



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

FUNCTIONAL SUPERVISOR  
**RORY QUINCE**

CALCULATED-DESIGNED BY  
 CHECKED BY

MIGUEL PEREZ  
 BRIAN WESLING

REVISED BY  
 DATE REVISED

YKF  
 03-08

NOTE: FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

**LEGEND**

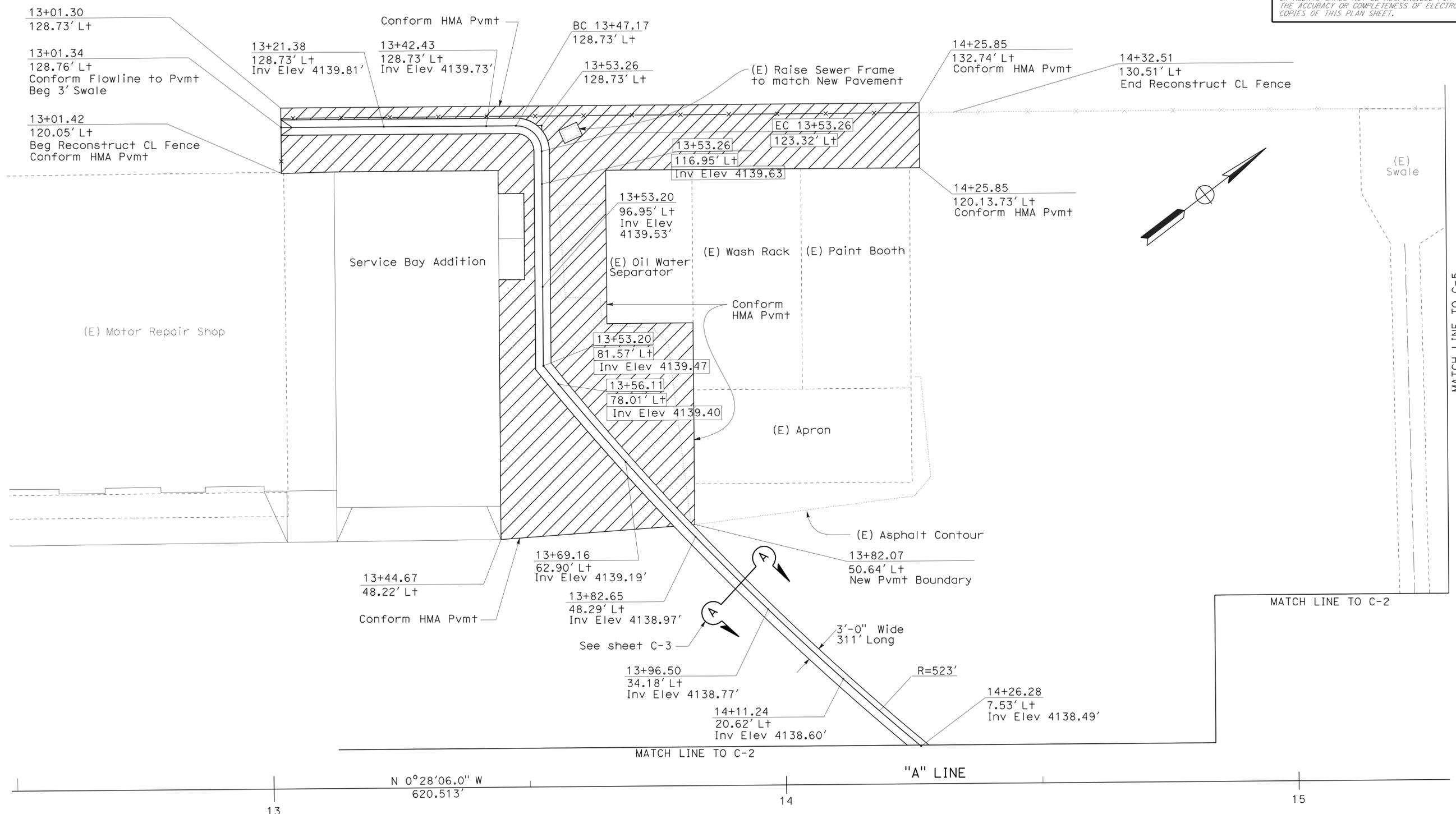
- Limit of Remove Asphalt Concrete
- Limit of HMA (Type B)

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Iny	5505		2	102

08-20-08  
 REGISTERED CIVIL ENGINEER DATE

11-17-08  
 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.



**CONSTRUCTION DETAILS**  
**C-1**

LAST REVISION | DATE PLOTTED => 04-JAN-2010  
 08-25-08 | TIME PLOTTED => 07:07

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Iny	5505		3	102

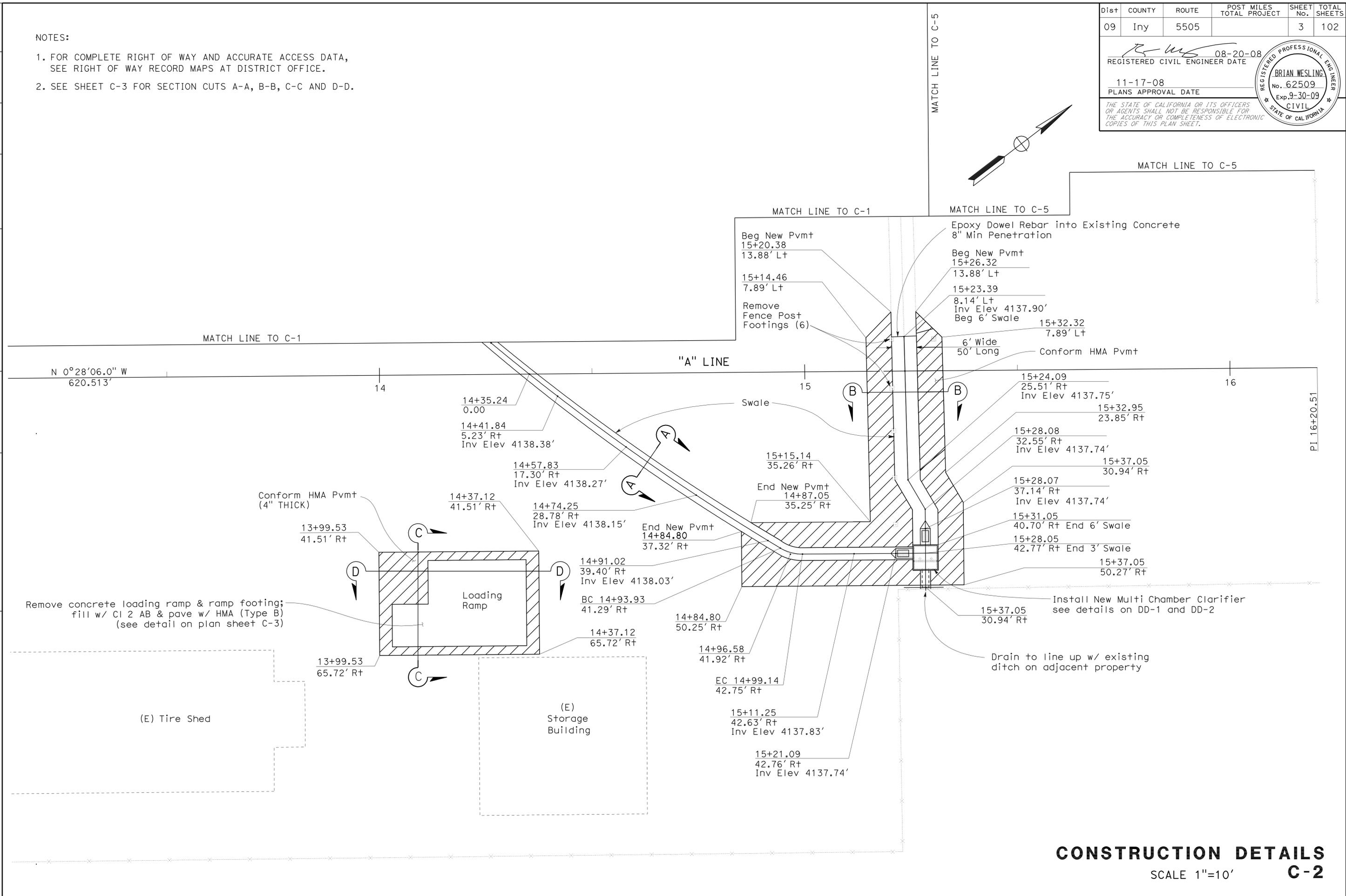
  

<i>[Signature]</i>	08-20-08
REGISTERED CIVIL ENGINEER DATE	
11-17-08	
PLANS APPROVAL DATE	

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.

NOTES:  
 1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.  
 2. SEE SHEET C-3 FOR SECTION CUTS A-A, B-B, C-C AND D-D.

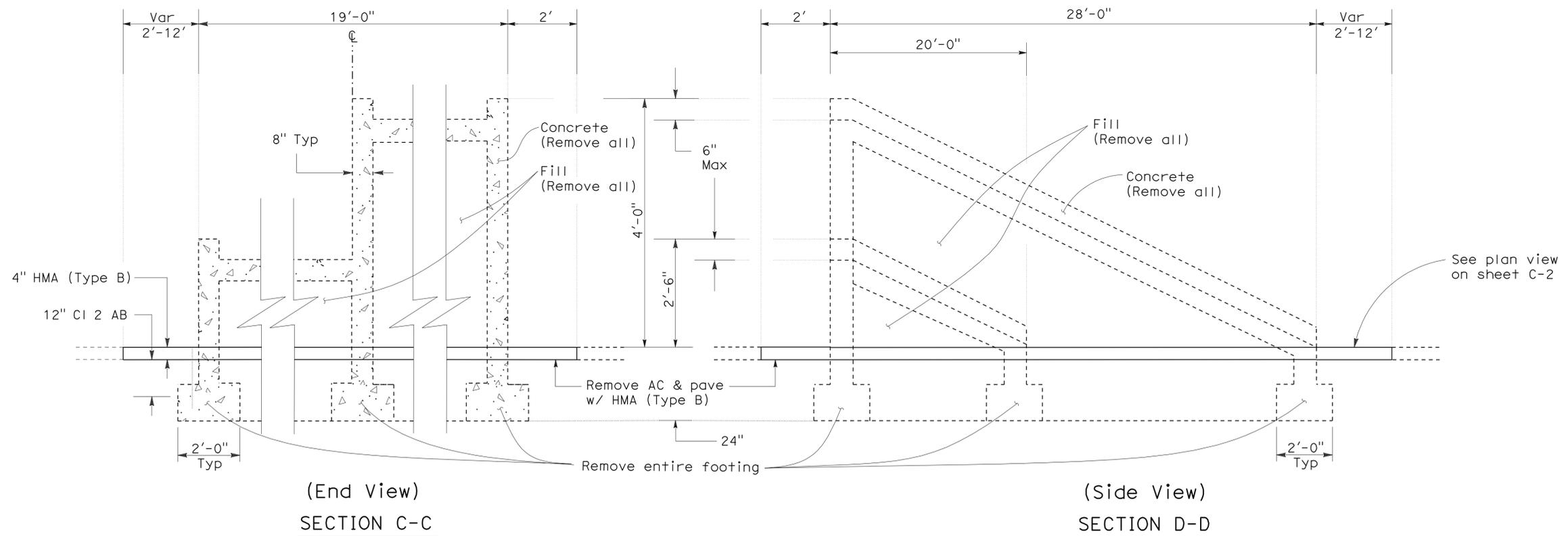
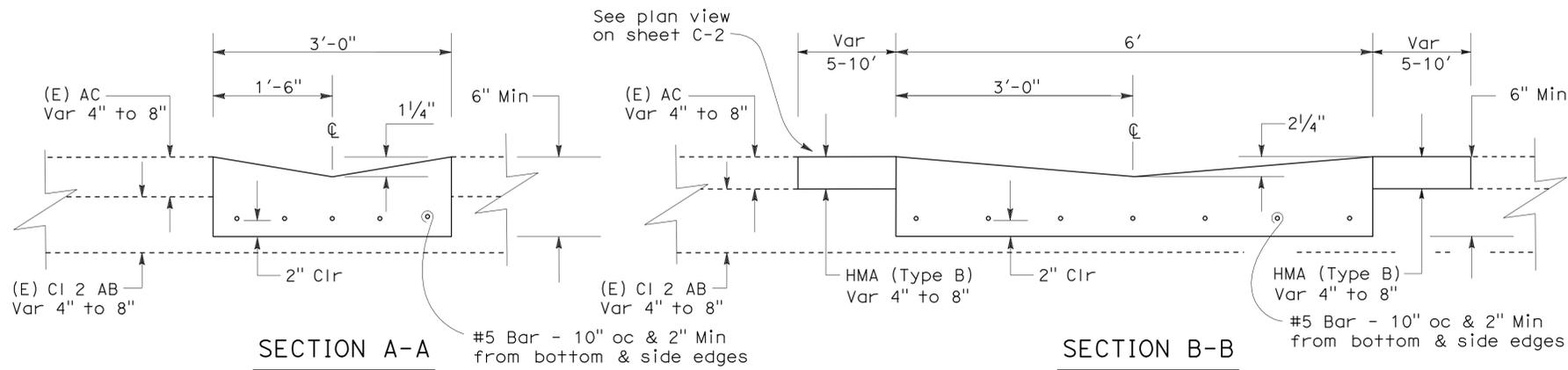
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 DESIGN



**CONSTRUCTION DETAILS**  
 SCALE 1"=10'  
**C-2**

LAST REVISION | DATE PLOTTED => 04-JAN-2010  
 08-25-08 | TIME PLOTTED => 07:07

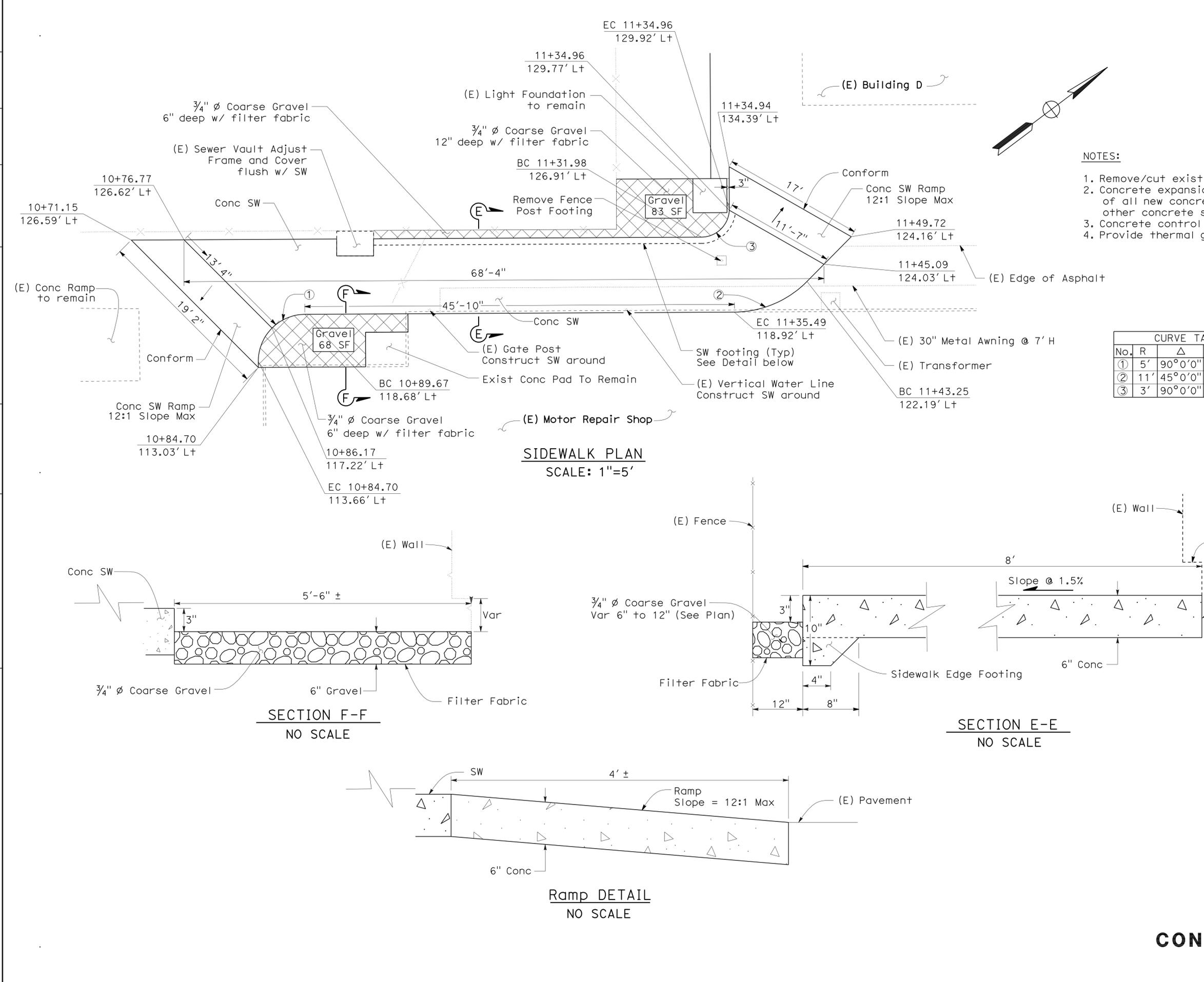
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Iny	5505		4	102
			08-20-08	REGISTERED CIVIL ENGINEER DATE	
			11-17-08	PLANS APPROVAL DATE	
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.					



REMOVE CONCRETE LOADING RAMP

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN
Caltrans	
FUNCTIONAL SUPERVISOR	RORY QUINCE
CALCULATED-DESIGNED BY	CHECKED BY
REVISOR	DATE
REVISION	DATE
YKF	03-08
REVISOR	DATE
MIGUEL PEREZ	BRIAN WESLING



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Iny	5505		5	102

08-20-08  
 REGISTERED CIVIL ENGINEER DATE

11-17-08  
 PLANS APPROVAL DATE

BRIAN WESLING  
 No. 62509  
 Exp. 9-30-09  
 CIVIL

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.

- NOTES:**
1. Remove/cut existing AC as needed to install new sidewalk.
  2. Concrete expansion joints are to be applied along edges of all new concrete work that abuts existing building or other concrete structures.
  3. Concrete control joint spacing minimum every 6 feet.
  4. Provide thermal gap around any pipe running thru slab.

CURVE TABLE				
No.	R	Δ	T	L
①	5'	90°0'0"	5'	7.85'
②	11'	45°0'0"	4.56'	8.64'
③	3'	90°0'0"	3'	4.71'

**CONSTRUCTION DETAILS**  
**C-4**

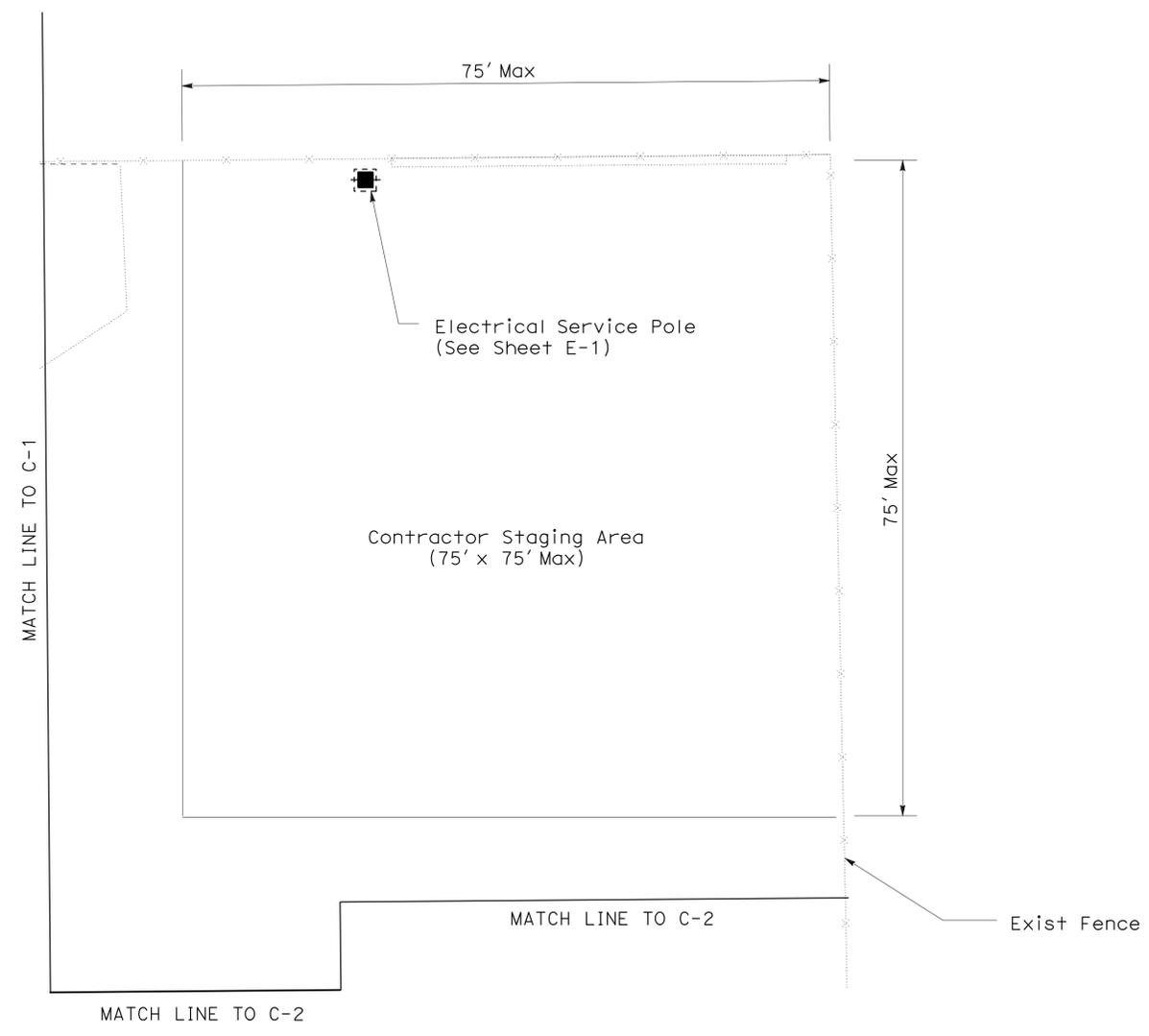
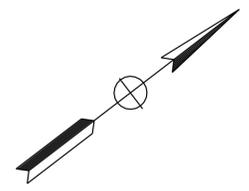
FUNCTIONAL SUPERVISOR	RORY QUINCE
CALCULATED-DESIGNED BY	CHECKED BY
MIGUEL PEREZ	BRIAN WESLING
REVISED BY	DATE REVISED
	YKF 03-08

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Iny	5505		6	102

 08-20-08  
 REGISTERED CIVIL ENGINEER DATE  
 11-17-08  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
**BRIAN WESLING**  
 No. 62509  
 Exp. 9-30-09  
 CIVIL  
 STATE OF CALIFORNIA

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



# CONSTRUCTION DETAILS

**C-5**

SCALE 1"=10'

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Iny	5505		7	102

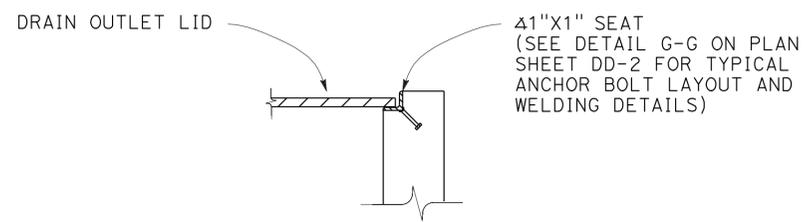
 08-20-08 REGISTERED CIVIL ENGINEER DATE	
11-17-08 PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER  
**BRIAN WESLING**  
 No. 62509  
 Exp. 9-30-09  
 CIVIL  
 STATE OF CALIFORNIA

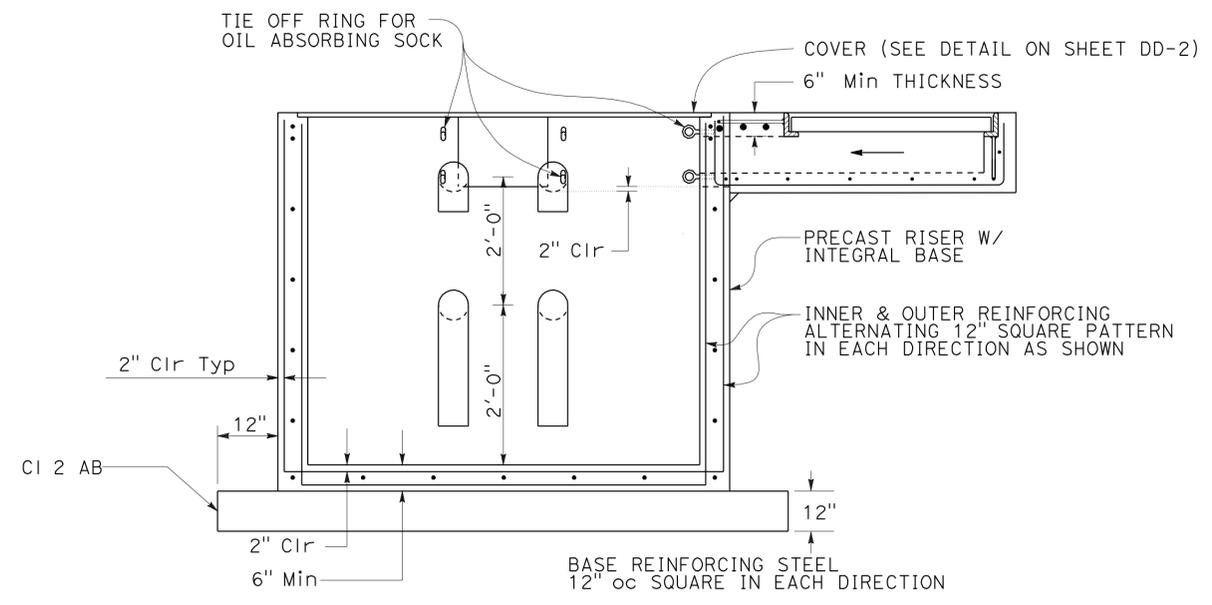
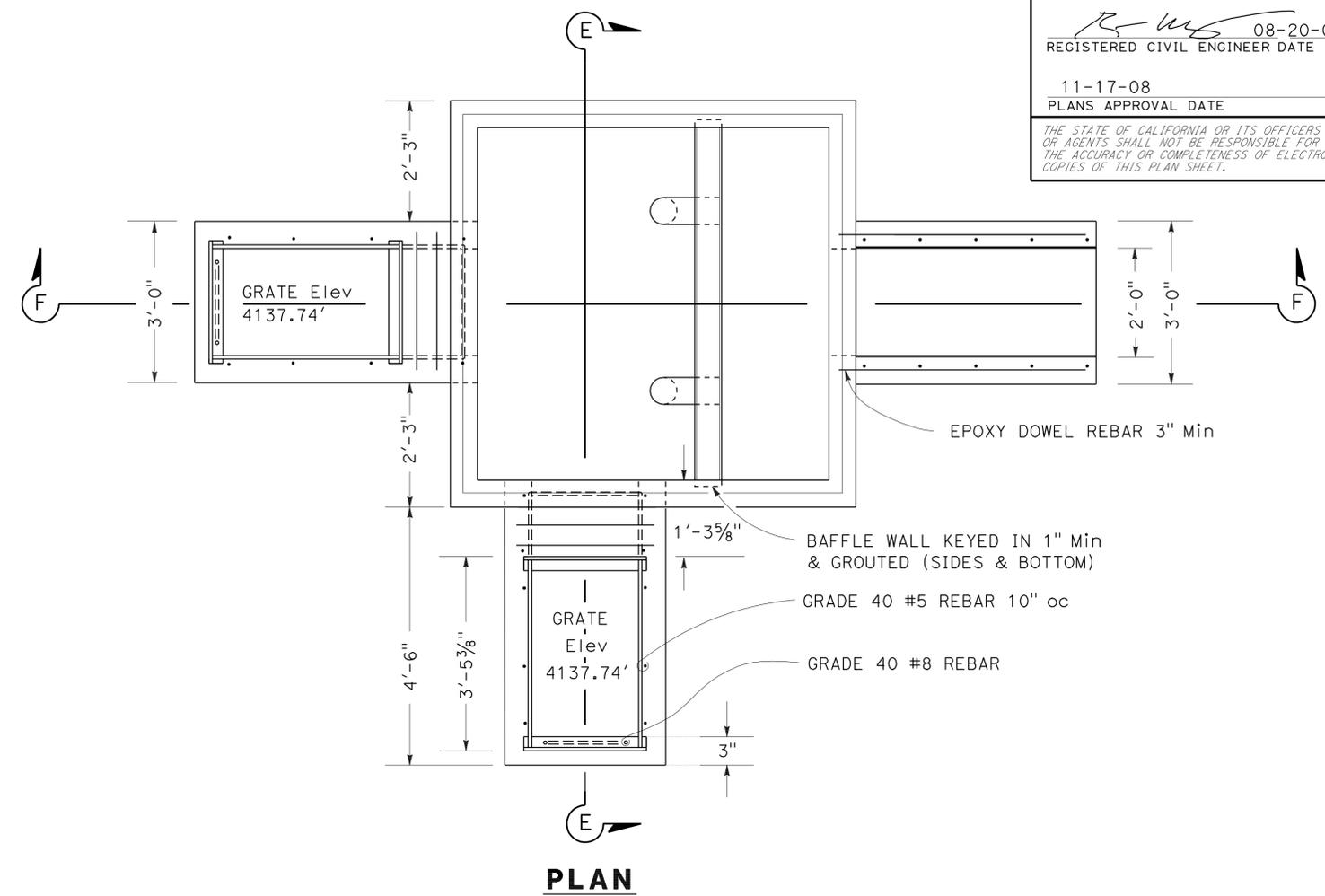
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

- NOTES:
- ALL REINFORCING STEEL #5 BAR - GRADE 40 - 10" oc, UNLESS OTHERWISE SHOWN OR LISTED.
  - CLARIFIER SHALL BE FITTED WITH AN OIL ABSORBING SUMP SKIMMER SOCK ON THE UPSTREAM SIDE OF THE BAFFLE.
  - DROP INLETS & OUTLET BASE SIDE AND WALL REINFORCING STEEL SPACING AS SHOWN.
  - BAFFLE WALL SHALL HAVE #5 BAR AT 12" SPACING EACH WAY.
  - PRECAST BAFFLE SHALL BE KEYED 1" Min AND GROUTED IN PLACE.
  - CONTRACTOR MAY SUBMIT ALTERNATIVE PLAN FOR HEAVY TRAFFIC RATED PREMANUFACTURED STORMWATER TREATMENT CLARIFIER TO THE ENGINEER FOR REVIEW AND APPROVAL.
  - ALL EXPOSED STEEL WILL BE HOT DIPPED GAVANIZED UNLESS OTHERWISE SHOWN.
  - ALL STEEL COVERPLATES WILL HAVE 3/8" CHAIN T-HOOKS HOLES FOR REMOVAL; CONTRACTOR CAN PROPOSE OTHER LID REMOVAL SYSTEM SUBJECT TO ENGINEER'S APPROVAL.
  - SEE SHEET DD-2 FOR DROP INLET AND OUTLET COVER DETAILS

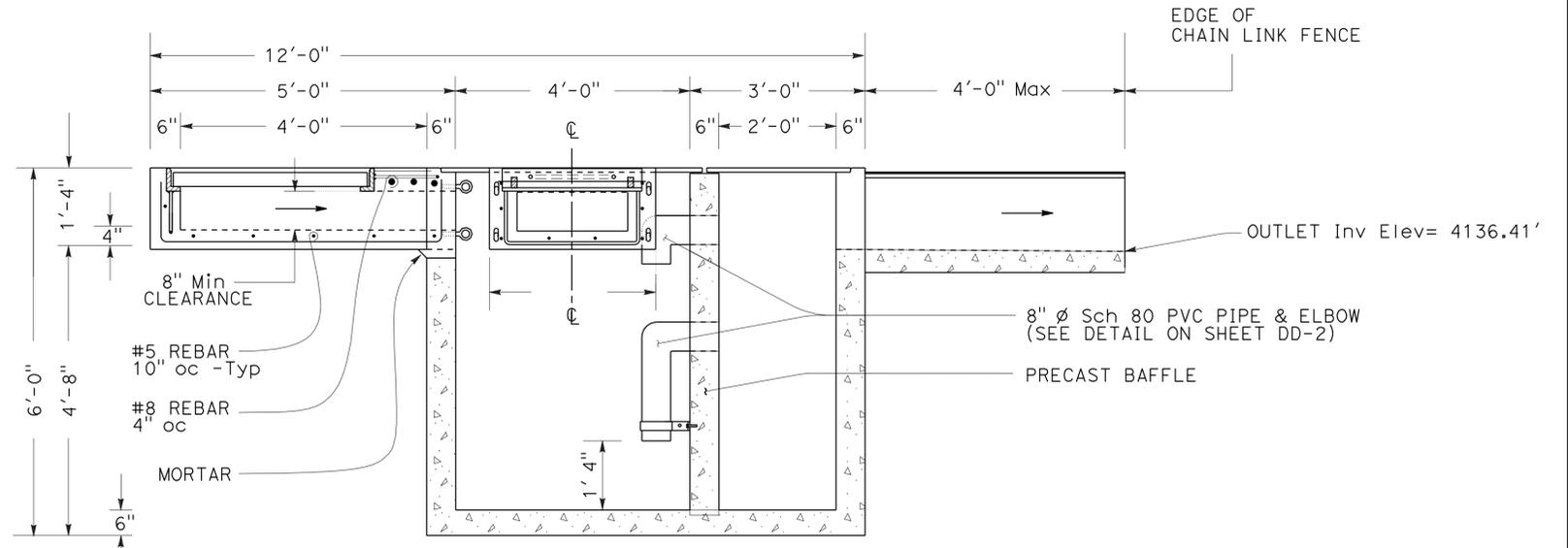
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 DESIGN  
 FUNCTIONAL SUPERVISOR  
 RORY QUINCE  
 MIGUEL PEREZ  
 BRIAN WESLING  
 YKF  
 03-08  
 REVISOR BY  
 DATE REVISED  
 CALCULATED-DESIGNED BY  
 CHECKED BY



**DRAIN OUTLET COVER DETAIL**



**SECTION E-E**

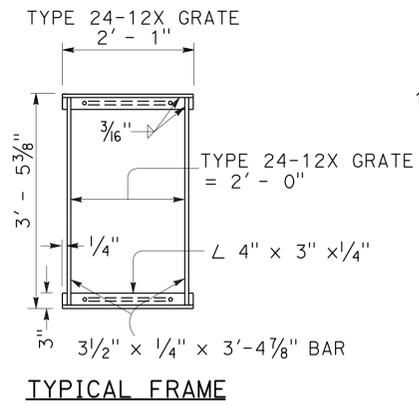
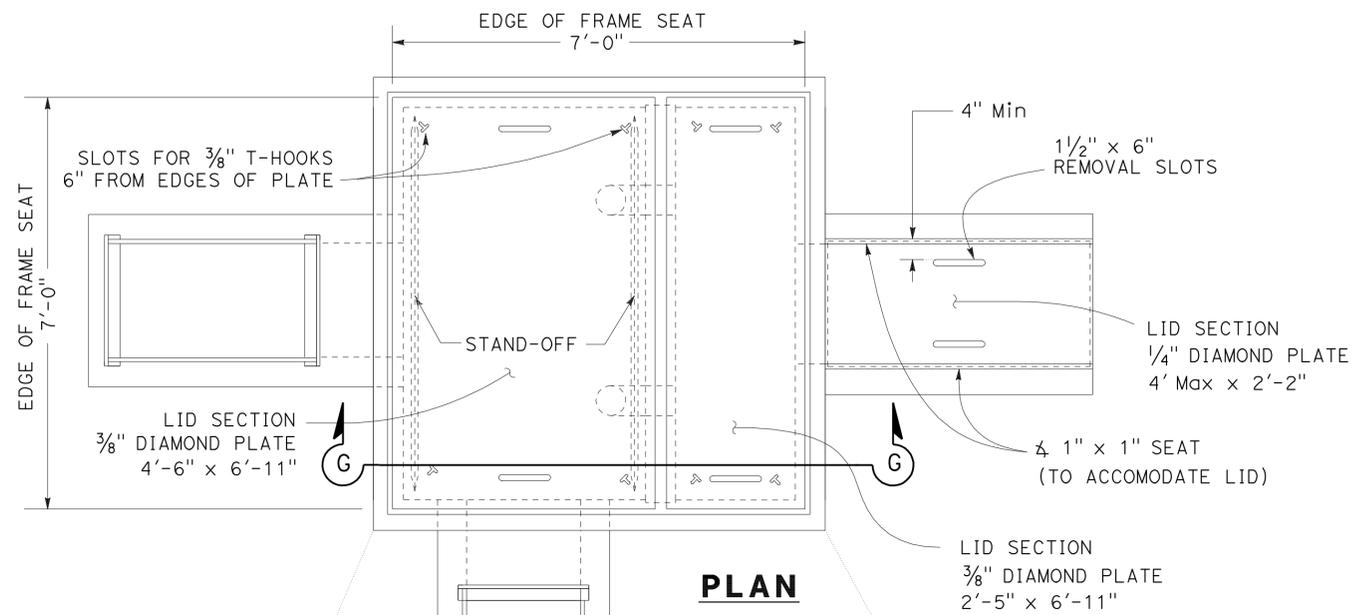


**SECTION F-F**

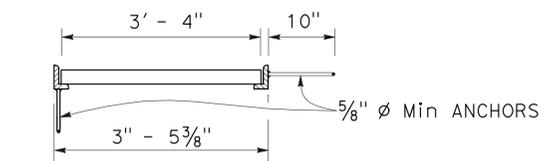
**DRAINAGE SYSTEM CLARIFIER**

**DRAINAGE DETAILS NO SCALE DD-1**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Iny	5505		8	102
				08-20-08	
				REGISTERED CIVIL ENGINEER DATE	
				11-17-08	
				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>					

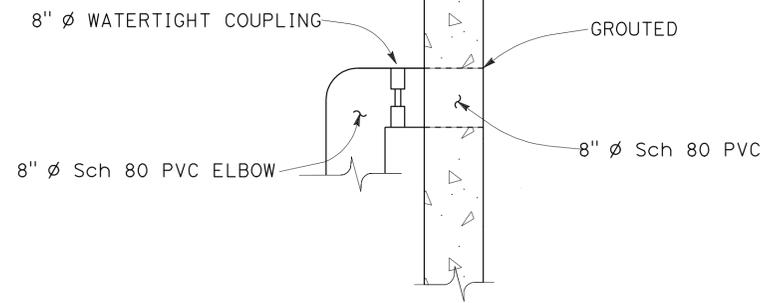


**CROSS SECTION (THRU FRAME)**

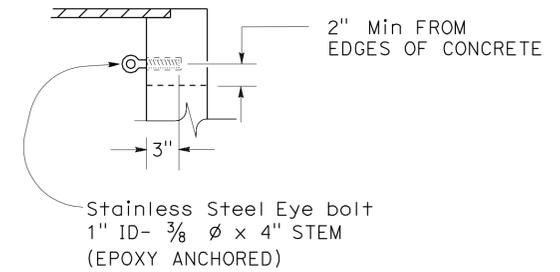


**LONGITUDINAL SECTION (THRU FRAME & GRATE)**

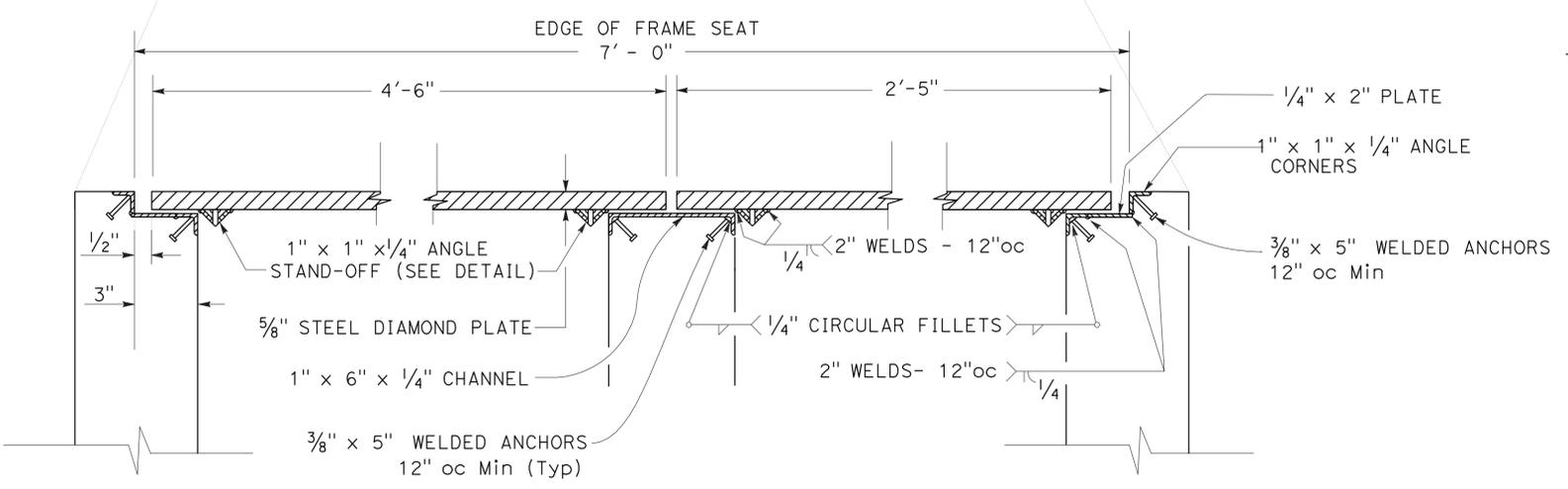
**RECTANGULAR FRAME DETAILS**



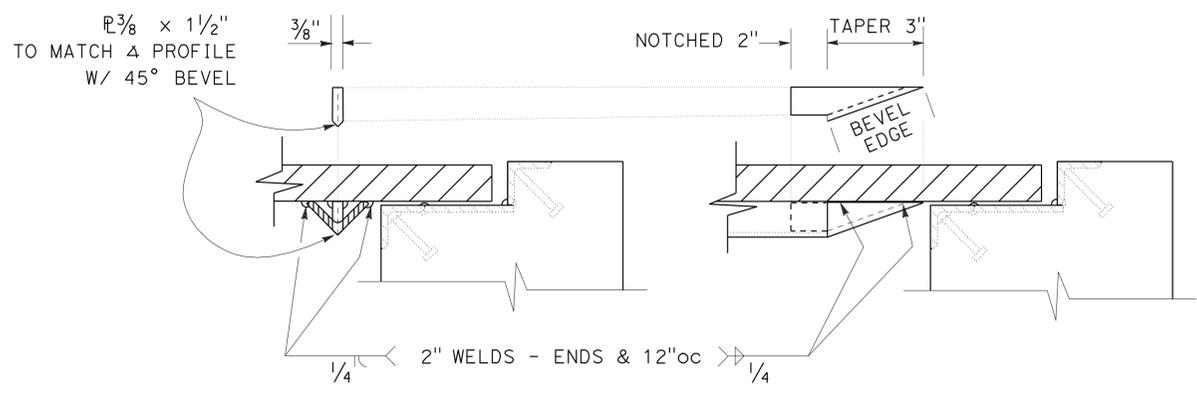
**ELBOW DETAIL**



**EYEBOLT DETAIL**



**SECTION G-G  
CLARIFIER COVER DETAIL**



**COVER STAND-OFF DETAIL**

**DRAINAGE DETAILS  
NO SCALE DD-2**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 DESIGN  
 RORY QUINCE  
 FUNCTIONAL SUPERVISOR  
 MIGUEL PEREZ  
 BRIAN WESLING  
 REVISIONS:  
 YKF  
 DATE  
 03-08  
 REVISIONS:  
 DATE  
 03-08



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Iny	5505		10	102

08-20-08  
 REGISTERED CIVIL ENGINEER DATE

11-17-08  
 PLANS APPROVAL DATE

BRIAN WESLING  
 No. 62509  
 Exp. 9-30-09  
 CIVIL

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.

**MISCELLANEOUS CONSTRUCTION**

LOCATION DESCRIPTION	REMOVE ASPHALT CONCRETE (N) *	HMA (TYPE B)	REMOVE CONCRETE	MINOR CONCRETE (Misc Const)	ROADWAY EXCAVATION	CLASS 2 AGGREGATE BASE	GRAVEL BACKFILL	#5 REINFORCED STEEL BAR (N)	REMOVE FENCE POST FOOTING (N) **	ADJUST FRAME AND COVER TO GRADE	RECONSTRUCT CL FENCE
	CY	TON	CY	CY	CY	CY	CY	LB	EA	EA	LF
SERVICE BAY ADDITION AND WASH RACK	88	108								1	140
CLARIFIER AREA	29	35									
SWALE I	24			18	6			2000			
SWALE II	8			6	2			500	6		
SIDEWALK	19			13			4		1	1	
LOADING RAMP AND POST FOOTING FROM REMOVE ASPHALT CONCRETE	9	22	62			18					
TOTAL	---	169	62	37	185	18	4	---	---	2	140

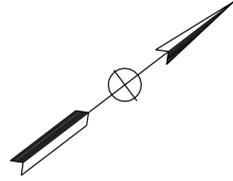
\* QUANTITY IS PAID FOR AS ROADWAY EXCAVATION  
 \* \* REMOVE POST FOOTING IS PAID FOR AS REMOVE CONCRETE  
 (N) NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

**DRAINAGE SYSTEM CLARIFIER**

LOCATION DESCRIPTION	FRAME AND GRATE (N)	COVER PLATE (N)	FRAME (N)	Misc IRON AND STEEL	MINOR CONCRETE (MINOR Str)	#5 REINFORCED STEEL BAR (N)
	EA	EA	EA	LB	CY	
CLARIFIER	2			1061	6.5	770
		3		674		
			3	205		
TOTAL	---	---	---	1940	6.5	---

(N) NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

**SUMMARY OF QUANTITIES Q-1**



NOTES:

1 Exist 240/120 V, 3 $\phi$ , 4-WIRE, PANEL "H" WITH FOLLOWING CIRCUIT BREAKERS:

AMPERES	VOLTS	POLES	LOAD	SPECIAL REQUIREMENTS
150	240	3	MAIN BREAKER	---
15	240	3	EXHAUST FAN	---
50	240	3	PRESSURE WASHER	---
100	240	3	PUMP	---
100	240	3	SUB PANEL	*

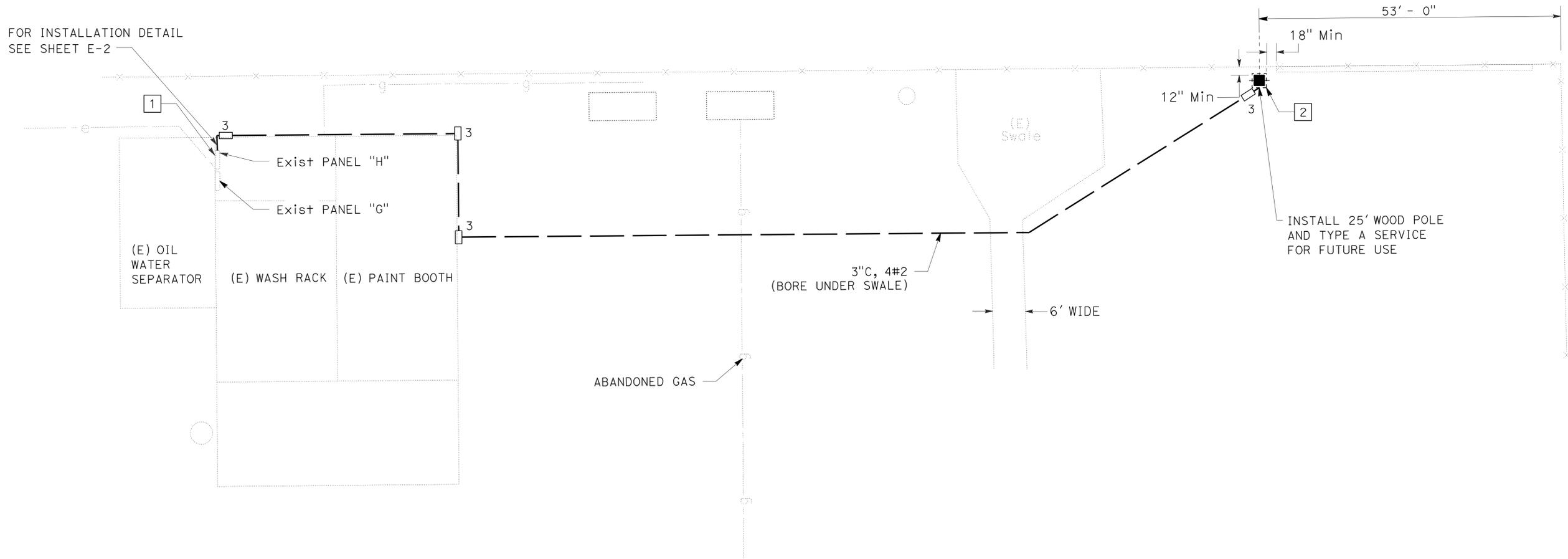
\* USE SPARE CIRCUIT BREAKER, AND REPLACE NAMEPLATE AS SHOWN.

2 SUB PANEL, 240/120 V, 3 $\phi$ , 4-WIRE, TYPE A SERVICE WITH FOLLOWING CIRCUIT BREAKERS:

AMPERES	VOLTS	POLES	LOAD	SPECIAL REQUIREMENTS
100	240	3	MAIN BREAKER	---
60	240	2	SPARE	---
30	240	2	SPARE	---
30	240	3	SPARE	---
20	120	1	SPARE	---
20	120	1	SPARE	---
20	120	1	SPARE	GFCI

GFCI = GROUND FAULT CIRCUIT INTERRUPT

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 DESIGN  
 SUPERVISING ENGINEER RORY QUINCE  
 CALCULATED-DESIGNED BY  
 CHECKED BY  
 MIGUEL PEREZ ENRICO DE JESUS  
 REVISED BY YKF DATE REVISED 4-08



**ELECTRICAL SERVICE**

**E-1**

SCALE 1"=10'

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Iny	5505		12	102

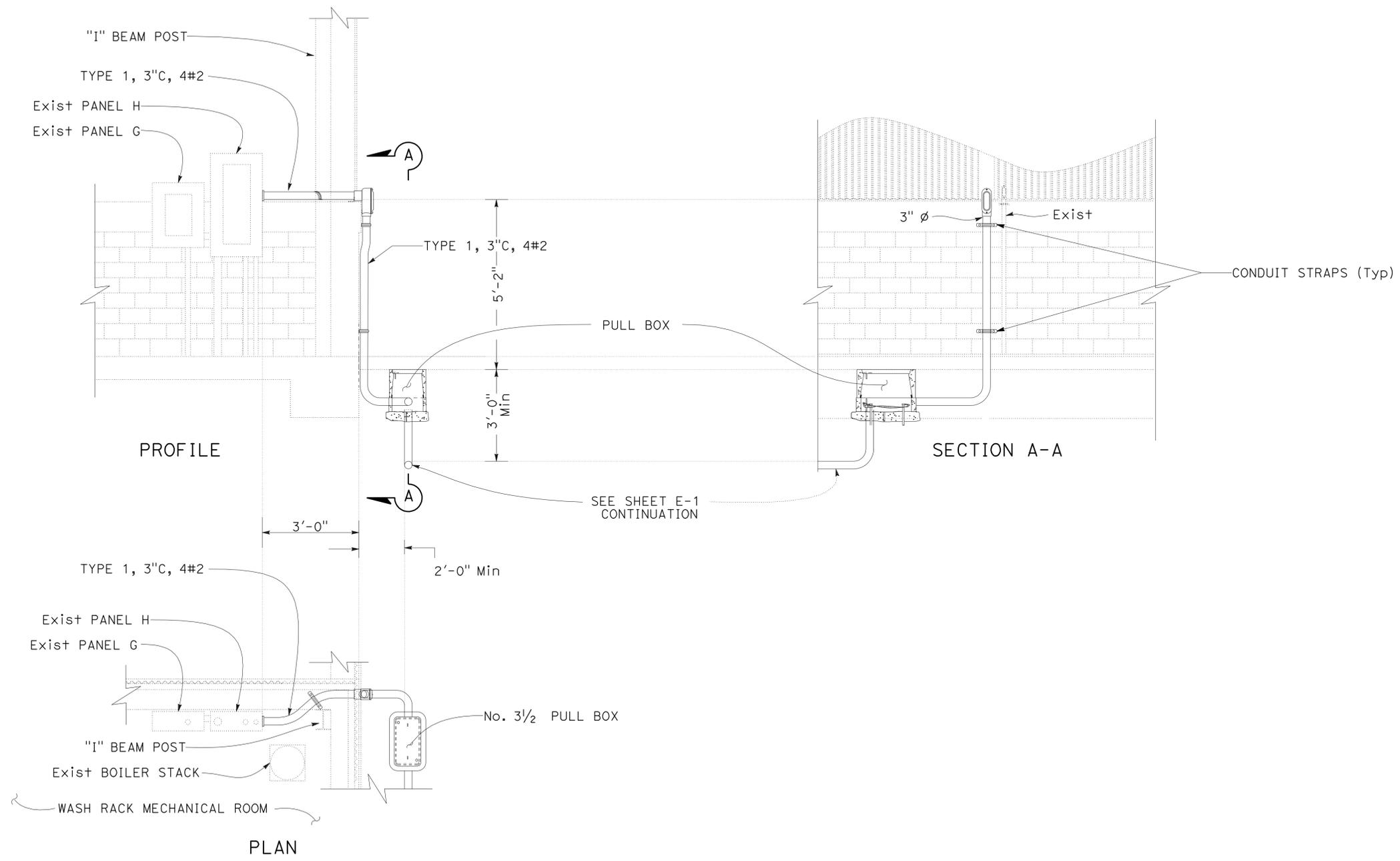
08-20-08  
 REGISTERED CIVIL ENGINEER DATE

11-17-08  
 PLANS APPROVAL DATE

BRIAN WESLING  
 No. 62509  
 Exp. 9-30-09  
 CIVIL

REGISTERED PROFESSIONAL ENGINEER  
 STATE OF CALIFORNIA

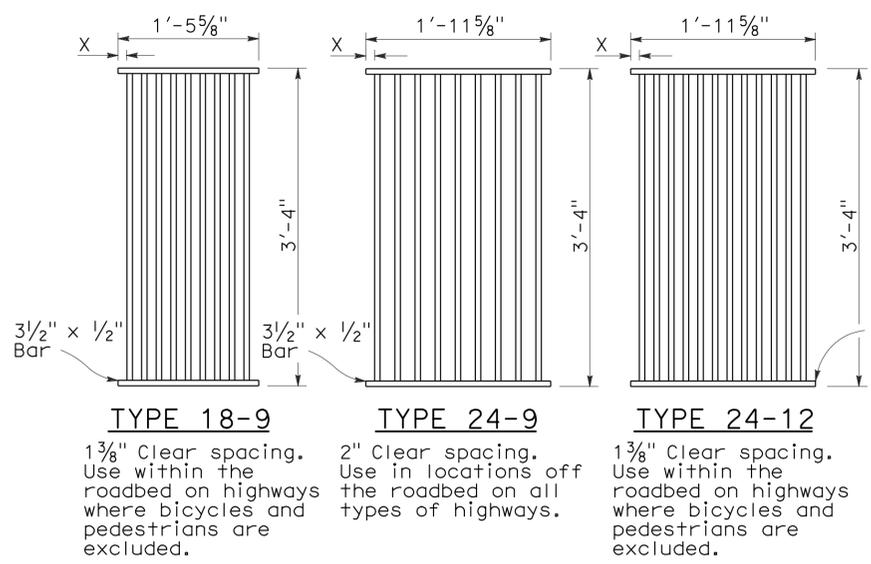
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.



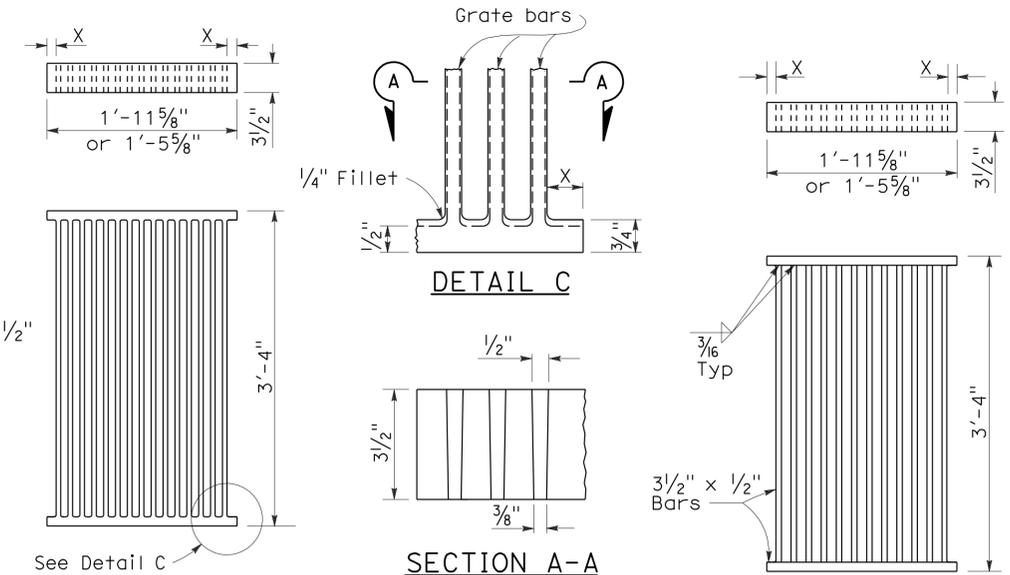
**TIE-IN DETAIL**

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

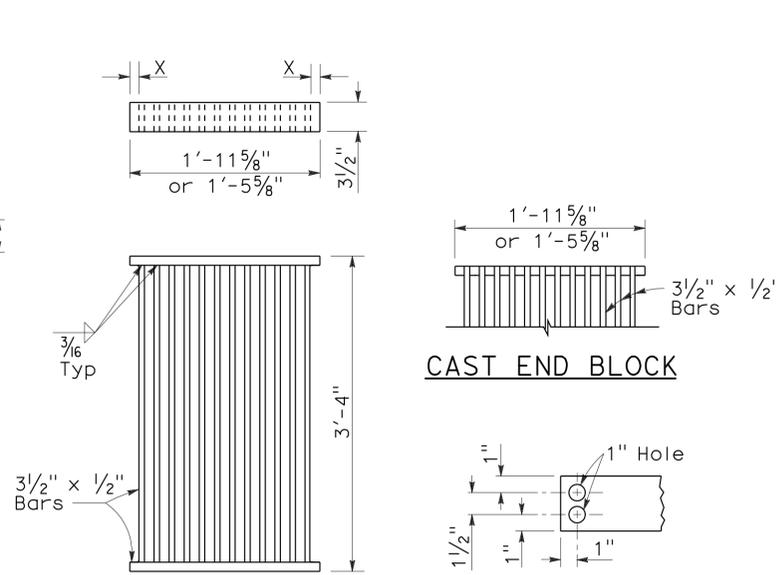
**ELECTRICAL SERVICE**  
 NO SCALE  
**E-2**



**RECTANGULAR GRATE DETAILS**  
(See table below)

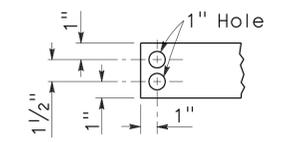


**ALTERNATIVE CAST NODULAR IRON GRATE OR CAST STEEL GRATE**

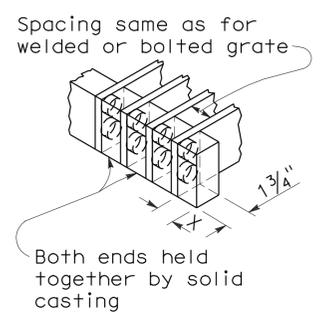


**ALTERNATIVE WELDED GRATE**

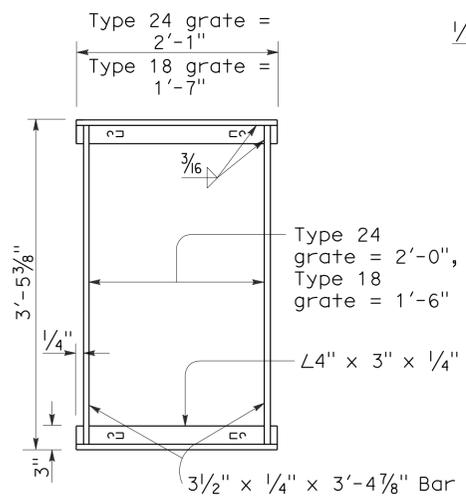
**CAST END BLOCK**



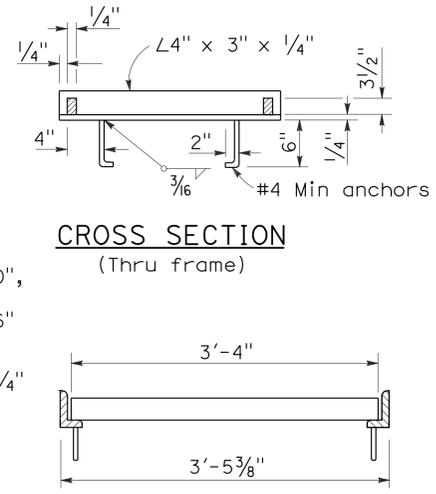
**END OF BAR**



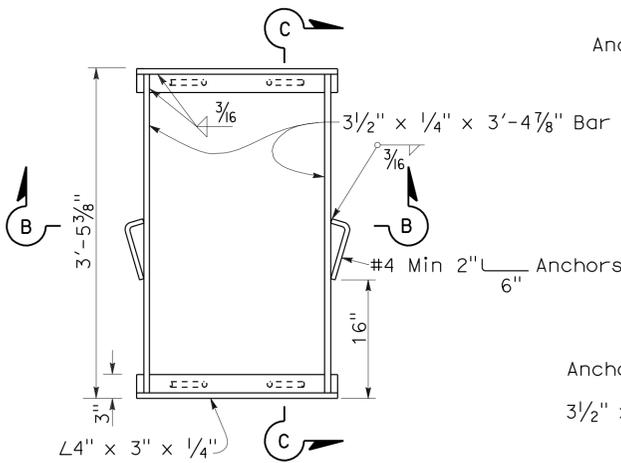
**ALTERNATIVE CAST NODULAR IRON OR CAST STEEL END BLOCK GRATE**



**TYPICAL FRAME**

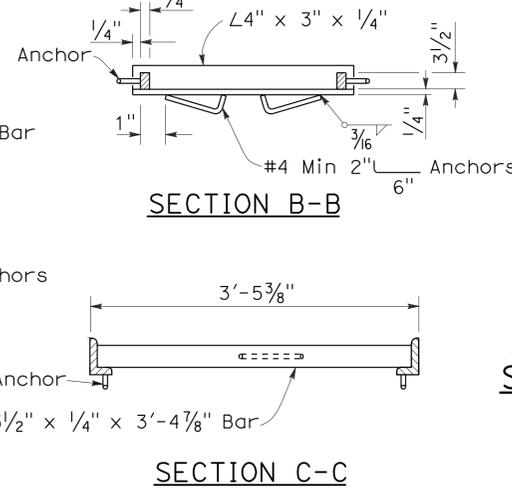


**LONGITUDINAL SECTION (Thru frame and grate)**



**TYPICAL FRAME**

**ALTERNATIVE ANCHOR FOR RECTANGULAR FRAME**  
(For details not shown, See Rectangular Frame Details)



**SECTION B-B**

**SECTION C-C**

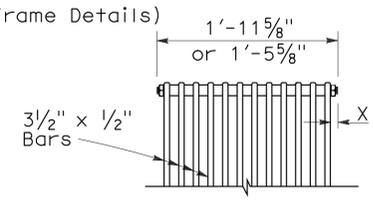
**RECTANGULAR FRAME DETAILS**  
(For all rectangular grates)

**GRATE BAR SPACING TABLE**

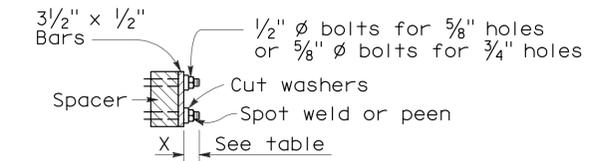
TYPE	NO. OF BARS	CLEAR BAR SPACING	X
18-9	9	1 3/8"	1 1/16"
24-9	9	2"	1 9/16"
24-12	12	1 3/8"	1 1/4"

INLET TYPE	COVER TYPE	WEIGHT LB
OS	PLATE	174
OL-7	PLATE	170
OL-10	PLATE	170
OL-14	PLATE	170
OL-21	PLATE	170
OCPI	PLATE	112
OCPI	REDWOOD	42
OMP	PLATE	177
OMPI	PLATE	177

INLET TYPE	GRATE TYPE	NO. OF GRATES	WEIGHT LB
GDO	24-12	2	634
GOL-7	24-12	1	326
GOL-10	24-12	1	326
G0,G1,G2,G3,G4 (TYPE 24)	24-9	1	263
	24-12	1	326
G4 (TYPE 18),G5,G6	18-9	1	249
GT1	18-9	2	498
GT2	18-9	2	498
GT3	24-12	2	652
GT4	24-12	2	652
TRASH RACK			22

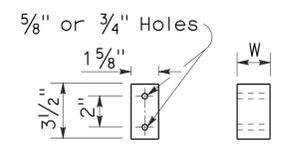


**BOLTED END BLOCK**

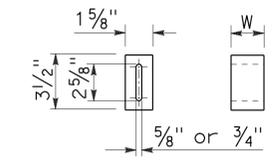


**BOLTING DETAIL**

**ALTERNATIVE BOLTED GRATE**



**BAR SPACER**



**ALTERNATIVE SPACER**  
W = 1 3/8" or 2"

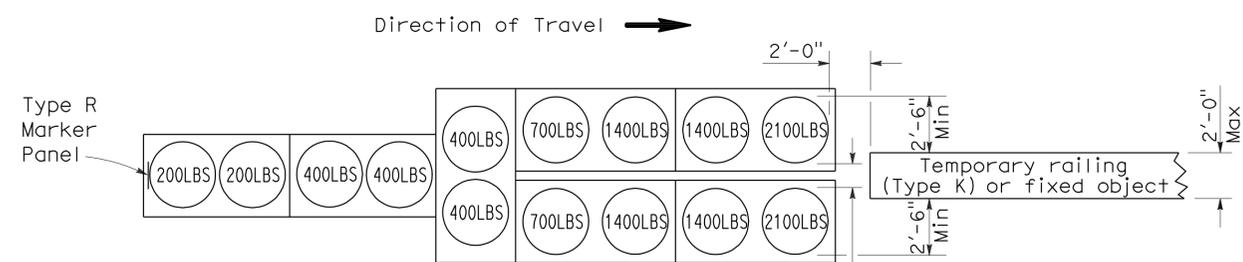
**BASIS FOR MISC IRON & STEEL FINAL PAY WEIGHTS FOR DRAINAGE INLETS**  
(See General Notes, No 8)

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**GRATE DETAILS**  
 NO SCALE

RSP D77A DATED JANUARY 18, 2008 SUPERSEDES STANDARD PLAN D77A  
 DATED MAY 1, 2006 - PAGE 155 OF THE STANDARD PLANS BOOK DATED MAY 2006.

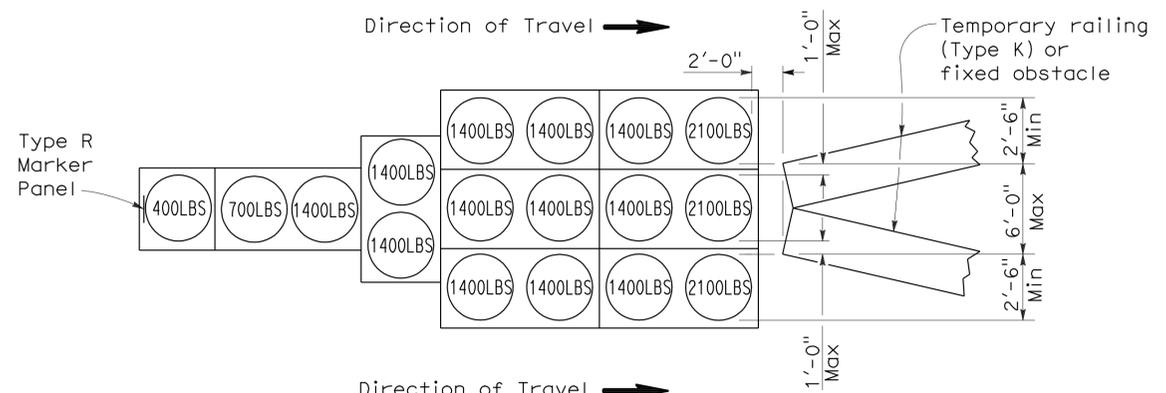
To accompany plans dated 11-17-08

2006 REVISED STANDARD PLAN RSP T1A



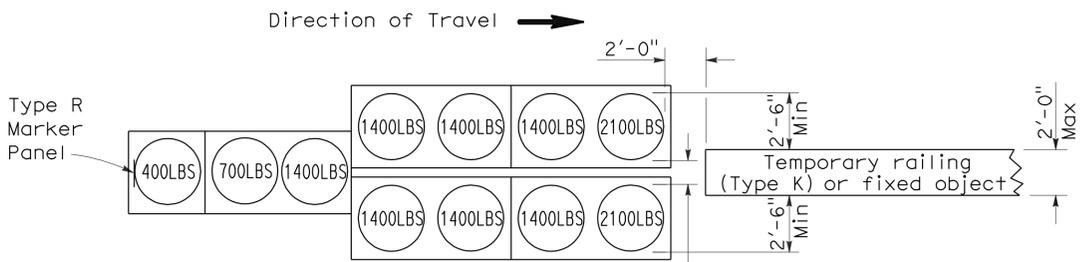
**ARRAY 'TU14'**

Approach speed 45 mph or more



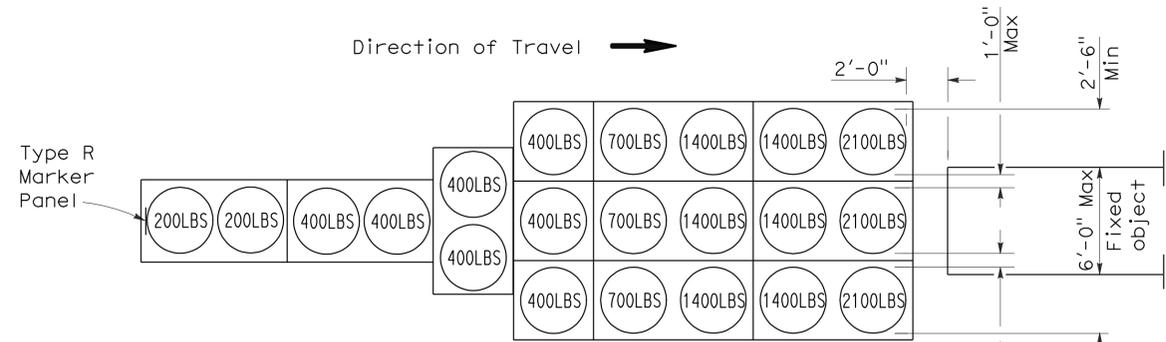
**ARRAY 'TU17'**

Approach speed less than 45 mph



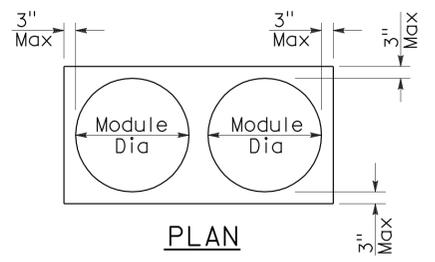
**ARRAY 'TU11'**

Approach speed less than 45 mph

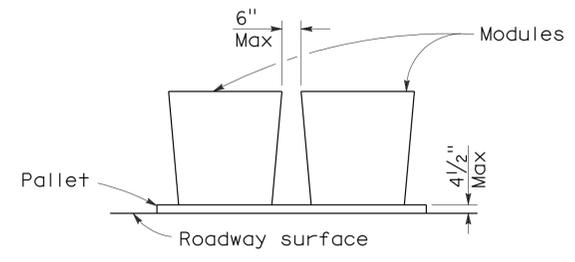


**ARRAY 'TU21'**

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 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**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		15	102

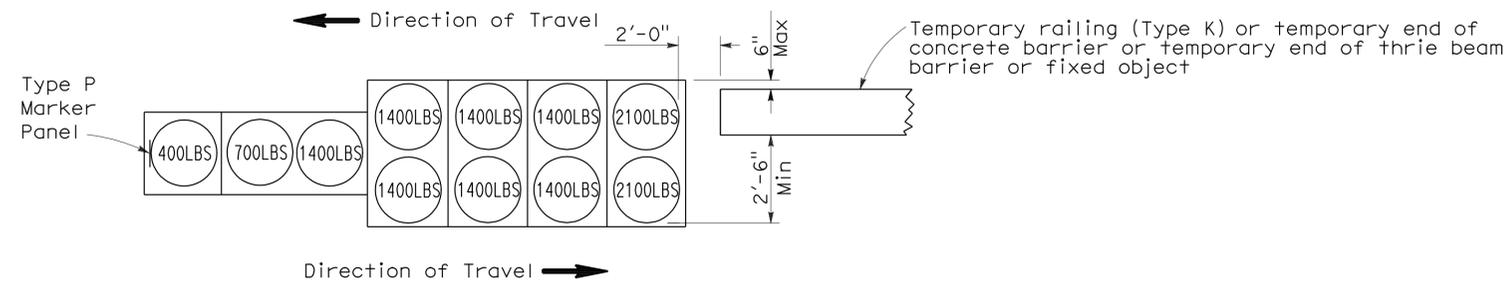
Randell D. Hiatt  
REGISTERED CIVIL ENGINEER

June 6, 2008  
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.

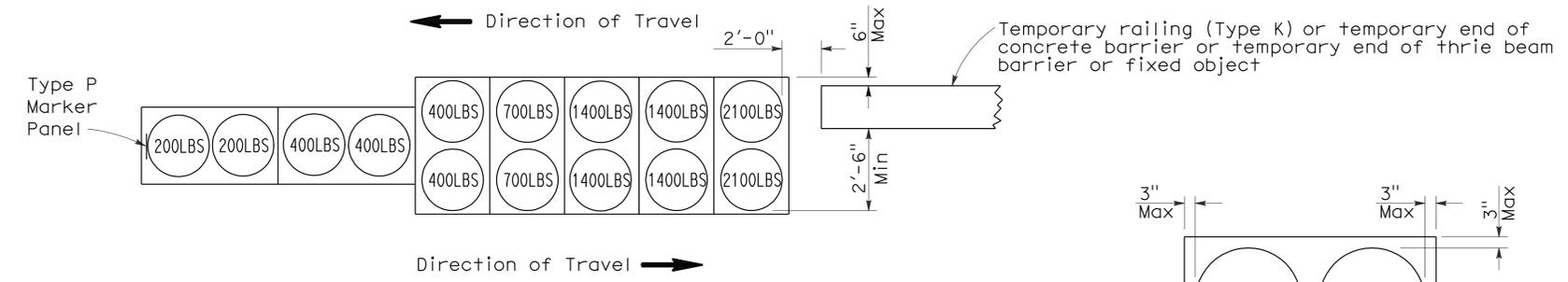
REGISTERED PROFESSIONAL ENGINEER  
Randell D. Hiatt  
No. C50200  
Exp. 6-30-09  
CIVIL  
STATE OF CALIFORNIA

To accompany plans dated 11-17-08



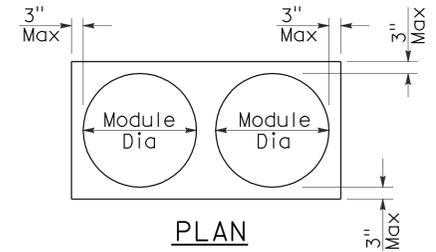
**ARRAY 'TB11'**

Approach speed less than 45 mph

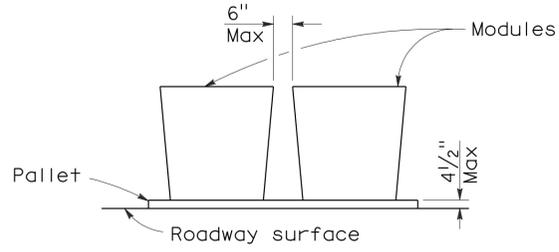


**ARRAY 'TB14'**

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	Iny	5505		16	102

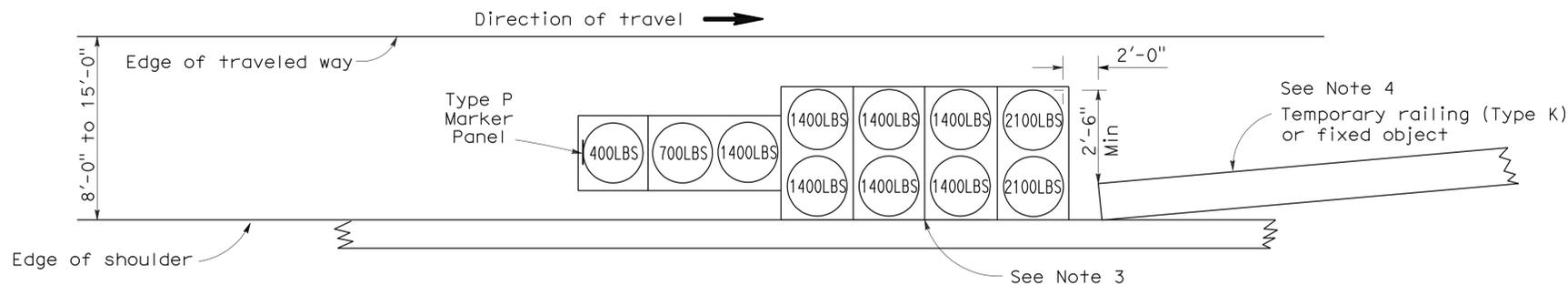
**Randell D. Hiatt**  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

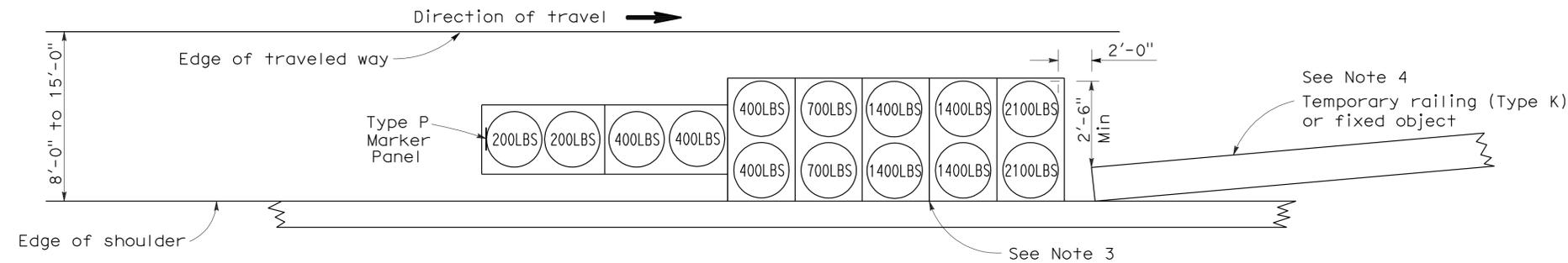
**Randell D. Hiatt**  
REGISTERED PROFESSIONAL ENGINEER  
No. C50200  
Exp. 6-30-09  
CIVIL  
STATE OF CALIFORNIA

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.

To accompany plans dated 11-17-08



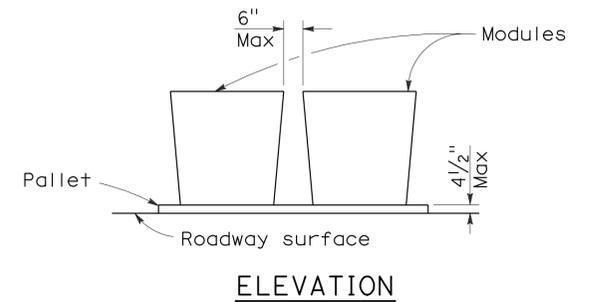
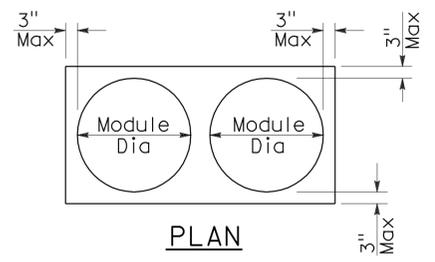
**ARRAY 'TS11'**  
Approach speed less than 45 mph  
See Note 9



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

**NOTES:**

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



**CRASH CUSHION PALLET DETAIL**  
See Note 11

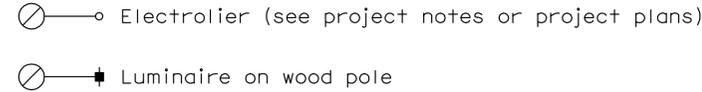
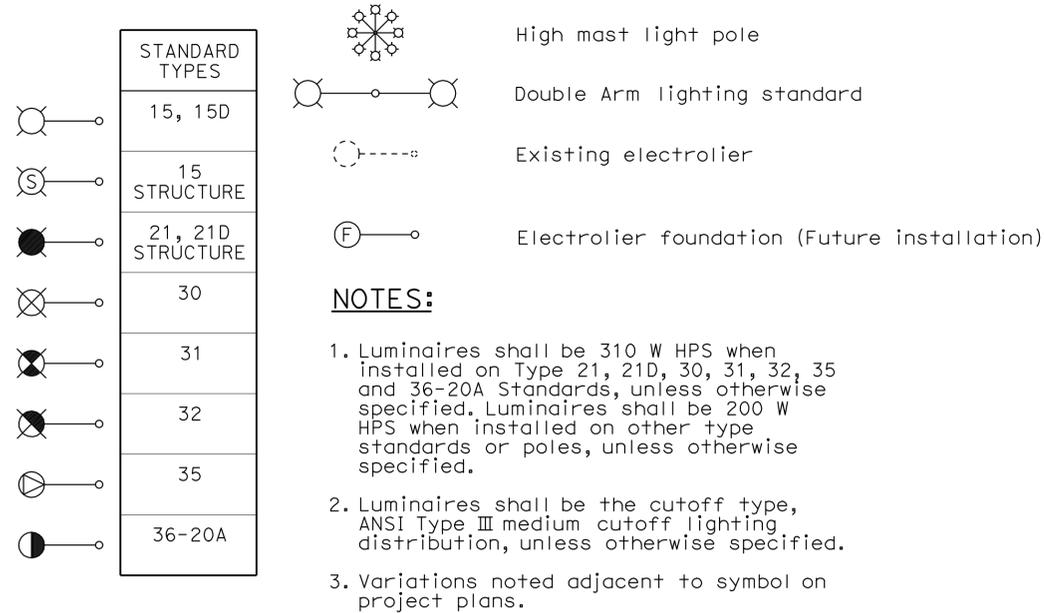
STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**TEMPORARY CRASH CUSHION,  
SAND FILLED  
(SHOULDER INSTALLATIONS)**  
NO SCALE

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

**REVISED STANDARD PLAN RSP T2**

2006 REVISED STANDARD PLAN RSP T2

# ELECTROLIERS



## STANDARD NOTES:

- AB** Abandon. If applied to conduit, remove conductors.
- BC** Install pull box in existing conduit run.
- BP** Pedestrian barricade, type as indicated on plan.
- CB** Install conduit into existing pull box.
- CC** Connect new and existing conduit. Remove existing conductors and install conductors as indicated.
- CF** Conduit to remain for future use. Remove conductors. Install pull wire or rope.
- DH** Detector handhole.
- FA** Foundation to be abandoned.
- IS** Install sign on signal mast arm.
- NS** No slip base on standard.
- PEC** Photoelectric control.
- PEU** Photoelectric unit.
- RC** Equipment or material to be removed and become the property of the Contractor.
- RE** Remove electrolier, fuses and ballast. Tape ends of conductors.
- RL** Relocate equipment.
- RR** Remove and reuse equipment.
- RS** Remove and salvage equipment.
- SC** Splice new to existing conductors.
- SD** Service disconnect.
- SF** Standard to remain for future use. Remove luminaire, pole conductors, fuses and ballast.
- TSP** Telephone service point.

# ABBREVIATIONS AND EQUIPMENT DESIGNATIONS

## PROPOSED EXISTING

BBS	bbs	Battery backup system
BC	bc	Bolt circle
C	C	Conduit
CCTV	cctv	Closed circuit television
CKT	ckt	Circuit
CMS	cms	Changeable message sign
DLC	dlc	Loop detector lead-in cable
EMS	ems	Extinguishable message sign
EVC	evc	Emergency vehicle cable
EVD	evd	Emergency vehicle detector
FB	fb	Flashing beacon
FBCA	fbca	Flashing beacon control assembly
FBS	fbs	Flashing beacon with slip base
FO	fo	Fiber optic
G	G	Ground (Equipment Grounding Conductor)
GFCI	GFCI	Ground fault circuit interrupt
HAR	har	Highway advisory radio
HEX	hex	Hexagonal
HPS	hps	High pressure sodium
IISNS	iisns	Internally illuminated street name sign
ISL	isl	Induction sign lighting
LED	led	Light emitting diode
LMA	lma	Luminaire mast arm
LPS	lps	Low pressure sodium
LTG	ltg	Lighting
LUM	lum	Luminaire
MAT	mat	Mast arm mounting vehicle signal faces, top attachment
MAS	mas	Mast arm mounting vehicle signal faces, side attachment
MAS-4A	mas-4A	Mast arm mounting vehicle signal faces, side attachment - 4 signal section
MAS-4B	mas-4B	
MAS-4C	mas-4C	
MAS-5A	mas-5A	Mast arm mounting vehicle signal faces, side attachment - 5 signal section
MAS-5B	mas-5B	
MC	mc	Mercury contactor
M/M	m/m	Multiple to multiple transformer
MT	mt	Conduit with pull wire or rope only
MTG	mtg	Mounting
	mv	Mercury vapor lighting fixture
N	N	Neutral (Grounded Conductor)
NC	NC	Normally closed
NO	NO	Normally open
PB	pb	Pull box
PEC	pec	Photoelectric control (Type I, II, III, IV or V as shown)
PED	ped	Pedestrian
PEU	peu	Photoelectric unit
PPB	ppb	Pedestrian push button
RL		Relocated equipment
RM	rm	Ramp metering
SB	sb	Slip base
SIC	sic	Signal interconnect cable
SIG	sig	Signal
SMA	sma	Signal mast arm
SNS	sns	Street name sign
SP	sp	Service point
TDC	tdc	Telephone demarcation cabinet
TMS	tms	Traffic monitoring station
TOS	tos	Traffic Operations System
VEH	veh	Vehicle
XFMR	xfmr	Transformer
COMM	comm	Communication
RWIS	rwis	Roadway weather information system

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		17	102

*Jeffery G. McRae*  
REGISTERED ELECTRICAL ENGINEER

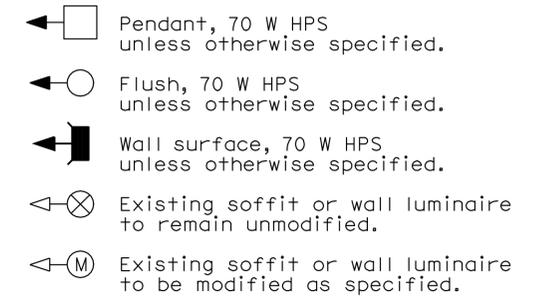
October 5, 2007  
PLANS APPROVAL DATE

Jeffery G. McRae  
No. E14512  
Exp. 6-30-08  
ELECTRICAL  
STATE OF CALIFORNIA

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

To accompany plans dated 11-17-08

## SOFFIT AND WALL MOUNTED LUMINAIRES



### NOTE:

Arrow indicates "street side" of luminaire.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

# ELECTRICAL SYSTEMS (SYMBOLS AND ABBREVIATIONS)

NO SCALE

RSP ES-1A DATED OCTOBER 5, 2007 SUPERSEDES STANDARD PLAN ES-1A  
DATED MAY 1, 2006 - PAGE 400 OF THE STANDARD PLANS BOOK DATED MAY 2006.

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

2006 REVISED STANDARD PLAN RSP ES-1A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		18	102

Jeffrey G. McRae  
 REGISTERED ELECTRICAL ENGINEER  
 October 5, 2007  
 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.

To accompany plans dated 11-17-08

### CONDUIT

PROPOSED	EXISTING	
---	---	Lighting Conduit, unless otherwise indicated or noted
---	---	Traffic signal conduit
-C-	-c-	Communication conduit
-T-	-t-	Telephone conduit
-F-	-f-	Fire alarm conduit
-FO-	-fo-	Fiber optic conduit
---	---	Conduit termination
		Conduit riser in/on structure or service pole

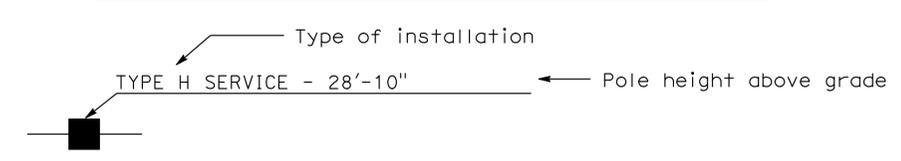
### SIGNAL EQUIPMENT

PROPOSED	EXISTING	
		Pedestrian signal face
		Pedestrian push button post
		Pedestrian barricade
		Vehicle signal face (with backplate, 3-Section: red, yellow and green)
		Vehicle signal face with angle visors
		Modifications of basic symbols: "L" indicates all non-arrow sections louvered "LG" indicates louvered green section only "PV" indicates 12" programmed visibility sections "8" indicates all 8" sections (only when specified)
		Type 15TS and Vehicle signal face
		Vehicle signal face with red, yellow and green left arrow sections
		Vehicle signal face with red and yellow sections and up green arrow
		Vehicle signal face (5 Section) with red, yellow and green sections and yellow and green right arrows
		Type 1 Standard and attached vehicle signal faces
		Standard with signal mast arm only and attached vehicle signal faces and internally illuminated street name sign
		Type 33 Standard, Left-turn vehicle signal face and sign
		Standard with luminaire and signal mast arms and attached vehicle signal faces
		Cantilever flashing beacon Type 9 Frame, with a sign unless otherwise specified or indicated
		Type 15-FBS Standard with two vehicle signal face sections with lens, backplate and visor with a sign
		Flashing beacon. One vehicle signal face section with lens, backplate and visor. "R" indicates red indication, "Y" indicates yellow indication
		Controller assembly. Door indicates front of cabinet

### SERVICE EQUIPMENT

PROPOSED	EXISTING	
---OH	---oh	Overhead lines
		Wood pole "U" indicates utility owned
		Pole guy with anchor
		Utility transformer - ground mounted
		Service equipment enclosure type
		Service equipment enclosure door indicates front of enclosure
		Telephone demarcation cabinet

### POLE-MOUNTED SERVICE DESIGNATION



### ILLUMINATED OVERHEAD SIGN

PROPOSED	EXISTING	
		Overhead sign - Single post
		Overhead sign - Two post
		Overhead sign - Mounted on structure
		Overhead sign with electrolier

### SIGNAL EQUIPMENT Cont

PROPOSED	EXISTING	
		Guard post
		Type 1 Standard with "Meter On" sign
		Emergency Vehicle detector

### NOTES:

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

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**ELECTRICAL SYSTEMS  
 (SYMBOLS AND ABBREVIATIONS)**  
 NO SCALE

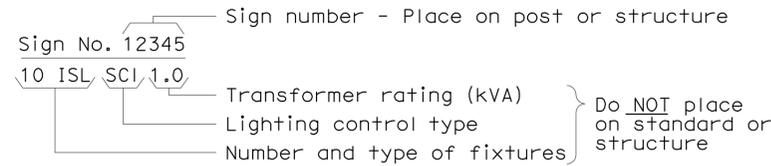
RSP ES-1B DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-1B  
 DATED MAY 1, 2006 - PAGE 401 OF THE STANDARD PLANS BOOK DATED MAY 2006.

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

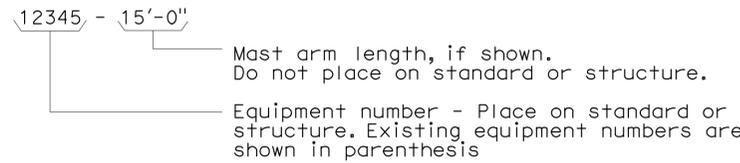
2006 REVISED STANDARD PLAN RSP ES-1B

### EQUIPMENT IDENTIFICATION

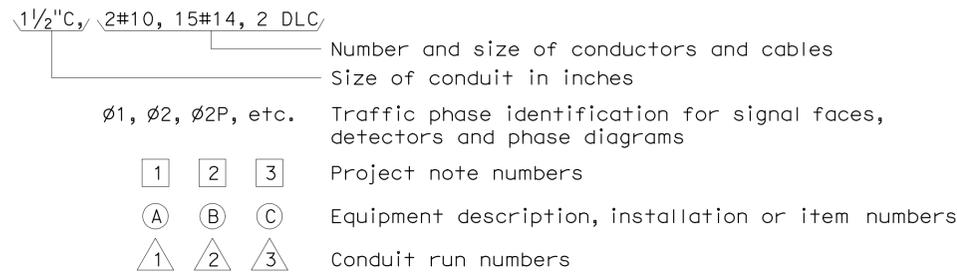
#### ILLUMINATED SIGN IDENTIFICATION NUMBER:



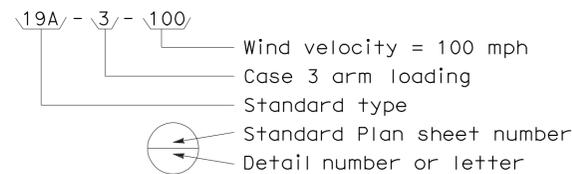
#### ELECTROLIER OR EQUIPMENT IDENTIFICATION NUMBER:



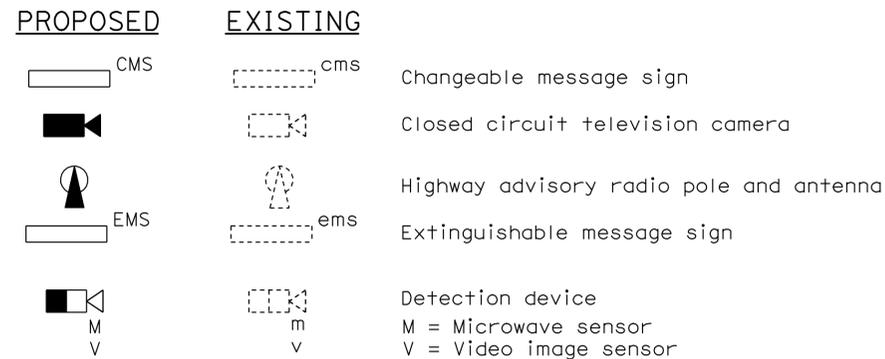
#### CONDUIT AND CONDUCTOR IDENTIFICATION:



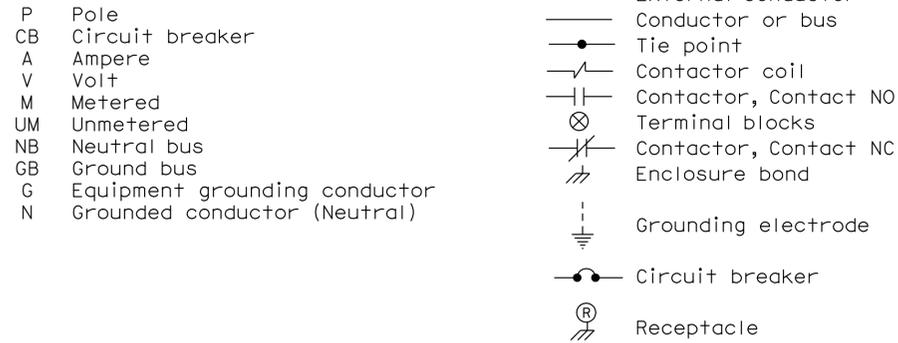
#### SIGNAL AND LIGHTING STANDARD (TYPICAL DESIGNATION):



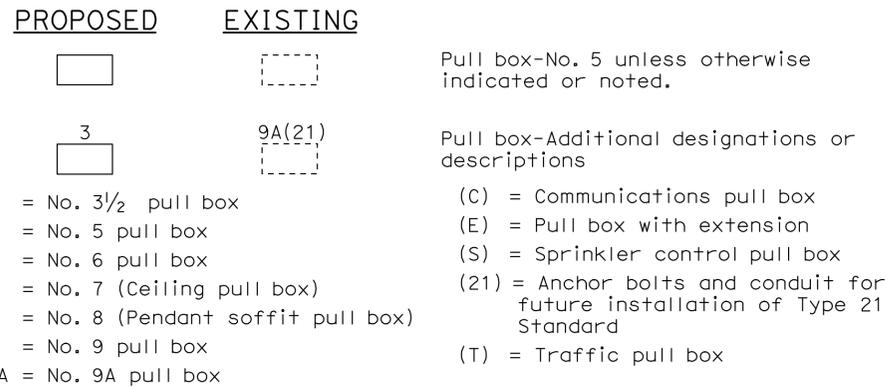
### MISCELLANEOUS EQUIPMENT



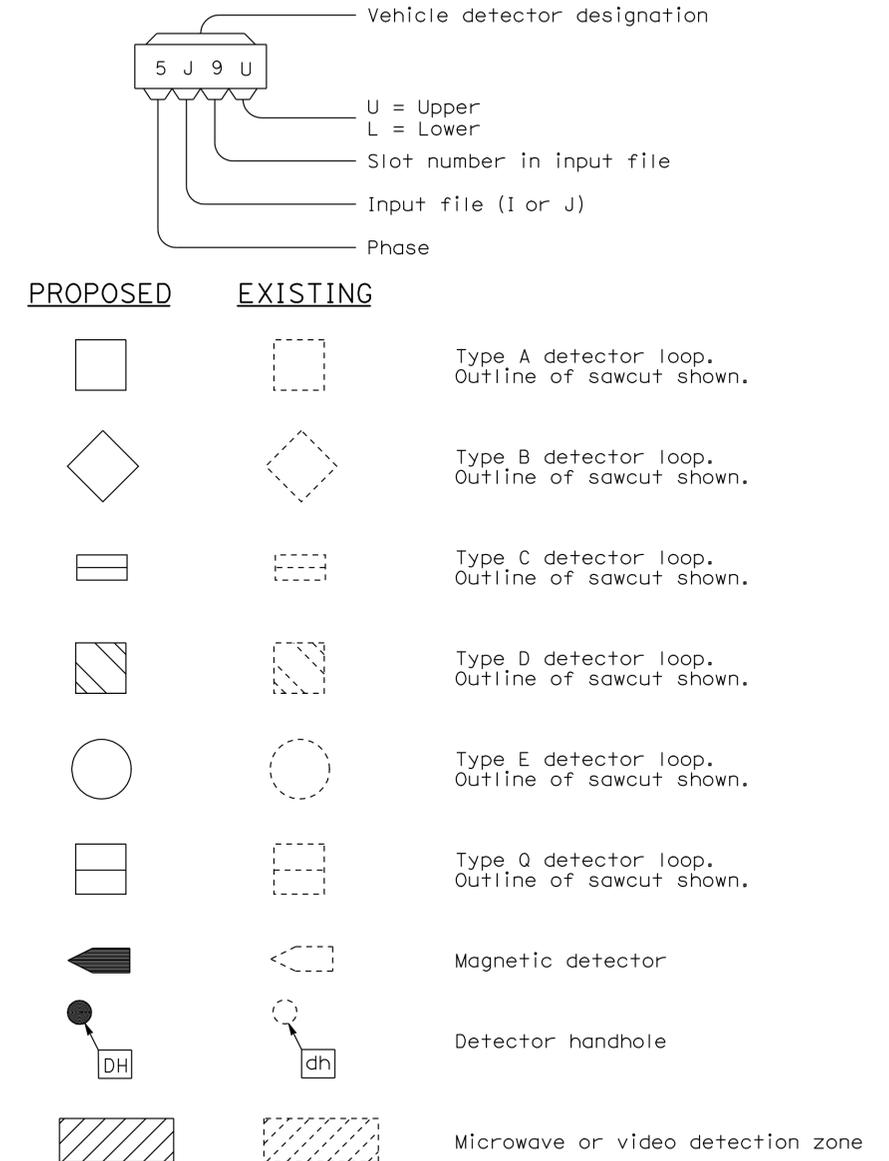
### WIRING DIAGRAM LEGEND



### PULL BOXES



### VEHICLE DETECTORS



STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

## ELECTRICAL SYSTEMS (SYMBOLS AND ABBREVIATIONS)

NO SCALE

RSP ES-1C DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-1C  
DATED MAY 1, 2006 - PAGE 402 OF THE STANDARD PLANS BOOK DATED MAY 2006.

2006 REVISED STANDARD PLAN RSP ES-1C

INDEX OF SHEETS

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		20	102

 08/29/08  
 LICENSED ARCHITECT DATE  


11-17-08  
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.*

**ARCHITECTURAL**

GP-1 GENERAL PLAN- SHEET INDEX AND ACCESSIBILITY NOTES  
 GP-2 GENERAL PLAN- SITE PLAN  
 AO-1 ABBREVIATIONS, NOTES, SYMBOLS  
 AO-2.1 ENERGY COMPLIANCE FORMS  
 AO-2.2 ENERGY COMPLIANCE FORMS  
 AO-2.3 ENERGY COMPLIANCE FORMS  
 AO-3.1 ACCESSIBILITY STANDARD DETAILS (OMIT)  
 AO-3.2 ACCESSIBILITY STANDARD DETAILS  
 AO-3.3 ACCESSIBILITY STANDARD DETAILS  
 AO-3.4 ACCESSIBILITY STANDARD DETAILS (OMIT)  
 AO-3.5 ACCESSIBILITY STANDARD DETAILS

WELDING SHOP

AI-1 FLOOR PLAN AND ELEVATIONS  
 AI-2 BUILDING SECTION AND SCHEDULES

MOTOR REPAIR SHOP

A2-1 FLOOR PLAN  
 A2-2 EXTERIOR ELEVATIONS  
 A2-3 SCHEDULES  
 A2-4 INTERIOR ELEVATIONS

WASH RACK BUILDING

A3-1 FLOOR PLAN, ELEVATIONS, AND SCHEDULES

TIRE SHED

A4-1 FLOOR PLAN AND ELEVATIONS  
 A4-2 SCHEDULES

SERVICE BAY ADDITION

A5-1 FLOOR PLAN AND ELEVATIONS  
 A5-2 PLANS AND BUILDING SECTIONS  
 A5-3 SCHEDULES  
 A5-4 INTERIOR ELEVATIONS

DETAILS

A6-1 WALL AND ROOF DETAILS  
 A6-2 MISCELLANEOUS DETAILS  
 A6-3 DOOR DETAILS  
 A6-4 CANOPY PLAN, ELEVATIONS, AND DETAILS  
 A6-5 MISCELLANEOUS DETAILS  
 A6-6 MISCELLANEOUS DETAILS  
 A6-7 MISCELLANEOUS DETAILS  
 A6-8 MISCELLANEOUS DETAILS

**STRUCTURAL**

ST-0 STRUCTURAL PLAN  
 ST-1 LEGEND  
 ST1-A WOOD FRAMING STANDARD- NOTES  
 ST1-B WOOD FRAMING STANDARD- DETAILS  
 ST-2 CONCRETE STANDARD

WELDING SHOP

ST1-1 BUILDING MODIFICATION PLAN  
 ST1-2 BUILDING MODIFICATION ELEVATIONS  
 ST1-3 BUILDING MODIFICATION DETAILS

MOTOR REPAIR SHOP

ST2-1 FOUNDATION PLAN  
 ST2-2 BUILDING MODIFICATION ELEVATIONS  
 ST2-3 BUILDING MODIFICATION ELEVATION  
 ST2-4 BUILDING MODIFICATION DETAILS  
 ST2-5 OPENING MODIFICATION DETAILS

SERVICE BAY ADDITION

ST5-1 FOUNDATION PLAN  
 ST5-2 PRE-ENGINEERED RIGID FRAME SECTION  
 ST5-3 RIGID FRAME DETAILS

DETAILS

ST6-1 EVAPORATIVE COOLER PLATFORM PLAN  
 ST6-2 EVAPORATIVE COOLER PLATFORM SECTIONS  
 ST6-3 EVAPORATIVE COOLER PLATFORM DETAILS

**MECHANICAL**

MO-0 LEGEND

MO-1 EXISTING SITE PLAN  
 MO-2 MODIFIED SITE PLAN

WELDING SHOP

MI-1 EXISTING HVAC PLAN  
 MI-2 MODIFIED HVAC PLAN

MOTOR REPAIR SHOP

M2-1 EXISTING HVAC PLAN  
 M2-2 MODIFIED HVAC PLAN  
 M2-3 BOILER ROOM MODIFICATIONS

WASH RACK BUILDING

M3-1 HEATER PLAN

SERVICE BAY ADDITION

M5-1 PIPING PLAN  
 M5-2 HVAC PLAN  
 M5-3 PIPING SCHEMATIC

DETAILS

M6-1 EQUIPMENT LIST  
 M6-2 MECHANICAL DETAILS I  
 M6-3 MECHANICAL DETAILS II  
 M6-4 MECHANICAL DETAILS III  
 M6-5 MECHANICAL DETAILS IV  
 M6-6 MECHANICAL DETAILS V  
 M6-7 MECHANICAL DETAILS VI

**ELECTRICAL**

EE0-0 LEGEND

EE0-1 PARTIAL ELECTRICAL SITE PLAN

WELDING SHOP

EE1-1 HEATER CONTROL PLAN  
 EE1-2 LIGHTING REMOVAL PLAN  
 EE1-3 LIGHTING PLAN

MOTOR REPAIR SHOP

EE2-1 PARTIAL POWER PLAN  
 EE2-2 PARTIAL LIGHTING AND HEATING PLAN

WASH RACK BUILDING

EE3-1 POWER PLAN

TIRE SHED

EE4-1 POWER PLAN

SERVICE BAY ADDITION

EE5-1 POWER PLAN  
 EE5-2 LIGHTING PLAN  
 EE5-3 COMMUNICATION PLAN

DETAILS

EE6-1 PANEL SCHEDULE AND DETAILS  
 EE6-2 PANEL ELEVATION AND DETAILS  
 EE6-3 WIRING DIAGRAM

<p>ACCESSIBILITY DESIGN APPROVAL STAMP                  DOT / DES / OTA  <b>09-310601</b>                  DISTRICT - EA</p> <p>Reviewed by:                   YA WANG                  Date: 08/26/08</p>	<p>CALIFORNIA STATE FIRE MARSHAL                  APPROVED</p> <p>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.</p> <p>Reviewed by:                   PAM EMTCK                  Approval date: 11/12/08</p>
---	--

**ACCESSIBILITY NOTES**

- ANY POT CONNECTING (E) BUILDINGS AND FACILITIES THAT DO NOT HAVE PROPOSED ALTERATION WORK ARE NOT REQUIRED TO BE INCLUDED IN THE SCOPE OF WORK.
- POTs INDICATED AT SITE PLAN SHALL BE THE MOST PRACTICAL DIRECT ROUTE BETWEEN EXISTING DISABLED PARKING SPACES AND VARIOUS EXISTING OR NEW DOORS AT AFFECTED BUILDINGS. EXACT LOCATIONS OF POTs SHALL BE DETERMINED BY THE FIELD ENGINEER. THE CONTRACTOR SHALL VERIFY AND REMOVE ANY BARRIERS AT ALL THE POTs TO COMPLY WITH ALL THE ITEMS BELOW. ALL THE DESIGNATED POTs SHALL BE STRIPED WITH BORDERS AND HATCHED LINES.
- POTs SHALL BE MIN 48" WIDE, MIN. 80" HEAD CLEARANCE, MAX. 5% SLOPE IN THE DIRECTION OF TRAVEL, MAX. 2% CROSS SLOPE, MAX. 1/2" LEVEL CHANGE W/ MAX 1:2 SLOPE, AND LEVEL CHANGE NOT EXCEEDING 1/4" MAY BE VERTICAL. ANY LEVEL CHANGE EXCEEDS 1/2" SHALL BE ACCOMMODATED BY CODE-COMPLIANT CURB RAMP, AND ANY SLOPE IN THE DIRECTION OF TRAVEL EXCEEDS 5% SHALL BE ACCOMMODATED BY CODE-COMPLIANT RAMP.
- IF ANY POTs ARE LESS THAN 60" WIDE, THEN PASSING SPACE AT LEAST 60"x60" SHALL BE LOCATED AT REASONABLE INTERVALS NOT TO EXCEED 200'.
- POTs SURFACE SHALL BE FIRM, STABLE, SLIP-RESISTANT, W/O LOOSE GRAVEL, SAND, CHIPS, ETC. ANY PLANTER/GRATE/COVER IN OR ADJACENT TO POTs SHALL REQUIRE EDGE PROTECTION OF MIN 6" HIGH CURB IF LEVEL CHANGE BETWEEN POT AND PLANTER/GRATE/COVER EXCEEDS 4".
- ALL (E) AND (N) DOORS CONNECTION POTs AS INDICATED AT SITE PLAN SHALL HAVE LEVEL AREAS AT BOTH SIDES OF DOORS W/ MAX. 2% SLOPE IN ANY DIRECTION. EXTERIOR LEVEL AREAS SHALL BE MIN 60"x60" IN THE DIRECTION OF DOOR SWING (INCLUDING MIN. 24" PAST DOOR STRIKE EDGE), AND MIN. 48" X 48" OPPOSITE DOOR SWING. INTERIOR 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.
- LEVEL CHANGE AT THE ABOVE DOORWAY, INCLUDING THRESHOLD THICKNESS, SHALL BE MAX 1/2"
- INTERIOR AISLES FORMED BY EQUIPMENT/STORED MATERIALS/ WALLS SHALL BE MIN. 36" WIDE IF SERVING ONE SIDE, AND MIN. 44" WIDE IF SERVING BOTH SIDES.
- THE ARCHITECT HAS VERIFIED THAT ALL THE EXISTING DISABLED PARKING SPACES AND RELATED ITEMS ARE CODE COMPLIANT, EXCEPT AS NOTED ON SITE PLAN.
- POT IS NOT REQUIRED FROM (E) FENCE GATE ABUTTING PUBLIC STREETS, WHICH DO NOT HAVE PUBLIC TRANSPORTATION

 DESIGN SUPERVISOR DESIGN ARCHITECT	DESIGNER LANI RHOADES	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. 5505	GENERAL PLAN	SHOP 29 FACILITY REMODEL GENERAL PLAN- SHEET INDEX AND ACCESSIBILITY NOTES	SHEET OF GP-1 X X
	DRAWN BY LANI RHOADES	STRUCTURAL REVIEW XX				POST MILE			
a-gp1.dgn DS OSD Imperial Rev. 11/98 04-JAN-2010 07:10				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	CU 09 123 EA 310601	DISREGARD PRINTS BEARING EARLIER REVISION DATES			SHEET OF X X

04-JAN-2010 07:10

BUILDING DATA					
THE BUILDING WORK ON THIS PROJECT HAS BEEN DESIGNED TO CONFORM TO THE 2007 TITLE 24 CALIFORNIA BUILDING STANDARDS CODE.					
BUILDING NAME	BUILDING AREA	ALLOWABLE AREA	ALLOWABLE AREA SPRINKLERED	CONSTRUCTION TYPE	OCCUPANCY GROUP
WELDING SHOP (BUILDING #1)	4950 SQ FT	9000 SQ FT (PER CBC SECT 503.1.2 TABLE 503) (AREA COMPLIES)	27,000 SQ FT (PER CBC SECT 506.3)	V-B	S-1
MOTOR REPAIR SHOP (BUILDING #2) SERVICE BAY ADDITION AND CANOPY (BUILDING #5)	13,045 SQ FT +2555 SQ FT 15,600 SQ FT TOTAL	9000 SQ FT (PER CBC SECT 503.1.2 TABLE 503) (AREA COMPLIES)	27,000 SQ FT (PER CBC SECT 506.3) (AREA COMPLIES)	V-B	S-1
WASH RACK BUILDING (BUILDING #3)	2356 SQ FT	9000 SQ FT (PER CBC SECT 503.1.2 TABLE 503) (AREA COMPLIES)	N/A	V-B	S-1
TIRE SHED (BUILDING #4)	1925 SQ FT	9000 SQ FT (PER CBC SECT 503.1.2 TABLE 503) (AREA COMPLIES)	N/A	V-B	S-1
OFFICE BUILDING (BUILDING #6)	4105 SQ FT	9000 SQ FT (PER CBC SECT 503.1.2 TABLE 503) (AREA COMPLIES)	N/A	V-B	B

**LIST OF 2007 CALIFORNIA CODE OF REGULATION (CCR)**

2007 BUILDING STANDARD ADMINISTRATIVE CODE : PART 1, TITLE 24 CCR  
 2007 CALIFORNIA BUILDING CODE (CBC) ,PART 2 , TITLE 24 CCR  
 2007 CALIFORNIA ELECTRICAL CODE (CEC) ,PART 3, TITLE 24 CCR  
 2007 CALIFORNIA MECHANICAL CODE (CMC) ,PART 4 , TITLE 24 CCR  
 2007 CALIFORNIA PLUMBING CODE (CPC) ,PART 5 , TITLE 24 CCR  
 2007 CALIFORNIA FIRE CODE (CFC) , PART 9 , TITLE 24 , CCR  
 2007 CALIFORNIA REFERENCED STANDARDS CODE , PART 12 , TITLE 24 , CCR  
 TITLE 19,CCR , PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS  
 CURRENT EDITION OF AMERICANS WITH DISABILITIES ACT  
 2007 CALIFORNIA ENERGY CODE, PART 6, TITLE 24, CCR

**DEFERRED APPROVAL(SFM)**

① AUTOMATIC FIRE SPRINKLER SYSTEM WITH SUPERVISED/MONITORED ALARM SYSTEM

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		21	102

*Lani Rhoades* 08/29/08  
 LICENSED ARCHITECT DATE

11-17-08  
 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.

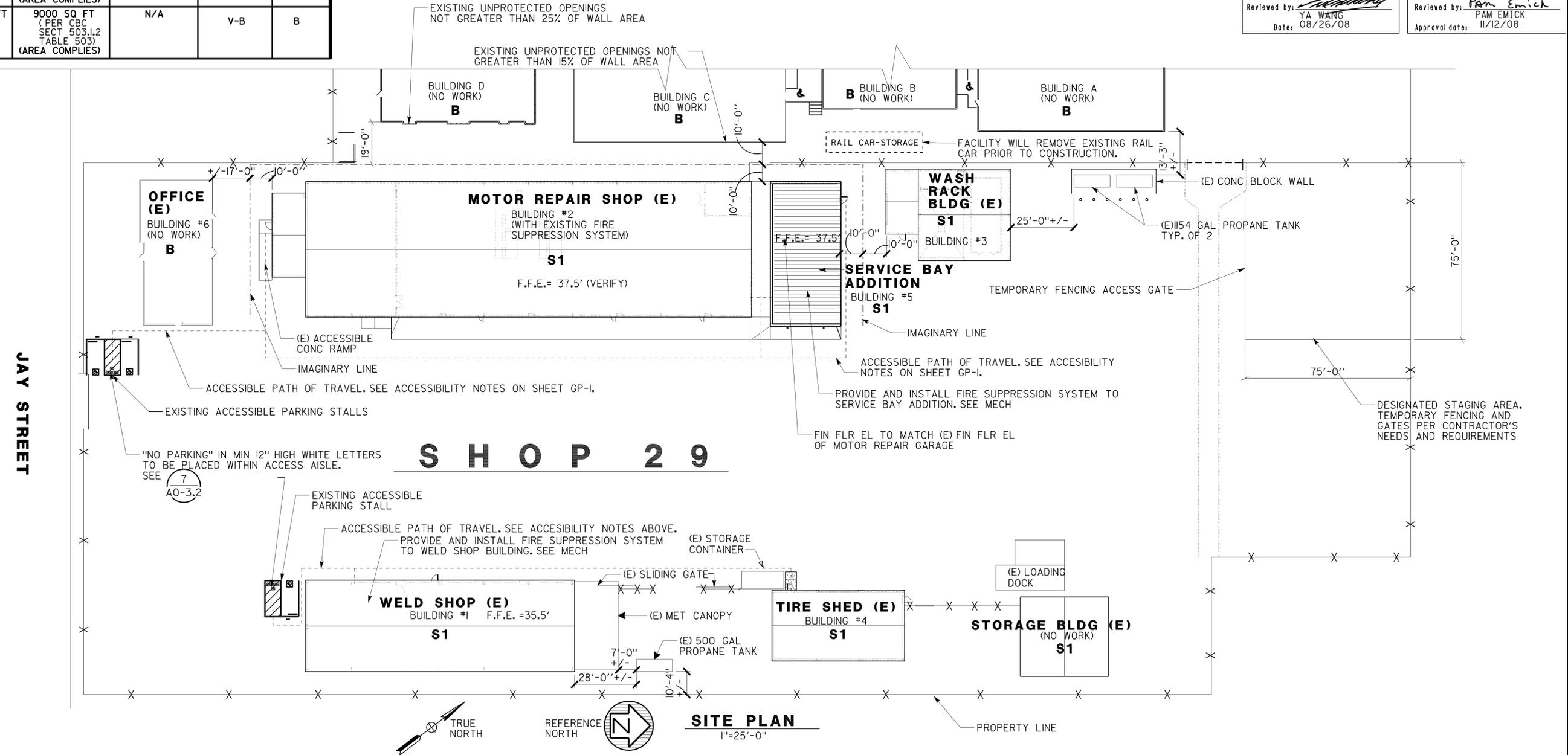
**ACCESSIBILITY DESIGN APPROVAL STAMP**  
 DOT / DES / OTA  
**09-310601**  
 DISTRICT - EA

Reviewed by: *Ya Wang*  
 Date: 08/26/08

**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: 11/12/08



<i>RE Travis</i> DESIGN SUPERVISOR <i>Lani Rhoades</i> DESIGN ARCHITECT	DESIGNER LANI RHOADES	CHECKED BY CECILIA FAUST	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. 5505	<b>SHOP 29 FACILITY REMODEL</b> GENERAL PLAN- SITE PLAN	SHEET OF GP-2
	DRAWN BY LANI RHOADES	STRUCTURAL REVIEW XX				POST MILE		GENERAL PLAN

A-GP2.dgn ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 CU 09 123 EA 310601 DISREGARD PRINTS BEARING EARLIER REVISION DATES

04-JAN-2010 07:10

# ARCHITECTURAL ABBREVIATIONS

&	AND	EQ	EQUAL	M	METER	S	SOUTH
L	ANGLE	EPB	ELECTRICAL PANELBOARD	MAT	MATERIAL	SC	SOLID CORE
⊕	CENTER LINE	EQUIP	EQUIPMENT	MAX	MAXIMUM	SCHED	SCHEDULE
⊙	DIAMETER OR ROUND	ESCL	ESCALATOR	MB	MACHINE BOLT	SD	SOAP DISPENSER
□	SQUARE	EWC	ELECTRIC WATER COOLER	MBR	MEMBER	SM	SQUARE METERS
d	PENNY	EXP	EXPANSION	MECH	MECHANICAL	ST	SELF TAPPING
25°	DEGREE	EXPO	EXPOSED, EXPOSURE	MEMB	MEMBRANE	SF	SQUARE FEET
AFF	ABOVE FINISH FLOOR	EXT	EXTERIOR	MET	METAL	SH	SELF
APL	ASSUMED PROPERTY LINE	EVAC	EVACUATION	MFR	MANUFACTURER	SHWR	SHOWER
A/C	AIR CONDITIONING	FD	FLOOR DRAIN	MH	MAN HOLE	SHT	SHEET
AC	ASPHALT CONCRETE	FDN	FOUNDATION	MIN	MINIMUM	SHTG	SHEATHING
AB	ANCHOR BOLT	FE	FIRE EXTINGUISHER	MIR	MIRROR	SIM	SIMILAR
ABV	ABOVE	FEC	FIRE EXTINGUISHER CABINET	MISC	MISCELLANEOUS	SMS	SHEET METAL SCREW
ACOUS	ACOUSTICAL	FG	FINISH GRADE	MIW	MALLEABLE IRON	SOHD	SECTIONAL OVERHEAD DOOR
ADJ	ADJUSTABLE	FH	FIRE HYDRANT	MM	MILLIMETER	SNR	SANITARY NAPKIN RECEPTACLE
ALT	ALTERNATE	FHC	FIRE HOSE CABINET	MO	MASONRY OPENING	SPEC	SPECIFICATION
ALUM	ALUMINUM	FHMS	FLATHEAD METAL SCREW	MTD	MOUNTED	SPS	STRUCTURAL PLYWOOD
APA	AMERICAN PLYWOOD ASSOCIATION	FINS	FLATHEAD WOOD SCREW FINISH	MUL	MULLION	SQ	SQUARE
APPROX	APPROXIMATE	FJ	FLOOR JOIST	N	NORTH	SRRA	SAFETY ROADSIDE REST AREA
ARCH	ARCHITECTURAL, ARCHITECT	FLSH	FLASHING	NIC	NOT IN CONTRACT	SST	SERVICE SINK
ASPH	ASPHALT	FLR	FLOOR	NO	NOT IN CONTRACT NUMBER	STA	STAINLESS STEEL STATION
BD	BOARD	FLUOR	FLUORESCENT	NOM	NOMINAL	STAG	STAGGER
BIT	BITUMINOUS	FOC	FACE OF CONCRETE	NTS	NOT TO SCALE	STD	STANDARD
BLDG	BUILDING	FOP	FACE OF PLYWOOD	OBSC	OBSCURE	STL	STEEL
BLK	BLOCK	FOM	FACE OF MASONRY	OC	ON CENTER	STOR	STORAGE
BLKG	BLOCKING	FOS	FACE OF STUD	OD	OUTSIDE DIAMETER	STRUC	STRUCTURAL
BM	BEAM	FRP	FIBERGLASS REINFORCED POLYESTER	OFF	OFFICE	SUSP	SUSPENDED
BN	BOUNDARY NAILING	FT	FEET, FOOT	OH	OPPOSITE HAND	SCW	SOLID CORE WOOD DOOR
BOT	BOTTOM	FTG	FOOTING	OHV	OVERHEAD	T	TREAD
BR	BRIDGE	FURR	FURRING	OHWS	OVERHEAD WOOD SCREW	T&G	TONGUE & GROOVE
BTWN	BETWEEN	FWY	FREEWAY	OPNG	OPENING	TB	TOLL BOOTH
BUR	BUILT-UP-ROOFING	GA	GAUGE	OPP	OPPOSITE	TEL	TELEPHONE
CJ	CONTROL JOINT	GAL	GALLON	OPT	OPTION, OPTIONAL	TEMP	TEMPORARY
CL	CHAIN LINK	GALV	GALVANIZED	P	PITCH	TER	TERRAZZO
CAB	CABINET	GB	GRAB BAR	PB	PITCH BASE	THK	THICK
CCR	CALIFORNIA CODE OF REGULATIONS	GL	GALVANIZED IRON GLASS	PC	POST CAP	THLD	THRESHOLD
CB	CATCH BASIN	GLM	GLUE LAMINATED MEMBER	PCD	PORTLAND CEMENT CONCRETE	TJ	TOOLED JOINT
CEM	CEMENT	GLZ	GLAZING	POT	PATH OF TRAVEL	TKBD	TACKBOARD
CER	CERAMIC	GR	GRADE	PT	POINT	TN	TOE NAIL
CIP	CAST IN PLACE	GSM	GALVANIZED SHEET METAL	PRTN	PARTITION	TOC	TOP OF CURB OR CONCRETE
CKBD	CHALKBOARD	GYBD	GYP BOARD	PR	PAIR	TOS	TOP OF PAVEMENT
CLG	CEILING	GYP SHTG	GYP SHEATHING	PMF	PRESSED METAL FRAME	TOT	TOP OF SLOPE
CMU	CONCRETE MASONRY UNIT	HB	HOSE BIBB	PLWD	PLYWOOD	TOW	TOTAL
CLO	CLOSET	HC	HOLLOW CORE	PLAS	PLASTER	TS	TOP OF WALL
CLR	CLEAR	HD	HEAD, HOLD DOWN	PLAM	PLASTIC LAMINATE	TSCD	TUBULAR STEEL
COL	COLUMN	HDR	HEADER	PL	PLATE	TTD	TOILET SEAT COVER DISPENSER
CPTD	COMBINATION PAPER TOWEL DISPENSER & RECEPTACLE	HDWD	HARDWOOD	PH	PHILLIPS HEAD	TYP	TOILET TISSUE DISPENSER TYPICAL
CONC	CONCRETE	HWDR	HARDWARE	POT	PATH OF TRAVEL	UNF	UNFINISHED
CONN	CONNECTION	HEX	HEXAGONAL	PSD	POWDER SOAP DISPENSER	UON	UNLESS OTHERWISE NOTED
CONST	CONSTRUCTION	HF	HEMLOCK-FIR	PVC	POLYVINYL CHLORIDE	UR	URINAL
CONT	CONTINUOUS	HG	HALF GLASS	PWB	PREFABRICATED WOOD I BEAM	VAR	VARIABLE
CORR	CORRIDOR	HGR	HANGER	PREFAB	PREFABRICATED	VCT	VINYL COMPOSITION TILE
CPT	CARPET	HM	HOLLOW METAL	QT	QUARRY TILE	VERT	VERTICAL
CT	CERAMIC TILE	HORIZ	HORIZONTAL	(R)	RELOCATED	VEST	VESTIBULE
CTR	CENTER	HP	HIGH POINT	R	RADIUS, RISER	VR	VENT RISER
CTSK	COUNTERSUNK	HR	HOUR	R/W	RIGHT OF WAY	VTR	VENT THROUGH ROOF
CY	CUBIC YARD	HSB	HIGH STRENGTH BOLT	RD	ROOF DRAIN	V.B.	VENETIAN BLIND
DA	DESIGNATED ACCESSIBILITY	HT	HEIGHT	RDWD	REDWOOD	W	WEST
DBL	DOUBLE	HVAC	HEATING, VENTILATING, AIR CONDITIONING	REF	REFERENCE	W/	WITH
DEPT	DEPARTMENT	HWY	HIGHWAY	REFG	REFRIGERATOR	W/O	WITHOUT
DET	DETAIL	HL	COMBINATION LIGHT & HEAT UNIT	REINF	REINFORCED (ING)	WB	WATER BOTTLE
DF	DOUGLAS FIR	ID	INSIDE DIAMETER	REQ	REQUIRED	WC	WATER CLOSET
DIA	DIAMETER	IN	INCH	RFG	ROUGHSAWN	WD	WOOD
DIM	DIMENSION	INT	INTERIOR	RH	ROUND HEAD	WDW	WINDOW
DN	DOWN	JAN	JANITOR	RHWS	ROUND HEAD WOOD SCREW	WH	WATER HEATER
DP	DEEP	JB	JUNCTION BOX	RJ	ROOF JOIST	WP	WORKING POINT
DR	DOOR	JH	JOIST HANGER	RM	ROOM	WR	WATER RESISTANT
DS	DOWNSPOUT	JST	JOIST	RO	ROUGH OPENING	WSC	WAINSCOT
DI	DRAINAGE INLET	JT	JOINT	RSWN	RESAWN	WT	WEIGHT
DWG	DRAWING	KIT	KITCHEN	RTE	ROUTE	WTPR	WATERPROOFING
DWR	DRAWER	LAB	LABORATORY	RWL	RAINWATER LEADER	WWF	WELDED WIRE FABRIC
(E)	EXISTING	LAV	LAVATORY			WW	WINDOW WALL
E	EAST	LBF	POUND FORCE POUNDS			YD	YARD
EA	EACH	LBS	POUNDS				
EHD	ELECTRIC HAND DRYER	LF	LINEAR FEET				
EIFS	EXTERIOR INSULATION FINISHING SYSTEM	LKR	LOCKER				
EJ	EXPANSION JOINT	LPG	LIQUIFIED PETROLEUM GAS				
EL	ELEVATION (HEIGHT)	LS	LAG SCREW				
ELECT	ELECTRICAL						
ELEV	ELEVATION (VIEW)						
ELVR	ELEVATOR						
EMER	EMERGENCY						
ENCL	ENCLOSURE						

# SYMBOLS

	EARTH
	AC PAVING
	PARTITION
	CONCRETE
	CONCRETE MASONRY UNITS
	STEEL
	SAND/MORTAR/PLASTER
	BATT INSULATION
	RIGID INSULATION
	EXPANSION JOINT FILLER
	PLYWOOD
	GYP BOARD
	CONTINUOUS WOOD FRAMING
	WOOD BLOCKING
	FINISH WOOD
	ROOM DESIGNATION
	DOOR DESIGNATION
	WINDOW DESIGNATION
	LOUVER DESIGNATION
	WORKING POINT
	ELEVATION IDENTIFICATION SHEET NUMBER
	SECTION LETTER SHEET NUMBER
	DETAIL NUMBER SHEET NUMBER
	DETAIL NUMBER
	SAME SHEET
	GRID LINE (LETTER IN ONE DIRECTION, NUMBERS IN OTHER DIRECTION)

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		22	102

*Lani Rhoades* 08/29/08  
 LICENSED ARCHITECT DATE

11-17-08  
 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.

<b>ACCESSIBILITY DESIGN APPROVAL STAMP</b> DOT / DES / OTA <b>09-310601</b> DISTRICT - EA Reviewed by: <i>Ya Wang</i> Date: 08/26/08	<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: <i>Pam Emick</i> PAM EMICK Approval date: 11/12/08
---	--

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		23	102

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

PROJECT NAME <b>SHOP 29 FACILITY REMODEL</b>		DATE 8/29/08
PROJECT ADDRESS 11 JAY STREET, BISHOP CA		
PRINCIPAL DESIGNER-ENVELOPE Lani Rhoades	TELEPHONE 916-227-9640	Building Permit #  Checked by/Date Enforcement Agency Use
DOCUMENTATION AUTHOR Solomon Wong	TELEPHONE 916-227-8330	

GENERAL INFORMATION		
DATE OF PLANS	BUILDING CONDITIONED FLOOR AREA	CLIMATE ZONE
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 checked="" type="checkbox"/> ALTERATION <input type="checkbox"/> UNCONDITIONED (File affidavit)		
METHOD OF ENVELOPE COMPLIANCE <input checked="" type="checkbox"/> COMPONENT <input type="checkbox"/> OVERALL ENVELOPE <input type="checkbox"/> PERFORMANCE		
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)		
STATEMENT OF COMPLIANCE		

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

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

DOCUMENTATION AUTHOR Solomon Wong	SIGNATURE <i>Solomon C. Wong</i>	DATE 8/29/08
--------------------------------------	-------------------------------------	-----------------

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.

(This section of the Business and Professions Code is 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.

PRINCIPAL ENVELOPE DESIGNER-NAME Lani Rhoades	SIGNATURE <i>Lani Rhoades</i>	DATE 8/29/08	LIC.# C26695
--	----------------------------------	-----------------	-----------------

ENVELOPE MANDATORY MEASURES
<input type="checkbox"/> 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 April 2005

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

PROJECT NAME <b>SHOP 29 FACILITY REMODEL</b>		DATE 8/29/08
PROJECT ADDRESS 11 JAY STREET, BISHOP CA		
PRINCIPAL DESIGNER-MECHANICAL Lani Rhoades	TELEPHONE 916-227-9640	Building Permit #  Checked by/Date Enforcement Agency Use
DOCUMENTATION AUTHOR Solomon Wong	TELEPHONE 916-227-8330	

GENERAL INFORMATION		
DATE OF PLANS 8/29/08	BUILDING CONDITIONED FLOOR AREA 2092 SQ FT	CLIMATE ZONE 14
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 checked="" type="checkbox"/> ALTERATION <input type="checkbox"/> UNCONDITIONED (File affidavit)		
PROOF OF ENVELOPE COMPLIANCE <input type="checkbox"/> PREVIOUS ENVELOPE PERMIT <input checked="" type="checkbox"/> ENVELOPE COMPLIANCE ATTACHED		
STATEMENT OF COMPLIANCE		

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

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

DOCUMENTATION AUTHOR Solomon Wong	SIGNATURE <i>Solomon C. Wong</i>	DATE 8/29/08
--------------------------------------	-------------------------------------	-----------------

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).

(This section of the Business and Professions Code is 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 exemption to 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 the exemption to Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described pursuant to Business and Professions Code sections 5537, 5538, and 6737.1.

PRINCIPAL MECHANICAL DESIGNER-NAME Solomon Wong	DATE 8/29/08	LIC.# M277626
--	-----------------	------------------

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 checked="" 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 checked="" 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 December 2005

*Lani Rhoades* 08/29/08  
 LICENSED ARCHITECT DATE

11-17-08  
 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 DESIGN APPROVAL STAMP DOT / DES / OTA	CALIFORNIA STATE FIRE MARSHAL APPROVED
09-310601 DISTRICT - EA	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>Ya Wang</i> Date: 08/26/08	Reviewed by: <i>Pam Emick</i> PAM EMTCK Approval date: 11/12/08



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

PROJECT NAME <b>SHOP 29 FACILITY REMODEL</b>	DATE 08/29/2008
PROJECT ADDRESS 11 JAY STREET, BISHOP CA	Building Permit #  Checked by/Date Enforcement Agency Use
PRINCIPAL DESIGNER-LIGHTING CHI WU TELEPHONE 916-227-8345	
DOCUMENTATION AUTHOR CHI WU TELEPHONE 916-227-8345	

**GENERAL INFORMATION**

DATE OF PLANS \_\_\_\_\_ OUTDOOR LIGHTING ZONE (✓ One)  LZ1  LZ2  LZ3  LZ4

FUNCTION TYPE  OUTDOOR LIGHTING  OUTDOOR SIGNS  INDOOR SIGNS

PHASE OF CONSTRUCTION  NEW CONSTRUCTION  ADDITION  ALTERATION

**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 CHI WU	SIGNATURE <i>Chi Wu</i>	DATE 8/29/08
--------------------------------	----------------------------	-----------------

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, & 149 of Title 24, Part 6.

(This section of the Business and Professions Code is 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.

PRINCIPAL LIGHTING DESIGNER-NAME CHI WU	SIGNATURE <i>Chi Wu</i>	DATE 8/29/08	LIC.# 10773
--	----------------------------	-----------------	----------------

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

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

<input checked="" type="checkbox"/> OLTG-1-C	Certificate of Compliance. Required on plans for all submittals for outdoor lighting. Part 2 of 2 may be incorporated in schedules on the plans.
<input type="checkbox"/> OLTG-2-C	Lighting Compliance Summary. Applicable parts required for ALL outdoor lighting allowances (Except for signs)
<input checked="" 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

April 2005

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

PROJECT NAME **SHOP 29 FACILITY REMODEL**

**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 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 Lighting 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 S 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 scales areas meet the Cutoof Requirements of S 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 S 132(e)2  
 Not applicable

**MANDATORY AUTOMATIC CONTROLS**

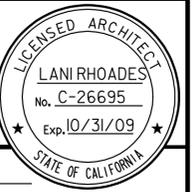
CONTROL LOCATION	CONTROL IDENTIFICATION	CONTROL TYPE (Auto Time Switch, Dimming, Photosensor, etc.)	AREA CONTROLLED	NOTE TO FIELD
LCP SERVICE BAY	PEC	PHOTO SENSOR	WALKWAY CANOPY	

2005 Nonresidential Compliance Forms

September 2005

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		25	102

*Lani Rhoades* 08/29/08  
 LICENSED ARCHITECT DATE  
 11-17-08  
 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.

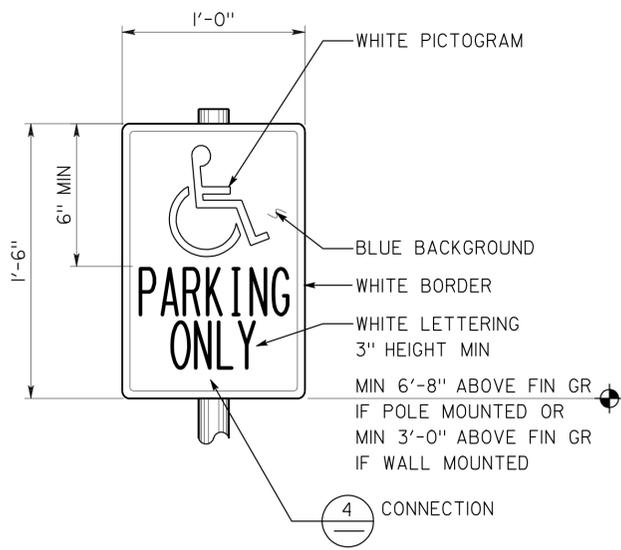
<p><b>ACCESSIBILITY DESIGN APPROVAL STAMP</b>                  DOT / DES / OTA  <b>09-310601</b>                  DISTRICT - EA</p> <p>Reviewed by: <i>Ya Wang</i>                  Date: 08/26/08</p>	<p><b>CALIFORNIA STATE FIRE MARSHAL APPROVED</b></p> <p>Approval of this plan does not authorize or approve 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.</p> <p>Reviewed by: <i>Pam Emick</i>                  PAM EMICK                  Approval date: 11/12/08</p>
--	---

DESIGN BY LANI RHOADES CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 5505	SHOP 29 FACILITY REMODEL ENERGY COMPLIANCE FORMS	SHEET OF
DETAILS BY LANI RHOADES CHECKED					A0-2.3
QUANTITIES BY CHECKED					
a0-2_3.dgn	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	CU 09 I23 EA 310601	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF X X
DS OSD Imperial Rev. 11/98 04-JAN-2010 07:33					a0-2_3.dgn

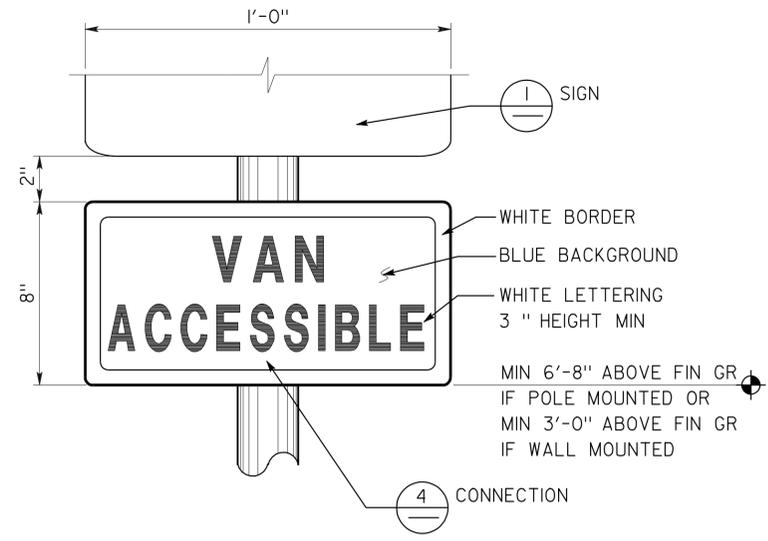
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		26	102

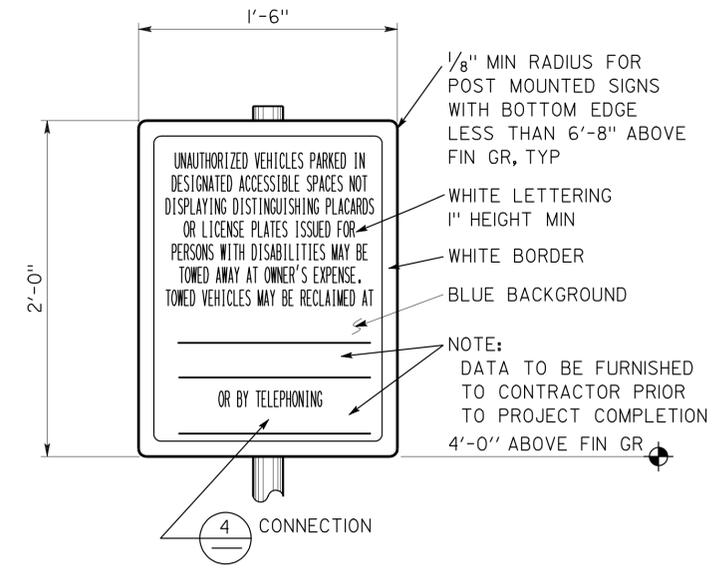
<i>Y.A. Wang</i>	08-29-08	
LICENSED ARCHITECT	DATE	
11-17-08	PLANS APPROVAL DATE	
<i>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</i>		



**1 ACCESSIBLE PARKING SIGN**  
REFER TO SITE PLAN FOR LOCATIONS



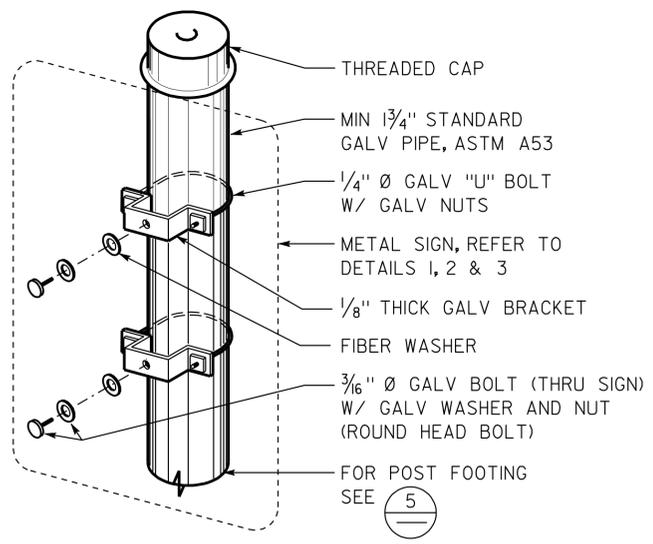
**2 ACCESSIBLE VAN PARKING SIGN**  
REFER TO SITE PLAN FOR LOCATIONS



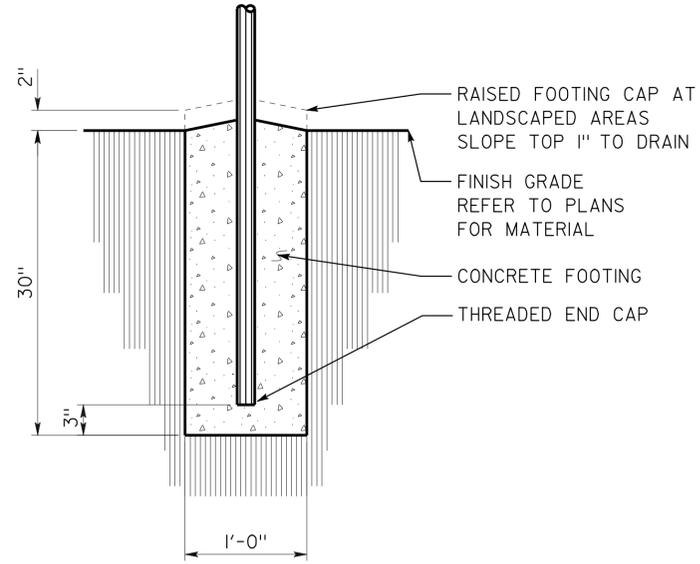
**3 PARKING AREA ENTRANCE SIGN**  
REFER TO SITE PLAN FOR LOCATIONS



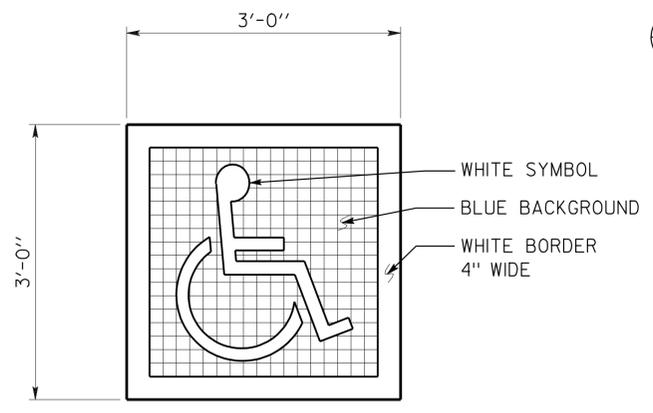
**7 ACCESS AISLE PAVEMENT MARKING**



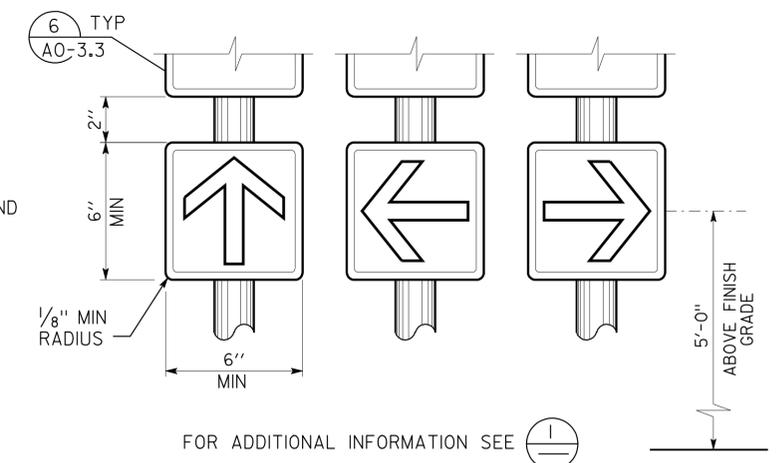
**4 SIGN CONNECTION**



**5 SIGN POST FOOTING**



**6 ACCESSIBLE PARKING SURFACE IDENTIFICATION**  
REFER TO DETAILS 1 AND 2 ON SHEET A0-1 FOR PLACEMENT



**8 DIRECTIONAL SIGNS**  
REFER TO SITE PLAN FOR LOCATIONS

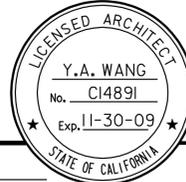
**DETAILS**  
NO SCALE UNLESS OTHERWISE NOTED

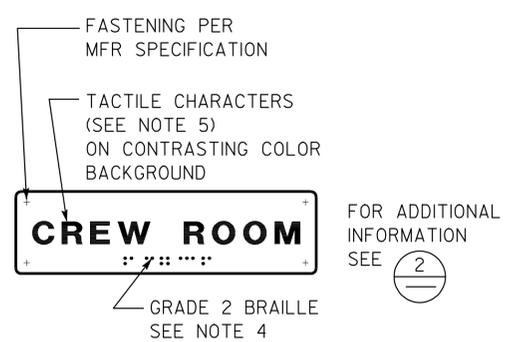
NOTE: SPECIFIC DETAILS OR NOTES ON OTHER SHEETS SHALL PREVAIL OVER STANDARD DETAILS AND NOTES ON THIS SHEET

STANDARD DRAWING				STATE OF CALIFORNIA		DIVISION OF ENGINEERING SERVICES		BRIDGE NO.		SHOP 29 FACILITY REMODEL		SHEET	
FILE NO. _____	DESIGN BY D. ALSEY	CHECKED Y.A. WANG	APPROVED <i>R.E. Travin</i>	CALIFORNIA		ARCHITECTURAL AND STRUCTURAL DESIGN		5505 POST MILE		ACCESSIBILITY		A0-3.2	
DRAWING DATE 10-07	DETAILS BY D. GOOD	CHECKED Y.A. WANG	DESIGN SUPERVISOR	DEPARTMENT OF TRANSPORTATION		STRUCTURAL DESIGN		ACCESSIBILITY		ACCESSIBILITY STANDARD DETAILS		OF	
SUBMITTED BY Y.A. WANG				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		CU EA 310601		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF	
a0_03_2.dgn DS OSD Imperial Rev. 11/98 04-JAN-2010 07:12				0 1 2 3				- 01				a0_03_2.dgn	

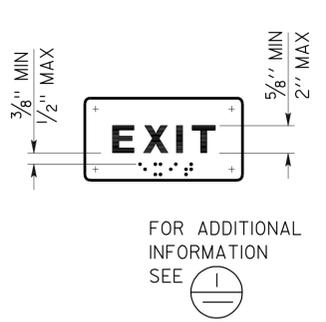
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		27	102

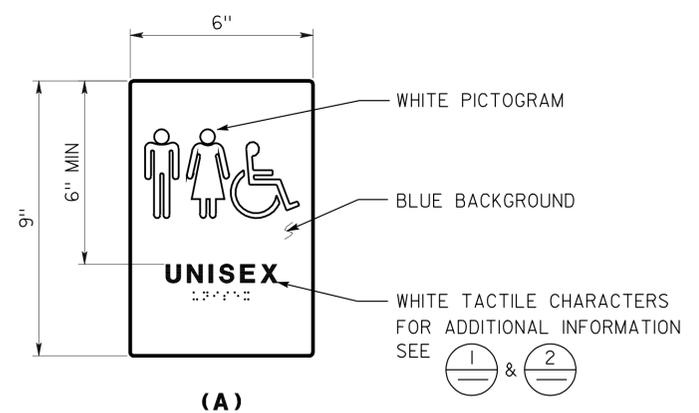
 LICENSED ARCHITECT		08-29-08 DATE	
11-17-08 PLANS APPROVAL DATE		The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.	



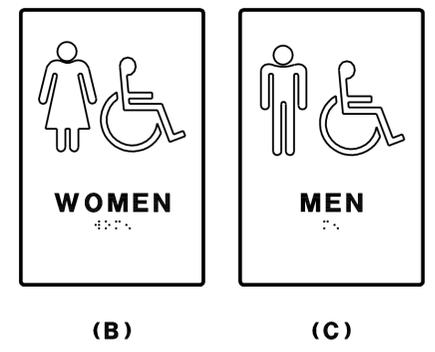
**1 ROOM IDENTIFICATION SIGN**  
INSTALL PER DETAIL 5



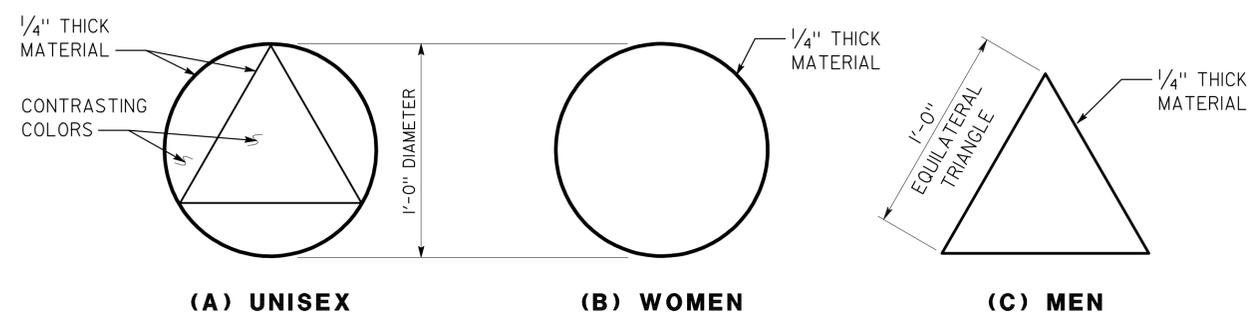
**2 EXIT SIGN**  
INSTALL PER DETAIL 5  
TEXT MAY VARY, SEE PLANS



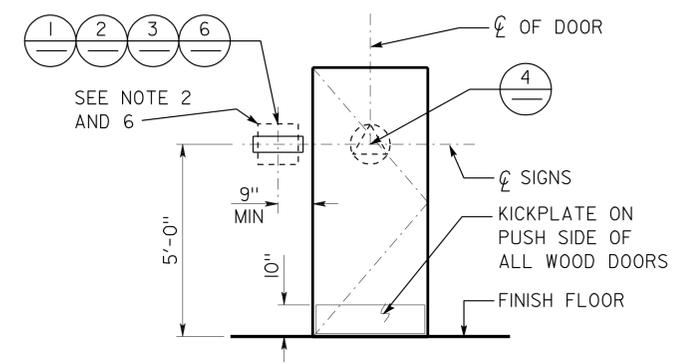
**3 RESTROOM SIGNS**  
INSTALL PER DETAIL 5



<b>ACCESSIBILITY DESIGN APPROVAL STAMP</b> DOT / DES / OTA <b>09-310601</b> DISTRICT - EA Reviewed by:  Y.A. WANG Date: 08/26/08	<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:  PAM EMICK Approval date: 11/12/08
---	---

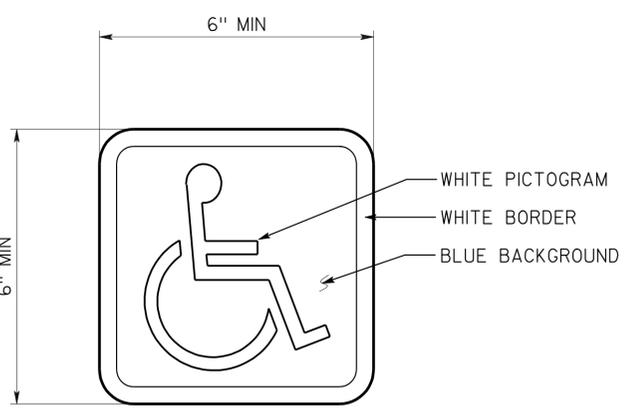


**4 RESTROOM IDENTIFICATION SYMBOLS**  
INSTALL PER DETAIL 5  
ANY PICTOGRAM AND TEXT ARE NOT REQUIRED

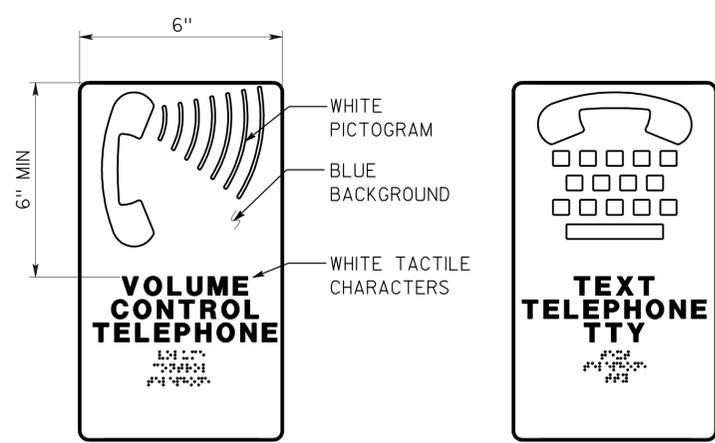


**5 SIGN LOCATIONS**  
REFER TO SIGNAGE NOTES FOR ADDITIONAL INFORMATION

- SIGNAGE NOTES:**
- LOCATE ROOM IDENTIFICATION 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.
  - 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.



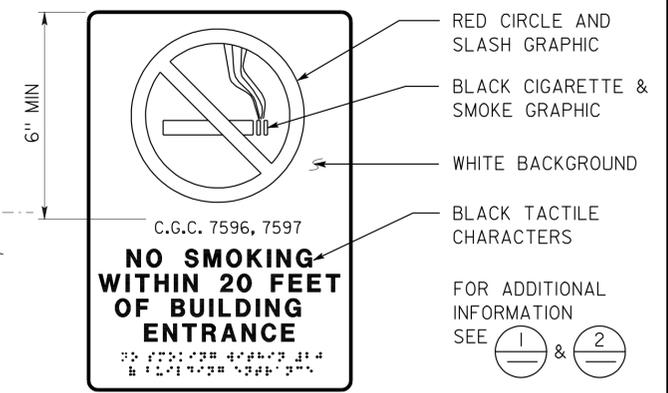
**6 ACCESSIBLE BUILDING ENTRANCE SIGN**  
INSTALL PER DETAIL 5  
SEE DOOR SCHEDULE OR EXTERIOR ELEVATIONS FOR SIGN LOCATIONS



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



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

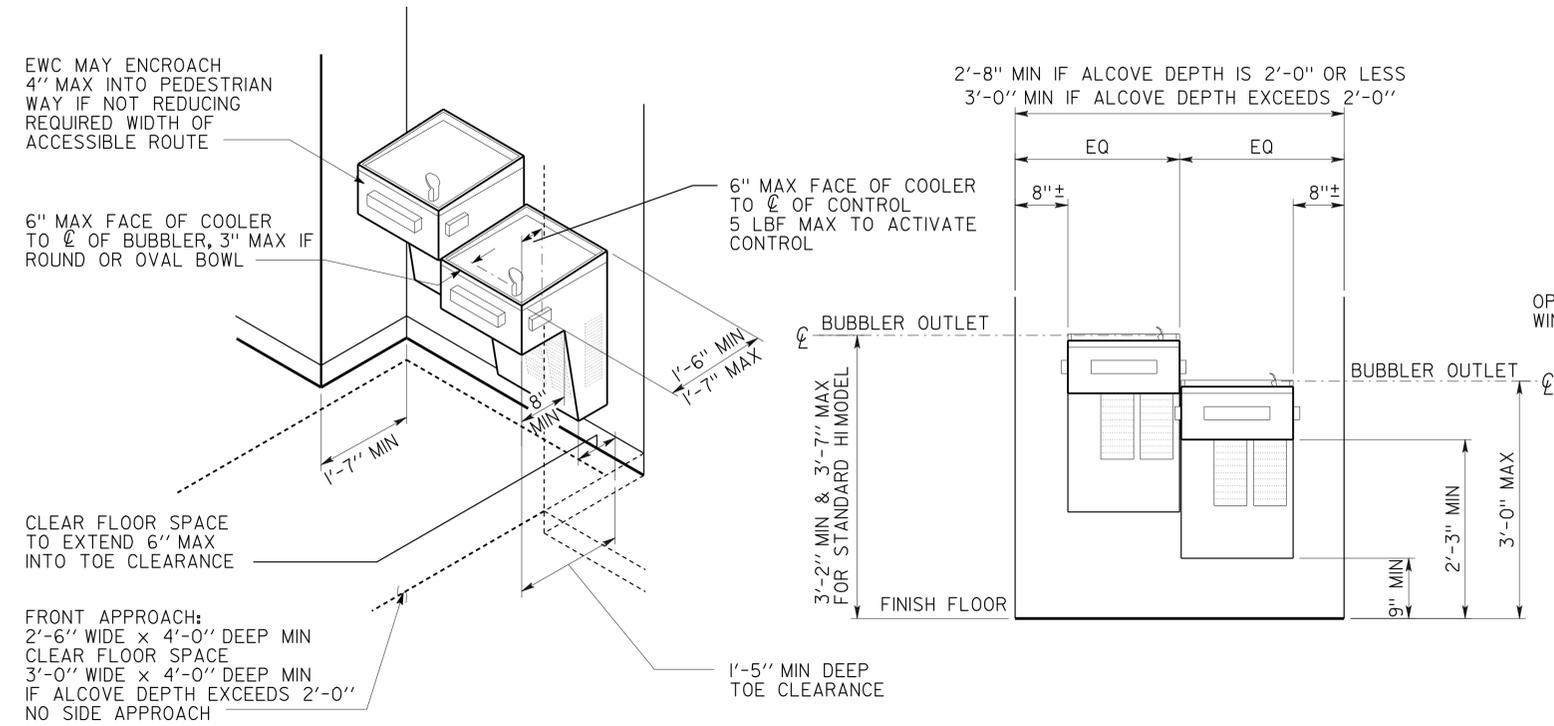


**9 NO SMOKING SIGN**  
SEE PLANS OR EXTERIOR ELEVATIONS FOR SIGN LOCATIONS

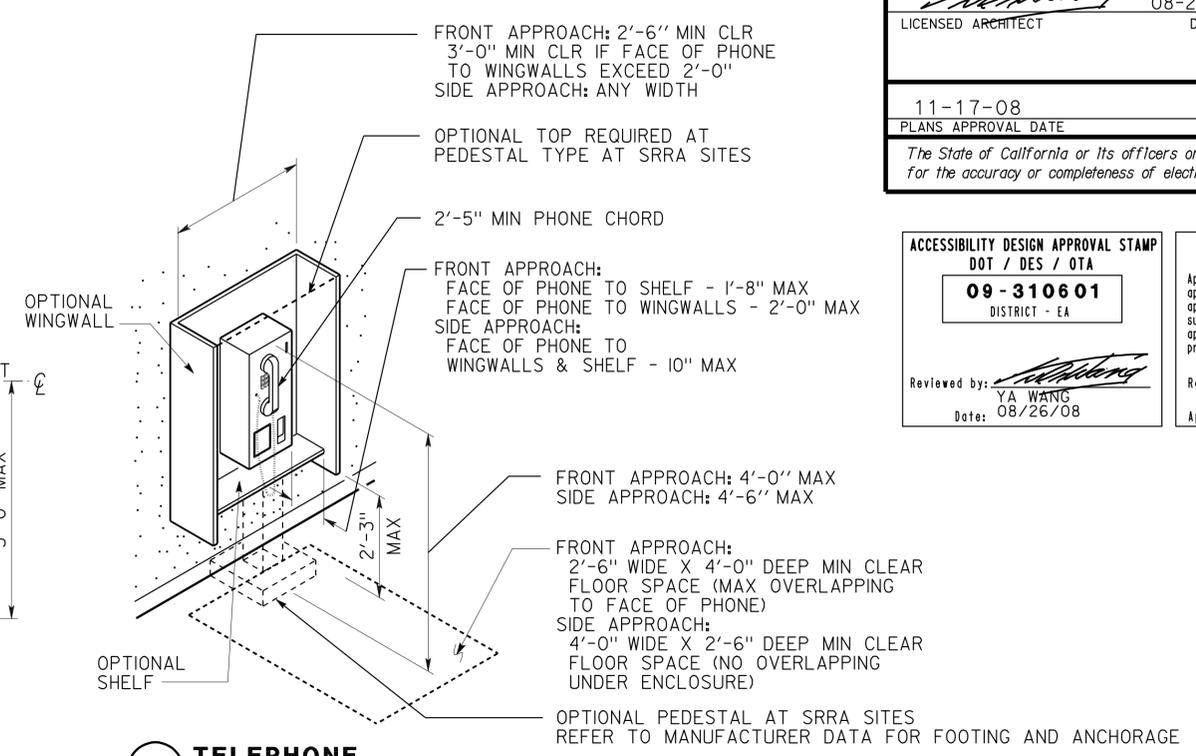
**DETAILS**  
NO SCALE UNLESS OTHERWISE NOTED

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. 5505 POST MILE		SHOP 29 FACILITY REMODEL		SHEET A0-3.3	
FILE NO. 01-08	DESIGN BY D. ALSEY	CHECKED Y.A. WANG	APPROVED R.E. Travis DESIGN SUPERVISOR	DEPARTMENT OF TRANSPORTATION		ACCESSIBILITY		ACCESSIBILITY STANDARD DETAILS		REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF	
SUBMITTED BY Y.A. WANG				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		CU EA 310601		DISREGARD PRINTS BEARING EARLIER REVISION DATES		- 01		07:12	

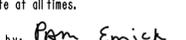


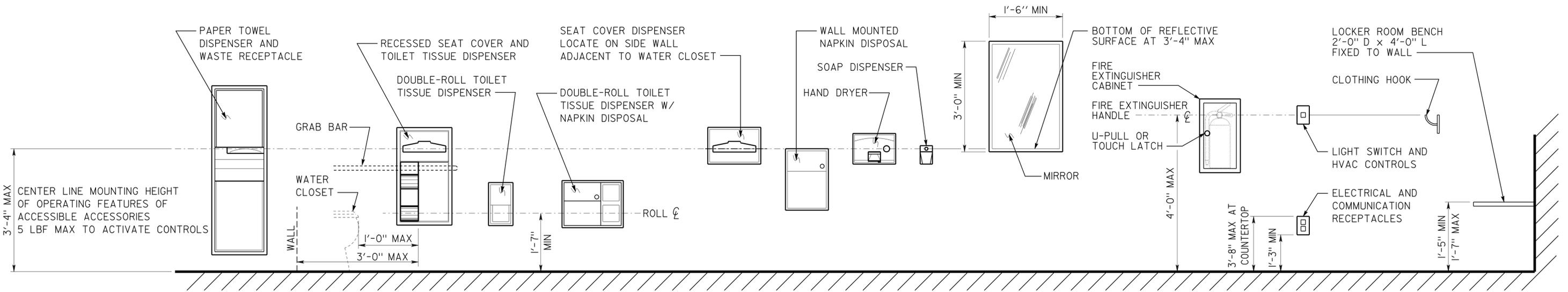
**1 ALCOVE ELECTRIC WATER COOLER**  
FIXTURE TYPE MAY VARY



**2 TELEPHONE**

**ACCESSIBILITY DESIGN APPROVAL STAMP**  
 DOT / DES / OTA  
**09-310601**  
 DISTRICT - EA  
 Reviewed by:   
 YA WANG  
 Date: 08/26/08

**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  
 Approval date: 11/12/08



**3 MOUNTING HEIGHTS OF 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. 5505 POST MILE		SHOP 29 FACILITY REMODEL		SHEET A0-3.5	
FILE NO. 01-08	DESIGN BY D. ALSEY	CHECKED Y.A. WANG	APPROVED 	DEPARTMENT OF TRANSPORTATION		ACCESSIBILITY		ACCESSIBILITY STANDARD DETAILS		REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF	
DATE 01-08	DETAILS BY D. GOOD	CHECKED Y.A. WANG	DESIGN SUPERVISOR	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		CU EA 310601		DISREGARD PRINTS BEARING EARLIER REVISION DATES		- 01		04-JAN-2010 07:12	
SUBMITTED BY Y.A. WANG				04-JAN-2010 07:12									



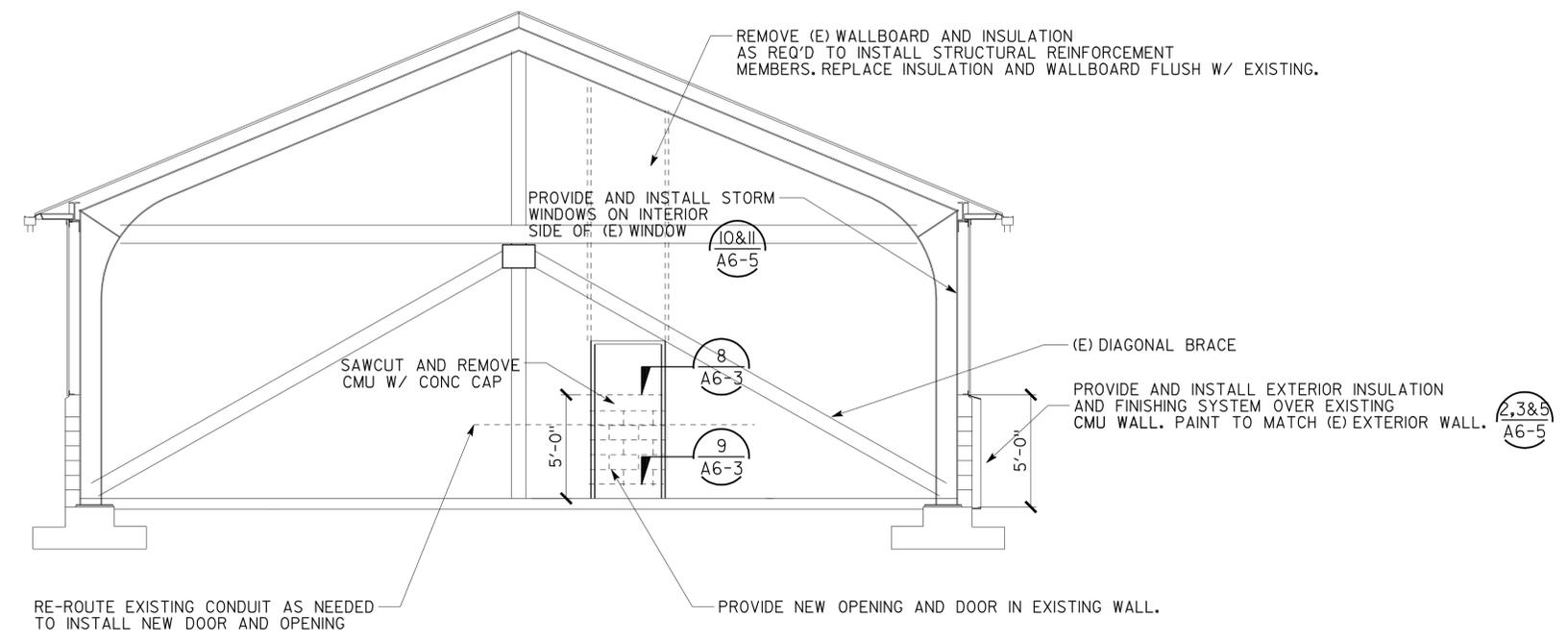
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		30	102

*Lani Rhoades* 08/29/08  
 LICENSED ARCHITECT DATE

LICENSED ARCHITECT  
 LANI RHOADES  
 No. C-26695  
 Exp. 10/31/09  
 STATE OF CALIFORNIA

11-17-08  
 PLANS APPROVAL DATE

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



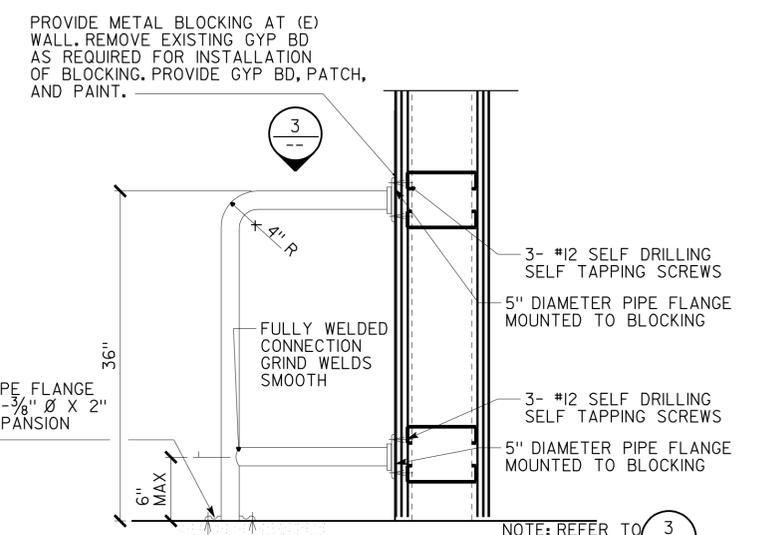
**1 BUILDING SECTION**  
SCALE 1/4" = 1'-0"

ACCESSIBILITY DESIGN APPROVAL STAMP  
 DOT / DES / OTA  
**09-310601**  
 DISTRICT - EA

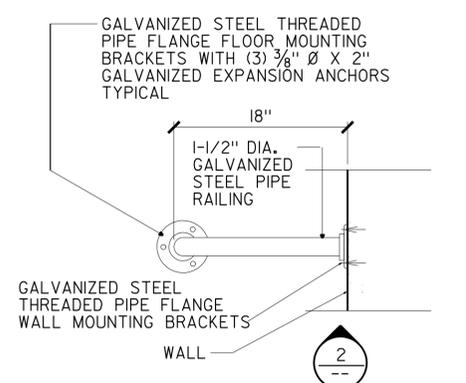
CALIFORNIA STATE FIRE MARSHAL APPROVED  
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

Reviewed by: *YA WANG*  
 Date: 08/26/08

Reviewed by: *Pam Emick*  
 PAM EMICK  
 Approval date: 11/12/08



**2 PIPE WINGWALL ELEVATION**  
NOT TO SCALE



**3 PIPE WINGWALL**  
NOT TO SCALE

DOOR SCHEDULE															
NUMBER	DOOR						FRAME		HARDWARE GROUP	LABEL	LOUVER	DETAILS			REMARKS
	TYPE	WIDTH	HEIGHT	THICK.	MATERIAL	GLASS	MATERIAL	WIDTH				HEAD	JAMB	THRESH	
100	(E)	3'-0"	6'-8"	(E)	(E)	--	(E)	(E)	(E)	--		--	--	PROVIDE SIGNAGE	
101	(E)	12'-0"	12'-0"	(E)	(E)	--	(E)	(E)	(E)	--		--	--	NO WORK REQ'D	
102	(E)	3'-0"	6'-8"	(E)	(E)	--	(E)	(E)	(E)	--		--	--	PROVIDE SIGNAGE	
103	(E)	12'-0"	12'-0"	(E)	(E)	--	(E)	(E)	(E)	--		--	--	NO WORK REQ'D	
104	(E)	2'-9"	6'-8"	(E)	(E)	--	(E)	(E)	(E)	--		--	--	NO WORK REQ'D	
105	(E)	12'-0"	12'-0"	(E)	(E)	--	(E)	(E)	(E)	--		--	--	NO WORK REQ'D	
106	(E)	12'-0"	12'-0"	(E)	(E)	--	(E)	(E)	(E)	--		--	--	NO WORK REQ'D	
107	(E)	12'-0"	12'-0"	(E)	(E)	--	(E)	(E)	(E)	--		--	--	NO WORK REQ'D	
108	A	3'-0"	6'-8"	1-3/4"	MET	NO	PMF	8 1/2"	I	--		7/A6-3	8&9/A6-3	6/A6-3	PROVIDE SIGNAGE
109	(E)	3'-0"	6'-8"	(E)	SC	--	(E)	(E)	(E)	--		--	--	NO WORK REQ'D	

**NOTE AND LEGEND:**

(E) (E) DOOR, DOOR FRAME & HARDWARE TO REMAIN  
 (E) DOOR HARDWARE TO BE REPLACED WITH NEW OR NEW ADDED DOOR. PAINT DOOR AND FRAME TO MATCH EXISTING.

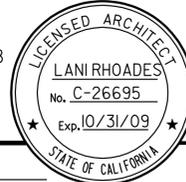
**DOOR TYPES**

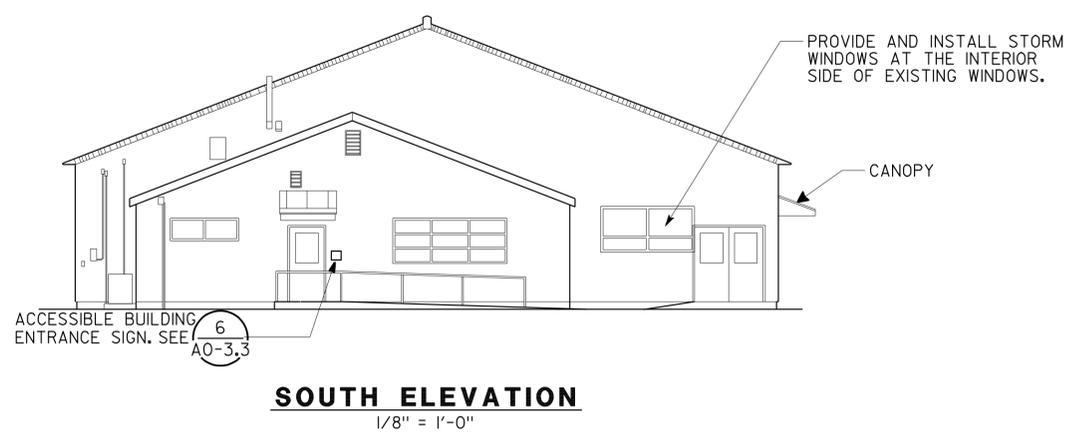
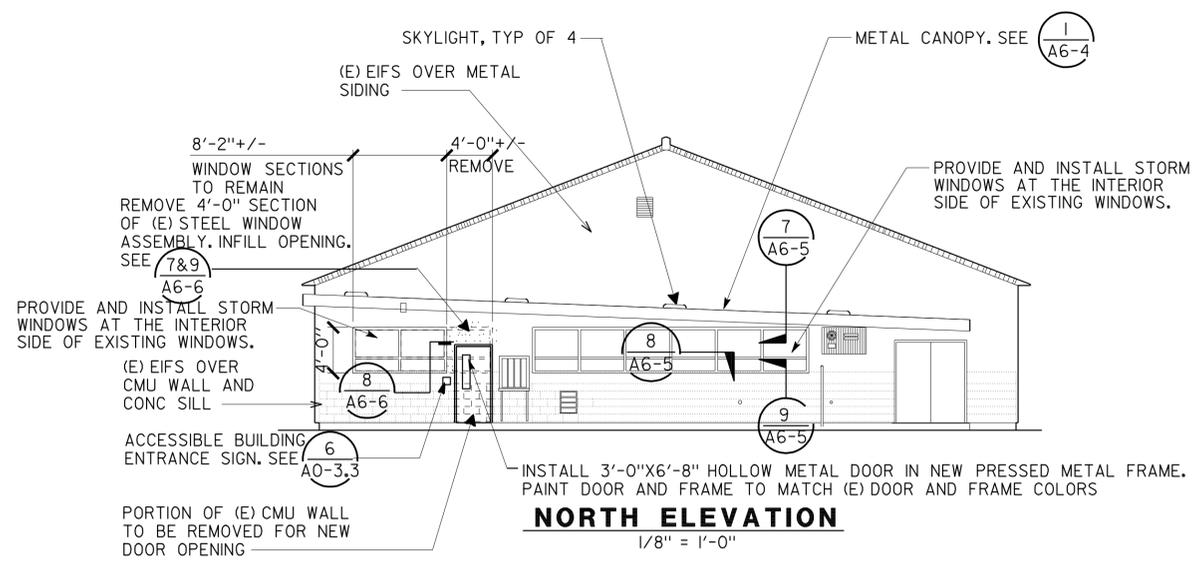
A METAL DOOR



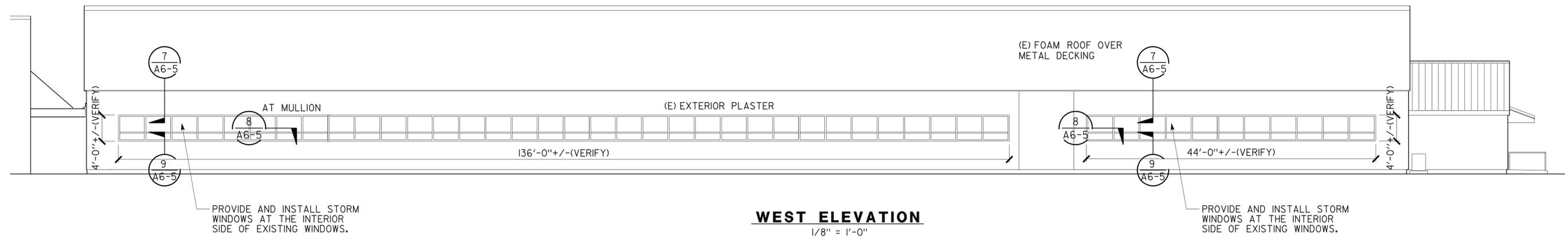
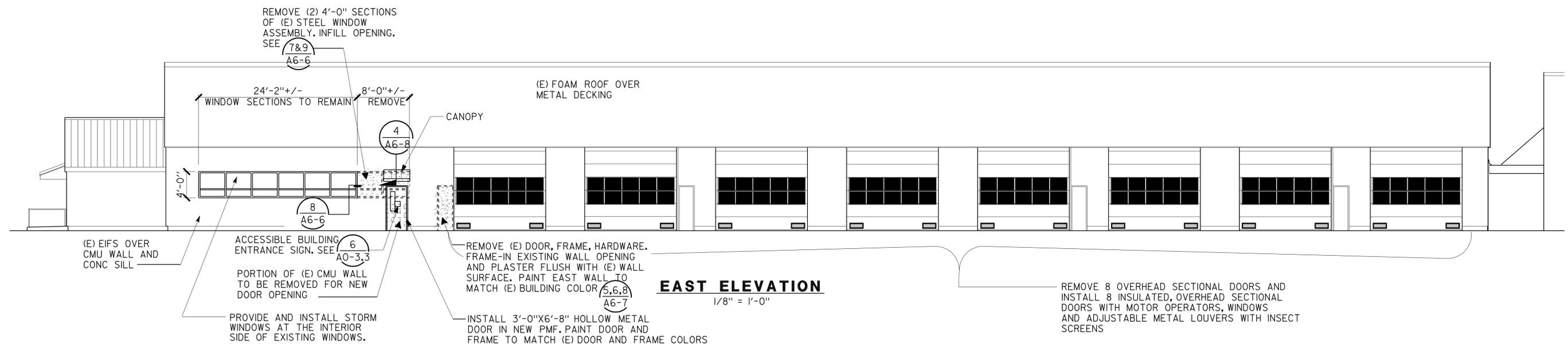
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		32	102

<i>Lani Rhoades</i>	08/29/08
LICENSSED ARCHITECT	DATE
	
11-17-08	
PLANS APPROVAL DATE	
<i>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.</i>	



<b>ACCESSIBILITY DESIGN APPROVAL STAMP</b> DOT / DES / OTA <b>09-310601</b> DISTRICT - EA	<b>CALIFORNIA STATE FIRE MARSHAL APPROVED</b> Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
Reviewed by: <i>YA WANG</i> Date: 08/26/08	Reviewed by: <i>Pam Emick</i> PAM EMTCK Approval date: 11/12/08



a2_2.dgn DS OSD Imperial Rev. 11/98 04-JAN-2010 07:13	DESIGN BY LANI RHOADES CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 5505	<b>SHOP 29 FACILITY REMODEL</b>		SHEET
	DETAILS BY LANI RHOADES CHECKED		POST MILE	MOTOR REPAIR SHOP	<b>EXTERIOR ELEVATIONS</b>		<b>A2-2</b>
QUANTITIES BY CHECKED	CU 09 I23 EA 310601		DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF	X X
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3							

04-JAN-2010 07:13

# DOOR SCHEDULE

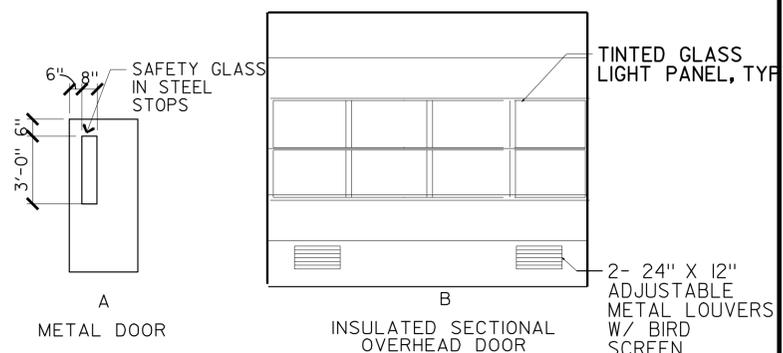
NUMBER	DOOR						FRAME		HARDWARE GROUP	LABEL	LOUVER	DETAILS			REMARKS
	TYPE	WIDTH	HEIGHT	THICK.	MATERIAL	GLASS	MATERIAL	WIDTH				HEAD	JAMB	THRESH	
200	A	3'-0"	6'-8"	1-3/4"	MET	YES	MET	10-1/2"	I	-		1 A6-7	2&3 A6-7	6SIM A6-3	PROVIDE DOOR SIGNAGE
201	(E)	5'-4"	6'-8"	(E)	MET	(E)	PMF	--	--	-					REMOVE DOUBLE DOOR. DOOR FRAME TO REMAIN PROVIDE SIGNAGE.
202	(E)	2'-9"	6'-8"	(E)	MET	(E)	(E)	--	--	-		4 A6-7	5 A6-7	6 A6-7	REMOVE DOOR, FRAME, THRESHOLD, AND ALL ASSOCIATED HARDWARE.
203	B	14'-0"	12'-0"	2"	MET	YES	MET	--	--	-		10 A6-3	11 A6-3	3SIM A6-3	REMOVE (E) OVERHEAD DOOR AND TRACK. PROVIDE AND INSTALL INSULATED OVERHEAD DOOR AND TRACK IN EXISTING OPENING.
204	B	14'-0"	12'-0"	2"	MET	YES	MET	--	--	-		10 A6-3	11 A6-3	3SIM A6-3	REMOVE (E) OVERHEAD DOOR AND TRACK. PROVIDE AND INSTALL INSULATED OVERHEAD DOOR AND TRACK IN EXISTING OPENING.
205	(E)	2'-9"	6'-8"	(E)	(E)	(E)	(E)	(E)	(E)	-					NO WORK REQUIRED
206	B	14'-0"	12'-0"	2"	MET	YES	MET	--	--	-		10 A6-3	11 A6-3	3SIM A6-3	REMOVE (E) OVERHEAD DOOR AND TRACK. PROVIDE AND INSTALL INSULATED OVERHEAD DOOR AND TRACK IN EXISTING OPENING.
207	B	14'-0"	12'-0"	2"	MET	YES	MET	--	--	-		10 A6-3	11 A6-3	3SIM A6-3	REMOVE (E) OVERHEAD DOOR AND TRACK. PROVIDE AND INSTALL INSULATED OVERHEAD DOOR AND TRACK IN EXISTING OPENING.
208	B	14'-0"	12'-0"	2"	MET	YES	MET	--	--	-		10 A6-3	11 A6-3	3SIM A6-3	REMOVE (E) OVERHEAD DOOR AND TRACK. PROVIDE AND INSTALL INSULATED OVERHEAD DOOR AND TRACK IN EXISTING OPENING.
209	(E)	2'-9"	6'-8"	(E)	(E)	(E)	(E)	(E)	(E)	-					NO WORK REQUIRED
210	B	14'-0"	12'-0"	2"	MET	YES	MET	--	--	-		10 A6-3	11 A6-3	3SIM A6-3	REMOVE (E) OVERHEAD DOOR AND TRACK. PROVIDE AND INSTALL INSULATED OVERHEAD DOOR AND TRACK IN EXISTING OPENING.
211	B	14'-0"	12'-0"	2"	MET	YES	MET	--	--	-		10 A6-3	11 A6-3	3SIM A6-3	REMOVE (E) OVERHEAD DOOR AND TRACK. PROVIDE AND INSTALL INSULATED OVERHEAD DOOR AND TRACK IN EXISTING OPENING.
212	(E)	2'-9"	6'-8"	--	(E)	(E)	(E)	--	(E)	-					NO WORK REQUIRED
213	B	14'-0"	12'-0"	2"	MET	YES	MET	--	--	YES		10 A6-3	11 A6-3	3SIM A6-3	REMOVE (E) OVERHEAD DOOR AND TRACK. PROVIDE AND INSTALL INSULATED OVERHEAD DOOR AND TRACK IN EXISTING OPENING.
214	A	3'-0"	6'-8"	1-3/4"	MET	YES	PMF	8 1/2"	I	-		7 A6-3	8&9 A6-3	6SIM A6-3	PROVIDE DOOR SIGNAGE
215	(E)	6'-0"	6'-8"	(E)	(E)	(E)	(E)	(E)	(E)	-					NO WORK REQUIRED
216	(E)	6'-0"	6'-8"	(E)	(E)	(E)	(E)	(E)	(E)	-					NO WORK REQUIRED
217	(E)	3'-0"	6'-8"	(E)	(E)	(E)	--	--	(E)	-					PROVIDE AND INSTALL EXIT SIGNAGE. NO OTHER WORK REQUIRED
218	(E)	3'-0"	6'-8"	(E)	(E)	(E)	--	--	(E)	-					NO WORK REQUIRED
219	(E)	3'-0"	6'-8"	(E)	(E)	(E)	(E)	(E)	(E)	-					NO WORK REQUIRED
220	(E)	3'-0"	6'-8"	(E)	(E)	(E)	(E)	(E)	(E)	-					NO WORK REQUIRED
221	(E)	3'-0"	6'-8"	(E)	(E)	(E)	(E)	(E)	(E)	-					PROVIDE AND INSTALL EXIT SIGNAGE. NO OTHER WORK REQUIRED.
222	(E)	6'-0"	6'-8"	(E)	(E)	(E)	(E)	(E)	(E)	-					NO WORK REQUIRED
223	A	3'-0"	6'-8"	1-3/4"	MET	YES	PMF	5"	2	-		4 A6-6	5 A6-6	6 A6-6	PROVIDE DOOR SIGNAGE
224	(E)	6'-0"	6'-8"	(E)	(E)	(E)	(E)	(E)	(E)	-					NO WORK REQUIRED
225	(E)	6'-0"	6'-8"	(E)	(E)	(E)	(E)	(E)	2	-					REMOVE EXISTING HARDWARE. PROVIDE AND INSTALL LEVER HARDWARE. NO OTHER WORK REQUIRED
226	(E)	6'-0"	6'-8"	(E)	(E)	(E)	(E)	(E)	(E)	-					NO WORK REQUIRED
227	(E)	6'-0"	6'-8"	(E)	(E)	(E)	(E)	(E)	(E)	-					PROVIDE AND INSTALL TACTILE SIGNAGE. NO OTHER WORK REQUIRED.

(E) : EXISTING TO REMAIN

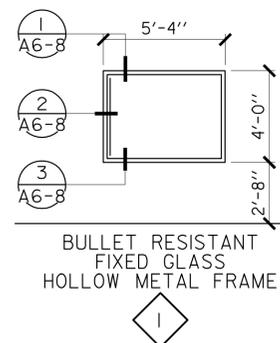
### NOTE AND LEGEND:

- D (E) DOOR, DOOR FRAME & HARDWARE TO REMAIN
- D (E) DOOR HARDWARE TO BE REPLACED WITH NEW. OR NEW ADDED DOOR. PAINT TO DOOR AND FRAME TO MATCH EXISTING.

### DOOR TYPES



### WINDOW TYPES



DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		33	102

*Lani Rhoades* 08/29/08  
 LICENSED ARCHITECT DATE

11-17-08  
 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.

<b>ACCESSIBILITY DESIGN APPROVAL STAMP</b> DOT / DES / OTA <div style="border: 1px solid black; padding: 2px; display: inline-block;"> <b>09-310601</b>          DISTRICT - EA       </div> Reviewed by: <i>YA WANG</i> Date: 08/26/08	<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: <i>Pam Emick</i> PAM EMTICK Approval date: 11/12/08
--	---

04-JAN-2010 07:13

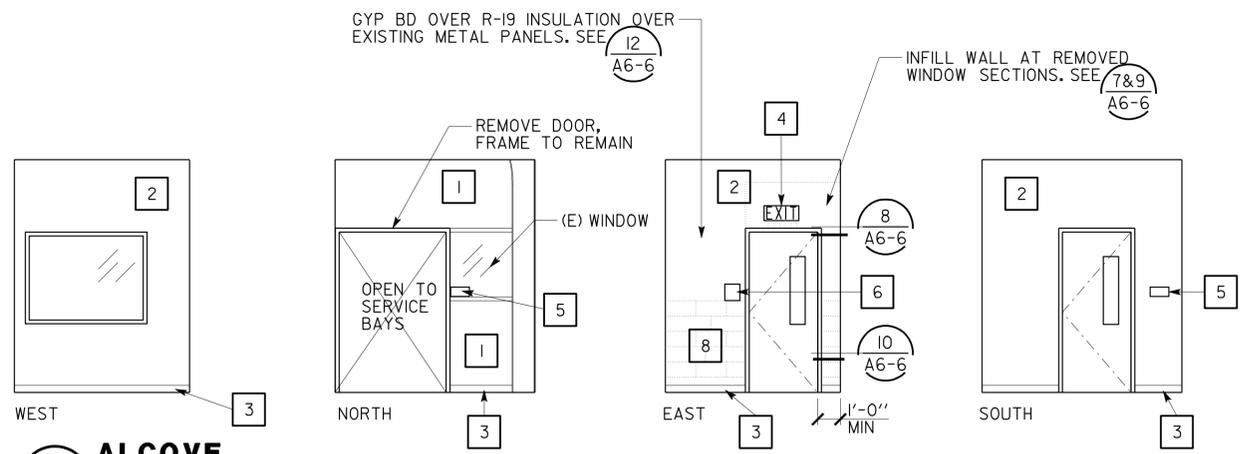
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		34	102

08/29/08  
 LICENSED ARCHITECT DATE  
 11-17-08  
 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.

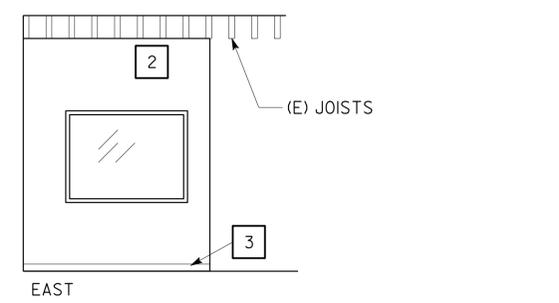
<b>ACCESSIBILITY DESIGN APPROVAL STAMP</b> DOT / DES / OTA <b>09-310601</b> DISTRICT - EA Reviewed by: YA WANG Date: 08/26/08	<b>CALIFORNIA STATE FIRE MARSHAL APPROVED</b> Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approvals subject 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: 11/12/08
--	---

**KEY NOTES**

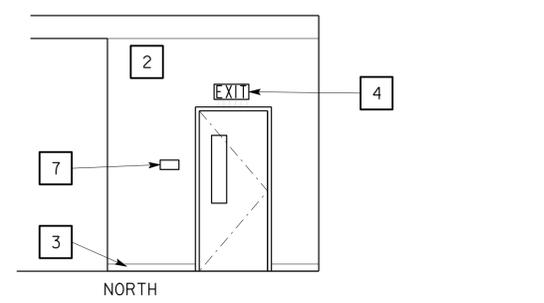
- 1 (E) WALL, PAINT
- 2 GYPSUM BOARD, PAINTED
- 3 4" RESILIENT BASE (7/A6-7)
- 4 SELF LUMINOUS EXIT SIGN
- 5 ROOM IDENTIFICATION SIGN (1/A0-3,3)
- 6 EXIT SIGN (2/A0-3,3)
- 7 "EXIT ROUTE" SIGN (2/A0-3,3) SIM
- 8 (E) CMU, PAINT



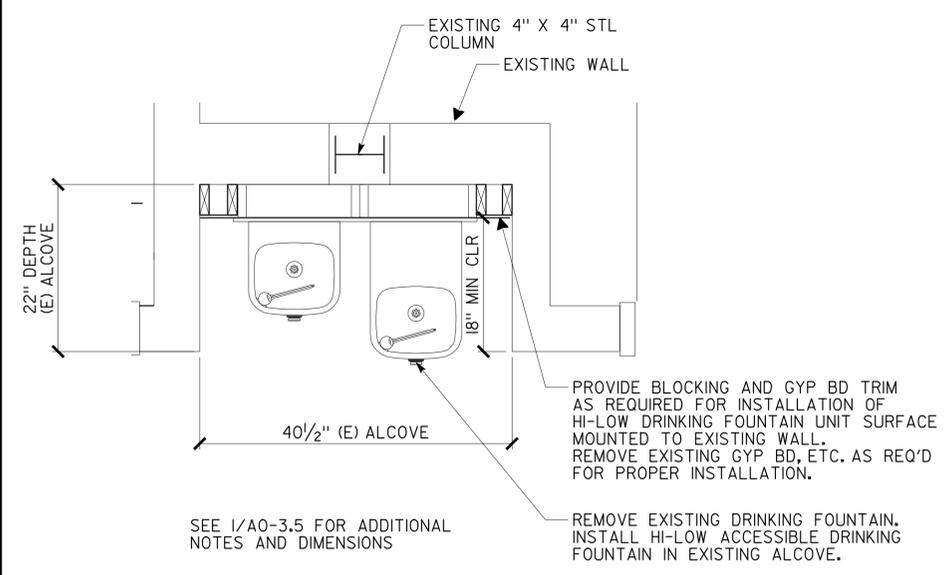
**1 ALCOVE**  
SCALE 1/4" = 1'-0"



**2 PARTS ROOM**  
SCALE 1/4" = 1'-0"



**3 PARTS ROOM**  
SCALE 1/4" = 1'-0"



**4 PARTIAL PLAN-DRINKING FOUNTAIN ALCOVE**  
SCALE 1" = 1'-0"

NOTE:  
MANUFACTURER'S DESIGNATIONS BELOW ARE INCLUDED AS EXAMPLES OF COLORS ONLY. OTHER MANUFACTURER'S PRODUCTS WHEN MATCH THESE PRODUCTS MAY BE SUBMITTED FOR APPROVAL

MOTOR REPAIR SHOP COLOR SCHEDULE			
	ITEM	COLOR	MANUFACTURER
EXTERIOR	PLASTER	MATCH EXISTING	
	DOORS AND FRAMES	MATCH EXISTING	
	CANOPY	MATCH CANOPY ON SOUTH ELEVATION	
INTERIOR	GYP BD WALLS AND CEILING	MATCH EXISTING	
	DOORS AND FRAMES	MATCH EXISTING	
	RESILIENT BASE	425 MERLOT	BURKE MERCER

a2_4.dgn DS OSD Imperial Rev. 11/98 04-JAN-2010 07:14	DESIGN BY LANI RHOADES CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 5505	SHOP 29 FACILITY REMODEL INTERIOR ELEVATIONS	SHEET OF X X
	DETAILS BY LANI RHOADES CHECKED		POST MILE	MOTOR REPAIR SHOP		REVISION DATES (PRELIMINARY STAGE ONLY)
QUANTITIES BY CHECKED	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		CU 09 I23 EA 310601	DISREGARD PRINTS BEARING EARLIER REVISION DATES	- -01 XX-XX-XX	

04-JAN-2010 07:14

# DOOR SCHEDULE

NUMBER	TYPE	DOOR				FRAME		HARDWARE GROUP	LABEL	LOUVER	DETAILS			REMARKS
		WIDTH	HEIGHT	THICK.	MATERIAL	GLASS	MATERIAL				WIDTH	HEAD	JAMB	
300	(E)	14'-0"	10'-0"	(E)	(E)	--	(E)	(E)	--	--				NO WORK REQUIRED
301	(E)	3'-0"	6'-9"	(E)	(E)	--	(E)	(E)	--	--				NO WORK REQUIRED
302	(E)	3'-0"	6'-9"	(E)	(E) MET	NO	(E) PMF	(E)	--	--				NO WORK REQUIRED

## NOTE AND LEGEND:

- (E) DOOR, DOOR FRAME & HARDWARE TO REMAIN
- (E) DOOR HARDWARE TO BE REPLACED WITH NEW. OR NEW ADDED DOOR OR NEW DOOR HARDWARE. PAINT DOOR AND FRAME TO MATCH EXISTING.

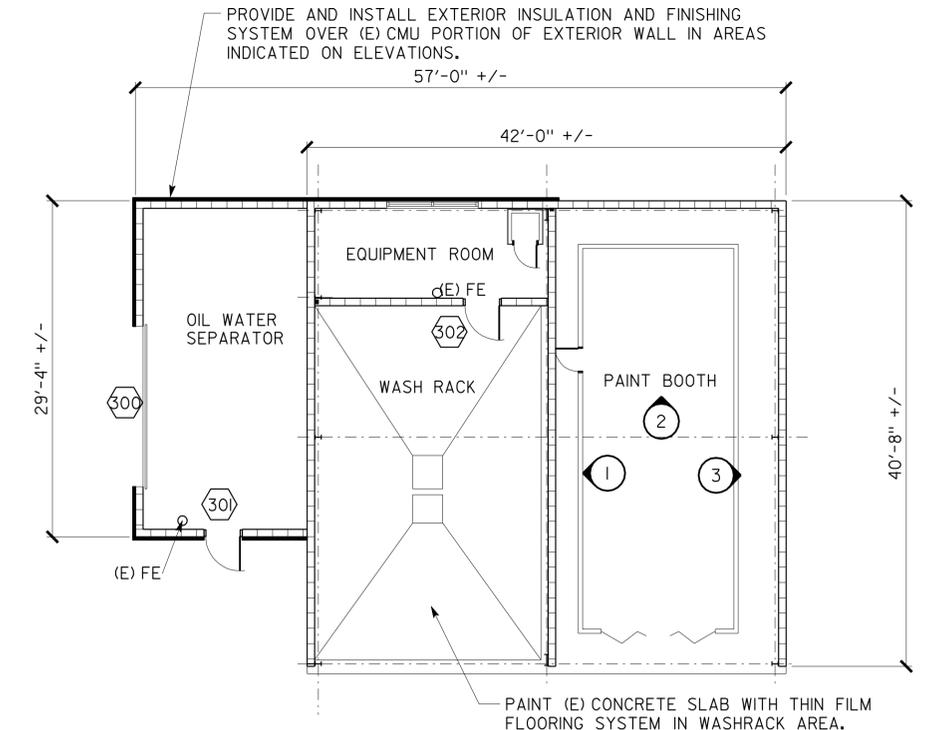
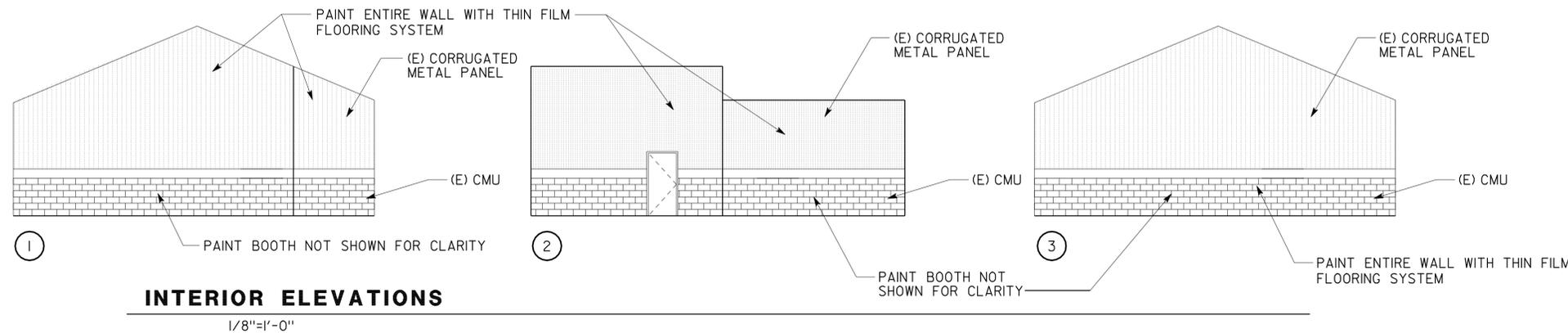
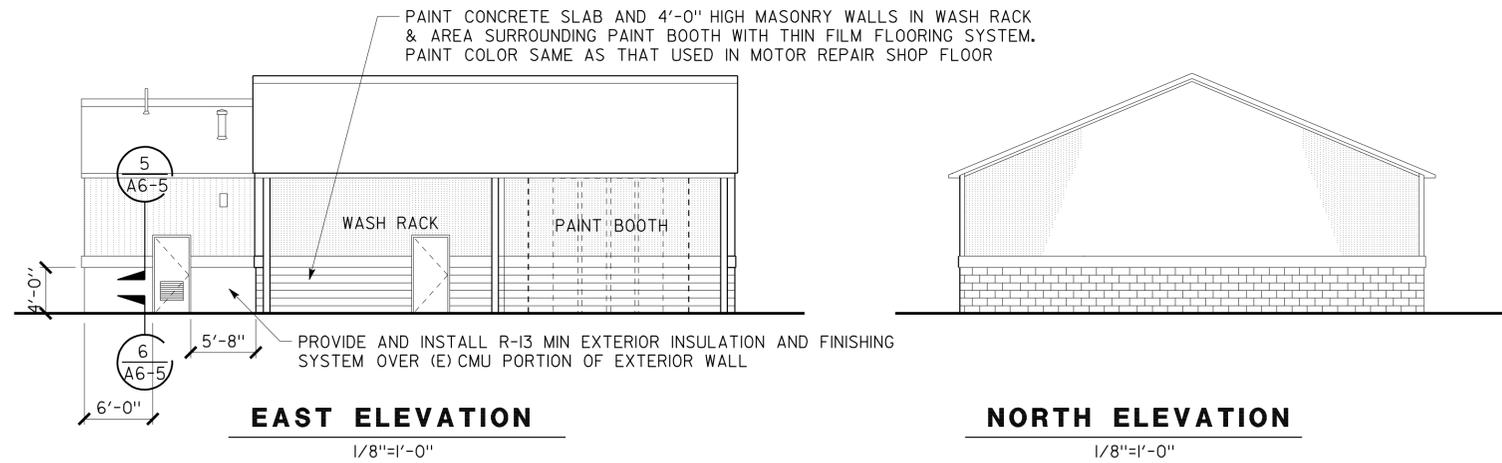
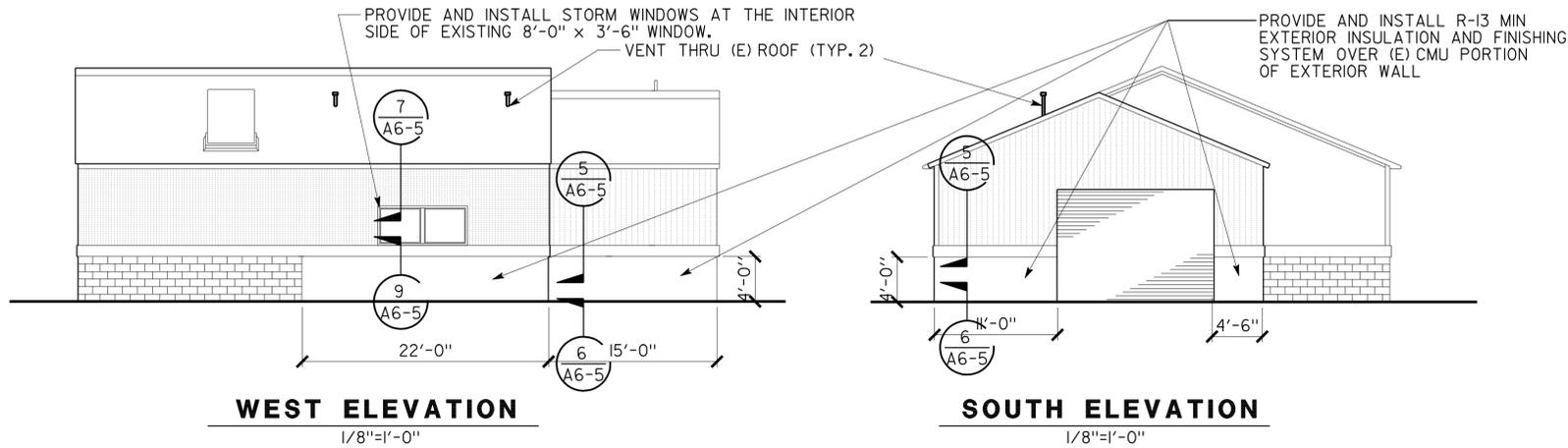
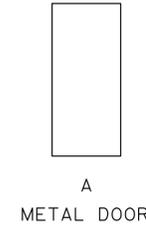
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		35	102

*Lani Rhoades* 08/29/08  
 LICENSED ARCHITECT DATE

11-17-08  
 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.

## DOOR TYPES



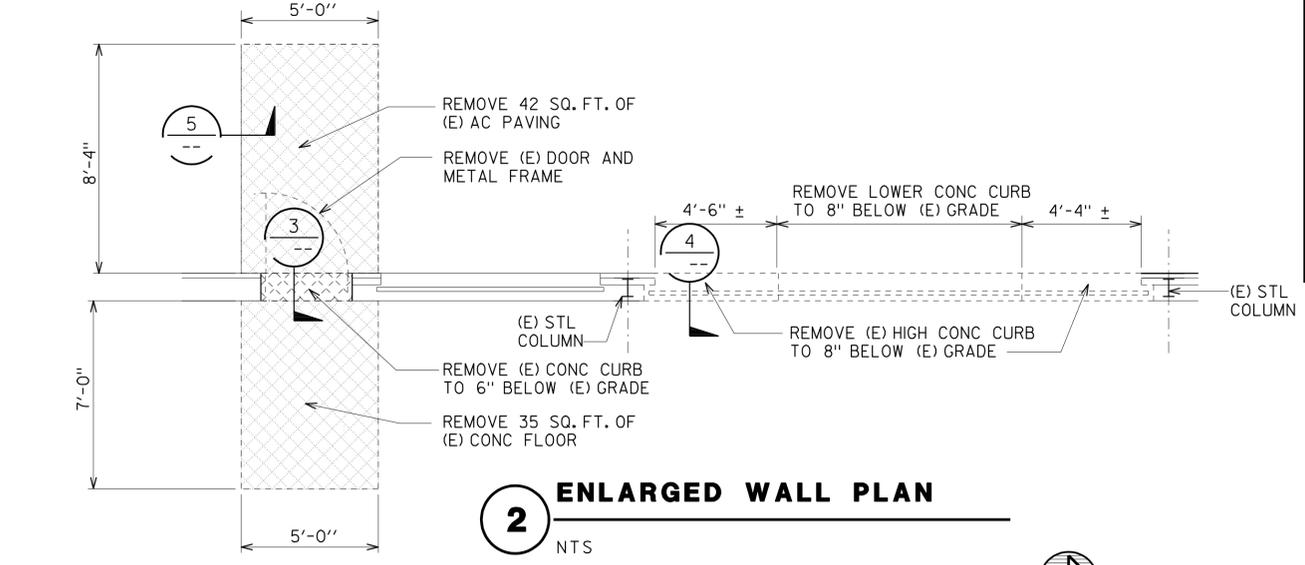
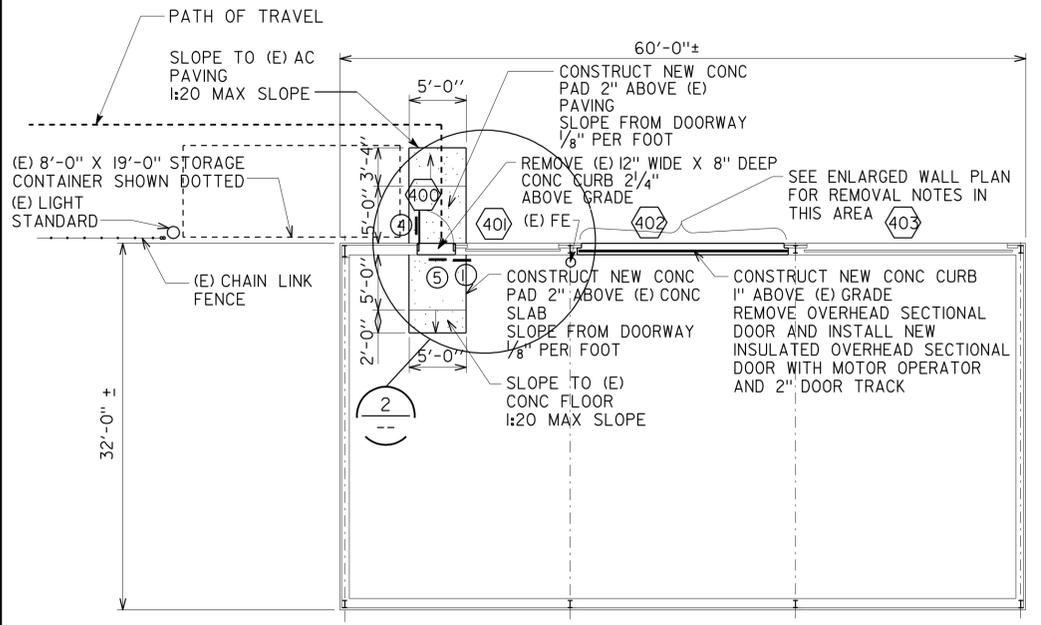
**1** EXISTING WASH BUILDING FLOOR PLAN  
SCALE 1/8" = 1'-0"

a3_1.dgn DS OSD Imperial Rev. 11/98 04-JAN-2010 07:14	DESIGN BY LANI RHOADES	CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 5505	SHOP 29 FACILITY REMODEL FLOOR PLAN, ELEVATIONS AND SCHEDULES	SHEET
	DETAILS BY LANI RHOADES	CHECKED			POST MILE WASH RACK BUILDING		A3-1
	QUANTITIES BY	CHECKED	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 09 I23 EA 310601	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF X X

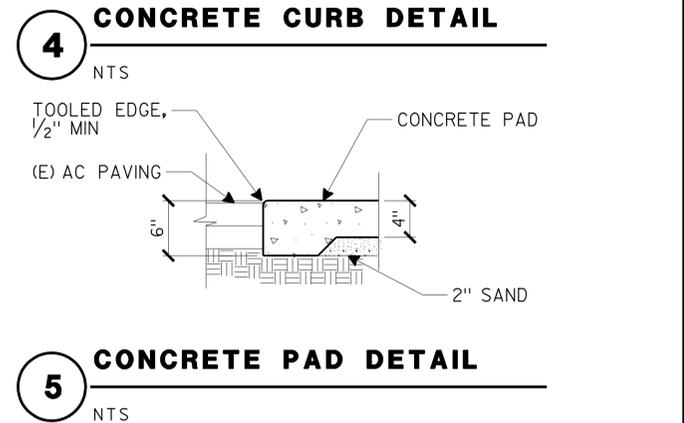
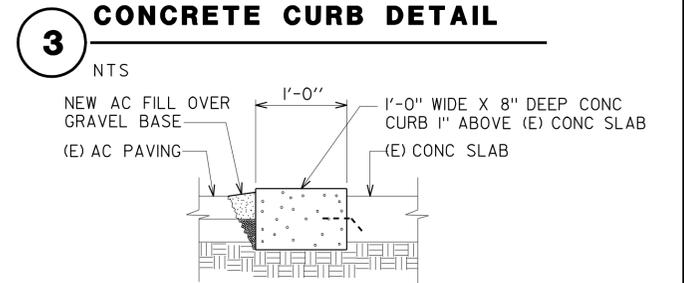
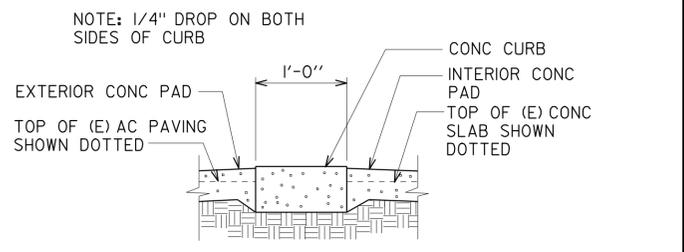
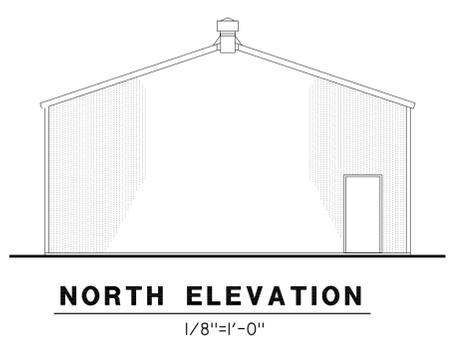
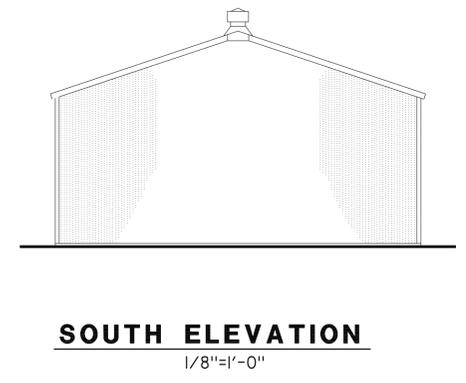
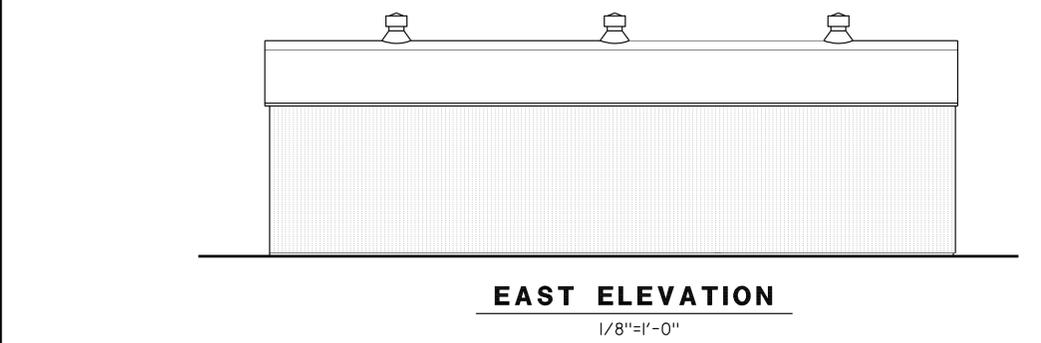
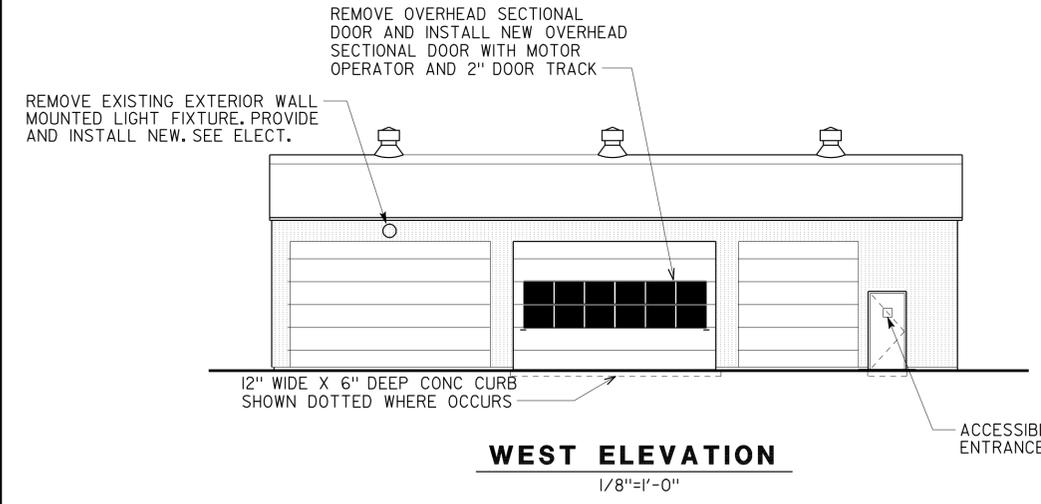
04-JAN-2010 07:14

**ACCESSIBILITY DESIGN APPROVAL STAMP**  
 DOT / DES / OTA  
**09-310601**  
 DISTRICT - EA  
 Reviewed by: YA WANG  
 Date: 08/26/08

**CALIFORNIA STATE FIRE MARSHAL APPROVED**  
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. The set of approved plans shall be available on the project site at all times.  
 Reviewed by: Pam Emick  
 PAM EMICK  
 Approval date: 11/12/08



BUILDING AND DOOR SIGNAGE		
Numbers are applicable where noted on plans		
Number on Plan	Signage Text or Content	Detail Sheet
①	"Exit"	A0-3.3 DETAIL 2 & 5
②	"Exit Route"	A0-3.3 DETAIL 2 & 5
③	Room IDENTIFICATION SIGN	A0-3.3 DETAIL 1 & 5
④	ACCESSIBLE BUILDING ENTRANCE SIGN	A0-3.3 DETAIL 5 & 6
⑤	SELF ILLUMINATING EXIT SIGN	A6-8 DETAIL 6



DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		37	102

*Lani Rhoades* 08/29/08  
 LICENSED ARCHITECT DATE

11-17-08  
 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.*



### DOOR SCHEDULE

NUMBER	TYPE	DOOR					FRAME		HARDWARE GROUP	LABEL	LOUVER	DETAILS			REMARKS
		WIDTH	HEIGHT	THICK.	MATERIAL	GLASS	MATERIAL	WIDTH				HEAD	JAMB	THRESH	
400	A	3'-0"	6'-8"	1-3/4"	MET	NO	PMF	*	I	--		7 A6-3	8&9 A6-3	6 A6-3	REMOVE EXISTING DOOR, FRAME, AND HARDWARE. PROVIDE NEW IN (E) OPENING
401	(E)	10'-6"	11'-0"	(E)	MET	--	(E)	(E)	--	--					NO WORK REQUIRED
402	B	17'-6"	11'-0"	2"	MET	YES	MET	--	--	--		10 A6-3	11 A6-3	3SIM A6-3	
403	(E)	(E)	(E)	(E)	MET	NO	PMF	(E)	--	-					NO WORK REQUIRED

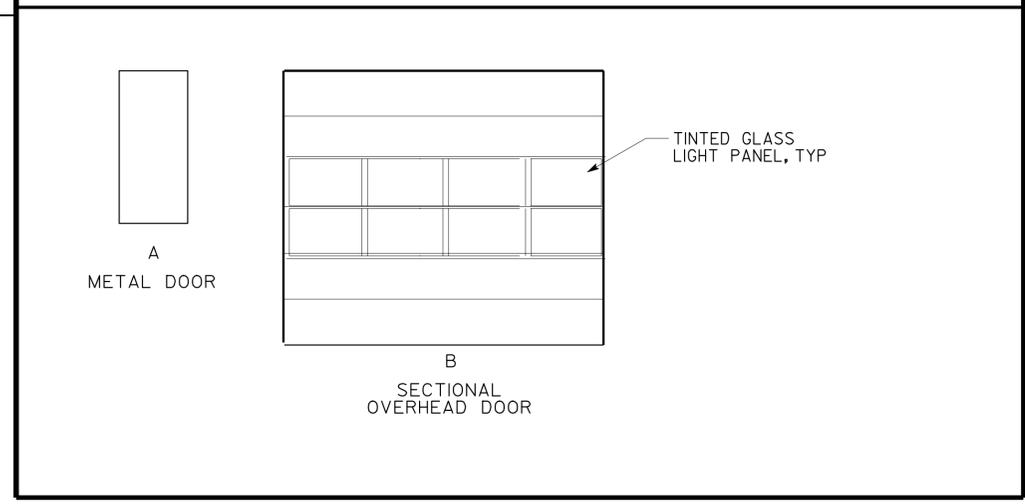
**NOTE AND LEGEND:**

- (D) (E) DOOR, DOOR FRAME & HARDWARE TO REMAIN
- (D) (E) DOOR HARDWARE TO BE REPLACED WITH NEW. OR NEW ADDED DOOR. PAINT DOOR AND FRAME TO MATCH EXISTING.

**ACCESSIBILITY DESIGN APPROVAL STAMP**  
 DOT / DES / OTA  
**09-310601**  
 DISTRICT - EA  
 Reviewed by: *YA WANG*  
 Date: 08/26/08

**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: 11/12/08

### DOOR TYPES



\* FRAME WIDTH TO MATCH EXISTING.

DESIGN BY LANI RHOADES CHECKED	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 5505	<b>SHOP 29 FACILITY REMODEL SCHEDULES</b>	SHEET OF A4-2
DETAILS BY LANI RHOADES CHECKED			POST MILE TIRE SHED		
QUANTITIES BY CHECKED					

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3  
 CU 09 I23 EA 310601  
 DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): - -01 XX-XX-XX

a4\_2.dgn DS OSD Imperial Rev. 11/98 04-JAN-2010 07:14





## DOOR SCHEDULE

NUMBER	DOOR						FRAME		HARDWARE GROUP	LABEL	LOUVER	DETAILS			REMARKS
	TYPE	WIDTH	HEIGHT	THICK.	MATERIAL	GLASS	MATERIAL	WIDTH				HEAD	JAMB	THRESH	
500	A	3'-0"	7'-0"	1-3/4"	MET	YES	PMF	5"	I	--		4 A6-3	5 A6-3	6 A6-3	PROVIDE DOOR SIGNAGE
501	A	3'-0"	7'-0"	1-3/4"	MET	YES	PMF	5"	I	--		4 A6-3	5 A6-3	6 A6-3	PROVIDE DOOR SIGNAGE
502	B	16'-0"	16'-0"	2"	MET	YES	MET	--	-	-		1 A6-3	2 A6-3	3 A6-3	

(E) : EXISTING TO REMAIN

### NOTE AND LEGEND:

- D (E) DOOR, DOOR FRAME & HARDWARE TO REMAIN
- D (E) DOOR HARDWARE TO BE REPLACED WITH NEW. OR NEW ADDED DOOR

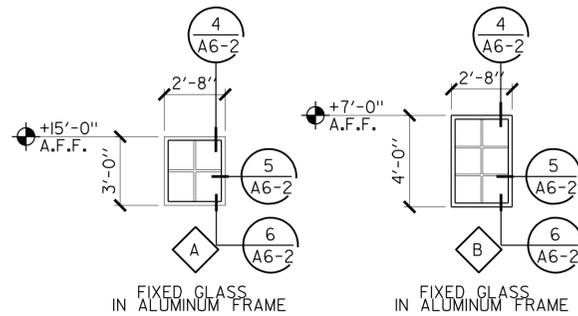
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		40	102

08/29/08  
 LICENSED ARCHITECT DATE

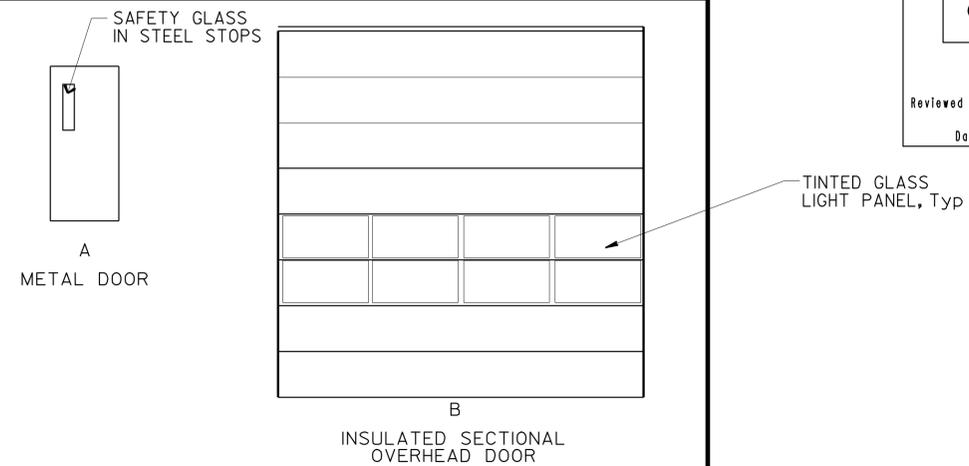
11-17-08  
PLANS APPROVAL DATE

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.

## WINDOW SCHEDULE



## DOOR TYPES



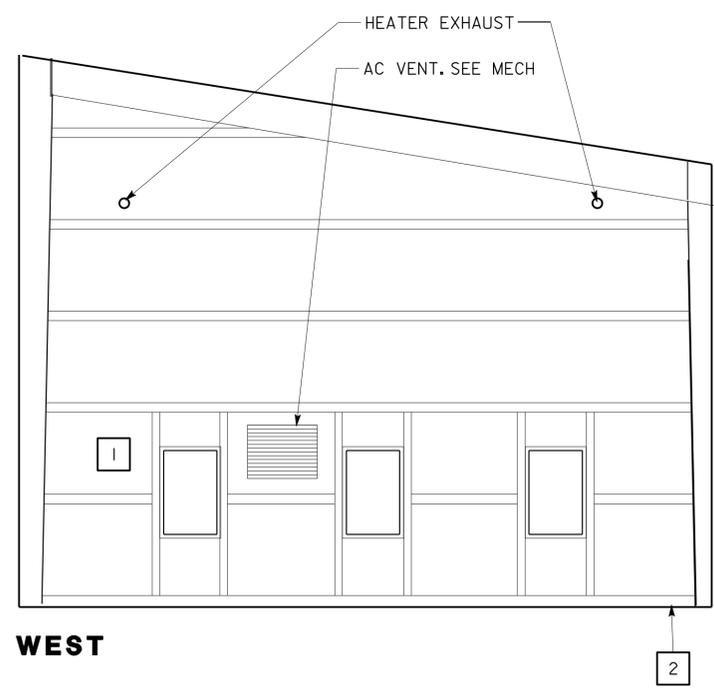
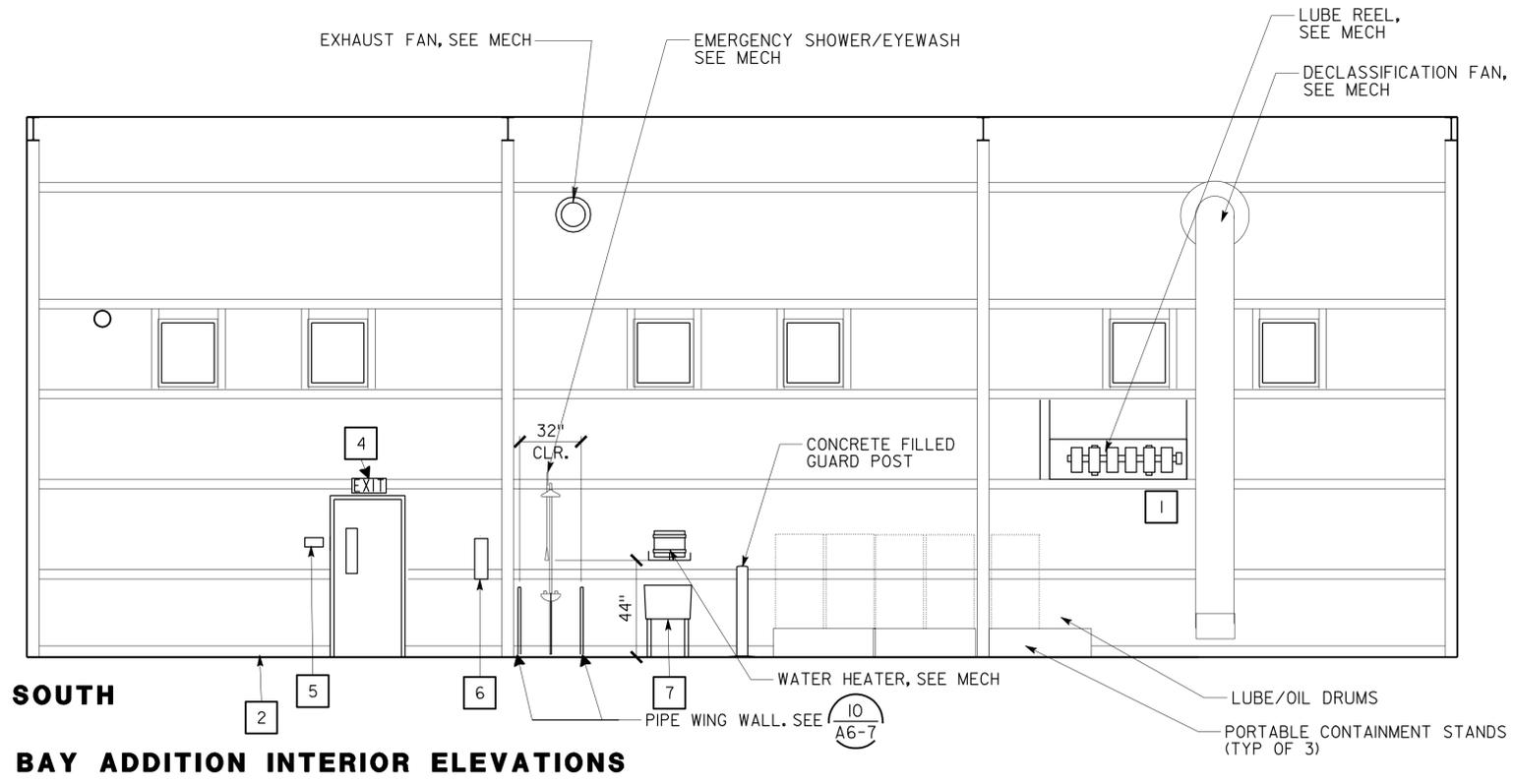
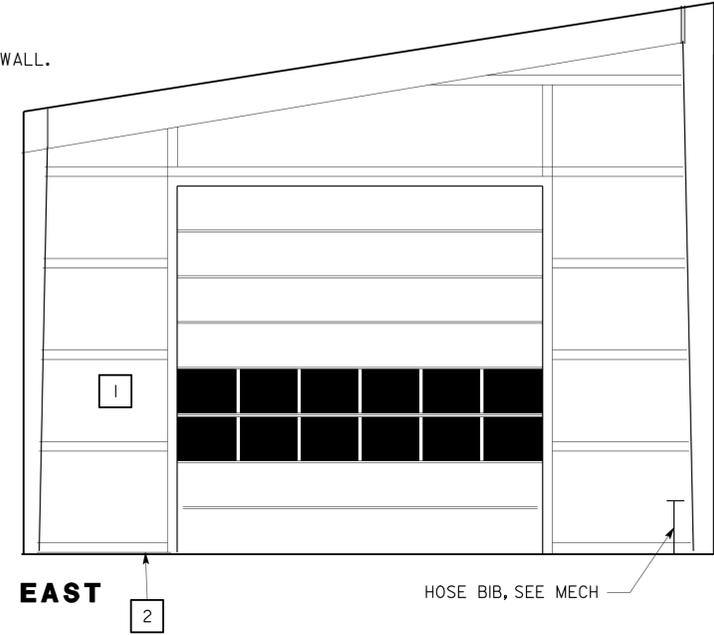
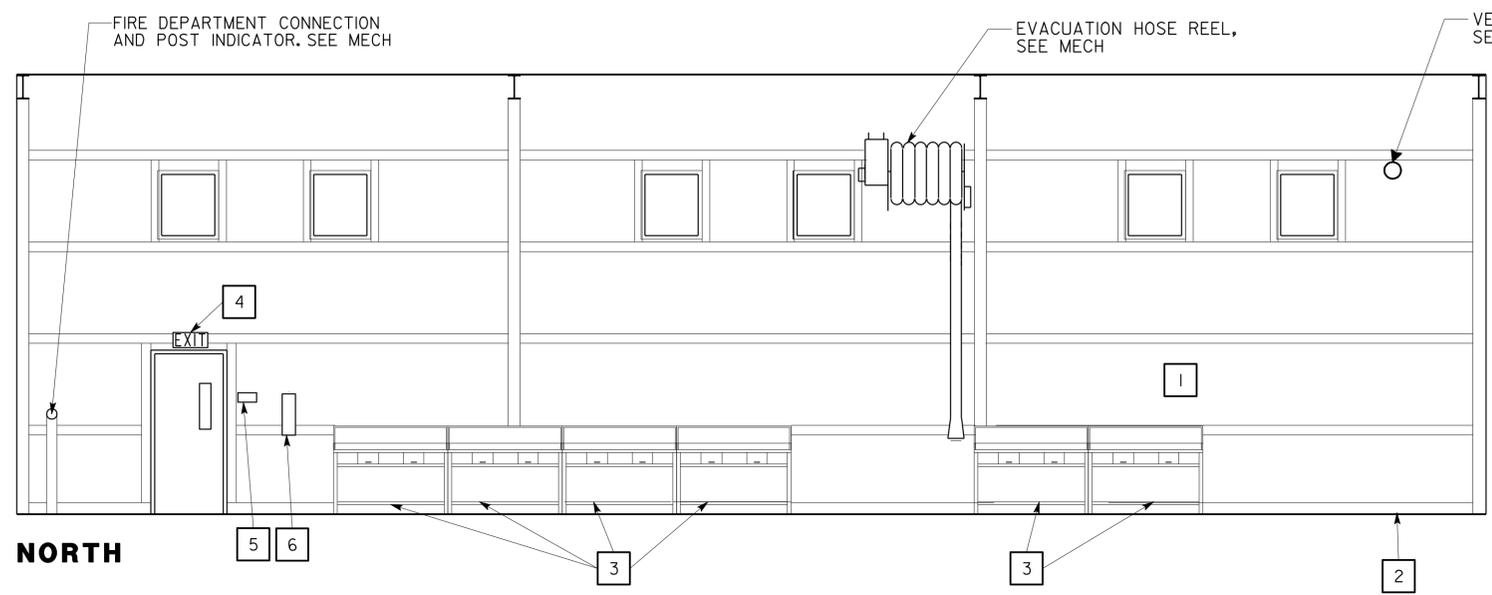
<b>ACCESSIBILITY DESIGN APPROVAL STAMP</b> DOT / DES / OTA <b>09-310601</b> DISTRICT - EA  Reviewed by: Date: 08/26/08	<b>CALIFORNIA STATE FIRE MARSHAL APPROVED</b>  Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.  Reviewed by: PAM EMICK Approval date: 11/12/08
--	---

NOTE:  
MANUFACTURER'S DESIGNATIONS BELOW ARE INCLUDED AS EXAMPLES OF COLORS ONLY. OTHER MANUFACTURER'S PRODUCTS WHEN MATCH THESE PRODUCTS MAY BE SUBMITTED FOR APPROVAL

### SERVICE BAY ADDITION COLOR SCHEDULE

	ITEM	COLOR	MANUFACTURER
EXTERIOR	METAL WALL PANEL	BRICK RED- CF FLUTED	METL-SPAN
	METAL ROOFING PANELS	SANDSTONE	METL-SPAN
	DOORS AND FRAMES	POROUS STONE- LRV 57	DUNN EDWARDS
	OVERHEAD DOORS	POROUS STONE- LRV 57	DUNN EDWARDS
	WINDOW FRAMES	FOREST GREEN	BLOMBERG
	METAL FASCIA AND TRIM	SANDSTONE	METL-SPAN
	CANOPIES	METALLIC SILVER	MAPES
	GUARD POSTS	ACORN SQUASH	DUNN EDWARDS
	EXTERIOR LIGHT FIXTURE	GREEN	EXCELINE KALEIDOSHADE
	WINDOW SILL TRIM	SANDSTONE	METL-SPAN
INTERIOR	EXPOSED STRUCT FRAMING	GREEN BAYOU- LRV 13	DUNN EDWARDS
	METAL WALL PANELS	WHITE	METL-SPAN
	WINDOW FRAMES	FOREST GREEN	BLOMBERG
	DOORS AND FRAMES	POROUS STONE-LRV 57	DUNN EDWARDS
	METAL WORKBENCH	SUBMIT MFG. STANDARD COLOR PALETTE	

DESIGN BY LANI RHOADES CHECKED DETAILS BY LANI RHOADES CHECKED QUANTITIES BY CHECKED	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 5505 POST MILE	<b>SHOP 29 FACILITY REMODEL SCHEDULES</b>	SHEET OF <b>A5-3</b>
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		CU 09 I23 EA 310601		DISREGARD PRINTS BEARING EARLIER REVISION DATES →	



**ACCESSIBILITY DESIGN APPROVAL STAMP**  
 DOT / DES / OTA  
**09-310601**  
 DISTRICT - EA

Reviewed by: *YA WANG*  
 Date: 08/26/08

**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: 11/12/08

- KEY NOTES**
- 1 EXPOSED INSULATED METAL PANEL
  - 2 CONCRETE CURB
  - 3 METAL WORKBENCH (9 A6-2)
  - 4 SELF LUMINOUS EXIT SIGN
  - 5 EXIT SIGN (2 A0-3.3)
  - 6 WALL MOUNTED FIRE EXTINGUISHER
  - 7 SERVICE SINK

SCALE 1/4" = 1'-0"

a5_4.dgn DS OSD Imperial Rev. 11/98 04-JAN-2010 07:15	DESIGN BY LANI RHOADES CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 5505	SERVICE BAY ADDITION	SHOP 29 FACILITY REMODEL INTERIOR ELEVATIONS	SHEET OF <b>A5-4</b>
	DETAILS BY LANI RHOADES CHECKED			POST MILE			
QUANTITIES BY CHECKED		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		CU 09 I23 EA 310601	DISREGARD PRINTS BEARING EARLIER REVISION DATES		a5_4.dgn

04-JAN-2010 07:15

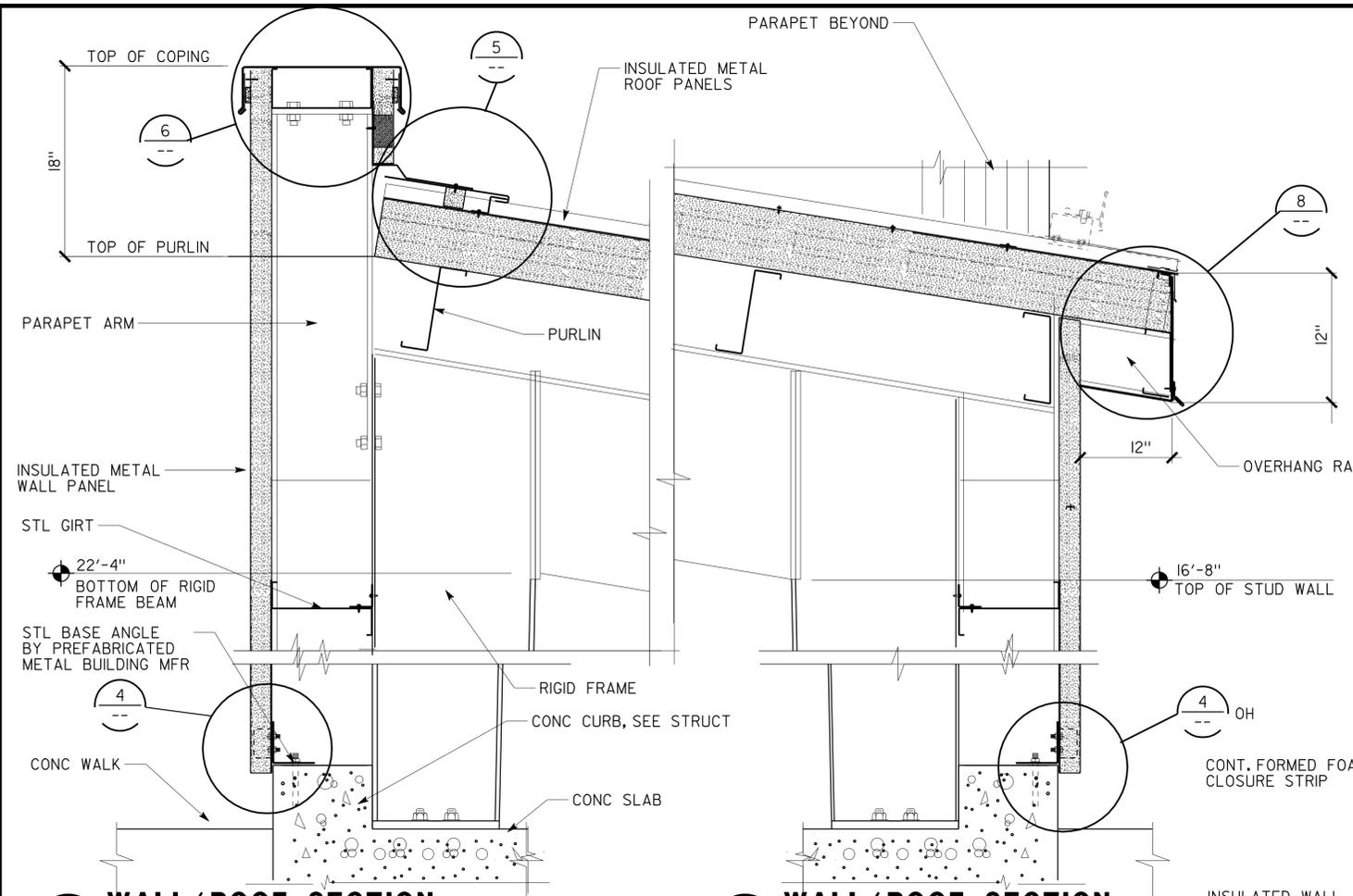
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		42	102

*Lani Rhoades* 08/29/08  
 LICENSED ARCHITECT DATE  
 No. C-26695  
 Exp. 10/31/09  
 STATE OF CALIFORNIA

11-17-08  
 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 DESIGN APPROVAL STAMP**  
 DOT / DES / OTA  
**09-310601**  
 DISTRICT - EA  
 Reviewed by: *YA WANG*  
 Date: 08/26/08

**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: 11/12/08

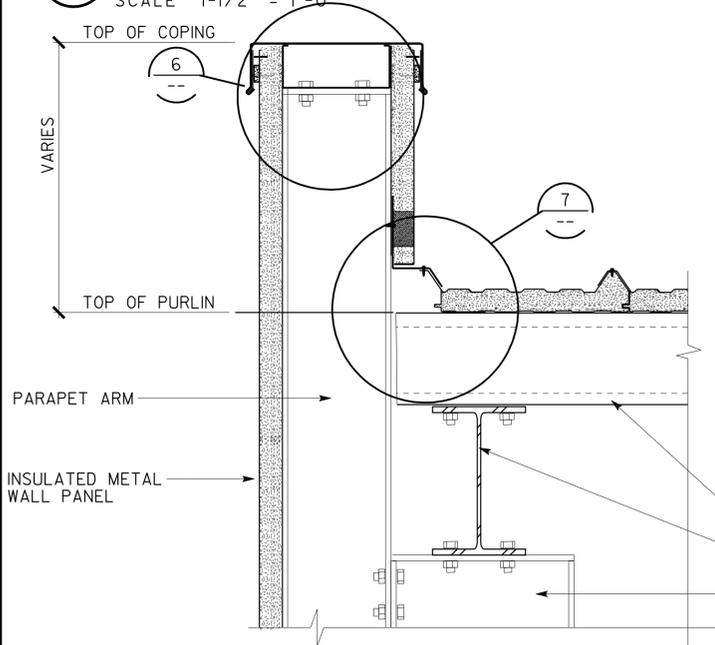


**1 WALL/ROOF SECTION**

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

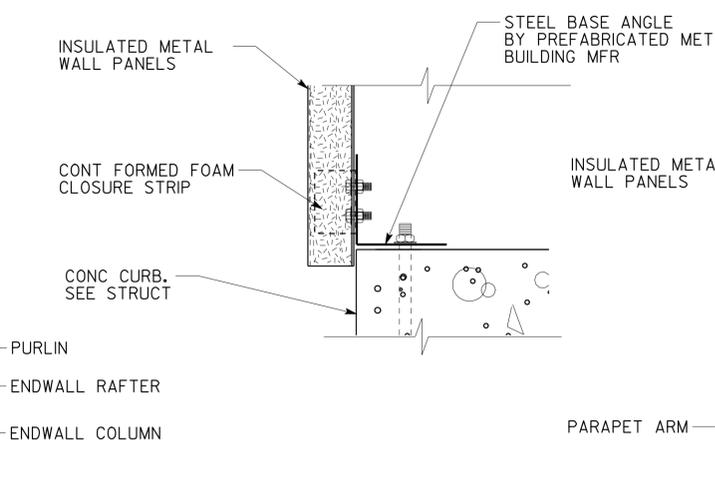
**3 WALL/ROOF SECTION**

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



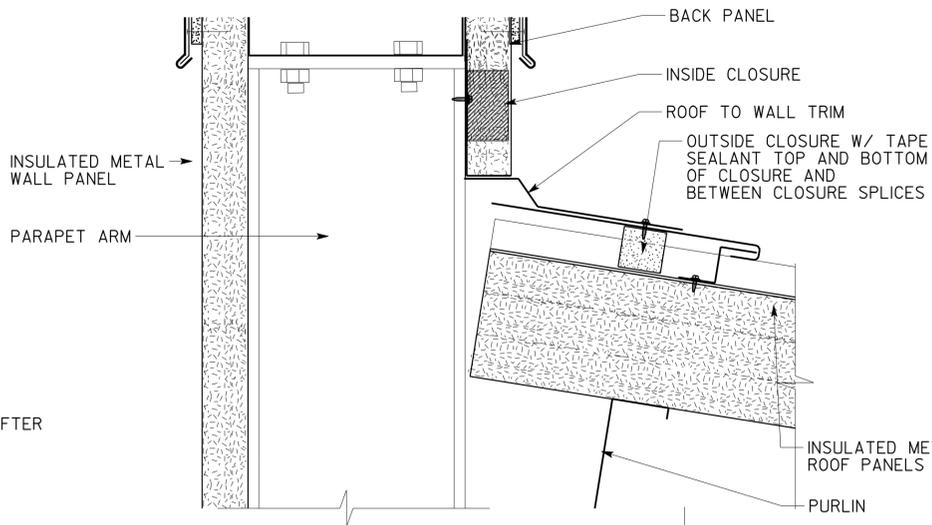
**2 PARAPET DETAIL**

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



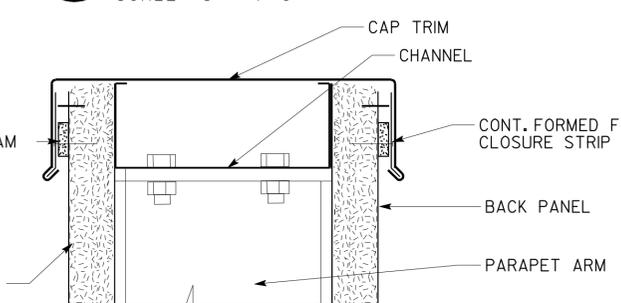
**4 WALL DETAIL**

SCALE 3" = 1'-0"



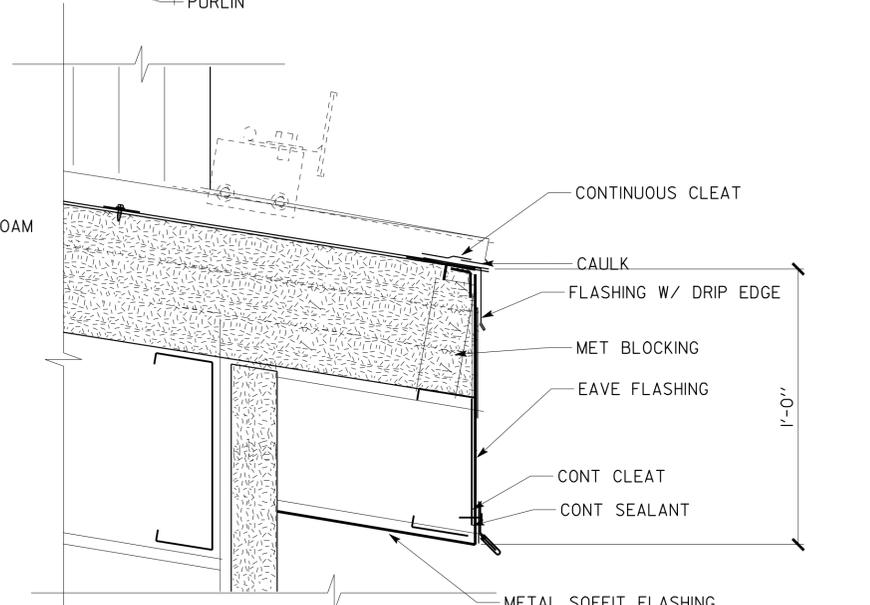
**5 PARAPET DETAIL**

SCALE 3" = 1'-0"



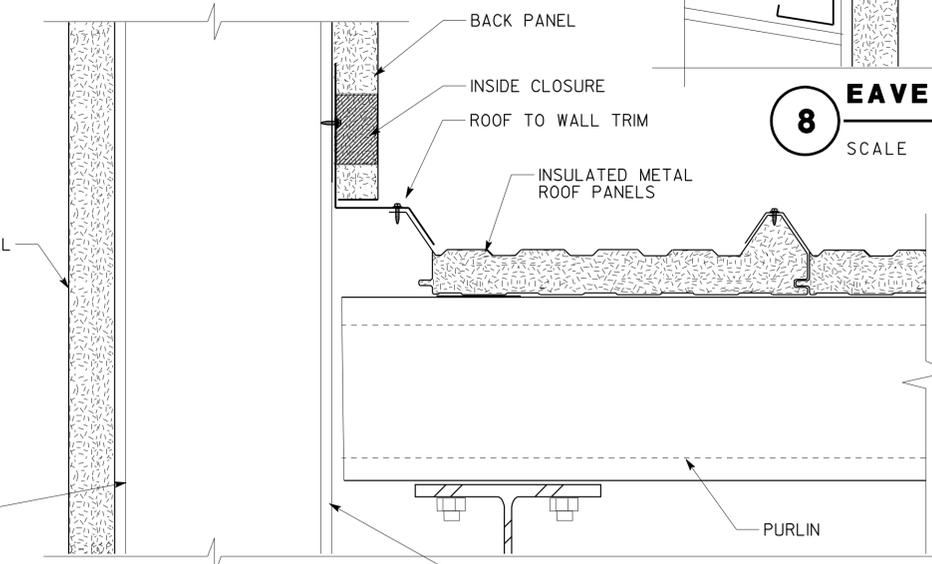
**6 PARAPET DETAIL**

SCALE 3" = 1'-0"



**8 EAVE DETAIL**

SCALE 3" = 1'-0"



**7 PARAPET DETAIL**

SCALE 3" = 1'-0"

a6_1.dgn DS OSD Imperial Rev. 11/98 04-JAN-2010 07:15	DESIGN	BY LANI RHOADES	CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO.	5505	<b>SHOP 29 FACILITY REMODEL</b> WALL AND ROOF DETAILS	SHEET	A6-1	
	DETAILS	BY LANI RHOADES	CHECKED			POST MILE			REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF
	QUANTITIES	BY	CHECKED							X	X

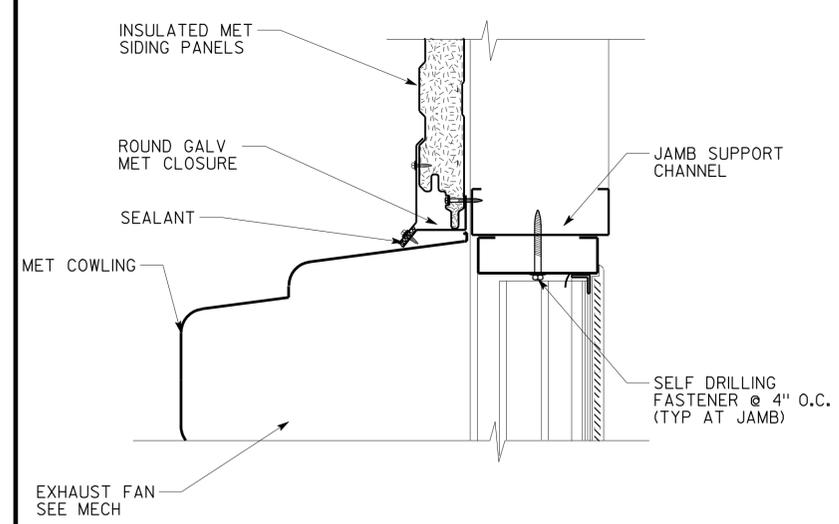
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3  
 CU 09 I23 EA 310601  
 DISREGARD PRINTS BEARING EARLIER REVISION DATES: -01 XX-XX-XX

04-JAN-2010 07:15

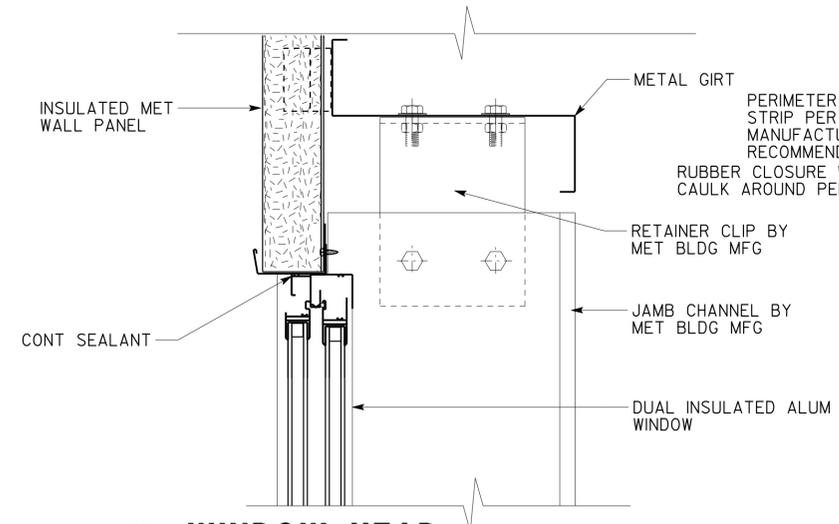
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		43	102

*Lani Rhoades* 08/29/08  
 LICENSED ARCHITECT DATE  
 No. C-26695  
 Exp. 10/31/09  
 STATE OF CALIFORNIA

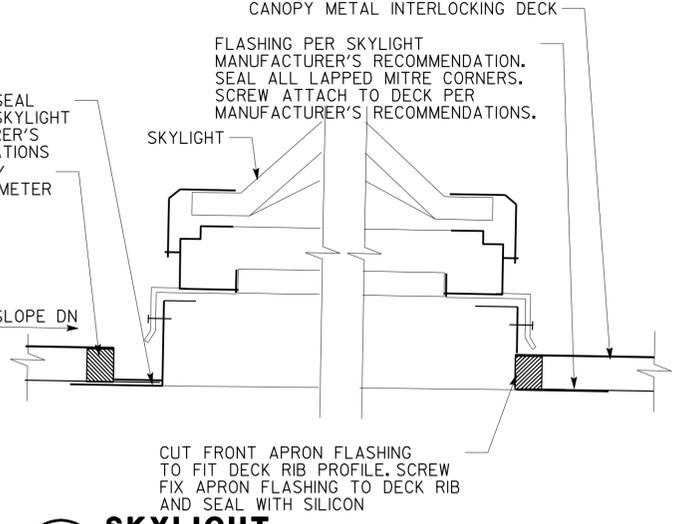
11-17-08  
 PLANS APPROVAL DATE  
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



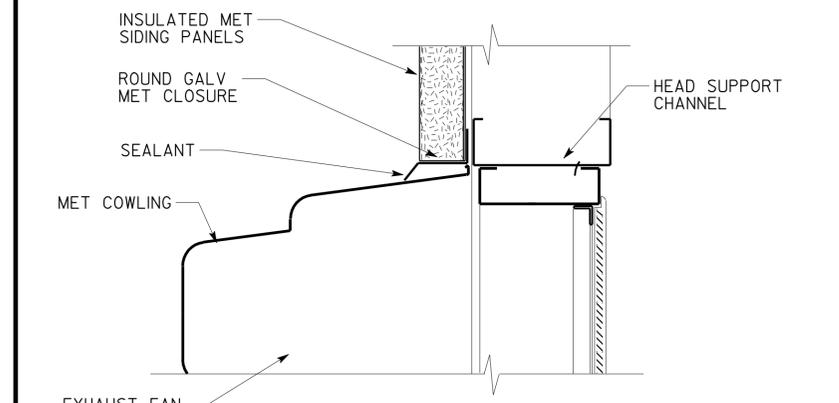
**1 EXHAUST FAN JAMB**  
 1-1/2" = 1'-0"



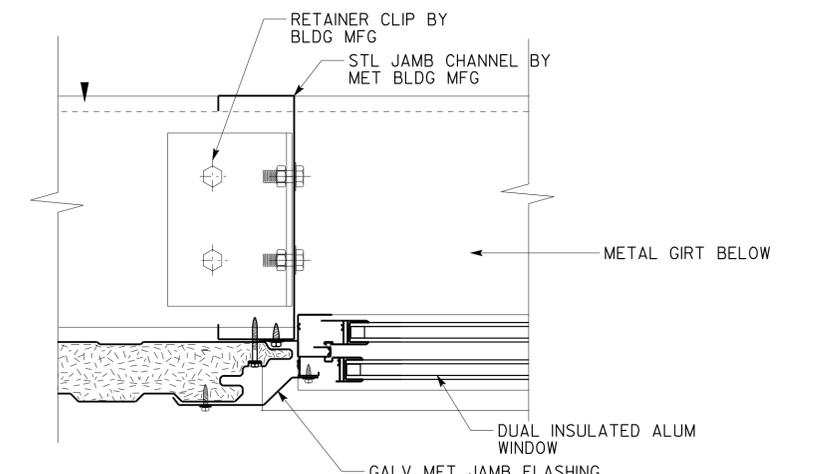
**4 WINDOW HEAD**  
 SCALE 3" = 1'-0"



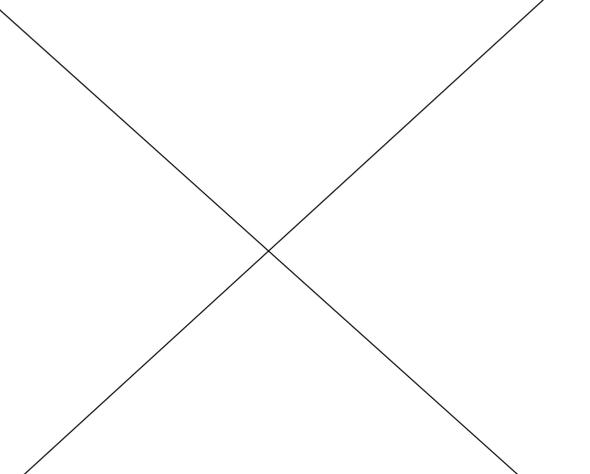
**7 SKYLIGHT**  
 1-1/2" = 1'-0"



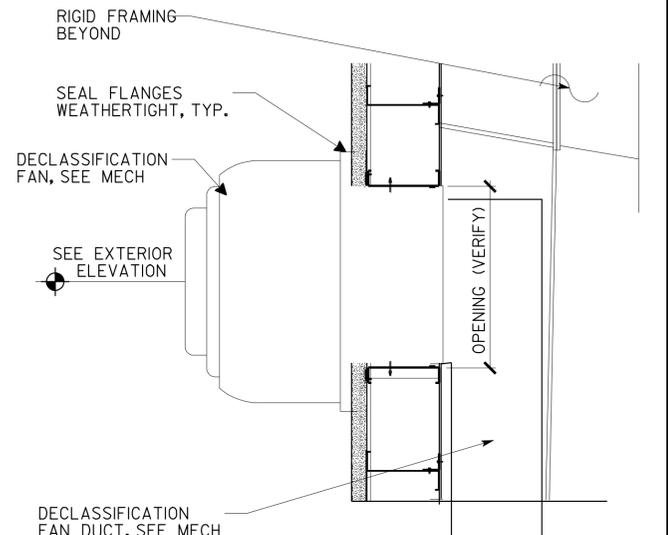
**2 EXHAUST FAN HEAD (SILL SIM.)**  
 1-1/2" = 1'-0"



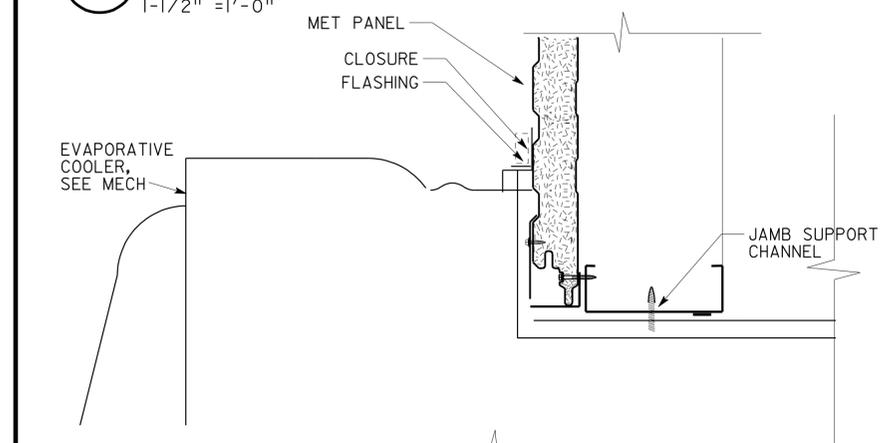
**5 WINDOW JAMB**  
 SCALE 3" = 1'-0"



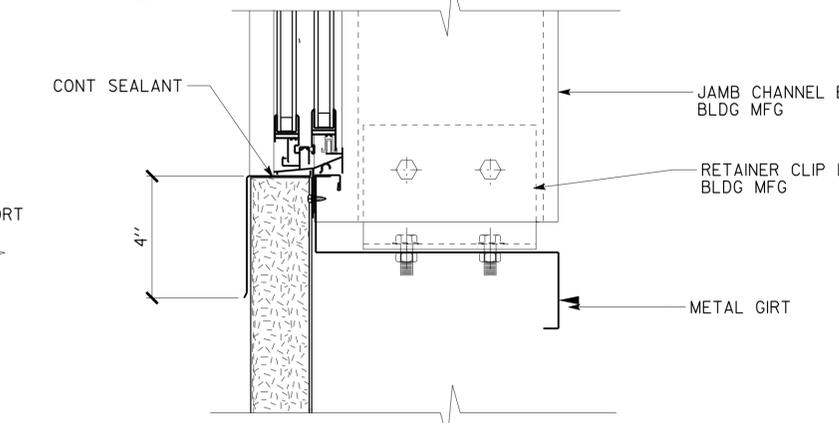
**8 NOT USED**



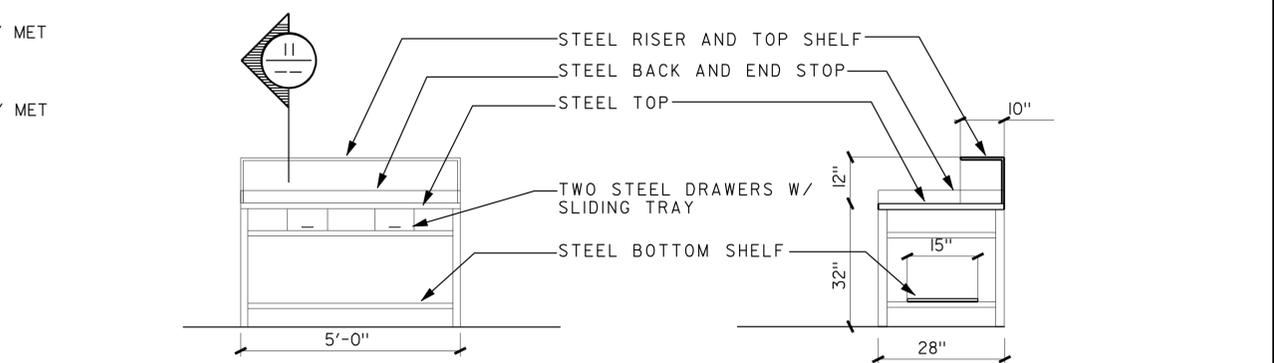
**10 DECLASS FAN THRU WALL**  
 1-1/2" = 1'-0"



**3 EVAPORATIVE COOLER FLASHING**  
 1-1/2" = 1'-0"



**6 WINDOW SILL**  
 SCALE 3" = 1'-0"



**9 WORKBENCH**  
 NOT TO SCALE

**11 WORKBENCH**  
 NOT TO SCALE

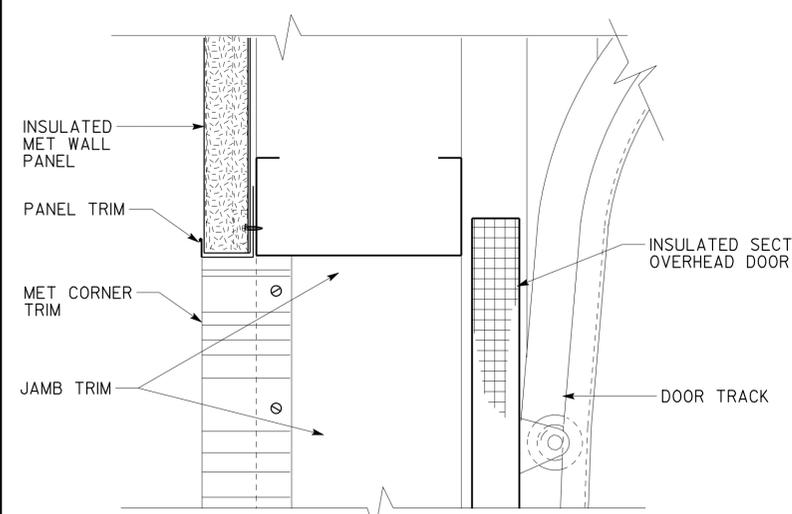
DESIGN	BY LANI RHOADES	CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO.	<b>SHOP 29 FACILITY REMODEL</b> MISCELLANEOUS DETAILS	SHEET
DETAILS	BY LANI RHOADES	CHECKED		ARCHITECTURAL AND STRUCTURAL DESIGN	5505		A6-2
QUANTITIES	BY	CHECKED			POST MILE		

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3  
 CU 09 I23 EA 310601  
 DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)									
-01	XX								

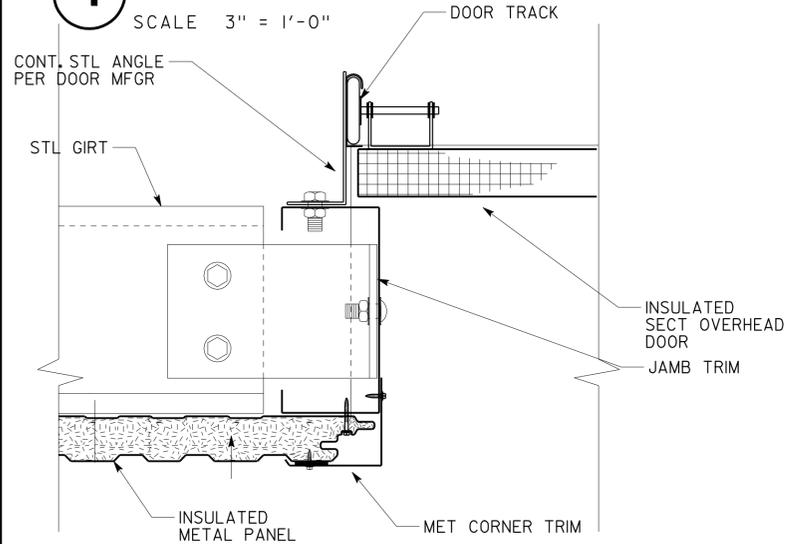
a6\_2.dgn DS OSD Imperial Rev. 11/98 04-JAN-2010 07:37  
 04-JAN-2010 07:37

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		44	102
 LICENSED ARCHITECT			08/29/08	DATE	
11-17-08 PLANS APPROVAL DATE					
<i>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.</i>					



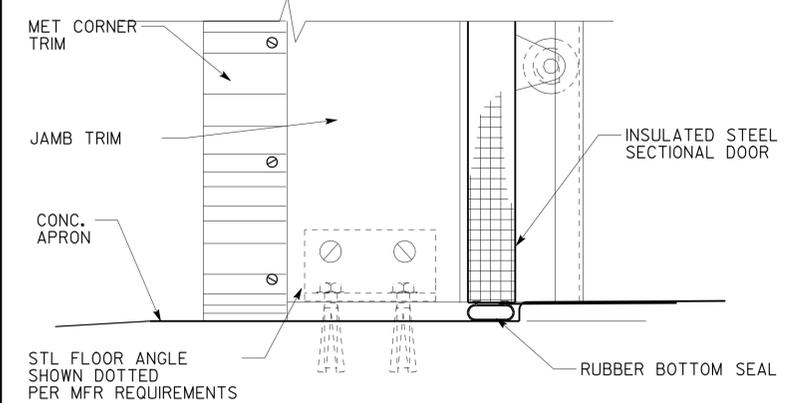
**1 OVERHEAD DOOR HEAD**

SCALE 3" = 1'-0"



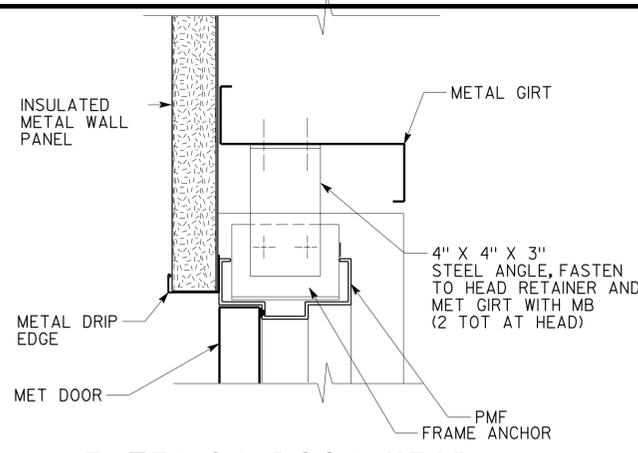
**2 OVERHEAD DOOR JAMB**

SCALE 3" = 1'-0"



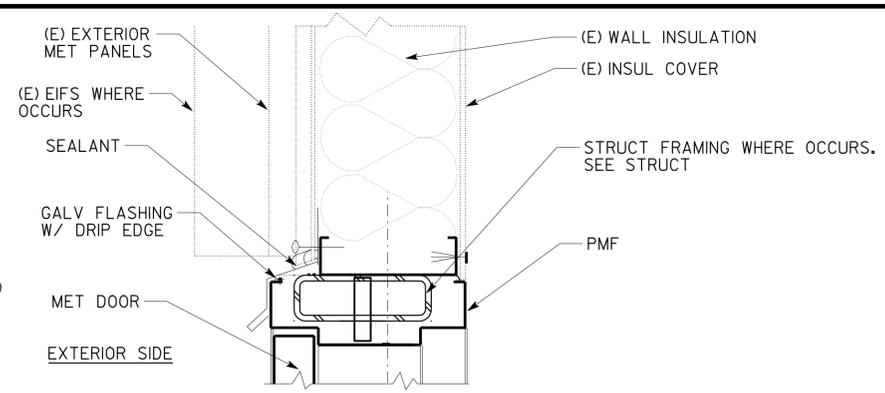
**3 OVERHEAD DOOR**

SCALE 3" = 1'-0"



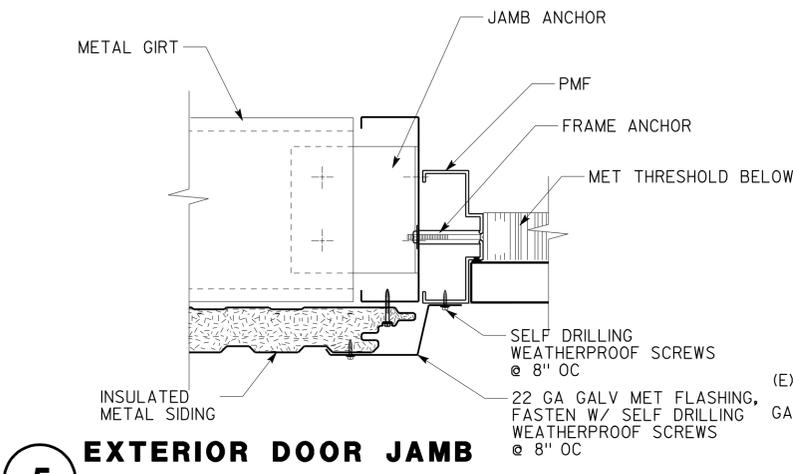
**4 EXTERIOR DOOR HEAD**

SCALE 3" = 1'-0"



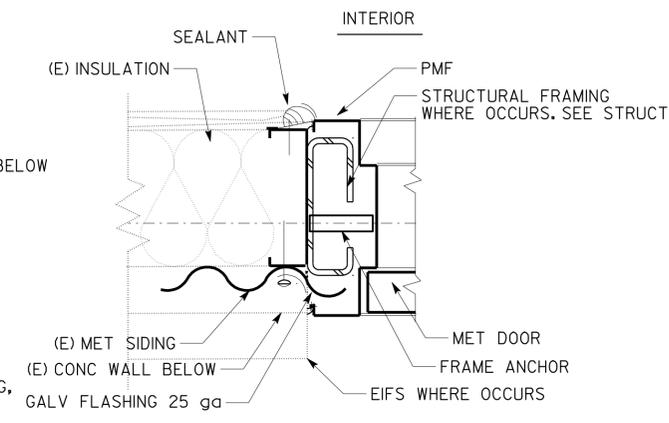
**7 EXTERIOR DOOR HEAD**

SCALE 3" = 1'-0"



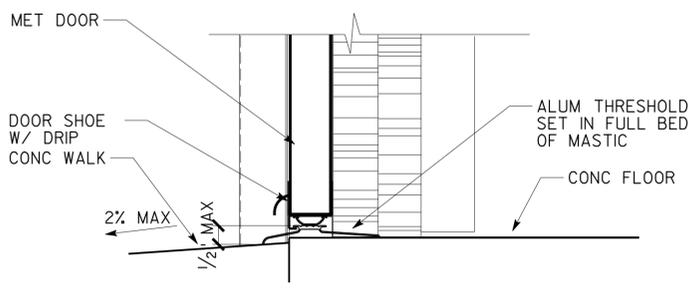
**5 EXTERIOR DOOR JAMB**

SCALE 3" = 1'-0"



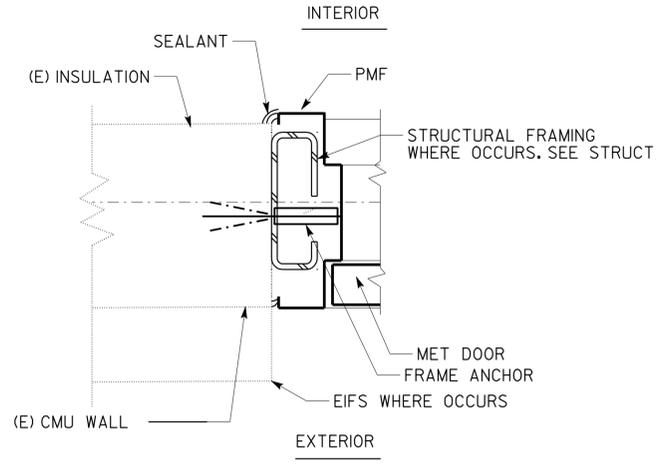
**8 EXTERIOR DOOR JAMB**

SCALE 3" = 1'-0"



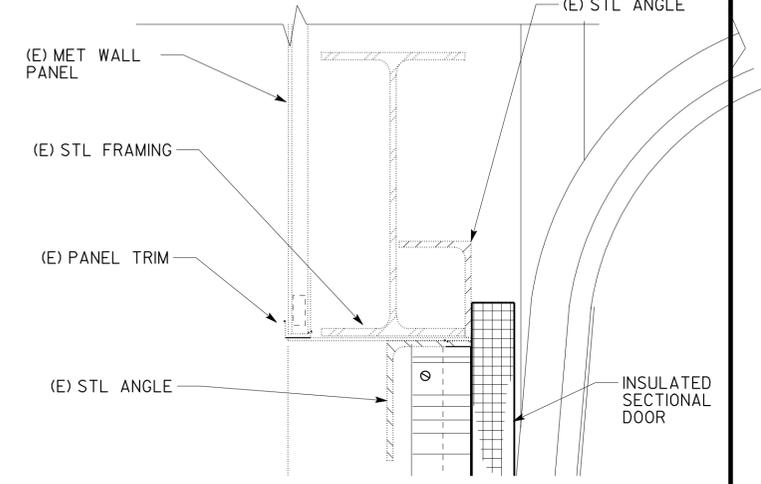
**6 EXTERIOR DOOR THRESHOLD**

SCALE 3" = 1'-0"



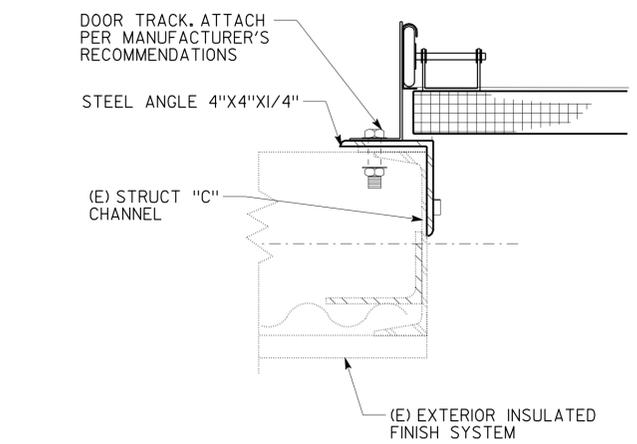
**9 EXTERIOR DOOR JAMB**

SCALE 3" = 1'-0"



**10 OVERHEAD DOOR HEAD**

SCALE 3" = 1'-0"



**11 OVERHEAD DOOR JAMB**

SCALE 3" = 1'-0"

DESIGN	BY LANI RHOADES	CHECKED
DETAILS	BY LANI RHOADES	CHECKED
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

BRIDGE NO.	5505
POST MILE	

SHOP 29 FACILITY REMODEL  
DOOR DETAILS

SHEET A6-3

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 09 123  
EA 310601

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF
- 01 XX-XX-XX		X X

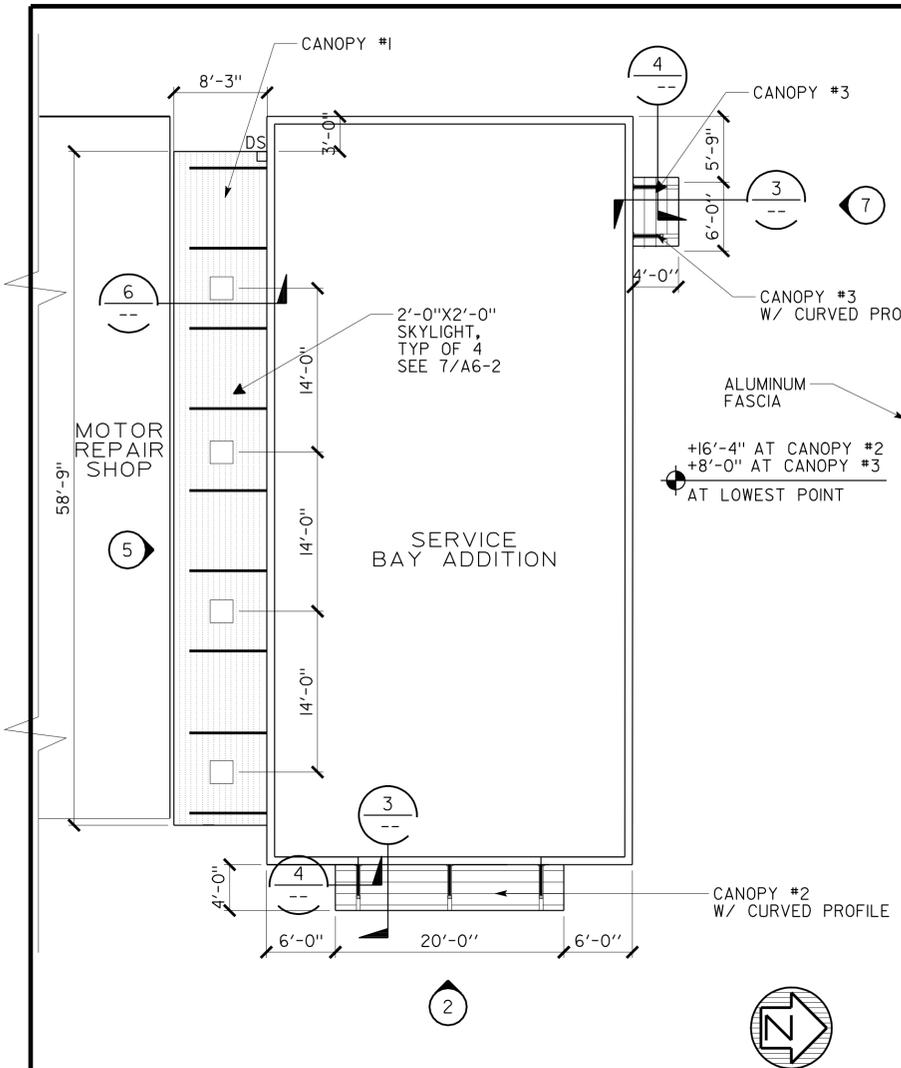
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		45	102

*Lani Rhoades*  
 LICENSED ARCHITECT  
 DATE 08/29/08  
 PLANS APPROVAL DATE 11-17-08  
 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.

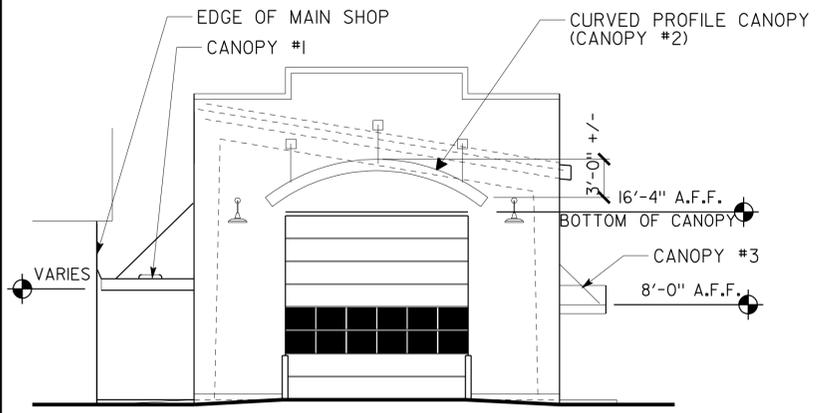
LICENSED ARCHITECT  
**LANI RHOADES**  
 No. C-26695  
 Exp. 10/31/09  
 STATE OF CALIFORNIA

**ACCESSIBILITY DESIGN APPROVAL STAMP**  
 DOT / DES / OTA  
**09-310601**  
 DISTRICT - EA  
 Reviewed by: *YA WANG*  
 Date: 08/26/08

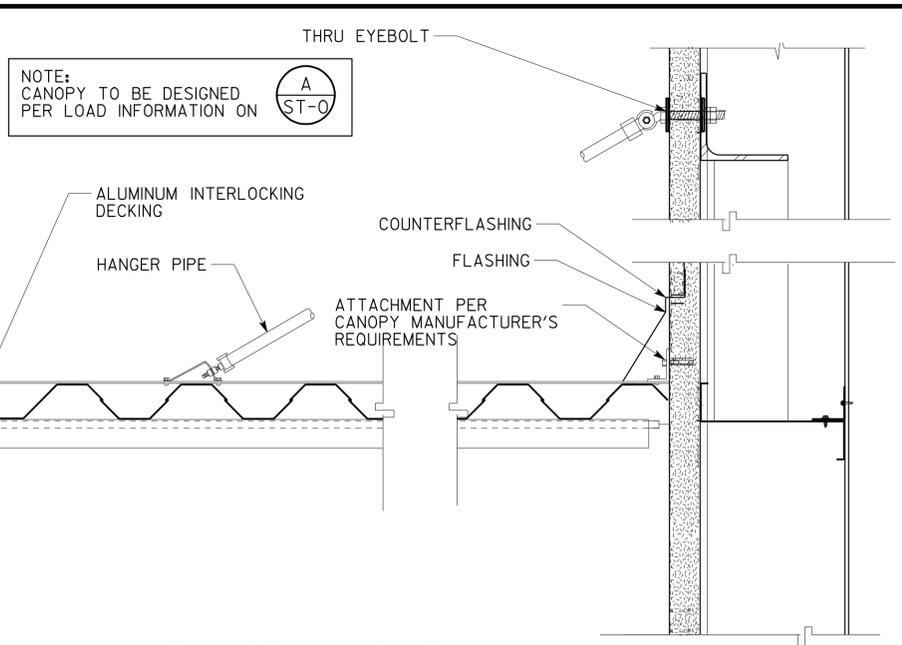
**CALIFORNIA STATE FIRE MARSHAL APPROVED**  
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.  
 Reviewed by: *Pam Emick*  
 PAM EMICK  
 Approval date: 11/12/08



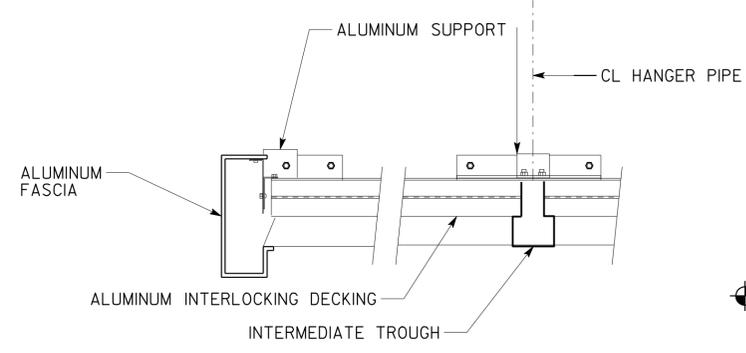
**1 CANOPY PLAN**  
SCALE 1/8" = 1'-0"



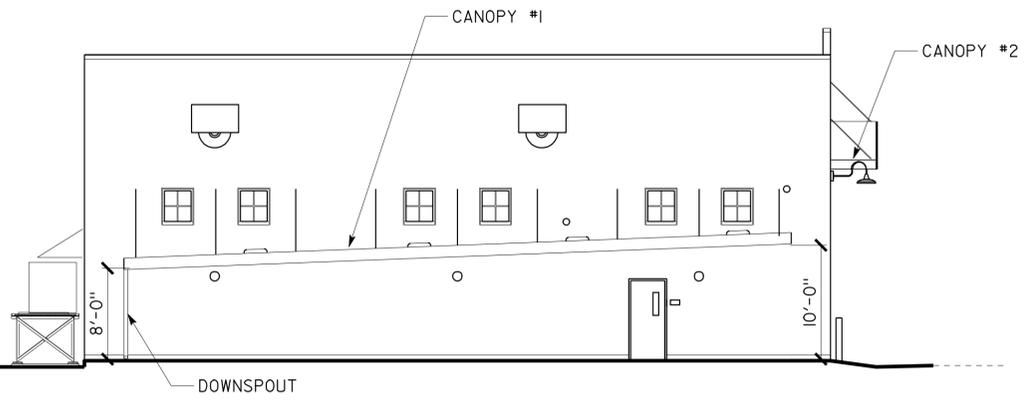
**2 CANOPY ELEVATION**  
SCALE 1/8" = 1'-0"



**3 CANOPY SECTION**  
SCALE 1/2" = 1'-0"

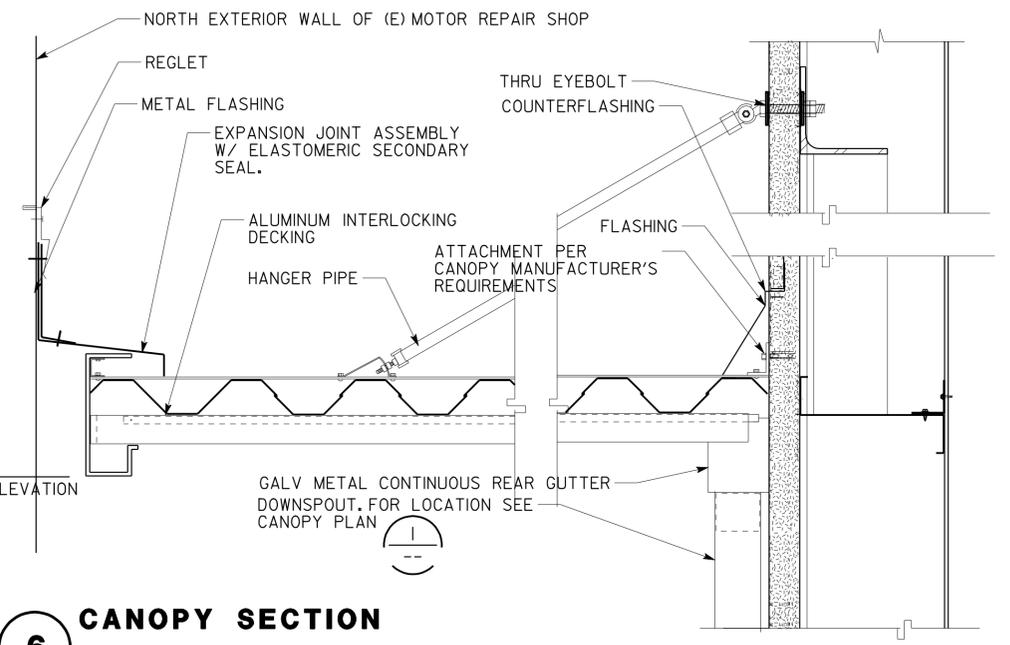


**4 CANOPY SECTION**  
SCALE 1/2" = 1'-0"

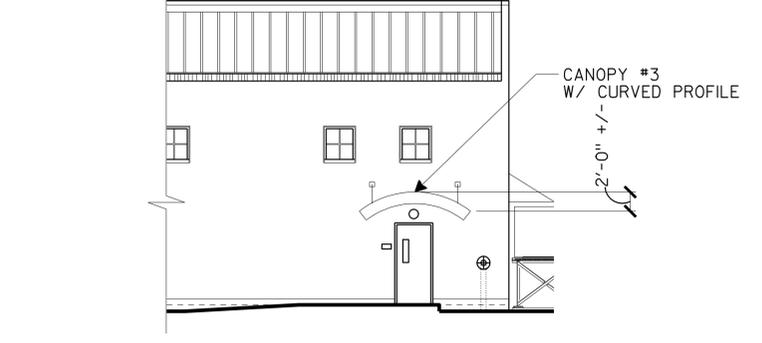


**5 CANOPY ELEVATION**  
SCALE 1/8" = 1'-0"

NOTE: CANOPY TO BE DESIGNED PER LOAD INFORMATION ON A ST-0



**6 CANOPY SECTION**  
SCALE 1/2" = 1'-0"



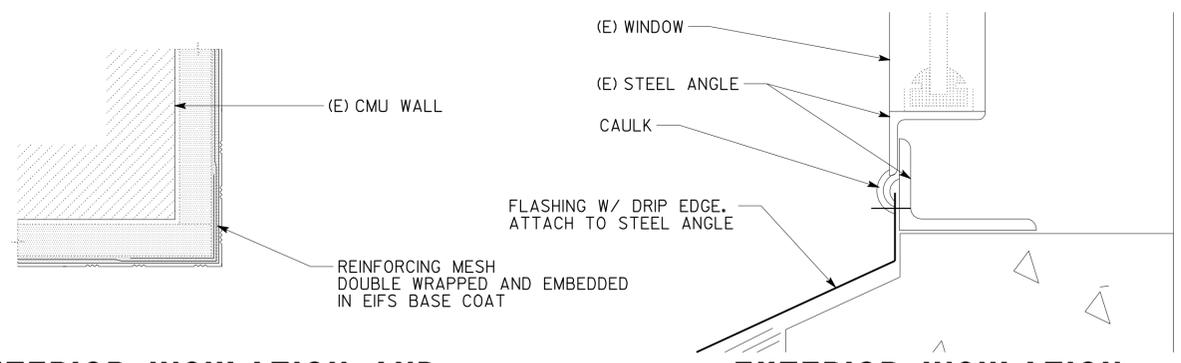
**7 CANOPY ELEVATION**  
SCALE 1/8" = 1'-0"

a6_4.dgn DS OSD Imperial Rev. 11/98 04-JAN-2010 07:16	DESIGN	BY LANI RHOADES	CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO.	5505	SHOP 29 FACILITY REMODEL CANOPY PLAN, ELEVATIONS, AND DETAILS	SHEET	A6-4		
	DETAILS	BY LANI RHOADES	CHECKED			POST MILE			REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET	OF
	QUANTITIES	BY	CHECKED								X	X

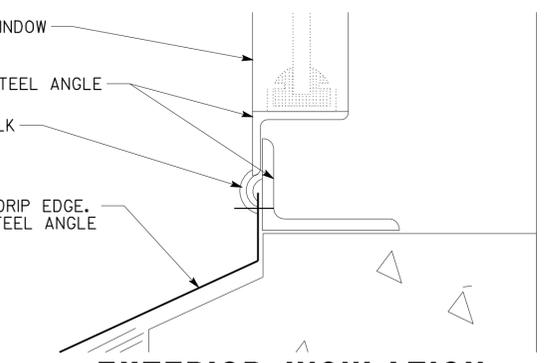
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3  
 CU 09 I23 EA 310601  
 DISREGARD PRINTS BEARING EARLIER REVISION DATES

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		46	102
 LICENSED ARCHITECT			08/29/08	DATE	
					
11-17-08					
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.					

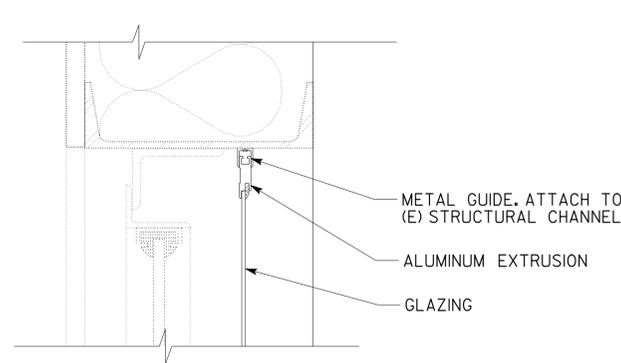
ACCESSIBILITY DESIGN APPROVAL STAMP DOT / DES / OTA <b>09-310601</b> DISTRICT - EA	CALIFORNIA STATE FIRE MARSHAL APPROVED Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
Reviewed by:  YA WANG Date: 08/26/08	Reviewed by:  PAM EMICK Approval date: 11/12/08



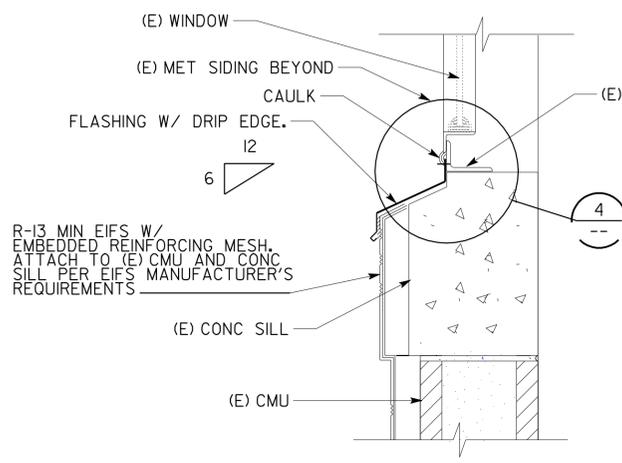
**1** EXTERIOR INSULATION AND FINISH SYSTEM AT CORNER  
NOT TO SCALE



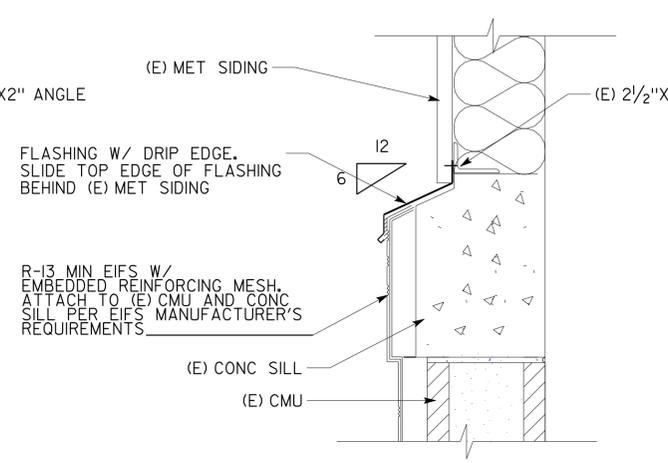
**4** EXTERIOR INSULATION AND FINISH SYSTEM  
SCALE 6" = 1'-0"



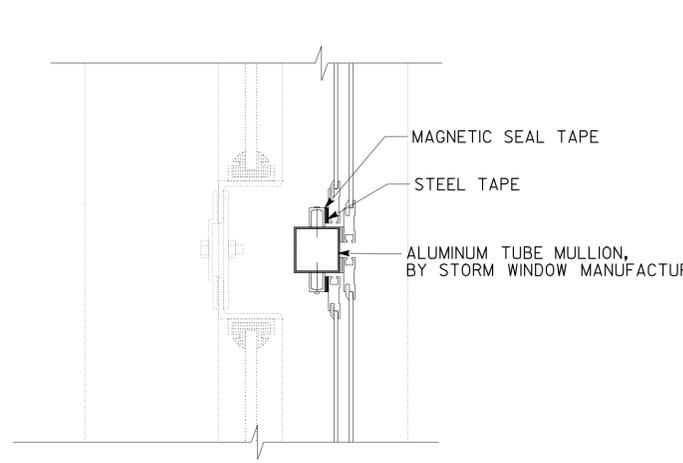
**7** STORM WINDOW HEAD  
SCALE 3" = 1'-0"



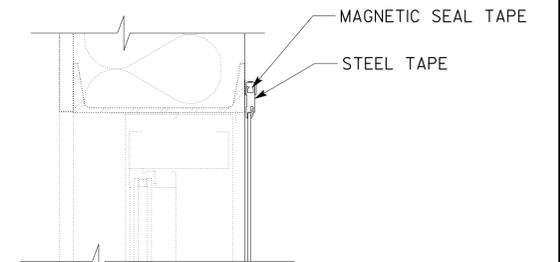
**2** EXTERIOR INSULATION FINISHING SYSTEM  
SCALE 1-1/2" = 1'-0"



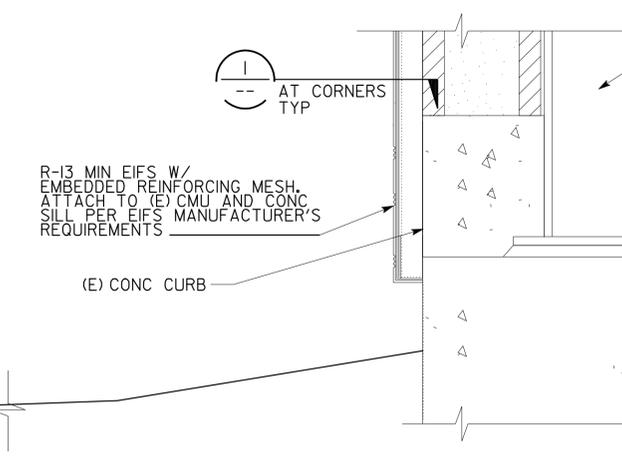
**5** EXTERIOR INSULATION FINISHING SYSTEM  
SCALE 1-1/2" = 1'-0"



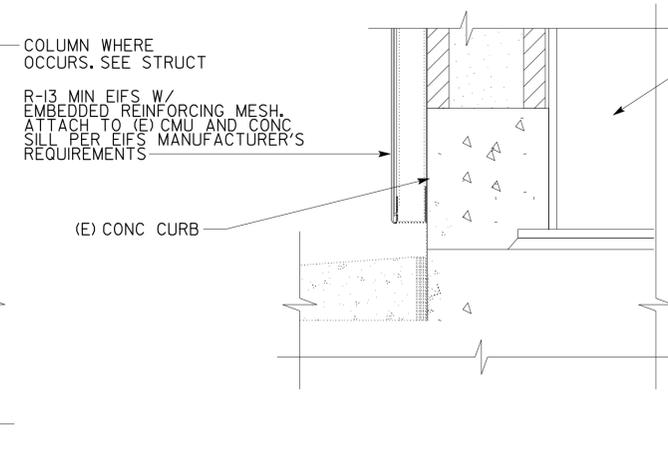
**8** STORM WINDOW JAMB  
SCALE 3" = 1'-0"



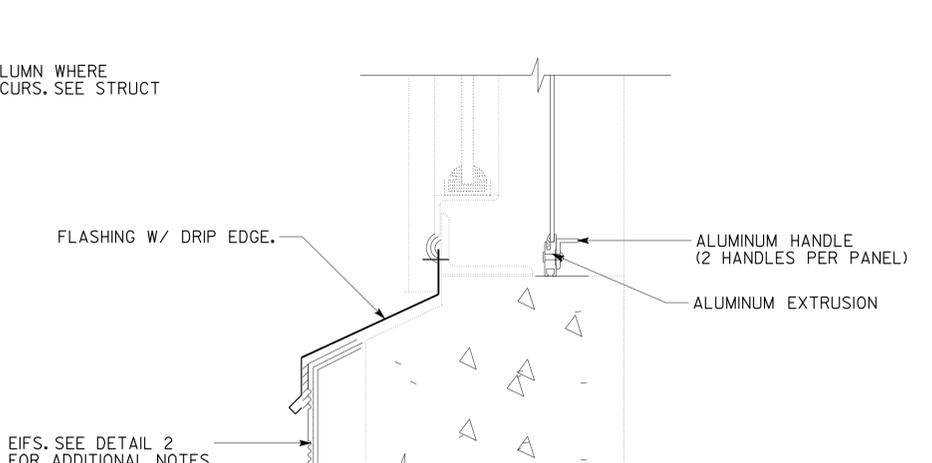
**10** STORM WINDOW HEAD (JAMB SIM)  
SCALE 3" = 1'-0"



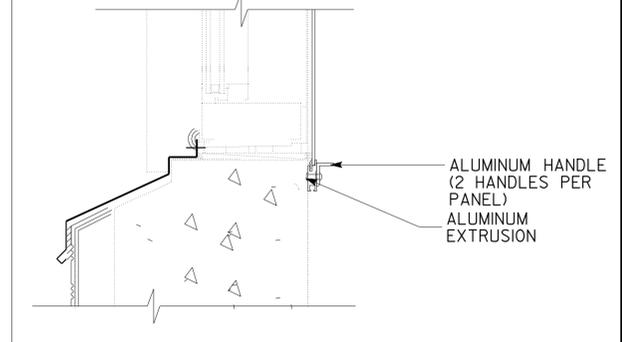
**3** EXTERIOR INSULATION FINISHING SYSTEM  
SCALE 1-1/2" = 1'-0"



**6** EXTERIOR INSULATION FINISHING SYSTEM  
SCALE 1-1/2" = 1'-0"



**9** STORM WINDOW SILL  
SCALE 3" = 1'-0"



**11** STORM WINDOW SILL  
SCALE 3" = 1'-0"

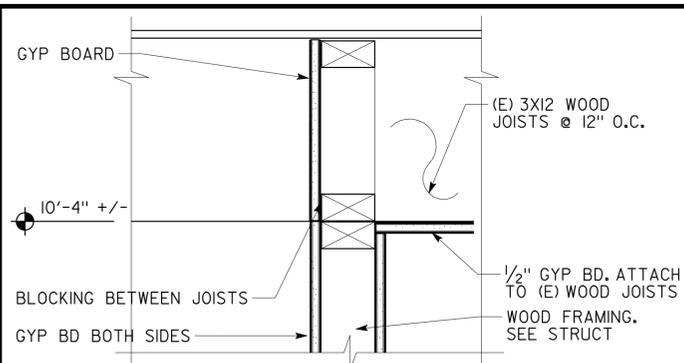
a6_5.dgn DS OSD Imperial Rev. 11/98 04-JAN-2010 07:16	DESIGN	BY LANI RHOADES	CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO.	5505	<b>SHOP 29 FACILITY REMODEL</b> MISCELLANEOUS DETAILS	SHEET	A6-5	
	DETAILS	BY LANI RHOADES	CHECKED			POST MILE			REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET
QUANTITIES	BY	CHECKED				CU 09 123 EA 310601	DISREGARD PRINTS BEARING EARLIER REVISION DATES		- 01 XX-XX-XX		X

04-JAN-2010 07:16

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		47	102

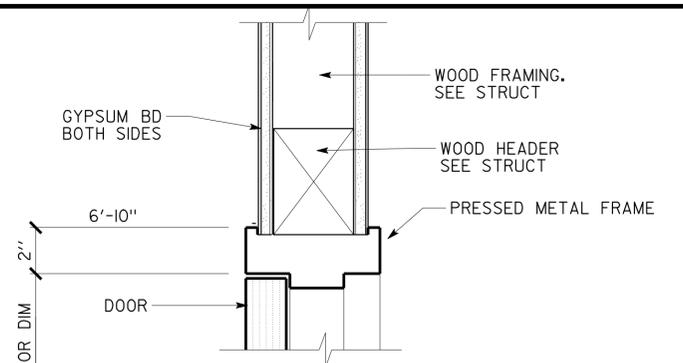
11-17-08  
 PLANS APPROVAL DATE  
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

Lani Rhoades  
 LICENSED ARCHITECT  
 No. C-26695  
 Exp. 10/31/09  
 STATE OF CALIFORNIA



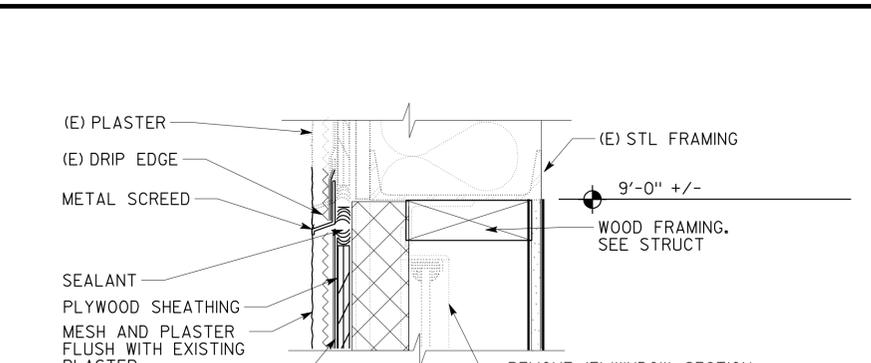
**1 WALL PERPENDICULAR TO JOISTS**

SCALE 2" = 1'-0"



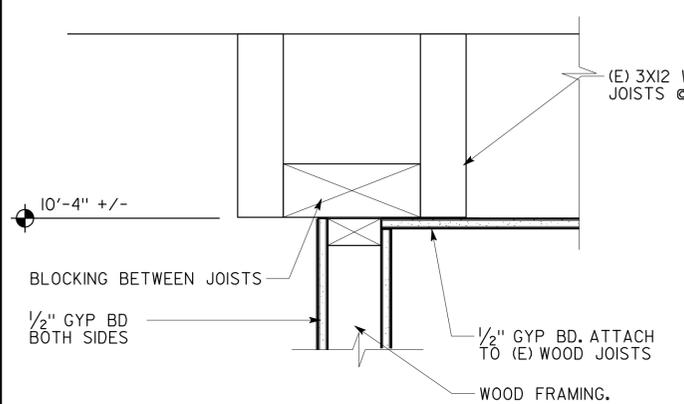
**4 DOOR HEAD**

SCALE 3" = 1'-0"



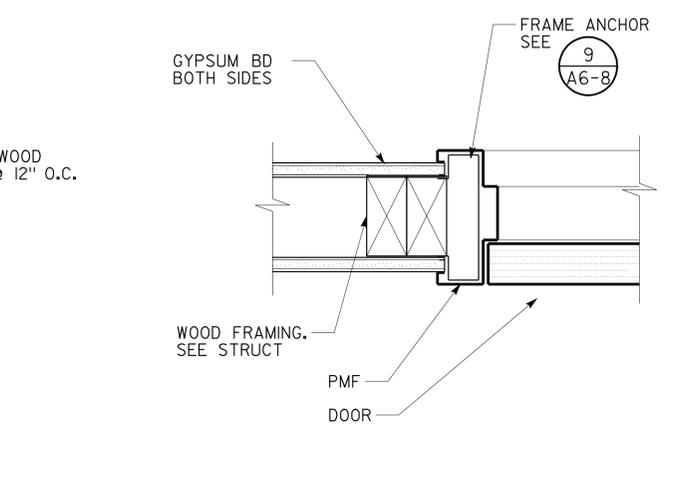
**7 INFILL AT HEAD OF (E) OPENING**

SCALE 3" = 1'-0"



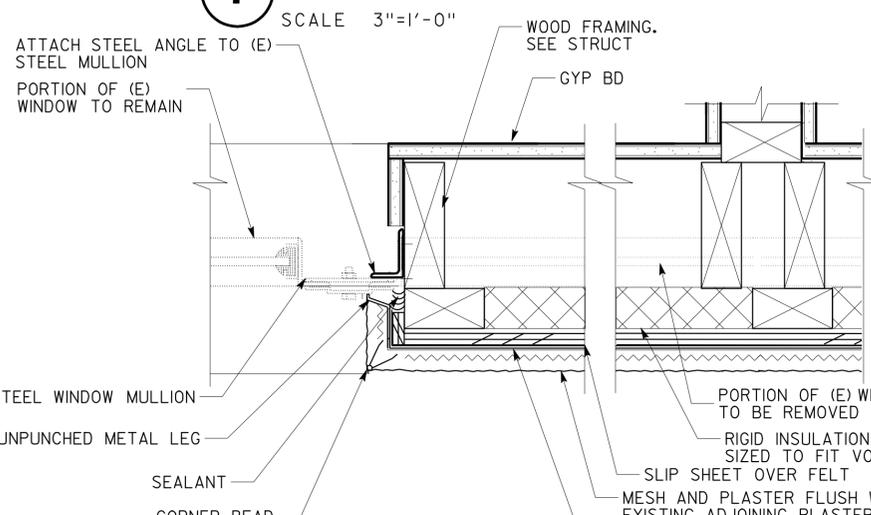
**2 WALL PARALLEL TO JOISTS**

SCALE 2" = 1'-0"



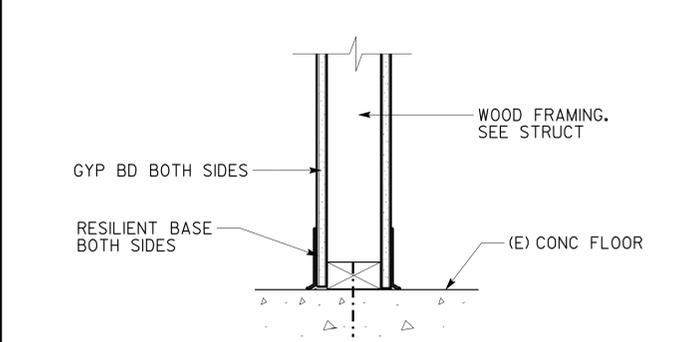
**5 DOOR JAMB**

SCALE 3" = 1'-0"



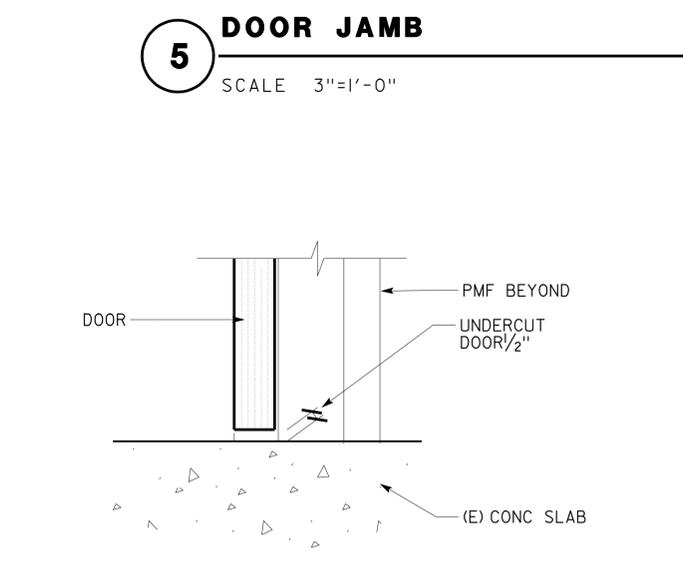
**8 INFILL AT (E) WINDOW MULLION**

SCALE 3" = 1'-0"



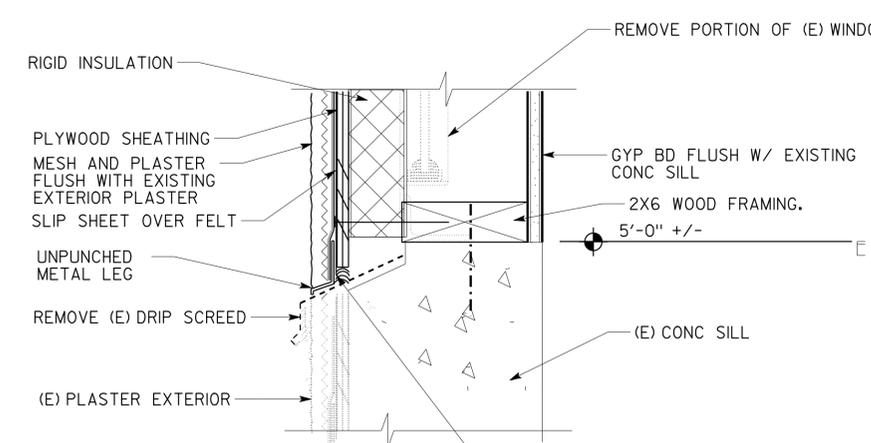
**3 WALL AT CONC FLOOR**

SCALE 2" = 1'-0"



**6 DOOR AT CONC FLOOR**

SCALE 3" = 1'-0"

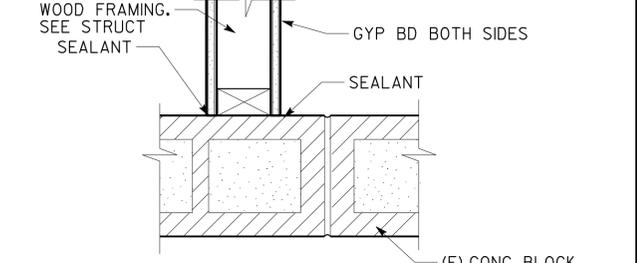


**9 INFILL AT (E) WINDOW SILL**

SCALE 3" = 1'-0"

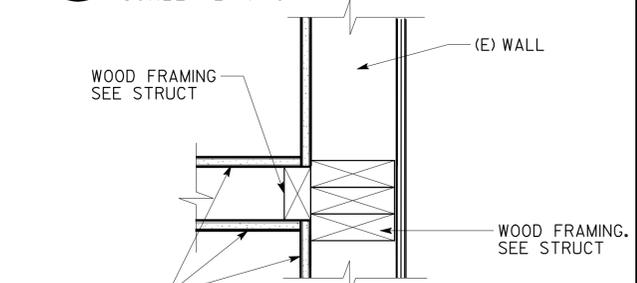
ACCESSIBILITY DESIGN APPROVAL STAMP  
 DOT / DES / OTA  
**09-310601**  
 DISTRICT - EA  
 Reviewed by: YA WANG  
 Date: 08/26/08

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  
 Approval date: 11/12/08



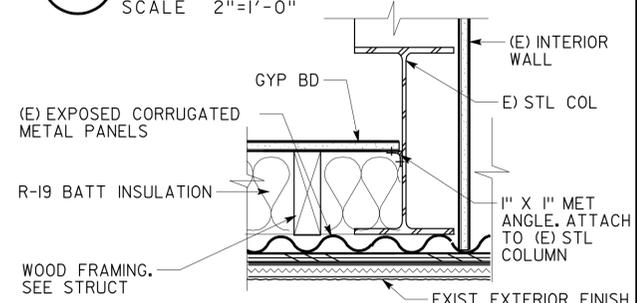
**10 WALL AT INFILL**

SCALE 2" = 1'-0"



**11 WALL AT (E) CMU**

SCALE 2" = 1'-0"



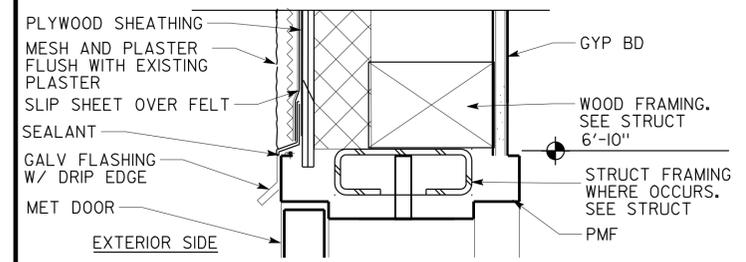
**12 WALL AT (E) METAL PANELS**

SCALE 2" = 1'-0"

a6_6.dgn DS OSD Imperial Rev. 11/98 04-JAN-2010 07:17	DESIGN	BY LANI RHOADES	CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 5505	SHOP 29 FACILITY REMODEL MISCELLANEOUS DETAILS	SHEET
	DETAILS	BY LANI RHOADES	CHECKED		CU 09 123 EA 310601	POST MILE		REVISION DATES (PRELIMINARY STAGE ONLY)
QUANTITIES	BY	CHECKED	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3	DISREGARD PRINTS BEARING EARLIER REVISION DATES	- 01 XX XX XX	X X

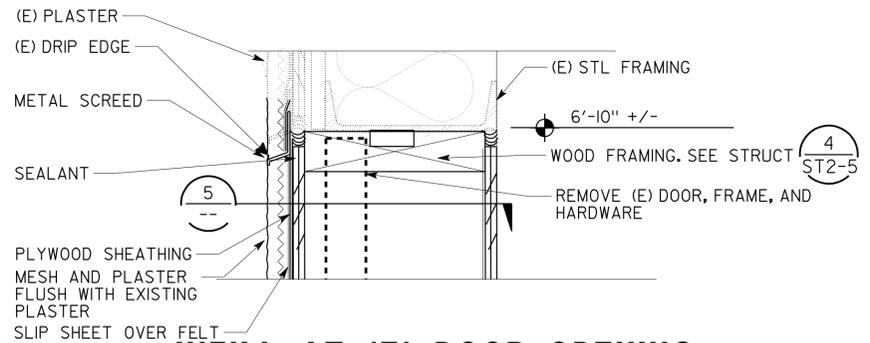
04-JAN-2010 07:17

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		48	102
 LICENSED ARCHITECT			08/29/08		
11-17-08			PLANS APPROVAL DATE		
<i>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.</i>					



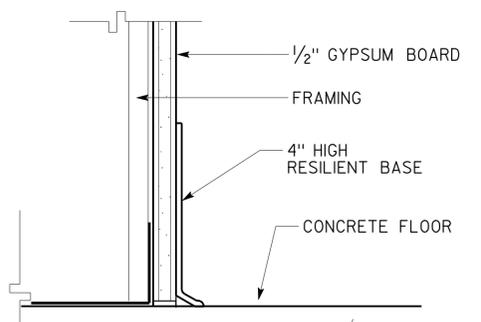
**1 DOOR HEAD AT INFILL WALL**

SCALE 3" = 1'-0"



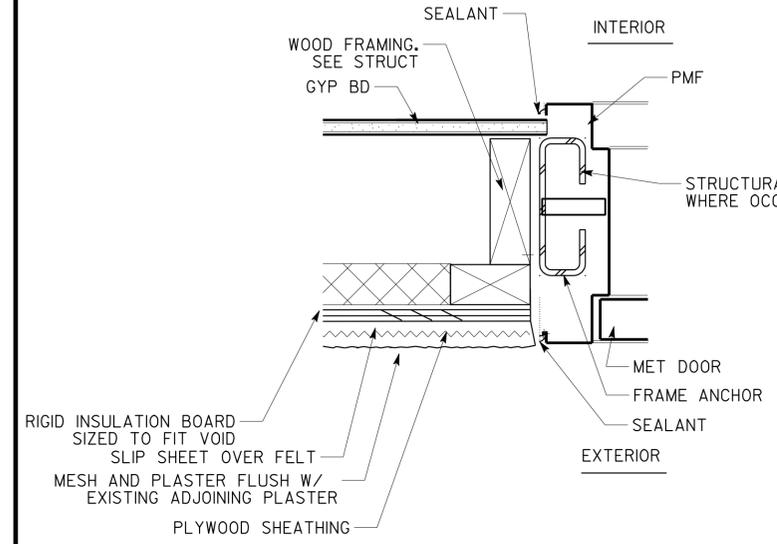
**4 INFILL AT (E) DOOR OPENING (HEAD)**

SCALE 3" = 1'-0"



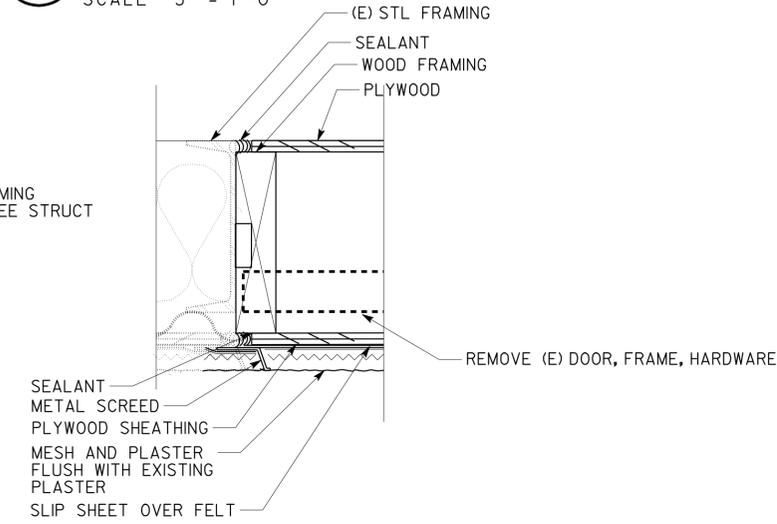
**7 RESILIENT BASE**

SCALE 1: X



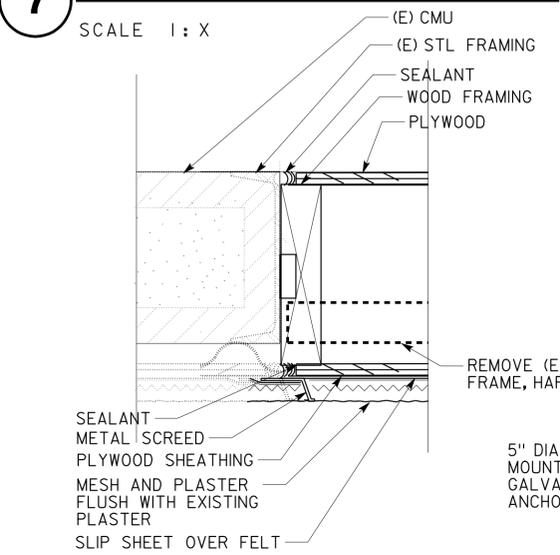
**2 DOOR JAMB AT INFILL WALL**

SCALE 3" = 1'-0"



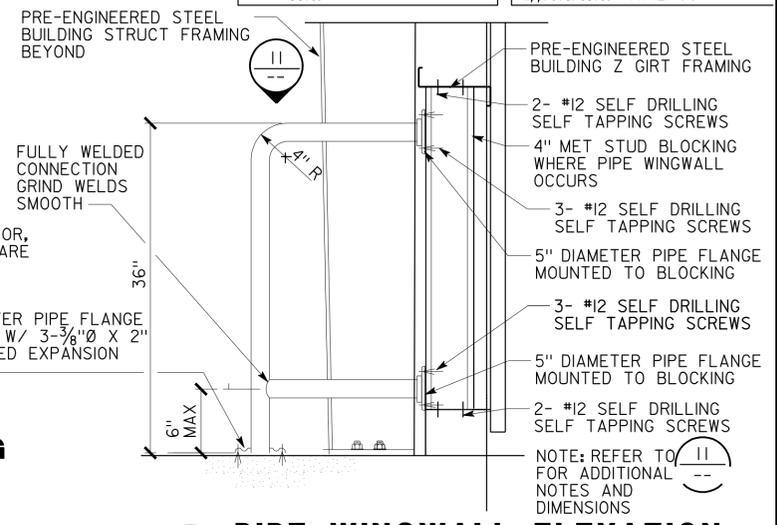
**5 INFILL AT (E) DOOR OPENING (JAMB)**

SCALE 3" = 1'-0"



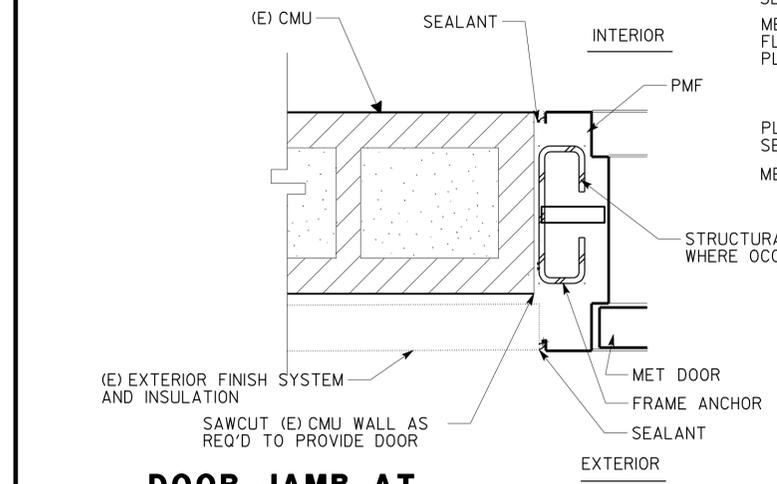
**8 INFILL AT (E) DOOR OPENING (JAMB)**

SCALE 3" = 1'-0"



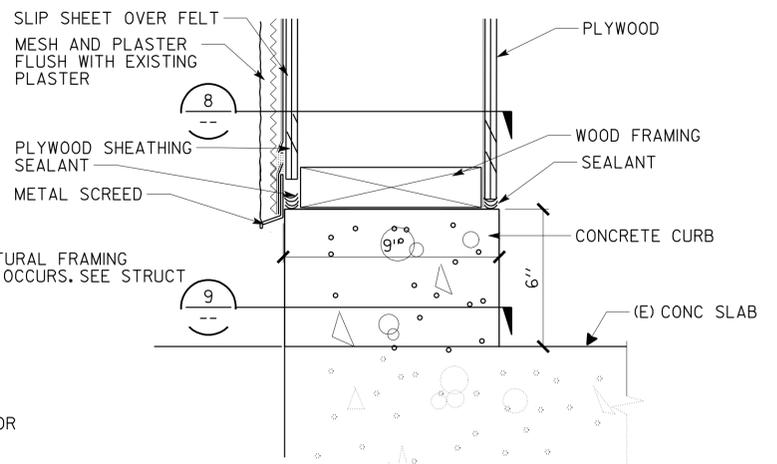
**10 PIPE WINGWALL ELEVATION**

NOT TO SCALE



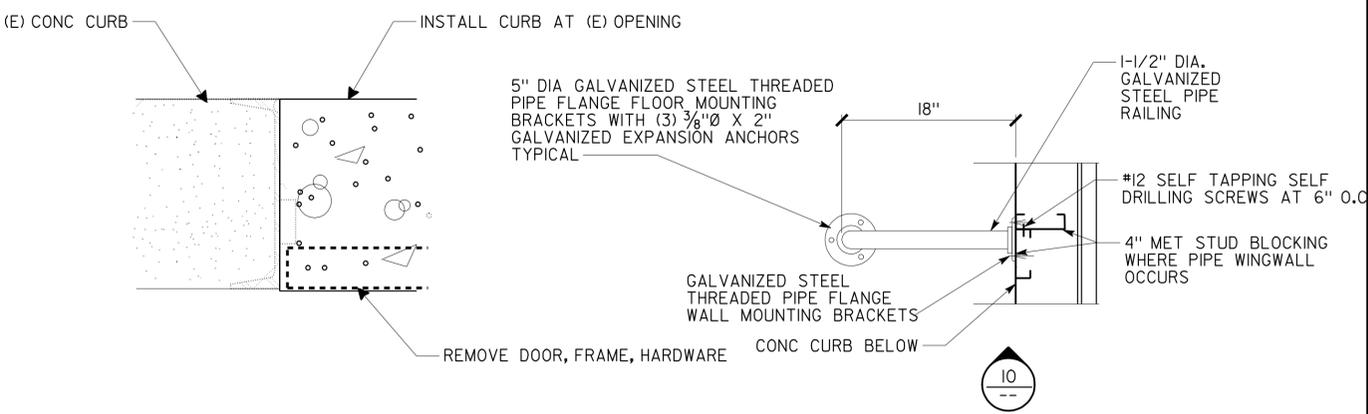
**3 DOOR JAMB AT (E) CMU WALL**

SCALE 3" = 1'-0"



**6 INFILL AT (E) DOOR OPENING (THRESHOLD)**

SCALE 3" = 1'-0"



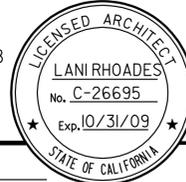
**9 INFILL AT (E) DOOR OPENING (THRESHOLD)**

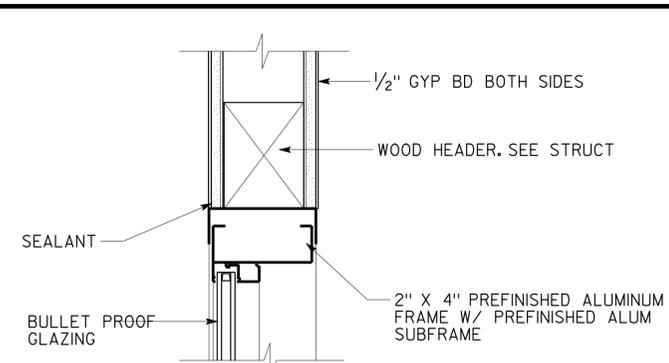
SCALE 3" = 1'-0"

**11 PIPE WINGWALL**

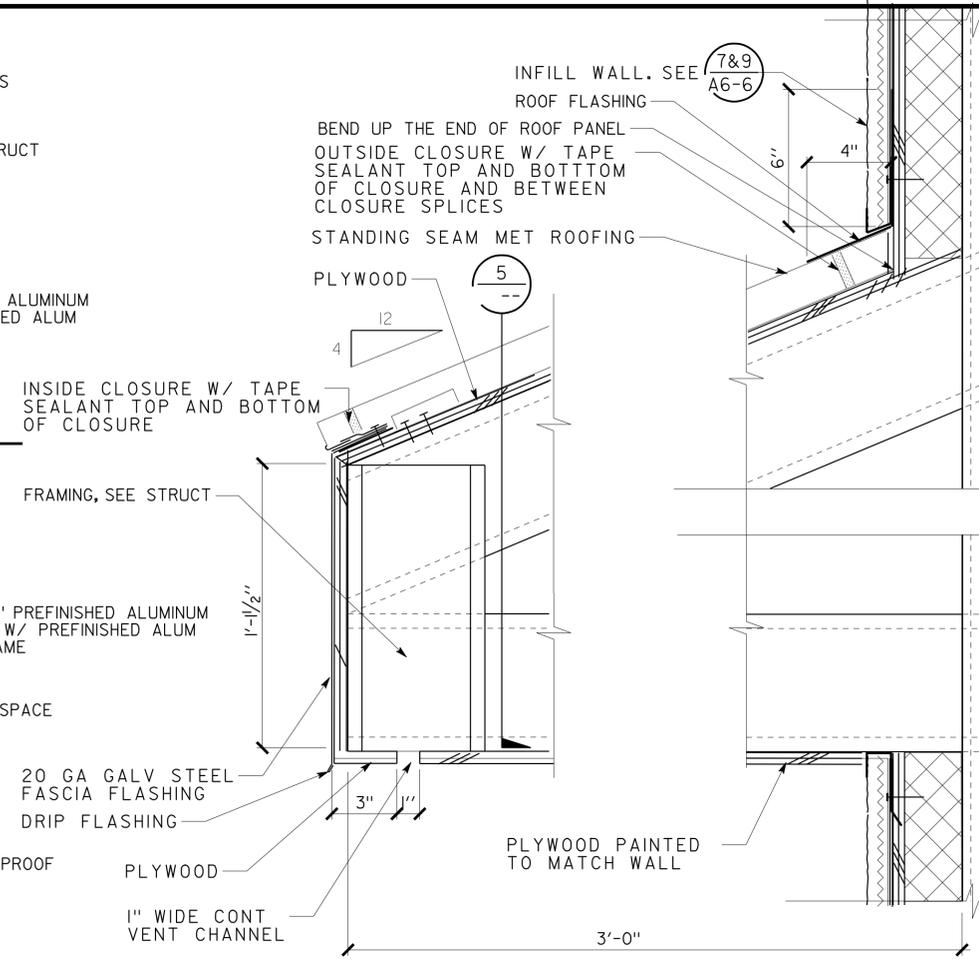
NOT TO SCALE

a6_7.dgn DS OSD Imperial Rev. 11/98 04-JAN-2010 07:17	DESIGN	BY LANI RHOADES	CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 5505	SHOP 29 FACILITY REMODEL MISCELLANEOUS DETAILS	SHEET
	DETAILS	BY LANI RHOADES	CHECKED		CU 09 I23	POST MILE		A6-7
	QUANTITIES	BY	CHECKED		EA 310601			
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
								X X

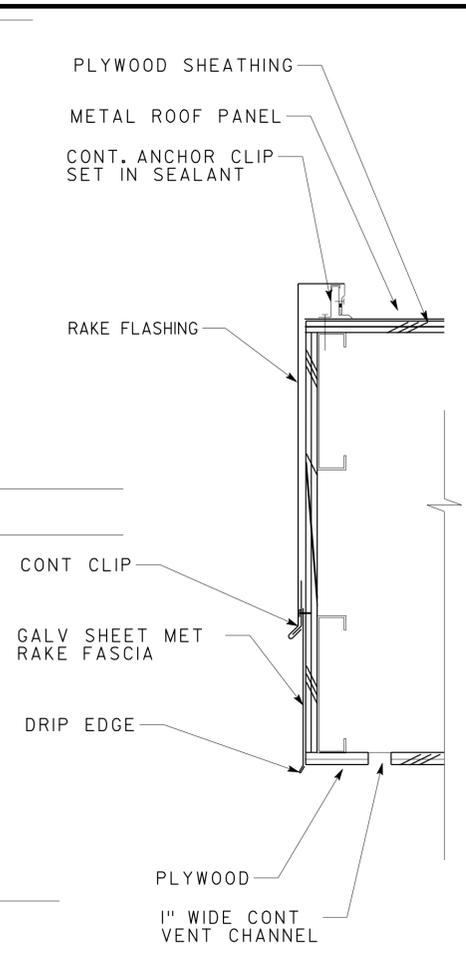
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		49	102
			08/29/08		
11-17-08 PLANS APPROVAL DATE			<i>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</i>		



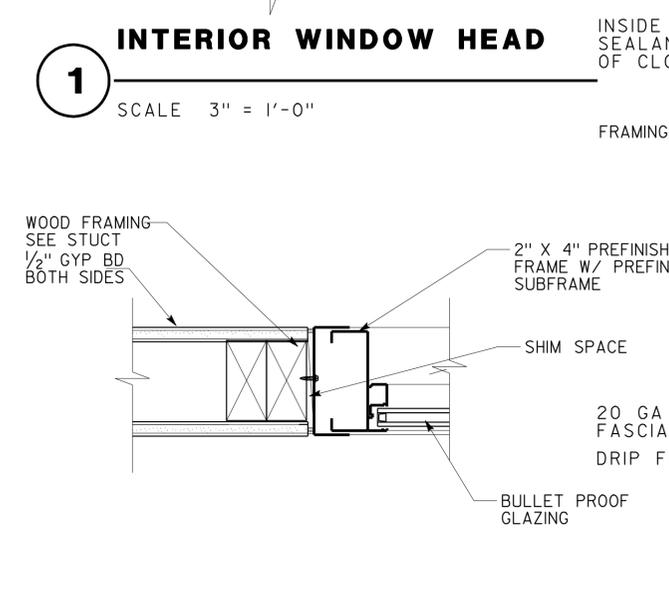
**1 INTERIOR WINDOW HEAD**  
SCALE 3" = 1'-0"



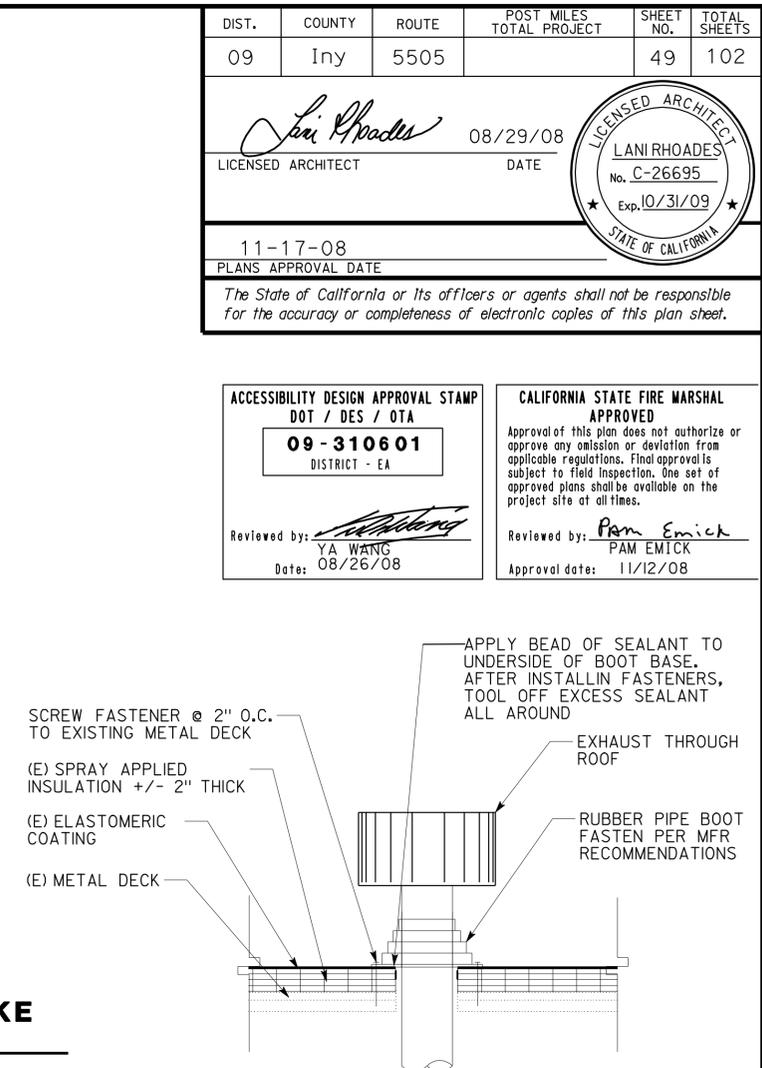
**4 CANOPY SECTION**  
SCALE 3" = 1'-0"



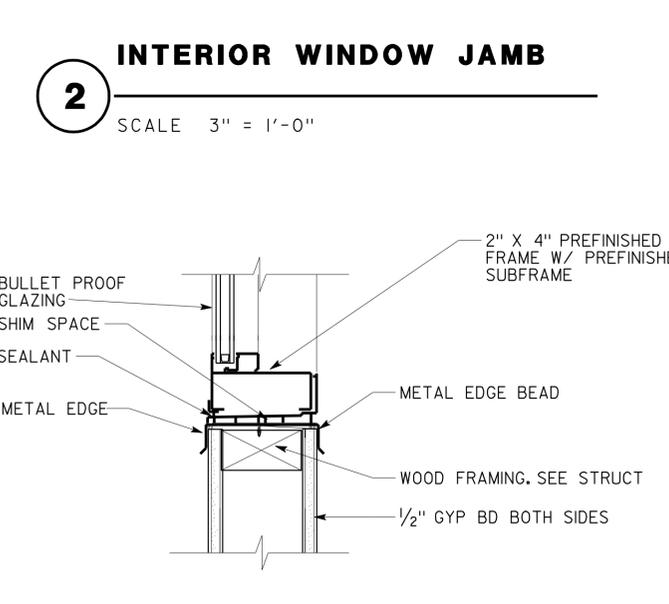
**5 CANOPY AT RAKE**  
SCALE 3" = 1'-0"



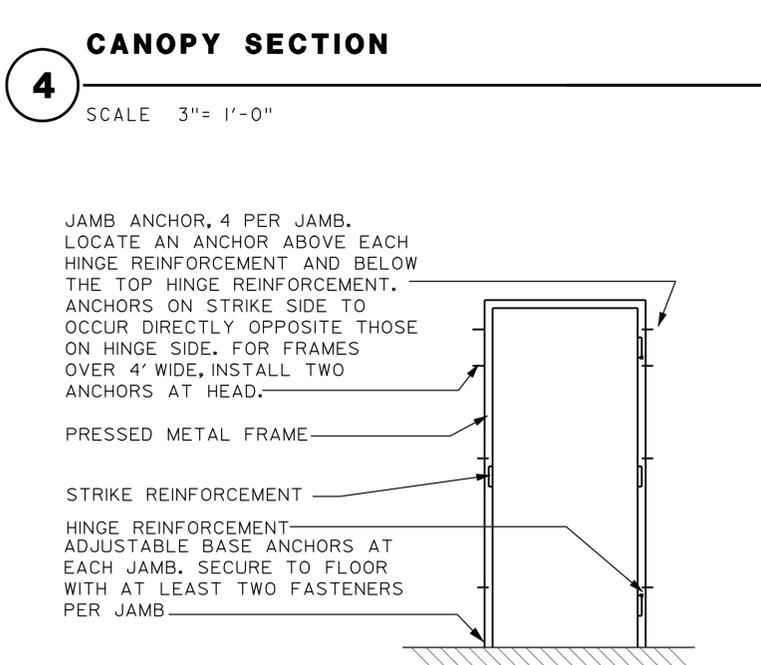
**2 INTERIOR WINDOW JAMB**  
SCALE 3" = 1'-0"



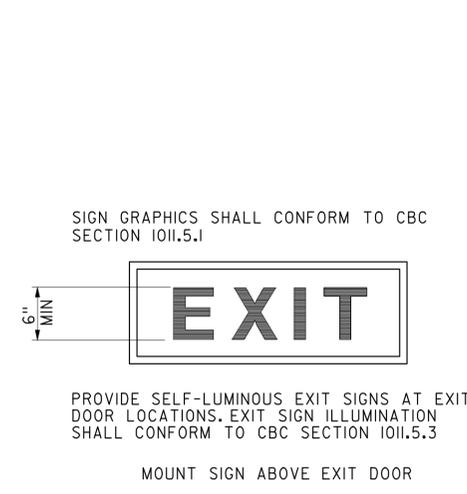
**7 EXHAUST VENT THRU ROOF**  
NO SCALE



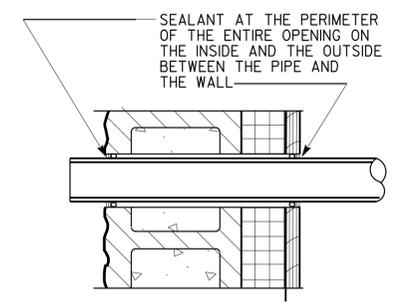
**3 INTERIOR WINDOW SILL**  
SCALE 3" = 1'-0"



**9 FRAME ANCHORAGE**  
NOT TO SCALE



**6 SELF-LUMINOUS EXIT SIGN**  
NOT TO SCALE



**8 VENT THRU WALL**  
NO SCALE

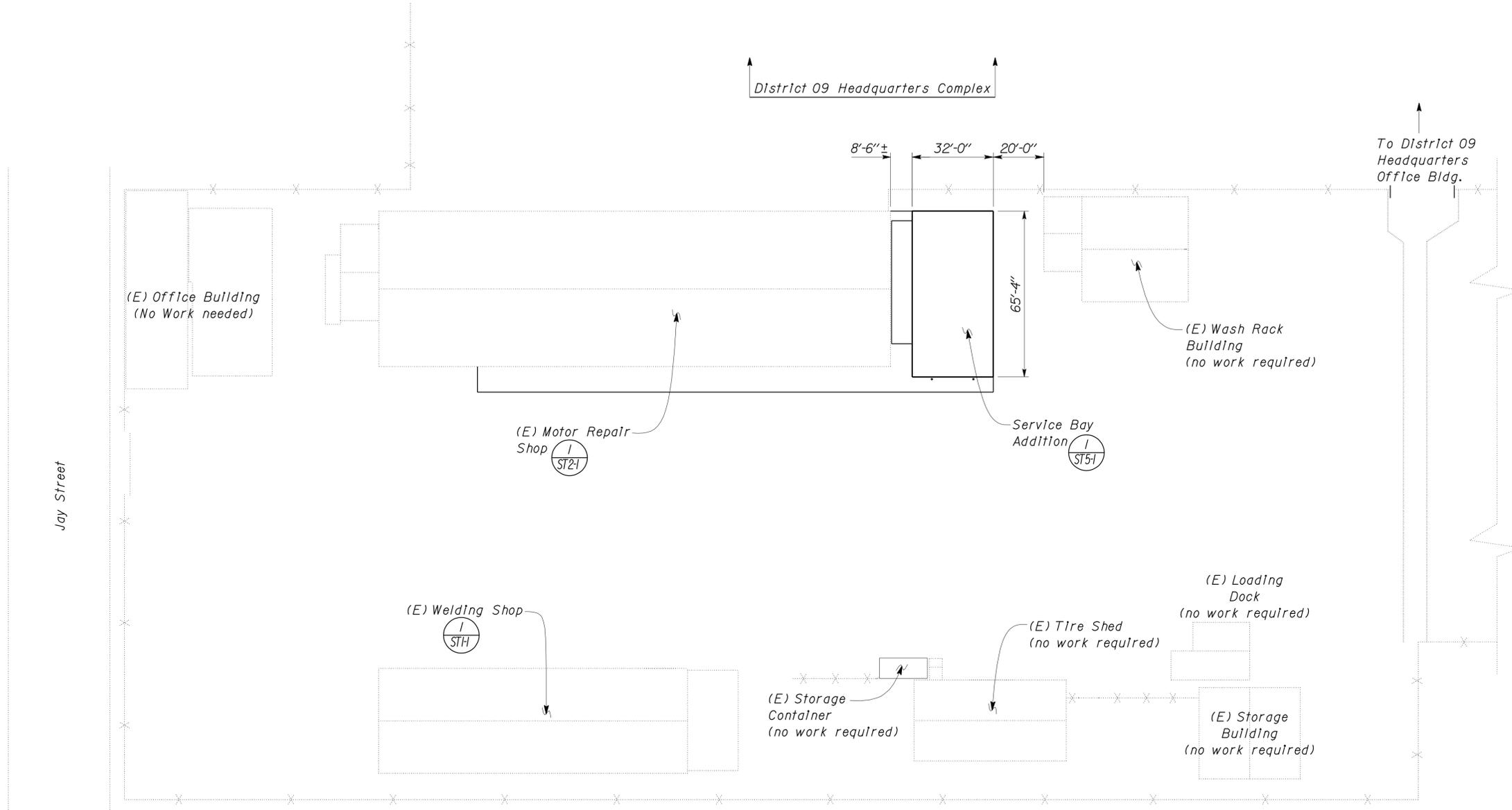
a6_8.dgn DS OSD Imperial Rev. 11/98 04-JAN-2010 07:39	DESIGN	BY LANI RHOADES	CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO.	<b>SHOP 29 FACILITY REMODEL</b> MISCELLANEOUS DETAILS	SHEET
	DETAILS	BY LANI RHOADES	CHECKED		ARCHITECTURAL AND STRUCTURAL DESIGN	5505		<b>A6-8</b>
QUANTITIES	BY	CHECKED	CU 09 123 EA 310601		POST MILE	DISREGARD PRINTS BEARING EARLIER REVISION DATES		
			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3				X X

04-JAN-2010 07:39 a6\_8.dgn

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		50	102

 REGISTERED CIVIL ENGINEER DATE 8-29-08	
PLANS APPROVAL DATE 11-17-08	
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 DESIGN NOTES**
- Design: The building work on this project has been designed to conform to the 2007 California Building Code.
  - Loads : Snow Loads : 40 PSF  
 Wind: 85 MPH, Exposure C,  $I=1.0$   $G_{Cp} = \pm 0.18$   
 Seismic:  $S_S = 1.777g, S_I = 0.654g$ , Site Class D  
 $S_{DS} = 1.180g, S_{D1} = 0.654g$ , Seismic Design Category II  
 $I = 1.0$ , Occupancy Category II
  - Structural Steel :  
 Hollow structural section:  $f_y = 46,000$  PSI  
 Plates:  $f_y = 36,000$  PSI  
 Channels:  $f_y = 36,000$  PSI  
 Angles:  $f_y = 36,000$  PSI
  - Reinforced Concrete :  $f'_c = 3,000$  PSI  
 $f_y = 60,000$  PSI
  - Foundation :  
 Allowable Soil Pressure (Dead Load + Live Load): 1,000 psf (assumed)
  - Mechanical Expansion Anchors shall be  $\frac{5}{8}$ " dia and have 4" minimum embedment, 3'-0" max spacing and placed 6" maximum spacing from ends, two minimum per connection, unless otherwise shown.

DOES SD Imperial Rev. 9/02	DESIGN BY <i>Justin Uyehara</i> DETAILS BY <i>Justin Uyehara</i> QUANTITIES BY <i>Justin Uyehara</i>	CHECKED BY <i>Joseph Camillo</i> CHECKED BY <i>Joseph Camillo</i> CHECKED BY <i>Joseph Camillo</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 5505 POST MILE	SHOP 29 FACILITY REMODEL STRUCTURAL PLAN	SHEET ST-0 OF
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	CU 09123 EA 310601	DISREGARD PRINTS BEARING EARLIER REVISION DATES	10-03-07	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		51	102


 8-29-08  
 REGISTERED CIVIL ENGINEER DATE



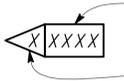
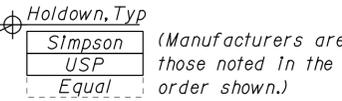
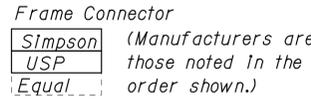
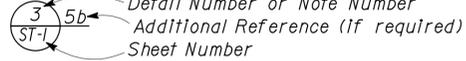
11-17-08  
 PLANS APPROVAL DATE

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.

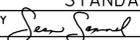
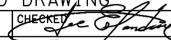
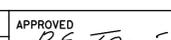
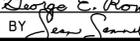
**ABBREVIATIONS**

AAD	Adhesive Anchorage Device	HD	Holdown
AB	Anchor Bolt	Hex	Hexagon
AC	Asphalt Concrete	Horiz	Horizontal
Alt	Alternate	HSB	High Strength Bolt
APA	American Plywood Association	HSS	Hollow Structural Section
APC	Alternative Pipe Culvert	Jt	Joint
Bldg	Building	LOL	Layout Line
Blkg	Blocking	LVL	Laminated Veneer Lumber
BN	Boundary Nailing	m	Meter
Btm	Bottom	Max	Maximum
CB	Carriage Bolt	MEA	Mechanical Expansion Anchor
CIDH	Cast in Drilled Hole	Mech	Mechanical
CJ	Control Joint	Mfr	Manufacturer
Clr	Clear	mm	Millimeter
CMU	Concrete Masonry Unit	Min	Minimum
Conc	Concrete	MIW	Malleable Iron Washer
Const	Construction	OC	On Center
Cont	Continuous	OG	Original Grade
CP	Complete Penetration Weld	OH	Opposite Hand
Dbl	Double	Opt	Optional
DF	Douglas Fir	P	Pitch
Dia	Diameter	PDF	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	Reinf	Reinforced, Reinforcing
Elec	Electrical	Req'd	Required
Embed	Embedment	SDSTS	Self Drill, Self Tap Screw
EN	Edge Nail	Sim	Similar
Eq	Equal	SPS	Structural Plywood Sheathing
Exp	Expansion	Sq	Square
FDGM	Free Draining Granular Material	Stagg	Staggered
FG	Finish Grade	Std	Standard
FL	Flow Line	SW	Stud Weld
Fir	Floor	Sym	Symmetrical
FN	Face (Field) Nail	T&G	Tongue-and-Groove
FOC	Face of Concrete	TN	Toe Nail
FOM	Face of Masonry	TS	Tube Steel
FOS	Face of Stud	Typ	Typical
Ftg	Footing	UON	Unless Otherwise Noted
Ga	Gage	Vert	Vertical
Galv	Galvanized		
GLM	Glue Laminated Member		
Gyp Bd	Gypsum Board		

**SYMBOLS**

	Blocking in Section or Elevation		CMU Wall on Plan Views
	Continuous Member in Section		Dropped Slab on Plan Views
	End of Member		Reinforced Concrete
	Bearing Wall		Sand
	Shear Wall		Structural Backfill
	Length Reference		Structural Excavation
	Glue Laminated Member Section		Original Ground
	North Arrow		Limits of Structural Backfill (shown on plan view)
	Partial Section Cut		Free Draining Granular Material
	Full Section Cut		Bottom of Footing
	Revision Callout		Elevation or Working Point
	Grid Line Indicator		Existing Features
	Center Line		Holdown, Typ (Manufacturers are those noted in the order shown.)
	Station Line		Frame Connector (Manufacturers are those noted in the order shown.)
	Steel Plate		Detail Number or Note Number Additional Reference (if required) Sheet Number
	Diameter		
	Square		

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

FILE NO. XS-25-0	DESIGN BY 	CHECKED BY 	APPROVED BY 
DRAWING DATE 1-04	DETAILS BY 	CHECKED BY 	DESIGN SUPERVISOR

STATE OF CALIFORNIA	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 5505	SHEET ST-1
DEPARTMENT OF TRANSPORTATION	ARCHITECTURAL AND STRUCTURAL DESIGN	POST MILE	OF

CU 09123	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
EA 310601	01-17-08		

A

FRAMING NOTES

- 1. 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.
2. Bearing, shear and exterior walls shall be sheathed with 5/8" structural plywood sheathing.
3. All roofs shall be sheathed with 5/8" structural plywood sheathing.
4. 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.
5. 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.
6. 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.
7. Wood grades (unless otherwise noted):
A. For horizontal members:
Joists & Rafters Grade #2
Beams & Stringers Grade #1
Ledgers Grade #1
B. For vertical members:
2"x4" Studs Construction Grade
2"x6" & larger studs Grade #2
Posts & Timbers Grade #1
C. Glue laminated beams:
Simple spans 24F-V4 DF/DF
Cantilevers & Continuous 24F-V8 DF/DF
8. Glue laminated members shall be engineered, stress rated and factory laminated with adhesive for wet use.
9. Exposed members shall be "architectural appearance" grade and non-exposed members shall be "industrial appearance" grade.
10. All wood in direct contact with concrete or masonry shall be pressure treated Douglas Fir-Larch.
11. Joists framed into the side of wood girders shall be supported by joist hangers.
12. 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.
13. Joists and roof rafters 1'-0" or deeper shall have full depth 2"x thick solid blocking at 8'-0" maximum spacing.
14. Provide 2"x blocking to secure fixtures shown on the project plans.
15. Joists under and parallel to bearing walls shall be doubled.
16. 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.
17. 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).
18. 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)
19. 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.
20. Equivalent metal bridging or ties may be submitted to the Engineer for approval.

B

MINIMUM NAILING SCHEDULE

- 1. All structural nailing shall be common wire. Alternate fasteners may be substituted as approved by the Engineer.
2. 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.
3. 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.
4. Joists or Rafters:
a. Bearing (sill, girder, top plate) Toe Nail 3-8d
b. Laps (parallel members over walls or beams) Face Nail 4-16d
For each additional 3" member depth beyond 6" member add 2-16d
c. Rim joist to floor joist, End Nail 2-16d
For each additional 4" member depth beyond 8" member add 1-16d
d. Rim joist to top plate, Toe Nail 8d @ 6" OC
e. Double joists under bearing walls, staggered Face Nail. 16d @ 1'-0" OC
5. Studs:
a. Double studs, Face Nail 16d @ 2'-0" OC
b. Top plate to stud, End Nail 2-16d
c. Stud to sole plate, Toe Nail 3-16d or 4-8d
d. Sole plate to stud, End Nail 2-16d
e. Stud to continuous header, Toe Nail 3-16d or 4-8d
f. Built-up corner studs, Face Nail 16d @ 2'-0" OC
6. Plates:
a. Top plate doubled, Face Nail 16d @ 1'-4" OC
b. Top plate intersection, Face Nail 2-16d
c. Sole plate to rim joist or blocking, Face Nail 16d @ 1'-4" OC
d. Sole plate to floor framing, Face Nail 16d @ 1'-4" OC
7. Blocking:
a. 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
b. To plates, Toe Nail 16d @ 1'-0" OC
8. 2" Subfloor to each joist or girder one blind and one Face Nail. 2-16d
9. Structural Plywood Nailing:
a. Spacing at subflooring, decking, roof and wall structural plywood sheathing to framing:
LOCATION 3/8" Plwd 7/16" - 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
b. 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.
c. Decking and Underlayment: Use deformed shank nail (see Sheet ST-1B for nail size and spacing)
d. Panel siding to framing: Use zinc coated nail (see Sheet ST-1B for nail size and spacing)
10. Finish Plywood Nailing (non-structural):
a. Finish plywood to framing where the thickness is 1/2" or less:
1) Finish nail at supported edges (edge nailing) 6d @ 6" OC
2) Finish nail at intermediate supports (field nailing) 6d @ 1'-0" OC
11. Gypsum Sheathing (Structural):
a. Wall structural gypsum board sheathing to framing where the thickness 5/8" or less:
1) 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

Table with 3 columns: LOCATION, 3/8" Plwd, 7/16" - 1" Plwd. Rows include: At supported edges (edge nailing) & over bearing (beams, girders, walls, etc.), At intermediate supports (field nailing), Where bearing is 4'-0" or greater (field nailing).

C

MECHANICAL FASTENER NOTES

- 1. 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.
2. Lag screws shall be turned into pre-drilled holes and not be driven.
3. All bolts and lag screws shall be tightened and retightened before closing in, or at completion of job.
4. All bolts and lag screws shall be provided with metal washers under heads and nuts which bear on wood.

Table titled 'MINIMUM WASHER FOR BOLTS & LAG SCREWS'. Columns: Size, Malleable Iron Washer, Steel Plate Washer. Rows: 1/2" Ø, 5/8" Ø, 3/4" Ø, 7/8" Ø, 1" Ø.

Place under Bolt Heads & Nuts bearing on Wood

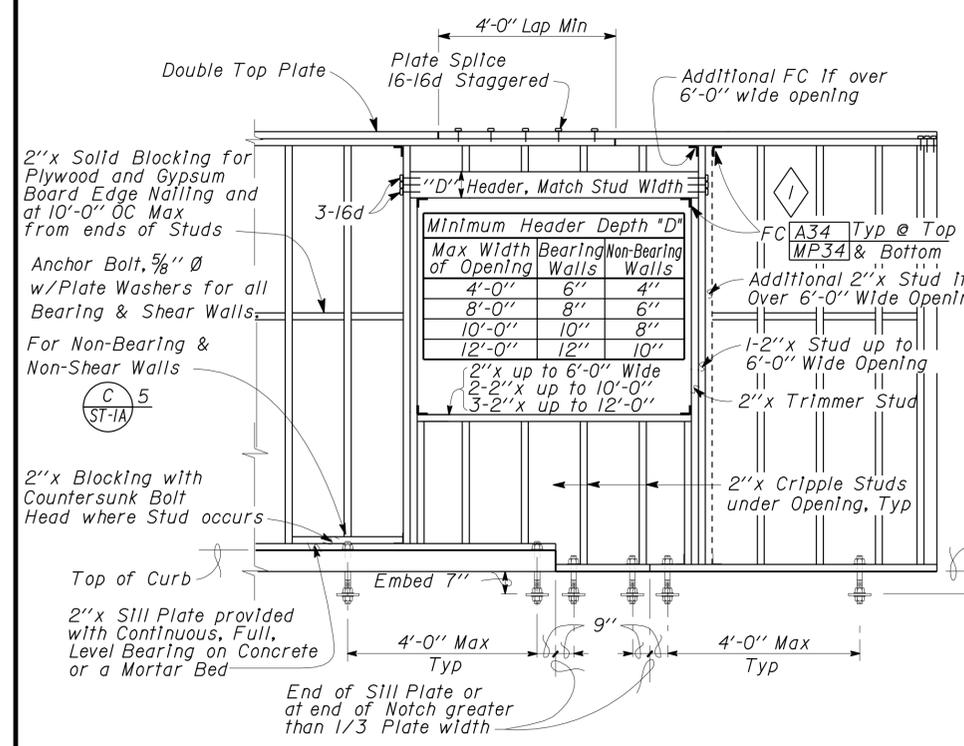
- 5. Fastener alternatives for non-bearing and non-shear walls: Two minimum per member and at 9" from ends.
a. 1/8" Ø Powder driven anchor with 1" penetration @ 2'-0" OC.
b. 1/4" Ø expansion anchorage device embedded 1 1/2" minimum at 2'-0" OC.
c. 1/2" Ø anchor bolt with 2 1/2" embedment @ 4'-0" OC.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

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

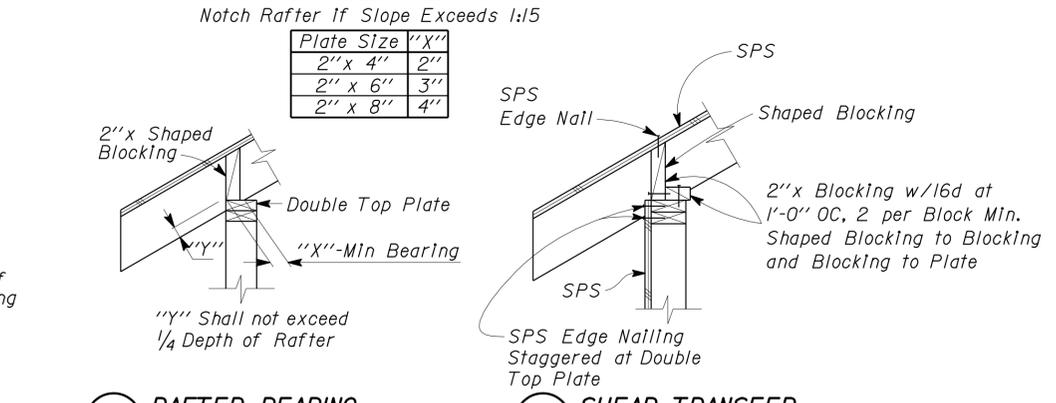
Project information block including: STANDARD DRAWING, FILE NO. XS-25-5, DESIGN BY Sean Samuel, CHECKED BY [Signature], APPROVED BY R.E. Travis, DESIGN SUPERVISOR, STATE OF CALIFORNIA, DIVISION OF ENGINEERING SERVICES, ARCHITECTURAL AND STRUCTURAL DESIGN, BRIDGE NO. 5505, POST MILE, SHOP 29 FACILITY REMODEL, WOOD FRAMING STANDARD - NOTES, SHEET ST-1A, ORIGINAL SCALE IN INCHES FOR REDUCED PLANS, CU 09123, EA 310601, DISREGARD PRINTS BEARING EARLIER REVISION DATES, REVISION DATES (PRELIMINARY STAGE ONLY), SHEET OF.

04-JAN-2010 07:18

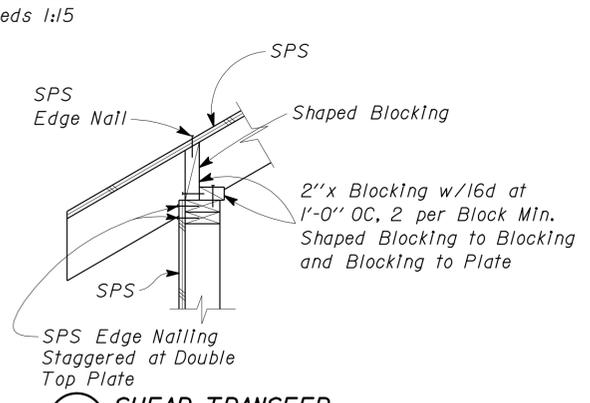
st\_01a.dgn



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

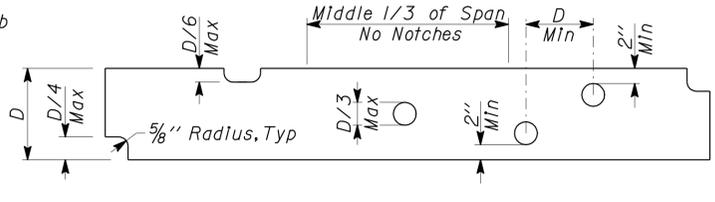


**5A RAFTER BEARING**

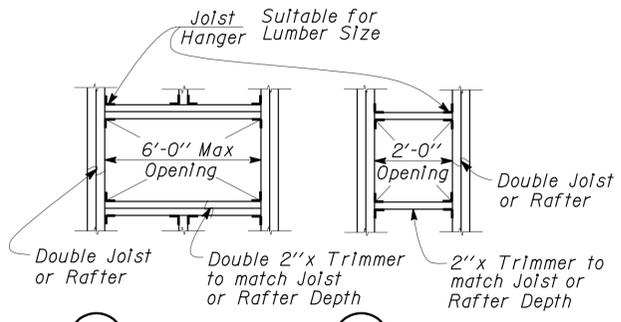


**5B SHEAR TRANSFER**

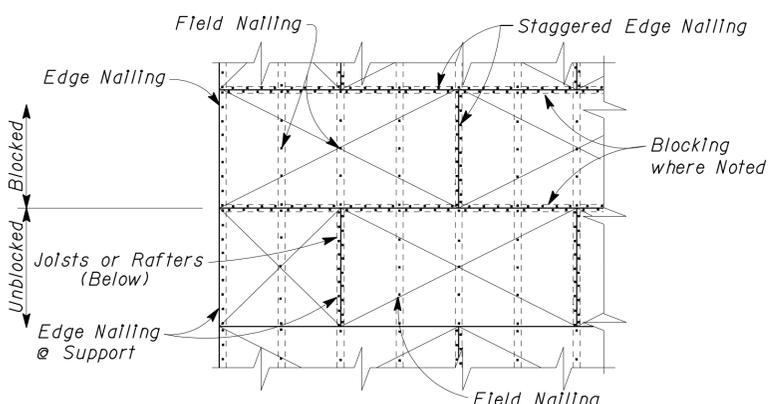
**5 EXTERIOR WALL TOP PLATE DETAIL**  
No Scale



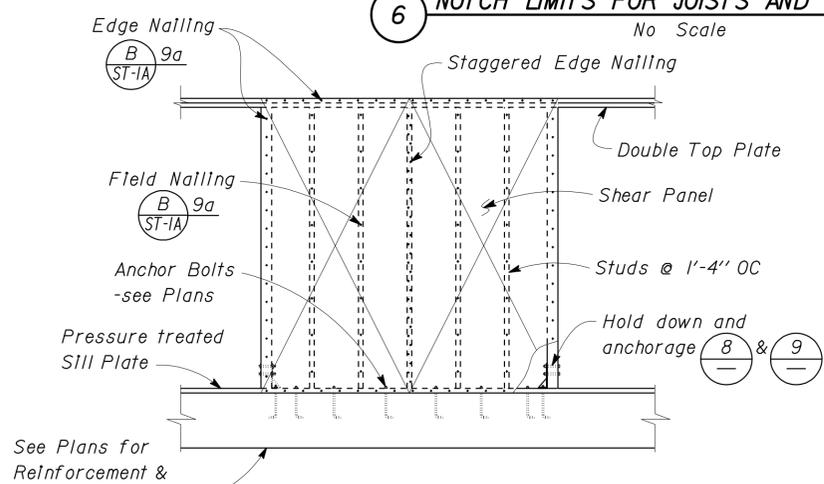
**6 NOTCH LIMITS FOR JOISTS AND HEADERS**  
No Scale



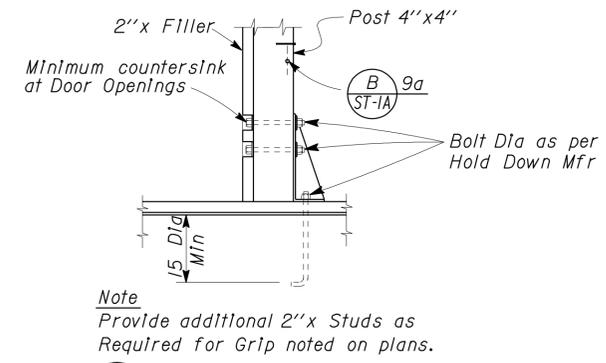
**7A 7B FRAMING AT OPENINGS**  
No Scale



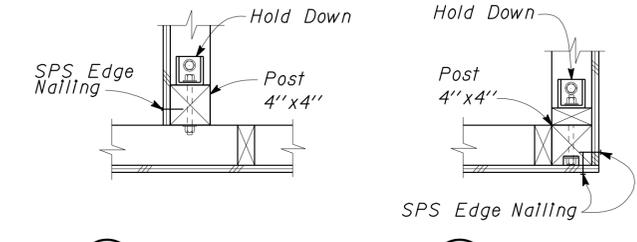
**2 STRUCTURAL PLYWOOD LAYOUT**  
No Scale



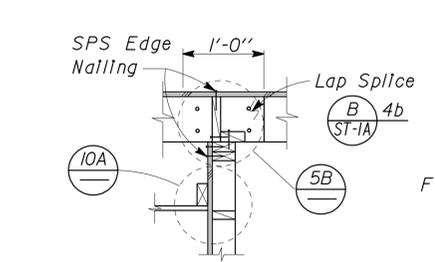
**3 SHEAR WALL ELEVATION**  
No Scale



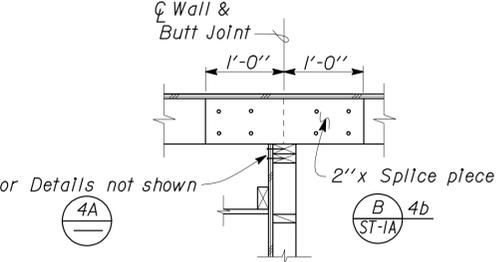
**8 INTERIOR HOLD DOWN**  
No Scale



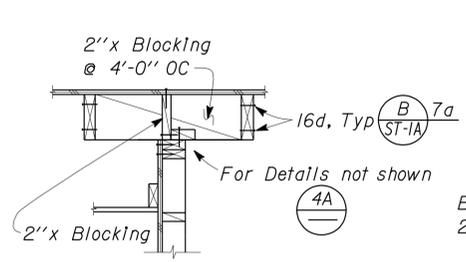
**9A 9B INTERIOR AND CORNER WALL FRAMING DETAILS**  
No Scale



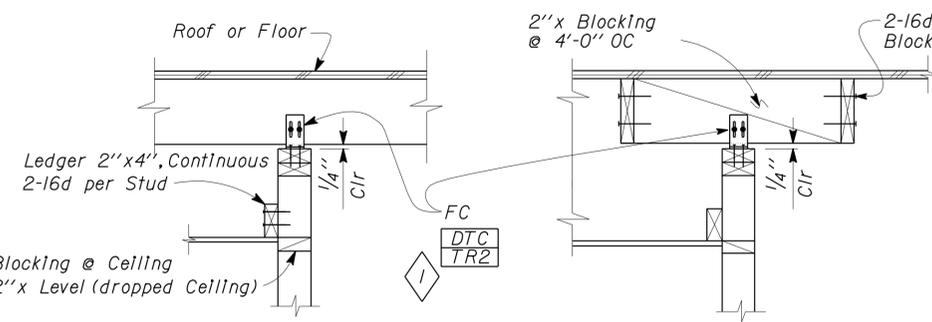
**4A LAP SPLICE ACROSS JOISTS**



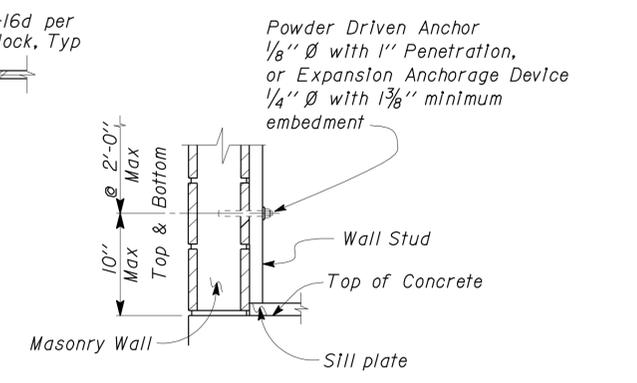
**4B BUTT SPLICE ACROSS JOISTS**



**4C JOISTS PARALLEL TO WALL**



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



**11 STUD ANCHORAGE TO MASONRY**  
No Scale

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

FILE NO. XS-25-5.I	DESIGN BY Sean Samuel	CHECKED BY [Signature]	APPROVED BY RE Travis
DRAWING DATE 1-04	DETAILS BY Peter F. von Sawoy	CHECKED BY [Signature]	DESIGN SUPERVISOR
	SUBMITTED BY Sean Samuel	DESIGN ENGINEER	

Revision - 11-02-2006  
 Updated USP connector ID.

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

BRIDGE NO. 5505  
 POST MILE  
**SHOP 29 FACILITY REMODEL**  
 WOOD FRAMING STANDARD - DETAILS  
 SHEET ST-1B

DOES SD Imperial Rev. 9/02

SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

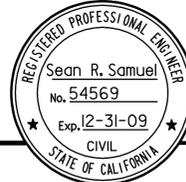
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

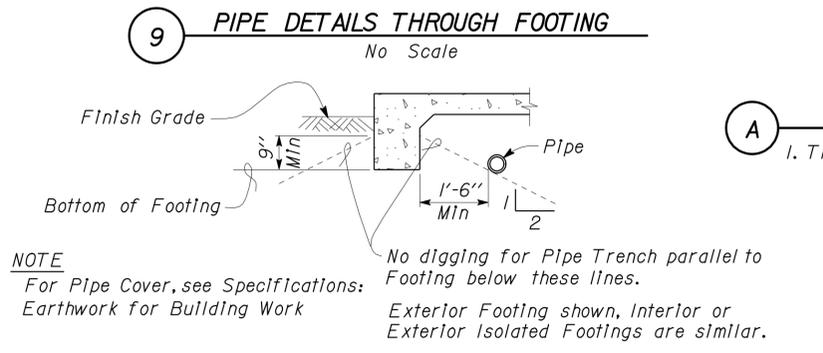
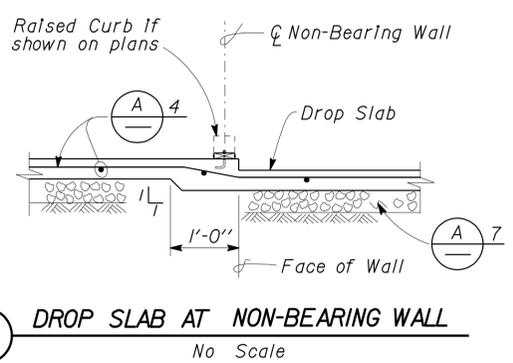
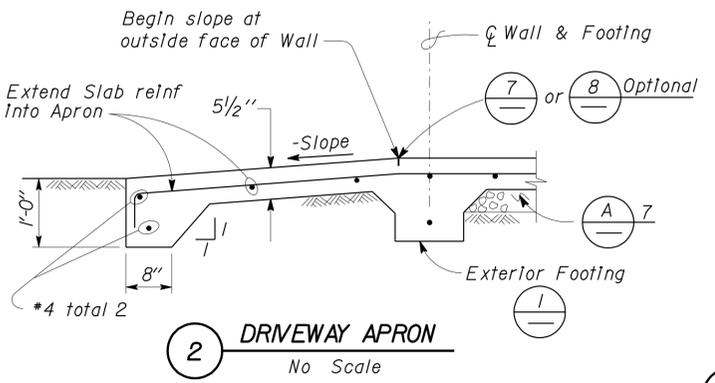
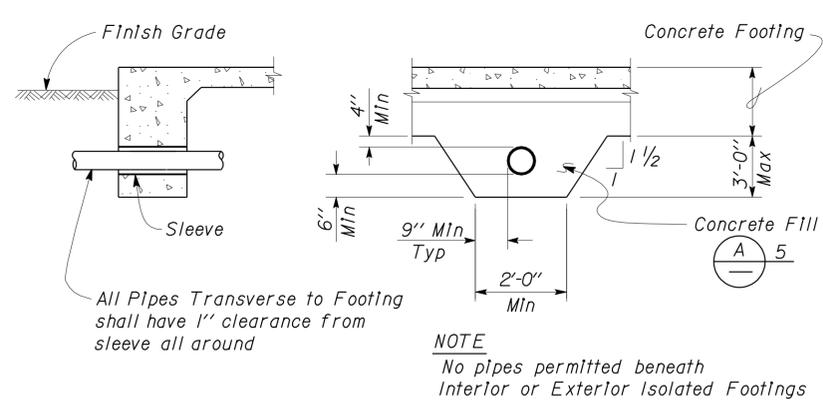
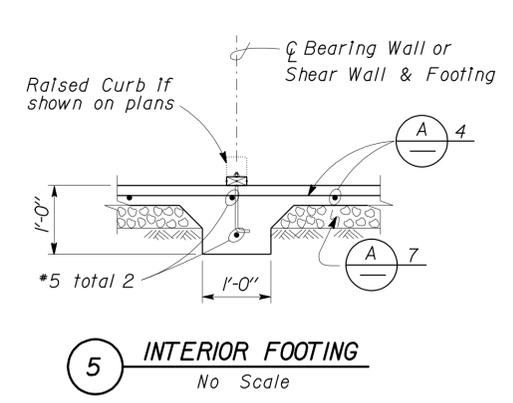
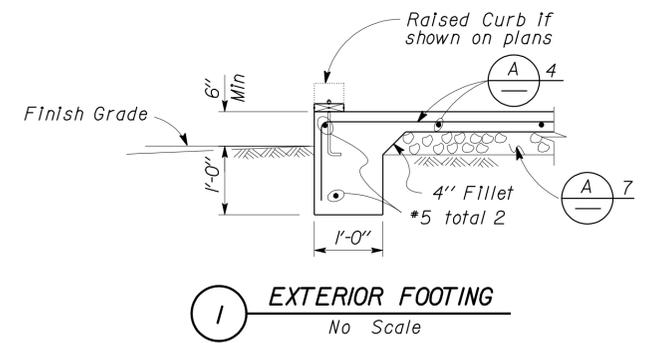
CU 09123 EA 310601

REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
10-16-03 11-14-03 11-02-06	

DISREGARD PRINTS BEARING EARLIER REVISION DATES

04-JAN-2010 07:18 s1-01b.dgn

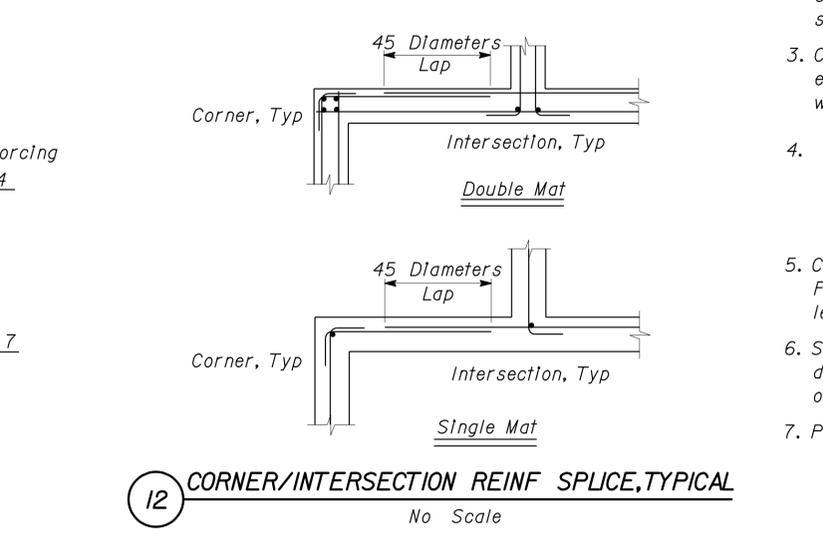
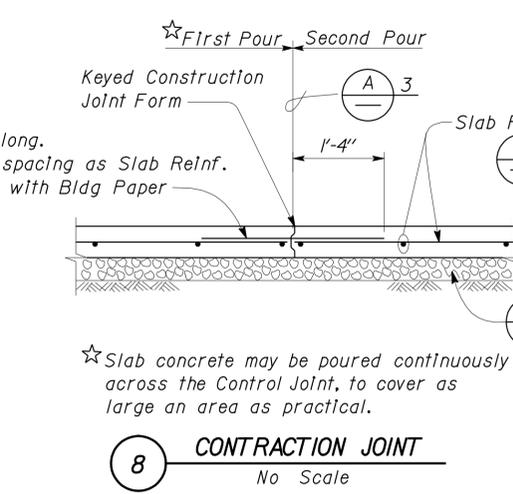
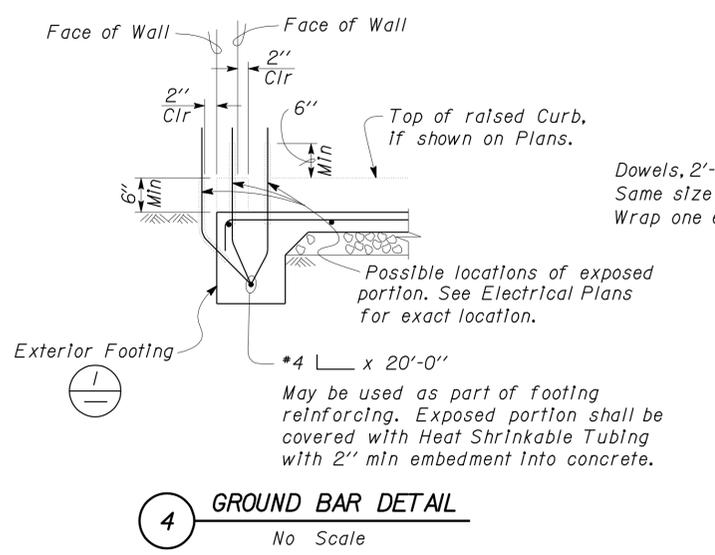
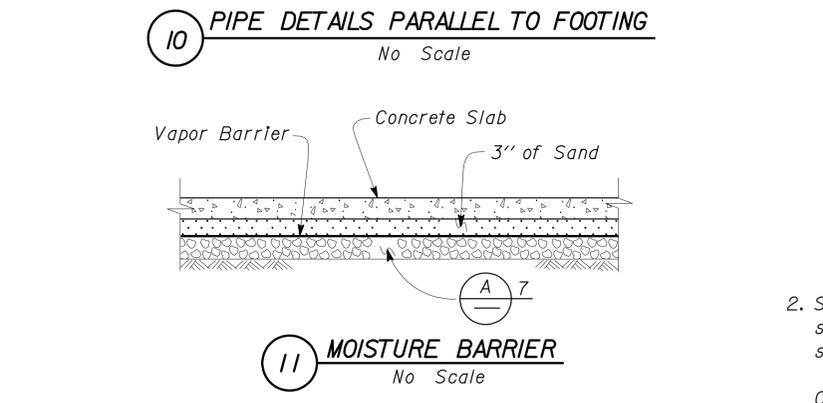
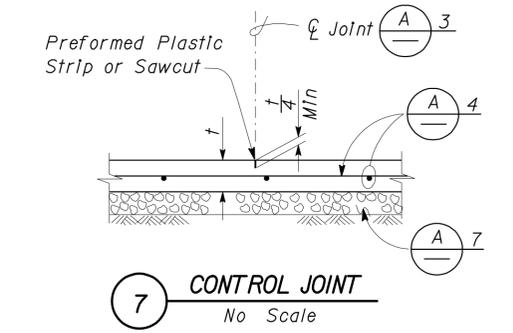
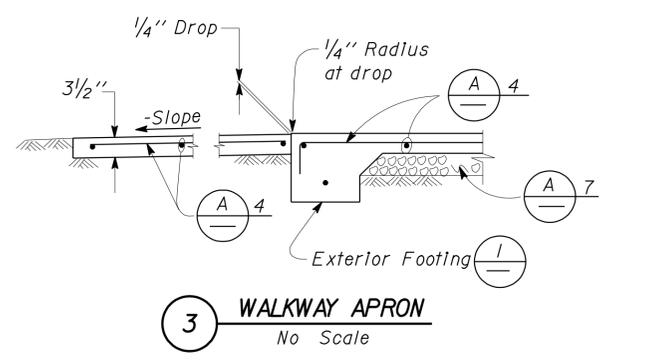
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		54	102
 REGISTERED CIVIL ENGINEER				8-29-08 DATE	
11-17-08 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



**A CONCRETE NOTES**

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

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



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

FILE NO. XS-25-1	DESIGN BY Sean Samuel	CHECKED [Signature]	APPROVED [Signature]
DRAWING DATE 1-04	DETAILS BY [Signature]	CHECKED [Signature]	DESIGN SUPERVISOR [Signature]
	SUBMITTED BY Sean Samuel	DESIGN ENGINEER	

STATE OF CALIFORNIA	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 5505	SHOP 29 FACILITY REMODEL	SHEET ST-2
DEPARTMENT OF TRANSPORTATION	ARCHITECTURAL AND STRUCTURAL DESIGN	POST MILE	CONCRETE STANDARD	

CU 09123	EA 310601
----------	-----------

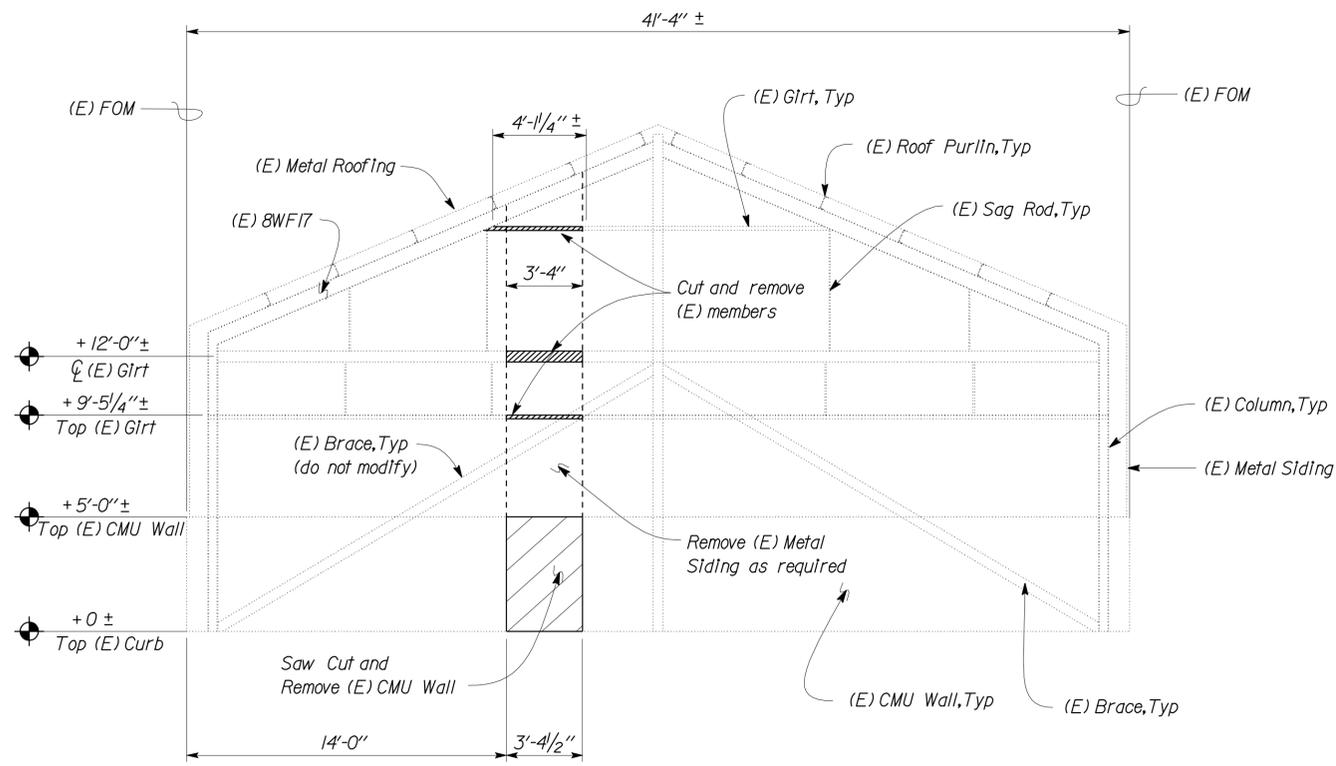
DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
	1-16-04 11-14-05	



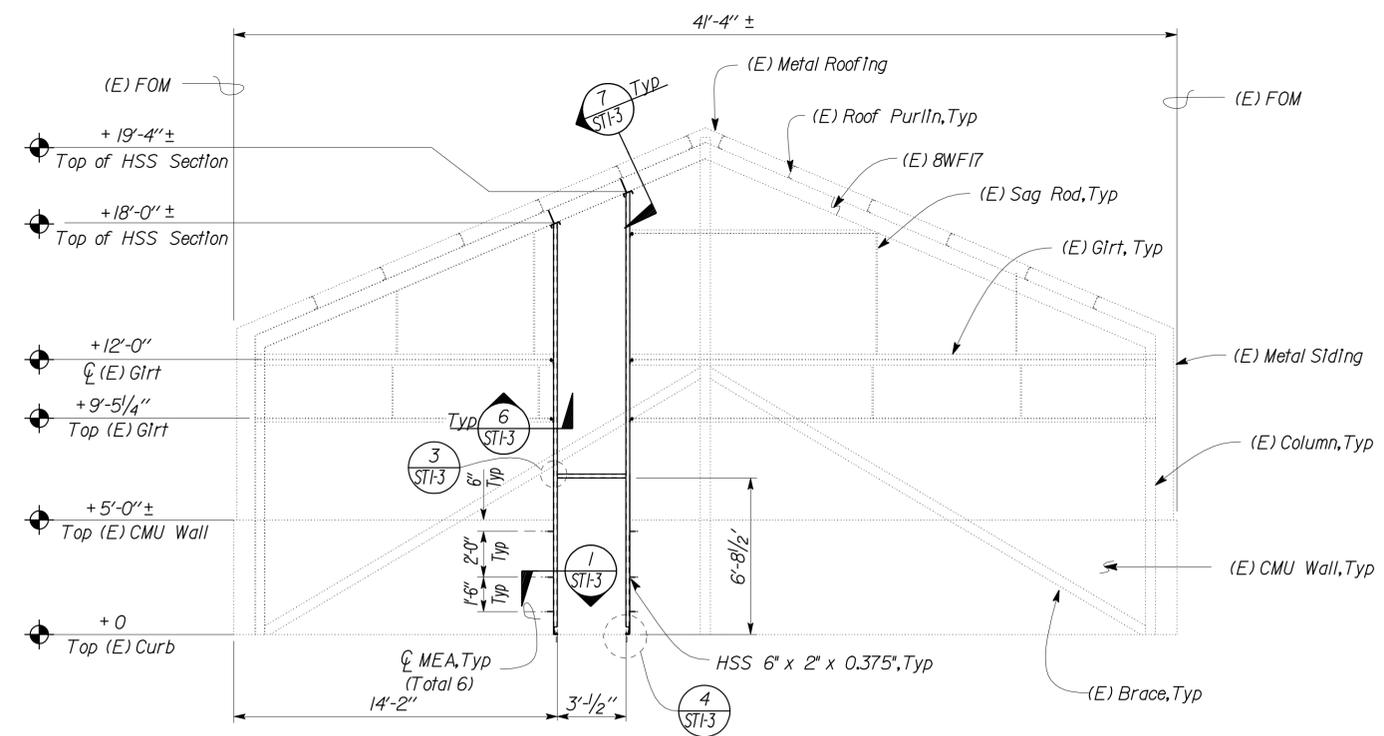
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		56	102

*Sean Samuel*  
 REGISTERED CIVIL ENGINEER  
 DATE 8-29-08  
 No. 54569  
 Exp. 12-31-09  
 CIVIL  
 STATE OF CALIFORNIA

11-17-08  
 PLANS APPROVAL DATE  
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



**1** REMOVAL ELEVATION  
 Scale 1/4" = 1'-0"



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

**NOTE**  
 The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

DESIGN BY	<i>Justin Uyehara</i>	CHECKED BY	<i>Joseph Camillo</i>
DETAILS BY	<i>Justin Uyehara</i>	CHECKED BY	<i>Joseph Camillo</i>
QUANTITIES BY	<i>Justin Uyehara</i>	CHECKED BY	<i>Joseph Camillo</i>

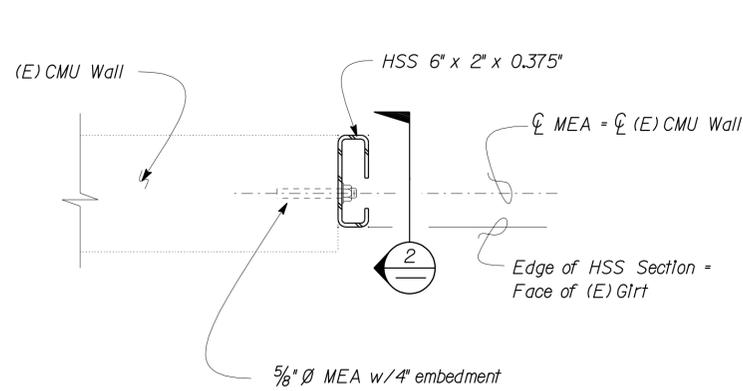
STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF ENGINEERING SERVICES  
 ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE NO.	5505	SHOP 29 FACILITY REMODEL	SHEET ST1-2
POST MILE			
WELDING SHOP		BUILDING MODIFICATION ELEVATIONS	

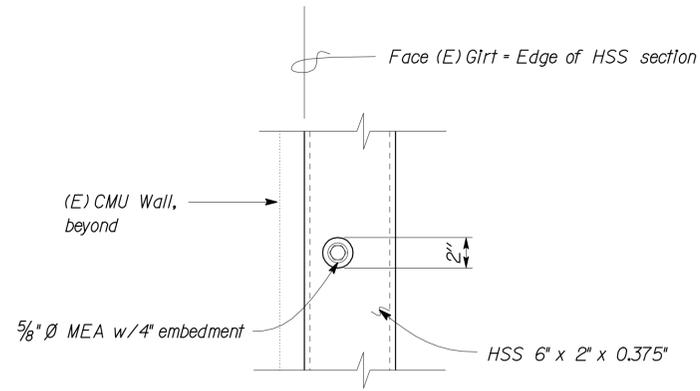
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		57	102

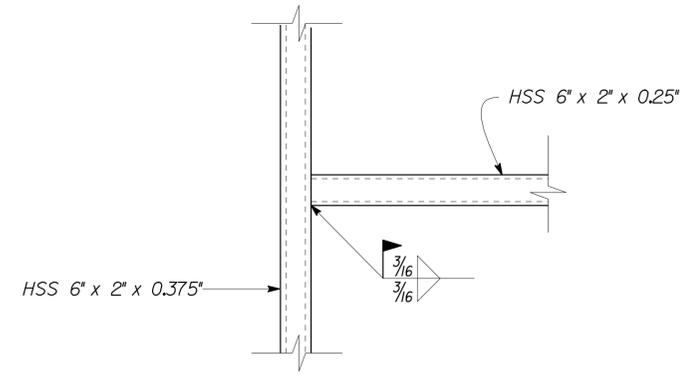
	8-29-08 DATE
11-17-08 PLANS APPROVAL DATE	
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>	



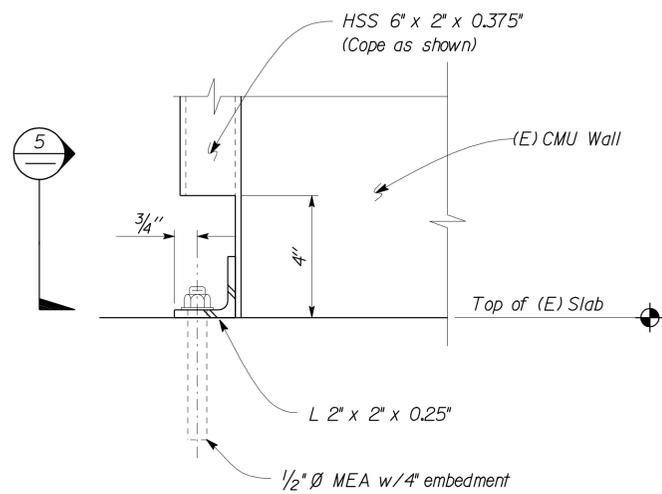
**1** HSS SECTION CONNECTION DETAIL  
Scale 2" = 1' - 0"



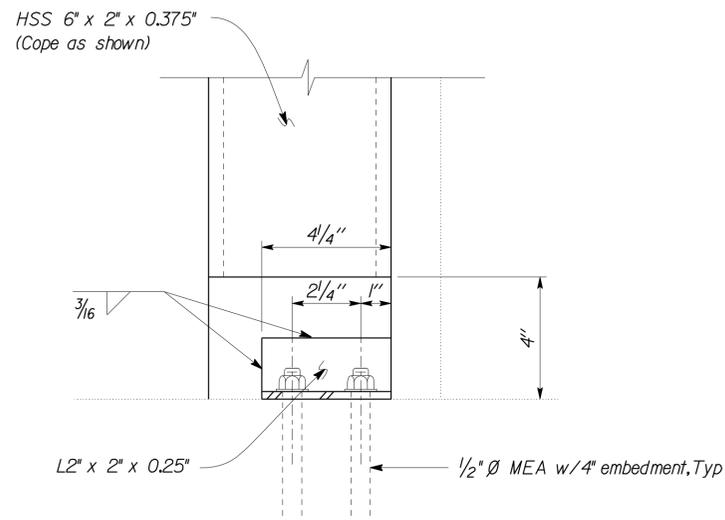
**2** MEA ACCESS OPENING DETAIL  
Scale 2" = 1' - 0"



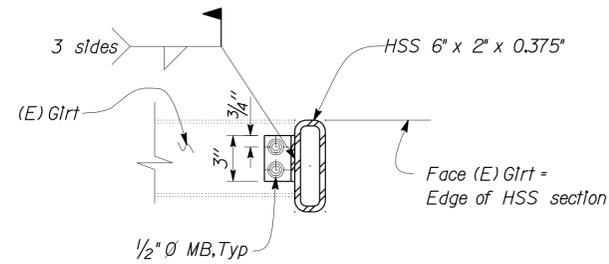
**3** HSS SECTION CONNECTION DETAIL  
Scale 2" = 1' - 0"



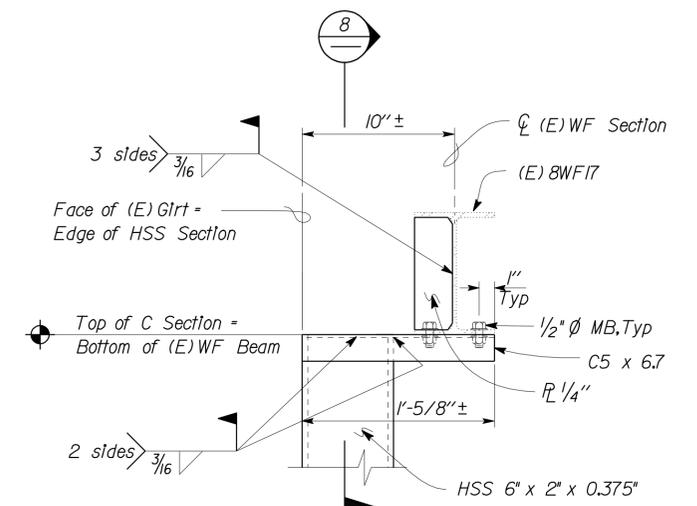
**4** HSS SECTION ANCHORAGE DETAIL  
Scale 4" = 1' - 0"



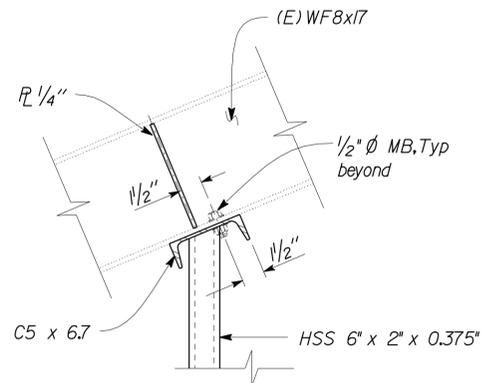
**5** HSS SECTION ANCHORAGE DETAIL  
Scale 4" = 1' - 0"



**6** TYPICAL (E) GIRT TO HSS SECTION CONNECTION  
Scale 2" = 1' - 0"



**7** HSS SECTION CONNECTION DETAIL  
Scale 2" = 1' - 0"



**8** HSS SECTION CONNECTION  
Scale 2" = 1' - 0"

**NOTE**  
The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

DESIGN	BY	JUSTIN UYEHARA	CHECKED	JOSEPH CAMILLO
DETAILS	BY	JUSTIN UYEHARA	CHECKED	JOSEPH CAMILLO
QUANTITIES	BY	JUSTIN UYEHARA	CHECKED	JOSEPH CAMILLO

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES  
ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE NO.  
5505  
POST MILE

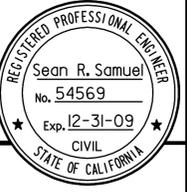
SHOP 29 FACILITY REMODEL

WELDING SHOP BUILDING MODIFICATION DETAILS

SHEET ST1-3

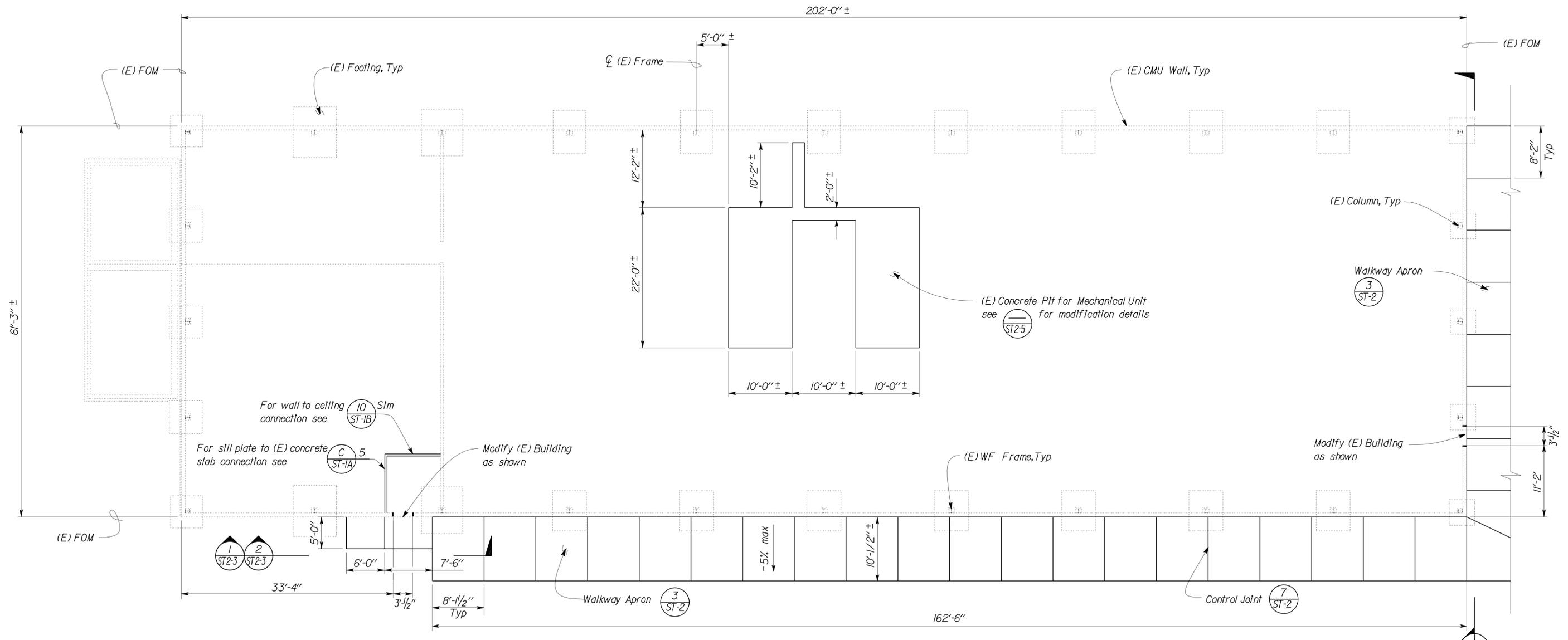
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		58	102


 8-29-08  
 REGISTERED CIVIL ENGINEER DATE



11-17-08  
 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.*



**NOTE**  
 The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

**1 FOUNDATION PLAN**  
 Scale 1/8" = 1' - 0"

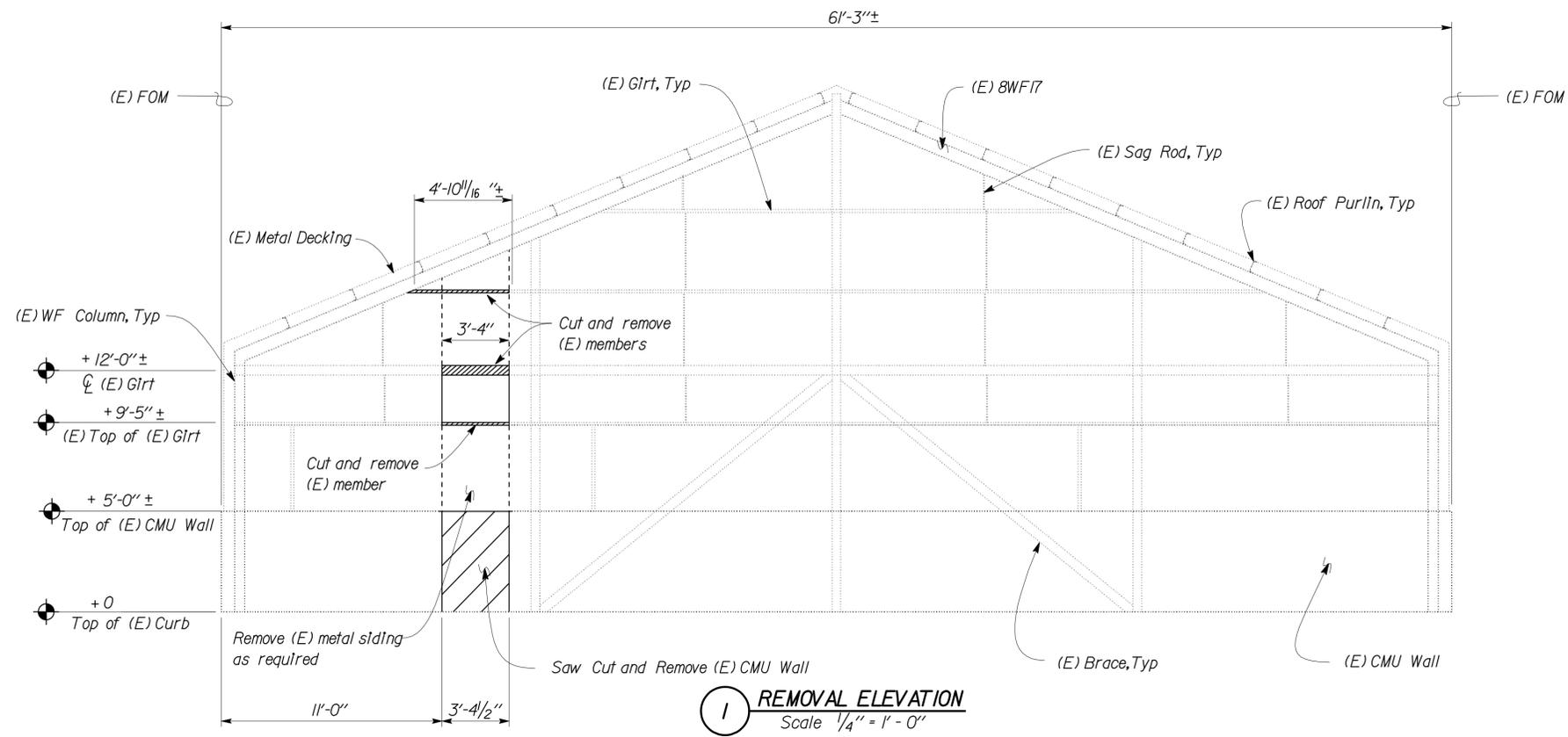


DOES SD Imperial Rev. 9/02	DESIGN BY	Justin Uyehara	CHECKED	Joseph Camillori	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO.	SHOP 29 FACILITY REMODEL		SHEET OF <b>ST2-1</b>	
	DETAILS BY	Justin Uyehara	CHECKED	Joseph Camillori			5505	MOTOR REPAIR SHOP	FOUNDATION PLAN		
	QUANTITIES BY	Justin Uyehara	CHECKED	Joseph Camillori			POST MILE				REVISION DATES (PRELIMINARY STAGE ONLY)
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0	1	2	3	CU 09123 EA 310601	DISREGARD PRINTS BEARING EARLIER REVISION DATES	10-25-07			

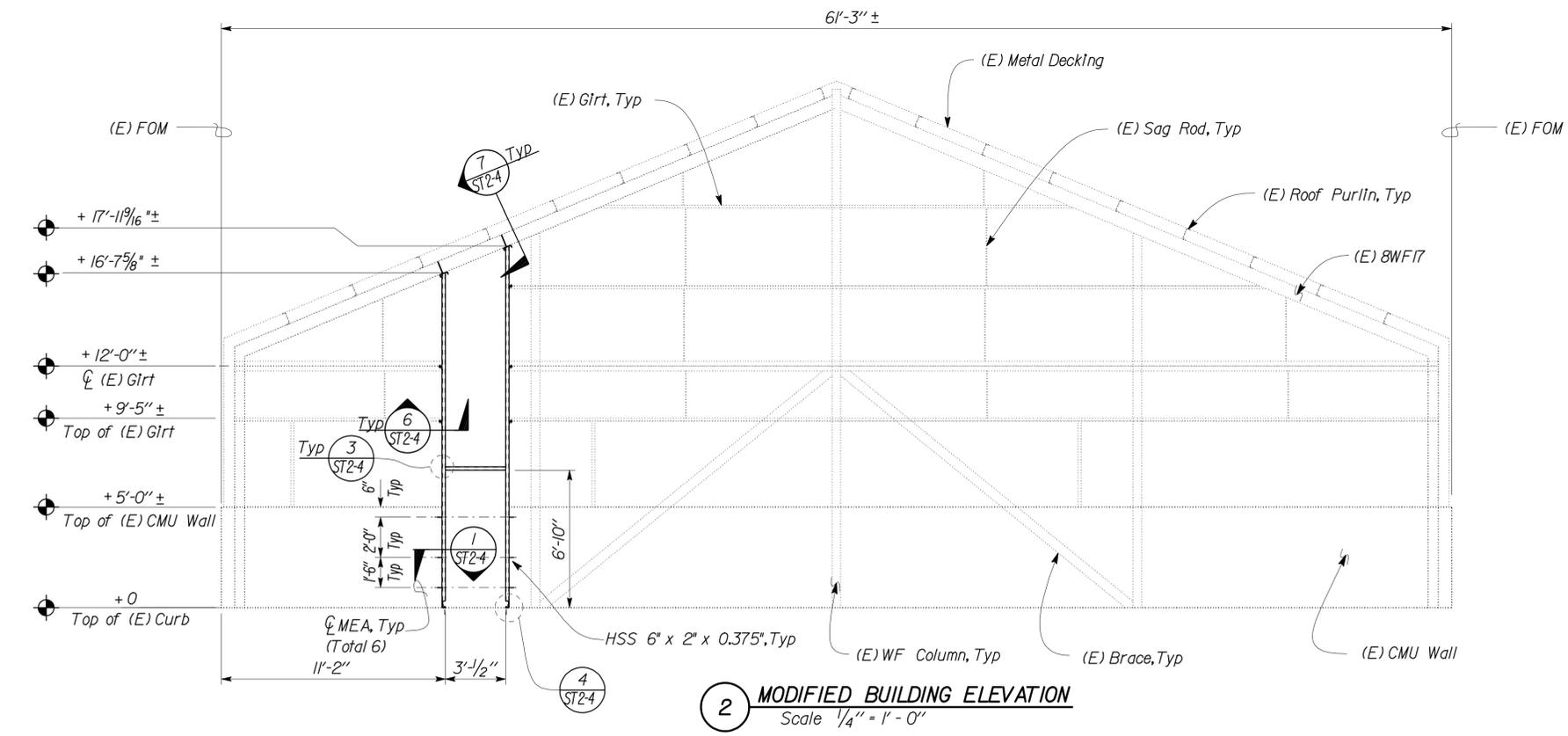
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		59	102

Sean Samuel  
 REGISTERED CIVIL ENGINEER  
 DATE 8-29-08  
 No. 54569  
 Exp. 12-31-09  
 CIVIL  
 STATE OF CALIFORNIA

11-17-08  
 PLANS APPROVAL DATE  
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



**1** **REMOVAL ELEVATION**  
 Scale 1/4" = 1'-0"



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

Note: Replace metal siding as required

**NOTE**  
 The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

DESIGN	BY	Justin Uyehara	CHECKED	Joseph Camilloni
DETAILS	BY	Justin Uyehara	CHECKED	Joseph Camilloni
QUANTITIES	BY	Justin Uyehara	CHECKED	Joseph Camilloni

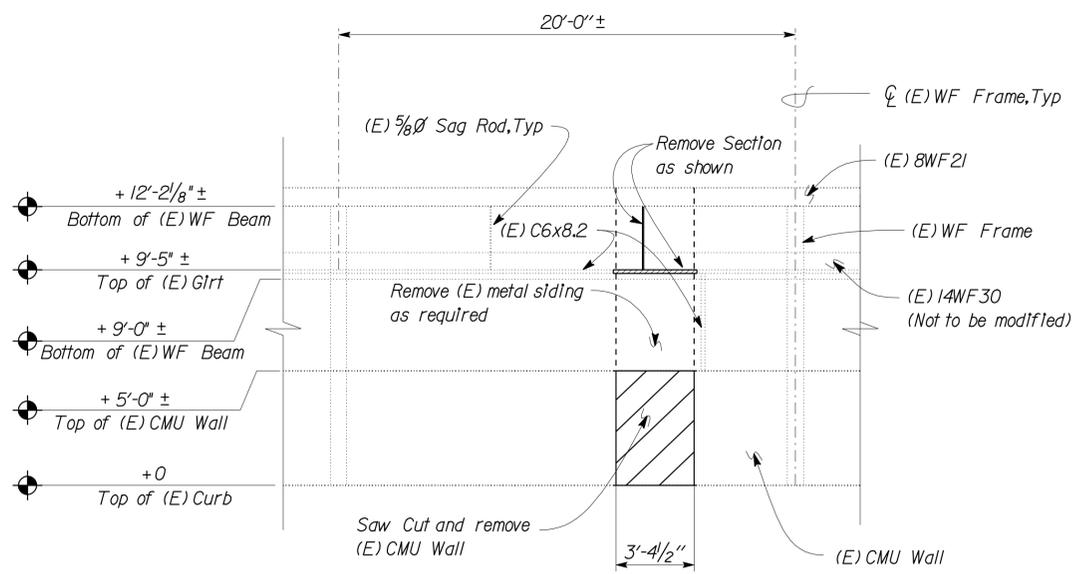
STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF ENGINEERING SERVICES  
 ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE NO.	5505	SHOP 29 FACILITY REMODEL	SHEET ST2-2
POST MILE	MOTOR REPAIR SHOP		
BUILDING MODIFICATION ELEVATIONS		REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF

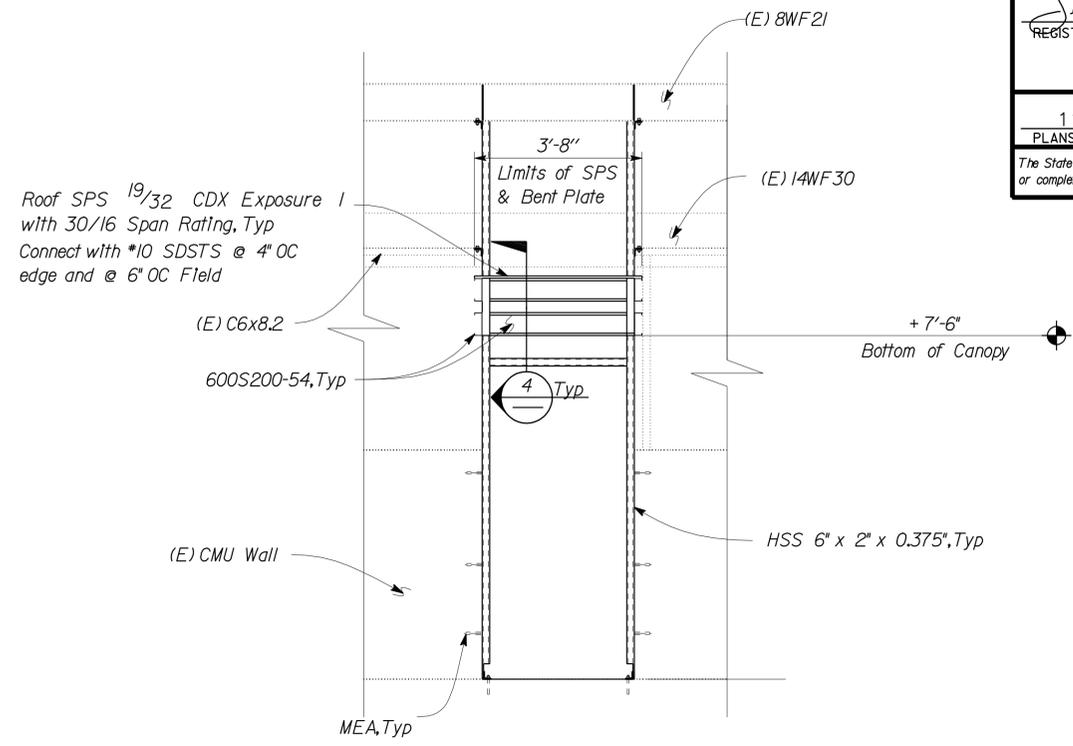
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		60	102

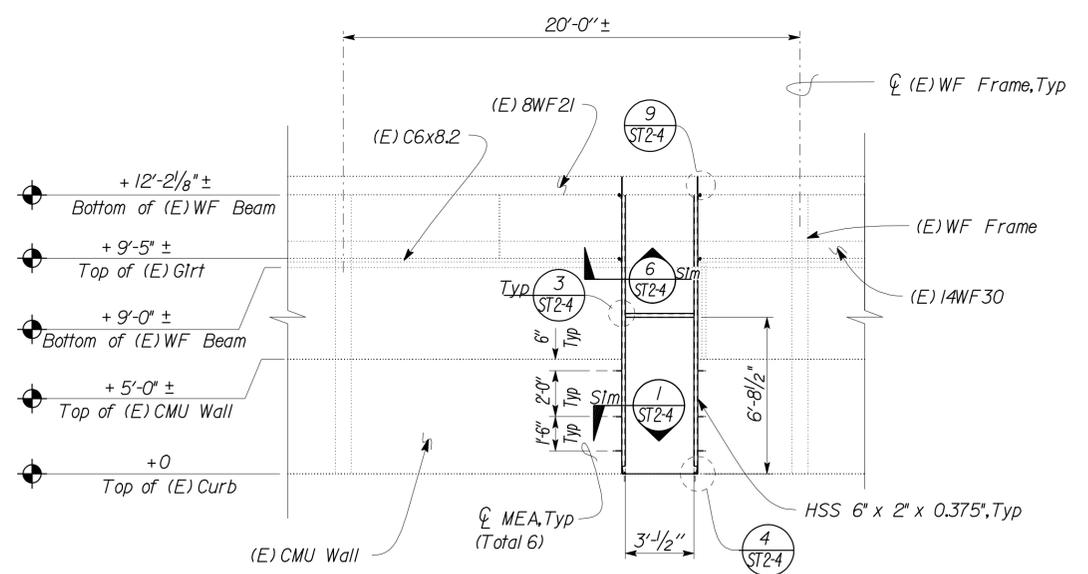
 REGISTERED CIVIL ENGINEER DATE 8-29-08	
11-17-08 PLANS APPROVAL DATE	
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>	



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



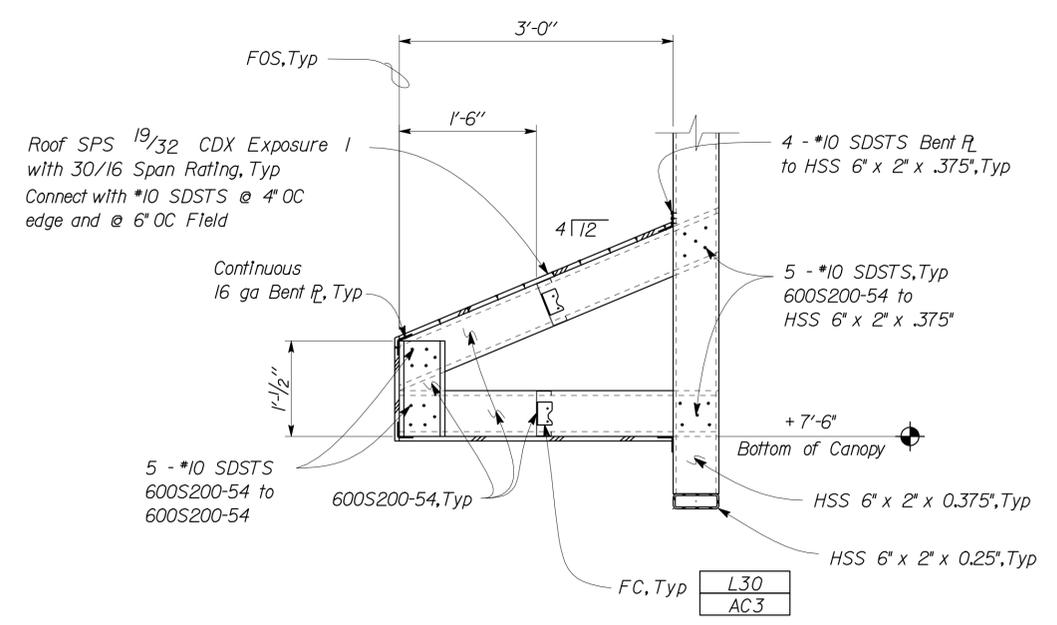
**3 CANOPY ELEVATION**  
 Scale 1/2" = 1'-0"



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

- Note:
1. Replace metal siding as required
  2. Canopy framing not shown for clarity see **3**

**NOTE**  
 The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.



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

DESIGN	BY	JUSTIN UYEHARA	CHECKED	JOSEPH CAMILLORI
DETAILS	BY	JUSTIN UYEHARA	CHECKED	JOSEPH CAMILLORI
QUANTITIES	BY	JUSTIN UYEHARA	CHECKED	JOSEPH CAMILLORI

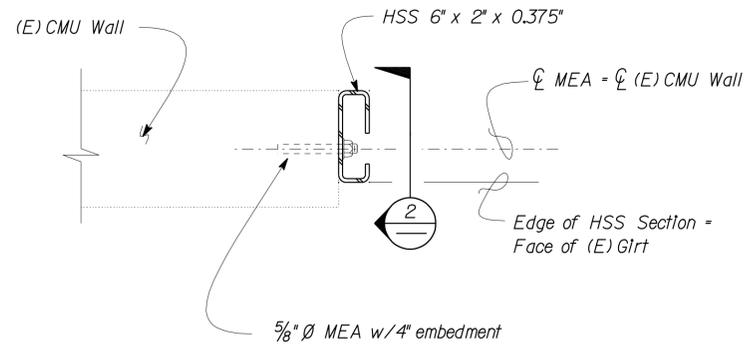
STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF ENGINEERING SERVICES  
 ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE NO.	5505
POST MILE	MOTOR REPAIR SHOP

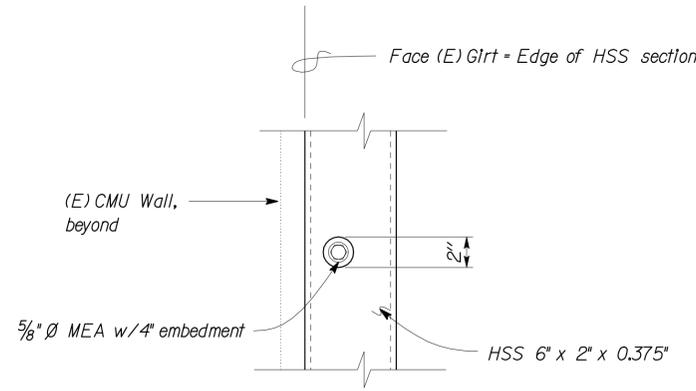
**SHOP 29 FACILITY REMODEL**  
 BUILDING MODIFICATION ELEVATION

SHEET **ST2-3**

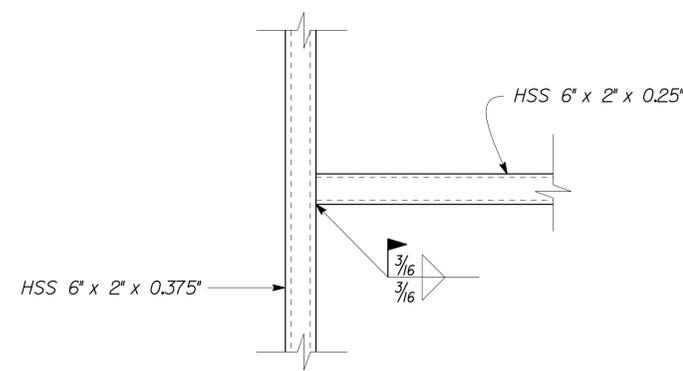
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		61	102
 REGISTERED CIVIL ENGINEER			8-29-08 DATE		
11-17-08 PLANS APPROVAL DATE					
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					



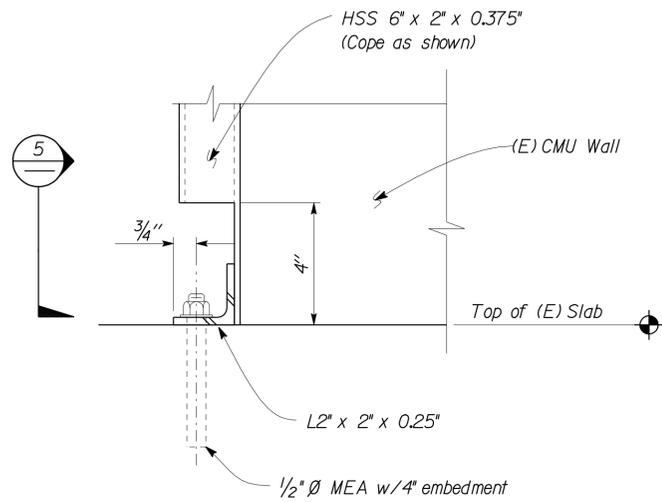
**1 HSS SECTION CONNECTION DETAIL**  
Scale 2" = 1' - 0"



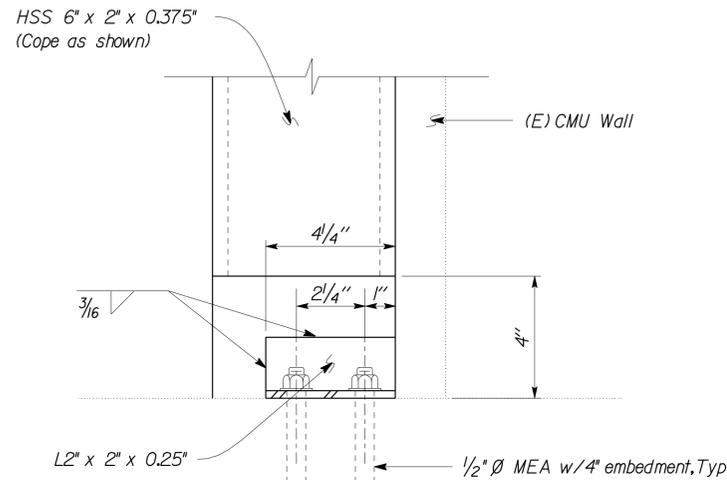
**2 MEA ACCESS OPENING DETAIL**  
Scale 2" = 1' - 0"



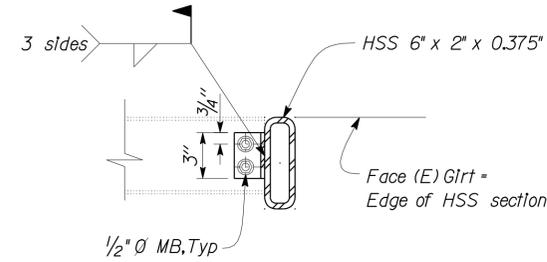
**3 HSS SECTION CONNECTION DETAIL**  
Scale 2" = 1' - 0"



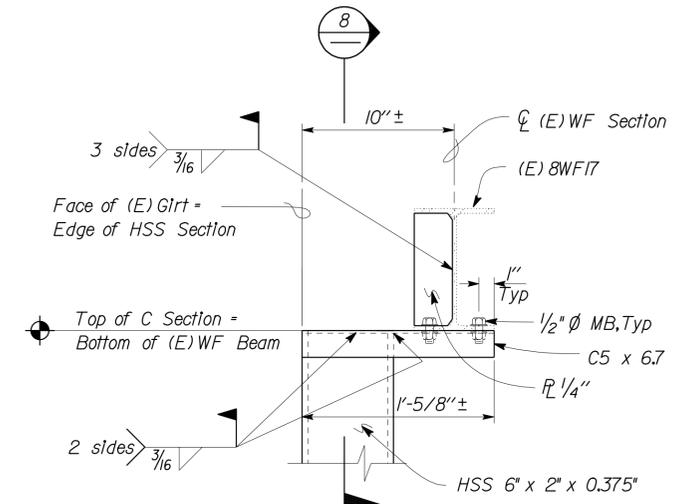
**4 HSS SECTION ANCHORAGE DETAIL**  
Scale 2" = 1' - 0"



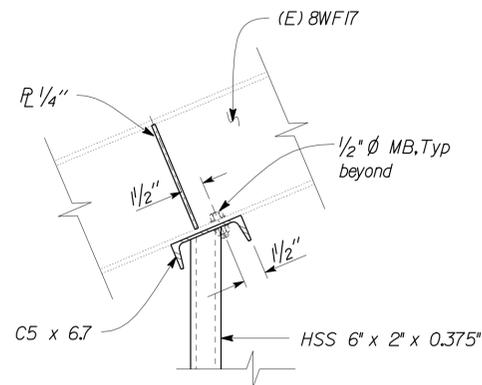
**5 HSS SECTION ANCHORAGE DETAIL**  
Scale 2" = 1' - 0"



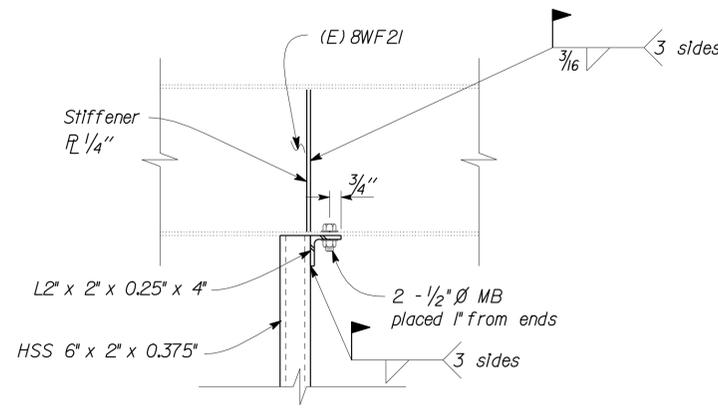
**6 TYPICAL (E) GIRT TO HSS SECTION CONNECTION**  
Scale 2" = 1' - 0"



**7 HSS SECTION CONNECTION DETAIL**  
Scale 2" = 1' - 0"



**8 HSS SECTION CONNECTION**  
Scale 2" = 1' - 0"



**9 HSS SECTION CONNECTION**  
Scale 2" = 1' - 0"

**NOTE**  
The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

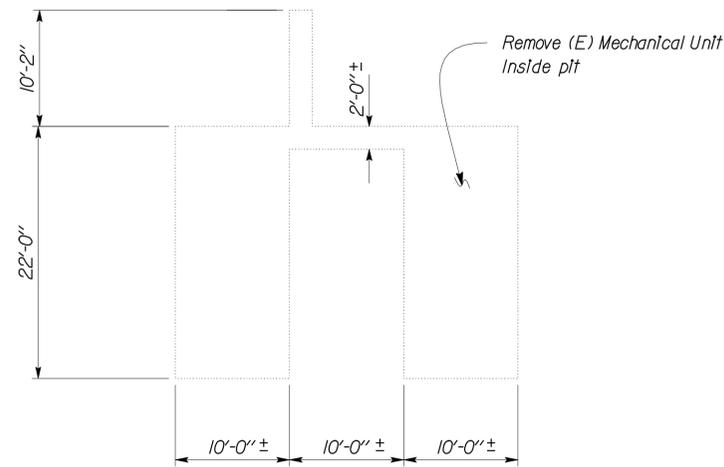
DESIGN BY <i>Justin Uyehara</i> CHECKED <i>Joseph Camilleri</i>	STATE OF CALIFORNIA	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 5505	SHOP 29 FACILITY REMODEL		SHEET ST2-4
DETAILS BY <i>Justin Uyehara</i> CHECKED <i>Joseph Camilleri</i>	DEPARTMENT OF TRANSPORTATION		POST MILE	MOTOR REPAIR SHOP	BUILDING MODIFICATION DETAILS	
QUANTITIES BY <i>Justin Uyehara</i> CHECKED <i>Joseph Camilleri</i>						
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	CU 09123 EA 310601	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	Iny	5505		62	102

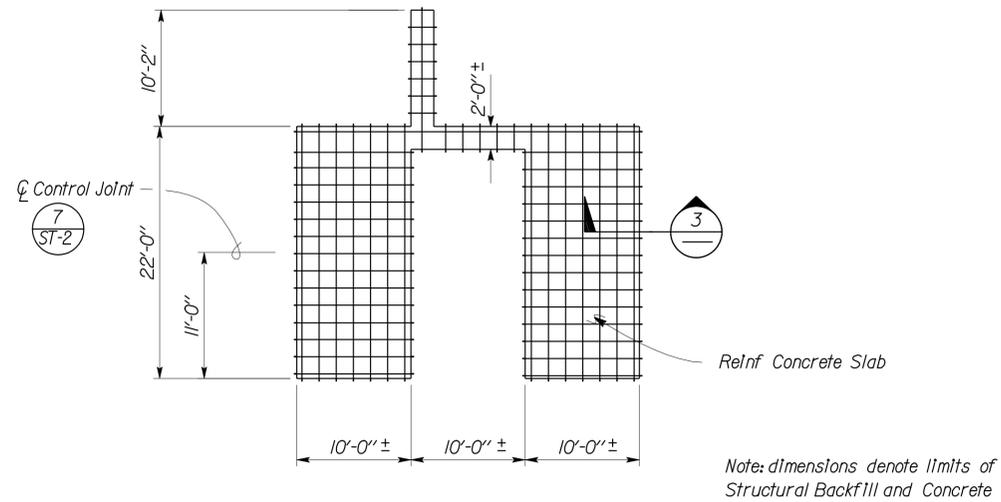
  
 REGISTERED CIVIL ENGINEER      8-29-08      DATE



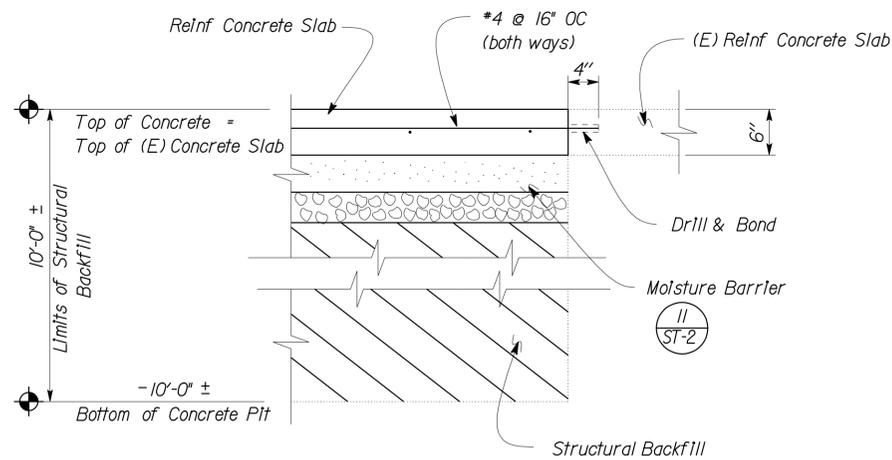
11-17-08  
 PLANS APPROVAL DATE  
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



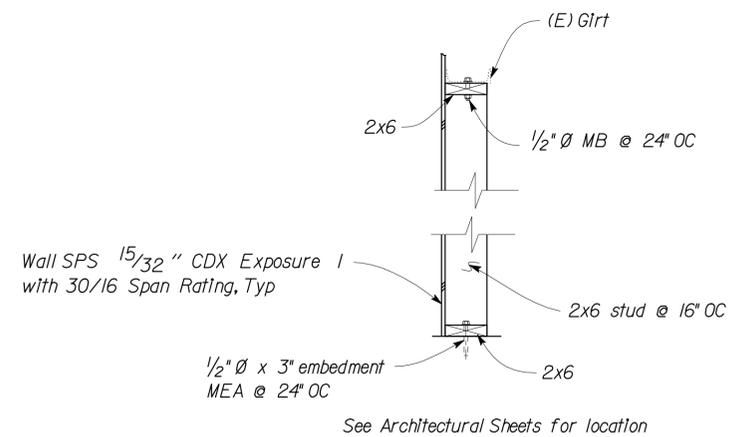
**1** REMOVAL PLAN  
 Scale 1/8" = 1' - 0"



**2** OPENING MODIFICATION PLAN  
 Scale 1/8" = 1' - 0"



**3** OPENING MODIFICATION DETAIL  
 Scale 1" = 1' - 0"



**4** TYPICAL OPENING MODIFICATION DETAIL  
 No Scale

**NOTE**  
 The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

DESIGN	BY	Justin Uyehara	CHECKED	Joseph Camilloni
DETAILS	BY	Justin Uyehara	CHECKED	Joseph Camilloni
QUANTITIES	BY		CHECKED	

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES  
 ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE NO.	5505
POST MILE	

MOTOR REPAIR SHOP

**SHOP 29 FACILITY REMODEL**

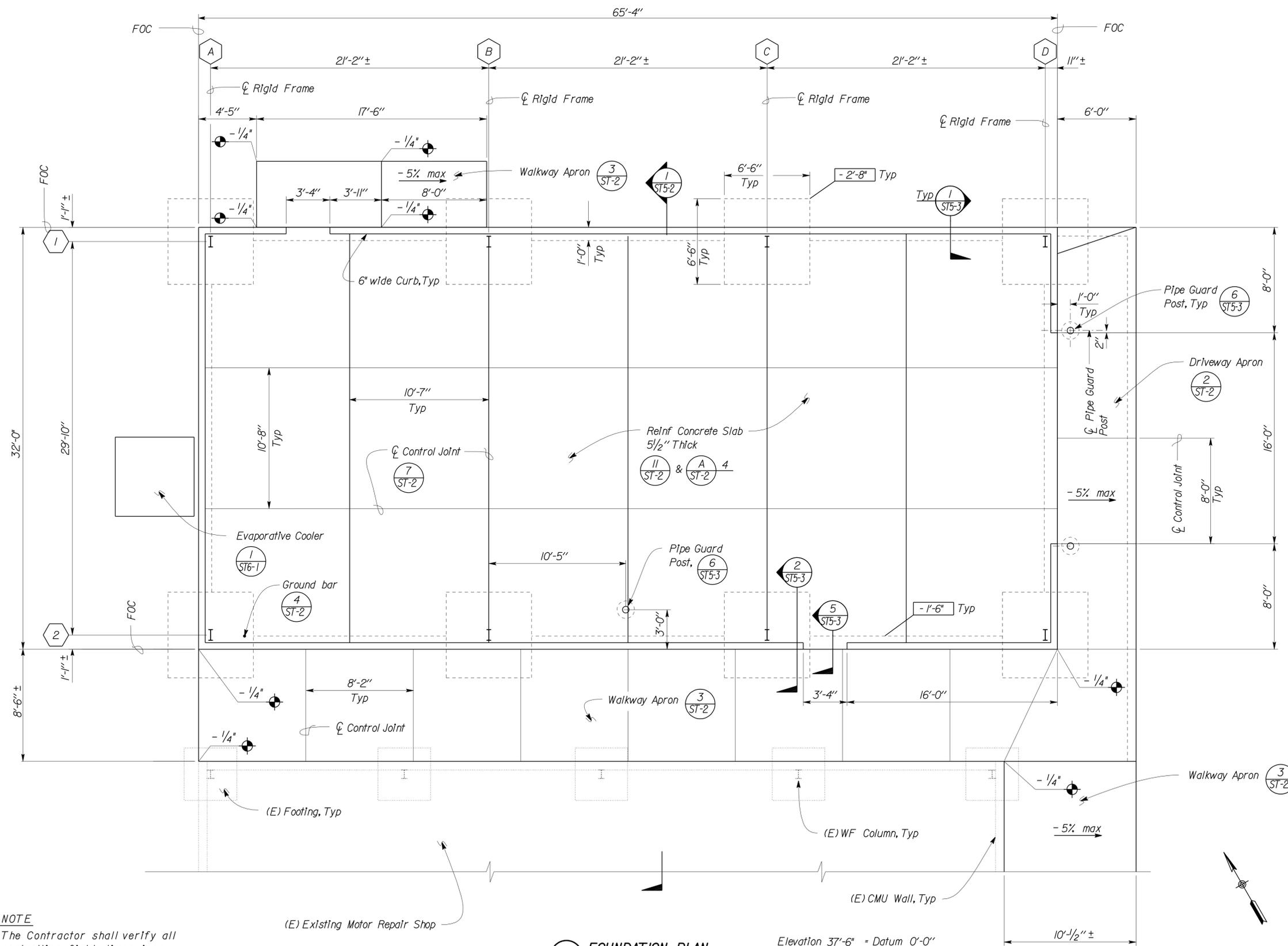
**OPENING MODIFICATION DETAILS**

SHEET **ST2-5**

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		63	102

Sean Samuel  
 REGISTERED CIVIL ENGINEER  
 DATE 8-29-08  
 No. 54569  
 Exp. 12-31-09  
 CIVIL  
 STATE OF CALIFORNIA

11-17-08  
 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 PRE-ENGINEERED STEEL BUILDING**
- Rigid frames shall be designed for all loads required by the 2007 California Building Code.
  - Rigid frame anchor bolt connections shall be embedded into the footing a minimum of 20 bolt diameters.
  - Rigid frames shall be provided with a direct continuous tie between the base plates. Such ties shall be capable of supporting the maximum thrust generated under combined loads. The design of the frame tie rods is the responsibility of the building manufacturer. However if the manufacturer does not require frame tie rods, the frame tie rods shown on these project plans shall be installed as a minimum.
  - The foundation design is subject to modification based upon the requirements of the building design. Construct foundation after approval of pre-engineered building submittal.
  - All walls are to have exterior glirts.
  - Deflection criteria: Story drift =  $H/120$   
Framing members =  $L/180$
  - Rigid frames shall be provided at lines A through D, a total of 4

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

**NOTE**  
The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

DESIGN BY Justin Uyehara	CHECKED Joseph Camillo	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 5505	SHOP 29 FACILITY REMODEL		SHEET ST5-1
				POST MILE	SERVICE BAY ADDITION	FOUNDATION PLAN	
DETAILS BY Justin Uyehara	CHECKED Joseph Camillo	CU 09123 EA 310601		REVISION DATES (PRELIMINARY STAGE ONLY)			SHEET OF
QUANTITIES BY		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		DISREGARD PRINTS BEARING EARLIER REVISION DATES			

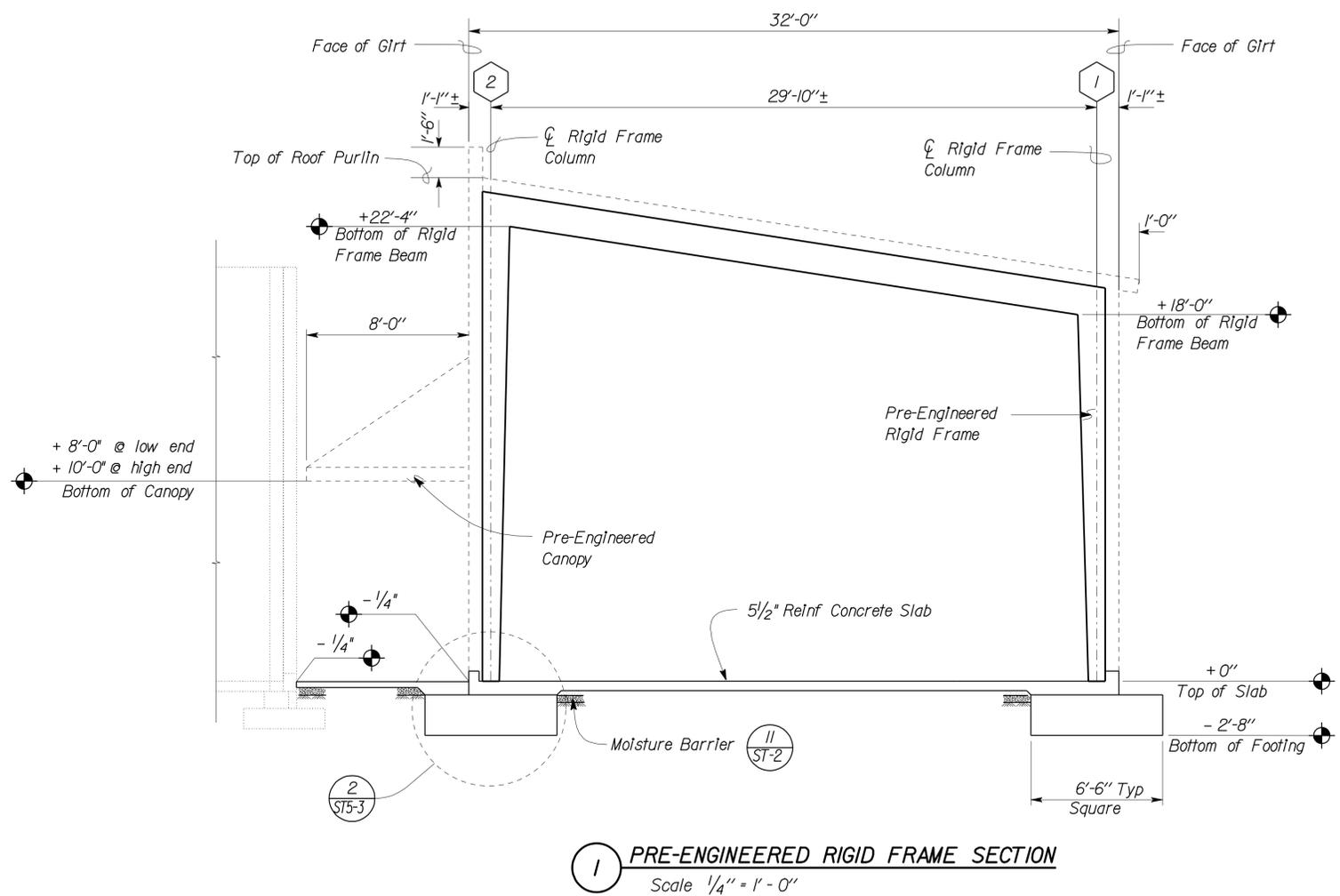
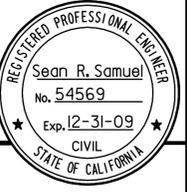
04-JAN-2010 07:20

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		64	102

*Sean Samuel* 8-29-08  
 REGISTERED CIVIL ENGINEER DATE

11-17-08  
 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.



**NOTE**  
The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

DESIGN	BY <i>Justin Uyehara</i>	CHECKED <i>Joseph Camillo</i>
DETAILS	BY <i>Justin Uyehara</i>	CHECKED <i>Joseph Camillo</i>
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES  
 ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE NO.	5505	<b>SHOP 29 FACILITY REMODEL</b>	SHEET <b>ST5-2</b>
POST MILE			
SERVICE BAY ADDITION		PRE-ENGINEERED RIGID FRAME SECTION	

DOES SD Imperial Rev. 9/02

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

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

CU 09123  
EA 310601

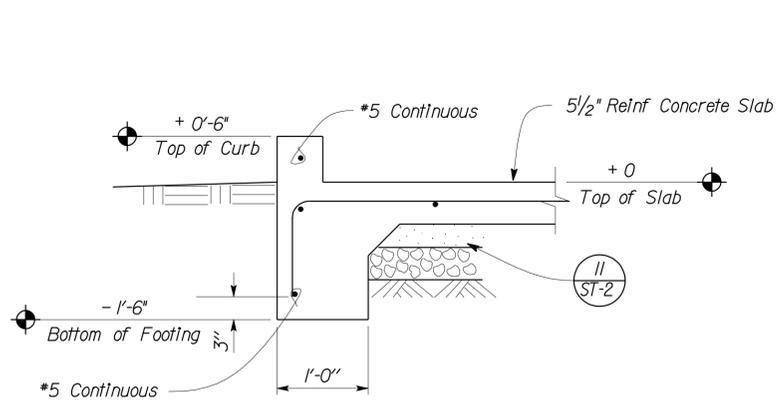
DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET	OF
10-25-07 11-17-08			

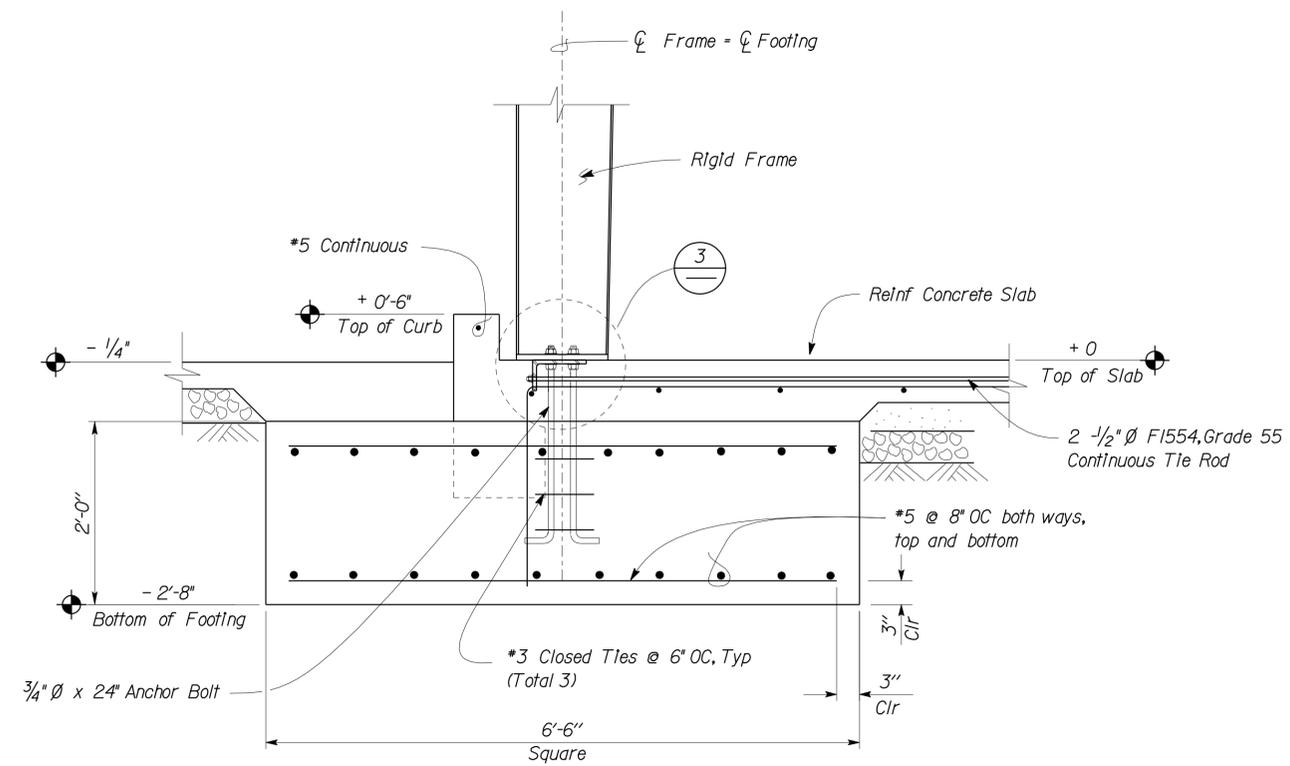
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		65	102

*Sean Samuel*  
 REGISTERED CIVIL ENGINEER  
 DATE 8-29-08  
 No. 54569  
 Exp. 12-31-09  
 CIVIL  
 STATE OF CALIFORNIA

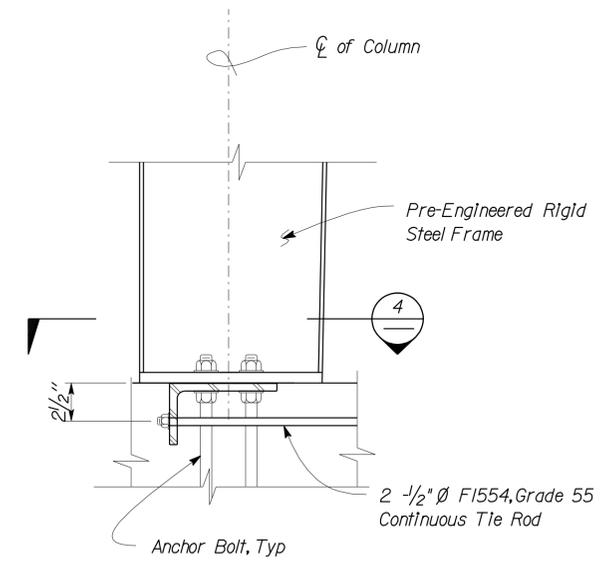
11-17-08  
 PLANS APPROVAL DATE  
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



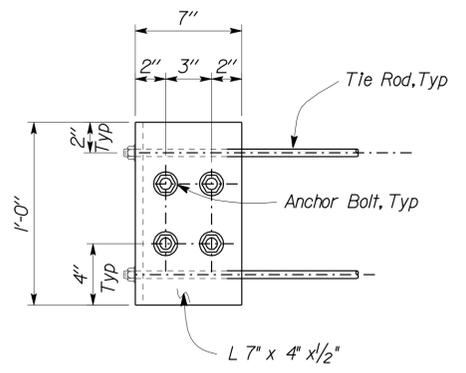
**1 PERIMETER FOOTING DETAIL**  
Scale 1" = 1'-0"



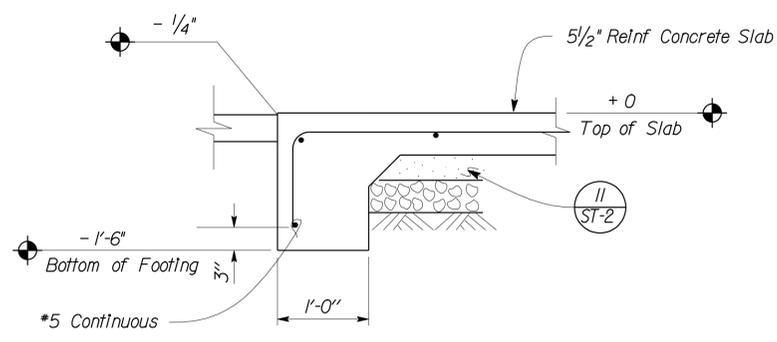
**2 FOOTING DETAIL**  
Scale 1" = 1'-0"



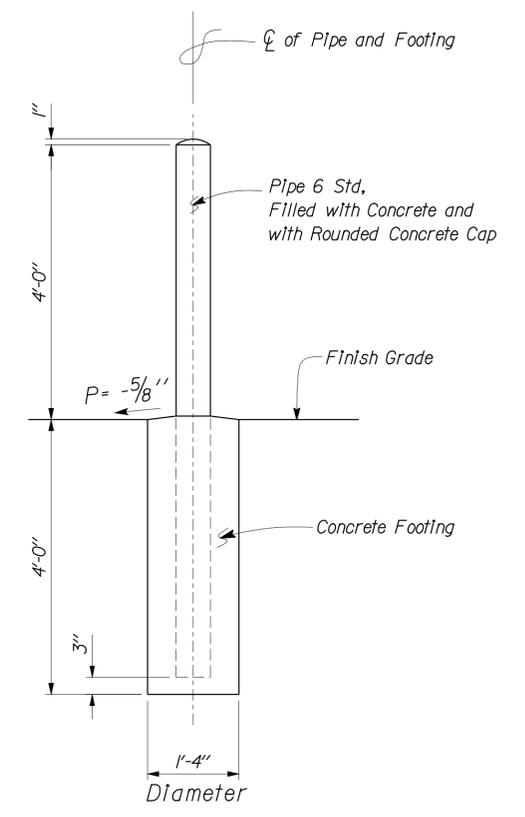
**3 FRAME TIE ELEVATION**  
Scale 2" = 1'-0"



**4 FRAME TIE PLAN**  
Scale 2" = 1'-0"



**5 PERIMETER FOOTING AT OPENING**  
Scale 1" = 1'-0"



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

**NOTE**  
 The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

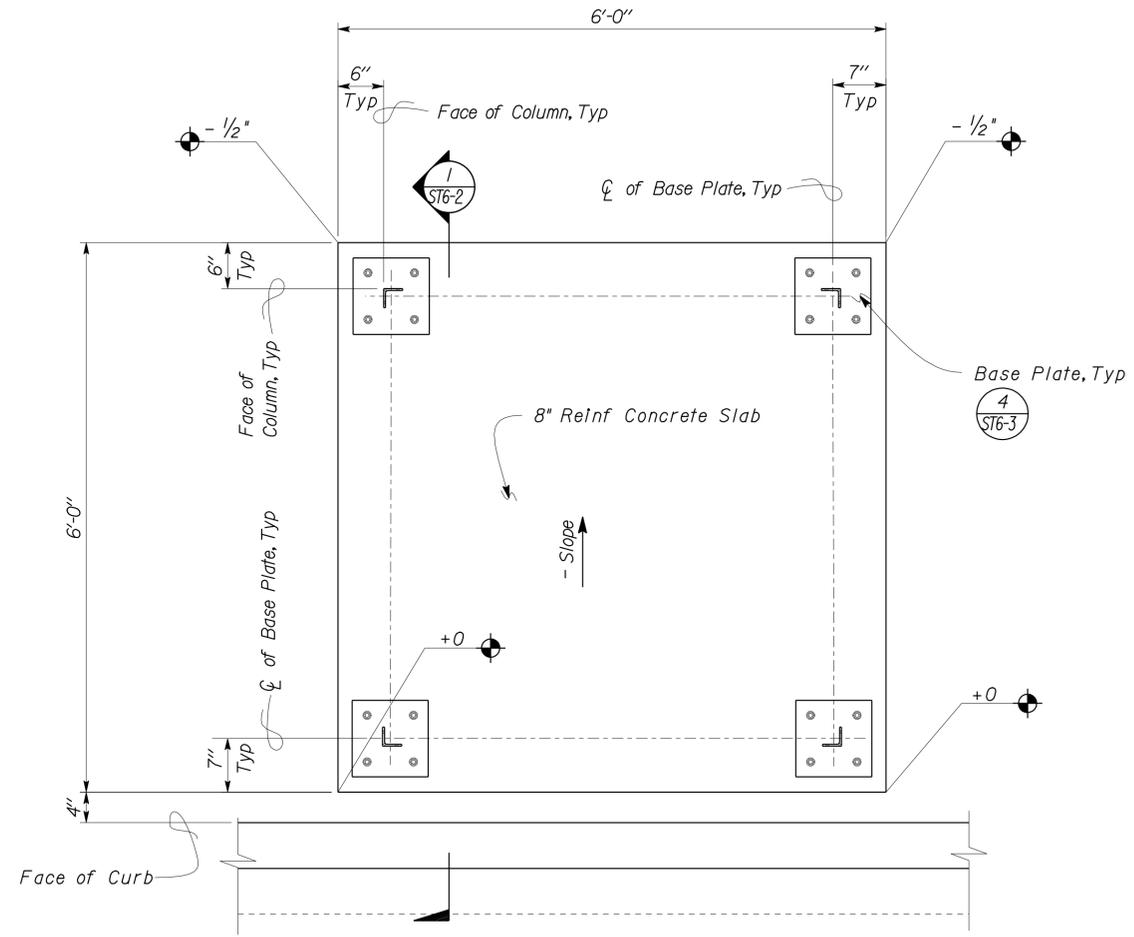
DESIGN BY <i>Justin Uyehara</i>	CHECKED <i>Joseph Camillo</i>	STATE OF CALIFORNIA	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO.	SHOP 29 FACILITY REMODEL		SHEET ST5-3
				5505	RIGID FRAME DETAILS		
DETAILS BY <i>Justin Uyehara</i>	CHECKED <i>Joseph Camillo</i>	DEPARTMENT OF TRANSPORTATION		POST MILE	SERVICE BAY ADDITION	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
QUANTITIES BY	CHECKED					10-25-07 11-17-08	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			CU 09123 EA 310601	DISREGARD PRINTS BEARING EARLIER REVISION DATES			

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		66	102

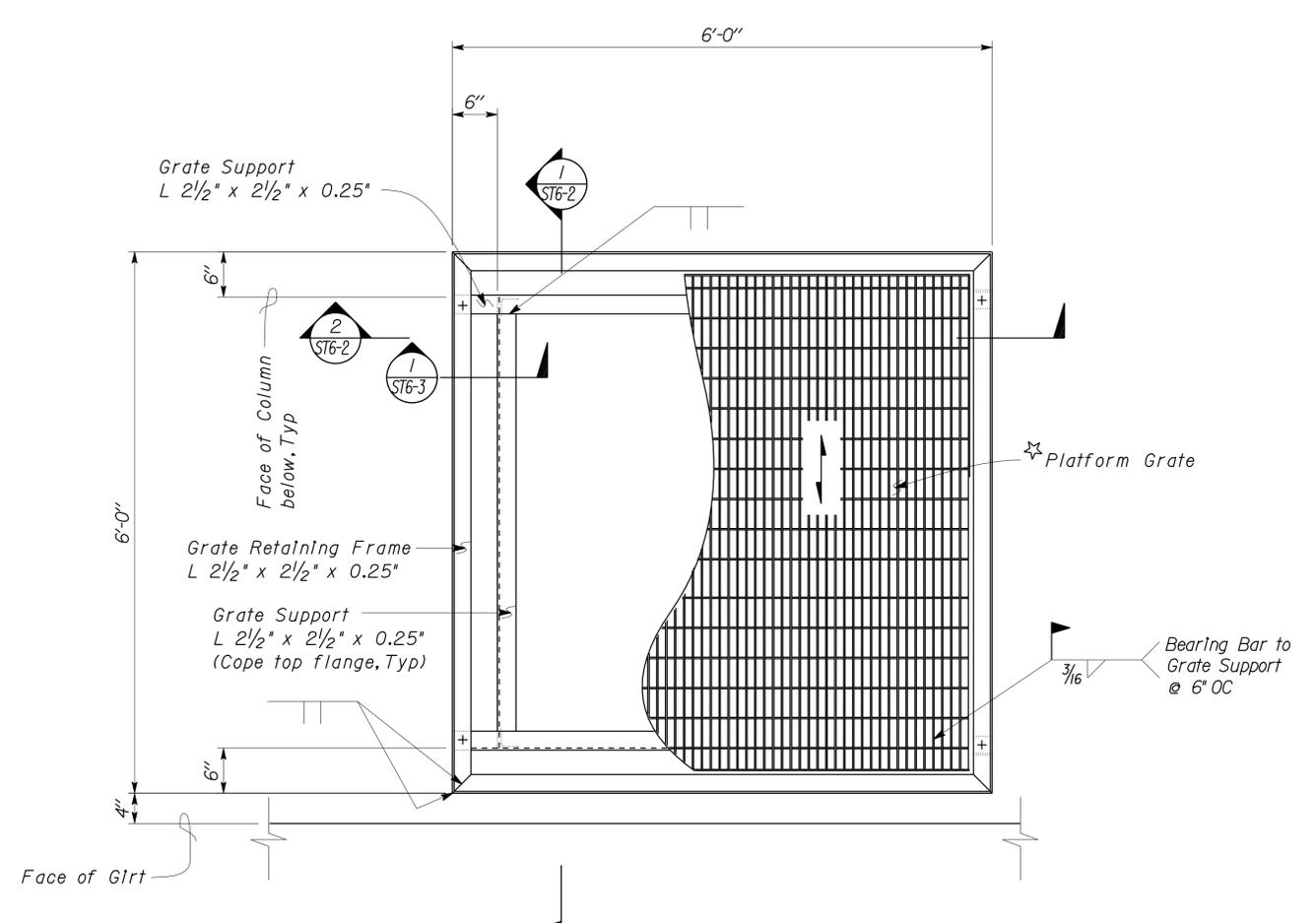

 REGISTERED CIVIL ENGINEER  
 DATE 8-29-08  
 PLANS APPROVAL DATE 11-17-08



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



☆ Welded Steel Grate:  
 Bearing Bars: 1/4" x 3/16" @ 1" OC  
 Cross Bars: 1/4" ∅ @ 4" OC  
 Trim Bars: 1/4" x 3/16", fillet weld to ends of Bearing Bars

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

DESIGN	BY	JUSTIN UYEHARA	CHECKED	JOSEPH CAMILLO
DETAILS	BY	JUSTIN UYEHARA	CHECKED	JOSEPH CAMILLO
QUANTITIES	BY		CHECKED	

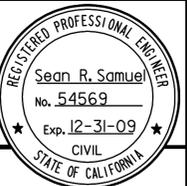
STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF ENGINEERING SERVICES  
 ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE NO.	5505	SHOP 29 FACILITY REMODEL
POST MILE		EVAPORATIVE COOLER
		EVAPORATIVE COOLER PLATFORM PLAN

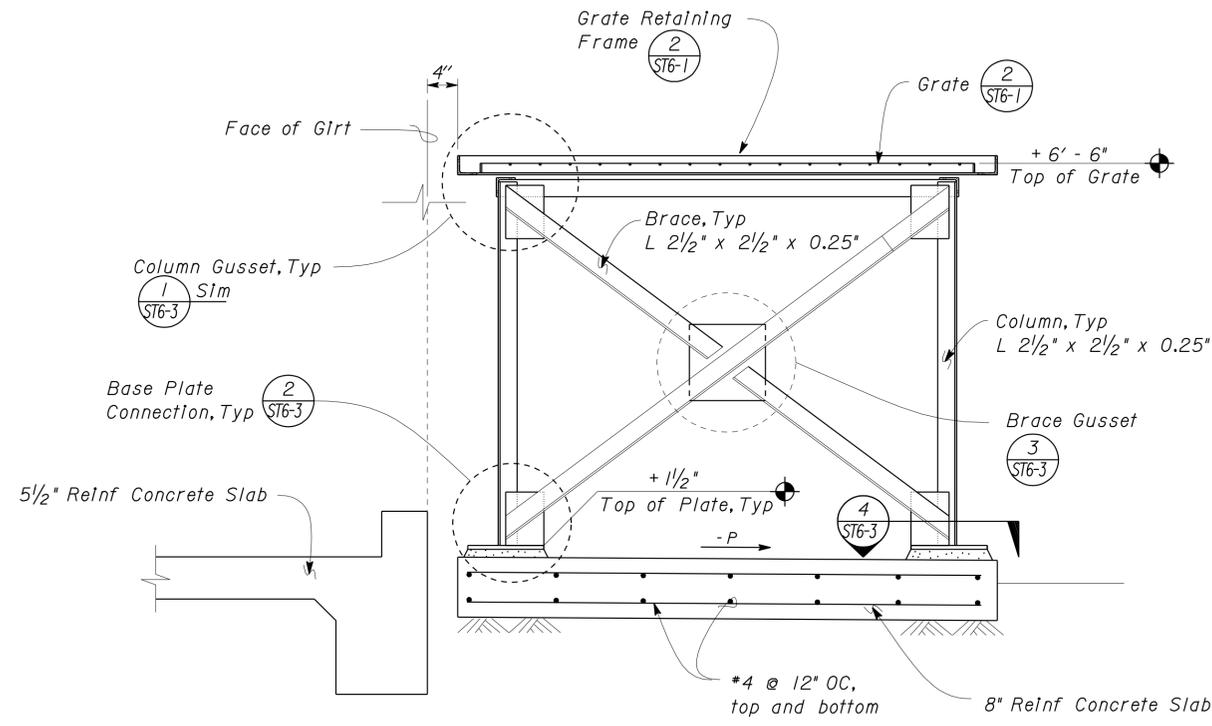
SHEET OF  
**ST6-1**

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		67	102

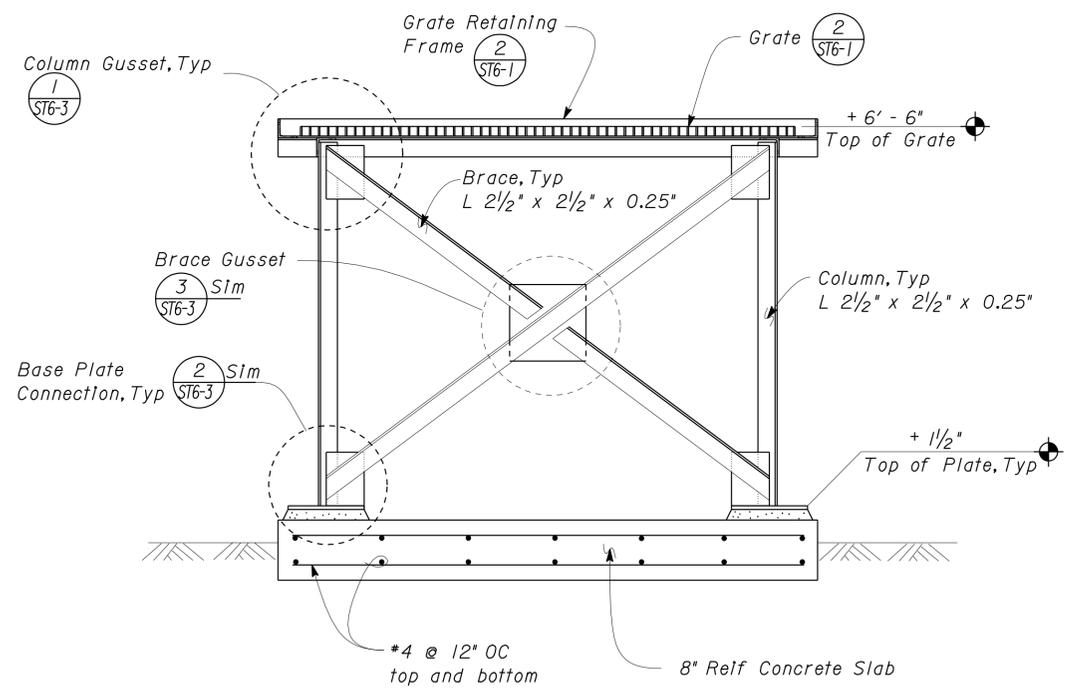
 8-29-08  
 REGISTERED CIVIL ENGINEER DATE



11-17-08  
 PLANS APPROVAL DATE  
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



**1** EVAPORATIVE COOLER PLATFORM  
 No Scale



**2** EVAPORATIVE COOLER PLATFORM  
 No Scale

DESIGN	BY	JUSTIN UYEHARA	CHECKED	JOSEPH CAMILLO
DETAILS	BY	JUSTIN UYEHARA	CHECKED	JOSEPH CAMILLO
QUANTITIES	BY		CHECKED	

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

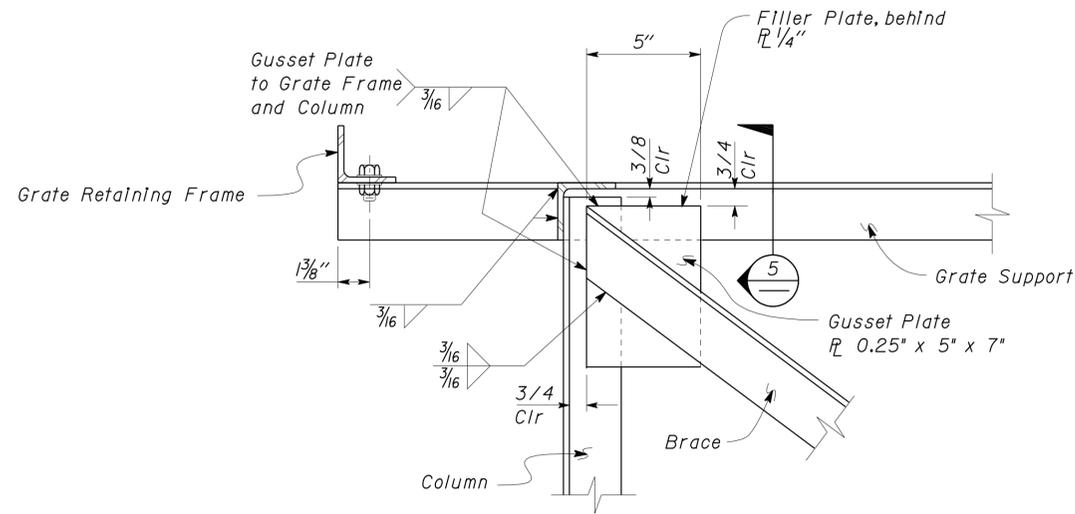
BRIDGE NO.	5505	SHOP 29 FACILITY REMODEL
POST MILE		EVAPORATIVE COOLER
		EVAPORATIVE COOLER PLATFORM SECTIONS

SHEET OF  
**ST6-2**

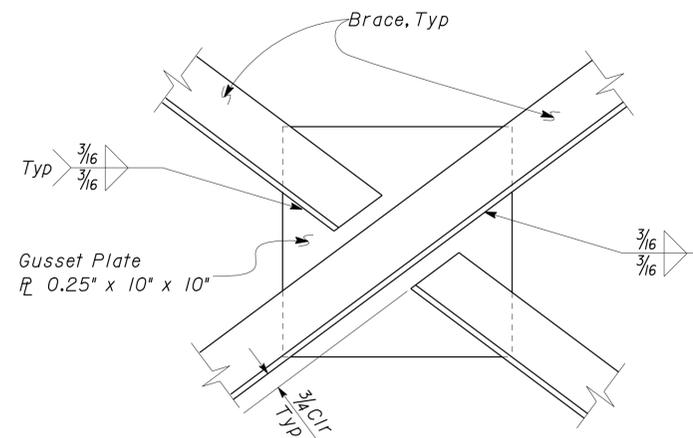
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		68	102

Sean Samuel  
 REGISTERED CIVIL ENGINEER  
 DATE 8-29-08  
 No. 54569  
 Exp. 12-31-09  
 CIVIL  
 STATE OF CALIFORNIA

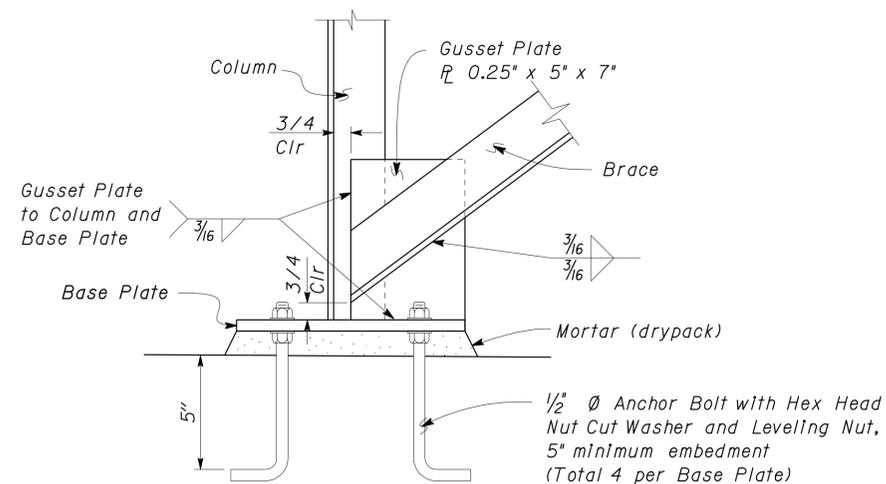
11-17-08  
 PLANS APPROVAL DATE  
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



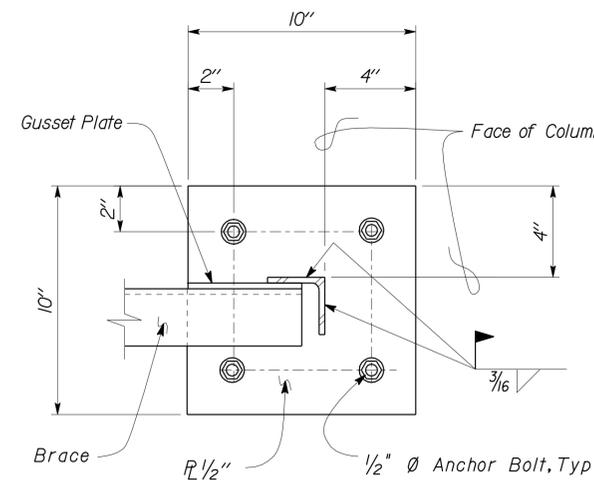
**1 GRATE FRAME CONNECTION**  
Scale 3" = 1' - 0"



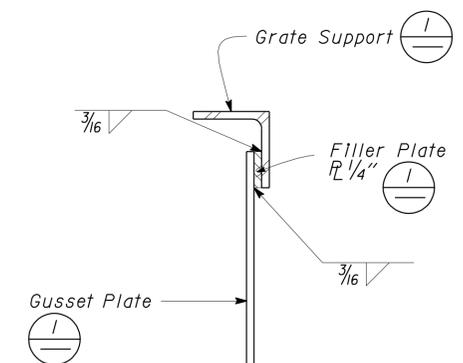
**3 BRACE INTERSECTION**  
Scale 3" = 1' - 0"



**2 BASE PLATE CONNECTION**  
Scale 3" = 1' - 0"



**4 BASE PLATE DETAIL**  
Scale 3" = 1' - 0"



**5 FILLER PLATE DETAIL**  
Scale 4" = 1' - 0"

DESIGN	BY	JUSTIN UYEHARA	CHECKED	JOSEPH CAMILLO
DETAILS	BY	JUSTIN UYEHARA	CHECKED	JOSEPH CAMILLO
QUANTITIES	BY		CHECKED	

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES  
 ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE NO. 5505  
 POST MILE

**SHOP 29 FACILITY REMODEL**  
 EVAPORATIVE COOLER  
 EVAPORATIVE COOLER PLATFORM DETAILS

SHEET ST6-3 OF

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		69	102

**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: 11/12/08

Solomon C. Wong 08/29/08  
REGISTERED MECHANICAL ENGINEER DATE

11-17-08  
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.

### PLUMBING

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

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

### HEATING, VENTILATING AND AIR CONDITIONING

- — — — Balance Damper
- — — — Flexible Duct
- EA— — — Exhaust Air
- RA— — — Return Air
- SA— — — Supply Air
- ☐ cfm Exhaust Register
- | or ☐ cfm Return Register
- ← | or ☐ cfm Supply Diffuser
- ⊙ Thermostat
- ⊙ TG Temperature Gage
- ⊙ TS Time Switch
- ▲ Anode Test Station
- ▲ Three Wire Test Station
- ⊙ F Exhaust Fan
- ⊙ FE Fire Extinguisher

### MISCELLANEOUS

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

### MECHANICAL ABBREVIATIONS:

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

DESIGN BY <u>Solomon Wong</u> CHECKED <u>Alvin Kwan</u>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 5505	SHOP 29 FACILITY REMODEL	SHEET M0-0
			POST MILE		
DETAILS BY <u>J.R. Stangl</u> CHECKED <u>Alvin Kwan</u>	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 09123 EA 310601	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
QUANTITIES BY <u>Solomon Wong</u> CHECKED <u>Alvin Kwan</u>	0 1 2 3		4/7/08 6/29/08 8/29/08		

DOES SD Imperial Rev. 1/07

04-JAN-2010 07:21

m0\_0.dgn

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		70	102

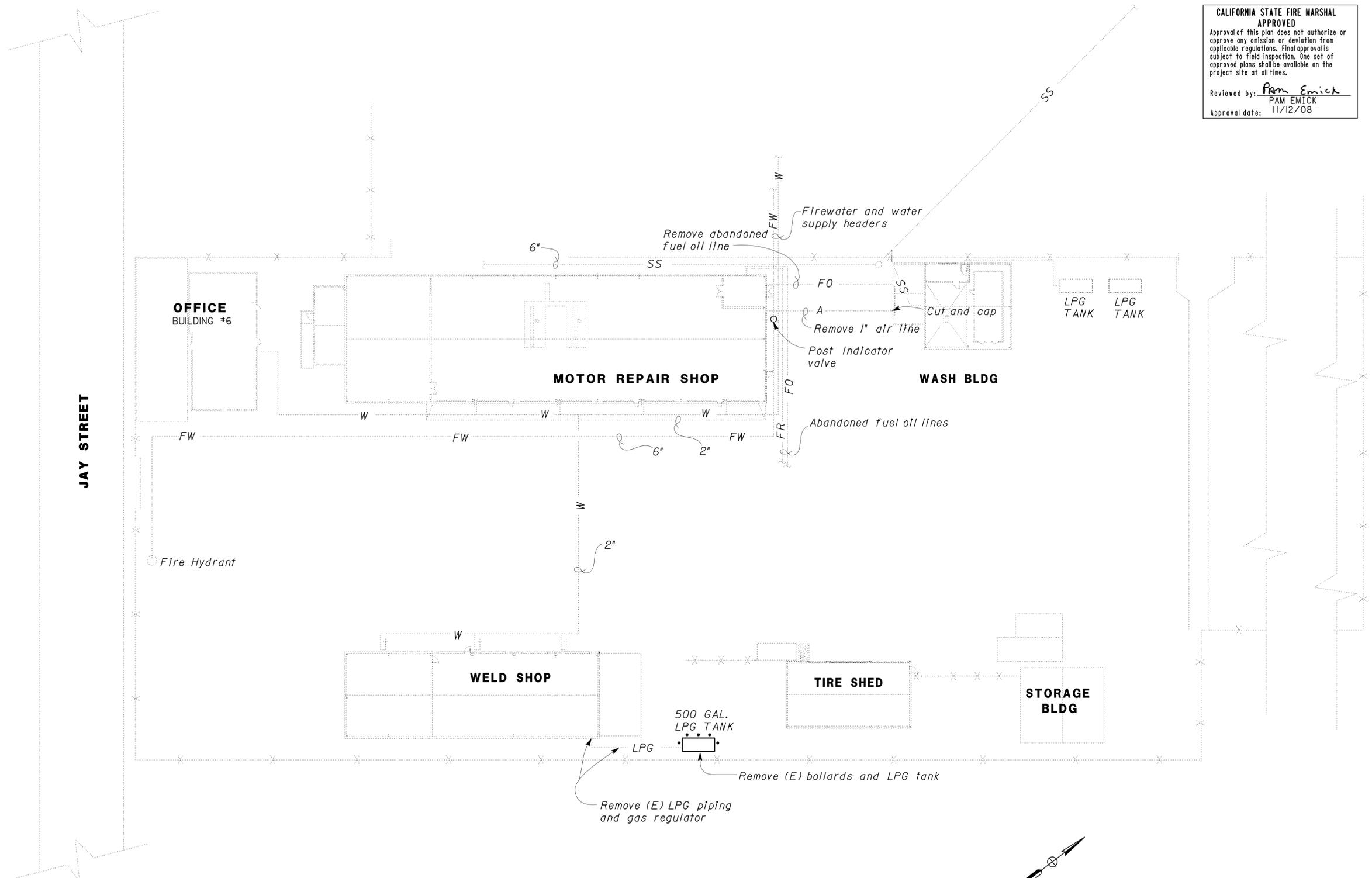
**CALIFORNIA STATE FIRE MARSHAL APPROVED**  
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.  
 Reviewed by: Pam Emick  
 PAM EMICK  
 Approval date: 11/12/08

Solomon C. Wong 08/29/08  
 REGISTERED MECHANICAL ENGINEER DATE  
 11-17-08  
 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.

Note:  
 1. Contractor shall field verify existing site and piping before ordering and fabricating any material.



**EXISTING SITE PLAN**  
 scale: 1"=30'



Paul Schopf  
 DESIGN SUPERVISOR  
Paul Schopf  
 DESIGN ENGINEER

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

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

BRIDGE NO.	5505
POST MILE	

**SHOP 29 FACILITY REMODEL**  
 EXISTING SITE PLAN

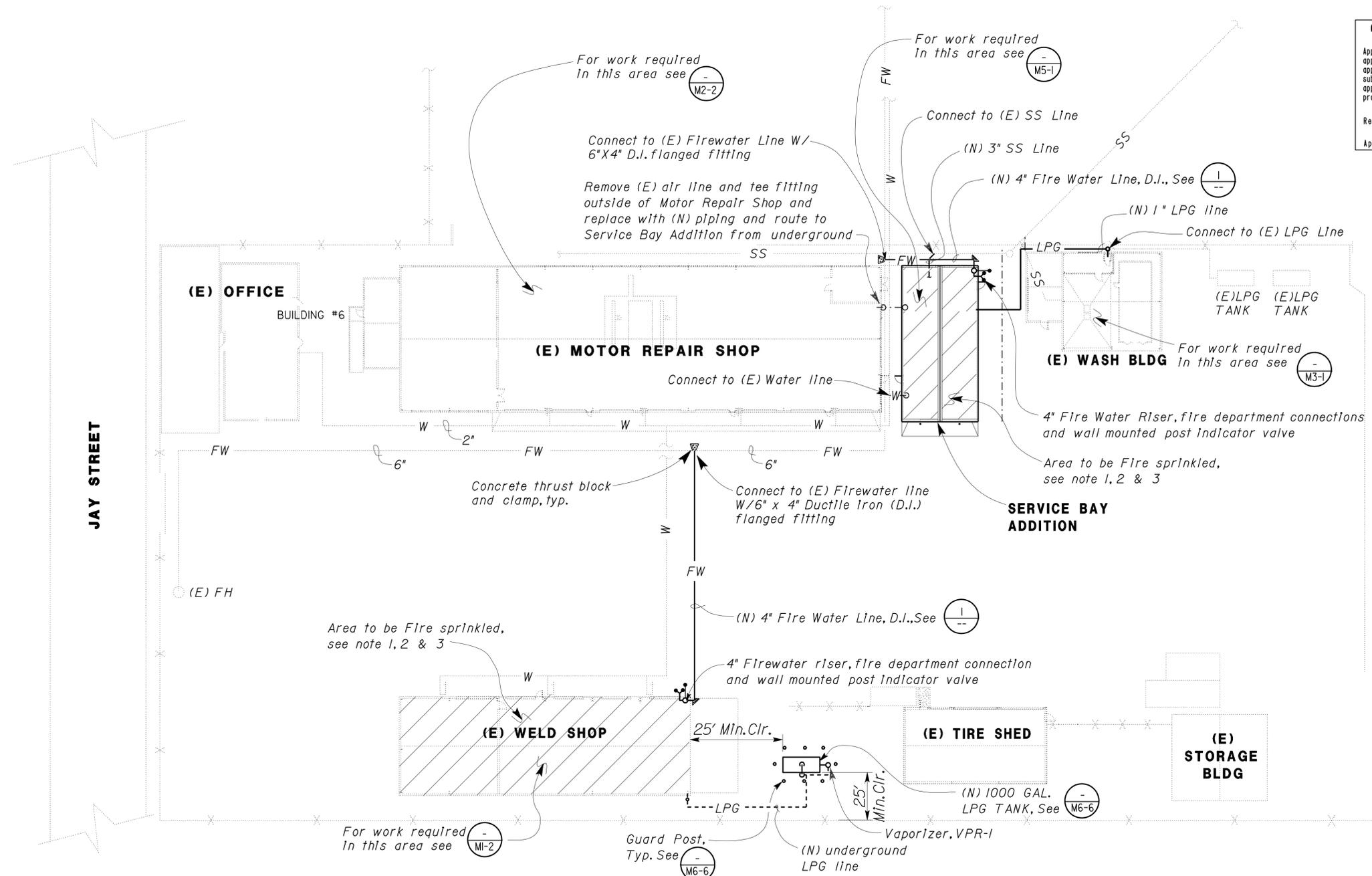
SHEET **M0-1** OF

REVISION DATES (PRELIMINARY STAGE ONLY)			
4/4/08	6/26/08	8/29/08	

**CALIFORNIA STATE FIRE MARSHAL APPROVED**

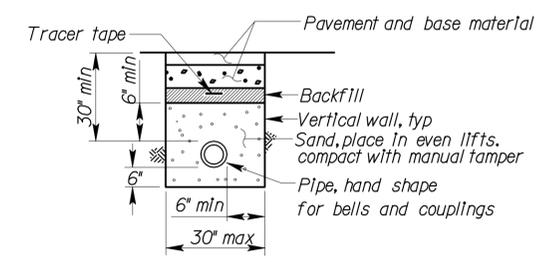
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

Reviewed by: Pam Emick  
PAM EMICK  
Approval date: 11/12/08



- Notes:
- Crossed hatched areas to be fire protected.
  - Contractor shall field verify all utility connections and dimensions before ordering and fabricating any material.
  - The installing contractor shall identify a hydraulically designed sprinkler system with a permanently marked weatherproof metal or rigid plastic sign secured with corrosion-resistance wire, chain, or other approved means. Such signs shall be placed at the alarm valve, or dry pipe valve supplying the corresponding hydraulically designed area. The sign shall include the following information:
    - Location of the design area or areas.
    - Discharge densities over the design area or areas.
    - Required flow and residual pressure demand at the base of riser.
    - Hose stream demand included in addition to the sprinkler demand.
- The automatic fire sprinkler system shall conform to the requirements of the 2007 Edition of the National Fire Protection Association Standard #13.
- Installation of the fire sprinkler system shall not be started until complete plans and specifications (including water supply information and type of existing system, if any) have been approved by the California State Fire Marshal.
- At various stages and upon completion, the system shall be tested in the presence of the California State Fire Marshal.
- The fire service mains and their appurtenances shall conform to the requirements of the 2007 edition of the National Fire Protection Association standard #24.
  - All post indicator valves shall be pad lockable with tamper proof protection.

REQUIRED FIRE WATER THRUST BLOCK BEARING AREA- TOTAL SQUARE FOOT				
TYPE OF FITTING	90° BEND	45° BEND	11-1/4" BEND 22-1/2" BEND	TEE OR DEAD END
4"	2.2	1.1	1.1	2.2
6"	4.3	2.2	1.1	3.2
8"	7.5	4.3	2.2	5.4
10"	11.8	6.5	3.2	8.6



DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		72	102

*Solomon C. Wong* 08/29/08  
 REGISTERED MECHANICAL ENGINEER DATE

11-17-08  
 PLANS APPROVAL DATE

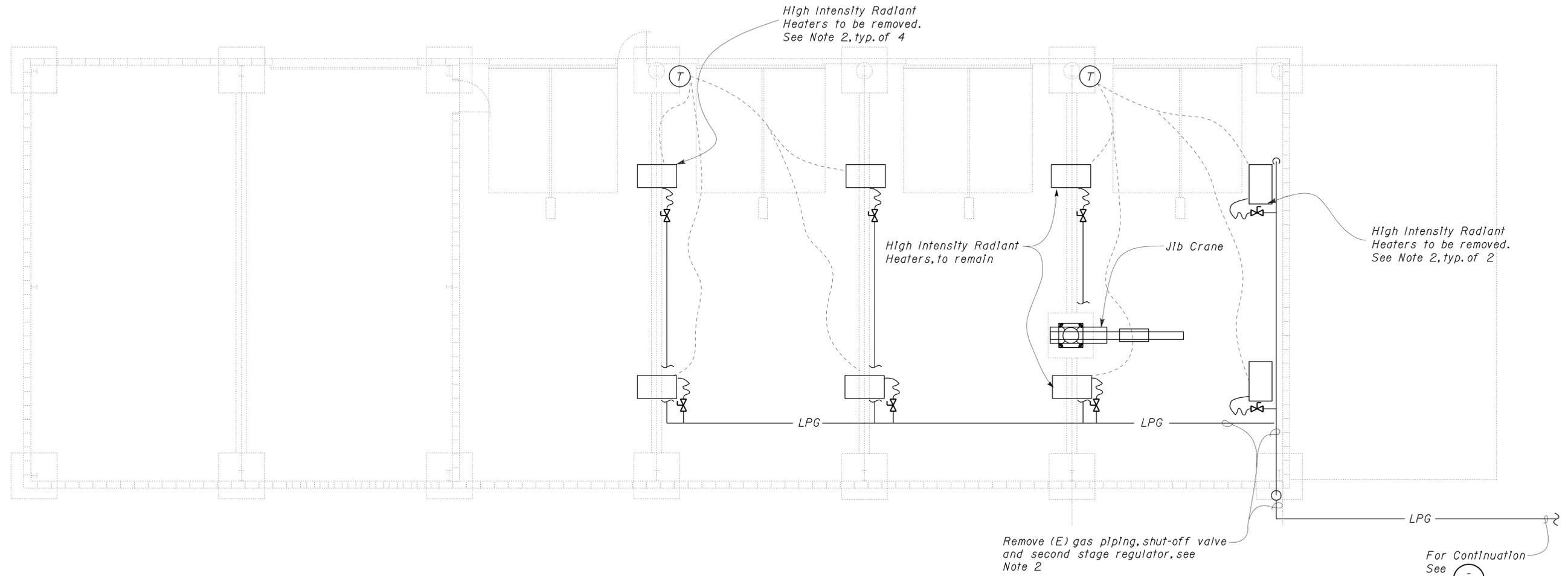
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



**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: 11/12/08

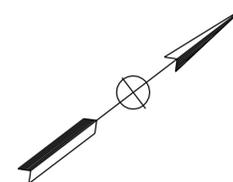
Notes:

- Contractor shall field verify all existing piping and equipment before ordering and fabricating any materials.
- Remove existing high intensity radiant heaters, thermostats, gas piping, wiring and conduits. Replace with new low intensity radiant heaters and install new unit heaters, except otherwise indicated.



**FLOOR PLAN**

$\frac{3}{16}'' = 1'-0''$



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

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO.	5505
POST MILE	

WELDING SHOP

**SHOP 29 FACILITY REMODEL**  
 EXISTING HVAC PLAN

SHEET M1-1 OF



REVISION DATES (PRELIMINARY STAGE ONLY)					
4/4/08	6/20/08	8/29/08			

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		73	102

*Solomon C. Wong* 08/29/08  
REGISTERED MECHANICAL ENGINEER DATE

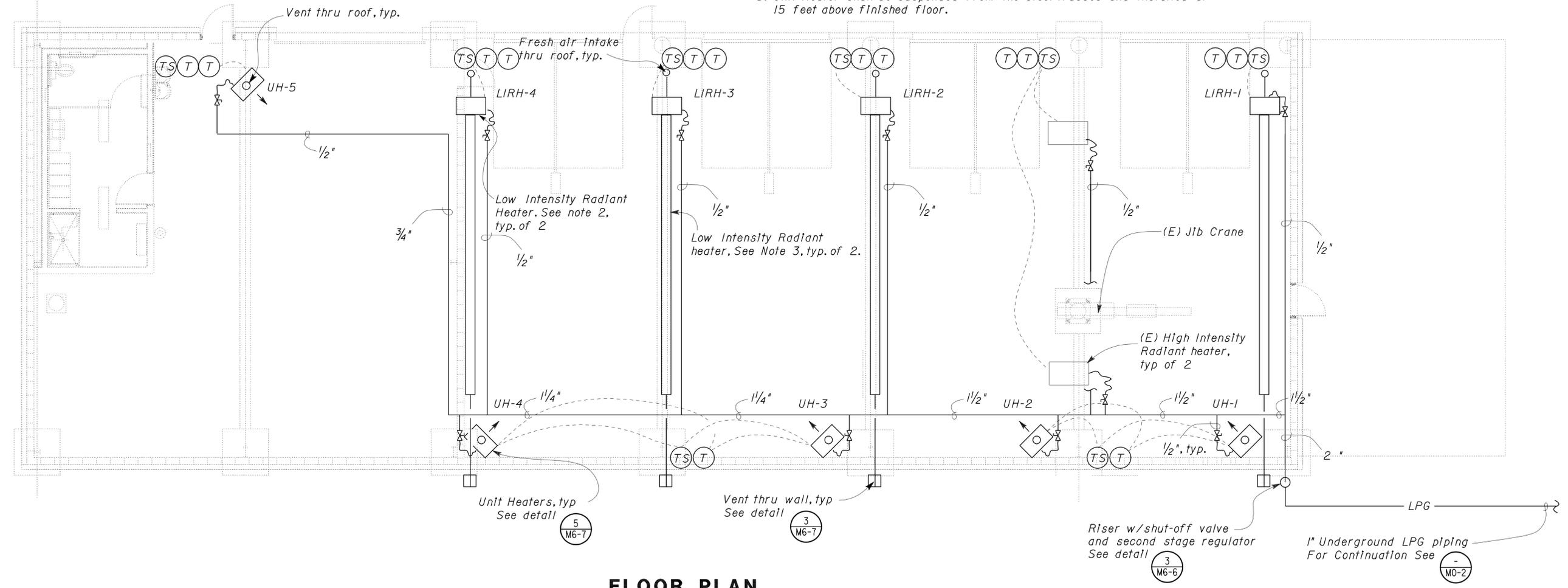
11-17-08  
PLANS APPROVAL DATE

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.



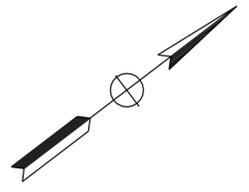
**CALIFORNIA STATE FIRE MARSHAL APPROVED**  
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.  
Reviewed by: *Pam Emick*  
PAM EMICK  
Approval date: 11/12/08

- Notes:
- Contractor shall field verify all piping connections and dimensions before ordering and fabricating any material.
  - Low Intensity Radiant heater #1 & #4 shall be wall mounted and installed at 15 ft above finish floor. Reflector shall be installed at 45 degree away from wall. Nominal length of radiant tubing shall be 30 feet.
  - Low Intensity Radiant heater #2 & #3 shall be suspended from the steel trusses and installed at 15ft above finished floor. Nominal length of radiant tubing shall be 30 feet. See details (1) and (2).
  - Install new thermostats and time switches as shown. Provide insulative barrier between thermostat/ time switch and the metal building structure. Mount controls on steel column 5 feet above finished floor.
  - Unit Heater shall be suspended from the steel trusses and installed at 15 feet above finished floor.



**FLOOR PLAN**

3/16" = 1'-0"



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

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO.	5505
POST MILE	

**SHOP 29 FACILITY REMODEL**  
MODIFIED HVAC PLAN

SHEET **M1-2**

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		74	102

*Solomon C. Wong* 08/29/08  
REGISTERED MECHANICAL ENGINEER DATE

11-17-08  
PLANS APPROVAL DATE

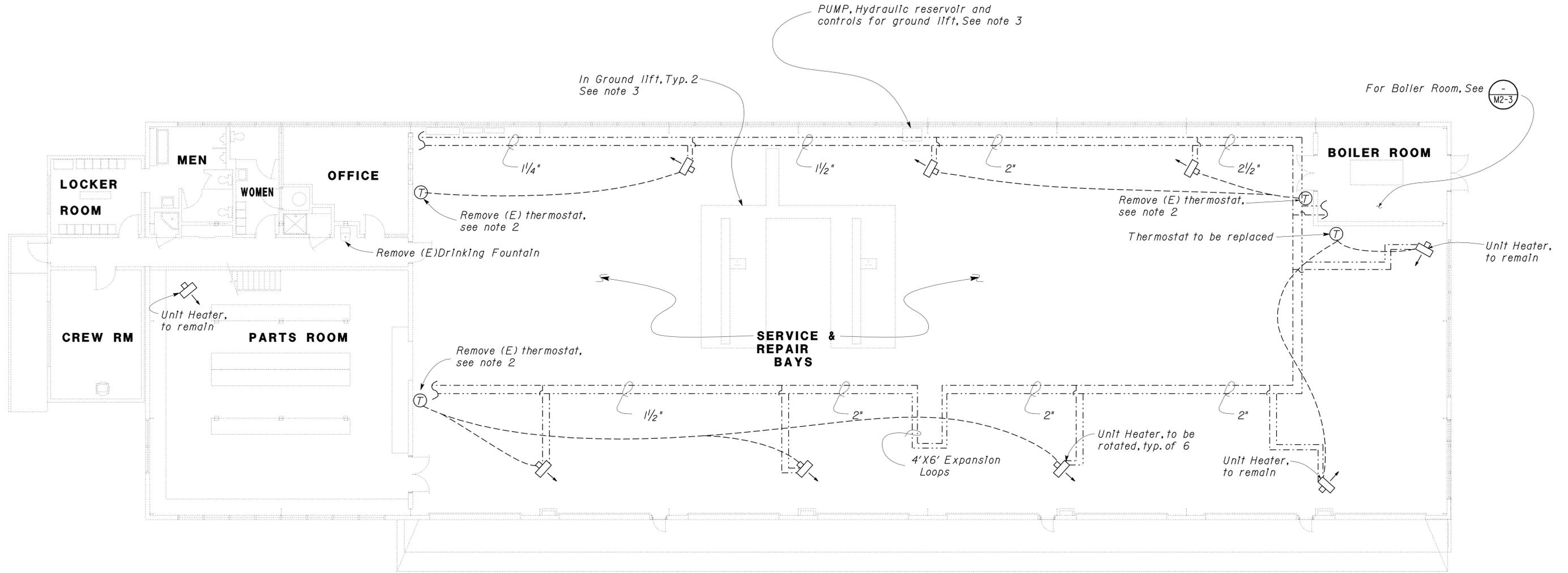
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



**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.

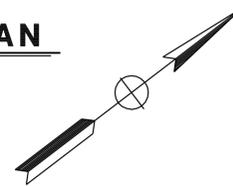
Reviewed by: *Pam Emick*  
PAM EMICK  
Approval date: 11/12/08

- Notes:
1. Contractor shall field verify all existing piping and equipment before ordering and fabricating any materials.
  2. Remove thermostats, wiring, and conduit from all unit heaters located in the Service Bays
  3. Remove in-ground hydraulic vehicle lift system including but not limited to pump, reservoir, piping, controls, post end, cylinder, cover plates and all appurtenances.
  4. Rotate six unit heaters in the Service & Repair Bays.



**MOTOR REPAIR SHOP FLOOR PLAN**

Scale 1/8" = 1'-0"



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

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO.	5505
POST MILE	

SHOP 29 FACILITY REMODEL  
MOTOR REPAIR SHOP  
EXISTING HVAC PLAN

SHEET	M2-1
OF	

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		75	102

*Solomon C. Wong* 08/29/08  
REGISTERED MECHANICAL ENGINEER DATE

11-17-08  
PLANS APPROVAL DATE

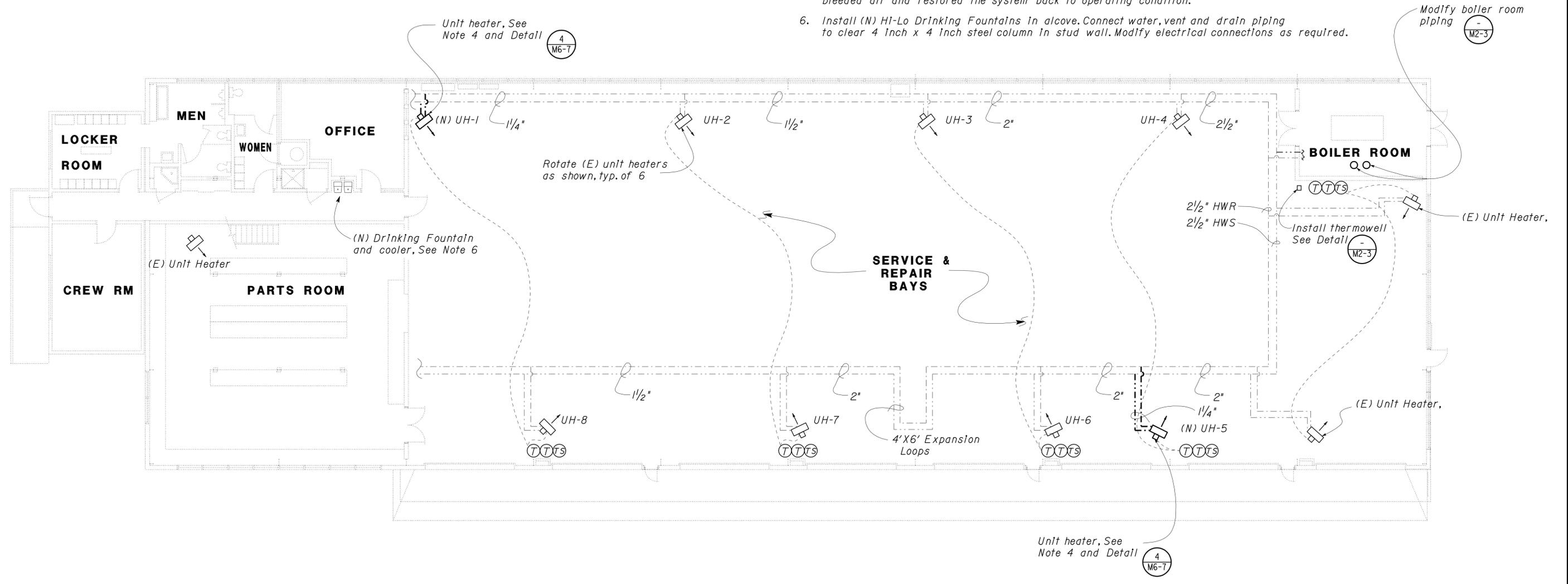
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



**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: 11/12/08

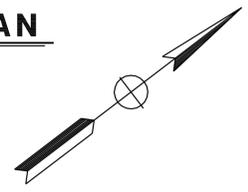
**Notes:**

- Contractor shall field verify all existing piping and equipment before ordering and fabricating any materials.
- Rotate (E) unit heaters UH-2, 3, 4, 6, 7 and 8 facing inside of Service Repair Bays, as shown or as directed by the Engineer. Modify and reconnect water piping, electrical wirings, conduits and supports to suit.
- Install new thermostats and time switches located in the Service & Repair Bays as shown. Provide insulative barrier between thermostat/time switch and the metal building structure. Mount controls on steel column 5 feet above finished floor.
- UH-1 and UH-5, shall have the same capacity, installed and functioned to match existing unit heaters.
- Upon complete installation of UH-1 and UH-5, all unit heaters, and supply and return water piping shall be primed, refilled with water, bled air and restored the system back to operating condition.
- Install (N) Hi-Lo Drinking Fountains in alcove. Connect water, vent and drain piping to clear 4 inch x 4 inch steel column in stud wall. Modify electrical connections as required.



**MOTOR REPAIR SHOP FLOOR PLAN**

Scale 1/8" = 1'-0"



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

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO.	5505	SHOP 29 FACILITY REMODEL	MOTOR REPAIR SHOP	MODIFIED HVAC PLAN	SHEET M2-2
POST MILE					

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		76	102

*Solomon C. Wong* 08/29/08  
REGISTERED MECHANICAL ENGINEER DATE

11-17-08  
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.

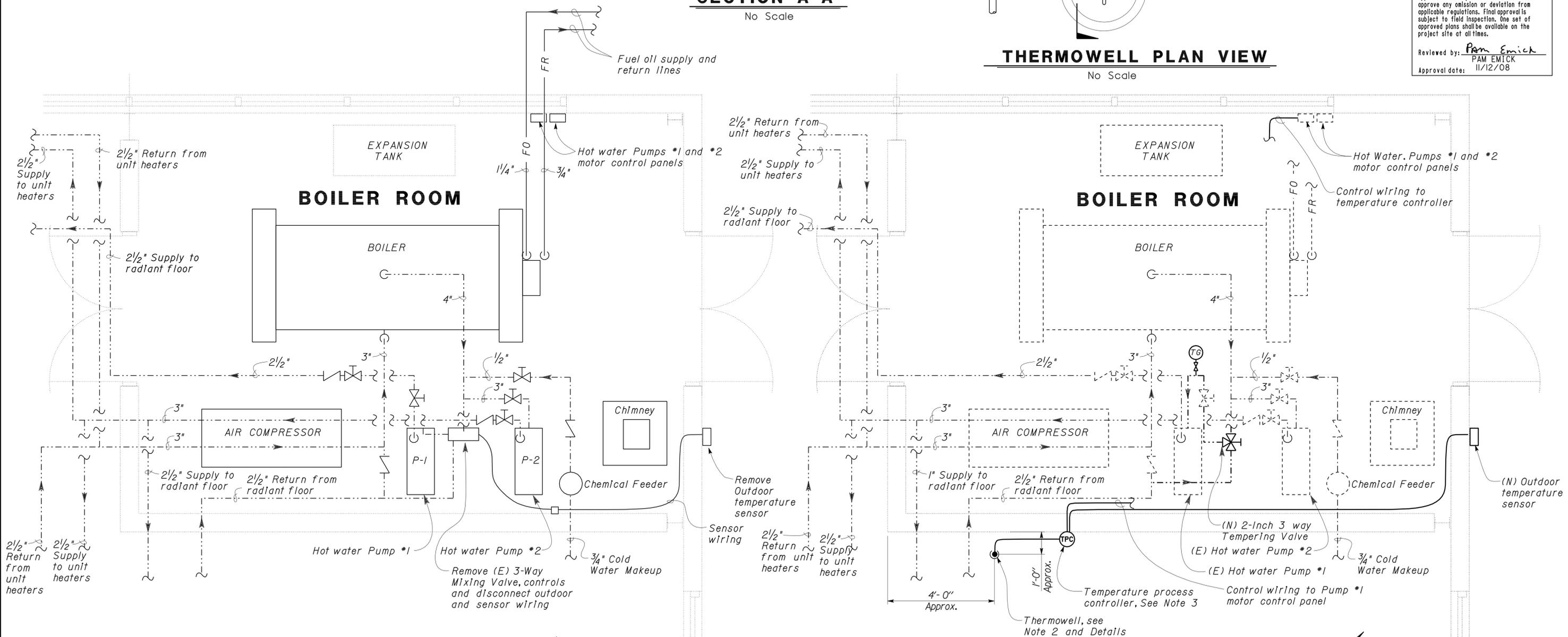
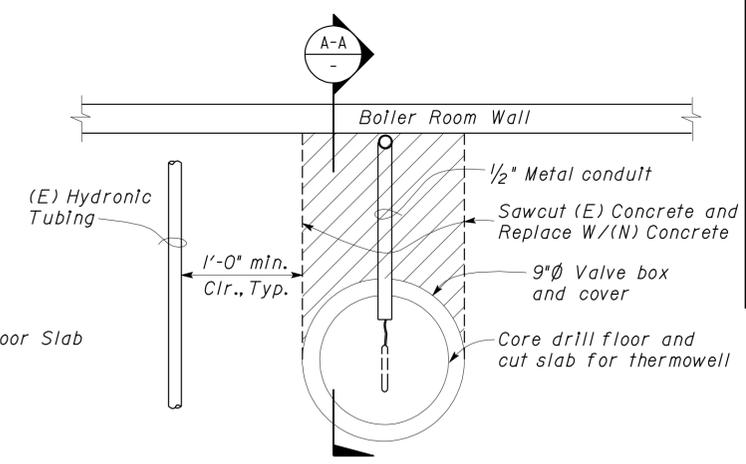
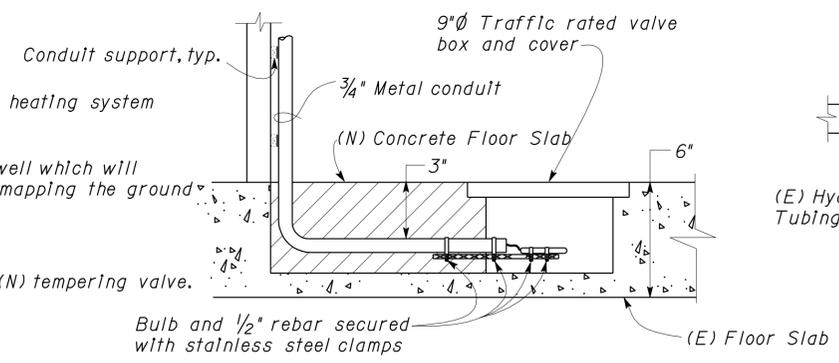


**CALIFORNIA STATE FIRE MARSHAL APPROVED**

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: 11/12/08

- Notes:
- Contractor shall field verify all piping, sizes, location and water flow to radiant floor heating system and unit heaters before ordering and fabricating any materials.
  - Contractor is responsible to locate an optimum temperature zone to install the thermowell which will represent the average floor temperature, during the heating season, by measuring and mapping the ground temperatures while the radiant floor system is in operation.
  - Install Temperature Process Controller 5 feet above the finished floor.
  - Modify the existing supply, return and tempered water piping as required to suit the (N) tempering valve.



**EXISTING BOILER ROOM PLAN**  
1/2" = 1'-0"

**MODIFIED BOILER ROOM PLAN**  
1/2" = 1'-0"

DESIGN	BY	Solomon Wong	CHECKED	Alvin Kwan	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	5505	SHOP 29 FACILITY REMODEL BOILER ROOM MODIFICATIONS	SHEET M2-3		
	DETAILS	BY	J.R. Stangl	CHECKED			Alvin Kwan	POST MILE				
	QUANTITIES	BY	Solomon Wong	CHECKED			Alvin Kwan					
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0	1	2	3	CU 09123 EA 310601	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	Iny	5505		77	102

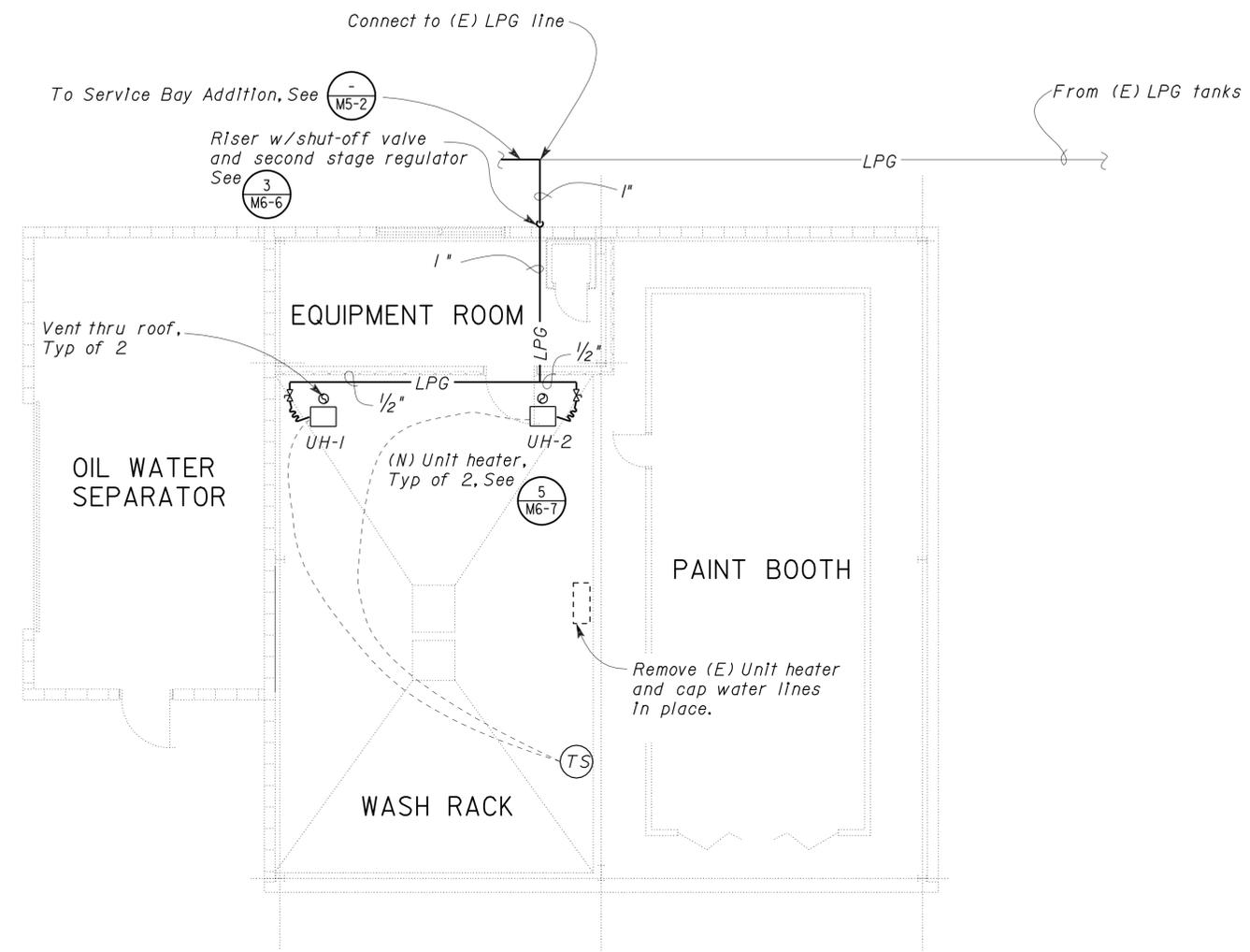
**CALIFORNIA STATE FIRE MARSHAL APPROVED**  
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.  
 Reviewed by: Pam Emick  
 PAM EMICK  
 Approval date: 11/12/08

Solomon C. Wong 08/29/08  
 REGISTERED MECHANICAL ENGINEER DATE



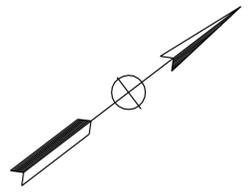
11-17-08  
 PLANS APPROVAL DATE

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.



- Notes:
- Contractor shall field verify (E) site equipment and LPG piping and connections before ordering and fabricating any material.
  - Unit Heaters shall be supported from the steel trusses and installed at 15 feet above finished floor.

**FLOOR PLAN**  
 $\frac{3}{16}'' = 1'-0''$



DESIGN	BY	Solomon Wong	CHECKED	Alvin Kwan	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	5505	SHOP 29 FACILITY REMODEL HEATER PLAN	SHEET M3-1	
	DETAILS	BY	J.R. Stangl	CHECKED			Alvin Kwan	POST MILE			WASH RACK BUILDING
	QUANTITIES	BY	Solomon Wong	CHECKED			Alvin Kwan	REVISION DATES (PRELIMINARY STAGE ONLY)			4/4/08 6/20/08 8/29/08
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0 1 2 3	CU 09123 EA 310601	DISREGARD PRINTS BEARING EARLIER REVISION DATES			SHEET OF	

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		78	102

*Solomon C. Wong* 08/29/08  
REGISTERED MECHANICAL ENGINEER DATE

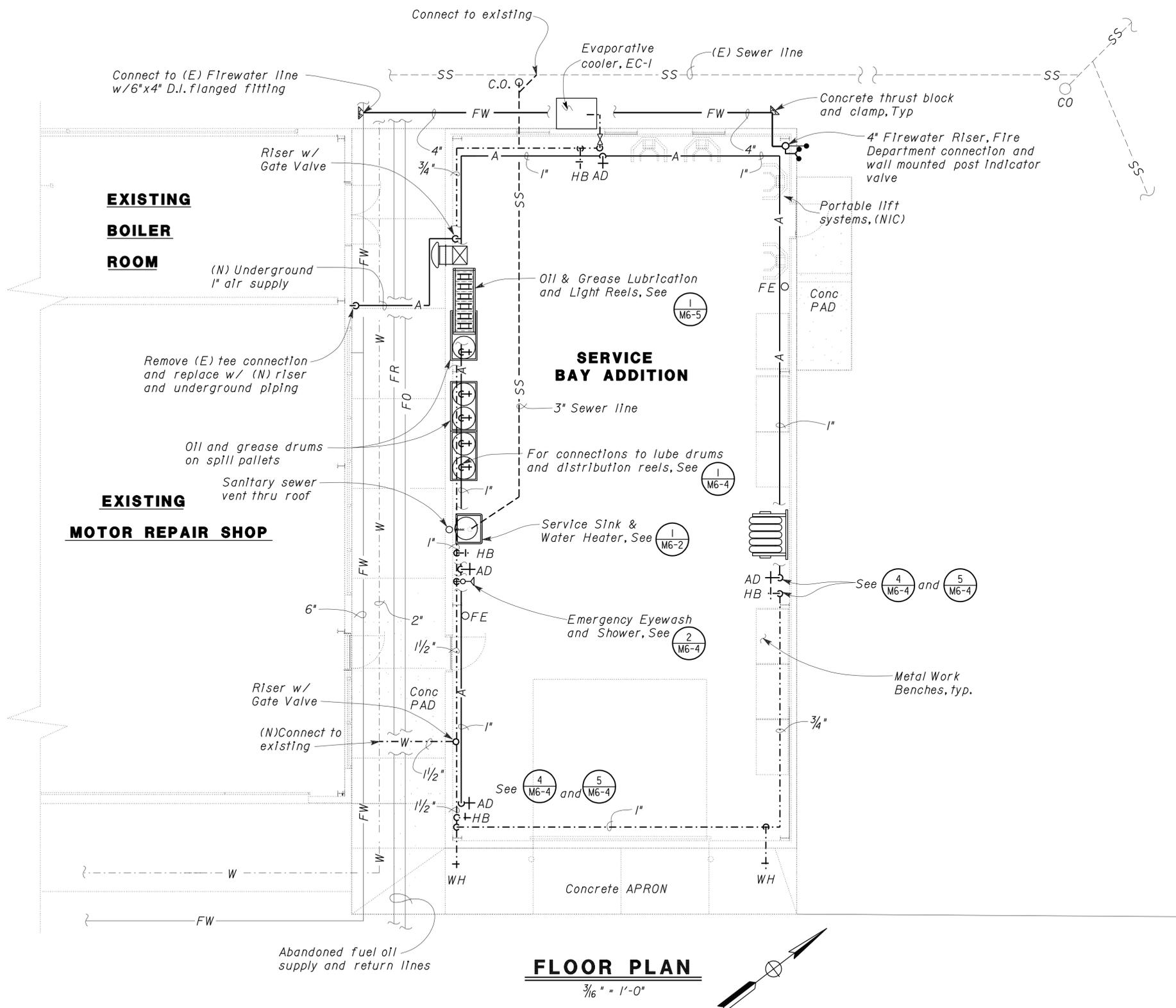
11-17-08  
PLANS APPROVAL DATE

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: 11/12/08



Notes:  
1. Route and support all air, water and gas line headers under roof trusses.  
2. Light reel shall be approved for class I, group D locations.

**FLOOR PLAN**  
3/16" = 1'-0"

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

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO. 5505  
POST MILE

SHOP 29 FACILITY REMODEL  
SERVICE BAY ADDITION  
PIPING PLAN

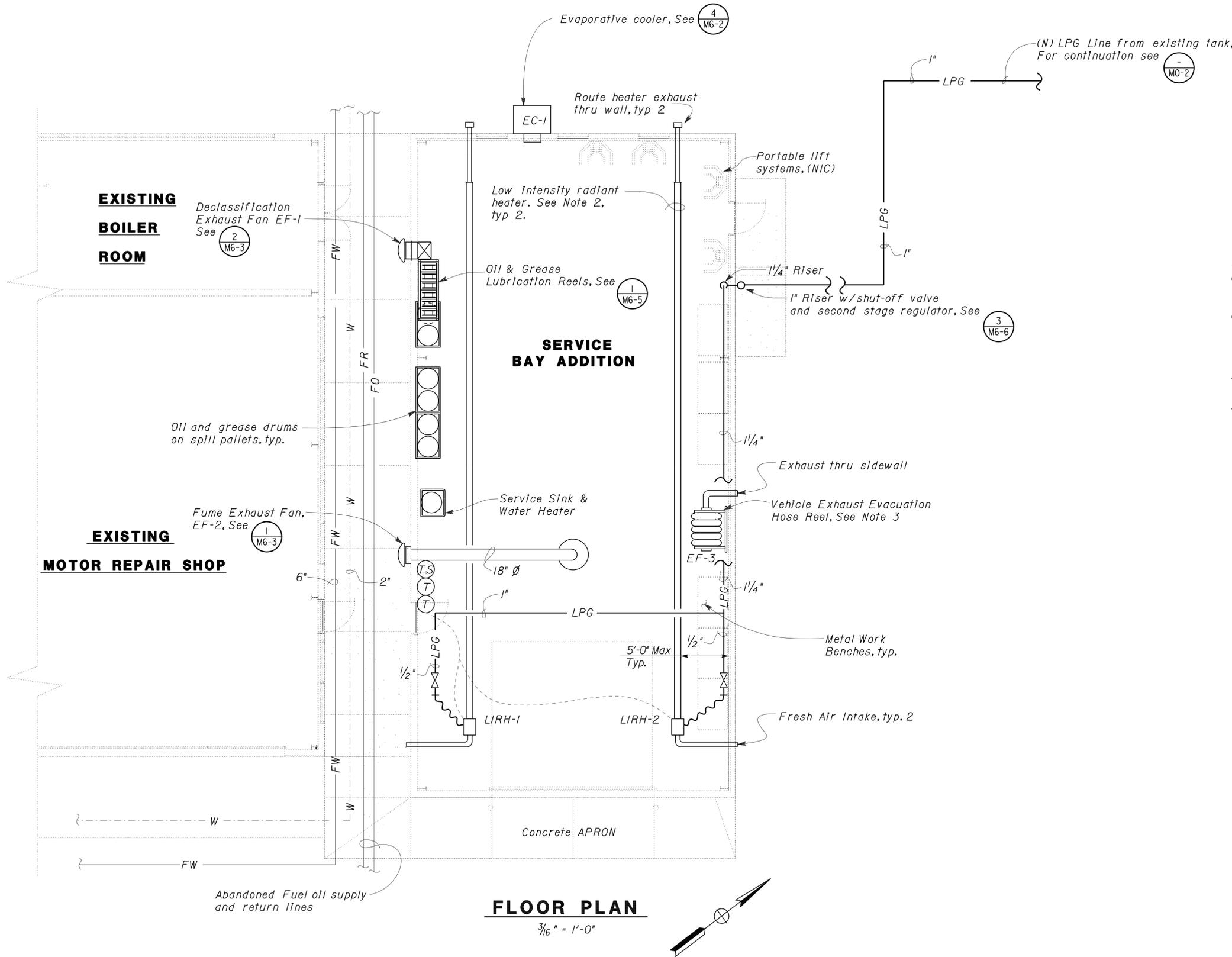
SHEET M5-1 OF

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		79	102

*Solomon C. Wong* 08/29/08  
REGISTERED MECHANICAL ENGINEER DATE

11-17-08  
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.



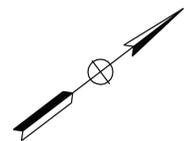
- Notes:
- Route and support all air, water and gas line headers under roof trusses.
  - Low Intensity Radiant Heater shall be suspended from the steel trusses and installed at 15 feet above finished floor in accordance with the manufacturer's recommendations. Normal length of tubing to be 50 feet.
  - Mount exhaust evacuation hose reel and fan in accordance with the manufacturer's instructions at 18 feet above finished floor.
  - For location of Fans and Evaporative Cooler, See Architectural sheets

**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: 11/12/08

**FLOOR PLAN**  
3/16" = 1'-0"



DESIGN BY <i>Solomon Wong</i> CHECKED <i>Alvin Kwan</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 5505	SHOP 29 FACILITY REMODEL		SHEET M5-2
			POST MILE	SERVICE BAY ADDITION	OF	
			HVAC PLAN			
DETAILS BY <i>J.R. Stangl</i> CHECKED <i>Alvin Kwan</i>	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 09123 EA 310601	DISREGARD PRINTS BEARING EARLIER REVISION DATES			SHEET OF
QUANTITIES BY <i>Solomon Wong</i> CHECKED <i>Alvin Kwan</i>	0 1 2 3		REVISION DATES (PRELIMINARY STAGE ONLY)			
			4/2/08	4/7/08	6/26/08	8/29/08

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		80	102

*Solomon C. Wong* 08/29/08  
 REGISTERED MECHANICAL ENGINEER DATE

11-17-08  
 PLANS APPROVAL DATE

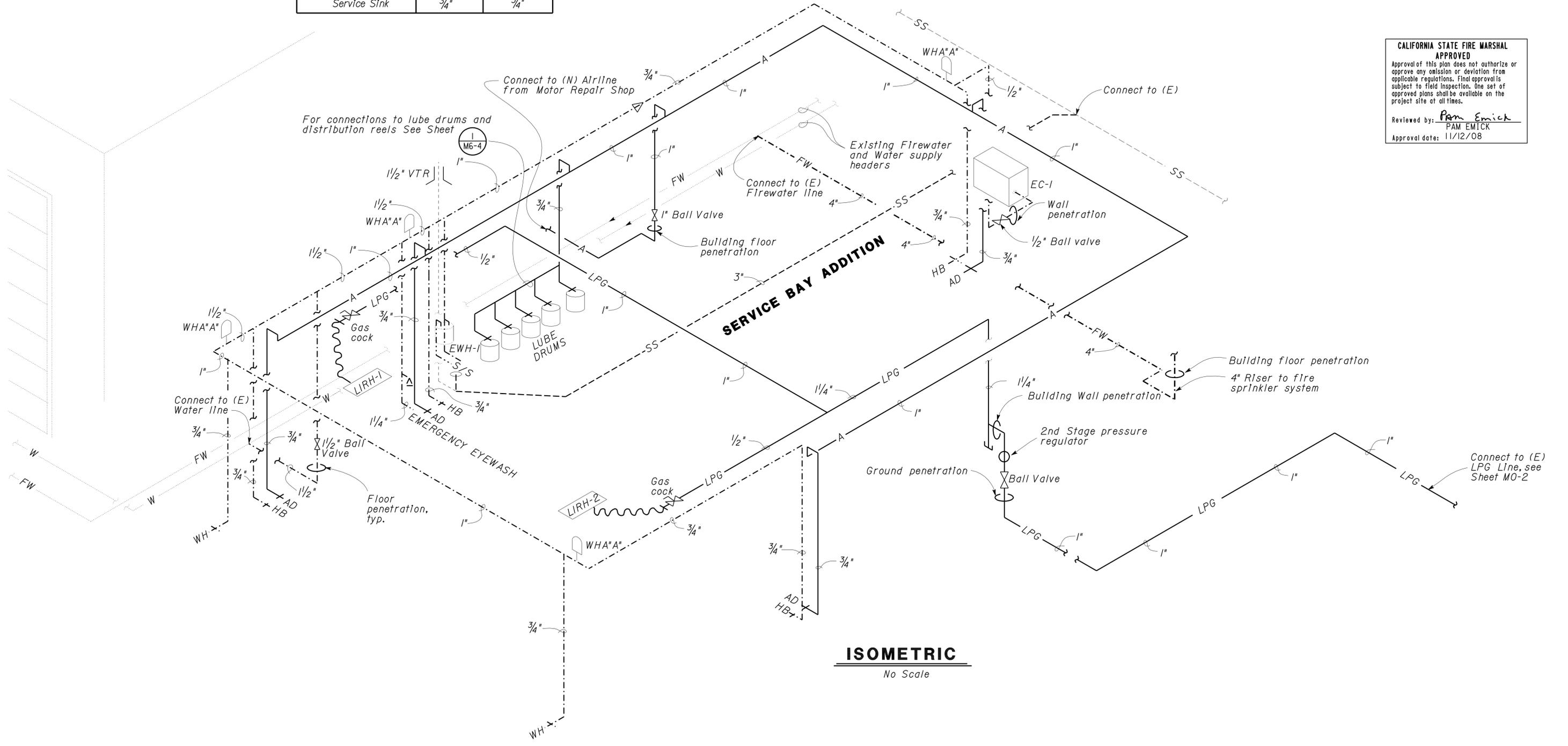
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



PLUMBING SCHEDULE			
Fixture	Drainage Rough-In	Trap	Vent
Service Sink	3"	3"	1 1/2"

PLUMBING SCHEDULE		
Fixture	Minimum Connection	
	Cold Water	Hot Water
Service Sink	3/4"	3/4"

EXISTING MOTOR REPAIR SHOP



**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: 11/12/08

**ISOMETRIC**  
 No Scale

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

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO.	5505	SHOP 29 FACILITY REMODEL	PIPING SCHEMATIC	SHEET OF M5-3
POST MILE	SERVICE BAY ADDITION			

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		81	102

*Solomon C. Wong* 08/29/08  
 REGISTERED MECHANICAL ENGINEER DATE

Solomon Wong  
 No. M277626  
 Exp. 6-30-09  
 MECH  
 STATE OF CALIFORNIA

11-17-08  
 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.

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
UH-1 UH-5 Motor Repair Shop	UNIT HEATER: WT = 204 lbs, Qty. = 2 Input Capacity : 181,800 Btuh @ 180 °F entering water temp. and 60°F entering air temp. Water temp drop 30.3°F and supply air temp 95.7°F @ 12 GPM Evap. Blower : 4700 cfm @ 0 Inch E.S.P. Unit Electrical : 1/2 HP, 240 V - 3Ph - 60Hz Unit heaters shall be controlled by wall mounted thermostats and time switches (4 hrs dial).	UH-1 UH-2 UH-3 UH-4 UH-5 Welding Shop	UNIT HEATER: WT = 150 lbs, Qty. = 5 Input Capacity : 75,000 Btuh burner, propane gas Evap. Blower : 800 cfm @ 0 Inch E.S.P. Unit Electrical : 1/15 Hp 115 V - 1Ph - 60Hz Unit heaters shall be controlled by wall mounted thermostats and time switches (2 hrs dial).
LURH-1 LURH-2 Service Bay Addition	LOW INTENSITY RADIANT HEATER : WT= 350 lbs. Quantity = 2 Input capacity : 125,000 Btuh burner, propane gas Unit Electrical : 0.07 HP, 115 V - 1 Ph - 60Hz Radiant heaters shall be controlled by wall mount thermostats and time switches (4 hrs dial).	LURH-1 LURH-2 LURH-3 LURH-4 Welding Shop	LOW INTENSITY RADIANT HEATER : WT= 150 lbs. Quantity = 4 Input capacity : 75,000 Btuh burner, propane gas Unit Electrical : 0.07 HP, 115 V - 1 Ph - 60Hz Radiant heaters shall be controlled by wall mount thermostats and time switches (4 hrs dial).
EF-1 Service Bay Addition	EXHAUST FAN (Declassification fan): WT= 110 lbs. Quantity = 1 Air : 2400 cfm @ 0.25 Inch w.g. E.S.P., 21 sones max. Unit Electrical : Explosion Proof motor 0.5HP, 240 V - 3 Ph - 60Hz Provide local disconnect at exhaust fan and backdraft damper. Fan shall be controlled by wall mounted on-off switch.	VPR-1 Adjacent to Welding Shop	LPG VAPORIZER : WT= 90 lbs. Quantity = 1 Unit Electrical : 3.9 kw, 240 V - 1 Ph - 60Hz Vaporizer shall be operating automatically depending on natural vaporization of the LPG tank in meeting with the gas usage.
EF-2 Service Bay Addition	WALL MOUNTED FUME EXHAUST FAN: WT= 65 lbs. Quantity = 1 Air : 2000 cfm @ 0.125 Inch w.g. E.S.P., 19 sones max. Unit Electrical : 0.25HP, 115 V - 1 Ph - 60Hz Provide local disconnect at exhaust fan and motorized damper. Fan and damper shall be controlled by wall mounted on-off switch.	UH-1 UH-2 Washrack	UNIT HEATER : WT= 150 lbs. Quantity = 2 Input capacity : 100,000 Btuh burner, propane gas Unit Electrical : 1/15 HP, 115 V - 1 Ph - 60Hz Evap. Boiler : 1400 CFM @ 0 Inch E.S.P. Unit heaters shall be controlled by wall mount thermostat and time switch (1 hr dial).
EF-3 Service Bay Addition	EXHAUST EVACUATION HOSE REEL AND FAN: WT= 65 lbs. Quantity = 1 Air : 1000 cfm Unit Electrical : 1.0 HP, 240 V - 3 Ph - 60Hz Fan and hose reel shall be controlled by a remote operated 3 button (fan on-off, up, down) control switch.		
EC-1 Service Bay Addition	EVAPORATIVE COOLER : Quantity = 1 Air : 5,000 cfm @ 0.25 Inch w.g. E.S.P. Unit Electrical : 1.0 HP, 240 V - 3 Ph - 60Hz Evaporative cooler shall be horizontal discharge unit and controller by a wall mounted selective switch.		
EWH-1 Service Bay Addition	ELECTRIC WATER HEATER: WT= 50 lbs. Quantity = 1 Capacity : 6 Gallons Unit Input : 1650 Watts 115 V - 1 ph - 60 Hz		

**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: 11/12/08

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

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO. 5505  
 POST MILE

**SHOP 29 FACILITY REMODEL**  
 EQUIPMENT LIST

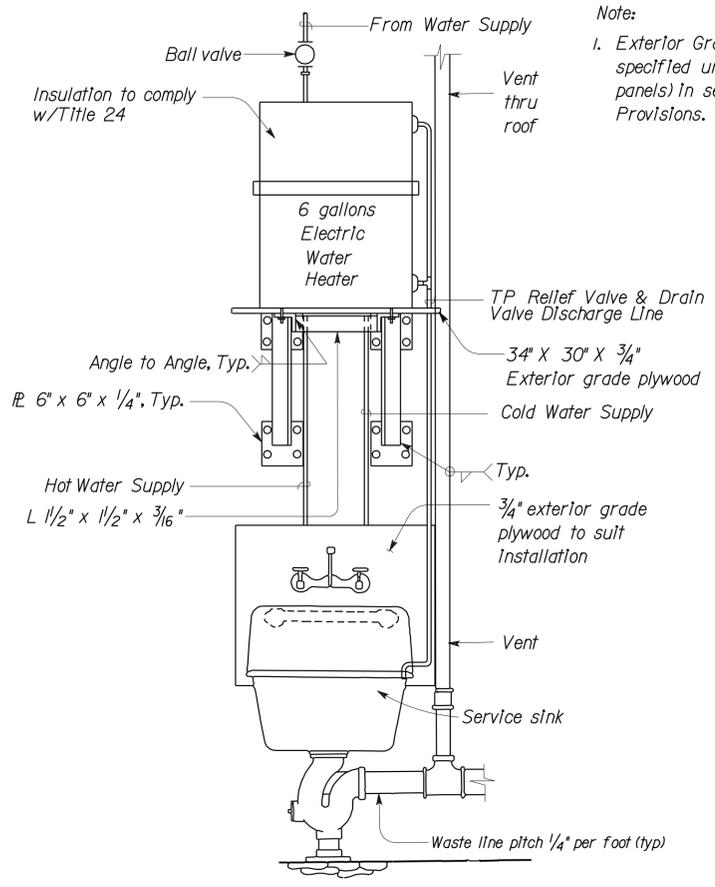
SHEET **M6-1** OF

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		82	102

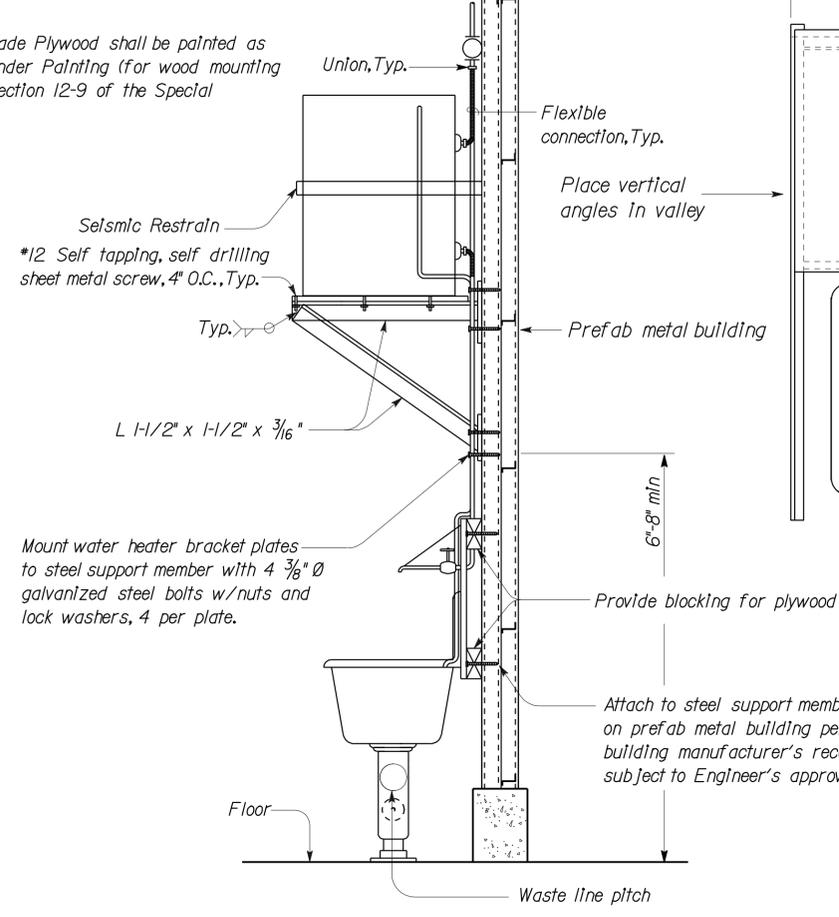
<i>Solomon C. Wong</i> 08/29/08 REGISTERED MECHANICAL ENGINEER DATE		
11-17-08 PLANS APPROVAL DATE		

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.

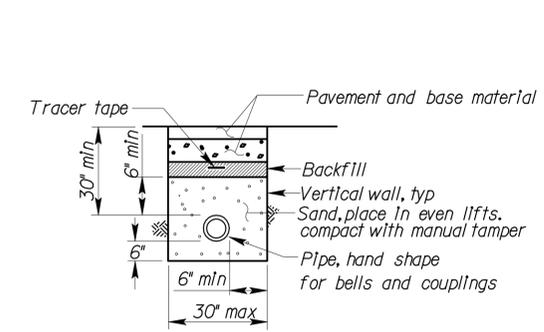


**FRONT VIEW**

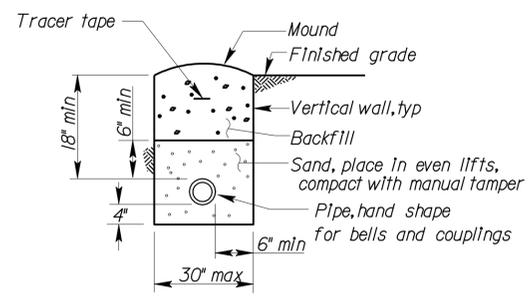
**1 SERVICE SINK**  
NO SCALE



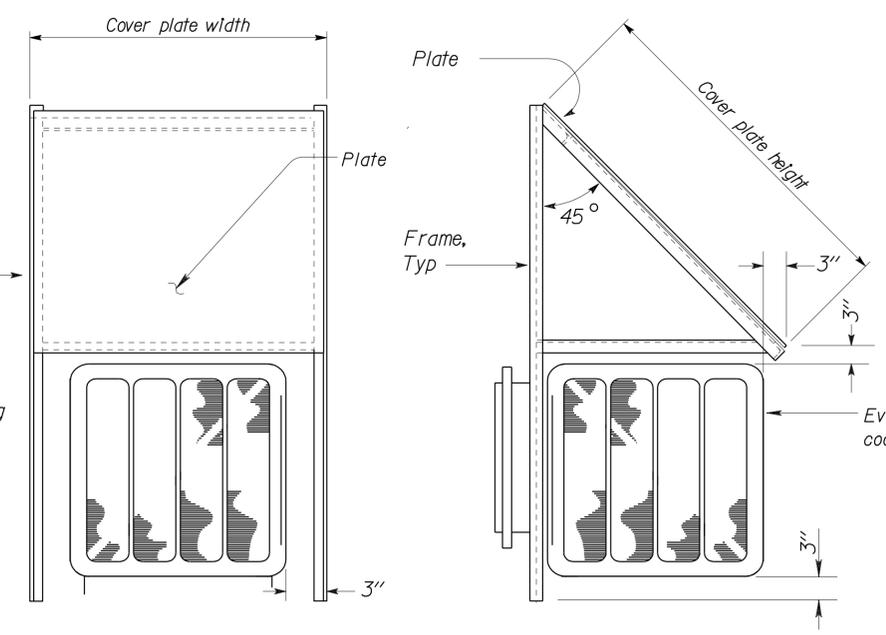
**SIDE VIEW**



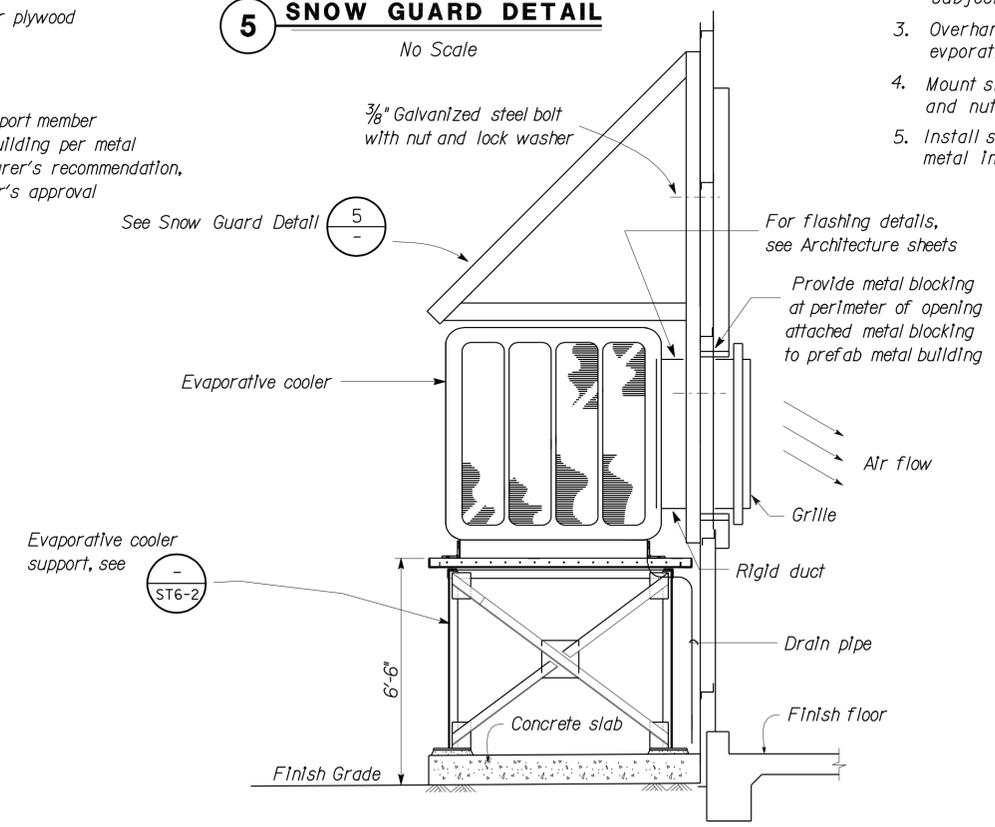
**2 BURIED PIPE UNDER PAVEMENT**  
No Scale



**3 BURIED PIPE**  
No Scale



**5 SNOW GUARD DETAIL**  
No Scale



**4 EVAPORATIVE COOLER**  
No Scale

- Notes:
- Overhang Frame Shall Be Galvanized Steel, L 2" x 2" x 1/4", all welded construction.
  - Plate shall be Galvanized Steel, 12 gage, bolted to frame with 3/8" bolts and locknuts on 6" centers. Frame shall be bolted to building with 3/8" bolts and locknuts on 6" centers, subject to Engineer's approval.
  - Overhang size shall be suitable for the evaporative cooler installed.
  - Mount snow guard to building wall with 3/8" Bolt and nut. Install at 6" O.C. MAX.
  - Install sheet metal screen frame and 1/2" expanded metal inlet duct screen.

**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: 11/12/08

DOES SD Imperial Rev. 1/07	DESIGN	BY <i>Solomon Wong</i>	CHECKED <i>Alvin Kwan</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	5505	SHOP 29 FACILITY REMODEL MECHANICAL DETAILS I	SHEET M6-2	
	DETAILS	BY <i>J.R. Stangl</i>	CHECKED <i>Alvin Kwan</i>			POST MILE				
	QUANTITIES	BY <i>Solomon Wong</i>	CHECKED <i>Alvin Kwan</i>							
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3	CU 09123 EA 310601	REVISION DATES (PRELIMINARY STAGE ONLY)			SHEET OF
						DISREGARD PRINTS BEARING EARLIER REVISION DATES			4/8/08 6/20/08 8/29/08	

04-JAN-2010 07:24  
m6\_2.dgn

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		83	102

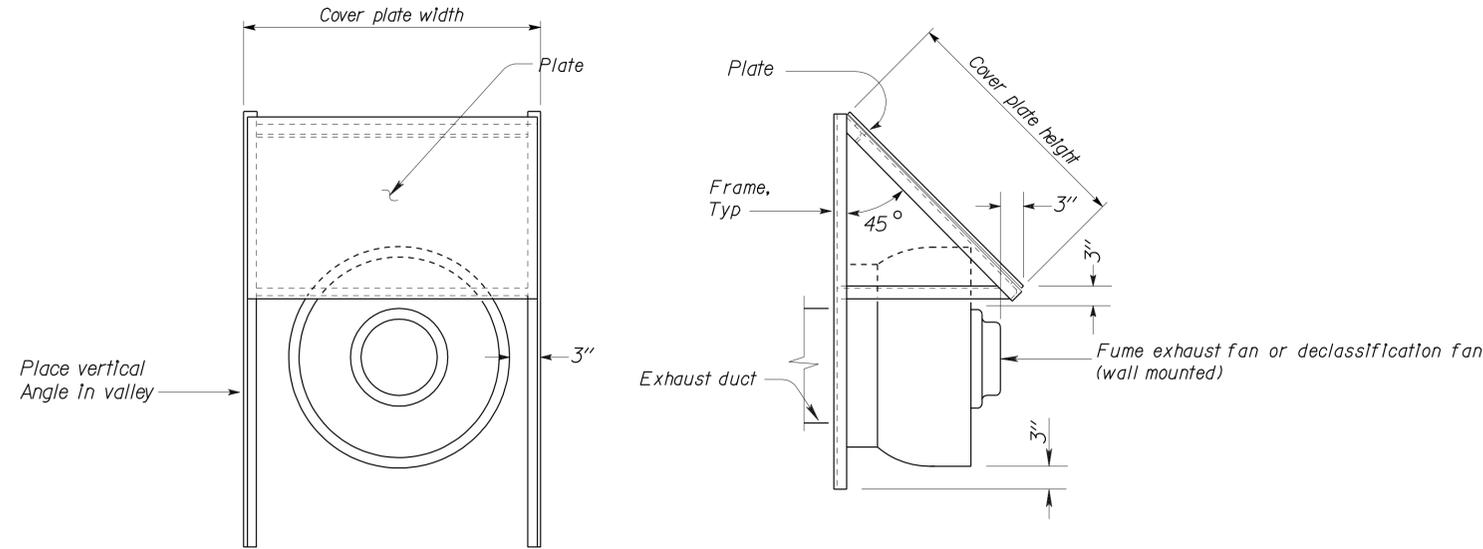
Solomon C. Wong 08/29/08  
 REGISTERED MECHANICAL ENGINEER DATE



11-17-08  
 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.

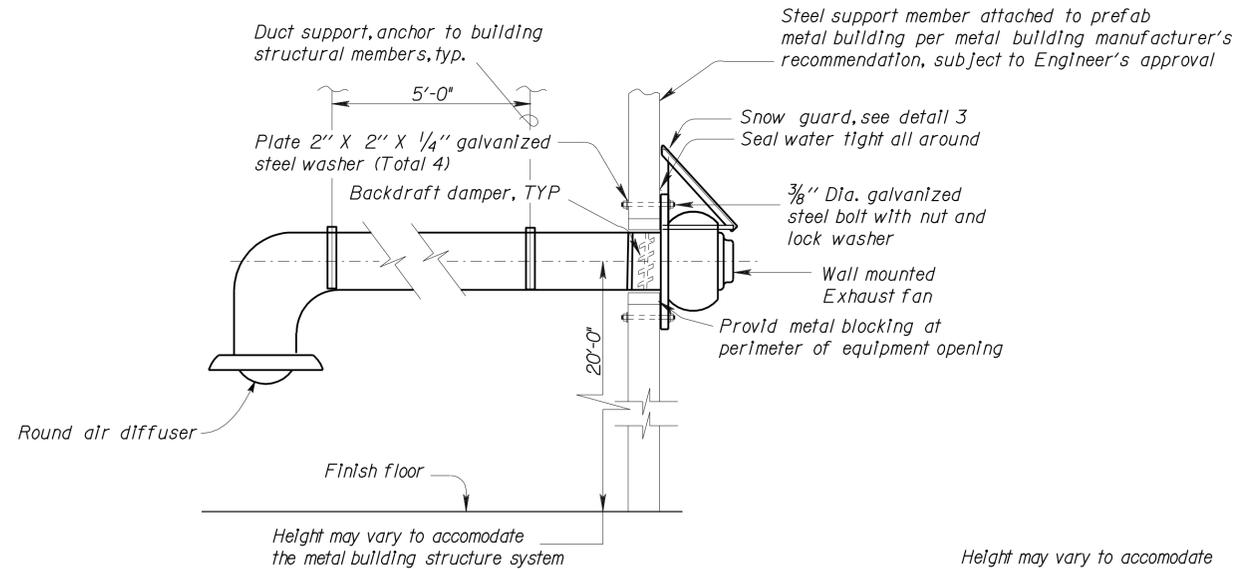
**CALIFORNIA STATE FIRE MARSHAL APPROVED**  
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.  
 Reviewed by: Pam Emick  
 Approval date: 11/12/08



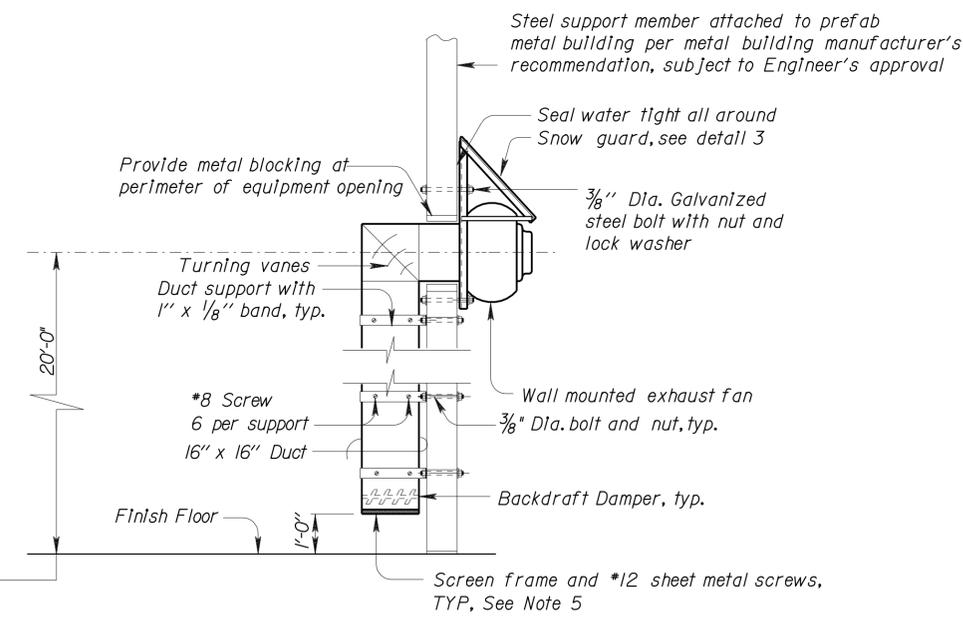
**3 SNOW GUARD DETAIL**  
 No Scale

**NOTES:**

- Overhang Frame shall be Galvanized Steel, L 2" x 2" x 1/4", all welded construction.
- Plate shall be Galvanized Steel, 12 gage, bolted to frame with 3/8" bolts and locknuts on 6" centers. Frame shall be bolted to building with 3/8" bolts and locknuts on 6" centers.
- Overhang size shall be suitable for fan installed.
- Mount snow guard to building wall with 3/8" Dia. Bolt and nut. Install at 6" O.C. MAX.
- Install sheet metal screen frame and 1/2" expanded metal Inlet duct screen.



**1 FUME EXHAUST FAN**  
 No Scale



**2 DECLASSIFICATION FAN**  
 No Scale

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

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

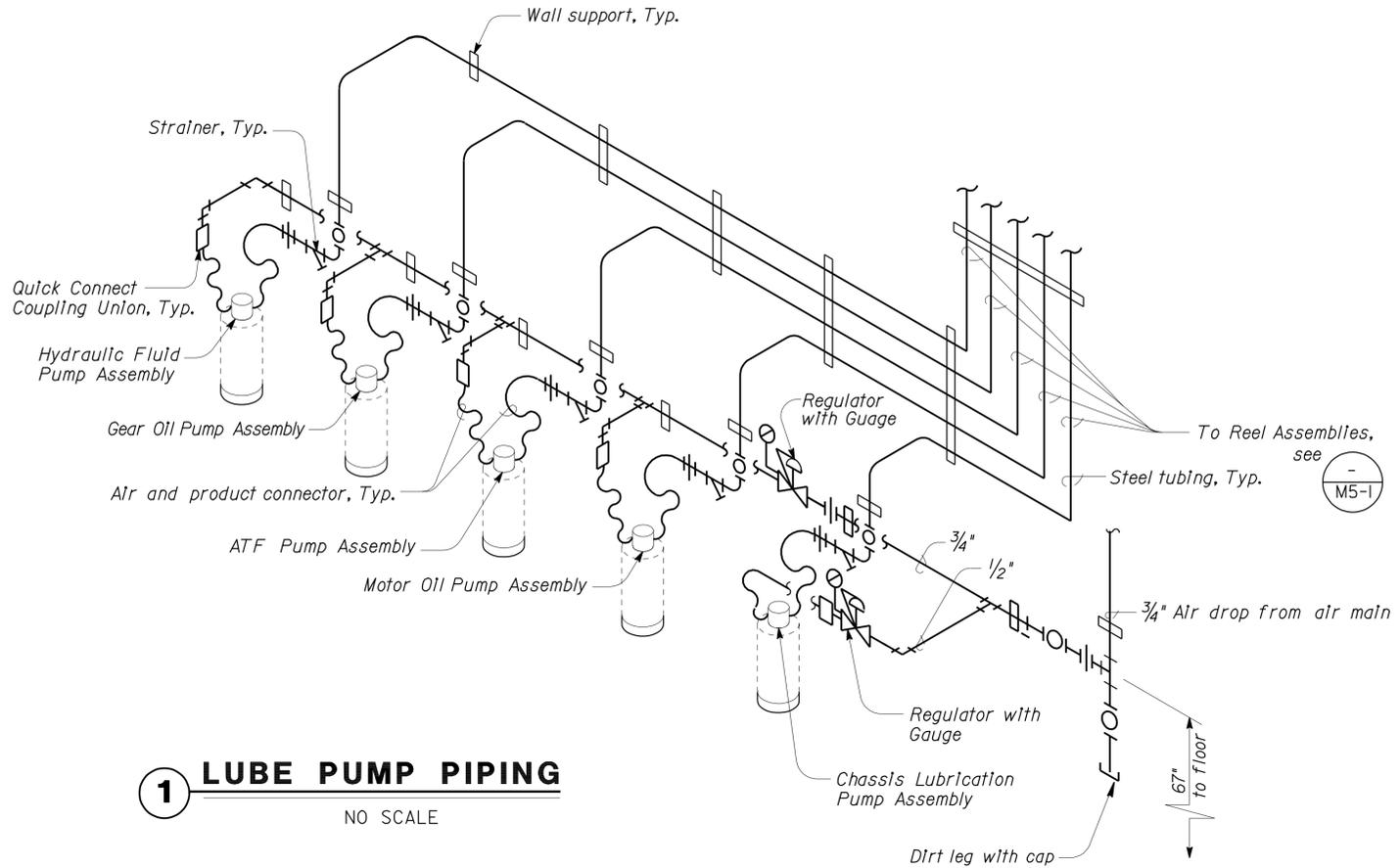
DIVISION OF ENGINEERING SERVICES  
 ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE NO.	5505
POST MILE	

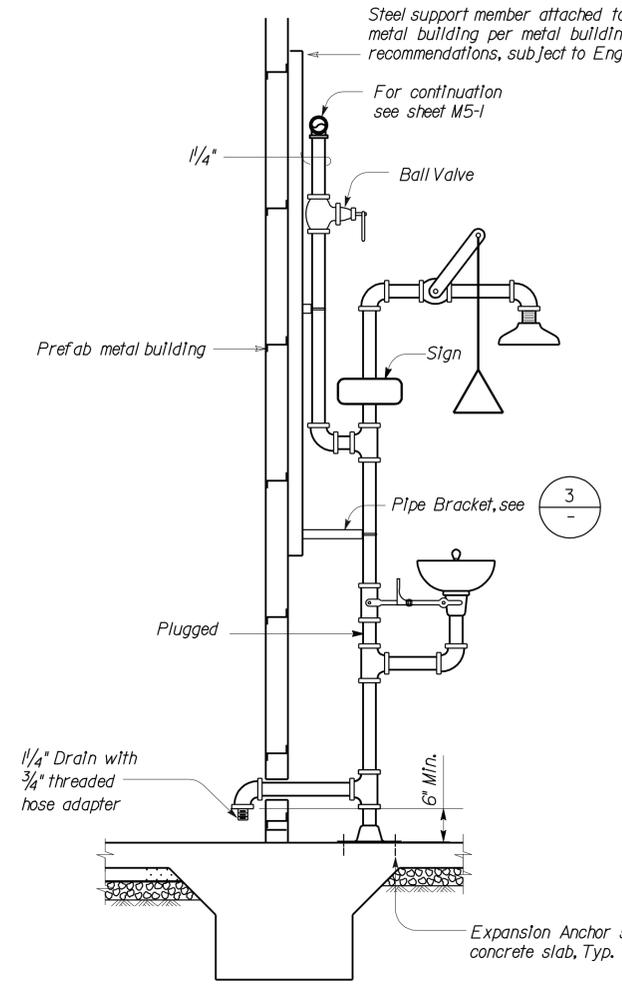
**SHOP 29 FACILITY REMODEL**  
 MECHANICAL DETAILS II

SHEET **M6-3** OF

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		84	102
<i>Solomon C. Wong</i> 08/29/08 REGISTERED MECHANICAL ENGINEER DATE					
11-17-08 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



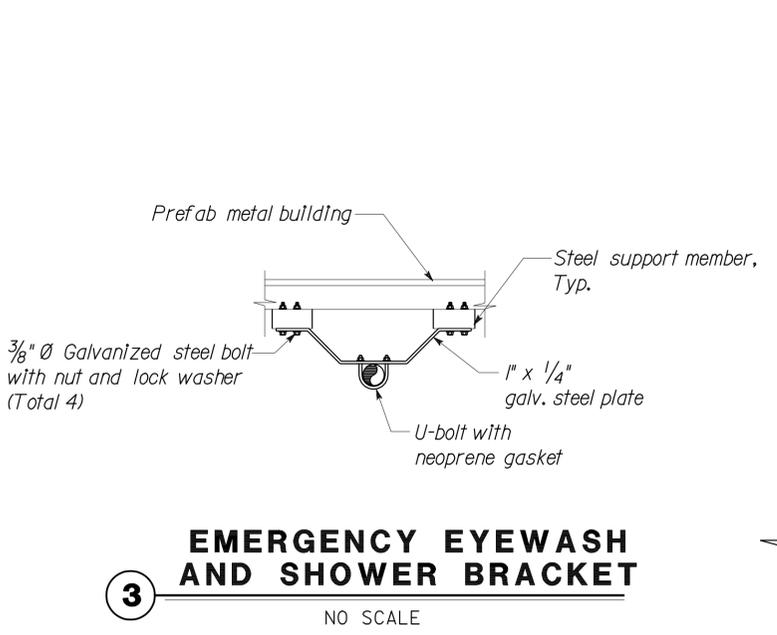
**1 LUBE PUMP PIPING**  
NO SCALE



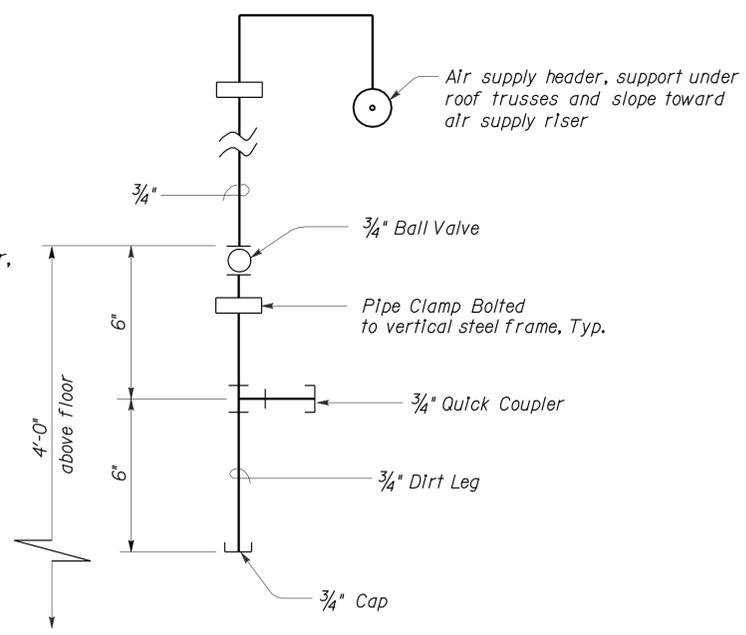
**2 EMERGENCY EYEWASH AND SHOWER DETAIL**  
NO SCALE

**CALIFORNIA STATE FIRE MARSHAL APPROVED**  
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.  
 Reviewed by: *Pam Emick*  
 PAM EMICK  
 Approval date: 11/12/08

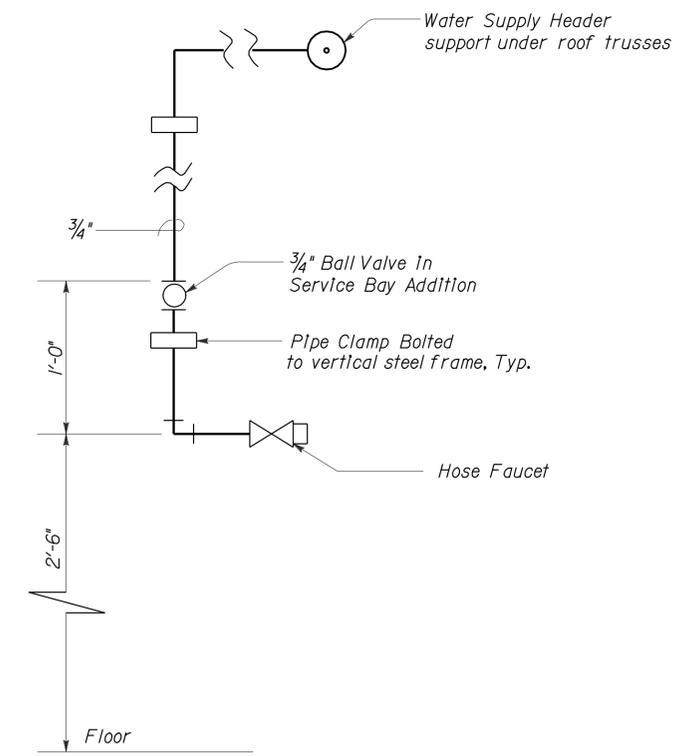
- NOTES:
1. Drums and lubrication product will be State-furnished.
  2. Mount lubrication system components on 3/4" thick plywood control panel.



**3 EMERGENCY EYEWASH AND SHOWER BRACKET**  
NO SCALE



**4 AIR DROP**  
No Scale



**5 WATER DROP**  
No Scale

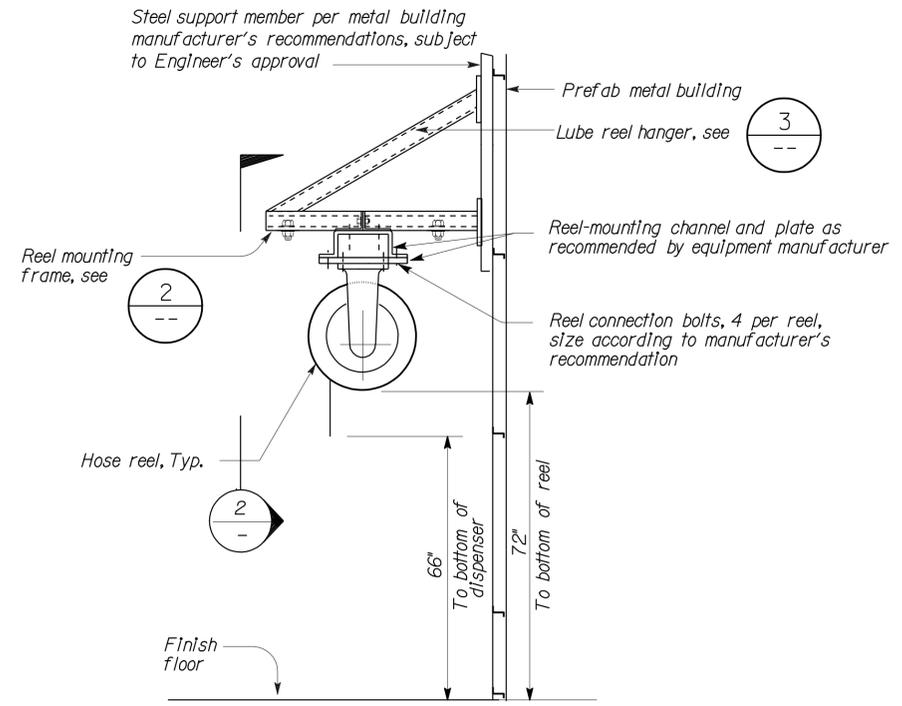
DESIGN	BY	<i>Solomon Wong</i>	CHECKED	<i>Alvin Kwan</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	5505	SHOP 29 FACILITY REMODEL MECHANICAL DETAILS III	SHEET M6-4
	DETAILS	BY	<i>J.R. Stangl</i>	CHECKED			<i>Alvin Kwan</i>	POST MILE		
QUANTITIES	BY	<i>Solomon Wong</i>	CHECKED	<i>Alvin Kwan</i>	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	CU 09123 EA 310601	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	4/8/08 6/20/08 8/29/08
DOES SD Imperial Rev. 1/07										04-JAN-2010 07:24

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		85	102

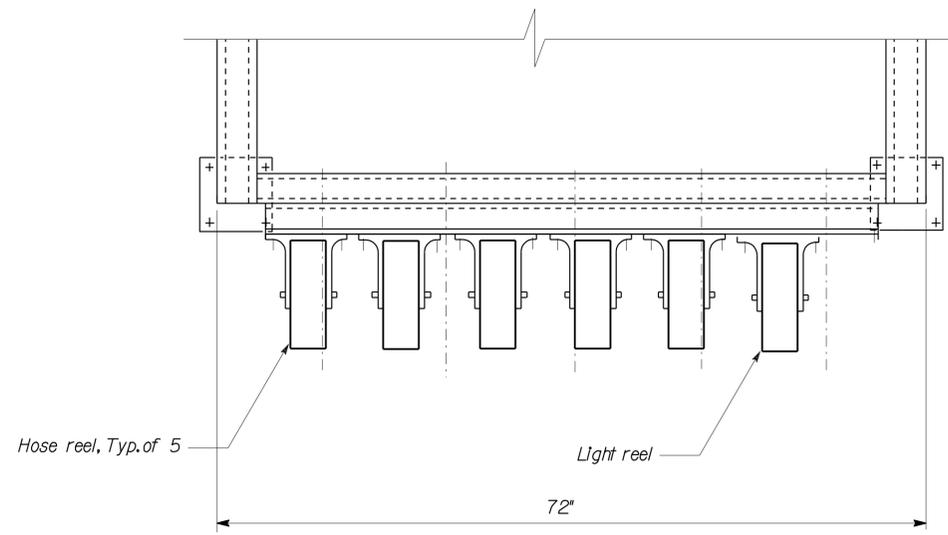
*Solomon C. Wong* 08/29/08  
REGISTERED MECHANICAL ENGINEER DATE

11-17-08  
PLANS APPROVAL DATE

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



**1 LUBE REEL SUPPORT ASSEMBLIES**  
NO SCALE

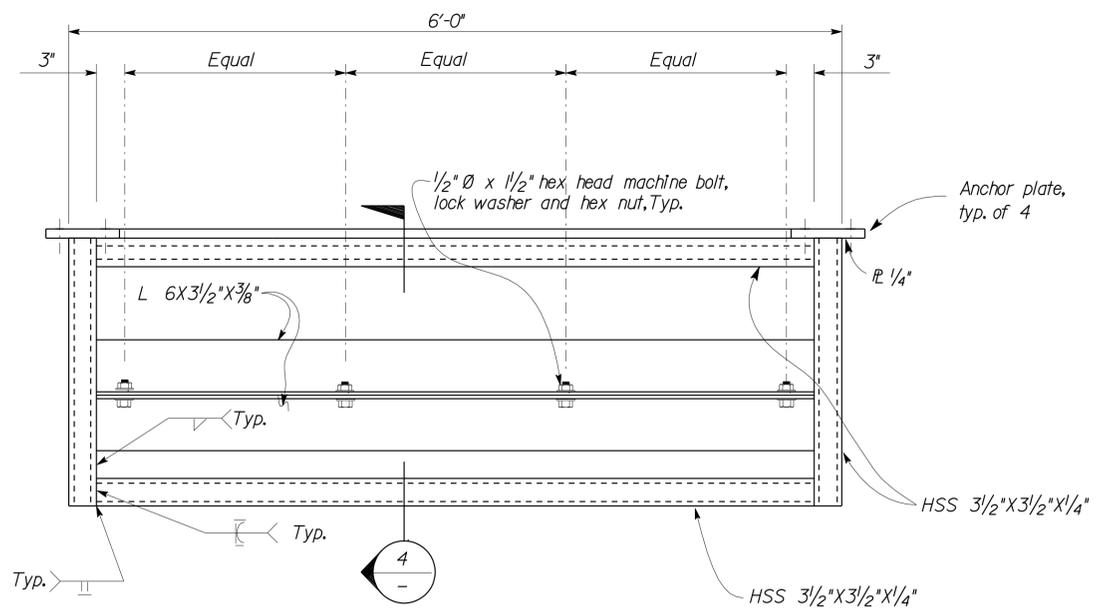


**2 REEL MOUNTING FRAME**  
NO SCALE

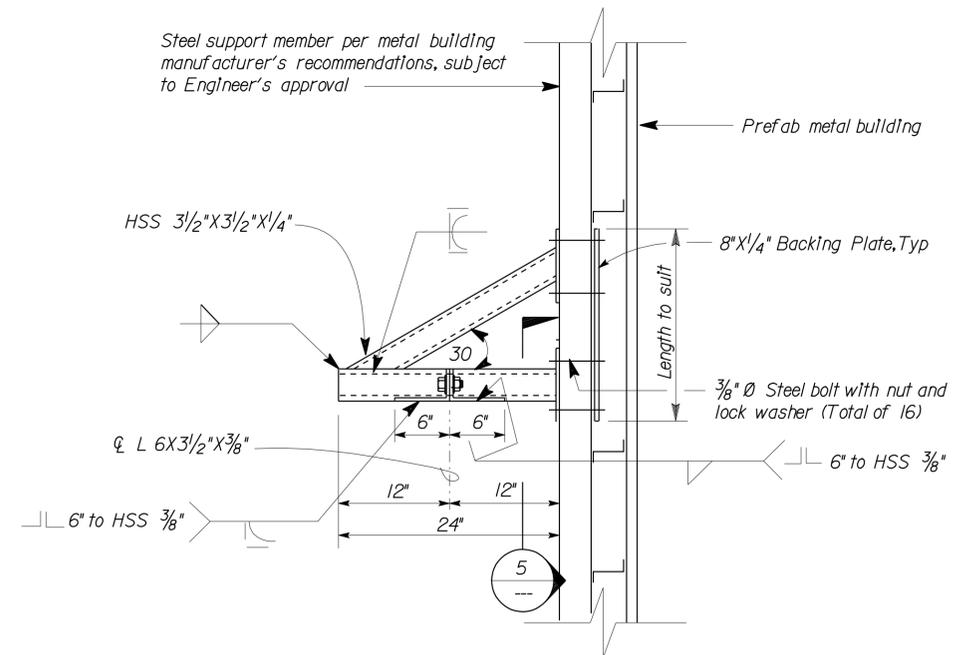
**CALIFORNIA STATE FIRE MARSHAL APPROVED**

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

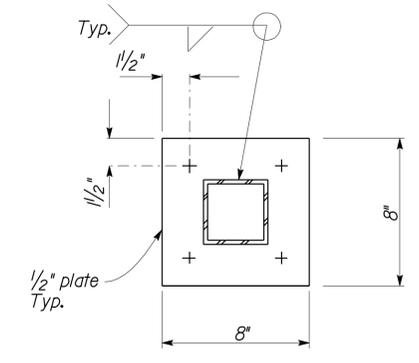
Reviewed by: *Pam Emick*  
PAM EMICK  
Approval date: 11/12/08



**3 LUBE REEL HANGER DETAIL**  
NO SCALE



**4 METAL STUD WALL SECTION**  
NO SCALE



**5 SECTION**  
NO SCALE

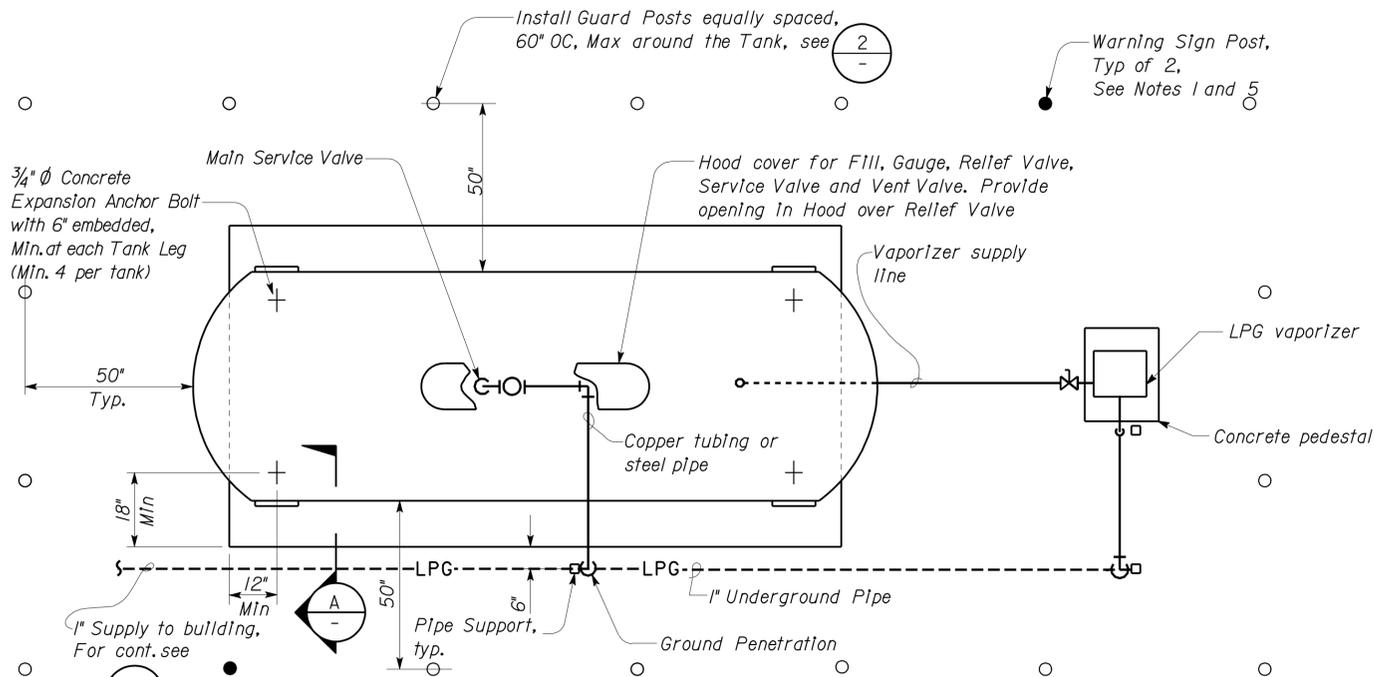
DESIGN	BY	Solomon Wong	CHECKED	Alvin Kwan	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	5505	SHOP 29 FACILITY REMODEL MECHANICAL DETAILS IV	SHEET M6-5	
	DETAILS	BY	J.R. Stangl	CHECKED			Alvin Kwan	POST MILE			
	QUANTITIES	BY	Solomon Wong	CHECKED			Alvin Kwan				
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0 1 2 3	CU 09123 EA 310601	DISREGARD PRINTS BEARING EARLIER REVISION DATES			REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
							4/8/08	6/20/08	8/29/08		

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		86	102

<i>Solomon C. Wong</i> 08/29/08 REGISTERED MECHANICAL ENGINEER DATE		
11-17-08 PLANS APPROVAL DATE		

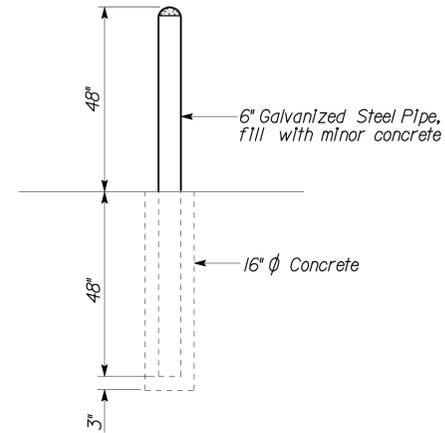
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



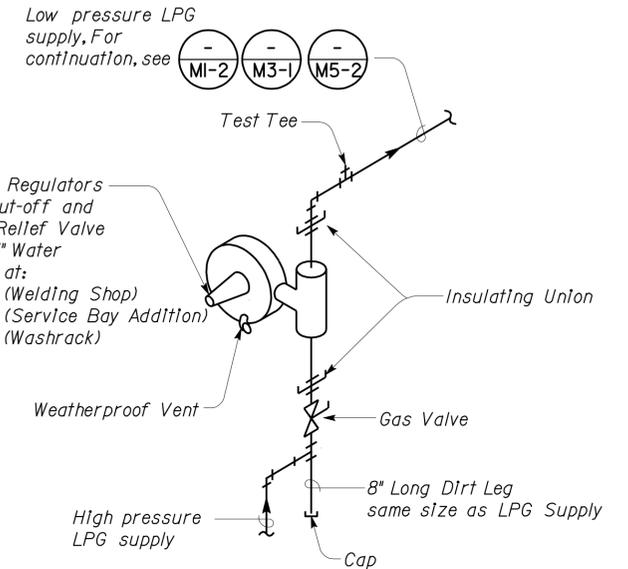
**PLAN**  
NO SCALE

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

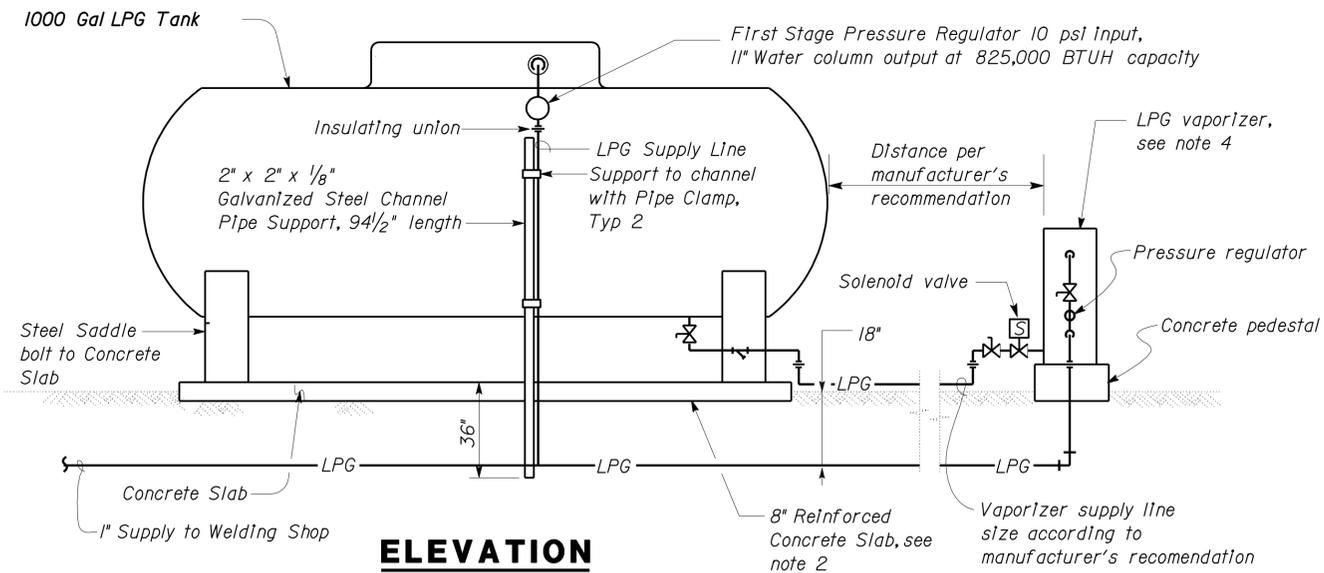
NO SMOKING, OPEN FLAMES OR OTHER SOURCE OF IGNITION PERMITTED WITHIN 50 FEET
  6. The LPG system including piping shall be installed in accordance with CMC, CFC and NFPA 58.



**2 GUARD POST**  
NO SCALE

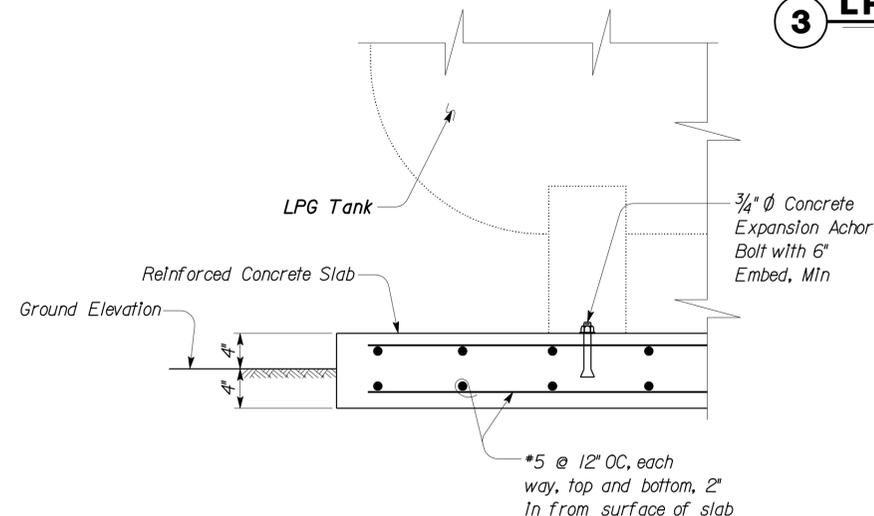


**3 SECOND STAGE LPG PRESSURE REGULATOR**  
NO SCALE



**ELEVATION**

**1 LPG TANK**  
NO SCALE



**A LPG TANK SLAB-SECTION**

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: 11/12/08

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

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

BRIDGE NO.	5505
POST MILE	

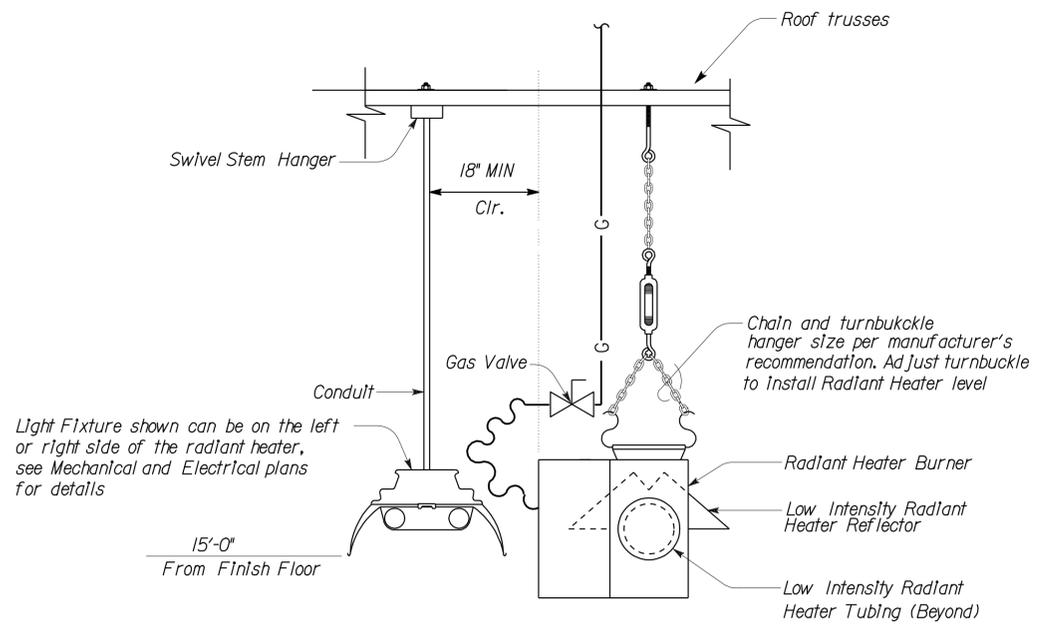
SHOP 29  
 FACILITY REMODEL  
 MECHANICAL DETAILS V

SHEET  
**M6-6**

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		87	102

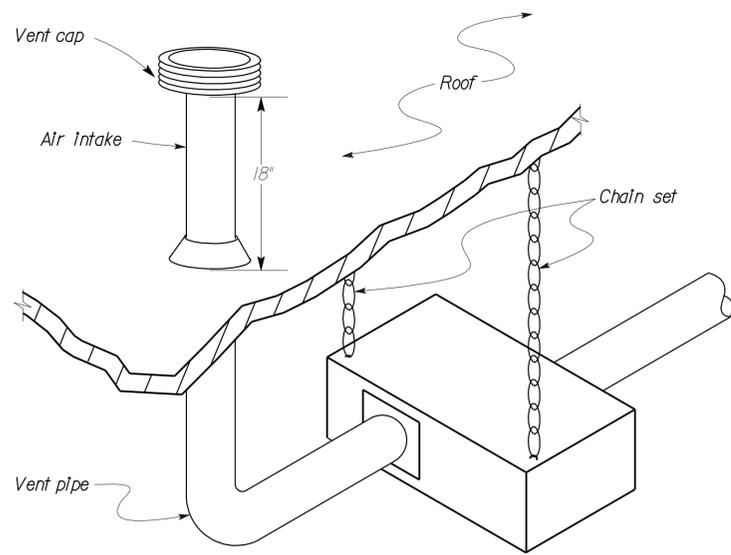
<i>Solomon C. Wong</i> 08/29/08		REGISTERED PROFESSIONAL ENGINEER No. M277626 Exp. 6-30-09 MECH STATE OF CALIFORNIA
DATE		
11-17-08 PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.		



**1 LOW INTENSITY RADIANT HEATER**

NO SCALE

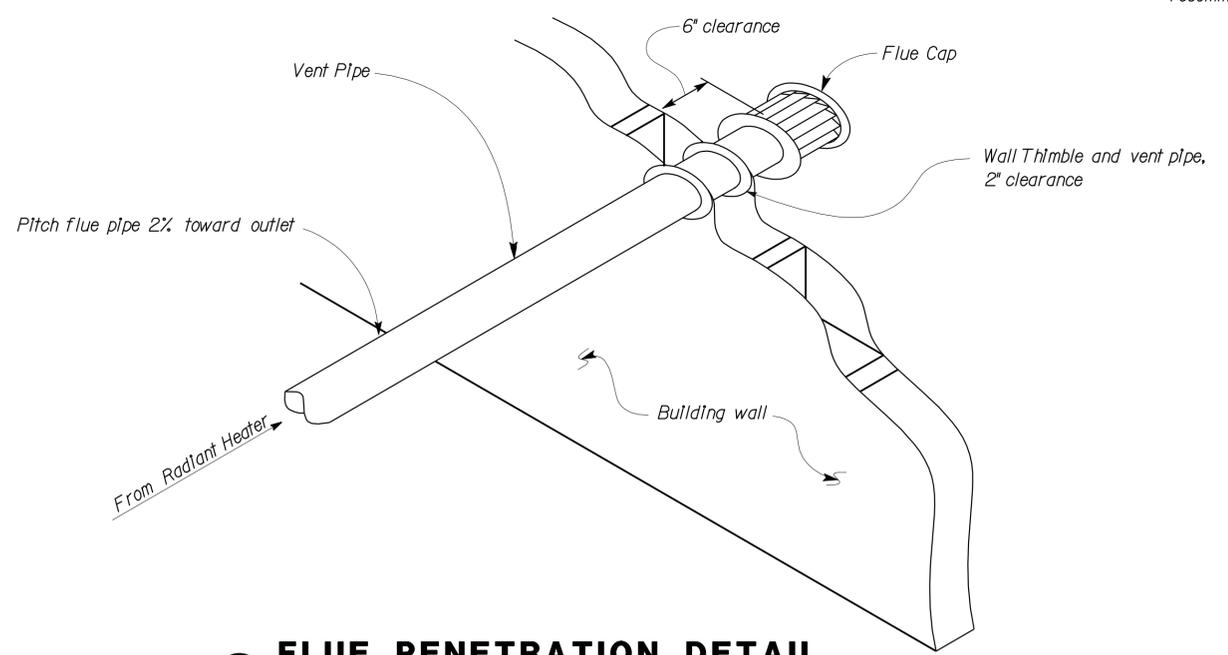
Note: Install Radiant Heater tubing at same elevation as light fixture.



**2 TUBE HEATER - THRU ROOF AIR INTAKE INSTALLATION**

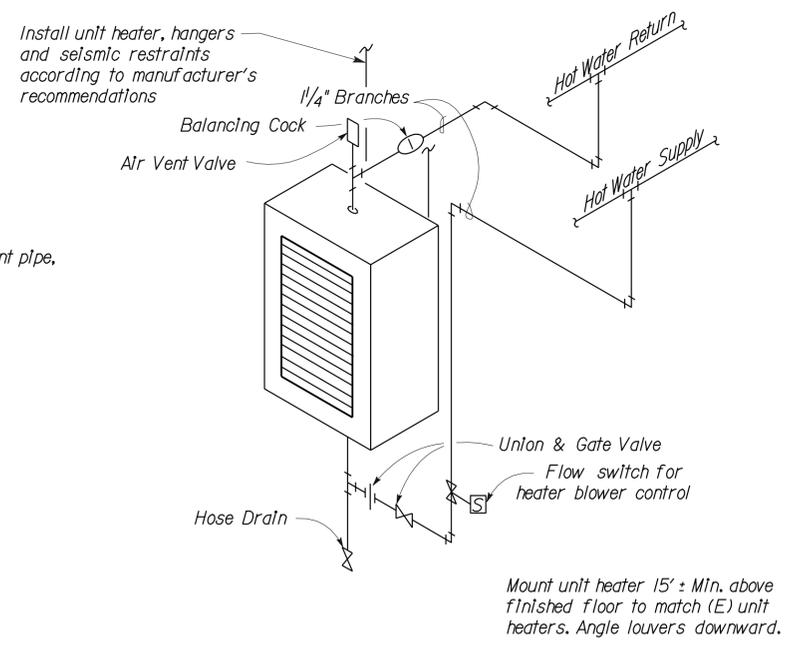
NO SCALE

**CALIFORNIA STATE FIRE MARSHAL APPROVED**  
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.  
Reviewed by: *Pam Emick*  
PAM EMICK  
Approval date: 11/12/08



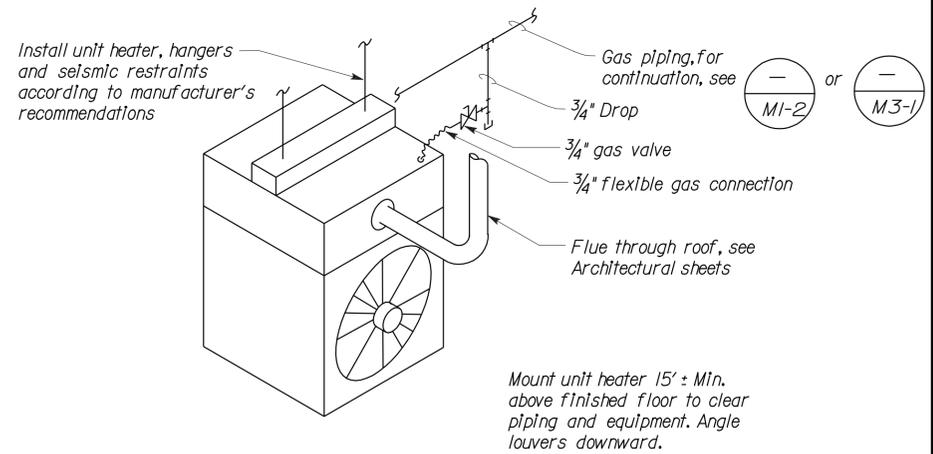
**3 FLUE PENETRATION DETAIL**

NO SCALE



**4 HYDRONIC UNIT HEATER**

NO SCALE



**5 GAS UNIT HEATER**

NO SCALE

DESIGN	BY	<i>Solomon Wong</i>	CHECKED	<i>Alvin Kwan</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	5505	SHOP 29 FACILITY REMODEL MECHANICAL DETAILS VI	SHEET M6-7
	DETAILS	BY	<i>J.R. Stangl</i>	CHECKED			<i>Alvin Kwan</i>	POST MILE		
QUANTITIES	BY	<i>Solomon Wong</i>	CHECKED	<i>Alvin Kwan</i>	CU 09123 EA 310601	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)			SHEET OF

## GRAPHIC SYMBOLS FOR ELECTRICAL WIRING AND LAYOUT DIAGRAMS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	POLE-TOP ELECTROLIER	Sm	MOTION SENSOR SWITCH
	POLE-ARM ELECTROLIER	ST	MANUAL MOTOR STARTING SWITCH, THERMAL OVERLOAD TYPE
<b>CEILING WALL</b>		SHP	MANUAL MOTOR STARTING SWITCH, WITHOUT OVERLOAD ELEMENT
	SURFACE FLUORESCENT, METAL HALIDE OR SODIUM VAPOR FIXTURE	Ts	TIMER SWITCH (120 MIN)
	RECESSED FLUORESCENT, METAL HALIDE, OR SODIUM VAPOR FIXTURE		SWITCH AND SINGLE RECEPTACLE
	EXIT LIGHT		SWITCH AND DUPLEX RECEPTACLE
	SURFACE OR PENDANT INDIVIDUAL FLUORESCENT FIXTURE		HAND DRYER
	RECESSED INDIVIDUAL FLUORESCENT FIXTURE		RADIO OUTLET
	SURFACE OR PENDANT CONTINUOUS ROW FLUORESCENT FIXTURES		TELEPHONE OUTLET
	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 		SOUND SYSTEM LOUD SPEAKER OUTLET
	BLANK OUTLET		PUSHBUTTON
	JUNCTION BOX		PUSHBUTTON STATION, NC, WITH LOCKING DEVICE FOR OPEN
	DROP CORD		PUSHBUTTON STATION MOTOR CONTROL
	SINGLE RECEPTACLE OUTLET		BUZZER
	DUPLEX RECEPTACLE OUTLET		BELL
	DUPLEX RECEPTACLE OUTLET (WITH GFCI)		COMBINATION BELL-BUZZER
	DUPLEX RECEPTACLE OUTLET, WEATHERPROOF (WITH GFCI)		THERMOSTAT
	SINGLE, SPECIAL PURPOSE RECEPTACLE OUTLET		PRESSURE SWITCH
	DUPLEX, SPECIAL PURPOSE RECEPTACLE OUTLET		FLOW SWITCH
	RANGE OUTLET		PHOTOELECTRIC CELL
	CLOCK HANGER RECEPTACLE		RADIO OUTLET
	FAN HANGER RECEPTACLE		SURFACE-MOUNTED PANELBOARD AND CABINET
	FLOOR SINGLE RECEPTACLE OUTLET		MOTOR CONTROLLER
	FLOOR DUPLEX RECEPTACLE OUTLET		DISCONNECT SWITCH
	FLOOR SPECIAL PURPOSE OUTLET		CONDUIT CONCEALED IN CEILING OR WALL
	FLOOR RADIO OUTLET		CONDUIT CONCEALED IN FLOOR
	FLOOR TELEPHONE OUTLET		CONDUIT EXPOSED
	MULTI-FLOOR OUTLET, 2 OR MORE GANG		CROSS-LINES INDICATE NUMBER OF #12 AWG CONDUCTORS. NO CROSS-LINE INDICATES 2#12 WITH #12 (G) UNLESS OTHERWISE NOTED. ALL CONDUIT SHALL BE 3/4" UNLESS OTHERWISE NOTED.
	MULTI-OUTLET ASSEMBLY		HOMERUN TO PANELBOARD, ARROWS INDICATE NUMBER OF CIRCUITS, LETTER DENOTES PANELBOARD, NUMERAL DENOTES CIRCUIT.
	SINGLE POLE SWITCH		SURFACE METAL RACEWAY
	DOUBLE POLE SWITCH		CONDUCTOR INFO (PER CONDUIT) CONDUIT TYPE CONDUIT SIZE NUMBER OF CONDUITS (NO NUMBER INDICATES ONE CONDUIT)
	THREE WAY SWITCH		CONDUIT, RIGID STEEL, UNDERGROUND
	FOUR WAY SWITCH		CONDUIT, POLYVINYL CHLORIDE, UNDERGROUND
	KEY OPERATED SWITCH		CONDUIT, FLEXIBLE
	SWITCH AND PILOT LIGHT		CONDUIT, TURN UP
	MOMENTARY CONTACT SWITCH		CONDUIT, TURN DOWN
	SELECTOR SWITCH		CONDUIT SEAL, EXPLOSION-PROOF
	WEATHERPROOF SWITCH		CONDUIT, EXPANSION JOINT
	FAN SWITCH		ADAPTER, ONE TYPE CONDUIT TO ANOTHER
	LIGHT SWITCH		POLE
	HEATER SWITCH		
	VARIABLE SPEED MOTOR CONTROL SWITCH		
	TWO SWITCHES, ONE SWITCH FOR LIGHT AND FAN AND TIMER SWITCH FOR HEAT LAMP		

## GRAPHIC SYMBOLS FOR ELECTRICAL DIAGRAMS

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

### 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

### PROJECT NOTES

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

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		88	102
 REGISTERED ELECTRICAL ENGINEER			8/27/08 DATE		
11-17-08 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: 11/12/08

### ABBREVIATIONS

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

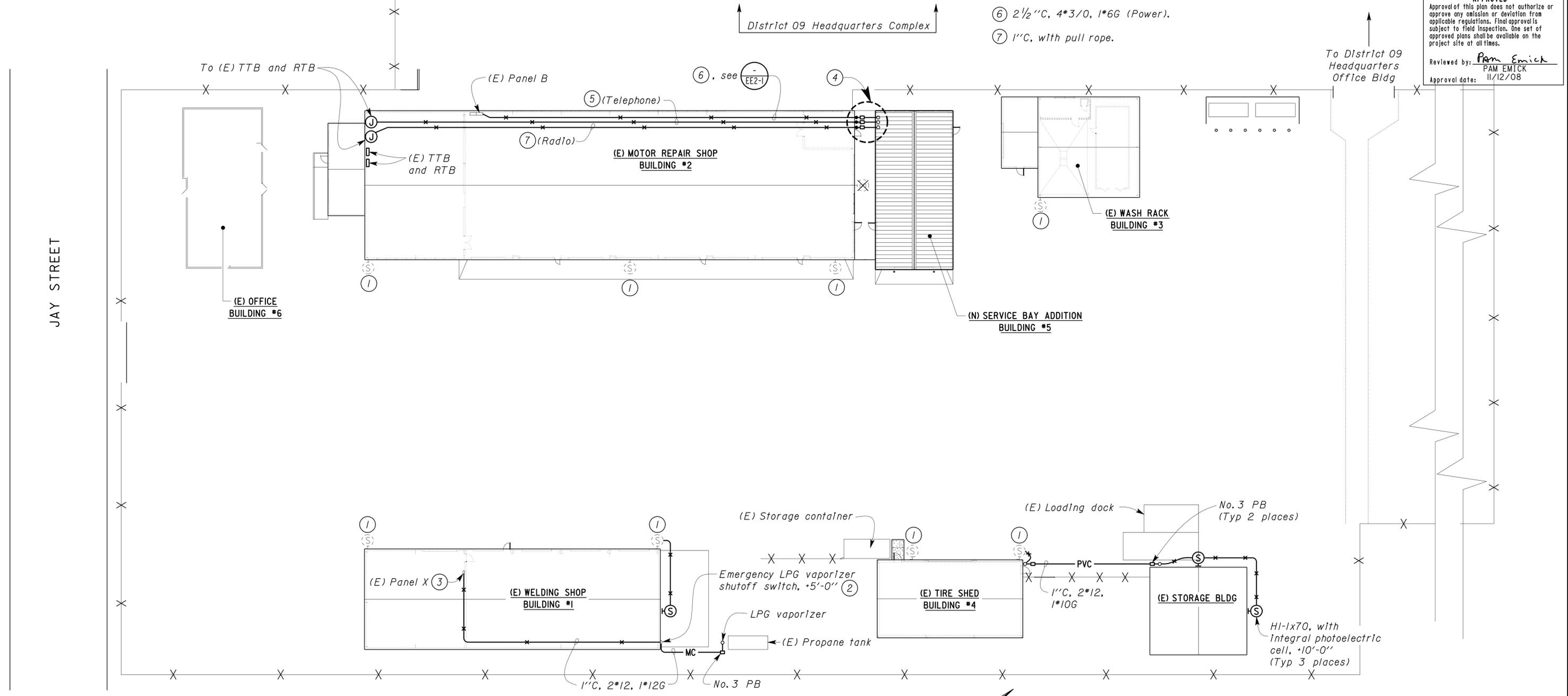
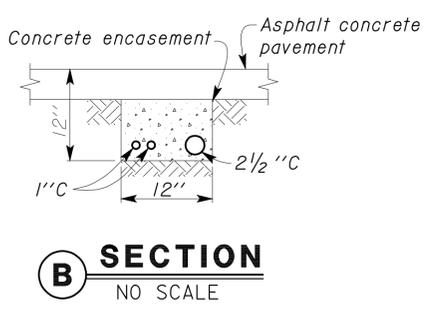
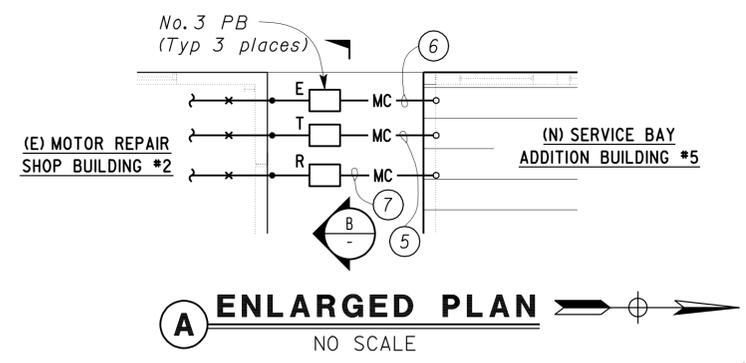
DESIGN BY <u>Johnny Wu</u> CHECKED <u>Beatrice Bindu</u> DETAILS BY <u>Kathl Andreasen</u> CHECKED <u>Johnny Wu</u> QUANTITIES BY <u>Johnny Wu</u> CHECKED <u>Beatrice Bindu</u>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES BRIDGE NO. 5505 POST MILE ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	SHOP 29 FACILITY REMODEL LEGEND	SHEET <b>EE0-0</b>
DOES SD Imperial Rev. 1/07	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 09123 EA 310601	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)
	0 1 2 3		9/5/07 7/28/08 8/27/08 11/28/07 12/5/07 1/17/08 4/16/08 6/28/08	SHEET OF

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		89	102

 REGISTERED ELECTRICAL ENGINEER DATE 8/27/08		
11-17-08 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>		

- Notes:**
- Remove existing lighting fixture. Install new lighting fixture (HI-1x70 with Integral photoelectric cell), total of 8.
  - Conduit riser up to emergency shut off switch shall be sealed.
  - Install a 2-pole, 20-ampere circuit breaker in spare space for power to LPG vaporizer.
  - For work in this area, see (A).
  - 1" C, 2 Category 5 (\*24 AWG, 25 twisted pair) cable.
  - 2 1/2" C, 4\*3/0, 1\*6G (Power).
  - 1" C, with pull rope.



**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: 11/12/08

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

**PARTIAL SITE PLAN**

SCALE 1" = 20'-0"

 DESIGN SUPERVISOR  DESIGN ENGINEER	DESIGN	BY Johnny Wu	CHECKED Beatrice Bindu
	DETAILS	BY Kathl Andreasen	CHECKED Johnny Wu
	QUANTITIES	BY Johnny Wu	CHECKED Beatrice Bindu

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

BRIDGE NO. 5505  
 POST MILE

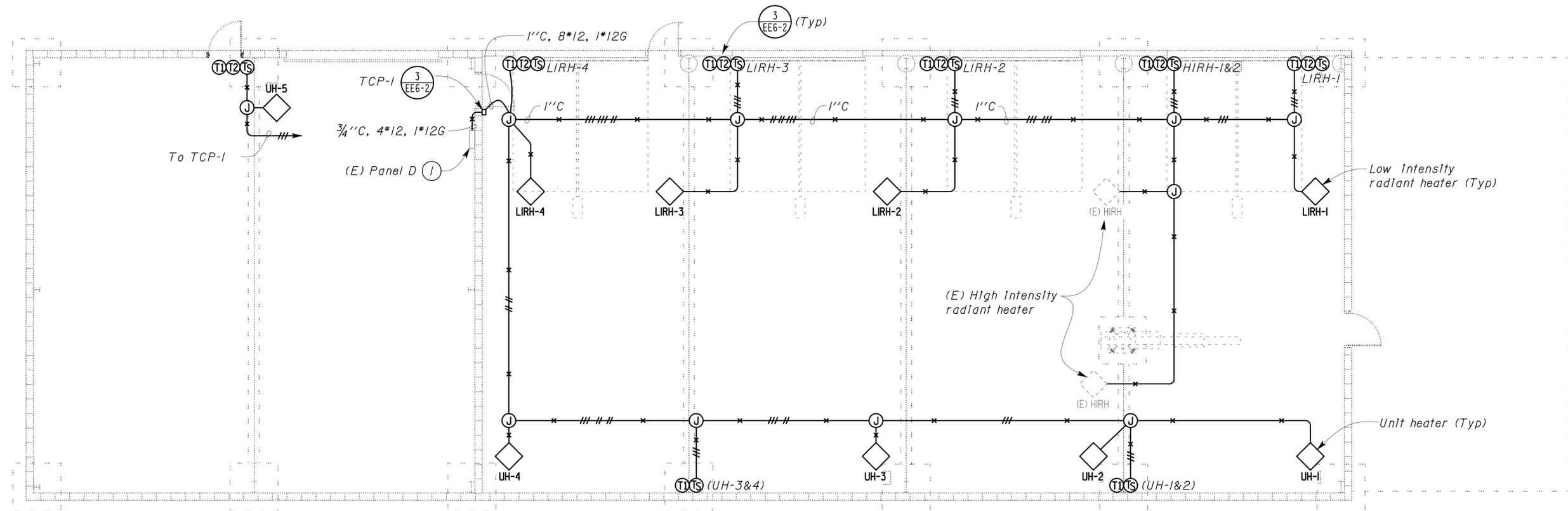
**SHOP 29 FACILITY REMODEL**  
 PARTIAL ELECTRICAL SITE PLAN

SHEET **EE0-1**

**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: 11/12/08

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		90	102
 REGISTERED ELECTRICAL ENGINEER			8/27/08	DATE	
					
11-17-08					
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.					

Note:  
 (1) Install two (2) 20-ampere, 1-pole circuit breakers in spare space for radiant heaters.



**PLAN**  
 SCALE 3/16" = 1'-0"

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN	BY	Johnny Wu	CHECKED	Beatrice Bindu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	5505	SHOP 29 FACILITY REMODEL HEATER CONTROL PLAN	SHEET EE1-1	
	DETAILS	BY	Kathl Andreasen	CHECKED			Johnny Wu	POST MILE			WELDING SHOP
	QUANTITIES	BY	Johnny Wu	CHECKED			Beatrice Bindu	DISREGARD PRINTS BEARING EARLIER REVISION DATES			REVISION DATES (PRELIMINARY STAGE ONLY)
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0 1 2 3	CU 09123 EA 310601	10/18/07 5/28/08 6/28/08 7/16/08 8/27/08 3/17/08 4/16/08 4/28/08 5/15/08				

General Note:

Disconnect and remove existing light fixtures, switches, wires, and conduits.

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		91	102

  
 REGISTERED ELECTRICAL ENGINEER DATE 8/27/08



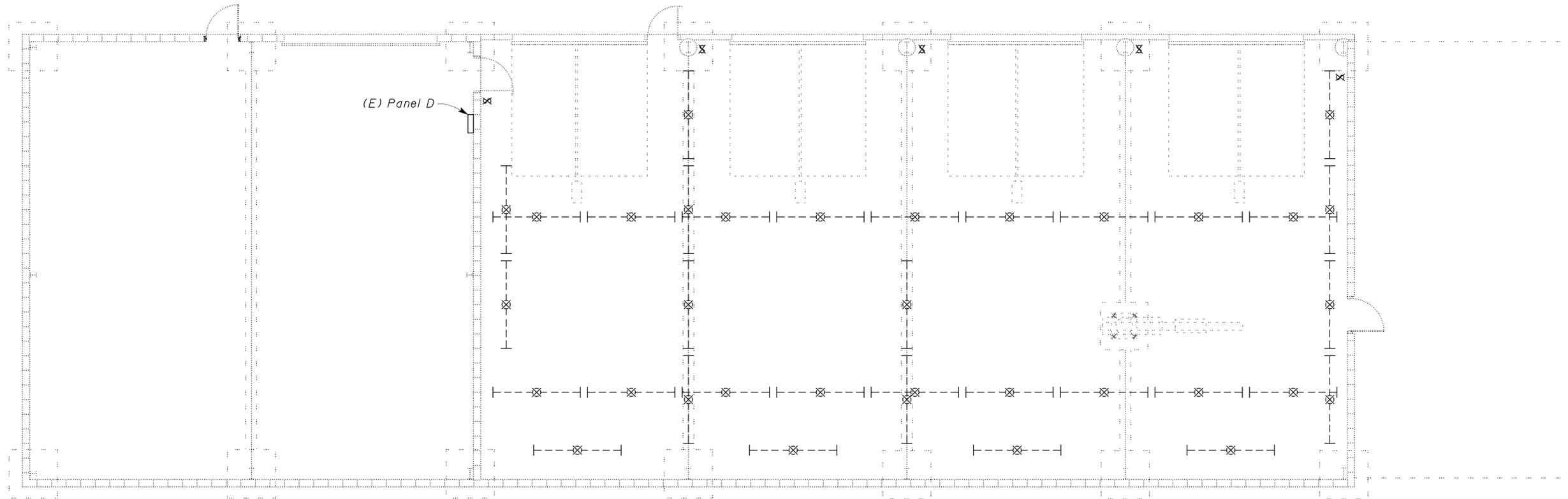
11-17-08  
PLANS APPROVAL DATE

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  
Approval date: 11/12/08



**PLAN**  
SCALE 3/16" = 1'-0"

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN	BY Johnny Wu	CHECKED Beatrice Bindu
DETAILS	BY Kathl Andreasen	CHECKED Johnny Wu
QUANTITIES	BY Johnny Wu	CHECKED Beatrice Bindu

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO. 5505  
POST MILE

WELDING SHOP

**SHOP 29 FACILITY REMODEL**  
LIGHTING REMOVAL PLAN

SHEET **EE1-2**

DOES SD Imperial Rev. 1/07

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

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

CU 09123  
EA 310601

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)							
8/24/07	10/3/07	10/9/07	11/28/07	1/11/08	4/16/08	4/28/08	6/26/08
8/27/08							

SHEET OF



**General Notes:**

- A. Location shown for the overhead door operators is for illustration only. Exact location depends upon items furnished. Contractor shall provide any additional conduits and wires not shown but necessary for the automatic operation of the overhead doors.
- B. Motor disconnect for the overhead door operator shall be mounted near motor unit.

**Notes:**

- 1 Install two (2) 3-pole circuit breakers at position 7 and 9 for vehicle lifts. Breaker size shall be per requirement of manufacturer of vehicle lift. Panel is General Electric 120/240-volt, Cat. No. C/B, 3-phase, 4-wire.
- 2 Install two (2) 15-ampere, 1-pole circuit breakers at positions 11 and 12 for overhead door operators.
- 3 Install one (1) 150-ampere, 3-pole circuit breaker at position 6 for feeder breaker to serve Service Bay Addition building.
- 4 Remove two (2) hoist pumps, disconnect switches, conduits and wires up to the panels.
- 5 Replace existing main breaker (600-ampere) with new 240-volt, 3-pole breaker, 600-ampere and necessary hardware. Metering panel is 120/240-volt, 3-phase, 4-wire, minimum AIC 42 kA, at 240-volts, General Electric, Cat. No. C/B.
- 6 For detail information, see Mechanical plan, sheet M3-1.

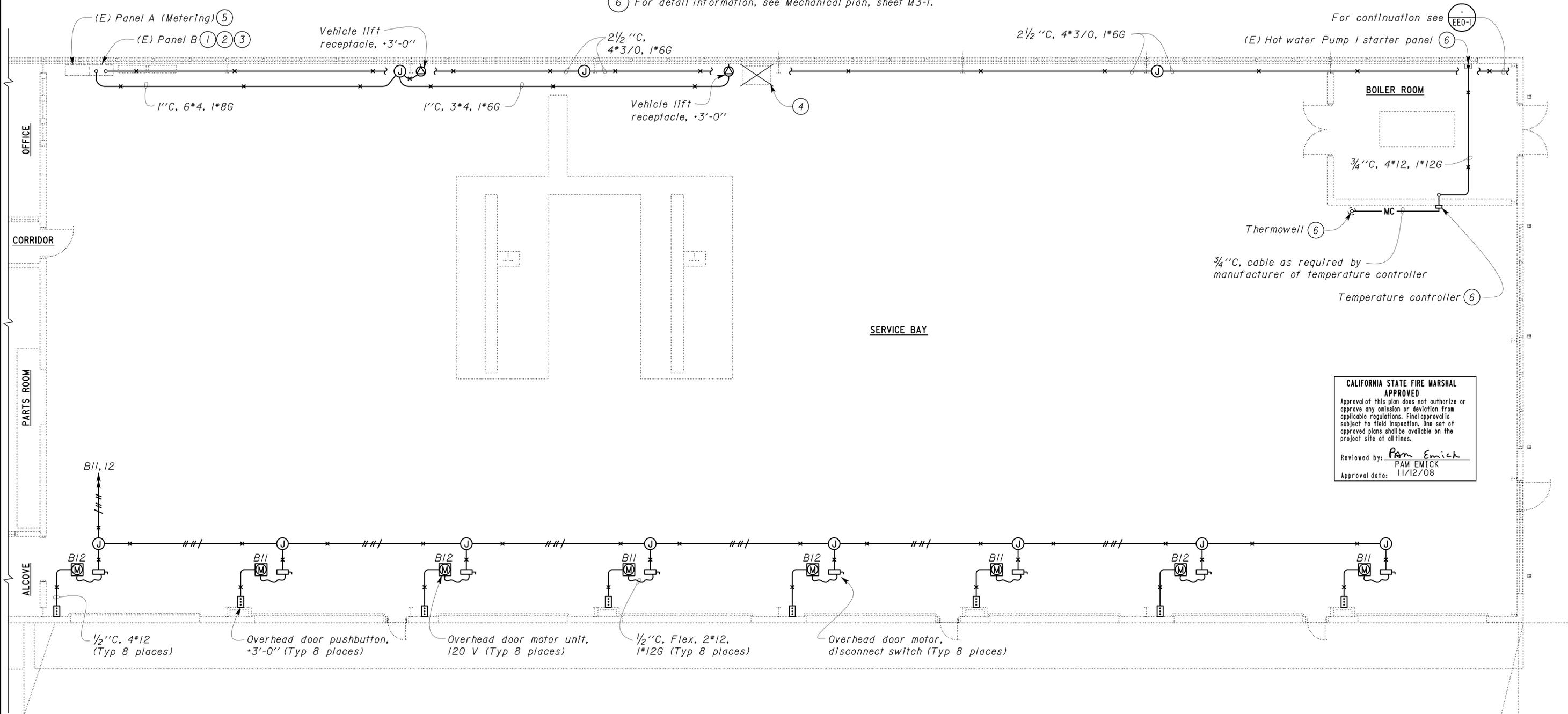
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		93	102



  
 REGISTERED ELECTRICAL ENGINEER      8/27/08  
 DATE

11-17-08  
 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: 11/12/08

**PLAN** 

SCALE 3/16" = 1'-0"

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN BY <u>Johnny Wu</u> CHECKED <u>Beatrice Bindu</u>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	SHOP 29 FACILITY REMODEL		SHEET <b>EE2-1</b>
			5505	PARTIAL POWER PLAN		
			POST MILE	MOTOR REPAIR SHOP		
DETAILS BY <u>Kathl Andreasen</u> CHECKED <u>Johnny Wu</u>			REVISION DATES (PRELIMINARY STAGE ONLY)			SHEET OF
QUANTITIES BY <u>Johnny Wu</u> CHECKED <u>Beatrice Bindu</u>			8/24/07 4/16/08 4/28/08 6/24/08 6/28/08 7/2/08 8/27/08 1/17/09 3/7/09			
DOES SD Imperial Rev. 1/07	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 09123 EA 310601	DISREGARD PRINTS BEARING EARLIER REVISION DATES			

04-JAN-2010 07:26 ee2\_01.dgn

**General Note:**

A. For location of unit heaters, see Mechanical sheet M2-2.

**Notes:**

- ① Remove conduit and wires up to the manual starter of each existing unit heater.
- ② New unit heater shall have the same controls as the existing unit heater (Flow switch and manual starter with overload).
- ③ To existing circuit breaker which powers the existing unit heaters.

**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: 11/12/08

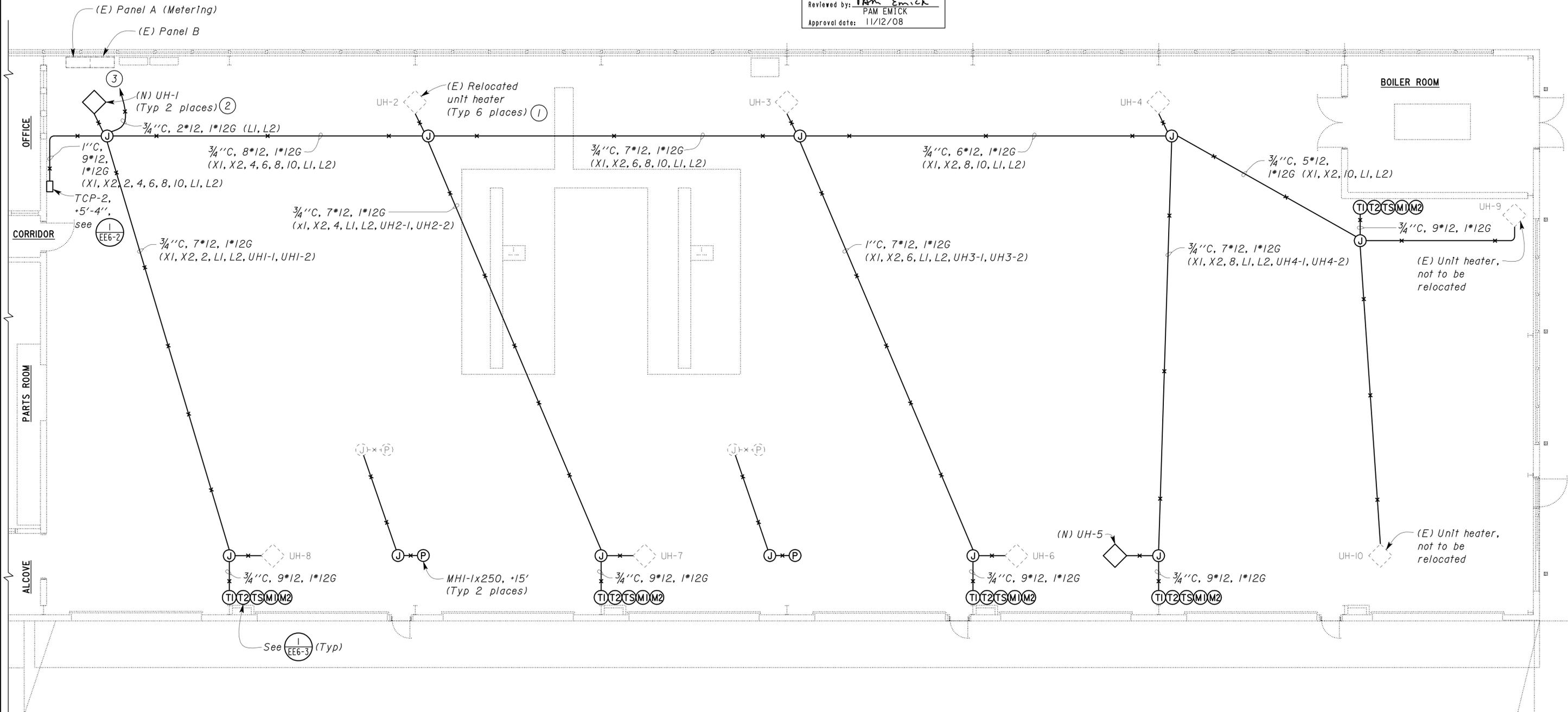
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		94	102

REGISTERED ELECTRICAL ENGINEER DATE 8/27/08

CHI WU  
 No. 10773  
 Exp. 6-30-09  
 ELEC  
 STATE OF CALIFORNIA

11-17-08  
 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.

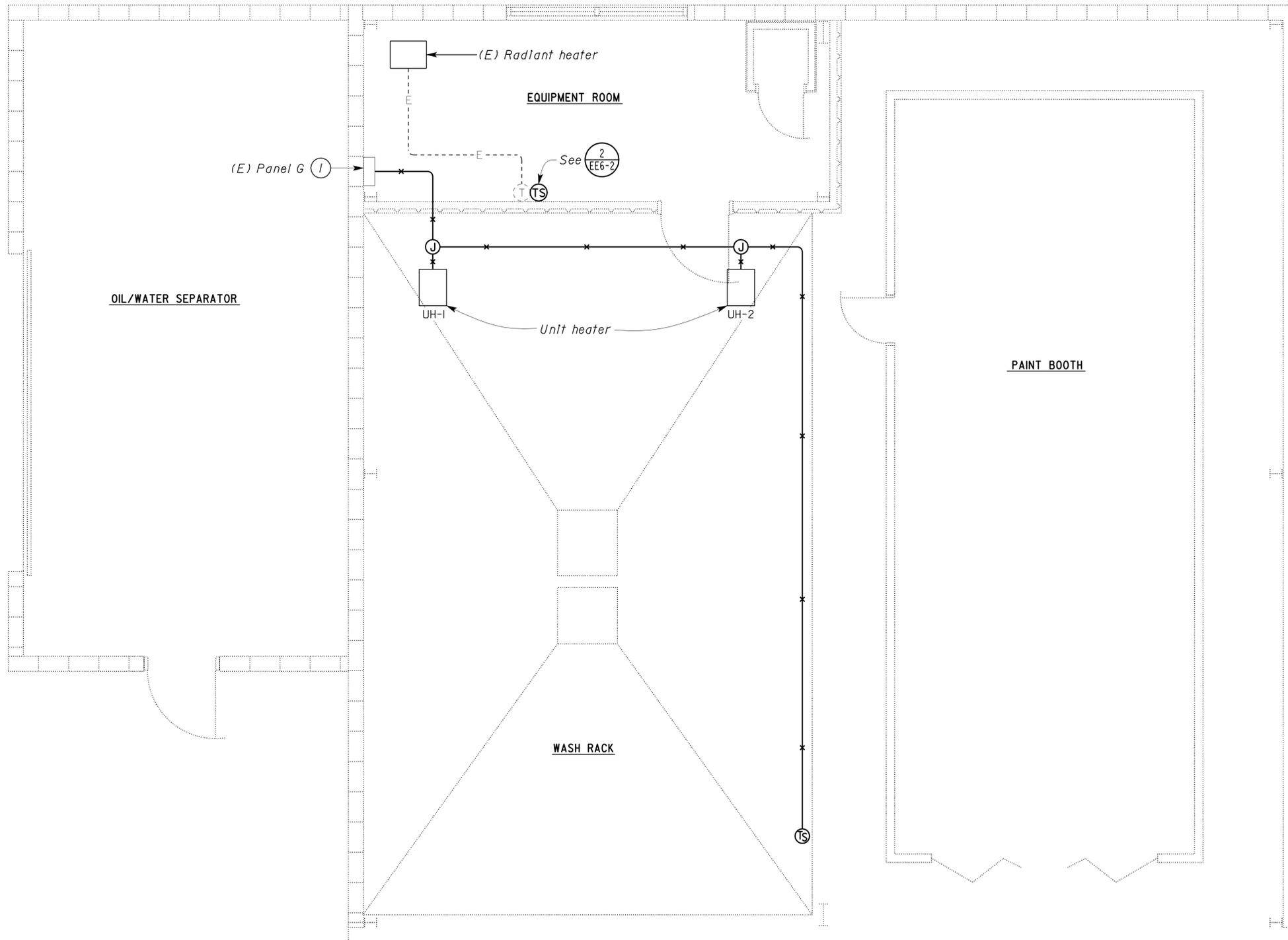


**PLAN**  
 SCALE 3/16" = 1'-0"

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN BY <u>Johnny Wu</u> CHECKED <u>Beatrice Bindu</u>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 5505	SHOP 29 FACILITY REMODEL		SHEET <b>EE2-2</b>								
			POST MILE	PARTIAL LIGHTING AND HEATING PLAN										
			MOTOR REPAIR SHOP											
DETAILS BY <u>Kathl Andreasen</u> CHECKED <u>Johnny Wu</u>	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	CU 09123 EA 310601	REVISION DATES (PRELIMINARY STAGE ONLY)				SHEET OF							
QUANTITIES BY <u>Johnny Wu</u> CHECKED <u>Beatrice Bindu</u>			<table border="1"> <tr> <td>9/5/07</td> <td>5/7/08</td> <td>5/28/08</td> <td>6/28/08</td> <td>7/2/08</td> <td>7/16/08</td> <td>8/27/08</td> <td>3/17/09</td> <td>4/16/09</td> <td>4/28/09</td> </tr> </table>					9/5/07	5/7/08	5/28/08	6/28/08	7/2/08	7/16/08	8/27/08
9/5/07	5/7/08	5/28/08	6/28/08	7/2/08	7/16/08	8/27/08	3/17/09	4/16/09	4/28/09					
DOES SD Imperial Rev. 1/07			DISREGARD PRINTS BEARING EARLIER REVISION DATES											

04-JAN-2010 07:26 ee2\_02.dgn



**CALIFORNIA STATE FIRE MARSHAL APPROVED**  
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.  
 Reviewed by: Pam Emick  
 PAM EMICK  
 Approval date: 11/12/08

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		95	102

Chi Wu 8/27/08  
 REGISTERED ELECTRICAL ENGINEER DATE  
 REGISTERED PROFESSIONAL ENGINEER  
 CHI WU  
 No. 10773  
 Exp. 6-30-09  
 ELEC  
 STATE OF CALIFORNIA  
 11-17-08  
 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.

Note:  
 (1) Install one (1) 20-ampere, 1-pole circuit breaker, in spare space, for radiant heater. Panel G is General Electric type NLAB, 100-ampere, 120/240-volt, single-phase, 3-wire.

**PLAN**

SCALE 3/8" = 1'-0"

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN	BY <u>Johnny Wu</u>	CHECKED <u>Beatrice Bindu</u>
DETAILS	BY <u>Kathl Andreasen</u>	CHECKED <u>Johnny Wu</u>
QUANTITIES	BY <u>Johnny Wu</u>	CHECKED <u>Beatrice Bindu</u>

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

BRIDGE NO.	5505	SHOP 29 FACILITY REMODEL WASH RACK BUILDING POWER PLAN	SHEET OF EE3-1
POST MILE			

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

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

CU 09123  
 EA 310601

DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
	9/5/07 7/2/08 7/16/08 8/27/08 3/17/08 4/18/08 4/28/08 6/5/08 6/28/08	

General Notes:

- A. Location shown for the overhead door operators is for illustration only. Exact location depends upon items furnished. The Contractor shall provide any additional conduits and wires not shown but necessary for the automatic operation of the overhead doors.
- B. Motor disconnect for the overhead door operator shall be mounted near motor unit.

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		96	102

  
 REGISTERED ELECTRICAL ENGINEER DATE 8/27/08



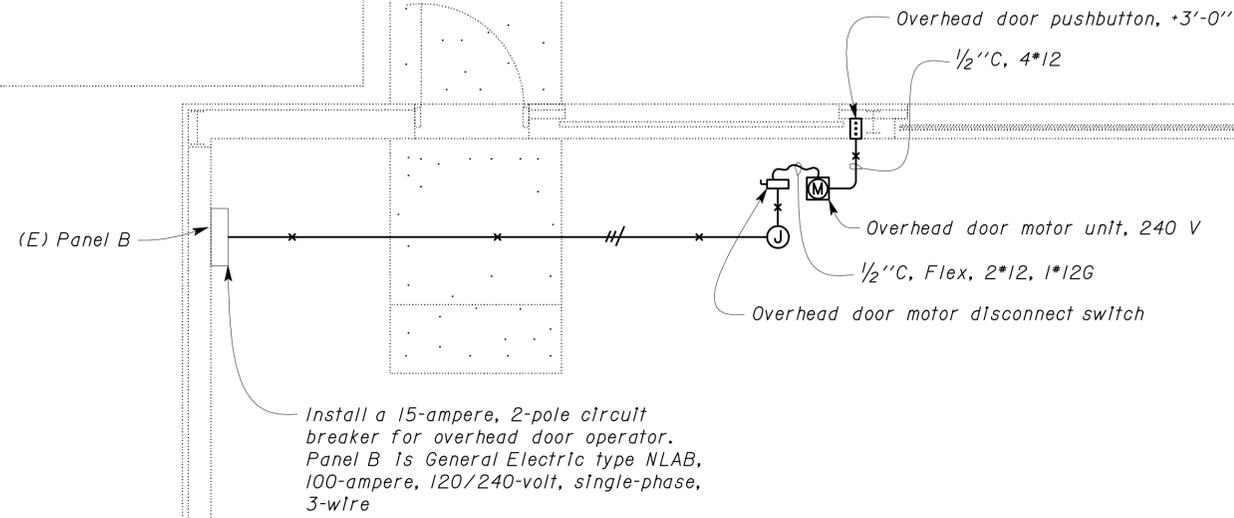
11-17-08  
 PLANS APPROVAL DATE

*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.

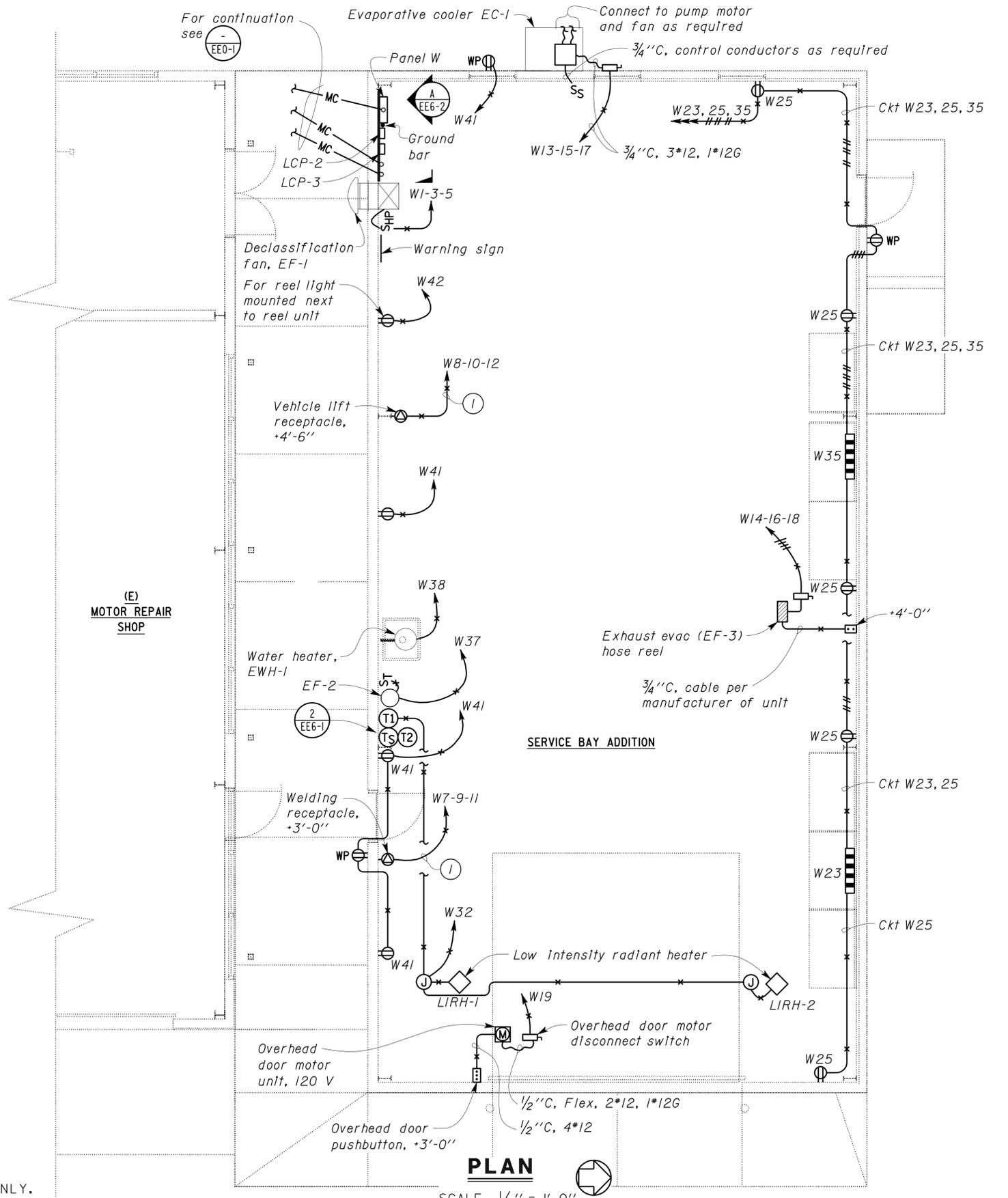
Reviewed by: Pam Emick  
 PAM EMICK  
 Approval date: 11/12/08



THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

**PLAN**   
 SCALE 3/8" = 1'-0"

DOES SD Imperial Rev. 1/07	DESIGN BY <u>Johnny Wu</u>	CHECKED <u>Beatrice Bindu</u>	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 5505	<b>SHOP 29 FACILITY REMODEL</b> TIRE SHED <b>POWER PLAN</b>	SHEET <b>EE4-1</b> OF	
	DETAILS BY <u>Kathl Andreasen</u>	CHECKED <u>Johnny Wu</u>			POST MILE			
	QUANTITIES BY <u>Johnny Wu</u>	CHECKED <u>Beatrice Bindu</u>			REVISION DATES (PRELIMINARY STAGE ONLY)			
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0	1	2	3	CU 09123 EA 310601	DISREGARD PRINTS BEARING EARLIER REVISION DATES →	9/5/07   9/25/07   10/9/07   11/26/07   1/11/08   4/16/08   4/28/08   6/26/08   8/27/08	SHEET OF



**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: 11/12/08

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		97	102

11-17-08  
 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.

- General Notes:**
- Location shown for the overhead door operators is for illustration only. Exact location depends upon items furnished. The Contractor shall provide any additional conduits and wires not shown but necessary for the automatic operation of the overhead doors.
  - Motor disconnect for the overhead door operator shall be mounted near motor unit.
  - For location of mechanical equipment, see Mechanical sheets M5-1 and M5-2.

**Note:**  
 (1) 1" C, 3\*6, 1\*10G.

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

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

DESIGN	BY Johnny Wu	CHECKED Beatrice Bindu
DETAILS	BY Kathi Andreasen	CHECKED Johnny Wu
QUANTITIES	BY Johnny Wu	CHECKED Beatrice Bindu

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

BRIDGE NO.	5505	SHOP 29 FACILITY REMODEL POWER PLAN	SHEET OF EE5-1
POST MILE	SERVICE BAY ADDITION		

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	CU 09123 EA 310601	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
				9/5/07 8/15/08 8/27/08 5/28/08 5/28/08 6/7/08 6/28/08 7/24/08 7/16/08	

**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: 11/12/08

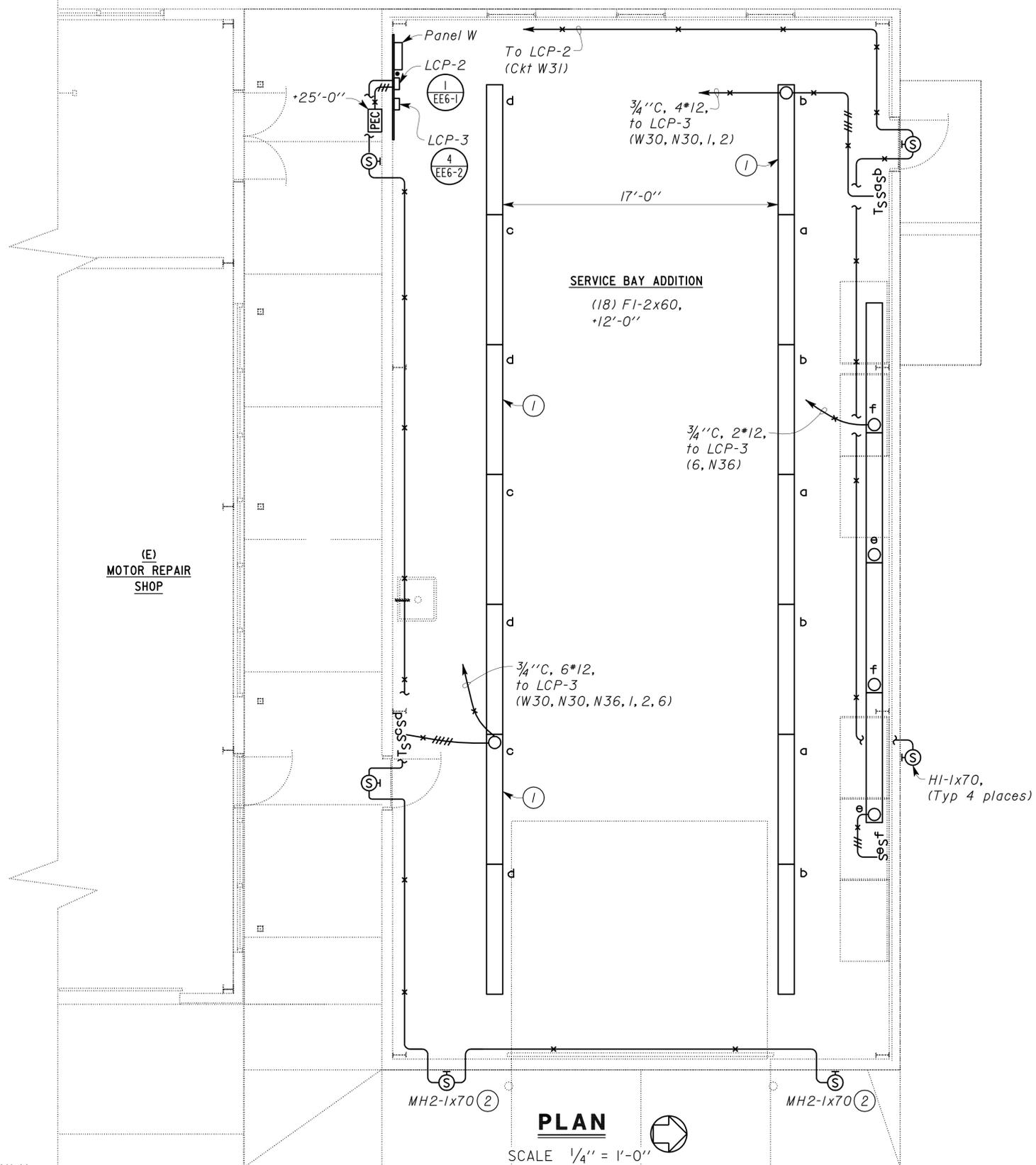
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		98	102

11-17-08  
 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.

**General Note:**  
 For exact location and mounting height of lighting fixtures, see Architectural plan A5-1.

**Notes:**  
 1 This light fixture shall be equipped with emergency ballast.  
 2 For mounting detail see Architectural plan A5-1.



THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN BY <u>Johnny Wu</u> CHECKED <u>Beatrice Bindu</u>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 5505	SHOP 29 FACILITY REMODEL LIGHTING PLAN	SHEET EE5-2	
			POST MILE			SERVICE BAY ADDITION
			CU 09123 EA 310601			DISREGARD PRINTS BEARING EARLIER REVISION DATES
DETAILS BY <u>Kathl Andreasen</u> CHECKED <u>Johnny Wu</u>	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF		
QUANTITIES BY <u>Johnny Wu</u> CHECKED <u>Beatrice Bindu</u>			9/5/07 8/27/08 4/29/08 5/16/08 6/9/08 6/26/08 7/16/08 7/30/08 8/15/08			

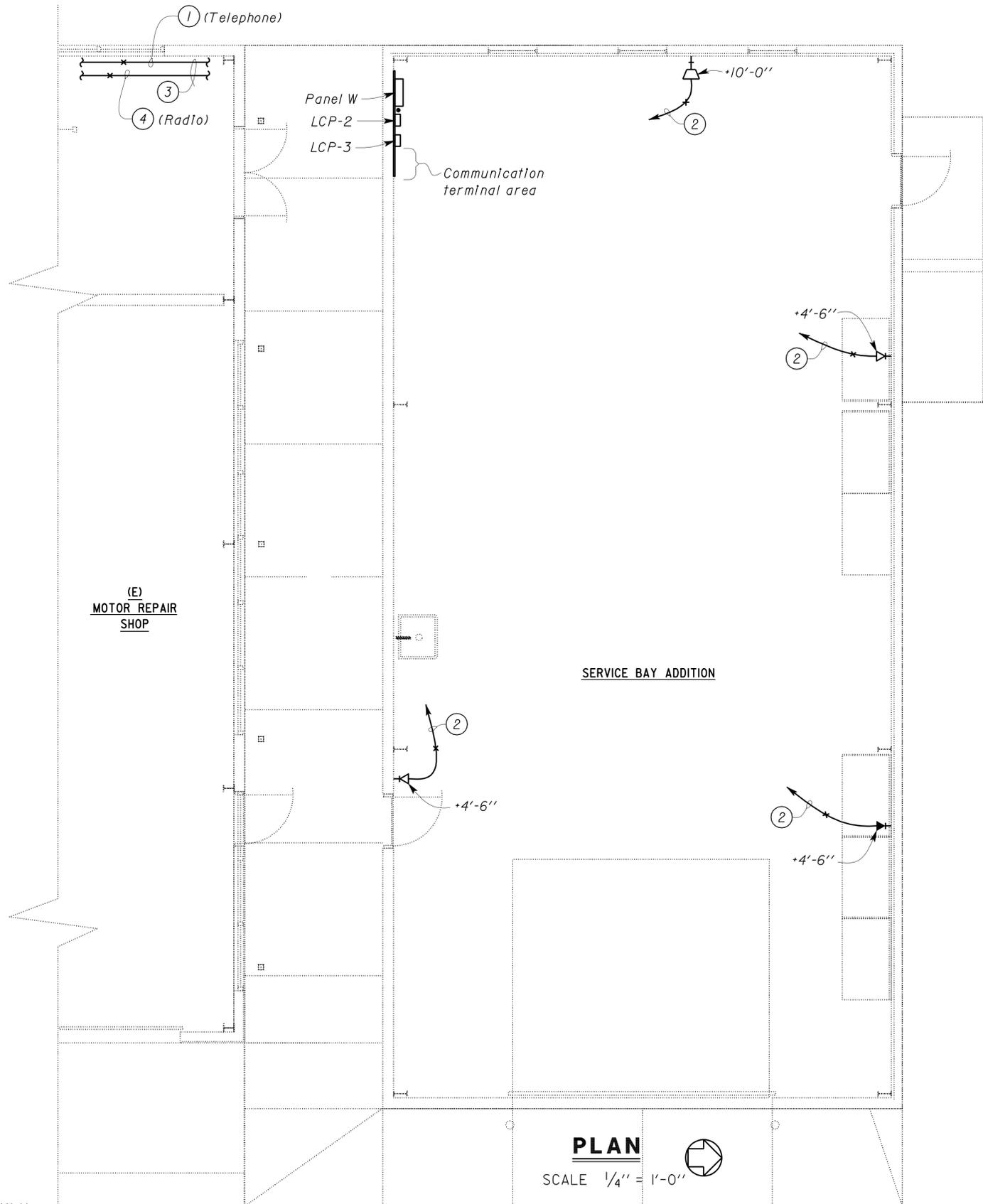
04-JAN-2010 07:27 ee5\_02.dgn

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		99	102

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: <u>Pam Emick</u> PAM EMICK Approval date: 11/12/08		REGISTERED ELECTRICAL ENGINEER DATE 8/27/08	REGISTERED PROFESSIONAL ENGINEER CHI WU No. 10773 Exp. 6-30-09 ELEC STATE OF CALIFORNIA
11-17-08 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.*



- Notes:
- ① 1" C, 2 Category 5 (\*24 AWG, 25 twisted pair) cable.
  - ② 3/4" C, 2 Category 5 (\*24 AWG, 4 twisted pair) cable, to communication terminal area.
  - ③ For continuation, see (EE0-1).
  - ④ 1" C, with pull rope.

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

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN BY <u>Johnny Wu</u> CHECKED <u>Beatrice Bindu</u>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 5505	SHOP 29 FACILITY REMODEL		SHEET EE5-3				
			POST MILE	SERVICE BAY ADDITION	COMMUNICATION PLAN					
DETAILS BY <u>Kathl Andreasen</u> CHECKED <u>Johnny Wu</u>	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	CU 09123 EA 310601	REVISION DATES (PRELIMINARY STAGE ONLY)			SHEET OF				
QUANTITIES BY <u>Johnny Wu</u> CHECKED <u>Beatrice Bindu</u>			DISREGARD PRINTS BEARING EARLIER REVISION DATES	9/19/07	5/24/08		6/7/08	6/20/08	7/16/08	8/15/08

MAIN: 150-AMPERE CIRCUIT BREAKER  
VOLTS: 240/120 V, 3 Ø, 4-WIRE

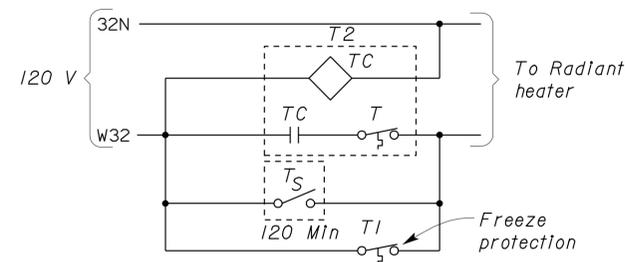
PANEL W

FEEDER SIZE: 4\*3/0  
LOCATION: SERVICE BAY ADDITION

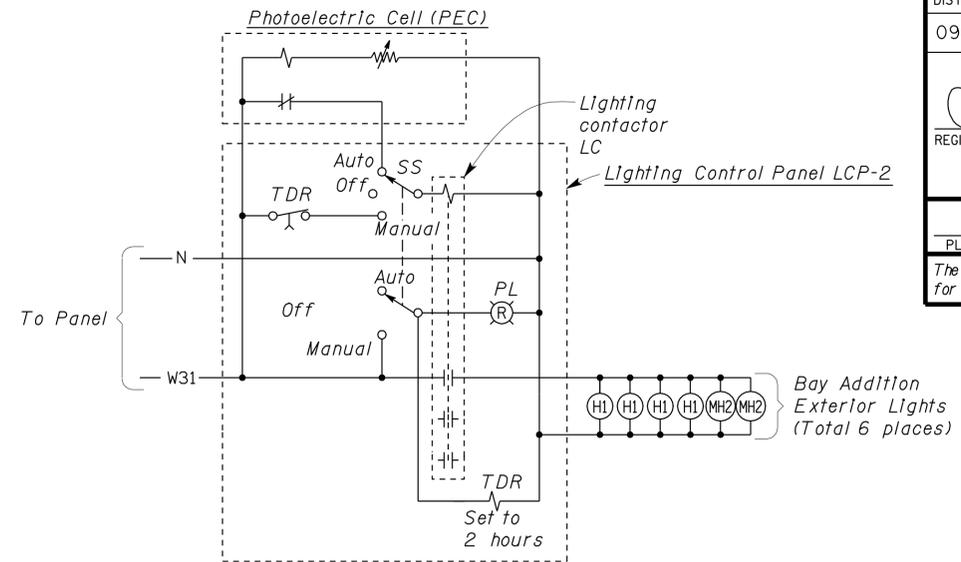
DESCRIPTION	AMPERES			BRK	CKT	A	B	C	CKT	BRK	AMPERES			DESCRIPTION
	A	B	C								A	B	C	
DECLASSIFICATION FAN (EF-1)	3			20/3	1				2	20/3	---	---	---	SPARE
		3			3				4					
			3		5				6					
WELDING RECEPTACLE	28			50/3	7				8	50/3	22			VEHICLE LIFT
		28			9				10		22			
			28		11				12			22		
EVAPORATIVE COOLER (EC-1)	3.5			20/3	13				14	20/3	3.5			EXHAUST EVAC HOSE REEL (EF-3)
		3.5			15				16		3.5			
			3.5		17				18			3.5		
OVERHEAD DOOR OPERATOR	2			15/1	19				20		---	---	---	SPARE
BLANK		---			21				22	30/3	---	---	---	SPARE
RECEPT - NORTH WALL (MULTI-OUTLET)			9	20/1*	23				24		---	---	---	
RECEPT - NORTH AND EAST WALLS	9			20/1*	25				26	20/1	---	---	---	SPARE
SPARE		---			27				28		---	---	---	BLANK
			---		29				30	20/1			14	LIGHTS - NORTH AND SOUTH SIDE
LIGHT - EXTERIOR	5			20/1	31				32	20/1	3			RADIANT HEATER
BLANK		---			33				34		---	---	---	BLANK
RECEPT - NORTH WALL (MULTI-OUTLET)			9	20/1*	35				36	20/1			4	LIGHT - WORK BENCH
FUME EXHAUST FAN (EF-2)	3			20/1	37				38	20/1	14			ELECTRIC WATER HEATER
BLANK		---			39				40		---	---	---	BLANK
RECEPT - SOUTH AND WEST WALLS			7.5	20/1	41				42	20/1			2	RECEPT - REEL LIGHT

\* GFCI TYPE CIRCUIT BREAKER  
\*\* AS REQUIRED BY MANUFACTURER  
B PHASE IS HIGH LEG

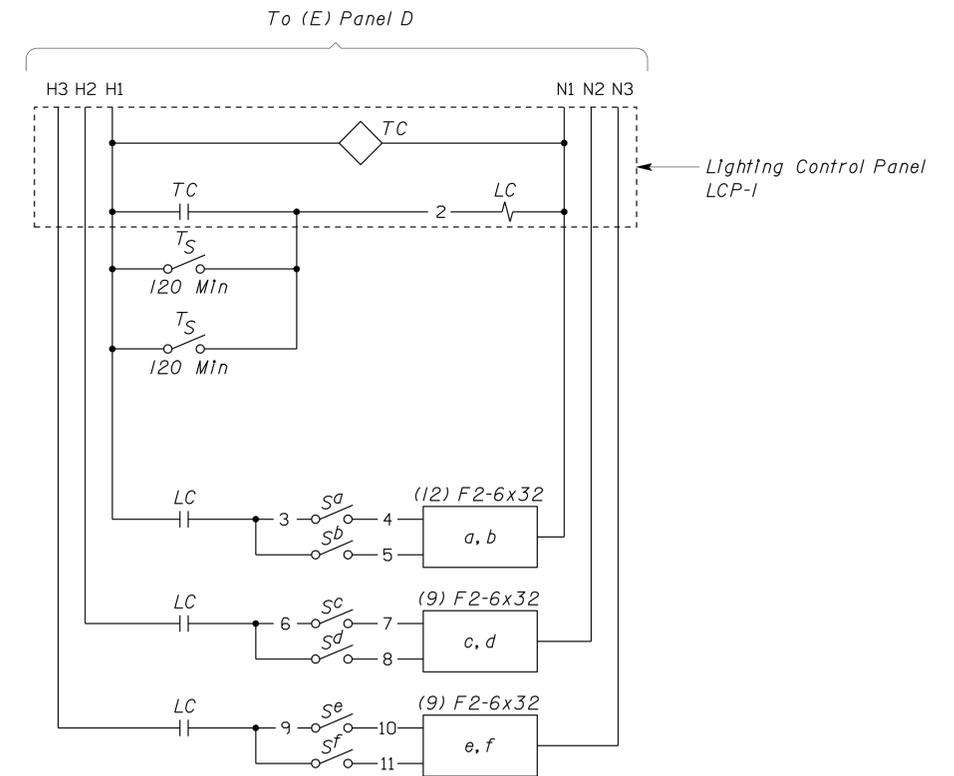
A	B	C	TOTAL CONNECTED LOAD (AMPERES PER PHASE)
96	60	105.5	



**2 SERVICE BAY ADDITION RADIANT HEATER TEMPERATURE CONTROL**  
NO SCALE



**1 SERVICE BAY ADDITION LIGHTING CONTROL PANEL LCP-2**  
NO SCALE



**3 WELDING SHOP LIGHTING CONTROL PANEL LCP-1**  
NO SCALE

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		100	102

REGISTERED ELECTRICAL ENGINEER  
CHI WU  
No. 10773  
Exp. 6-30-09  
ELEC  
STATE OF CALIFORNIA

11-17-08  
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: 11/12/08

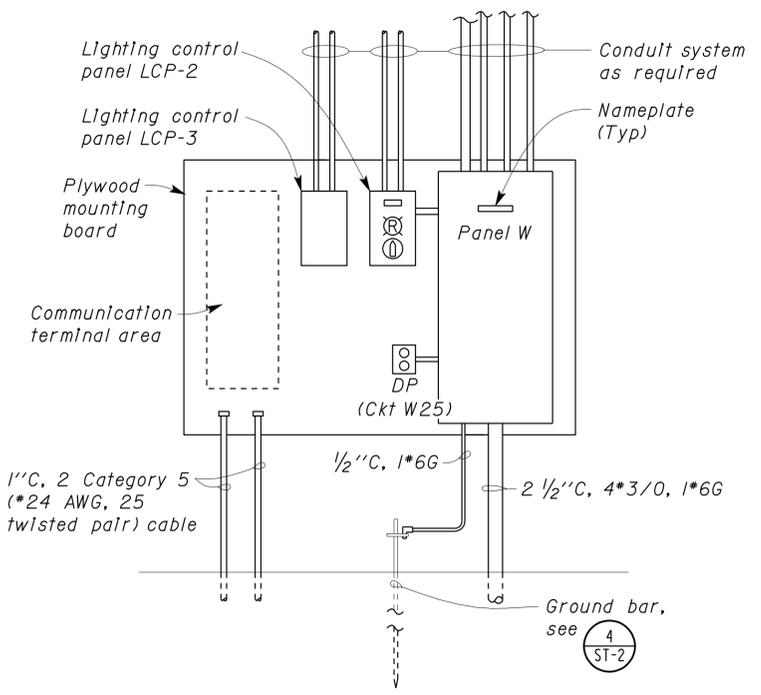
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		101	102

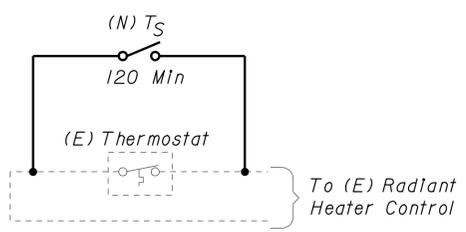
 REGISTERED ELECTRICAL ENGINEER DATE 8/27/08		
11-17-08 PLANS APPROVAL DATE		

*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.*

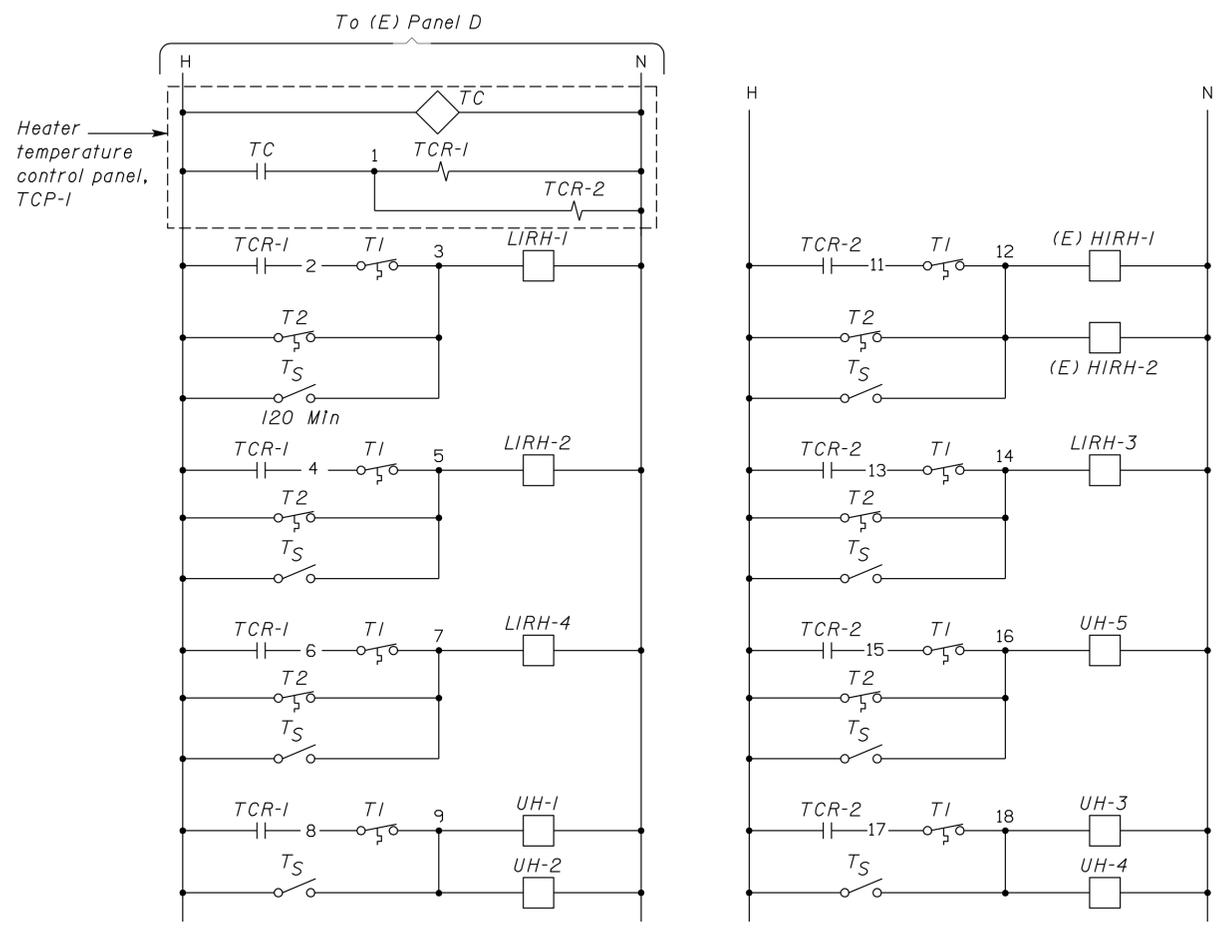
**CALIFORNIA STATE FIRE MARSHAL APPROVED**  
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approvals subject to field inspection. One set of approved plans shall be available on the project site at all times.  
 Reviewed by: Pam Emick  
 PAM EMICK  
 Approval date: 11/12/08



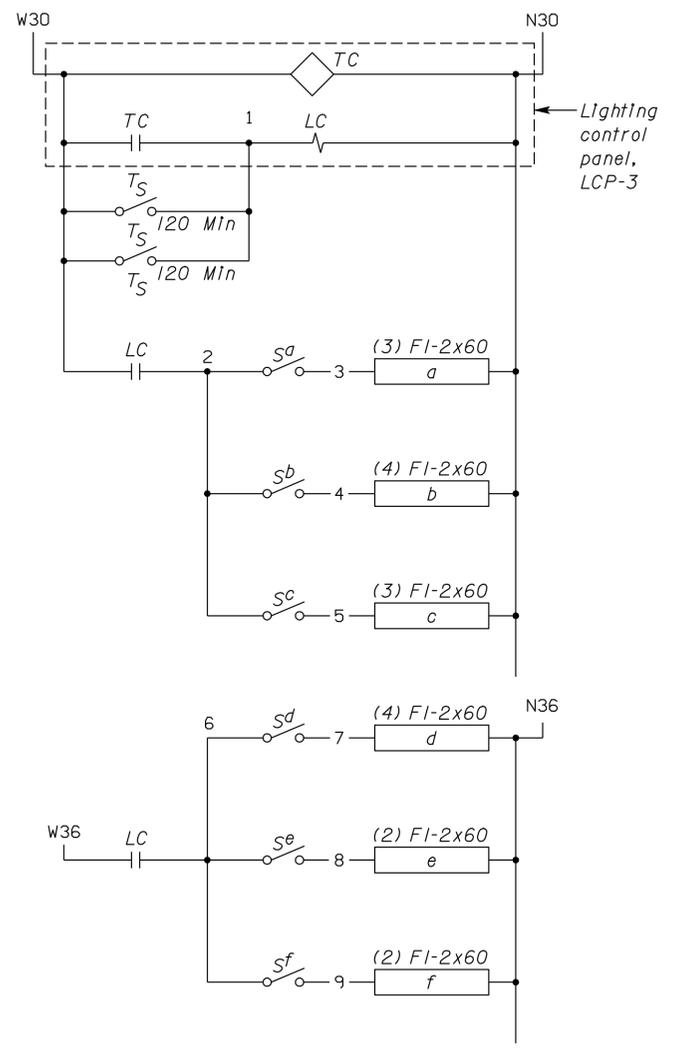
**A ELEVATION**  
 SCALE 3/4" = 1'-0"



**2 WASH RACK RADIANT HEATER TEMPERATURE CONTROL**  
 NO SCALE



**3 WELDING SHOP HEATER TEMPERATURE CONTROL SYSTEM**  
 NO SCALE

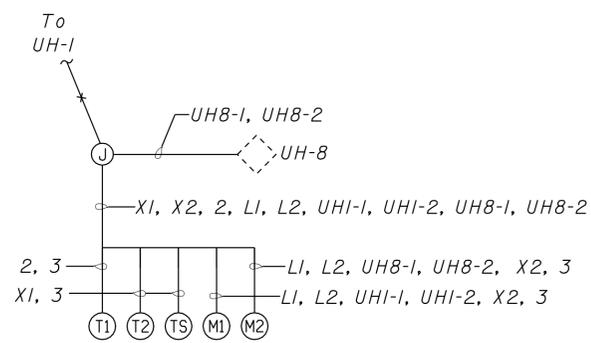
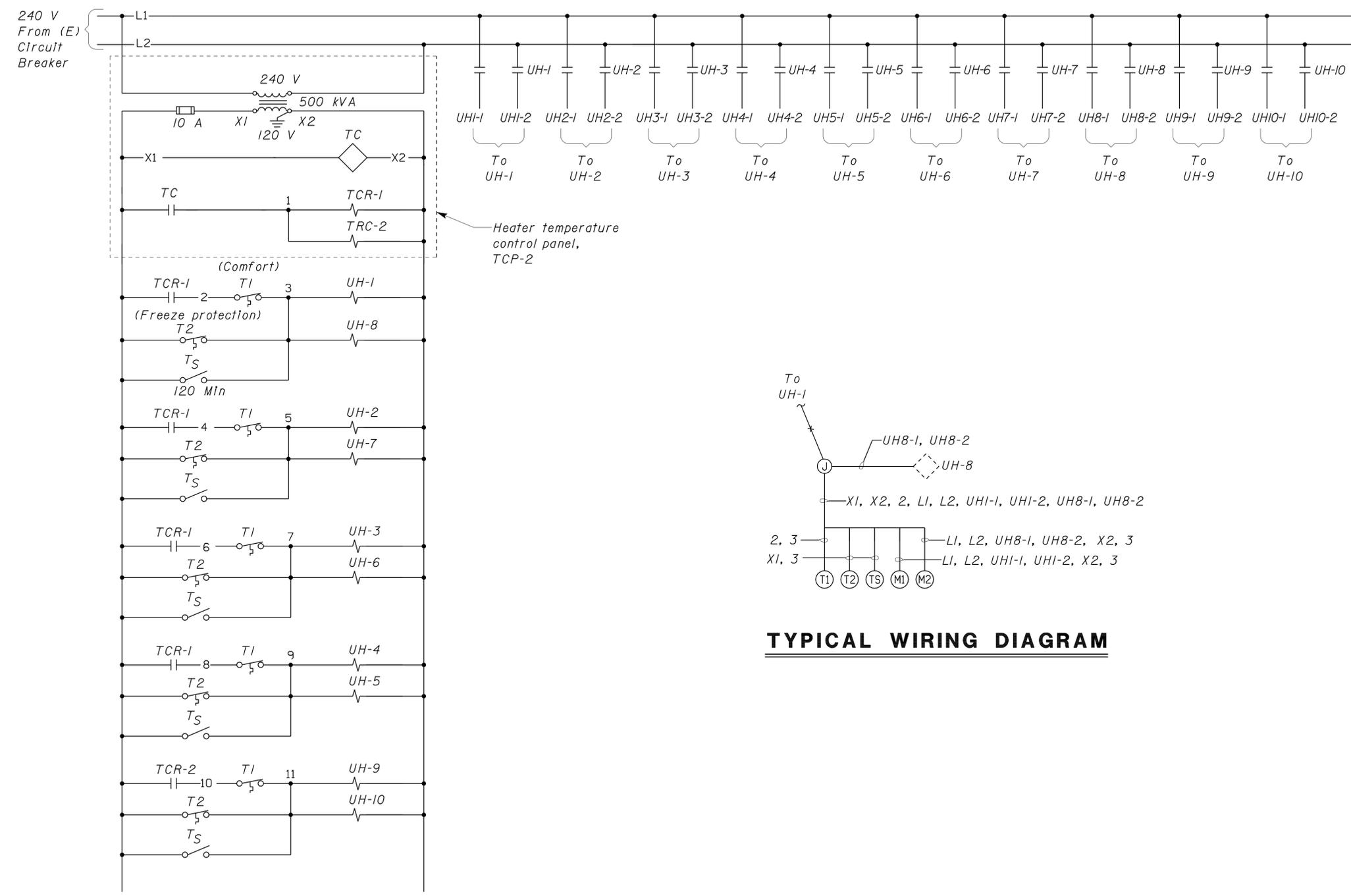


**4 SERVICE BAY ADDITION LIGHTING CONTROL PANEL LCP-3**  
 NO SCALE

DESIGN	BY Johnny Wu	CHECKED Beatrice Bindu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 5505	SHOP 29 FACILITY REMODEL PANEL ELEVATION AND DETAILS	SHEET EE6-2	
	DETAILS BY Andreasen/Monson	CHECKED Johnny Wu			POST MILE			
	QUANTITIES BY Johnny Wu	CHECKED Beatrice Bindu						
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			0 1 2 3	CU 09123 EA 310601	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
DOES SD Imperial Rev.1/07							10/24/07 6/28/08 7/28/08 7/28/08 7/28/08 8/27/08 5/28/08 6/25/08	ee6_02.dgn

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Iny	5505		102	102
 REGISTERED ELECTRICAL ENGINEER DATE 8/27/08					
11-17-08					
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: 11/12/08



**TYPICAL WIRING DIAGRAM**

**1 MOTOR REPAIR SHOP HEATER TEMPERATURE CONTROL SYSTEM**  
 NO SCALE

DESIGN	BY Johnny Wu	CHECKED Beatrice Bindu
DETAILS	BY Linda Monson	CHECKED Johnny Wu
QUANTITIES	BY Johnny Wu	CHECKED Beatrice Bindu

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

BRIDGE NO.	5505	SHOP 29 FACILITY REMODEL	WIRING DIAGRAM	SHEET OF
POST MILE				

SHEET **EE6-3**