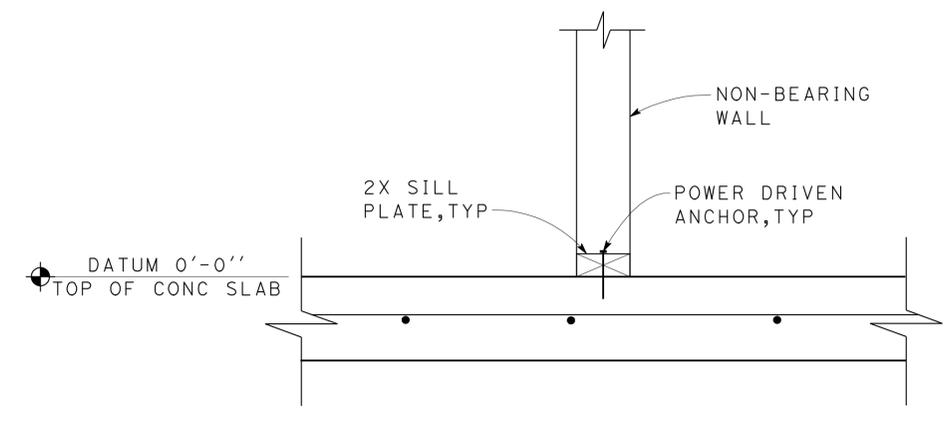
**1 BUILDING SECTION**  
 Scale  $\frac{3}{8}'' = 1' - 0''$

DESIGN BY JUSTIN UYEHARA CHECKED DAI LU DETAILS BY P. VON SAVOYE CHECKED DAI LU QUANTITIES BY CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO.	<b>LEE VINING MAINTENANCE STATION          CREW ROOM BUILDING</b>	SHEET <b>ST1-6</b>
			48M5710		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT PROJECT NUMBER & PHASE	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
0 1 2 3		3599 09120000291	04-09-12 05-18-12 11-08-12	13-MAR-2013 07:56	OF

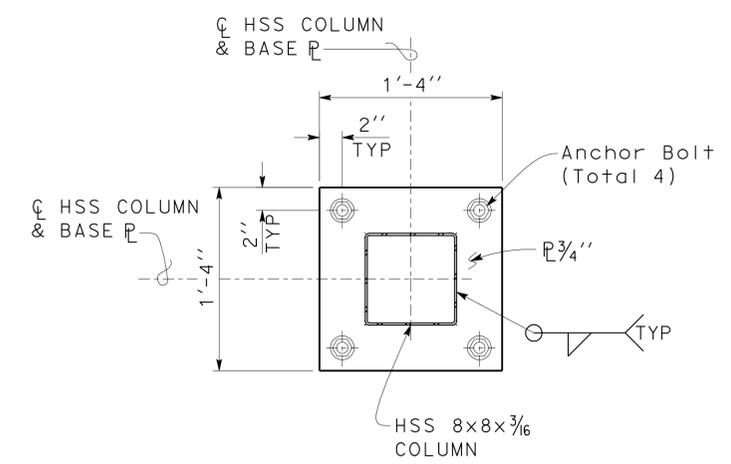
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	51.5	37	68
 REGISTERED CIVIL ENGINEER			11-14-12 DATE		
3-11-13 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					



**1 COLUMN FOOTING DETAIL**  
Scale 1 1/2" = 1' - 0"



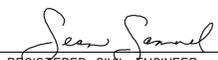
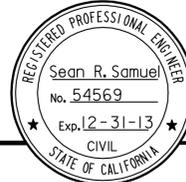
**3 NON-BEARING SILL CONNECTION DETAIL**  
Scale 2" = 1' - 0"

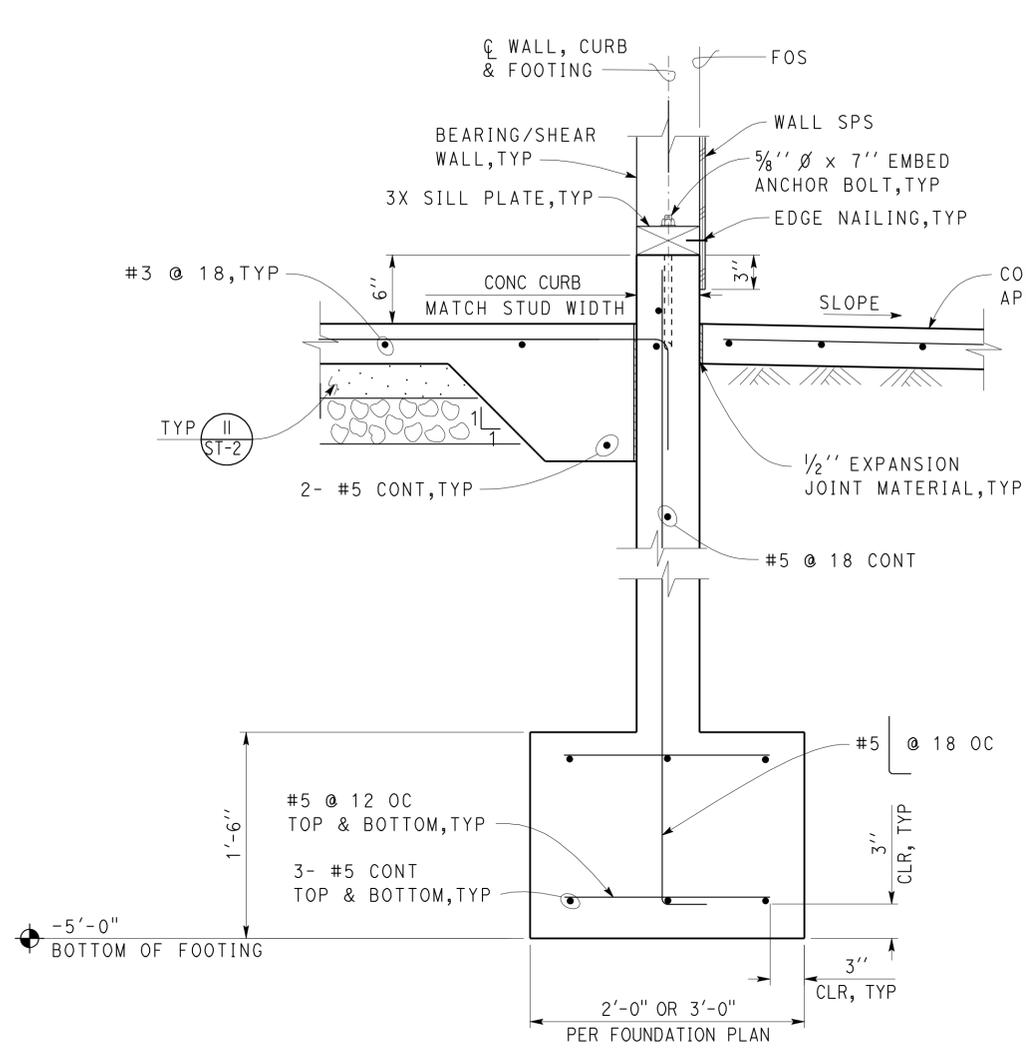


**2 BASE PLATE DETAIL**  
Scale 1 1/2" = 1' - 0"

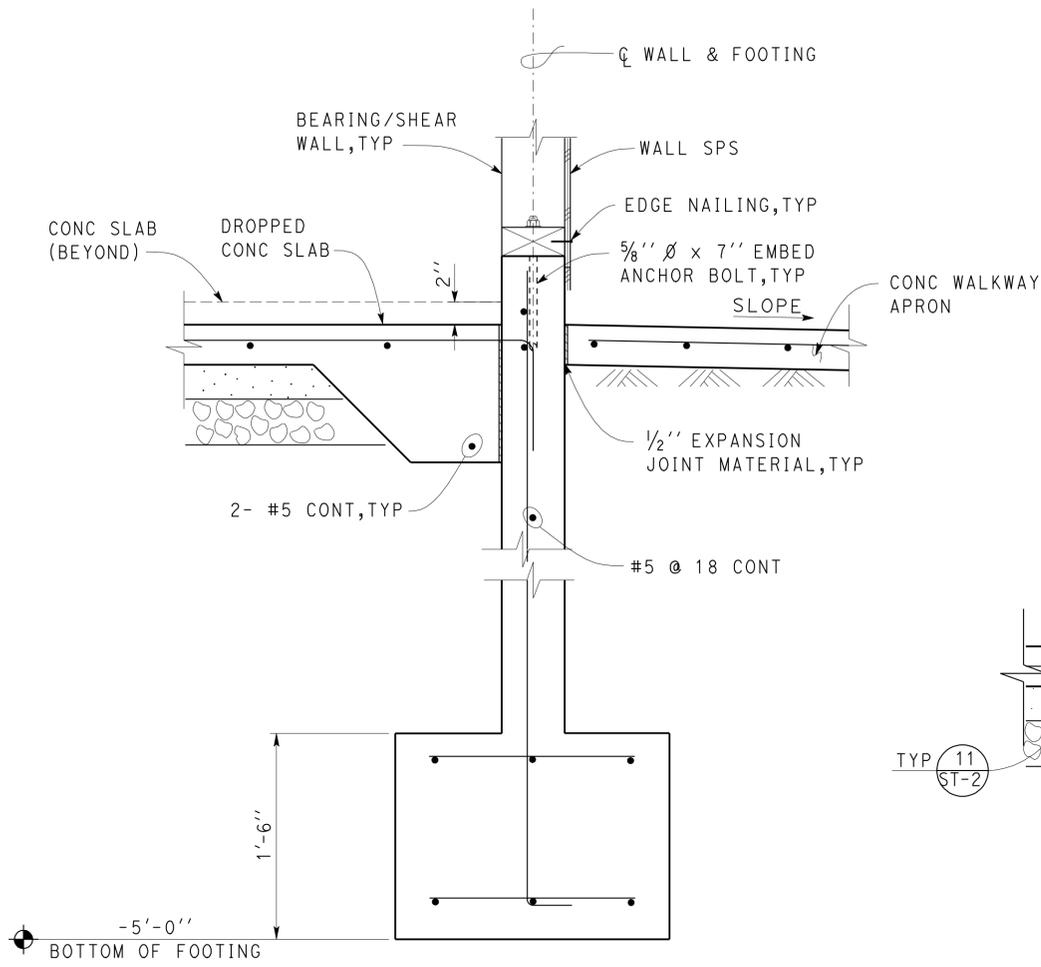
DESIGN BY JUSTIN UYEHARA	CHECKED BY DAI LU	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO.	LEE VINING MAINTENANCE STATION CREW ROOM BUILDING	SHEET ST1-7
				48M5710		
DETAILS BY P. VON SAVOYE	CHECKED BY DAI LU			POST MILE	FOOTING DETAILS	
QUANTITIES BY	CHECKED					
TAEMWW Imperial Rev. 7/10	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	UNIT PROJECT NUMBER & PHASE 3599 09120000291	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
					04-09-12 05-18-12	

13-MAR-2013 07:56

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	51.5	38	68
 REGISTERED CIVIL ENGINEER			11-14-12	DATE	
			3-11-13 PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					

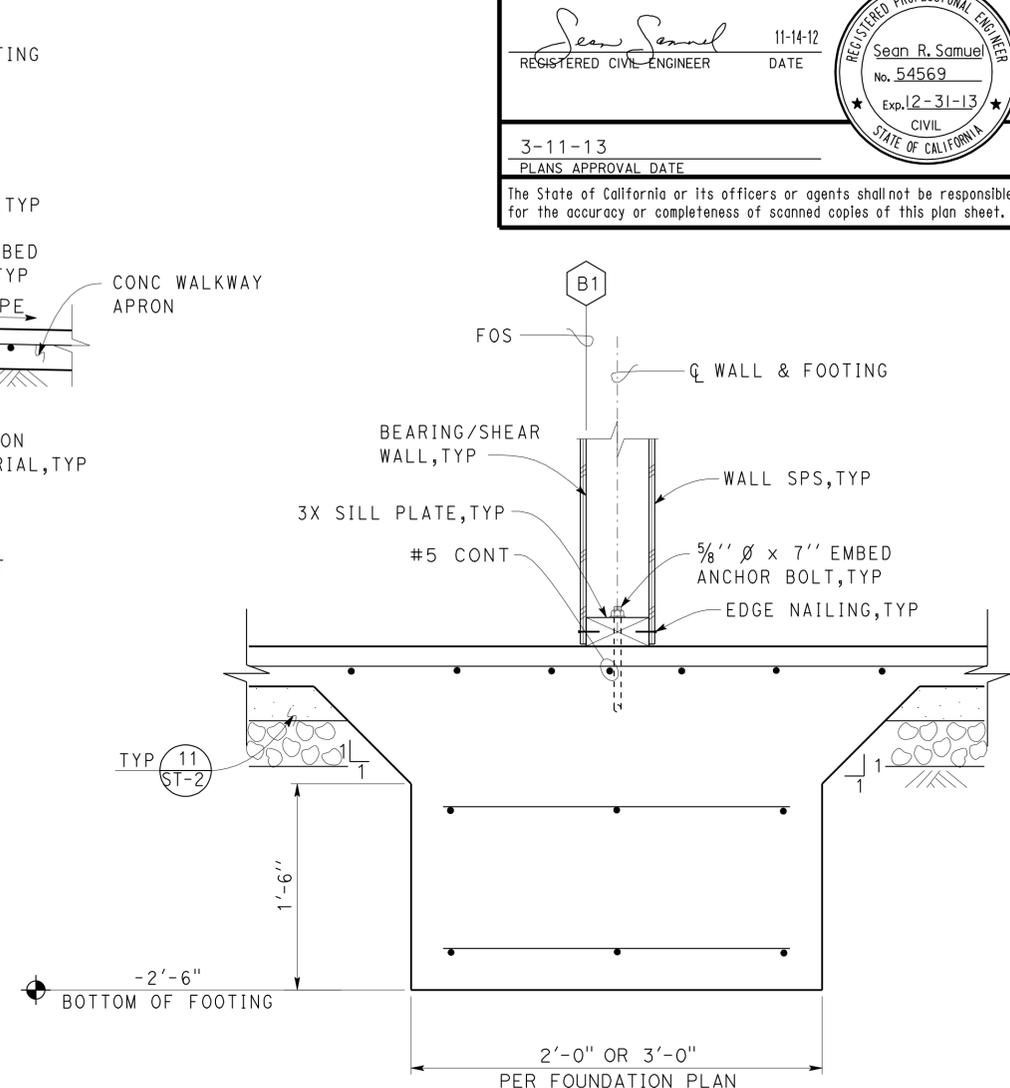


**1** EXTERIOR FOOTING DETAIL  
Scale 1 1/2" = 1' - 0"



Note:  
For details not shown, see (1) SIM

**2** EXTERIOR FOOTING DETAIL  
Scale 1 1/2" = 1' - 0"



Note:  
For details not shown, see (1) SIM

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

DESIGN	BY JUSTIN UYEHARA	CHECKED DAI LU
DETAILS	BY P. VON SAVOYE	CHECKED DAI LU
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES  
ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE NO.	48M5710
POST MILE	

LEE VINING MAINTENANCE STATION  
CREW ROOM BUILDING

FOOTING DETAILS

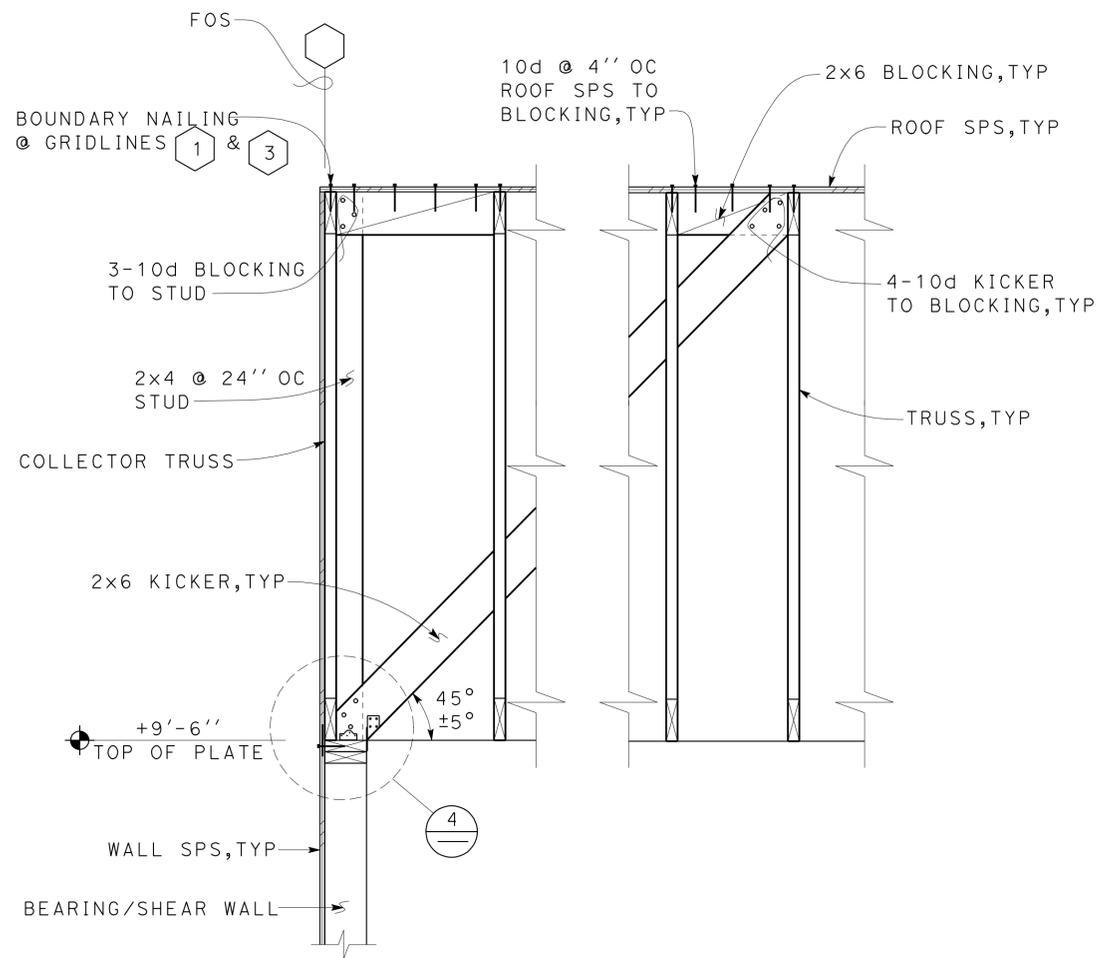
SHEET  
**ST1-8**

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	51.5	39	68

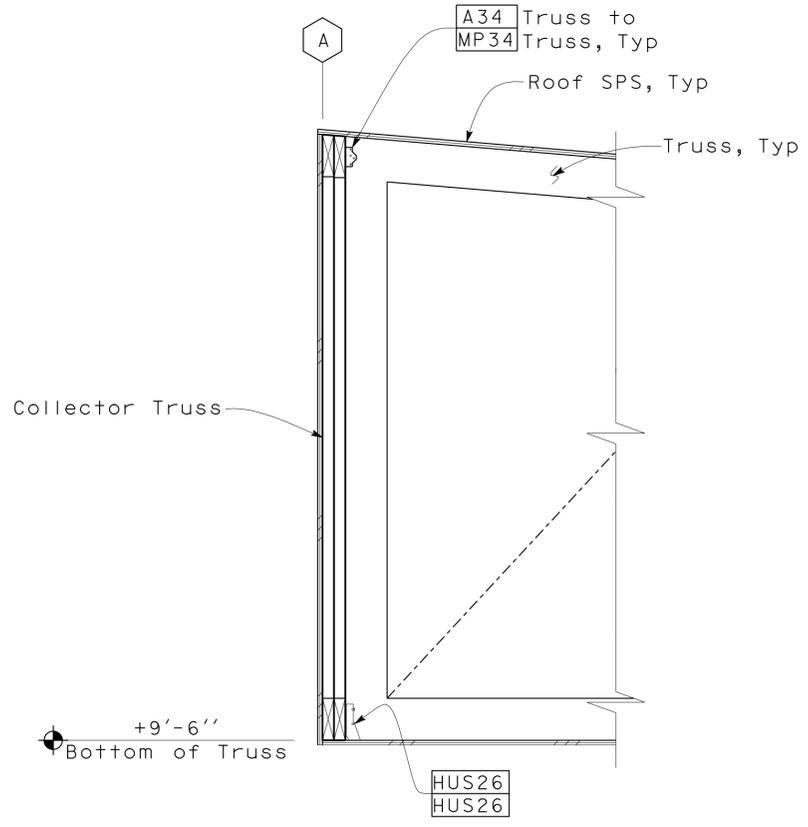
  

<i>Sean Samuel</i> REGISTERED CIVIL ENGINEER	11-14-12 DATE
3-11-13 PLANS APPROVAL DATE	
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.	

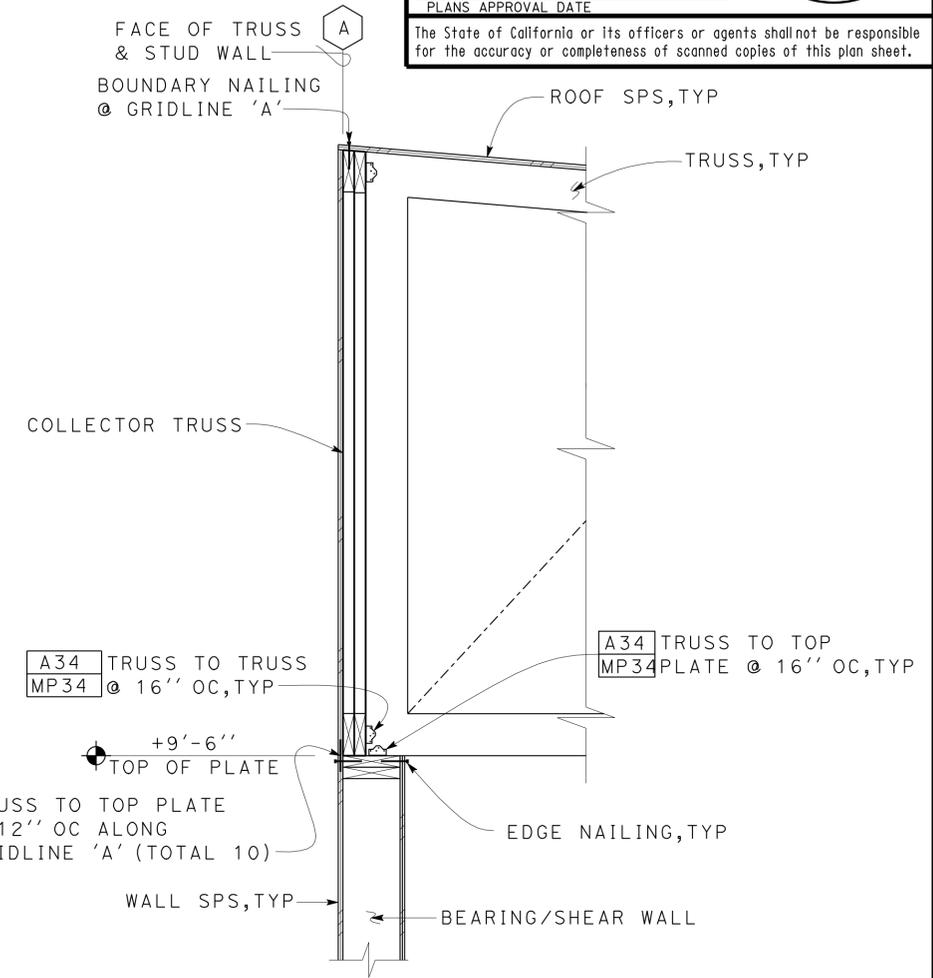
REGISTERED PROFESSIONAL ENGINEER  
 Sean R. Samuel  
 No. 54569  
 Exp. 12-31-13  
 CIVIL  
 STATE OF CALIFORNIA



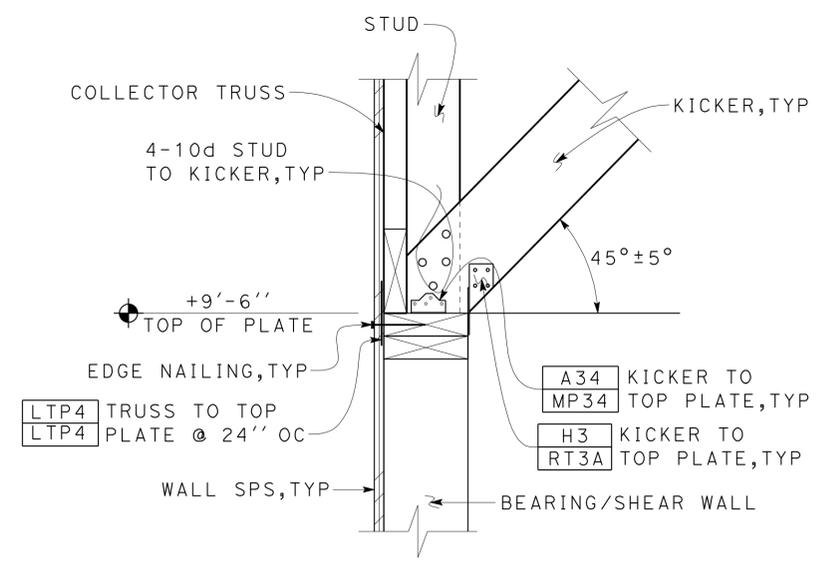
**1 KICKER FRAMING DETAIL**  
Scale 1" = 1' - 0"



**2 ROOF FRAMING DETAIL**  
Scale 1" = 1' - 0"



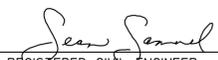
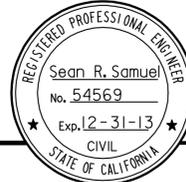
**3 SHEAR TRANSFER DETAIL**  
Scale 1" = 1' - 0"

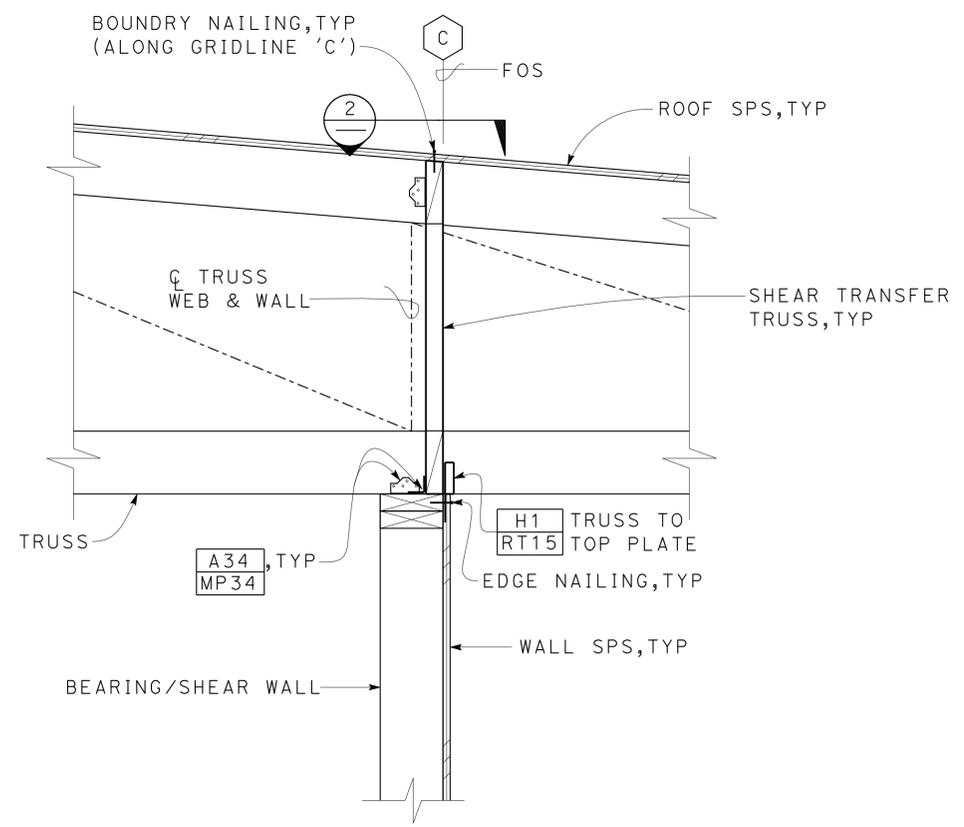


**4 KICKER FRAMING CONNECTION DETAIL**  
Scale 2" = 1' - 0"

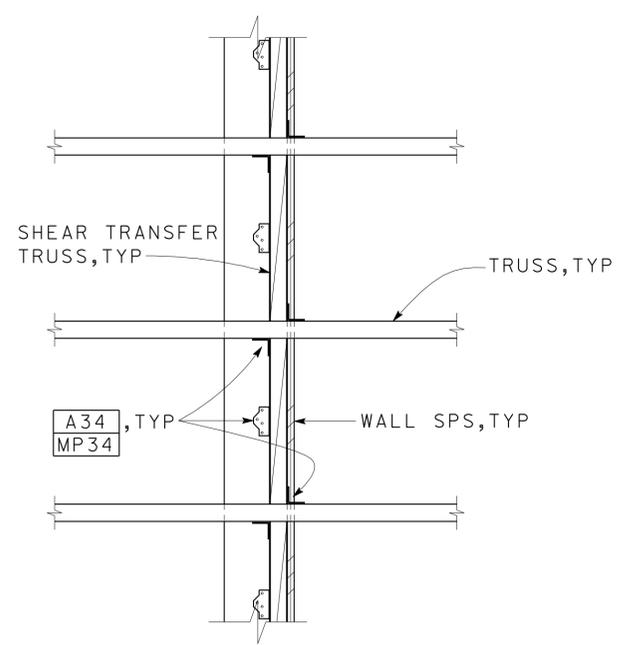
- Notes:**
- For details not shown, see (2) SIM
  - Top plate splice not allowed along gridline 'A'.

DESIGN BY JUSTIN UYEHARA CHECKED DAI LU DETAILS BY P. VON SAVOYE CHECKED DAI LU QUANTITIES BY CHECKED	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 48M5710	<b>LEE VINING MAINTENANCE STATION</b> <b>CREW ROOM BUILDING</b> ROOF FRAMING DETAILS	SHEET <b>ST1-9</b>
			POST MILE		REVISION DATES (PRELIMINARY STAGE ONLY)
TAEMWW Imperial Rev. 7/10	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	UNIT PROJECT NUMBER & PHASE 3599 09120000291	DISREGARD PRINTS BEARING EARLIER REVISION DATES	04-10-12 05-21-12

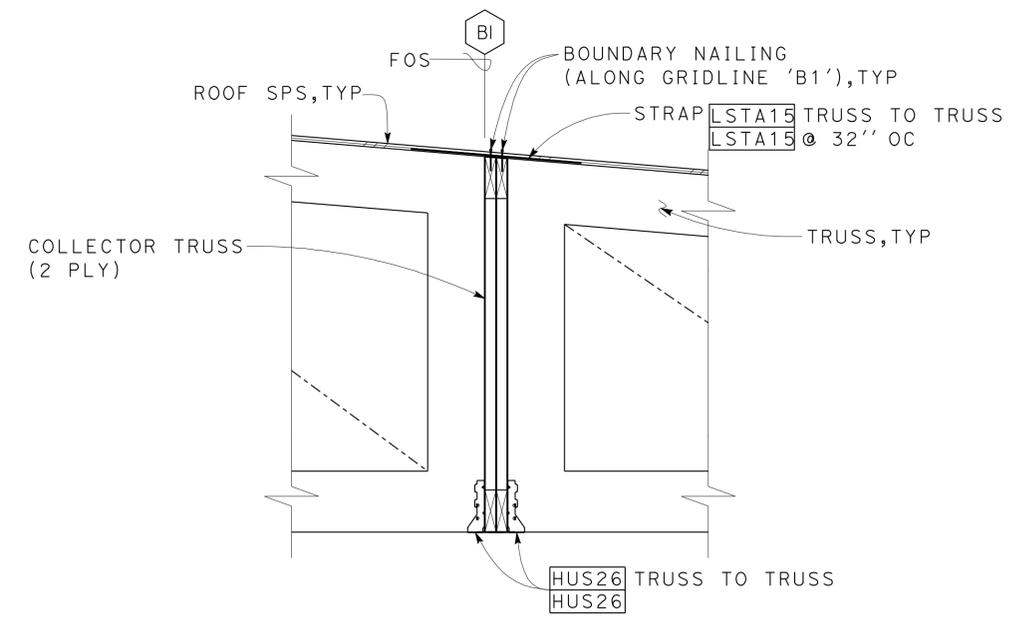
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	51.5	40	68
 REGISTERED CIVIL ENGINEER			11-14-12 DATE		
3-11-13 PLANS APPROVAL DATE					
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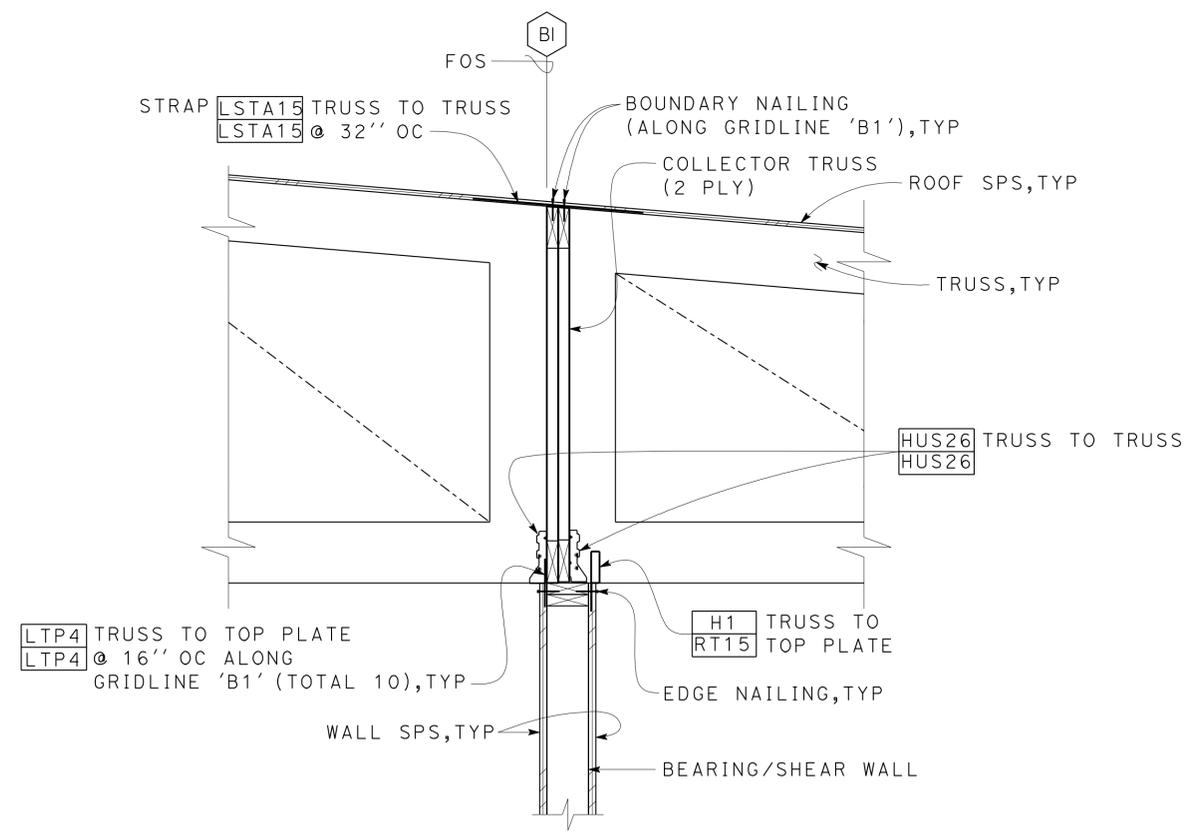
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Scale 1 1/2" = 1' - 0"



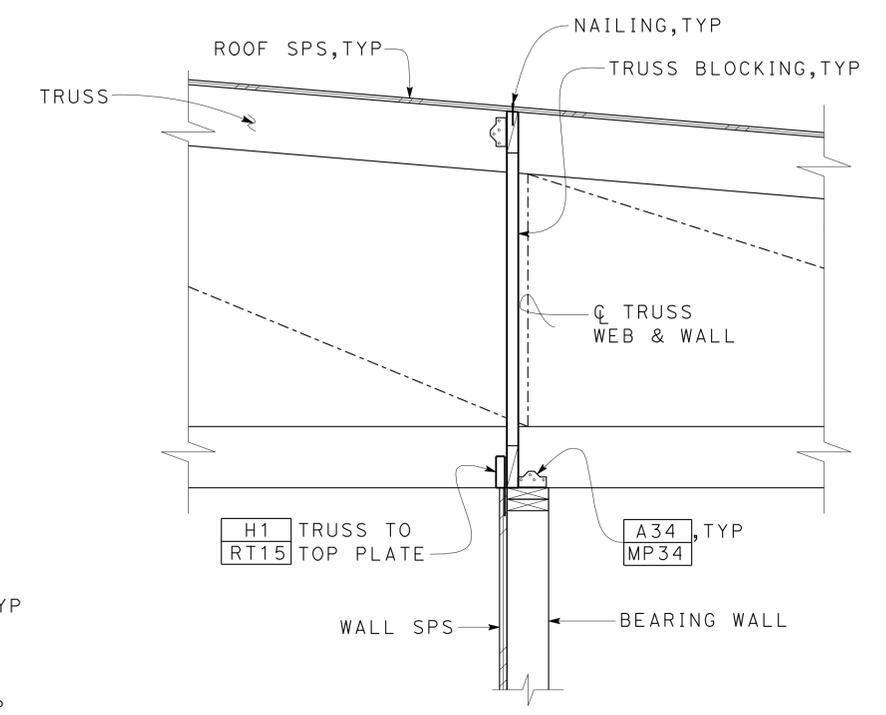
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Scale 1 1/2" = 1' - 0"



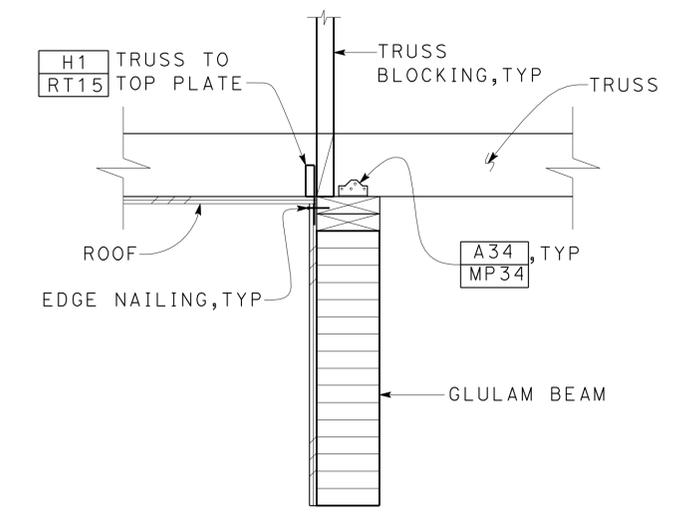
**3 TRUSS CONNECTION DETAIL**  
Scale 1 1/2" = 1' - 0"



**4 SHEAR TRANSFER DETAIL**  
Scale 1 1/2" = 1' - 0"



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



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

DESIGN	BY JUSTIN UYEHARA	CHECKED DAI LU
DETAILS	BY P. VON SAVOYE	CHECKED DAI LU
QUANTITIES	BY	CHECKED

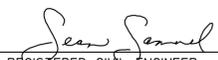
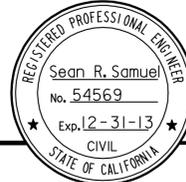
STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

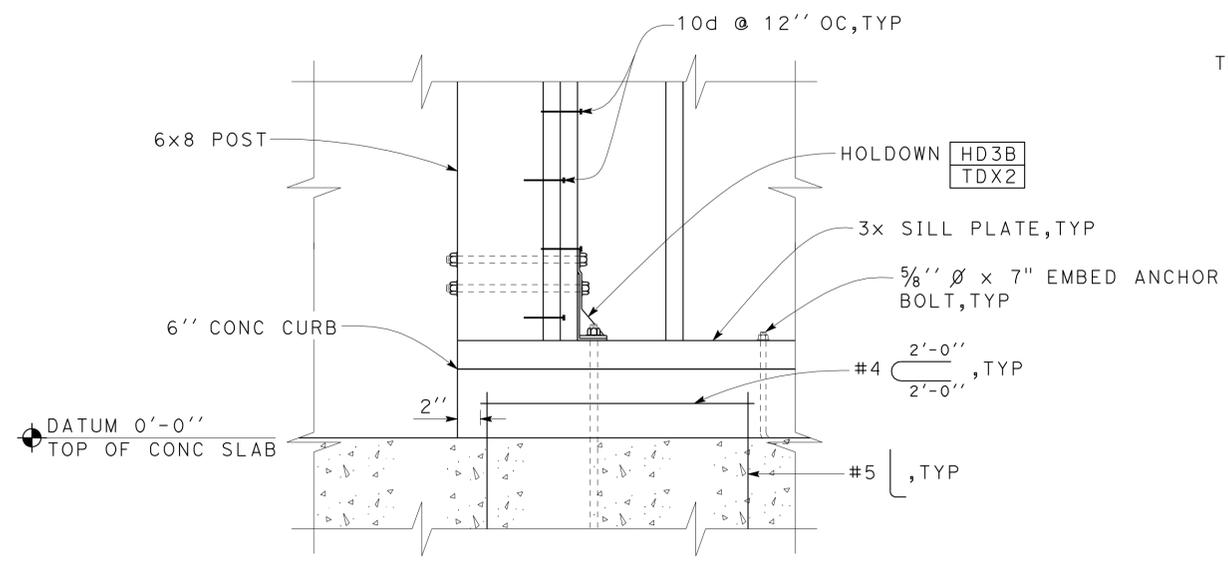
DIVISION OF ENGINEERING SERVICES  
ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE NO.	48M5710
POST MILE	

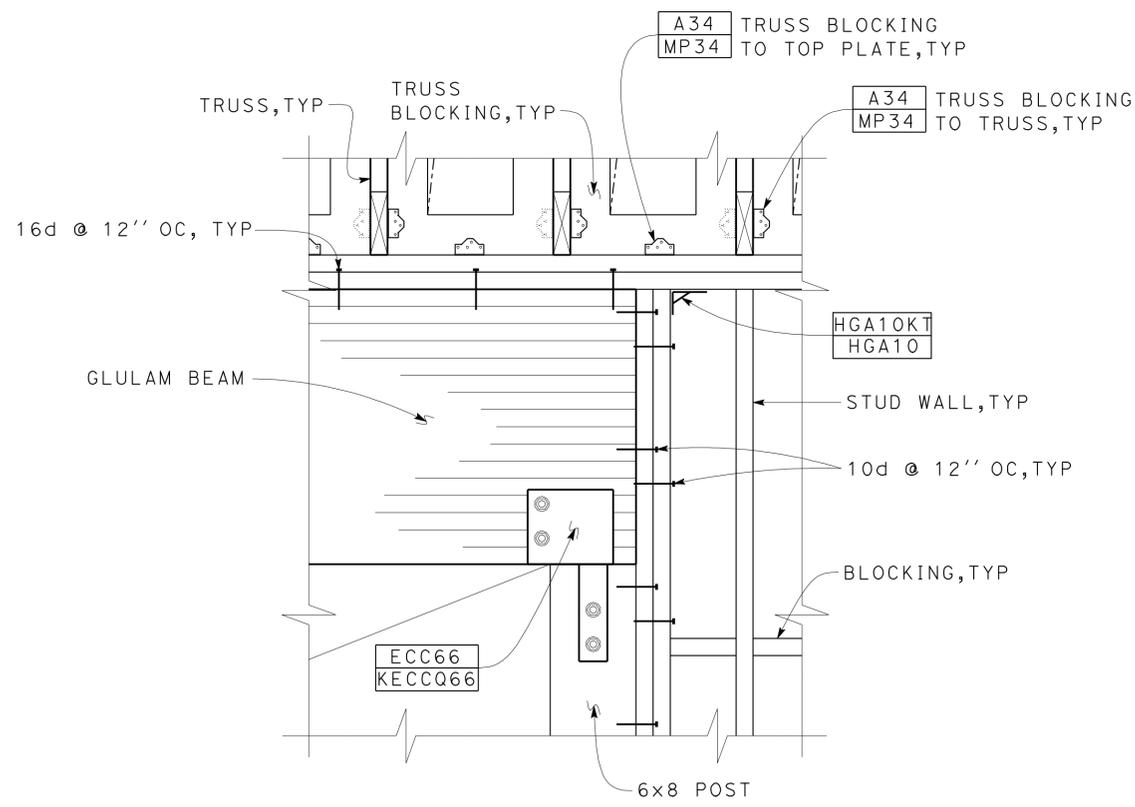
LEE VINING MAINTENANCE STATION  
CREW ROOM BUILDING  
ROOF FRAMING DETAILS

SHEET	ST1-10
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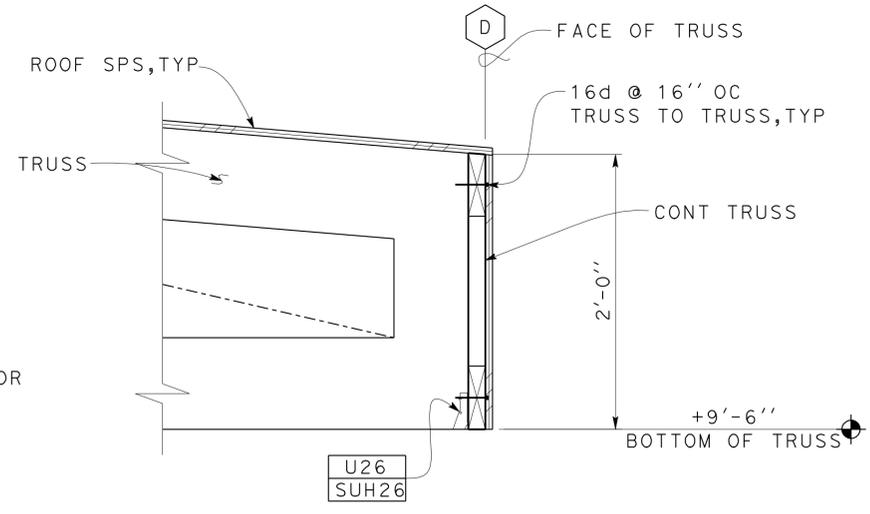
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	51.5	41	68
 REGISTERED CIVIL ENGINEER		11-14-12 DATE			
3-11-13 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					



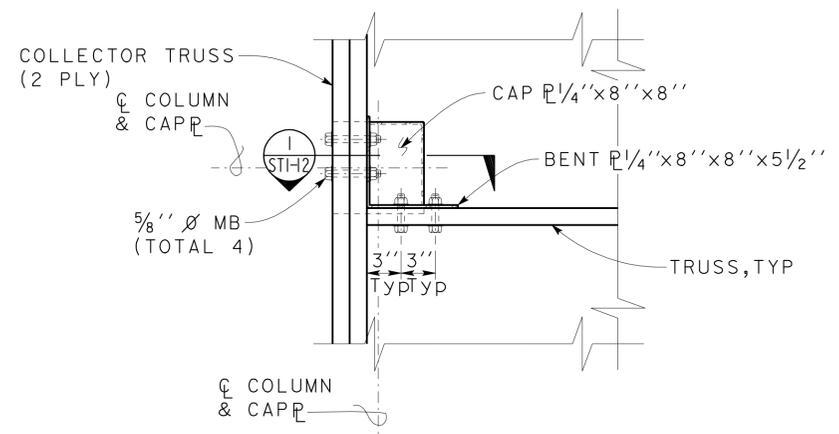
**1 POST CONNECTION DETAIL**  
Scale 1 1/2" = 1' - 0"



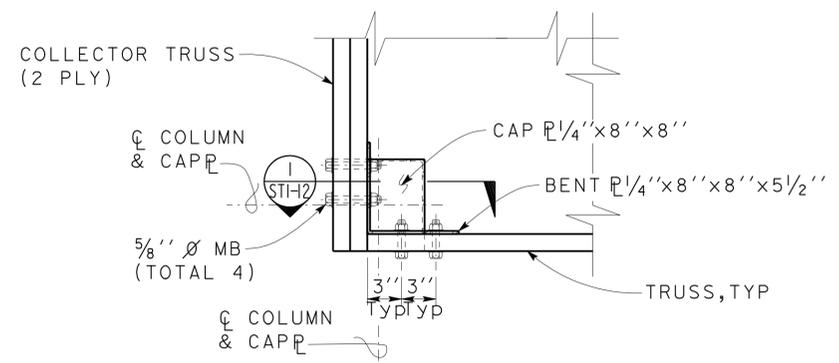
**2 HEADER TO POST DETAIL**  
Scale 1 1/2" = 1' - 0"



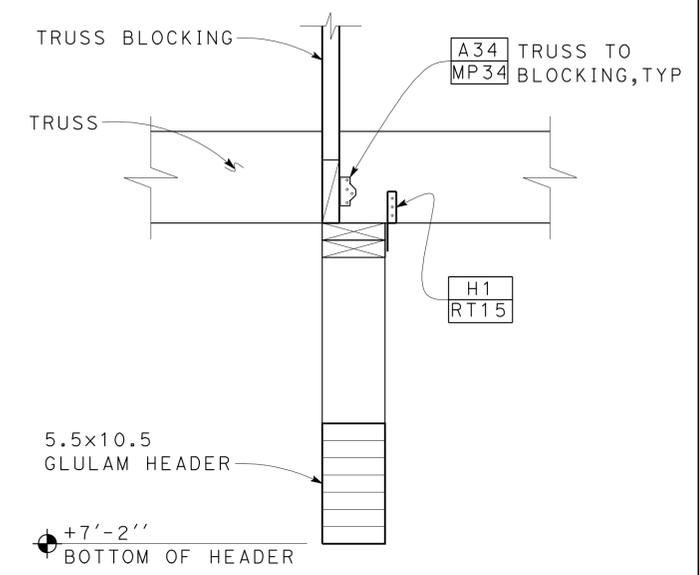
**3 TRUSS TO TRUSS CONNECTION DETAIL**  
Scale 1 1/2" = 1' - 0"



**4 COLUMN TO TRUSS CONNECTION DETAIL**  
Scale 1 1/2" = 1' - 0"



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



**6 HEADER DETAIL**  
Scale 1 1/2" = 1' - 0"

DESIGN	BY JUSTIN UYEHARA	CHECKED DAI LU	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 48M5710	LEE VINING MAINTENANCE STATION CREW ROOM BUILDING	SHEET ST1-11
	DETAILS	BY P. VON SAVOYE			CHECKED DAI LU		
QUANTITIES	BY	CHECKED	UNIT PROJECT NUMBER & PHASE EA 3599 09120000291	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF	

TAEMWW Imperial Rev. 7/10

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT PROJECT NUMBER & PHASE EA 3599 09120000291

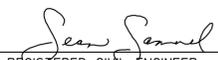
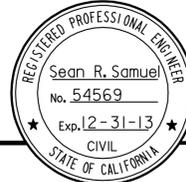
DISREGARD PRINTS BEARING EARLIER REVISION DATES

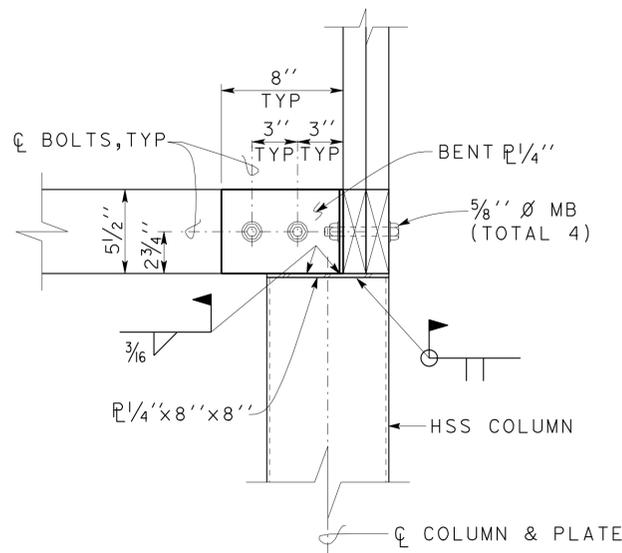
REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET OF

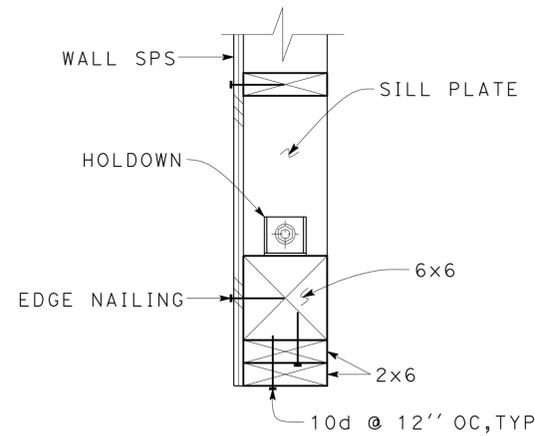
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13-MAR-2013 07:57

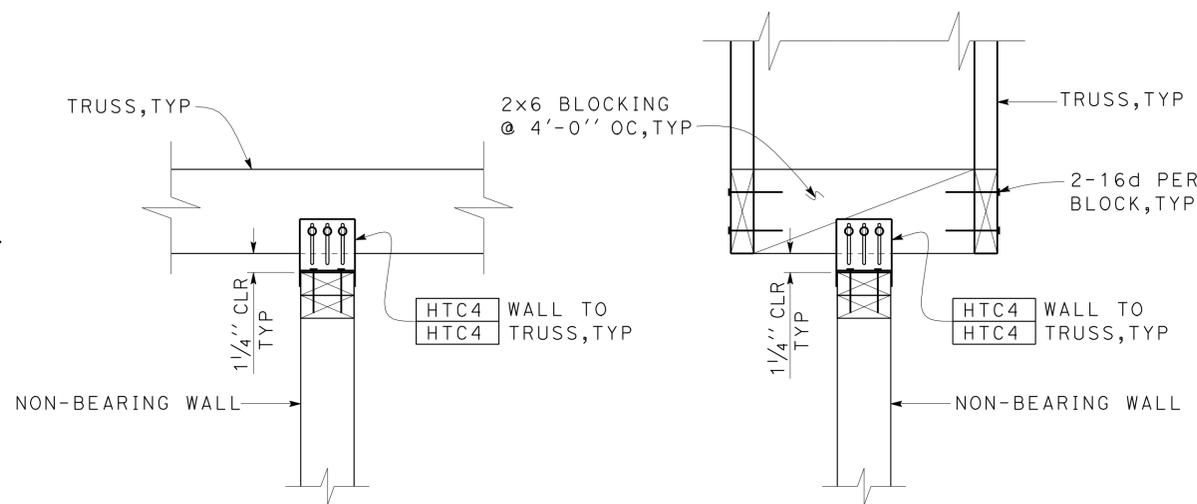
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	51.5	42	68
 REGISTERED CIVIL ENGINEER			11-14-12	DATE	
			3-11-13 PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					



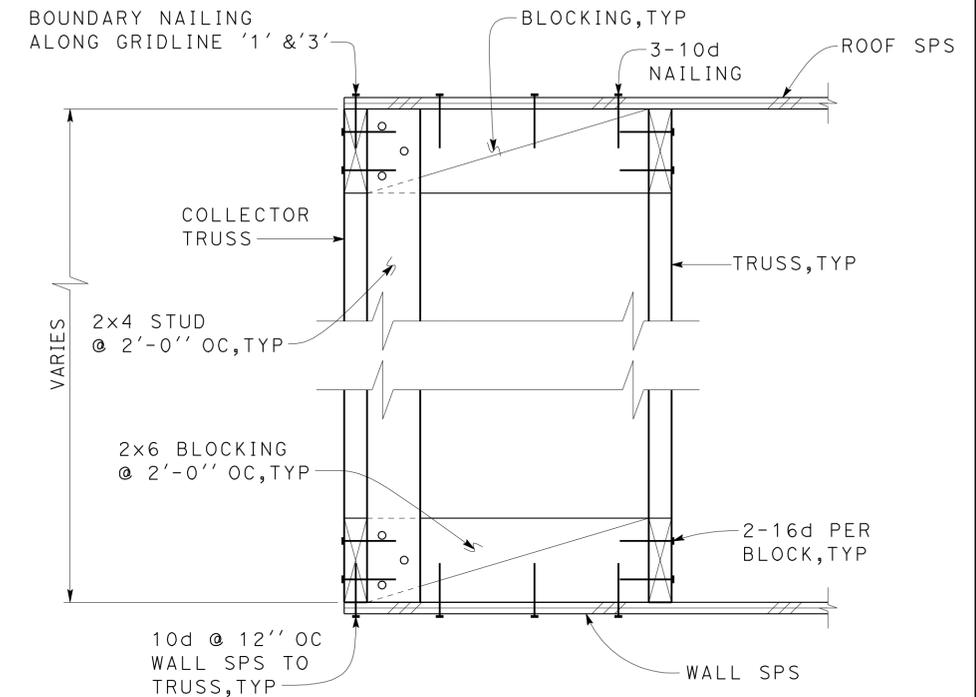
**1** TRUSS TO COLUMN CONNECTION DETAIL  
Scale 2" = 1' - 0"



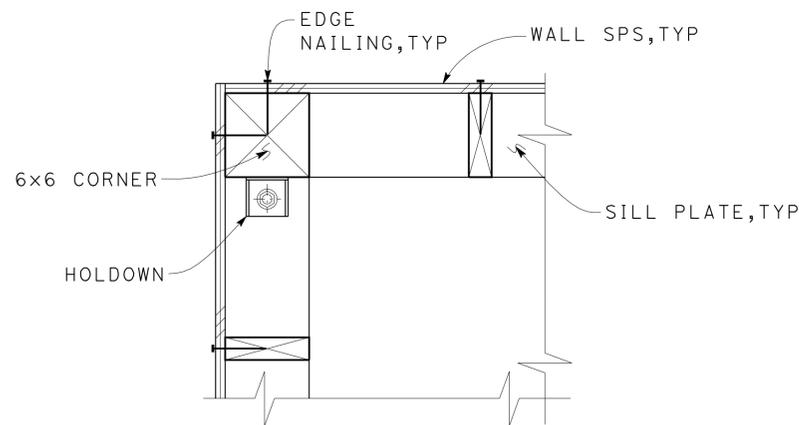
**3** END WALL HOLDOWN DETAIL  
Scale 2" = 1' - 0"



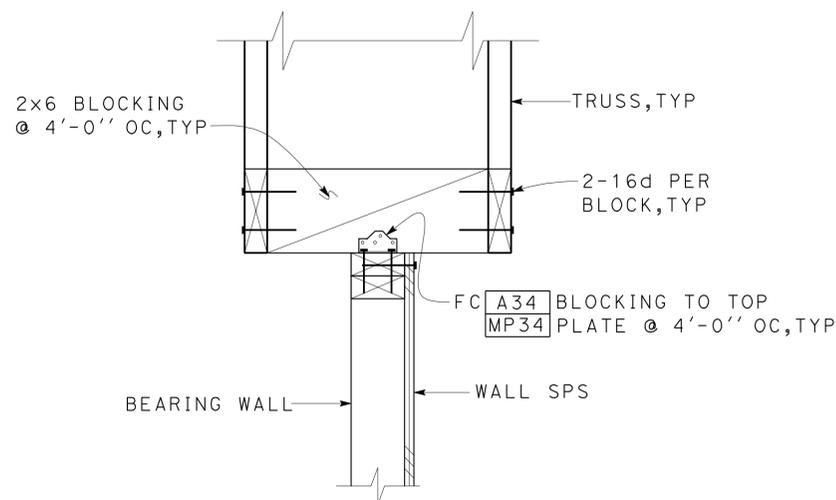
**4** NON-BEARING WALL CONNECTION DETAIL  
Scale 2" = 1' - 0"



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



**2** CORNER HOLDOWN DETAIL  
Scale 2" = 1' - 0"



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

DESIGN	BY JUSTIN UYEHARA	CHECKED DAI LU
DETAILS	BY P. VON SAVOYE	CHECKED DAI LU
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES  
ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE NO. 48M5710  
POST MILE

LEE VINING MAINTENANCE STATION  
CREW ROOM BUILDING  
FRAMING & MISCELLANEOUS DETAILS

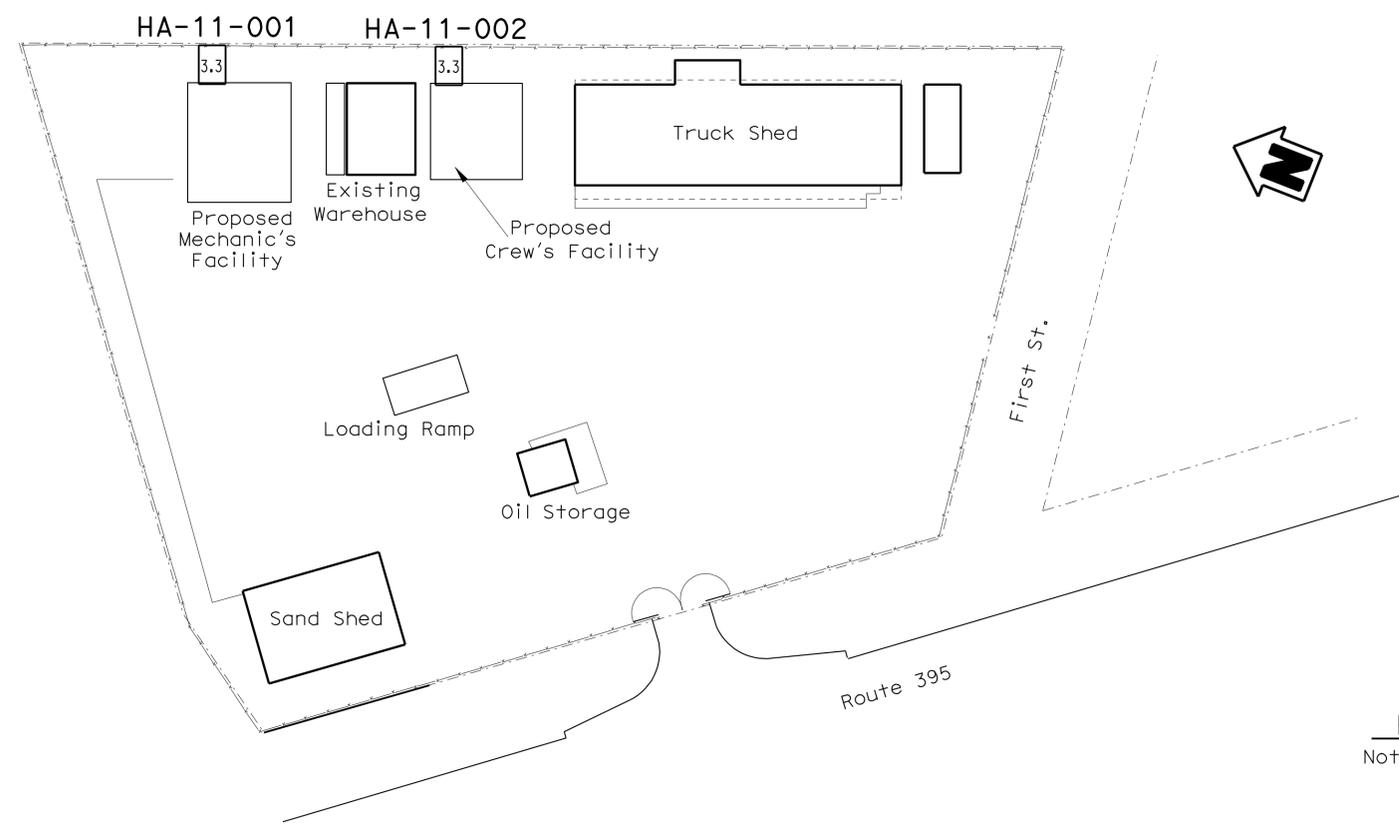
SHEET ST1-12 OF

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Mno	395	51.5	43	68

Thomas N. Song  
 REGISTERED CIVIL ENGINEER  
 DATE 10-12-11  
 3-11-13  
 PLANS APPROVAL DATE  
 No. C69325  
 Exp. 6-30-12  
 CIVIL  
 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.

This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, & Presentation Manual (2010 Edition).

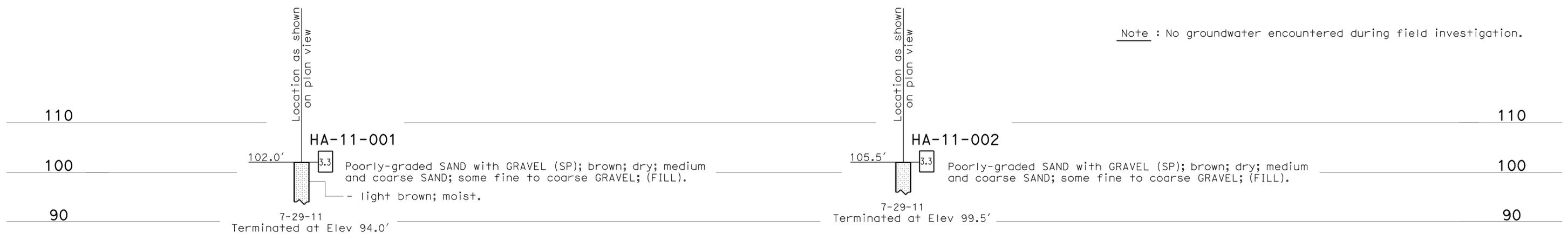


**PLAN**  
Not To Scale

**BENCH MARK**

Temp Benchmark taken as Top of Existing Inground Concrete Stormwater Inlet. Assumed Elev = 100.00'

**LEE VINING HIGHWAY MAINTENANCE STATION MECHANIC'S FACILITY**



Note : No groundwater encountered during field investigation.

**PROFILE**  
Horiz: Not To Scale  
Vert: 1" = 10'

<b>ENGINEERING SERVICES</b>		<b>MATERIALS AND GEOTECHNICAL SERVICES</b>		<b>STATE OF CALIFORNIA</b>		<b>DIVISION OF ENGINEERING SERVICES</b>		<b>LEE VINING MAINTENANCE STATION</b>		<b>SHEET</b>	
FUNCTIONAL SUPERVISOR		DRAWN BY: W. Tang 09/11		DEPARTMENT OF TRANSPORTATION		BRIDGE NO. 48M5710		CREW ROOM BUILDING		ST1-13	
NAME: Q. Huang		CHECKED BY: C. Zh-Ru		FIELD INVESTIGATION BY: T. Song		POST MILE 51.53		<b>LOG OF TEST BORINGS 1 OF 3</b>		OF	
065 CIVIL LOG OF TEST BORINGS SHEET		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3643		PROJECT NUMBER & PHASE: 09120000291		CONTRACT NO.: 09-352301		REVISION DATES	
				0 1 2 3				DISREGARD PRINTS BEARING EARLIER REVISION DATES		SHEET OF	
				FILE => s+1_13.dgn				09-21-11 10-07-11		X X	

USERNAME => s119571 DATE PLOTTED => 13-MAR-2013 TIME PLOTTED => 07:57

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Mno	395	51.5	44	68

Thomas N. Song  
 REGISTERED CIVIL ENGINEER  
 DATE 10-12-11  
 3-11-13  
 PLANS APPROVAL DATE

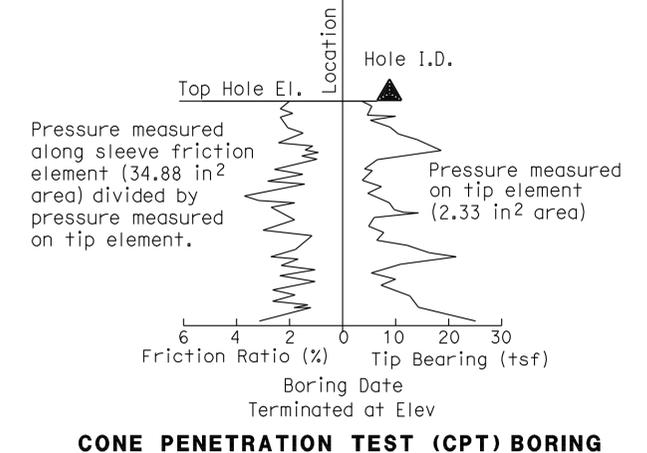
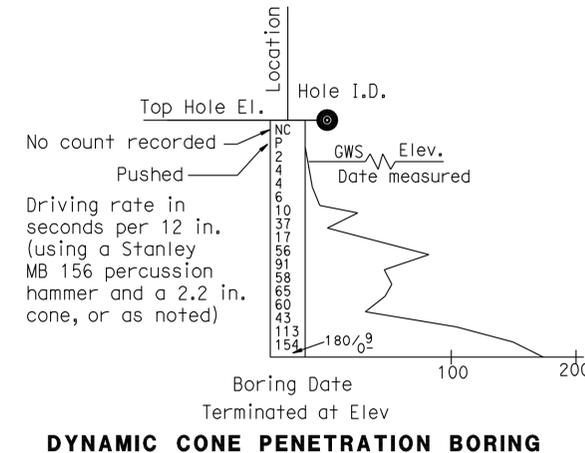
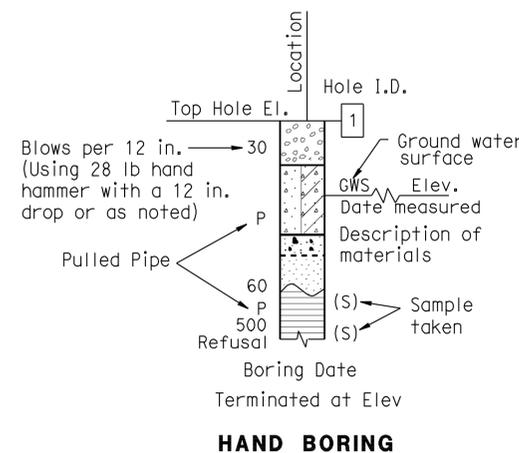
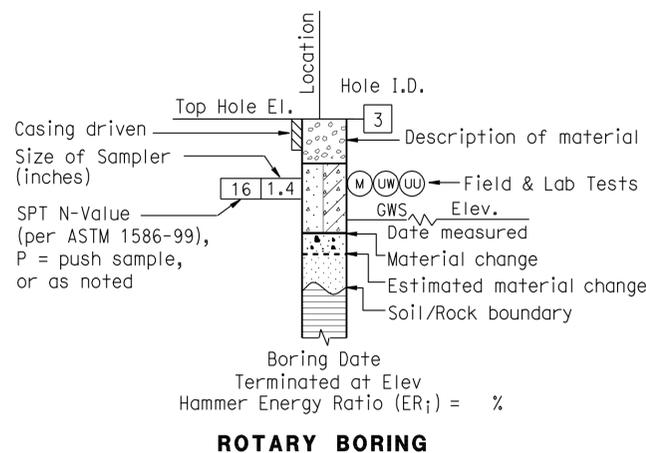
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CEMENTATION	
Description	Criteria
Weak	Crumbles or breaks with handling or little finger pressure.
Moderate	Crumbles or breaks with considerable finger pressure.
Strong	Will not crumble or break with finger pressure.

BOREHOLE IDENTIFICATION		
Symbol	Hole Type	Description
	A	Auger Boring (hollow or solid stem bucket)
	R	Rotary drilled boring (conventional)
	RW	Rotary drilled with self-casing wire-line
	RC	Rotary core with continuously-sampled, self-casing wire-line
	P	Rotary percussion boring (air)
	R	Rotary drilled diamond core
	RC	Rotary drilled rock core
	HD	Hand driven (1-inch soil tube)
	HA	Hand Auger
	D	Dynamic Cone Penetration Boring
	CPT	Cone Penetration Test (ASTM D 5778)
	O	Other (note on LOTB)

**Note: Size in inches.**

CONSISTENCY OF COHESIVE SOILS				
Description	Shear Strength (tsf)	Pocket Penetrometer Measurement, PP, (tsf)	Torvane Measurement, TV, (tsf)	Vane Shear Measurement, VS, (tsf)
Very Soft	Less than 0.12	Less than 0.25	Less than 0.12	Less than 0.12
Soft	0.12 - 0.25	0.25 - 0.5	0.12 - 0.25	0.12 - 0.25
Medium Stiff	0.25 - 0.5	0.5 - 1	0.25 - 0.5	0.25 - 0.5
Stiff	0.5 - 1	1 - 2	0.5 - 1	0.5 - 1
Very Stiff	1 - 2	2 - 4	1 - 2	1 - 2
Hard	Greater than 2	Greater than 4	Greater than 2	Greater than 2



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Mno	395	51.5	45	68

Thomas N. Song  
 REGISTERED CIVIL ENGINEER  
 10-12-11 DATE  
 3-11-13  
 PLANS APPROVAL DATE  
 Thomas N. Song  
 No. C69325  
 Exp. 6-30-12  
 CIVIL  
 STATE OF CALIFORNIA  
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GROUP SYMBOLS AND NAMES					
Graphic/Symbol	Group Names	Graphic/Symbol	Group Names	Graphic/Symbol	Group Names
	Well-graded GRAVEL		CL		Lean CLAY
	Well-graded GRAVEL with SAND				Lean CLAY with SAND
	Poorly-graded GRAVEL		CL-ML		Lean CLAY with GRAVEL
	Poorly-graded GRAVEL with SAND				SANDY lean CLAY
	Well-graded GRAVEL with SILT		ML		SANDY lean CLAY with GRAVEL
	Well-graded GRAVEL with SILT and SAND				GRAVELLY lean CLAY
	Well-graded GRAVEL with CLAY (or SILTY CLAY)		OL		GRAVELLY lean CLAY with SAND
	Well-graded GRAVEL with CLAY and SAND (or SILTY CLAY and SAND)				SILTY CLAY
	Poorly-graded GRAVEL with SILT		OL		SILTY CLAY with SAND
	Poorly-graded GRAVEL with SILT and SAND				SILTY CLAY with GRAVEL
	Poorly-graded GRAVEL with CLAY (or SILTY CLAY)		OL		SANDY SILTY CLAY
	Poorly-graded GRAVEL with CLAY and SAND (or SILTY CLAY and SAND)				SANDY SILTY CLAY with GRAVEL
	SILTY GRAVEL		CH		GRAVELLY SILTY CLAY
	SILTY GRAVEL with SAND				GRAVELLY SILTY CLAY with SAND
	CLAYEY GRAVEL		MH		ORGANIC lean CLAY
	CLAYEY GRAVEL with SAND				ORGANIC lean CLAY with SAND
	SILTY, CLAYEY GRAVEL		OH		ORGANIC lean CLAY with GRAVEL
	SILTY, CLAYEY GRAVEL with SAND				SANDY ORGANIC lean CLAY
	Well-graded SAND		OH		GRAVELLY ORGANIC lean CLAY
	Well-graded SAND with GRAVEL				GRAVELLY ORGANIC lean CLAY with SAND
	Poorly-graded SAND		OH		ORGANIC SILT
	Poorly-graded SAND with GRAVEL				ORGANIC SILT with SAND
	Well-graded SAND with SILT		OH		ORGANIC SILT with GRAVEL
	Well-graded SAND with SILT and GRAVEL				SANDY ORGANIC SILT
	Well-graded SAND with CLAY (or SILTY CLAY)		OH		SANDY ORGANIC SILT with GRAVEL
	Well-graded SAND with CLAY and GRAVEL (or SILTY CLAY and GRAVEL)				GRAVELLY ORGANIC SILT
	Poorly-graded SAND with SILT		OL/OH		GRAVELLY ORGANIC SILT with SAND
	Poorly-graded SAND with SILT and GRAVEL				ORGANIC SOIL
	Poorly-graded SAND with CLAY (or SILTY CLAY)		OL/OH		ORGANIC SOIL with SAND
	Poorly-graded SAND with CLAY and GRAVEL (or SILTY CLAY and GRAVEL)				ORGANIC SOIL with GRAVEL
	SILTY SAND		OL/OH		SANDY ORGANIC SOIL
	SILTY SAND with GRAVEL				SANDY ORGANIC SOIL with GRAVEL
	CLAYEY SAND		OL/OH		GRAVELLY ORGANIC SOIL
	CLAYEY SAND with GRAVEL				GRAVELLY ORGANIC SOIL with SAND
	SILTY, CLAYEY SAND		OL/OH		COBBLES
	SILTY, CLAYEY SAND with GRAVEL				COBBLES and BOULDERS
	PEAT		OL/OH		BOULDERS
	PEAT				

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
(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)
(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)

APPARENT DENSITY OF COHESIONLESS SOILS	
Description	SPT N <sub>60</sub> (Blows / 12 in.)
Very Loose	0 - 5
Loose	5 - 10
Medium Dense	10 - 30
Dense	30 - 50
Very Dense	Greater than 50

MOISTURE	
Description	Criteria
Dry	No discernable moisture
Moist	Moisture present, but no free water
Wet	Visible free water

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

PARTICLE SIZE		
Description	Size (in.)	
Boulder	Greater than 12	
Cobble	3 - 12	
Gravel	Coarse	3/4 - 3
	Fine	1/5 - 3/4
Sand	Coarse	1/16 - 1/5
	Medium	1/64 - 1/16
	Fine	1/300 - 1/64
Silt and Clay	Less than 1/300	

ENGINEERING SERVICES	MATERIALS AND GEOTECHNICAL SERVICES	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH X	BRIDGE NO. 48M5710	LEE VINING MAINTENANCE STATION CREW ROOM BUILDING	SHEET ST1-15
				POST MILE 51.53		
PREPARED BY: W. Tang 09/11		UNIT: 3643 PROJECT NUMBER & PHASE: 09120000291	CONTRACT NO.: 09-352301	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET OF X X

GS LOTB SOIL LEGEND ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 FILE => s+1\_15.dgn

USERNAME => s128843 DATE PLOTTED => 13-MAR-2013 TIME PLOTTED => 07:59

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	51.5	46	68

Shahjahan Ali 06/14/12  
 REGISTERED MECHANICAL ENGINEER DATE

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

3-11-13  
 PLANS APPROVAL DATE

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**PLUMBING**

— — — — —	Cold water
— A — — —	Compressed air
— G — — —	GAS
— D — — —	Equipment drain
— F — — —	Fire water
— — — — —	Hot water
— — — — —	Hot water return
— LPG — —	Liquified petroleum gas
— R — — —	Relief valve discharge pipe
— SS — — —	Sanitary sewer
— — — — —	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 valve and snubber)
	Strainer
	Union
	Union, insulating
	Valve, ball
	Valve, check
	Valve, gas
	Valve, gate
	Valve, safety relief
	Valve, pressure reducing
	Valve, pressure/temperature relief
	Water hammer arrestor

**MECHANICAL ABBREVIATIONS**

A/C	Air Conditioning	H	Height
ABS	Acrylonitrile Butadiene Styrene	HB	Hydrant Box
AC	Asphalt Concrete	H/C	Hot Water, High Pressure Cleaner
AD	Air Drop	HF	Hose Faucet
AP	Alternative Pipe	HVAC	Heating, Ventilating And Air Conditioning
ATF	Automatic Transmission Fluid	HW	Hot Water
AWG	American Wire Gauge	HZ	Hertz
BFP	Backflow Preventer	ID	Inside Diameter
Bldg	Building	IE	Invert Elevation
BTU	British Thermal Unit	IN	Inch
BTUH	British Thermal Unit Per Hour	IPS	International Pipe Standard
BV	Balancing Valve	KS	Kitchen Sink
C	Conduit	LAV	Lavatory
CD	Ceiling Diffuser	LPG	Liquified Petroleum Gas
CFM	Cubic Feet Per Minute	MAX	Maximum
CI	Cast-Iron	MAN	Manhole
Co	Cleanout	MIN	Minimum
COTF	Cleanout Through Floor	NIC	Not In Contract
COTG	Cleanout Through Grade	NO	Number
COTW	Cleanout To Wall	NPT	National Pipe Thread
CV	Check Valve	NST	National Standard Thread
CW	Cold Water	OA	Outside Air
D	Depth	OC	On Center
DB	Dry Bulb	OD	Outside Diameter
DF	Drinking Fountain	OG	Original Ground
DH	Duct Heater	OG	Original Ground
Dia	Diameter	PCC	Portland Cement Concrete
(E)	Existing	PH	Phase
EA	Exhaust Air	PRV	Pressure Reducing Valve
EEW	Emergency Eyewash And Shower	PSI	Pounds Per Square Inch
EF	Exhaust Fan	PVC	Polyvinyl Chloride
EI	Elevation	R	Radius
EWC	Electric Water Cooler	Reg	Register
EWH	Electric Water Heater	RA	Return Air
FC	Flexible Connection	RCP	Reinforced Concrete Pipe
FD	Floor Drain	REG	Required
FDC	Fire Department Connection	RH	Radiant Heater
FE	Fire Extinguisher	RV	Relief Valve
FG	Finish Grade	S/S	Service Sink
FH	Fire Hydrant	SA	Supply Air
FL	Flow Line	SCH	Schedule
FS	Flow Switch	SDS	Sanitary Dump Station
GA	Gauge	SF	Supply Fan
GALV	Galvanized	SHR	Shower
GLV	Globe Valve	SP	Static Pressure
GPM	Gallons Per Minute	SS	Sanitary Sewer
GSP	Galvanized Steel Pipe	STA	Station
GV	Gate Valve	STD	Standard
GWH	Gas Water Heater		
GYP	Gypsum		
TCV	Temperature Control Valve		
TOT	Total		
TS	Time Switch		
TYP	Typical		
UH	Unit Heater		
UR	Urinal		
V	Volt		
VAC	Voltage, Alternating Current		
VR	Vent Riser		
VTR	Vent Thru Roof		
W	Width		
W/	With		
W/O	Without		
WB	Wet Bulb		
WC	Water Closet		
W.C.	Water Column		
WH	Wall Heater		
WHA	Water Hammer Arrestor		
WLS	Water Level Switch		
Wp	Weatherproof		
WS	Wash Sink		
WSP	Welded Steel Pipe		

**HEATING, VENTILATING AND AIR CONDITIONING**

	Balance damper
	Flexible duct
— EA — — —	Exhaust air
— OA — — —	Outside air
— RA — — —	Return air
— SA — — —	Supply air
	Exhaust register
	Return register
	Supply diffuser
	Thermostat
	Time switch
	Motorized zone damper
	Three wire test station
	Exhaust fan
	Fire extinguisher

**MISCELLANEOUS**

L	Angle
	Centerline
∅	Diameter
	Section / elevation letter
	Sheet number
	Detail number
	Sheet number

THIS DRAWING ACCURATE FOR MECHANICAL WORK ONLY

DESIGN BY SHAHJAHAN ALI	CHECKED SEVE GUTIERREZ	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 48M5710	<b>LEE VINING MAINTENANCE STATION          CREW ROOM BUILDING</b>	SHEET	
DETAILS BY ANGELA CHEN	CHECKED SEVE GUTIERREZ		ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	POST MILE X		<b>ABBREVIATION AND LEGENDS</b>	OF
QUANTITIES BY SHAHJAHAN ALI	CHECKED SEVE GUTIERREZ		UNIT PROJECT NUMBER & PHASE 3615 09120000291	DISREGARD PRINTS BEARING EARLIER REVISION DATES			REVISION DATES (PRELIMINARY STAGE ONLY) 01-20-12 03-01-12 04-25-12 06-14-12
TAEMWW Imperial Rev. 7/10	FILE => m0_0.dgn DATE PLOTTED => 13-MAR-2013	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	EA 35440			13-MAR-2013 07:59	

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	51.5	47	68

Shahjahan Ali 06/14/12  
 REGISTERED MECHANICAL ENGINEER DATE

3-11-13  
 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: *Ingrid P. Casiano*  
 INGRID P. CASIANO  
 Approval date: 11-27-12  
 CSFM FILE NO. 01-26-11-0000

NOTE:

Only last page of each form is included on this sheet. Other pages of these forms and other applicable forms are available upon request.

### CERTIFICATE OF COMPLIANCE and FIELD INSPECTION ENERGY CHECKLIST (Part 5 of 5) MECH-1C

Project Name: LEE VINING MAINTENANCE STATION CREW ROOM BUILDING Date: JANUARY 20, 2012

**Documentation Author's Declaration Statement**

I Certify That This Certificate of Compliance Documentation is Accurate and Complete.

Name: SHAHJAHAN ALI Signature: *Shahjahan Ali*

Company: DEPARTMENT OF TRANSPORTATION, (CALTRANS) Date: APRIL 25, 2012

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

City/State/Zip: SACRAMENTO, CA 95816 Phone: (916)227-8534

**Principal Mechanical Designer's Declaration Statement**

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

Name: SHAHJAHAN ALI Signature: *Shahjahan Ali*

Company: DEPARTMENT OF TRANSPORTATION, (CALTRANS) Date: APRIL 25, 2012

Address: 1801 30TH STREET License# M32144

City/State/Zip: SACRAMENTO, CA 95816 Phone: (916)227-8534

**Mandatory Measures**

Indicate location on building plans of Note Block for Manatory Measures: On File

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

For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms, refer to the 2008 Nonresidential Manual Note: The Enforcement Agency may require all forms to be incorporated onto the building plans.

<input checked="" type="checkbox"/>	MECH-1C	Certificate of Compliance. Required on plans for all submittals.
<input type="checkbox"/>	MECH-2C	Mechanical Equipment Summary is required for all submittals.
<input type="checkbox"/>	MECH-3C	Mechanical Ventilation and Reheat is required for all submittals with mechanical ventilation.
<input type="checkbox"/>	MECH-4C	Fan Power Consumption is required for all prescriptive submittals.

**2008 Nonresidential Compliance Forms**

### CERTIFICATE OF COMPLIANCE and FIELD INSPECTION ENERGY CHECKLIST (Part 4 of 4) ENV -1C

Project Name: LEE VINING MAINTENANCE STATION CREW ROOM BUILDING Date: JANUARY 20, 2012 Climate Zone: 12

**Documentation Author's Declaration Statement**

I Certify That This Certificate of Compliance Documentation is Accurate and Complete.

Name: SHAHJAHAN ALI Signature: *Shahjahan Ali*

Company: DEPARTMENT OF TRANSPORTATION, (CALTRANS) Date: APRIL 25, 2012

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

City/State/Zip: SACRAMENTO, CA 95816 Phone: (916)227-8534

**Principal Designer's Declaration Statement**

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

Name: HASSAN AKHAVAN Signature: *Hassan Akhavan*

Company: DEPARTMENT OF TRANSPORTATION, (CALTRANS) Date: APRIL 30, 2013

Address: 1801 30TH STREET License# C-20451

City/State/Zip: SACRAMENTO, CA 95816 Phone: (916)227-8362

**Envelope Mandatory Measures**

Indicate location on building plans of Mandatory Envelope Measures Note Block: ON FILE

**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 Compliance Manual.

<input checked="" type="checkbox"/>	ENV-1C	Certificate of Compliance and Field Inspections Energy Checklist required on plans for all submittals.
<input type="checkbox"/>	ENV-2C	Use with the Envelope Component Approach. Optional on Plans.
<input type="checkbox"/>	ENV-3C	Use with the Overall Envelope TDV Energy Approach. Optional on plans.
<input type="checkbox"/>	ENV-4C	Use when minimum skylight requirements for large enclosed spaces are required in climate zones 2 through 15. Optional on plans.

**2008 Nonresidential Compliance Forms**

THIS DRAWING ACCURATE FOR MECHANICAL WORK ONLY

DESIGN BY: SHAHJAHAN ALI	CHECKED: SEVE GUTIERREZ	STATE OF CALIFORNIA	DIVISION OF ENGINEERING SERVICES	BRIDGE NO.	LEE VINING MAINTENANCE STATION CREW ROOM BUILDING	SHEET
				48M5710		
DETAILS BY: ANGELA CHEN	CHECKED: SEVE GUTIERREZ	DEPARTMENT OF TRANSPORTATION	ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	POST MILE	CERTIFICATE OF COMPLIANCE FORMS	OF
QUANTITIES BY: SHAHJAHAN ALI	CHECKED: SEVE GUTIERREZ			X		
TAEMWW Imperial Rev. 7/10	FILE => m0_1.dgn	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT PROJECT NUMBER & PHASE	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	
	DATE PLOTTED => 13-MAR-2013	0 1 2 3	3615 09120000291		01-20-12   03-01-12   04-25-12   06-14-12	
	TIME PLOTTED => 07:59		EA 35440			

13-MAR-2013 07:59

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	51.5	48	68

<i>Shahjahan Ali</i>		06/14/12
REGISTERED MECHANICAL ENGINEER	DATE	

3-11-13
PLANS APPROVAL DATE

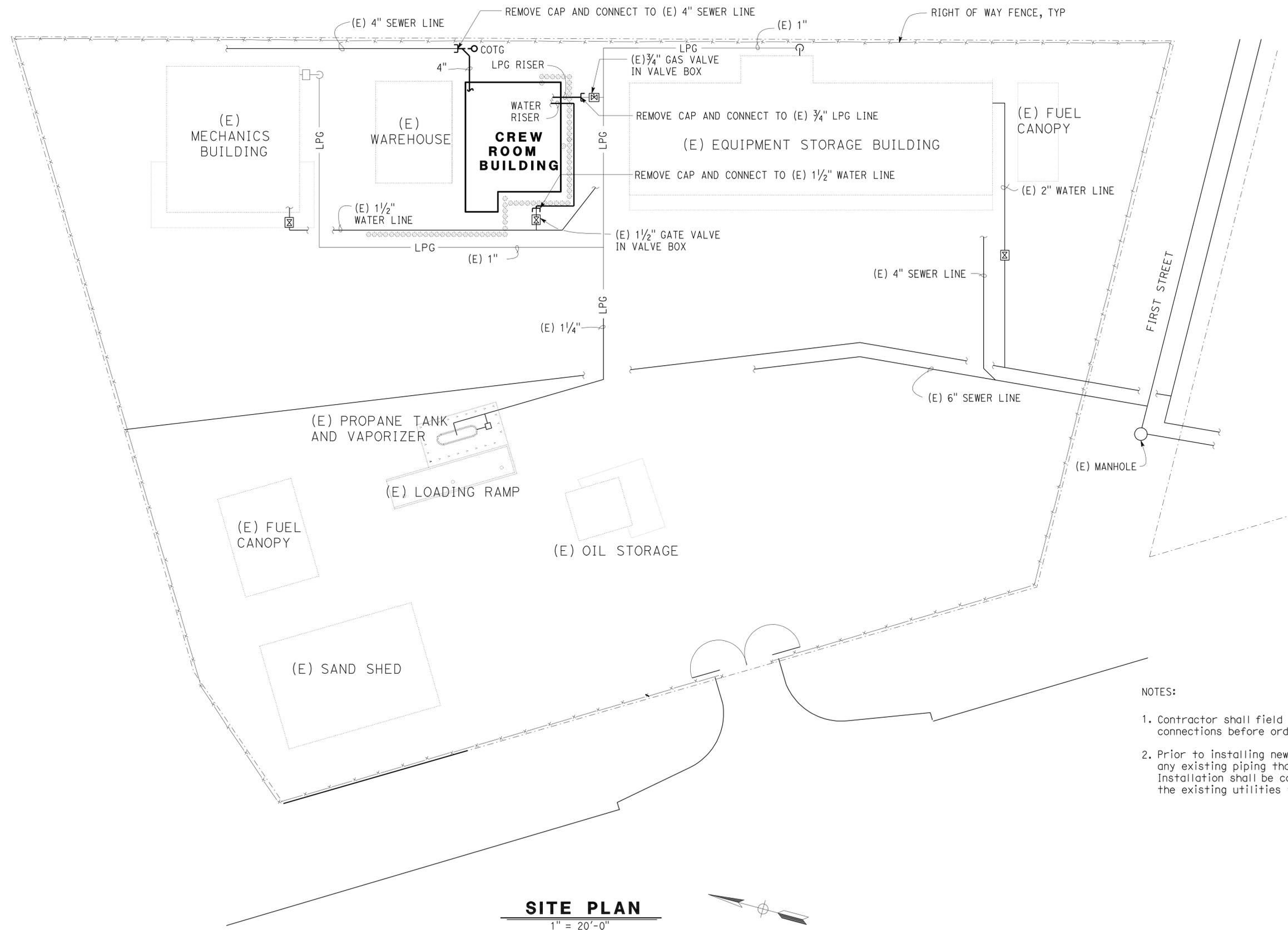
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**CALIFORNIA STATE FIRE MARSHAL APPROVED**

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Reviewed by: *Ingrid P. Casiano*  
 INGRID P. CASIANO  
 Approval date: 11-27-12  
 CSFM FILE NO. 11-26-11-0009



- NOTES:
- Contractor shall field verify (E) site equipment and utility connections before ordering and fabricating any material.
  - Prior to installing new pipes the contractor shall locate any existing piping that must be crossed by the new pipes. Installation shall be completed without disruption of any of the existing utilities that are not part of this contract.

**SITE PLAN**  
 1" = 20'-0"

THIS DRAWING ACCURATE FOR MECHANICAL WORK ONLY

DESIGN SUPERVISOR <i>Paul Schreff</i> DESIGN ENGINEER <i>Shahjahan Ali</i>	DESIGN BY	SHAHJAHAN ALI	CHECKED	SEVE GUTIERREZ	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO.	<b>LEE VINING MAINTENANCE STATION</b> <b>CREW ROOM BUILDING</b> <b>SITE PLAN</b>	SHEET
	DETAILS BY	ANGELA CHEN	CHECKED	SEVE GUTIERREZ		ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	48M5710		POST MILE X
QUANTITIES BY	SHAHJAHAN ALI	CHECKED	SEVE GUTIERREZ	UNIT PROJECT NUMBER & PHASE		3615 09120000291	DISREGARD PRINTS BEARING EARLIER REVISION DATES		
TAEMWW Imperial Rev. 7/10 FILE => m0_2.dgn DATE PLOTTED => 13-MAR-2013 TIME PLOTTED => 08:00	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3				EA 35440	SHEET OF			

13-MAR-2013 08:00 m0\_2.dgn

EXISTING WAREHOUSE

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	51.5	49	68

*Shahjahan Ali* 06/14/12  
 REGISTERED MECHANICAL ENGINEER DATE

3-11-13  
 PLANS APPROVAL DATE

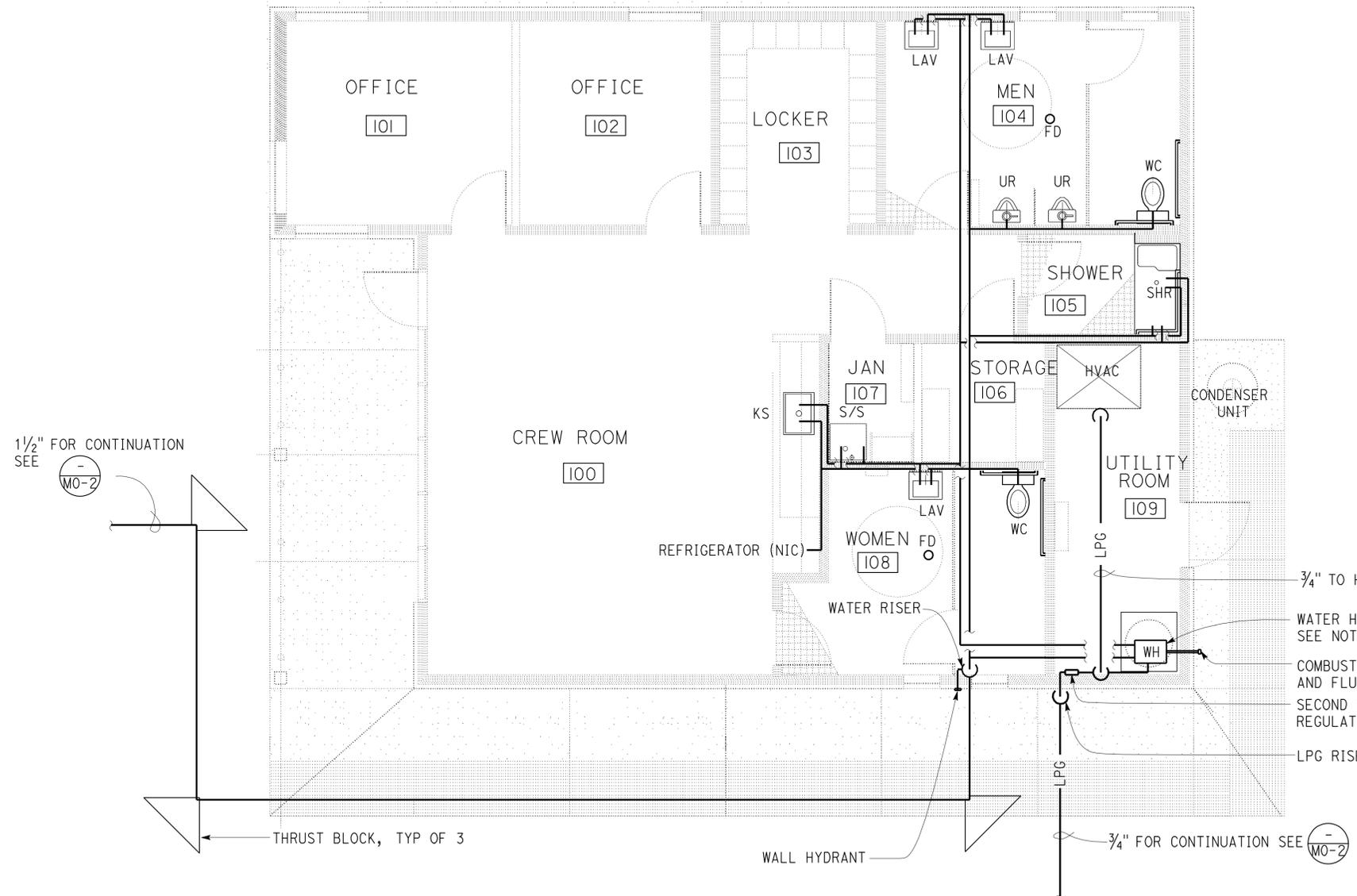
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NOTES:

1. Second Stage LPG Pressure Regulator, 10 PSI input and 11 inches W.C. output, 215,000 BTUH capacity
2. Water Heater shall be tankless type, 180,000 BTUH maximum input heating, LPG operation, heat-on-demand capacity, forced combustion / direct vent and combustion air intake through wall, 115 V, 1 PH
3. For water line connection to floor drain through trap primer, see  $\text{M1-3}$  and  $\text{M2-2}$

**WATER AND LPG PLAN**

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



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DESIGN BY SHAHJAHAN ALI CHECKED SEVE GUTIERREZ DETAILS BY ANGELA CHEN CHECKED SEVE GUTIERREZ QUANTITIES BY SHAHJAHAN ALI CHECKED SEVE GUTIERREZ	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	<b>LEE VINING MAINTENANCE STATION          CREW ROOM BUILDING          PLUMBING PLAN I</b>	SHEET
			48M5710		<b>M1-0</b>
PROJECT NUMBER & PHASE	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF	
09120000291	EA 35440	01-20-12   03-01-12   04-25-12   06-14-12			

13-MAR-2013 08:00

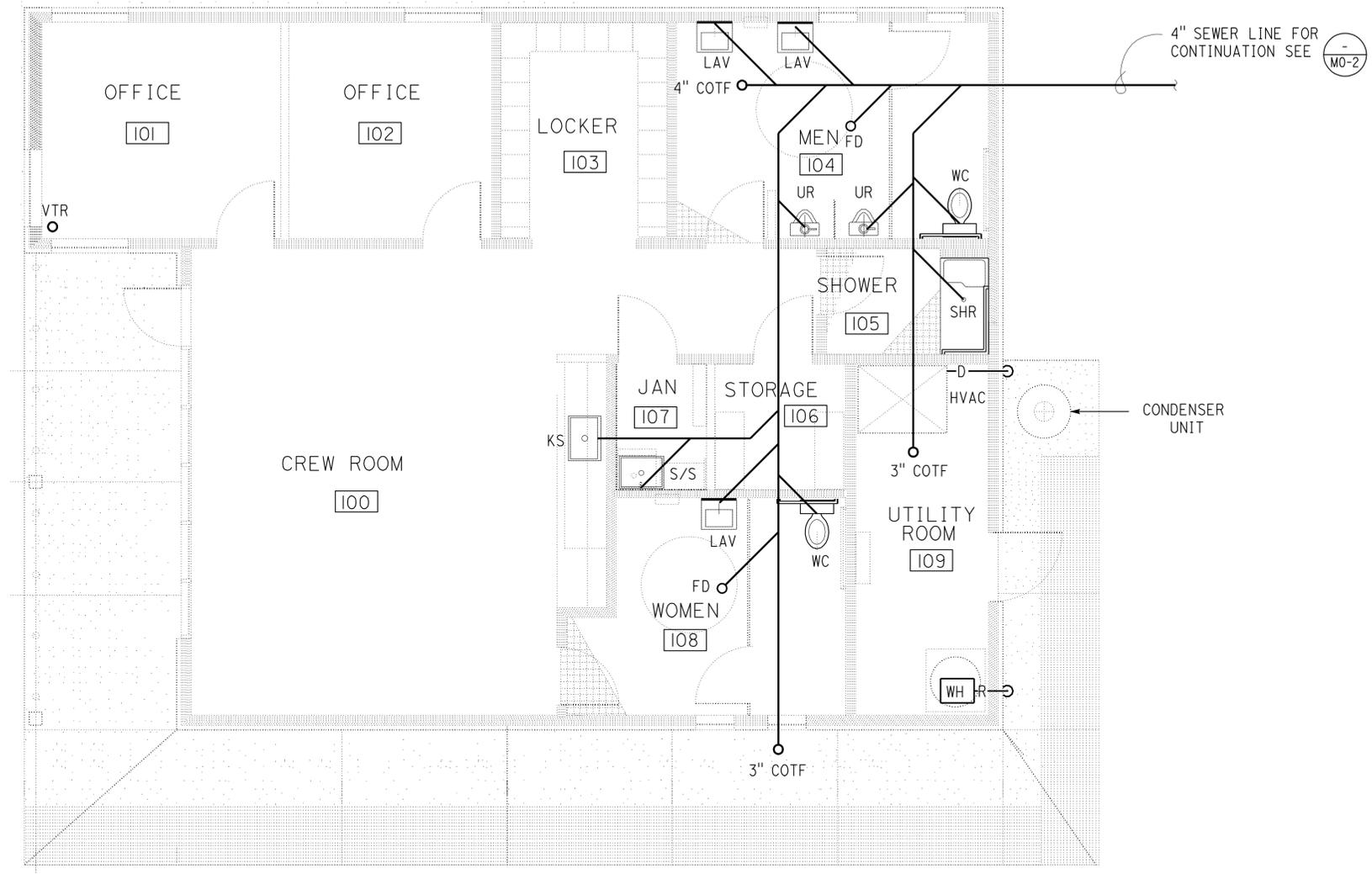
EXISTING WAREHOUSE

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	51.5	50	68

*Shahjahan Ali* 06/14/12  
 REGISTERED MECHANICAL ENGINEER DATE

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NOTE:  
1. For pipe sizes, see MI-4

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 INGRID P. CASIANO  
 Approval date: 11-27-12  
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**SEWER PLAN**  
SCALE: 1/4" = 1'-0"



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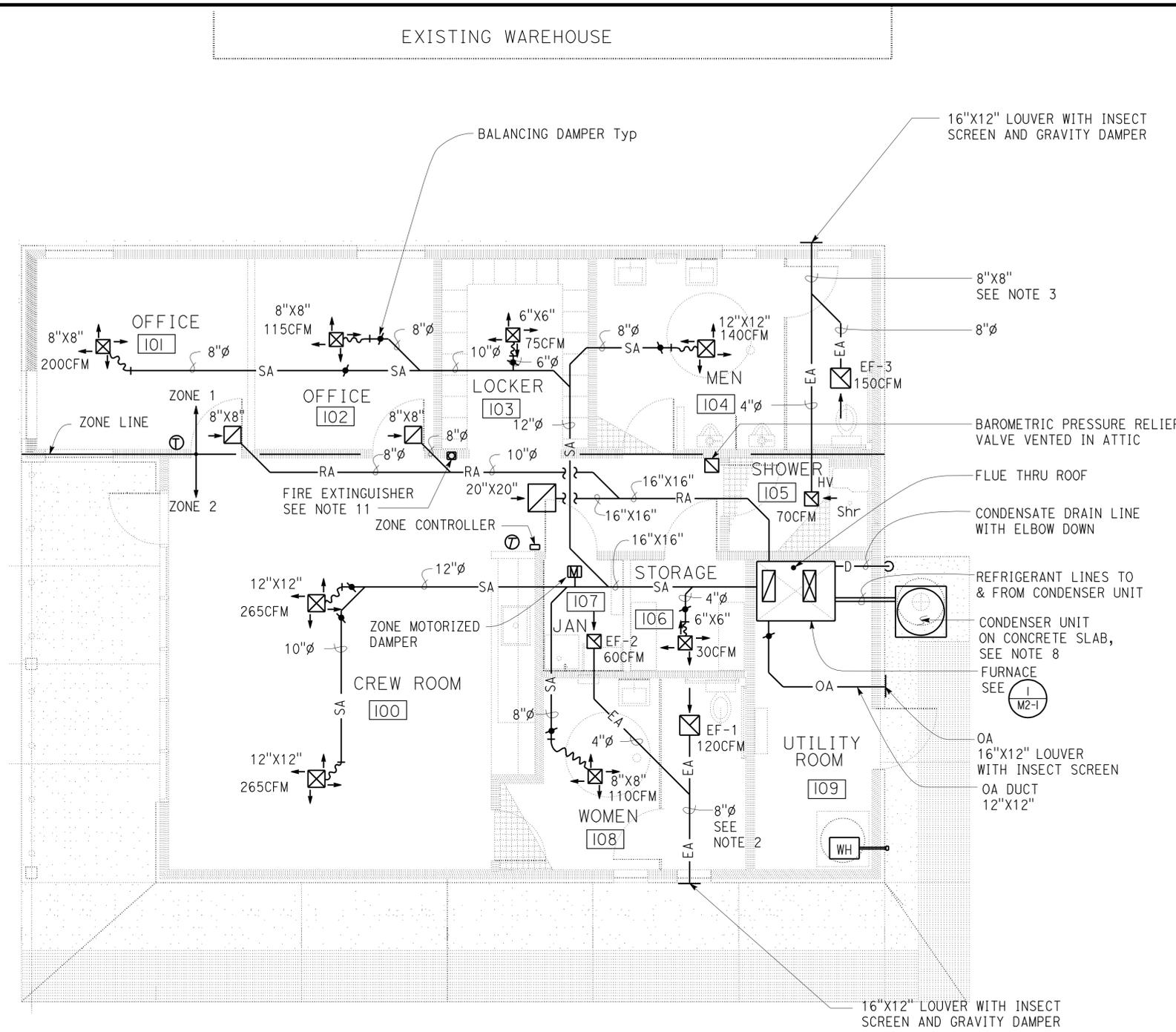
DESIGN BY SHAHJAHAN ALI CHECKED SEVE GUTIERREZ DETAILS BY ANGELA CHEN CHECKED SEVE GUTIERREZ QUANTITIES BY SHAHJAHAN ALI CHECKED SEVE GUTIERREZ	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 48M5710	<b>LEE VINING MAINTENANCE STATION CREW ROOM BUILDING</b>	SHEET OF <b>M1-1</b>
			POST MILE X		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		UNIT PROJECT NUMBER & PHASE 3615 09120000291	DISREGARD PRINTS BEARING EARLIER REVISION DATES 01-20-12 03-01-12 04-25-12 06-14-12	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	51.5	51	68

Registered Mechanical Engineer  
 Shahjahan Ali  
 No. 32144  
 Exp 09/30/14  
 MECH  
 STATE OF CALIFORNIA

06/14/12  
 DATE  
 3-11-13  
 PLANS APPROVAL DATE

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- EQUIPMENT SCHEDULE.
- EF-1 Exhaust Fan-1 ceiling mounted, 120 CFM @ 0.25" W.C. SP exhaust fan, 115V-1Ph-60Hz, 3 sones Max.
  - EF-2 Exhaust Fan-2 ceiling mounted, 60 CFM @ 0.25" W.C. SP exhaust fan, 115V-1Ph-60Hz, 3 sones Max.
  - EF-3 Exhaust Fan-3 ceiling mounted, 150 CFM @ 0.25" W.C. SP exhaust fan, 115V-1Ph-60Hz, 3 sones Max.
  - H-V Heat and Vent combination unit, 1.3 Kw heating, 70 CFM exhaust fan, 115V-1Ph-60Hz, 4 sones Max.

- NOTES:
1. A/C, Gas heating/electric cooling split air conditioning system, 36000 BTUH nominal cooling capacity, 32000 BTUH sensible cooling at 102°F DB ambient temperature and 80°F DB/65°F WB indoor temperature, minimum 13.00 EER and 15.0 SEER, 1200 CFM VFD @ 0.7" W.C. SP, 230V-1Ph-60Hz. 100000 BTUH input heating minimum, LPG operation, 0.90 AFUE minimum. Unit with outside air damper set at 300 CFM minimum.
  2. Route 8" Dia. duct to south wall and terminate with wall cap, gravity damper and bird screen.
  3. Route 8" x 8" duct to north wall and terminate with wall cap, gravity damper and bird screen.
  4. EF-1, EF-2 & EF-3 shall be operated by motion sensors and will run 10 more minutes after motion sensors cut off.
  5. Rectangular duct elbows shall be constructed with turning vanes.
  6. All balancing dampers shall be accessible.
  7. For supply and return duct diffuser installation, See (8/M2-2).
  8. Concrete slab shall be 4" above concrete walkway to accommodate condenser unit. Contractor shall verify condenser unit dimensions before pouring concrete slab.
  9. Refrigerant lines shall be routed from indoor unit to outdoor unit minimum one inch apart from center to center. Provide stainless steel jacket, insulation and adequate supports.
  10. Mount thermostats on wall at 46" above finished floor.
  11. Fire extinguisher shall be in cabinet semi recessed, 3A:40B:C. Top of fire extinguisher handle shall be mounted at 48" above finished floor.
  12. Contractor must build furnace stand to accommodate furnace unit. Furnace stand must be min 18" high from finished floor.
  13. EF-1, EF-2, EF-3 and HV shall be provided with backdraft dampers.

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

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DESIGN BY SHAHJAHAN ALI CHECKED SEVE GUTIERREZ DETAILS BY ANGELA CHEN CHECKED SEVE GUTIERREZ QUANTITIES BY SHAHJAHAN ALI CHECKED SEVE GUTIERREZ	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 48M5710 POST MILE X	<b>LEE VINING MAINTENANCE STATION CREW ROOM BUILDING</b>		SHEET <b>M1-2</b> OF
				<b>HVAC PLAN</b>		
FILE => m1_2.dgn DATE PLOTTED => 13-MAR-2013 TIME PLOTTED => 08:00	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3615 09120000291	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 01-20-12 03-01-12 04-25-12 06-14-12		SHEET OF

13-MAR-2013 08:00 m1\_2.dgn

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	51.5	52	68

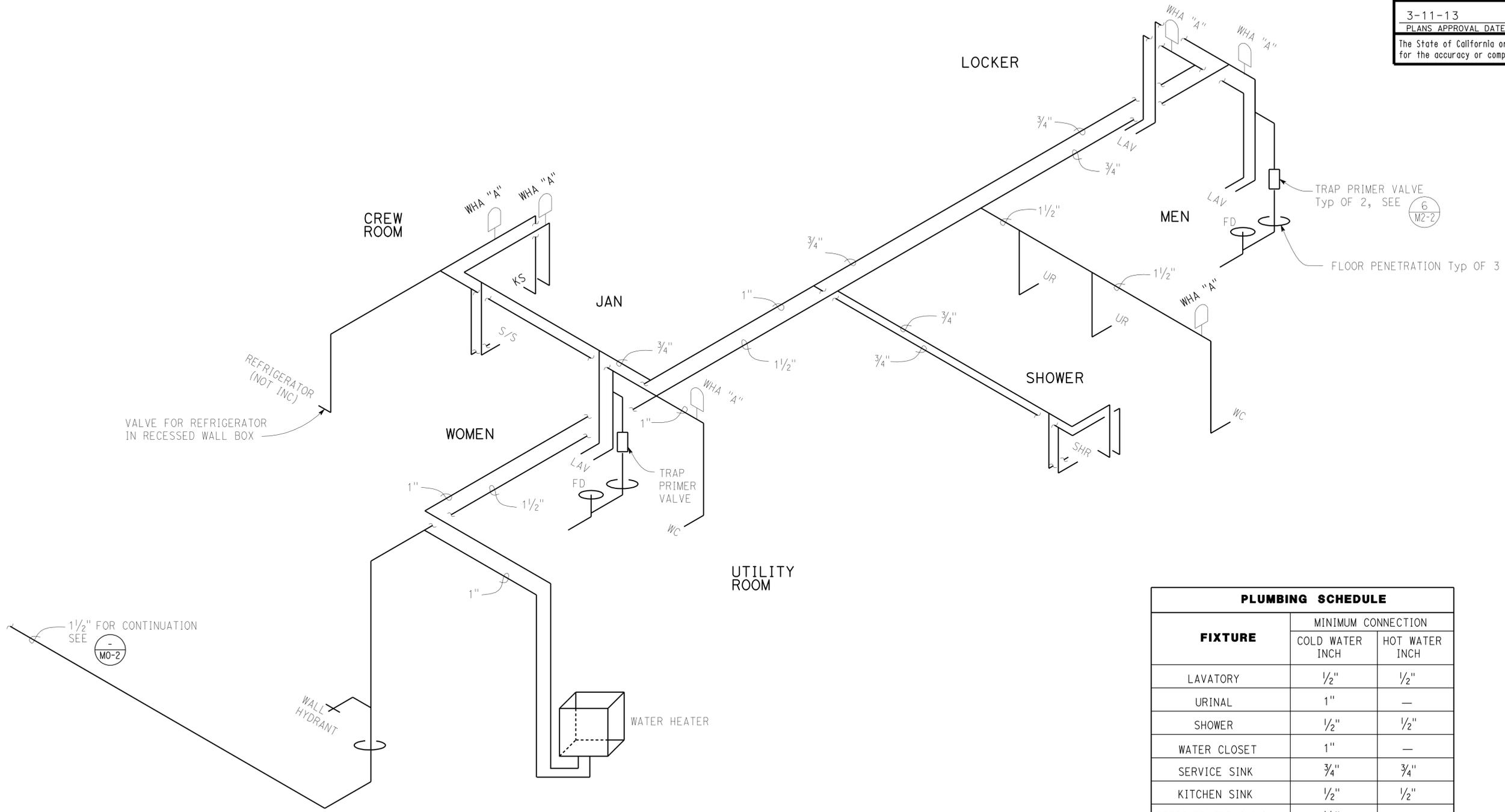
Shahjahan Ali  
REGISTERED MECHANICAL ENGINEER  
DATE 06/14/12



3-11-13  
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Reviewed by: *Ingrid P. Casiano*  
INGRID P. CASIANO  
Approval date: 11-27-12  
CSFM FILE NO. 01-26-11-0000



PLUMBING SCHEDULE		
FIXTURE	MINIMUM CONNECTION	
	COLD WATER INCH	HOT WATER INCH
LAVATORY	1/2"	1/2"
URINAL	1"	—
SHOWER	1/2"	1/2"
WATER CLOSET	1"	—
SERVICE SINK	3/4"	3/4"
KITCHEN SINK	1/2"	1/2"
REFRIGERATOR (NIC)	1/2"	—
WATER HEATER	1"	1"

**WATER ISOMETRIC**  
NO SCALE

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DESIGN BY SHAHJAHAN ALI CHECKED SEVE GUTIERREZ DETAILS BY ANGELA CHEN CHECKED SEVE GUTIERREZ QUANTITIES BY SHAHJAHAN ALI CHECKED SEVE GUTIERREZ	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 48M5710 POST MILE X	<b>LEE VINING MAINTENANCE STATION          CREW ROOM BUILDING          ISOMETRIC WATER PLAN</b>	SHEET <b>M1-3</b> OF	
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3615 09120000291	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 01-20-12 03-01-12 04-25-12 06-14-12	SHEET OF	13-MAR-2013 08:00 m1_3.dgn
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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	51.5	53	68

Shahjahan Ali  
REGISTERED MECHANICAL ENGINEER

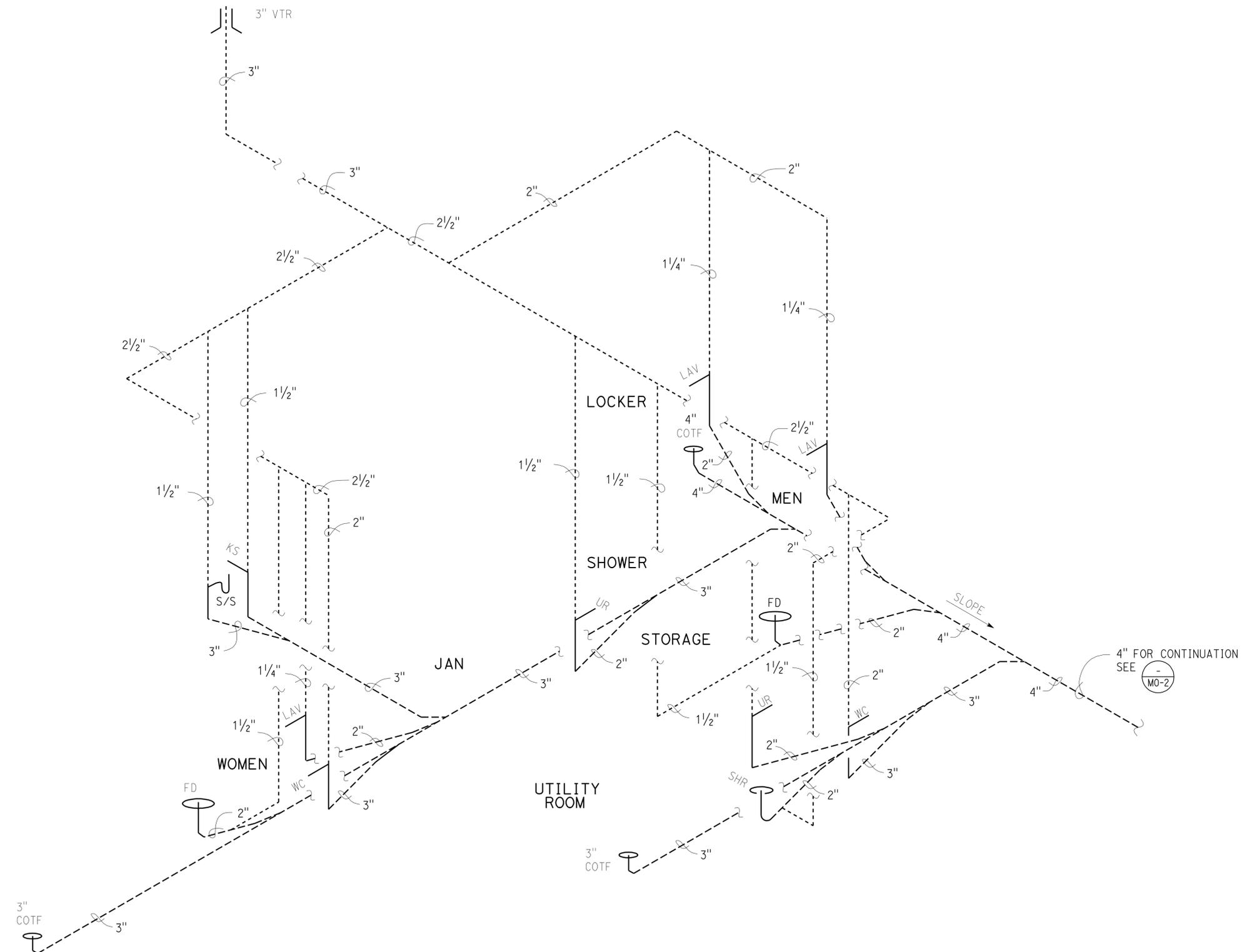
06/14/12  
DATE



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INGRID P. CASIANO  
Approval date: 11-27-12  
CSFM FILE NO. 01-26-11-0009



**SEWER ISOMETRIC**  
NO SCALE

PLUMBING SCHEDULE			
FIXTURE	DRAINAGE ROUGH-IN	TRAP INCH	VENT INCH
LAVATORY	2"	1 1/4"	1 1/4"
SHOWER	2"	2"	1 1/2"
URINAL	2"	1 1/2"	1 1/2"
WATER CLOSET	3"	--	1 1/2"
FLOOR DRAIN	2"	2"	1 1/2"
SERVICE SINK	3"	3"	1 1/2"
KITCHEN SINK	2"	1 1/2"	1 1/2"
FLOOR DRAIN	2"	2"	1 1/2"

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DESIGN BY SHAHJAHAN ALI	CHECKED SEVE GUTIERREZ	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 48M5710	LEE VINING MAINTENANCE STATION CREW ROOM BUILDING ISOMETRIC SEWER PLAN	SHEET M1-4
				POST MILE X		REVISION DATES (PRELIMINARY STAGE ONLY)
DETAILS BY ANGELA CHEN	CHECKED SEVE GUTIERREZ	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT PROJECT NUMBER & PHASE 3615 09120000291	DISREGARD PRINTS BEARING EARLIER REVISION DATES	01-20-12 03-01-12 04-25-12 06-14-12	FILE => m1_4.dgn DATE PLOTTED => 13-MAR-2013 TIME PLOTTED => 08:00
QUANTITIES BY SHAHJAHAN ALI	CHECKED SEVE GUTIERREZ	EA 35440				13-MAR-2013 08:00 m1_4.dgn

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09	Mno	395	51.5	54	68

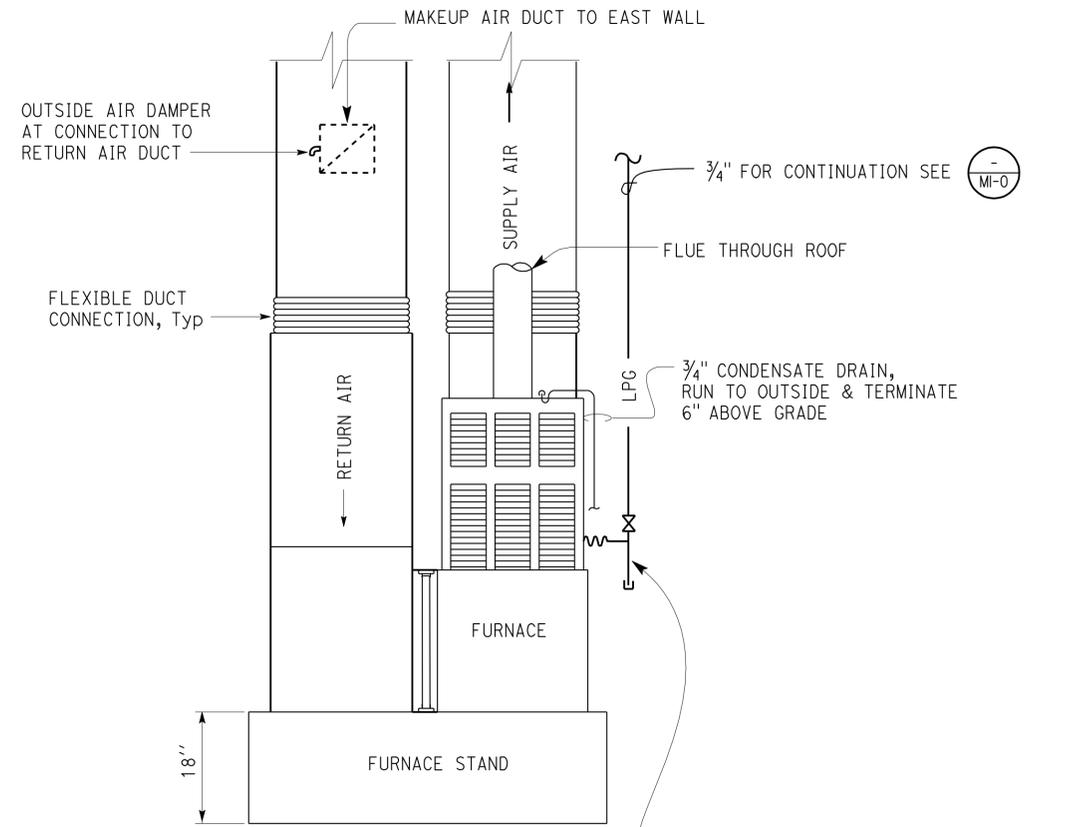
  

<i>Shahjahan Ali</i> REGISTERED MECHANICAL ENGINEER No. 32144 Exp 09/30/14 MECH STATE OF CALIFORNIA		06/14/12 DATE
3-11-13 PLANS APPROVAL DATE		
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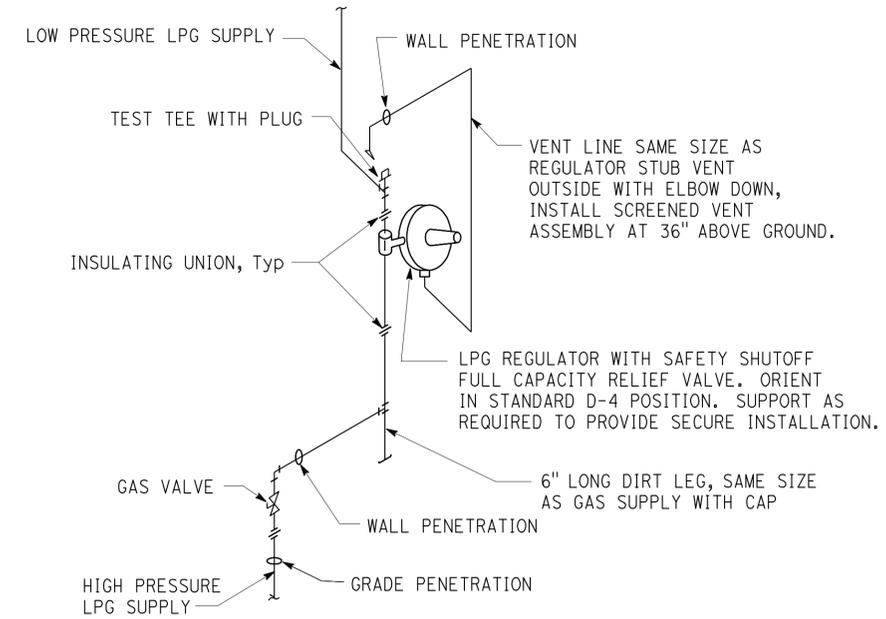
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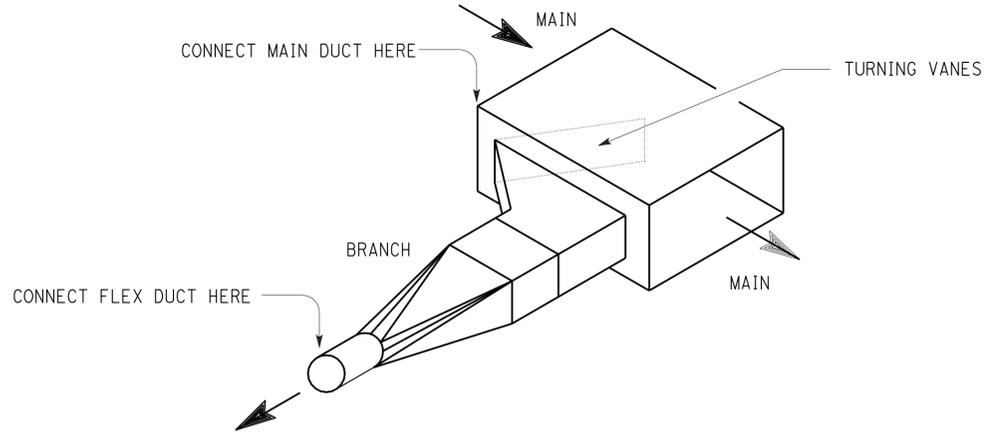


**1 FURNACE DETAIL**  
NO SCALE

PROVIDE 1/2" FLEXIBLE GAS APPLIANCE CONNECTION WITH SHUT-OFF VALVE AND DIRT LEG.



**3 SECOND STAGE LPG PRESSURE REGULATOR**  
NO SCALE



**2 SUPPLY/RETURN JUNCTION FITTING (TYPE)**  
NO SCALE

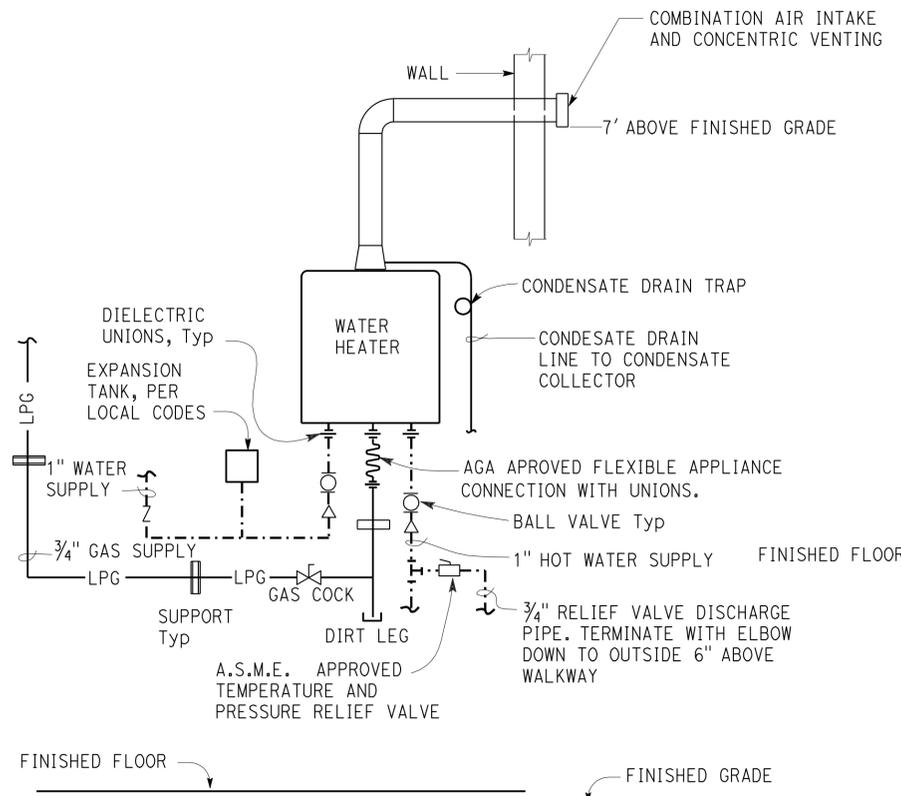
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DESIGN BY SHAHJAHAN ALI CHECKED SEVE GUTIERREZ DETAILS BY ANGELA CHEN CHECKED SEVE GUTIERREZ QUANTITIES BY SHAHJAHAN ALI CHECKED SEVE GUTIERREZ	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 48M5710 POST MILE X	<b>LEE VINING MAINTENANCE STATION CREW ROOM BUILDING</b> <b>MECHANICAL DETAILS 1</b>	SHEET <b>M2-1</b> OF
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3615 09120000291	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 01-20-12   03-01-12   04-25-12   06-14-12	SHEET OF
	TAEMWW Imperial Rev. 7/10 FILE => m2_1.dgn DATE PLOTTED => 13-MAR-2013 TIME PLOTTED => 08:00	EA 35440	13-MAR-2013 08:00 m2_1.dgn		

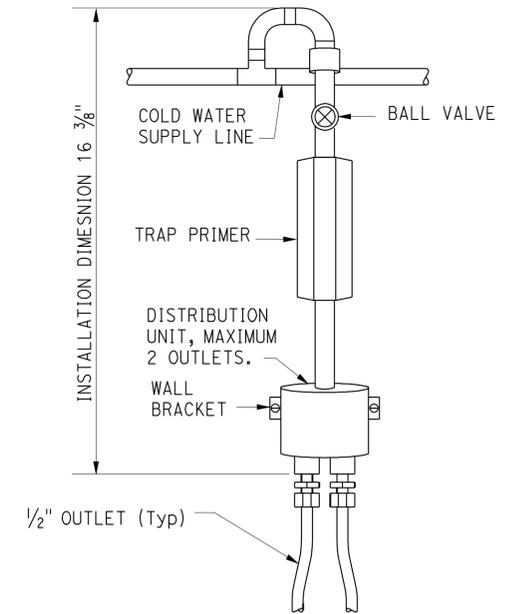
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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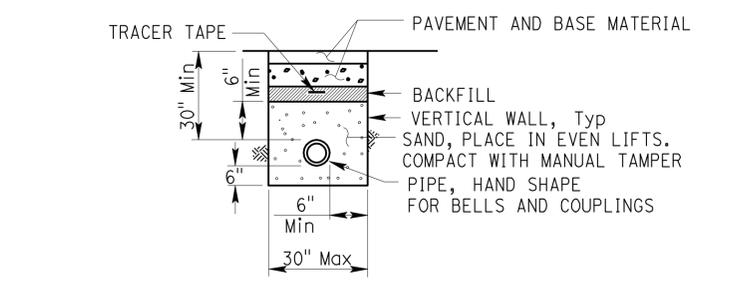
<i>Shahjahan Ali</i> REGISTERED MECHANICAL ENGINEER No. 32144 Exp 09/30/14 MECH STATE OF CALIFORNIA		06/14/12 DATE
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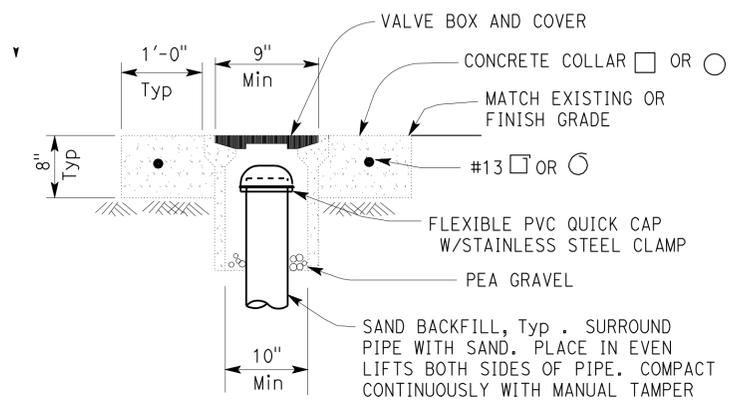
**1 WATER HEATER DETAIL**  
NO SCALE



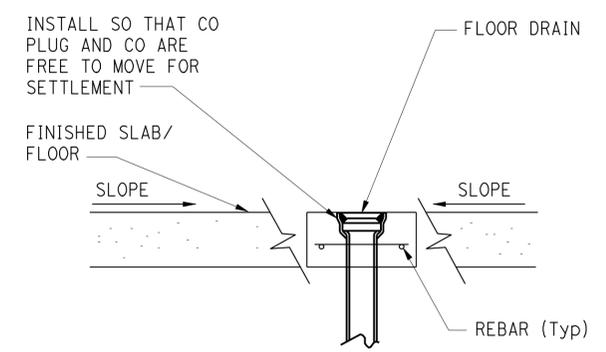
**6 TRAP PRIMER INSTALLATION DETAIL**  
NO SCALE



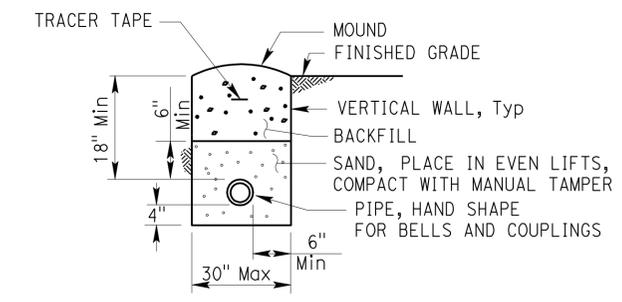
**2 BURIED PIPE UNDER PAVEMENT**  
NO SCALE



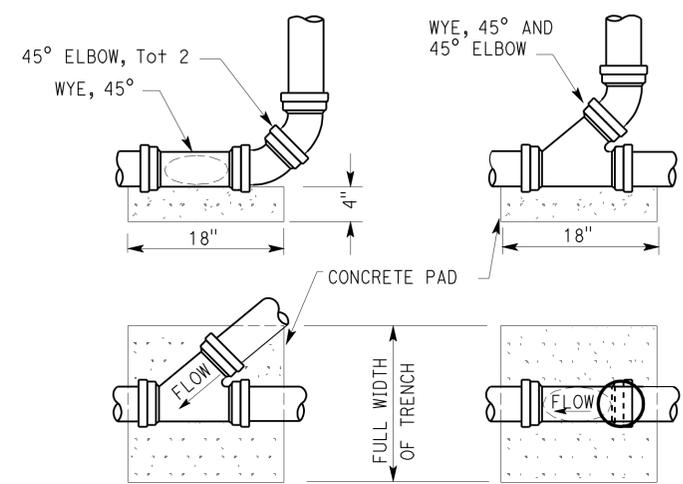
**4 COTG ACCESS BOX**  
NO SCALE



**7 FLOOR DRAIN**  
NO SCALE

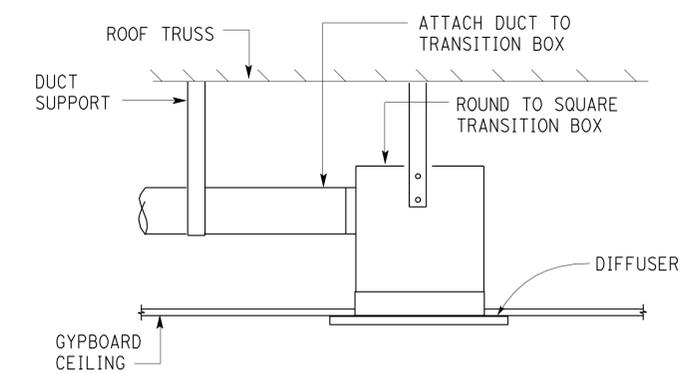


**3 BURIED PIPE**  
NO SCALE



**5 CLEANOUT TO GRADE**  
NO SCALE

NOTE:  
Surround pipes with sand in 6 inch lifts, compact with manual tamper



**8 GYPBOARD DIFFUSER DETAIL**  
NO SCALE

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INGRID P. CASIANO  
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DESIGN	BY SHAHJAHAN ALI	CHECKED SEVE GUTIERREZ	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 48M5710	<b>LEE VINING MAINTENANCE STATION          CREW ROOM BUILDING          MECHANICAL DETAILS 2</b>	SHEET	
DETAILS	BY ANGELA CHEN	CHECKED SEVE GUTIERREZ		ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	POST MILE X		DISREGARD PRINTS BEARING EARLIER REVISION DATES REVISION DATES (PRELIMINARY STAGE ONLY) 01-20-12   03-01-12   04-25-12   06-14-12	OF
QUANTITIES	BY SHAHJAHAN ALI	CHECKED SEVE GUTIERREZ		UNIT PROJECT NUMBER & PHASE 3615 09120000291				
TAEMWW Imper-Id Rev. 7/10	FILE => m2_2.dgn DATE PLOTTED => 13-MAR-2013	TIME PLOTTED => 08:00	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	EA 35440			13-MAR-2013 08:00 m2_2.dgn	

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

SYMBOL	DESCRIPTION
	Pole-top electrolier
	Pole-arm electrolier
<b>CEILING WALL</b>	
	Surface fluorescent, metal halide, led, or sodium vapor fixture
	Recessed fluorescent, metal halide, led, or sodium vapor fixture
	Exit light
	Surface or pendant individual fluorescent or led fixture
	Recessed individual fluorescent or led fixture
	Surface or pendant continuous row fluorescent or led fixtures
NOTE: A lower case letter near graphic lighting fixture symbol denotes that fixture is controlled by a similarly marked switch, an alpha-numeric symbol near graphic lighting fixture symbol denotes fixture type, (i=incandescent, f=fluorescent, mh=metal halide, h=high pressure sodium vapor, l=led), design type, number of lamps and wattage. Example : (4) F2-2x32 <ul style="list-style-type: none"> <li>├── 32 watt lamps</li> <li>├── 2 lamps</li> <li>├── design type</li> <li>└── fluorescent</li> </ul>	
	Blank outlet
	Junction box
	Drop cord
	Single receptacle outlet
	Duplex receptacle outlet
	DUPLEX receptacle outlet (with gfci)
	DUPLEX receptacle outlet, weatherproof (with GFCI)
	Single, special purpose receptacle outlet
	Duplex, special purpose receptacle outlet
	Range outlet
	Clock hanger receptacle
	Fan hanger receptacle
	Floor single receptacle outlet
	Floor duplex receptacle outlet
	Floor special purpose outlet
	Floor radio outlet
	Floor telephone outlet
	Multi-floor outlet, 2 or more gang
	Multi-outlet assembly
	Switch and single receptacle
	Switch and duplex receptacle
	Radio outlet
	Communication outlet
	Sound system loud speaker outlet
	Radio outlet
	Television outlet
	Microphone outlet
	Thermostat

SYMBOL	DESCRIPTION
S	Single-pole switch
S2	Double-pole switch
S3	Three-way switch
S4	Four-way switch
SD	Automatic door
SK	Key operated switch
SP	Switch and pilot light
SMC	Momentary contact switch
SRC	Remote control switch
SWP	Weatherproof switch
SF	Fan switch
SL	Light switch
SH	Heater switch
SVS	Variable speed motor control switch
SCHLF	Two timer switches, one switch for light and fan and one switch for heat lamp
S1	Occupancy sensor wall switch, single level
S2	Occupancy sensor wall switch, bilevel
SM	Motion sensor switch
ST	Manual motor starting switch, thermal overload type
SHP	Manual motor starting switch, without overload element
TS	Timer switch
	Pushbutton
	Pushbutton station, nc, with locking device for open
	Pushbutton station motor control
	Buzzer
	Bell
	Combination bell-buzzer
	Pressure switch
	Control relay
	Flow switch
	Photoelectric unit
	Hand dryer nozzle
	Hand dryer
	Flush-mounted panelboard and cabinet
	Surface-mounted panelboard and cabinet
	Lighting panel
	Power panel
	Combination lighting and power
	Motor controller
	Disconnect switch
	Conduit concealed in ceiling or wall
	Conduit concealed in floor
	Conduit exposed
	Cross-lines indicate number of #12 AWG conductors. Longer cross-line indicates 1#12 AWG (G) for equipment grounding conductor. no cross-line indicates 2#12 with 1#12 (G) unless otherwise noted. all conduit 1/2" unless otherwise noted.
	Homerun to panelboard, arrows indicate number of circuits, letter denotes panelboard, numeral denotes circuit

SYMBOL	DESCRIPTION
	Surface metal raceway
	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
	Occupancy sensor
	Occupancy sensor power pack
	Manual pull station
	Audio/Visual alarm device
	Heat detector
	Smoke detector
	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

**GRAPHIC SYMBOLS FOR ELECTRICAL DIAGRAMS**

SYMBOL	DESCRIPTION
	Circuit breaker, single-pole
	Circuit breaker, double-pole
	Circuit breaker, three-pole
GFCI	Circuit breaker, with ground fault circuit interrupter
	Circuit breaker, single-pole, switched neutral
	Contact, normally open
	Contact, normally closed
	Contact, normally closed, time delay closing on de-energizing
	Contact, normally open, time delay opening on de-energizing
	Contact, normally open, time delay closing on energizing
	Contact, normally closed, time delay opening on energizing
	Contact, single-pole, double-throw
	Operating coil
	Liquid level actuated switch, normally closed
	Liquid level actuated switch, normally open
	Pressure actuated switch, normally closed
	Pressure actuated switch, normally open
	Flow actuated switch, normally closed
	Flow actuated switch, normally open
	Temperature actuated switch, normally closed
	Temperature actuated switch, normally open
	Limit switch, normally closed
	Limit switch, normally open
	Pushbutton switch, normally closed
	Pushbutton switch, normally open
	Switch, single-pole
	Switch, single-pole, double-throw
	Switch, double-pole
	Switch, double-pole, double-throw
	Switch, single-pole, 3-position
	Thermal overload
	Fuse
	Resistor
	Variable resistor
	Transformer winding
	Grounding electrode
	Enclosure bond
	Pilot light (A=Amber, G=Green, R=Red)
	Generator
	Motor
	Fan motor

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	51.5	56	68
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**ABBREVIATIONS**

**A**  
 A Amperes  
 AC Alternating current or asphalt concrete  
 A/C Air conditioning unit  
 ACS Air compressor starter  
 AFCI Arc fault circuit interrupter  
 AI Analog input  
 AL Alarm light  
 AO Analog output  
 Approx Approximate  
 AR Alarm reset  
 AVC Air volume controller

**B**  
 BC Bare copper  
 BD Building disconnect  
 Bldg Building  
 BP Booster pump  
 Brk Breaker

**C**  
 C Conduit  
 Cat Category  
 CB Circuit breaker  
 CC Center channel light  
 CCTV Closed circuit television  
 CD Control disconnect  
 Ckt Circuit  
 CL Chain link  
 CL Center line  
 Clr Clear or clearance  
 CM Center margin light  
 CMS Changeable message sign  
 COMM Communication  
 Conc Concrete  
 CR Control relay  
 CSW Current switch

**D**  
 D Depth  
 DC Direct current  
 DI Digital input  
 Dia Diameter  
 DLC Loop detector lead-in cable  
 DO Digital output  
 DP Duplex plug receptacle  
 DS Door switch

**E**  
 (E) Existing  
 EB Eastbound  
 EF Exhaust fan  
 EWH Electric water heater  
 Elev Elevation  
 EMS Extinguishable message sign

**F**  
 FC Fan coil  
 F Fuse  
 FG Finish grade  
 FL Failure light  
 FLA Flasher  
 Flex Flexible conduit  
 FLS Flow switch  
 FO Fiber optic  
 FR Failure reset or flame resistant  
 FS Float switch

**G**  
 G Ground  
 Ga Gauge  
 Galv Galvanized  
 GFCI Ground fault circuit interrupter  
 GRS Galvanized rigid steel

**H**  
 hp Horsepower  
 HP Heat pump  
 HPS High pressure sodium

**I**  
 IC Irrigation controller  
 ICC Irrigation controller cabinet  
 IR Induction relay  
 ISR Intrinsically safe relay

**J**  
 JB Junction box

**K**  
 kV Kilovolt  
 kVA Kilovolt amperes  
 kW Kilowatt

**L**  
 L Light or length  
 LC Lighting contactor  
 LCD Liquid crystal display  
 LCP Lighting control panel  
 LD Light disconnect  
 LDCI Leak detector circuit interrupter  
 LED Light emitting diode  
 LL Liquid level relay  
 LLC Liquid level controller  
 LP Light panel  
 LPS Low pressure sodium  
 LS Light switch  
 LT Light transformer  
 LTO Light transformer overload

**M**  
 Max Maximum  
 MB Main breaker  
 MC Metallic conduit  
 MCP Motor circuit protector  
 MCC Motor control center  
 MD Motor disconnect  
 MH Mounting height  
 Min Minimum  
 Misc Miscellaneous  
 MSB Main switchboard  
 MT Empty conduit

**N**  
 (N) New  
 Nav Navigational lights  
 NB Neutral bus or northbound  
 NC Normally closed  
 No. Number  
 Nos. Numbers  
 NO Normally open  
 NSW Neutral switching breaker

**O**  
 O/C On center  
 OG Original ground  
 OH Overhead  
 OL Overload

**P**  
 P Pole (circuit breaker)  
 PB Pull box or pushbutton  
 PCC Portland concrete cement  
 PCP Pump control panel  
 PD Pump disconnect  
 PEC Photoelectric control  
 PEU Photoelectric unit  
 PFR Phase failure relay  
 PFRD Phase failure relay disconnect  
 PL Plate  
 PL Pilot light  
 PS Pressure switch  
 PTS Power transfer switch  
 PV Photovoltaic  
 PVC Polyvinyl chloride

**R**  
 RD Receptacle disconnect  
 RES Resistor  
 Rm Room  
 RTB Radio terminal board  
 R/W Right of way

**S**  
 S Starter coil  
 Sch Schedule  
 SD Service disconnect  
 Sec Seconds  
 SFR Seal failure relay  
 SL Sump light  
 SPR Standby power receptacle  
 Sq Square  
 SS Selector switch  
 ST Starter  
 Std Standard  
 SV Solenoid valve  
 SWIM Slow weigh-in-motion

**T**  
 TB Terminal block  
 TC Telephone cable  
 TDR Time delay relay  
 TGLS Toggle switch  
 TM Time meter  
 Tot Total  
 TS Timer switch  
 TSW Test switch  
 TTB Telephone terminal board  
 Typ Typical

**U**  
 UPS Uninterruptible power supply

**V**  
 V Volt(s)  
 Var Variable or varies

**W**  
 W Watt or width  
 WB Westbound  
 WIM Weigh-in-motion  
 WLS Water level switch  
 WP Weatherproof  
 WSMS Weigh station message sign

**X**  
 XFMR Transformer

**SYMBOLS**

∟ Angle  
 @ At  
 ° Degrees  
 Δ Delta  
 Ω Ohm(s)  
 ∅ Phase  
 ± Plus or minus

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**PROJECT NOTES**

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

**STANDARD NOTES**

- [AB] Abandon. If applied to conduit, remove conductors.
- [BC] Install pull box in existing conduit run.
- [CB] Install conduit into existing pull box.
- [CC] Connect new and existing conduit. Remove existing conductors and install conductors as indicated.
- [CF] Conduit to remain for future use. Remove conductors, install pull rope and plug.
- [FA] Remove foundation above grade and abandon foundation below grade.
- [RL] Relocate equipment.
- [RLD] Relocated equipment.
- [SC] Splice new to existing conductors.

**STANDARD PLANS**

Dated 2010  
 • Not used

ee0-1.dgn TAEMWW Imper1al Rev. 7/10	DESIGN	BY ARMANDO HERNANDEZ	CHECKED ROBERT J. FEE	PREPARED FOR THE STATE OF <b>CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTE WATER DESIGN	BRIDGE NO.	48M5710	LEGEND	SHEET OF X X
	DETAILS	BY ARMANDO HERNANDEZ	CHECKED ROBERT J. FEE			POST MILE	X		
	QUANTITIES	BY ARMANDO HERNANDEZ	CHECKED ROBERT J. FEE						

CSFM FILE NO. ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 UNIT PROJECT NUMBER & PHASE 3596 09120000291 DISREGARD PRINTS BEARING EARLIER REVISION DATES - -07 XX-XX-XX REVISION DATES (PRELIMINARY STAGE ONLY) SHEET OF X X

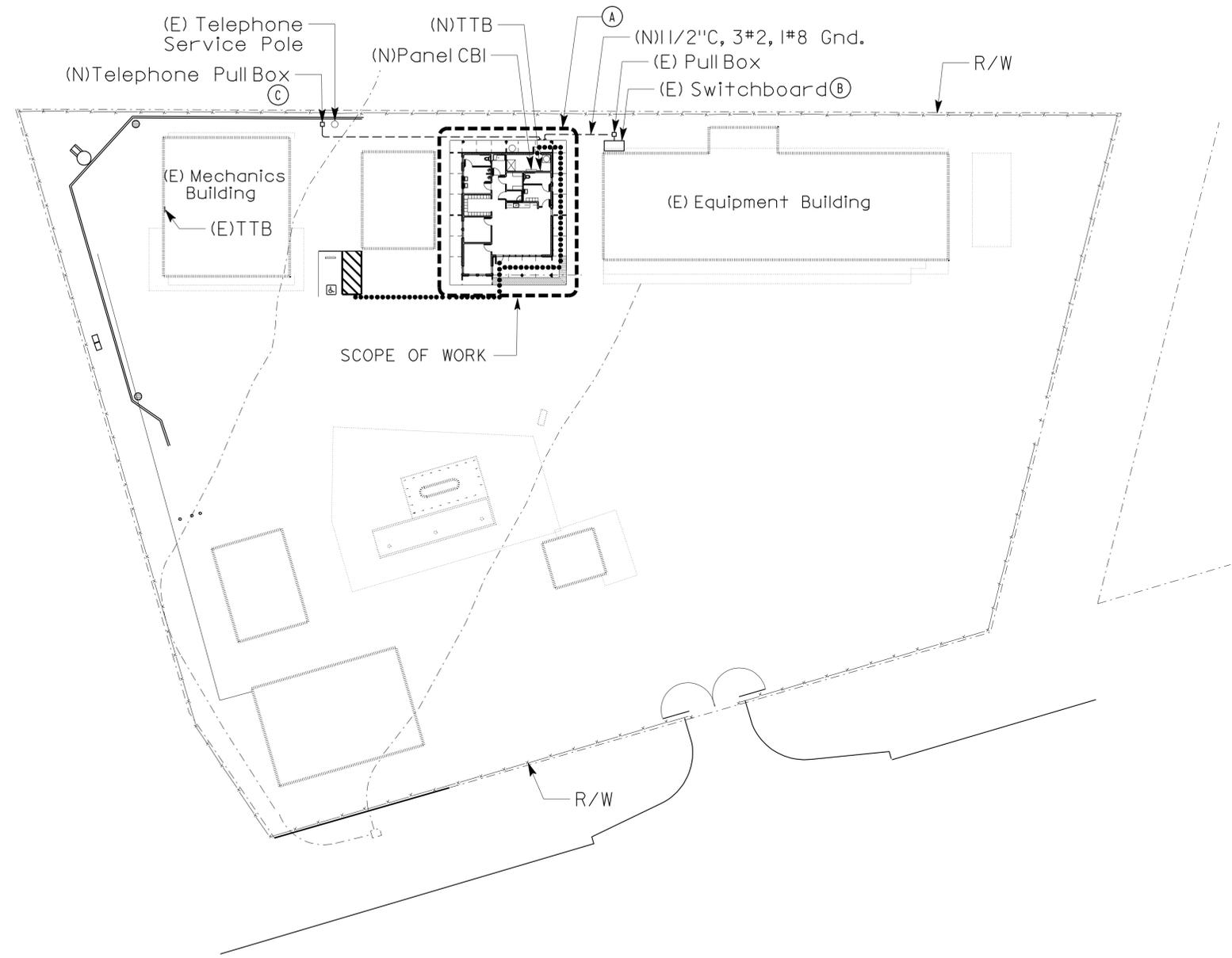
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09	Mno	395	51.5	58	68

  
 LICENSED ELECTRICAL ENGINEER      DATE 1-21-13  
 REGISTERED PROFESSIONAL ENGINEER  
 Robert J. Fee  
 No. E-13014  
 Exp. 6.30.13  
 ELEC  
 STATE OF CALIFORNIA

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- KEY NOTES**
- (A) New Crew Room Building.
  - (B) Existing main switchboard is Siemens, catalog number 3003901178-020060-02, 240/120 Volt, 3 Phase, 4 Wire rated Switchboard with 600 A main circuit breaker. install a 100A/2P circuit breaker with 42,000 AIC at 240 Volts inside the main switchboard to feed Crew Room Building.
  - (C) New underground 2"CO (wiring by communications) from the new telephone backboard to the existing building via existing pullbox. Contractor to connect as required for a complete and functional telephone system.

**SITE PLAN**  
 1/20"=1'-0"

ee0-2.dgn TAEMWW Imper1al Rev. 7/10	13-MAR-2013 08:29	CSFM FILE NO.	DESIGN BY ARMANDO HERNANDEZ	CHECKED ROBERT J. FEE	PREPARED FOR THE STATE OF <b>CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 48M5710	<b>LEE VINING MAINTENANCE STATION CREW ROOM BUILDING</b>	SHEET OF <b>EEO-2</b>
			DETAILS BY ARMANDO HERNANDEZ	CHECKED ROBERT J. FEE		ELECTRICAL-MECHANICAL-WATER AND WASTE WATER DESIGN	POST MILE X		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			QUANTITIES BY ARMANDO HERNANDEZ	CHECKED ROBERT J. FEE	UNIT PROJECT NUMBER & PHASE	3596 09120000291	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
0 1 2 3					EA 35440		- 07X-XX-XX	X X	

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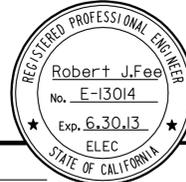






DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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**CERTIFICATE OF COMPLIANCE (Part 1 of 4) OLTG-1C**

Project Name: **LEE VINING MAINTENANCE STATION CREW ROOM** Date: **6/8/2012**

Project Address: **51548 Hwy 395 Lee Vining, CA 93541** Total Illuminated Area: **1,005**

**GENERAL INFORMATION**

Phase of Construction:  New Construction  Addition  Alteration

**Documentation Author's Declaration Statement**

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

Name: **Armando Hernandez** Signature: 

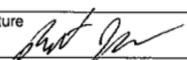
Company: **STV INC.** Date: **6/8/2012**

Address: **9130 Anaheim Place, Suite 210** EA #:  CEPE #:

City/State/Zip: **Rancho Cucamonga, CA 91730-8540** Phone: **909-484-9651**

**Principal Lighting Designer's Declaration Statement**

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

Name: **Robert Fee** Signature: 

Company: **STV INC.** Phone: **909-484-0660**

Address: **9130 ANAHEIM PLACE, SUITE 210** License #: **E13014**

City/State/Zip: **RANCHO CUCAMONGA, CA 91730** Date: **6/8/2012**

**Principal Lighting Designer's Declaration**

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

**Outdoor Lighting Mandatory Measures**  
Indicate location on building plans of Mandatory Measures Note Block: \_\_\_\_\_

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

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

OLTG-1C Certificate of Compliance. All 4 pages required on plans for all submittals.

OLTG-2C (Pages 1 of 3) Lighting Wattage Allowances for General Hardscape, Sales Frontage, or Ornamental Lighting. Optional on plans.

OLTG-2C (Pages 2 of 3) Lighting Wattage Allowance for Per Application or Per Area. Optional on plans.

OLTG-2C (Pages 3 of 3) Additional Lighting Power Allowance for Ordinance Requirements. Optional on plans.

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

Project Name: **LEE VINING MAINTENANCE STATION CREW ROOM** Date: **5/24/2012**

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

**INSTALLATION CERTIFICATE, OLTG-1INST** (Retain a copy and verify form is completed and signed.) **Field Inspection**

**CERTIFICATE OF ACCEPTANCE, OLTG-2A** (Retain a copy and verify form is completed and signed.) **Field Inspection**

Luminaire Schedule				Installed Watts						
A Name or Item Tag	B Luminaire Description <sup>1</sup> See footnote below (i.e.: 1 lamp pole-top shoe-box 400 watt metal halide)	C Cutoff Designation	D Watts per Luminaire	E Special Features	F How wattage was determined		G Number of Luminaires	H Installed Watts (D X G)	I Field Inspector <sup>2</sup>	
					Default from NA-8	According to §130 (D or E)			Pass	Fail
F4	100w Metal Halide		110	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4	440	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
Enter total into OLTG-1C; Page 4 of 4: Row H; Total Installed Watts:								440		

1. Type of luminaire (i.e.: post top, wall pack, surface, shoe box); for non-incandescent luminaires, indicate nominal lamp wattage and lamp type (i.e.: fluorescent, incandescent, HID); ballast type (i.e.: electronic or magnetic); number of lamps and number of ballasts per luminaire. For incandescent luminaires, the luminaire wattage listed in column D shall be the maximum relamping rated wattage on a permanent factory-installed label on the luminaire, NOT the wattage of the lamp (bulb) used, in accordance with Section 130(d or e).

2. If Fail then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. Verify building plans if necessary.

**EXEMPT LUMINAIRES** **Field Inspection**

Name or Symbol	Description of exempt luminaires in accordance with §147

**MANDATORY CONTROLS** **Field Inspection**

#	Description	Location	#	Description	Location

**SPECIAL FEATURES INSPECTION CHECKLIST (See Page 2 of 4 of OLTG-1C)**

The local enforcement agency should pay special attention to the items specified in this checklist. These items require special written justification and documentation, and special verification. The local enforcement agency determines the adequacy of the justification, and may reject a building or design that otherwise complies based on the adequacy of the special justification and documentation submitted.

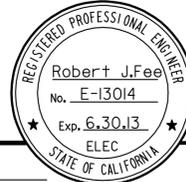
**Filed Inspector Notes or Discrepancies:**

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ee0-6.dgn	DESIGN BY: ARMANDO HERNANDEZ	CHECKED: ROBERT J. FEE	PREPARED FOR THE STATE OF CALIFORNIA	DIVISION OF ENGINEERING SERVICES	BRIDGE NO.: 48M5710	LEE VINING MAINTENANCE STATION CREW ROOM BUILDING	SHEET
TAEMWW Imper1al Rev. 7/10	DETAILS BY: ARMANDO HERNANDEZ	CHECKED: ROBERT J. FEE	DEPARTMENT OF TRANSPORTATION	ELECTRICAL-MECHANICAL-WATER AND WASTE WATER DESIGN	POST MILE: X		EEO-6
13-MAR-2013 08:30	QUANTITIES BY: ARMANDO HERNANDEZ	CHECKED: ROBERT J. FEE	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3	UNIT PROJECT NUMBER & PHASE: 3596 09120000291	DISREGARD PRINTS BEARING EARLIER REVISION DATES	OUTDOOR TITLE-24 COMPLIANCE REPORT	OF X X
CSFM FILE NO.					REVISION DATES (PRELIMINARY STAGE ONLY)		

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**CERTIFICATE OF COMPLIANCE (Part 3 of 4) OLTG-1C**

Project Name: **LEE VINING MAINTENANCE STATION CREW ROOM**      Date: **5/24/2012**

**A. OUTDOOR LIGHTING ZONE**

OUTDOOR LIGHTING ZONE:  OLZ 1     OLZ 2     OLZ 3     OLZ 4

Is the Outdoor Lighting Zone:  Default in accordance with §10-114, or     Amended by JHA

Complete the information below if the default Outdoor Lighting Zone has been amended by the local jurisdiction having authority (JHA):

- The site is a government designated park, recreational area, wildlife preserve, or portion thereof, and has been designated as LZ2 or LZ3, in accordance with Table 10-114-A, because the site is contained within such a zone.
- The local jurisdiction having authority has officially adopted a change to the State Default Lighting Zone and has notified the Energy Commission by providing the materials required in §10-114(d) to the Executive Director.
- The adopted change is posted on the Energy Commission website.

**B. ADDITIONAL LIGHTING POWER ALLOWANCE FOR ORDINANCE REQUIREMENTS**

Are additional lighting power allowances for ordinance in Table 147-C used?     Yes     No

Complete the information below if additional lighting power allowances for ordinance requirements are used:

- The local jurisdiction having authority has officially adopted specific outdoor light levels, which are expressed as average or minimum footcandle levels, by following a public process that allowed for formal public notification, review, and comment about the proposed change.
- The local jurisdiction having authority which adopted specific outdoor light levels and has notified the Commission by providing the following materials required §10-114(f) to the Executive Director.

**C. ACCEPTANCE FORMS**

**Required Acceptance Tests**  
**Designer:**  
This form is to be used by the designer and attached to the plans. Listed below is the acceptance test for the Lighting system, **LTG-2A**. The designer is required to check the acceptance tests and list all control devices serving the building or space shall be certified as meeting the Acceptance Requirements for Code Compliance. If all the lighting system or control of a certain type requires a test, list the different lighting and the number of systems. The NA7 Section in the Appendix of the Nonresidential Reference Appendices Manual describes the test. Since this form will be part of the plans, completion of this section will allow the responsible party to budget for the scope of work appropriately. **Forms can be grouped by type of Luminaire controlled.**

**Enforcement Agency:**  
**Systems Acceptance.** Before Occupancy Permit is granted for a newly constructed building or space or when ever new lighting system with controls is installed in the building or space shall be certified as meeting the Acceptance Requirements. The **LTG-2A** form is not considered a complete form and is not to be accepted by the enforcement agency unless the boxes are checked and/or filled and signed. In addition, a Certificate of Acceptance forms shall be submitted to the enforcement agency that certifies plans, specifications, installation certificates, and operating and maintenance information meet the requirements of §10-103(b) of Title 24 Part 6. The field inspector must receive the properly filled out and signed forms before the building can receive final occupancy. A copy of the **LTG-2A** for each different lighting luminaire control(s) must be provided to the owner of the building for their records.

Certificate of Acceptance				
Equipment Requiring Testing	Description	Luminaires Controlled		OLTG-2A <sup>1</sup>
		Qty. of Like Controls	Location	Outdoor Lighting Acceptance Tests

1. Insert: **OMS** for Outdoor Motion Sensor; **OLSC** for Outdoor Lighting Shutoff Controls; **OP** for Outdoor Photocontrol; **ATS** for Astronomical Time Switch; and, **STS** for Standard (non-astronomical) Time Switch acceptance.

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**CERTIFICATE OF COMPLIANCE (Part 4 of 4) OLTG-1C**

Project Name: **LEE VINING MAINTENANCE STATION CREW ROOM**      Date: **5/24/2012**

**ALLOWED AND INSTALLED OUTDOOR LIGHTING POWER**

		Lighting Wattage Power Allowance
A	Lighting power allowance for general hardscape (from OLTG-2C Page 1 of 3)	862
B	Specific application lighting wattage allowance per unit length (from OLTG-2C Page 1 of 3)	0
C	Specific application lighting wattage allowance for ornamental lighting (from OLTG-2C Page 1 of 3)	0
D	Specific application lighting wattage allowance per application (from OLTG-2C Page 2 of 3)	0
E	Specific application lighting wattage allowance per area (from OLTG-2C Page 2 of 3)	0
F	Specific application lighting wattage allowance for ordinance requirements (from OLTG-2C Page 3 of 3)	0
G	Total Allowed Wattage = Sum of rows A through G:	862
H	Total installed watts (from Compliance Fixture Schedule, (from OLTG-2C Page 1 of 3)	440

Complies if wattage in row H is less than or equal to the wattages in row G     Yes     No

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ee0-7.dgn TAEWW Imper1al Rev. 7/10    13-MAR-2013    08:18	DESIGN BY ARMANDO HERNANDEZ	CHECKED ROBERT J. FEE	PREPARED FOR THE STATE OF <b>CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 48M5710	<b>LEE VINING MAINTENANCE STATION CREW ROOM BUILDING</b>	SHEET <b>EEO-7</b>
	DETAILS BY ARMANDO HERNANDEZ	CHECKED ROBERT J. FEE		ELECTRICAL-MECHANICAL-WATER AND WASTE WATER DESIGN	POST MILE X		
QUANTITIES BY ARMANDO HERNANDEZ	CHECKED ROBERT J. FEE	UNIT PROJECT NUMBER & PHASE 3596 09120000291		EA 35440	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF X X

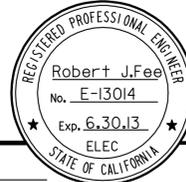
CSFM FILE NO.      ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

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13-MAR-2013 08:18

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	51.5	64	68

  
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3-11-13  
PLANS APPROVAL DATE

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<b>LIGHTING MANDATORY MEASURES: NONRESIDENTIAL</b>		<b>LTG-MM</b>
Project Name <b>LEE VINING MAINTENANCE STATION CREW ROOM</b>	Date <b>2/11/2013</b>	
<b>Indoor Lighting Measures:</b>		
§131(d): <b>Shut-off Controls</b>		
For every floor, all interior lighting systems shall be equipped with a separate automatic control to shut off the lighting.		
1. This automatic control shall meet the requirements of Section 119 and may be an occupancy sensor, automatic time switch, or other device capable of automatically shutting off the lighting.		
2. Override for Building Lighting Shut-off: The automatic building shut-off system is provided with a manual, accessible override switch in sight of the lights. The area of override is not to exceed 5,000 square feet.		
§119(h): Automatic Control Devices Certified: All automatic control devices specified are certified, all alternate equipment shall be certified and installed as directed by the manufacturer.		
§111: Fluorescent Ballast and Luminaires Certified: All fluorescent fixtures specified for the project are certified and listed in the Directory. All installed fixtures shall be certified.		
§131(a): Individual Room/Area Controls: Each room and area in this building is equipped with a separate switch or occupancy sensor device for each area with floor-to-ceiling walls.		
Uniform Reduction for Individual Rooms: All rooms and areas greater than 100 square feet and more than 0.8 watts per square foot of lighting load shall be controlled with bi-level switching for uniform reduction of lighting within the room.		
§131(b): Daylight Area Control: All rooms with windows and skylights that are greater than 250 square feet and that allow for the effective use of daylight in the area shall have 50% of the lamps in each daylit area controlled by a separate switch; or the effective use of daylight cannot be accomplished because the windows are continuously shaded by a building on the adjacent lot. Diagram of shading during different times of the year is included on plans.		
§131(c): Display Lighting. Display lighting shall be separately switched on circuits that are 20 amps or less.6.		
<b>Outdoor Lighting Measures:</b>		
§130(c)1: Mandatory lighting power determination for medium base sockets without permanently installed ballasts		
§132(a): 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(b): All Luminaires with lamps rated greater than 175 Watts in hardscape area, including parking lots, building entrances, canopies, and all outdoor sales areas meet the Cutoff Requirements.		
§132(c)1: All permanently installed outdoor lighting meets the control requirements listed.		
§132(c): Building facades, parking lots, garages, canopies, and outdoor sales areas meet the Multi-Level Lighting Requirements listed.		

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<b>OUTDOOR LIGHTING WORKSHEET</b>							(Part 1 of 3)	<b>OLTG-2C</b>	
Project Name <b>LEE VINING MAINTENANCE STATION CREW ROOM</b>							Date <b>5/24/2012</b>		
<b>A. LIGHTING POWER ALLOWANCE FOR GENERAL HARDSCAPE</b>									
AREA WATTAGE ALLOWANCE (AWA)			LINEAR WATTAGE ALLOWANCE (LWA)			INITIAL WATTAGE ALLOWANCE	TOTAL GENERAL HARDSCAPE LIGHTING ALLOWANCE		
A	B	C	D	E	F	G	H		
Illuminated Hardscape Area	AWA Per Square Foot	AWA (A X B)	Perimeter Length of General Hardscape	LWA Per Linear Foot	LWA (D X E)	IWA (Watts)	C + F + G		
1,005	0.092	92	0	0.920	0	770	862		
Enter total into OLTG-1C; Page 4 of 4; Row A: Lighting Power Allowance for General Hardscape							862		
<input checked="" type="checkbox"/> Yes AWA, LWA, and IWA from Table 147-A was used as appropriate for the Outdoor Lighting Zone									
<b>B. SPECIFIC APPLICATION LIGHTING WATTAGE ALLOWANCE PER UNIT LENGTH (Available only for sales frontage)</b>									
DETERMINE WATTAGE ALLOWANCE				LUMINAIRE TYPE		DESIGN WATTS			
A	B	C	D	E	F	G	H	I	J
Specific Lighting Application	Linear Foot of Frontage	Sales Frontage Allowance for OLZ (Watts per LF)	Wattage Allowance (B X C)	Name or Symbol	Luminaire Type	Lumin QTY	Watts Per Luminaire	Design Watts (G X H)	Allowed Watts Minimum of D or I
Enter total into OLTG-1C; Page 4 of 4; Row B: Specific Application Lighting Wattage Allowance Per Unit Length									0
<b>C. SPECIFIC APPLICATION WATTAGE ALLOWANCE FOR ORNAMENTAL LIGHTING</b>									
DETERMINE WATTAGE ALLOWANCE				LUMINAIRE TYPE		DESIGN WATTS			
A	B	C	D	E	F	G	H	I	J
Specific Lighting Application	Square feet of Hardscape	Ornamental Lighting Allowance for OLZ (Watts per ft <sup>2</sup> )	Wattage Allowance (B X C)	Name or Symbol	Luminaire Type	Lumin QTY	Watts Per Luminaire	Design Watts (G X H)	Allowed Watts Minimum of D or I
Enter total into OLTG-1C; Page 4 of 4; Row C: Specific Application Wattage for Ornamental Lighting									0

EnergyPro 5.0 by EnergySoft    User Number: 3024    RunCode: 2012-05-24T16:08:09    ID: 4015551    Page 5 of 5

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DETAILS BY ARMANDO HERNANDEZ	CHECKED ROBERT J. FEE		ELECTRICAL-MECHANICAL-WATER AND WASTE WATER DESIGN	POST MILE X		<b>EEO-8</b>
QUANTITIES BY ARMANDO HERNANDEZ	CHECKED ROBERT J. FEE					OUTDOOR TITLE-24 COMPLIANCE REPORT

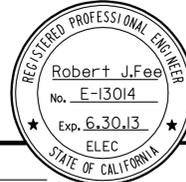
  

ee0-8.dgn	13-MAR-2013 08:19	CSFM FILE NO.	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3596 09120000291	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF X X
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13-MAR-2013 08:19    ee0-8.dgn

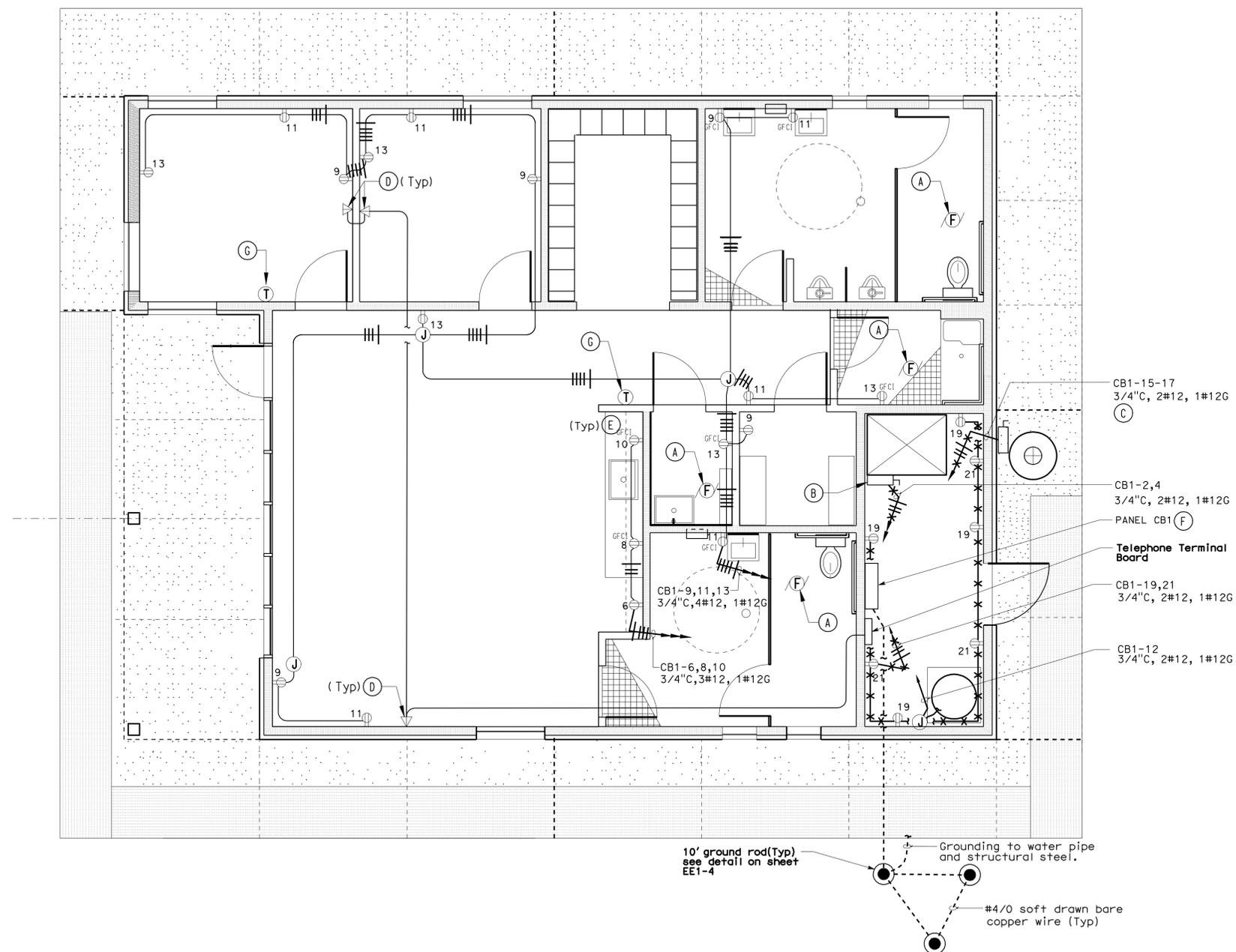
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	51.5	65	68

  
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**KEY NOTES**

- (A) Exhaust fans powered via lighting circuit, see lighting plan EE1-2 for reference. Coordinate exact location of fans with mechanical prior to rough-in.
- (B) 30 A, 2P, 240 V disconnect. Verify with manufacture for additional information prior to rough-in.
- (C) 30 A, 2P, 240 V disconnect for condenser unit. Provide 1"CO with pull wire to HVAC unit for controls, verify with manufacture for additional information prior to rough-in.
- (D) Provide 1"CO with pull wire up to accessible ceiling space for telephone/data. Wiring by communications.
- (E) Receptacles shall be mounted 6" above counter.
- (F) Install Arc flash hazard warning label Brady Catalog No. 94913 on panel.
- (G) Provide 1"CO with pull wire from the thermostat up to accessible ceiling space and to mechanical unit, see mechanical drawing for exact location.

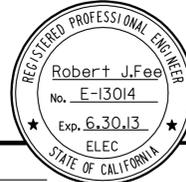
**POWER FLOOR PLAN**  
 1/4"=1'-0"

ee1-1.dgn TAEMWW Imper1al Rev. 7/10	13-MAR-2013 08:19	CSFM FILE NO.	DESIGN BY	ARMANDO HERNANDEZ	CHECKED	ROBERT J. FEE	PREPARED FOR THE STATE OF <b>CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTE WATER DESIGN	BRIDGE NO. 48M5710	<b>LEE VINING MAINTENANCE STATION          CREW ROOM BUILDING</b>					SHEET
			DETAILS BY	ARMANDO HERNANDEZ	CHECKED	ROBERT J. FEE				<b>POWER FLOOR PLAN</b>					EE1-1
			QUANTITIES BY	ARMANDO HERNANDEZ	CHECKED	ROBERT J. FEE	UNIT PROJECT NUMBER & PHASE 3596 09120000291 EA 35440		DISREGARD PRINTS BEARING EARLIER REVISION DATES					REVISION DATES (PRELIMINARY STAGE ONLY) - -07 XX-XX-XX	SHEET OF X X

13-MAR-2013 08:19 ee1-1.dgn

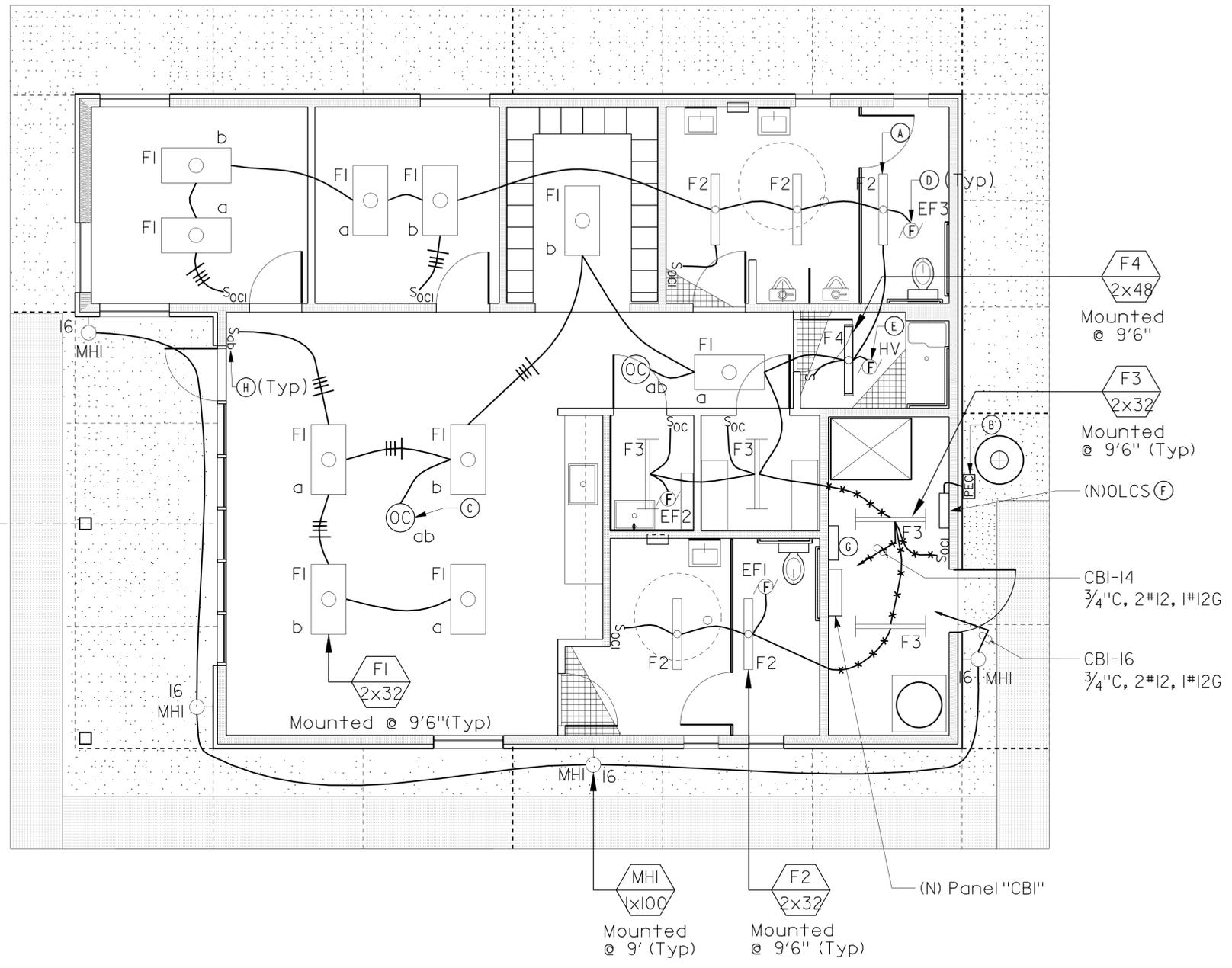
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	51.5	66	68

  
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- KEY NOTES**
- (A) For light fixture schedule see sheet EE1-3.
  - (B) Mount PEC facing north.
  - (C) Ceiling mounted occupancy sensor. Verify with manufacture for additional information prior to rough-in.
  - (D) Exhaust fans operated by motion sensor and shall run for 10 more minutes after motion sensor cut-off. For exact location of fans see Mechanical plan sheets. For wiring reference see detail 4 on sheet EE1-4.
  - (E) "Heat and Ventilation Combination" with light per Mechanical.
  - (F) See detail 1 on sheet EE1-4 for OLCS wiring diagram.
  - (G) Lighting Micropanel, for reference see detail 2 on sheet EE1-4.
  - (H) Wall switch occupancy sensor, see detail 5 on Sheet EE1-4 for wiring diagram.

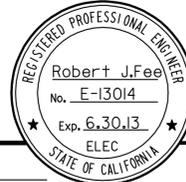
## LIGHTING FLOOR PLAN

1/4"=1'-0"

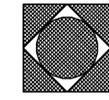
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			DETAILS BY	ARMANDO HERNANDEZ	CHECKED	ROBERT J. FEE					<b>EE1-2</b>	
			QUANTITIES BY	ARMANDO HERNANDEZ	CHECKED	ROBERT J. FEE	UNIT PROJECT NUMBER & PHASE		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	
			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3		3596 09120000291		- -07	
							EA 35440				SHEET OF	

13-MAR-2013 08:19

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	51.5	67	68

  
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(N) Panel CB1																		
VOLTAGE:			240 / 120			LOCATION:			UTILITY ROOM			MAIN:			100 A      MCB			
1 PHASE, 3 WIRE						SOURCE:						BUS:			125 A			
MOUNTING:												Isc:			3,029 A			
at Main																		
ckt	LCL	Load	LTS	REC	MISC	A	B	Bkr	Φ	Bkr	A	B	LTS	REC	MISC	Load	LCL	ckt
1	0	SPARE						20 A		30 A	2000				1	HVAC	0	2
3	0	SPARE						20 A		2P		2000				SYSTEM	0	4
5	0	SPARE						20 A		20 A	1000					FRIDGE	0	6
7	0	SPARE						20 A		20 A		180			1	KITCHEN RECEPTACLE	0	8
9	0	CONV. RECEPTACLES	5			900		20 A		20 A	180				1	KITCHEN RECEPTACLE	0	10
11	0	CONV. RECEPTACLES	6			1080		20 A		20 A		500			1	WATER HEATER	0	12
13	0	CONV. RECEPTACLES	5			900		20 A		20 A	1312		20			INDOOR LIGHTS	20	14
15	0	CONDENSOR UNIT		1			2000	30 A		20 A		400	4			OUTDOOR LIGHTS	4	16
17	0	-				2000		2P		20 A	0					SPARE	0	18
19	0	UTILITY RM RECEPTACLES	4				720	20 A		20 A		0				SPARE	0	20
21	0	UTILITY RM RECEPTACLES	3			540		20 A		20 A	0					SPARE	0	22
23	0	SPARE				0		20 A		20 A		0				SPARE	0	24
25	0	SPACE				0					0					SPACE	0	26
27	0	SPACE				0					0					SPACE	0	28
29	0	SPACE				0					0					SPACE	0	30
31	0	SPACE				0					0					SPACE	0	32
33	0	SPACE				0					0					SPACE	0	34
35	0	SPACE				0					0					SPACE	0	36
37	0	SPACE				0					0					SPACE	0	38
39	0	SPACE				0					0					SPACE	0	40
41	0	SPACE				0					0					SPACE	0	42
Totals:						4340	3800				4492	3080						
Phase A Conn VA:						<b>8832</b>			Conn kVA =			<b>15.7</b>						
Phase B Conn VA:						<b>6880</b>			Max Line current =			<b>74</b> A/phase						
									25% LCL kVA =			0.0						
									25% LGST MTR kVA =			0.0						
									FEEDER kVA =			15.7						
									Min. FEEDER AMPACITY =			<b>74</b> A						

KEY NOTES  
 (A) Provide lockable type circuit breaker.

TYPE	SYMBOL	DESCRIPTION	LAMPS	MANUFACTURER
F1		2'x4' recessed indirect fixture with built-in earthquake clips, 5" depth min. lamp shall be made of 22 gauge perforated mesh with white acrylic overlay.	2 Lamp, 32 W T8	Lithonia ES8P, Lightolier 254 series, Day-Brite LPW series or equal
F2		1'x4' recessed indirect fixture, impact resistant.	2 Lamp, 32 W T8	Lithonia ES8P, Day-Brite V2W series, Lightolier CFHIGPF or equal
F3		4' allpurpose industrial lighting fixture, heavy duty channel of code gauge die formed steel with baked white enamel finish.	2 Lamp, 32 W T8	Lithonia AF Series, Columbia Dynamo KL Series, Lightolier KW Series SL or equal
F4		1'x4' recessed fixture, impact resistant and rated for damp locations.	2 Lamp, 48 W T8	Lithonia DMW, Day-Brite DW series, Lightolier STW series or equal
MHI		Outdoor, wall mounted, fully gasketed dark bronze housing with one piece, uv stabilized polycarbonate lenses. 100 W, 120 V, Metal Halide luminaire with integral ballast.	1-100 W Metal Halide	Lithonia, THW Series, Day-Brite WL Series or equal

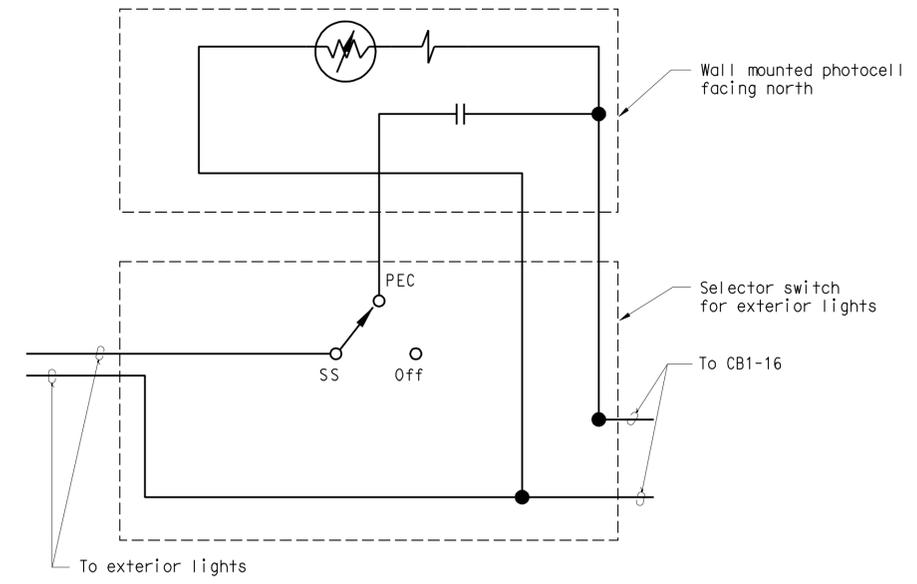
ee1-3.dgn TAEMWW Imper1al Rev. 7/10	DESIGN BY	ARMANDO HERNANDEZ	CHECKED	ROBERT J. FEE	PREPARED FOR THE STATE OF <b>CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTE WATER DESIGN	BRIDGE NO.	48M5710	<b>LEE VINING MAINTENANCE STATION CREW ROOM BUILDING</b>	SHEET	OF
	DETAILS BY	ARMANDO HERNANDEZ	CHECKED	ROBERT J. FEE			POST MILE	X		SINGLE LINE DIAGRAM, LIGHTING FIXTURE SCHEDULE AND PANEL SCHEDULE	<b>EE1-3</b>
	QUANTITIES BY	ARMANDO HERNANDEZ	CHECKED	ROBERT J. FEE			REVISION DATES (PRELIMINARY STAGE ONLY)	- 07 XX-XX-XX			
13-MAR-2013 08:19	CSFM FILE NO.	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0	1	2	3	UNIT PROJECT NUMBER & PHASE	3596 09120000291	EA 35440	DISREGARD PRINTS BEARING EARLIER REVISION DATES	ee1-3.dgn

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	395	51.5	68	68

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 DATE 1-21-13  
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 Exp. 6.30.13  
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 STATE OF CALIFORNIA

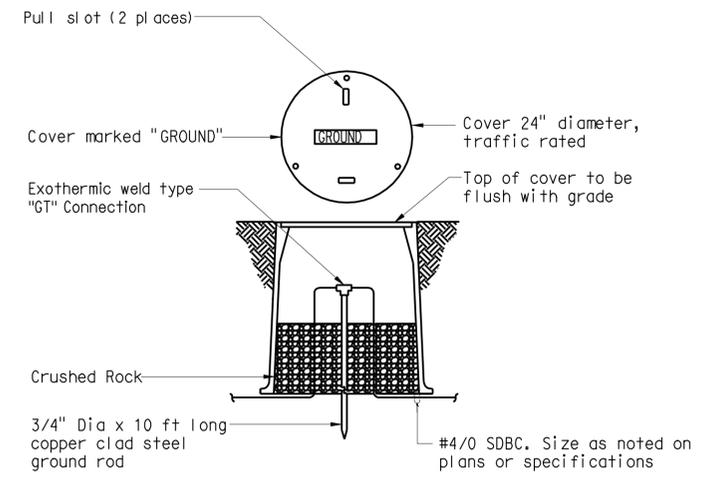
3-11-13  
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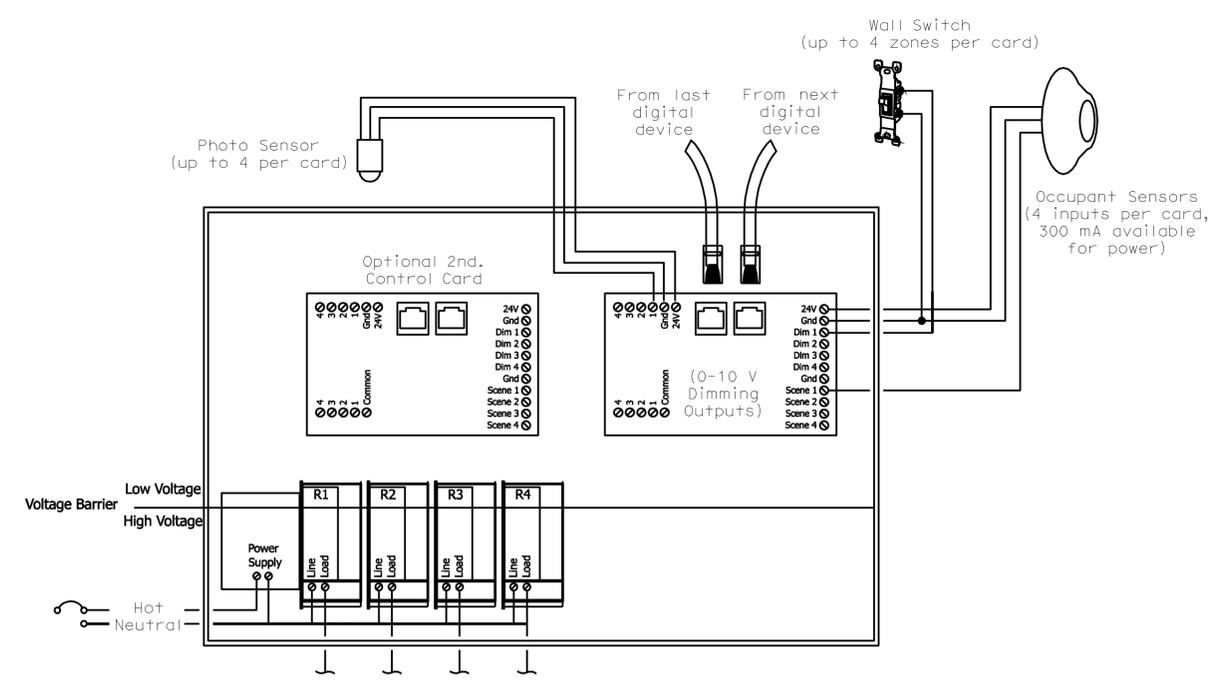


Note: Refer to sheet EE1-2 for equipment location.

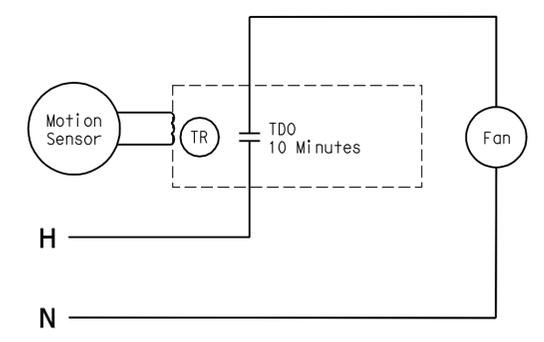
1 **OLCS SCHEMATIC WIRING DIAGRAM**  
NOT TO SCALE



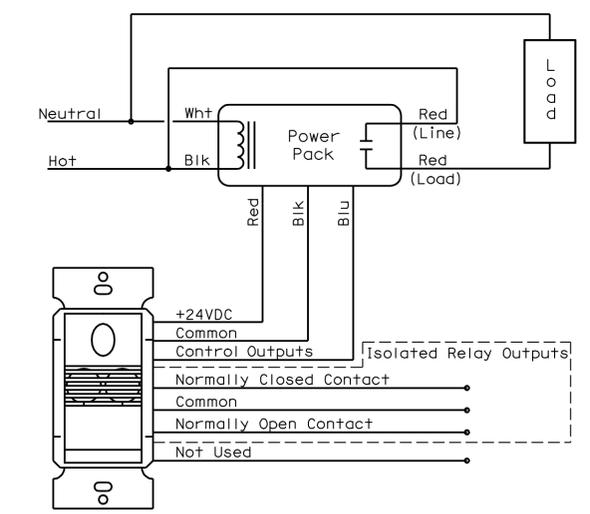
3 **GROUND ROD TEST WELL DETAIL**  
NOT TO SCALE



2 **LIGHTING MICROPANEL DETAIL**  
NOT TO SCALE



4 **FAN/SENSOR WIRING DIAGRAM**  
NOT TO SCALE



Note: Maximum number of switches per power pack depends on the model of switch. See the product data sheet to determine the specific current consumption of each switch.

5 **LOW VOLTAGE SWITCH WIRING DIAGRAM**  
NOT TO SCALE

ee1-4.dgn TAEMWW Imperial Rev. 7/10	13-MAR-2013 08:19	CSFM FILE NO.	DESIGN	BY ARMANDO HERNANDEZ	CHECKED ROBERT J. FEE	PREPARED FOR THE STATE OF <b>CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTE WATER DESIGN	BRIDGE NO.	48M5710	LEE VINING MAINTENANCE STATION CREW ROOM BUILDING	SHEET <b>EE1-4</b>
			DETAILS	BY ARMANDO HERNANDEZ	CHECKED ROBERT J. FEE			POST MILE			
			QUANTITIES	BY ARMANDO HERNANDEZ	CHECKED ROBERT J. FEE	UNIT PROJECT NUMBER & PHASE	3596 09120000291	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3	EA 35440		- -07			

13-MAR-2013 08:19