

INDEX OF PLANS

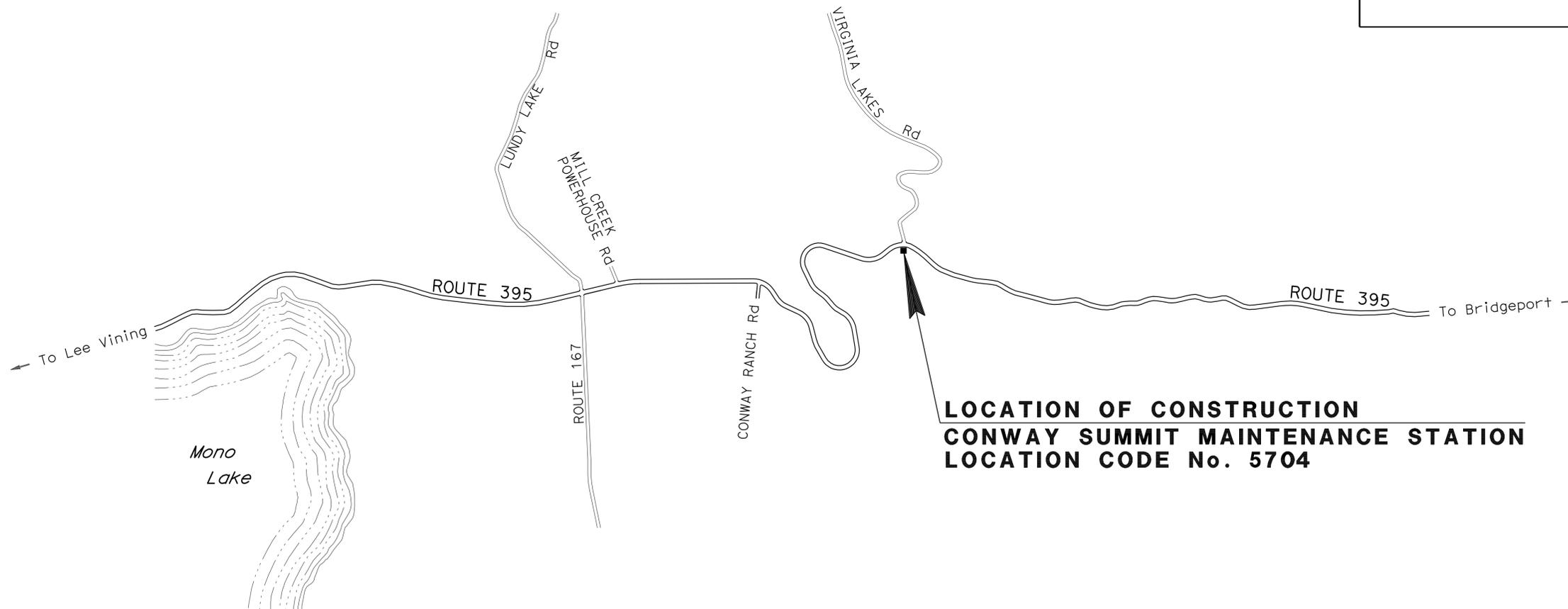
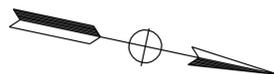
SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2-5	REVISED AND NEW STANDARD PLANS
BUILDING PLANS	
6-17	ARCHITECTURAL PLANS
18-31	STRUCTURAL PLANS
32-37	MECHANICAL PLANS
38-47	ELECTRICAL PLANS
48-52	SANITARY PLANS

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

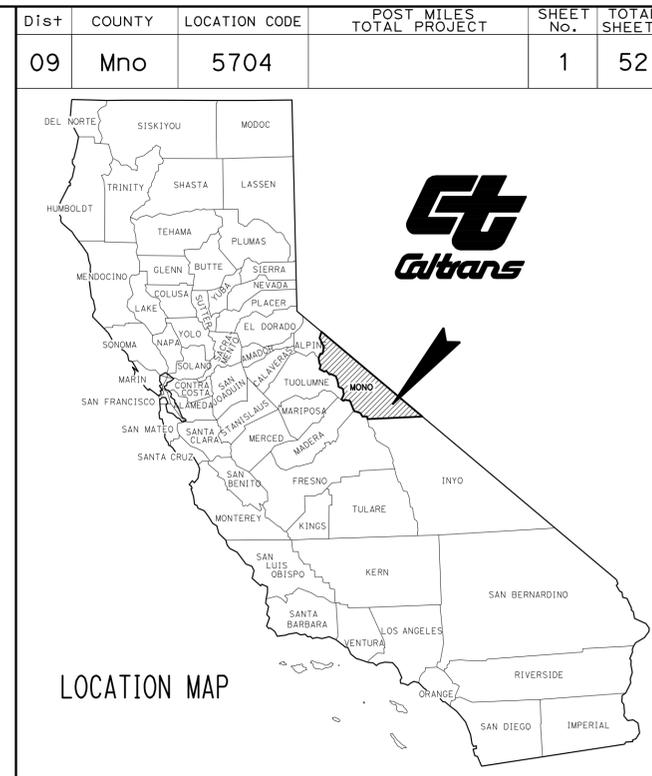
PROJECT PLANS FOR BUILDING CONSTRUCTION  
ADJACENT TO STATE HIGHWAY  
IN MONO COUNTY  
ABOUT 11.8 MILES NORTH  
OF LEE VINING  
AT THE CONWAY SUMMIT MAINTENANCE STATION

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



**LOCATION OF CONSTRUCTION  
CONWAY SUMMIT MAINTENANCE STATION  
LOCATION CODE No. 5704**

NO SCALE



PROJECT MANAGER  
JOHN FOX

DESIGN ENGINEER  
JOHN FOX

*Matthew Goike* 04-22-09  
PROJECT ENGINEER DATE  
REGISTERED CIVIL ENGINEER

June 22, 2009

PLANS APPROVAL DATE

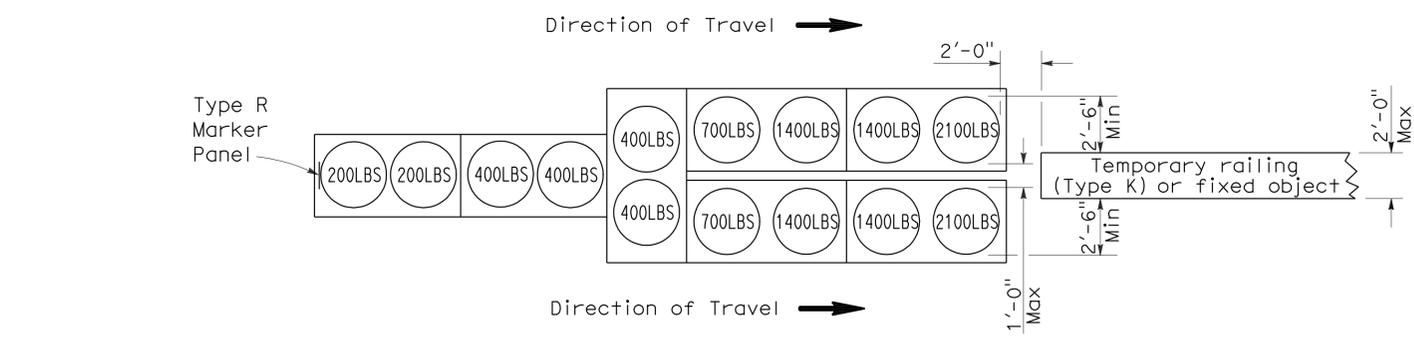
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THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO BIDDERS."

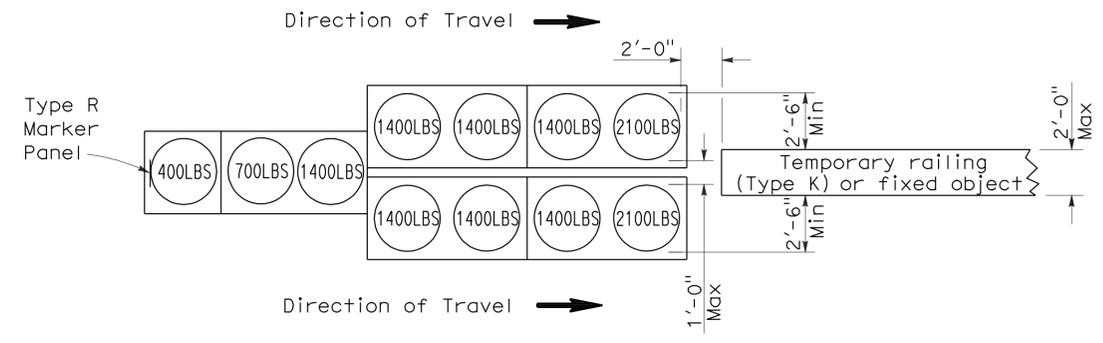


To accompany plans dated 6-22-09



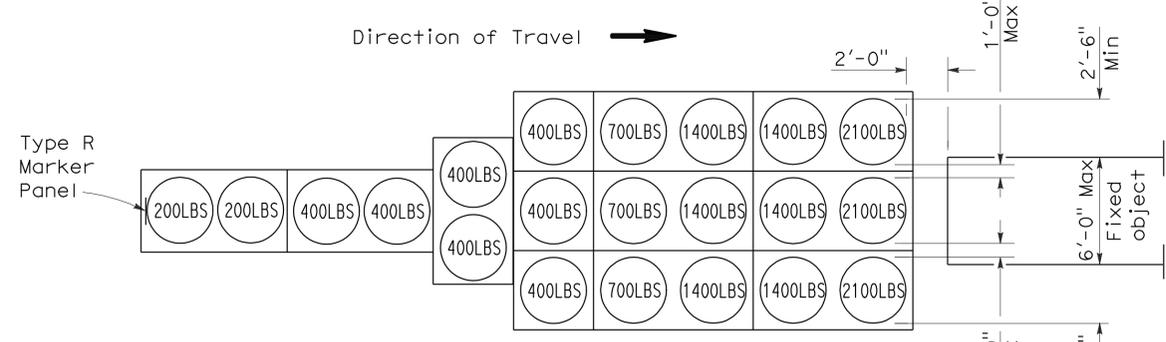
**ARRAY 'TU14'**

Approach speed 45 mph or more



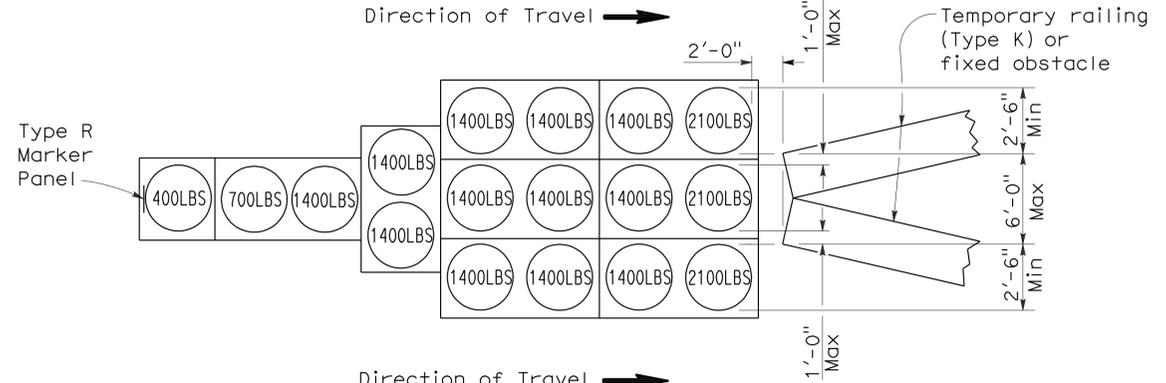
**ARRAY 'TU11'**

Approach speed less than 45 mph



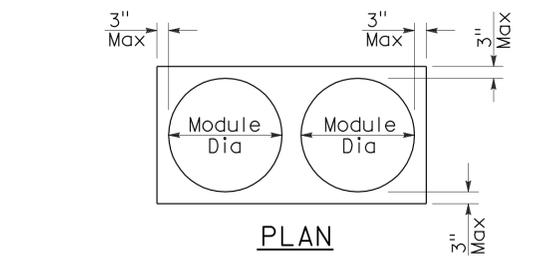
**ARRAY 'TU21'**

Approach speed 45 mph or more

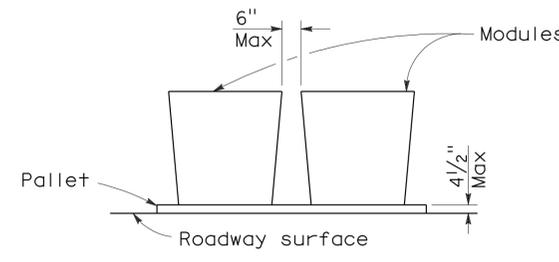


**ARRAY 'TU17'**

Approach speed less than 45 mph



**PLAN**



**ELEVATION**

**CRASH CUSHION PALLET DETAIL**

See Note 7

**NOTES:**

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

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

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

NO SCALE

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

**REVISED STANDARD PLAN RSP T1A**

2006 REVISED STANDARD PLAN RSP T1A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	5704		3	52

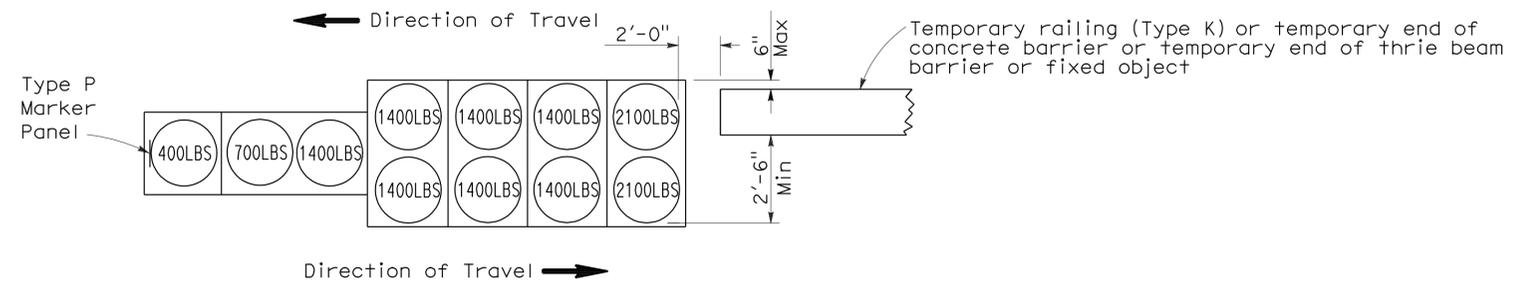
Randell D. Hiatt  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

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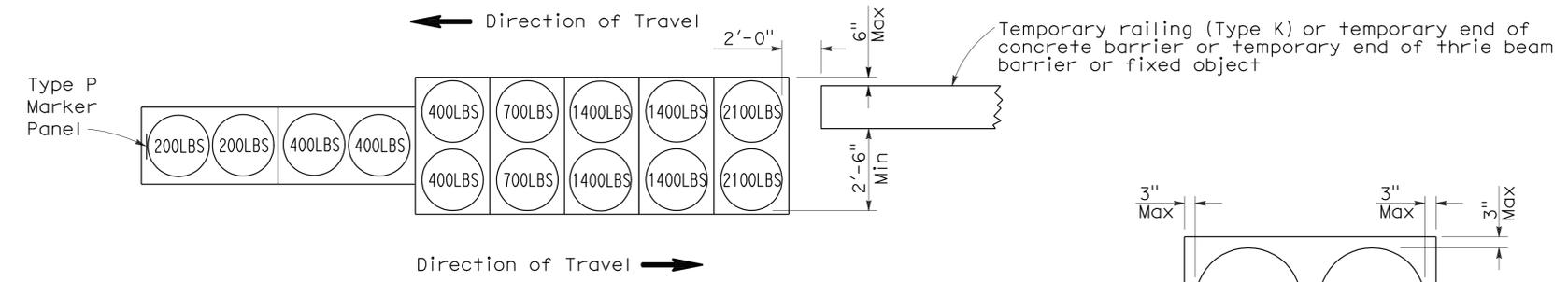
REGISTERED PROFESSIONAL ENGINEER  
Randell D. Hiatt  
No. C50200  
Exp. 6-30-09  
CIVIL  
STATE OF CALIFORNIA

To accompany plans dated 6-22-09



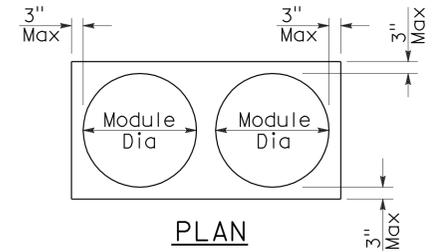
**ARRAY 'TB11'**

Approach speed less than 45 mph

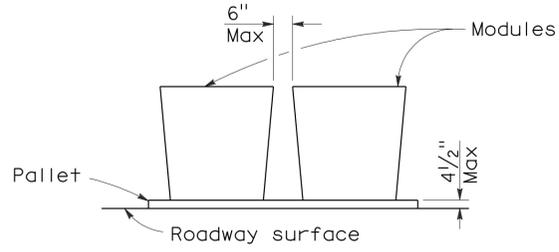


**ARRAY 'TB14'**

Approach speed 45 mph or more



PLAN



ELEVATION

**CRASH CUSHION PALLET DETAIL**

See Note 7

**NOTES:**

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

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

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

NO SCALE

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

**REVISED STANDARD PLAN RSP T1B**

2006 REVISED STANDARD PLAN RSP T1B

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	5704		4	52

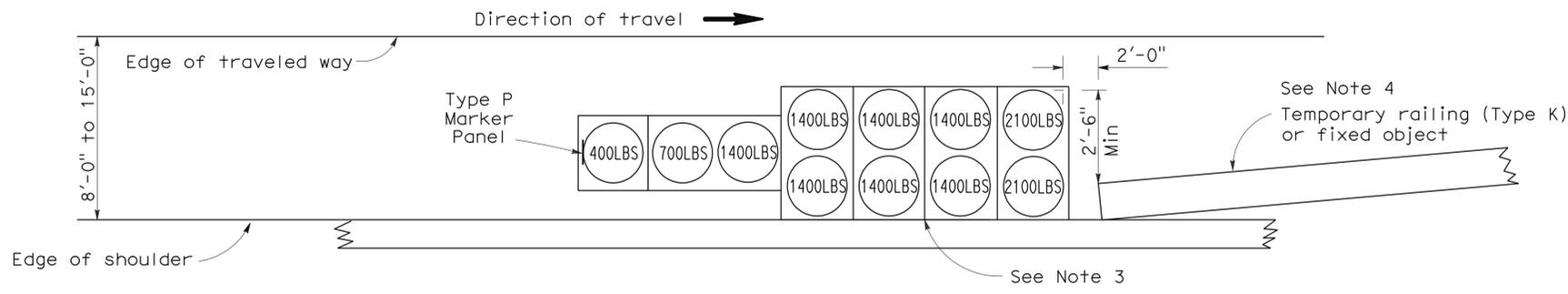
*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

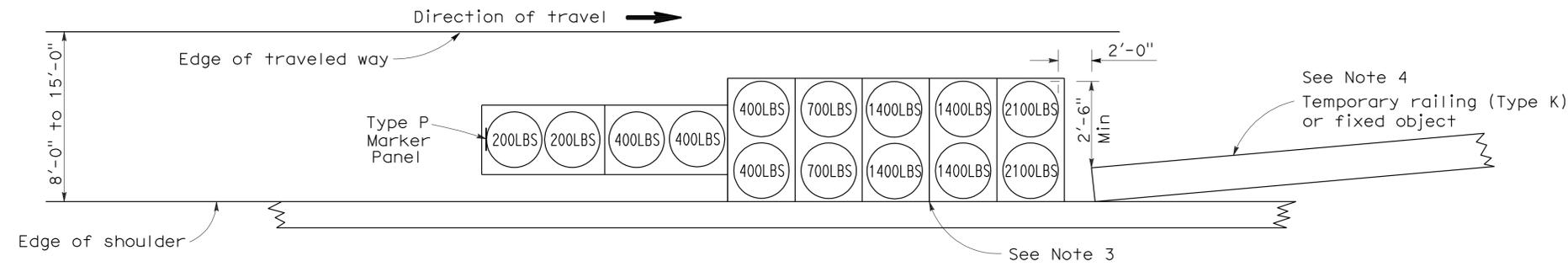
*Randell D. Hiatt*  
REGISTERED PROFESSIONAL ENGINEER  
No. C50200  
Exp. 6-30-09  
CIVIL  
STATE OF CALIFORNIA

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To accompany plans dated 6-22-09



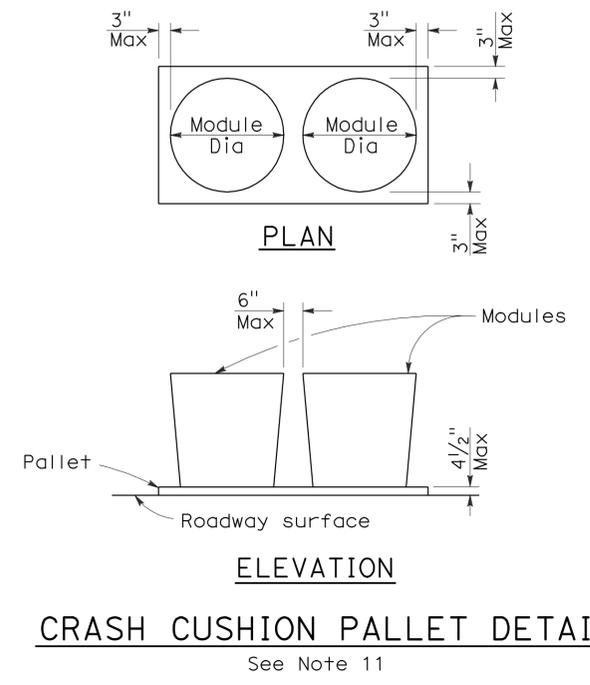
**ARRAY 'TS11'**  
Approach speed less than 45 mph  
See Note 9



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

**NOTES:**

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



STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**TEMPORARY CRASH CUSHION,  
SAND FILLED  
(SHOULDER INSTALLATIONS)**

NO SCALE

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

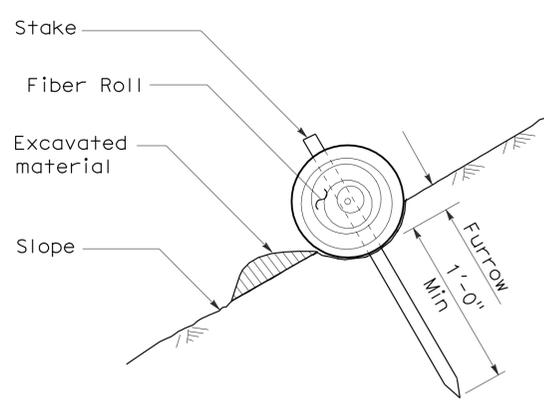
**REVISED STANDARD PLAN RSP T2**

2006 REVISED STANDARD PLAN RSP T2

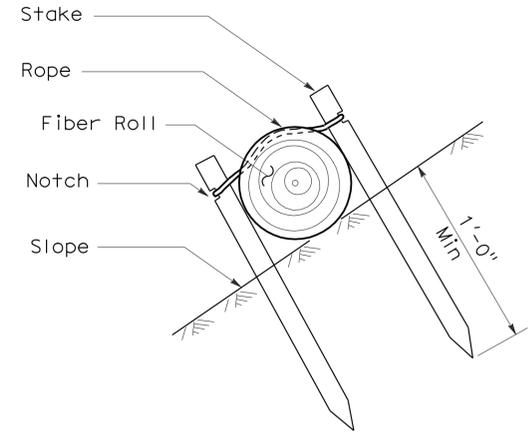
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	5704		5	52

*Robert B. Schott*  
 LICENSED LANDSCAPE ARCHITECT  
 April 3, 2009  
 PLANS APPROVAL DATE  
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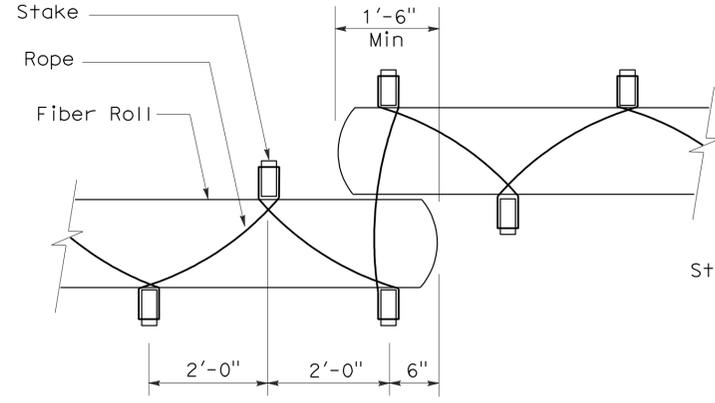
To accompany plans dated 6-22-09



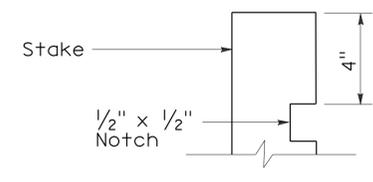
**SECTION**  
**TEMPORARY FIBER ROLL (TYPE 1)**



**SECTION**  
**TEMPORARY FIBER ROLL (TYPE 2)**

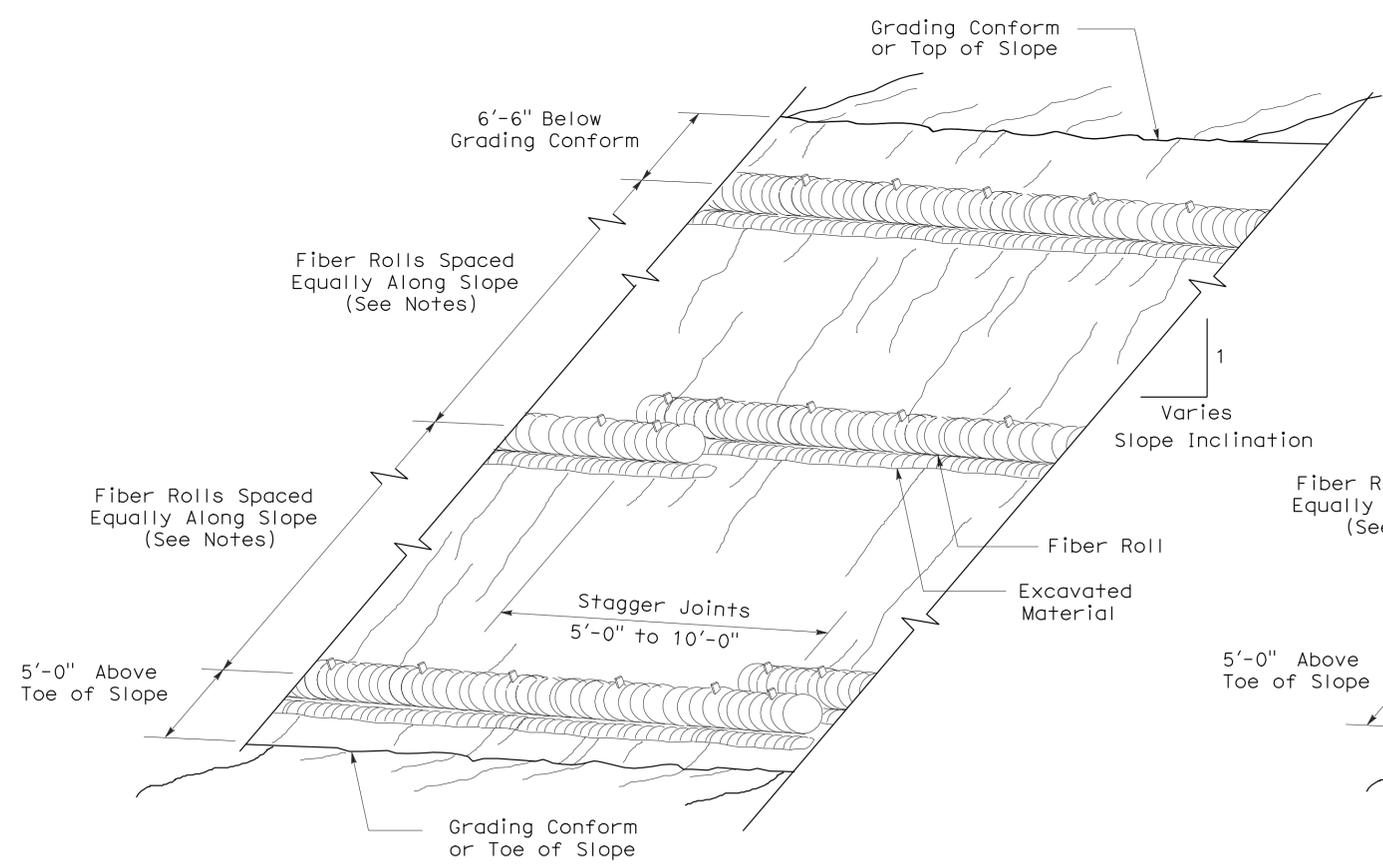


**PLAN**  
**TEMPORARY FIBER ROLL (TYPE 2)**

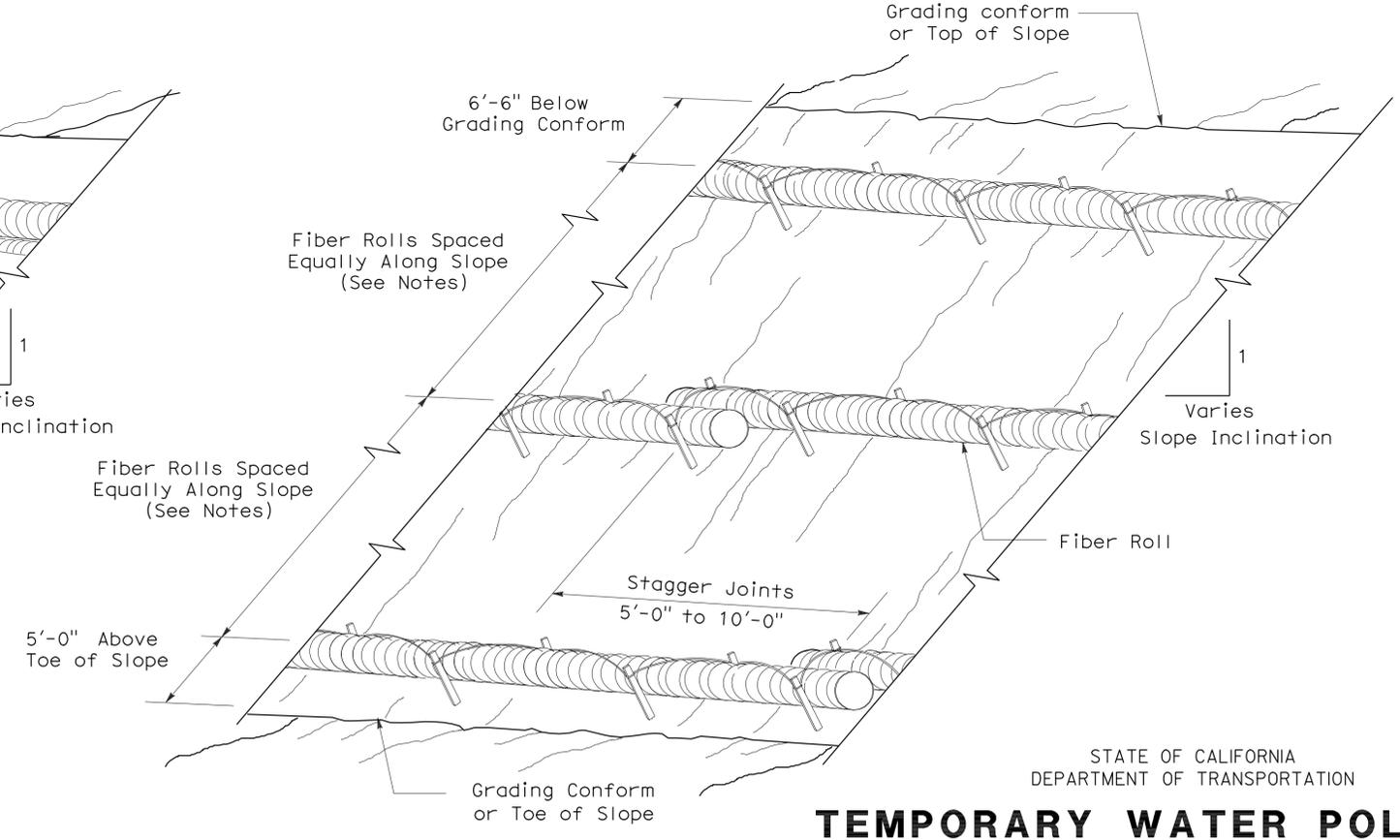


**ELEVATION**  
**STAKE NOTCH DETAIL**

- NOTES:**
1. Temporary fiber roll spacing varies depending upon slope inclination.
  2. Installations shown in the perspectives are for slope inclination of 10:1 and steeper.



**PERSPECTIVE**  
**TEMPORARY FIBER ROLL (TYPE 1)**



**PERSPECTIVE**  
**TEMPORARY FIBER ROLL (TYPE 2)**

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

**TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY FIBER ROLL)**

NO SCALE

RSP T56 DATED APRIL 3, 2009 SUPERSEDES STANDARD PLAN T56 DATED MAY 1, 2006 - PAGE 232 OF THE STANDARD PLANS BOOK DATED MAY 2006.

**REVISED STANDARD PLAN RSP T56**

2006 REVISED STANDARD PLAN RSP T56

# ABBREVIATIONS

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

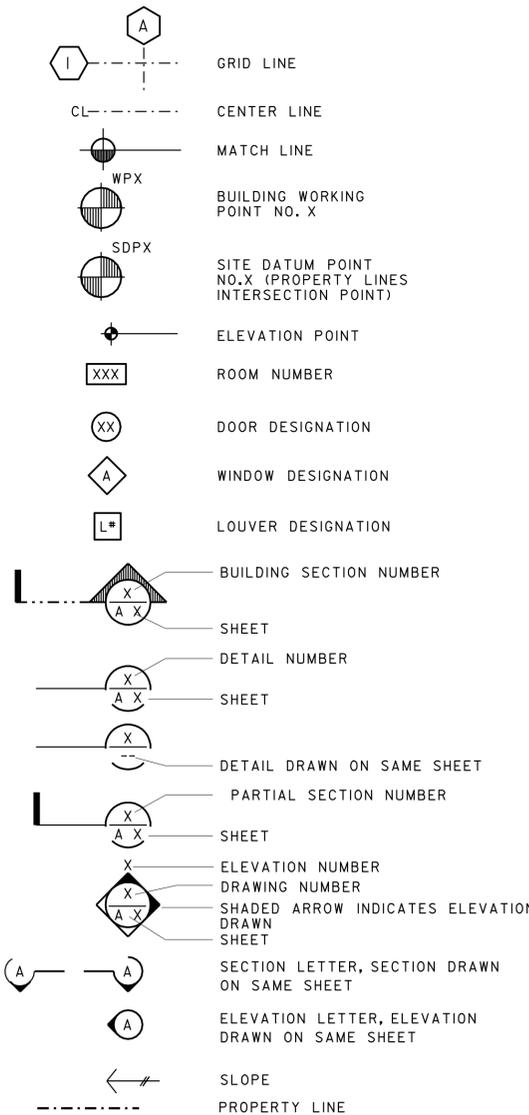
# GENERAL NOTES

1 CONTRACTOR SHALL VERIFY ALL CONTROLLING DIMENSIONS AND FIELD CONDITIONS BEFORE ORDERING OR FABRICATING ANY MATERIALS OR ASSEMBLIES.

# DEFERRED APPROVAL

PRIOR COMMENCING BUILDING WORK, CONTRACTOR SHALL SUBMIT TO STATE ENGINEER COMPLETE SHOP DRAWINGS AND DETAILS OF THE NEW PRE-ENGINEERED METAL BUILDING AS IDENTIFIED IN THESE CONTRACT DOCUMENTS PLANS AND SPECIFICATION ALONG WITH STRUCTURE CALCULATIONS SIGNED BY A CALIFORNIA REGISTERED CIVIL ENGINEER FOR STATE REVIEW AND APPROVAL.

# GRAPHIC SYMBOLS



# SHEET INDEX

ARCHITECTURAL	A0-0GPI	ABBREVIATIONS, BUILDING DATA, SHEET INDEX
	A0-1GP2	REMOVAL PLAN
	A0-2	SITE PLAN
	A0-3.1	OMITTED
	A0-3.2	OMITTED
	A0-3.3	ACCESSIBILITY STANDARD DETAILS
	A0-3.4	ACCESSIBILITY STANDARD DETAILS
	A0-3.5	ACCESSIBILITY STANDARD DETAILS
	AI-1	FLOOR PLAN, ROOF PLAN, PARTIAL REFLECTED CEILING PLAN
	AI-2	BUILDING ELEVATIONS AND COLOR SCHEDULE
AI-3	BUILDING SECTION, ROOF PLAN, SCHEDULES	
AI-4	BUILDING SECTIONS, INTERIOR ELEVATIONS	
A2-1	DETAILS	
A2-2	DETAILS	
STRUCTURAL	ST-1	LEGEND
	ST-2	CONCRETE STANDARD
	ST-3A	WOOD FRAMING GENERIC - NOTES
	ST-3B	WOOD FRAMING GENERIC - DETAILS
	STI-1	FOUNDATION PLAN
	STI-2	BUILDING TRANSVERSE SECTION
	STI-3	BUILDING LONGITUDINAL ELEVATION
	STI-4	FOUNDATION DETAILS
	STI-5	CONCRETE WALL DETAILS
	STI-6	CONCRETE WALLS DETAILS
STI-7	FUEL OIL TANK SLAB PLAN AND DETAIL	
STI-8	LOG OF TEST BORINGS	
STI-9	LOG OF TEST BORINGS	
STI-10	LOG OF TEST BORINGS	
MECHANICAL	M-1	ABBREVIATIONS AND LEGENDS
	M-1.5	TITLE 24 COMPLIANCE CERTIFICATES
	M-2	MECHANICAL PLAN
	M-3	PLUMBING PLAN - RESTROOM
	M-4	SECTIONS / DETAILS 1
M-5	SECTIONS / DETAILS 2	
ELECTRICAL	EEO-0	LEGEND
	EEO-1	TITLE 24 COMPLIANCE
	EEO-2	TITLE 24 COMPLIANCE
	EEO-3	EXISTING SITE PLAN
	EEO-4	MODIFIED SITE PLAN
EEI-1	POWER PLAN 1	
EEI-2	POWER PLAN 2 AND COMMUNICATION PLAN	
EEI-3	LIGHTING PLAN	
EEI-4	ELECTRICAL DETAILS	
EEI-5	PANEL SCHEDULES	
WATER AND WASTE WATER	SS-0	NOTES, LEGEND & ABBREVIATIONS
	SS-1	SITE PLAN
	SS-2	DETAILS - 1
	SS-3	DETAILS - 2
SS-4	DETAILS - 3	

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	5704		6	52

4-13-2009 DATE

6-22-09 PLANS APPROVAL DATE

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ACCESSIBILITY DESIGN APPROVAL STAMP DOT / DES / OTA <b>09-334201</b> DISTRICT - EA	CALIFORNIA STATE FIRE MARSHAL APPROVED Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
Reviewed by: <i>[Signature]</i> Date: 11/10/08	Reviewed by: Pam Emick PAM EMICK Approval date: 12-1-08

# BUILDING DATA

BUILDING CONSTRUCTION TYPE	V B
OCCUPANCY CLASSIFICATION	S2
NUMBER OF STORIES	1
ACTUAL BUILDING HEIGHT	30 FEET
ALLOWABLE BUILDING HEIGHT	40 FEET
BUILDING AREA	3,600 SF
ALLOWABLE AREA PER C.B.C.	13,500 SF
AREA AND/OR HEIGHT INCREASE	NA
FIRE SPRINKLERED	NO
FIRE ALARM	NO
OTHER FIRE PROTECTION SYSTEMS	NO
SMOKE CONTROL SYSTEM	NO
OCCUPANCY LOAD	12

ALL THE BUILDING WORK SHALL COMPLY WITH THE FOLLOWING CODES :

2007 CALIFORNIA BUILDING CODE  
2007 CALIFORNIA ENERGY CODE  
2007 CALIFORNIA FIRE CODE  
2007 CALIFORNIA MECHANICAL CODE  
2007 CALIFORNIA PLUMBING CODE  
2007 CALIFORNIA ELECTRICAL CODE  
AND CURRENT EDITION OF AMERICANS WITH DISABILITIES ACT

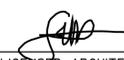
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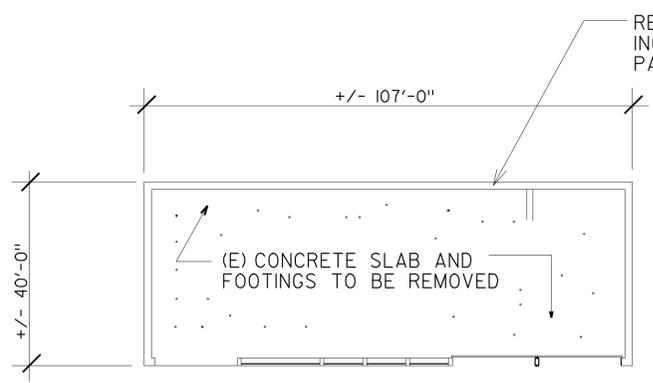
<b>ROOFING :</b>	PRE-FINISHED METAL ROOFING
<b>EXTERIOR WALLS:</b>	PRE-FINISHED METAL SIDING
<b>WALL INSULATION (*):</b>	R-19 VINYL FACED FIBERGLASS BATT INSULATION
<b>ROOF INSULATION (*):</b>	R-30 VINYL FACED FIBERGLASS BATT INSULATION
<b>FLOORING :</b>	REINFORCED CONCRETE SLAB WITH CONCRETE HARDENER AND SEALER. SMOOTH FINISH

(\*): BATT INSULATION SHALL BE INSTALLED TO ALL ROOMS EXCEPT AT SAND AND SALT ROOMS.

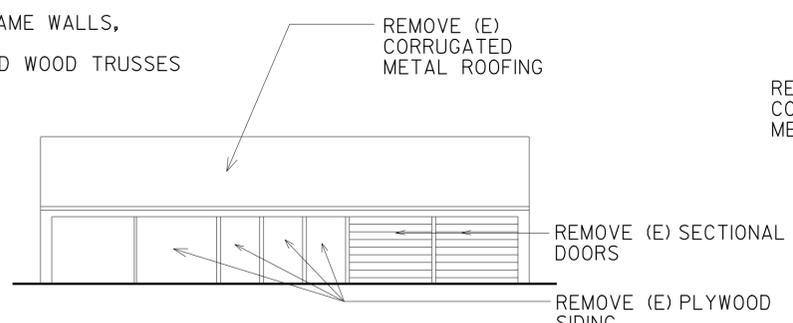
DESIGN SUPERVISOR <i>RE Travis</i>	DESIGNER GOFFREDO RIVECCIO	CHECKED BY CECILIA FAUST	SHEET LEGEND A-1 ARCHITECTURAL ST-1 STRUCTURAL M-1 MECHANICAL EE-1 ELECTRICAL W-1 WATER SUPPLY SS-1 SANITARY	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 47M5704 POST MILE	CINDER/SALT SHED SUMMIT MAINTENANCE STATION GENERAL PLAN ABBREVIATIONS, BUILDING DATA, SHEET INDEX	SHEET <b>A0-0</b> <b>GP1</b>
DESIGN ARCHITECT <i>[Signature]</i>	DRAWN BY GOFFREDO RIVECCIO	STRUCTURAL REVIEW	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	CU 09603 EA 334201	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) - 01 XX-XX-XX	SHEET OF X X	

10-FEB-2010 06:51

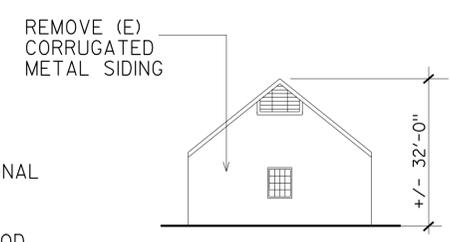
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	5704		7	52
 LICENSED ARCHITECT			4-13-2009 DATE		
6-22-09 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



a FLOOR PLAN



b FRONT ELEVATION  
REAR ELEVATION SIMILAR



c TYPICAL SIDE ELEVATION

ACCESSIBILITY DESIGN APPROVAL STAMP DOT / DES / OTA <b>09-334201</b> DISTRICT - EA Reviewed by:  Date: 11/10/08	CALIFORNIA STATE FIRE MARSHAL <b>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:  PAM EMICK Approval date: 12-1-08
---	---

**2 EXISTING CINDER/SALT SHED BUILDING REMOVAL PLAN**

NTS



DISCONNECT ELECTRICAL CONDUITS (SEE ELECTRICAL DRAWINGS) AND RELOCATE (E) FUEL DIESEL TANK WITH ALL (E) APPURTENANTS TO MAINTAIN ITS FUNCTION AT THE NEW LOCATION. REMOVE (E) FIVE GUARD POSTS AND (E) CONCRETE PAD. FILL AND PATCH THE AREA DISTURBED BY NEW WORK WITH (E) SOIL

REMOVE EXISTING WOOD FRAME BUILDING INCLUDING EXISTING CONCRETE SLAB APPROXIMATELY 100 FEET x 40 FEET AND ALL FOOTINGS. FILL ALL AREAS DISTURBED BY THE NEW WORK WITH BACKFILL MATERIAL AND COMPACT AS SPECIFIED BY SPECIAL PROVISIONS UNDER SECTION 12-2.

**1 REMOVAL PLAN**

NTS

 DESIGN SUPERVISOR  DESIGN ARCHITECT	DESIGNER GOFFREDO RIVECCIO DRAWN BY GOFFREDO RIVECCIO	CHECKED BY CECILIA FAUST STRUCTURAL REVIEW	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 ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 47M5704 POST MILE	<b>CINDER/SALT SHED CONWAY SUMMIT MAINTENANCE STATION</b> REMOVAL PLAN	SHEET OF <b>A0-1 GP2</b>
a0_01.dgn DS OSD Imperial Rev. 11/98 10-FEB-2010 06:51			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	CU 09603 EA 334201	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) - -01 XX-XX-XX	SHEET OF X X	

10-FEB-2010 06:51

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	5704		8	52

	4-13-2009	
LICENSED ARCHITECT	DATE	

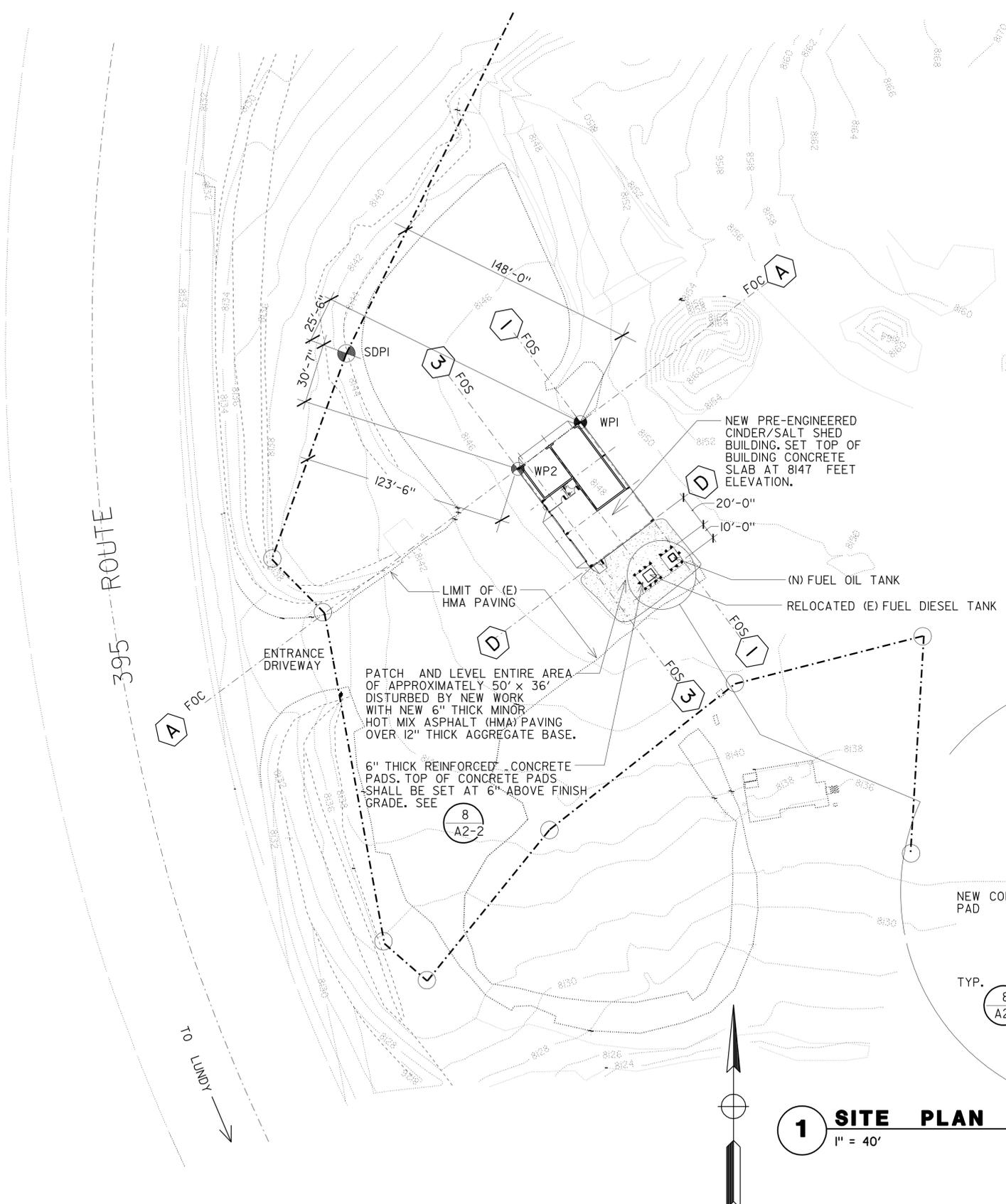
  

6-22-09  
PLANS APPROVAL DATE

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

- ### ACCESSIBILITY NOTES
1. PEDESTRIAN PATH OF TRAVEL (POT) FROM SITE ENTRANCE ON PROPERTY LINE TO NEW BLDG IS NOT REQUIRED TO BE IN THE SCOPE OF WORK, AS NO PUBLIC TRANSPORTATION IS AVAILABLE ON THE ADJOINING STREET, AND ALL USERS OR ANY VISITORS ARRIVE BY PRIVATE VEHICLES ONLY.
  2. EXCEPT (E) SUBJECT BLDG TO BE DEMOLISHED, NO OTHER (E) BLDG ON SITE.
  3. NO PARKING SPACES, ACCESSIBLE OR STANDARD, ARE STRIPED AND IDENTIFIED ON SITE. CONSEQUENTLY, NO EXTERIOR POT MAY BE DEFINED ON SITE PLAN.
  4. EXTERIOR CONCRETE APRON AT SAND AND SALT STORAGES SHALL HAVE 5% MAX SLOPE IN THE DIRECTION OF TRAVEL, AND 2% MAX CROSS SLOPE.
  5. INTERIOR CONCRETE SLAB FOR THE ENTIRE BLDG SHALL HAVE 2% MAX SLOPE IN ANY DIRECTION, EXCEPT AT CRICKETS AT SAND AND SALT STORAGES.
  6. ALL EXTERIOR/INTERIOR DOORS SHALL HAVE CLEAR LEVEL AREAS ON BOTH SIDES OF DOORS W / MAX 2% SLOPE IN ANY DIRECTION. EXTERIOR CLEAR LEVEL AREAS SHALL BE MIN 60" x 60" IN THE DIRECTION OF DOOR SWING (INCLUDING MIN 24" PAST DOOR STRIKE EDGE), AND MIN 48" x 48" OPPOSITE DOOR SWING (INCLUDING MIN 12" PAST DOOR STRIKE EDGE IF DOOR HAS BOTH A LATCH AND A CLOSER). INTERIOR CLEAR LEVEL AREAS SHALL BE MIN 60" DEEP x 54" WIDE IN THE DIRECTION OF DOOR SWING (INCLUDING MIN 18" PAST DOOR STRIKE EDGE), AND MIN 48" x 48" OPPOSITE DOOR SWING (INCLUDING MIN 12" PAST DOOR STRIKE EDGE IF DOOR HAS BOTH A LATCH AND A CLOSER).
  7. LEVEL CHANGE AT DOORWAY, INCLUDING ANY THRESHOLD THICKNESS, SHALL BE MAX 1/2" W/MAX 1:2 SLOPE, AND LEVEL CHANGE NOT EXCEEDING 1/4" MAY BE VERTICAL.
  8. AISLES FORMED BY EQUIPMENT / STORED MATERIALS / WALLS AT ANY AREAS SHALL BE MIN 36" WIDE IF SERVING ONE SIDE, AND MIN 44" WIDE IF SERVING BOTH SIDES.
  9. PATCHED ASPHALT AREA AROUND NEW CONCRETE PADS SHALL HAVE MAX 2% SLOPE IN ANY DIRECTIONS.

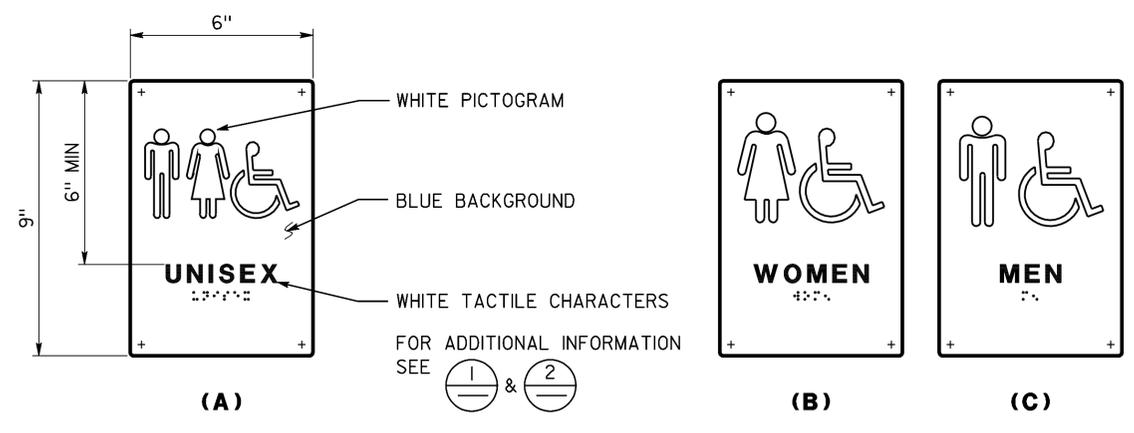
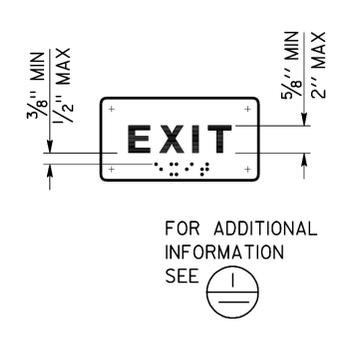
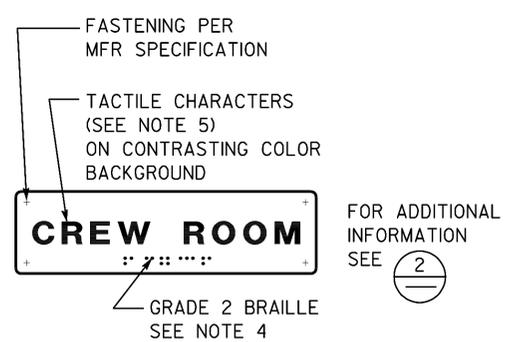
<b>ACCESSIBILITY DESIGN APPROVAL STAMP</b> DOT / DES / OTA <b>09-334201</b> DISTRICT - EA  Reviewed by: Date: 11/10/08	<b>CALIFORNIA STATE FIRE MARSHAL APPROVED</b> Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times. Reviewed by: <u>Pam Emick</u> PAM EMICK Approval date: 12-1-08
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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	5704		9	52

<i>[Signature]</i>		8-20-08	
LICENSED ARCHITECT		DATE	
6-22-09			
PLANS APPROVAL DATE			
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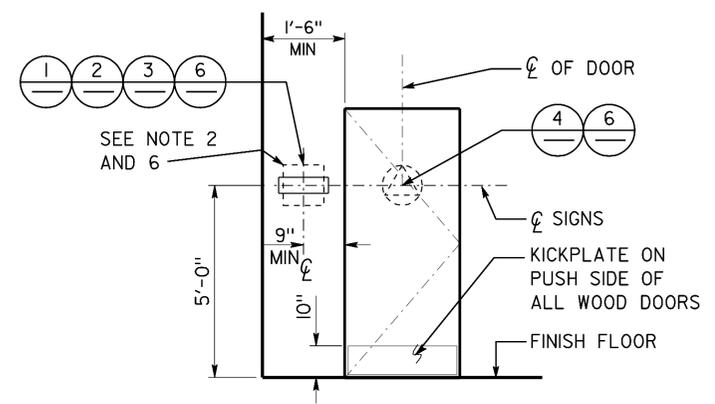
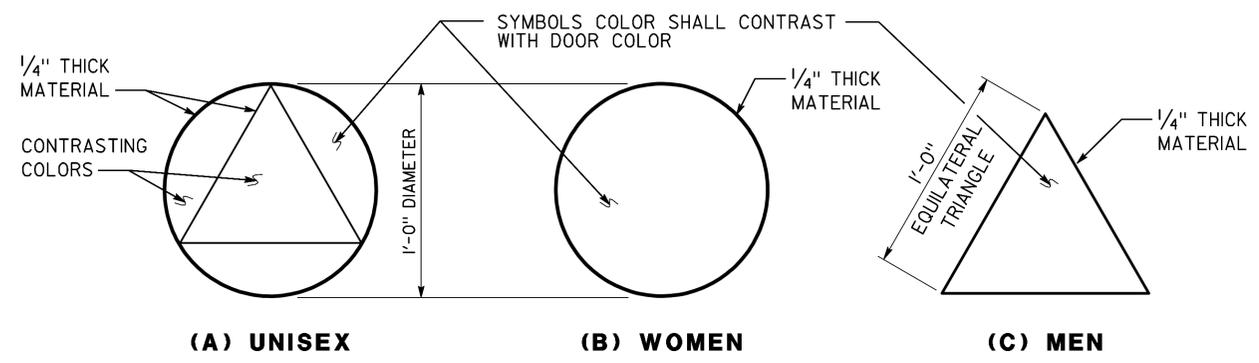


**1 ROOM IDENTIFICATION SIGN**  
 INSTALL PER DETAIL 5  
 TEXT VARIES  
 SEE PLANS, EXT ELEVATIONS, OR DOOR SCHEDULE FOR LOCATIONS AND TEXT

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

**3 RESTROOM SIGNS**  
 INSTALL PER DETAIL 5

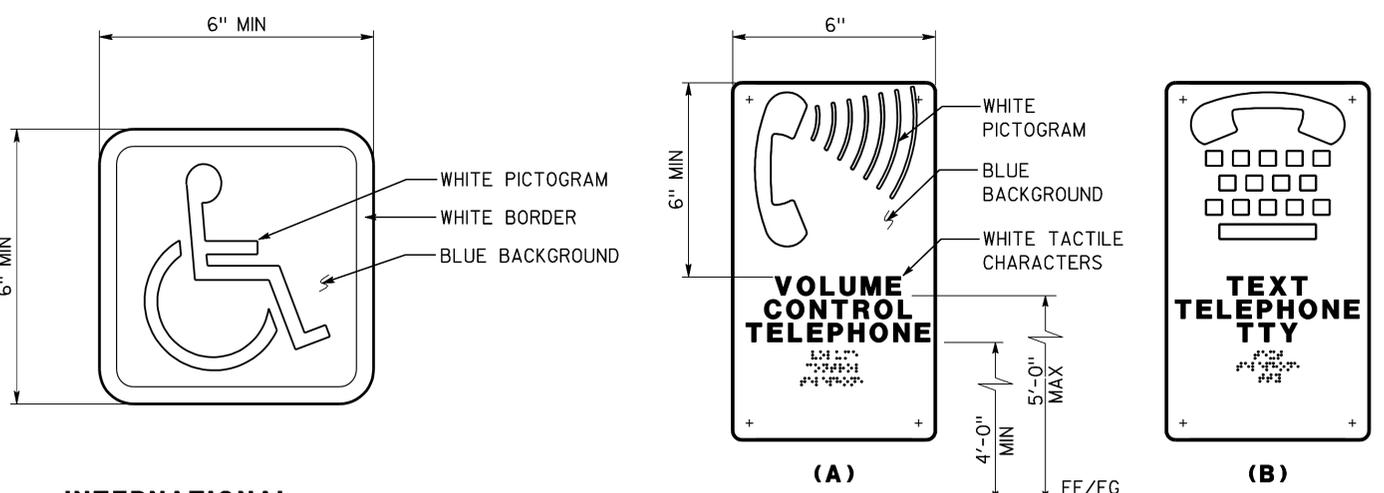
ACCESSIBILITY DESIGN APPROVAL STAMP DOT / DES / OTA <b>09-334201</b> DISTRICT - EA	CALIFORNIA STATE FIRE MARSHAL APPROVED Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approvals subject to field inspection. One set of approved plans shall be available on the project site at all times. Reviewed by: <i>[Signature]</i> Date: 11/10/08
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- SIGNAGE NOTES:**
- LOCATE ROOM IDENTIFICATION SIGNS, EXIT SIGNS, AND RESTROOM SIGNS ON WALL ADJACENT TO DOOR ON LATCH SIDE. IF WALL SPACE IS NOT AVAILABLE ON LATCH SIDE, LOCATE ON NEAREST ADJACENT WALL.
  - REFER TO SPECIFICATIONS FOR SIGN MATERIAL AND COLOR SELECTION. COLORS MAY VARY FROM DETAILS.
  - SEE DOOR SCHEDULE FOR TEXT AND SIGN LOCATIONS, UON.
  - GRADE 2 BRAILLE: DOTS SHALL BE 1/10" OC IN EACH CELL WITH 2/10" SPACE BETWEEN CELLS MEASURED FROM THE SECOND COLUMN OF DOTS IN THE FIRST CELL TO THE FIRST COLUMN OF DOTS IN THE SECOND CELL. DOTS SHALL BE RAISED A MINIMUM OF 1/40" ABOVE THE BACKGROUND.
  - TACTILE CHARACTERS SHALL BE UPPERCASE SANS SERIF RAISED 1/32" MIN WITH A WIDTH TO HEIGHT RATIO BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH TO HEIGHT RATIO BETWEEN 1:5 AND 1:10.
  - PROVIDE 18"x18" MIN CLEAR FLOOR SPACE IN FRONT OF AND CENTERED ON THE SIGN.

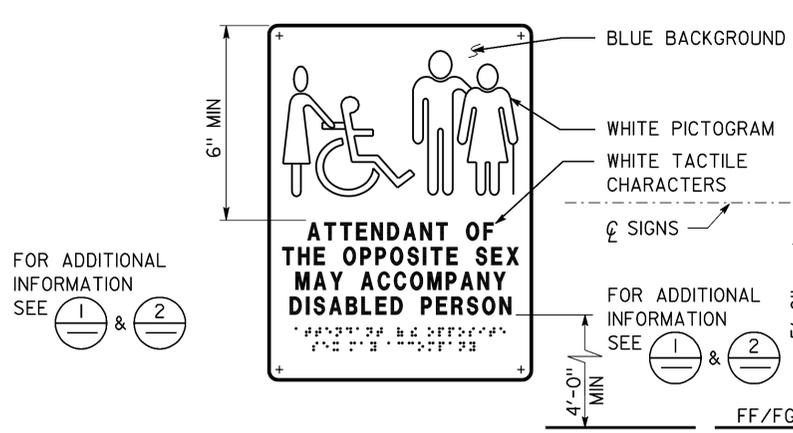
**4 RESTROOM IDENTIFICATION SYMBOLS**  
 INSTALL PER DETAIL 5  
 ANY PICTOGRAM AND TEXT ARE NOT REQUIRED

**5 SIGN LOCATIONS**  
 REFER TO SIGNAGE NOTES FOR ADDITIONAL INFORMATION

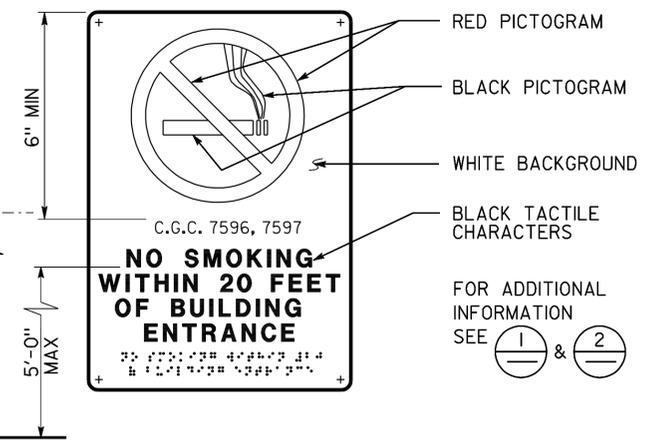


**6 INTERNATIONAL SYMBOL OF ACCESSIBILITY**  
 INSTALL PER DETAIL 5  
 SEE PLANS, EXT ELEVATIONS, OR SCHEDULE FOR SIGN LOCATIONS  
 SYMBOL MAY BE ON DOOR OR WALLS.  
 DECAL MAY BE USED ON DOORS OR SMOOTH WALLS

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



**8 RESTROOM ACCOMPANY SIGN**  
 SEE PLANS OR ELEVATIONS FOR LOCATIONS

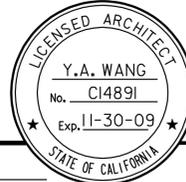


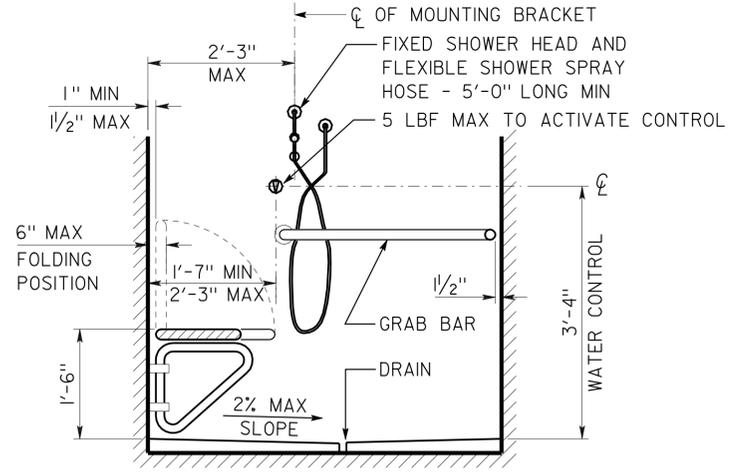
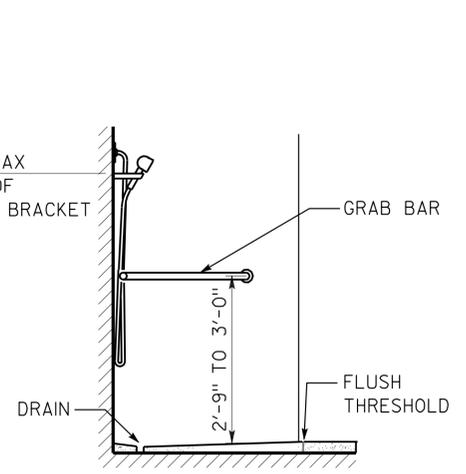
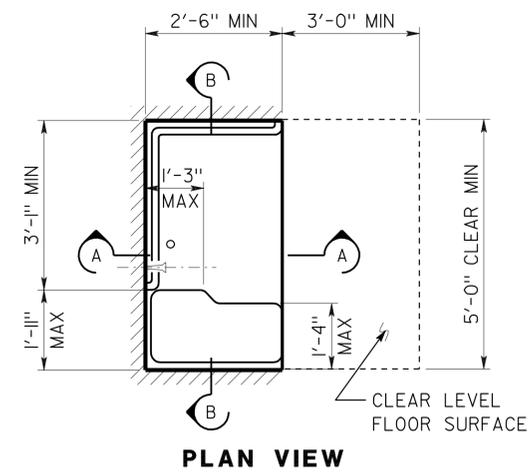
**9 NO SMOKING SIGN**  
 SEE PLANS OR EXTERIOR ELEVATIONS FOR LOCATIONS

**DETAILS**  
 NO SCALE UNLESS OTHERWISE NOTED

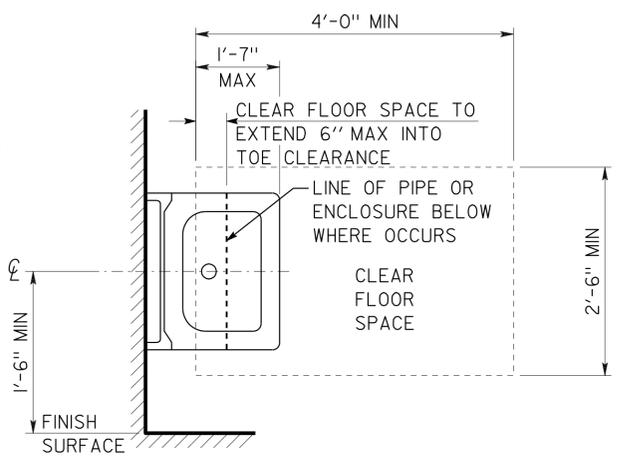
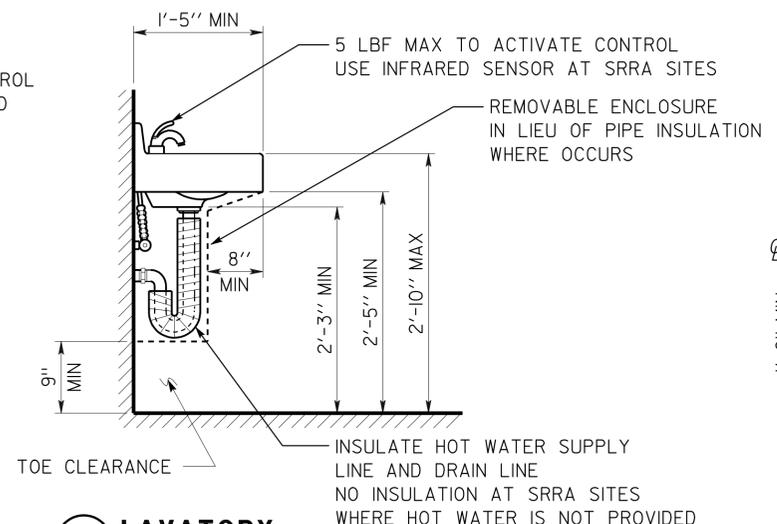
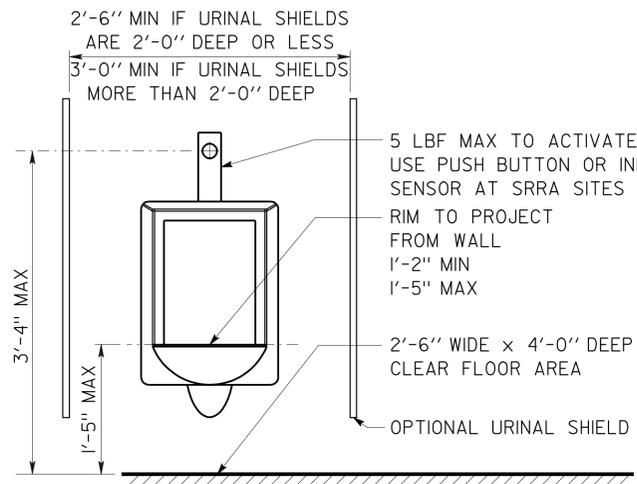
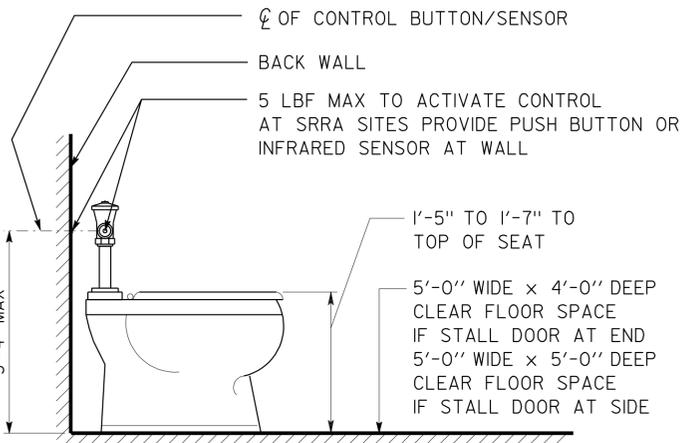
NOTE: SPECIFIC DETAILS OR NOTES ON OTHER SHEETS SHALL PREVAIL OVER STANDARD DETAILS AND NOTES ON THIS SHEET

STANDARD DRAWING				STATE OF CALIFORNIA		DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN		BRIDGE NO. 47M5704		CINDER/SALT SHED CONWAY SUMMIT MAINTENANCE STATION		SHEET A0-3.3	
FILE NO. 08-08	DESIGN BY D. ALSEY	CHECKED Y.A. WANG	APPROVED <i>[Signature]</i>	DEPARTMENT OF TRANSPORTATION		STRUCTURAL DESIGN		POST MILE		ACCESSIBILITY ACCESSIBILITY STANDARD DETAILS		SHEET OF	
SUBMITTED BY Y.A. WANG				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		CU 09603 EA 334201		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF	

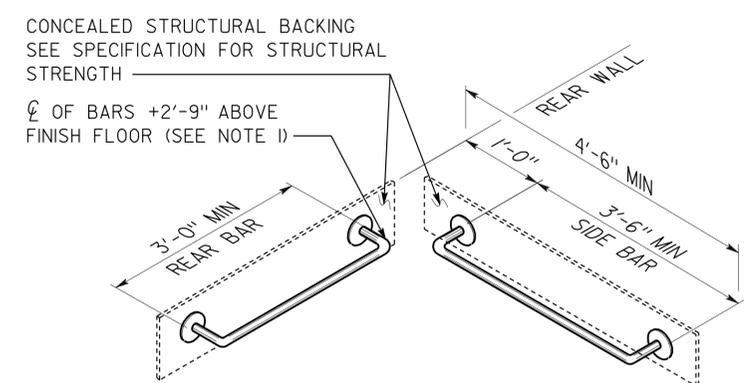
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	5704		10	52
 LICENSED ARCHITECT			8-20-08		
PLANS APPROVAL DATE: 6-22-09 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



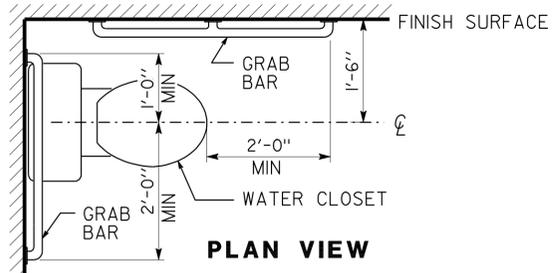
**1 SHOWER STALL**  
OMIT AT SRRA SITES



**2 WATER CLOSET**  
SEE SPEC FOR FIXTURE TYPE

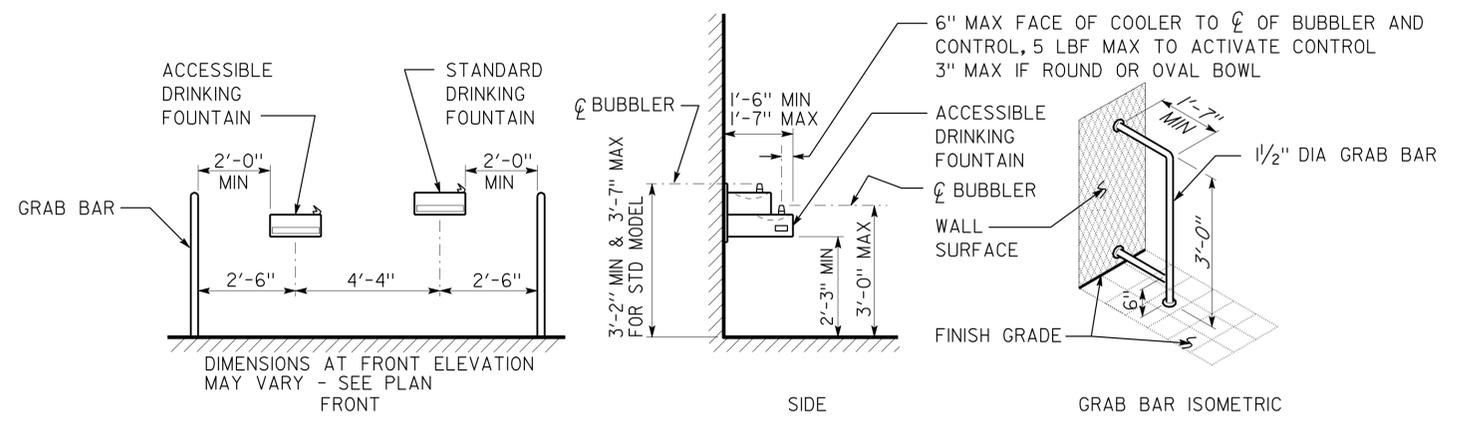


**3 URINAL**



- GRAB BAR NOTE:**
- 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 ABOVE.
  - GRAB BARS TO BE 1 1/4" TO 1 1/2" DIAMETER WITH CLEAR SPACE OF 1 1/2" TO SMOOTH WALL SURFACE.

**4 LAVATORY**



**6 ELECTRIC WATER COOLER**  
FOR PROJECTS WITH APPROVED UNREASONABLE HARDSHIPS ONLY  
FIXTURE TYPE MAY VARY

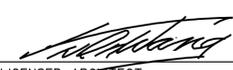
**DETAILS**  
NO SCALE UNLESS OTHERWISE NOTED

**5 GRAB BARS/ WATER CLOSET**

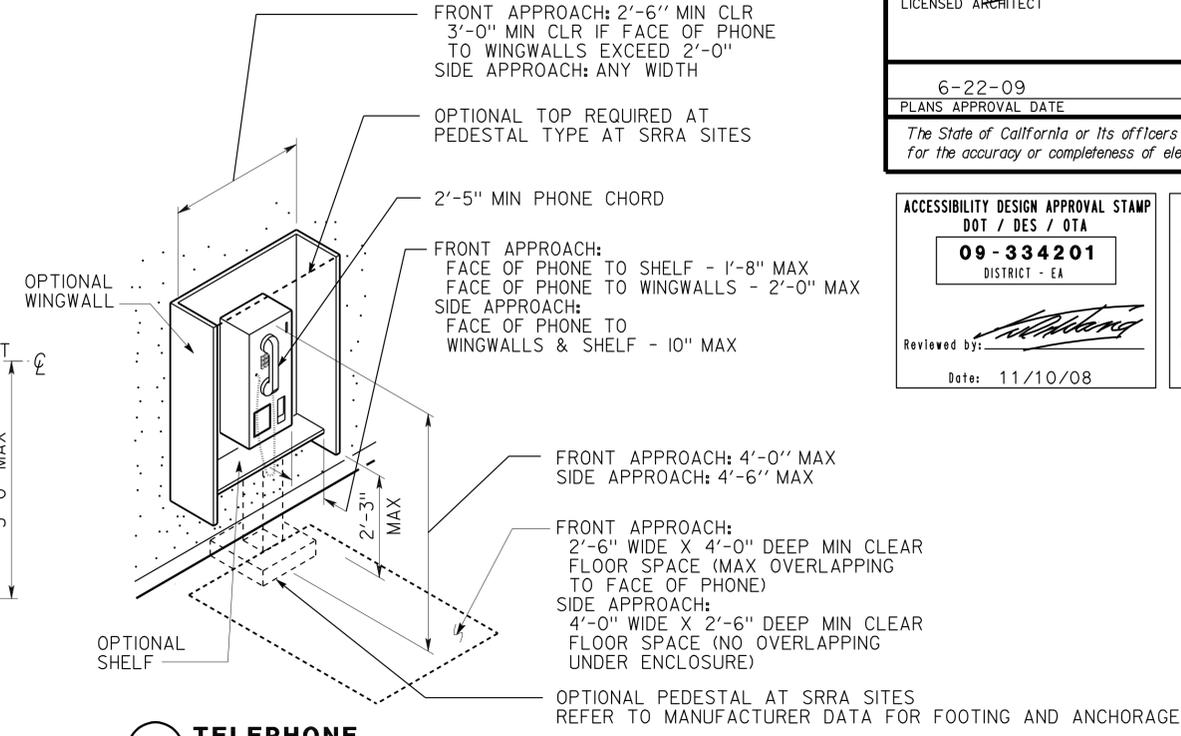
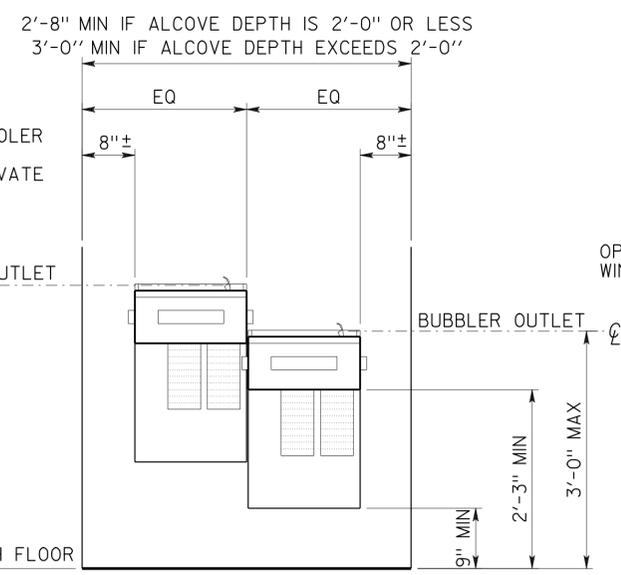
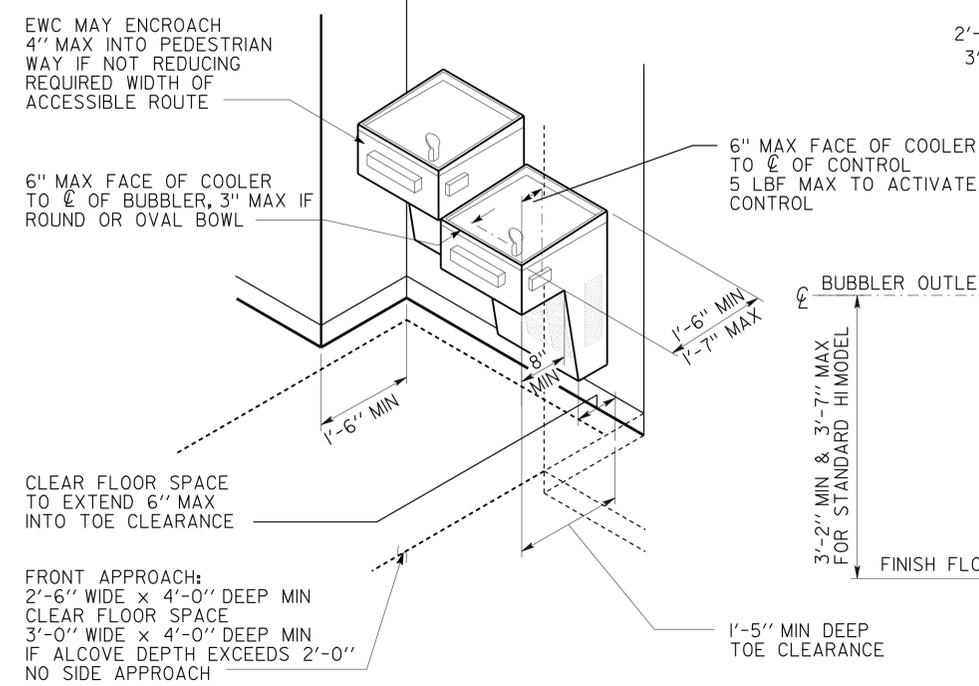
NOTE: SPECIFIC DETAILS OR NOTES ON OTHER SHEETS SHALL PREVAIL OVER STANDARD DETAILS AND NOTES ON THIS SHEET

STANDARD DRAWING				STATE OF CALIFORNIA		DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN		BRIDGE NO. 47M5704		CINDER/SALT SHED CONWAY SUMMIT MAINTENANCE STATION		SHEET A0-3.4	
FILE NO. 08-08	DESIGN BY D. ALSEY	CHECKED Y.A. WANG	APPROVED R.E. Travis DESIGN SUPERVISOR	DEPARTMENT OF TRANSPORTATION		STRUCTURAL DESIGN		POST MILE		ACCESSIBILITY ACCESSIBILITY STANDARD DETAILS		SHEET OF	
SUBMITTED BY Y.A. WANG				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		CU 09603 EA 334201		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF	
DS OSD Imperial Rev. 11/98 10-FEB-2010 06:54				0 1 2 3									

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	5704		11	52

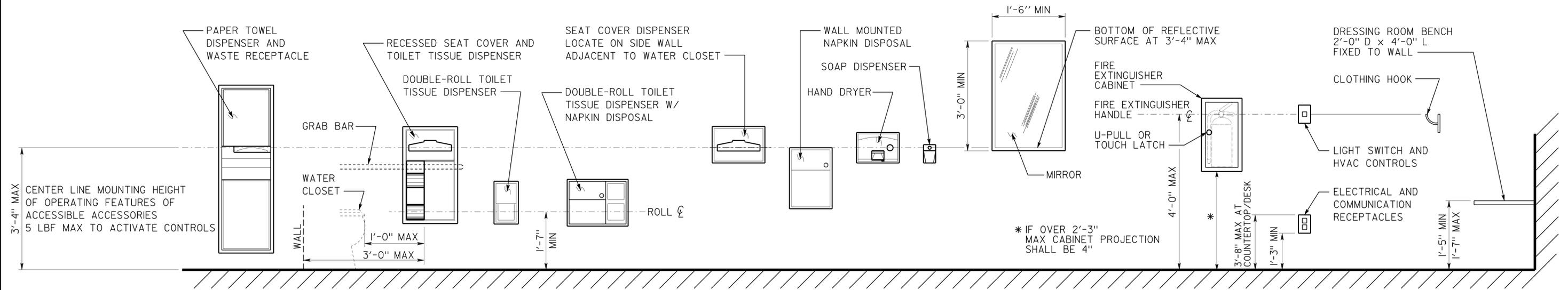
  
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 DATE 8-20-08  
 PLANS APPROVAL DATE 6-22-09  
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 Reviewed by:   
 PAM EMICK  
 Approval date: 12-1-08



**1 ALCOVE ELECTRIC WATER COOLER**  
FIXTURE TYPE MAY VARY

**2 TELEPHONE**



**3 ACCESSORIES**

**DETAILS**  
NO SCALE UNLESS OTHERWISE NOTED

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

STANDARD DRAWING				STATE OF CALIFORNIA		DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN		BRIDGE NO. 47M5704		CINDER/SALT SHED CONWAY SUMMIT MAINTENANCE STATION		SHEET A0-3.5	
FILE NO. 08-08	DESIGN BY D. ALSEY	CHECKED Y.A. WANG	APPROVED 	DEPARTMENT OF TRANSPORTATION		ARCHITECTURAL AND STRUCTURAL DESIGN		POST MILE		ACCESSIBILITY ACCESSIBILITY STANDARD DETAILS		SHEET OF	
DATE 08-08	DETAILS BY D. GOOD	CHECKED Y.A. WANG	DESIGN SUPERVISOR	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		CU 09603 EA 334201		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF	
SUBMITTED BY Y.A. WANG				10-FEB-2010 06:54		0 1 2 3		- 01					

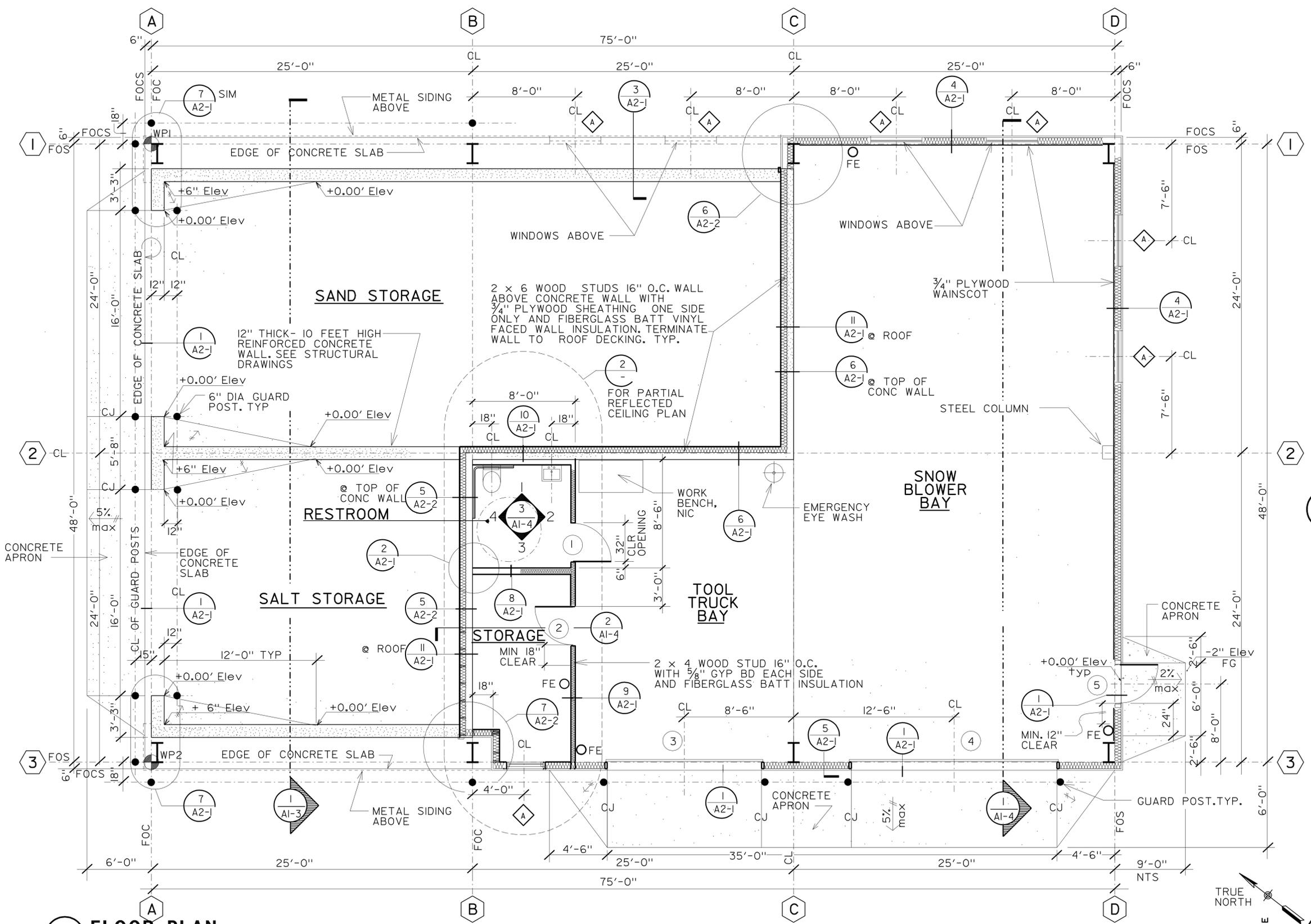
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	5704		12	52

12-2-08 DATE  
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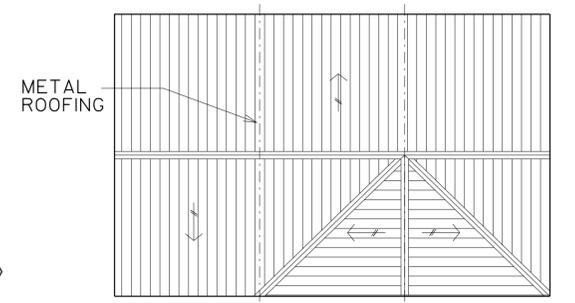


**ACCESSIBILITY DESIGN APPROVAL STAMP**  
 DOT / DES / OTA  
**09-334201**  
 DISTRICT - EA  
 Reviewed by: *[Signature]*  
 Date: 11/10/08

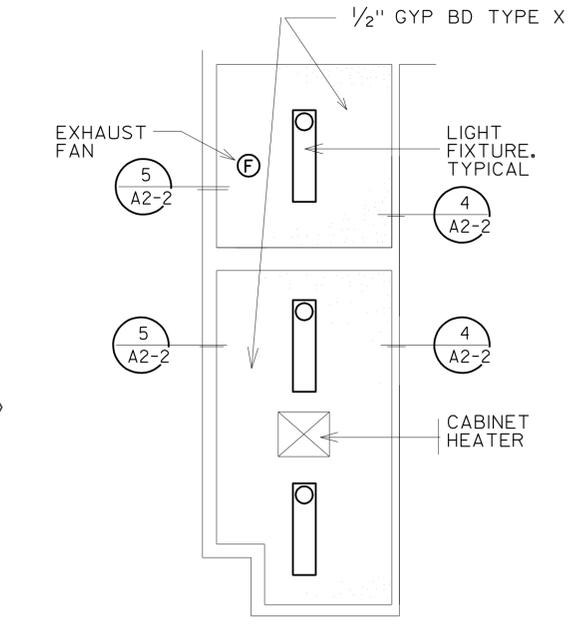
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**1 FLOOR PLAN**  
1/4" = 1'-0"



**3 ROOF PLAN**  
NTS



**2 PARTIAL REFLECTED CEILING PLAN**  
NTS

DESIGN	BY GOFFREDO RIVIECCIO	CHECKED WARREN LAI
DETAILS	BY GOFFREDO RIVIECCIO	CHECKED WARREN LAI
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF ENGINEERING SERVICES  
 ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE NO.	47M5704
POST MILE	

**CINDER/SALT SHED CONWAY SUMMIT MAINTENANCE STATION**  
 FLOOR PLAN, ROOF PLAN, PARTIAL REFLECTED CEILING PLAN

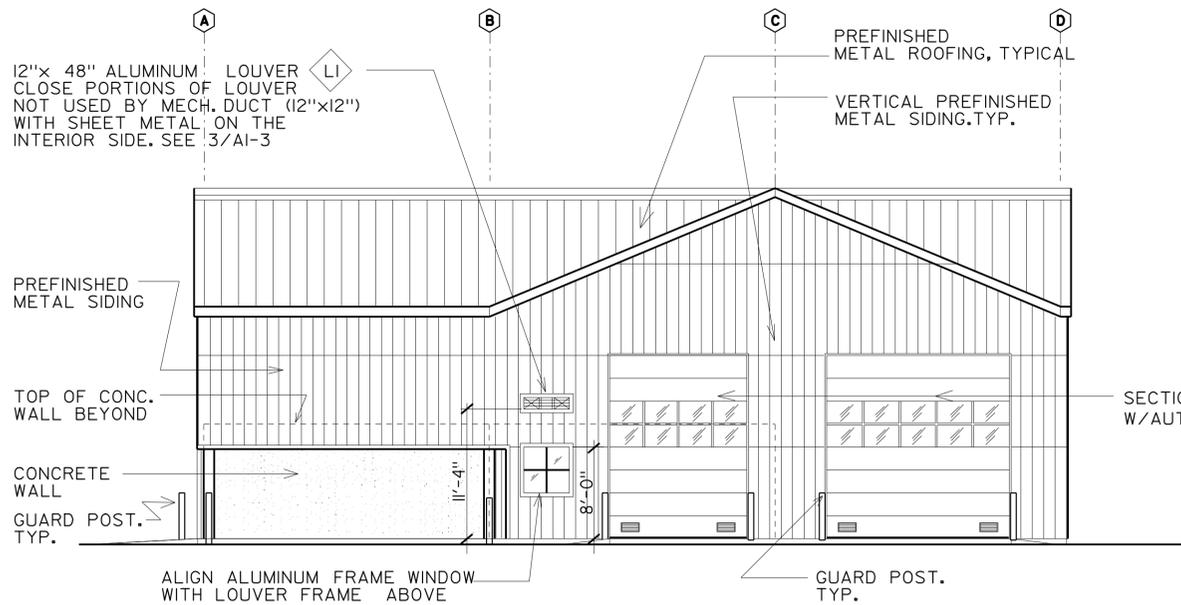
SHEET **A1-1**

10-FEB-2010 06:55

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	5704		13	52

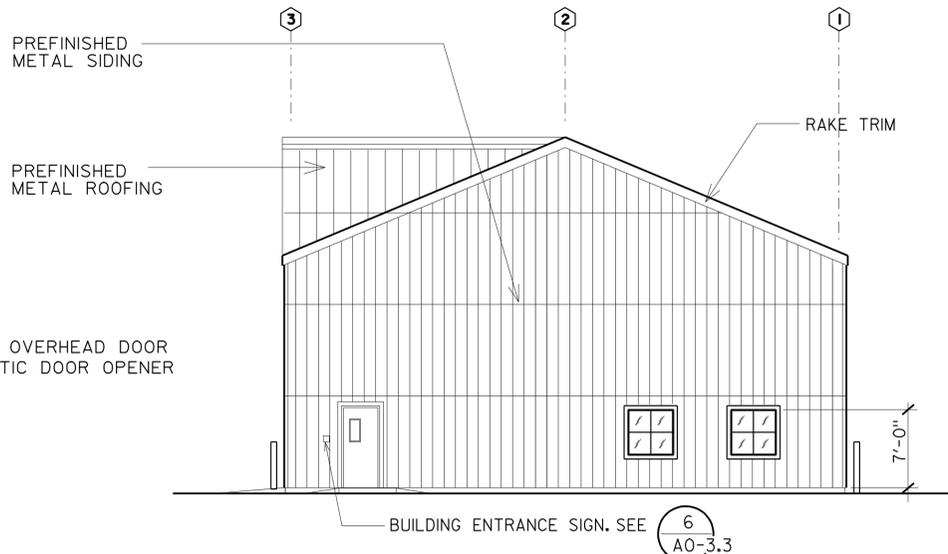
12-2-08 DATE  
 LICENSED ARCHITECT  
 Goffredo Riveccio  
 No. C-17914  
 Exp. 8-31-2009  
 STATE OF CALIFORNIA

6-22-09  
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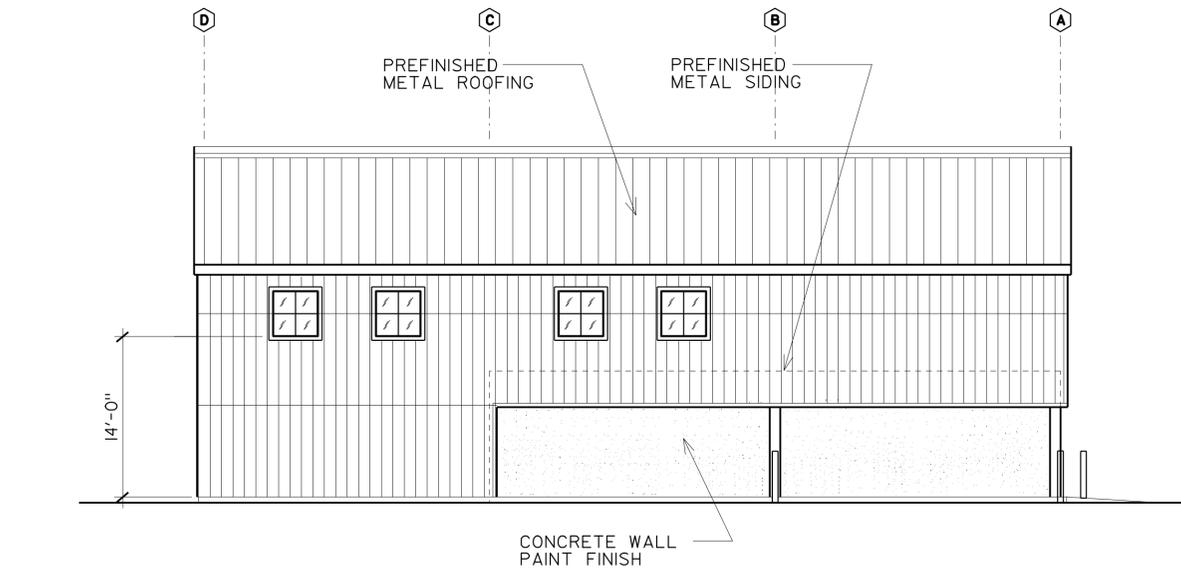
**1 WEST ELEVATION**

1/8" = 1'-0"



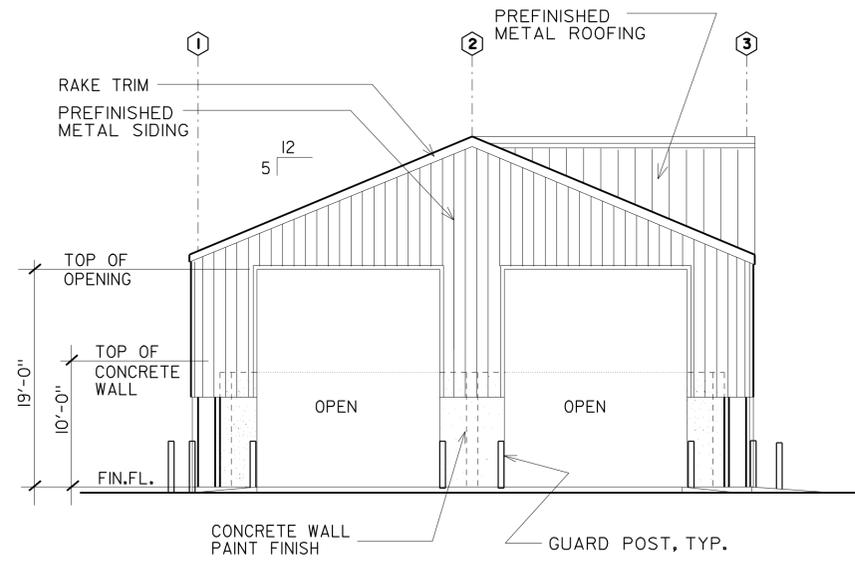
**2 SOUTH ELEVATION**

1/8" = 1'-0"



**3 EAST ELEVATION**

1/8" = 1'-0"



**4 NORTH ELEVATION**

1/8" = 1'-0"

ACCESSIBILITY DESIGN APPROVAL STAMP  
 DOT / DES / OTA  
**09-334201**  
 DISTRICT - EA  
 Reviewed by: [Signature]  
 Date: 11/10/08

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 Reviewed by: Pam Emick  
 PAM EMICK  
 Approval date: 12-1-08

COLOR & PAINT SCHEDULE		
ITEM	COATING SYSTEM	COLOR
METAL ROOFING	PRE-FINISHED BY MFR	24 GA SWL-18 BY METECNO MORIN EVERGREEN COLOR
METAL SIDING	PRE-FINISHED BY MFR	24 GA BR7-35 WALL PANEL BY MORIN CORPORATION . SURREY BEIGE COLOR
STRUCTURAL STEEL INTERIOR	5	FROST 55YY 80/072 BY ICI
STRUCTURAL STEEL EXTERIOR	5	POROUS STONE DE6220 LRV 57, DUNN EDWARDS
MISC METALS	5	POROUS STONE DE6220 LRV 57, DUNN EDWARDS
INTERIOR CONCRETE WALLS	2	FROST 55YY 80/072 BY ICI
EXTERIOR CONCRETE WALLS	2	POROUS STONE DE6220 LRV 57, DUNN EDWARDS
SECTIONAL DOORS	5	DE 6128 SAND DUNE LRV 62 BY DUNN-EDWARDS
METAL DOORS AND FRAMES	5	ARLINGTON GREEN BY ICI
ALUMINUM FRAME WINDOWS AND LOUVER	1	ARLINGTON GREEN BY ICI
GYPSUM BOARD	4	FROST 55YY 80/072 BY ICI
FIBERGLASS REINFORCED PANELS	PRE-FINISHED BY MFR	SANDSTONE TEXTURE 809-FAWN BROWN BY VARIETEX
INTERIOR PLYWOOD AND WOOD TRIMS	6	DE6220 POROUS STONE LRV57 BY DUNN EDWARDS
GUARD POSTS	5	DE5340 BANANA PEEL LRV 76 BY DUNN EDWARDS

MANUFACTURERS' DESIGNATIONS ARE SHOWN ONLY AS REFERENCE AND EXAMPLES OF QUALITY, COLOR AND FINISH. EQUAL MANUFACTURER'S PRODUCTS WHICH MATCH THESE PRODUCTS MAY BE SUBMITTED FOR REVIEW AND APPROVAL.

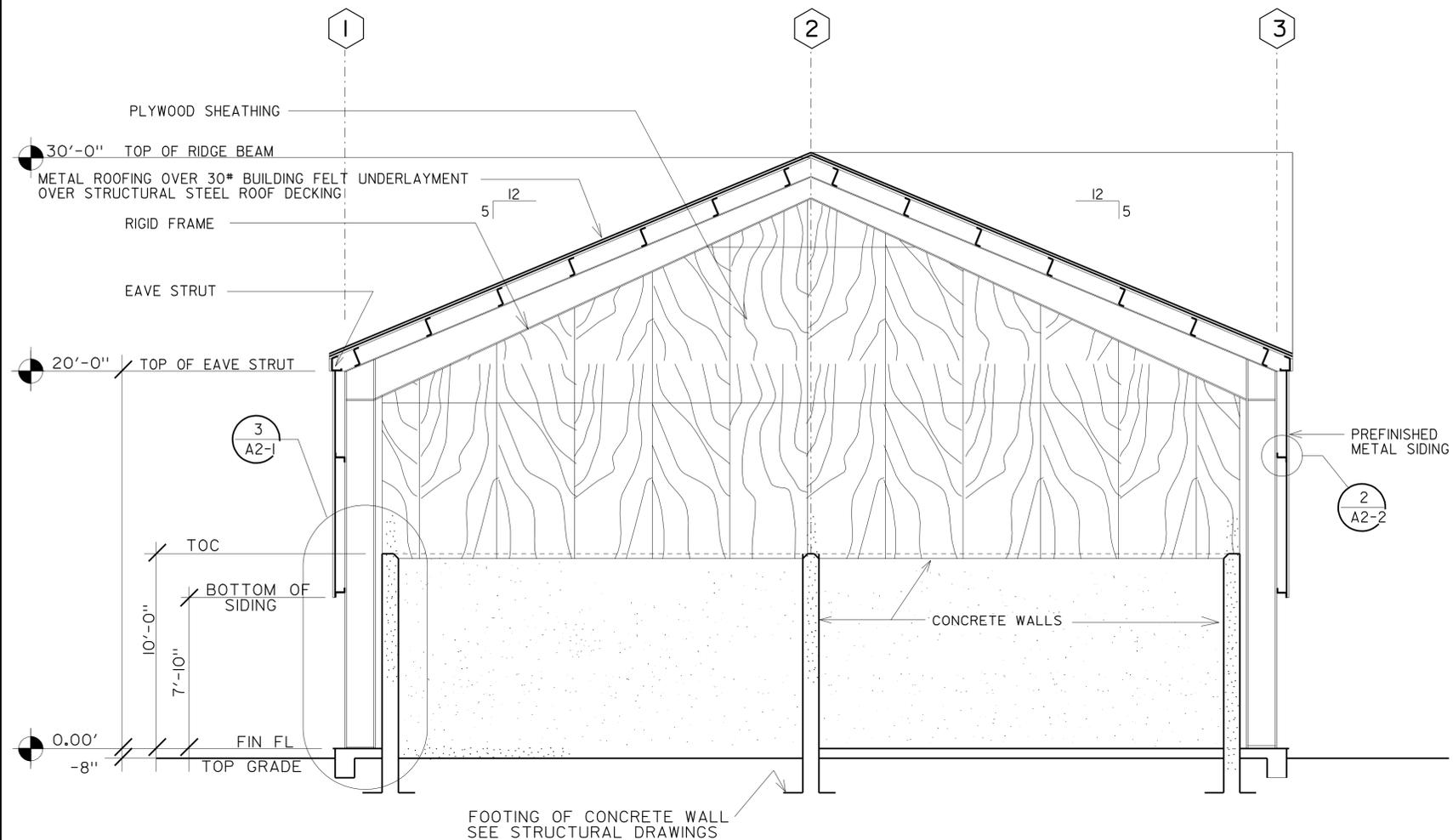
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	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			BUILDING ELEVATIONS & COLOR SCHEDULE	SHEET OF
	CU 09603 EA 334201	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF	OF

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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	5704		14	52

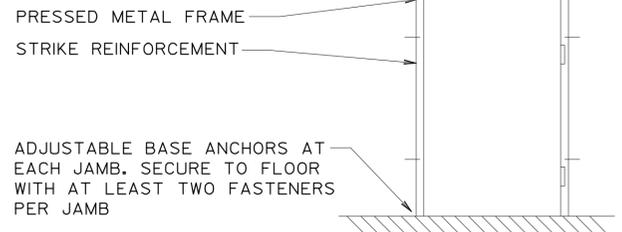
12-2-08  
 LICENSED ARCHITECT DATE  
 Goffredo Rivieccio  
 No. C-17914  
 Exp. 8-31-2009  
 STATE OF CALIFORNIA

6-22-09  
 PLANS APPROVAL DATE  
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**1 SECTION**  
SCALE 1/4" = 1'-0"

JAMB ANCHOR, 4 PER JAMB. LOCATE AN ANCHOR ABOVE EACH HINGE REINFORCEMENT AND BELOW THE TOP HINGE REINFORCEMENT. ANCHORS ON STRIKE SIDE TO OCCUR DIRECTLY OPPOSITE THOSE ON HINGE SIDE. FOR FRAMES OVER 4'-0" WIDE, INSTALL TWO ANCHORS AT HEAD.

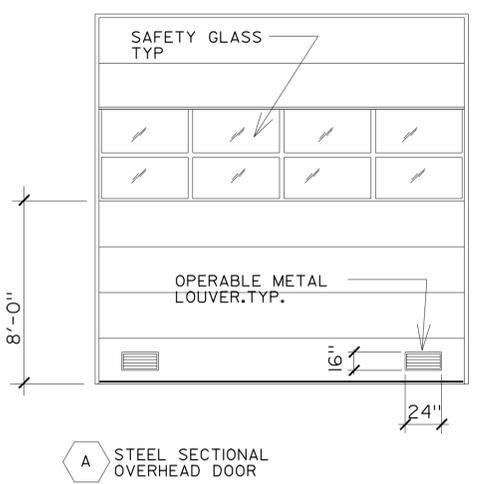


**4 TYPICAL PMF ANCHORAGE**  
NOT TO SCALE

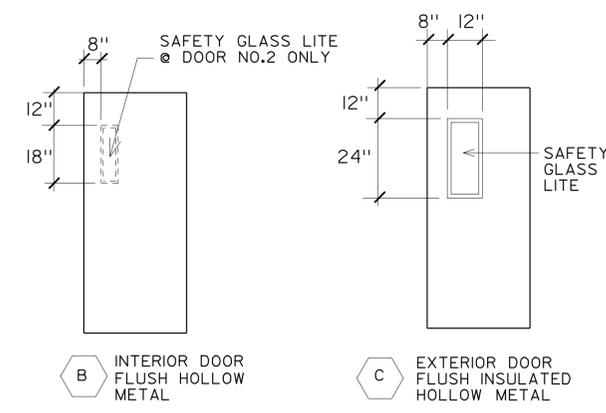
ACCESSIBILITY DESIGN APPROVAL STAMP  
 DOT / DES / OTA  
**09-334201**  
 DISTRICT - EA  
 Reviewed by: *[Signature]*  
 Date: 11/10/08

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: Pam Emick  
 PAM EMICK  
 Approval date: 12-1-08

ROOM FINISH SCHEDULE												
ROOM NAME	FLOOR	WALLS					CEILING		FINISHES			
		SMOOTH CONCRETE	3/4" PLYWOOD	VINYL FACED BATT FIBERGLASS INSUL.	EXPOSED CONCRETE	F R P	5/8" TYPE X GYP BD	6" RUBBER BASE	VINYL FACED BATT FIBERGLASS INSUL.	1/2" TYPE X GYP BD	HEIGHT	① NO FINISH WORK REQUIRED ② PAINT FINISH ③ CONCRETE HARDENER AND GREASE/OIL SEALER ④ CLEAN AND WAX ⑤ TAPE, TEXTURE & PAINT
SNOW BLOWER BAY	③		②	①	②				①		VARIES	
TOOL TRUCK BAY	③			①	②		⑤	④	①		VARIES	
RESTROOM	③					④		④	⑤		9'-0"	RESTROOM SIGN ③A A0-3.3
STORAGE	③						⑤	④	⑤		9'-0"	ROOM IDENTIFICATION SIGN ① A0-3.3
SALT STORAGE	③		②								VARIES	
SAND STORAGE	③		②								VARIES	



**2 DOOR TYPES**  
NTS



**3 WINDOW & LOUVER TYPES**  
NTS

DOOR SCHEDULE									
NO.	WIDTH x HEIGHT	THICK	MATERIAL	FINISH	FRAME	HRDWR GROUP	TYPE	NOTES	
1	3'-0" x 7'-0"	1 3/4"	HOLLOW METAL	PAINT	PMF	2	B	UNISEX RESTROOM IDENTIFICATION SYMBOL ④A A0-3.3	
2	3'-0" x 7'-0"	1 3/4"	HOLLOW METAL	PAINT	PMF	3	B	SAFETY GLASS LITE	
3	12'-0" x 16'-0"	—	STEEL	—	—	—	A	INSULATED WITH 2 SAFETY GLASS SECTIONS	
4	16'-0" x 16'-0"	—	STEEL	—	—	—	A	INSULATED WITH 2 SAFETY GLASS SECTIONS	
5	3'-0" x 7'-0"	1 3/4"	HOLLOW METAL	PAINT	PMF	1	C	SAFETY GLASS LITE ACCESSIBLE BUILDING ENTRANCE SIGN ⑥ A0-3.3 SELF LUMINOUS EXIT SIGN ④ AI-4	

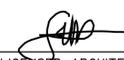
NOTE 1. SEE DETAIL 5/ A0-3.3 AND ROOM FINISH SCHEDULE FOR SIGNS LOCATIONS AT DOORS AND ROOMS  
 NOTE 2. SEE DETAIL 4 ON THIS SHEET FOR TYPICAL PRESSED METAL FRAME (PMF) ANCHORAGE TO WALL STUDS

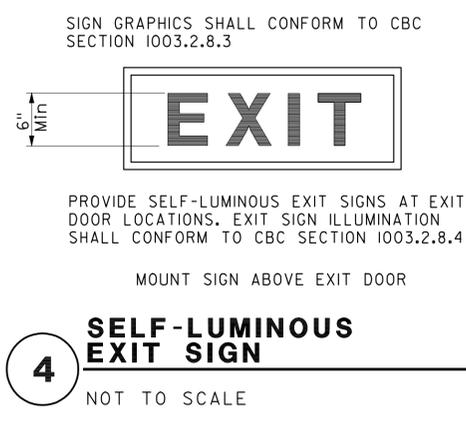
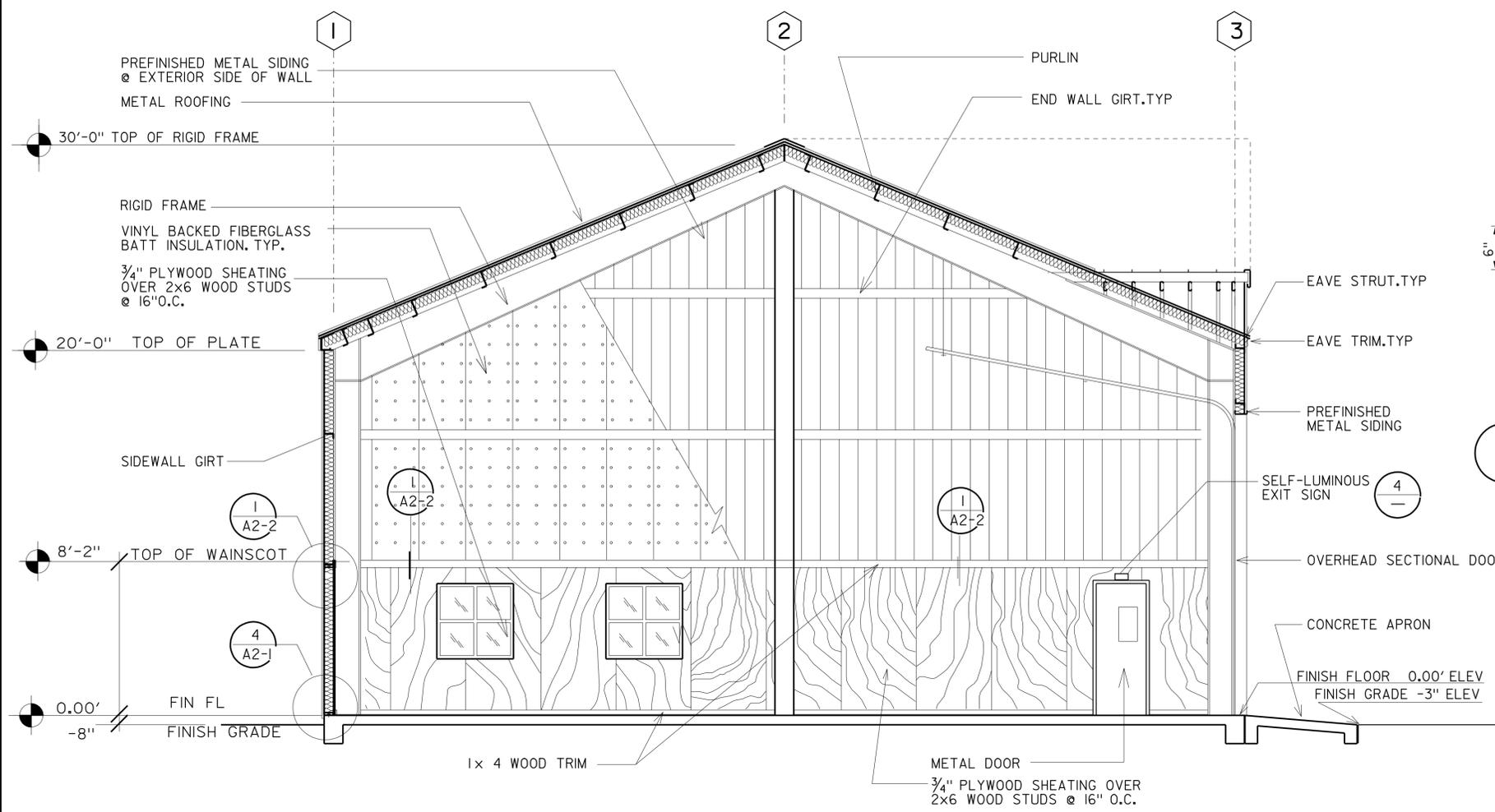
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DETAILS BY GOFFREDO RIVIECCIO	CHECKED WARREN LAI			POST MILE		
QUANTITIES BY	CHECKED					

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3  
 CU 09603 EA 334201  
 DISREGARD PRINTS BEARING EARLIER REVISION DATES  
 REVISION DATES (PRELIMINARY STAGE ONLY): - -01

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	5704		15	52

 LICENSED ARCHITECT		12-2-08 DATE
6-22-09 PLANS APPROVAL DATE		
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6" MIN

6-22-09

11/10/08

12-1-08

12-1-08

12-1-08

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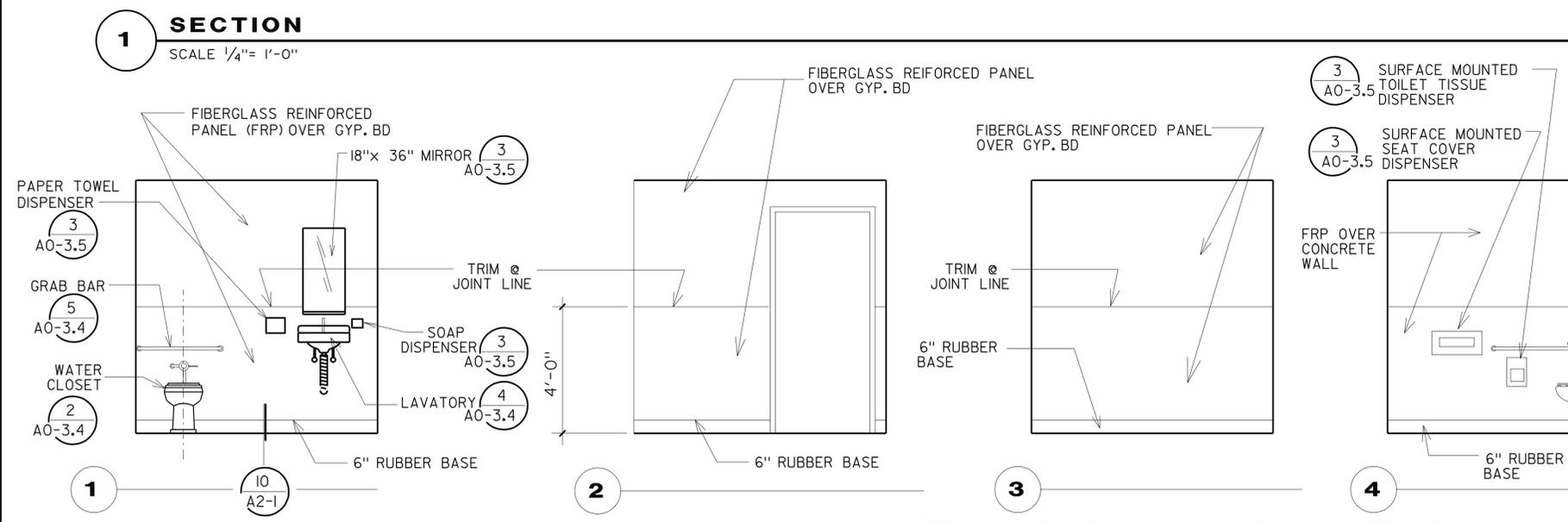
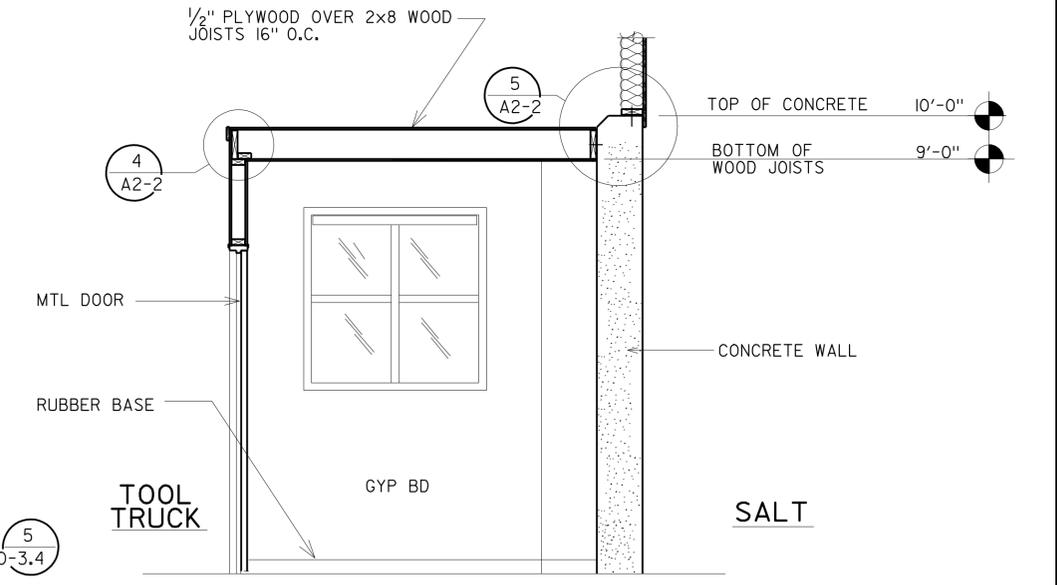
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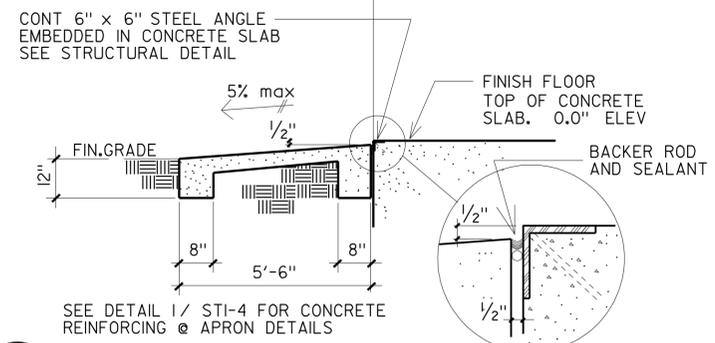


NOTE: BOND FIBERGLASS REINFORCED PANELS OVER GYP. BD AND CONCRETE SURFACES WITH LATEX WATERPROOF CONSTRUCTION ADHESIVE PER MANUFACTURER'S RECOMMENDATION

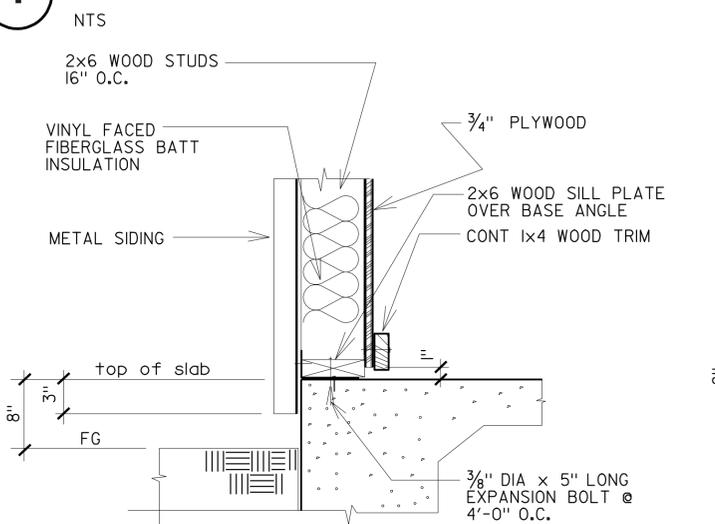
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	DETAILS	BY GOFFREDO RIVIECCIO	CHECKED WARREN LAI		ARCHITECTURAL AND STRUCTURAL DESIGN	47M5704		15 OF 52
	QUANTITIES	BY	CHECKED		POST MILE			
				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 09603 EA 334201	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF

10-FEB-2010 06:55

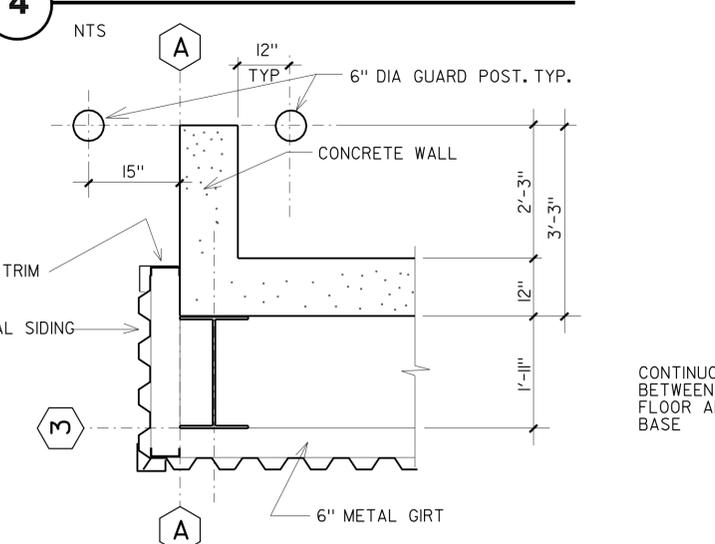
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09	Mno	5704		16	52
			12-2-08		
			6-22-09	PLANS APPROVAL DATE	
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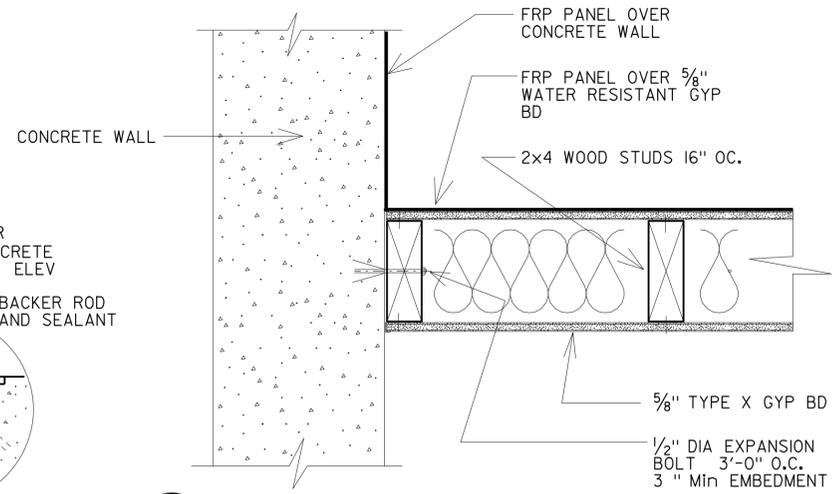
**1 CONCRETE APRON**  
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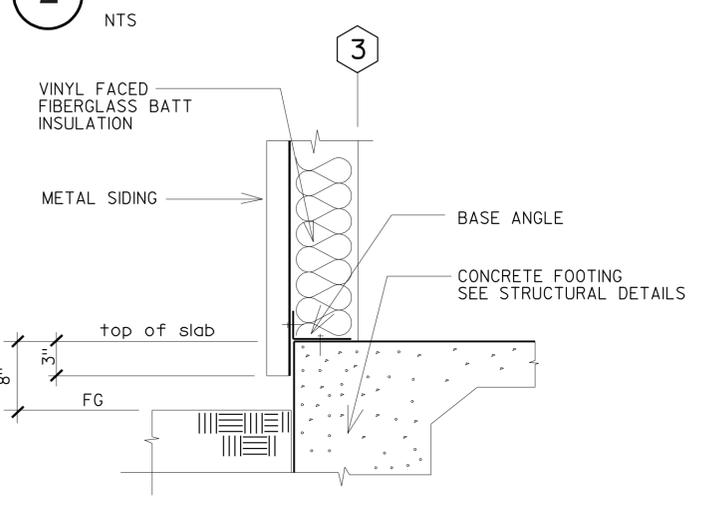
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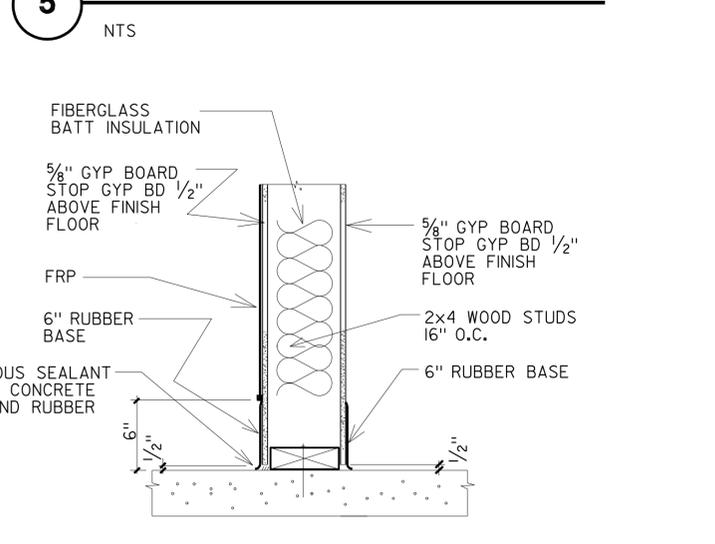
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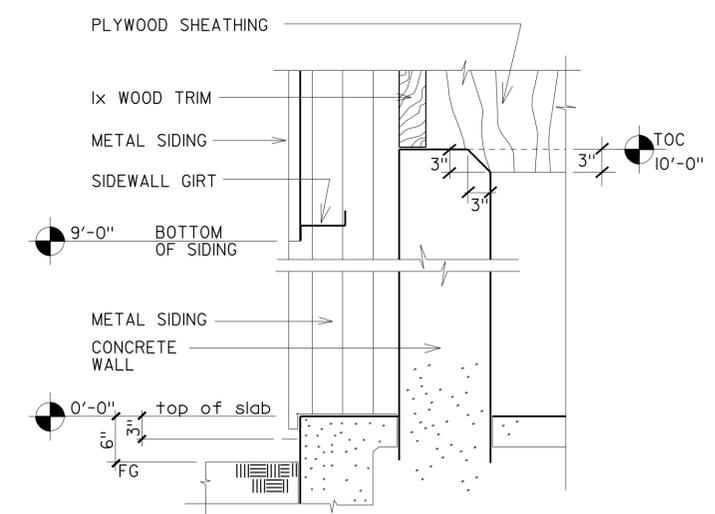
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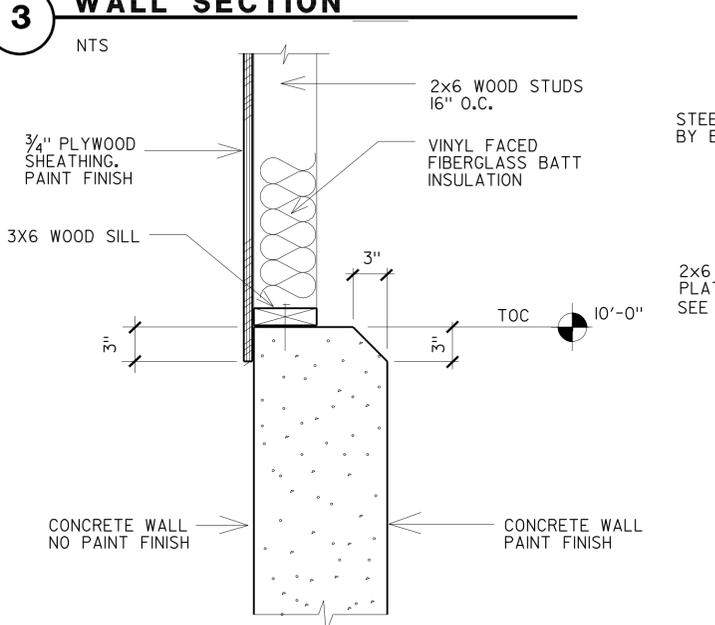
**5 WALL DETAIL**  
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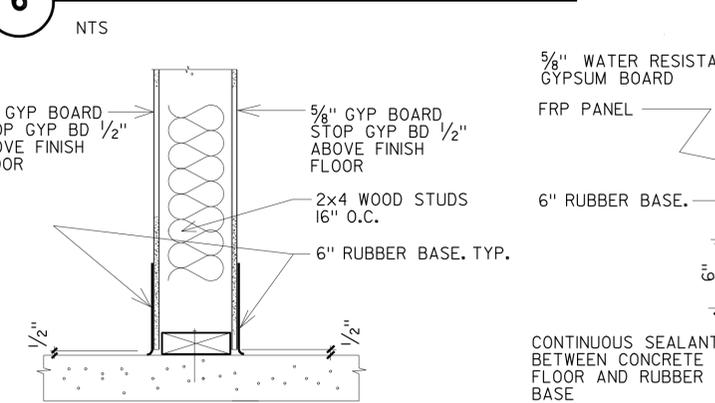
**8 WALL DETAIL**  
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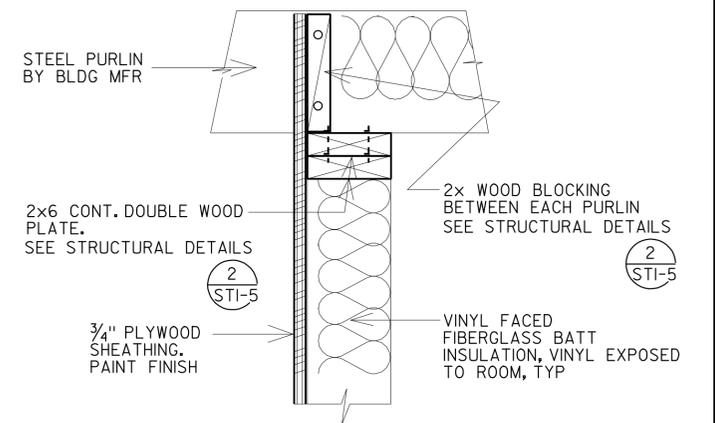
**3 WALL SECTION**  
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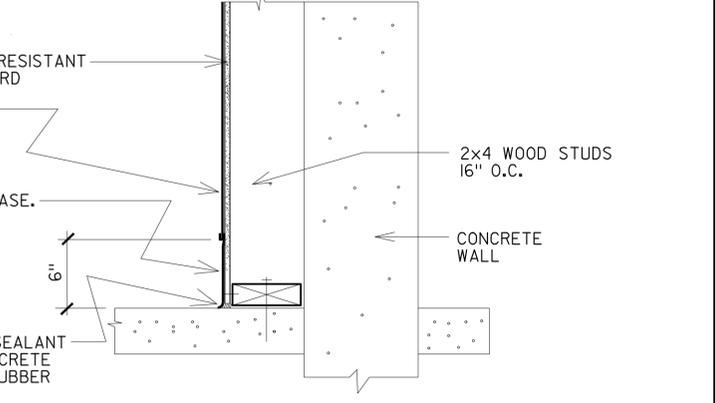
**6 WALL DETAIL**  
NTS



**9 WALL DETAIL**  
NTS

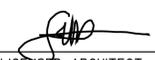


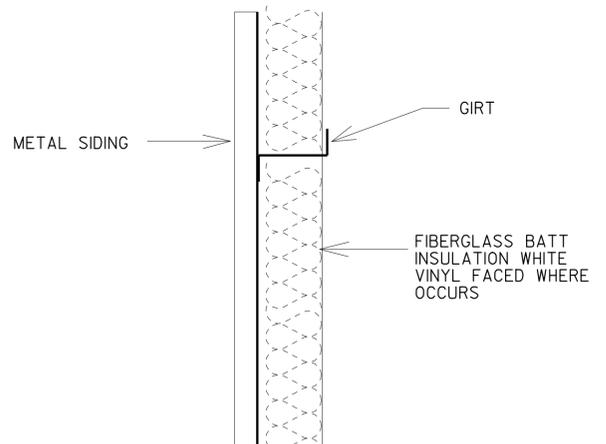
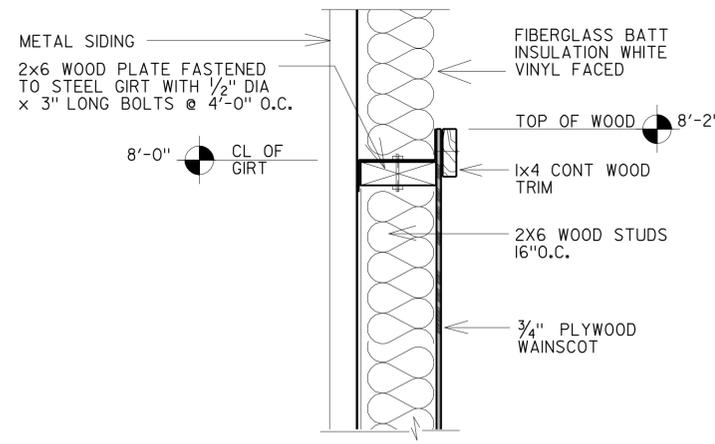
**11 WALL DETAIL @ ROOF**  
NTS



**10 WALL DETAIL**  
NTS

a2_01.dgn DS OSD Imperial Rev. 11/98 10-FEB-2010 06:56	DESIGN	BY GOFFREDO RIVIECCIO	CHECKED WARREN LAI	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO.	CINDER/SALT SHED CONWAY SUMMIT MAINTENANCE STATION DETAILS	SHEET
	DETAILS	BY GOFFREDO RIVIECCIO	CHECKED WARREN LAI			47M5704		A2-1
	QUANTITIES	BY	CHECKED			POST MILE		
				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 09603 EA 334201	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF

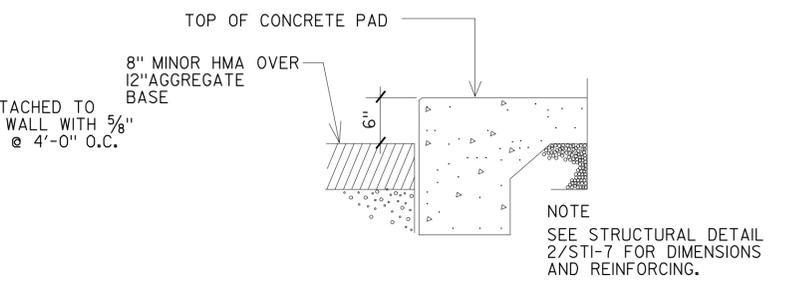
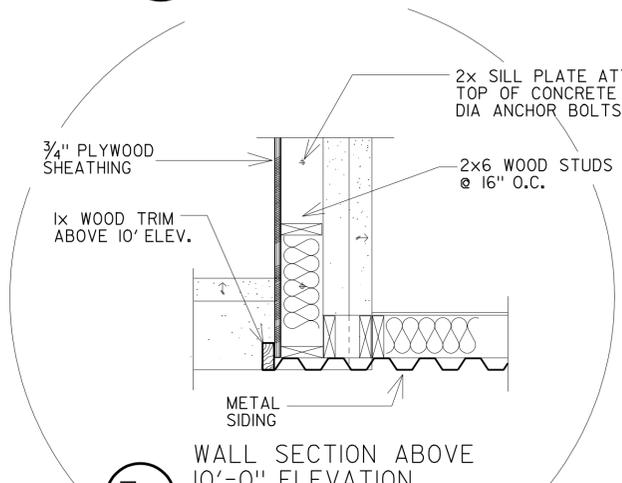
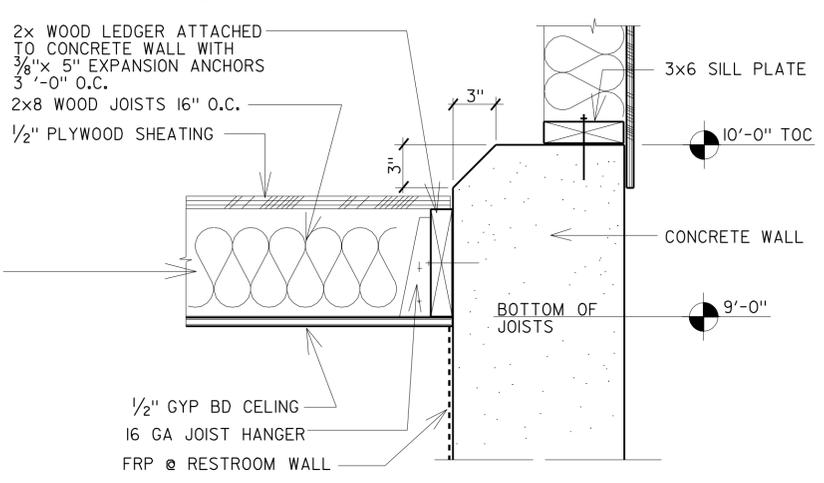
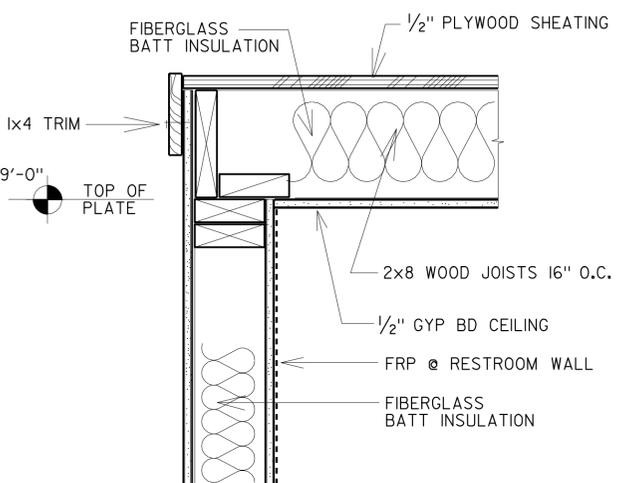
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09	Mno	5704		17	52
 LICENSED ARCHITECT			12-2-08	DATE	
6-22-09 PLANS APPROVAL DATE			 Goffredo Riveccio No. C-17914 Exp. 8-31-2009 STATE OF CALIFORNIA		
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**1 WALL DETAIL**

**2 WALL DETAIL**

**3 NOT USED - OMITTED**



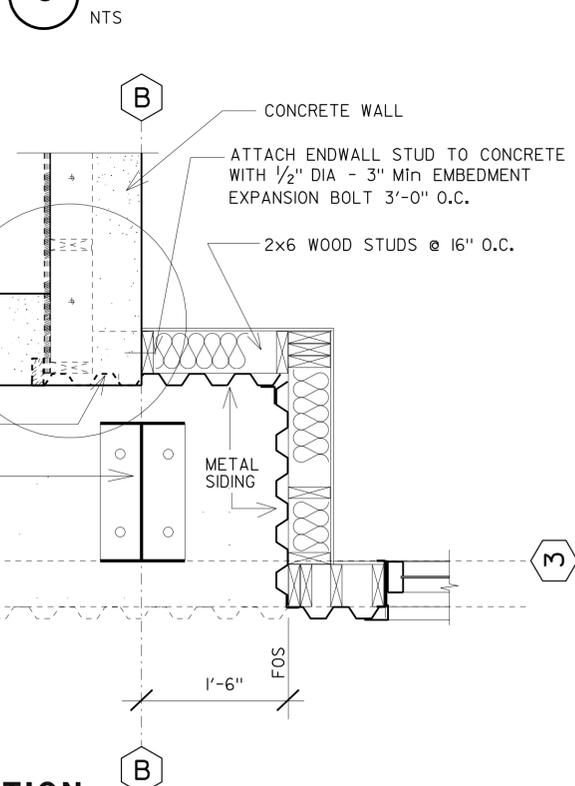
**8 PAD FOOTING DETAIL**

**4 WALL / CEILING DETAIL**

**5 WALL / CEILING DETAIL**

**7a WALL SECTION ABOVE 10'-0" ELEVATION**

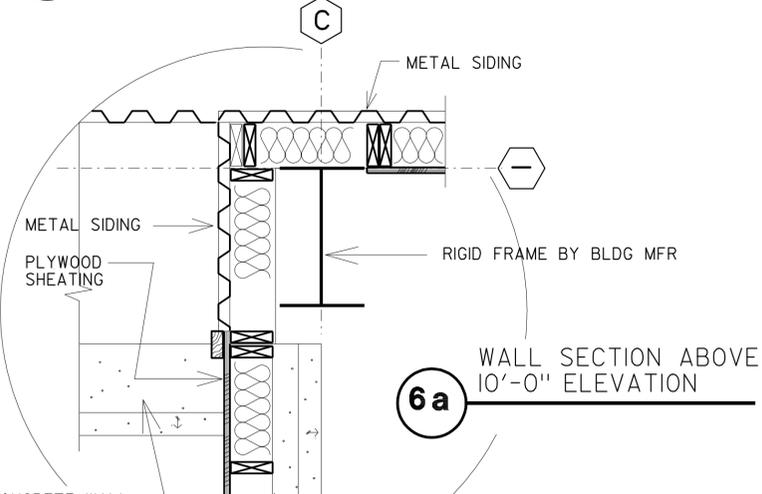
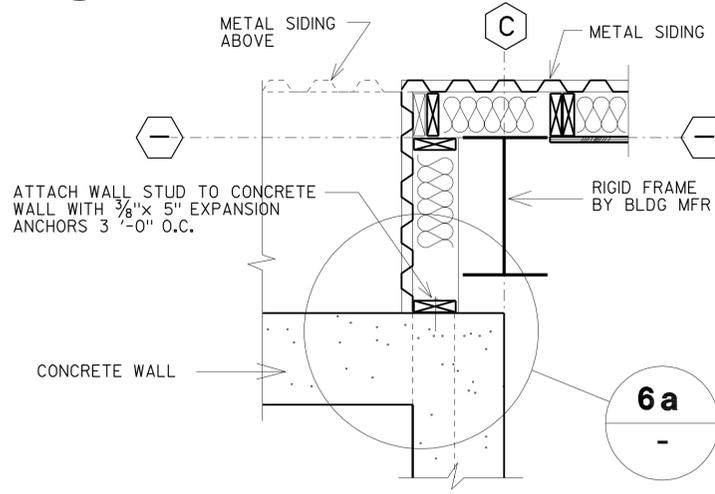
**7a**



**6 WALL SECTION BELOW 10'-0" ELEVATION**

**5 WALL / CEILING DETAIL**

**7 WALL SECTION BELOW 10'-0" ELEVATION**



**6 WALL SECTION BELOW 10'-0" ELEVATION**

**5 WALL / CEILING DETAIL**

**7 WALL SECTION BELOW 10'-0" ELEVATION**

**6 WALL SECTION BELOW 10'-0" ELEVATION**

**5 WALL / CEILING DETAIL**

**7 WALL SECTION BELOW 10'-0" ELEVATION**

DESIGN	BY GOFFREDO RIVIECCIO	CHECKED WARREN LAI	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 47M5704	<b>CINDER/SALT SHED          CONWAY SUMMIT MAINTENANCE STATION</b> DETAILS	SHEET A2-2
DETAILS	BY GOFFREDO RIVIECCIO	CHECKED WARREN LAI		ARCHITECTURAL AND STRUCTURAL DESIGN	POST MILE		
QUANTITIES	BY	CHECKED					

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	5704		18	52

11-21-08  
DATE

6-22-09  
PLANS APPROVAL DATE

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**ABBREVIATIONS**

AA	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	Powder Driven Fastener
DIP	Ductile Iron Pipe	Plwd	Plywood
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	Relnf	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		Structural Backfill
	Length Shearwall Schedule Symbol Reference		Structural Excavation
	Glue Laminated Member Section		Original Ground
	North Arrow		Limits of Structural Backfill (shown on plan view)
	Partial Section Cut		Free Draining Granular Material
	Full Section Cut		Bottom of Footing
	Revision Callout		Elevation or Working Point
	Grid Line Indicator		Existing Features
	Center Line		Holdown, Typ (Manufacturers are those noted in the order shown.)
	Station Line		Frame Connector (Manufacturers are those noted in the order shown.)
	Steel Plate		Detail Number or Note Number Additional Reference (if required) Sheet Number
	Diameter		
	Square		

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

STANDARD DRAWING				APPROVED		BRIDGE NO.		CINDER / SALT SHED		SHEET			
FILE NO. XS-25-0	DESIGN BY <i>Sean Samal</i>	CHECKED <i>George E. Rowe</i>	APPROVED <i>R.E. Travis</i>	STATE OF CALIFORNIA		DIVISION OF ENGINEERING SERVICES		47M5704		CONWAY SUMMIT MAINTENANCE STATION		ST-1	
DRAWING DATE 1-04	DETAILS BY <i>George E. Rowe</i>	CHECKED <i>Sean Samal</i>	DESIGN SUPERVISOR	DEPARTMENT OF TRANSPORTATION		ARCHITECTURAL AND STRUCTURAL DESIGN		POST MILE		LEGEND		OF	
DOES SD Imperial Rev. 9/02				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		CU 09603 EA 334201		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF	

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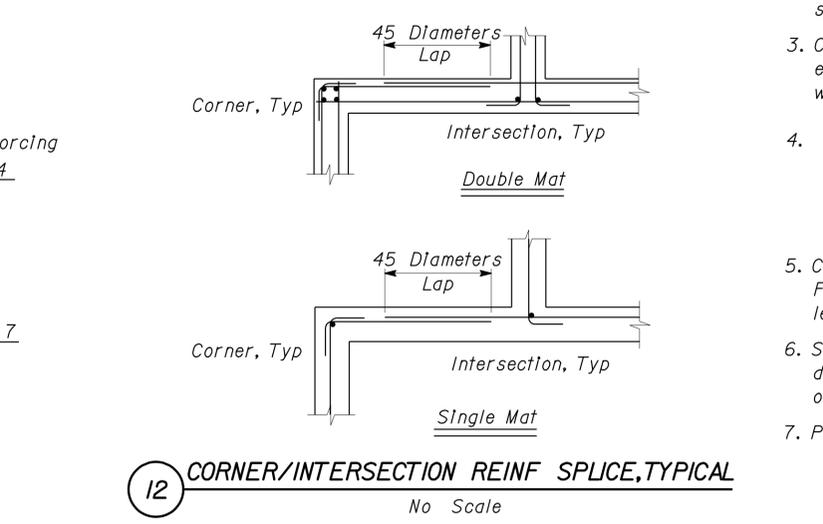
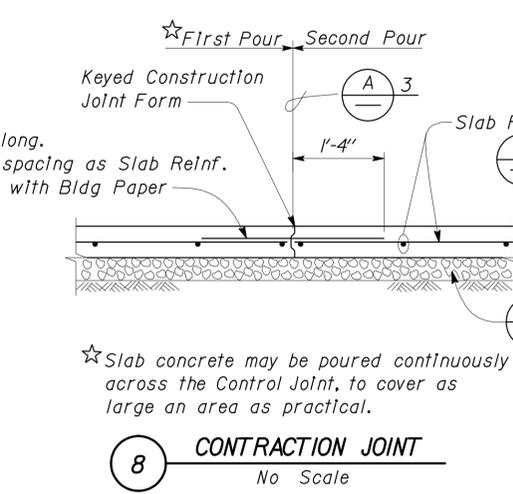
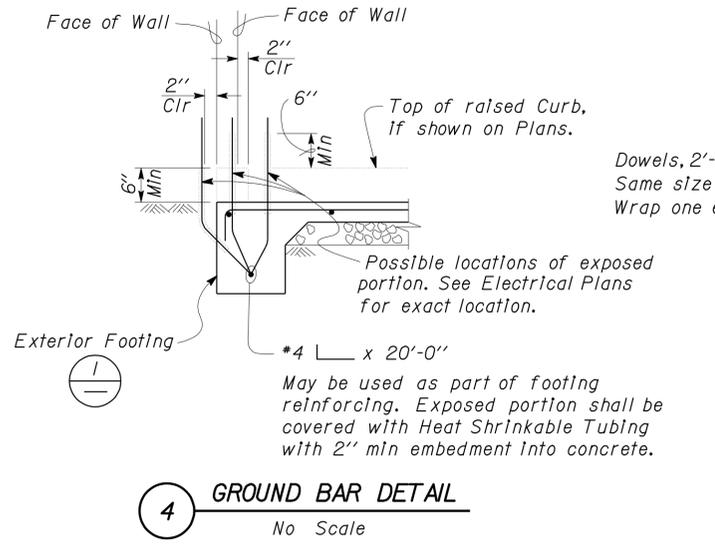
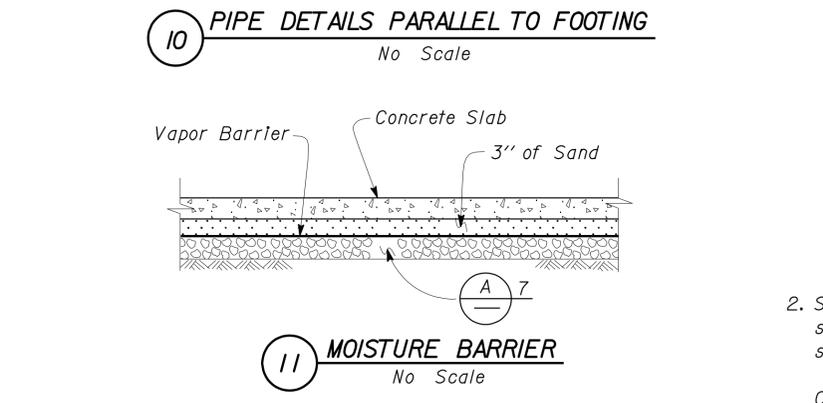
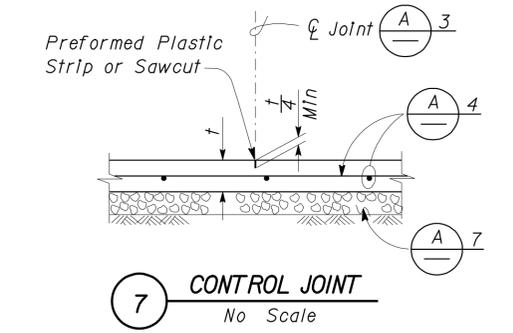
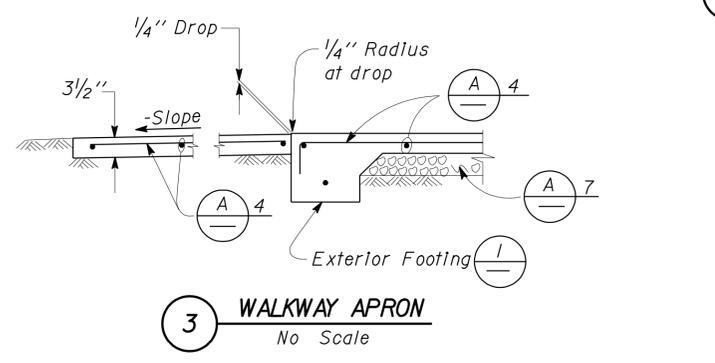
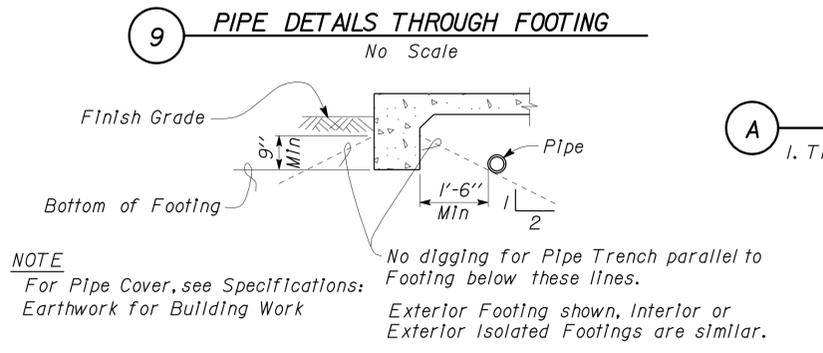
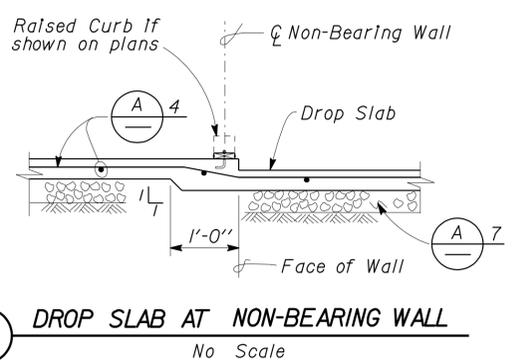
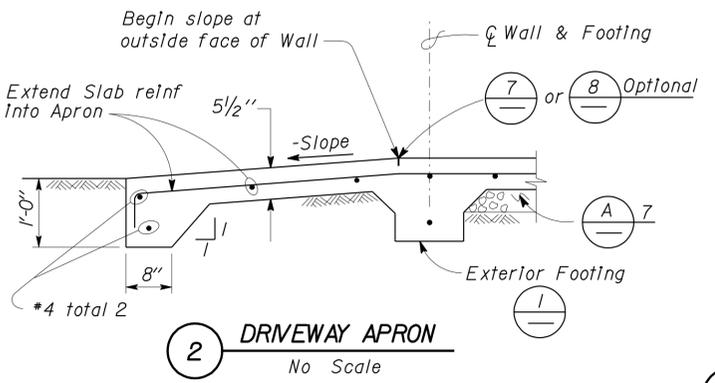
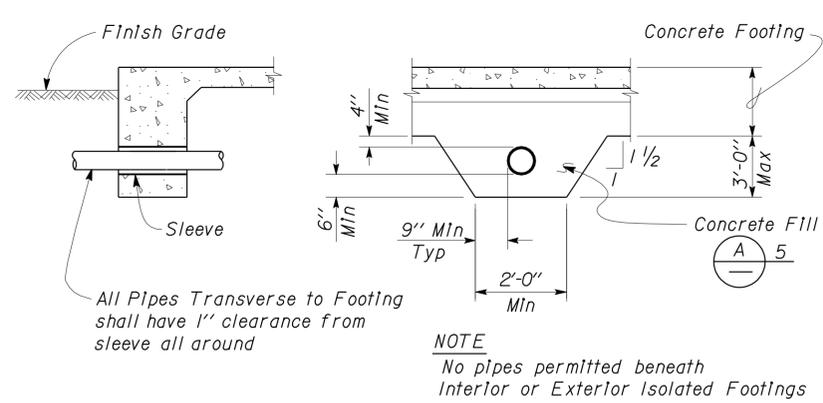
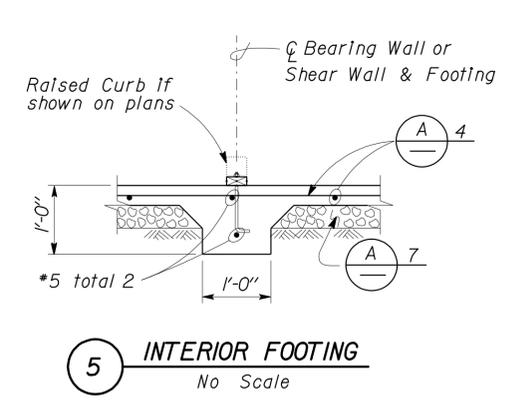
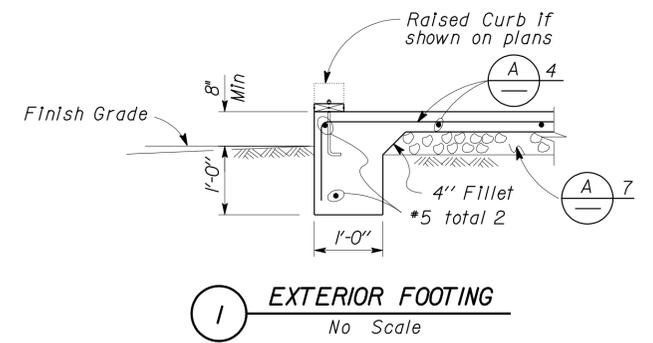
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	5704		19	52

REGISTERED CIVIL ENGINEER  
 No. 67416  
 Exp. 12-31-10  
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- CONCRETE NOTES**
1. 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"        |
2. Splices in continuous reinforcement as in Walls, Wall Footings, etc. #8 or smaller shall have a lap of 45 diameters and the splices in adjacent bars shall not be less than 5'-0" apart.
- Continuous Bars in spandrels, Wall Beams, etc. shall lap Top Bars at center of span and Bottom Bars at supports.
3. Contraction Joints and Control Joints shall divide slab into areas not exceeding 25 square yards without reentrant corners and with length to width ratios not exceeding 1.5 to 1. Joint spacing shall not exceed 15'-0".
4. Slab Thickness (t) Reinforcement
- |        |   |
|--------|---|
| 3 1/2" | *3 @ 18 Each way, place in center of Slab |
| 5 1/2" | *4 @ 18 Each way, place in center of Slab |
| 7 1/4" | *4 @ 12 Each way, place in center of Slab |
5. Concrete fill is to be placed before Footing is poured. Make the same width as the Footing and the full width of the Pipe trench. Concrete fill not required for pipes less than 2" diameter for pipes more than 3'-0" below bottom of footing.
6. See Mechanical and Architectural Plans for size and locations of pipe, vents, ducts and other similar openings. See Electrical Plans for conduits and outlet boxes in floors, walls, etc.
7. Place 4" of free draining granular material under slabs.

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

FILE NO. XS-25-1	DESIGN BY <i>Sean Samal</i>	CHECKED <i>Steve O'Connell</i>	APPROVED <i>R.E. Travis</i>	STATE OF CALIFORNIA	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 47M5704	CINDER / SALT SHED CONWAY SUMMIT MAINTENANCE STATION	SHEET
DRAWING DATE 1-04	DETAILS BY <i>Peter F. von Savoy</i>	CHECKED <i>Steve O'Connell</i>	DESIGN SUPERVISOR	DEPARTMENT OF TRANSPORTATION	ARCHITECTURAL AND STRUCTURAL DESIGN	POST MILE		CONCRETE STANDARD
DOES SD Imperial Rev. 9/02	SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 09603 EA 334201	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF

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 WWSA, WCLIB or other approved lumber inspection agency.
- Structural plywood sheathing shall be APA grade stamped plywood conforming to Voluntary Product Standard PSI, Grade C-D, Exposure 1. Thickness and span rating shall be as shown on the plans.
- Wood grades (unless otherwise noted):
  - For horizontal members:
 

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

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

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

B

MINIMUM NAILING SCHEDULE

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

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

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09	Mno	5704		20	52

*Dai Lu* 11-21-08  
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6-22-09  
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C

MECHANICAL FASTENER NOTES

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

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

Place under Bolt Heads & Nuts bearing on Wood

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

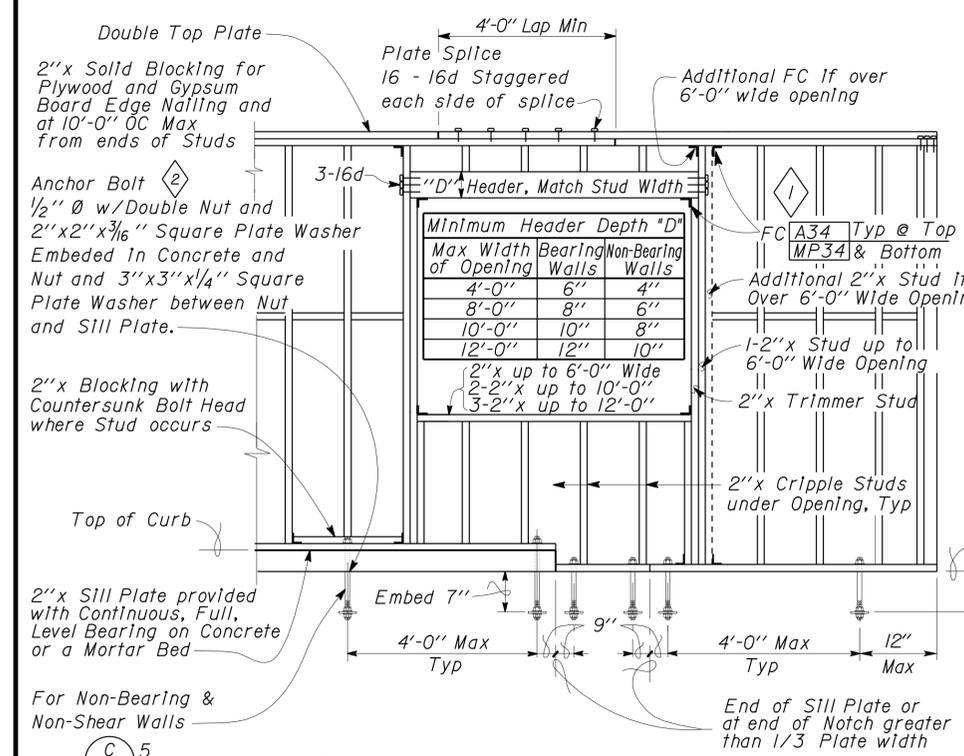
DOES SD Imperial Rev. 9/02		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION			DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN		BRIDGE NO. 47M5704 POST MILE	CINDER / SALT SHED CONWAY SUMMIT MAINTENANCE STATION WOOD FRAMING GENERIC NOTES			SHEET OF ST-3A
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		CU 09603 EA 334201		DISREGARD PRINTS BEARING EARLIER REVISION DATES			REVISION DATES (PRELIMINARY STAGE ONLY) 1-16-04 11-14-05 11-19-08			SHEET OF	

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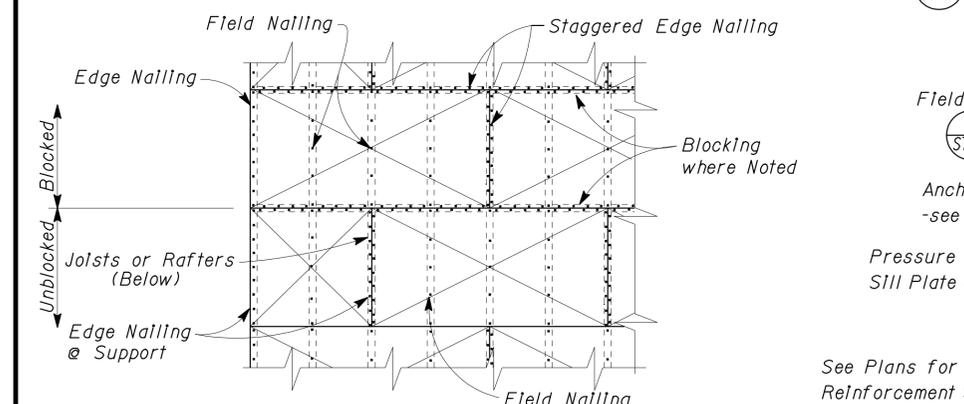
11-21-08  
 DATE  
 REGISTERED CIVIL ENGINEER  
**Dai Lu**  
 No. 67416  
 Exp. 12-31-10  
 CIVIL  
 STATE OF CALIFORNIA

6-22-09  
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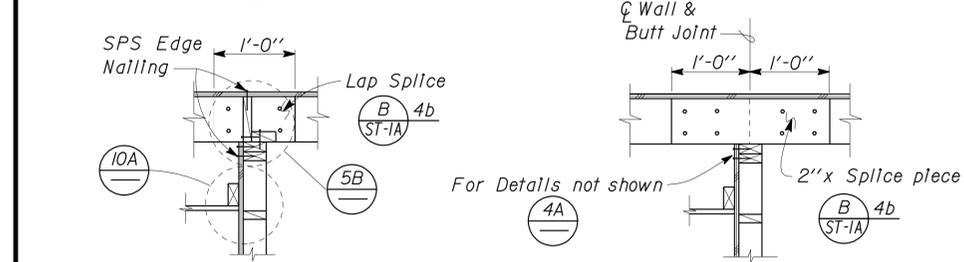
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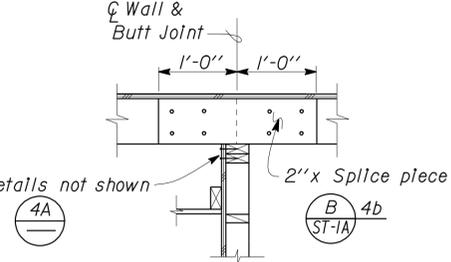
**1 TYPICAL WALL AND OPENING FRAMING**  
No Scale



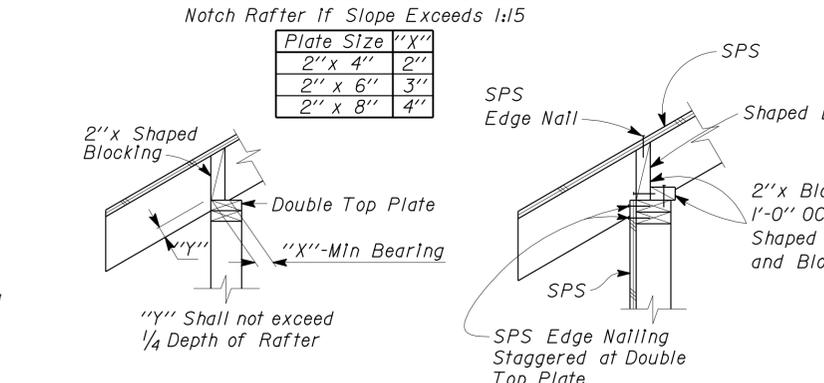
**2 STRUCTURAL PLYWOOD LAYOUT**  
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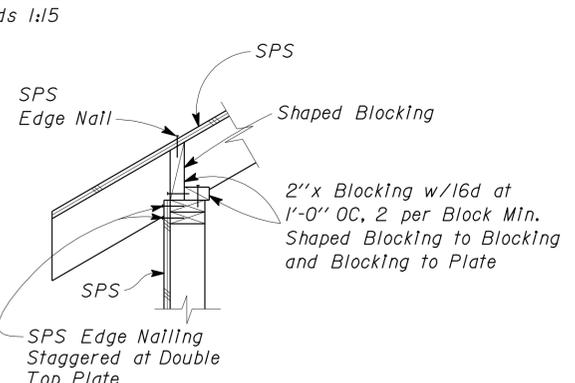
**4A LAP SPLICE ACROSS JOISTS**



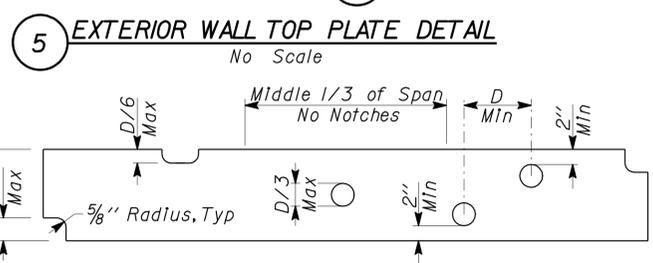
**4B BUTT SPLICE ACROSS JOISTS**



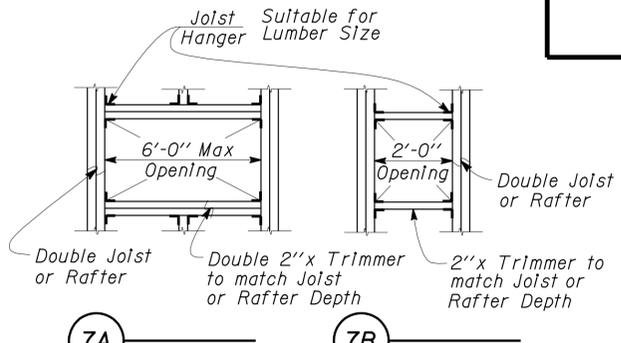
**5A RAFTER BEARING**



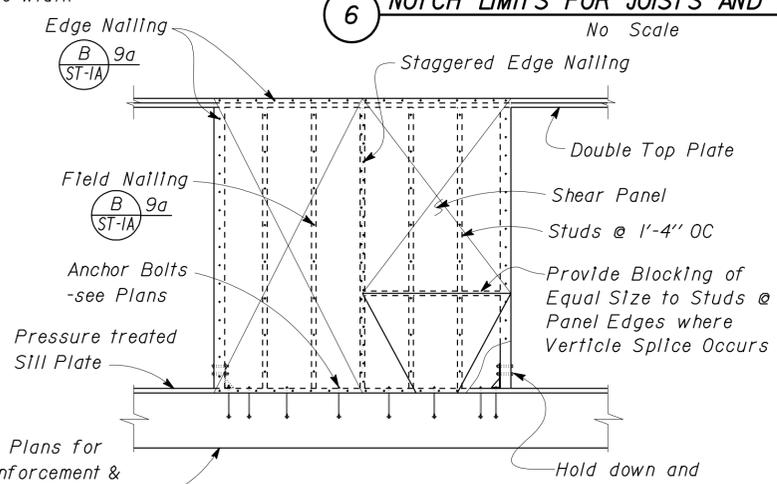
**5B SHEAR TRANSFER**



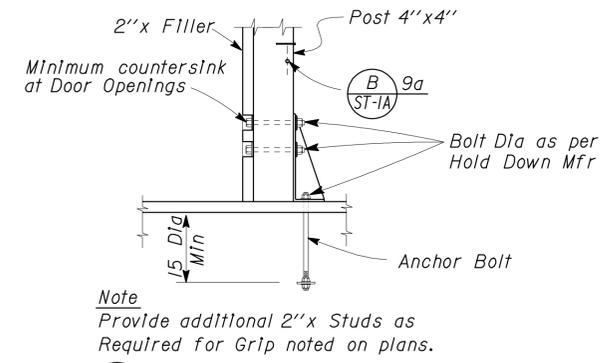
**5 EXTERIOR WALL TOP PLATE DETAIL**  
No Scale



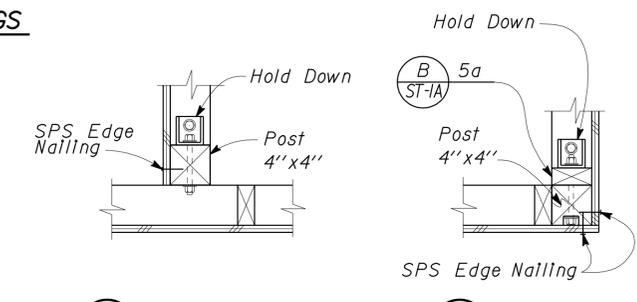
**7 FRAMING AT OPENINGS**  
No Scale



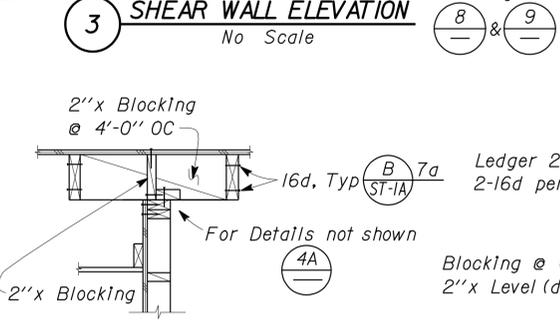
**3 SHEAR WALL ELEVATION**  
No Scale



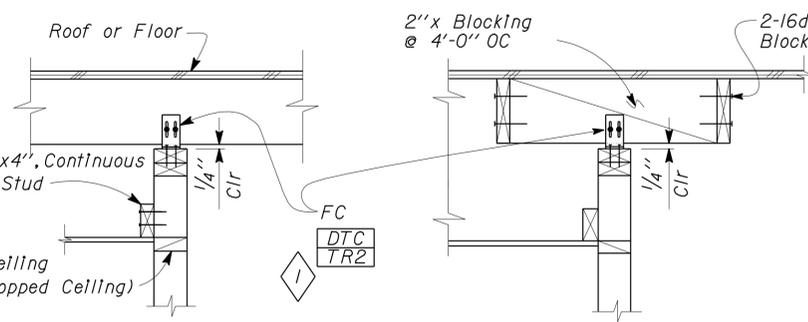
**8 INTERIOR HOLD DOWN**  
No Scale



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

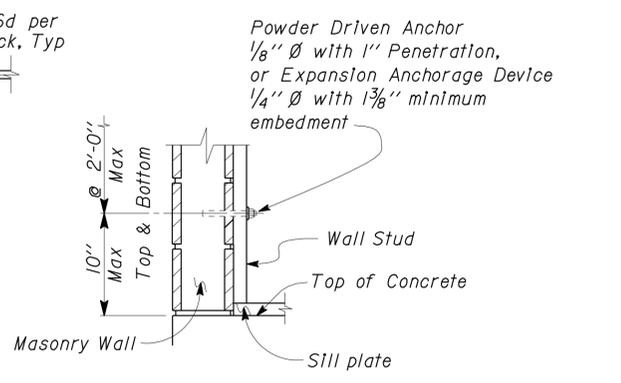


**4C JOISTS PARALLEL TO WALL**



**10A ACROSS JOISTS**  
**10B PARALLEL TO JOISTS**

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



**11 STUD ANCHORAGE TO MASONRY**  
No Scale

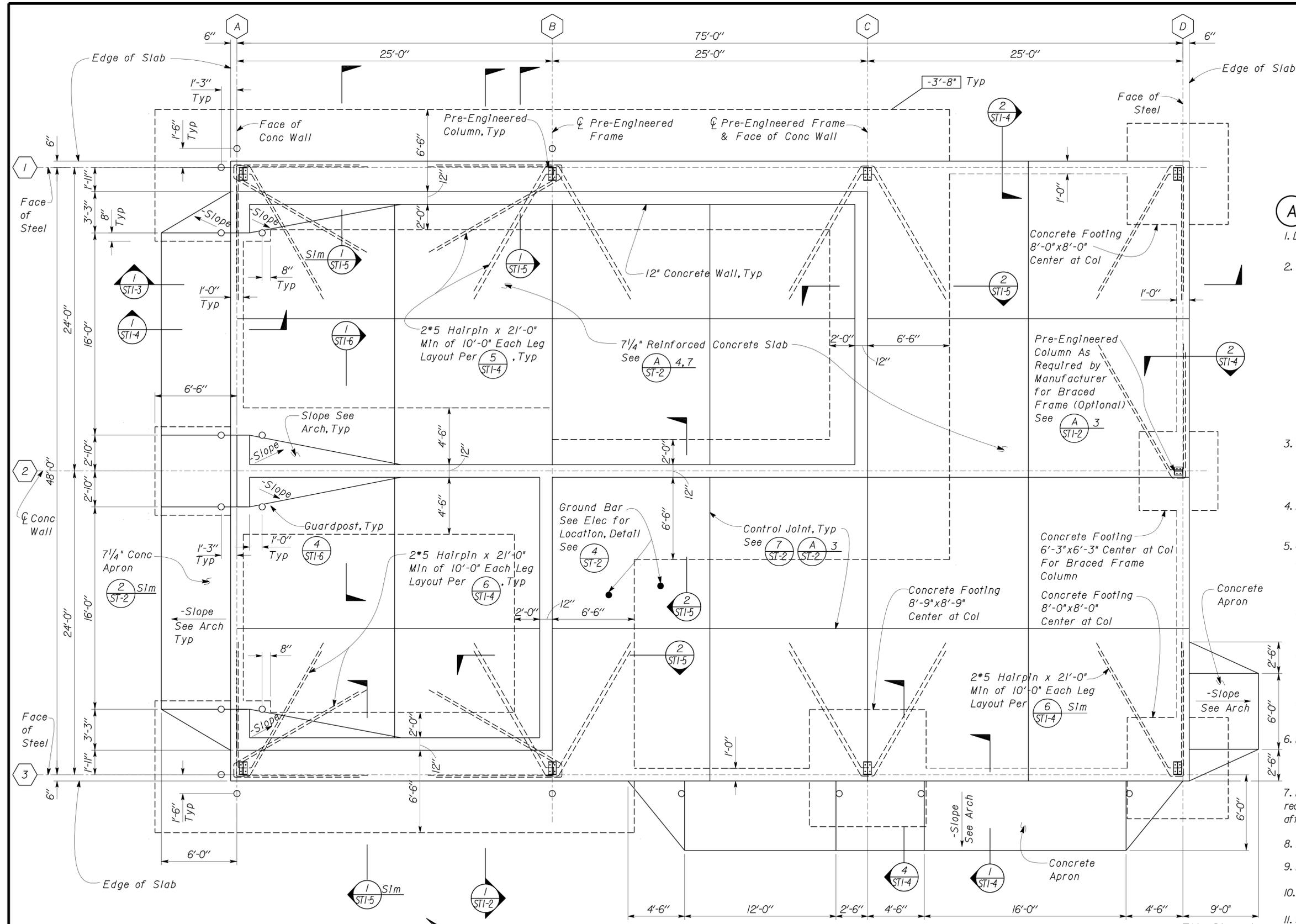
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1 Revision - 11-02-2006 Updated USP connector ID. 2 Anchor Bolt size & definition. 11-19-2008	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 47M5704 POST MILE	<b>CINDER / SALT SHED</b> <b>CONWAY SUMMIT MAINTENANCE STATION</b> WOOD FRAMING GENERIC DETAILS	SHEET <b>ST-3B</b>
	DOES SD Imperial Rev. 9/02	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	CU 09603 EA 334201	DISREGARD PRINTS BEARING EARLIER REVISION DATES REVISION DATES (PRELIMINARY STAGE ONLY) 10-18-03 11-14-05 11-02-06 01-15-08 11-19-08	SHEET OF

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	5704		22	52

<i>Dai Lu</i>		11-21-08
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- GENERAL DESIGN NOTES**
- Design: The building work on this project has been designed to conform to the 2007 California Building Code.
  - Loads: Live Loads: Roof 20 PSF  
Wind: 90 MPH, Exposure C, I=1.0 GC<sub>pl</sub> = ± 0.18  
Snow Loads: 220 PSF (Sloped Roof Snow Load, Non-Reducible)  
Seismic: S<sub>S</sub> = 1.50 g, S<sub>I</sub> = 0.62 g, Site Class D  
S<sub>DS</sub> = 1.0 g, S<sub>DI</sub> = 0.62 g, Seismic Design Category D  
C<sub>S</sub> = 0.308 (Strength Design)  
R = 3.25, I = 1.0, Occupancy Category II  
Building Frame System: Ordinary Steel Concentrically Braced Frame System  
Equivalent Lateral Force Analysis  
Base Shear V = 73 kips (Strength Design)
  - Structural Steel: f<sub>y</sub> = 50,000 PSI Min  
Structural Tube: f<sub>y</sub> = 46,000 PSI Min  
Structural Angle: f<sub>y</sub> = 36,000 PSI Min
  - Reinforced Concrete: f'<sub>c</sub> = 3,000 PSI  
f<sub>y</sub> = 60,000 PSI
  - Cold-formed Steel:
    - Section designations shall conform to the Steel Stud Manufacturer's Association nomenclature described in ICBO ER-3933P.
    - All sections except Studs shall be unpunched.
    - Framing screws shall be ICBO approved wafer head self-drilling self-tapping screws, subject to approval of the Engineer.
    - Penetration of Screws through joined materials shall not be less than 3 Exposed Threads. Screws shall be installed and tightened in accordance with Screw Manufacturer's Instructions.
    - Yield Strength shall be 33 ksi Minimum. For 68 mil Thickness the Yield Strength shall be 50 ksi.
  - Foundation: Soils report dated: July 1, 2008  
Allowable Soil Pressure (Dead Load + Live Load): 2,500 psf  
See Log of Test Borings sheets for Soil Classification.
  - Foundation design is subject to modification based upon the requirements of the pre-engineered building design. Construct foundation after approval of pre-engineered building submittal.
  - All Miscellaneous Metal to be hot-dip galvanized after fabrication.
  - All reinforcing bars shall be epoxy coated except ground bars.
  - See (A) STI-2 for Pre-Engineered building design notes.
  - See Mech. and Arch. for fuel tank locations. See sheet STI-7 for fuel tank thickened slab details.
  - See sheets ST-3A and ST-3B for non-load-bearing wood framing notes and details.

DESIGN BY <b>Dai Lu</b> CHECKED <b>Andrew W. Corker</b>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 47M5704	<b>CINDER / SALT SHED CONWAY SUMMIT MAINTENANCE STATION FOUNDATION PLAN</b>	SHEET OF <b>ST1-1</b>
			POST MILE		REVISION DATES (PRELIMINARY STAGE ONLY)
			CU 09603 EA 334201		DISREGARD PRINTS BEARING EARLIER REVISION DATES

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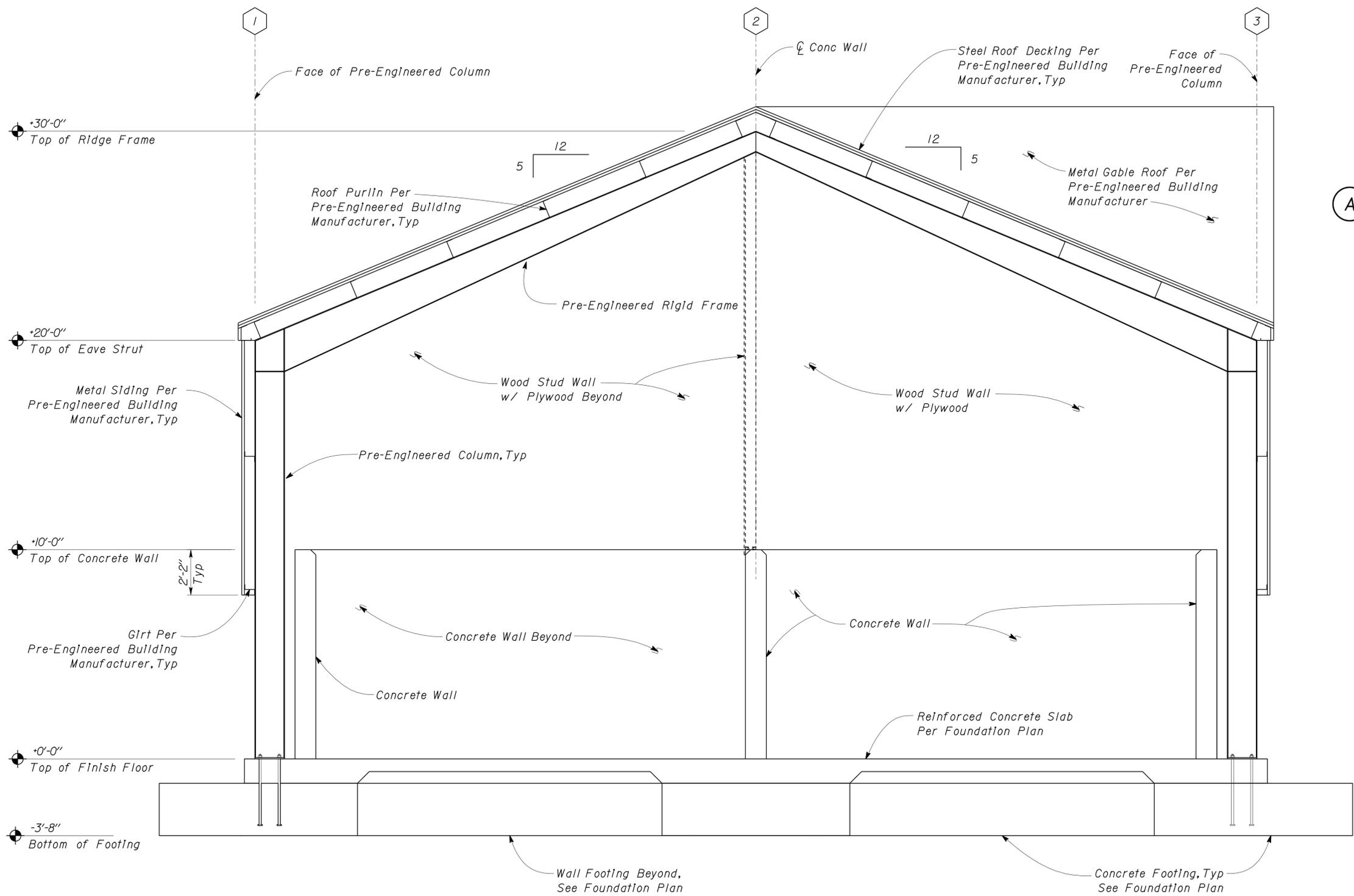
<i>Dai Lu</i>		11-21-08
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**1** TRANSVERSE SECTION  
Scale  $\frac{3}{8}'' = 1' - 0''$

**A PRE-ENGINEERED BUILDING DESIGN NOTES**

- Rigid Frames shall be provided at lines **A** through **C**
- Braced Frames shall be provided at lines **1** and **3**
- Rigid Frame Or Braced Frame shall be provided at line **D**
- For Design Loads, see **A** 2
- Collateral Loads shall include :
  - Wall & Ceiling Light Fixtures
  - Wall Mounted Exhaust Fans
  - Wall Mounted Furnace
  - Overhead Doors or Sectional Doors
  - Exhaust Evacuation Hose Reel and Fans
- Deflection criteria : Story drift =  $H/100$   
Framing Members =  $L/180 (D \cdot L)$
- Maximum Roof Purlin spacing is to be 5'-0" OC.
- Provide Framing for all Wall and Roof Penetrations, Electrical Fixtures and Doors. Framing Plans, details and calculations shall be submitted for approval prior to any installation.
- Girts shall be the Exterior Type.
- Anchor bolts shown are minimum. Contractor shall follow pre-engineered building manufacturer requirements.
- The Pre-Engineered Building design shall not transmit moment into the footings.
- The rigid frame support anchor bolts shall be embedded into the footing a minimum of 20 bolt diameters.
- As an option for better maintenance, wide flange steel beams can be used for the roof framing instead of light gage Z purlins.
- The Pre-Engineered Building design plans, details and all calculations shall be submitted for approval prior to any installation.

DESIGN	BY	Dai Lu	CHECKED	Andrew W. Corker	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO.	47M5704	<b>CINDER / SALT SHED CONWAY SUMMIT MAINTENANCE STATION</b>	SHEET <b>ST1-2</b>
	DETAILS	BY	Dai Lu	CHECKED			Andrew W. Corker	POST MILE		
QUANTITIES	BY		CHECKED		CU 09603 EA 334201	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)			SHEET OF

DOES SD Imperial Rev. 9/02

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



10-FEB-2010 06:58  
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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	5704		24	52

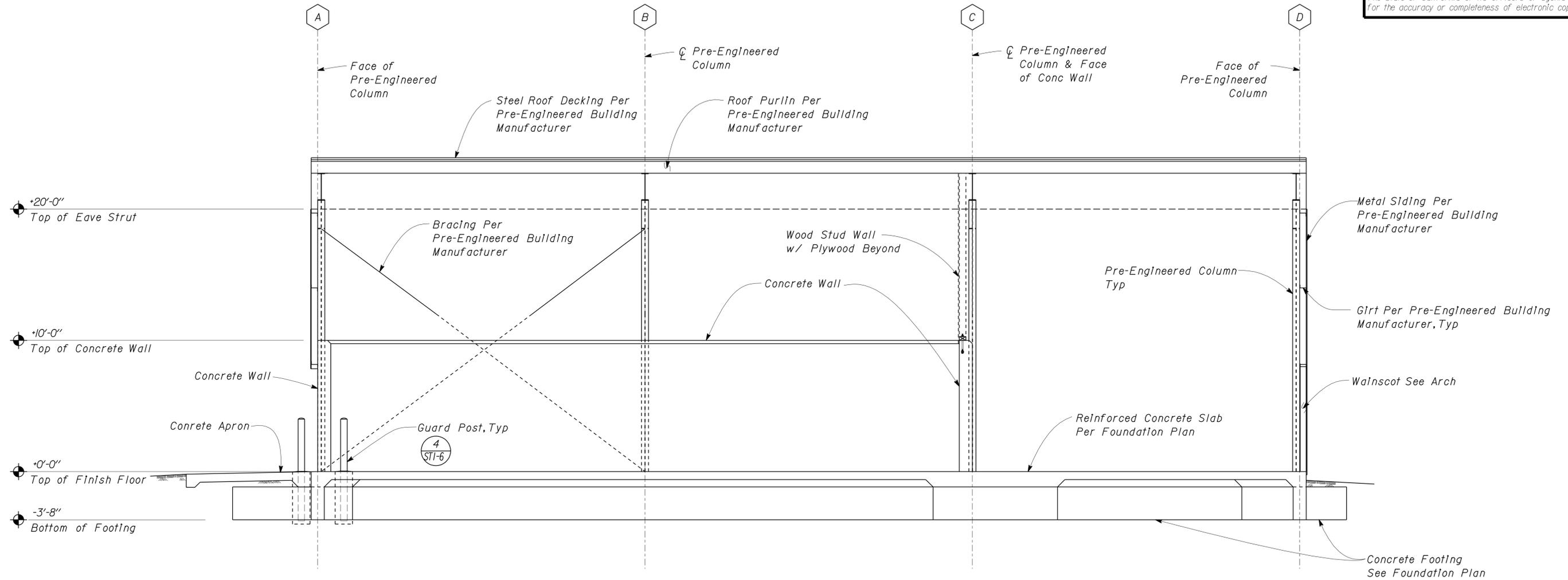
*Dai Lu*  
REGISTERED CIVIL ENGINEER

11-21-08  
DATE

6-22-09  
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
Dai Lu  
No. 67416  
Exp. 12-31-10  
CIVIL  
STATE OF CALIFORNIA

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**1** BUILDING LONGITUDINAL ELEVATION  
Scale 1/4" = 1' - 0"

DESIGN	BY Dai Lu	CHECKED Andrew W. Corker	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 47M5704	CINDER / SALT SHED CONWAY SUMMIT MAINTENANCE STATION BUILDING LONGITUDINAL ELEVATION	SHEET ST1-3
	DETAILS	BY Dai Lu			CHECKED Andrew W. Corker		
QUANTITIES	BY	CHECKED	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 09603 EA 334201	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
			0 1 2 3		05-02-08 06-12-08 07-18-08 08-22-08 09-25-08 11-21-08		

DOES SD Imperial Rev. 9/02

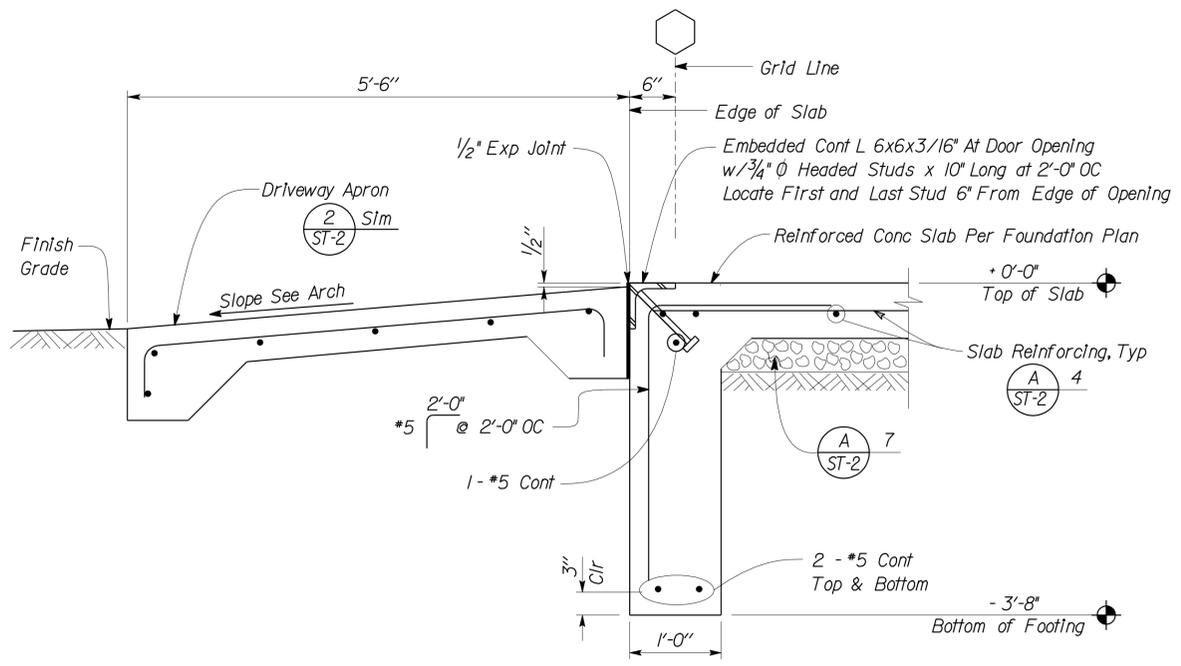
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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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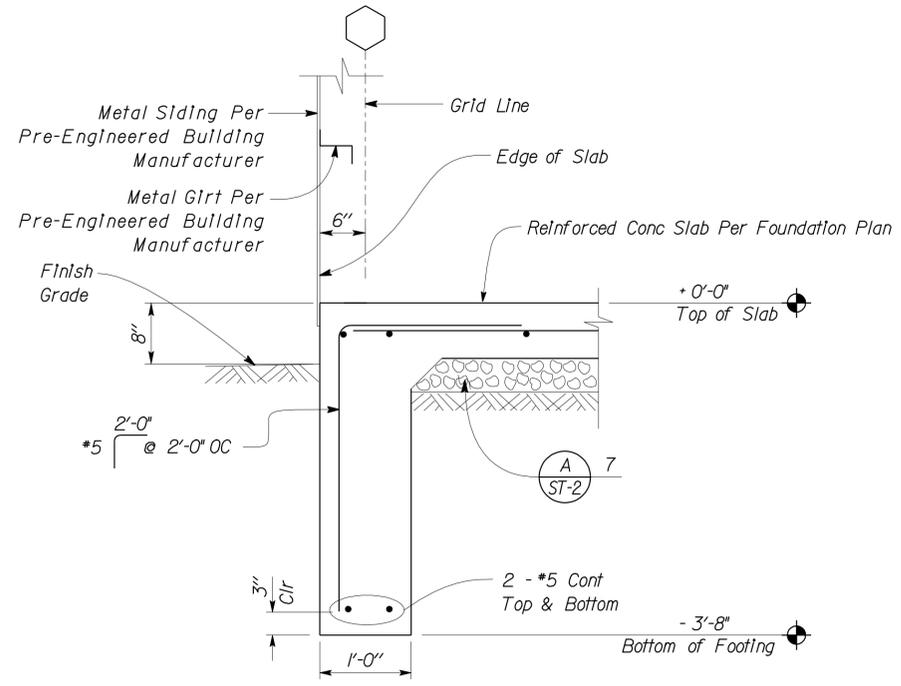
  

<i>Dai Lu</i>		11-21-08
REGISTERED CIVIL ENGINEER		DATE
6-22-09		
PLANS APPROVAL DATE		
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>		

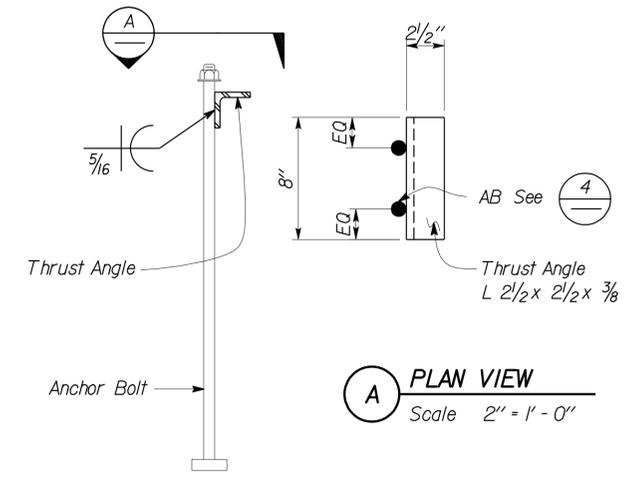
REGISTERED PROFESSIONAL ENGINEER  
 Dai Lu  
 No. 67416  
 Exp. 12-31-10  
 CIVIL  
 STATE OF CALIFORNIA



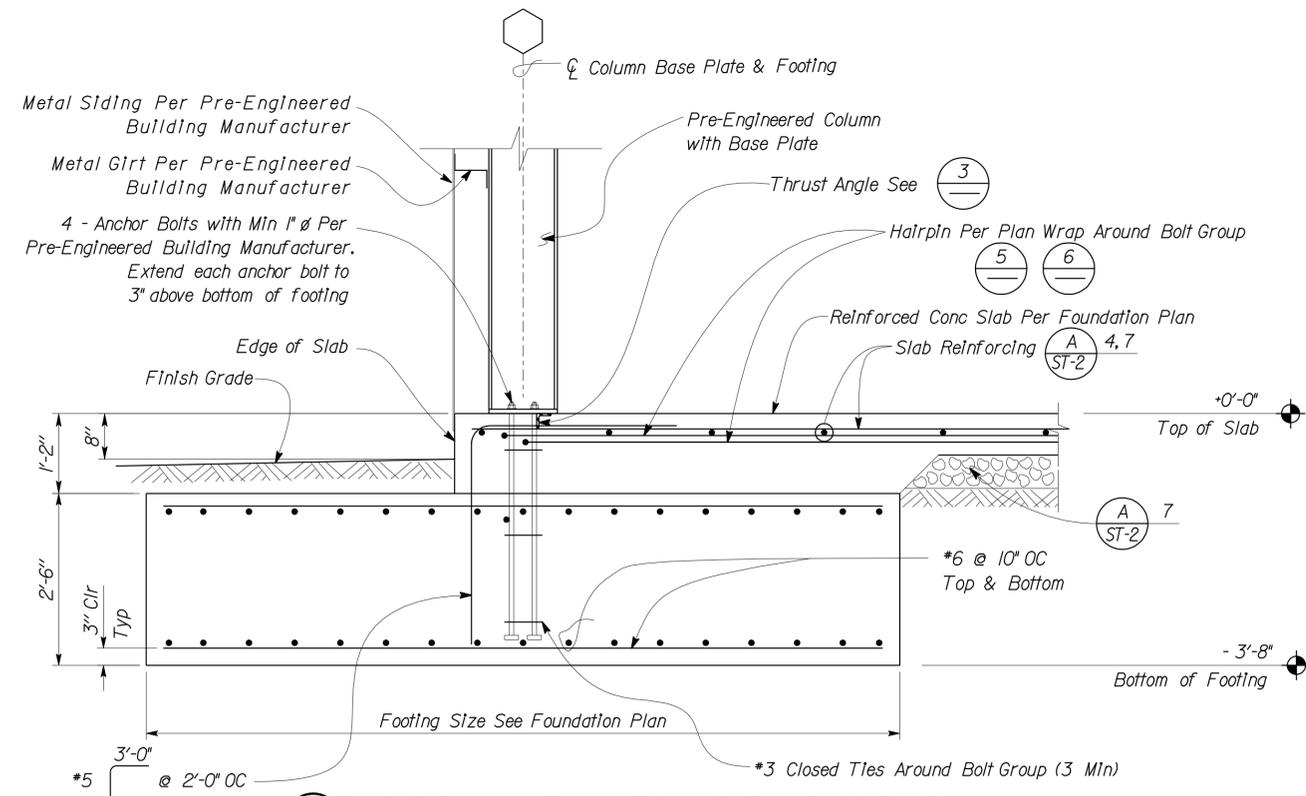
**1 THICKENED EDGE OF SLAB AT CONCRETE APRON AT OPENING**  
 Scale 1" = 1'-0"



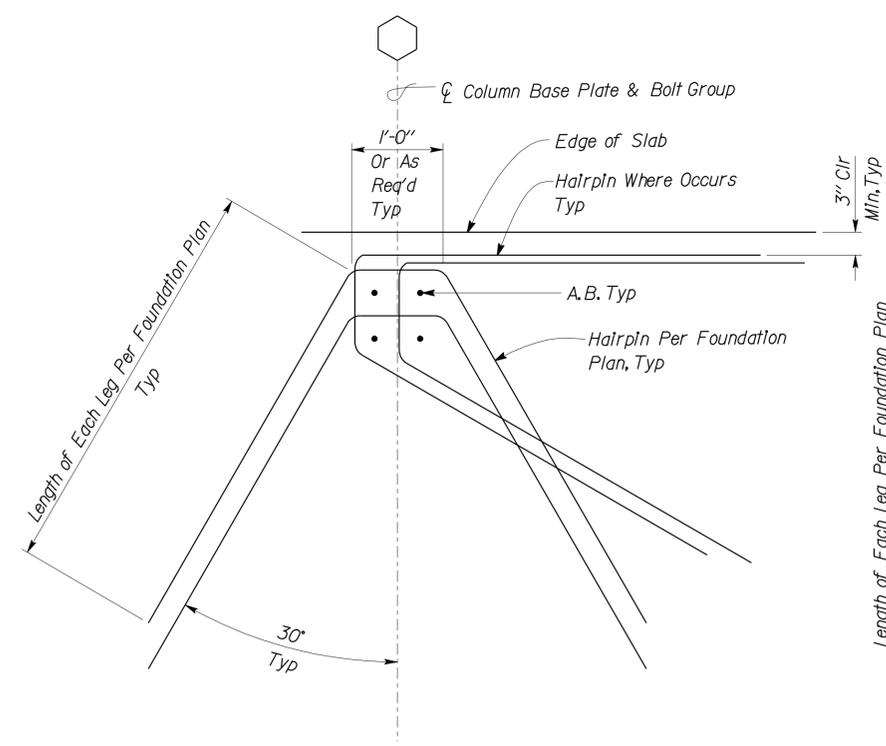
**2 PERIMETER FOOTING DETAIL**  
 Scale 1" = 1'-0"



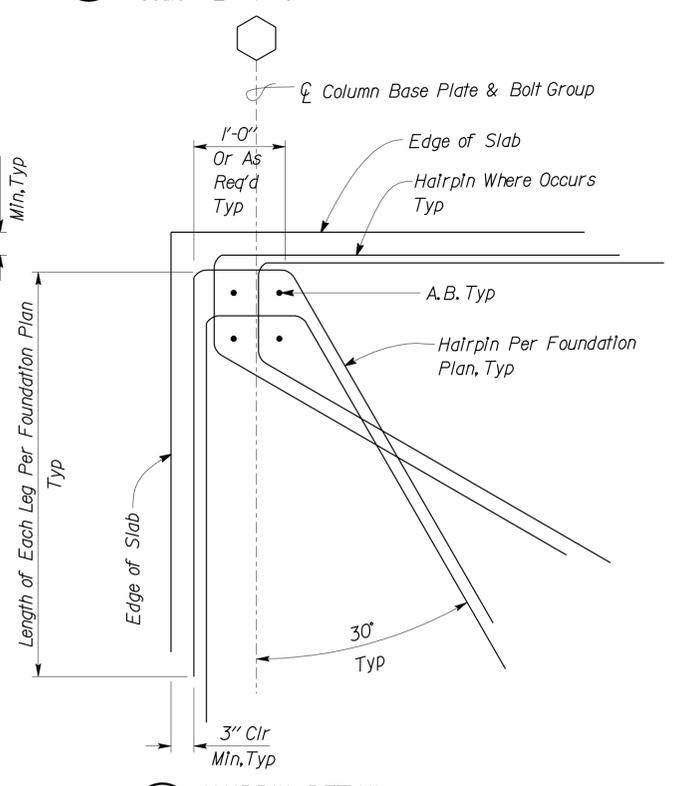
**3 ANCHOR BOLT/THRUST PLATE ASSEMBLY**  
 Scale 2" = 1'-0"



**4 COLUMN FOOTING DETAIL WITHOUT RETAINING WALL**  
 Scale 3/4" = 1'-0"



**5 HAIRPIN DETAIL**  
 Scale 1" = 1'-0"



**6 HAIRPIN DETAIL**  
 Scale 1" = 1'-0"

DESIGN	BY Dai Lu	CHECKED Andrew W. Corker	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 47M5704	<b>CINDER / SALT SHED CONWAY SUMMIT MAINTENANCE STATION</b>	SHEET 11
	DETAILS BY Dai Lu	CHECKED Andrew W. Corker			POST MILE		OF 14
	QUANTITIES	CHECKED					

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 09603 EA 334201	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
0 1 2 3			06-12-08 07-18-08 08-22-08 09-25-08 11-21-08	

10-FEB-2010 06:58

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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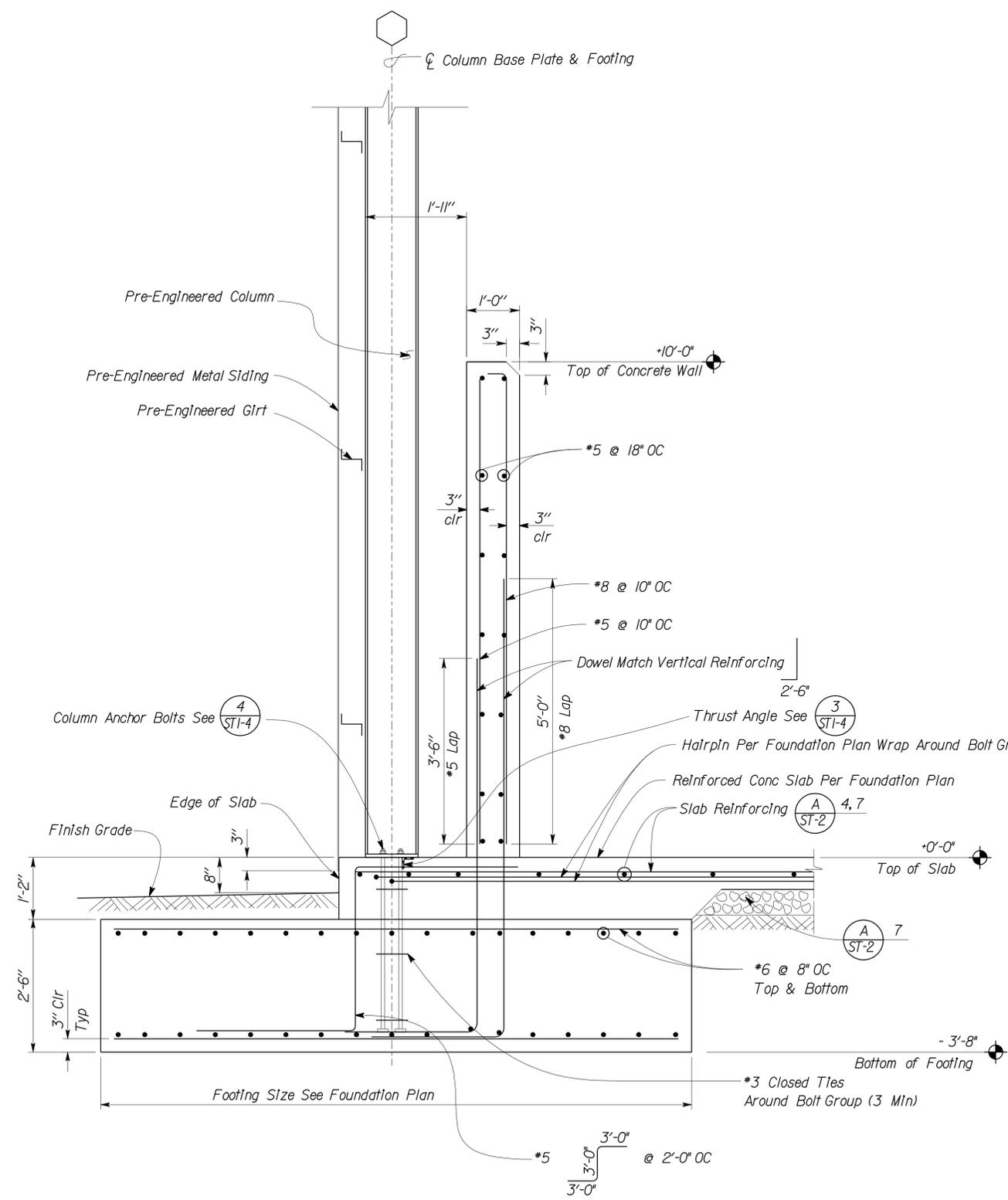
<i>Dai Lu</i>		11-21-08
REGISTERED CIVIL ENGINEER	DATE	

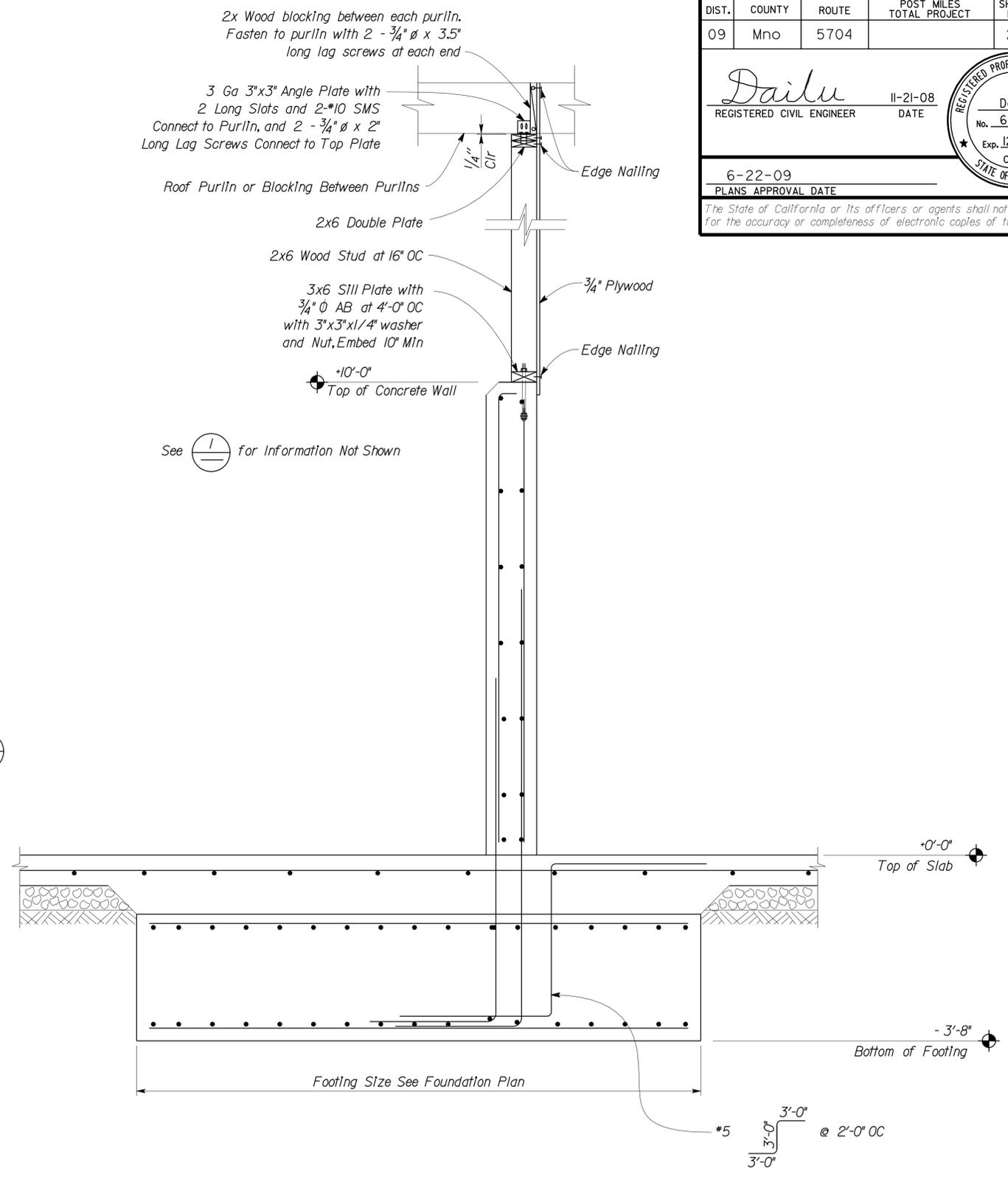
6-22-09
PLANS APPROVAL DATE

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**1** RETAINING WALL SECTION AT COLUMN  
Scale 3/4" = 1' - 0"



**2** RETAINING WALL SECTION  
Scale 3/4" = 1' - 0"

DESIGN	BY Dai Lu	CHECKED Andrew W. Corker	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 47M5704	CINDER / SALT SHED CONWAY SUMMIT MAINTENANCE STATION	SHEET ST1-5
	DETAILS	BY Dai Lu			CHECKED Andrew W. Corker		
QUANTITIES	BY	CHECKED	CU 09603 EA 334201	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF	

DOES SD Imperlal Rev. 9/02

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

06-12-08 07-18-08 08-22-08 09-25-08 11-21-08

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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	5704		27	52

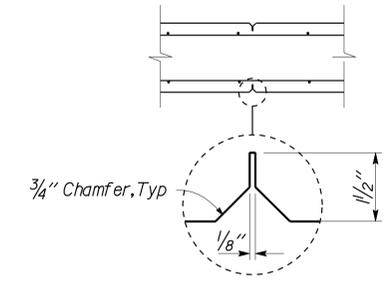
<i>Dai Lu</i>		11-21-08
REGISTERED CIVIL ENGINEER	DATE	

6-22-09
PLANS APPROVAL DATE

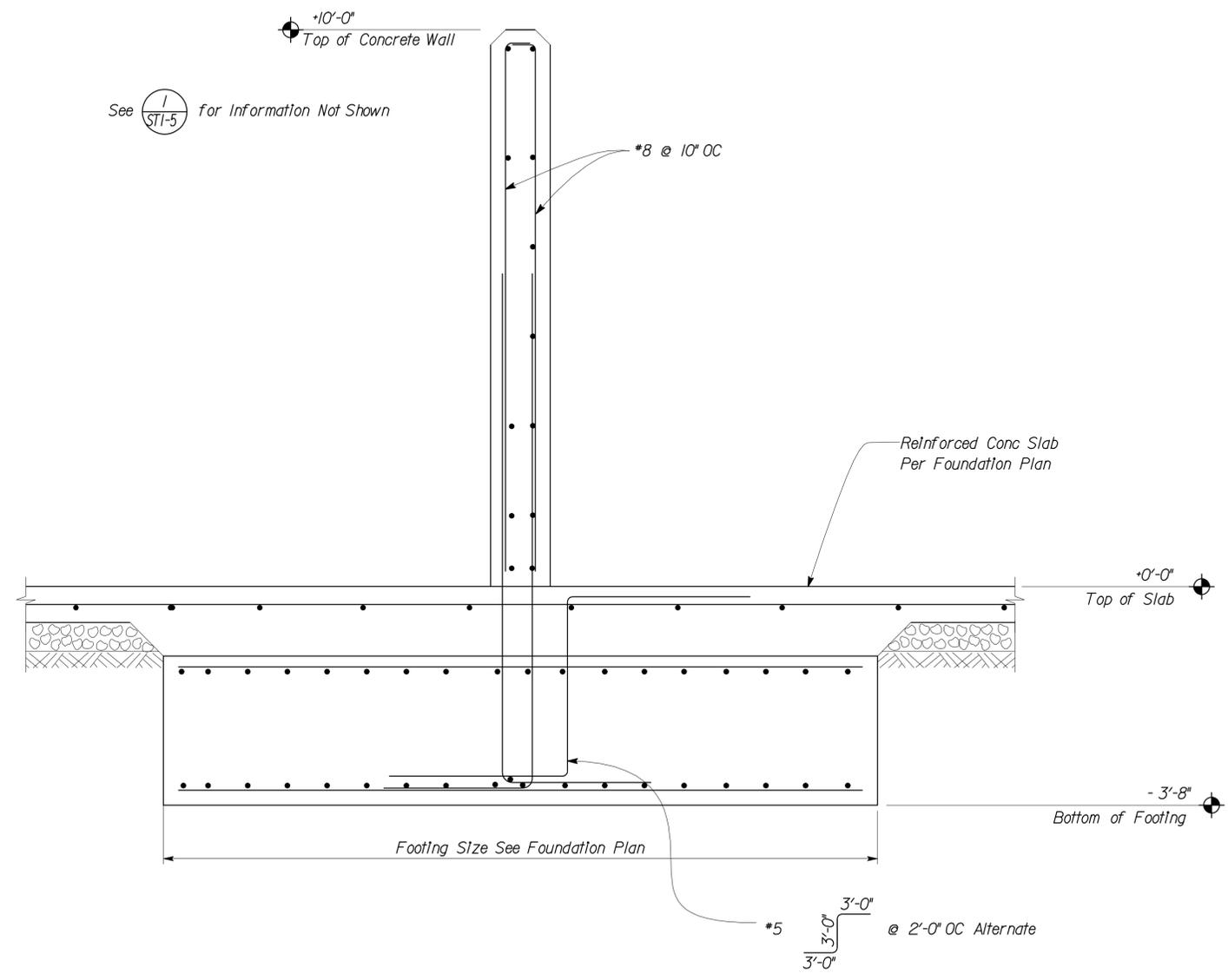
  

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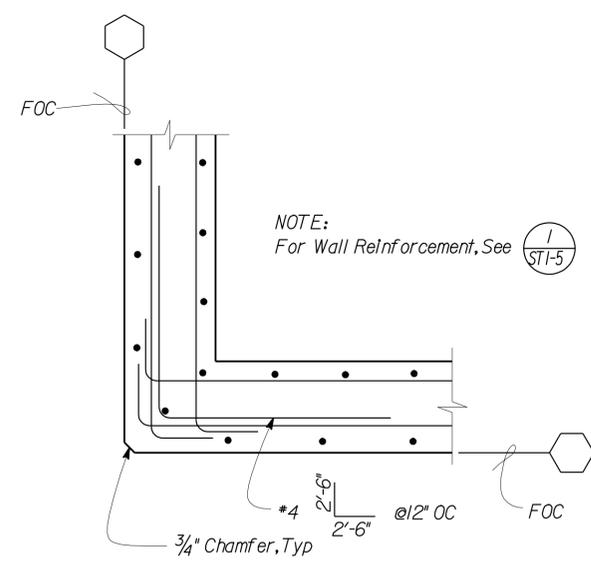


- NOTES:
- Control joints occur on interior and exterior face of concrete wall.
  - Control joint spacing shall not exceed 15'-0".

2 TYPICAL WALL VERTICAL CONTROL JOINT DETAIL  
No Scale

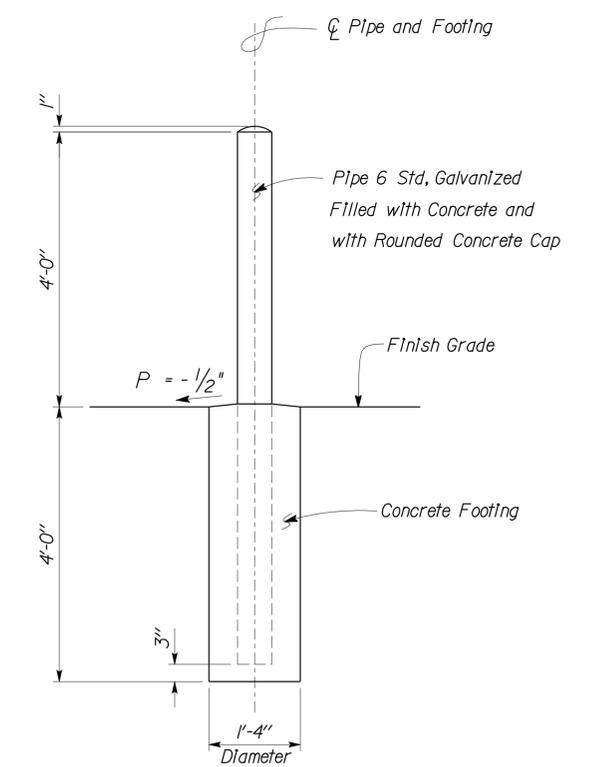


1 RETAINING WALL SECTION  
Scale 3/4 inch = 1 foot - 0 inch



NOTE:  
For Wall Reinforcement, See 1/STI-5

3 TYPICAL WALL CORNER REINFORCEMENT  
No Scale



4 PIPE GUARD POST DETAIL  
Scale 3/4 inch = 1 foot - 0 inch

DESIGN	BY Dai Lu	CHECKED Andrew W. Corker	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 47M5704	CINDER / SALT SHED CONWAY SUMMIT MAINTENANCE STATION	SHEET ST1-6
	DETAILS	BY Dai Lu			CHECKED Andrew W. Corker		
QUANTITIES	BY	CHECKED	CU 09603 EA 334201	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF	

DOES SD Imperial Rev. 9/02

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

REVISION DATES (PRELIMINARY STAGE ONLY)  
06-12-08 07-18-08 08-22-08 09-25-08 11-21-08

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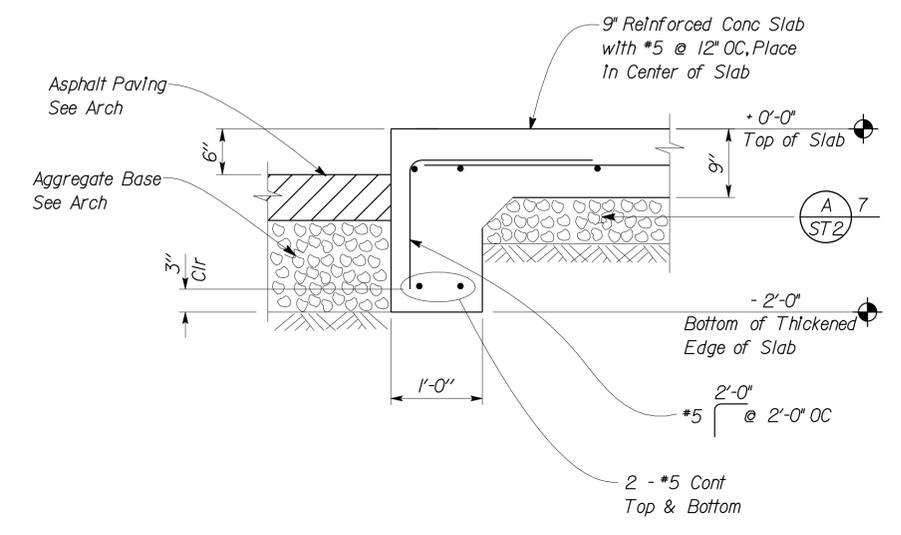
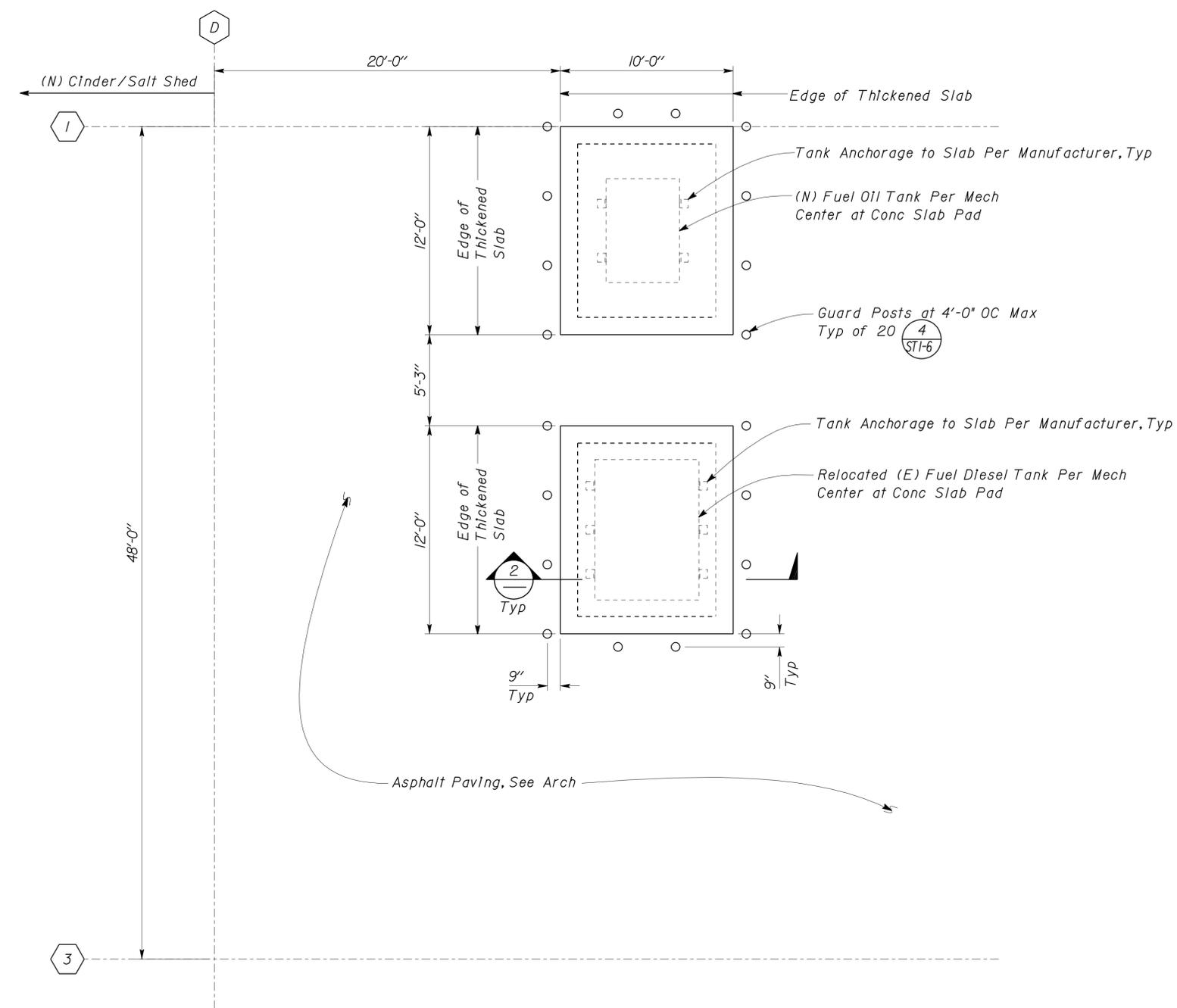
10-FEB-2010 06:59

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	5704		28	52

*Dai Lu*  
REGISTERED CIVIL ENGINEER  
DATE 11-21-08

6-22-09  
PLANS APPROVAL DATE

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

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

- Note:**
- See Arch and Mech for tank locations and sizes.
  - Contractor shall verify all controlling field dimensions before ordering or fabricating any material.
  - Contractor shall provide anchorage of tank to slab, and submit all calculations and details for Engineer's approval prior to installation.

DESIGN BY <b>Dai Lu</b>	CHECKED <b>Andrew W. Corker</b>	STATE OF <b>CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 47M5704	<b>CINDER / SALT SHED CONWAY SUMMIT MAINTENANCE STATION</b>	SHEET <b>ST1-7</b>					
				POST MILE			FUEL OIL TANK SLAB PLAN AND DETAILS				
DETAILS BY <b>Dai Lu</b>	CHECKED <b>Andrew W. Corker</b>	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 09603 EA 334201	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF					
QUANTITIES BY	CHECKED			0	1		2	3	DISREGARD PRINTS BEARING EARLIER REVISION DATES →	06-12-08	07-18-08

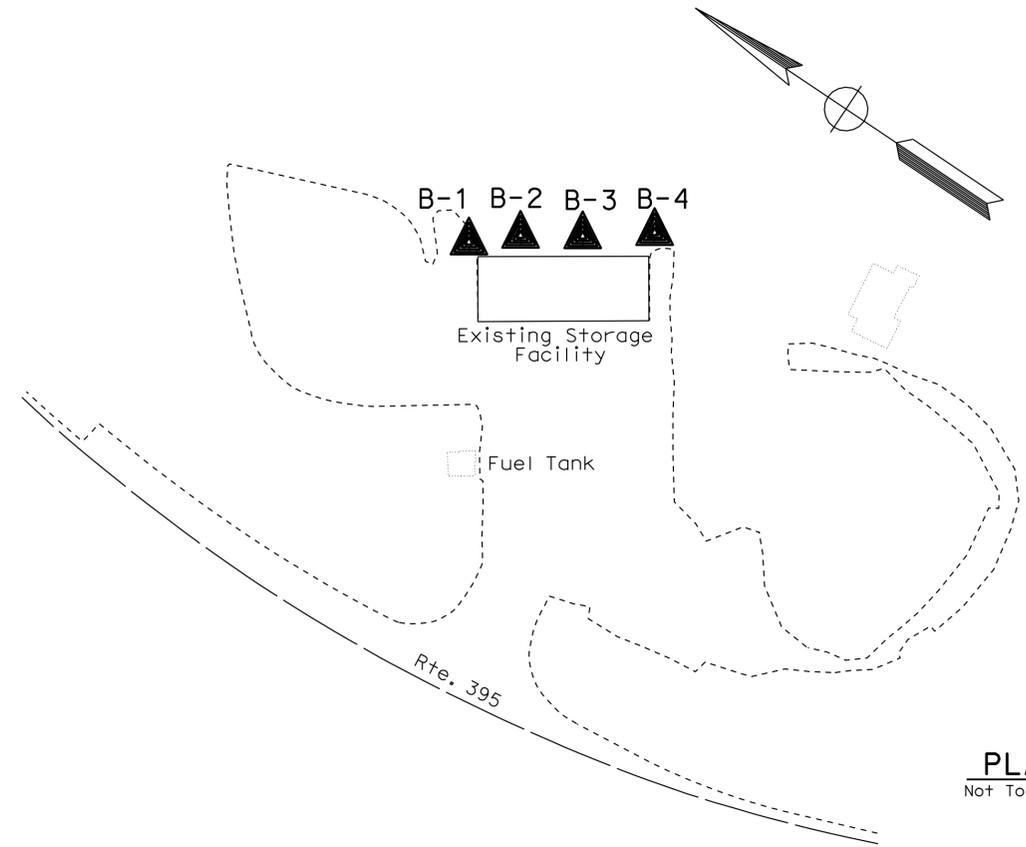
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
09	Mno	5704		29	52

REGISTERED CIVIL ENGINEER **John Huang**  
 No. C055670  
 Exp. 12-31-10  
 CIVIL  
 STATE OF CALIFORNIA

PLANS APPROVAL DATE: 07-17-08  
 6-22-09

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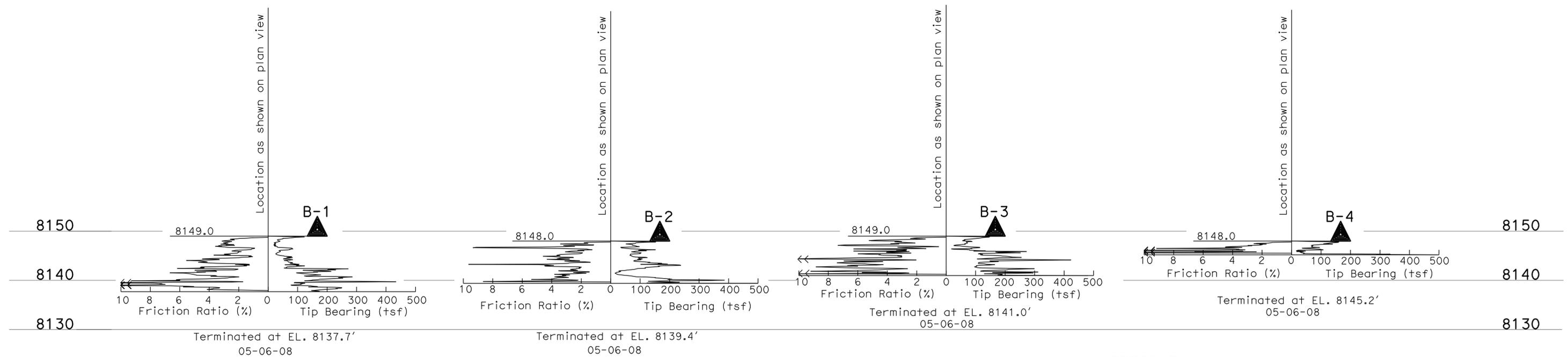
This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, & Presentation Manual (June 2007).



**BENCH MARK**  
 Boring elevations obtained from Topographic Map.

**PLAN**  
 Not To Scale

Note: No ground water encountered during field investigation.



**PROFILE**  
 HOR. Not To Scale  
 VER. 1"=10'

<b>ENGINEERING SERVICES</b>		<b>GEOTECHNICAL SERVICES</b>		<b>STATE OF CALIFORNIA</b>		<b>DIVISION OF ENGINEERING SERVICES</b>		<b>BRIDGE NO.</b>		<b>CINDER/SALT SHED</b>		<b>SHEET</b>	
FUNCTIONAL SUPERVISOR		DRAWN BY: W. Tang 07/08		DEPARTMENT OF TRANSPORTATION		STRUCTURE DESIGN		47M5704		<b>CONWAY SUMMIT MAINTENANCE STATION</b>		<b>ST1-8</b>	
NAME: Q. Huang		CHECKED BY: C. Zhen		FIELD INVESTIGATION BY:		<b>DESIGN BRANCH</b>		POST MILE		LOG OF TEST BORINGS		REVISION DATES	
065 CIVIL LOG OF TEST BORINGS SHEET		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3		CU 09603 EA 334201		DISREGARD PRINTS BEARING EARLIER REVISION DATES		07-17-08		SHEET OF	

USERNAME => hrmikes DATE PLOTTED => 10-FEB-2010 TIME PLOTTED => 06:59

GROUP SYMBOLS AND NAMES					
Graphic/Symbol	Group Names	Graphic/Symbol	Group Names	Graphic/Symbol	Group Names
	GW		CL		Lean CLAY
					Well-graded GRAVEL with SAND
	GP		CL		Lean CLAY with GRAVEL
					Poorly graded GRAVEL with SAND
	GW-GM		CL-ML		SILTY CLAY
					Well-graded GRAVEL with SILT
	GW-GC		CL-ML		SILTY CLAY with GRAVEL
					Well-graded GRAVEL with SILT and SAND
	GW-GC		CL-ML		SANDY SILTY CLAY with GRAVEL
					Well-graded GRAVEL with CLAY (or SILTY CLAY)
	GP-GM		ML		SILT
					Well-graded GRAVEL with CLAY and SAND (or SILTY CLAY and SAND)
	GP-GM		ML		SILT with GRAVEL
					Poorly graded GRAVEL with SILT
	GP-GC		ML		SANDY SILT with GRAVEL
					Poorly graded GRAVEL with SILT and SAND
	GP-GC		ML		GRAVELLY SILT with SAND
					Poorly graded GRAVEL with CLAY (or SILTY CLAY)
	GM		OL		ORGANIC lean CLAY with SAND
					SILTY GRAVEL
	GC		OL		SANDY ORGANIC lean CLAY
					SILTY GRAVEL with SAND
	GC		OL		GRAVELLY ORGANIC lean CLAY
					CLAYEY GRAVEL
	GC-GM		OL		ORGANIC SILT
					CLAYEY GRAVEL with SAND
	GC-GM		OL		ORGANIC SILT with GRAVEL
					SILTY, CLAYEY GRAVEL
	SW		CH		Fat CLAY
					Well-graded SAND
	SP		CH		Fat CLAY with GRAVEL
					Well-graded SAND with GRAVEL
	SP		CH		SANDY fat CLAY with GRAVEL
					Poorly graded SAND
	SW-SM		MH		GRAVELLY fat CLAY with SAND
					Well-graded SAND with SILT
	SW-SC		MH		Elastic SILT with SAND
					Well-graded SAND with SILT and GRAVEL
	SW-SC		MH		SANDY elastic SILT
					Well-graded SAND with CLAY (or SILTY CLAY)
	SP-SM		OH		GRAVELLY elastic SILT
					Poorly graded SAND with SILT
	SP-SC		OH		ORGANIC fat CLAY
					Poorly graded SAND with SILT and GRAVEL
	SM		OH		ORGANIC fat CLAY with GRAVEL
					Poorly graded SAND with CLAY (or SILTY CLAY)
	SM		OH		GRAVELLY ORGANIC fat CLAY
					SILTY SAND
	SC		OH		ORGANIC elastic SILT
					SILTY SAND with GRAVEL
	SC-SM		OH		ORGANIC elastic SILT with GRAVEL
					CLAYEY SAND
	SC-SM		OH		SANDY ORGANIC elastic SILT with GRAVEL
					SILTY, CLAYEY SAND
	PT		OL/OH		GRAVELLY ORGANIC elastic SILT with SAND
					SILTY, CLAYEY SAND with GRAVEL
	PT		OL/OH		ORGANIC SOIL with SAND
					PEAT
			OL/OH		SANDY ORGANIC SOIL
					COBBLES
			OL/OH		GRAVELLY ORGANIC SOIL
					COBBLES and BOULDERS

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

07-17-08  
 REGISTERED CIVIL ENGINEER  
 6-22-09  
 PLANS APPROVAL DATE  
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APPARENT DENSITY OF COHESIONLESS SOILS	
Description	SPT N <sub>60</sub> (Blows / 12 inches)
Very loose	0 - 4
Loose	5 - 10
Medium Dense	11 - 30
Dense	31 - 50
Very Dense	> 50

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

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

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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
09	Mno	5704		31	52

REGISTERED CIVIL ENGINEER 07-17-08

6-22-09  
PLANS APPROVAL DATE

John Huang  
No. C055670  
Exp. 12-31-10  
CIVIL  
STATE OF CALIFORNIA

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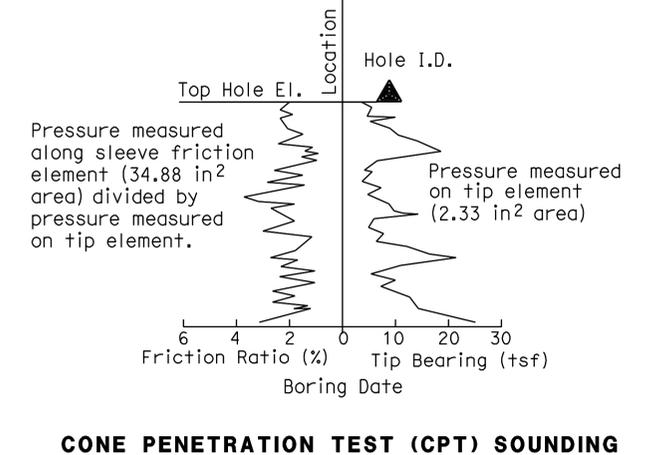
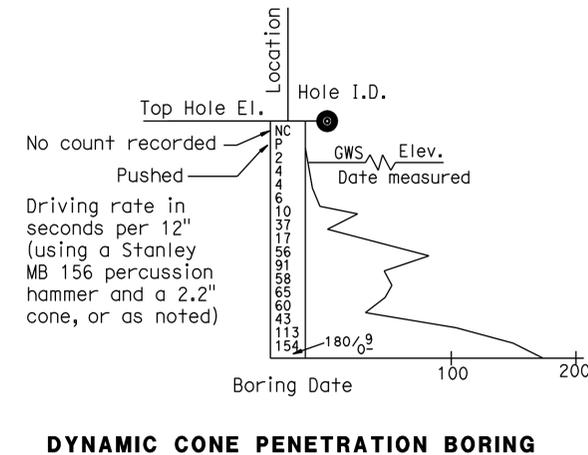
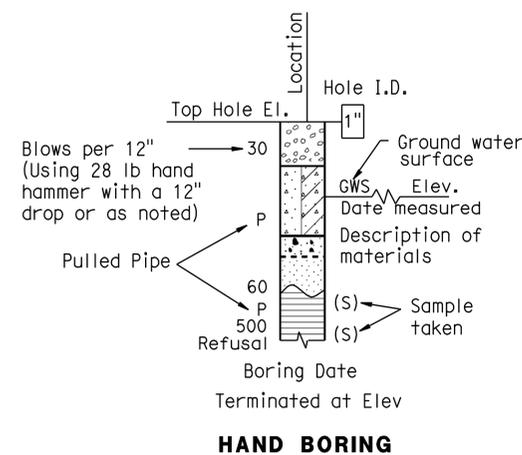
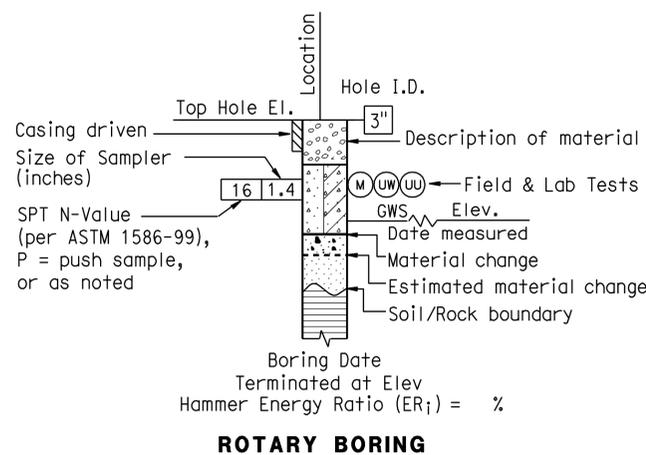
CEMENTATION	
Description	Criteria
Weak	Crumbles or breaks with handling or little finger pressure.
Moderate	Crumbles or breaks with considerable finger pressure.
Strong	Will not crumble or break with finger pressure.

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

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

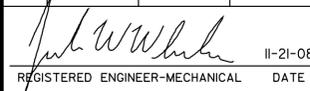
Note: Size in inches.

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



<b>ENGINEERING SERVICES</b>	<b>GEOTECHNICAL SERVICES</b>	<b>STATE OF CALIFORNIA</b>	<b>DIVISION OF ENGINEERING SERVICES</b>	BRIDGE NO. 47M5704	<b>CINDER/SALT SHED</b>	SHEET
	PREPARED BY: W. Tang 07/08	<b>DEPARTMENT OF TRANSPORTATION</b>	<b>STRUCTURE DESIGN</b>	POST MILE	<b>CONWAY SUMMIT MAINTENANCE STATION</b>	<b>ST1-10</b>
GS LOTB SOIL LEGEND	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 09603 EA 334201	<b>DESIGN BRANCH</b>	DISREGARD PRINTS BEARING EARLIER REVISION DATES	LOG OF TEST BORINGS	REVISION DATES

USERNAME => hrmikes DATE PLOTTED => 10-FEB-2010 TIME PLOTTED => 07:00

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	5704		32	52
 REGISTERED ENGINEER-MECHANICAL DATE 11-21-08					
6-22-09 PLANS APPROVAL DATE					

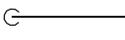
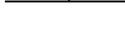
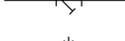
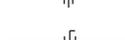
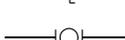
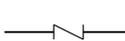
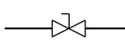
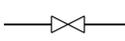
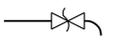
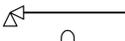
**CALIFORNIA STATE FIRE MARSHAL**  
**APPROVED**  
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.  
 Reviewed by: Pam Emick  
 PAM EMICK  
 Approval date: 12-1-08

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PLUMBING

— — — — —	Cold Water
— — — — — A	Compressed Air
— — — — — G	Gas
— — — — — D	Equipment Drain
— — — — — F	Fire Water
— — — — —	Hot Water
— — — — —	Hot Water Return
— — — — — LPG	Liquid 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

HEATING, VENTILATING AND AIR CONDITIONING

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

MISCELLANEOUS

L	Angle
℄	Centerline
∅	Diameter
	Section / Elevation Letter
	Sheet Number
	Detail Number
	Sheet Number

MECHANICAL ABBREVIATIONS:

A/C	Air Conditioning	GA	Gauge	R	Radius
ABS	Acrylonitrile Butadiene Styrene	GALV	Galvanized	REG	Register
AC	Air Compressor	GLV	Globe Valve	RA	Return Air
AD	Air Drop	GPM	Gallons Per Minute	RCP	Reinforced Concrete Pipe
AP	Alternative Pipe	GSP	Galvanized Steel Pipe	REQ	Required
ATF	Automatic Transmission Fluid	GV	Gate Valve	RH	Radiant Heater
AWG	American Wire Gauge	GWH	Gas Water Heater	RV	Relief Valve
BFP	Backflow Preventer	GYP	Gypsum	S/S	Service Sink
BLDG	Building	H	Height	SA	Supply Air
BTU	British Thermal Unit	HB	Hydrant Box	SAS	Sail Switch
BTUH	British Thermal Unit Per Hour	HF	Hose Faucet	SCH	Schedule
BV	Balancing Valve	hp	Horse Power	SD	Storm Drain
C	Conduit	HP	Heat Pump	SF	Supply Fan
CFM	Cubic Feet Per Minute	HVAC	Heating, Ventilating And Air Conditioning	SHR	Shower
CH	Cabinet Heater	HW	Hot Water	SP	Static Pressure
CI	Cast-Iron	HWR	Hot Water Return	SS	Sanitary Sewer
CO	Cleanout	HWS	Hot Water Supply	STA	Station
COTF	Cleanout Through Floor	HZ	Hertz	STD	Standard
COTG	Cleanout To Grade	ID	Inside Diameter	TCV	Temperature Control Valve
COTW	Cleanout To Wall	IE	Invert Elevation	TOT	Total
CU	Condensing Unit	IN	Inch	TS	Time Switch
CW	Cold Water	IPS	International Pipe Standard	TYP	Typical
D	Depth	KS	Kitchen Sink	UH	Unit Heater
DB	Dry Bulb	KW	Kilowatt	URI	Urinal
DEF	Declassification Fan	LAV	Lavatory	UTL	Under Truck Lights
DEG	Degree	LPG	Liquid Petroleum Gas	V	Volts
DH	Duct Heater	MAX	Maximum	VAC	Voltage, Alternating Current
DIA	Diameter	MAN	Manhole	VCP	Vitrified Clay Pipe
(E)	Existing	MIN	Minimum	VR	Vent Riser
EA	Exhaust Air	MS	Map Sink	VTR	Vent Through Roof
EC	Evaporative Cooler	NIC	Not In Contract	W	Watts
EEHR	Exhaust Evacuation Hose Reel and Fan	NO	Number	W/	With
EEW	Emergency Eyewash	NPT	National Pipe Thread	W/H	Wall Hydrant
EEW&S	Emergency Eyewash And Shower	NST	National Standard Thread	W/O	Without
EF	Exhaust Fan	OA	Outside Air	WB	Wet Bulb
EL	Elevation	OC	On Center	WC	Water Closet
ERWH	Electric Radiant Wall Heater	OD	Outside Diameter	W.C.	Water Column
EWH	Electric Water Heater	OG	Original Ground	WH	Wall Heater
F	Fahrenheit	PCC	Portland Cement Concrete	WHA	Water Hammer Arrestor
FD	Floor Drain	PEX	Cross Linked polyethylene	WLS	Water Level Switch
FE	Fire Extinguisher	PH	Phase	WP	Weatherproof
FEF	Fume Exhaust Fan	POC	Point Of Connection	WS	Wash Sink
FG	Finish Grade	PR	Pressure Regulator	WSP	Welded Steel Pipe
FH	Fire Hydrant	PRV	Pressure Reducing Valve		
FL	Flow Line	PSI	Pounds Per Square Inch		
FT	Feet	PVC	Polyvinyl Chloride		
FUR	Furnace				

THIS DRAWING ACCURATE FOR MECHANICAL WORK ONLY

DESIGN BY <i>Thomas Dietsch</i> CHECKED <i>Jack Wheeler</i> DETAILS BY <i>Thomas Dietsch</i> CHECKED <i>Jack Wheeler</i> QUANTITIES BY <i>Thomas Dietsch</i> CHECKED <i>Jack Wheeler</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 47M5704	<b>CINDER/SALT SHED          CONWAY SUMMIT MAINTENANCE STATION</b> ABBREVIATIONS AND LEGENDS	SHEET <b>M-1</b>
			POST MILE		REVISION DATES (PRELIMINARY STAGE ONLY) 6/15/08 11/21/08
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		CU 09603 EA 334201	DISREGARD PRINTS BEARING EARLIER REVISION DATES		

BKW DOS ELEC(1/93)

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	5704		33	52


 REGISTERED ENGINEER-MECHANICAL DATE 11-21-08  
 PLANS APPROVAL DATE 6-22-09

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**CALIFORNIA STATE FIRE MARSHAL APPROVED**  
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 Reviewed by: *Pam Emick*  
 PAM EMICK  
 Approval date: 12-1-08

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

PROJECT NAME CINDER / SALT SHED CONWAY SUMMIT MAINTENANCE STATION		DATE 10/31/08
PROJECT ADDRESS CONWAY SUMMIT ROUTE 395		
PRINCIPAL DESIGNER-MECHANICAL Jack Wheeler	TELEPHONE (916) 227-8352	Building Permit #  Checked by/Date Enforcement Agency Use
DOCUMENTATION AUTHOR Solomon Wong	TELEPHONE (916) 227-8330	
<b>GENERAL INFORMATION</b>		
DATE OF PLANS 09/23/08	BUILDING CONDITIONED FLOOR AREA 185 sq ft	CLIMATE ZONE 16
BUILDING TYPE <input checked="" type="checkbox"/> NONRESIDENTIAL <input type="checkbox"/> HIGH RISE RESIDENTIAL <input type="checkbox"/> HOTEL/MOTEL GUEST ROOM		
PHASE OF CONSTRUCTION <input checked="" type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> ADDITION <input type="checkbox"/> ALTERATION <input type="checkbox"/> UNCONDITIONED (File affidavit)		
<b>STATEMENT OF COMPLIANCE</b>		

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

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

DOCUMENTATION AUTHOR Solomon Wong	SIGNATURE <i>Solomon C. Wong</i>	DATE 08/28/08
--------------------------------------	-------------------------------------	------------------

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

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

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

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

PRINCIPAL MECHANICAL DESIGNER-NAME Jack Wheeler	SIGNATURE <i>Jack Wheeler</i>	DATE 08/28/08	LIC.# M 21648
--	----------------------------------	------------------	------------------

#### MECHANICAL MANDATORY MEASURES

INSTRUCTIONS TO APPLICANT MECHANICAL COMPLIANCE & WORKSHEETS (Check box if worksheet is included)	
<input checked="" type="checkbox"/> MECH-1-C	Certificate of Compliance. Part 1 of 3, 2 of 3, 3 of 3 are required on plans for all submittals.
<input type="checkbox"/> MECH-2-C	Air/Water/Service/Water Pools Requirements. Part 1 of 3, 2 of 3, 3 of 3 are required for all submittals, but may be on plans.
<input type="checkbox"/> MECH-3-C	Mechanical Ventilation and Reheat is required for all submittals with mechanical ventilation, but may be on plans.
<input type="checkbox"/> MECH-4-C	HVAC Misc. Prescriptive Requirements is required for all prescriptive submittals, but may be on plans.

2005 Nonresidential Compliance Forms January 2006

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

PROJECT NAME CINDER / SALT SHED CONWAY SUMMIT MAINTENANCE STATION		DATE 10/31/08
PROJECT ADDRESS CONWAY SUMMIT ROUTE 395		
PRINCIPAL DESIGNER-ENVELOPE GOFFREDO RIVIECCIO	TELEPHONE (916) 227-8286	Building Permit #  Checked by/Date Enforcement Agency Use
DOCUMENTATION AUTHOR Solomon Wong	TELEPHONE (916) 227-8330	
<b>GENERAL INFORMATION</b>		
DATE OF PLANS 09/23/08	BUILDING CONDITIONED FLOOR AREA 185 sq ft	CLIMATE ZONE 16
BUILDING TYPE <input checked="" type="checkbox"/> NONRESIDENTIAL <input type="checkbox"/> HIGH RISE RESIDENTIAL <input type="checkbox"/> HOTEL/MOTEL GUEST ROOM <input type="checkbox"/> RELOCATABLE - Indicate: <input type="checkbox"/> Specific climate - list _____, or <input type="checkbox"/> all climates		
PHASE OF CONSTRUCTION <input checked="" type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> ADDITION <input type="checkbox"/> ALTERATION <input type="checkbox"/> UNCONDITIONED (File affidavit)		
METHOD OF ENVELOPE COMPLIANCE <input type="checkbox"/> COMPONENT <input checked="" type="checkbox"/> OVERALL ENVELOPE		
SUPPORTING FORMS SUBMITTED <input type="checkbox"/> ENV-2-C (Component) <input type="checkbox"/> ENV-3-C (Overall Envelope) <input type="checkbox"/> ENV-4-C (Skylight Worksheet)		
<b>STATEMENT OF COMPLIANCE</b>		

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

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

DOCUMENTATION AUTHOR Solomon Wong	SIGNATURE <i>Solomon C. Wong</i>	DATE 08/28/08
--------------------------------------	-------------------------------------	------------------

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

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

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

PRINCIPAL ENVELOPE DESIGNER-NAME X GOFFREDO RIVIECCIO	SIGNATURE <i>Goffredo Rivieccio</i>	DATE 08/22/08	LIC.# C 17914
--	--	------------------	------------------

#### ENVELOPE MANDATORY MEASURES

Indicate location on plans of Note Block for Mandatory Measures \_\_\_\_\_

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

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

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

2005 Nonresidential Compliance Forms January 2006

THIS DRAWING ACCURATE FOR MECHANICAL WORK ONLY

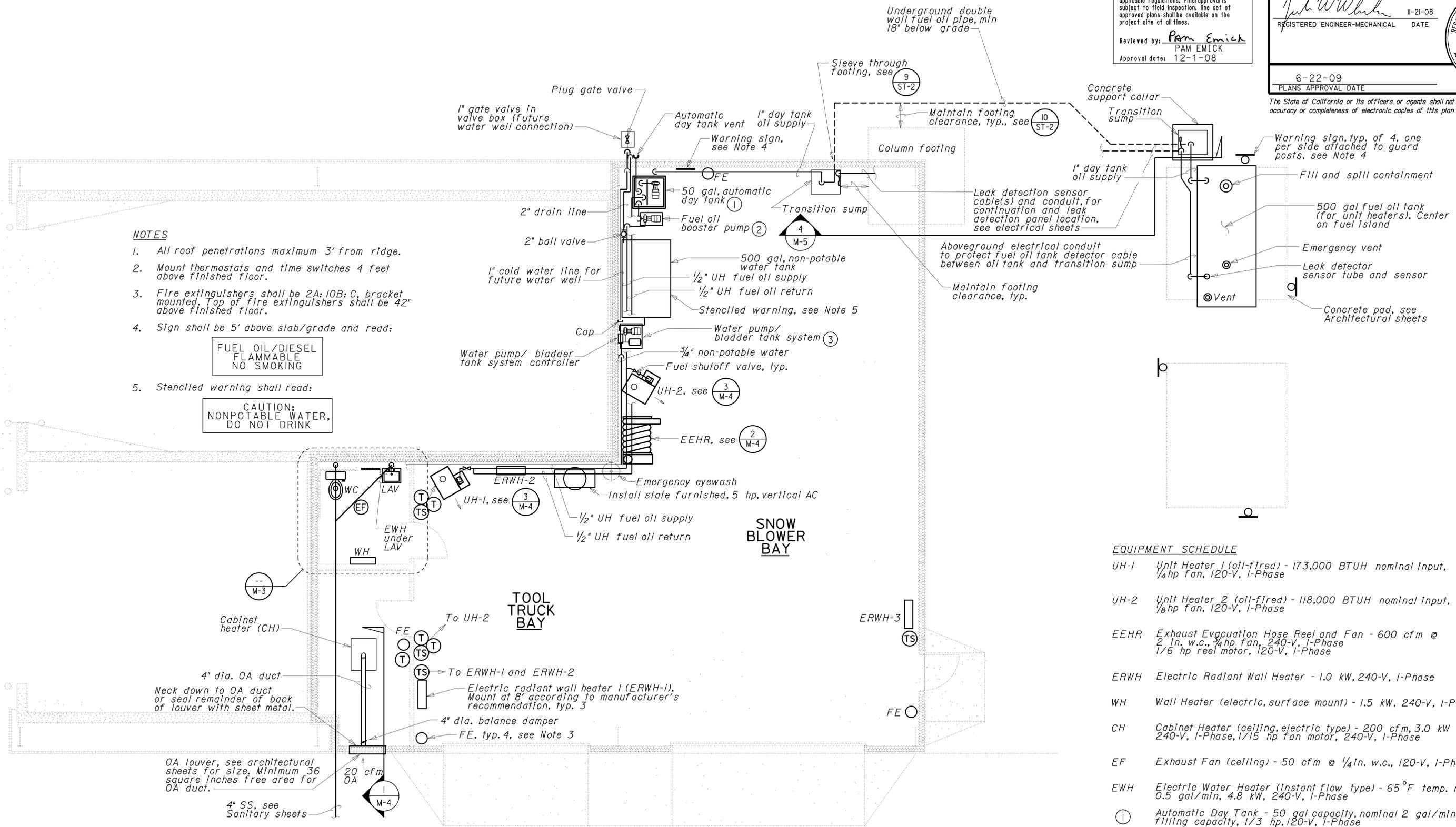
DESIGN BY <i>Thomas Dietsch</i> CHECKED <i>Jack Wheeler</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 47M5704	CINDER / SALT SHED CONWAY SUMMIT MAINTENANCE STATION	SHEET M-1.5
			POST MILE		
DETAILS BY <i>Thomas Dietsch</i> CHECKED <i>Jack Wheeler</i>	CU 09603 EA 334201	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	6/15/08	11/21/08
QUANTITIES BY <i>Thomas Dietsch</i> CHECKED <i>Jack Wheeler</i>	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3			

**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: Pam Emick  
 PAM EMICK  
 Approval date: 12-1-08

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	5704		34	52

REGISTERED ENGINEER-MECHANICAL DATE: 11-21-08  
 6-22-09  
 PLANS APPROVAL DATE

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**EQUIPMENT SCHEDULE**

UH-1	Unit Heater 1 (oil-fired) - 173,000 BTUH nominal input, 1/4hp fan, 120-V, 1-Phase
UH-2	Unit Heater 2 (oil-fired) - 118,000 BTUH nominal input, 1/8hp fan, 120-V, 1-Phase
EEHR	Exhaust Evguation Hose Reel and Fan - 600 cfm @ 2 1/2 in. w.c., 3/4hp fan, 240-V, 1-Phase, 1/6 hp reel motor, 120-V, 1-Phase
ERWH	Electric Radiant Wall Heater - 1.0 kW, 240-V, 1-Phase
WH	Wall Heater (electric, surface mount) - 1.5 kW, 240-V, 1-Phase
CH	Cabinet Heater (ceiling, electric type) - 200 cfm, 3.0 kW heating, 240-V, 1-Phase, 1/15 hp fan motor, 240-V, 1-Phase
EF	Exhaust Fan (ceiling) - 50 cfm @ 1/4 in. w.c., 120-V, 1-Phase
EW	Electric Water Heater (instant flow type) - 65°F temp. rise @ 0.5 gal/min, 4.8 kW, 240-V, 1-Phase
①	Automatic Day Tank - 50 gal capacity, nominal 2 gal/min filling capacity, 1/3 hp, 120-V, 1-Phase
②	Fuel oil booster pump (loop) - minimum 6.0 gal/hr capacity, 1/8hp, 120-V, 1-Phase
③	Water pump/bladder tank system - 5 gal/min @ 50 psi boost, 1.0 hp, 120-V, 1-Phase, 13 gal tank, min.

THIS DRAWING ACCURATE FOR MECHANICAL WORK ONLY

THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.	DESIGN	BY Thomas Dietsch	CHECKED Jack Wheeler	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	47M5704	CINDER/SALT SHED CONWAY SUMMIT MAINTENANCE STATION MECHANICAL PLAN	SHEET	M-2
	DETAILS	BY Thomas Dietsch	CHECKED Jack Wheeler			POST MILE				
	QUANTITIES	BY Thomas Dietsch	CHECKED Jack Wheeler							

CU 09603  
EA 334201

REVISION DATES (PRELIMINARY STAGE ONLY)

8/15/08	7/16/08	7/16/08	8/19/08	9/22/08	11/2/08
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DISREGARD PRINTS BEARING EARLIER REVISION DATES

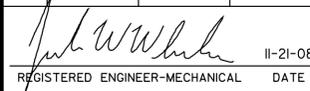
BKW DOS ELEC(1/93)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

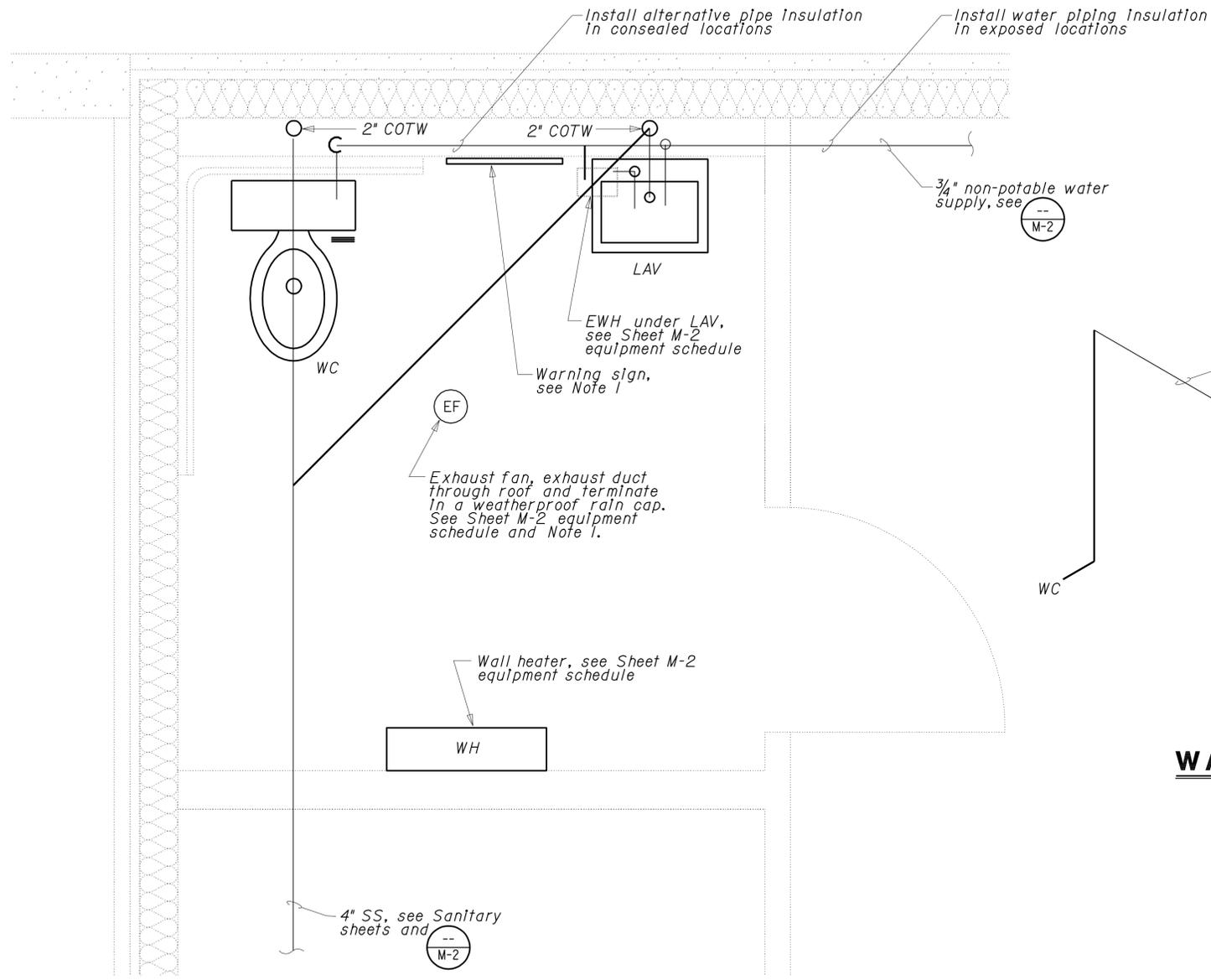
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SHEET OF

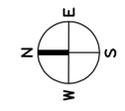
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 PAM EMICK  
 Approval date: 12-1-08

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	5704		35	52
 REGISTERED ENGINEER-MECHANICAL DATE 11-21-08					
6-22-09 PLANS APPROVAL DATE					

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**PLUMBING PLAN**  
1" = 1'-0"

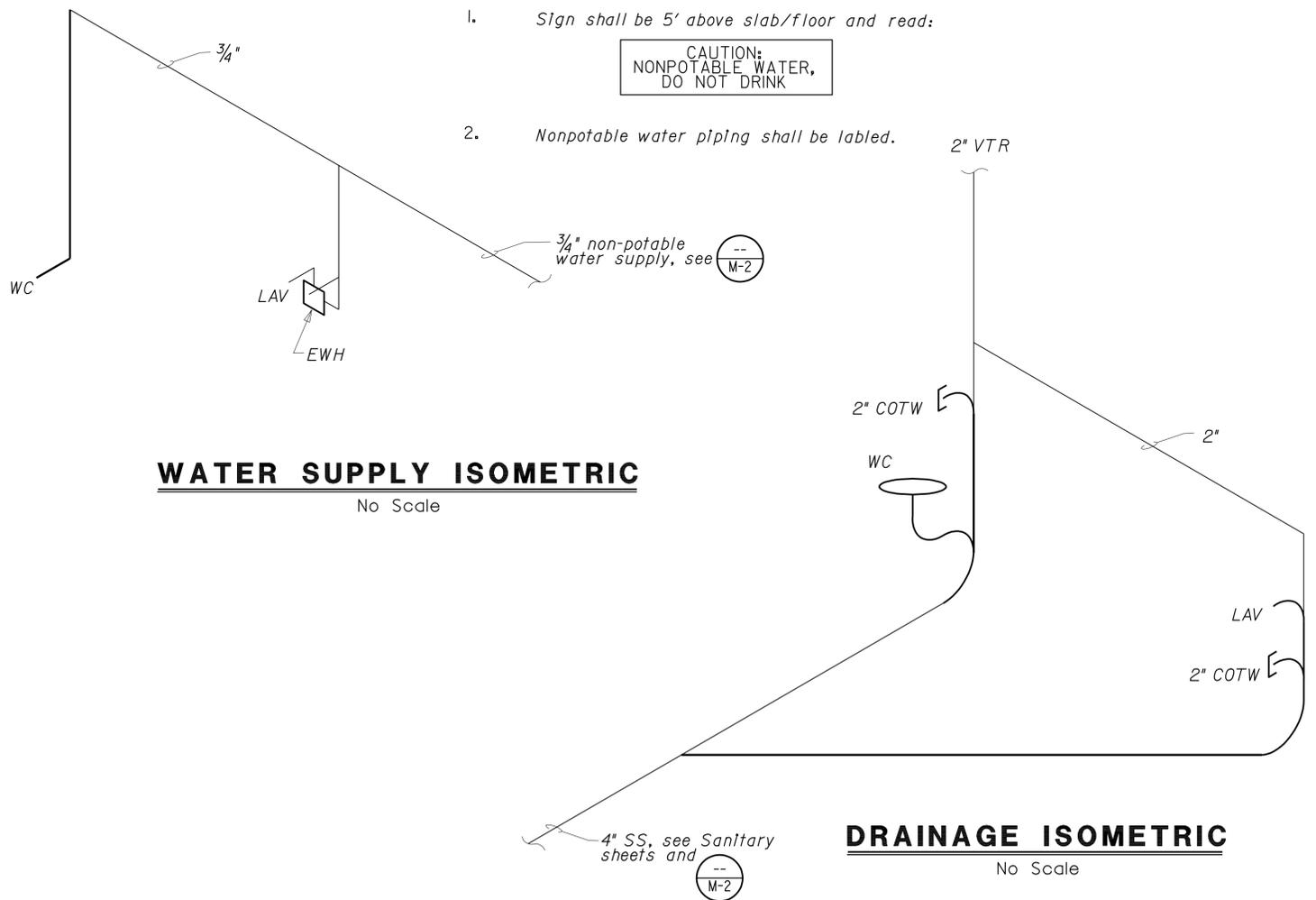


PLUMBING SCHEDULE					
FIXTURE	DRAINAGE ROUGH IN	TRAP SIZE	VENT SIZE	MINIMUM CONNECTIONS	
				COLD WATER	HOT WATER
LAVATORY	2"	1 1/2"	2"	1/2"	1/2"
WATER CLOSET	3"	--	2"	3/4"	--

**NOTES**

- Sign shall be 5' above slab/floor and read:  

CAUTION:  
 NONPOTABLE WATER,  
 DO NOT DRINK
- Nonpotable water piping shall be labeled.



**WATER SUPPLY ISOMETRIC**  
No Scale

**DRAINAGE ISOMETRIC**  
No Scale

THIS DRAWING ACCURATE FOR MECHANICAL WORK ONLY

DESIGN	BY Thomas Dietsch	CHECKED Jack Wheeler
DETAILS	BY Thomas Dietsch	CHECKED Jack Wheeler
QUANTITIES	BY Thomas Dietsch	CHECKED Jack Wheeler

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES  
 ELECTRICAL-MECHANICAL-WATER  
 AND WASTEWATER DESIGN

BRIDGE NO. 47M5704  
 POST MILE

**CINDER/SALT SHED  
 CONWAY SUMMIT MAINTENANCE STATION**

PLUMBING PLAN - RESTROOM

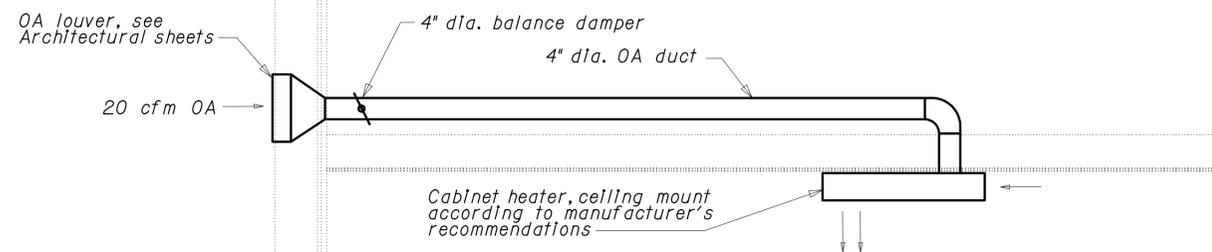
SHEET **M-3** OF

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	5704		36	52
				REGISTERED ENGINEER-MECHANICAL	DATE
				6-22-09	PLANS APPROVAL DATE

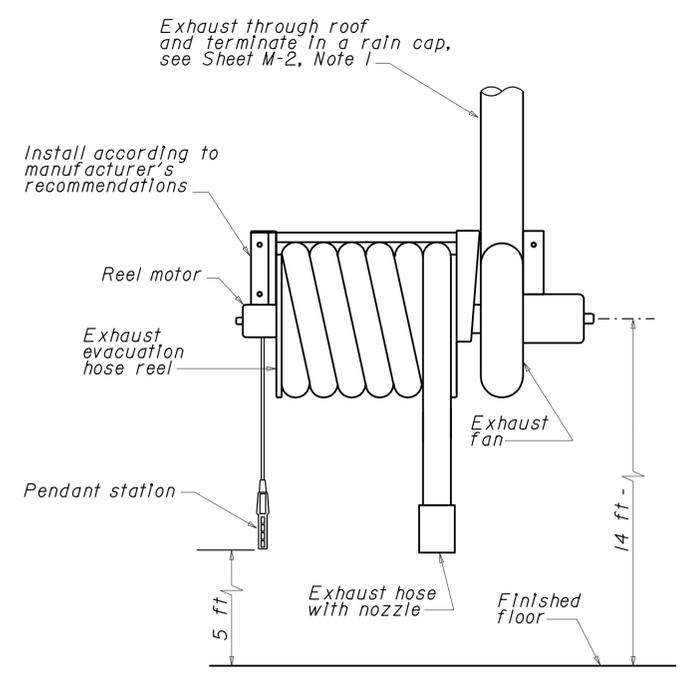
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 Reviewed by: Pam Emick  
 PAM EMICK  
 Approval date: 12-1-08



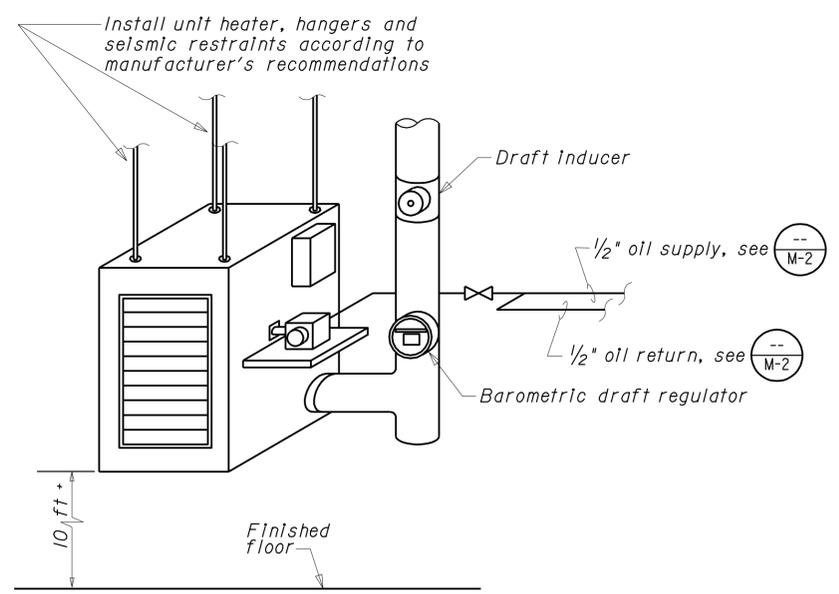
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**1 SECTION**  
 No Scale



**2 EXHAUST EVACUATION HOSE REEL AND FAN**  
 No Scale

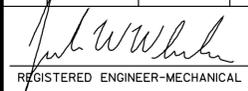


**3 UNIT HEATER - OIL FIRED**  
 No Scale

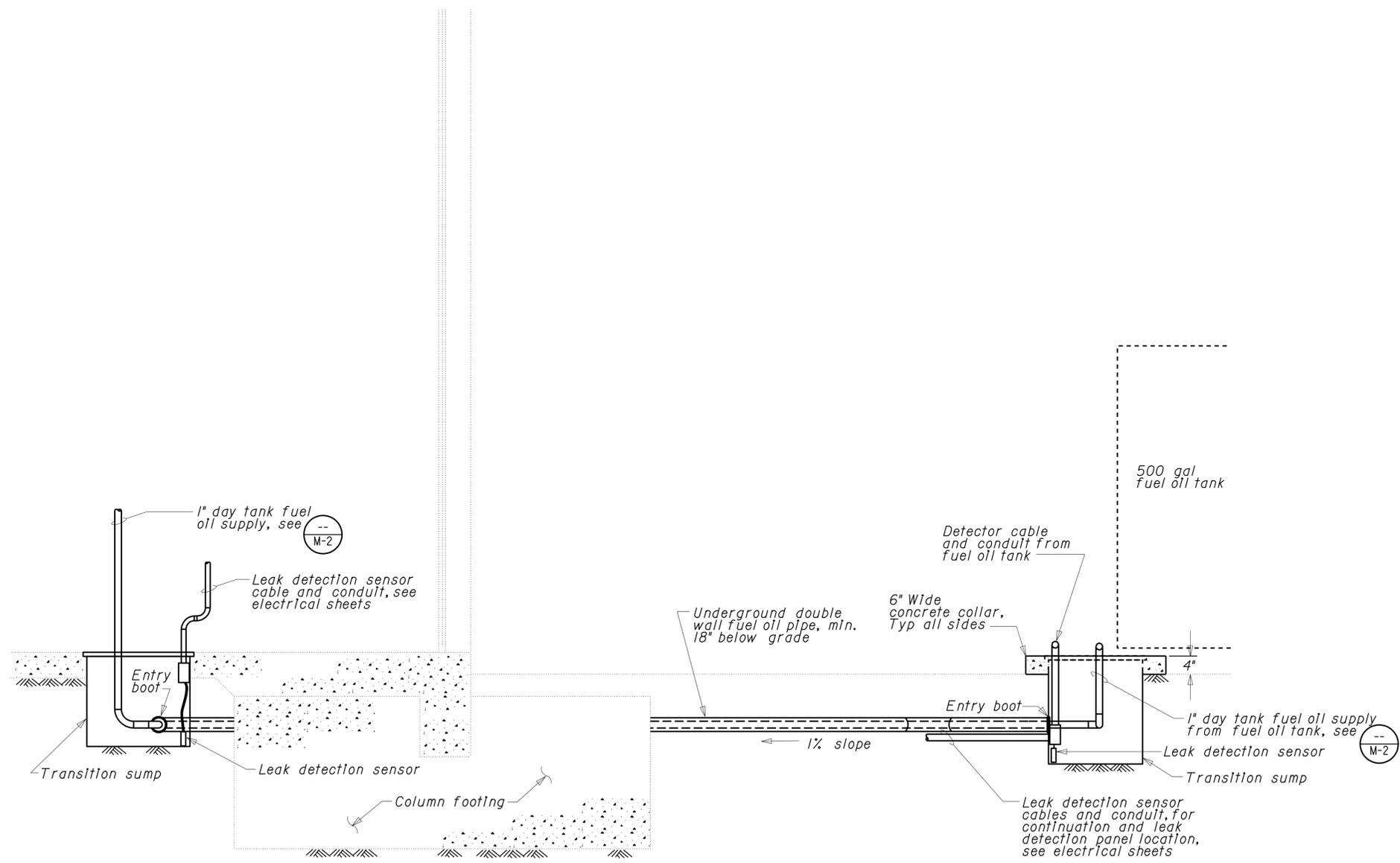
THIS DRAWING ACCURATE FOR MECHANICAL WORK ONLY

DESIGN BY <i>Thomas Dietsch</i> CHECKED <i>Jack Wheeler</i> DETAILS BY <i>Thomas Dietsch</i> CHECKED <i>Jack Wheeler</i> QUANTITIES BY <i>Thomas Dietsch</i> CHECKED <i>Jack Wheeler</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 47M5704 POST MILE	<b>CINDER/SALT SHED          CONWAY SUMMIT MAINTENANCE STATION</b> SECTIONS/DETAILS	SHEET <b>M-4</b> OF
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		CU 09603 EA 334201	DISREGARD PRINTS BEARING EARLIER REVISION DATES REVISION DATES (PRELIMINARY STAGE ONLY) 6/15/08 8/19/08 11/21/08	SHEET OF
	BKW DOS ELEC(1/93)				

**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: Pam Emick  
 PAM EMICK  
 Approval date: 12-1-08

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	5704		37	52
 REGISTERED ENGINEER-MECHANICAL DATE 11-21-08					
6-22-09					
PLANS APPROVAL DATE					

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



**4 SECTION**  
 No Scale

THIS DRAWING ACCURATE FOR MECHANICAL WORK ONLY

DESIGN BY <i>Thomas Dietsch</i> CHECKED <i>Jack Wheeler</i> DETAILS BY <i>Thomas Dietsch</i> CHECKED <i>Jack Wheeler</i> QUANTITIES BY <i>Thomas Dietsch</i> CHECKED <i>Jack Wheeler</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 47M5704 POST MILE	<b>CINDER/SALT SHED          CONWAY SUMMIT MAINTENANCE STATION</b> SECTIONS/DETAILS 2	SHEET <b>M-5</b>	
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		CU 09603 EA 334201	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 6/15/08 8/04/08 8/19/08 9/28/08 11/21/08	SHEET OF
	BKW DOS ELEC(1/93)		VI-1			

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

SYMBOL	DESCRIPTION
	POLE-TOP ELECTROLRIER
	POLE-ARM ELECTROLRIER
<b>CEILING WALL</b>	
	SURFACE FLUORESCENT, METAL HALIDE OR SODIUM VAPOR FIXTURE
	RECESSED FLUORESCENT, METAL HALIDE, OR SODIUM VAPOR FIXTURE
	EXIT LIGHT
	SURFACE OR PENDANT INDIVIDUAL FLUORESCENT FIXTURE
	RECESSED INDIVIDUAL FLUORESCENT FIXTURE
	SURFACE OR PENDANT CONTINUOUS ROW FLUORESCENT FIXTURES
NOTE:	A LOWER CASE LETTER NEAR GRAPHIC LIGHTING FIXTURE SYMBOL DENOTES THAT FIXTURE IS CONTROLLED BY A SIMILARLY MARKED SWITCH, AN ALPHANUMERIC SYMBOL NEAR GRAPHIC LIGHTING FIXTURE SYMBOL DENOTES FIXTURE TYPE, (I=INCANDESCENT, F=FLUORESCENT, MH=METAL HALIDE, H=HIGH PRESSURE SODIUM VAPOR), DESIGN TYPE, NUMBER OF LAMPS AND WATTAGE. EXAMPLE: (4) F 2 - 2 x 32 
	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
S	SINGLE POLE SWITCH
S <sub>2</sub>	DOUBLE POLE SWITCH
S <sub>3</sub>	THREE WAY SWITCH
S <sub>4</sub>	FOUR WAY SWITCH
S <sub>D</sub>	AUTOMATIC DOOR
S <sub>K</sub>	KEY OPERATED SWITCH
S <sub>P</sub>	SWITCH AND PILOT LIGHT
S <sub>MC</sub>	MOMENTARY CONTACT SWITCH
S <sub>RC</sub>	REMOTE CONTROL SWITCH
S <sub>WP</sub>	WEATHERPROOF SWITCH
S <sub>F</sub>	FAN SWITCH
S <sub>L</sub>	LIGHT SWITCH
S <sub>H</sub>	HEATER SWITCH
S <sub>VS</sub>	VARIABLE SPEED MOTOR CONTROL SWITCH
S <sub>CHLF</sub>	TWO SWITCHES, ONE SWITCH FOR LIGHT AND FAN AND TIMER SWITCH FOR HEAT LAMP

SYMBOL	DESCRIPTION
S <sub>1</sub>	OCCUPANCY SENSOR WALL SWITCH, SINGLE LEVEL
S <sub>2</sub>	OCCUPANCY SENSOR WALL SWITCH, BILEVEL
S <sub>M</sub>	MOTION SENSOR SWITCH
ST	MANUAL MOTOR STARTING SWITCH, THERMAL OVERLOAD TYPE
S <sub>HP</sub>	MANUAL MOTOR STARTING SWITCH, WITHOUT OVERLOAD ELEMENT
Ts	TIMER SWITCH
	SWITCH AND SINGLE RECEPTACLE
	SWITCH AND DUPLEX RECEPTACLE
	HAND DRYER NOZZLE
	HAND DRYER
	RADIO OUTLET
	TELEPHONE OUTLET
	SOUND SYSTEM LOUD SPEAKER OUTLET
	PUSHBUTTON
	PUSHBUTTON STATION, NC, WITH LOCKING DEVICE FOR OPEN
	PUSHBUTTON STATION MOTOR CONTROL
	BUZZER
	BELL
	COMBINATION BELL-BUZZER
	THERMOSTAT
	PRESSURE SWITCH
	CONTROL RELAY
	FLOW SWITCH
	PHOTOELECTRIC CELL
	RADIO OUTLET
	TELEVISION OUTLET
	MICROPHONE OUTLET
	FLUSH-MOUNTED PANELBOARD AND CABINET
	SURFACE-MOUNTED PANELBOARD AND CABINET
	LIGHTING PANEL
	POWER PANEL
	COMBINATION LIGHTING AND POWER
	MOTOR CONTROLLER
	DISCONNECT SWITCH
	CONDUIT CONCEALED IN CEILING OR WALL
	CONDUIT CONCEALED IN FLOOR
	CONDUIT EXPOSED
	CROSS-LINES INDICATE NUMBER OF #12 AWG CONDUCTORS. LONGER CROSS-LINE INDICATES #12 AWG (G) FOR EQUIPMENT GROUNDING CONDUCTOR. NO CROSS-LINE INDICATES 2#12 WITH #12 (G) UNLESS OTHERWISE NOTED. ALL CONDUIT 1/2" UNLESS OTHERWISE NOTED.
	HOMERUN TO PANELBOARD, ARROWS INDICATE NUMBER OF CIRCUITS, LETTER DENOTES PANELBOARD, NUMERAL DENOTES CIRCUIT.
	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

SYMBOL	DESCRIPTION
	HEAT DETECTOR
	SMOKE DETECTOR
	MANUAL PULL STATION
	AUDIO/VISUAL ALARM DEVICE
	GLASS BREAK DISCRIMINATOR
	MAGNETIC CONTACT SWITCH-PEDESTRIAN DOOR
	MAGNETIC CONTACT SWITCH-VEHICLE DOOR
	KEYPAD FOR ALARM SYSTEM
	COMBINATION DETECTOR (MICROWAVE/PASSIVE INFRARED)
	PULL BOX-LETTER INDICATES TYPE OF PULL BOX (E-ELECTRICAL, T-TELEPHONE, R-RADIO)
	PULL BOX (TRAFFIC RATED)-LETTER INDICATES TYPE OF PULL BOX (E-ELECTRICAL, T-TELEPHONE, R-RADIO)
	COMBINATION HEAT, LIGHT AND FAN UNIT
	SECTION/ELEVATION LETTER
	SHEET NUMBER
	DETAIL NUMBER
	SHEET NUMBER

**REMODEL WORK**

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

**STANDARD NOTES**

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

**STANDARD PLANS**

DATED MAY, 2006

**GRAPHIC SYMBOLS FOR ELECTRICAL DIAGRAMS**

SYMBOL	DESCRIPTION
	CIRCUIT BREAKER, SINGLE POLE
	CIRCUIT BREAKER, DOUBLE POLE
	CIRCUIT BREAKER, THREE POLE
	CIRCUIT BREAKER, WITH GROUND FAULT CIRCUIT INTERRUPTER
	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

**PROJECT NOTES**

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

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	5704		38	52

*Beatrice Bindu*  
 REGISTERED ELECTRICAL ENGINEER  
 No. E 17240  
 Exp. 6-30-10  
 STATE OF CALIFORNIA  
 ELEC  
 11-20-08 DATE  
 6-22-09 PLANS APPROVAL DATE  
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

**ABBREVIATIONS**

**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: *Pam Emick*  
 PAM EMICK  
 Approval date: 12-1-08

A	AMPERES
A/C	AIR CONDITIONING UNIT
ACS	AIR COMPRESSOR STARTER
AI	ANALOG INPUT
AL	ALARM LIGHT
AO	ANALOG OUTPUT
AVC	AIR VOLUME CONTROLLER
BD	BUILDING DISCONNECT
BRK	BREAKER
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CR	CONTROL RELAY
CSW	CURRENT SWITCH
DI	DIGITAL INPUT
DO	DIGITAL OUTPUT
DP	DUPLEX PLUG RECEPTACLE
DS	DOOR SWITCH
(E)	EXISTING
EEHR	EXHAUST EVACUATION HOSE REEL AND FAN
EF	EXHAUST FAN
ERWH	ELECTRIC RADIANT WALL HEATER
EW	ELECTRIC WATER HEATER
F	FUSE
FL	FAILURE LIGHT
FLA	FLASHER
FLEX	FLEXIBLE CONDUIT
FLS	FLOW SWITCH
FR	FAILURE RESET
FS	FLOAT SWITCH
G	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GRS	GALVANIZED RIGID STEEL
IR	INDUCTION RELAY
JB	JUNCTION BOX
L	LIGHT
LC	LIGHTING CONTACTOR
LCP	LIGHTING CONTROL PANEL
LD	LIGHT DISCONNECT
LP	LIGHT PANEL
LS	LIGHT SWITCH
MB	MAIN BREAKER
MC	METALLIC CONDUIT
MCP	MOTOR CIRCUIT PROTECTOR
MSB	MAIN SWITCHBOARD
MT	EMPTY CONDUIT
(N)	NEW
NIC	NOT IN CONTRACT
NSW	NEUTRAL SWITCHING BREAKER
OL	OVERLOAD
P	POLE
PB	PULL BOX
PB	PUSHBUTTON
PFR	PHASE FAILURE RELAY
PFRD	PHASE FAILURE RELAY DISCONNECT
PEC	PHOTOELECTRIC CELL
PL	PILOT LIGHT
PS	PRESSURE SWITCH
PTS	POWER TRANSFER SWITCH
PVC	POLYVINYL CHLORIDE
RES	RESISTOR
RTB	RADIO TERMINAL CABINET
S	STARTER COIL
SD	SERVICE DISCONNECT
SFR	SEAL FAILURE RELAY
SL	SUMP LIGHT
SFR	STANDBY POWER RECEPTACLE
SS	SELECTOR SWITCH
ST	STARTER
SV	SOLENOID VALVE
T	TRANSFORMER
TB	TERMINAL BLOCK
TC	TIME CLOCK
TGLS	TOGGLE SWITCH
TM	TIME METER
TOT	TOTAL
TS	TIMER SWITCH
TSW	TEST SWITCH
TTB	TELEPHONE TERMINAL CABINET
TYP	TYPICAL
UH	UNIT HEATER
WH	WALL HEATER
WP	WEATHERPROOF

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

PROJECT NAME CONWAY SUMMIT MAINTENANCE STATION	DATE 9/10/08
PROJECT ADDRESS HWY 395 PM 63.5	Not Applicable Building Permit # Not Applicable Checked by/Date Enforcement Agency Use
PRINCIPAL DESIGNER-LIGHTING BEATRICE BINDU	
TELEPHONE (916) 227-8764	
DOCUMENTATION AUTHOR BEATRICE BINDU	TELEPHONE (916) 227-8764

GENERAL INFORMATION			
DATE OF PLANS	9/18/08	BUILDING CONDITIONED FLOOR AREA	1,800 SQ. FT.
CLIMATE ZONE	16		
BUILDING TYPE	<input checked="" type="checkbox"/> NONRESIDENTIAL	<input type="checkbox"/> HIGH RISE RESIDENTIAL	<input type="checkbox"/> HOTEL/MOTEL GUEST
<input checked="" type="checkbox"/> CONDITIONED SPACES	<input checked="" type="checkbox"/> UNCONDITIONED SPACES	<input type="checkbox"/> INDOOR / OUTDOOR SIGNS	
PHASE OF CONSTRUCTION	<input checked="" type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> ADDITION	<input type="checkbox"/> ALTERATION

METHOD OF COMPLIANCE

PERFORMANCE  COMPLETE BUILDING  AREA CATEGORY  TAILORED  COMMON LIGHTING

STATEMENT OF COMPLIANCE

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

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

DOCUMENTATION AUTHOR BEATRICE BINDU	SIGNATURE <i>Beatrice Bindu</i>	DATE 9-10-08
--	------------------------------------	-----------------

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

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

PRINCIPAL LIGHTING DESIGNER-NAME BEATRICE BINDU	SIGNATURE <i>Beatrice Bindu</i>	DATE 9-10-08	LIC.# E 17240
--	------------------------------------	-----------------	------------------

#### LIGHTING MANDATORY MEASURES

Indicate location on plans of Note Block for Mandatory Measures

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

2005 Nonresidential Compliance Forms

January 2006

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

PROJECT NAME CONWAY SUMMIT MAINTENANCE STATION	DATE 9/10/08
INSTALLED INDOOR LIGHTING POWER FOR CONDITIONED AND UNCONDITIONED SPACES	

	INSTALLED WATTS
INSTALLED LIGHTING, CONDITIONED SPACES (From LTG-2-C)	1,843
PORTABLE LIGHTING (From LTG-3-C)	+ 0
LIGHTING CONTROL CREDIT, CONDITIONED SPACES (From LTG-4-C)	- 30
CONDITIONED SPACE ADJUSTED INSTALLED LIGHTING POWER	= 1,813
INSTALLED LIGHTING, UNCONDITIONED SPACES (From LTG-2-C)	720
LIGHTING CONTROL CREDIT, UNCONDITIONED SPACES (From LTG-4-C)	- 0
UNCONDITIONED SPACE ADJUSTED INSTALLED LIGHTING POWER	= 720

ALLOWED INTERIOR LIGHTING POWER FOR CONDITIONED SPACES

- COMPLETE BUILDING METHOD (From LTG-5-C)
- AREA CATEGORY METHOD (From LTG-5-C)
- TAILORED METHOD (From LTG-5-C)

ALLOWED LIGHTING POWER	3,010
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#### ALTERNATE COMPLIANCE

- PERFORMANCE METHOD
- COMMON LIGHTING SYSTEM (From LTG-8-C)

ALLOWED INTERIOR LIGHTING POWER FOR UNCONDITIONED SPACE (From LTG-5-C)  Watts

#### MANDATORY LIGHTING MEASURES FOR INDOOR AND DAYLIT AREAS

##### MANDATORY INDOOR AND DAYLIGHTING AUTOMATIC CONTROLS

CONTROL LOCATION (Room #, Area #, or Description)	CONTROL IDENTIFICATION	CONTROL TYPE (Auto Time Switch, Dimming, Photosensor, etc.)	SPACE CONTROLLED (Lists the location of controlled lights)	If Control is for Daylighting	NOTE TO FIELD
STORAGE	S <sub>1</sub> <sup>0</sup>	WALL MOUNTED OCCUPANCY SENSOR	STORAGE		
RESTROOM	S <sub>1</sub> <sup>0</sup>	WALL MOUNTED OCCUPANCY SENSOR	RESTROOM		
TOOL TRUCK BAY	TC	TIME CLOCK	TOOL TRUCK BAY		
SNOW BLOWER BAY	TC	TIME CLOCK	SNOW BLOWER BAY		

2005 Nonresidential Compliance Forms

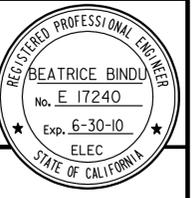
January 2006

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	5704		39	52

*Beatrice Bindu*  
REGISTERED ELECTRICAL ENGINEER  
DATE 11-20-08

6-22-09  
PLANS APPROVAL DATE

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



CALIFORNIA STATE FIRE MARSHAL APPROVED

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

Reviewed by: *Pam Emick*  
PAM EMICK  
Approval date: 12-1-08

DESIGN	BY <i>Beatrice Bindu</i>	CHECKED <i>Tech Ngov</i>
DETAILS	BY <i>Kathl Andreasen</i>	CHECKED <i>Beatrice Bindu</i>
QUANTITIES	BY <i>Beatrice Bindu</i>	CHECKED <i>Tech Ngov</i>

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO. 47M5704  
POST MILE

CINDER / SALT SHED  
CONWAY SUMMIT MAINTENANCE STATION

TITLE 24 COMPLIANCE

SHEET EE0-1

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

PROJECT NAME CONWAY SUMMIT MAINTENANCE STATION		DATE 9/10/08
PROJECT ADDRESS HWY 395 PM 63.5		Not Applicable Building Permit # Not Applicable Checked by/Date Enforcement Agency Use
PRINCIPAL DESIGNER-LIGHTING BEATRICE BINDU	TELEPHONE (916) 227-8764	
DOCUMENTATION AUTHOR BEATRICE BINDU	TELEPHONE (916) 227-8764	

<b>GENERAL INFORMATION</b>	
DATE OF PLANS 9/18/08	OUTDOOR LIGHTING ZONE (✓ One) <input type="checkbox"/> LZ1 <input type="checkbox"/> LZ2 <input checked="" type="checkbox"/> LZ3 <input type="checkbox"/> LZ4
FUNCTION TYPE <input checked="" type="checkbox"/> OUTDOOR LIGHTING <input type="checkbox"/> OUTDOOR SIGNS <input type="checkbox"/> INDOOR SIGNS	
PHASE OF CONSTRUCTION <input checked="" type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> ADDITIONS <input type="checkbox"/> ALTERATIONS	

### STATEMENT OF COMPLIANCE

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

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

DOCUMENTATION AUTHOR BEATRICE BINDU	SIGNATURE <i>Beatrice Bindu</i>	DATE 9-10-08
--	------------------------------------	-----------------

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

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

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

PRINCIPAL LIGHTING DESIGNER-NAME BEATRICE BINDU	SIGNATURE <i>Beatrice Bindu</i>	DATE 9-10-08	LIC.# E 17240
--	------------------------------------	-----------------	------------------

### INSTRUCTIONS TO APPLICANT OUTDOOR LIGHTING COMPLIANCE & WORKSHEETS (Check box if worksheet is included)

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

- |   |          |  |
|---|----------|--|
| <input checked="" type="checkbox"/>   | OLTG-1-C | Certificate of Compliance. Required on plans for all submittals for outdoor lighting. Part 2 of 2 may be incorporated in schedules on the plans. |
| Either LTG-1-C or OLTG-1-C may be used for signs as follows:<br>1. Use LTG-1-C if the project consists solely of indoor signs.<br>2. Use LTG-1-C if the project consists of indoor lighting, and outdoor or indoor signs, but no other outdoor lighting.<br>3. Use OLTG-1-C if the project consists solely of outdoor signs.<br>4. Use OLTG-1-C if the project consists of outdoor lighting, and indoor or outdoor signs, but no other indoor lighting. |          |  |
| <input type="checkbox"/>  | OLTG-2-C | LIGHTING COMPLIANCE SUMMARY. Applicable Parts required for ALL outdoor lighting allowances (Except for Signs)                                    |
| <input type="checkbox"/>  | OLTG-3-C | AREA CALCULATIONS WORKSHEETS. Applicable parts required for all outdoor area calculations.   |
| <input type="checkbox"/>  | OLTG-4-C | SIGN LIGHTING COMPLIANCE. Required for all internally and externally illuminated signs, for both indoor and outdoor signs.                       |

2005 Nonresidential Compliance Forms

January 2006

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

PROJECT NAME CONWAY SUMMIT MAINTENANCE STATION
---

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

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

### Mandatory Measures on Plans Show that Outdoor Lighting Meets Outdoor Lighting Controls and Equipment

Indicate location on plans of Note Block for Mandatory Measure

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

### MANDATORY AUTOMATIC CONTROLS

CONTROL LOCATION	CONTROL IDENTIFICATION	CONTROL TYPE Auto Time Switch/ Photosensor, etc	AREA CONTROLLED	NOTE TO FIELD
BUILDING NORTH WALL	PEC	PHOTOSENSOR	BUILDING EXTERIOR	

2005 Nonresidential Compliance Forms

January 2006

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	5704		40	52

<i>Beatrice Bindu</i>	11-20-08
REGISTERED ELECTRICAL ENGINEER	DATE
	
6-22-09	
PLANS APPROVAL DATE	

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

**CALIFORNIA STATE FIRE MARSHAL APPROVED**

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

Reviewed by: *Pam Emick*  
PAM EMICK  
Approval date: 12-1-08

DESIGN	BY <i>Beatrice Bindu</i>	CHECKED <i>Tech Ngov</i>
DETAILS	BY <i>Kathl Andreasen</i>	CHECKED <i>Beatrice Bindu</i>
QUANTITIES	BY <i>Beatrice Bindu</i>	CHECKED <i>Tech Ngov</i>

STATE OF <b>CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 47M5704 POST MILE
---	---	------------------------------------

<b>CINDER / SALT SHED CONWAY SUMMIT MAINTENANCE STATION</b>	SHEET <b>EE0-2</b>
TITLE 24 COMPLIANCE	

**GENERAL NOTES:**

For the details regarding demolition of Cinder Shed, see Architectural drawings.

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	5704		41	52

*Beatrice Bindu*  
 REGISTERED ELECTRICAL ENGINEER  
 DATE 11-20-08  
 6-22-09  
 PLANS APPROVAL DATE

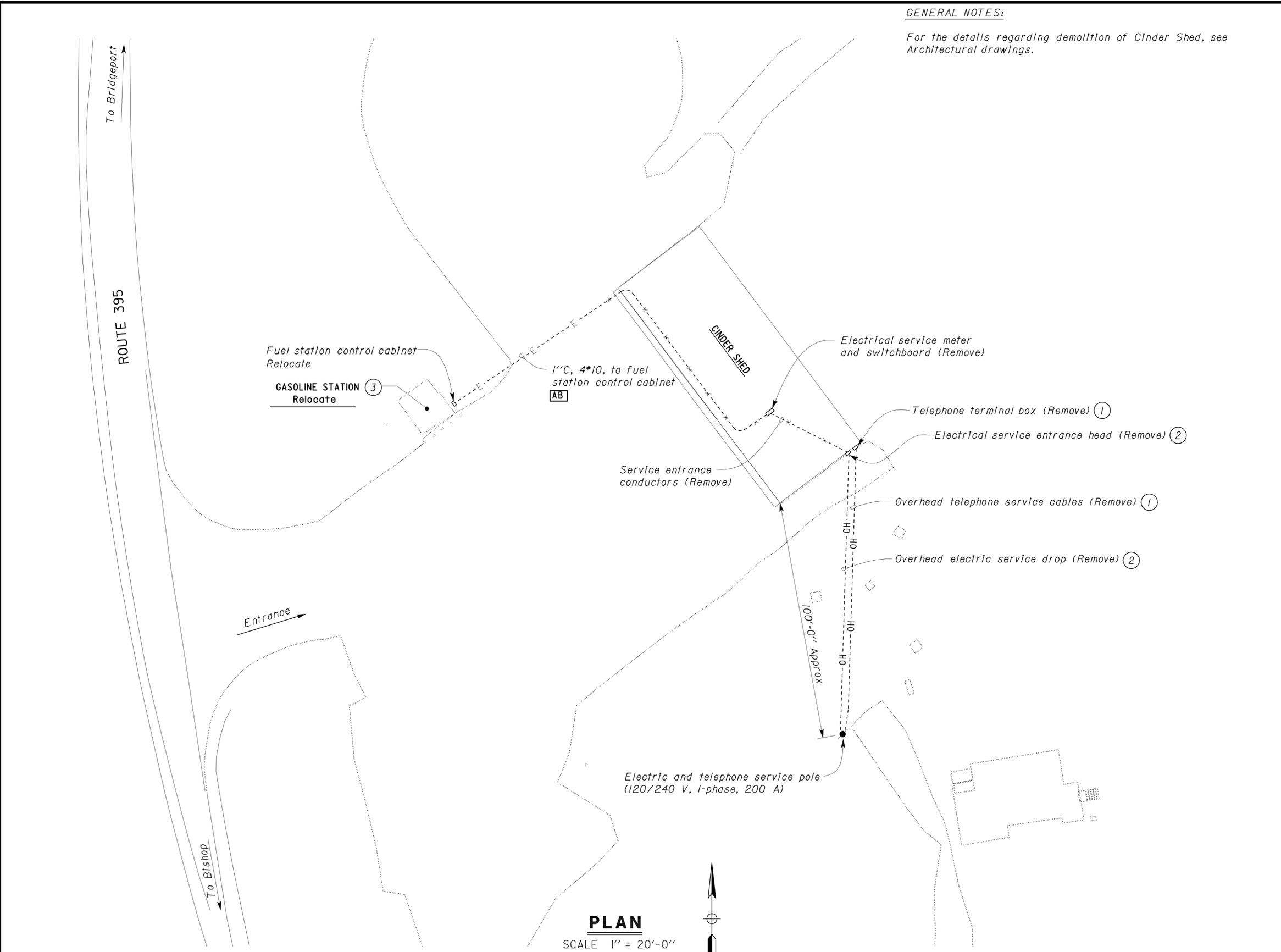
REGISTERED PROFESSIONAL ENGINEER  
 BEATRICE BINDU  
 No. E 17240  
 Exp. 6-30-10  
 ELEC  
 STATE OF CALIFORNIA

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**NOTES:**

- ① Coordinate with Telephone Company for the removal of overhead telephone service.
- ② Coordinate with Power Company for the removal of overhead service drop and service meter.
- ③ For new location, see architectural plans.

**CALIFORNIA STATE FIRE MARSHAL APPROVED**  
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 Reviewed by: *Pam Emick*  
 PAM EMICK  
 Approval date: 12-1-08



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

THIS DRAWING IS ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN SUPERVISOR <i>Paul Schreff</i> DESIGN ENGINEER <i>Mark Chap</i>	DESIGN	BY <i>Beatrice Bindu</i>	CHECKED <i>Tech Ngov</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	47M5704	<b>CINDER / SALT SHED          CONWAY SUMMIT MAINTENANCE STATION</b>	SHEET <b>EE0-3</b>		
	DETAILS	BY <i>Kathl Andreasen</i>	CHECKED <i>Beatrice Bindu</i>			POST MILE					
QUANTITIES	BY <i>Beatrice Bindu</i>	CHECKED <i>Tech Ngov</i>									
DOES SD Imperial Rev. 1/07	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3	CU 09603 EA 334201	DISREGARD PRINTS BEARING EARLIER REVISION DATES				
							REVISION DATES (PRELIMINARY STAGE ONLY)			SHEET OF	
							4/7/08	4/7/08	6/7/08	11/20/08	

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	5704		42	52

<i>Beatrice Bindu</i>		11-20-08
REGISTERED ELECTRICAL ENGINEER	DATE	

6-22-09
PLANS APPROVAL DATE

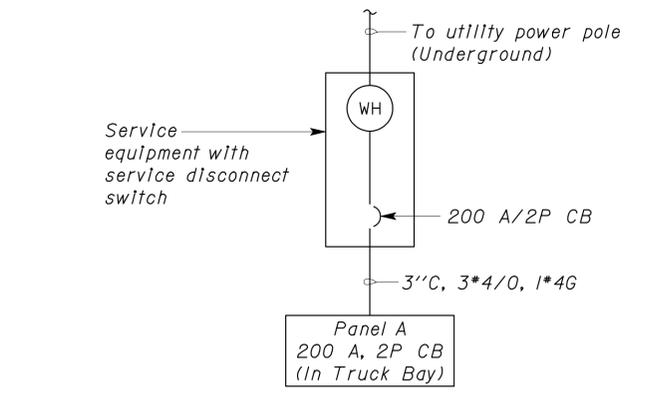
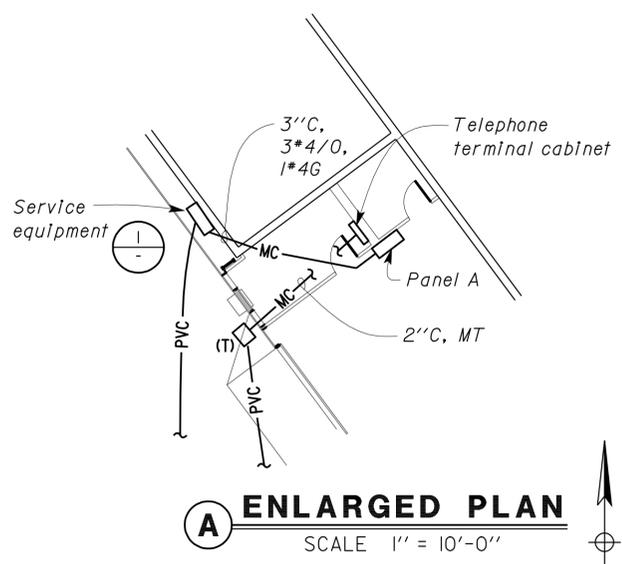
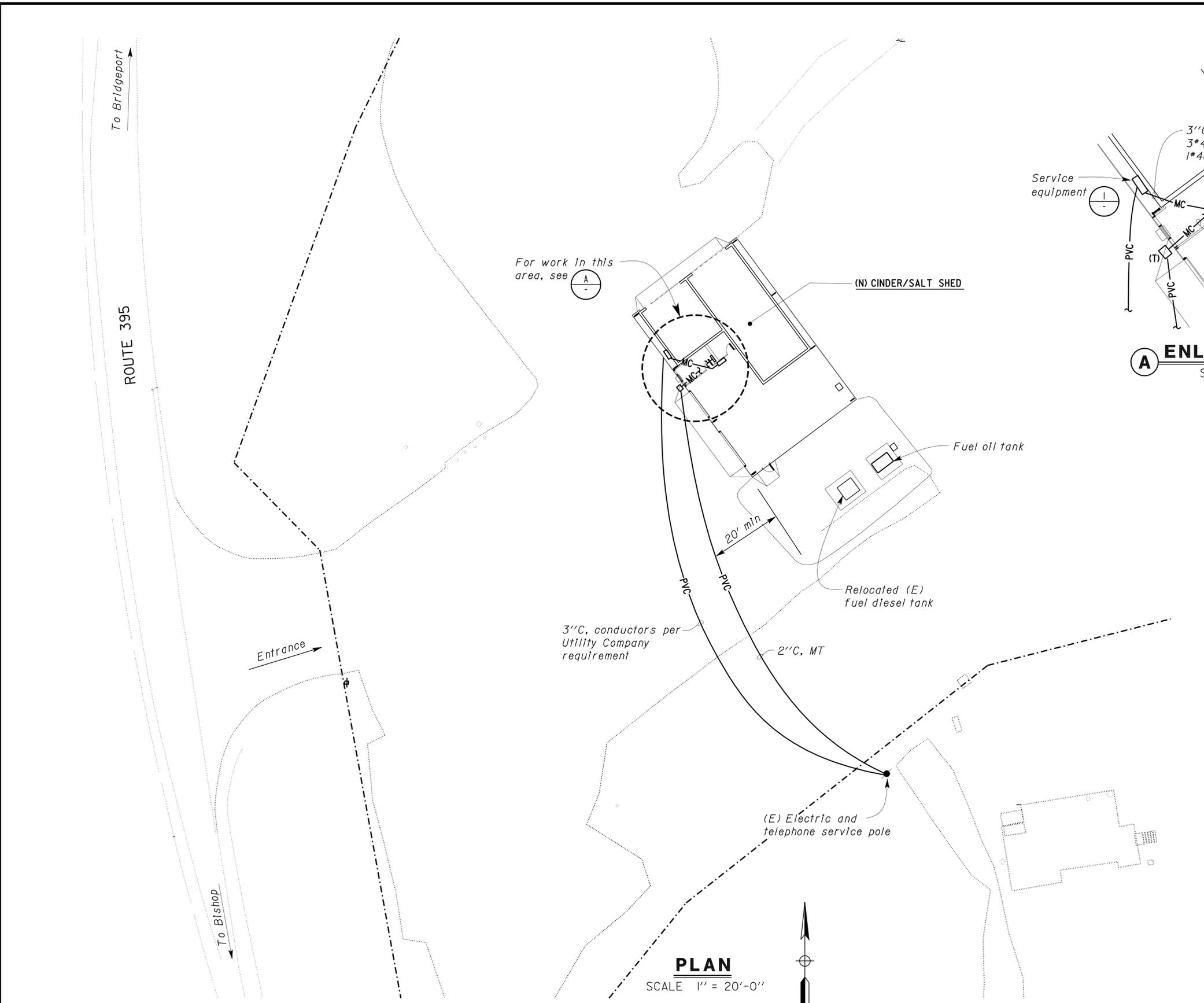
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**CALIFORNIA STATE FIRE MARSHAL APPROVED**

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Reviewed by: *Pam Emick*  
PAM EMICK  
Approval date: 12-1-08



THIS DRAWING IS ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN BY <i>Beatrice Bindu</i> CHECKED <i>Tech Ngov</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	CINDER/SALT SHED CONWAY SUMMIT MAINTENANCE STATION	SHEET EEO-4
			47M5704		
DETAILS BY <i>Kathl Andreasen</i> CHECKED <i>Beatrice Bindu</i>			POST MILE	MODIFIED SITE PLAN	
QUANTITIES BY <i>Beatrice Bindu</i> CHECKED <i>Tech Ngov</i>					
DOES SD Imperial Rev. 1/07	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 09603 EA 334201	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
	0 1 2 3			4/14/08 4/14/08 5/28/08 7/14/08 8/8/08 11/12/08 11/20/08	

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**GENERAL NOTES:**

- A. The location of overhead door operator is shown arbitrarily only. Exact location depends on unit furnished. Contractor shall provide any additional conduits and wires not shown but necessary for the automatic operation of the door.
- B. For exact location and additional details of unit heaters, thermostats, vehicle exhaust hose reel, and other mechanical items, see Mechanical plans.
- C. All conduits inside the Sand Storage and Salt Storage shall be non-metallic, Schedule 40, rigid PVC conduit.
- D. All Junction boxes inside Sand Storage and Salt Storage shall be weatherproof type, non-metallic box.

**NOTES:**

- ① Ground rebar, see (4/ST-2).
- ② 1" C, 1#4G, with grounding hub and clamp.
- ③ For wiring, see (3/EEI-4).
- ④ For wiring, see (4/EEI-4).
- ⑤ For details see Mechanical plans.

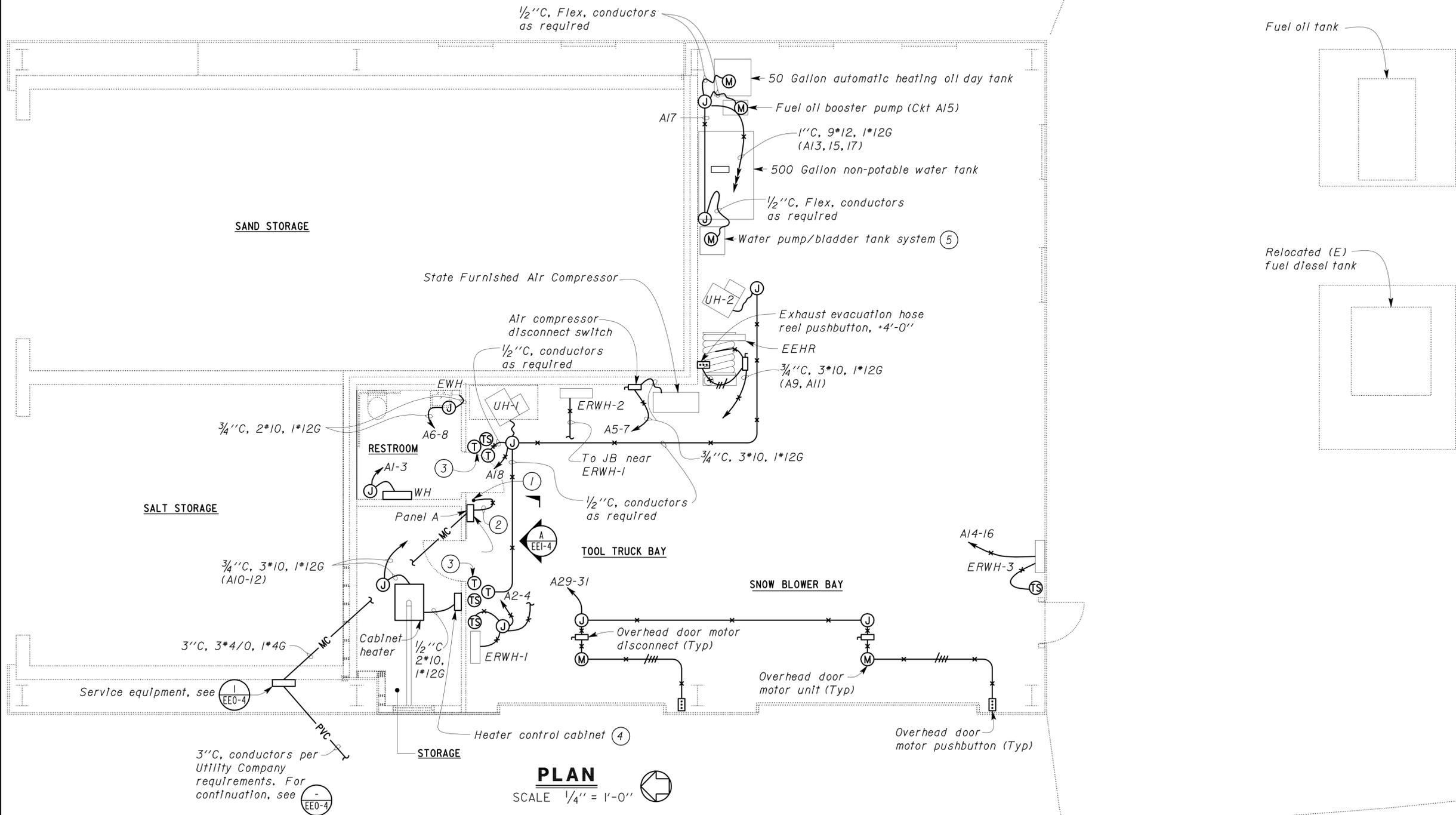
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	5704		43	52

  
 REGISTERED ELECTRICAL ENGINEER DATE 11-20-08  
 6-22-09  
 PLANS APPROVAL DATE  
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Reviewed by: Pam Emick  
PAM EMICK  
Approval date: 12-1-08



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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">DESIGN</td> <td style="width: 15%;">BY <u>Beatrice Bindu</u></td> <td style="width: 15%;">CHECKED <u>Tech Ngov</u></td> </tr> <tr> <td>DETAILS</td> <td>BY <u>Kathl Andreasen</u></td> <td>CHECKED <u>Beatrice Bindu</u></td> </tr> <tr> <td>QUANTITIES</td> <td>BY <u>Beatrice Bindu</u></td> <td>CHECKED <u>Tech Ngov</u></td> </tr> </table>	DESIGN	BY <u>Beatrice Bindu</u>	CHECKED <u>Tech Ngov</u>	DETAILS	BY <u>Kathl Andreasen</u>	CHECKED <u>Beatrice Bindu</u>	QUANTITIES	BY <u>Beatrice Bindu</u>	CHECKED <u>Tech Ngov</u>	<p>STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN</td> <td style="width: 50%;">BRIDGE NO. 47M5704</td> </tr> <tr> <td colspan="2">POST MILE</td> </tr> </table>	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 47M5704	POST MILE		<p><b>CINDER / SALT SHED CONWAY SUMMIT MAINTENANCE STATION</b></p> <p>POWER PLAN I</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">SHEET <b>EE1-1</b></td> <td style="width: 50%;">OF</td> </tr> </table>	SHEET <b>EE1-1</b>	OF
DESIGN	BY <u>Beatrice Bindu</u>	CHECKED <u>Tech Ngov</u>																	
DETAILS	BY <u>Kathl Andreasen</u>	CHECKED <u>Beatrice Bindu</u>																	
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DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 47M5704																		
POST MILE																			
SHEET <b>EE1-1</b>	OF																		
DOES SD Imperial Rev.1/07	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 09603 EA 334201	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF														

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**GENERAL NOTES:**

- A. For the exact location and details of the heating oil tank, transition sump, and leak detection system, see Mechanical plans.
- B. All conduits inside the Sand Storage and Salt Storage shall be non-metallic, Schedule 40, rigid PVC conduit.
- C. All junction boxes inside Sand Storage and Salt Storage shall be weatherproof type, non-metallic box.

**NOTES:**

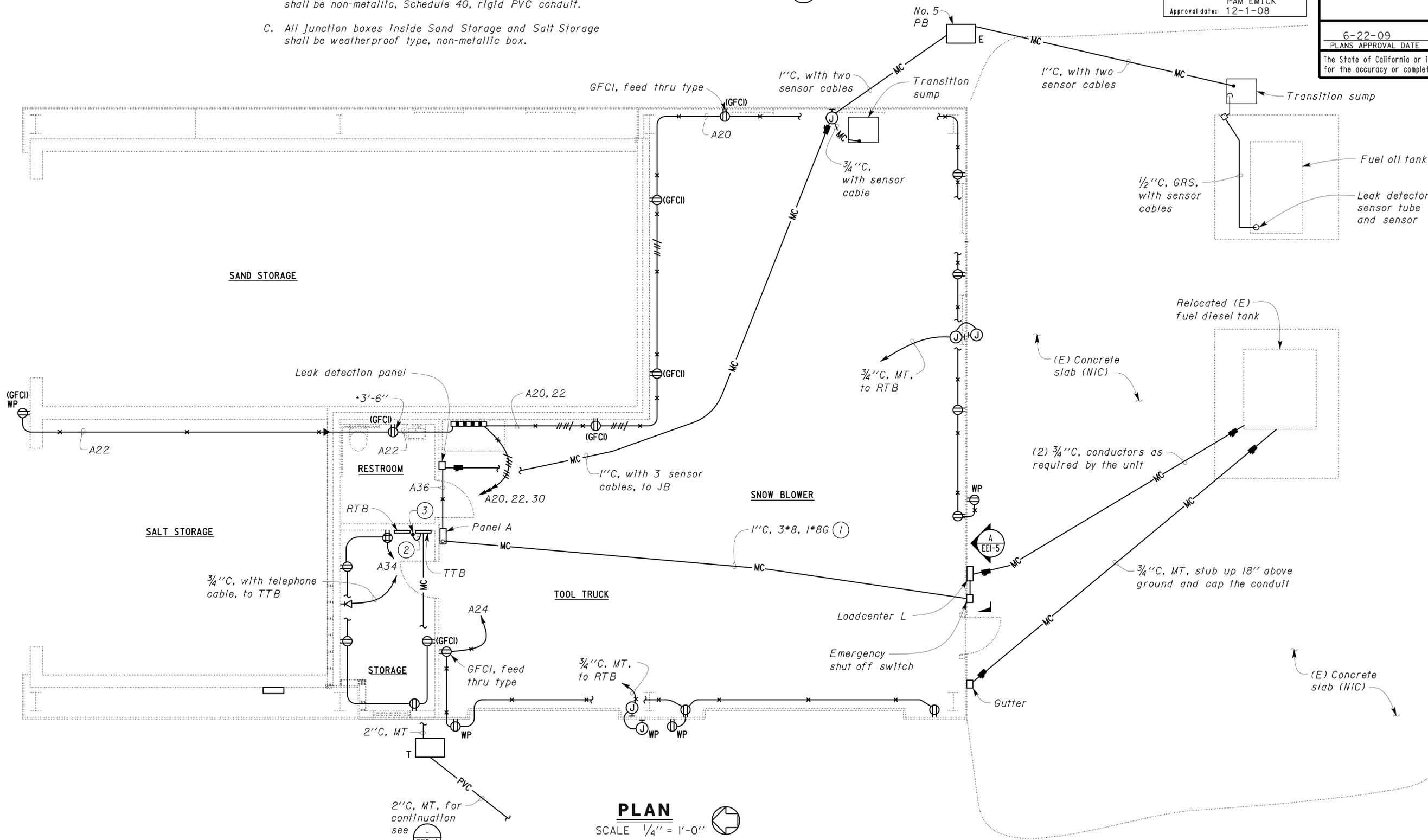
- ① Install conduit seal at both ends of the conduits.
- ② 1" C, 1\*4G, with grounding hub and clamp.
- ③ Ground bar, see 

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 PAM EMICK  
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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	5704		44	52

  
 REGISTERED ELECTRICAL ENGINEER DATE 11-20-08  
 6-22-09  
 PLANS APPROVAL DATE  
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REGISTERED PROFESSIONAL ENGINEER  
 BEATRICE BINDU  
 No. E 17240  
 Exp. 6-30-10  
 ELEC  
 STATE OF CALIFORNIA



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

THIS DRAWING IS ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN	BY <u>Beatrice Bindu</u>	CHECKED <u>Tech Ngov</u>
DETAILS	BY <u>Kathl Andreasen</u>	CHECKED <u>Beatrice Bindu</u>
QUANTITIES	BY <u>Beatrice Bindu</u>	CHECKED <u>Tech Ngov</u>

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO.	47M5704	<b>CINDER / SALT SHED CONWAY SUMMIT MAINTENANCE STATION</b>
POST MILE		
POWER PLAN 2 AND COMMUNICATION PLAN		SHEET <b>EE1-2</b>

DOES SD Imperial Rev. 1/07

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

CU 09603  
 EA 334201

DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
	4/16/08 6/17/08 11/17/08 11/20/08	

**GENERAL NOTES:**

- A. All conduits inside the Sand Storage and Salt Storage shall be non-metallic, Schedule 40, rigid PVC conduit.
- B. All junction boxes inside Sand Storage and Salt Storage shall be weatherproof type, non-metallic box.

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 PAM EMICK  
 Approval date: 12-1-08

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	5704		45	52

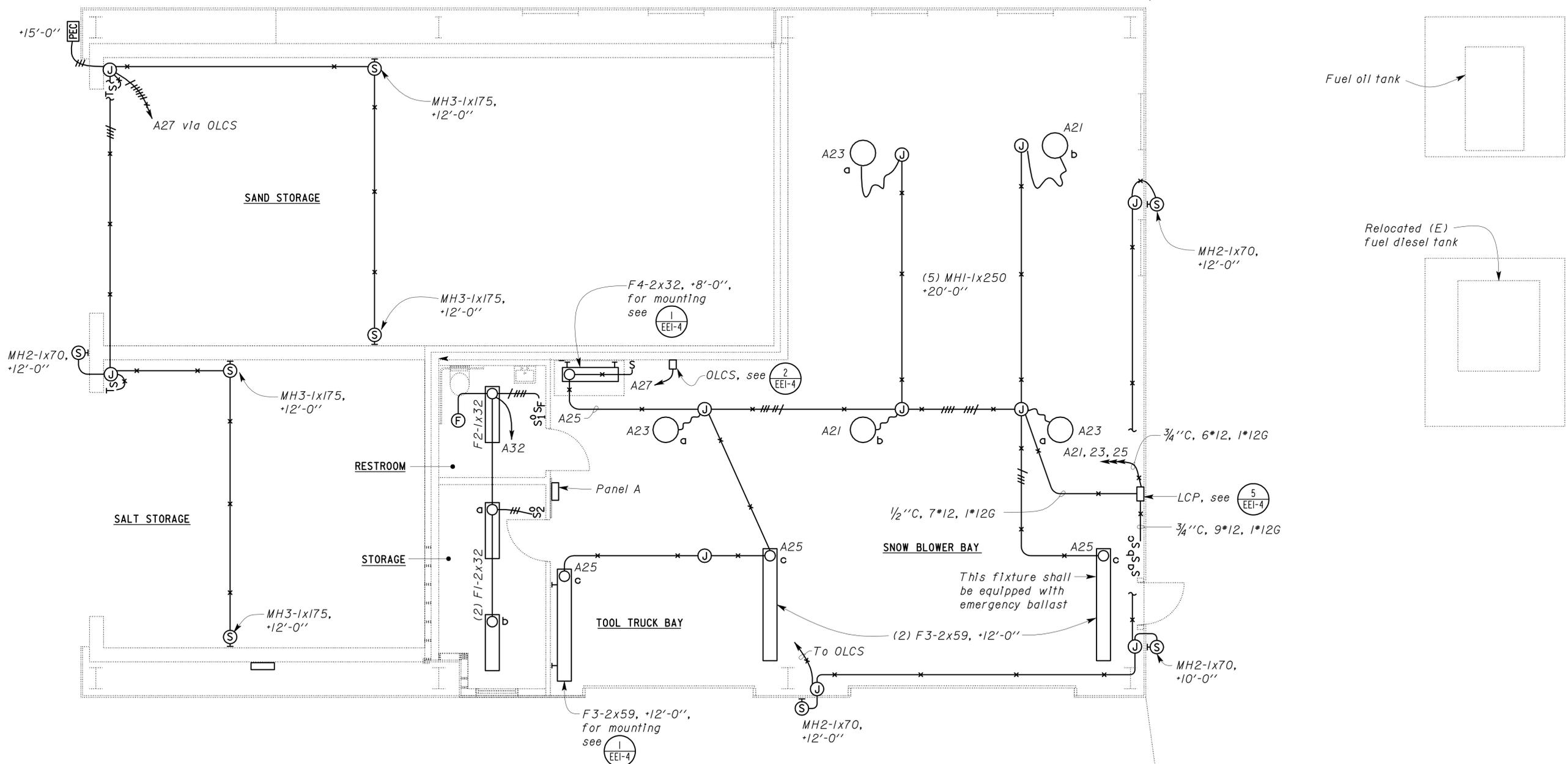
  

<i>Beatrice Bindu</i>	11-20-08
REGISTERED ELECTRICAL ENGINEER	DATE

6-22-09
PLANS APPROVAL DATE

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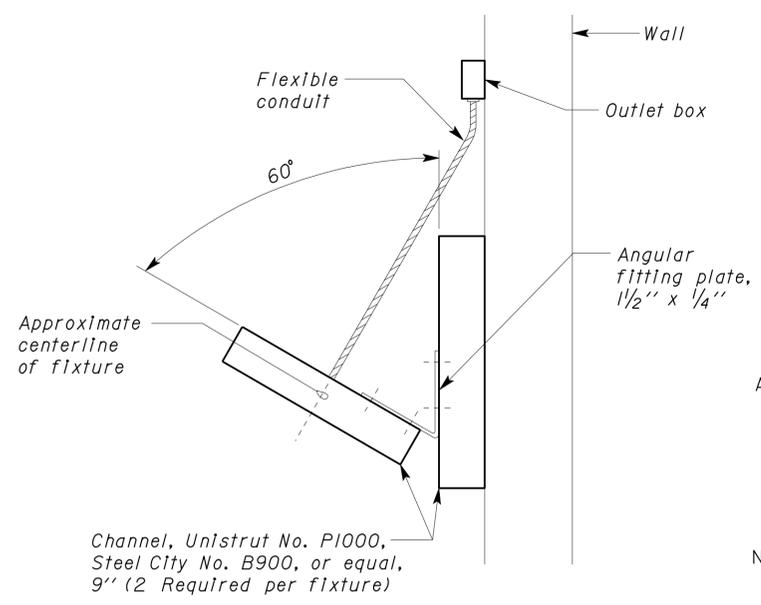


**PLAN**  
 SCALE 1/4" = 1'-0"

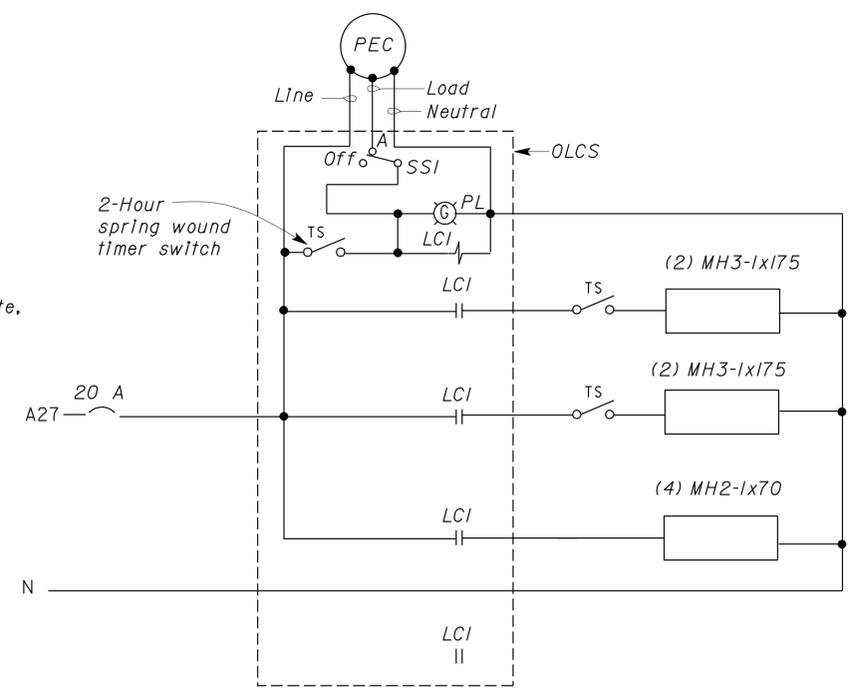
THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN BY <u>Beatrice Bindu</u> CHECKED <u>Tech Ngov</u>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 47M5704	<b>CINDER / SALT SHED CONWAY SUMMIT MAINTENANCE STATION</b>	SHEET EE1-3
			POST MILE		LIGHTING PLAN
			CU 09603 EA 334201		

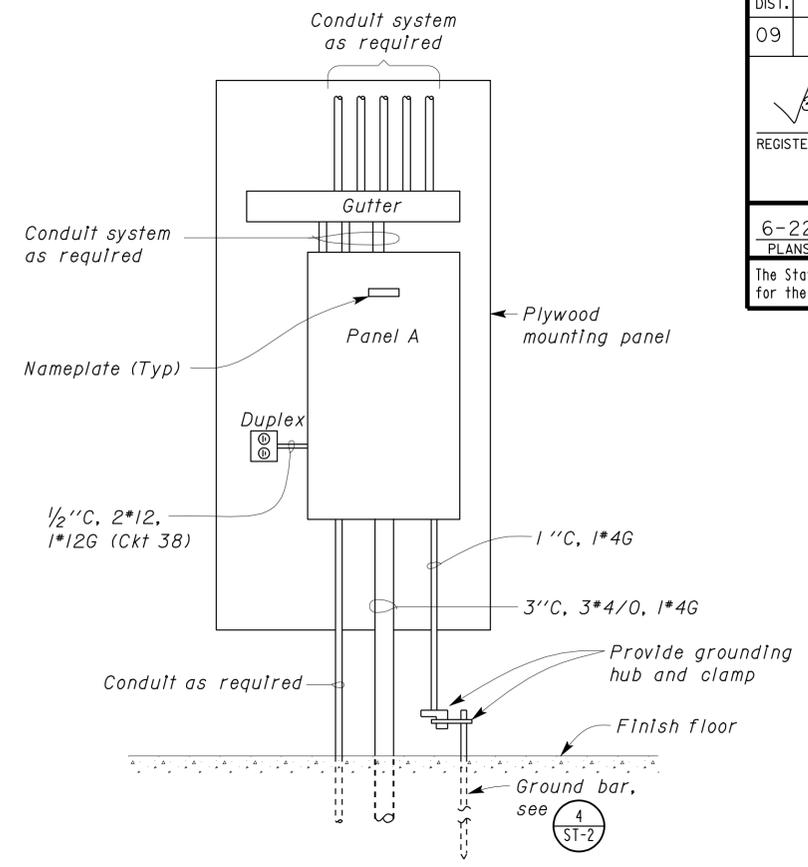
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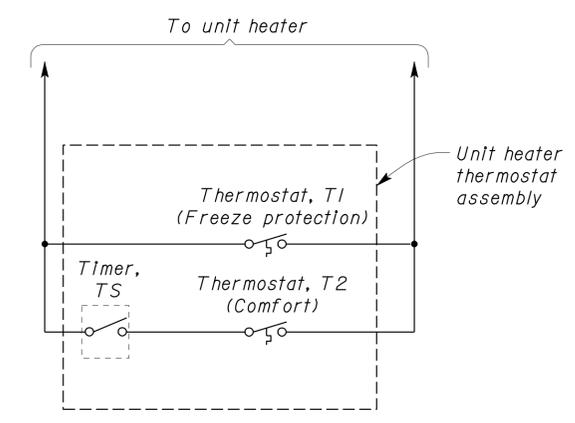
**1** FIXTURE MOUNTING DETAIL  
NO SCALE



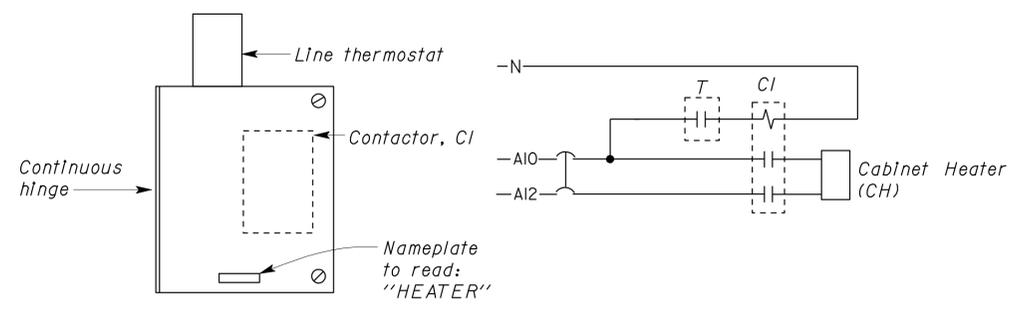
**2** OUTSIDE LIGHT CONTROL STATION (OLCS) CONTROL DIAGRAM  
NO SCALE



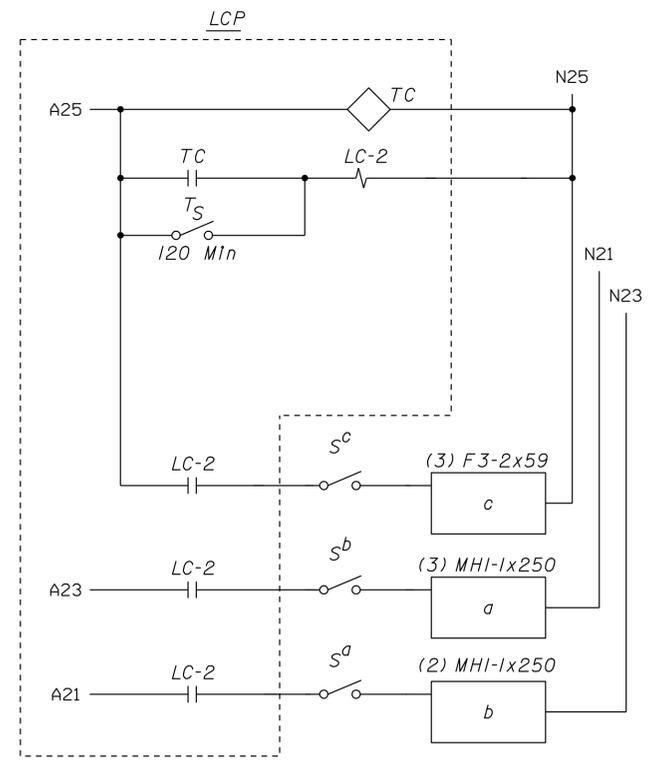
**A** ELEVATION  
SCALE 1" = 1'-0"



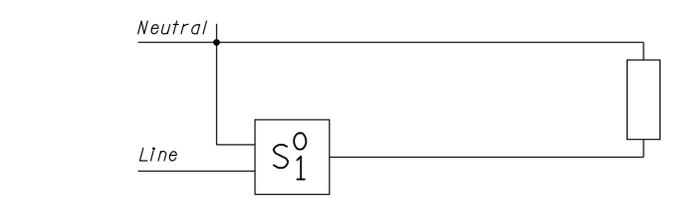
**3** UNIT HEATER WIRING DIAGRAM  
NO SCALE



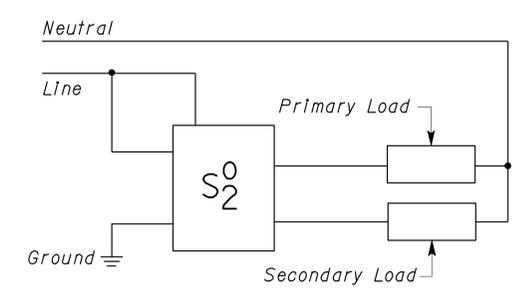
**4** HEATER CONTROL CABINET AND WIRING  
NO SCALE



**5** LIGHTING CONTROL PANEL LCP  
NO SCALE



**6** WALL SWITCH OCCUPANCY SENSOR (SINGLE-LEVEL)



**7** WALL SWITCH OCCUPANCY SENSOR (BI-LEVEL)

MAIN: 200 AMPERE CIRCUIT BREAKER  
VOLTS: 120/240 V, 1Ø, 3-WIRE

FEEDER SIZE: 3\*4/0  
LOCATION: TOOL TRUCK BAY

PANEL A

DESCRIPTION	AMPERES		BRK	CKT	A	B	CKT	BRK	AMPERES		DESCRIPTION
	A	B							A	B	
WALL HEATER	7	7	20/2	1			2	20/2	4	4	ELECTRIC RADIANT WALL HEATER
AIR COMPRESSOR	28	28	40/2	5			6	30/2	20	20	ELECTRIC WATER HEATER
EXHAUST EVACUATION HOSE REEL & FAN	8	8	20/2	9			10	30/2	15	15	CABINET HEATER
OIL PUMP	4		20/1	13			14	20/2	4	4	ELECTRIC RADIANT WALL HEATER
BOOSTER PUMP		4	20/1	15			16	20/2			
WATER PUMP	16		30/1	17			18	20/1	2		UNIT HEATERS
SPARE		---	20/1	19			20	20/1		11	RECEPT - SNOW BLOWER (SOUTH)
LIGHTS - TOOL TRUCK SNOW BLOWER	9		20/1	21			22	20/1	6		RECEPT - TOOL TRUCK (EAST), SNOW BLOWER (NORTH)
LIGHTS - TOOL TRUCK, SNOW BLOWER		8	20/1	23			24	20/1	8		RECEPT - TOOL TRUCK (NORTH), SNOW BLOWER (WEST)
LIGHTS - TOOL TRUCK, SNOW BLOWER	3		20/1	25			26	40/2	20		FUEL ISLAND
LIGHTS-OUTSIDE, SAND/SALT&STORAGE		8	20/1	27			28	40/2	20		FUEL ISLAND
OVERHEAD DOORS	10		15/2	29			30	20/*	6		MULTIOUTLET
		10		31			32	20/1	4		LIGHTS - STORAGE, RESTROOM
SPARE	---	---	30/2	33			34	20/1	8		RECEPT - STORAGE, RESTROOM
		---		35			36	20/1	6		LEAK DETECTION SYSTEM
SPACE	---	---		37			38	20/1	2		RECEPTACLE
		---		39			40	20/1	---	---	SPARE
SPACE	---	---		41			42	---	---	---	SPARE

MAIN: 40 AMPERE CIRCUIT BREAKER  
VOLTS: 120/240 V, 1Ø, 3-WIRE

LOADCENTER F

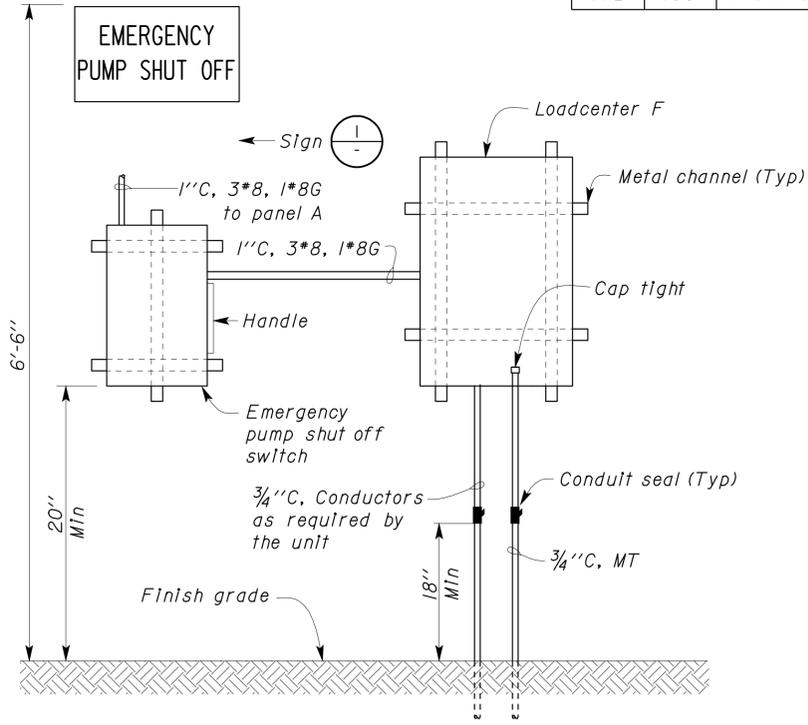
DESCRIPTION	AMPERES		BRK	CKT	A	B	CKT	BRK	AMPERES		DESCRIPTION
	A	B							A	B	
DISPENSER 1	5		20/2	1			2	20/2	---	---	SPARE
SPACE	---	---		3			4		---	---	
SPACE	---	---		5			6		---	---	SPACE
				7			8		---	---	
SPACE	---	---		9			10		---	---	SPACE
				11			12		---	---	

FEEDER SIZE: 3\*8  
LOCATION: SNOW BLOWER BAY (SOUTH EAST SIDE EXTERIOR WALL)

A	B	TOTAL CONNECTED LOAD (AMPERES PER PHASE)
5	5	

A	B	TOTAL CONNECTED LOAD (AMPERES PER PHASE)
172	165	

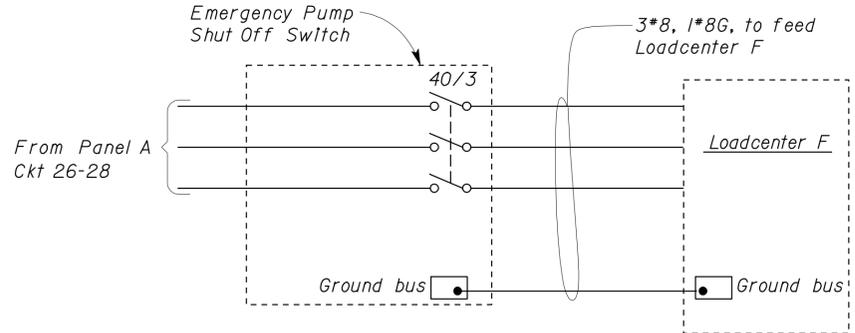
\* GFCI type circuit breaker



**A ELEVATION**  
NO SCALE

**Note:**  
Sign shall be 12 gauge baked enamel steel with red letters on white background. Letters shall be 2" high. Sign shall be mounted on the wall. Adhesive shall not be used. Provide metal shims for each corner, at back of sign, against uneven concrete masonry unit (CMU) surface, for a plumb sign.

**1 SIGN DETAIL**  
NO SCALE



**2 EMERGENCY SHUT OFF SWITCH WIRING DIAGRAM**

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	5704		47	52

REGISTERED ELECTRICAL ENGINEER DATE 11-20-08

6-22-09 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: Pam Emick  
PAM EMICK  
Approval date: 12-1-08

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN BY <i>Beatrice Bindu</i>	CHECKED <i>Tech Ngov</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 47M5704	CINDER / SALT SHED CONWAY SUMMIT MAINTENANCE STATION PANEL SCHEDULES	SHEET EE1-5		
DETAILS BY <i>Kathl Andreasen</i>	CHECKED <i>Beatrice Bindu</i>		CU 09603 EA 334201	POST MILE		DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
QUANTITIES BY <i>Beatrice Bindu</i>	CHECKED <i>Tech Ngov</i>		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3		2/10/08 11/20/08		

DOES SD Imperial Rev. 1/07

10-FEB-2010 07:04

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# ABBREVIATIONS

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

# LEGEND

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

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	5704		48	52

REGISTERED CIVIL ENGINEER  
 DATE 11-21-08  
 No. C 36844  
 Exp. 06/30/10  
 CIVIL  
 STATE OF CALIFORNIA

6-22-09  
PLANS APPROVAL DATE

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# GENERAL WORK NOTES

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

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

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

# PIPE FITTINGS AND VALVES

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

DESIGN	BY	Andy Quan	CHECKED	Jerry Marcotte	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	CINDER/SALT SHED CONWAY SUMMIT MAINTENANCE STATION	NOTES, LEGEND & ABBREVIATIONS	SHEET OF SS-0	
	DETAILS	BY	Andy Quan	CHECKED			Amar Baidwan				47M5704
	QUANTITIES	BY	Andy Quan	CHECKED			Jerry Marcotte				POST MILE
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0 1 2 3	CU 09603 EA 334201	DISREGARD PRINTS BEARING EARLIER REVISION DATES			REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF

DOES SD Imperial Rev. 9/02

10-FEB-2010 07:04

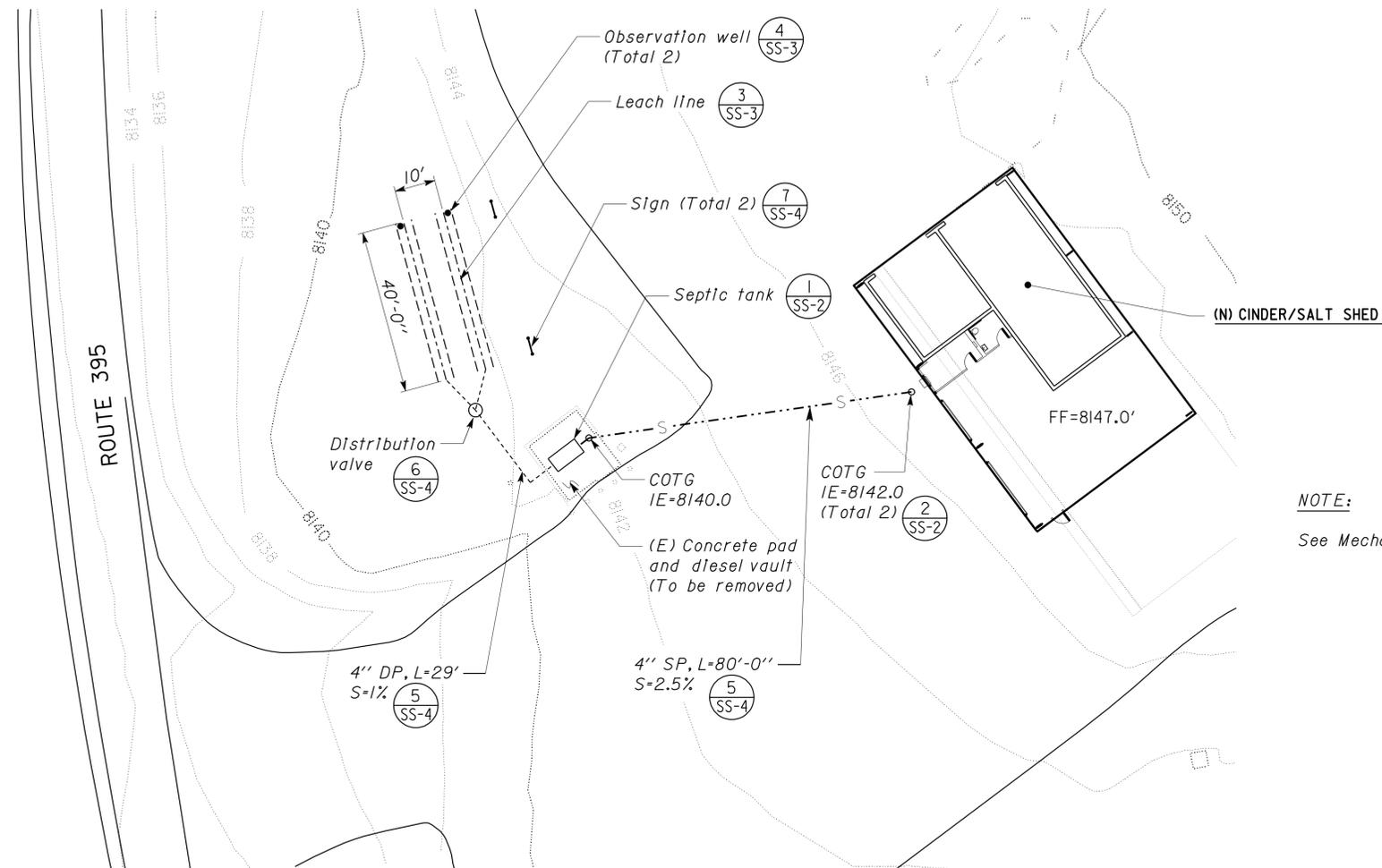
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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	5704		49	52

*Jerome R. Marcotte*  
 REGISTERED CIVIL ENGINEER  
 DATE 11-21-08  
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**NOTE:**  
 See Mechanical plan for sewer pipe under structure.

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



*Andy Quan*  
 DESIGN SUPERVISOR  
*Jerome R. Marcotte*  
 DESIGN ENGINEER

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

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO.	47M5704
POST MILE	

**CINDER/SALT SHED**  
**CONWAY SUMMIT MAINTENANCE STATION**  
 SITE PLAN

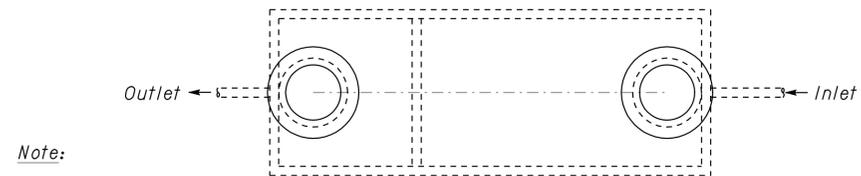
SHEET  
**SS-1**

REVISION DATES (PRELIMINARY STAGE ONLY)	
03-24-08	11-21-08

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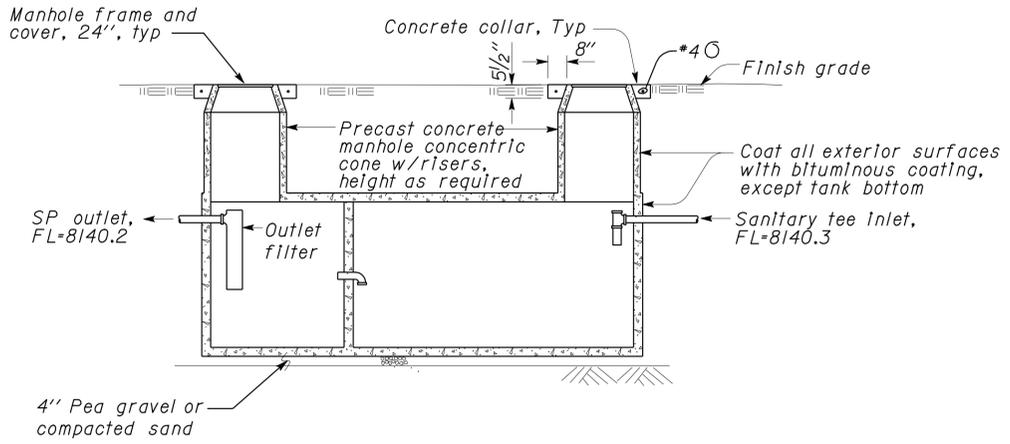
  

<i>Jerome R. Marcotte</i> REGISTERED CIVIL ENGINEER No. C 36844 Exp. 06/30/10 CIVIL STATE OF CALIFORNIA		11-21-08 DATE
6-22-09 PLANS APPROVAL DATE		
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Note:  
Epoxy mortar all joints, connections and penetrations, inside and outside of tank

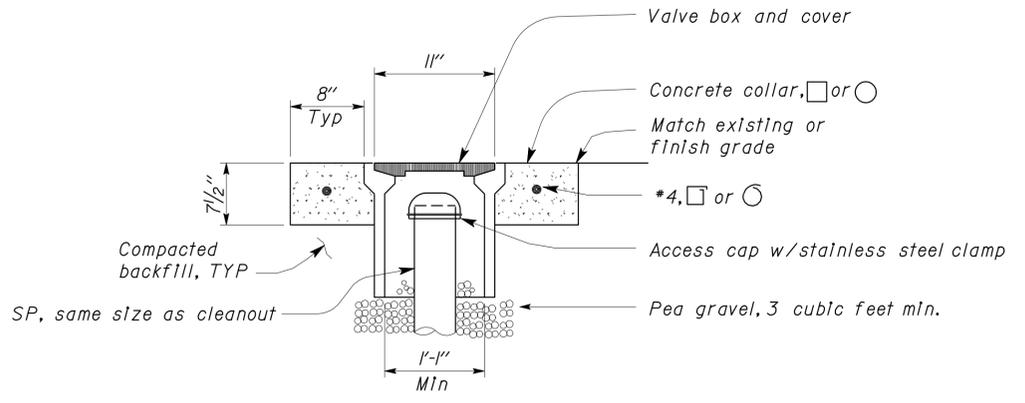
**PLAN**



**SECTION**

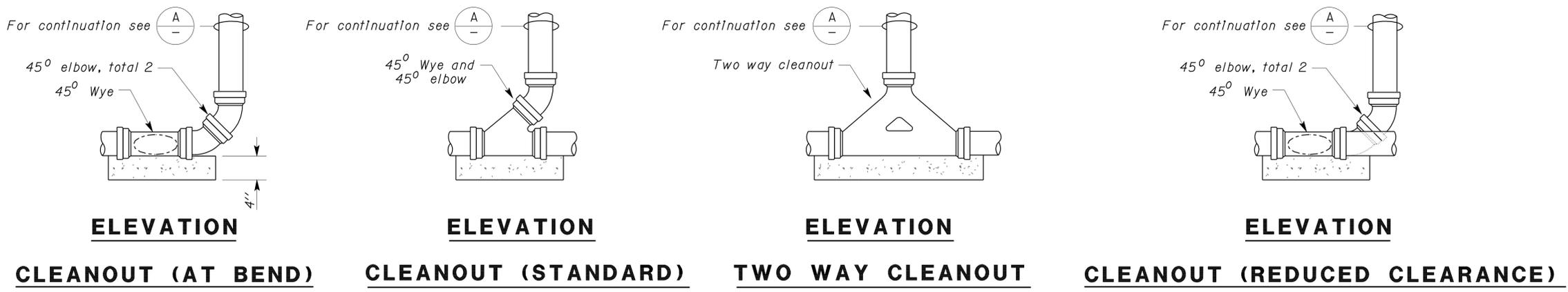
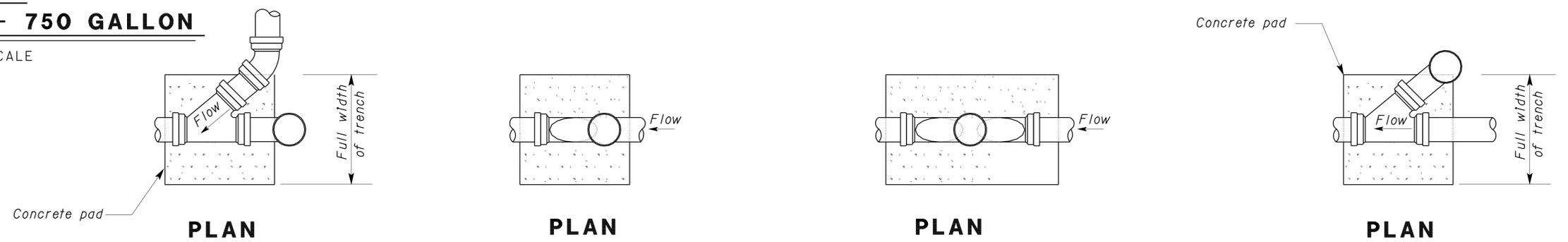
**1 SEPTIC TANK - 750 GALLON**

NO SCALE



**A COTG ACCESS BOX**

NO SCALE



**CLEANOUT (AT BEND) CLEANOUT (STANDARD) TWO WAY CLEANOUT CLEANOUT (REDUCED CLEARANCE)**

**2 CLEANOUT TO GRADE**

NO SCALE

Note:  
Concrete pad shown typical for all cleanouts.

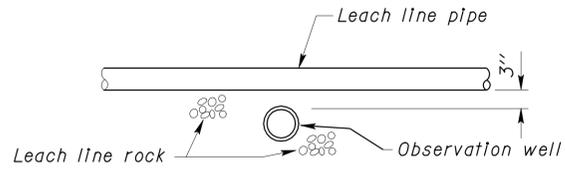
DESIGN	BY	Andy Quan	CHECKED	Jerry Marcotte	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	47M5704	CINDER/SALT SHED CONWAY SUMMIT MAINTENANCE STATION	SHEET 55-2
	DETAILS	BY	Andy Quan	CHECKED			Amar Baidwan			
QUANTITIES	BY	Andy Quan	CHECKED	Jerry Marcotte	CU 09603 EA 334201	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)			SHEET OF

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	5704		51	52

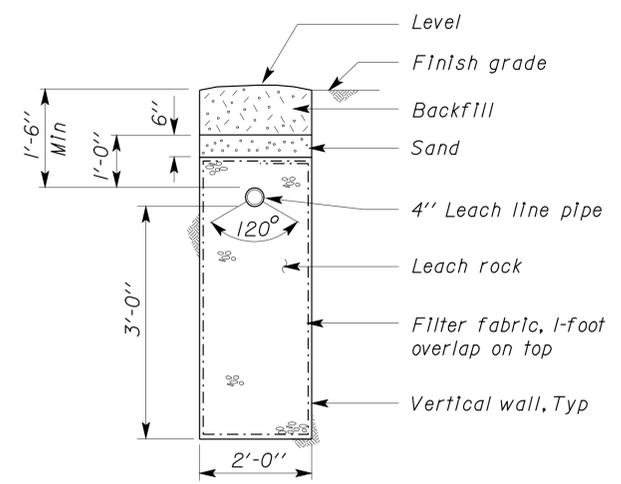
*Jerome R. Marcotte* 11-21-08  
 REGISTERED CIVIL ENGINEER DATE



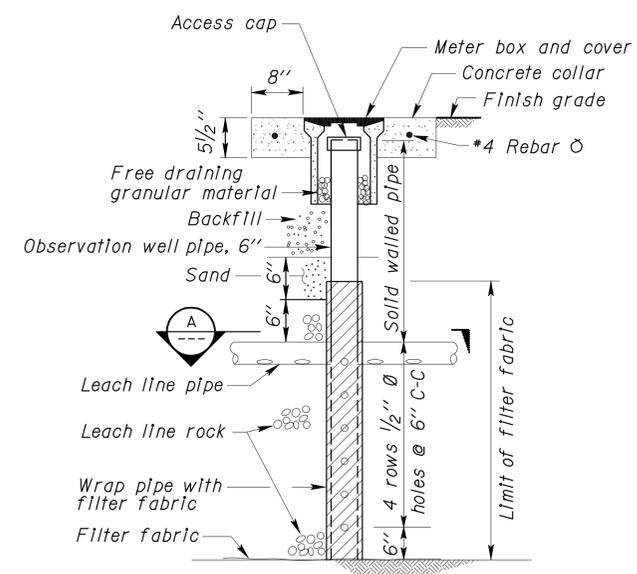
6-22-09  
 PLANS APPROVAL DATE  
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**A SECTION - OBSERVATION WELL**  
NO SCALE



**3 LEACH LINE**  
NO SCALE



**4 OBSERVATION WELL**  
NO SCALE

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	DETAILS	BY	Andy Quan	CHECKED			Amar Baidwan				POST MILE
	QUANTITIES	BY	Andy Quan	CHECKED			Jerry Marcotte				
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0 1 2 3	CU 09603 EA 334201	REVISION DATES (PRELIMINARY STAGE ONLY)			SHEET OF	
DOES SD Imperial Rev. 9/02							DISREGARD PRINTS BEARING EARLIER REVISION DATES			03-24-08 11-12-08 11-21-08	

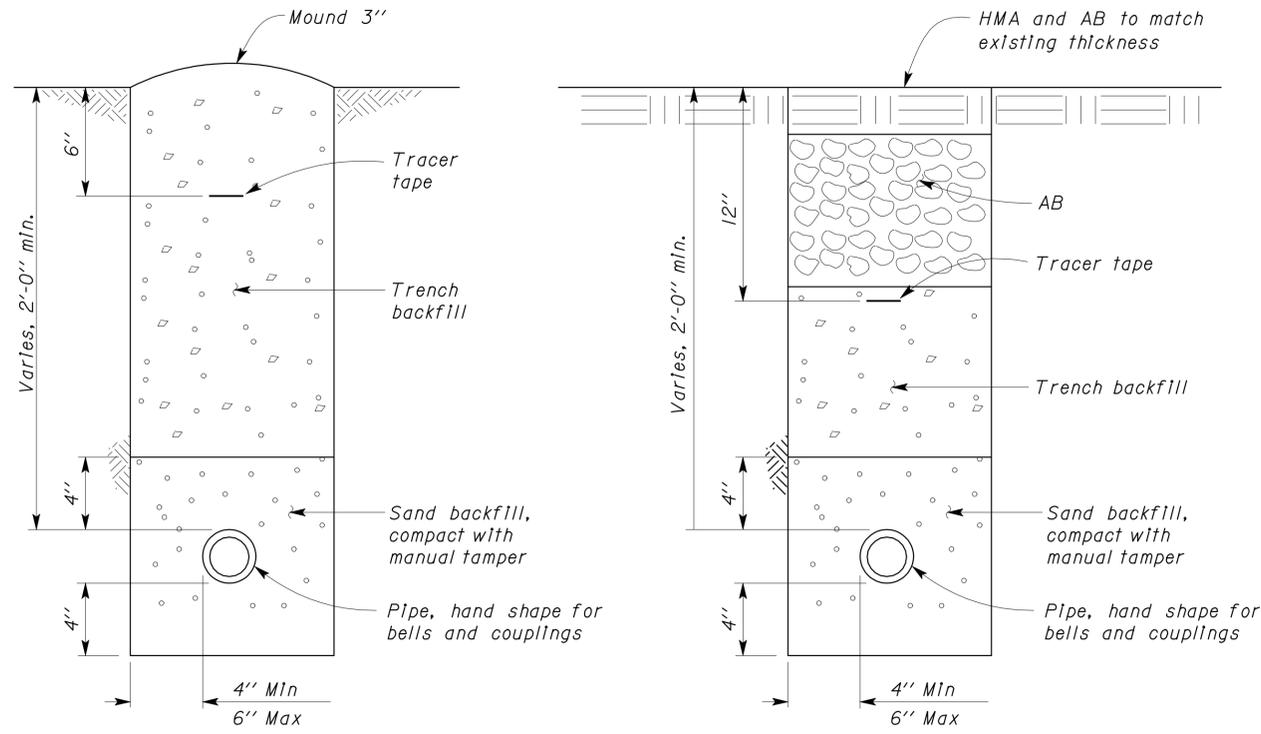
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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	5704		52	52

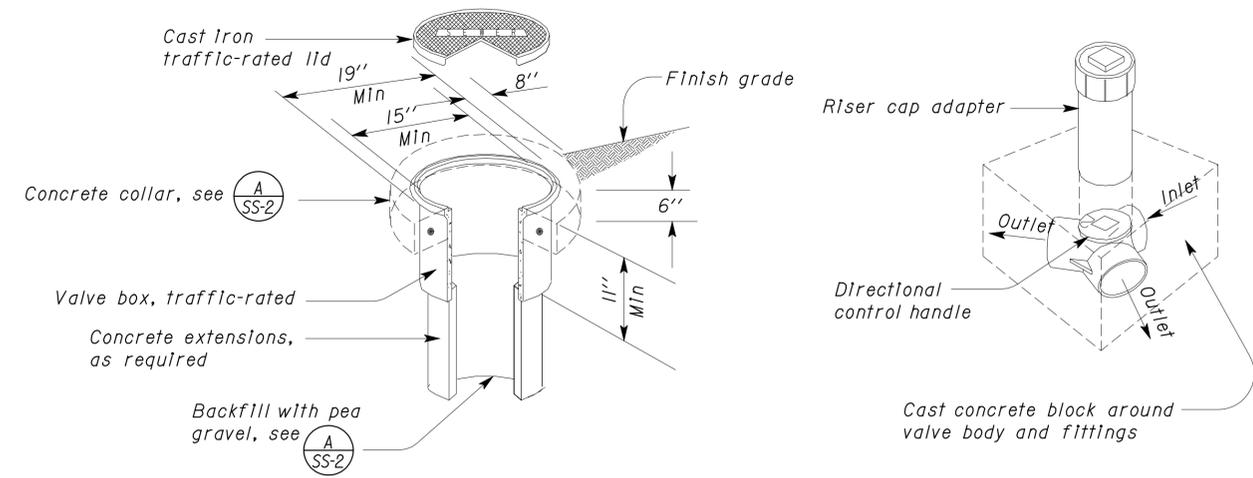
*Jerome R. Marcotte* 11-21-08  
 REGISTERED CIVIL ENGINEER DATE  
 No. C 36844  
 Exp. 06/30/10  
 CIVIL  
 STATE OF CALIFORNIA

6-22-09  
PLANS APPROVAL DATE

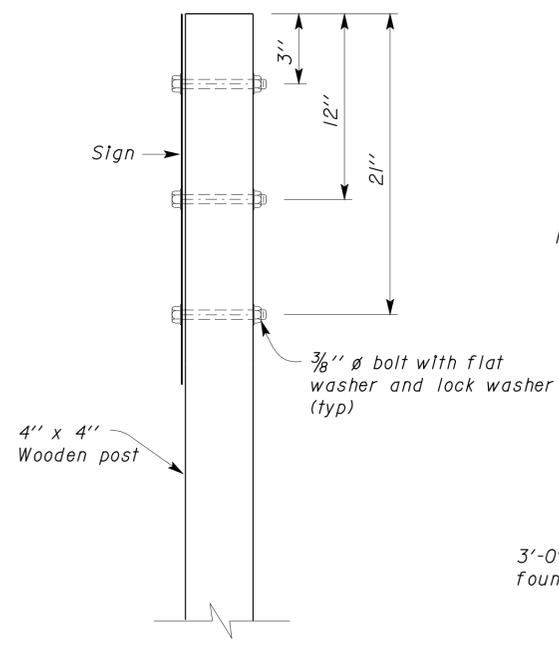
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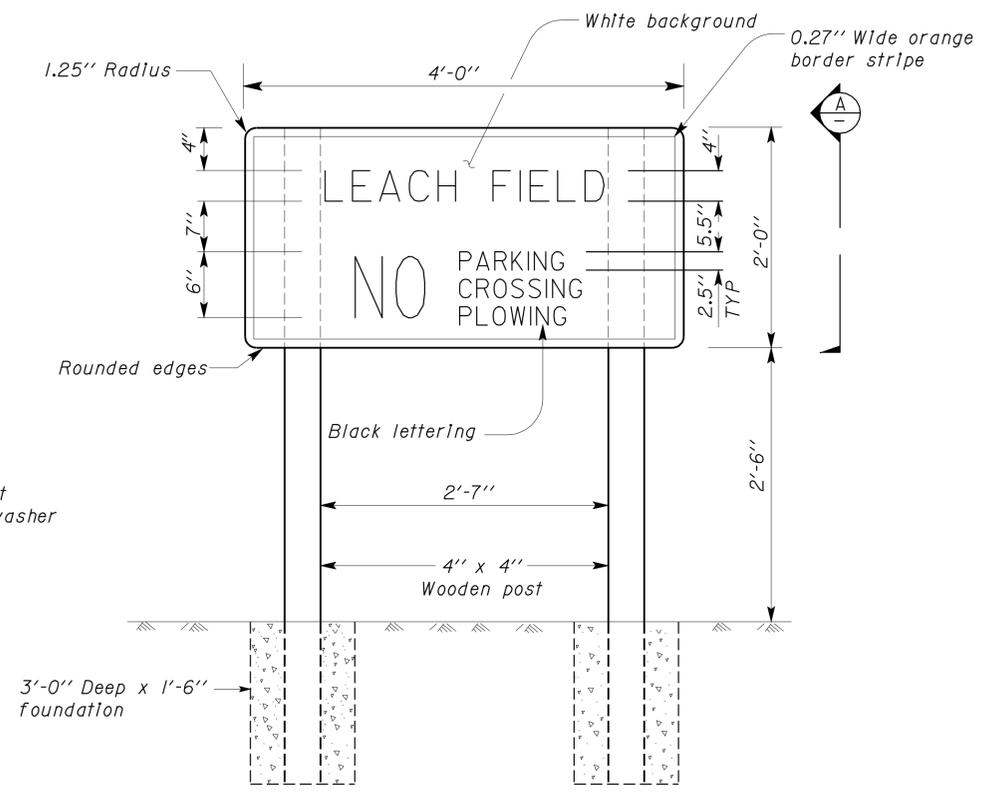
**5 SEWER AND DRAIN PIPE**  
NO SCALE



**6 DISTRIBUTION VALVE**  
NO SCALE



**A SECTION**  
NO SCALE



**7 SIGN AND FOUNDATION DETAIL**  
NO SCALE

**NOTE:**  
Spacing between words Parking, Crossing, Plowing to be 0.75".

DESIGN	BY	Andy Quan	CHECKED	Jerry Marcotte	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	47M5704	CINDER/SALT SHED CONWAY SUMMIT MAINTENANCE STATION	SHEET SS-4
	DETAILS	BY	Andy Quan	CHECKED			Amar Baidwan			
QUANTITIES	BY	Andy Quan	CHECKED	Jerry Marcotte	CU 09603 EA 334201	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)			SHEET OF