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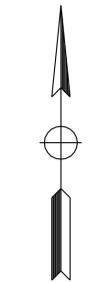
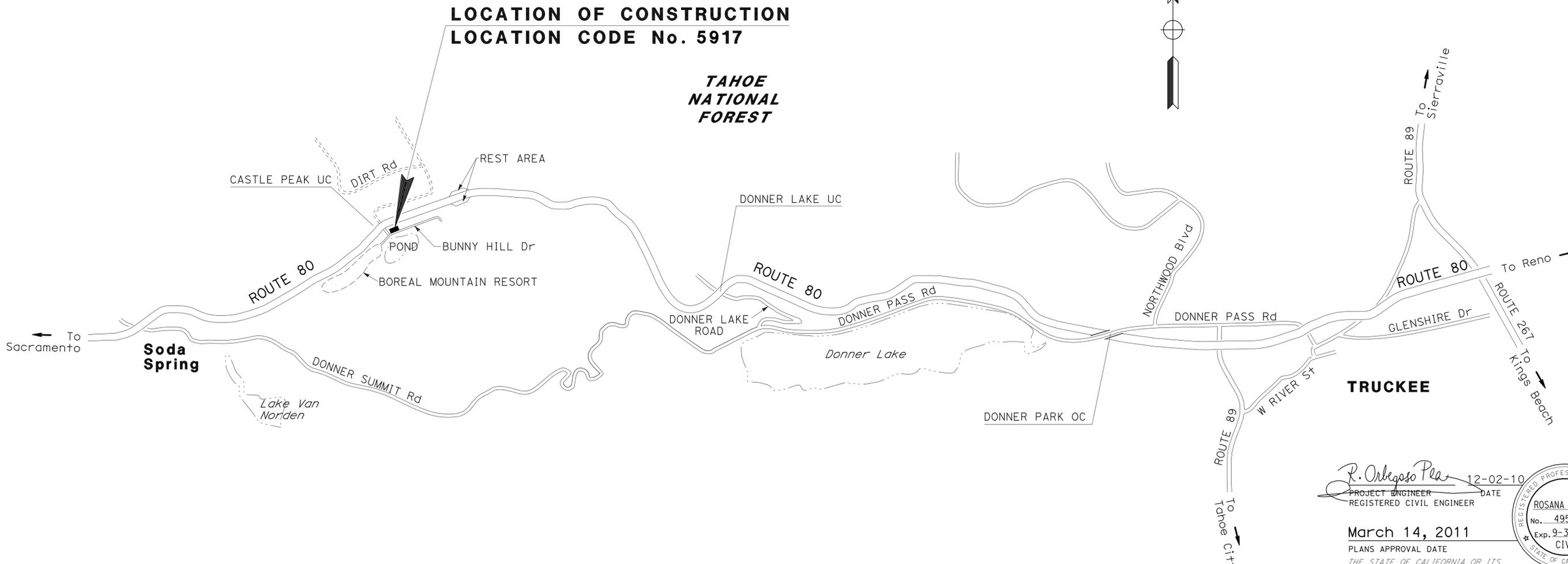
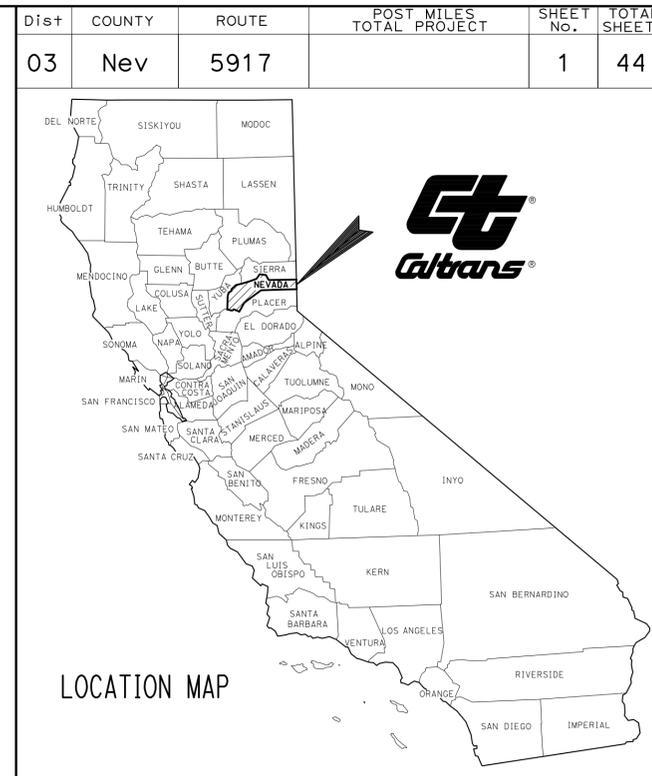
BUILDING PLANS

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

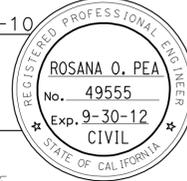
STATE OF CALIFORNIA  
**DEPARTMENT OF TRANSPORTATION**  
**PROJECT PLANS FOR CONSTRUCTION ON**  
**STATE HIGHWAY**  
**IN NEVADA COUNTY**  
**ABOUT 6.0 MILES WEST OF TRUCKEE**  
**AT CASTLE PEAK SAND HOUSE**

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



PROJECT MANAGER  
 DESIGN ENGINEER  
**JOHNY TAN**

*R. Orlegoso Pea* 12-02-10  
 PROJECT ENGINEER DATE  
 REGISTERED CIVIL ENGINEER  
**March 14, 2011**  
 PLANS APPROVAL DATE  
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



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

NO SCALE

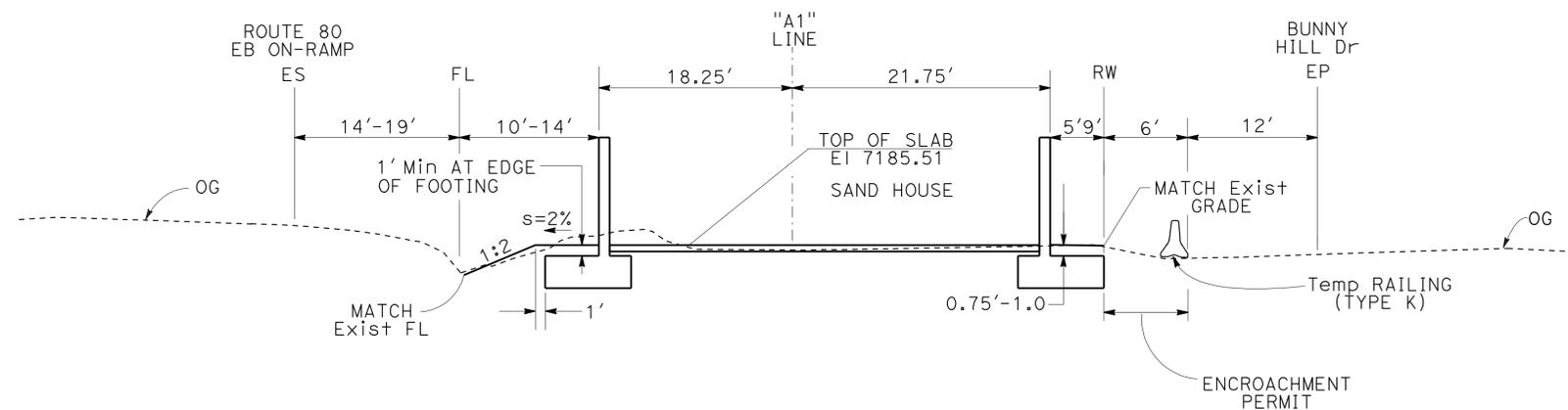
CONTRACT No.	<b>03-4E8804</b>
PROJECT ID	<b>0300000727</b>

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Nev	5917		2	44
<i>R. Orbegoso Pea</i> REGISTERED CIVIL ENGINEER			12-02-10 DATE		
3-14-11 PLANS APPROVAL DATE					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

**NOTE:**

SEE BUILDING PLANS FOR SAND HOUSE WALL AND FLOOR DETAILS.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR
<b>Caltrans</b> DIVISION OF ENGINEERING	JOHNY TAN	JOHNY TAN	R. ORBEGOSO PEA
		CHECKED BY	R. ORBEGOSO PEA



**TYPICAL CROSS SECTIONS**

NO SCALE

**X-1**



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Nev	5917		3	44

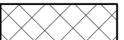
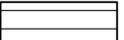
<i>R. Orbegoso Pea</i>	12-02-10
REGISTERED CIVIL ENGINEER	DATE
3-14-11	
PLANS APPROVAL DATE	

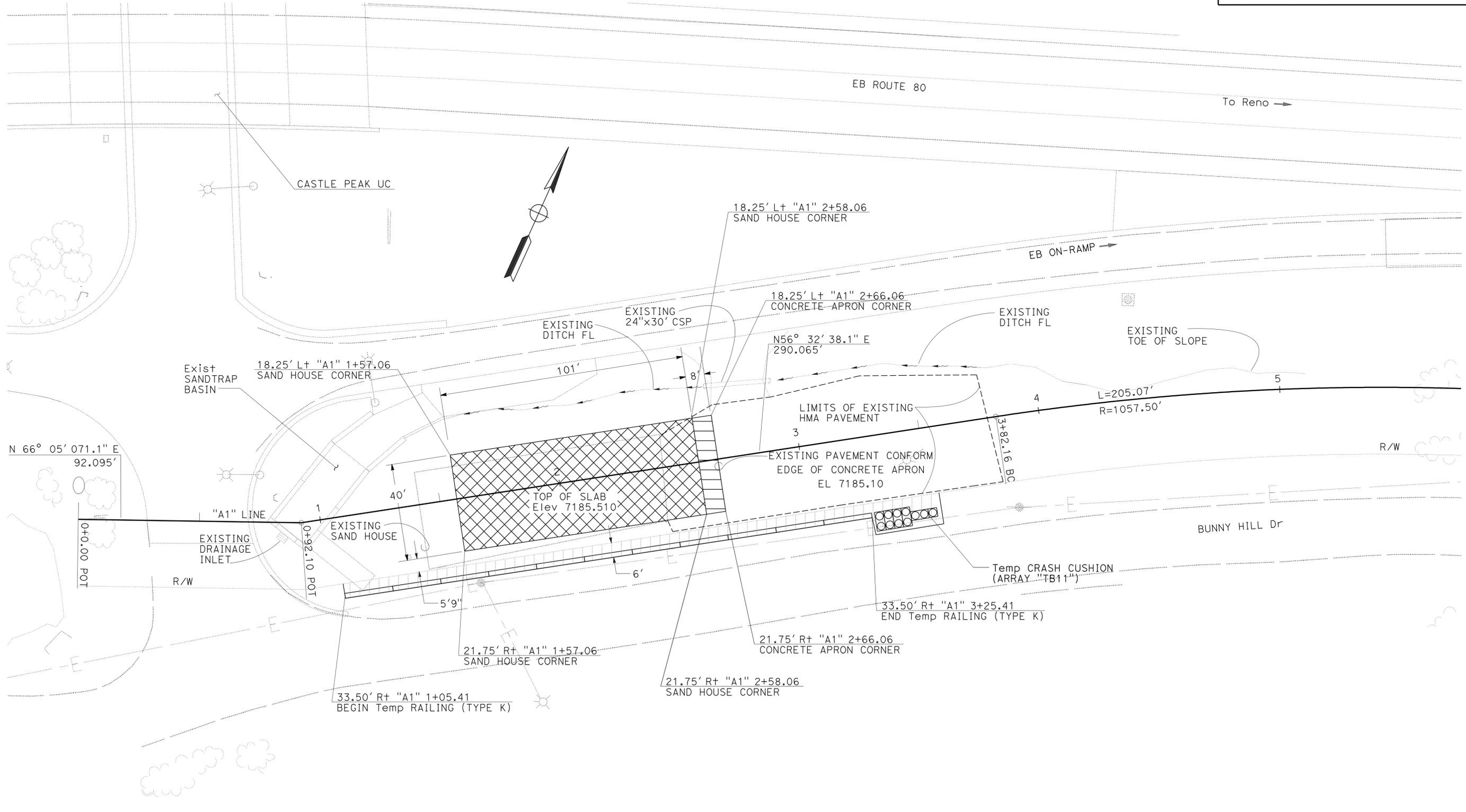
  

REGISTERED PROFESSIONAL ENGINEER
ROSANA O. PEA
No. 49555
Exp. 9-30-12
CIVIL

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

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

- LEGEND:**
-  NEW SAND HOUSE BUILDING
  -  SAND HOUSE CONCRETE APRON
  -  ENCROACHMENT PERMIT AREA



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** DIVISION OF ENGINEERING  
 FUNCTIONAL SUPERVISOR: JOHNY TAN  
 CALCULATED/DESIGNED BY: R. ORBEGOSO PEA  
 CHECKED BY: R. ORBEGOSO PEA  
 REVISED BY: R. ORBEGOSO PEA  
 DATE REVISED:

**LAYOUT**  
SCALE: 1" = 20'  
**L-1**

LAST REVISION: DATE PLOTTED => 24-MAR-2011  
 00-00-00 TIME PLOTTED => 11:29

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Nev	5917		4	44

R. Orbegoso Pea 12-02-10  
REGISTERED CIVIL ENGINEER DATE

3-14-11  
PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER  
ROSANA O. PEA  
No. 49555  
Exp. 9-30-12  
CIVIL  
STATE OF CALIFORNIA

### STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

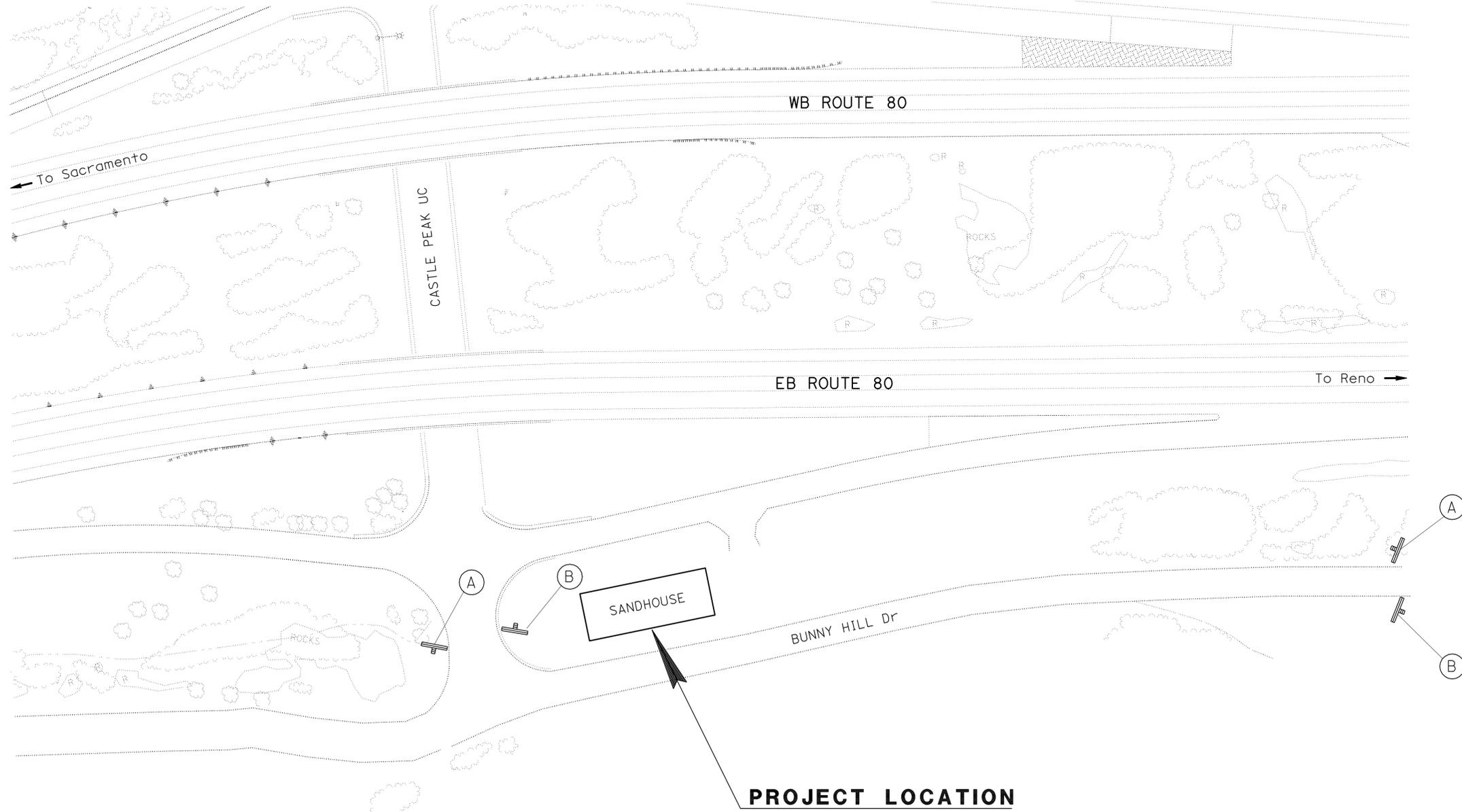
SIGN LETTER	SIGN CODE		PANEL SIZE	SIGN MESSAGE	NUMBER OF POST AND SIZE	NUMBER OF SIGNS
	FEDERAL	CALIFORNIA				
(A)	W20-1		36" x 36"	ROAD WORK AHEAD	1-4" x 6"	2
(B)	G20-2		36" x 18"	END ROAD WORK	1-4" x 4"	2

**LEGEND:**

- (XX) CONSTRUCTION AREA SIGN LETTER
-  SIGN - SINGLE POST

**NOTES:**

SIGN LOCATIONS SHOWN ARE APPROXIMATE.



NO SCALE

## CONSTRUCTION AREA SIGNS

CS-1

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

FUNCTIONAL SUPERVISOR: JOHNY TAN

REVISOR: R. ORBEGOSO PEA

DESIGNER: R. ORBEGOSO PEA

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Nev	5917		5	44

*R. Orbegoso Pea* 12-02-10  
REGISTERED CIVIL ENGINEER DATE

3-14-11  
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
**ROSANA O. PEA**  
No. 49555  
Exp. 9-30-12  
CIVIL  
STATE OF CALIFORNIA

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

**TEMPORARY WATER POLLUTION CONTROL QUANTITY SUMMARY**

LOCATION	SHEET No.	TEMPORARY GRAVEL BAG BERM	TEMPORARY COVER	TEMPORARY DRAINAGE INLET PROTECTION	TEMPORARY FIBER ROLL
		LF	SQYD	EA	LF
①	L-1	70	170	1	400
TOTAL		70	170	1	400

**PERMANENT EROSION CONTROL ITEMS**

LOCATION	SHEET No.	STATION	EROSION CONTROL (COMPOST BLANKET)		RECP (NETTING)
			(N) COMPOST	(N) PURE LIVE SEED	
			CY	LB	SQFT
①	L-1	Lt. "A1" Sta 1+0.00 TO 2+66.06	36	2.11	3900
TOTAL				36	3900

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

**TRAFFIC HANDLING QUANTITIES**

LOCATION	TEMPORARY RAILING (TYPE K)	TEMPORARY CRASH CUSHION MODULE
	LF	EA
L-1	220	11

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** DIVISION OF ENGINEERING  
FUNCTIONAL SUPERVISOR: JOHNY TAN  
CALCULATED/DESIGNED BY: R. ORBEGOSO PEA  
CHECKED BY: R. ORBEGOSO PEA  
REVISED BY: R. ORBEGOSO PEA  
DATE REVISED:

**SUMMARY OF QUANTITIES**

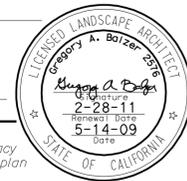
NO SCALE

**Q-1**



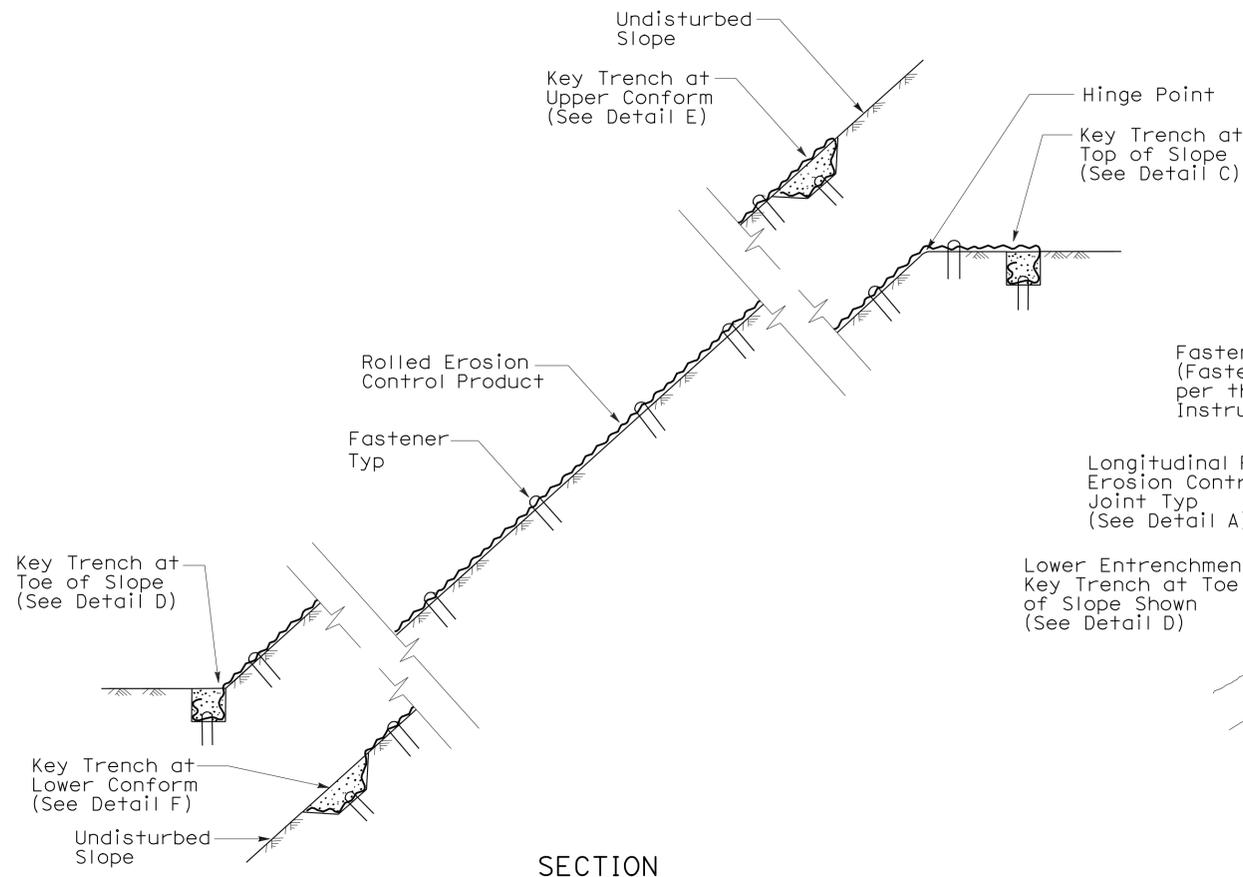
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Nev	5917		6	44

*Suzanne A. Balzer*  
 LICENSED LANDSCAPE ARCHITECT  
 June 5, 2009  
 PLANS APPROVAL DATE  
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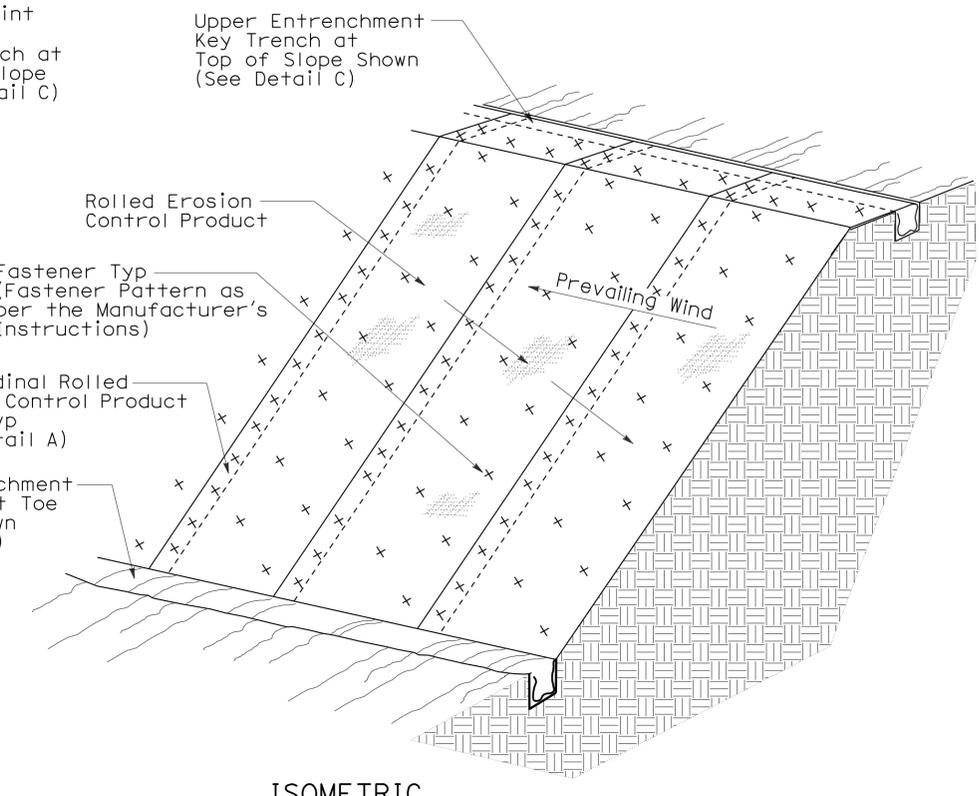


To accompany plans dated 3-14-11

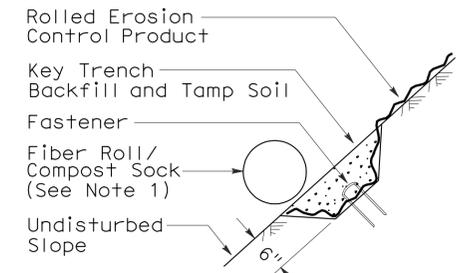
- NOTE:**
1. Fiber Roll/Compost Sock shown for reference purposes only.
  2. If transverse rolled erosion control product joints are required on slopes, see Detail B.



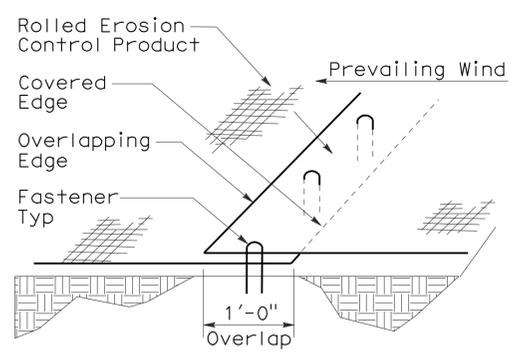
**SECTION**  
**ROLLED EROSION CONTROL PRODUCT**  
**ON SLOPE WITH VARIOUS KEY ENTRENCHMENTS**



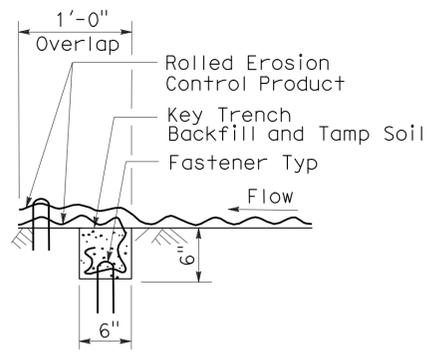
**ISOMETRIC**  
**ROLLED EROSION CONTROL PRODUCT**  
**ON SLOPE**



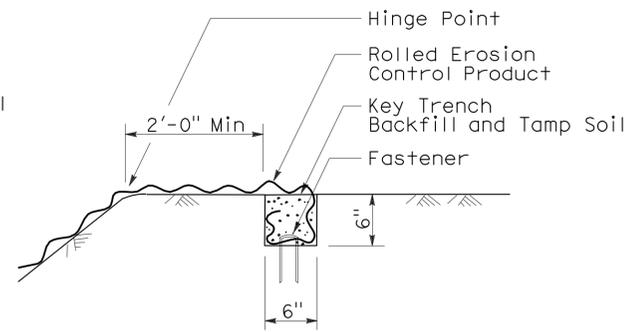
**SECTION**  
**DETAIL F**  
**KEY TRENCH AT**  
**LOWER CONFORM**



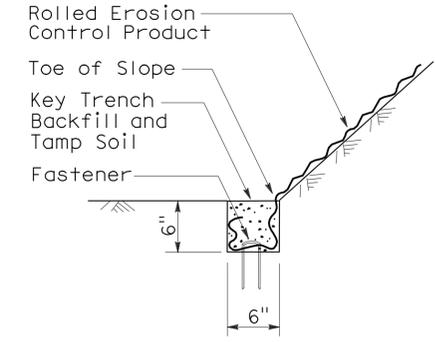
**PERSPECTIVE**  
**DETAIL A**  
**LONGITUDINAL ROLLED EROSION**  
**CONTROL PRODUCT JOINT**



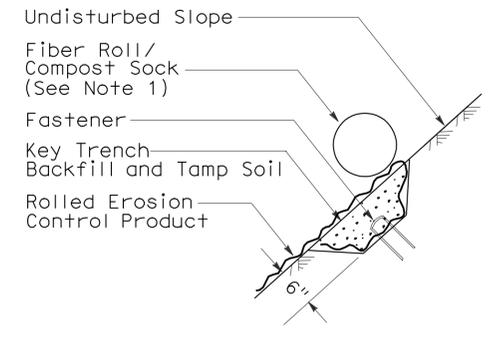
**SECTION**  
**DETAIL B**  
**TRANSVERSE ROLLED EROSION**  
**CONTROL PRODUCT JOINT**



**SECTION**  
**DETAIL C**  
**KEY TRENCH AT**  
**TOP OF SLOPE**



**SECTION**  
**DETAIL D**  
**KEY TRENCH AT**  
**TOE OF SLOPE**



**SECTION**  
**DETAIL E**  
**KEY TRENCH AT**  
**UPPER CONFORM**

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**ROLLED EROSION CONTROL PRODUCT**  
 NO SCALE  
 NSP H53 DATED JUNE 5, 2009 SUPPLEMENTS  
 THE STANDARD PLANS BOOK DATED MAY 2006.

2006 NEW STANDARD PLAN NSP H53

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Nev	5917		7	44

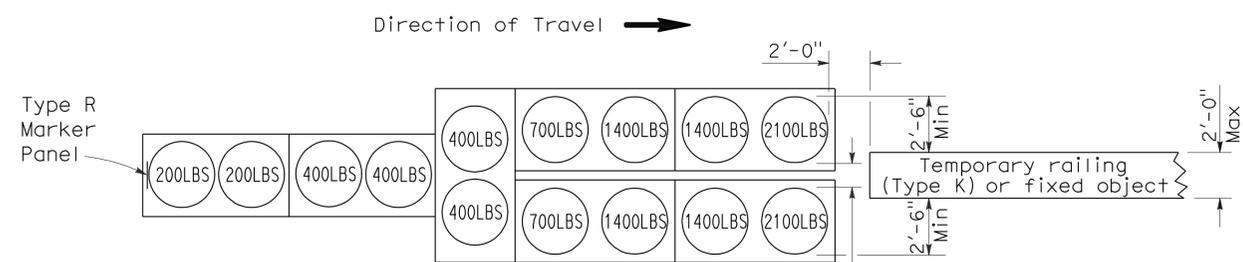
*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

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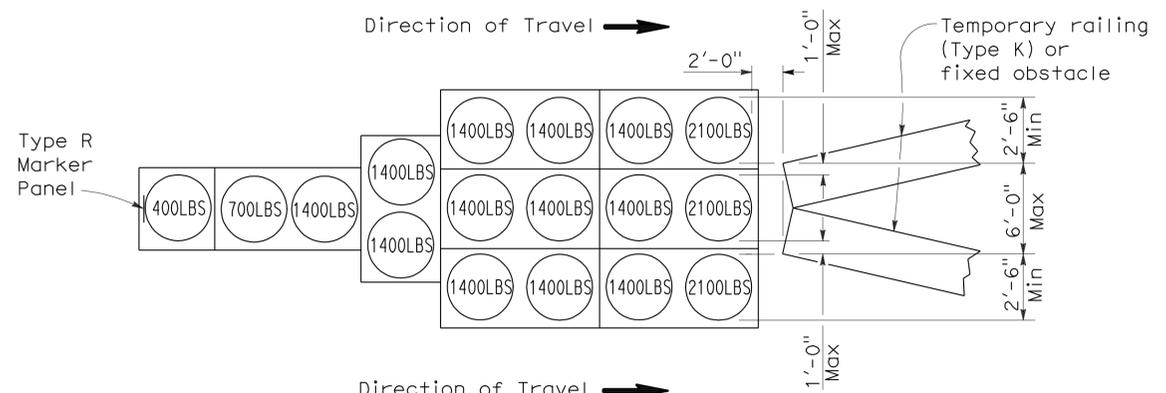
REGISTERED PROFESSIONAL ENGINEER  
Randell D. Hiatt  
No. C50200  
Exp. 6-30-09  
CIVIL  
STATE OF CALIFORNIA

To accompany plans dated 3-14-11



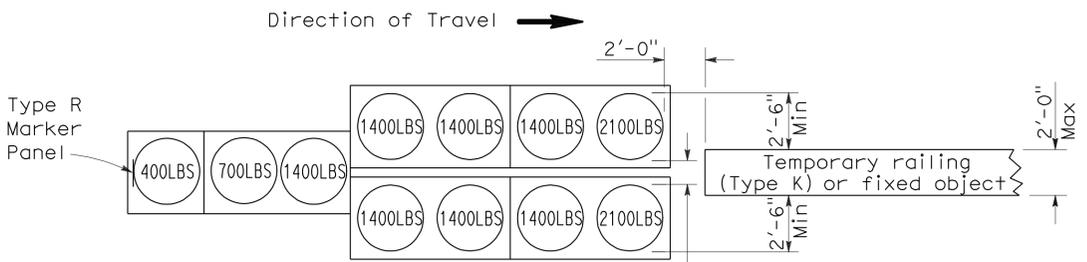
**ARRAY 'TU14'**

Approach speed 45 mph or more



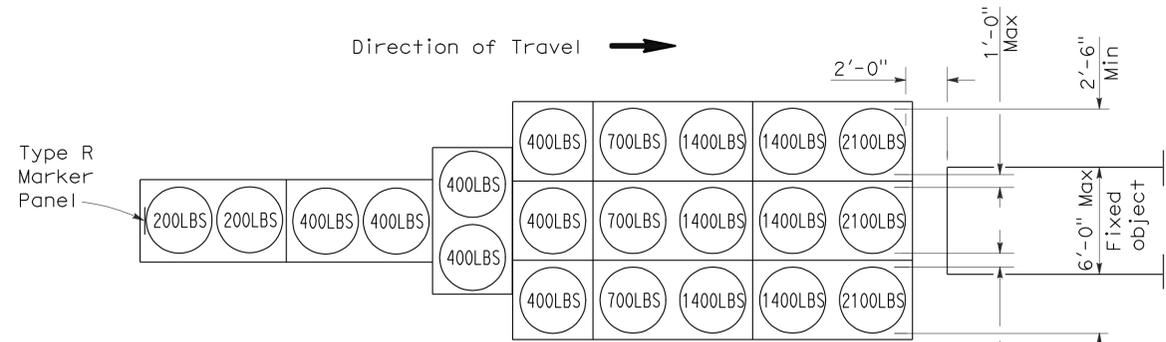
**ARRAY 'TU17'**

Approach speed less than 45 mph



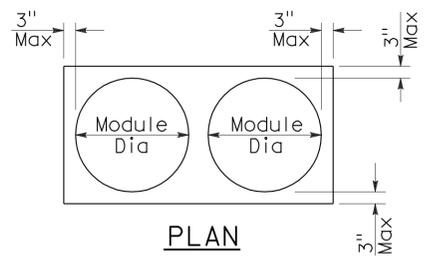
**ARRAY 'TU11'**

Approach speed less than 45 mph

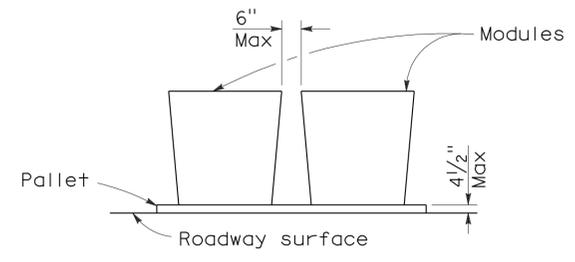


**ARRAY 'TU21'**

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**

2006 REVISED STANDARD PLAN RSP T1A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Nev	5917		8	44

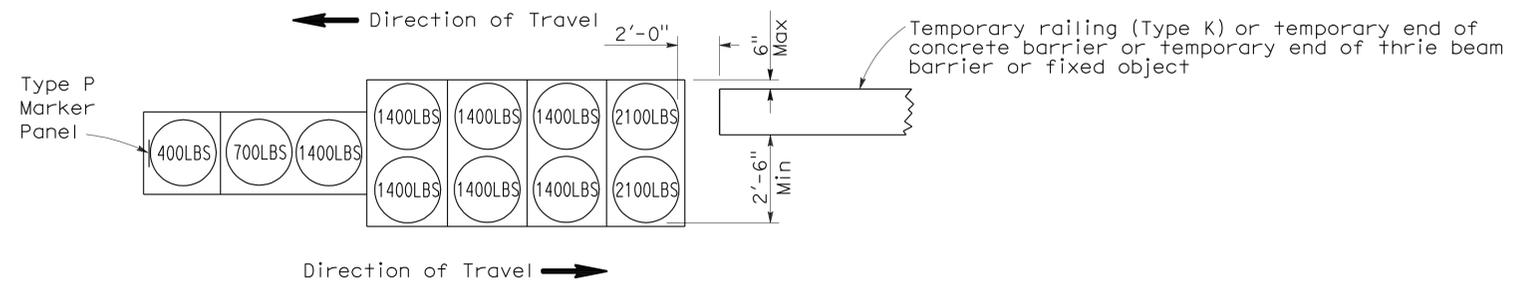
*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

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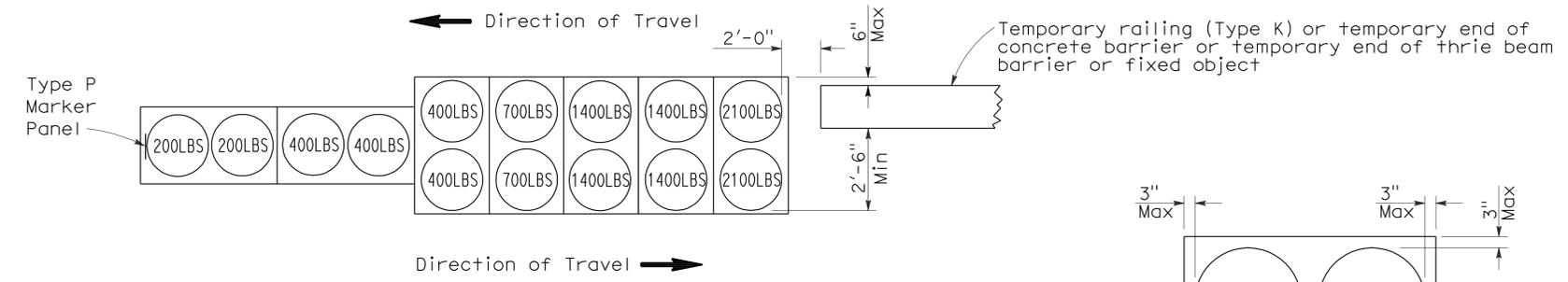
REGISTERED PROFESSIONAL ENGINEER  
Randell D. Hiatt  
No. C50200  
Exp. 6-30-09  
CIVIL  
STATE OF CALIFORNIA

To accompany plans dated 3-14-11



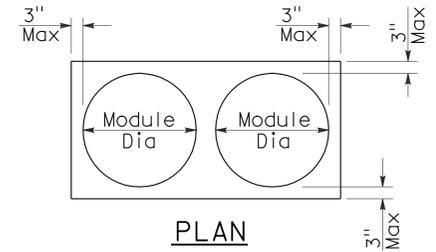
**ARRAY 'TB11'**

Approach speed less than 45 mph

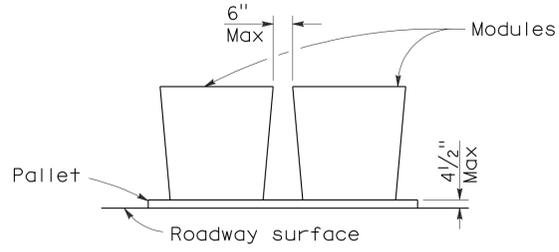


**ARRAY 'TB14'**

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
03	Nev	5917		9	44

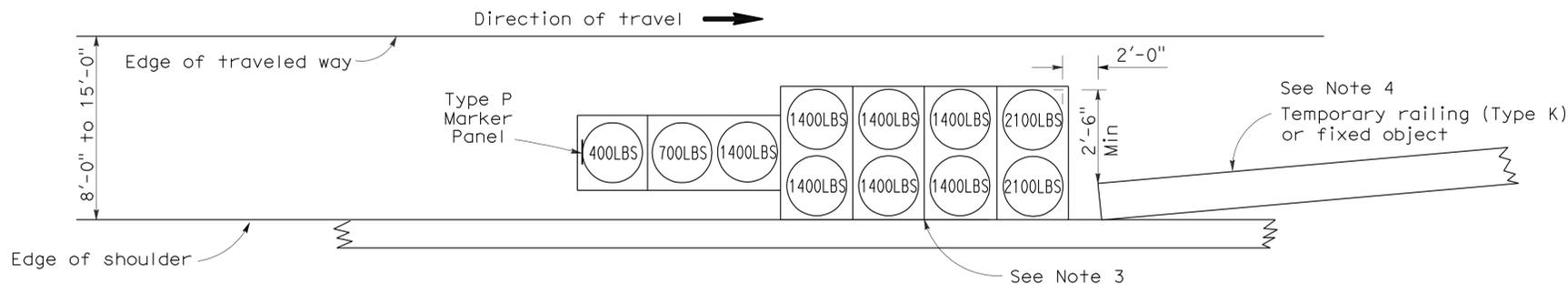
*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

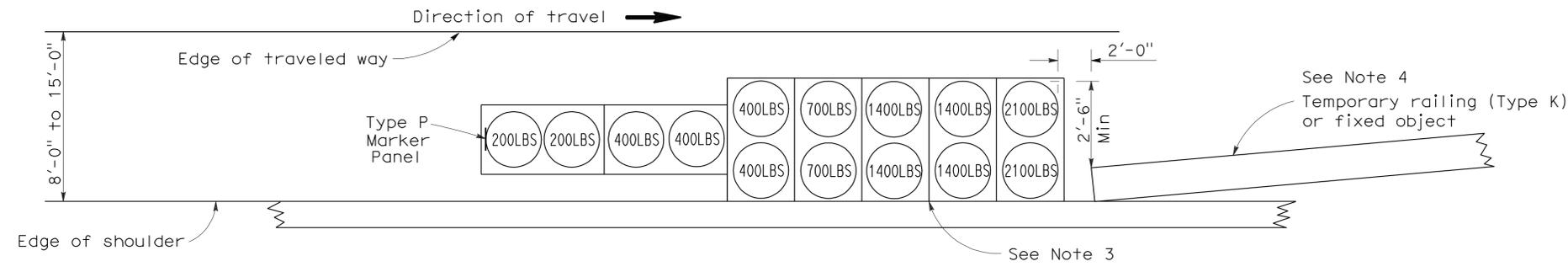
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REGISTERED PROFESSIONAL ENGINEER  
Randell D. Hiatt  
No. C50200  
Exp. 6-30-09  
CIVIL  
STATE OF CALIFORNIA

To accompany plans dated 3-14-11



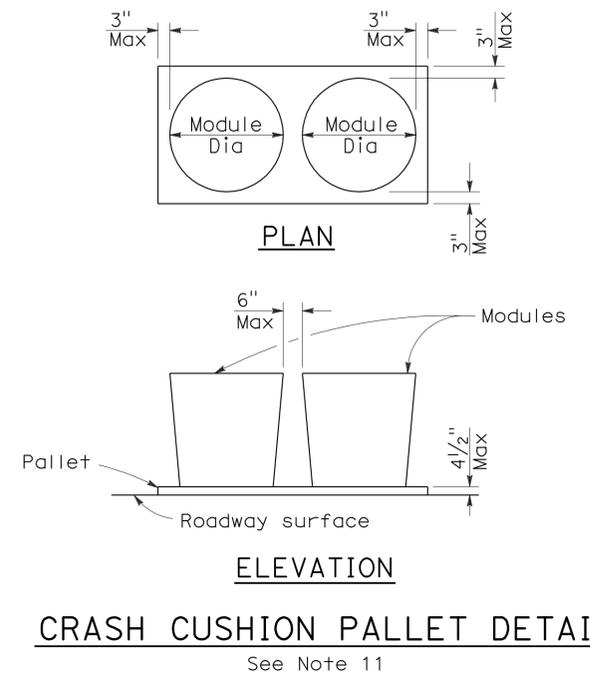
**ARRAY 'TS11'**  
Approach speed less than 45 mph  
See Note 9



**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.



STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

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

NO SCALE

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

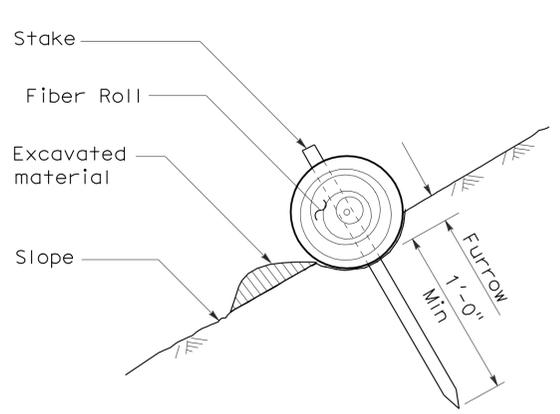
**REVISED STANDARD PLAN RSP T2**

2006 REVISED STANDARD PLAN RSP T2

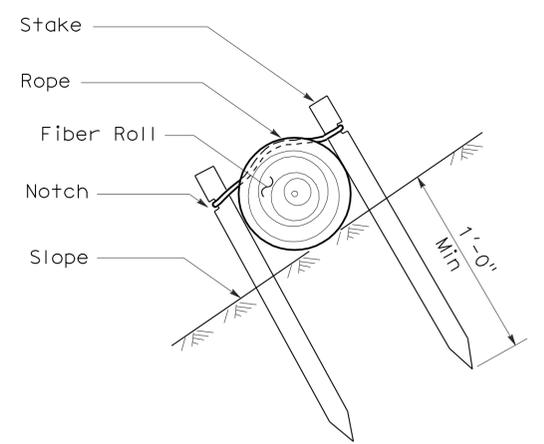
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Nev	5917		10	44

*Robert B. Schott*  
 LICENSED LANDSCAPE ARCHITECT  
 April 3, 2009  
 PLANS APPROVAL DATE  
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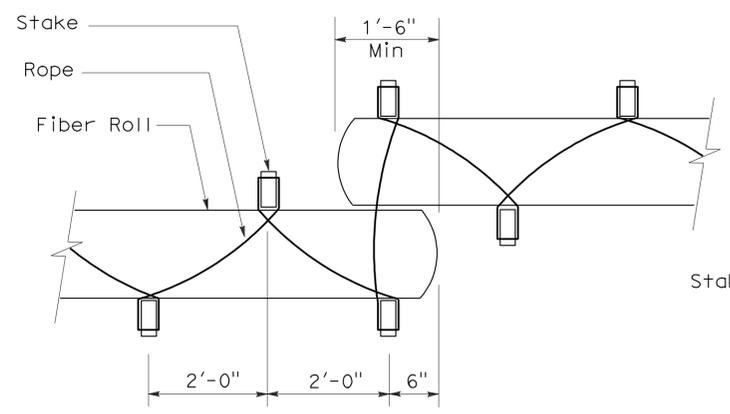
To accompany plans dated 3-14-11



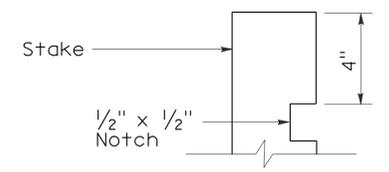
**SECTION**  
**TEMPORARY FIBER ROLL (TYPE 1)**



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

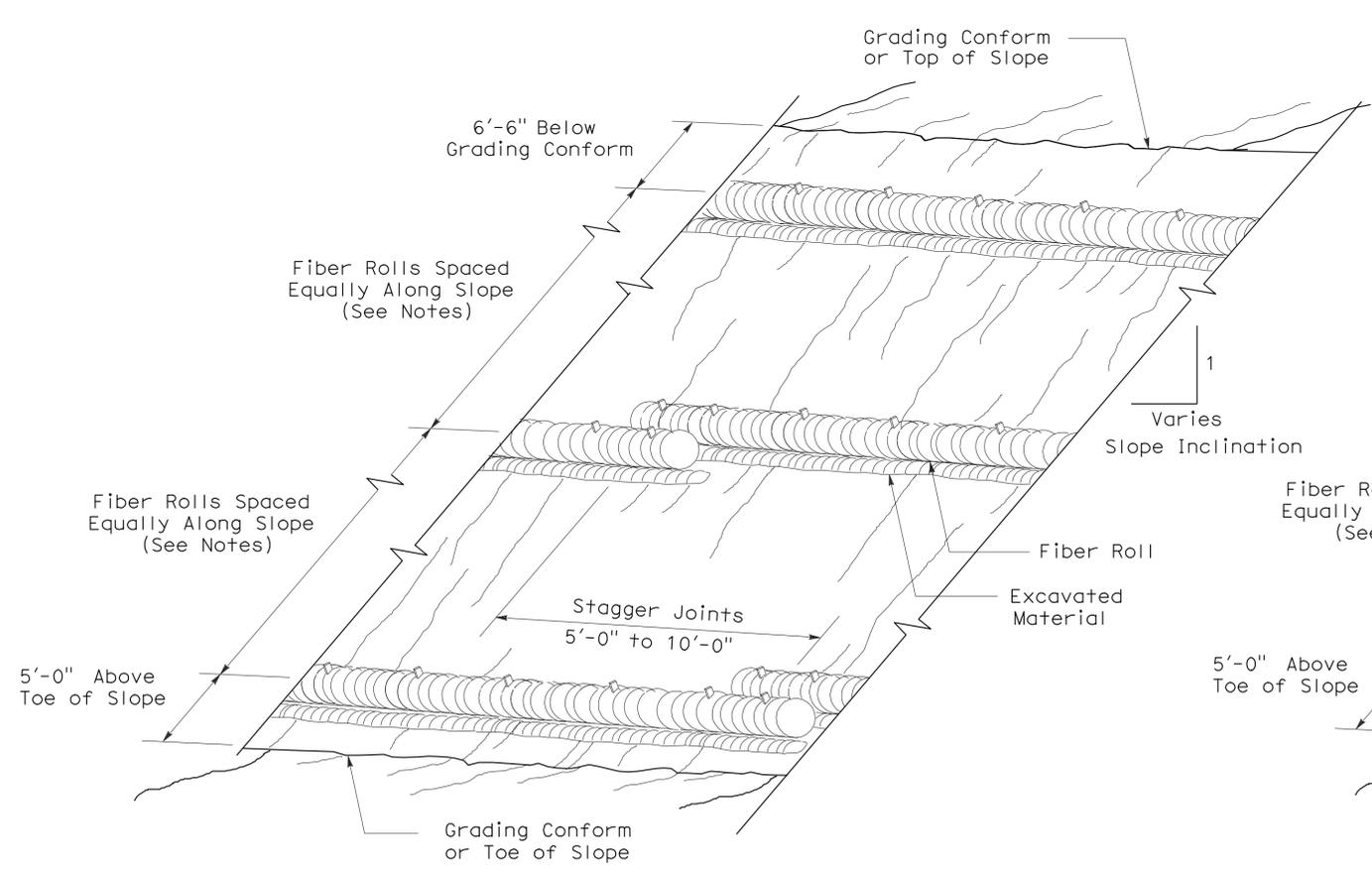


**PLAN**

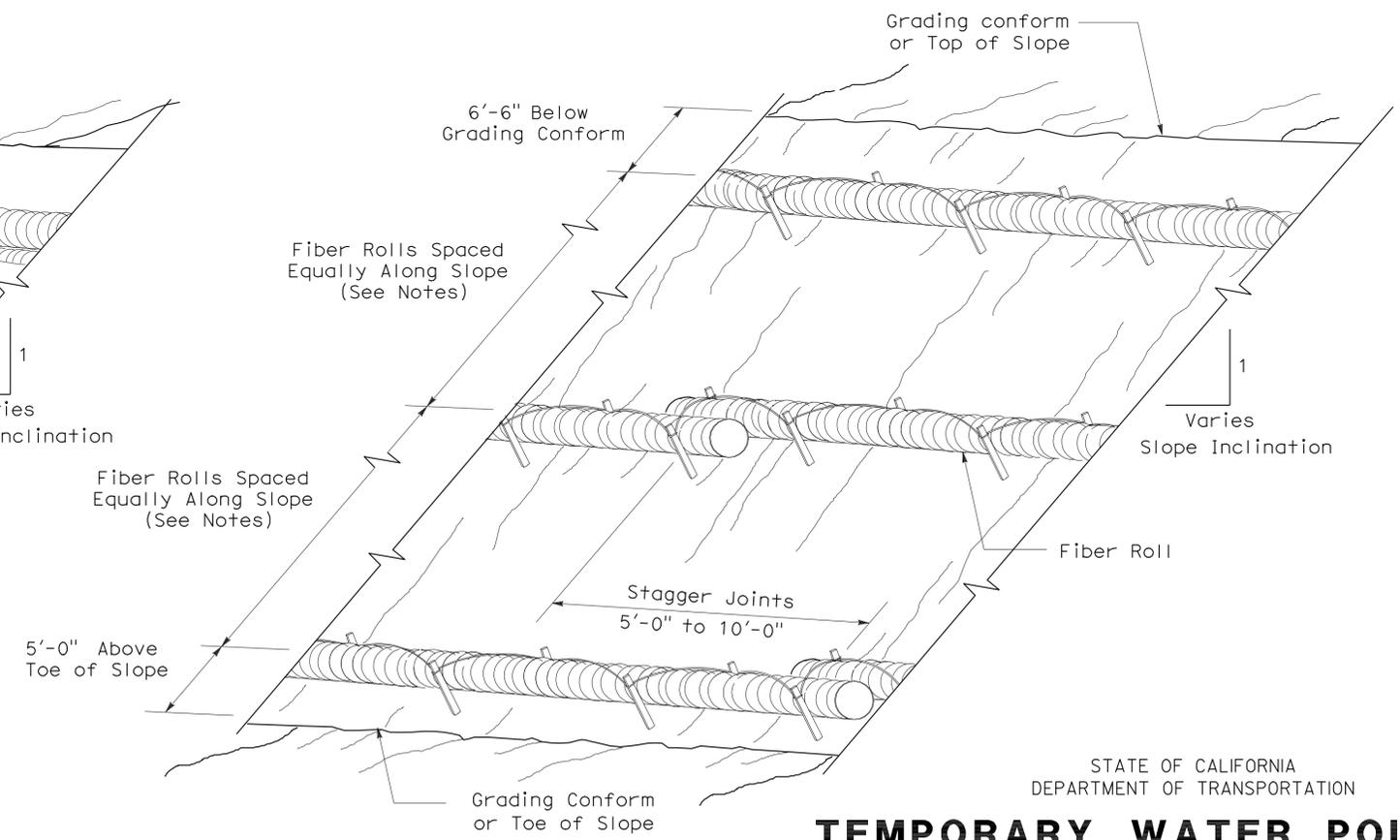


**ELEVATION**  
**STAKE NOTCH DETAIL**

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



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



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

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY FIBER ROLL)**  
 NO SCALE

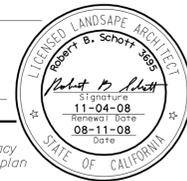
RSP T56 DATED APRIL 3, 2009 SUPERSEDES STANDARD PLAN T56 DATED MAY 1, 2006 - PAGE 232 OF THE STANDARD PLANS BOOK DATED MAY 2006.

**REVISED STANDARD PLAN RSP T56**

2006 REVISED STANDARD PLAN RSP T56

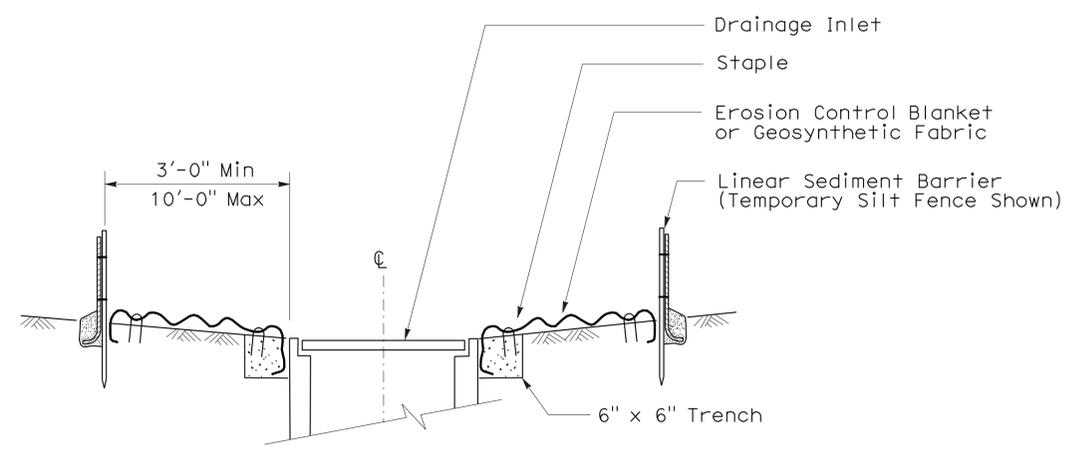
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Neu	5917		11	44

*Robert B. Schott*  
 LICENSED LANDSCAPE ARCHITECT  
 August 15, 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.

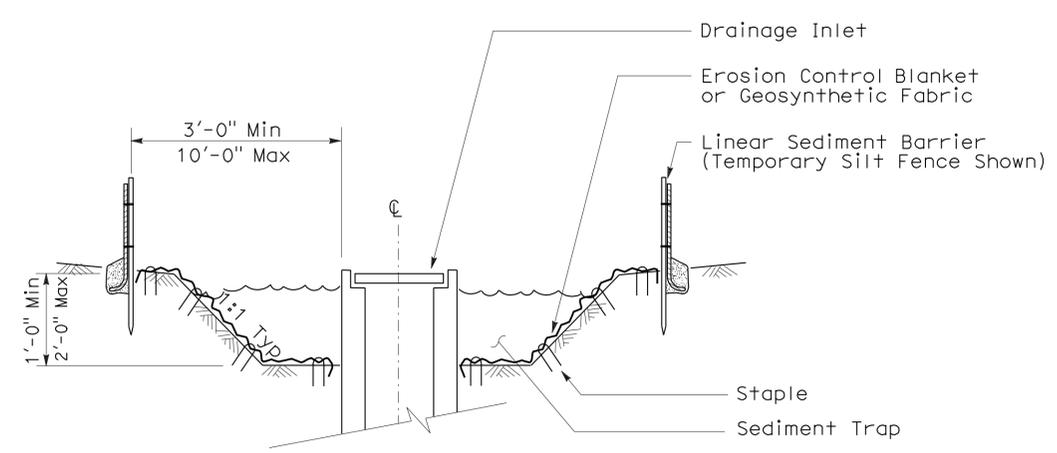


To accompany plans dated 3-14-11

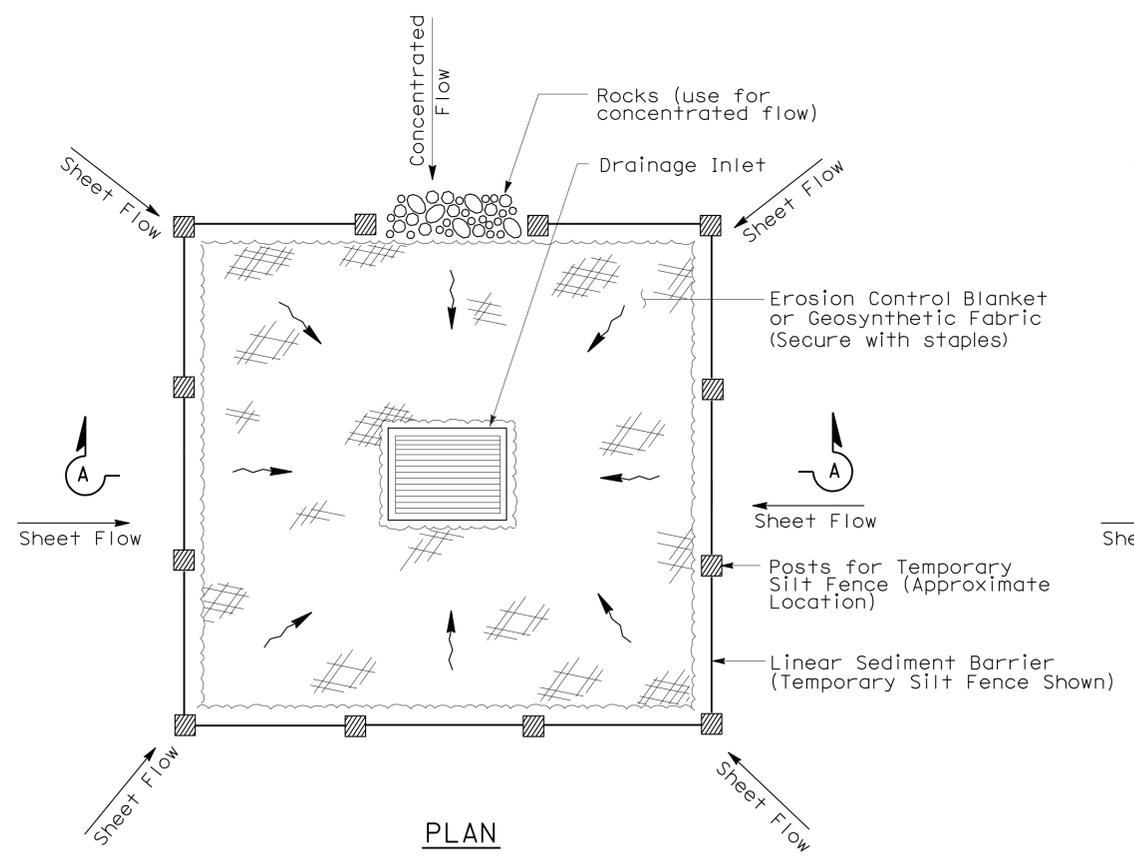
- NOTES:**
- See Standard Plan T51 for Temporary Silt Fence.
  - Dimensions may vary to fit field conditions.



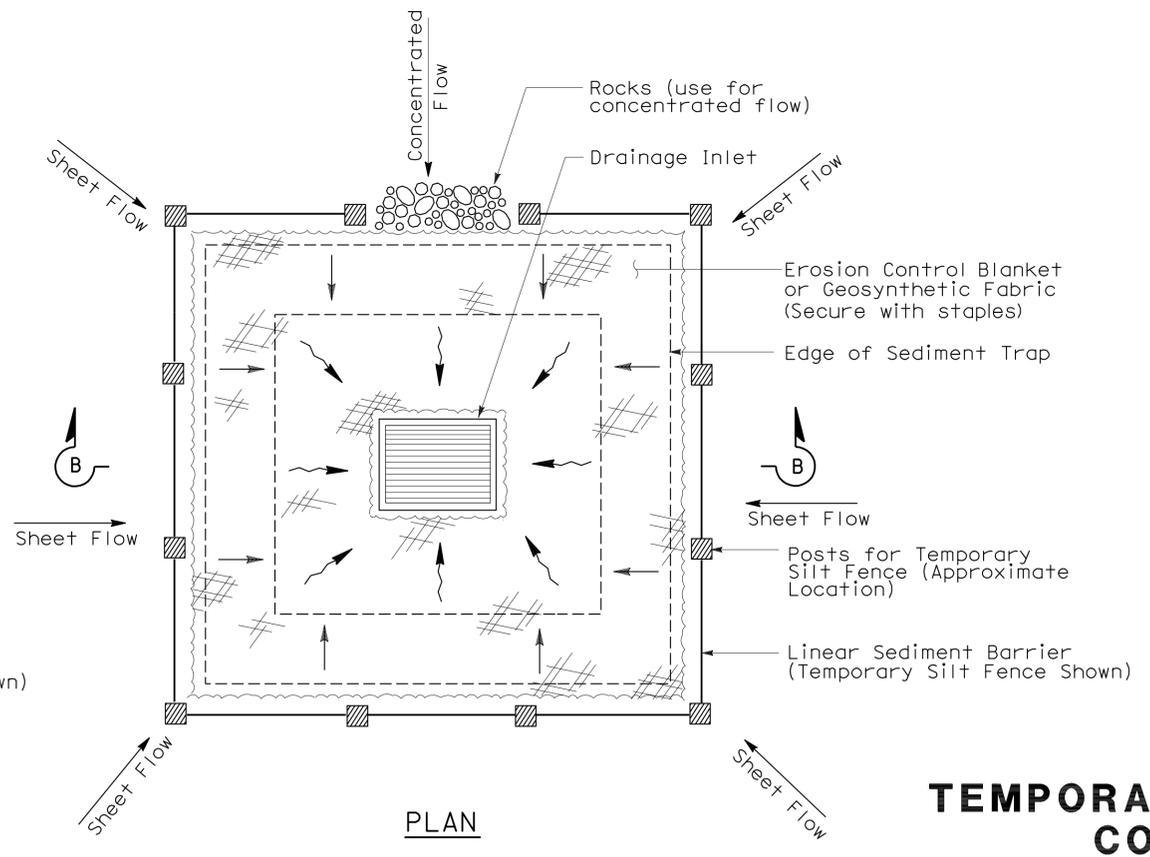
**SECTION A-A**



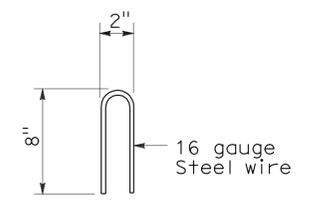
**SECTION B-B**



**TEMPORARY DRAINAGE INLET PROTECTION (TYPE 1)**



**TEMPORARY DRAINAGE INLET PROTECTION (TYPE 2) (EXCAVATED SEDIMENT TRAP)**



**STAPLE DETAIL**

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY DRAINAGE INLET PROTECTION)**  
 NO SCALE

NSP T61 DATED AUGUST 15, 2008 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

2006 NEW STANDARD PLAN NSP T61

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Neu	5917		12	44

*Robert B. Schott*  
 LICENSED LANDSCAPE ARCHITECT

August 15, 2008  
 PLANS APPROVAL DATE

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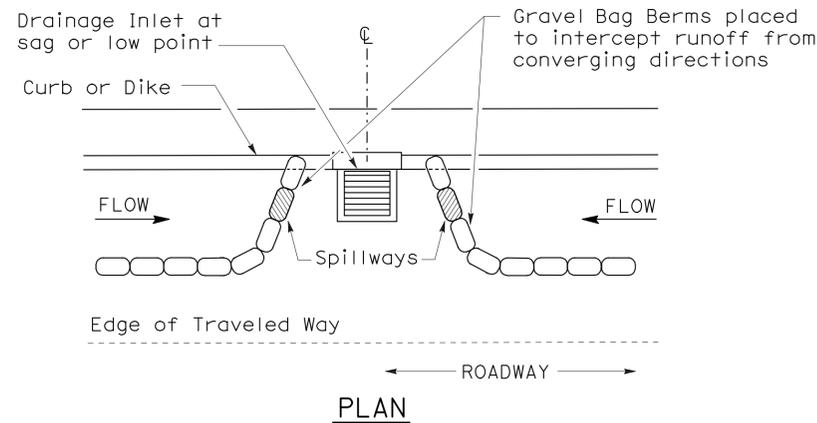
To accompany plans dated 3-14-11

2006 NEW STANDARD PLAN NSP T62

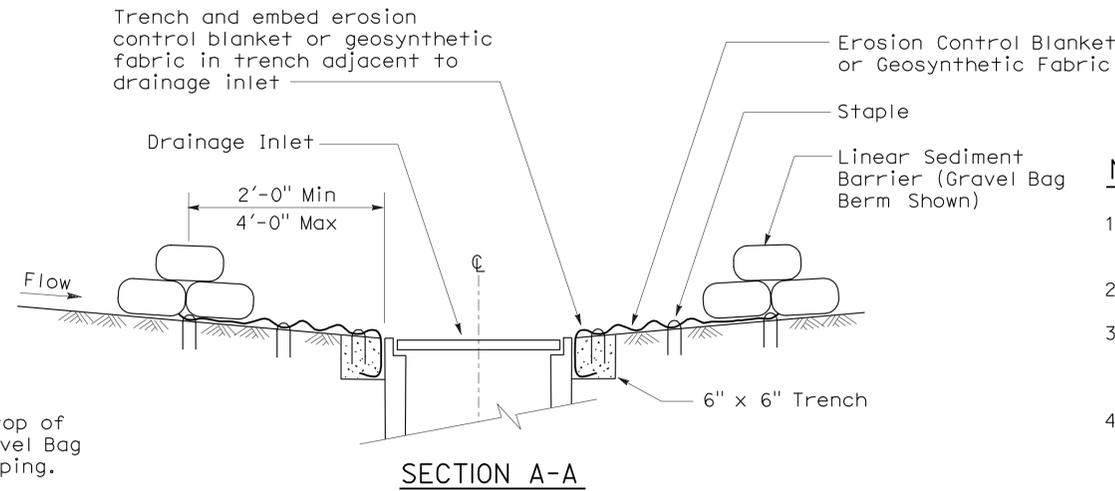
**GRAVEL BAG BERM (TYPE 3A) SPACING TABLE**

SLOPE OF ROADWAY (PERCENT)	1 to 3.9	4 to 5.9	6 to 7.9	8 to 10	10+
INTERVAL BETWEEN BERM	100'	75'	50'	25'	12'

For slope of less than 1%, install barriers only if erosion/sediment is prevalent



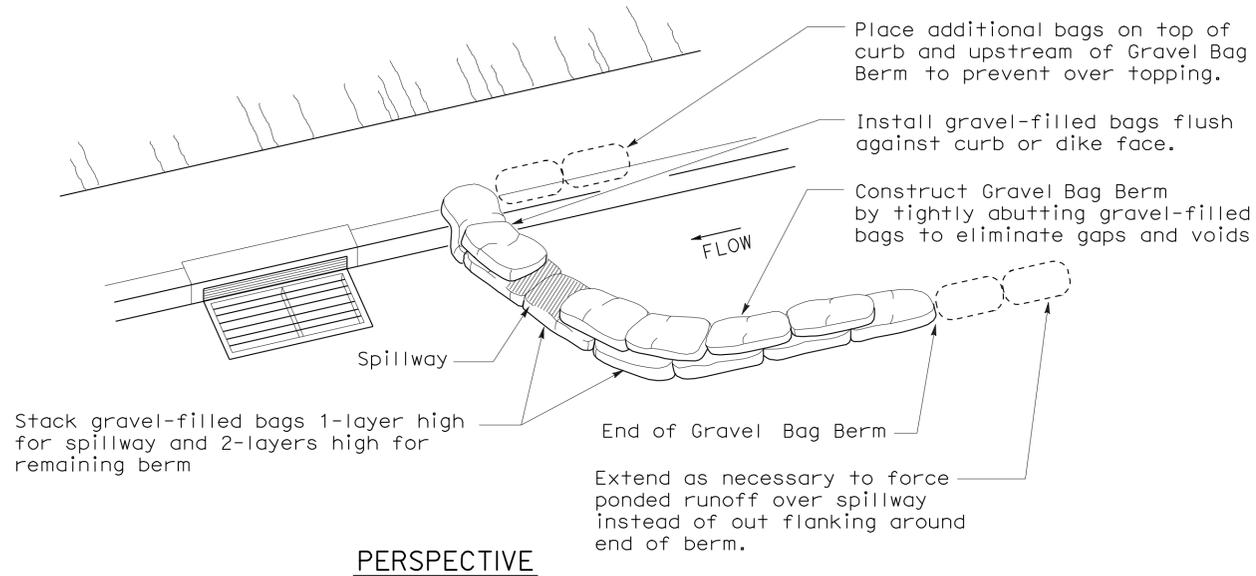
**PLAN**  
**CONFIGURATION FOR SAG POINT INLET (GRAVEL BAG BERM)**



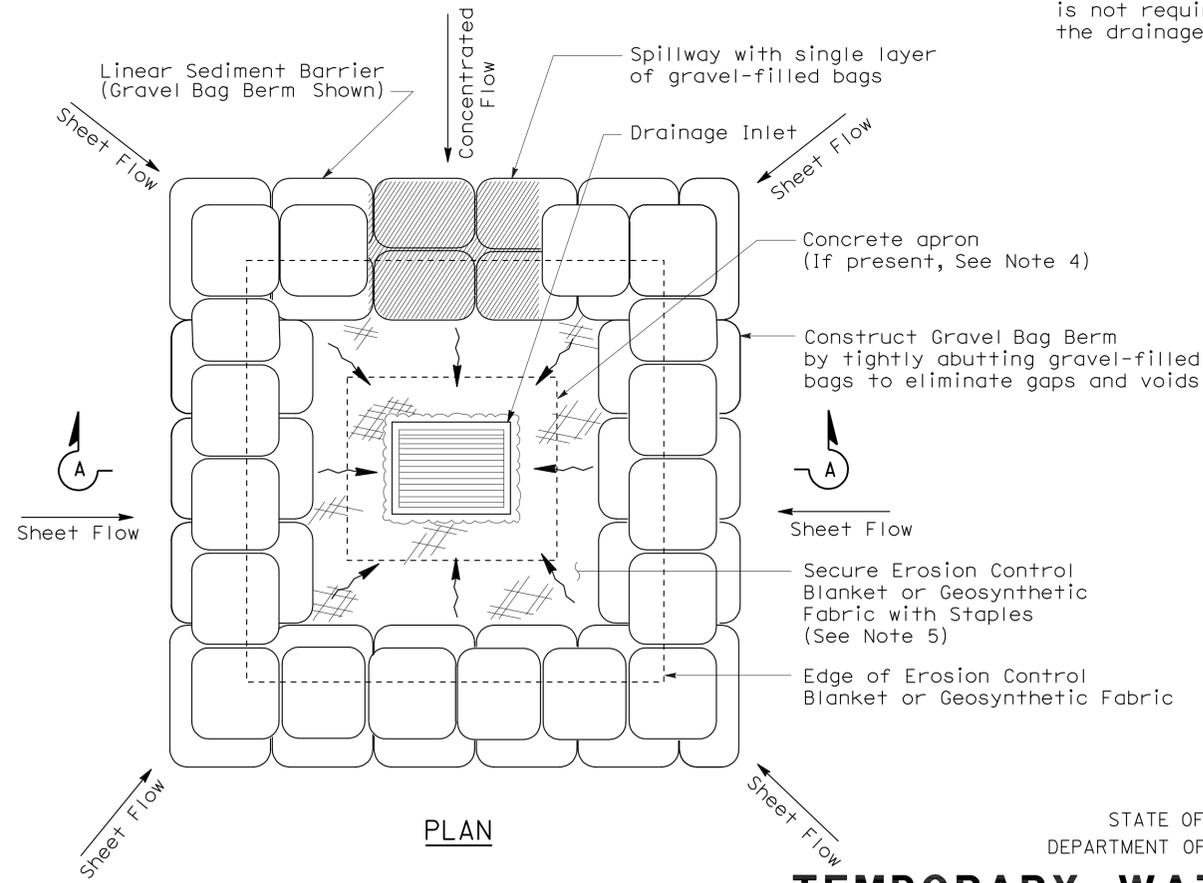
**SECTION A-A**

**NOTES:**

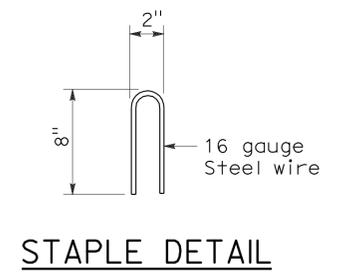
1. Place safety cones adjacent to drainage inlet protection.
2. Dimensions may vary to fit field conditions.
3. Install a minimum of 3 gravel bag berms upstream of each drainage inlet to be protected.
4. Position erosion control blanket or geosynthetic fabric at edge of concrete apron and secure in trench.
5. Erosion control blanket or geosynthetic fabric is not required if the area adjacent to the drainage inlet is vegetated or paved.



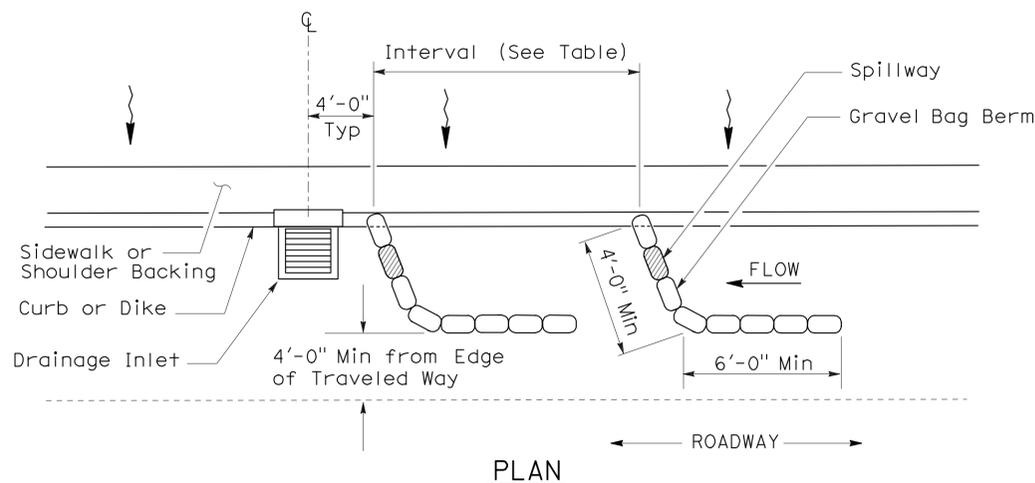
**PERSPECTIVE**



**PLAN**  
**TEMPORARY DRAINAGE INLET PROTECTION (TYPE 3B)**



**STAPLE DETAIL**



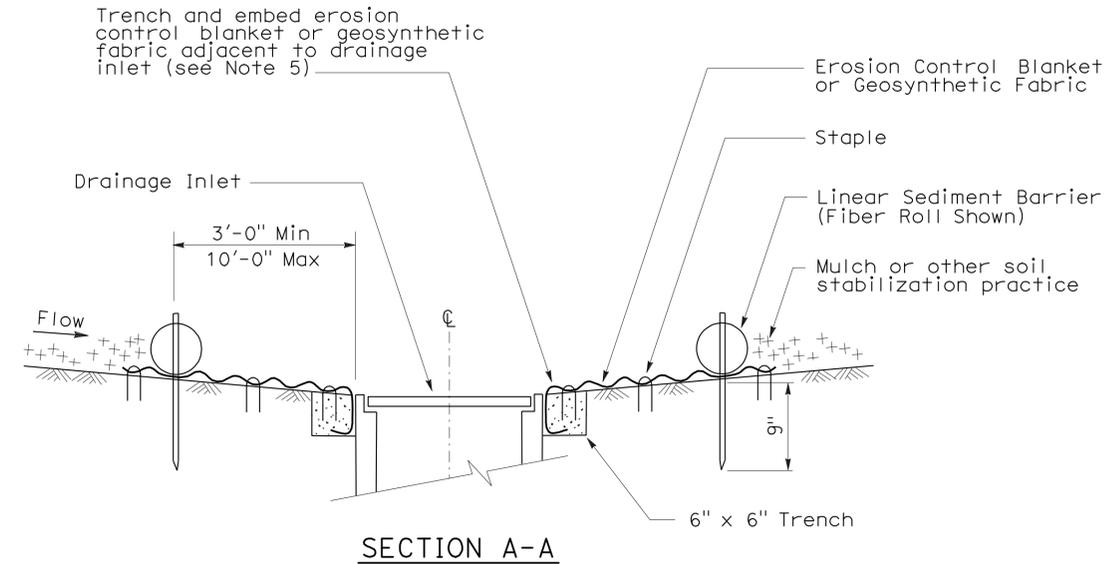
**PLAN**  
**TEMPORARY DRAINAGE INLET PROTECTION (TYPE 3A) (GRAVEL BAG BERM)**

**TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY DRAINAGE INLET PROTECTION)**

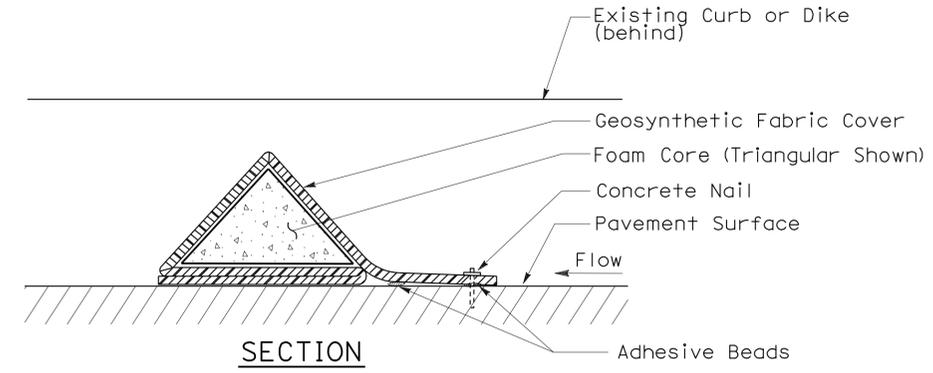
NO SCALE  
NSP T62 DATED AUGUST 15, 2008 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

### FLEXIBLE SEDIMENT BARRIER SPACING TABLE

SLOPE OF ROADWAY (PERCENT)	0 to 0.9	1 to 1.9	2 to 2.9	3 to 4	5+
INTERVAL BETWEEN BARRIERS	50'	35'	30'	25'	20'
ANGLE FROM FACE OF CURB	70°	70°	70°	45°	45°
SUGGESTED BARRIER LENGTH	6'	6'	6'	6'	6'



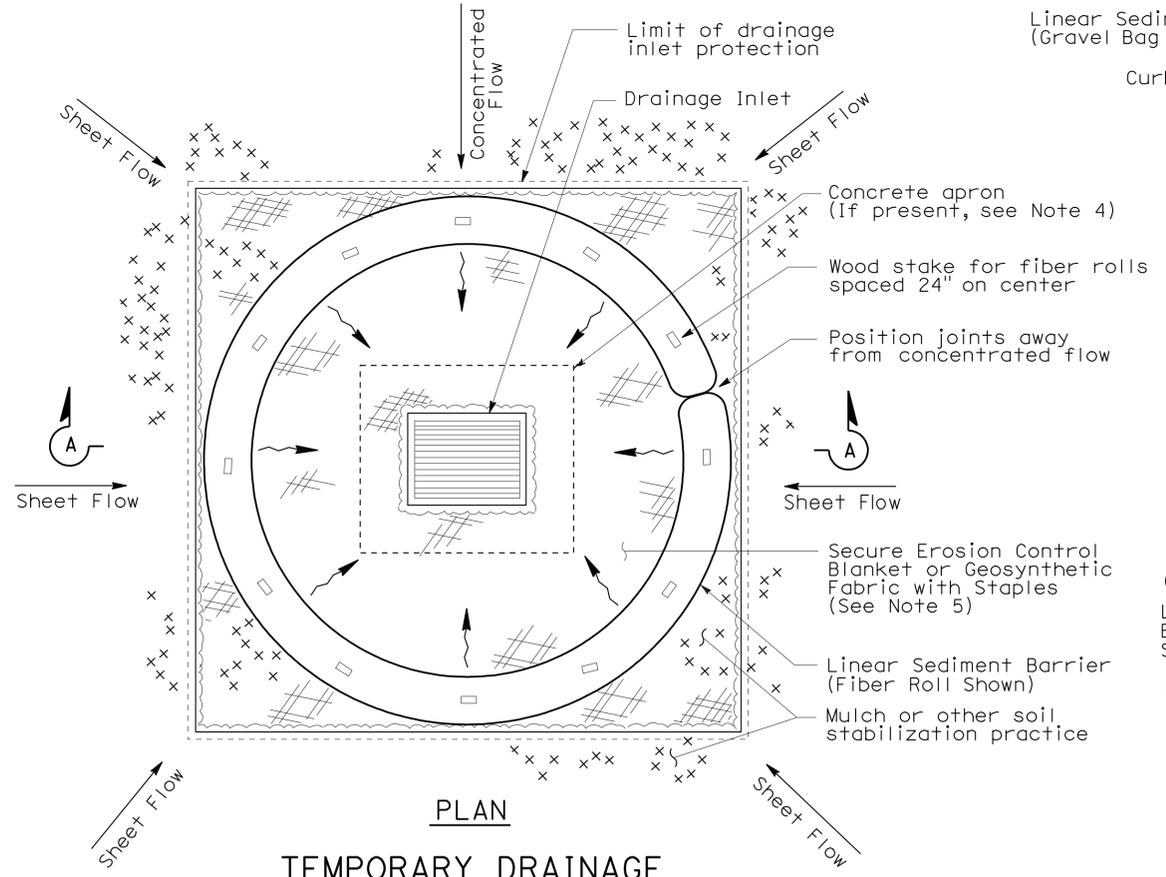
SECTION A-A



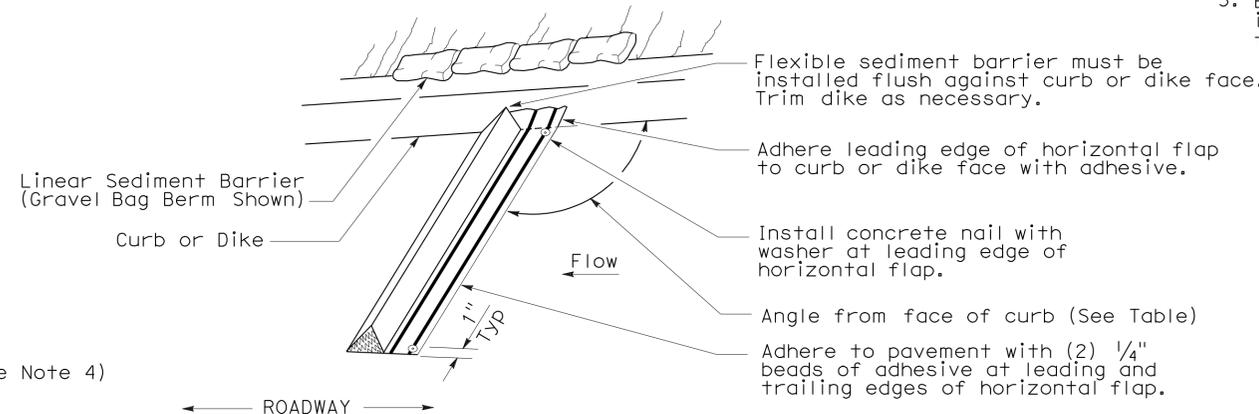
FLEXIBLE SEDIMENT BARRIER DETAIL (FOAM BARRIER SHOWN)

### NOTES:

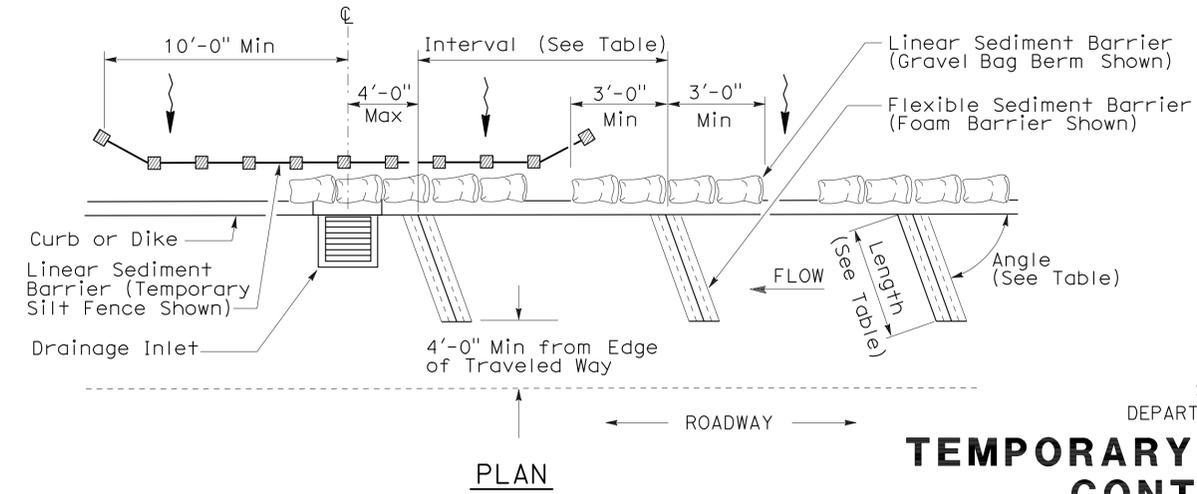
1. See Standard Plan T51 for Temporary Silt Fence.
2. Dimensions may vary to fit field conditions.
3. Install a minimum of 3 flexible sediment barriers upstream of each drainage inlet to be protected.
4. Position erosion control blanket or geosynthetic fabric at edge of concrete apron and secure in trench.
5. Erosion control blanket or geosynthetic fabric is not required if the area adjacent to the drainage inlet is vegetated.



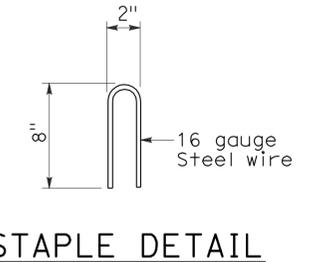
PLAN  
TEMPORARY DRAINAGE INLET PROTECTION (TYPE 4A)



PERSPECTIVE



PLAN  
TEMPORARY DRAINAGE INLET PROTECTION (TYPE 4B) FLEXIBLE SEDIMENT BARRIER



## STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY DRAINAGE INLET PROTECTION)

NO SCALE  
NSP T63 DATED AUGUST 15, 2008 SUPPLEMENTS  
THE STANDARD PLANS BOOK DATED MAY 2006.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Nev	5917		14	44

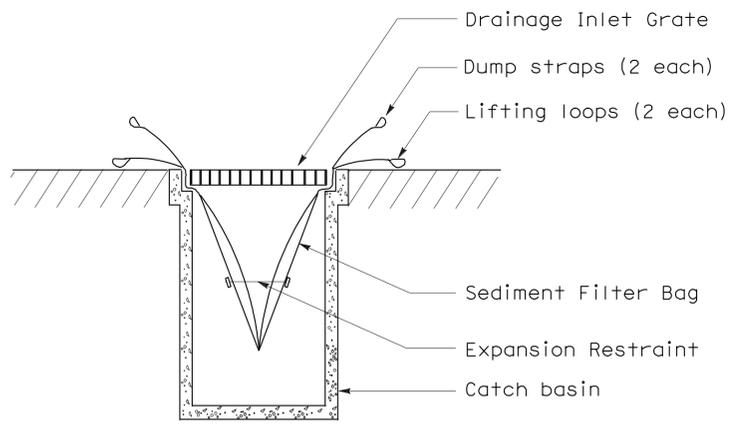
*Robert B. Schott*  
 LICENSED LANDSCAPE ARCHITECT

August 15, 2008  
 PLANS APPROVAL DATE

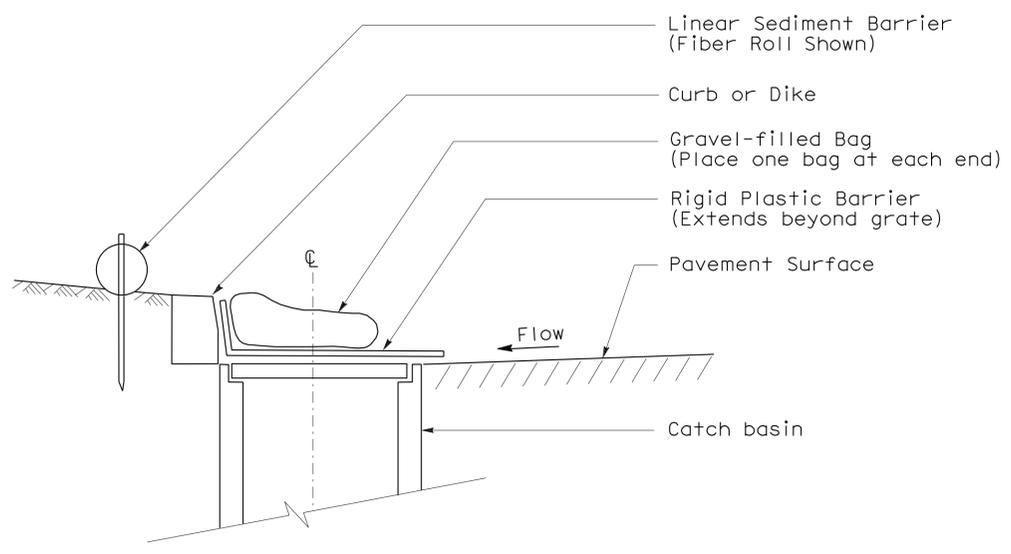
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

LICENSED LANDSCAPE ARCHITECT  
*Robert B. Schott*  
 Signature  
 11-04-08  
 Renewal Date  
 08-11-08  
 Date  
 STATE OF CALIFORNIA

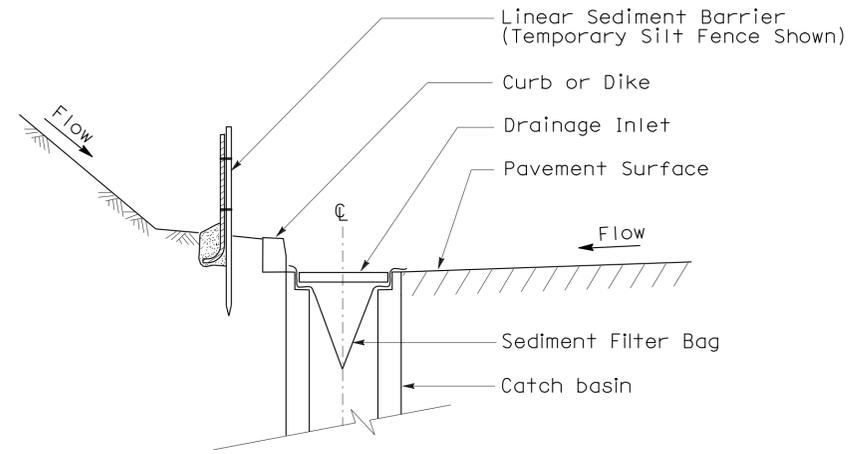
To accompany plans dated 3-14-11



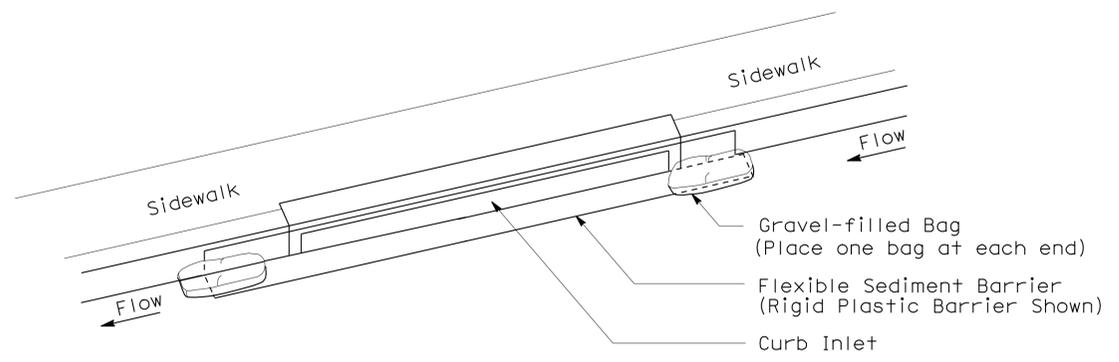
**SECTION B-B**  
**SEDIMENT FILTER BAG DETAIL**



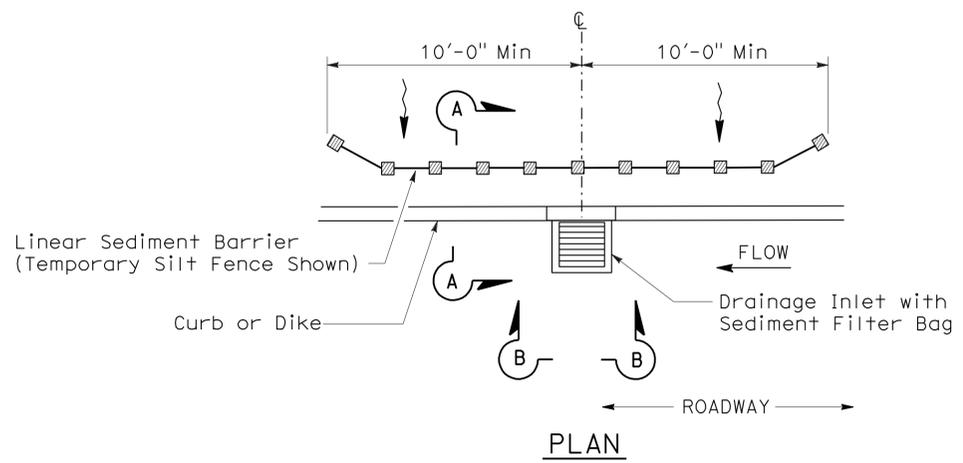
**SECTION**  
**TEMPORARY DRAINAGE**  
**INLET PROTECTION (TYPE 6A)**  
**(CATCH BASIN WITH GRATE)**



**SECTION A-A**



**PERSPECTIVE**  
**TEMPORARY DRAINAGE**  
**INLET PROTECTION (TYPE 6B)**  
**(CURB INLET WITHOUT GRATE)**



**PLAN**  
**TEMPORARY DRAINAGE**  
**INLET PROTECTION (TYPE 5)**  
**(SEDIMENT FILTER BAG)**

**NOTES:**

1. See Standard Plan T51 for Temporary Silt Fence.
2. Dimensions may vary to fit field conditions.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY DRAINAGE INLET PROTECTION)**

NO SCALE

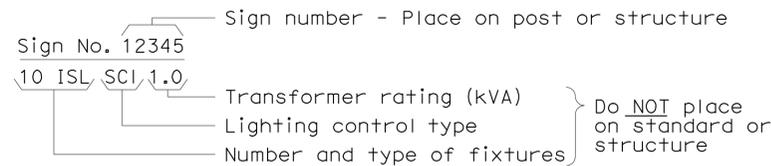
NSP T64 DATED AUGUST 15, 2008 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

**NEW STANDARD PLAN NSP T64**

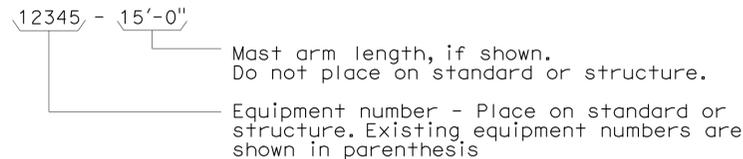
2006 NEW STANDARD PLAN NSP T64

### EQUIPMENT IDENTIFICATION

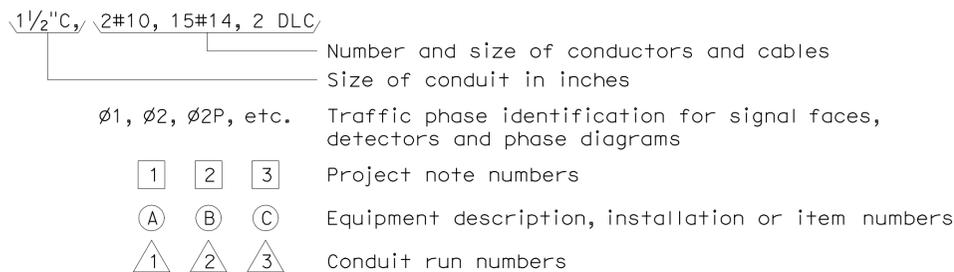
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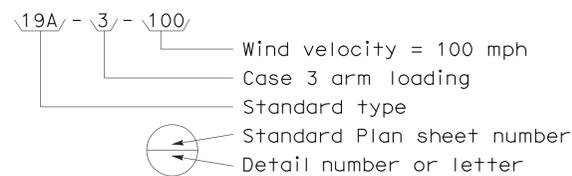
#### ELECTROLIER OR EQUIPMENT IDENTIFICATION NUMBER:



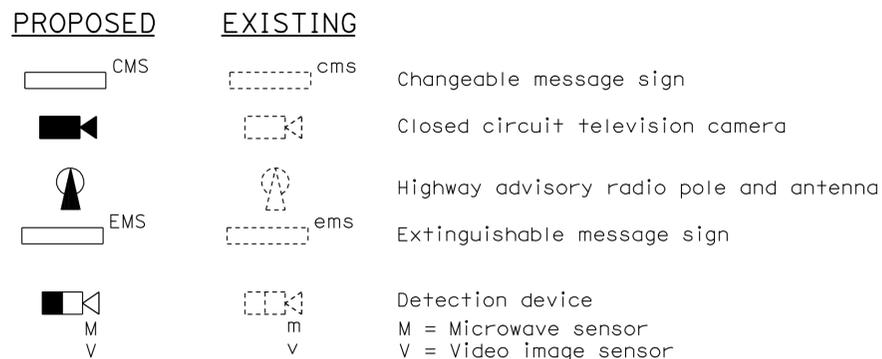
#### CONDUIT AND CONDUCTOR IDENTIFICATION:



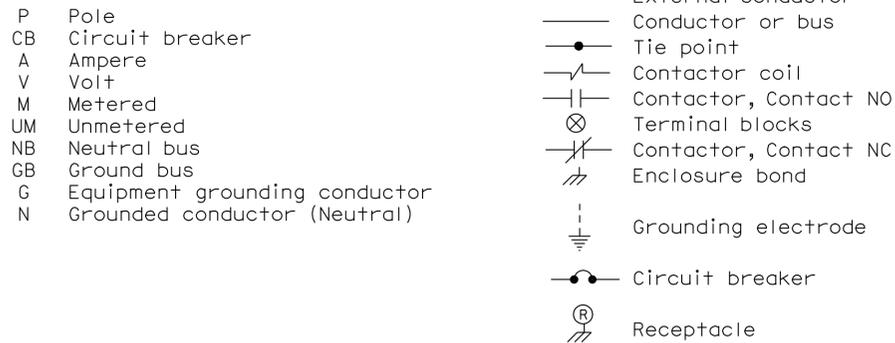
#### SIGNAL AND LIGHTING STANDARD (TYPICAL DESIGNATION):



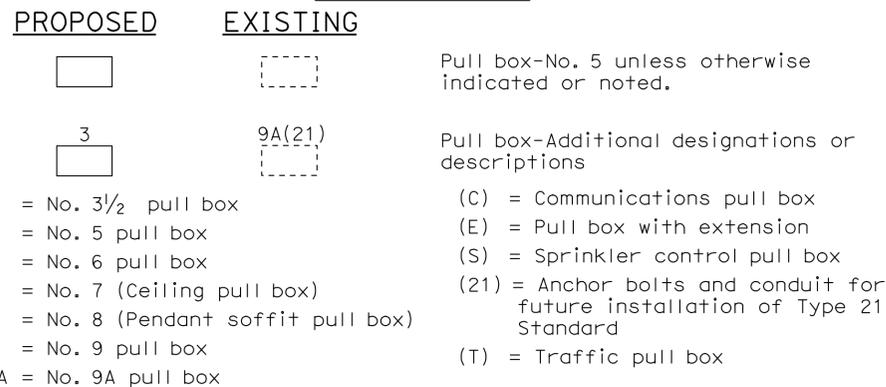
### MISCELLANEOUS EQUIPMENT



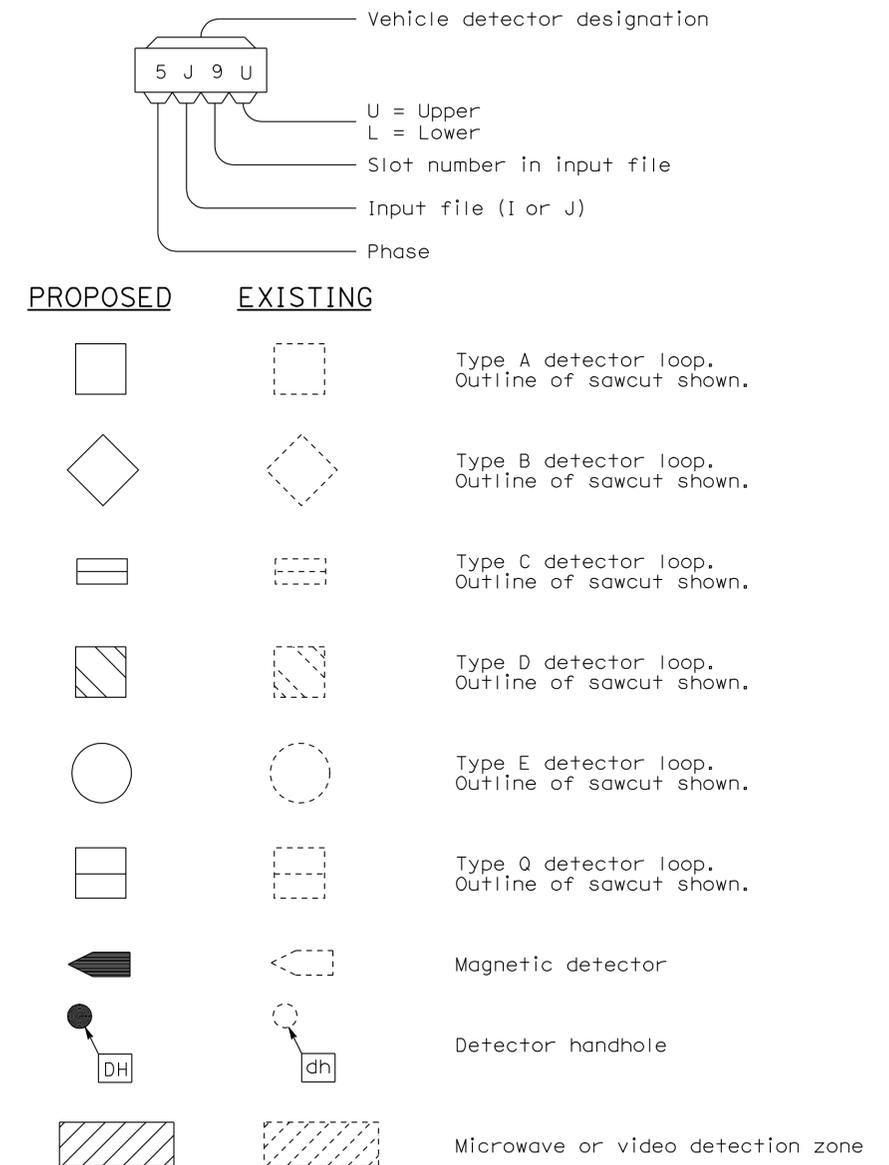
### WIRING DIAGRAM LEGEND



### 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

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Nev	5917		16	44

LICENSED ARCHITECT: *[Signature]* DATE: \_\_\_\_\_

LICENSED ARCHITECT: HASSAN AKHAVAN No. C-20451 Exp. 04-30-11 STATE OF CALIFORNIA

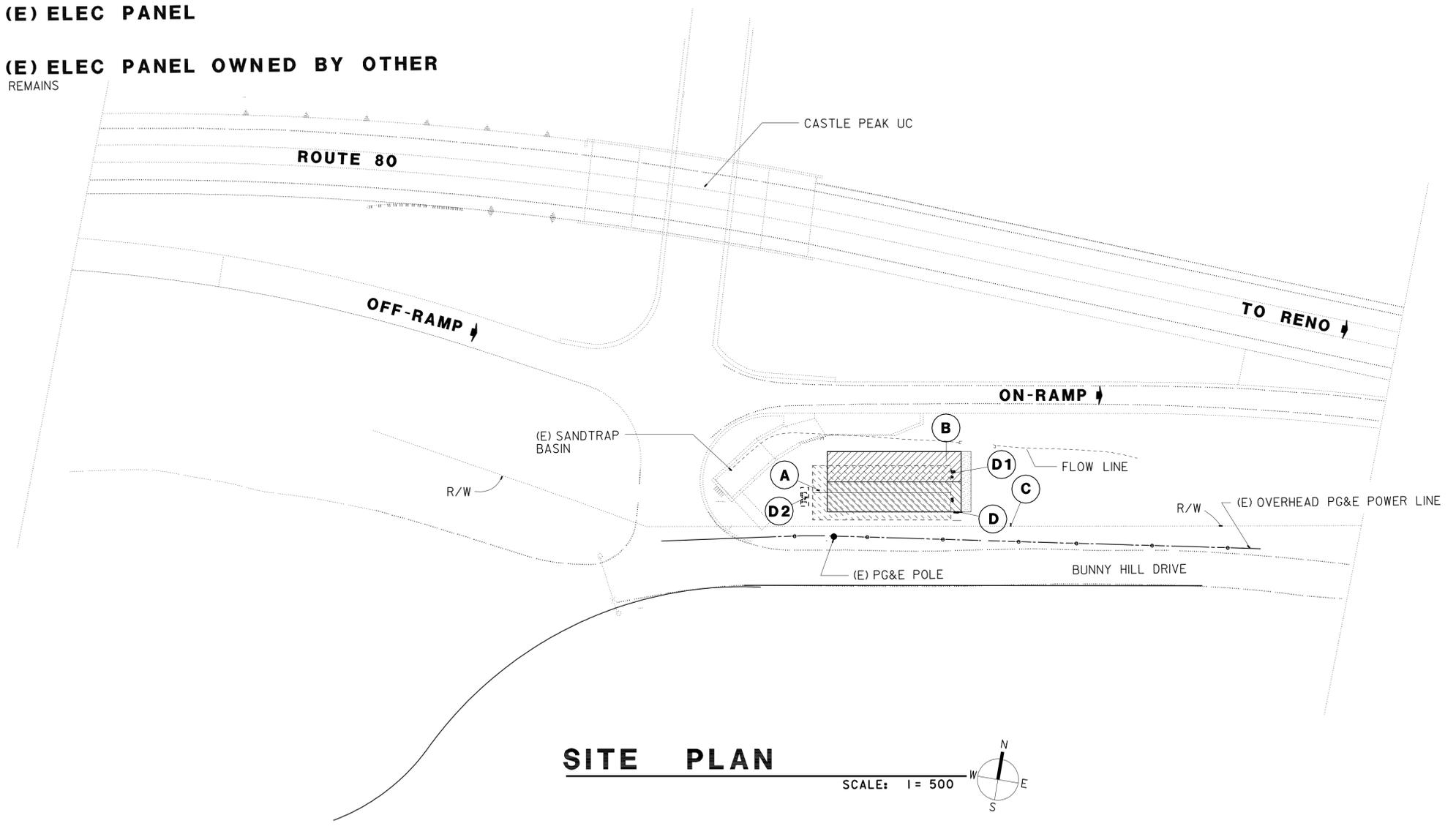
PLANS APPROVAL DATE: 3-14-11

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- LEGEND:**
- A (E) SANDSTORAGE**  
DEMOLISH (E) BUILDING SEE SHEET A-0
  - B NEW BULDING**  
REPLACE WITH NEW BUILDING SEE SHEET A-1
  - C PROPERTY LINE**  
(SEE DISTRICT PLAN)
  - D NEW ELEC PANEL**
  - D1 (E) ELEC PANEL**
  - D2 (E) ELEC PANEL OWNED BY OTHER**  
REMAINS

ACCESSIBILITY NOTES:

1. PEDESTRIAN PATH OF TRAVEL (P.O.T) FROM SITE ENTRANCE ON PROPERTY LINE TO NEW BLDG. IS NOT REQUIRED TO BE IN THE SCOPE OF WORK, AS NO PUBLIC TRANSPORTATION IS AVAILABLE ON ANY ADJACENT STREETS, AND THE SITE IS AT A REMOTE AND ISOLATED LOCATION THAT ANY ADJACENT STREET IS WITHOUT SIDEWALK. ALL USERS AND ANY VISITORS SHALL ARRIVE BY VEHICLES ONLY.
2. NO PARKING SPACE IS DESIGNATED ON SITE.
3. P.O.T IS NOT REQUIRED TO BE INDICATED ON THE SITE PLAN, AS ANY VEHICLES MAY PARK NEXT TO THE CONC. APRON IN FRONT OF THE NEW BLDG.
4. PEDESTRIAN DOOR SHALL HAVE CLEAR LEVEL AREAS ON BOTH SIDES OF DOORS W/MAX. 2% SLOPE IN ANY DIRECTION. CLEAR LEVEL AREA IN THE DIRECTION OF DOOR SWING SHALL BE MIN. 60" X 60" (INCLUDING MIN. 24" PASS DOOR STRIKE EDGE), AND MIN. 48" DEEP X 36" WIDE OPPOSITE DOOR SWING (PLUS MIN. 12" PASS DOOR STRIKE EDGE IF DOOR HAS BOTH LATCH AND CLOSER).
5. LEVEL CHANGE AT THE DOORWAY, INCLUDING THRESHOLD THICKNESS, SHALL BE MAX. 1/2" W/MAX. 1:2 SLOPE. LEVEL CHANGE NOT EXCEEDING 1/4" MAY BE VERTICAL.
6. AISLES FORMED BY EQUIPMENT / STORED MATERIALS / WALLS SHALL BE MIN. 36" WIDE IF SERVING ONE SIDE, AND MIN. 44" WIDE IF SERVING BOTH SIDES.



**SITE PLAN**  
SCALE: 1" = 500'

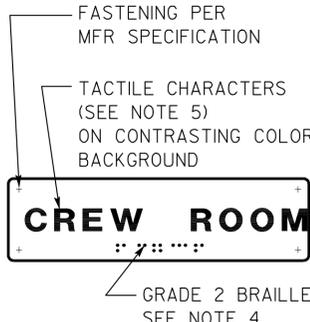
<b>ACCESSIBILITY DESIGN APPROVAL STAMP</b> DOT / DES / OTA	<b>CALIFORNIA STATE FIRE MARSHAL</b> APPROVED
PROJECT ID <b>03000007271</b>	Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
Reviewed by: <i>[Signature]</i>	Reviewed by: <i>[Signature]</i>
Date: 12/27/10	Approval date: 12/16/10

GP.dgn TAEMWW Imperial Rev. 7/10	DESIGN BY HASSAN AKHAVAN CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. L5917 POST MILE 5.1/5.2	<b>CASTLE PEAK SAND HOUSE</b> GENERAL PLAN	SHEET <b>GP</b> OF
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	UNIT PROJECT NUMBER & PHASE 3600 03000007271	EA 4E8800	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) AUG-2010	SHEET OF

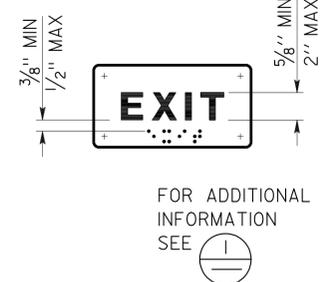
24-MAR-2011 11:33 GP.dgn



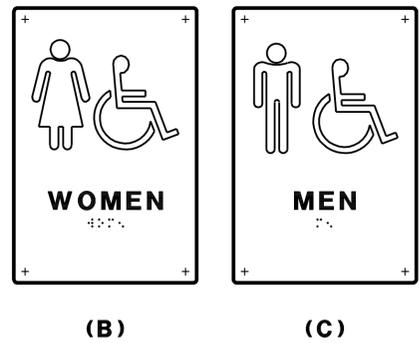
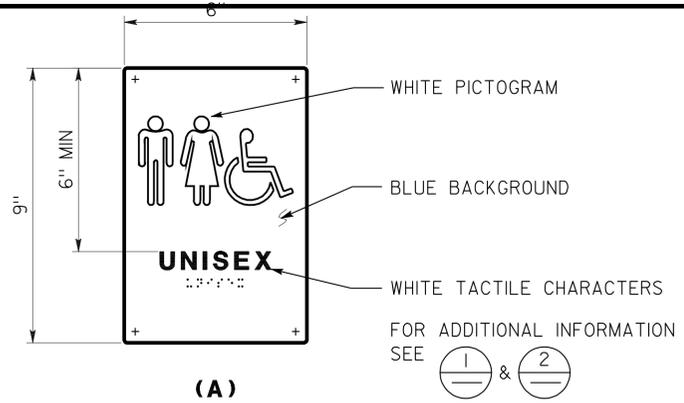
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Nev	5917		18	44
 LICENSED ARCHITECT Y.A. WANG No. C14891 Exp. 11-30-11 STATE OF CALIFORNIA					
3-14-11 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



FOR ADDITIONAL INFORMATION SEE 



FOR ADDITIONAL INFORMATION SEE 

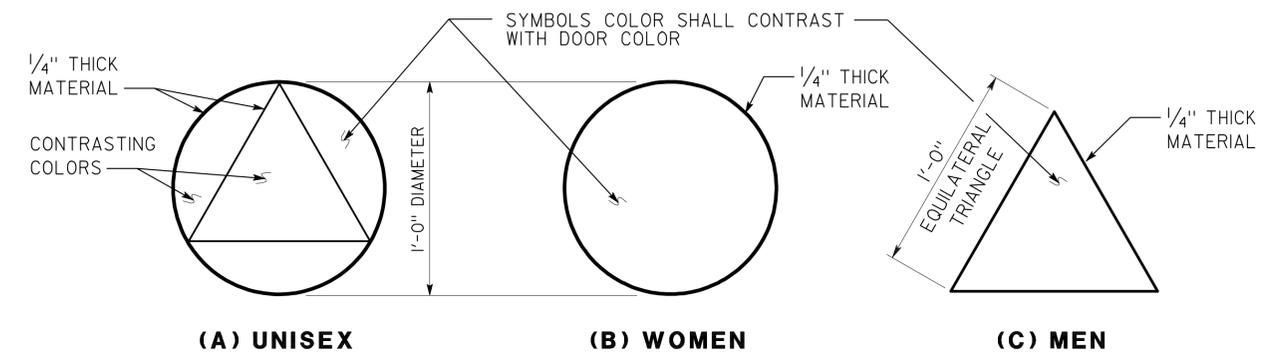


**1 ROOM IDENTIFICATION SIGN**  
 INSTALL PER DETAIL 5  
 TEXT VARIES  
 SEE PLANS, EXT ELEVATIONS, OR DOOR SCHEDULE FOR LOCATIONS AND TEXT

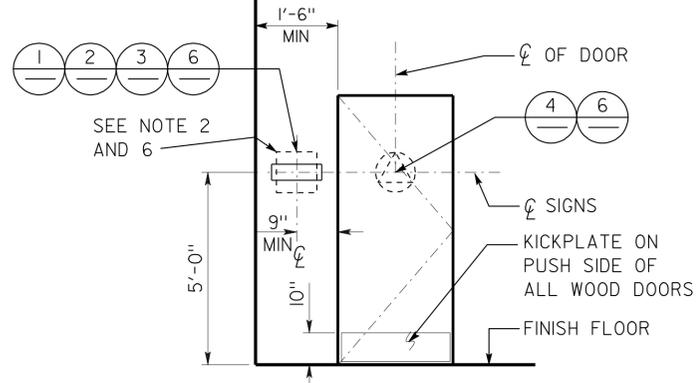
**2 EXIT SIGN**  
 INSTALL PER DETAIL 5  
 TEXT MAY VARY  
 SEE PLANS, OR DOOR SCHEDULE FOR LOCATIONS AND TEXT

**3 RESTROOM SIGNS**  
 INSTALL PER DETAIL 5

<b>ACCESSIBILITY DESIGN APPROVAL STAMP</b> DOT / DES / OTA PROJECT ID <b>03000007271</b> Reviewed by:  Date: 12/27/10	<b>CALIFORNIA STATE FIRE MARSHAL APPROVED</b> Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times. Reviewed by:  Approval date: 12/16/10
---	--

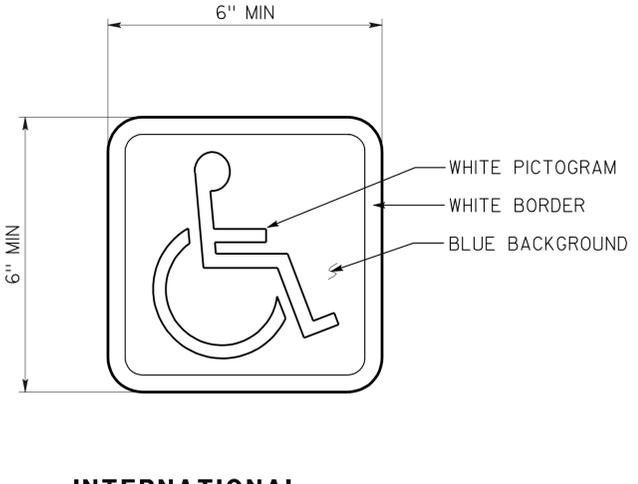


**4 RESTROOM IDENTIFICATION SYMBOLS**  
 INSTALL PER DETAIL 5  
 ANY PICTOGRAM AND TEXT ARE NOT REQUIRED

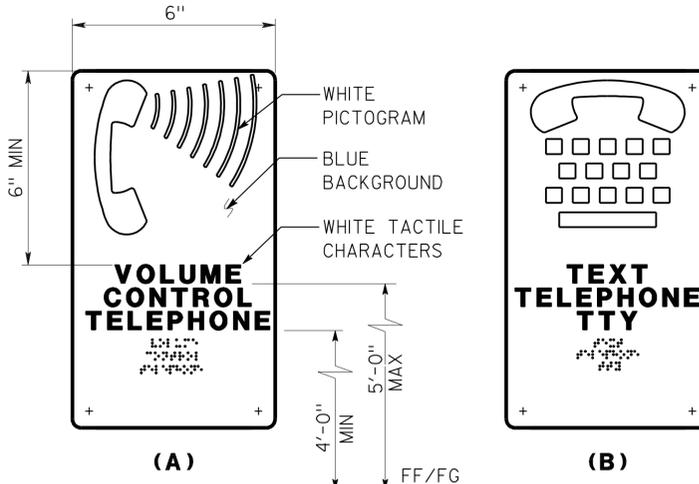


**5 SIGN LOCATIONS**  
 REFER TO SIGNAGE NOTES FOR ADDITIONAL INFORMATION

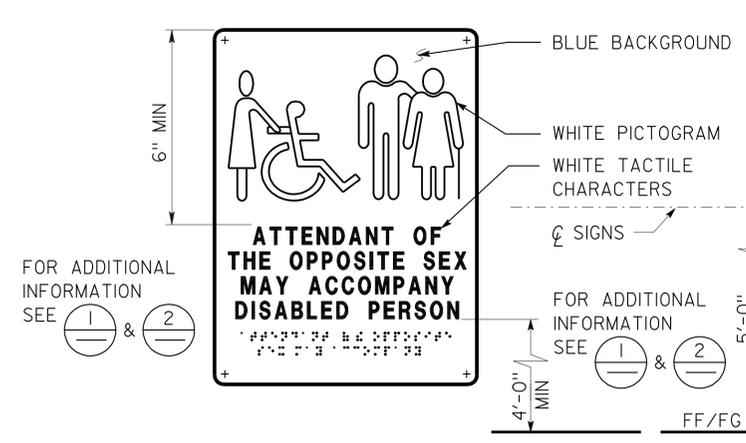
- SIGNAGE NOTES:**
- LOCATE ROOM IDENTIFICATION SIGNS, EXIT SIGNS, AND RESTROOM SIGNS ON WALL ADJACENT TO DOOR ON LATCH SIDE. IF WALL SPACE IS NOT AVAILABLE ON LATCH SIDE, LOCATE ON NEAREST ADJACENT WALL.
  - REFER TO SPECIFICATIONS FOR SIGN MATERIAL AND COLOR SELECTION. COLORS MAY VARY FROM DETAILS.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



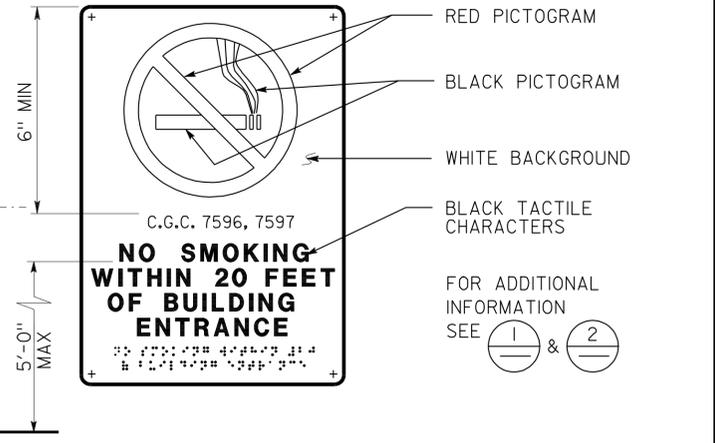
**6 INTERNATIONAL SYMBOL OF ACCESSIBILITY**  
 INSTALL PER DETAIL 5  
 SEE PLANS, EXT ELEVATIONS, OR SCHEDULE FOR SIGN LOCATIONS  
 SYMBOL MAY BE ON DOOR OR WALLS.  
 DECAL MAY BE USED ON DOORS OR SMOOTH WALLS



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



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



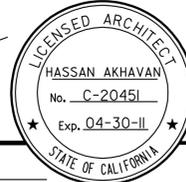
**9 NO SMOKING SIGN**  
 SEE PLANS OR EXTERIOR ELEVATIONS FOR LOCATIONS

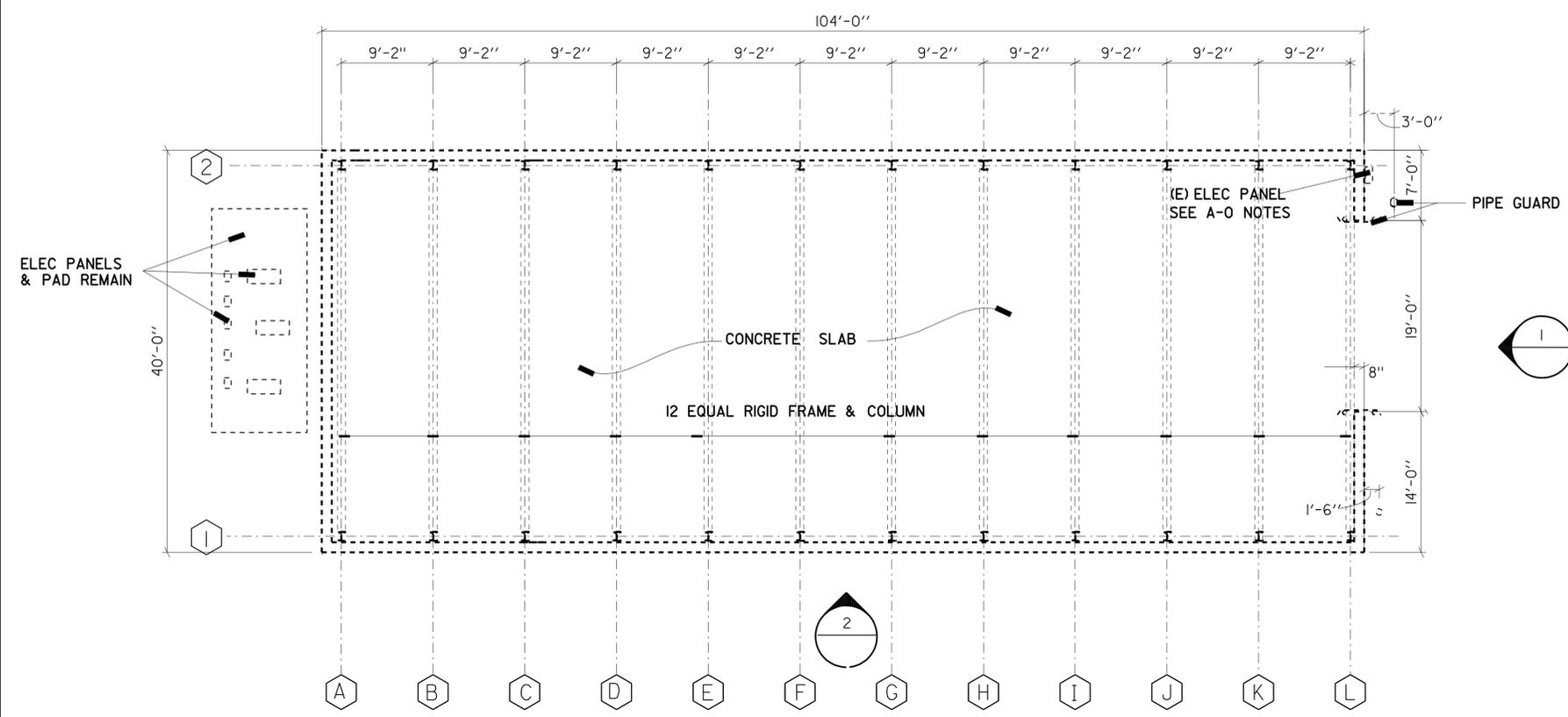
**DETAILS**  
 NO SCALE UNLESS OTHERWISE NOTED

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

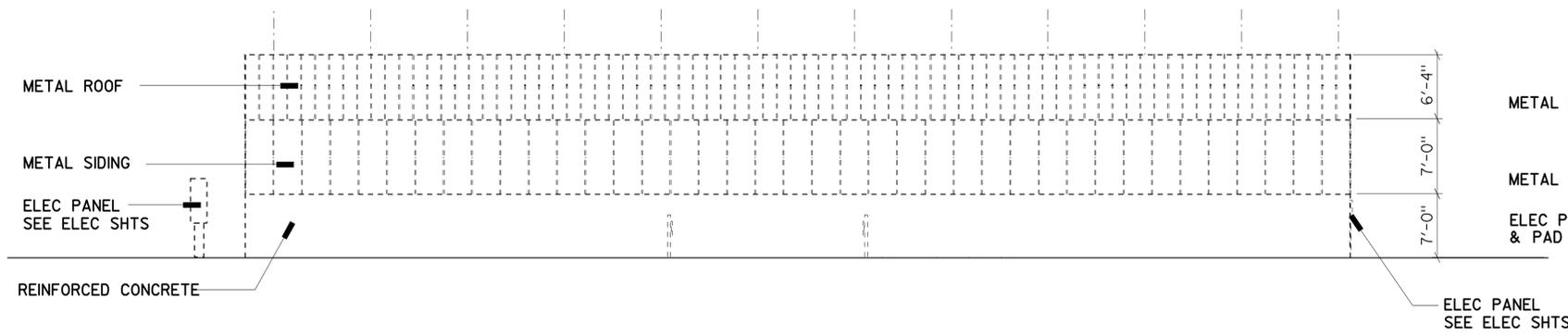
STANDARD DRAWING				STATE OF CALIFORNIA		DIVISION OF ENGINEERING SERVICES		BRIDGE NO.		SHEET	
FILE NO. 01-10	DESIGN BY D. ALSEY	CHECKED Y.A. WANG	APPROVED 	CALIFORNIA		ARCHITECTURAL AND STRUCTURAL DESIGN		L5917		CASTLE PEAK SANDHOUSE	
DRAWING DATE 01-10	DETAILS BY D. GOOD	CHECKED Y.A. WANG	DESIGN SUPERVISOR	DEPARTMENT OF TRANSPORTATION		STRUCTURAL DESIGN		POST MILE 5.1/5.2		ACCESSIBILITY STANDARD DETAILS	
SUBMITTED BY Y.A. WANG				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF	
DS OSD Imperial Rev. 10/07 24-MAR-2011 111:531				0 1 2 3		OCT-2010				X X	

24-MAR-2011 11:31

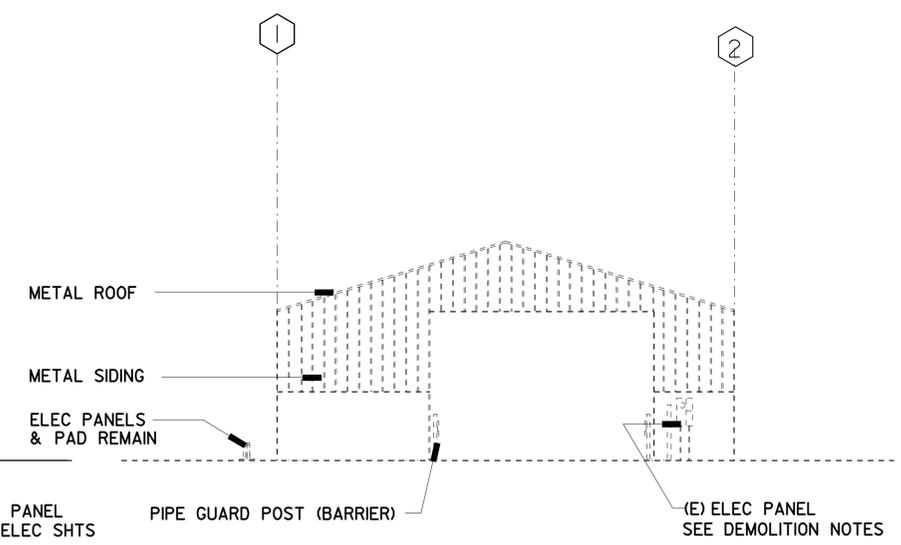
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Nev	5917		19	44
 LICENSED ARCHITECT					
3-14-11 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



**DEMOLITION PLAN**  
SCALE : 1/8" = 1'-0"

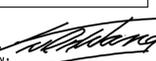


**2 SOUTH ELEVATION**  
SCALE : 1/8" = 1'-0"



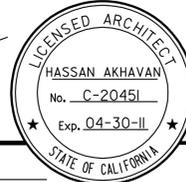
**1 WEST ELEVATION**  
EAST ELEVATION SIMILAR SCALE : 1/8" = 1'-0"

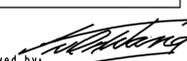
**DEMOLITION NOTES:**  
CONTRACTOR SHALL VERIFY ALL EXISTING UNDERGROUND UTILITIES, FIBER OPTIC, GAS, SEWER AND WATER LINE PER WORKING DRAWING BEFORE ATTEMPTING DEMOLITION. THE STRUCTURE ELEMENTS INCLUDE SLAB FOUNDATION BEAMS COLUMNS METAL ROOF AND REINFORCED CONCRETE WALL AND OTHER ELEMENTS THAT ARE PART OF STRUCTURE. MECHANICAL AND ELECTRICAL, FIXTURES, WIRING WILL BE REMOVED

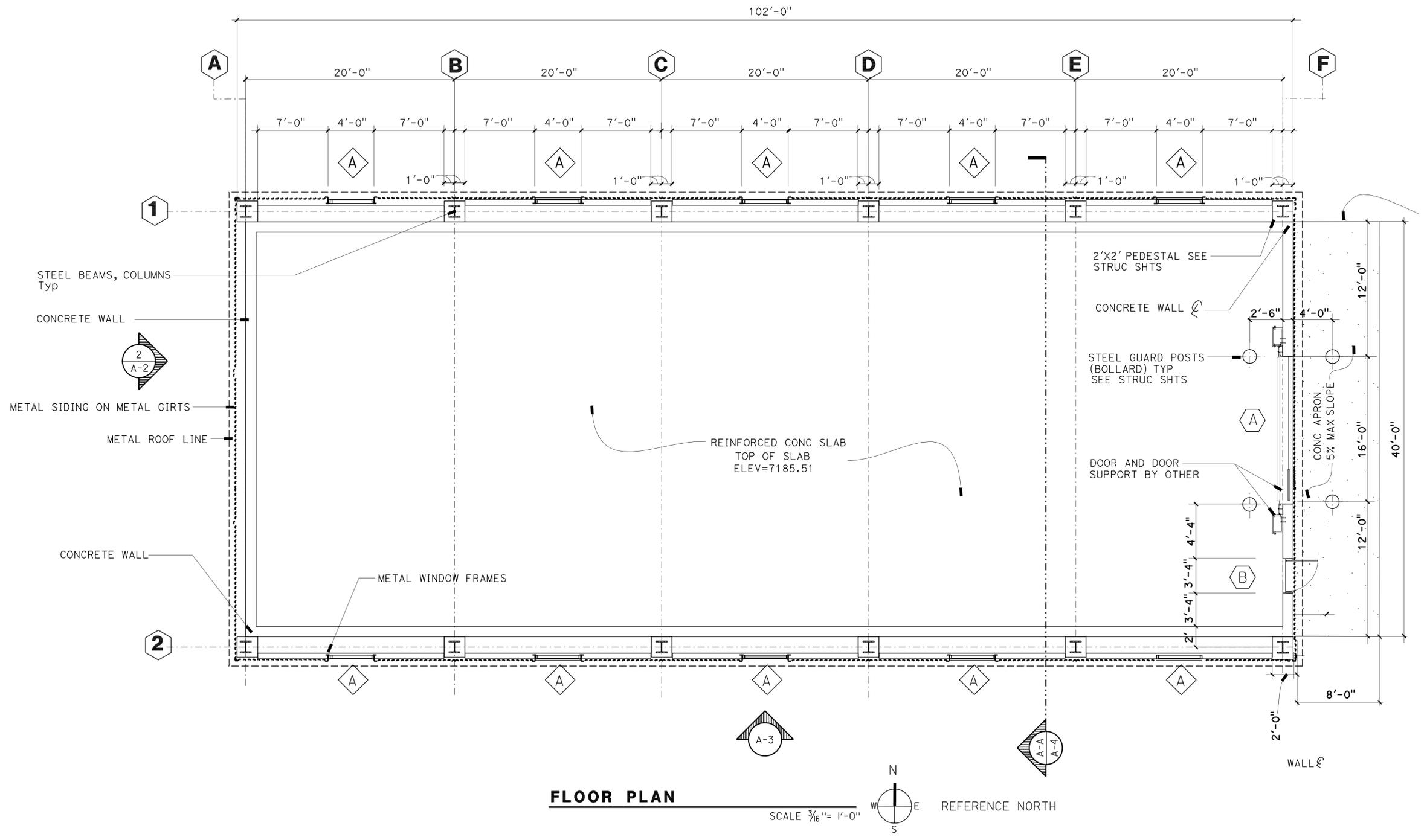
<b>ACCESSIBILITY DESIGN APPROVAL STAMP</b> DOT / DES / OTA PROJECT ID <b>03000007271</b> Reviewed by:  Date: 12/27/10	<b>CALIFORNIA STATE FIRE MARSHAL APPROVED</b> Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times. Reviewed by:  Approval date: 12/16/10
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A-0.dgn TAEMWW Imperial Rev. 7/10 11:32	DESIGN BY HASSAN AKHAVAN CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. L5917 POST MILE 5.175.2	<b>CASTLE PEAK SANDHOUSE</b> DEMOLITION PLAN	SHEET OF A-0 X X
	DETAILS BY CHECKED		PROJECT NUMBER & PHASE 3600 03000007271	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)
QUANTITIES BY CHECKED	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		UNIT PROJECT NUMBER & PHASE 3600 03000007271	EA 4E8800	OCT-2010	

24-MAR-2011 11:32

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Nev	5917		20	44
 LICENSED ARCHITECT					
					
3-14-11 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 PROJECT ID <b>03000007271</b> Reviewed by:  Date: 12/27/10	<b>CALIFORNIA STATE FIRE MARSHAL APPROVED</b> Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times. Reviewed by:  Approval date: 12/16/10
---	--



AC PAVING FLUSH WITH CONC APRON  
 5% MAX SLOPE  
 SEE STRUC SHTS

A-1.dgn TAEMWW Imperial Rev. 7/10 11:32	DESIGN BY HASSAN AKHAVAN CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. L5917 POST MILE 5.175.2	<b>CASTLE PEAK SANDHOUSE</b> PLAN	SHEET OF A-1 X X
	DETAILS BY CHECKED		PROJECT NUMBER & PHASE 3600 03000007271	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)
QUANTITIES BY CHECKED	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		UNIT PROJECT NUMBER & PHASE 3600 03000007271	EA 4E8800		

24-MAR-2011 11:32

**LEGEND:**

- 1 METAL ROOF, TYPICAL
- 2 METAL SIDING, TYPICAL
- 3 METAL FRAMED WINDOW
- 4 STEEL COLUMN SEE STRUC SHTS
- 5 REINFORCED CONCRETE PEDESTAL SEE STRUC
- 6 EXTERIOR LIGHT SEE ELEC SHTS
- 7 CONC TEXTURED SURFACE WALL SEE FINISH SCHEDULE
- 8 ELECT PANEL SEE ELEC SHTS
- 9 CONCRETE APRON SEE STRUC SHTS
- 10 METAL DOOR 3'X7'
- 11 OVERHEAD DOOR 16'X16'
- 12 STEEL GUARD POST SEE STRUC SHTS

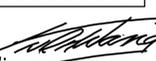
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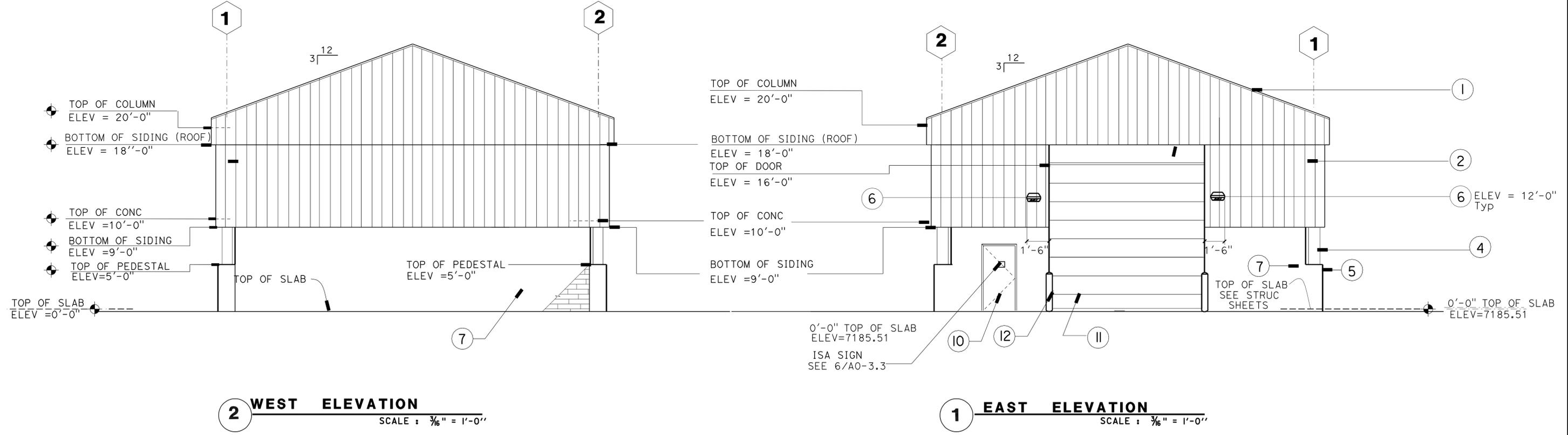
LICENSED ARCHITECT

  
**LICENSED ARCHITECT**  
 HASSAN AKHAVAN  
 No. C-20451  
 Exp. 04-30-11  
 STATE OF CALIFORNIA

3-14-11  
PLANS APPROVAL DATE

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<p><b>ACCESSIBILITY DESIGN APPROVAL STAMP</b> DOT / DES / OTA</p> <p>PROJECT ID <b>03000007271</b></p> <p>Reviewed by: </p> <p>Date: 12/27/10</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 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: </p> <p>Approval date: 12/16/10</p>
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A-2.dgn TAEMWW Imperial Rev. 7/10 11:32	DESIGN BY HASSAN AKHAVAN	CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. L5917	<b>CASTLE PEAK SANDHOUSE</b> EAST & WEST ELEVATION	SHEET OF
	DETAILS BY	CHECKED		ARCHITECTURAL AND STRUCTURAL DESIGN	POST MILE 5.1/5.2		A-2
QUANTITIES BY	CHECKED	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		UNIT PROJECT NUMBER & PHASE 3600 03000007271 EA 4E8800	DISREGARD PRINTS BEARING EARLIER REVISION DATES OCT-2010	REVISION DATES (PRELIMINARY STAGE ONLY) X X	SHEET OF X X

24-MAR-2011 11:32 A-2.dgn

**LEGEND:**

- 1 METAL ROOF, TYPICAL
- 2 METAL SIDING, TYPICAL
- 3 METAL FRAMED WINDOW
- 4 STEEL COLUMN SEE STRUC SHTS
- 5 REINFORCED CONCRETE PEDESTAL SEE STRUC
- 6 EXTERIOR LIGHT SEE ELEC SHTS
- 7 CONC TEXTURED SURFACE WALL SEE FINISH SCHEDULE
- 8 ELECT PANEL SEE ELEC SHTS
- 9 CONCRETE APRON SEE STRUC SHTS
- 10 STEEL GUARD POST

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Nev	5917		22	44

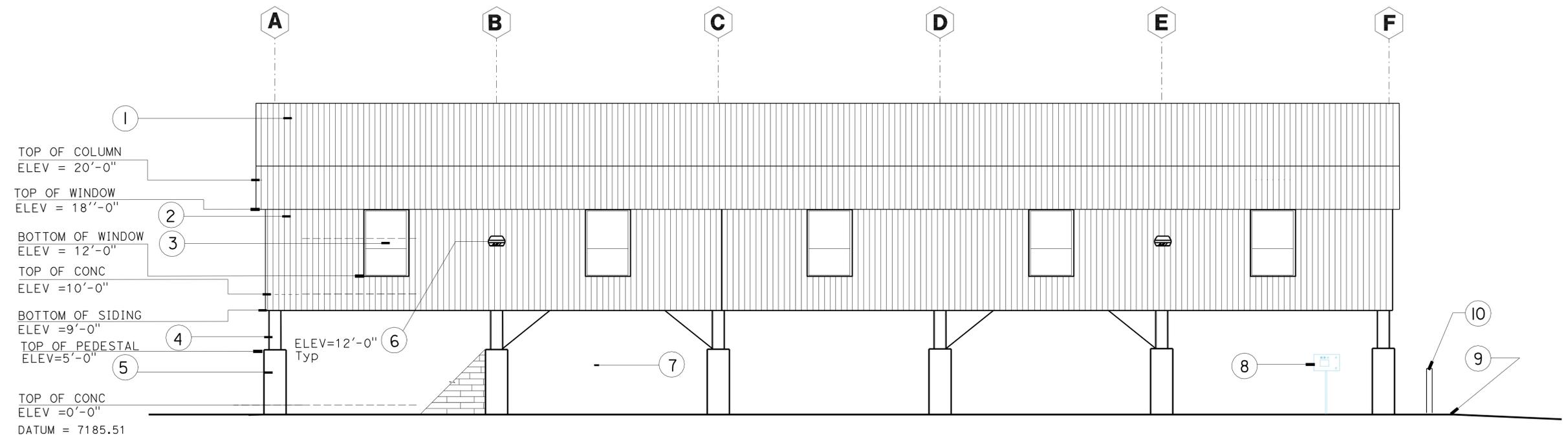
LICENSED ARCHITECT  DATE

3-14-11  
PLANS APPROVAL DATE

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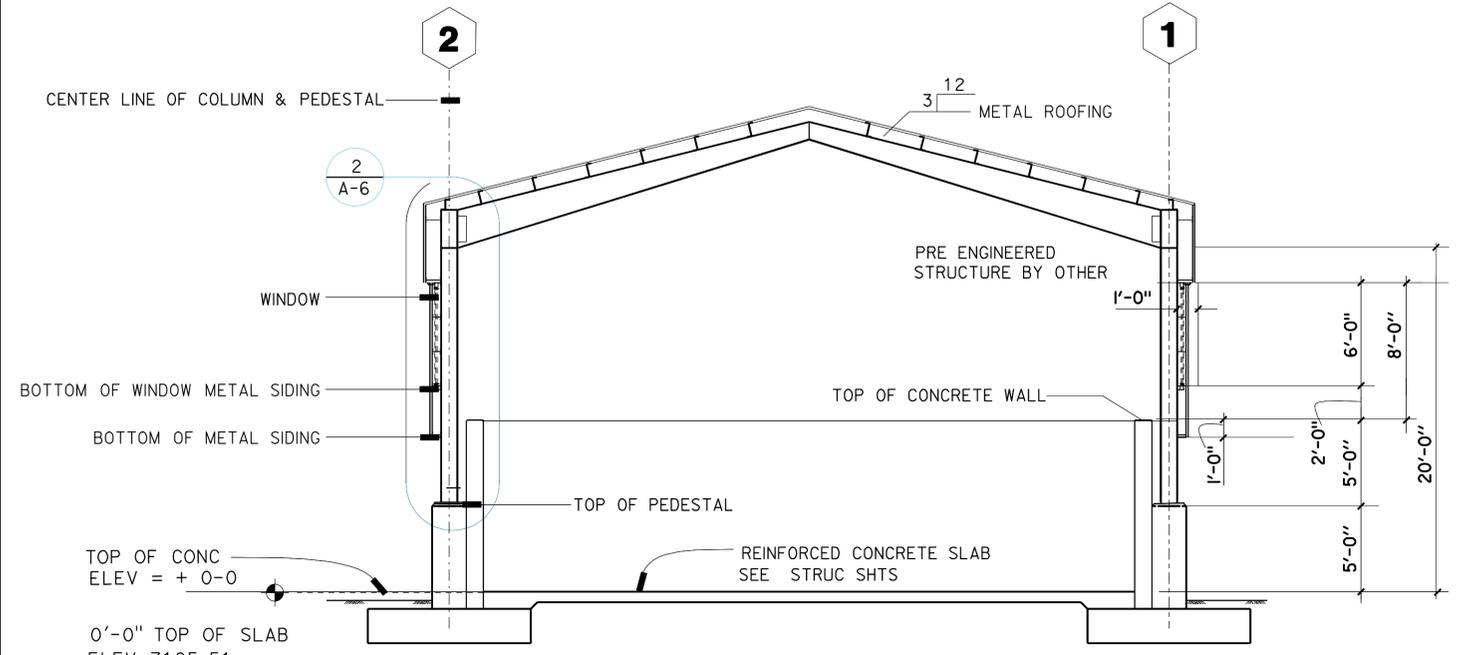
<p>ACCESSIBILITY DESIGN APPROVAL STAMP DOT / DES / OTA</p> <p>PROJECT ID <b>03000007271</b></p> <p>Reviewed by: </p> <p>Date: 12/27/10</p>	<p>CALIFORNIA STATE FIRE MARSHAL APPROVED</p> <p>Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final 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: </p> <p>Approval date: 12/16/10</p>
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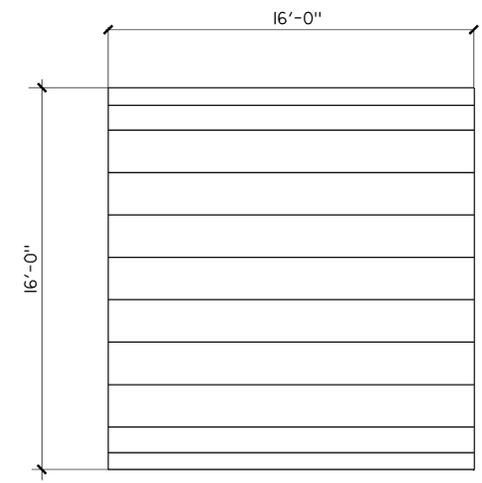
**SOUTH ELEVATION**  
**NORTH ELEVATION** SCALE : 3/16" = 1'-0"  
SIMILAR

A-3.dgn TAEWW Imperial Rev. 7/10	DESIGN BY HASSAN AKHAVAN	CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. L5917	CASTLE PEAK SAND HOUSE SOUTH & NORTH ELEVATION	SHEET OF <b>A-3</b>
	DETAILS BY	CHECKED		PROJECT NUMBER & PHASE 3600 03000007271	POST MILE 5.1/5.2		REVISION DATES (PRELIMINARY STAGE ONLY) AUG-2010
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			0 1 2 3	DISREGARD PRINTS BEARING EARLIER REVISION DATES		AUG-2010	

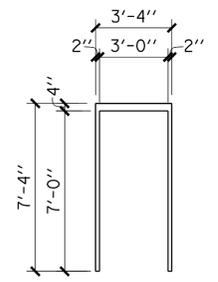
24-MAR-2011 11:32 A-3.dgn



**SECTION A-A**  
SCALE: 3/16" = 1'-0"



**OVERHEAD ROLLUP DOOR TYPE A**



**FRAME TYPES**  
SCALE: 1/4" = 1'-0"

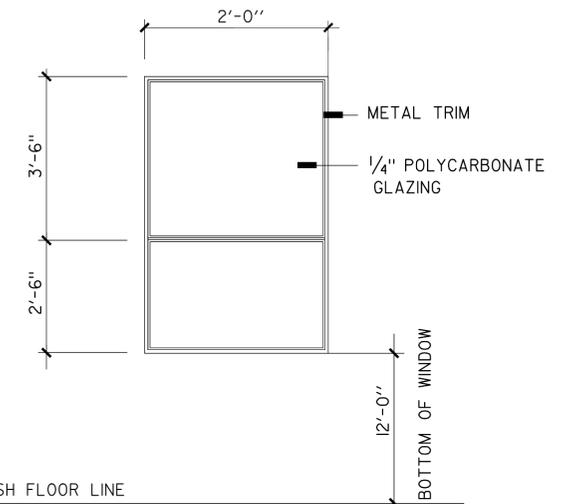
**HOLLOW METAL DOOR TYPE B**

**FINISH NOTES**

- METAL FLASHINGS AND TRIM SHALL BE FACTORY COATED OR SHALL BE FIELD COATED TO MATCH COLOR OF STEEL SIDING AND ROOFING.
- COLORS ARE SELECTED FROM "FEDRAL STANDARD COLOR" SITE <http://www.colorservers.net>

COLOR NO.	ROOF	15526
COLOR NO.	SIDING	37150

MATERIAL	COLOR NUMBER	COATING SYSTEM
METAL TRIM & FLASHINGS	N/A	PREFINISHED
METAL WINDOW FRAMES	37150	2
METAL ROOFING	15526	PREFINISHED
METAL SIDING	37150	
STEEL BEAMS, COLUMNS AND GIRTS	35182	PREFINISHED
STEEL GUARD POSTS	35550	PREFINISHED
STEEL BOLTS, FASTENERS, BRACKETS ETC.	N/A	
CONC TEXTURED SURFACE WALL PATTERN	30III	SHEET A-8

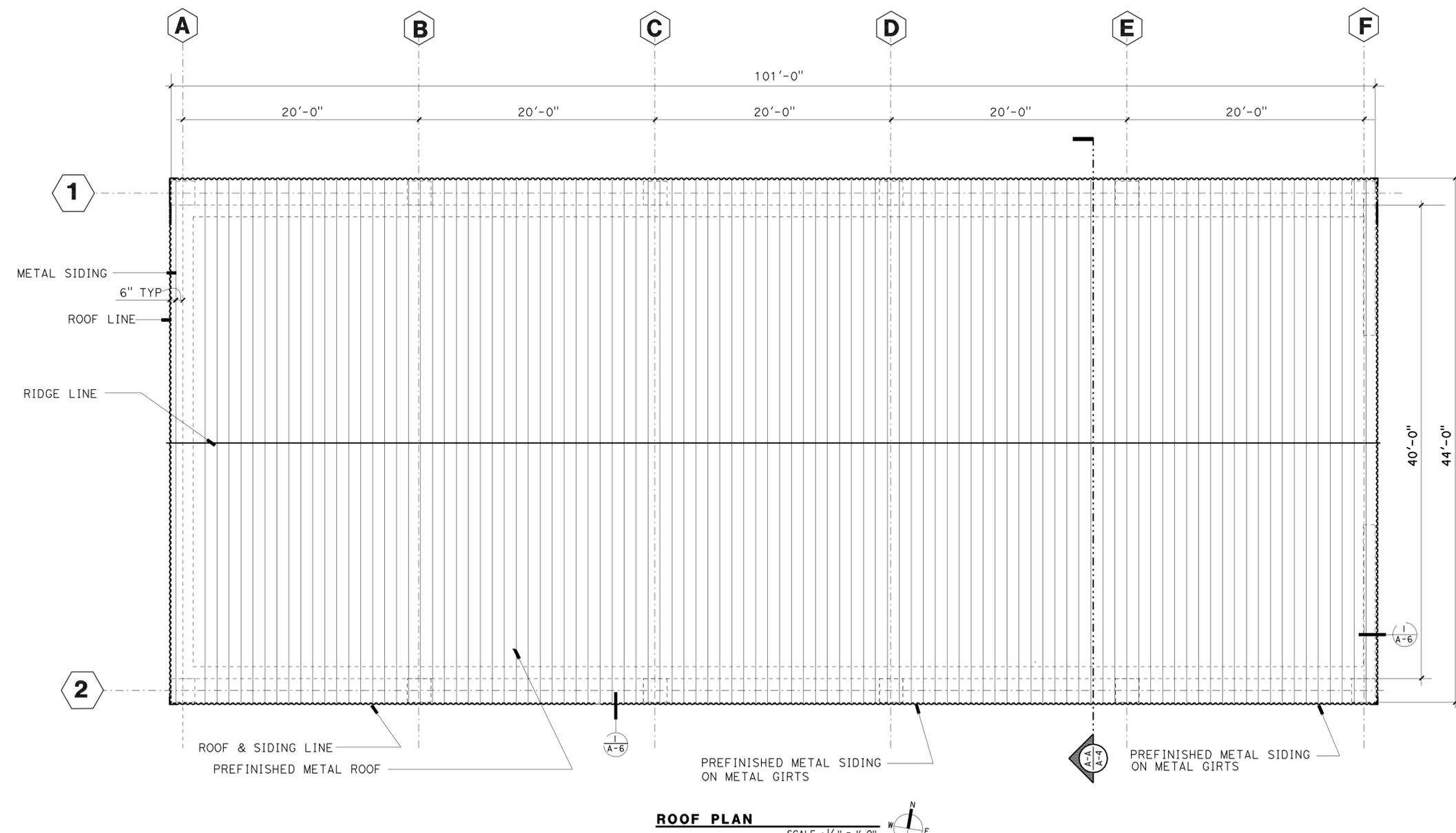


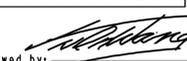
**A FIXED**

**DOOR SCHEDULE**

DOOR TYPE	DOOR SIZE WIDTH X HGT	DOOR THICK.	DOOR		FRAME				HDWR GROUP	GLAZING	LOUVER	SIGN DETAIL NO	DETAILS			SIGN TEXT	REMARKS
			MAT	FIN	MAT	TYPE	FIN	WIDTH					HEAD	JAMB	THLD		
A	16'-0" X 16'-0"	-	METAL	PAINT	METAL	I	PAINT	TRACK	-	-	-	-	-	-	-	-	-
B	3'-0" X 7'-0"	1 3/4"	HM	PAINT	METAL	I	PAINT	5 3/4"	I	-	-	2&6 AO-3.3	A-7	A-7	A-7	EXIT	INSIDE

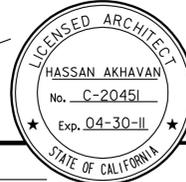
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Neu	5917		24	44
LICENSED ARCHITECT  DATE _____					
3-14-11					
PLANS APPROVAL DATE					
<i>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</i>					

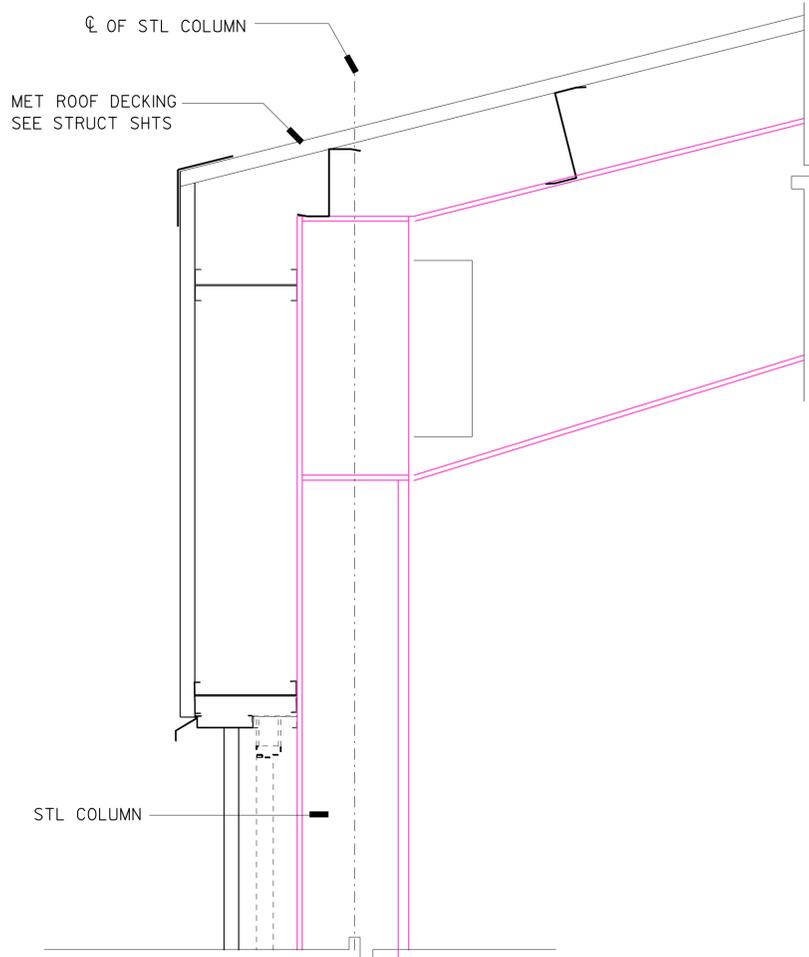


<b>ACCESSIBILITY DESIGN APPROVAL STAMP</b> DOT / DES / OTA PROJECT ID <b>03000007271</b> Reviewed by:  Date: 12/21/10	<b>CALIFORNIA STATE FIRE MARSHAL APPROVED</b> Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times. Reviewed by:  Approval date: 12/16/10
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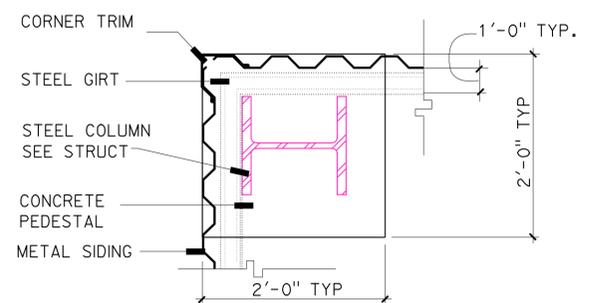
A-5.dgn TAEMWW Imperial Rev. 1/10 TAEMWW Imperial Rev. 1/10 24-MAR-2011 11:32	DESIGN BY HASSAN AKHAVAN CHECKED _____ DETAILS BY _____ CHECKED _____ QUANTITIES BY _____ CHECKED _____	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. L5917 POST MILE 5.1/5.2	<b>CASTLE PEAK SANDHOUSE</b> ROOF PLAN	SHEET OF <b>A-5</b>
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 0800 08000000001 EA 08800	DISREGARD PRINTS BEARING EARLIER REVISION DATES REVISION DATES (PRELIMINARY STAGE ONLY) OCT-2010	SHEET OF X X		

24-MAR-2011 11:32 A-5.dgn

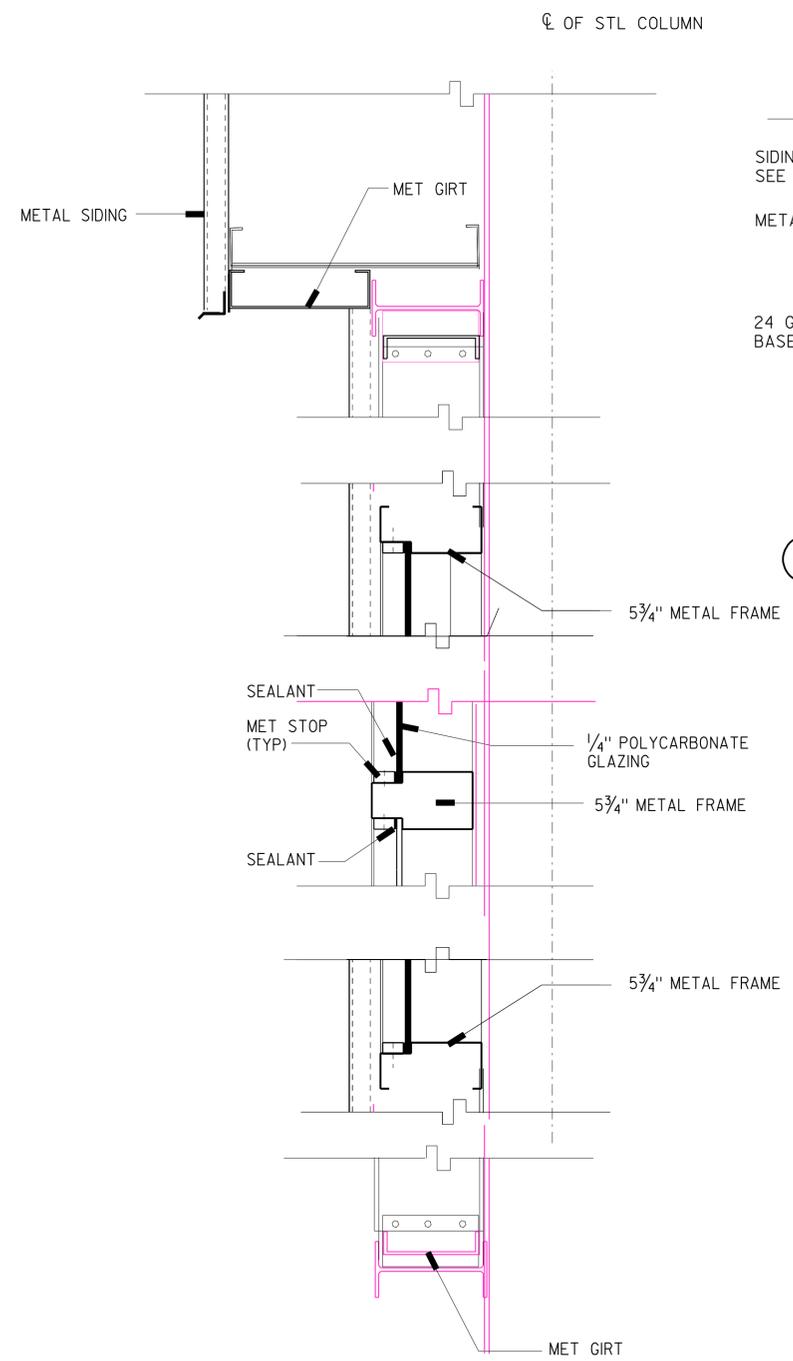
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Nev	5917		25	44
					
LICENSED ARCHITECT					
3-14-11 PLANS APPROVAL DATE					
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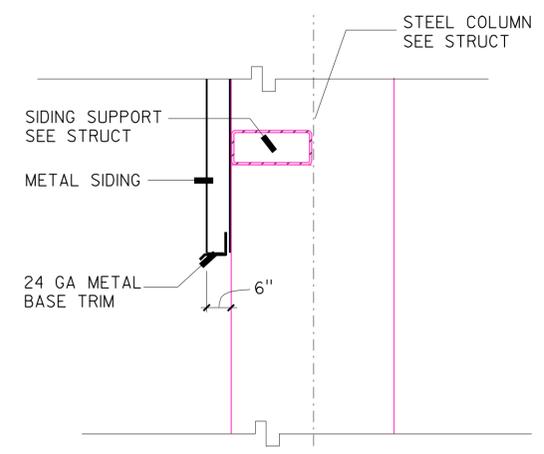
**1 METAL ROOF @ SIDING**  
SCALE 1/2"=1'-0"



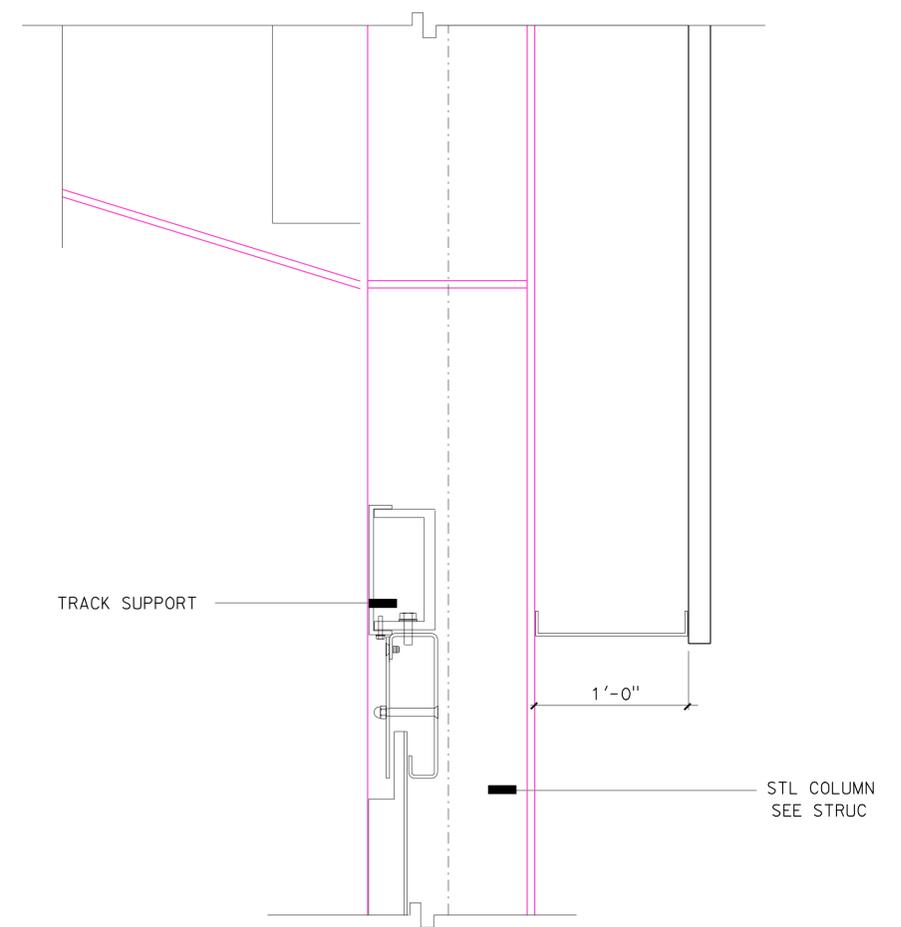
**3 METAL SIDING @ CORNER**  
SCALE 1/2"=1'-0"



**2 WINDOW & SIDING**  
SCALE 1/2"=1'-0"



**6 METAL SIDING @ PEDESTAL**  
SCALE 1/2"=1'-0"



**5 OVERHEAD DOOR**  
SCALE 1/2"=1'-0"

DESIGN	BY HASSAN AKHAVAN	CHECKED
DETAILS	BY	CHECKED
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES  
ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE NO.	L5917
POST MILE	5.1/5.2

CASTLE PEAK SANDHOUSE  
DETAIL

SHEET  
**A-6**

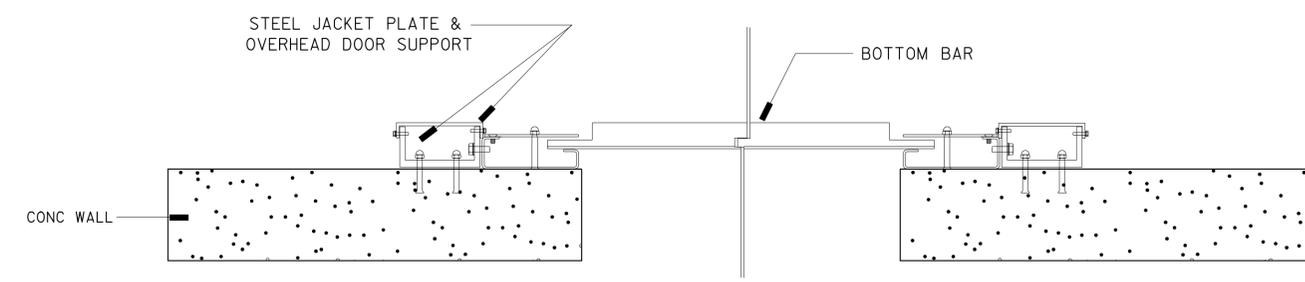
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Nev	5917		26	44

LICENSED ARCHITECT  
 HASSAN AKHAVAN  
 No. C-20451  
 Exp. 04-30-11  
 STATE OF CALIFORNIA

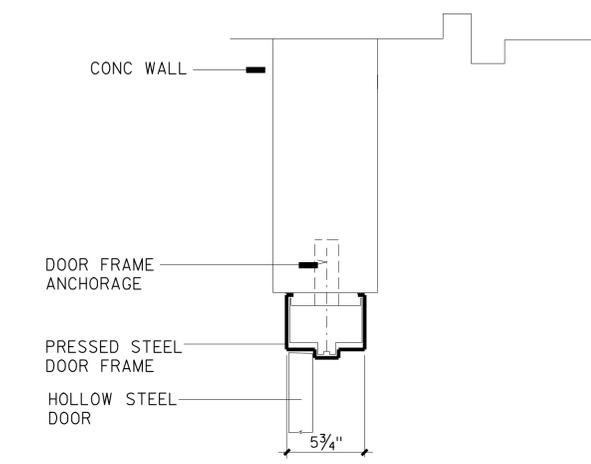
3-14-11  
 PLANS APPROVAL DATE  
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ACCESSIBILITY DESIGN APPROVAL STAMP  
 DOT / DES / OTA  
 PROJECT ID  
**03000007271**  
 Reviewed by: *[Signature]*  
 Date: 12/27/10

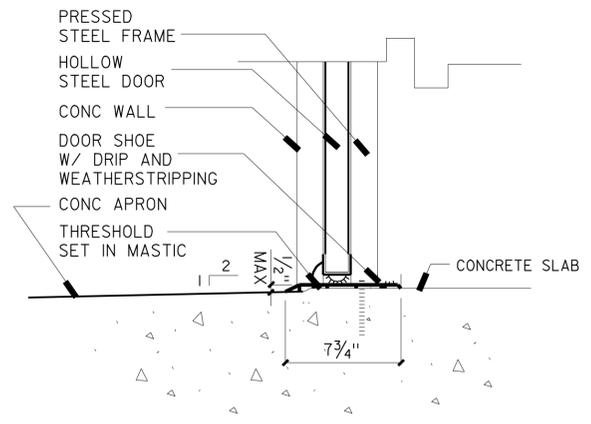
CALIFORNIA STATE FIRE MARSHAL  
 APPROVED  
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.  
 Reviewed by: *[Signature]*  
 Approval date: 12/16/10



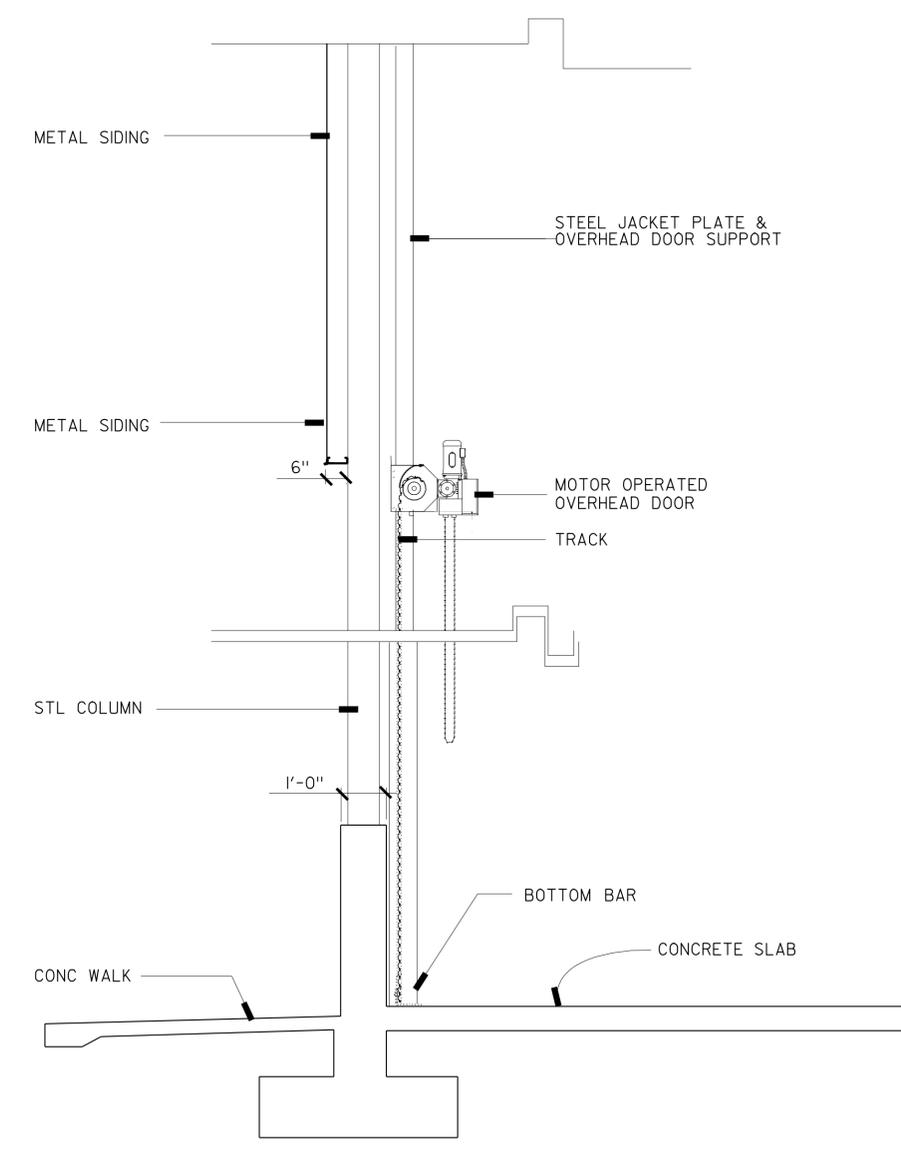
**4 OVER HEAD DOOR JAMB**  
 SCALE 2"=1'-0"



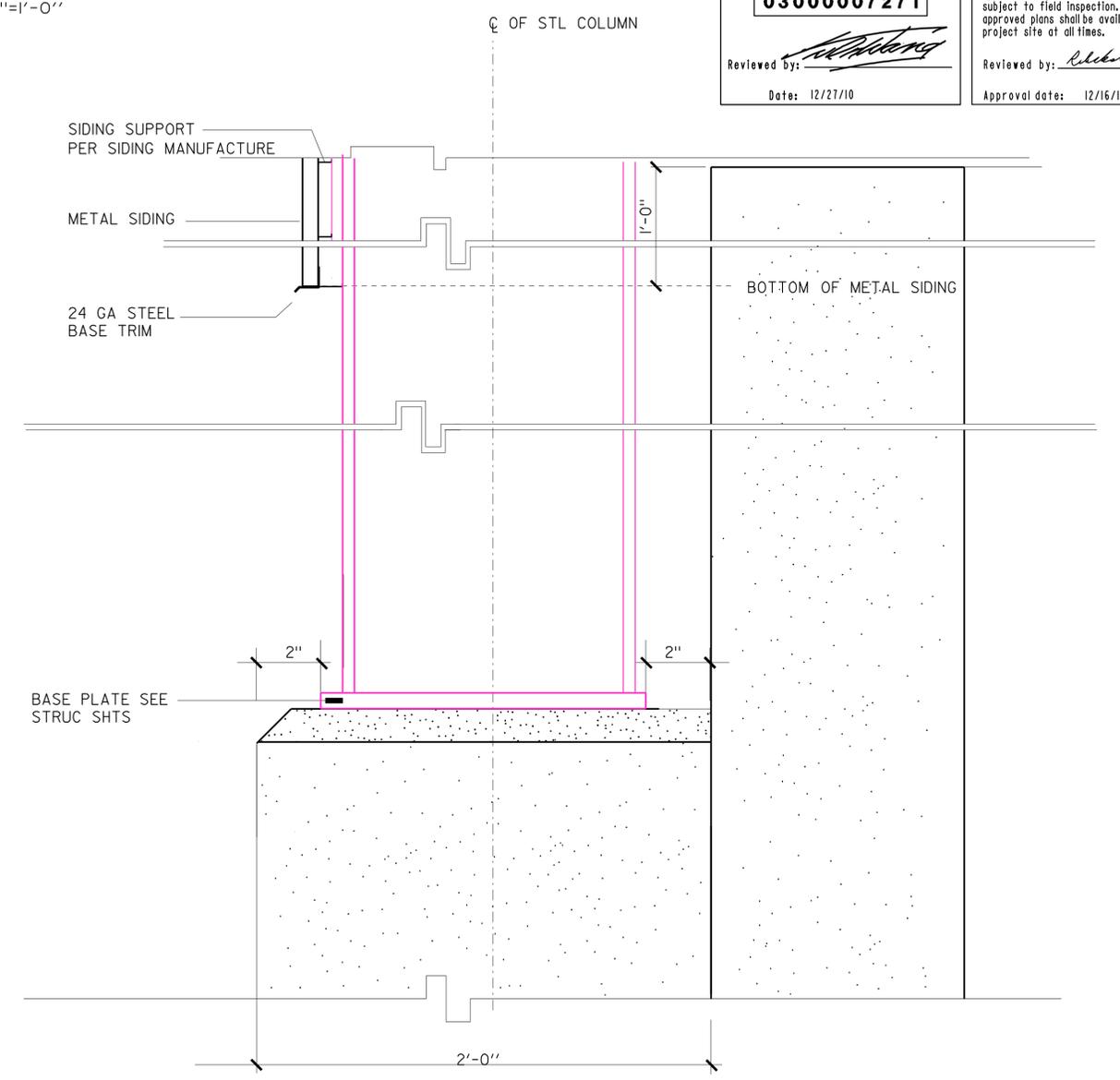
**DOOR HEAD JAMB SIM**



**1 DOOR**  
 SCALE 2"=1'-0"



**2 OVERHEAD DOOR**  
 SCALE 1/2"=1'-0"

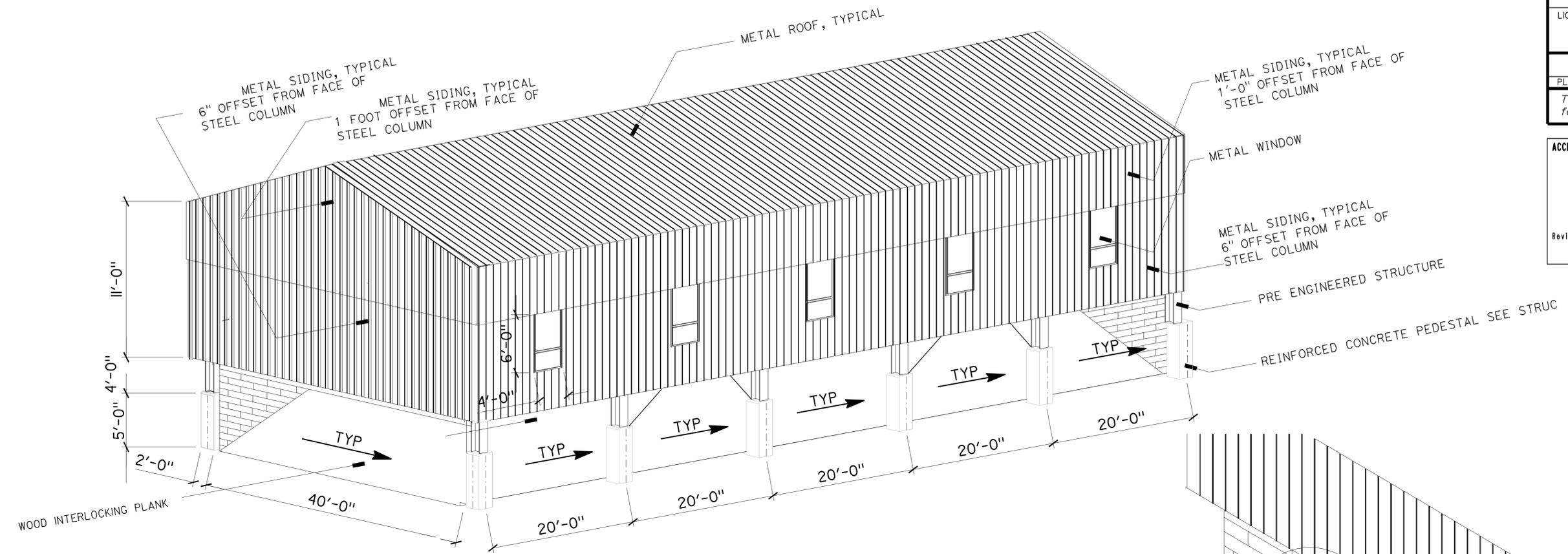


**3 STEEL SIDING @ PEDESTAL**  
 SCALE 1 1/2"=1'-0"

A-7.dgn TAEMWW Imperial Rev. 7/10 11:32	DESIGN	BY HASSAN AKHAVAN	CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. L5917	CASTLE PEAK SANDHOUSE	DETAIL	SHEET OF A-7
	DETAILS	BY	CHECKED		ARCHITECTURAL AND STRUCTURAL DESIGN	POST MILE 5.1/5.2			
QUANTITIES	BY	CHECKED	PROJECT NUMBER & PHASE 03000007271		UNIT 3600	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	EA 4E8800	OCT-2010			

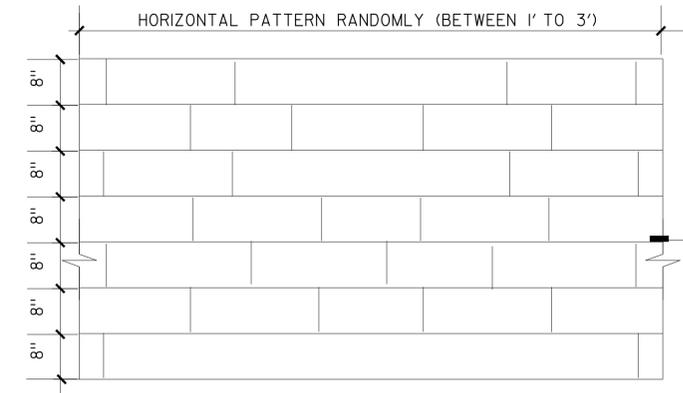
24-MAR-2011 11:32

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Nev	5917		27	44
 LICENSED ARCHITECT HASSAN AKHAVAN No. C-20451 Exp. 04-30-11 STATE OF CALIFORNIA					
3-14-11 PLANS APPROVAL DATE					
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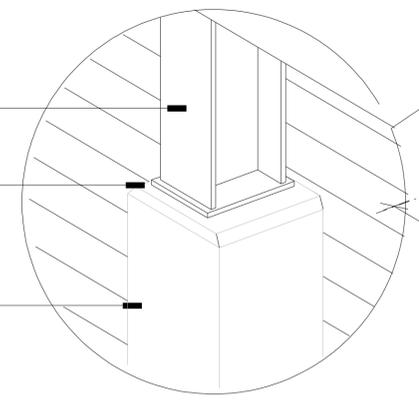
**SAND HOUSE VIEW FROM SOUTH WEST**

NO SCALE



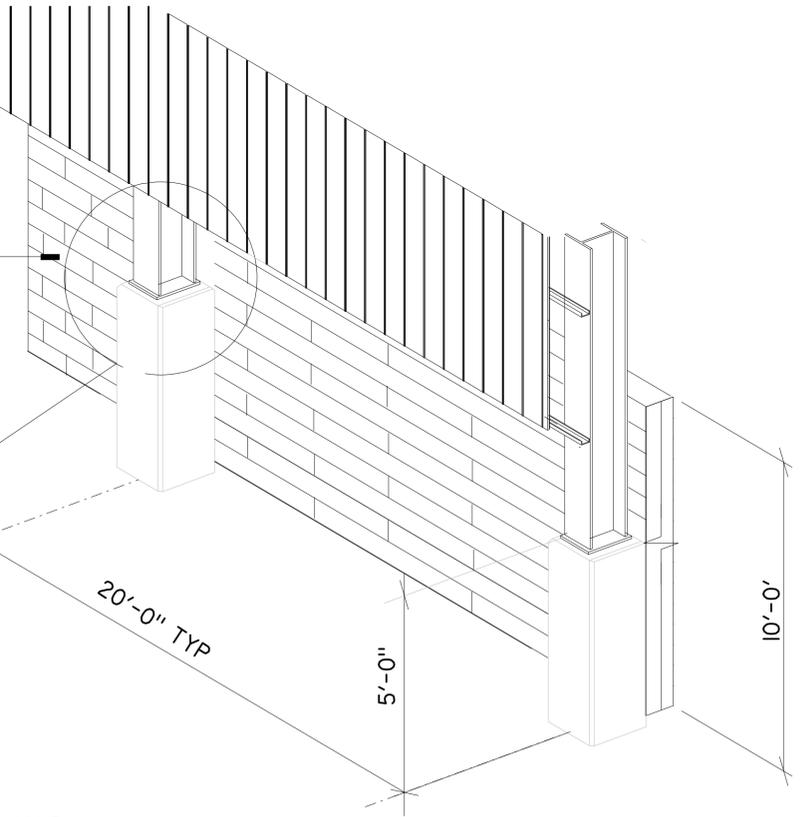
**CONC PATTERN**

SCALE: 6"=1'-0"



**PEDESTAL AND SIDING**

NO SCALE



A-8.dgn TAEMWW Imperial Rev. 7/10	DESIGN	BY HASSAN AKHAVAN	CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO.	<b>CASTLE PEAK SANDHOUSE</b> 3D	SHEET
	DETAILS	BY	CHECKED		ARCHITECTURAL AND STRUCTURAL DESIGN	L5917		<b>A-8</b>
	QUANTITIES	BY	CHECKED		PROJECT NUMBER & PHASE	5.1/5.2	REVISION DATES (PRELIMINARY STAGE ONLY)	
11:33	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0	1	2	3	UNIT	DISREGARD PRINTS BEARING EARLIER REVISION DATES	X
						EA 4E8800	OCT-2010	X

24-MAR-2011 11:33

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Neu	5917		28	44



**Dai Lu**  
 REGISTERED CIVIL ENGINEER  
 12-03-10  
 DATE

3-14-11  
 PLANS APPROVAL DATE

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**ABBREVIATIONS**

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

**SYMBOLS**

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

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

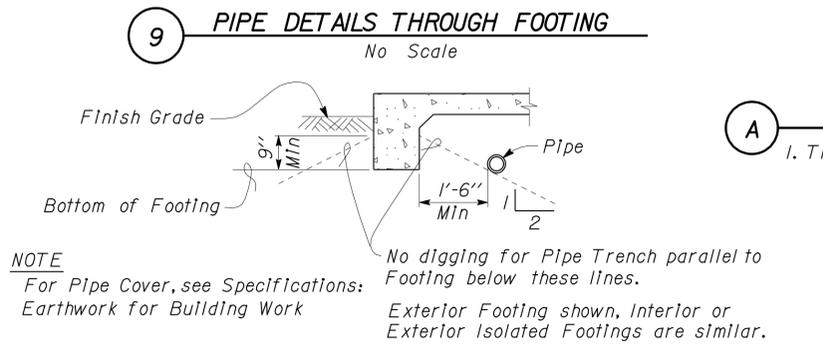
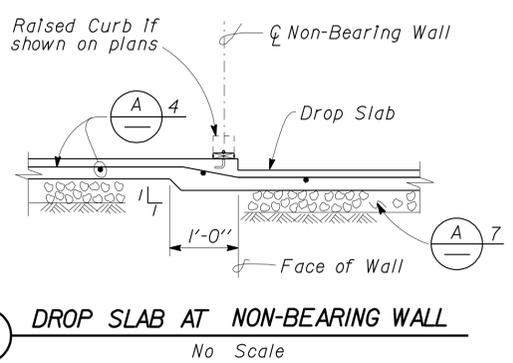
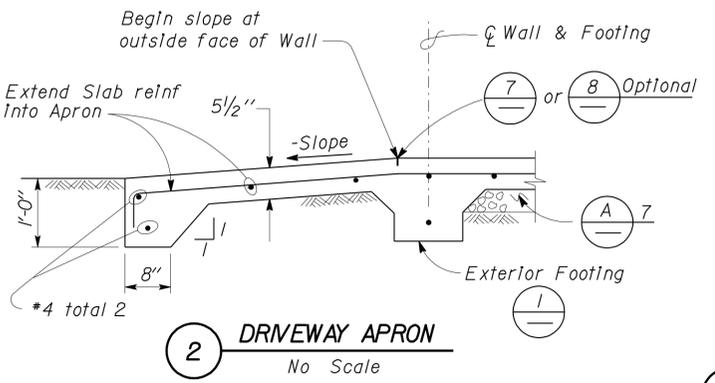
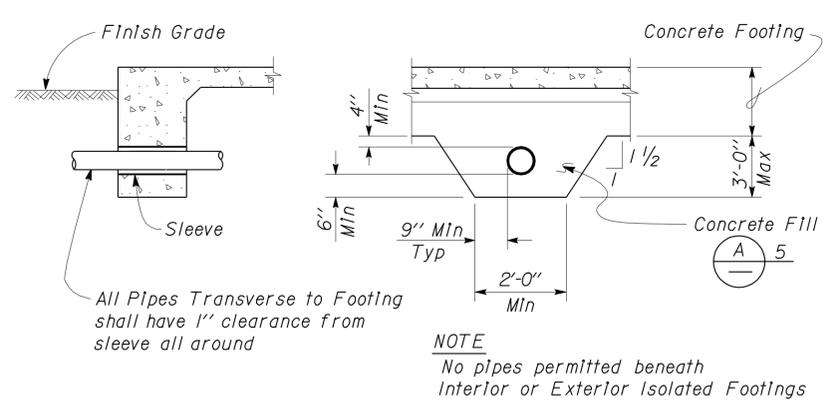
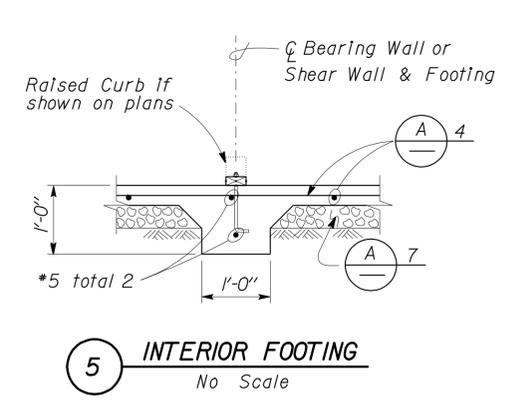
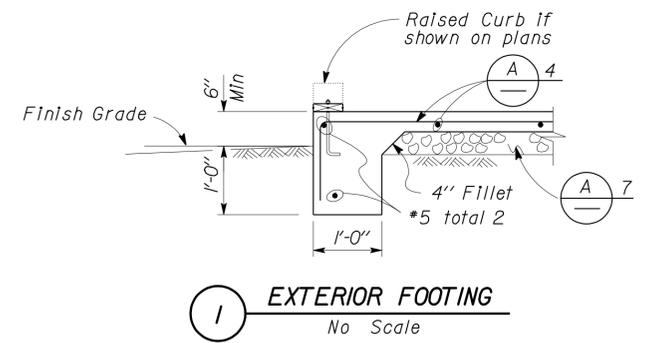
FILE NO. XS-25-0	DESIGN BY <i>Sean Seibel</i>	CHECKED BY <i>George E. Rowe</i>	APPROVED BY <i>R.E. Travis</i>
DRAWING DATE 1-04	DETAILS BY <i>George E. Rowe</i>	CHECKED BY <i>Sean Seibel</i>	DESIGN SUPERVISOR
	SUBMITTED BY <i>Sean Seibel</i>	DESIGN ENGINEER	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES	BRIDGE NO. L5917
ARCHITECTURAL AND STRUCTURAL DESIGN	POST MILE 5.1/5.2

CASTLE PEAK SAND HOUSE	SHEET ST-1
LEGEND	

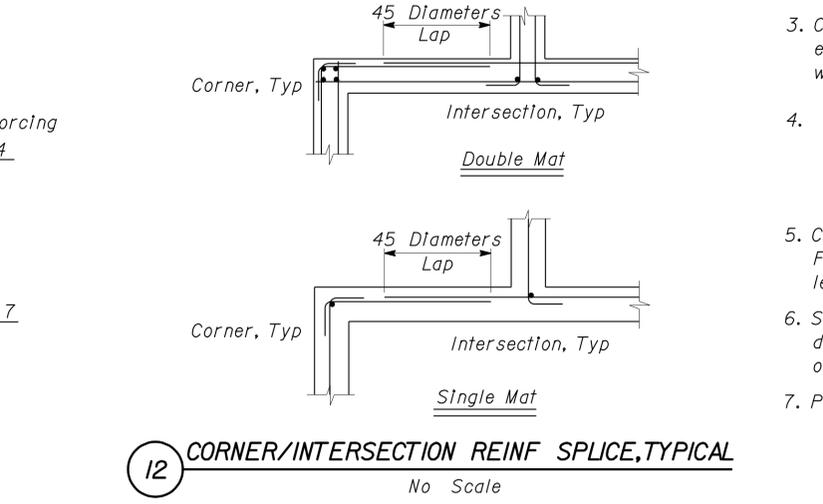
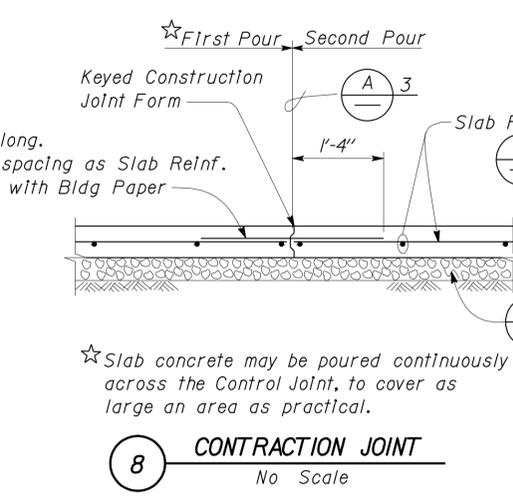
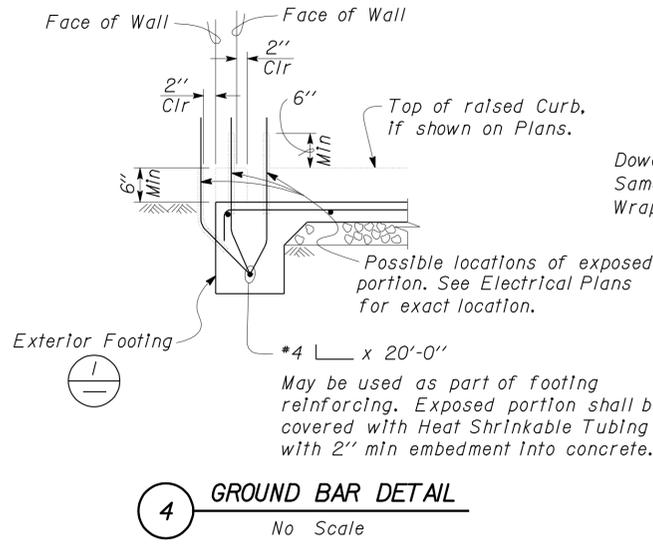
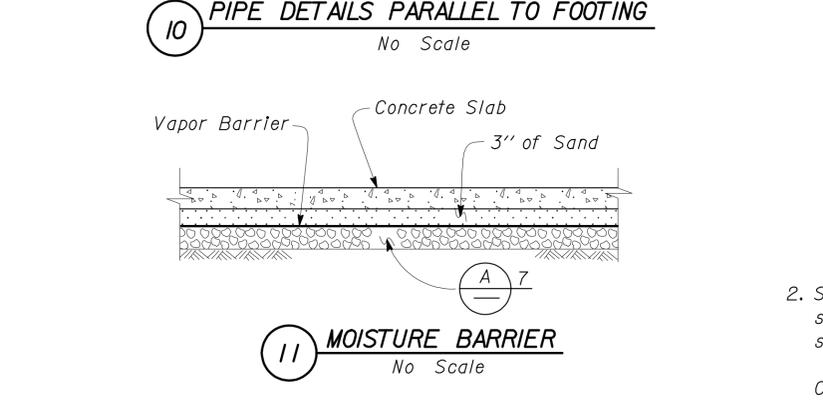
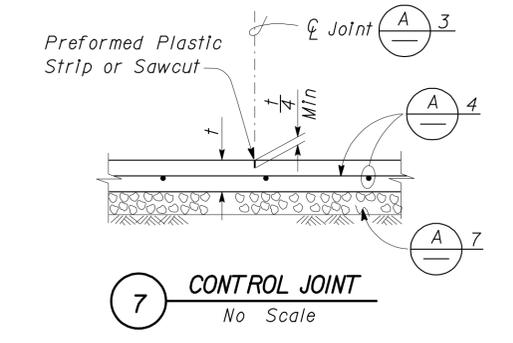
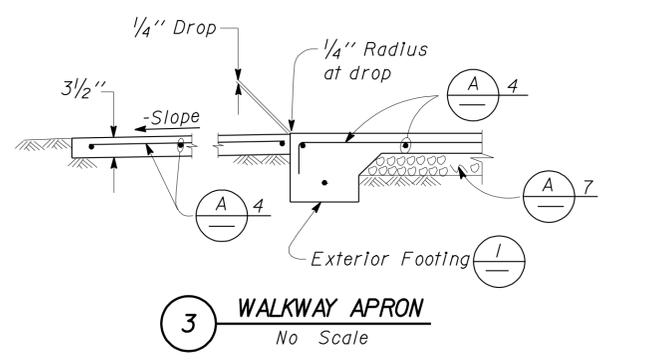
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Nev	5917		29	44
					
REGISTERED CIVIL ENGINEER 12-03-10 3-14-11 PLANS APPROVAL DATE					
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**CONCRETE NOTES**

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

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



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

FILE NO. XS-25-1	DESIGN BY <i>Sean Seavel</i>	CHECKED BY <i>Steve Gaudin</i>	APPROVED BY <i>R.E. Brown</i>	STATE OF CALIFORNIA	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. L5917	CASTLE PEAK SAND HOUSE	SHEET ST-2
DRAWING DATE 1-04	DETAILS BY <i>Peter F. von Savoy</i>	CHECKED BY <i>Steve Gaudin</i>	DESIGN SUPERVISOR	DEPARTMENT OF TRANSPORTATION	ARCHITECTURAL AND STRUCTURAL DESIGN	POST MILE 5.1/5.2	CONCRETE STANDARD	
DATE PREPARED 9/02	SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3599 03000007271	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF

**PROJECT DESIGN CRITERIA**

The building work on this project has been designed to conform to the 2007 California Building Code (2006 IBC).

**DETAIL NOTES**

**A PRE-ENGINEERED BUILDING DESIGN NOTES**

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Neu	5917		30	44

*Dailu* 12-03-10  
 REGISTERED CIVIL ENGINEER DATE

3-14-11  
 PLANS APPROVAL DATE

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**LOADS**

**SEISMIC:** Occupancy Category = I  
 Importance Factor I = 1.0  
 Site Soil Class = D  
 $S_S = 1.139$   $S_{DS} = 0.800$   
 $S_I = 0.392$   $S_{DI} = 0.422$   
 Seismic Design Category = D  
**Seismic Force-Resisting System:**

North - South

$R = 3.25$   $C_S = 0.2500$

East - West

$R = 3.25$   $C_S = 0.2500$

**WIND:** Basic Wind Speed = 125 mph  $q_h = 21$  psf  
 Importance Factor I = 0.9  $GCP_i = 0.18$   
 Exposure B  
 Wind Pressure on Components and Cladding = 58 psf

**LIVE LOAD:** Roof = 20 psf

**SNOW LOAD:**  $C_e = .9$   $C_t = 1.2$  I = 0.8  
 $P_g = 463$  psf  
 $P_f = 280$  psf

- For Concrete see: "Concrete Standard"
- All bolts shall be hex head machine bolts, with hex head nuts; unless otherwise noted.
- All lock washers shall be helical spring lock washers.
- All Miscellaneous Metal to shall be hot-dip galvanized after fabrication.
- All reinforcing bars shall be epoxy coated except ground bars.
- All reinforcing bars shall have 3" clear, Unless Otherwise Noted..
- Foundation design is subject to modification based upon the requirements of the pre-engineered building design. Construct foundation after approval of pre-engineered building submittal.

- Rigid Frames shall be provided at Gridlines A through F
- Braced Frames shall be provided at Gridlines 1 and 2
- For Design Loads, see "Project Design Criteria", this sheet.
- Collateral Loads shall include the static loads other than Design Loads; such as mechanical and electrical system, etc.
- Deflection criteria :  
 Story drift = H/100  
 Framing Members = L/180 (D+L)
- Maximum Roof Purlin spacing is to be 5'-0" OC.
- Provide Framing for all Wall and Roof Penetrations, Electrical Fixtures and Doors. Framing Plans, details and calculations shall be submitted for approval prior to any installation.
- Girts shall be the Exterior Type.
- Anchor bolts shown are minimum. Contractor shall follow pre-engineered building manufacturer requirements.
- The Pre-Engineered Building design shall not transmit moment into the footings.
- The rigid frame support anchor bolts shall be embedded into the footing a minimum of 20 bolt diameters.
- The Pre-Engineered Building design plans, details and all calculations shall be submitted for approval prior to any installation.

**MATERIALS**

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

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

**COLD FORMED STEEL:** Thickness <= 43 mils  $F_y = 33$  ksi  
 Thickness > 43 mils  $F_y = 50$  ksi

**FOUNDATION:**  
 Soil recommendations: Sep 23, 2010  
 Allowable Soil Pressure (DL + LL) : = 2,500 psf

DESIGN BY <i>Dailu</i>	CHECKED <i>Thomas K. Reich</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. L5917	CASTLE PEAK SAND HOUSE	SHEET ST1-0
DETAILS BY <i>George E. Rowe</i>	CHECKED <i>Dailu</i>			POST MILE 5.1/5.2		
QUANTITIES BY	CHECKED			SAND HOUSE		

TAEMWW Imperial Rev. 7/10 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 UNIT PROJECT NUMBER & PHASE 3599 03000007271 DISREGARD PRINTS BEARING EARLIER REVISION DATES 10-26-10 REVISION DATES (PRELIMINARY STAGE ONLY) SHEET OF

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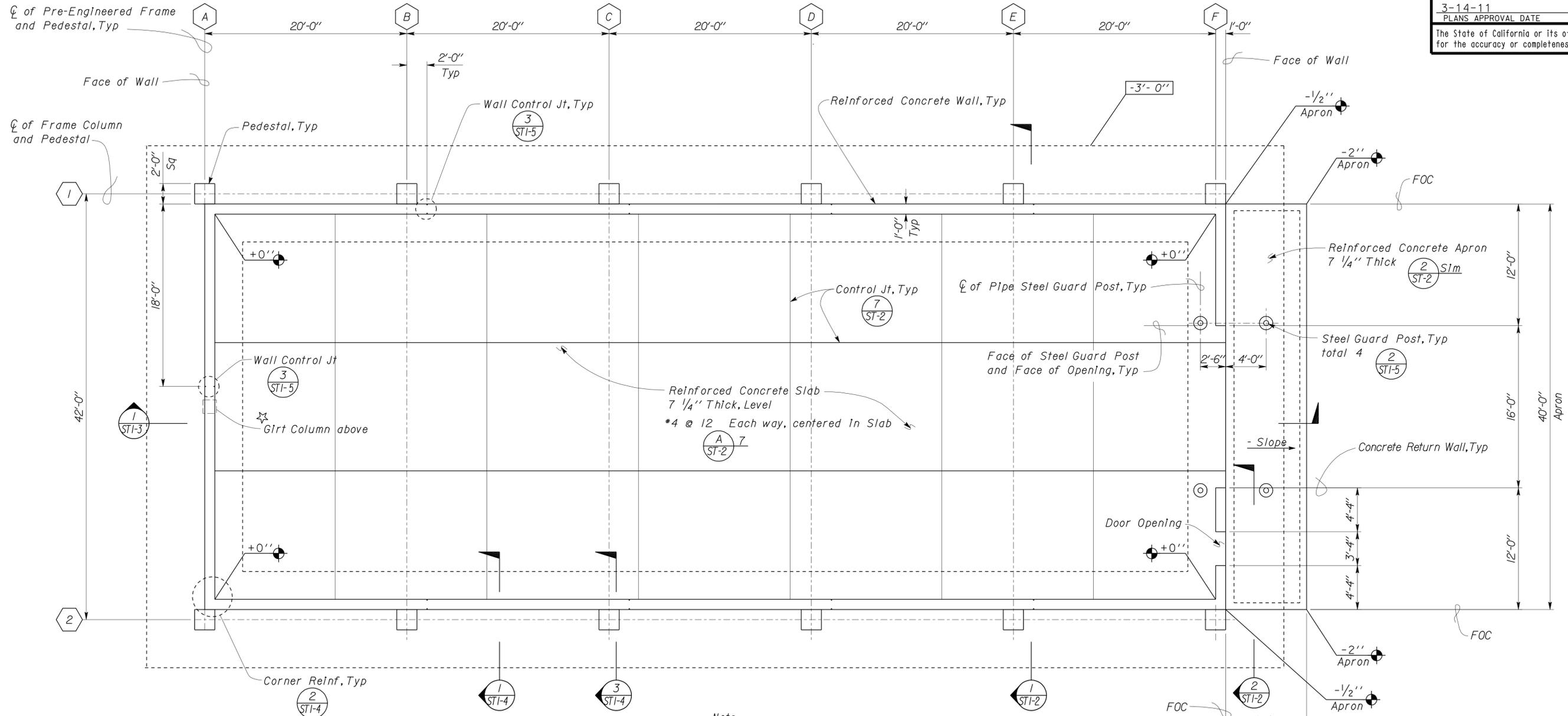
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Nev	5917		31	44

12-03-10  
 DATE

**Dailu**  
 REGISTERED CIVIL ENGINEER  
 No. 67416  
 Exp. 12-31-12  
 CIVIL  
 STATE OF CALIFORNIA

3-14-11  
 PLANS APPROVAL DATE

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Note  
 Where Ground Bar occurs, see Electrical Plans for location.  
 See (4) ST-2 for Detail.

Note  
 Girt Column located at top of Concrete Wall.  
 Number of Columns, and spacing, as per Pre-Engineered Building Designer.

**1 FOUNDATION PLAN**  
 Scale 3/16" = 1'-0"  
 Elevation 7185.51 = Datum 0'-0"

DESIGN	BY <i>Dailu</i>	CHECKED <i>Thomas K. Reich</i>
DETAILS	BY <i>George E. Rowe</i>	CHECKED <i>Dailu</i>
QUANTITIES	BY	CHECKED

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

BRIDGE NO.	L5917	CASTLE PEAK SAND HOUSE
POST MILE	5.1/5.2	
SAND HOUSE		FOUNDATION PLAN

SHEET **ST1-1**

24-MAR-2011 11:33

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Neu	5917		32	44

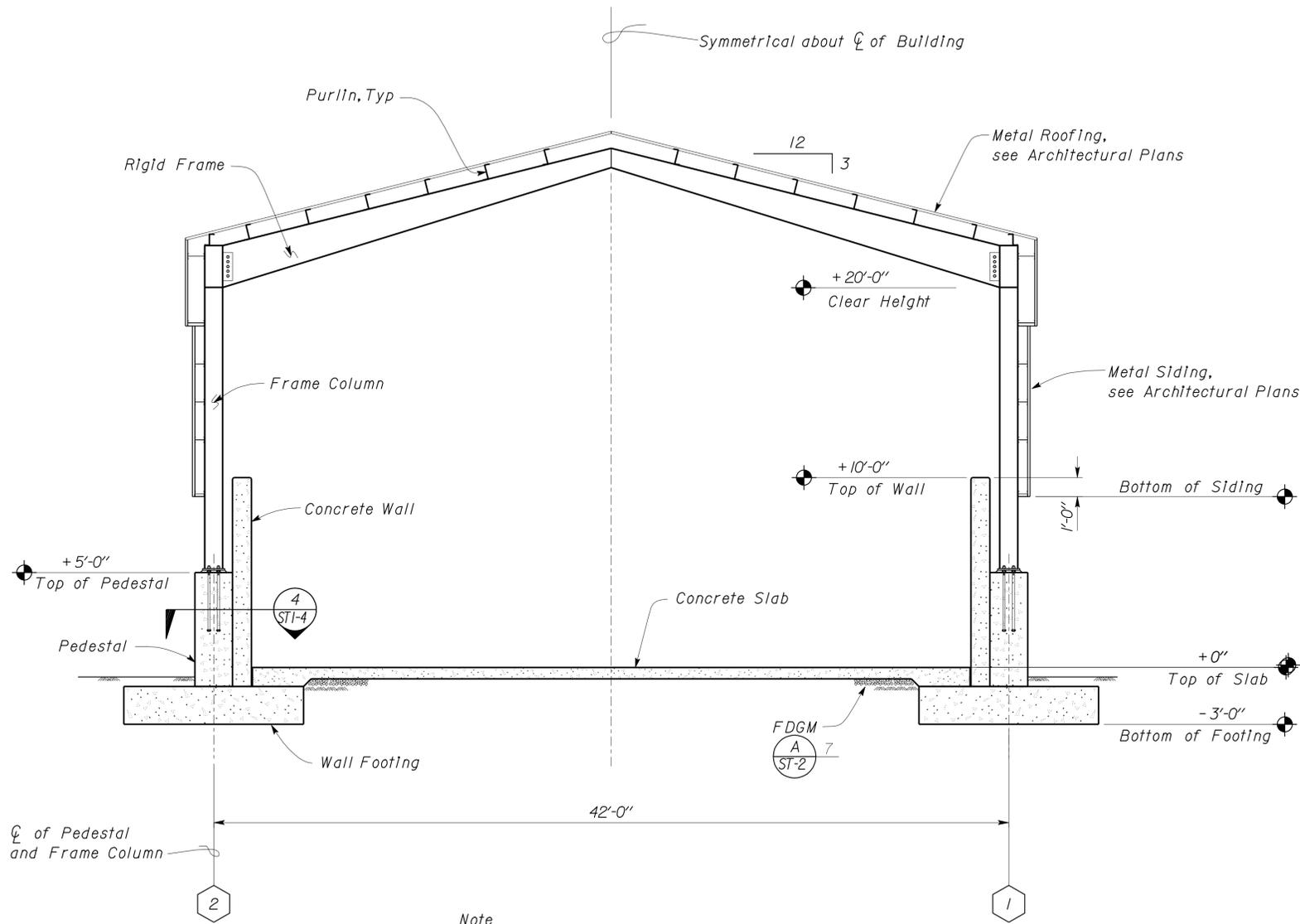
12-03-10  
 DATE

**Dailu**  
 REGISTERED CIVIL ENGINEER

3-14-11  
 PLANS APPROVAL DATE

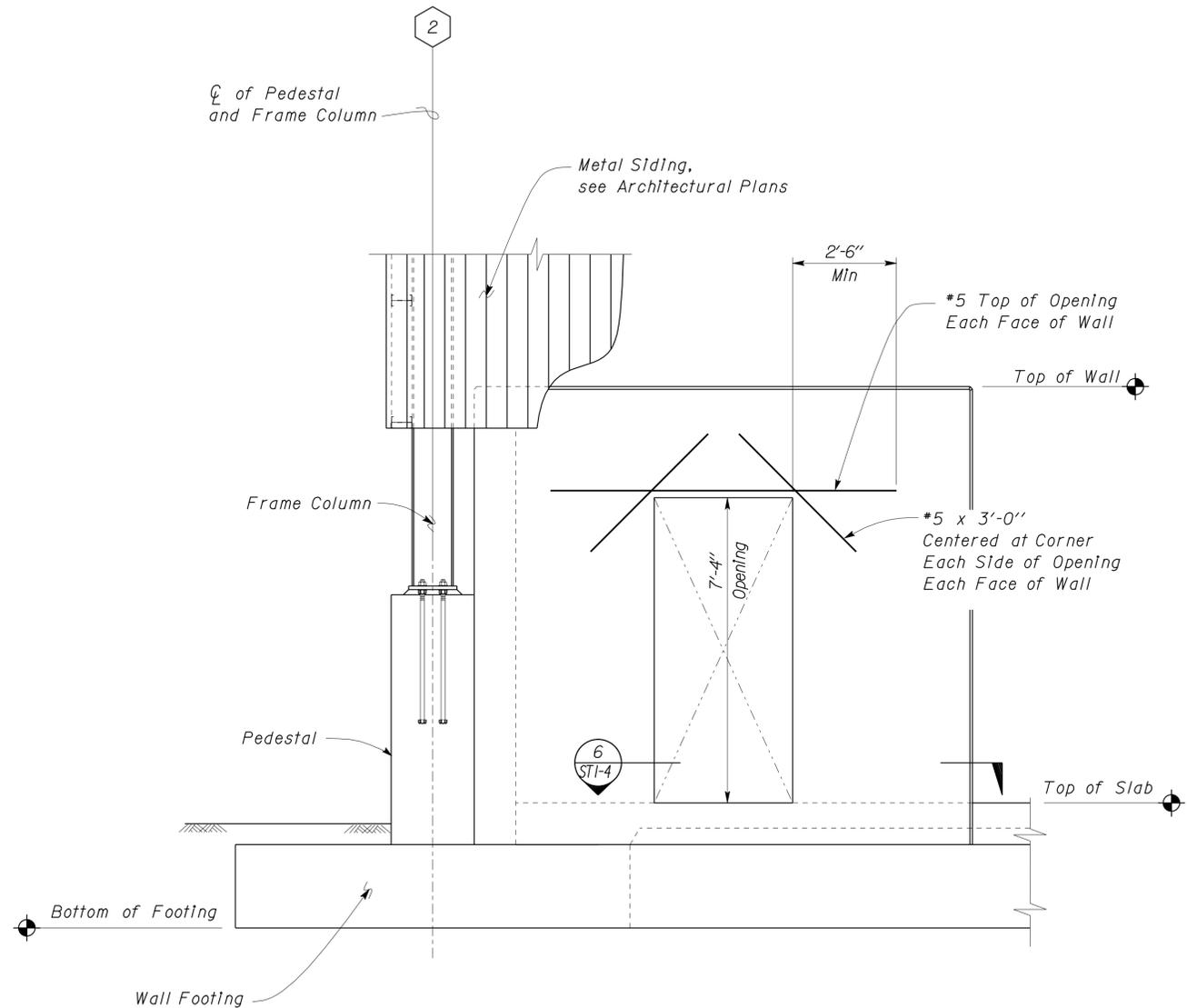
REGISTERED PROFESSIONAL ENGINEER  
 Dailu Lu  
 No. 67416  
 Exp. 12-31-12  
 CIVIL  
 STATE OF CALIFORNIA

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Note  
For Elevation Views see Architectural Plans

**1** TRANSVERSE BUILDING SECTION  
Scale 1/4" = 1' - 0"



Note  
Apron not shown.

**2** DOOR OPENING DETAIL  
Scale 1/2" = 1' - 0"

DESIGN	BY <i>Dailu</i>	CHECKED <i>Thomas Reich</i>
DETAILS	BY <i>George E. Rowe</i>	CHECKED <i>Dailu</i>
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES  
 ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE NO.	L5917	SAND HOUSE	TRANSVERSE BUILDING SECTION AND DETAILS
POST MILE	5.1/5.2		

SHEET  
**ST1-2**

TAEMWW Imperial Rev. 7/10

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

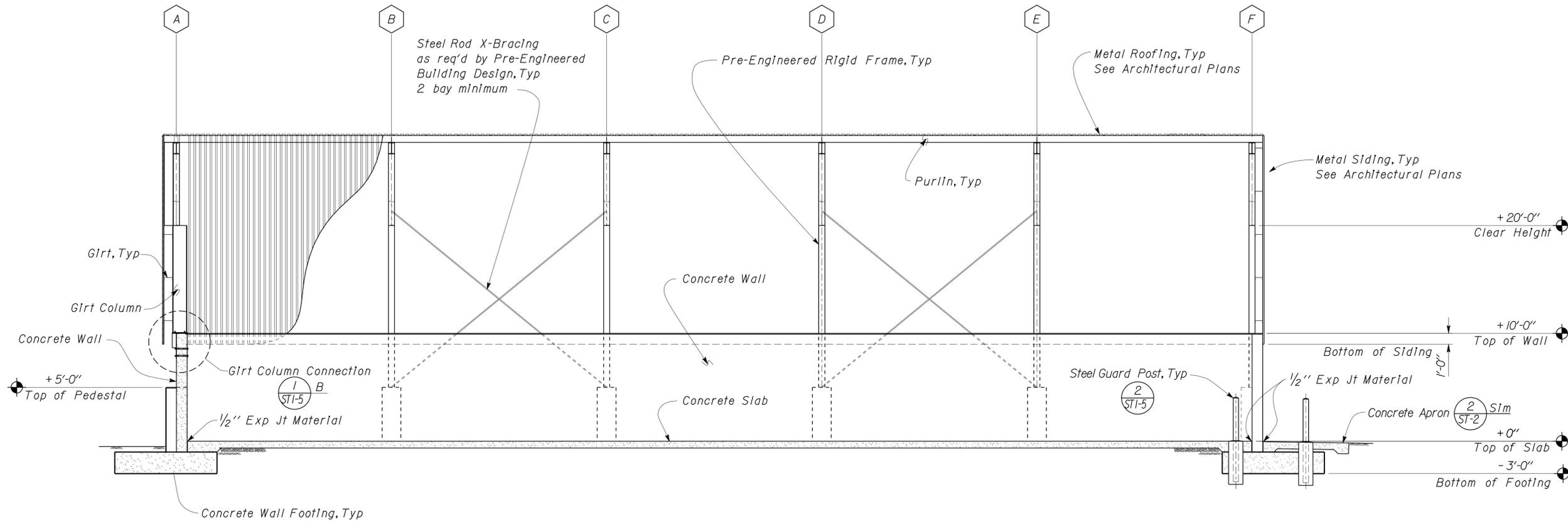
UNIT PROJECT NUMBER & PHASE  
3599 03000007271  
EA 4E8801

DISREGARD PRINTS BEARING EARLIER REVISION DATES

SHEET OF

24-MAR-2011 11:33

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Neu	5917		33	44
<i>Dailu</i> REGISTERED CIVIL ENGINEER			12-03-10 DATE		
3-14-11 PLANS APPROVAL DATE					
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**1 LONGITUDINAL BUILDING SECTION**  
 Scale 3/16" = 1' - 0"

DESIGN	BY <i>Dailu</i>	CHECKED <i>Thomas K. Reich</i>
DETAILS	BY <i>George E. Rowe</i>	CHECKED <i>Dailu</i>
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES  
 ARCHITECTURAL AND STRUCTURAL DESIGN

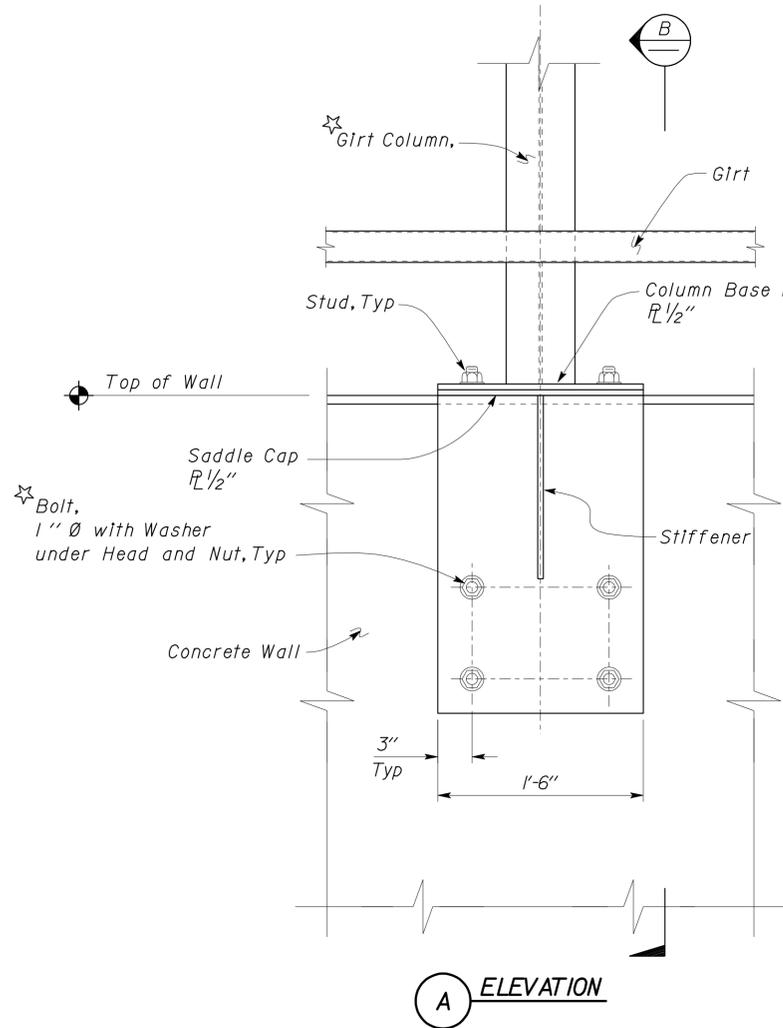
BRIDGE NO.	L5917
POST MILE	5.1/5.2

CASTLE PEAK SAND HOUSE	
SAND HOUSE	LONGITUDINAL BUILDING SECTION

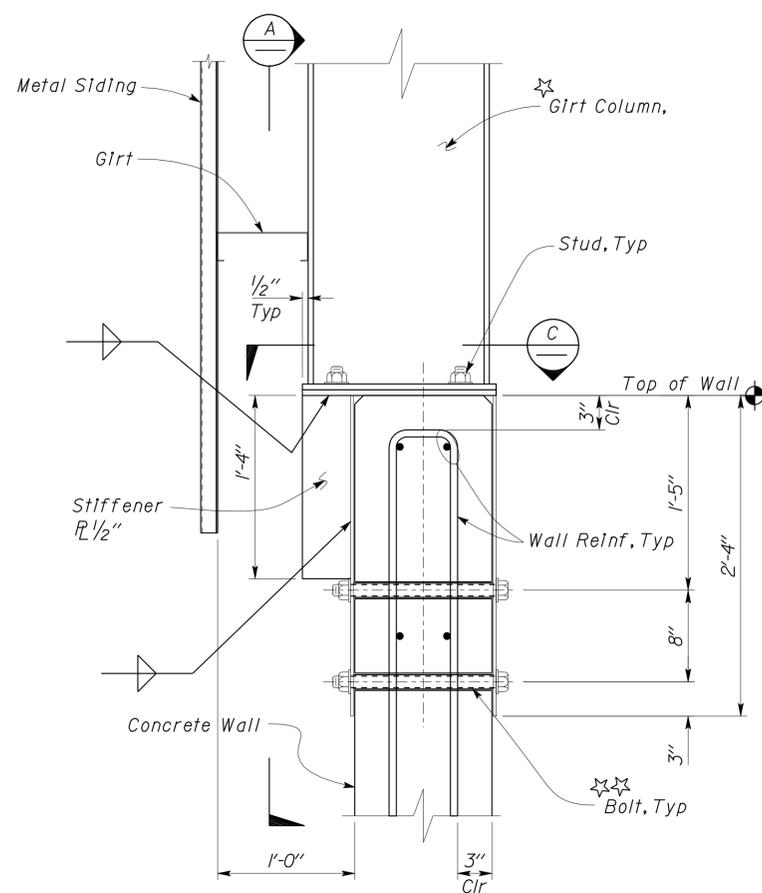
SHEET  
**ST1-3**



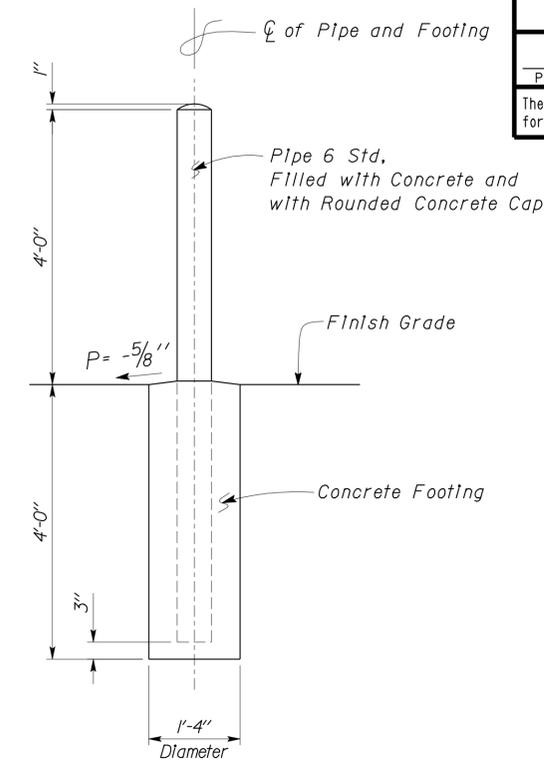
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Nev	5917		35	44
<i>Dailu</i> REGISTERED CIVIL ENGINEER			12-03-10 DATE		
3-14-11 PLANS APPROVAL DATE					
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**A** ELEVATION



**B** SECTION



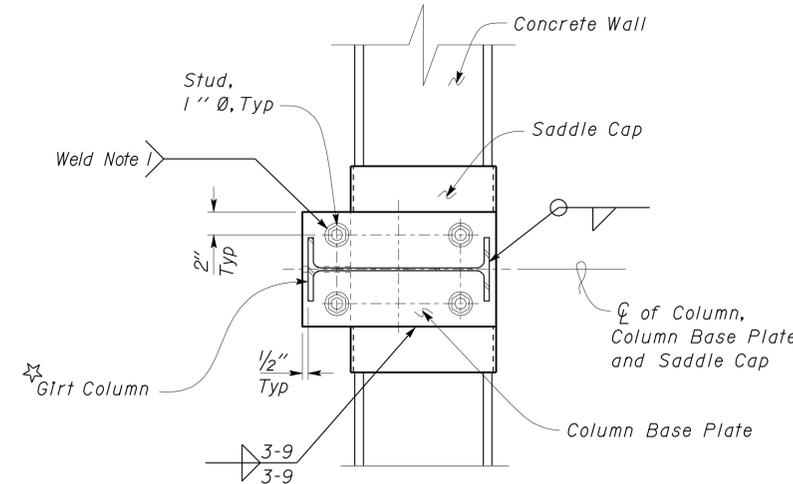
**2** STEEL GUARD POST DETAIL  
Scale 3/4" = 1'-0"

**Notes**

1. Girt Column as per Pre-Engineered Building Manufacturer.
2. Provide Neoprene Sleeves for Bolts, Typ
3. Provide blockout holes to accomodate Bolt diameter, and Neoprene Sleeve thickness.

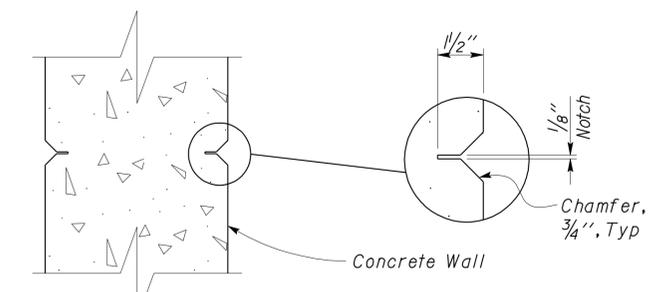
**Weld Note**

1. Stud Weld 1" Ø Stud to Saddle Cap.



**C** PLAN

**1** GIRT COLUMN TO WALL CONNECTION  
Scale 1 1/2" = 1'-0"



**3** WALL CONTROL JOINT DETAIL  
Scale 2" = 1'-0"

DESIGN	BY	<i>Dailu</i>	CHECKED	<i>Thomas K. Reich</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO.	CASTLE PEAK SAND HOUSE		SHEET ST1-5
	DETAILS	BY	<i>George E. Rowe</i>	CHECKED			<i>Dailu</i>	L5917	SAND HOUSE	
QUANTITIES	BY		CHECKED		PROJECT NUMBER & PHASE	3599 03000007271	POST MILE	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF
					ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	5.1/5.2	10-26-10   12-28-10		

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

SYMBOL	DESCRIPTION
	POLE-TOP ELECTROLIER
	POLE-ARM ELECTROLIER
<b>CEILING WALL</b>	
	SURFACE FLUORESCENT, METAL HALIDE OR SODIUM VAPOR FIXTURE
	RECESSED FLUORESCENT, METAL HALIDE, OR SODIUM VAPOR FIXTURE
	EXIT LIGHT
	SURFACE OR PENDANT INDIVIDUAL FLUORESCENT FIXTURE
	RECESSED INDIVIDUAL FLUORESCENT FIXTURE
	SURFACE OR PENDANT CONTINUOUS ROW FLUORESCENT FIXTURES
NOTE:	A LOWER CASE LETTER NEAR GRAPHIC LIGHTING FIXTURE SYMBOL DENOTES THAT FIXTURE IS CONTROLLED BY A SIMILARLY MARKED SWITCH, AN ALPHA-NUMERIC 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  (4) - NUMBER OF FIXTURES F - FLUORESCENT 2 - DESIGN TYPE 2 - LAMPS 32 - 32 WATT LAMPS
	BLANK OUTLET
	JUNCTION BOX
	DROP CORD
	SINGLE RECEPTACLE OUTLET
	DUPLEX RECEPTACLE OUTLET
	DUPLEX RECEPTACLE OUTLET (WITH GFCI)
	DUPLEX RECEPTACLE OUTLET, WEATHERPROOF (WITH GFCI)
	SINGLE, SPECIAL PURPOSE RECEPTACLE OUTLET
	DUPLEX, SPECIAL PURPOSE RECEPTACLE OUTLET
	RANGE OUTLET
	CLOCK HANGER RECEPTACLE
	FAN HANGER RECEPTACLE
	FLOOR SINGLE RECEPTACLE OUTLET
	FLOOR DUPLEX RECEPTACLE OUTLET
	FLOOR SPECIAL PURPOSE OUTLET
	FLOOR RADIO OUTLET
	FLOOR TELEPHONE OUTLET
	MULTI-FLOOR OUTLET, 2 OR MORE GANG
	MULTI-OUTLET ASSEMBLY
S	SINGLE POLE SWITCH
S <sub>2</sub>	DOUBLE POLE SWITCH
S <sub>3</sub>	THREE WAY SWITCH
S <sub>4</sub>	FOUR WAY SWITCH
S <sub>D</sub>	AUTOMATIC DOOR
S <sub>K</sub>	KEY OPERATED SWITCH
S <sub>P</sub>	SWITCH AND PILOT LIGHT
S <sub>MC</sub>	MOMENTARY CONTACT SWITCH
S <sub>RC</sub>	REMOTE CONTROL SWITCH
S <sub>WP</sub>	WEATHERPROOF SWITCH
S <sub>F</sub>	FAN SWITCH
S <sub>L</sub>	LIGHT SWITCH
S <sub>H</sub>	HEATER SWITCH
S <sub>VS</sub>	VARIABLE SPEED MOTOR CONTROL SWITCH
S <sub>CHLF</sub>	TWO SWITCHES, ONE SWITCH FOR LIGHT AND FAN AND TIMER SWITCH FOR HEAT LAMP

SYMBOL	DESCRIPTION
S <sub>1</sub>	OCCUPANCY SENSOR WALL SWITCH, SINGLE LEVEL
S <sub>2</sub>	OCCUPANCY SENSOR WALL SWITCH, BILEVEL
S <sub>M</sub>	MOTION SENSOR SWITCH
S <sub>T</sub>	MANUAL MOTOR STARTING SWITCH, THERMAL OVERLOAD TYPE
S <sub>HP</sub>	MANUAL MOTOR STARTING SWITCH, WITHOUT OVERLOAD ELEMENT
T <sub>s</sub>	TIMER SWITCH
S	SWITCH AND SINGLE RECEPTACLE
S	SWITCH AND DUPLEX RECEPTACLE
	HAND DRYER NOZZLE
	HAND DRYER
	RADIO OUTLET
	TELEPHONE OUTLET
	SOUND SYSTEM LOUD SPEAKER OUTLET
	PUSHBUTTON
	PUSHBUTTON STATION, NC, WITH LOCKING DEVICE FOR OPEN
	PUSHBUTTON STATION MOTOR CONTROL
	BUZZER
	BELL
	COMBINATION BELL-BUZZER
	THERMOSTAT
	PRESSURE SWITCH
	CONTROL RELAY
	FLOW SWITCH
	PHOTOELECTRIC CELL
	RADIO OUTLET
	TELEVISION OUTLET
	MICROPHONE OUTLET
	FLUSH-MOUNTED PANELBOARD AND CABINET
	SURFACE-MOUNTED PANELBOARD AND CABINET
	LIGHTING PANEL
	POWER PANEL
	COMBINATION LIGHTING AND POWER
	MOTOR CONTROLLER
	DISCONNECT SWITCH
	CONDUIT CONCEALED IN CEILING OR WALL
	CONDUIT CONCEALED IN FLOOR
	CONDUIT EXPOSED
	CROSS-LINES INDICATE NUMBER OF #12 AWG CONDUCTORS. LONGER CROSS-LINE INDICATES #12 AWG (G) FOR EQUIPMENT GROUNDING CONDUCTOR. NO CROSS-LINE INDICATES 2#12 WITH #12 (G) UNLESS OTHERWISE NOTED. ALL CONDUIT SHALL BE 1/2" UNLESS OTHERWISE NOTED.
	HOMERUN TO PANELBOARD, ARROWS INDICATE NUMBER OF CIRCUITS, LETTER DENOTES PANELBOARD, NUMERAL DENOTES CIRCUIT.
	SURFACE METAL RACEWAY
	(2) 1/2" C, PVC, 2#12 CONDUCTOR INFO (PER CONDUIT) CONDUIT TYPE CONDUIT SIZE NUMBER OF CONDUITS (NO NUMBER INDICATES ONE CONDUIT)
	CONDUIT, RIGID STEEL, UNDERGROUND
	CONDUIT, POLYVINYL CHLORIDE, UNDERGROUND
	CONDUIT, FLEXIBLE
	CONDUIT, TURN UP
	CONDUIT, TURN DOWN
	CONDUIT SEAL, EXPLOSION-PROOF
	CONDUIT, EXPANSION JOINT
	ADAPTER, ONE TYPE CONDUIT TO ANOTHER
	POLE

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

**REMODEL WORK**

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

**STANDARD NOTES**

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

**GRAPHIC SYMBOLS FOR ELECTRICAL DIAGRAMS**

SYMBOL	DESCRIPTION
	CIRCUIT BREAKER, SINGLE POLE
	CIRCUIT BREAKER, DOUBLE POLE
	CIRCUIT BREAKER, THREE POLE
	CIRCUIT BREAKER, WITH GROUND FAULT CIRCUIT INTERRUPTER
	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
	VARIABLE RESISTOR
	TRANSFORMER WINDING
	GROUNDING ELECTRODE
	ENCLOSURE BOND
	PILOT LIGHT (A=AMBER, G=GREEN, R=RED)
	GENERATOR
	MOTOR
	FAN MOTOR

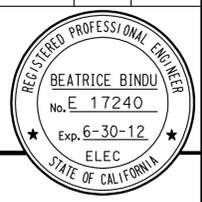
**PROJECT NOTES**

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

**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: *Robert T...*  
 Approval date: 12/16/10

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Nev	5917		36	44

Reviewed by: *Beatrice Bindu* 12-28-10  
 REGISTERED ELECTRICAL ENGINEER DATE  
 3-14-11  
 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**

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
F	EXHAUST FAN
F	FUSE
FL	FAILURE LIGHT
FLA	FLASHER
FLEX	FLEXIBLE CONDUIT
FLS	FLOW SWITCH
FR	FAILURE RESET
FS	FLOAT SWITCH
G	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GRS	GALVANIZED RIGID STEEL
IR	INDUCTION RELAY
JB	JUNCTION BOX
L	LIGHT
LC	LIGHTING CONTACTOR
LCP	LIGHTING CONTROL PANEL
LD	LIGHT DISCONNECT
LL	LIQUID LEVEL RELAY
LLC	LIQUID LEVEL CONTROLLER
LP	LIGHT PANEL
LS	LIGHT SWITCH
LT	LIGHT TRANSFORMER
LTO	LIGHT TRANSFORMER OVERLOAD
MB	MAIN BREAKER
MC	METALLIC CONDUIT
MCP	MOTOR CIRCUIT PROTECTOR
MCC	MOTOR CONTROL CENTER
MSB	MAIN SWITCHBOARD
MT	EMPTY CONDUIT
(N)	NEW
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NSW	NEUTRAL SWITCHING BREAKER
OL	OVERLOAD
OLCS	OUTSIDE LIGHT CONTROL STATION
P	Pole
PB	PULL BOX
PB	PUSH BUTTON
PFR	PHASE FAILURE RELAY
PFRD	PHASE FAILURE RELAY DISCONNECT
PEC	PHOTOELECTRIC CELL
PL	PILOT LIGHT
PS	PRESSURE SWITCH
PTS	POWER TRANSFER SWITCH
PVC	POLYVINYL CHLORIDE
RES	RESISTOR
RTB	RADIO TERMINAL BOARD
S	STARTER COIL
SD	SERVICE DISCONNECT
SFR	SEAL FAILURE RELAY
SL	SUMP LIGHT
SPR	STANDBY POWER RECEPTACLE
SS	SELECTOR SWITCH
ST	STARTER
SV	SOLENOID VALVE
T	TRANSFORMER
TB	TERMINAL BLOCK
TDR	TIME DELAY RELAY
TGLS	TOGGLE SWITCH
TM	TIME METER
TOT	TOTAL
TS	TIMER SWITCH
TSW	TEST SWITCH
TBT	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
UPS	UNINTERRUPTIBLE POWER SUPPLY
WLS	WATER LEVEL SWITCH
WP	WEATHERPROOF

DESIGN	BY	Beatrice Bindu	CHECKED	Tech Ngov	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. L5917 POST MILE 5.1/5.2	CASTLE PEAK SANDHOUSE	LEGEND	SHEET EE-0
	DETAILS	BY	Kathl Andreasen	CHECKED						
QUANTITIES	BY	Beatrice Bindu	CHECKED	Tech Ngov	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT PROJECT NUMBER & PHASE 3597 03000007271	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF	

EA 4E8801





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

Project Name: Castle Peak Sand Storage Facility Sand Storage Building	Date: 10/18/2010
Project Address: At Castle Peak/Route 80	Total Hardscape Illuminated Area: 1420

**General Information**  
 Phase of Construction:  New Construction  Addition  Alteration

**Documentation Author's Declaration Statement**  
 • I Certify that this Certificate of Compliance documentation is accurate and complete.

Name: Beatrice Bindu	Signature: <i>Beatrice Bindu</i>
Company: CALIFORNIA DEPARTMENT OF TRANSPORTATION	Date: 10/18/2010
Address: 1801 30th Street	If applicable: CEA # CEPE #
City/State/Zip: Sacramento, CA 95816	Phone: (916) 227-8764

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

Name: Beatrice Bindu	Signature: <i>Beatrice Bindu</i>
Company: CALIFORNIA DEPARTMENT OF TRANSPORTATION	Phone: (916) 227-8764
Address: 1801 30th Street	License # E 17240
City/State/Zip: Sacramento, CA 95816	Date: 10/18/2010

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

**Outdoor Lighting Mandatory Measures**  
 Indicate location on building plans of Mandatory Measures Note Block: EE-7

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

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

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

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

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

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

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

COMPLIANCE FIXTURE/LIGHTING CONTROL SCHEDULE and FIELD INSPECTION CHECKLIST

Project Name: Castle Peak Sand Storage Facility Sand Storage Building	Date: 10/18/2010
--	------------------

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

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

Luminaire Schedule				Installed Watts						
A	B	C	D	E	F		G	H	I	
Name Or Item Tag	Luminaire Description <sup>1</sup> (i.e., lamp pole-top shoe-box 400 watt metal halide)	Cutoff Designation	Watts per Luminaire	Special Features	How wattage was determined		Number of Luminaires	Installed Watts (D x G)	Pass	Fail
					Default from NA-8	According to S 130 (d or e)				
MH2	MH2-1x100 (METAL HALIDE)	✓	110		<input checked="" type="checkbox"/>	<input type="checkbox"/>	4	440	<input type="checkbox"/>	<input type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
Enter total into OLTG-1C; Page 4 of 4; Row H; Total Installed Watts:										

1. Type of luminaire (i.e.: post top, wall pack, surface, shoe box); for non-incandescent luminaires, indicate nominal lamp wattage and lamp type (i.e.: fluorescent incandescent, HID); ballast type (i.e.: electronic or magnetic); number of lamps and number of ballast per luminaire. For incandescent luminaires the luminaire wattage listed in column D shall be the maximum relamping rated wattage on a permanent factory-installed label on the luminaire. NOT the wattage of the lamp (bulb) used, in accordance with Section 130 (d or e).  
 2. If Fail then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. Verify building plans if necessary.

**EXEMPT LUMINAIRES**  Field Inspection

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

**MANDATORY CONTROLS**  Field Inspection

#	Description	Location	#	Description	Location

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

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

**Field Inspector Notes or Discrepancies:**

DIST. 03	COUNTY Nev	ROUTE 5917	POST MILES TOTAL PROJECT	SHEET NO. 39	TOTAL SHEETS 44
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REGISTERED ELECTRICAL ENGINEER DATE 12-28-10

3-14-11 PLANS APPROVAL DATE

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**CALIFORNIA STATE FIRE MARSHAL APPROVED**

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

Reviewed by: *Robert J. ...*

Approval date: 12/16/10



DESIGN BY <i>Beatrice Bindu</i>	CHECKED <i>Tech Ngov</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. L5917	CASTLE PEAK SANDHOUSE TITLE 24 COMPLIANCE NO. 3	SHEET EE-3	
DETAILS BY <i>Kathi Andreasen</i>	CHECKED <i>Beatrice Bindu</i>		PROJECT NUMBER & PHASE 03000007271	POST MILE 5.175.2		REVISION DATES (PRELIMINARY STAGE ONLY)	OF
QUANTITIES BY <i>Beatrice Bindu</i>	CHECKED <i>Tech Ngov</i>		UNIT 3597	DISREGARD PRINTS BEARING EARLIER REVISION DATES		10/26/10 12/28/10 12/28/10	

TAEMWW Imperial Rev. 7/10 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 EA 4E8801

### CERTIFICATE OF COMPLIANCE (Page 3 of 4) OLTG-1C

Project Name: **Castle Peak Sand Storage Facility Sand Storage Building** Date: **10/18/2010**

#### A. OUTDOOR LIGHTING ZONE

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

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

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

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

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

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

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

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

#### C. ACCEPTANCE FORMS

Required Acceptance Tests

##### Designer:

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

##### Enforcement Agency:

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

Certificate of Acceptance

Luminaires Controlled				OLTG-2A <sup>1</sup>
Equipment Requiring Testing	Description	Number of Like Controls	Location	Outdoor Lighting Acceptance Tests
OLCS	Photocell and Timer Switch		Sand Storage Building	

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

2008 Nonresidential Compliance Forms

August 2009

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

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

Project Name: **Castle Peak Sand Storage Facility Sand Storage Building** Date: **10/18/2010**

#### ALLOWED AND INSTALLED OUTDOOR LIGHTING POWER

		Lighting Wattage Power Allowance
A	Lighting power allowance for general hardscape (from OLTG-2C Page 1 of 3)	1154
B	Specific application lighting wattage allowance per unit length (from OLTG-2C Page 1 of 3)	
C	Specific application wattage allowance for ornamental lighting (from OLTG-2C Page 1 of 3)	
D	Specific application wattage allowance per application (from OLTG-2C Page 2 of 3)	
E	Specific application lighting wattage allowance per area (from OLTG-2C Page 2 of 3)	
F	Additional lighting power allowance for ordinance requirements (from OLTG-2C Page 3 of 3)	
G	Total Allowed Wattage = Sum of rows A through F:	1154
H	Total installed Watts (from Luminaire Schedule, (from OLTG-1C (Page 2 of 4)	440

Complies if installed Wattage in row H is less than or equal to the Total Installed Wattage in row G  Yes  No

2008 Nonresidential Compliance Forms

August 2009

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Neu	5917		40	44

*Beatrice Bindu*  
 REGISTERED ELECTRICAL ENGINEER 12-28-10 DATE  
 3-14-11  
 PLANS APPROVAL DATE

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**CALIFORNIA STATE FIRE MARSHAL APPROVED**  
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.  
 Reviewed by: *Edward J. ...*  
 Approval date: 12/16/10

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

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO.	L5917
POST MILE	5.1/5.2

**CASTLE PEAK SANDHOUSE**  
 TITLE 24 COMPLIANCE NO. 4

SHEET **EE-4** OF

General Notes:

- A. For demolition work, see Architectural sheets.
- B. Coordinate with Utility Company for meter removal.
- C. Coordinate with Utility Company to de-energize the service.

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 Reviewed by: *[Signature]*  
 Approval date: 12/16/10

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Nev	5917		41	44

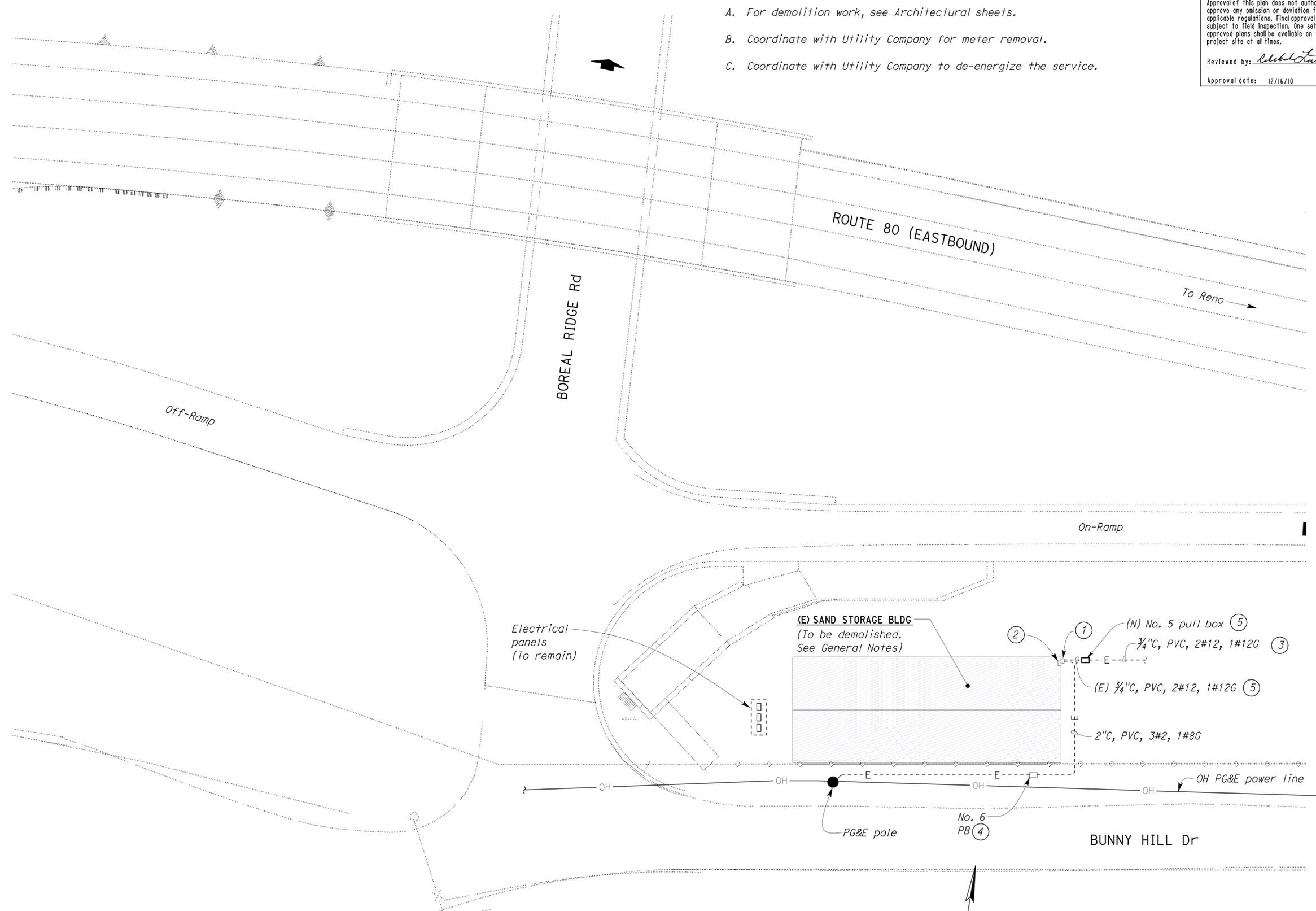
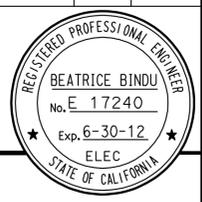
  

<i>Beatrice Bindu</i>	12-28-10
REGISTERED ELECTRICAL ENGINEER	DATE

3-14-11
PLANS APPROVAL DATE

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- Notes:
- ① Remove service metering equipment. Coordinate with electrical utility company for meter removal.
  - ② Remove electrical panelboard and associated conduits and conductors.
  - ③ To existing Weather Station.
  - ④ De-energize existing service. Intercept existing 2" C, 3#2, 1#8G. Install new pull box. Pull back conductors, coil the conductors, and store inside pull box for connecting to the new service disconnect. See sheet EE-6. Abandon underground conduit.
  - ⑤ Disconnect conductors from existing service metering equipment. Intercept conduit, install new No. 5 pull box. Pull back conductors to connect to new panels. See sheet EE-6.

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

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

DESIGN SUPERVISOR <i>[Signature]</i> DESIGN ENGINEER <i>[Signature]</i>	DESIGN BY	Beatrice Bindu	CHECKED	Tech Ngov	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	L5917	<b>CASTLE PEAK SANDHOUSE</b> EXISTING PARTIAL SITE PLAN	SHEET	OF
	DETAILS BY	Kathi Andreasen	CHECKED	Beatrice Bindu			POST MILE	5.1/5.2		EE-5	
QUANTITIES BY	Beatrice Bindu	CHECKED	Tech Ngov	UNIT PROJECT NUMBER & PHASE			3597 03000007271	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY) 9/24/10 10/7/10 10/26/10 12/28/10 12/28/10	

TAEMWW Imperial Rev. 7/10 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 UNIT PROJECT NUMBER & PHASE 3597 03000007271 EA 4E8801

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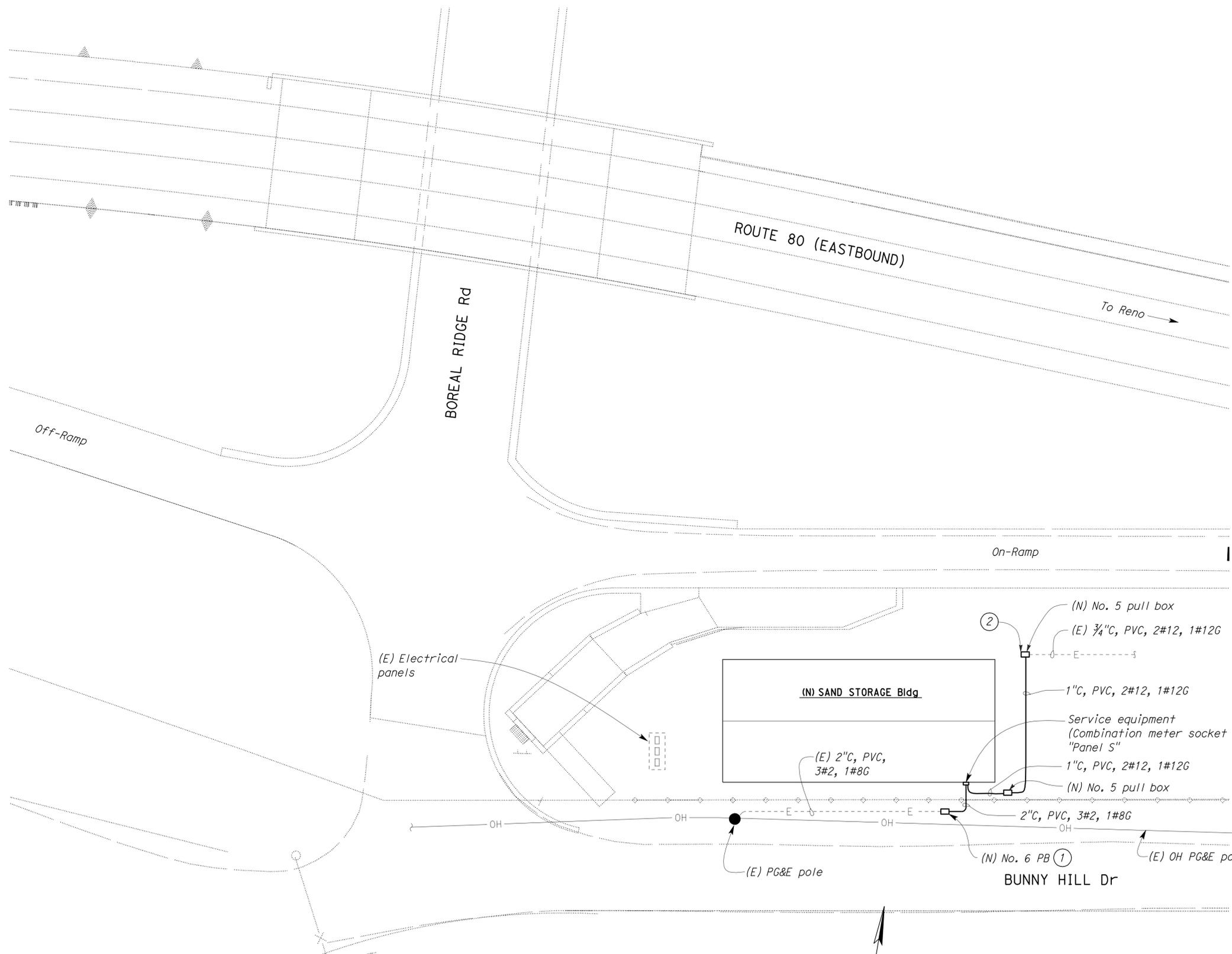
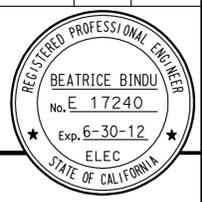
**CALIFORNIA STATE FIRE MARSHAL APPROVED**  
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 Reviewed by: *[Signature]*  
 Approval date: 12/16/10

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Nev	5917		42	44

Reviewed by: *[Signature]* 12-28-10  
 REGISTERED ELECTRICAL ENGINEER DATE

3-14-11  
 PLANS APPROVAL DATE

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- Notes:
- Install new conduit. Pull the existing conductors to connect to new service disconnect at new service equipment. Cut and remove additional length of conductors.
  - Splice new 2#12 to existing 2#12, and new 1#12G, to existing 1#12G.

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

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN BY <i>Beatrice Bindu</i> CHECKED <i>Tech Ngov</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. L5917	CASTLE PEAK SANDHOUSE	SHEET EE-6			
			POST MILE 5.1/5.2			MODIFIED PARTIAL SITE PLAN		
DETAILS BY <i>Kathi Andreasen</i> CHECKED <i>Beatrice Bindu</i>	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3597 03000007271 EA 4E8801	REVISION DATES (PRELIMINARY STAGE ONLY)			SHEET OF		
QUANTITIES BY <i>Beatrice Bindu</i> CHECKED <i>Tech Ngov</i>			<table border="1"> <tr> <td>9/24/10</td> <td>10/7/10</td> <td>10/28/10</td> <td>12/28/10</td> <td>12/28/10</td> </tr> </table>				9/24/10	10/7/10
9/24/10	10/7/10	10/28/10	12/28/10	12/28/10				

TAEMWW Imperial Rev. 7/10

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

24-MAR-2011 11:35 ee\_06.dgn

**GENERAL NOTES:**

- A. All conduits inside Sand Storage Building shall be non-metallic, Schedule 80, rigid PVC conduit with equipment grounding conductors, unless otherwise noted.
- B. All junction boxes and outlet boxes inside Sand Storage Building shall be weatherproof type, non-metallic (PVC) boxes.
- C. For exact location of exterior lighting fixtures, see Architectural plans.
- D. Homeruns to panelboards shall be installed as shown on the plans. Homeruns shall not be combined unless approved by the Engineer.
- E. Separate grounded (neutral) conductor shall be used for each 120 V circuit.
- F. Mount Timer Switches and pushbutton 4 feet above the floor.

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 Reviewed by: *[Signature]*  
 Approval date: 12/16/10

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Neu	5917		43	44

Reviewed by: *[Signature]* 12-28-10  
 REGISTERED ELECTRICAL ENGINEER DATE

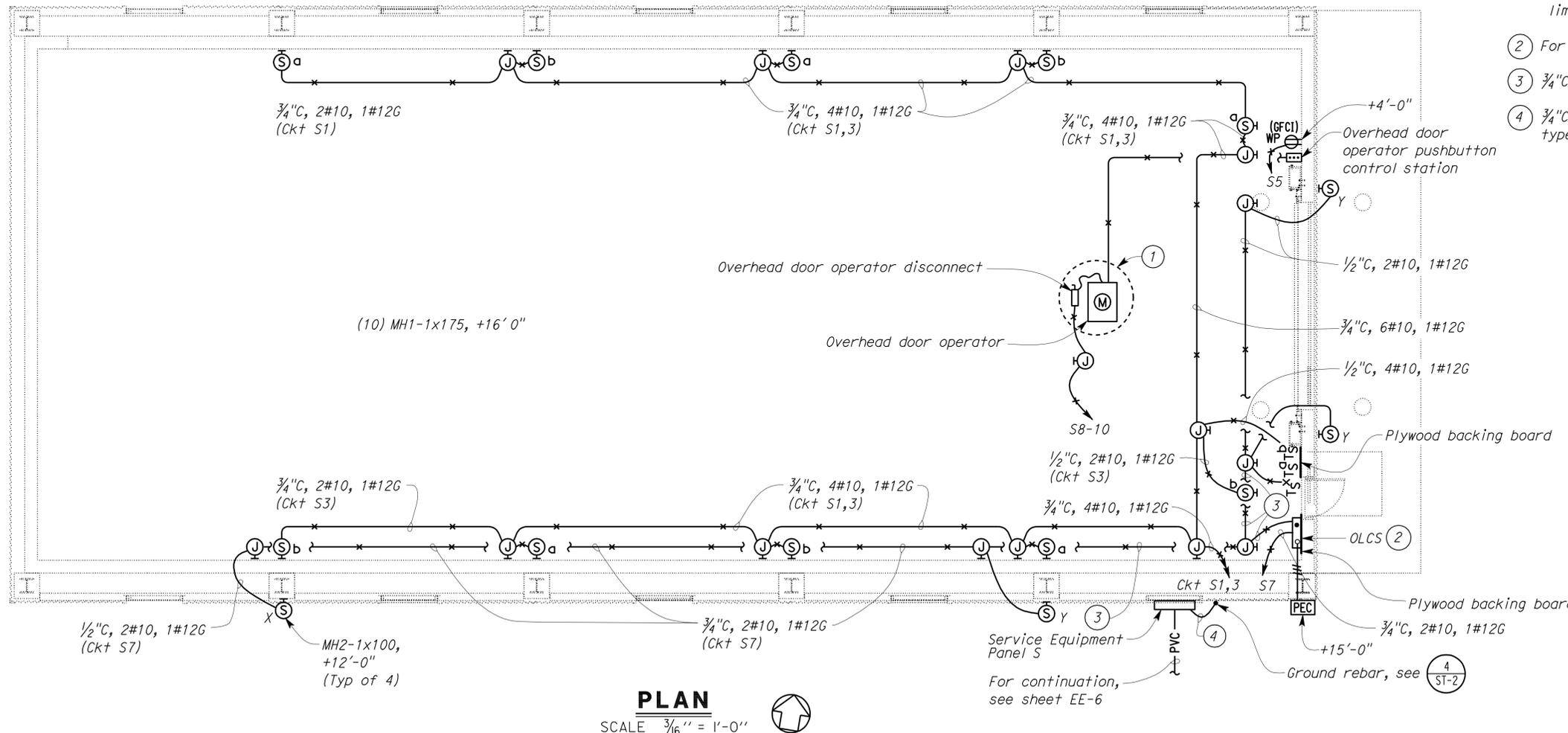
3-14-11  
 PLANS APPROVAL DATE

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 Location for overhead door operator shown is arbitrary only. Exact location depends upon unit furnished. Install the overhead door operator disconnect adjacent to the overhead operator. Install the following conduits for the overhead door operator system:  
 - 1/2" C, control conductors as required, in between the overhead door operator pushbutton control station and the overhead door operator.  
 - 1/2" C, control conductors as required, in between the overhead door operator and reversing edge limit switch. Reversing edge limit switch is not shown.
- 2 For wiring diagram, see 1 EE-8.
- 3 3/4" C, 4#10, 1#12G.
- 4 3/4" C, 1#6G, to ground rebar, with grounding bushing and swivel type heavy duty ground clamp.



THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

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

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

BRIDGE NO.	L5917	CASTLE PEAK SANDHOUSE	SHEET EE-7
POST MILE	5.175.2		
POWER AND LIGHTING PLAN		SHEET OF	

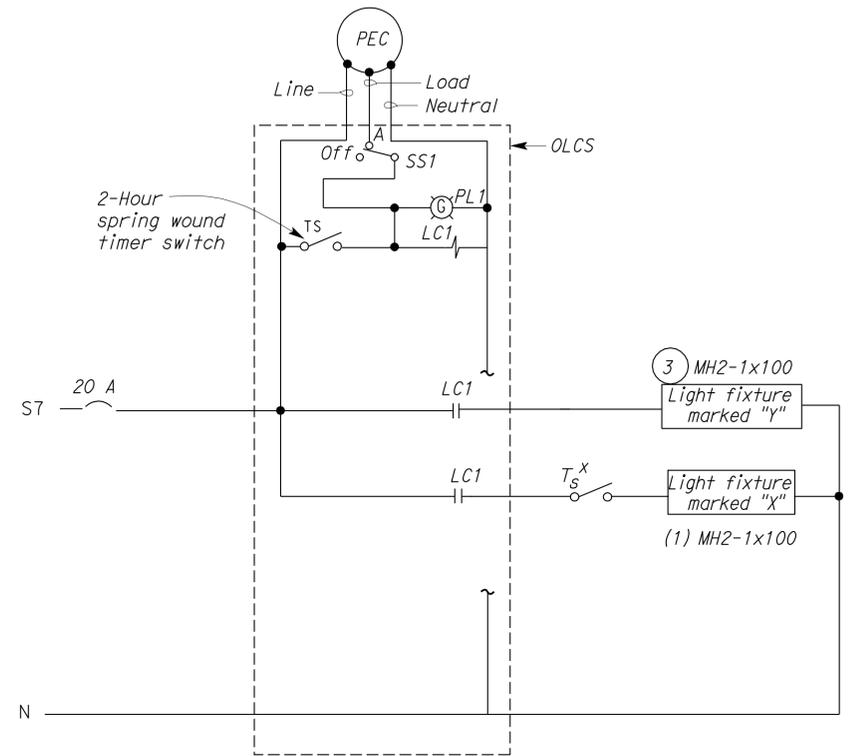
**CALIFORNIA STATE FIRE MARSHAL APPROVED**  
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.  
 Reviewed by: *Robert Lutz*  
 Approval date: 12/16/10

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Nev	5917		44	44

REGISTERED ELECTRICAL ENGINEER DATE 12-28-10

3-14-11 PLANS APPROVAL DATE

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

MAIN: 100-AMPERE CIRCUIT BREAKER  
 VOLTS: 120/240 V, 1-PHASE, 3-WIRE  
 FEEDER SIZE: 3#2, 1#8G  
 LOCATION: SAND STORAGE BUILDING

DESCRIPTION	AMPERES		BRK	CKT	A	B	CKT	BRK	AMPERES		DESCRIPTION
	A	B							A	B	
LIGHTS, INTERIOR (TIMER SWITCH a)	8		20/1	1			2	20/1	-		SPARE
LIGHTS, INTERIOR (TIMER SWITCH b)		8	20/1	3			4	20/2			SPARE
RECEPTACLE, INTERIOR	2		20/1	5			6	20/2			SPARE
LIGHT EXTERIOR		5	20/1	7			8	20/2		7	OVERHEAD DOOR OPERATOR
WEATHER STATION	2		20/1	9			10	20/1	7		SPARE
SPARE			20/1	11			12	20/1			SPARE
SPARE			-	13			14	-			SPARE
SPARE			-	15			16	-			SPARE
SPARE			-	17			18	-			SPARE
SPARE			-	19			20	-			SPARE

A	B	TOTAL CONNECTED LOAD (AMPERES PER PHASE)
19	20	

**PANEL SCHEDULE**

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

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO.	L5917
POST MILE	5.1/5.2

**CASTLE PEAK SANDHOUSE**  
 PANEL SCHEDULE AND DETAILS

SHEET **EE-8** OF