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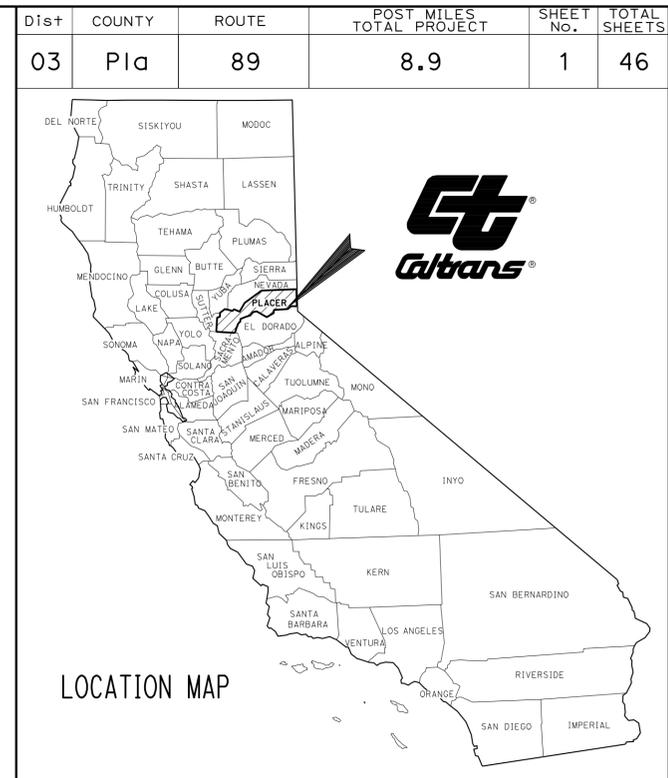
THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

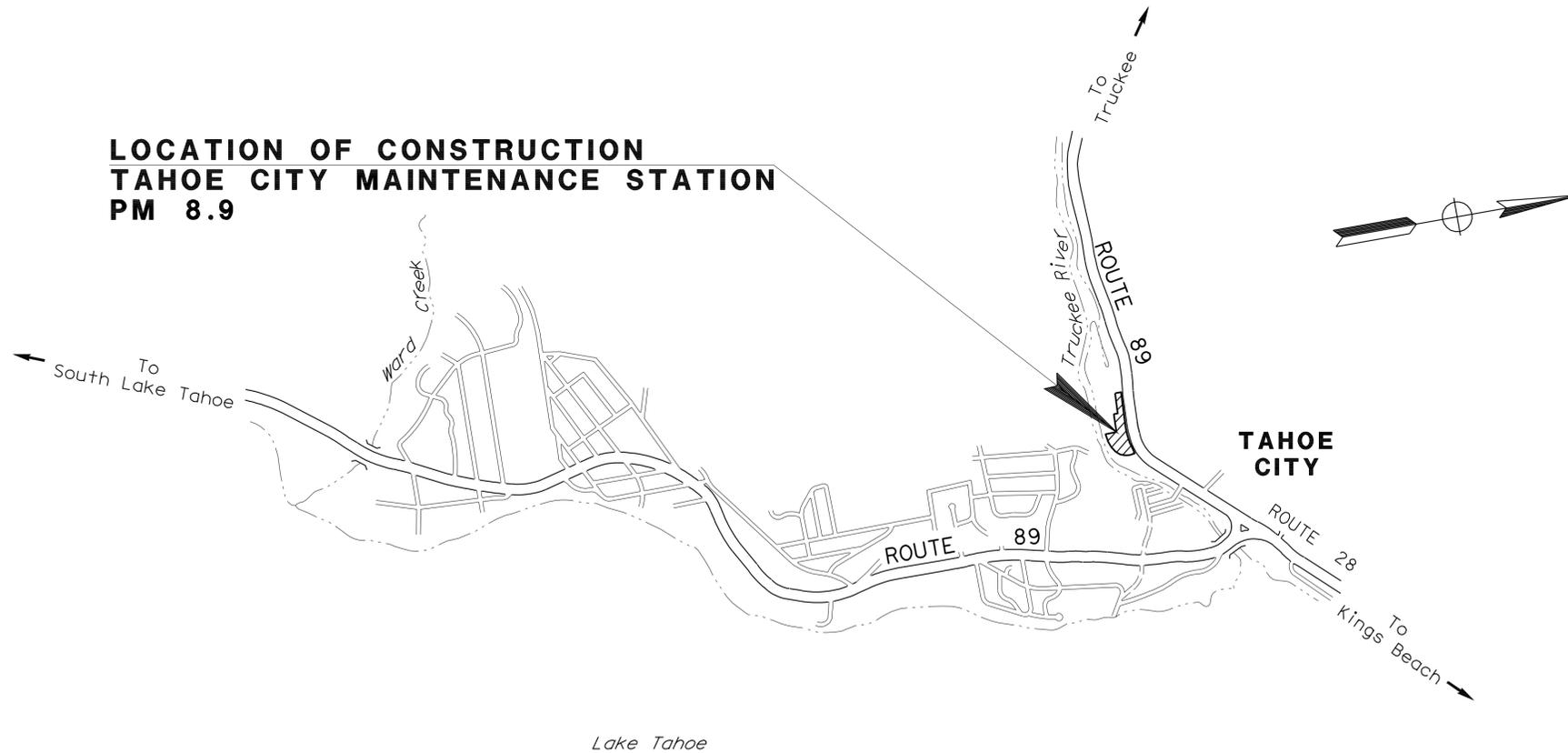
PROJECT PLANS FOR BUILDING CONSTRUCTION ON  
STATE HIGHWAY

IN PLACER COUNTY AT  
THE TAHOE CITY MAINTENANCE STATION

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



LOCATION OF CONSTRUCTION  
TAHOE CITY MAINTENANCE STATION  
PM 8.9



NO SCALE

PROJECT MANAGER	NAJED DAKAK
DESIGN ENGINEER	FERMIN BARRIGA

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

*Horacio Paras Jr.* 12-16-11  
PROJECT ENGINEER DATE  
REGISTERED CIVIL ENGINEER

February 21, 2012  
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.

CONTRACT No.	03-2F2804
PROJECT ID	0300020604



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pl	88	8.9	3	46

*Horacio Jr* 12-16-11  
 REGISTERED CIVIL ENGINEER DATE

2-21-12  
 PLANS APPROVAL DATE

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 OR AGENTS SHALL NOT BE RESPONSIBLE FOR  
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**SITE GRADING QUANTITIES**

MINOR HOT MIX ASPHALT	CLASS 2 AGGREGATE BASE (CY)	COLD PLANE AC PAVEMENT (0.15' Max)
TON	CY	SQYD
42.7	76.4	59.8

**TEMPORARY DRAINAGE INLET PROTECTION**

LOCATION	QUANTITY (EACH)
NORTH WEST CORNER OF YARD	2
NORTH EAST CORNER OF YARD	1
CENTER OF YARD	1
SOUTH END OF YARD	1
TOTAL	5

**TEMPORARY COVER**

LOCATION	QUANTITY (SQYD)
BUILDING SITE	130
TOTAL	130

**SUMMARY OF QUANTITIES**

**Q-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** DIVISION OF ENGINEERING  
 FUNCTIONAL SUPERVISOR: FERMIN BARRIGA  
 CALCULATED/DESIGNED BY: FERMIN BARRIGA  
 CHECKED BY: FERMIN BARRIGA  
 REVISED BY: FERMIN BARRIGA  
 DATE REVISED:

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Pla	89	8.9	4	46

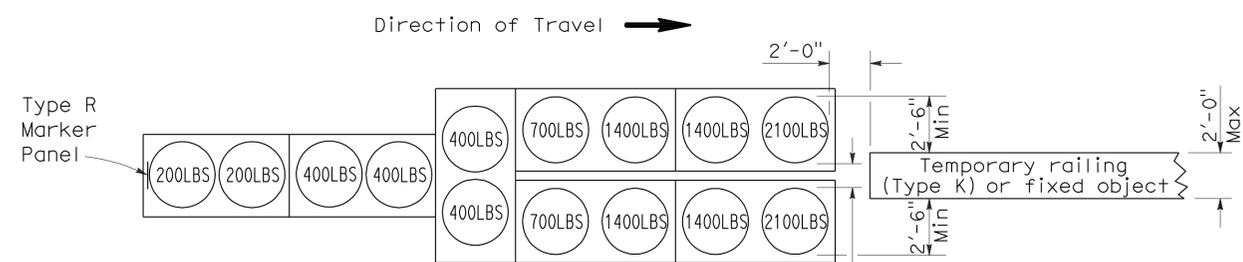
*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

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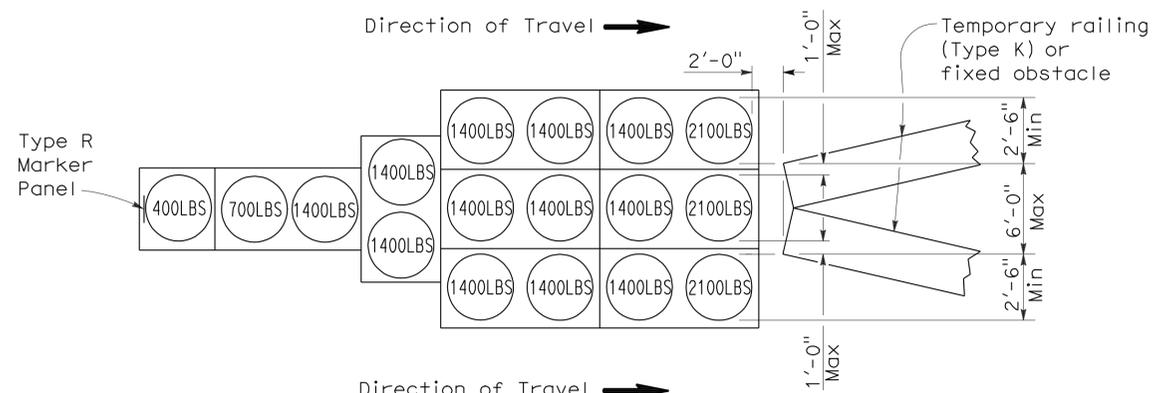
REGISTERED PROFESSIONAL ENGINEER  
Randell D. Hiatt  
No. C50200  
Exp. 6-30-09  
CIVIL  
STATE OF CALIFORNIA

To accompany plans dated 2-21-12



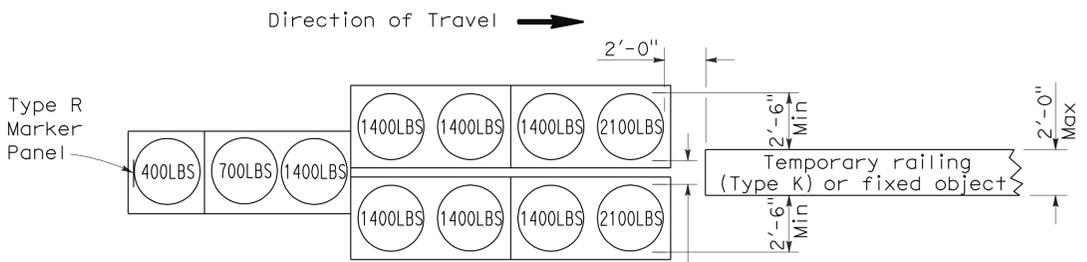
**ARRAY 'TU14'**

Approach speed 45 mph or more



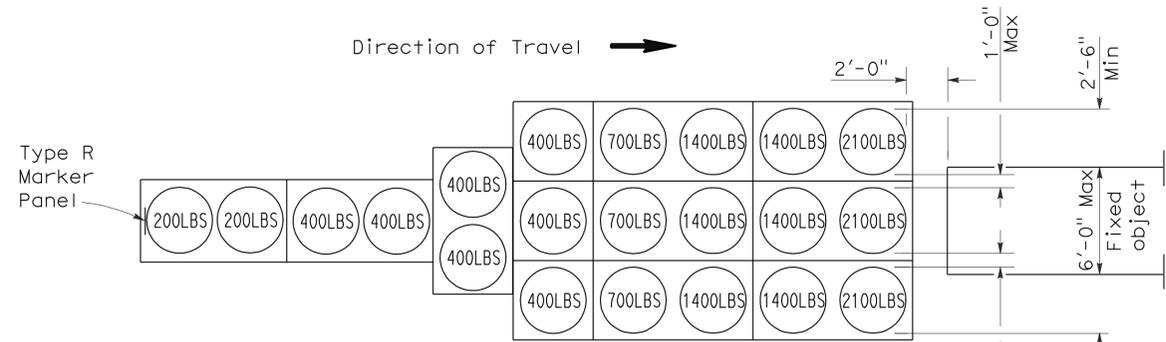
**ARRAY 'TU17'**

Approach speed less than 45 mph



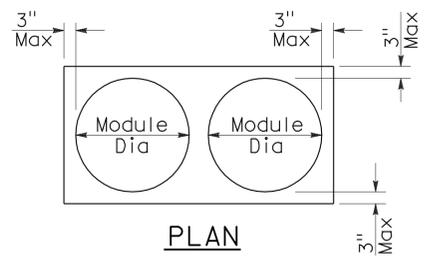
**ARRAY 'TU11'**

Approach speed less than 45 mph

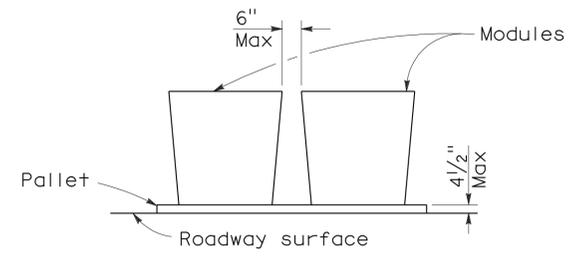


**ARRAY 'TU21'**

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

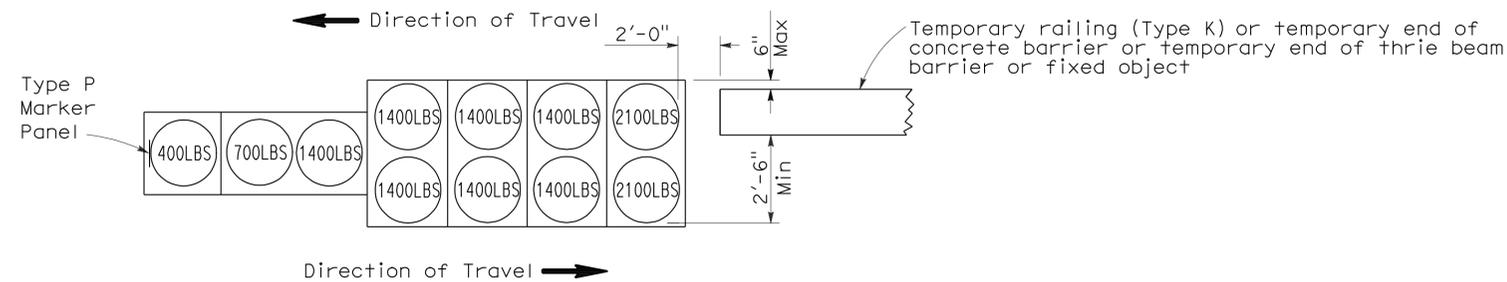
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Pla	89	8.9	5	46

*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

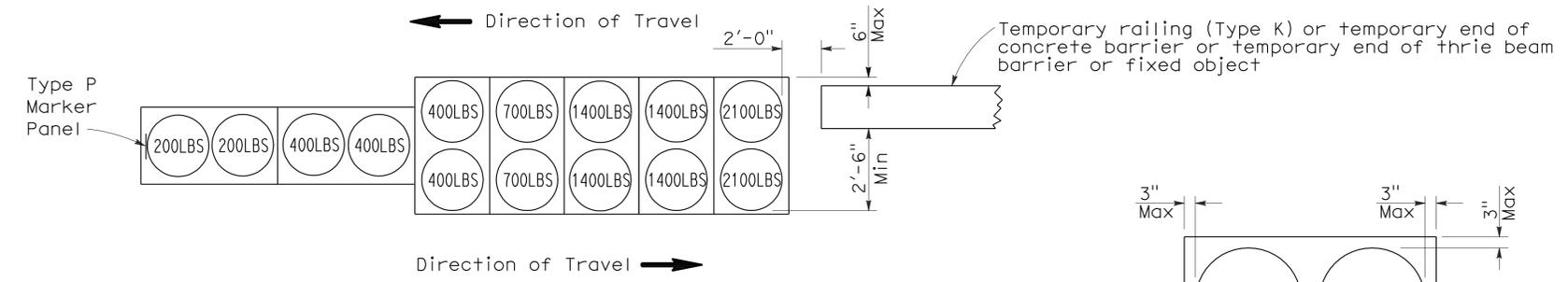
*The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.*

To accompany plans dated 2-21-12



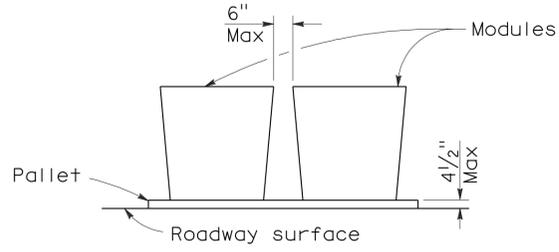
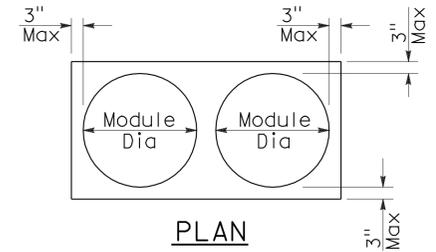
**ARRAY 'TB11'**

Approach speed less than 45 mph



**ARRAY 'TB14'**

Approach speed 45 mph or more



**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

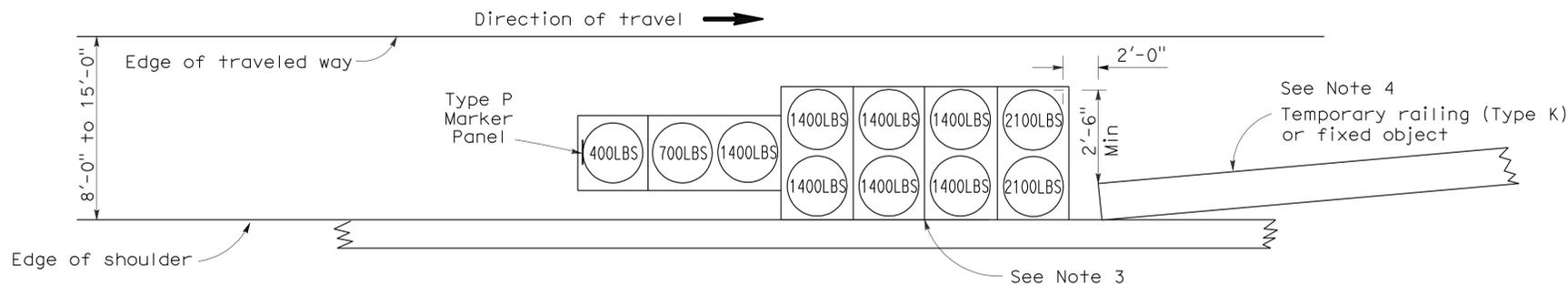
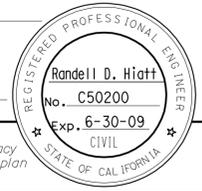
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Pla	89	8.9	6	46

*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

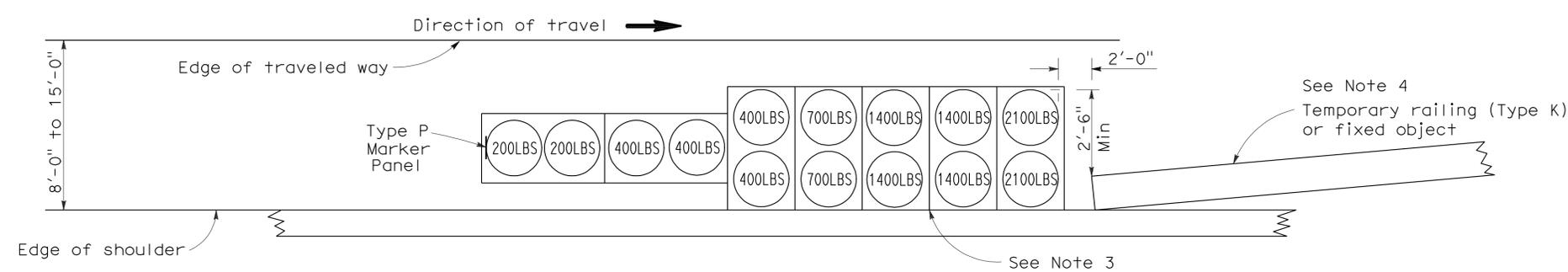
June 6, 2008  
PLANS APPROVAL DATE

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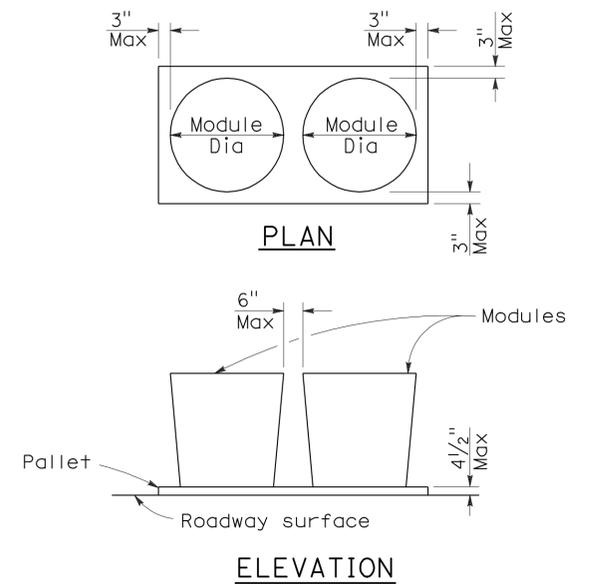
To accompany plans dated 2-21-12



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



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



**CRASH CUSHION PALLET DETAIL**  
See Note 11

**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

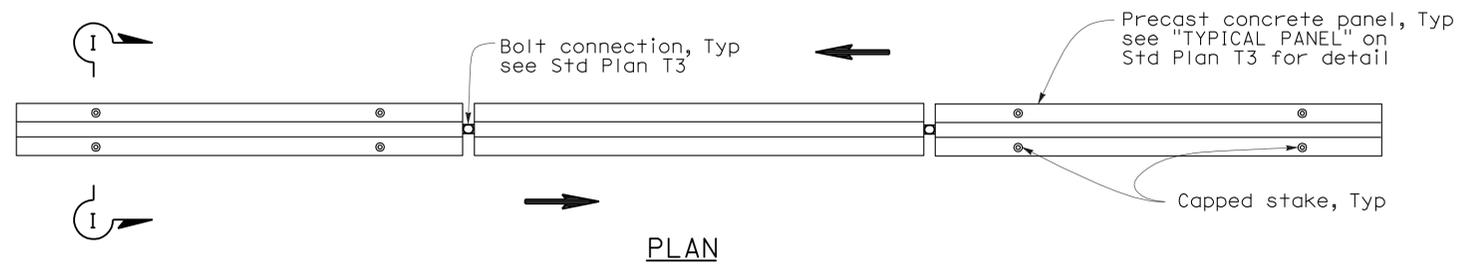
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	89	8.9	7	46

*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

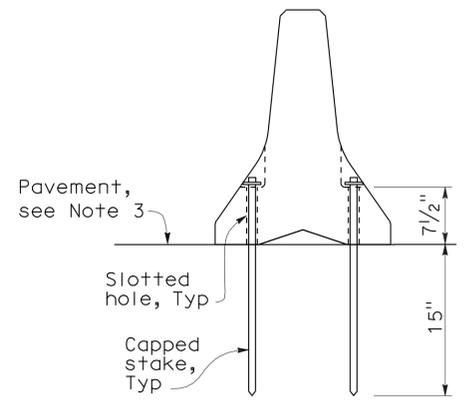
May 20, 2011  
PLANS APPROVAL DATE

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To accompany plans dated 2-21-12



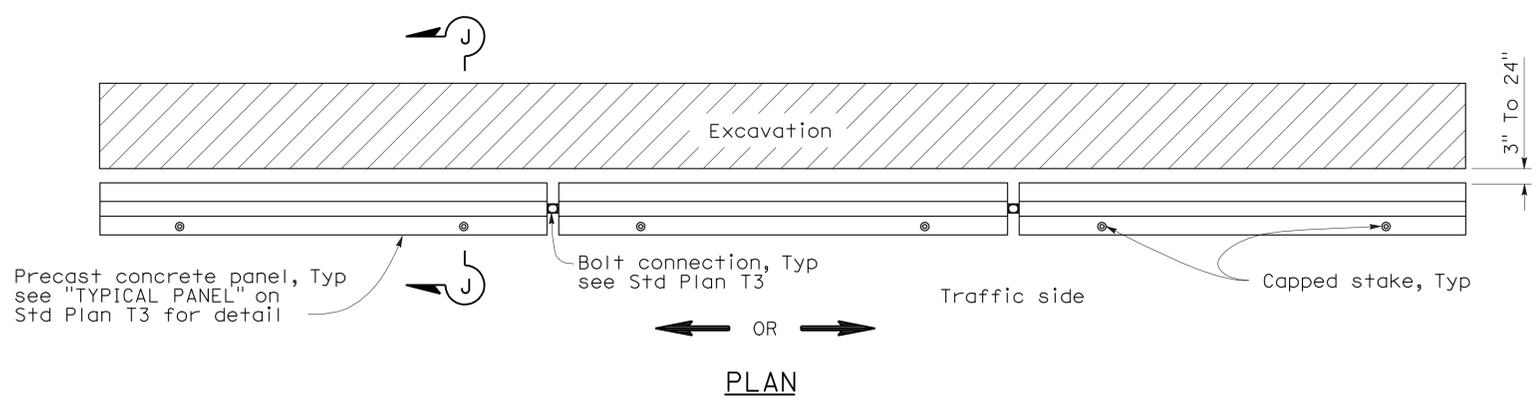
**RAILING STAKING CONFIGURATION FOR TWO-WAY TRAFFIC**  
See Note 1



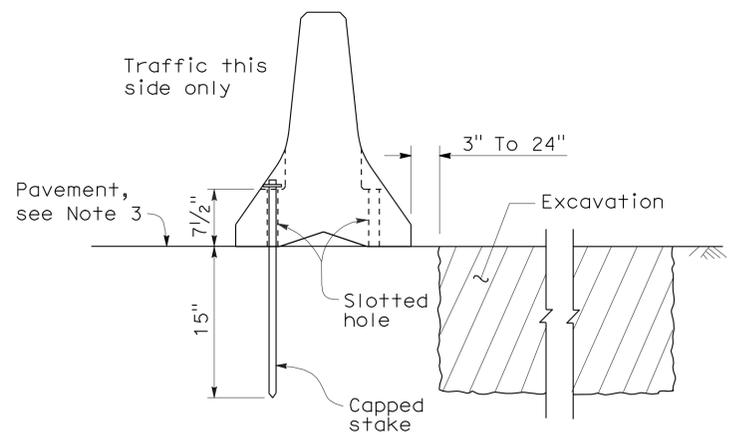
**SECTION I-I**

**NOTES:**

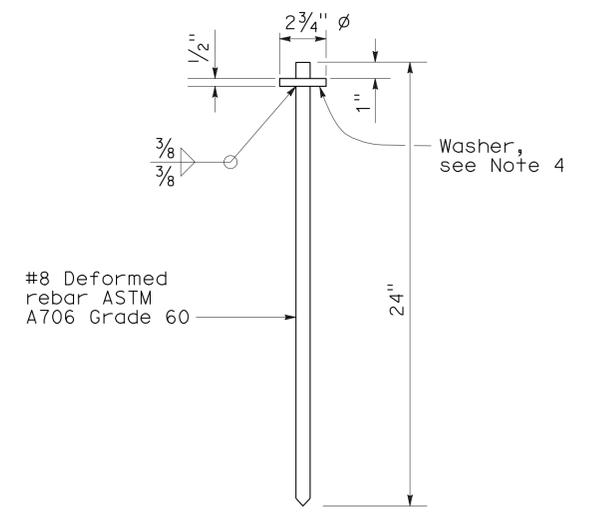
1. Where Type K Temporary Railing is placed as a temporary or long term barrier in two-way traffic on highways with less than 24" from the edge of traveled way, use four capped stakes per every other panel with end panels staked.
2. Where Type K Temporary Railing is placed 3" to 24" from the edge of an excavation on highways, use two capped stakes per panel along the traffic side.
3. Staked Type K Temporary Railing must be supported by at least 4" thick concrete, hot mix asphalt or existing asphalt concrete pavement.
4. The minimum yield strength for the washer must be 60,000 psi.
5. Direction of adjacent traffic indicated by  $\Rightarrow$ .



**RAILING STAKING CONFIGURATION ADJACENT TO AN EXCAVATION**  
See Note 2



**SECTION J-J**



**CAPPED STAKE DETAIL**

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**TEMPORARY RAILING  
(TYPE K)**  
NO SCALE

NSP T3A DATED MAY 20, 2011 SUPPLEMENTS  
THE STANDARD PLANS BOOK DATED MAY 2006.

**2006 NEW STANDARD PLAN NSP T3A**

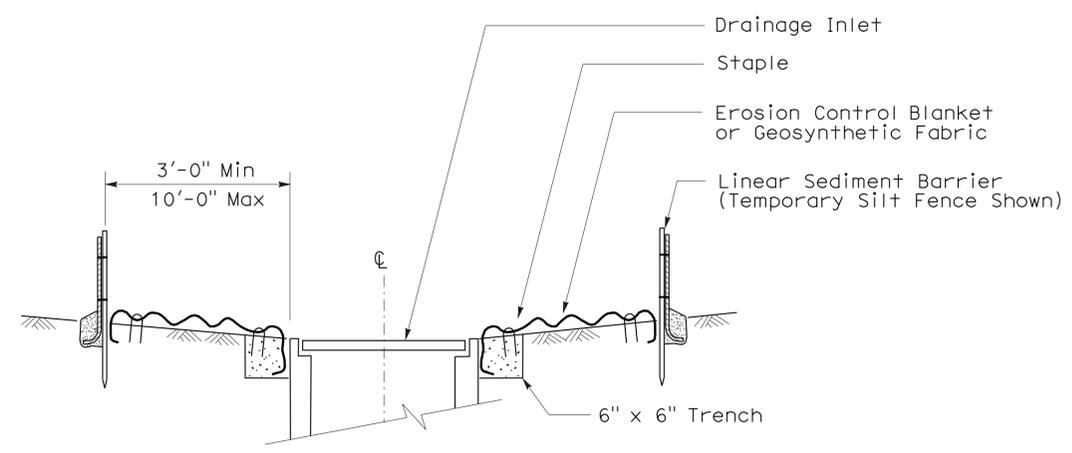
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Pla	89	8.9	8	46

Robert B. Schott  
 LICENSED LANDSCAPE ARCHITECT  
 August 15, 2008  
 PLANS Approval DATE  
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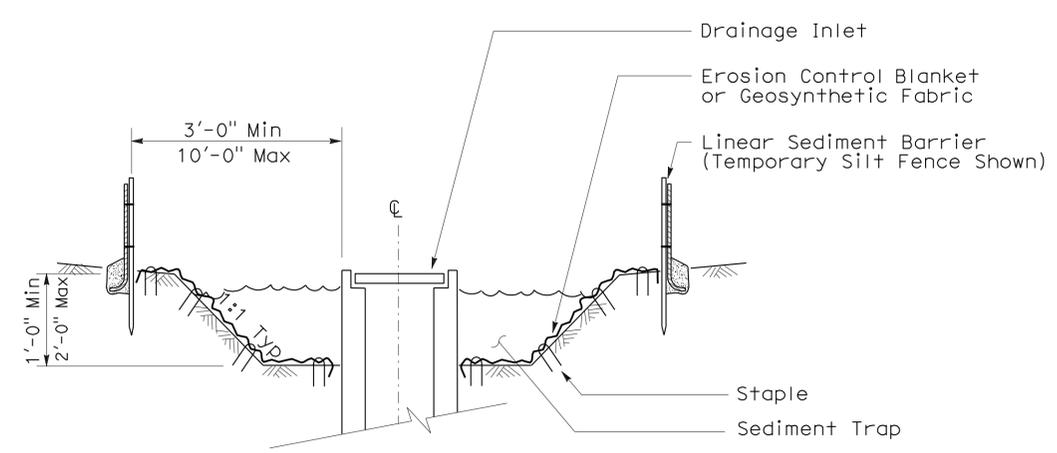


To accompany plans dated 2-21-12

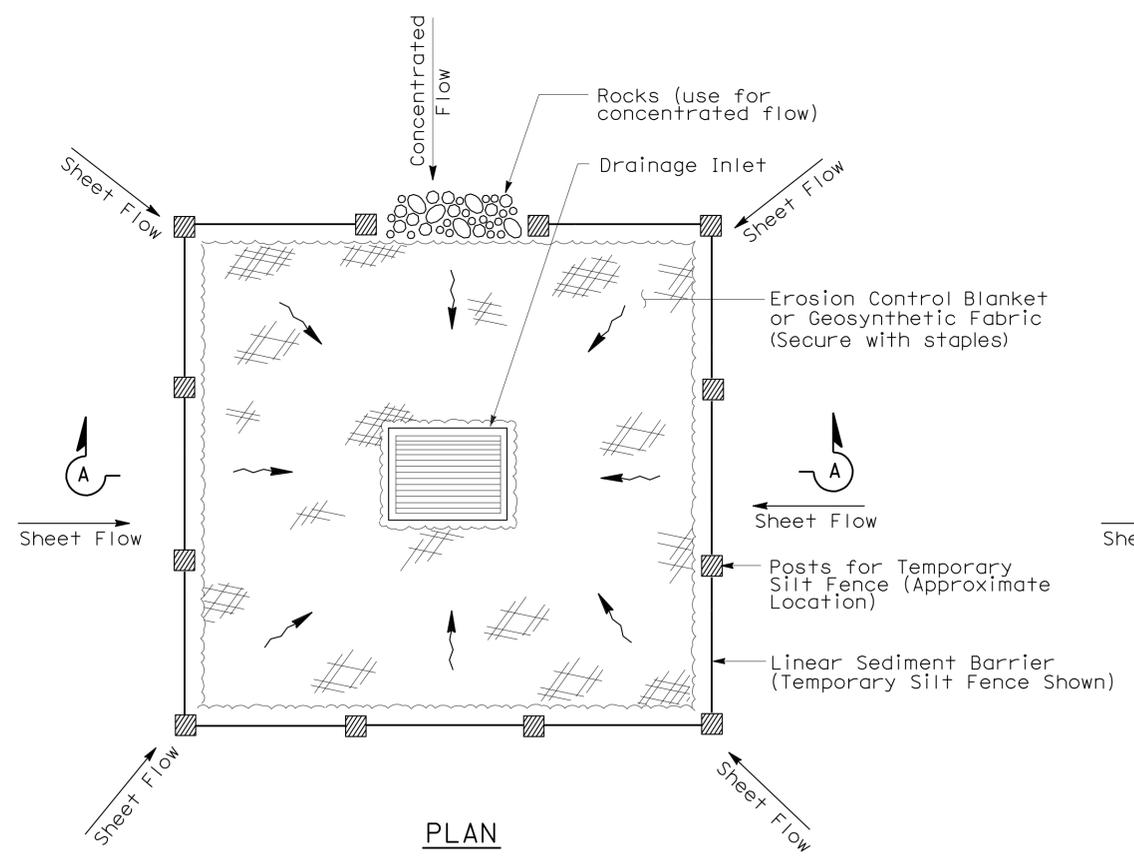
- NOTES:**
1. See Standard Plan T51 for Temporary Silt Fence.
  2. Dimensions may vary to fit field conditions.



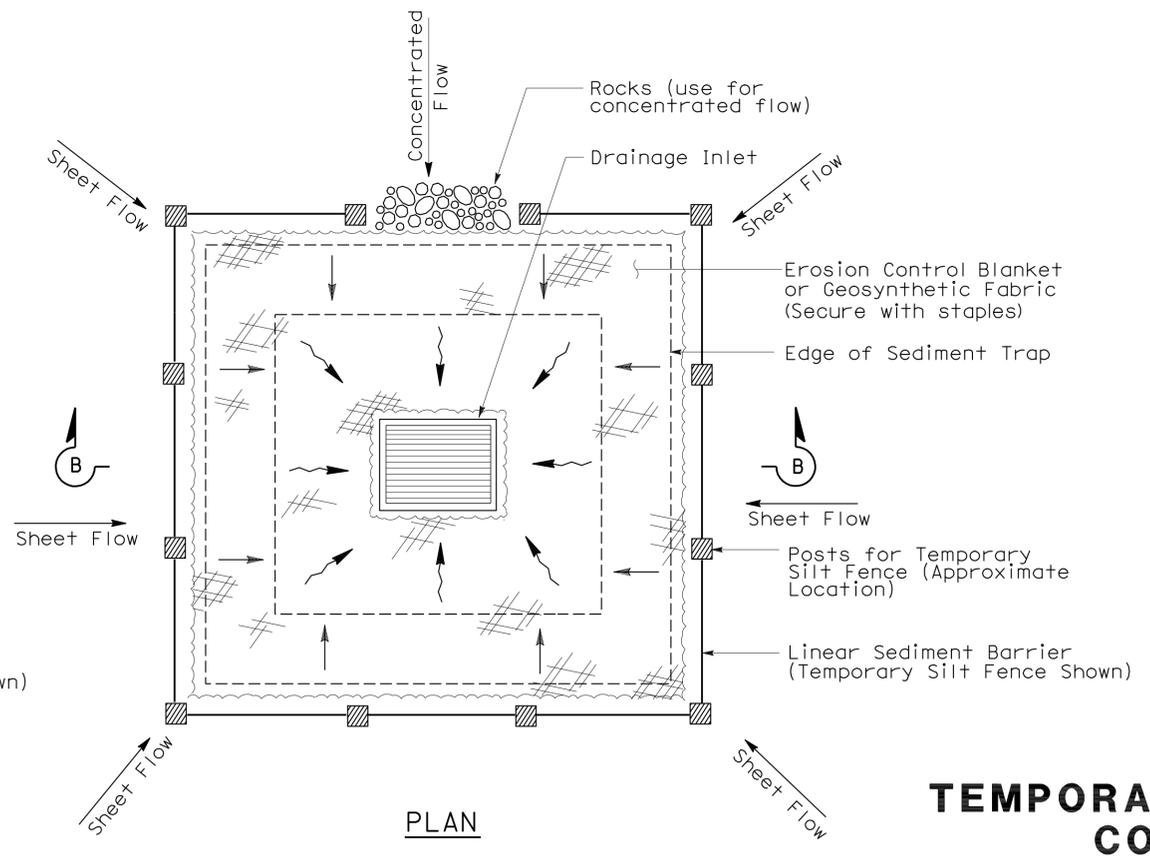
SECTION A-A



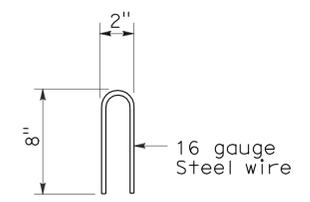
SECTION B-B



TEMPORARY DRAINAGE INLET PROTECTION (TYPE 1)



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

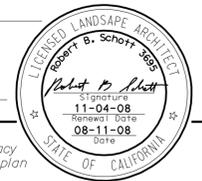


STAPLE DETAIL

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

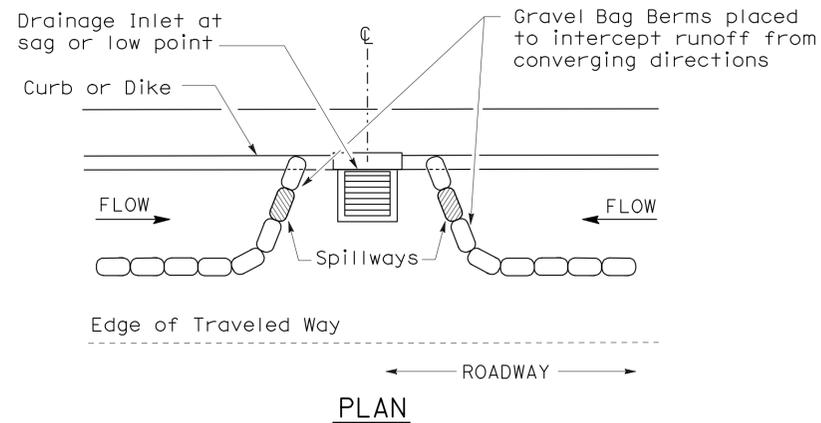


To accompany plans dated 2-21-12

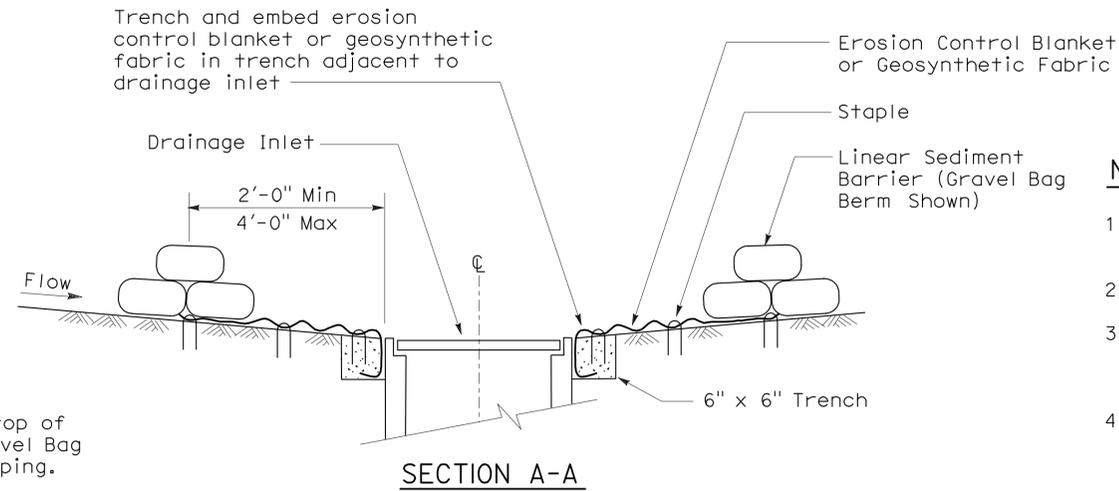
### GRAVEL BAG BERM (TYPE 3A) SPACING TABLE

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



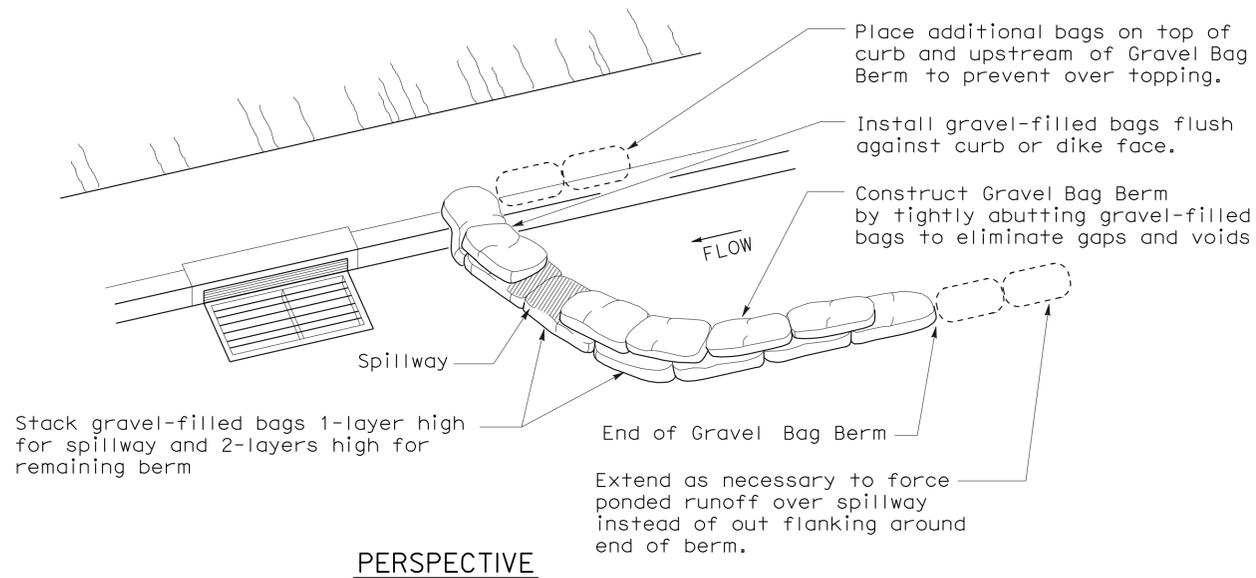
**CONFIGURATION FOR SAG POINT INLET (GRAVEL BAG BERM)**



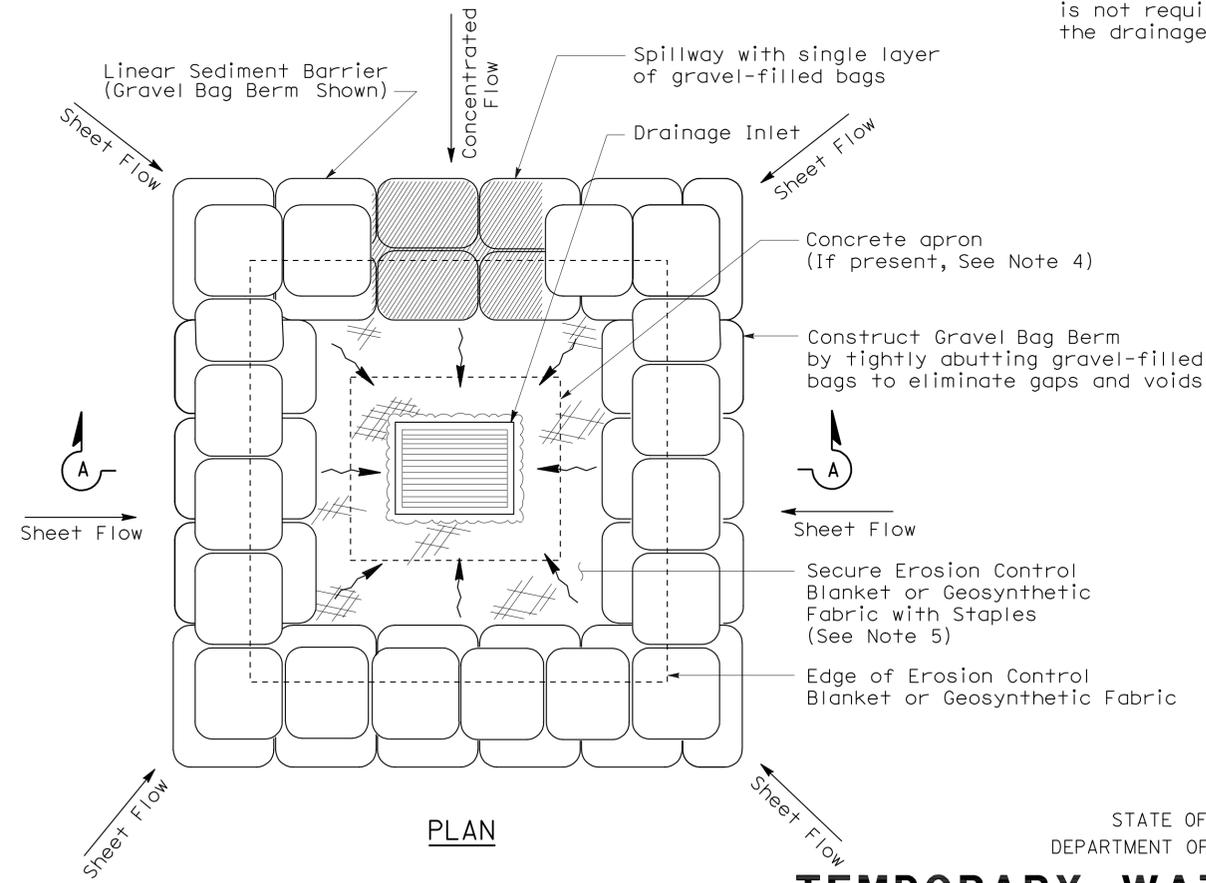
**SECTION A-A**

**NOTES:**

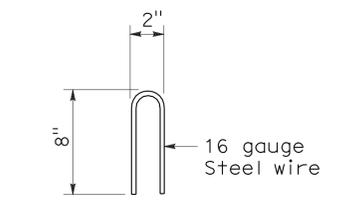
1. Place safety cones adjacent to drainage inlet protection.
2. Dimensions may vary to fit field conditions.
3. Install a minimum of 3 gravel bag berms upstream of each drainage inlet to be protected.
4. Position erosion control blanket or geosynthetic fabric at edge of concrete apron and secure in trench.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



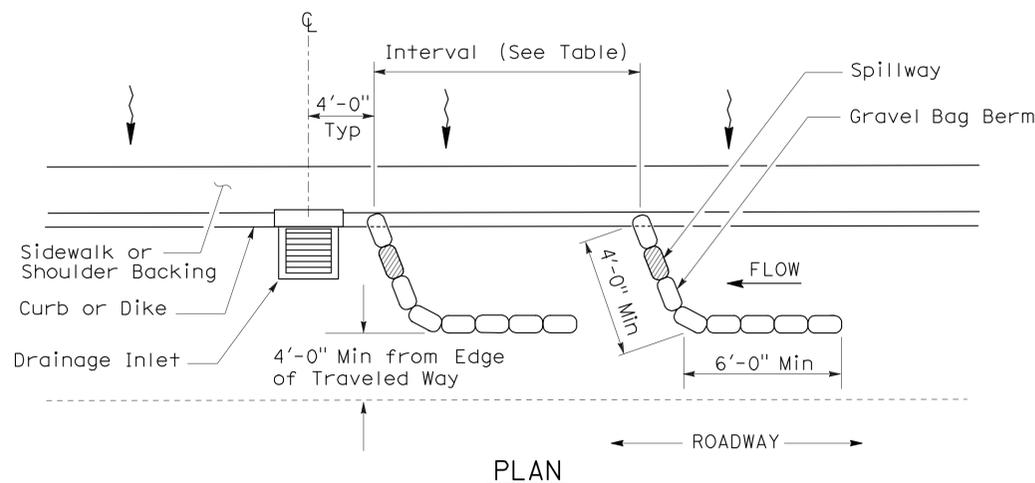
**PERSPECTIVE**



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



**STAPLE DETAIL**



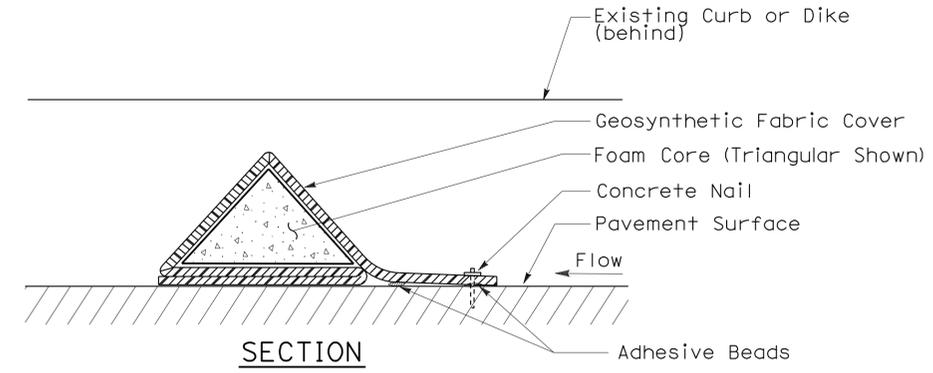
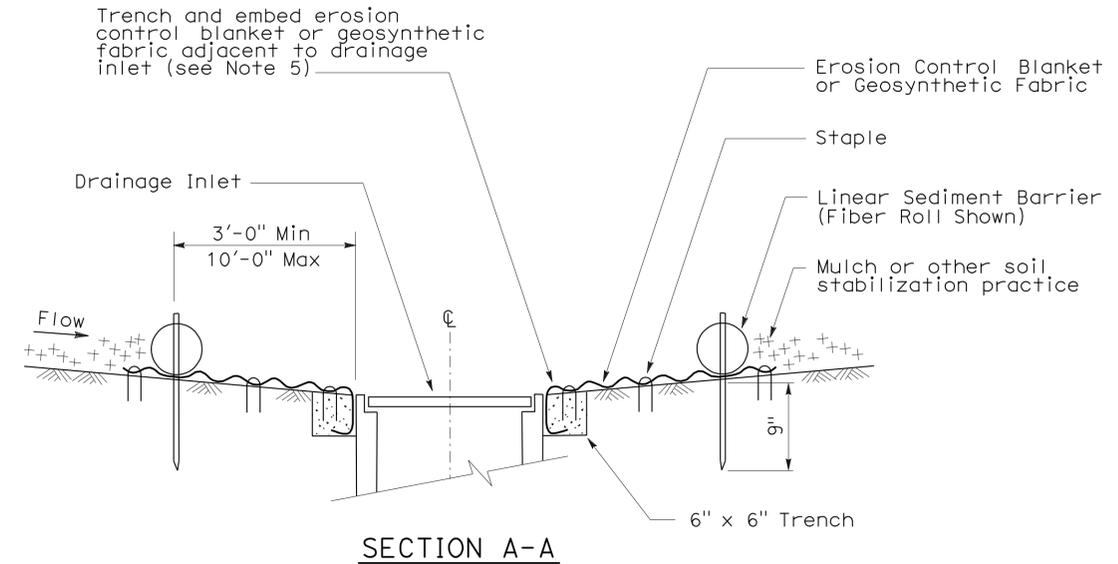
**TEMPORARY DRAINAGE INLET PROTECTION (TYPE 3A) (GRAVEL BAG BERM)**

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

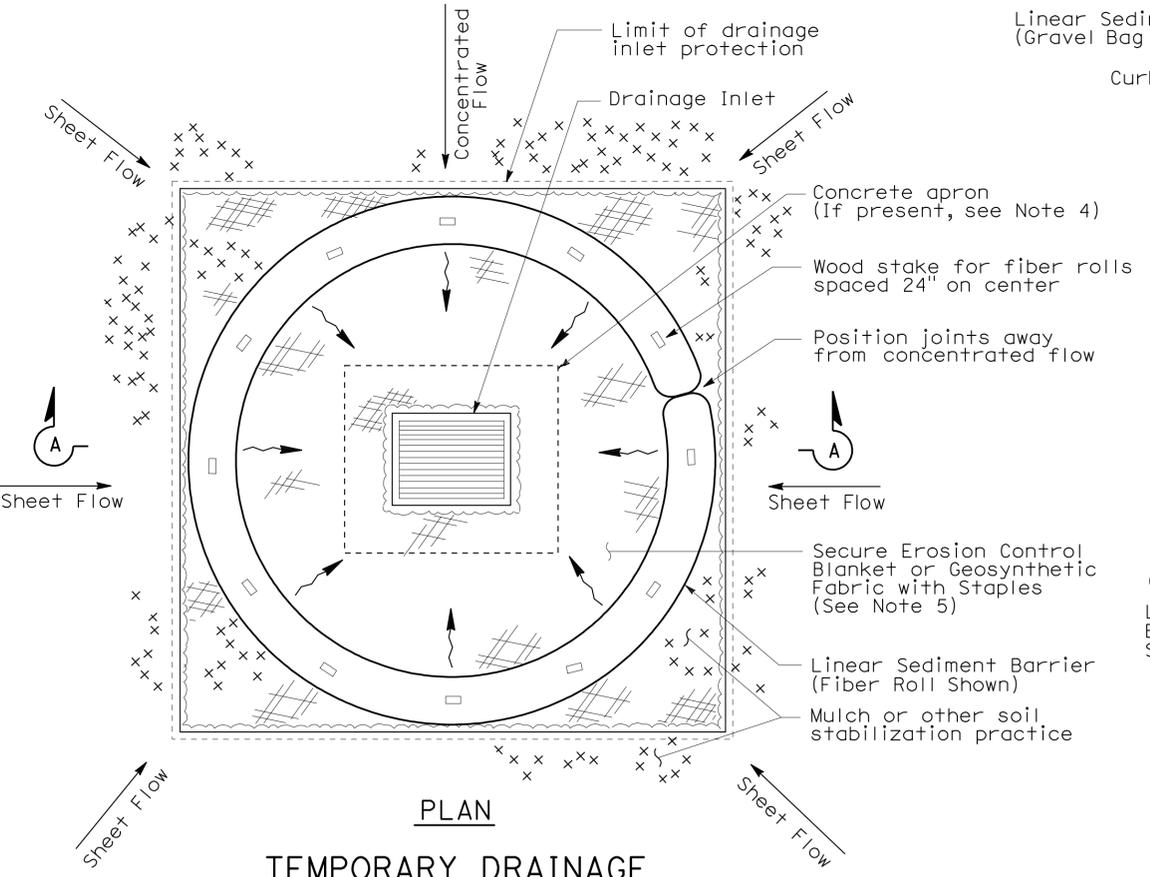
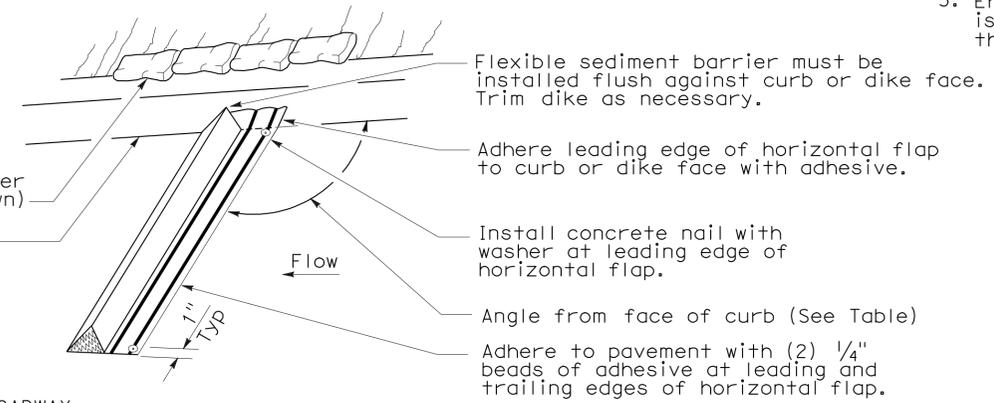
NO SCALE  
NSP T62 DATED AUGUST 15, 2008 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

**FLEXIBLE SEDIMENT BARRIER SPACING TABLE**

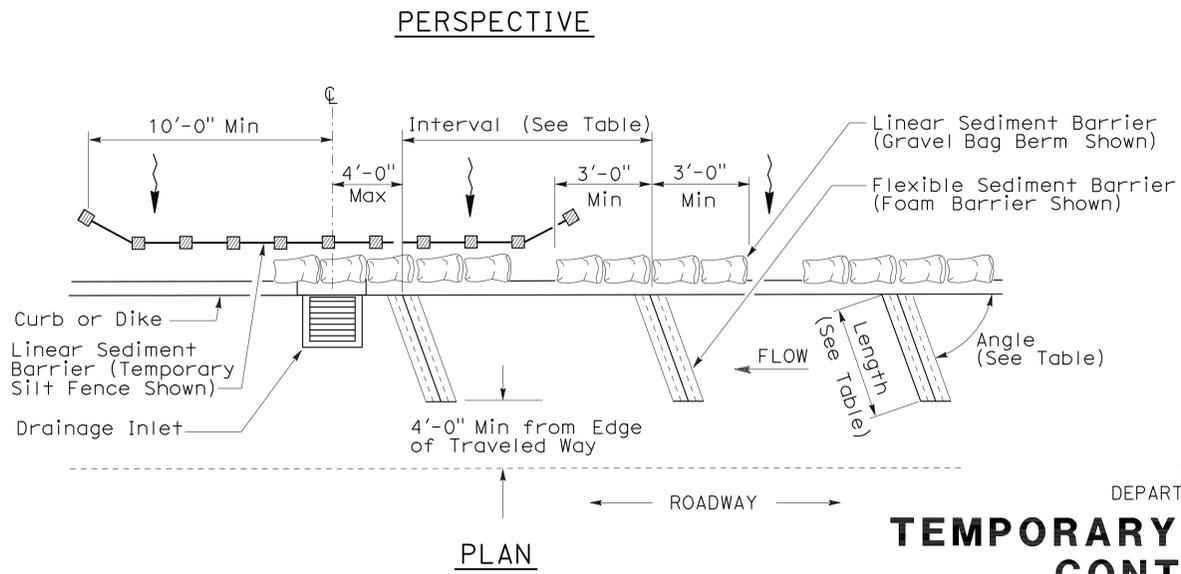
SLOPE OF ROADWAY (PERCENT)	0 to 0.9	1 to 1.9	2 to 2.9	3 to 4	5+
INTERVAL BETWEEN BARRIERS	50'	35'	30'	25'	20'
ANGLE FROM FACE OF CURB	70°	70°	70°	45°	45°
SUGGESTED BARRIER LENGTH	6'	6'	6'	6'	6'



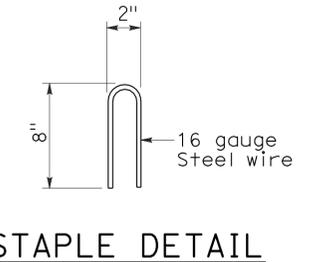
**FLEXIBLE SEDIMENT BARRIER DETAIL (FOAM BARRIER SHOWN)**



**TEMPORARY DRAINAGE INLET PROTECTION (TYPE 4A)**



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



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

**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	Pla	89	8.9	11	46

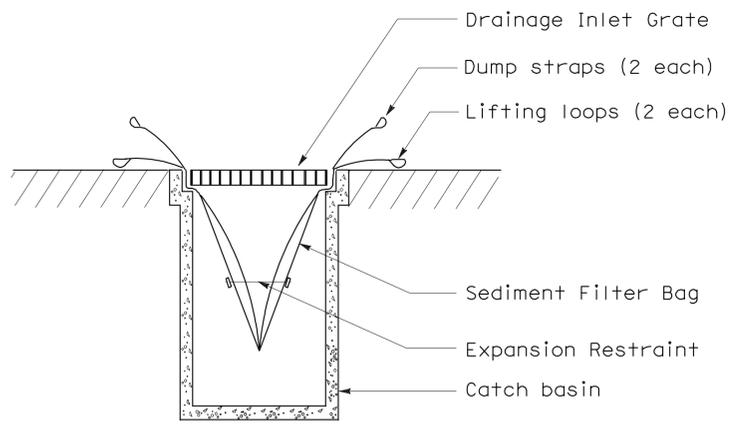
*Robert B. Schott*  
 LICENSED LANDSCAPE ARCHITECT

August 15, 2008  
 PLANS APPROVAL DATE

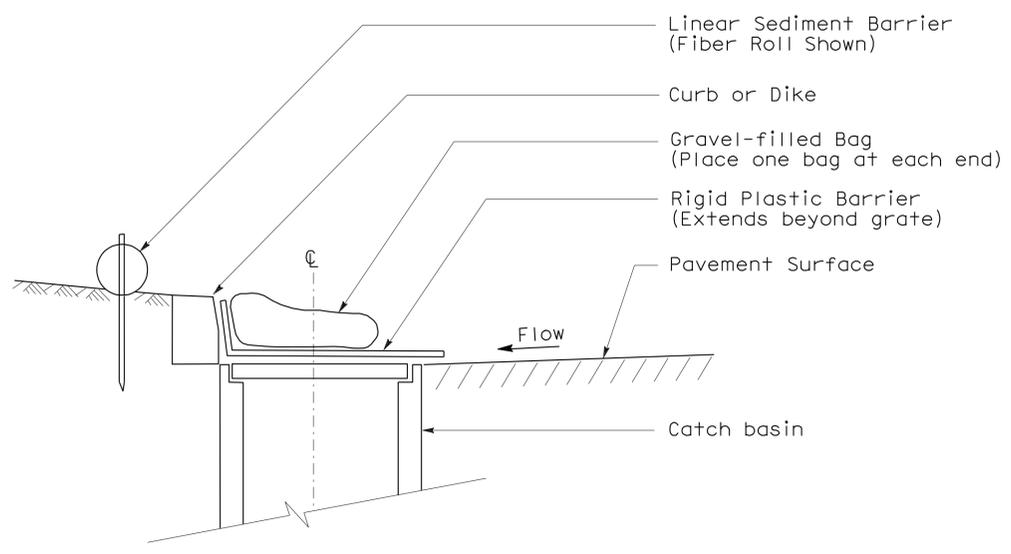
*Robert B. Schott*  
 LICENSED LANDSCAPE ARCHITECT  
 Signature  
 11-04-08  
 Renewal Date  
 08-11-08  
 Date

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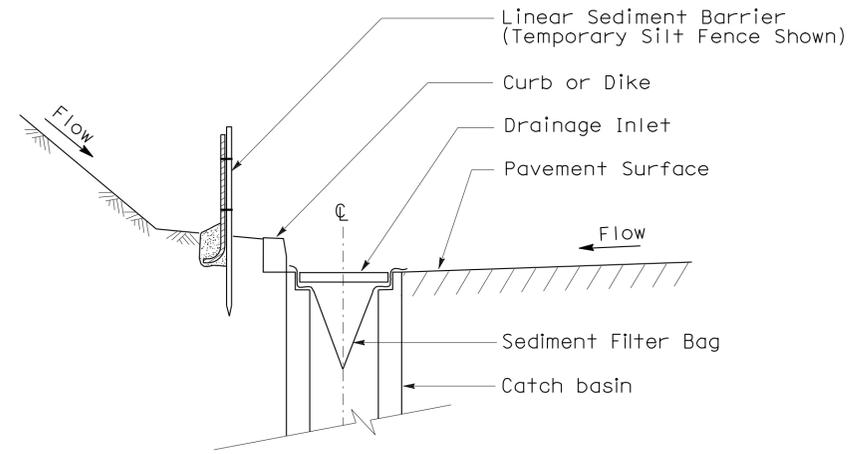
To accompany plans dated 2-21-12



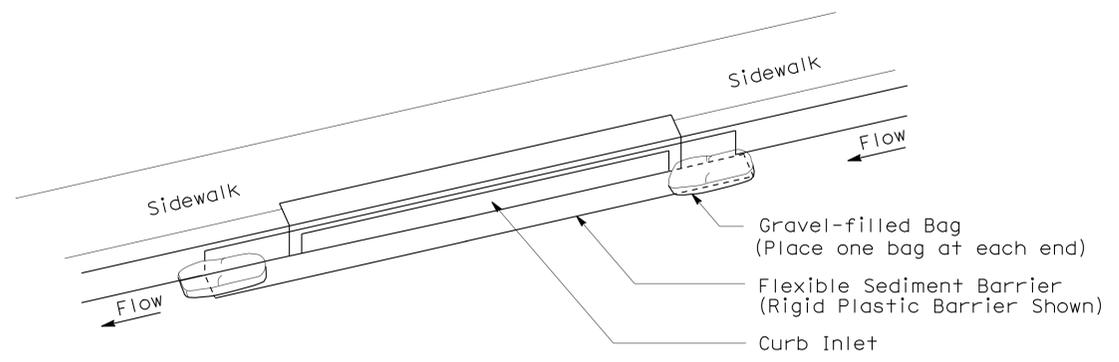
**SECTION B-B**  
**SEDIMENT FILTER BAG DETAIL**



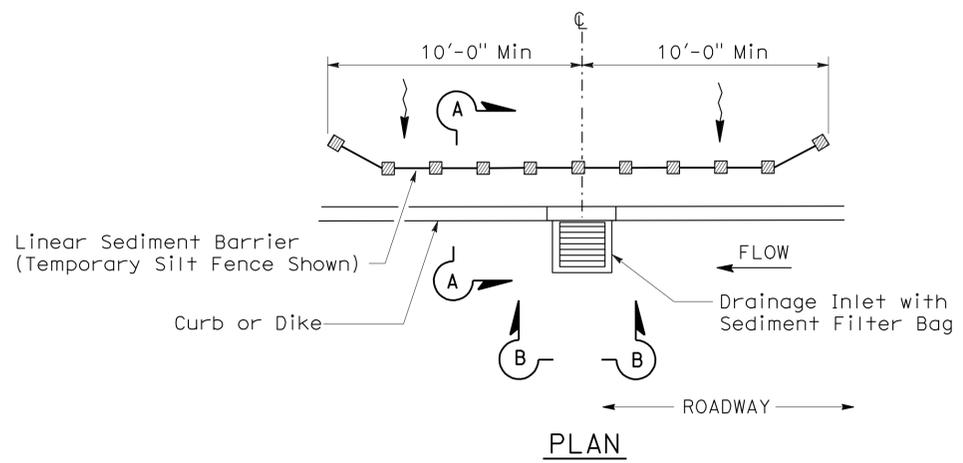
**SECTION**  
**TEMPORARY DRAINAGE INLET PROTECTION (TYPE 6A)**  
**(CATCH BASIN WITH GRATE)**



**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.

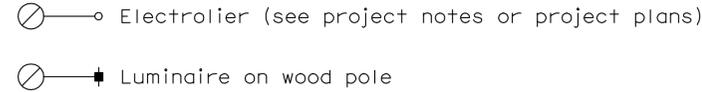
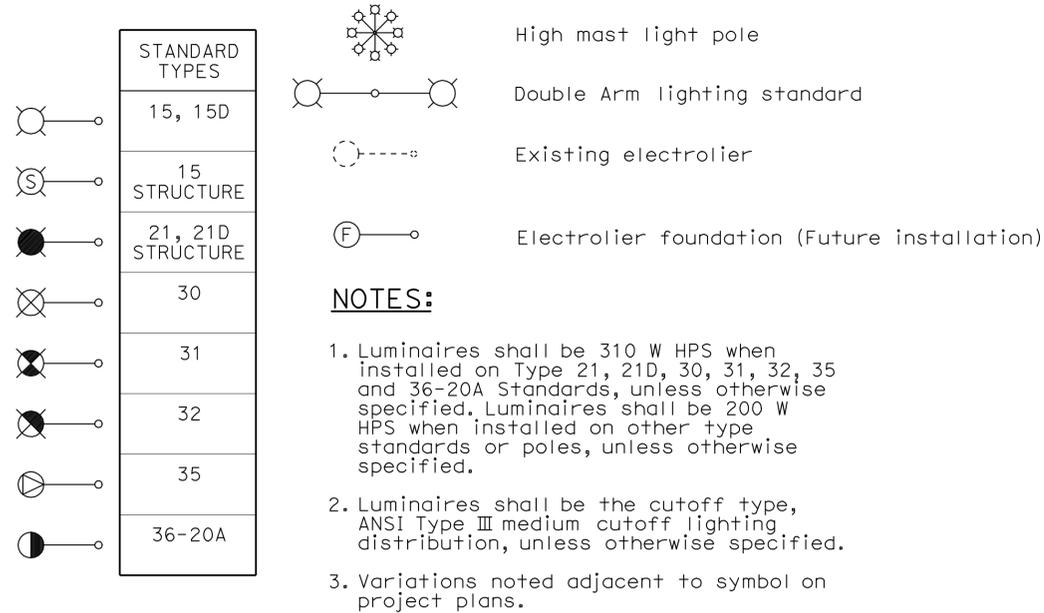
STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**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.

2006 NEW STANDARD PLAN NSP T64

# ELECTROLIERS



## STANDARD NOTES:

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

# ABBREVIATIONS AND EQUIPMENT DESIGNATIONS

## PROPOSED EXISTING

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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Pla	89	8.9	12	46

*Jeffery G. McRae*  
REGISTERED ELECTRICAL ENGINEER

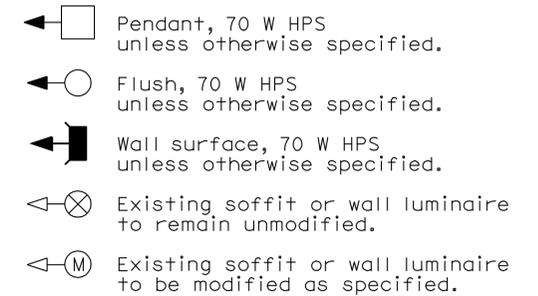
October 5, 2007  
PLANS APPROVAL DATE

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

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

To accompany plans dated 2-21-12

## SOFFIT AND WALL MOUNTED LUMINAIRES



### NOTE:

Arrow indicates "street side" of luminaire.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

## ELECTRICAL SYSTEMS (SYMBOLS AND ABBREVIATIONS)

NO SCALE

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

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

2006 REVISED STANDARD PLAN RSP ES-1A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Pla	89	8.9	13	46

*Jeffery G. McRae*  
 REGISTERED ELECTRICAL ENGINEER  
 October 5, 2007  
 PLANS APPROVAL DATE  
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REGISTERED PROFESSIONAL ENGINEER  
 Jeffrey G. McRae  
 No. E14512  
 Exp. 6-30-08  
 ELECTRICAL  
 STATE OF CALIFORNIA

To accompany plans dated 2-21-12

### CONDUIT

PROPOSED	EXISTING	
		Lighting Conduit, unless otherwise indicated or noted
		Traffic signal conduit
		Communication conduit
		Telephone conduit
		Fire alarm conduit
		Fiber optic conduit
		Conduit termination
		Conduit riser in/on structure or service pole

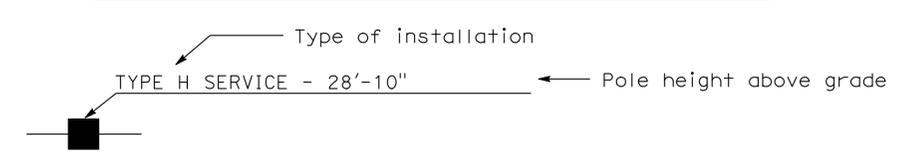
### SIGNAL EQUIPMENT

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

### SERVICE EQUIPMENT

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

### POLE-MOUNTED SERVICE DESIGNATION



### ILLUMINATED OVERHEAD SIGN

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

### SIGNAL EQUIPMENT Cont

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

### NOTES:

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

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

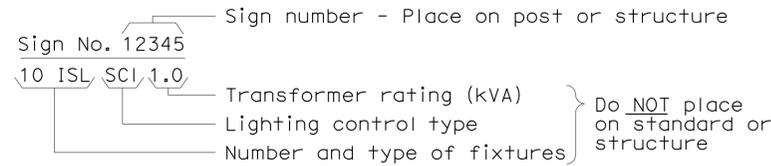
RSP ES-1B DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-1B  
 DATED MAY 1, 2006 - PAGE 401 OF THE STANDARD PLANS BOOK DATED MAY 2006.

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

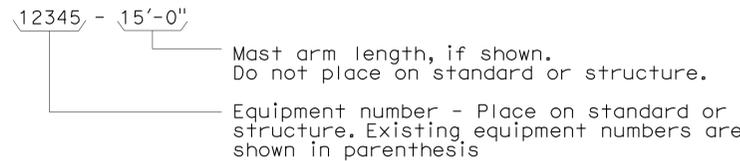
2006 REVISED STANDARD PLAN RSP ES-1B

### EQUIPMENT IDENTIFICATION

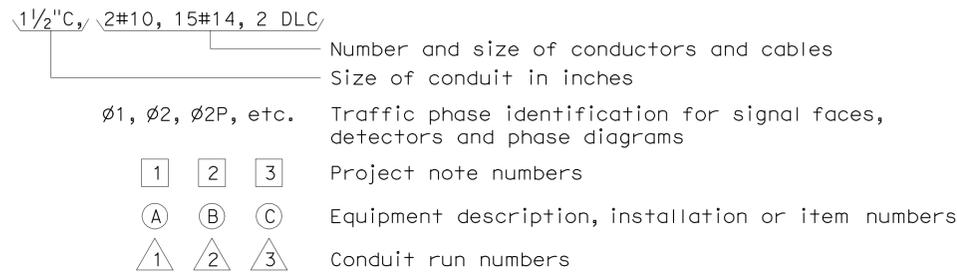
#### ILLUMINATED SIGN IDENTIFICATION NUMBER:



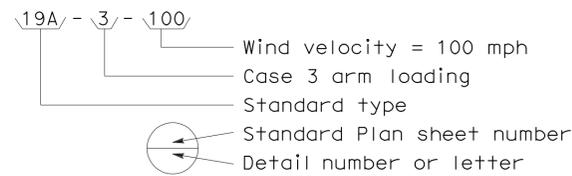
#### ELECTROLIER OR EQUIPMENT IDENTIFICATION NUMBER:



#### CONDUIT AND CONDUCTOR IDENTIFICATION:



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



### MISCELLANEOUS EQUIPMENT

PROPOSED	EXISTING	
CMS	cms	Changeable message sign
		Closed circuit television camera
EMS	ems	Highway advisory radio pole and antenna
		Extinguishable message sign
M V	m v	Detection device M = Microwave sensor V = Video image sensor

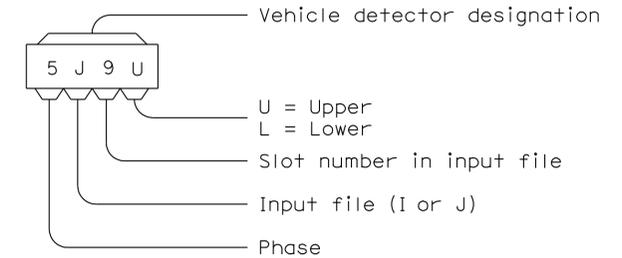
### WIRING DIAGRAM LEGEND

P	Pole	----	External conductor
CB	Circuit breaker	—	Conductor or bus
A	Ampere	—●—	Tie point
V	Volt	—/—	Contactor coil
M	Metered	— —	Contactor, Contact NO
UM	Unmetered	—X—	Terminal blocks
NB	Neutral bus	—/—	Contactor, Contact NC
GB	Ground bus	—/—	Enclosure bond
G	Equipment grounding conductor	— —	Grounding electrode
N	Grounded conductor (Neutral)	— —	Circuit breaker
		Ⓜ	Receptacle

### PULL BOXES

PROPOSED	EXISTING	
		Pull box-No. 5 unless otherwise indicated or noted.
		Pull box-Additional designations or descriptions
3		(C) = Communications pull box
5		(E) = Pull box with extension
6		(S) = Sprinkler control pull box
7		(21) = Anchor bolts and conduit for future installation of Type 21 Standard
8		(T) = Traffic pull box
9		
9A		

### VEHICLE DETECTORS



PROPOSED	EXISTING	
		Type A detector loop. Outline of sawcut shown.
		Type B detector loop. Outline of sawcut shown.
		Type C detector loop. Outline of sawcut shown.
		Type D detector loop. Outline of sawcut shown.
		Type E detector loop. Outline of sawcut shown.
		Type Q detector loop. Outline of sawcut shown.
		Magnetic detector
		Detector handhole
		Microwave or video detection zone

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

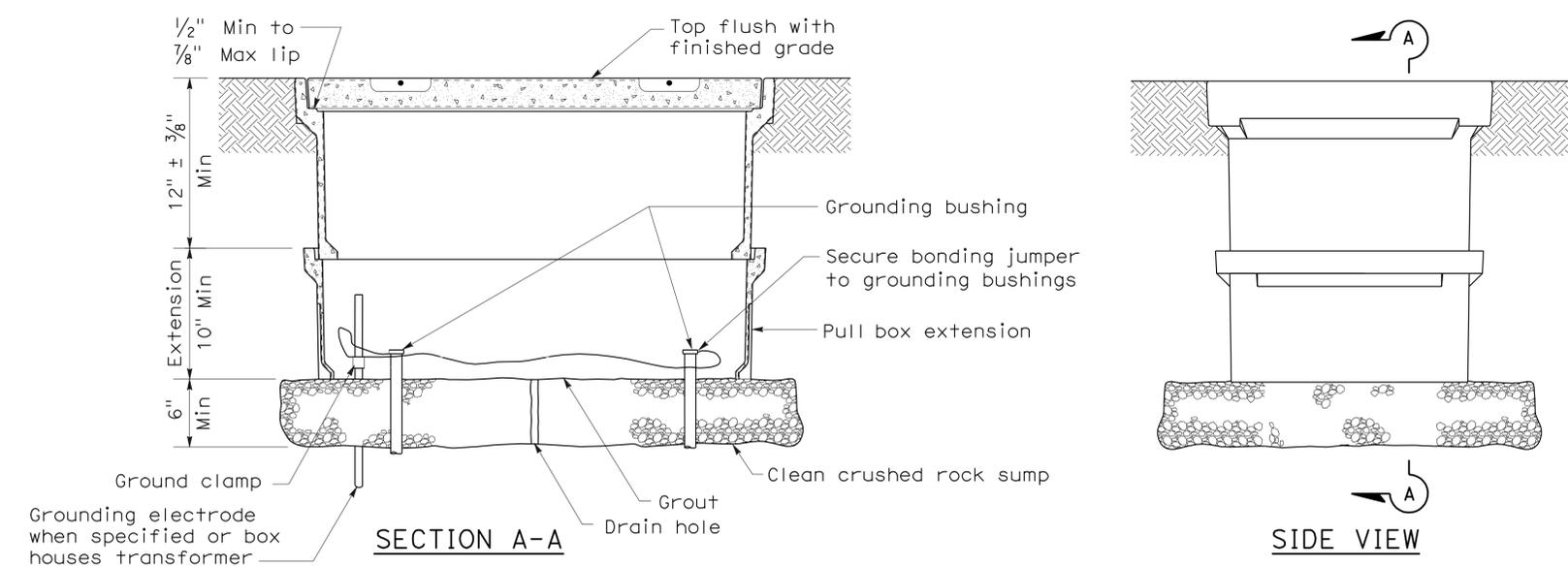
## ELECTRICAL SYSTEMS (SYMBOLS AND ABBREVIATIONS)

NO SCALE

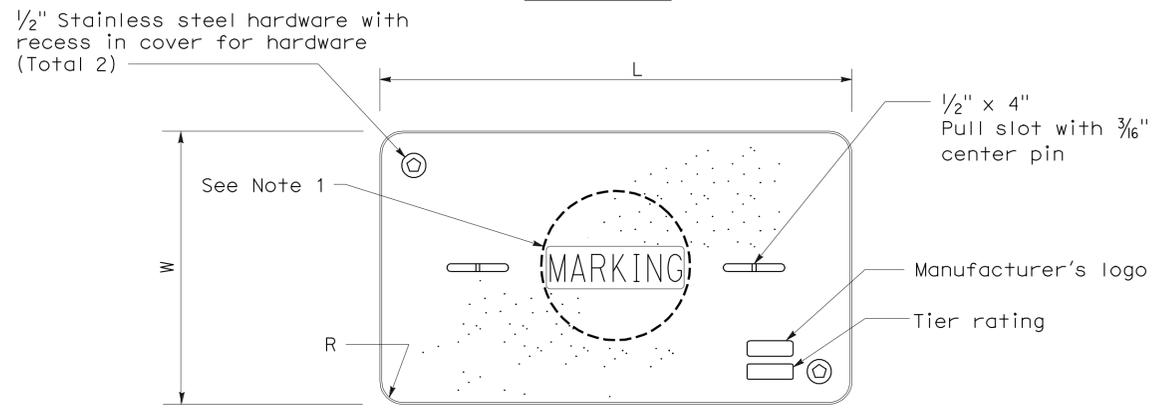
RSP ES-1C DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-1C  
DATED MAY 1, 2006 - PAGE 402 OF THE STANDARD PLANS BOOK DATED MAY 2006.

2006 REVISED STANDARD PLAN RSP ES-1C

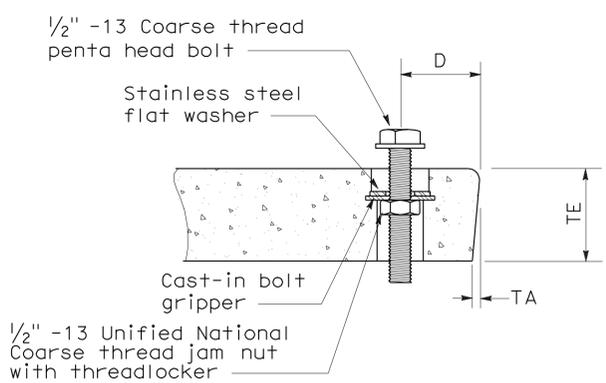
2006 NEW STANDARD PLAN NSP ES-8A



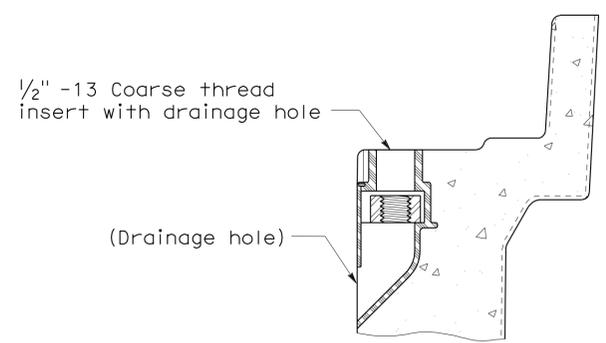
**INSTALLATION DETAILS**  
**DETAIL A**



**COVER TOP VIEW**



**TYPICAL COVER CAPTIVE BOLT**  
(Or similar)



**TYPICAL THREADED INSERT**  
(Or similar)

**NOTES ON PULL BOXES:**

- Pull box covers must be marked as follows: "SERVICE" Service circuits between service point and service disconnect; "SPRINKLER-CONTROL" sprinkler control circuits, 50 V or less; "CALTRANS" on all pull boxes, except pull boxes marked "SPRINKLER-CONTROL"; and "TELEPHONE" Telephone service;
  - No. 3/2 pull box.
    - "SIGNAL" - Traffic signal circuits with or without street or sign lighting circuits.
    - "ST LIGHTING" - Street or sign lighting circuits where voltage is under 600 V.
  - No. 5, 6, 9 or 9A pull box.
    - "TRAFFIC SIGNAL" - Traffic signal circuits with or without street or sign lighting circuits.
    - "STREET LIGHTING" - Street or sign lighting circuits where voltage is under 600 V.
    - "STREET LIGHTING-HIGH VOLTAGE" - Street or sign lighting circuits where voltage is above 600 V.
    - "IRRIGATION" - Circuits to irrigation controller 120 V or more.
    - "RAMP METER" - Ramp meter circuits.
    - "COUNT STATION" - Count or speed monitor circuits.
    - "COMMUNICATIONS" - Communication circuits.
    - "TOS COMMUNICATIONS" - TOS communication line.
    - "TOS POWER" - TOS power.
    - "TDC POWER" - Telephone demarcation cabinet power.
    - "CCTV" - Closed circuit television circuits.
    - "TMS" - Traffic monitoring station circuits.
    - "CMS" - Changeable message sign circuits.
    - "HAR" - Highway advisory radio circuits.
- The nominal dimensions of the opening in which the cover sets must be the same as the cover dimensions (L and W) plus 1/8" or greater.
- Covers and boxes must be interchangeable with California Standard. When interchanged with a standard, the top surfaces must be flush within 1/8". Top outside radius of covers and pull boxes must have a 1/8" radius.
- Pull box extension may be another pull box as long as the bottom edge of the pull box can fit into the cover opening.

To accompany plans dated 2-21-12

DIMENSION TABLE										
PULL BOX	PULL BOX			COVER						
	Minimum Depth Box	Minimum Depth Extension	Maximum Weight	L	W	R	TE	TA	D	Maximum Weight
No. 3/2	12"	N/A	40 lb	1' - 3 3/8"	10 1/8"	1 3/8"	2"	1/8"	1 3/4"	30 lb
No. 5	12"	10"	55 lb	1' - 11 1/4"	1' - 1 3/4"	1 3/8"	2"	1/8"	1 3/4"	60 lb
No. 6	12"	10"	70 lb	2' - 6 1/2"	1' - 5 1/2"	1 3/8"	2"	1/8"	2"	85 lb

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**ELECTRICAL SYSTEMS**  
**(PULL BOX)**  
NO SCALE

NSP ES-8A DATED JANUARY 20, 2012 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

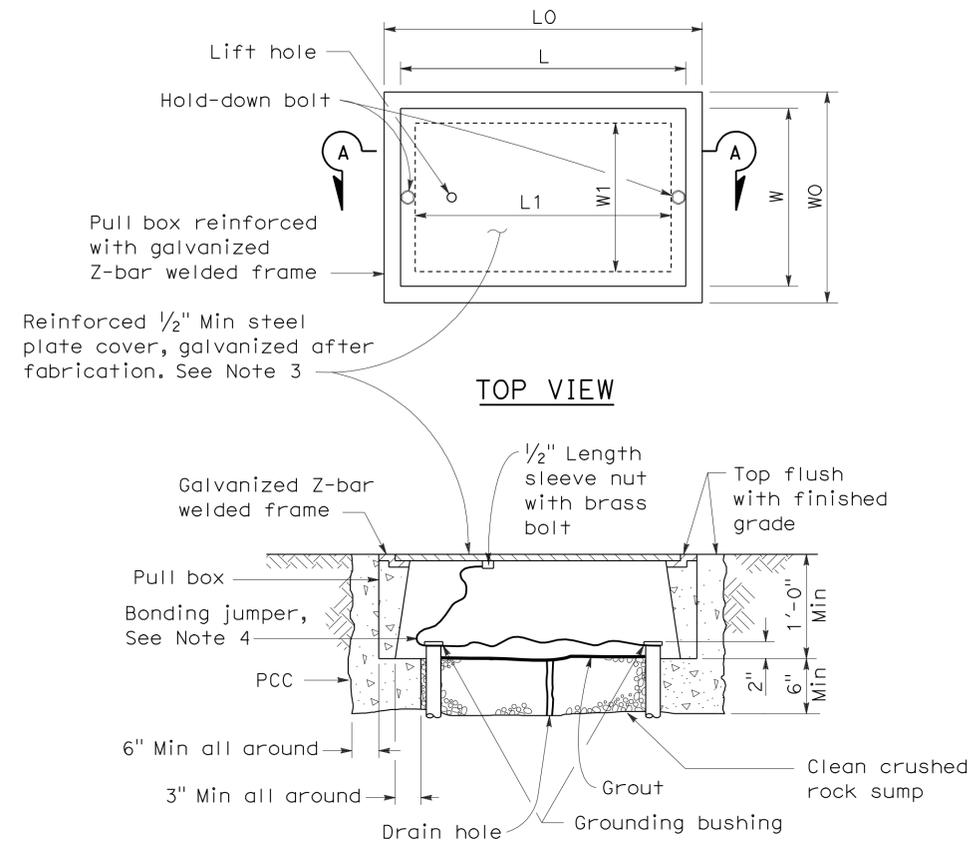
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Pla	89	8.9	16	46

*Jeffery G. McRae*  
 REGISTERED ELECTRICAL ENGINEER  
 January 20, 2012  
 PLANS APPROVAL DATE

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2006 NEW STANDARD PLAN NSP ES-8B

To accompany plans dated 2-21-12



**No. 3 1/2(T), No. 5(T) AND No. 6(T) TRAFFIC PULL BOX**

**NOTES ON PULL BOXES:**

- Traffic pull box shall be provided with steel cover and special concrete footing. Steel cover shall have embossed non-skid pattern.
- Steel reinforcing shall be as regularly used in the standard products of the respective manufacturer.
- Pull box covers must be marked as follows: "SERVICE" Service circuits between service point and service disconnect; "SPRINKLER-CONTROL" Sprinkler control circuits, 50 V or less; "CALTRANS" On all pull boxes, except pull boxes marked "SPRINKLER-CONTROL"; and "TELEPHONE" Telephone service.
  - No. 3 1/2(T) pull box.
    - "SIGNAL" - Traffic signal circuits with or without street or sign lighting circuits.
    - "ST LIGHTING" - Street or sign lighting circuits where voltage is under 600 V.
  - No. 5(T) or 6(T) pull box.
    - "TRAFFIC SIGNAL" - Traffic signal circuits with or without street or sign lighting circuits.
    - "STREET LIGHTING" - Street or sign lighting circuits where voltage is under 600 V.
    - "STREET LIGHTING-HIGH VOLTAGE" - Street or sign lighting circuits where voltage is above 600 V.
    - "IRRIGATION" - Circuits to irrigation controller 120 V or more.
    - "RAMP METER" - Ramp meter circuits.
    - "COUNT STATION" - Count or speed monitor circuits.
    - "COMMUNICATION" - Communication circuits.
    - "TOS COMMUNICATIONS" - TOS communications line.
    - "TOS POWER" - TOS power.
    - "TDC POWER" - Telephone demarcation cabinet power.
    - "CCTV" - Closed circuit television circuits.
    - "TMS" - Traffic monitoring station circuits.
    - "CMS" - Changeable message sign circuits.
    - "HAR" - Highway advisory radio circuits.
- Bonding jumper for metal covers shall be 3' long, minimum.
- The nominal dimensions of the opening in which the cover sets must be the same as the cover dimensions except the length and width dimensions shall be 1/8" greater.
- Covers and boxes must be interchangeable with California standard male and female gages. When interchanged with a standard male or female gage, the top surfaces must be flush within 1/8".

**DIMENSION TABLE**

PULL BOX	BOX						COVER				
	Minimum * Thickness	Minimum Depth Box and Extension	W0	L0	L1	W1	L **	W **	R	Edge Thickness	Edge Taper
No. 3 1/2(T)	1 1/2"	1'-0"	1'-5" ± 1"	1'-8 7/8" ±	1'-2 1/2" ±	10 5/8" ± 1"	1'-8" ±	1'-1 3/4" ±	0"	1/2"	None
No. 5(T)	1 3/4"	1'-0"	1'-11 1/2" ± 1"	2'-5 1/2" ±	1'-7" ±	1'-1" ± 1"	2'-3" ±	1'-4" ±	0"	1/2"	None
No. 6(T)	2"	1'-0"	2'-6" ± 1"	2'-11 1/2" ±	1'-11 1/2" ±	1'-5" ± 1"	2'-9" ±	1'-8" ±	0"	1/2"	None

\* Excluding conduit web      \*\* Top dimension

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**ELECTRICAL SYSTEMS  
 (TRAFFIC RATED PULL BOX)**  
 NO SCALE

NSP ES-8B DATED JANUARY 20, 2012 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Plc	89	8.9	17	46

LICENSED ARCHITECT: *[Signature]*  
 DATE: 8/9/2011  
 LICENSED ARCHITECT: Goffredo Riveccio  
 No. C-17914  
 Exp. 8/31/2013  
 STATE OF CALIFORNIA

2-21-12  
 PLANS APPROVAL DATE

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

**ACCESSIBILITY DESIGN APPROVAL STAMP**  
DOT / DES / OTA

PROJECT ID: **03000206041**

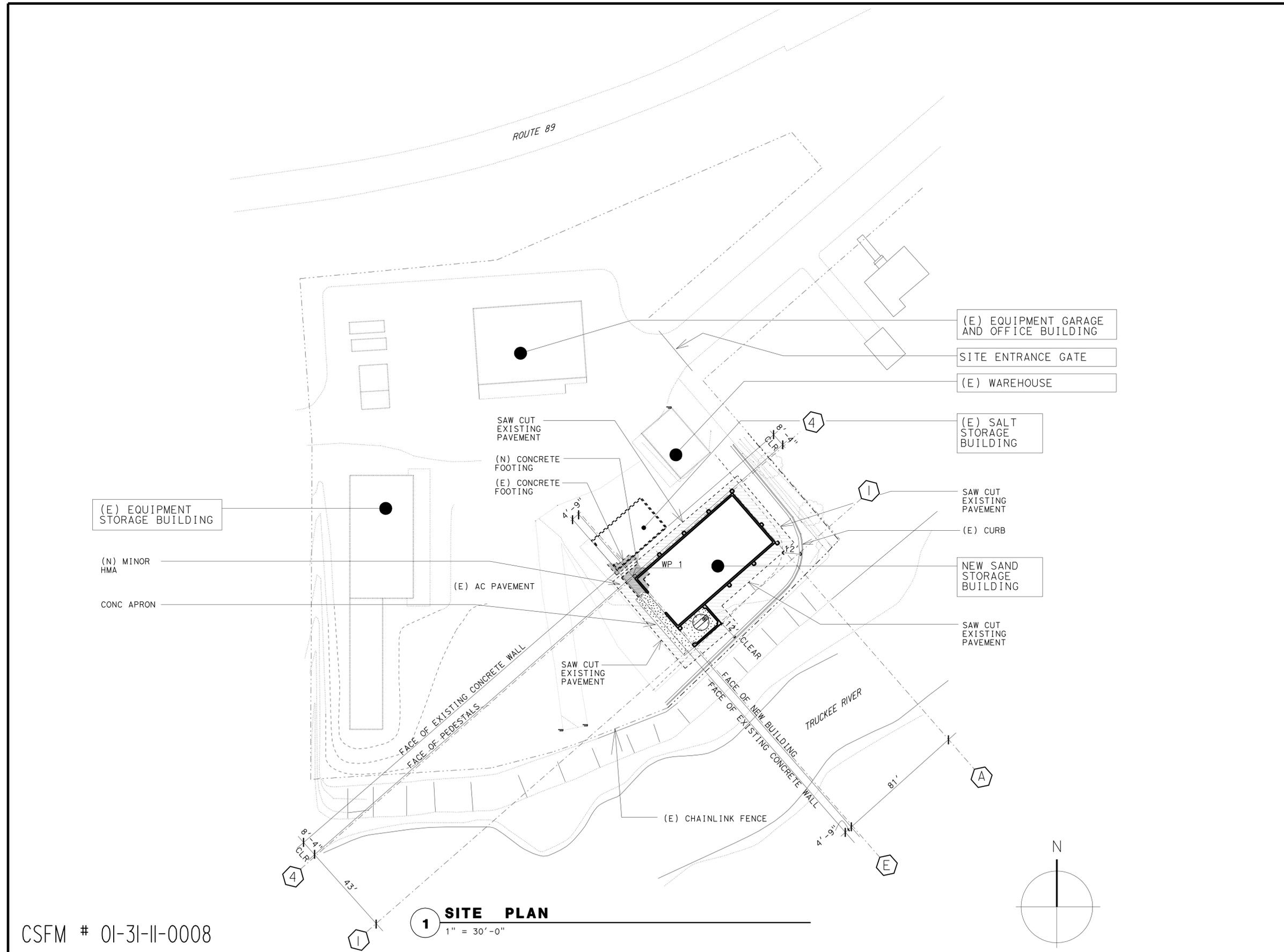
Reviewed by: *[Signature]* Y.A. WANG  
Date: 11/02/11

**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]* FRANCIS SOTICH  
Approval date: 08-29-11

- ACCESSIBILITY NOTES**
- PEDESTRIAN PATH OF TRAVEL (POT) FROM SITE ENTRANCE ON PROPERTY LINE TO THE NEW BLDG IS NOT REQUIRED TO BE IN THE SCOPE OF WORK, AS NO PUBLIC TRANSPORTATION IS AVAILABLE ON THE ADJACENT STREET, AND THE SITE IS AT A REMOTE AND ISOLATED LOCATION THAT THE ADJACENT STREET IS WITHOUT ANY SIDEWALK. ALL USERS AND ANY VISITORS SHALL ARRIVE BY VEHICLES ONLY.
  - ANY POTS FROM THE NEW BLDG TO (E) BLDGS/FACILITIES NOT ALTERED UNDER THIS PROJECT ARE NOT REQUIRED TO BE INCLUDED IN THE SCOPE OF WORK.
  - ANY POTS CONNECTING (E) BLDGS/FACILITIES NOT ALTERED UNDER THIS PROJECT ARE NOT REQUIRED TO BE INCLUDED IN THE SCOPE OF WORK.
  - NO PARKING SPACE IS DESIGNATED AND IDENTIFIED ON THE SITE. ANY VEHICLES MAY PARK NEXT TO THE CONCRETE APRON AT THE FRONT OPENING TO ACCESS THE NEW BLDG.
  - FRONT CONCRETE APRON AT THE NEW BLDG SHALL HAVE Max 5% SLOPE IN THE DIRECTION OF TRAVEL AND Max 2% CROSS SLOPE.
  - ANY LEVEL CHANGE AT THE FRONT OPENING BETWEEN THE INTERIOR SLAB AND THE CONCRETE APRON, INCLUDING ANY THRESHOLD THICKNESS, SHALL BE Max 1/2 INCH W/Max 1:2 SLOPE. LEVEL CHANGE NOT EXCEEDING 1/4 INCH MAY BE VERTICAL.
  - AISLES FORMED BY EQUIPMENT/ STORED MATERIALS/ WALLS SHALL BE Min 36 INCHES WIDE IF SERVING ONE SIDE, AND Min 44 INCHES WIDE IF SERVING BOTH SIDES, EXCEPT AT BRINE TANK, SEE BELOW.
  - BRINE TANK IS EXEMPT FROM ACCESSIBILITY REQUIREMENT. EXEMPTION DOCUMENT IS ON FILE.
  - SWITCHES, OUTLETS AND OTHER CONTROL OR OPERATING MECHANISM SHALL BE LOCATED AT Max 48" TO TOP OF CONTROL BOX OR HOUSING, AND Min 15" TO BOTTOM OF CONTROL BOX OR HOUSING.



**1 SITE PLAN**  
1" = 30'-0"

CSFM # 01-31-11-0008

DESIGN SUPERVISOR: <i>[Signature]</i> R. TRAVIS DESIGN ARCHITECT: <i>[Signature]</i> WARREN LAI	DESIGNER: GOFFREDO RIVECCIO DRAWN BY: GOFFREDO RIVECCIO	CHECKED BY: <i>[Signature]</i> WARREN LAI STRUCTURAL REVIEW: WARREN LAI	<b>SHEET LEGEND</b> A-I ARCHITECTURAL M-I MECHANICAL P-I PLUMBING ST-I STRUCTURAL EE-I ELECTRICAL SS-I SANITARY	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO.: 19M5727 POST MILE:	<b>TAHOE CITY SAND HOUSE</b> SITE PLAN	SHEET OF: <b>GP</b> X X
a0_01.dgn TAEMWW Imper1al Rev. 7/10 22-FEB-2012 14:43		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3		UNIT PROJECT NUMBER & PHASE: 3582 030002006041		DISREGARD PRINTS BEARING EARLIER REVISION DATES →		REVISION DATES (PRELIMINARY STAGE ONLY)

22-FEB-2012 14:43

# ARCHITECTURAL ABBREVIATIONS

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

# SYMBOLS

	GRID LINE
	CENTER LINE
	MATCH LINE
	BUILDING WORKING POINT NO. X
	SITE DATUM POINT NO. X
	ELEVATION POINT
	ROOM NUMBER
	DOOR DESIGNATION
	WINDOW DESIGNATION
	LOUVER DESIGNATION
	BUILDING SECTION NUMBER
	SHEET
	DETAIL NUMBER
	SHEET
	DETAIL DRAWN ON SAME SHEET
	PARTIAL SECTION NUMBER
	SHEET
	ELEVATION NUMBER
	DRAWING NUMBER
	SHADED ARROW INDICATES ELEVATION DRAWN
	SHEET
	SECTION LETTER, SECTION DRAWN ON SAME SHEET
	ELEVATION LETTER, ELEVATION DRAWN ON SAME SHEET
	DOWN SLOPE
	FINISH FLOOR ELEVATION

# SHEET INDEX

ARCHITECTURAL	GP	SITE PLAN
	A0-1	ABBREVIATIONS, SHEET INDEX, BUILDING DATA
	AI-1	FLOOR PLAN, COLOR & PAINT SCHEDULE
	AI-2	ROOF PLAN
	AI-3	BUILDING ELEVATIONS
AI-4	BUILDING ELEVATIONS	
AI-5	BUILDING SECTIONS	
A2-1	DETAILS	
STRUCTURAL	ST-1	LEGEND
	ST-2	CONCRETE STANDARD
	STI-0	DESIGN CRITERIA AND DETAIL NOTES
	STI-1	FOUNDATION PLAN
	STI-2	BUILDING SECTION AND ELEVATIONS
	STI-3	ELEVATIONS
STI-4	FOUNDATION AND PEDESTAL DETAILS	
STI-5	FOUNDATION DETAILS	
STI-6	FRAMING DETAILS	
MECH	M-1	MECHANICAL PLAN
	M-2	PARTIAL PLAN / TANK ELEVATION
	M-3	TANK / APPURTENANCES ELEVATION
ELECTRICAL	EE-0	LEGEND
	EE0-1	TITLE 24 COMPLIANCE NO.1
	EE0-2	TITLE 24 COMPLIANCE NO.2
	EE0-3	TITLE 24 COMPLIANCE NO.3
	EE0-4	TITLE 24 COMPLIANCE NO.4
EEL-1	EXISTING SITE PLAN	
EEL-2	MODIFIED SITE PLAN	
EEL-3	SAND STORAGE POWER AND LIGHTING	
EEL-4	POWER AND LIGHTING	
EEL-5	ELEVATION AND DETAILS	
PROJECT SCOPE		
THE SCOPE OF THE PROJECT SHALL INCLUDE THE CONSTRUCTION OF A 3,200 SQ.FT. PRE-ENGINEERED SAND STORAGE BUILDING AND THE INSTALLATION A NEW DOUBLE WALL 5,500 GAL BRINE TANK.		

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Plca	89	8.9	18	46

8/9/2011 DATE

LICENSED ARCHITECT

LICENSED ARCHITECT

2-21-12 PLANS APPROVAL DATE

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ACCESSIBILITY DESIGN APPROVAL STAMP DOT / DES / OTA

PROJECT ID: 03000206041

Reviewed by: Y. A. WANG Date: 11/02/11

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: FRANCIS SOLICH Approval date: 08-29-11

### BUILDING DATA

BUILDING CONSTRUCTION TYPE	VB
OCCUPANCY CLASSIFICATION	S2
NUMBER OF STORIES	1
ACTUAL BUILDING HEIGHT	28'-0"
ACTUAL BUILDING AREA	3,200 S.F.
ALLOWABLE AREA PER C.B.C.	13,500 S.F.
FIRE SPRINKLERED	NO
FIRE ALARM	NO
OTHER FIRE PROTECTION SYSTEMS :	
FIRE HYDRANT	YES
SMOKE CONTROL SYSTEM	NO

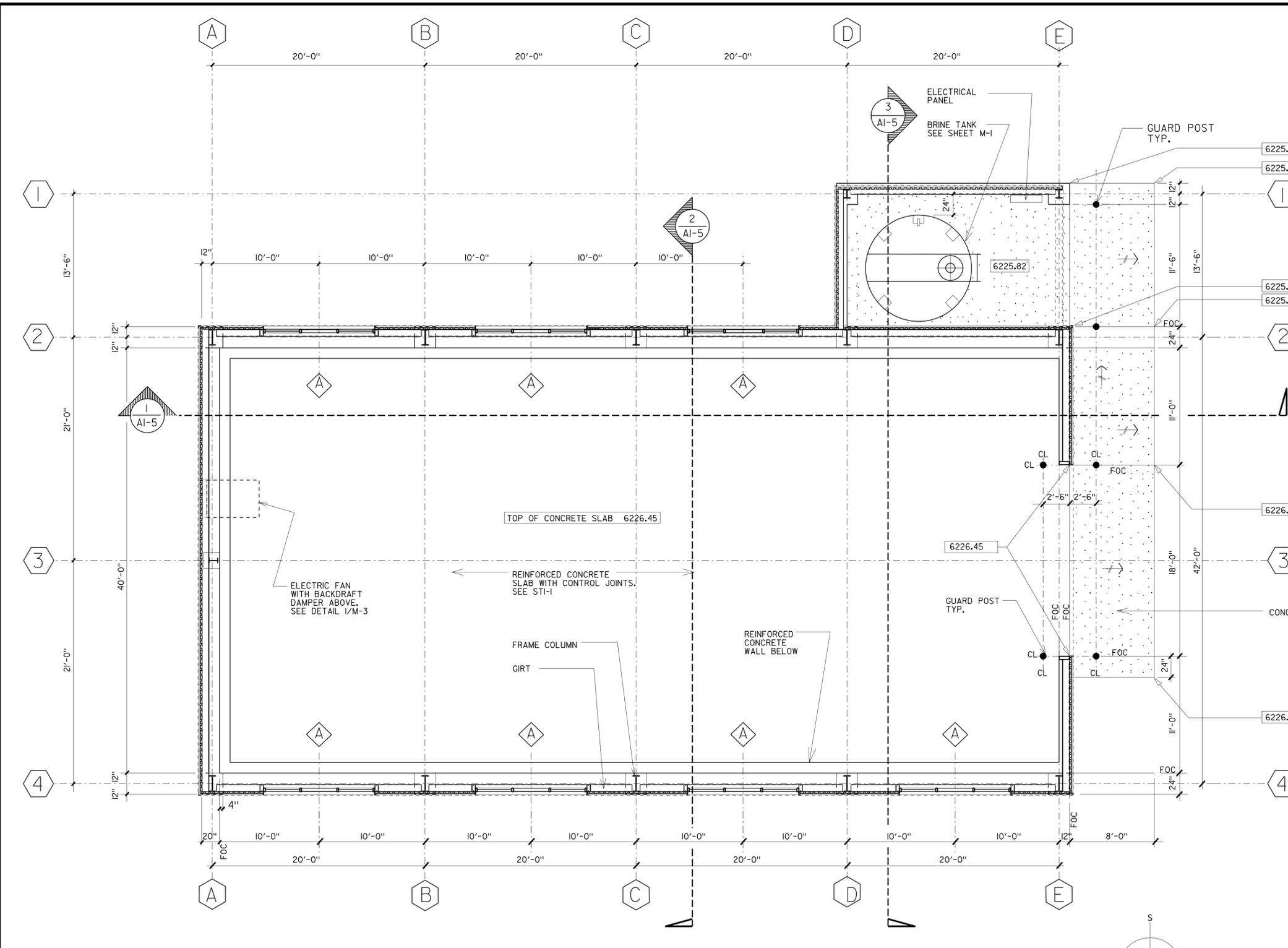
### DESIGN CRITERIA

ALL THE BUILDING WORK SHALL COMPLY WITH THE FOLLOWING CODES :

- 2010 CALIFORNIA BUILDING CODE
- 2010 CALIFORNIA ENERGY CODE (CES-T24)
- 2010 CALIFORNIA FIRE CODE
- 2010 CALIFORNIA MECHANICAL CODE
- 2010 CALIFORNIA PLUMBING CODE
- 2010 CALIFORNIA ELECTRICAL CODE
- 2008 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS
- 1991 AMERICANS WITH DISABILITIES ACT STANDARDS

### GENERAL NOTES

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



**1 FLOOR PLAN** PLAN ELEVATION AT 15'-0" FROM TOP OF FINISH FLOOR 0.00" ELEV  
 SCALE : 1/8" = 1'-0"

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Pld	89	8.9	19	46

LICENSED ARCHITECT: *[Signature]*  
 DATE: 8/9/2011  
 PROJECT NO.: 2-21-12  
 PLANS APPROVAL DATE: 8/9/2011

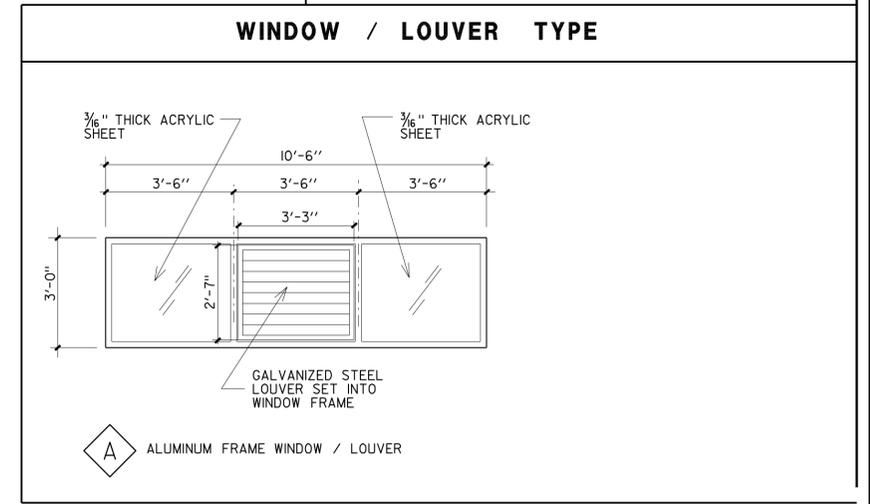
LICENSED ARCHITECT: Goffredo Riveccio  
 No. C-17914  
 Exp. 8/31/2013  
 STATE OF CALIFORNIA

ACCESSIBILITY DESIGN APPROVAL STAMP  
 DOT / DES / OTA  
 PROJECT ID: 03000206041  
 Reviewed by: *[Signature]* Y.A. WANG  
 Date: 11/02/11

CALIFORNIA STATE FIRE MARSHAL APPROVED  
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 Reviewed by: *[Signature]* FRANCIS SOLICH  
 Approval date: 08-29-11

COLOR & PAINT SCHEDULE		
ITEM	COATING SYSTEM	COLOR
METAL ROOFING	PRE-FINISHED BY MFR	GREEN: FEDERAL STANDARD 595B COLOR No. 34108
METAL SIDING	PRE-FINISHED BY MFR	BROWN: FEDERAL STANDARD 595B COLOR No. 30045
STRUCTURAL STEEL	3	POROUS STONE DE6220 LRV 57, DUNN EDWARDS
CONCRETE WALLS (ONLY @ EXTERIOR SIDE)	1	CONCRETE STAIN 2855 SYCAMORE TAN BY SHERWIN-WILLIAMS
MISC METALS	2	POROUS STONE DE6220 LRV 57, DUNN EDWARDS
ALUMINUM FRAME WINDOWS	PRE-FINISHED BY MFR	TO BE SELECTED FROM THE STANDARD MANUFACTURER'S STANDARD FINISHES
GUARD POSTS	3	DE5340 BANANA PEEL LRV 76 BY DUNN EDWARDS

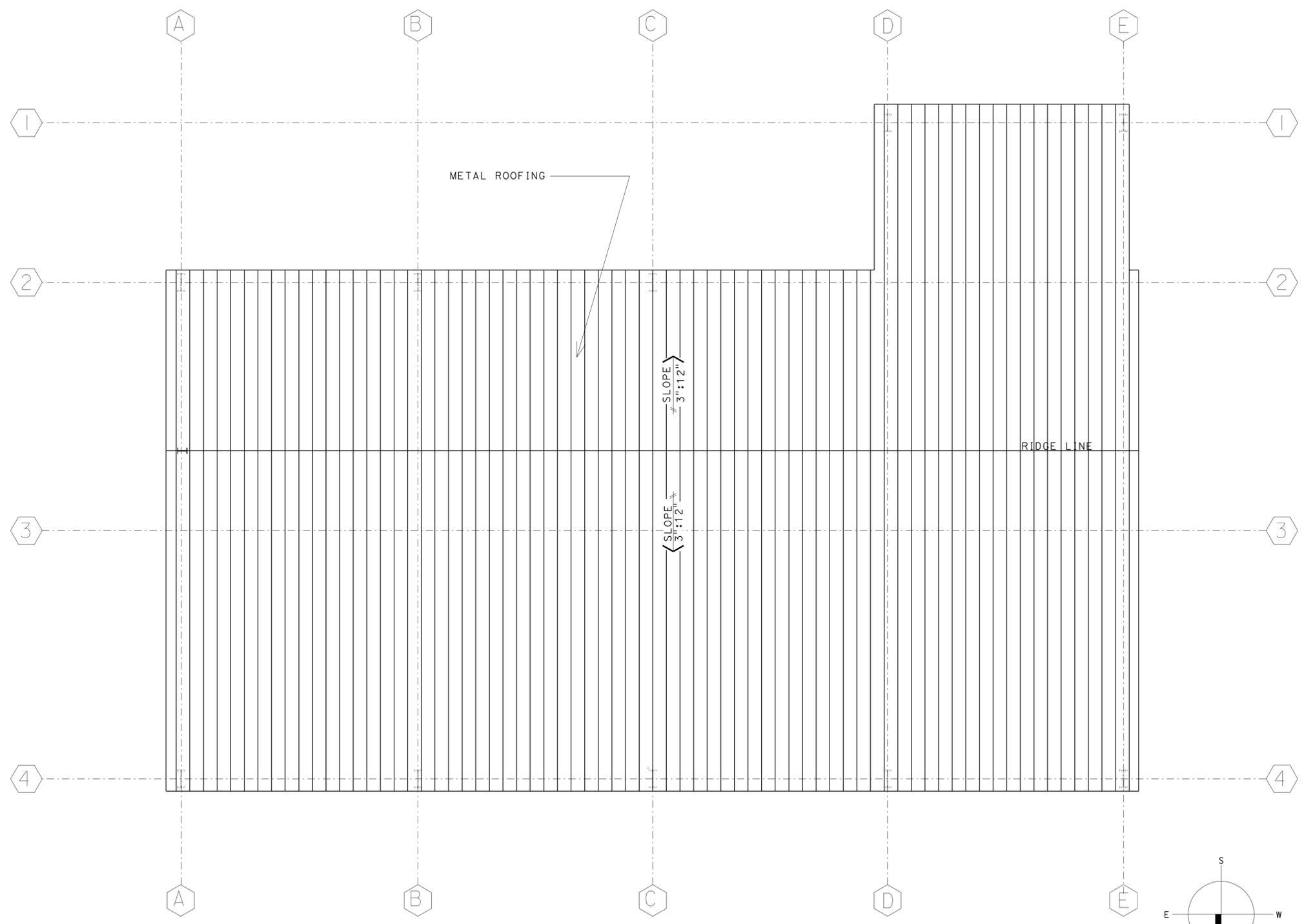
MANUFACTURERS' DESIGNATIONS ARE SHOWN ONLY AS REFERENCE AND EXAMPLES OF QUALITY, COLOR AND FINISH. EQUAL MANUFACTURER'S PRODUCTS WHICH MATCH THESE PRODUCTS MAY BE SUBMITTED FOR REVIEW AND APPROVAL.



DESIGN BY: GOFFREDO RIVECCIO CHECKED: WARREN LAI DETAILS BY: GOFFREDO RIVECCIO CHECKED: WARREN LAI QUANTITIES BY: [ ] CHECKED: [ ]	CSFM # 01-31-II-0008	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 19M5727 POST MILE [ ]	<b>TAHOE CITY SAND HOUSE</b> FLOOR PLAN, COLOR & PAINT SCHEDULE	SHEET OF <b>A1-1</b>

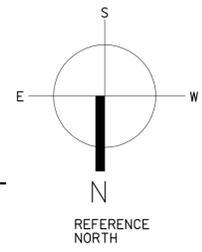
a1\_1.dgn  
 TAEMWW Imper1al Rev. 7/10 06-MAR-2012 13:28

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Pla	89	8.9	20	46
 LICENSED ARCHITECT			8/9/2011		
PLANS APPROVAL DATE: 2-21-12 <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>03000206041</b>	<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:  Y.A. WANG Date: 11/02/11	Reviewed by:  FRANCIS SOLICH Approval date: 08-29-11

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



a1_2.dgn TAEMWW Imperial Rev. 7/10	CSFM # 01-31-II-0008	DESIGN BY	GOFFREDO RIVIECCIO	CHECKED	WARREN LAI	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO.	19M5727	<b>TAHOE CITY SAND HOUSE</b> ROOF PLAN	SHEET	OF
		DETAILS BY	GOFFREDO RIVIECCIO	CHECKED	WARREN LAI			POST MILE			A1-2	
22-FEB-2012 14:44		QUANTITIES BY		CHECKED		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	UNIT PROJECT NUMBER & PHASE	3582 030002006041	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	-07

22-FEB-2012 14:44 a1\_2.dgn

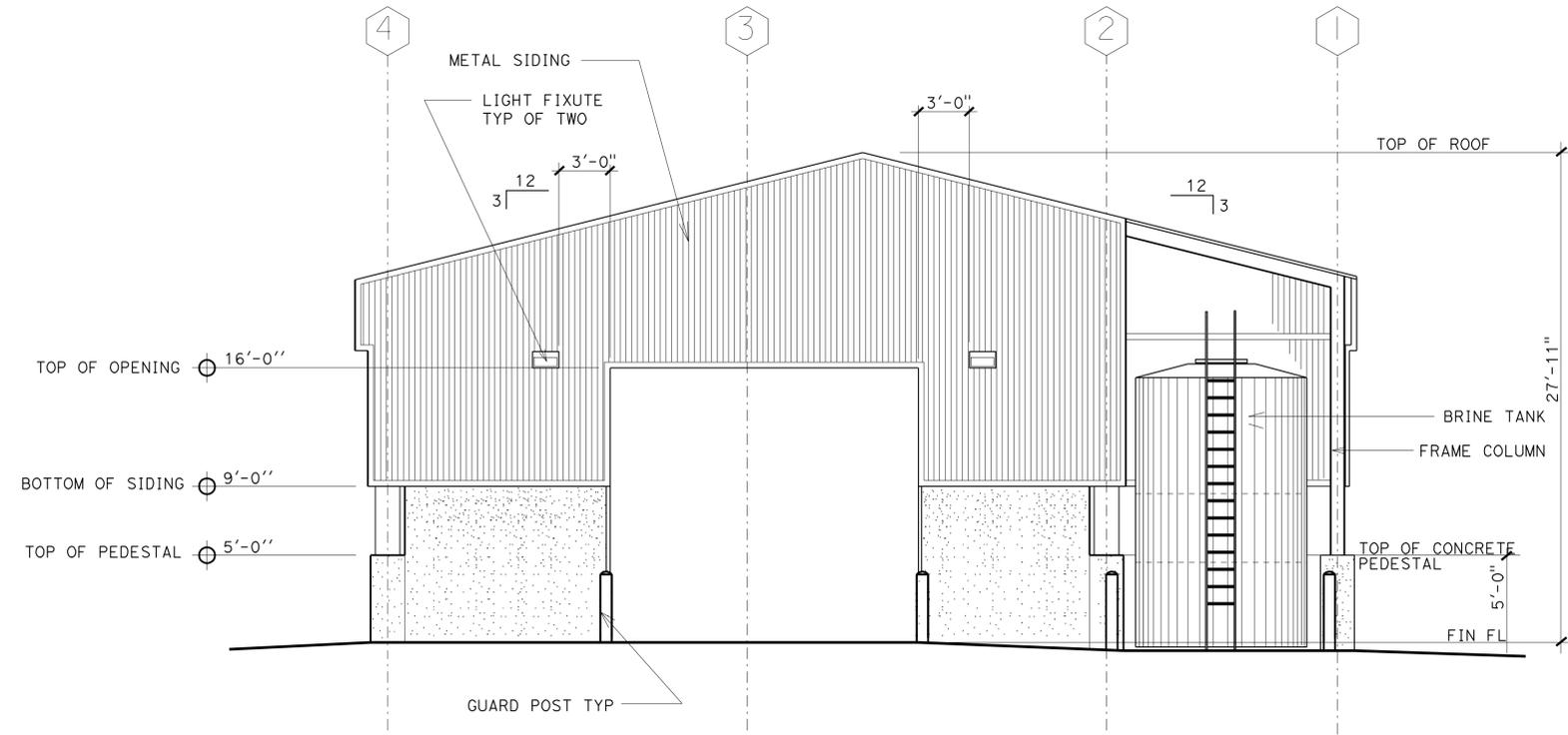
DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Plā	89	8.9	21	46

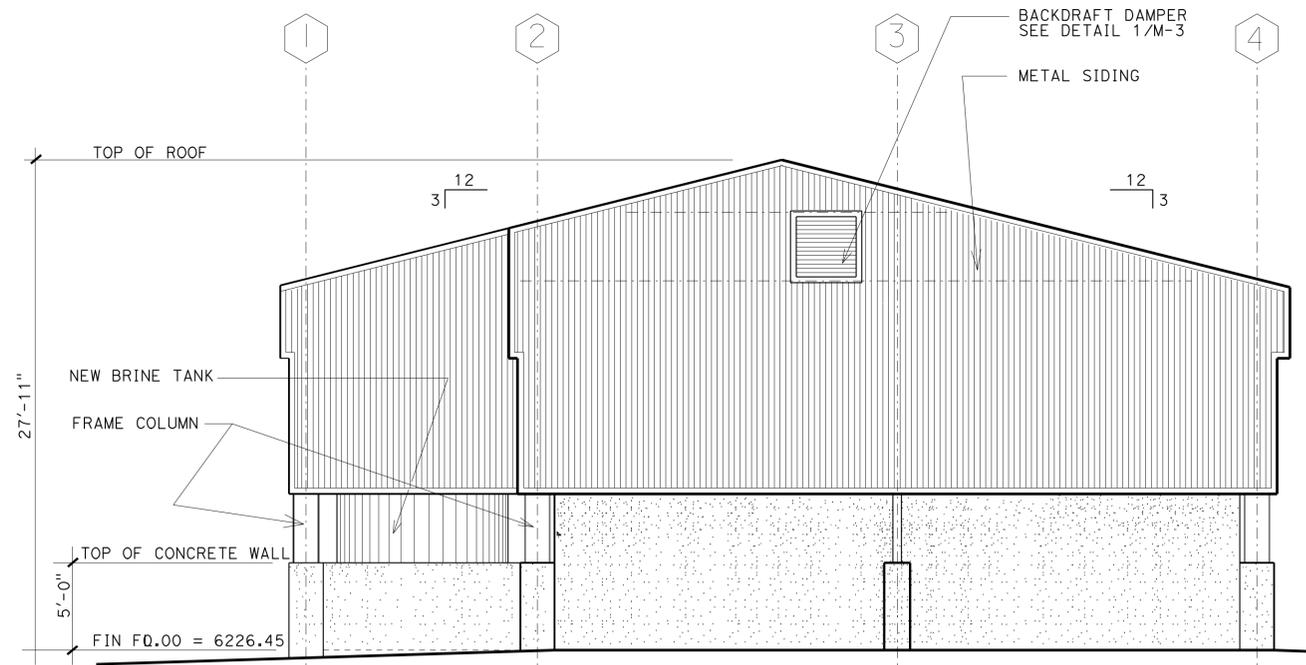
 LICENSED ARCHITECT		8/9/2011 DATE
2-21-12 PLANS APPROVAL DATE		

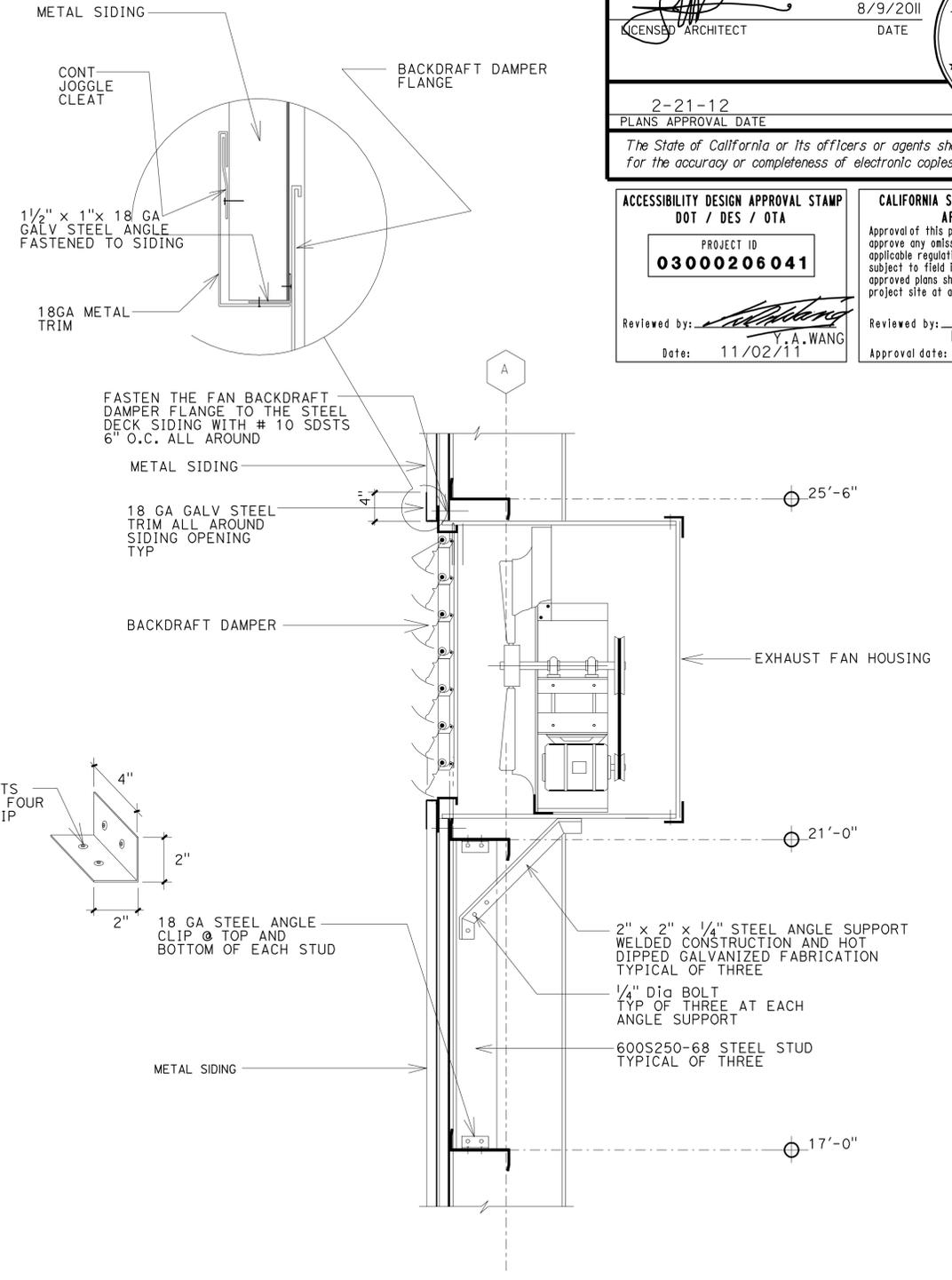
ACCESSIBILITY DESIGN APPROVAL STAMP DOT / DES / OTA PROJECT ID <b>03000206041</b>		CALIFORNIA STATE FIRE MARSHAL APPROVED Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
Reviewed by:  Y.A. WANG Date: 11/02/11	Reviewed by:  FRANCIS SOLICH Approval date: 08-29-11	



**1 WEST ELEVATION**  
 SCALE: 3/16" = 1'-0"



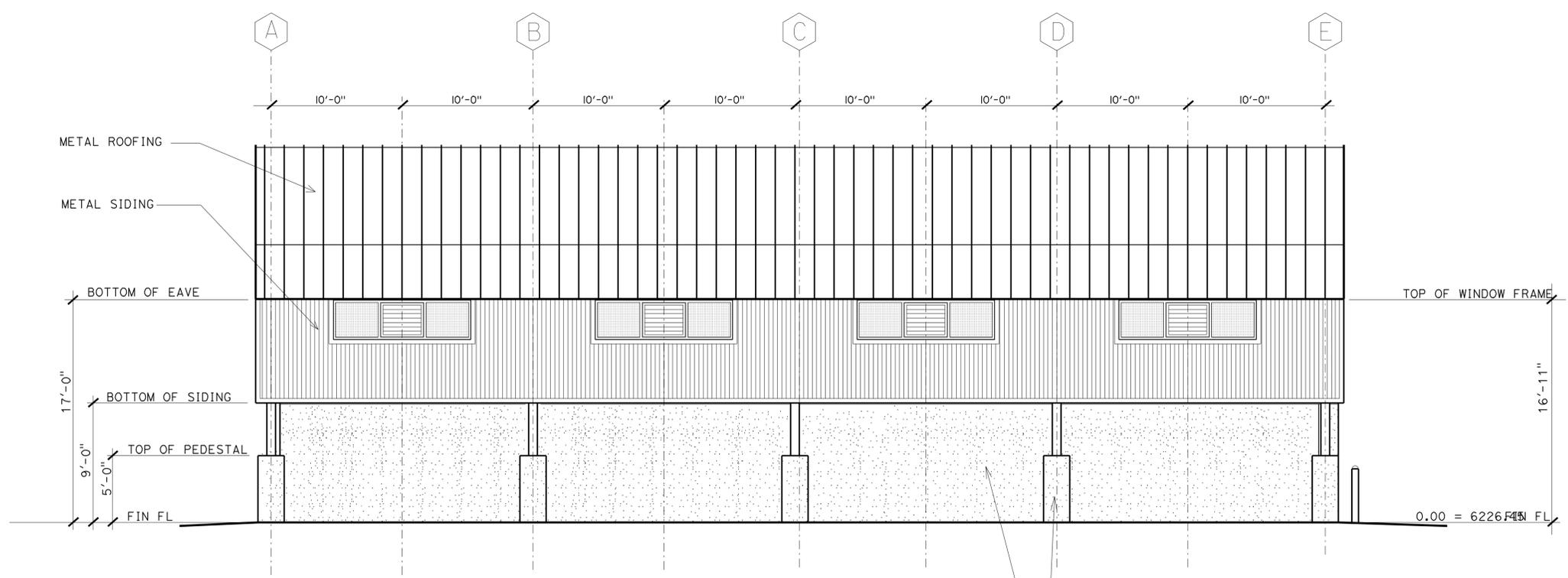
**2 EAST ELEVATION**  
 SCALE: 3/16" = 1'-0"



**3 WALL EXHAUST DETAIL**  
 SCALE: 3/16" = 1'-0"

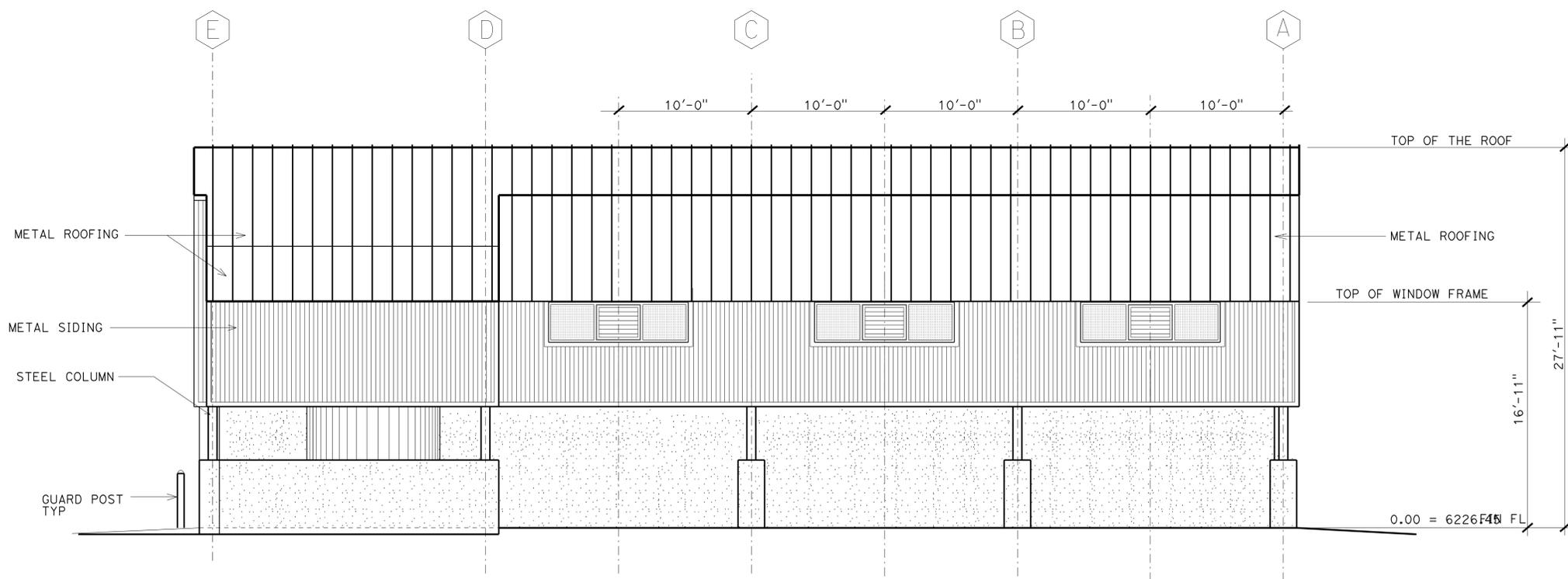
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	DETAILS BY GOFFREDO RIVECCIO CHECKED WARREN LAI	QUANTITIES BY CHECKED	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3582 030002006041 EA 2F280	DISREGARD PRINTS BEARING EARLIER REVISION DATES REVISION DATES (PRELIMINARY STAGE ONLY) - 07	SHEET OF

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Plc	89	8.9	22	46
 LICENSED ARCHITECT			8/9/2011	DATE	
					
2-21-12 PLANS APPROVAL DATE					
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**1 NORTH ELEVATION**  
 SCALE: 3/16" = 1'-0"

ACCESSIBILITY DESIGN APPROVAL STAMP DOT / DES / OTA PROJECT ID <b>03000206041</b>	CALIFORNIA STATE FIRE MARSHAL APPROVED Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
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**2 SOUTH ELEVATION**  
 SCALE: 3/16" = 1'-0"

a1_4.dgn TAEMWW Imperial Rev. 7/10 22-FEB-2012 14:44	CSFM # 01-31-II-0008	DESIGN BY GOFFREDO RIVECCIO CHECKED WARREN LAI	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 19M5727	<b>TAHOE CITY SAND HOUSE</b> BUILDING ELEVATIONS	SHEET OF
		DETAILS BY GOFFREDO RIVECCIO CHECKED WARREN LAI			POST MILE		A1-4
		QUANTITIES BY CHECKED	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3582 030002006041	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF

22-FEB-2012 14:44 a1\_4.dgn

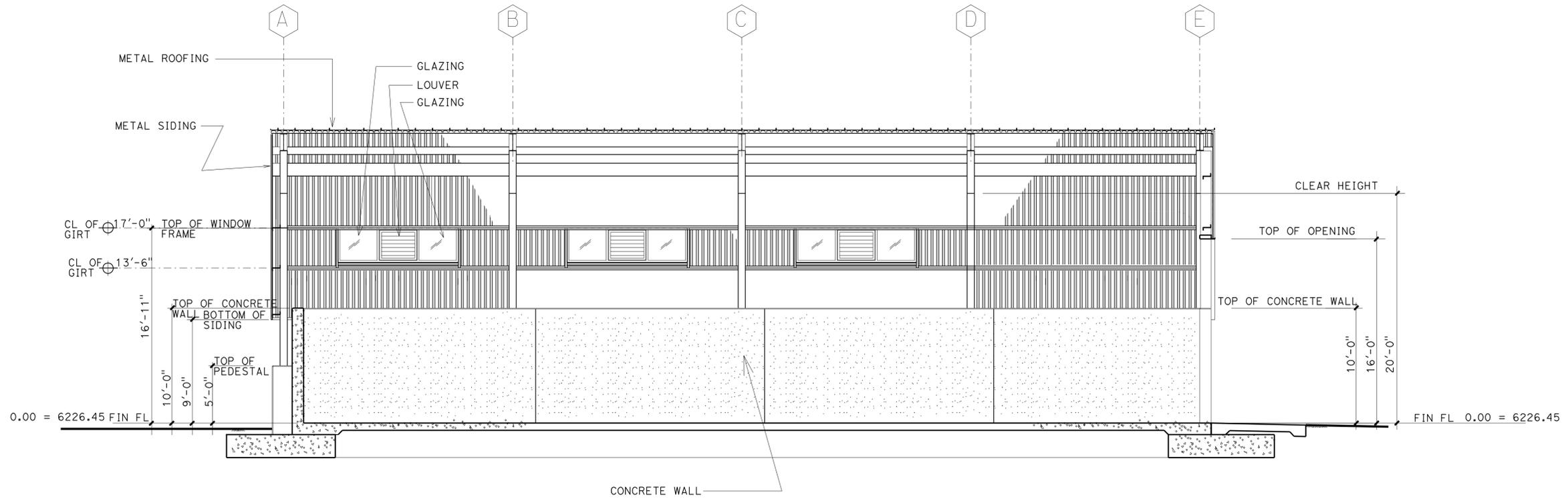
DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Plā	89	8.9	23	46

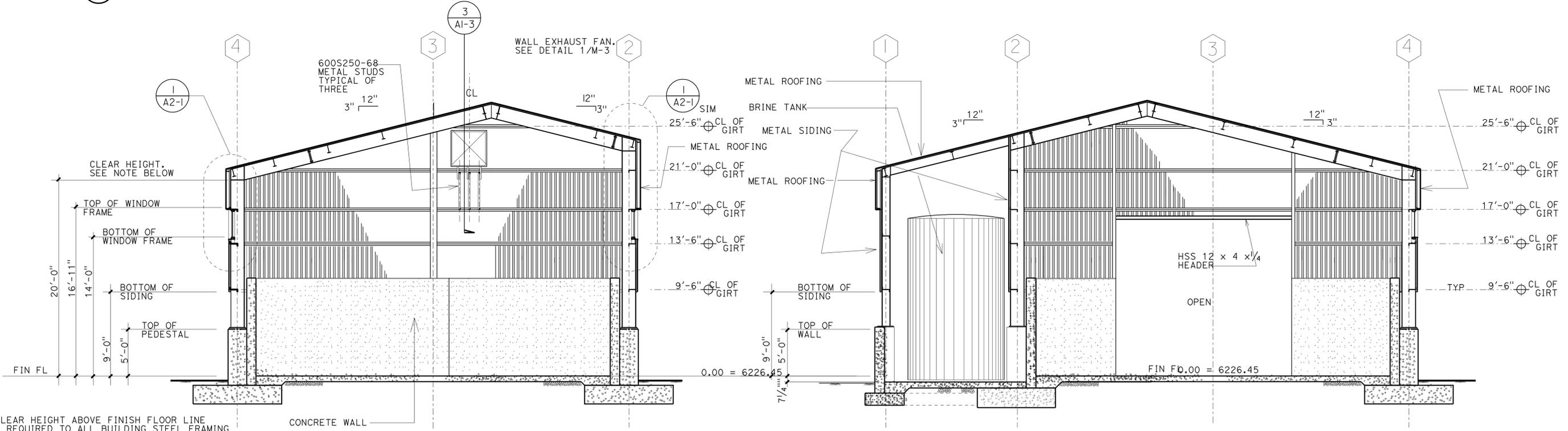
 LICENSED ARCHITECT		8/9/2011 DATE
2-21-12 PLANS APPROVAL DATE		

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Reviewed by:  Y.A. WANG Date: 11/02/11	Reviewed by: _____ Approval date: 12-9-10	



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



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

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

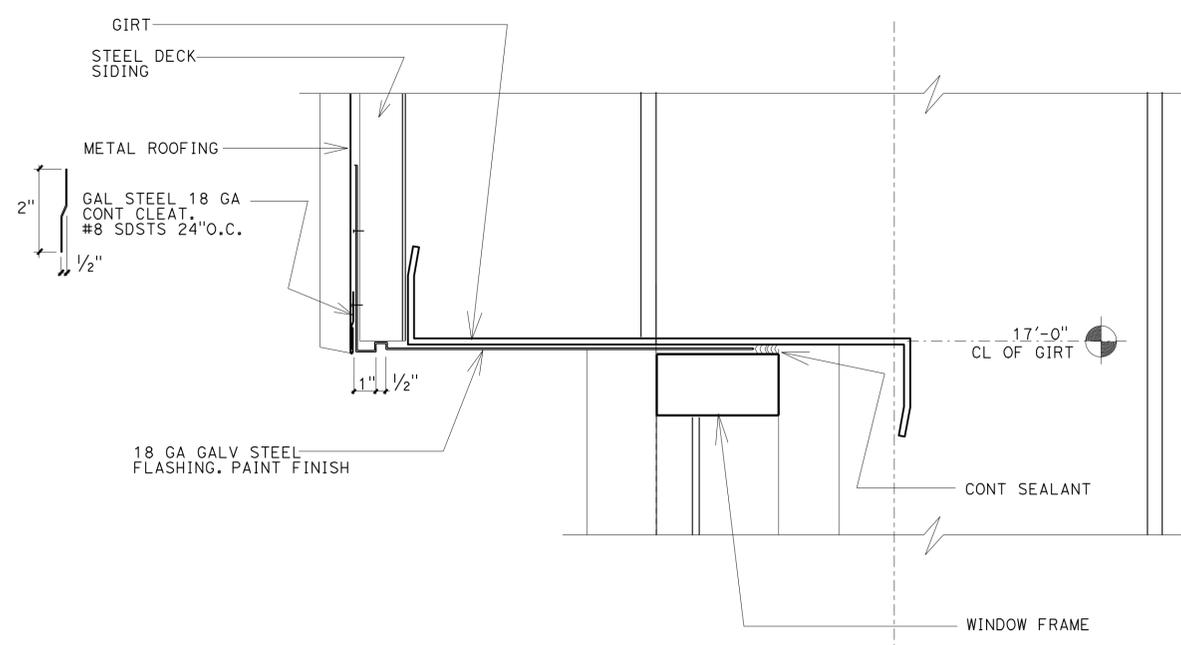
NOTE:  
1 : 20'-0" CLEAR HEIGHT ABOVE FINISH FLOOR LINE (6226.45) IS REQUIRED TO ALL BUILDING STEEL FRAMING ELEMENTS. SHALL NOT BE ANY STEEL ELEMENT BELOW 20'-0" ELEVATION.

DESIGN BY	GOFFREDO RIVECCIO	CHECKED	WARREN LAI	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO.	<b>TAHOE CITY SAND HOUSE</b> BUILDING SECTIONS	SHEET
DETAILS BY	GOFFREDO RIVECCIO	CHECKED	WARREN LAI		ARCHITECTURAL AND STRUCTURAL DESIGN	19M5727		<b>A1-5</b>
QUANTITIES BY		CHECKED				POST MILE		

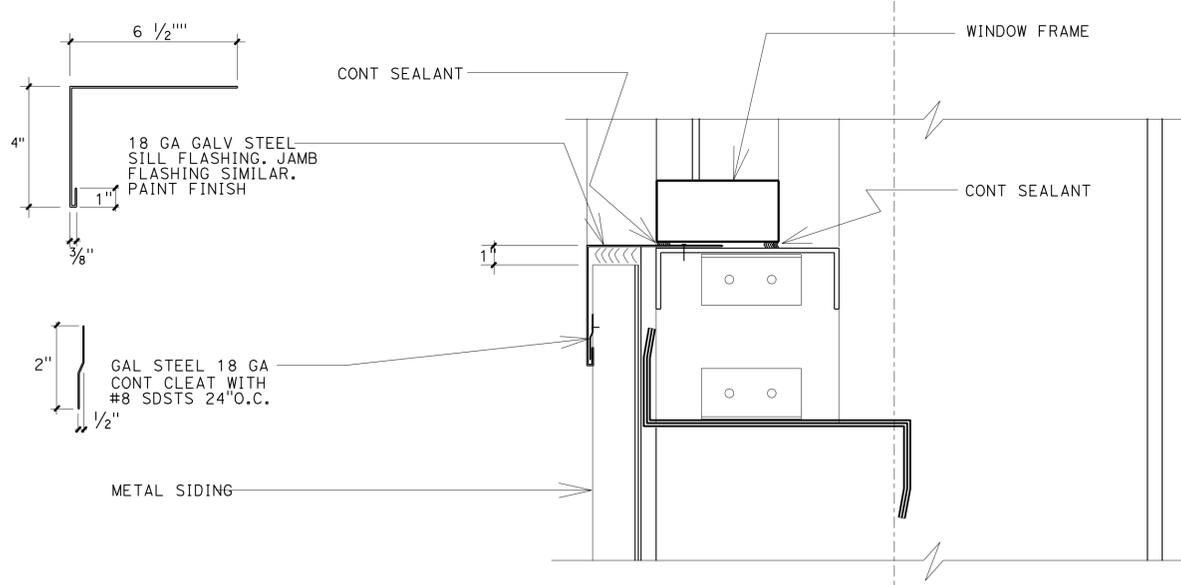
  

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3582 030002006041	DISREGARD PRINTS BEARING EARLIER REVISION DATES REVISION DATES (PRELIMINARY STAGE ONLY) - 07	SHEET OF 23-FEB-2012 15:28 a1_5.dgn
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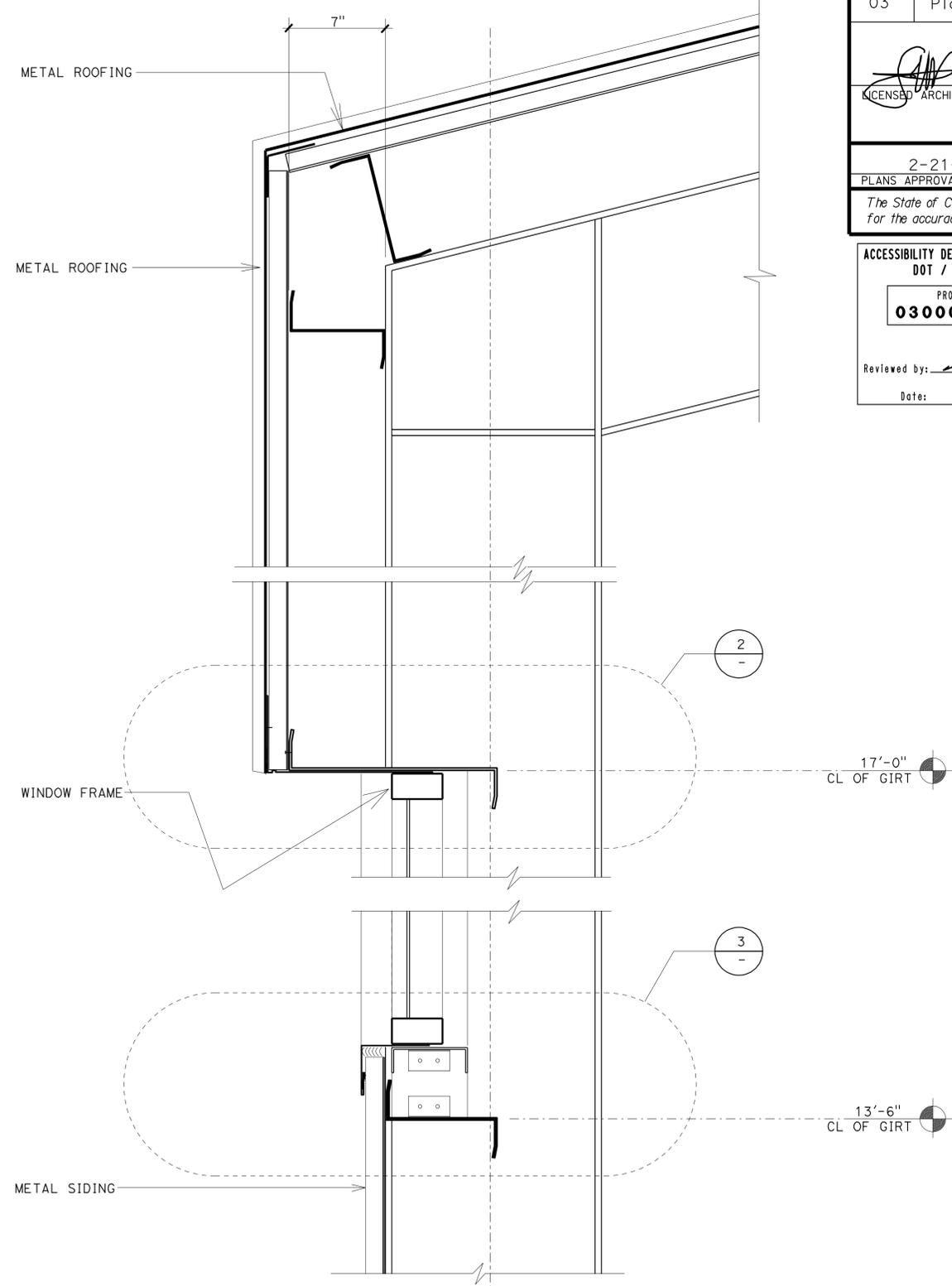
DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Pld	89	8.9	24	46
 LICENSED ARCHITECT			8/9/2011	DATE	
					
2-21-12					
PLANS APPROVAL DATE					
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**2 WINDOW HEAD DETAIL**  
NTS



**3 WINDOW SILL DETAIL (JAMB SIMILAR)**  
NTS



**1 PARTIAL WALL/ROOF SECTION DETAIL**  
NTS

ACCESSIBILITY DESIGN APPROVAL STAMP DOT / DES / OTA		CALIFORNIA STATE FIRE MARSHAL APPROVED	
PROJECT ID <b>03000206041</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:  Y.A. WANG	Reviewed by:  FRANCIS SOLICH	Date: 11/02/11	Approval date: 08-29-11

a2_1.dgn TAEMWW Imper1al Rev. 7/10 22-FEB-2012 14:44	DESIGN BY	GOFFREDO RIVECCIO	CHECKED	WARREN LAI	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 19M5727 POST MILE	<b>TAHOE CITY SAND HOUSE</b> DETAILS	SHEET	<b>A 2 - 1</b>
	DETAILS BY	GOFFREDO RIVECCIO	CHECKED	WARREN LAI		UNIT PROJECT NUMBER & PHASE 3582 030002006041 EA 2F280	DISREGARD PRINTS BEARING EARLIER REVISION DATES →		REVISION DATES (PRELIMINARY STAGE ONLY)	
CSFM # 01-3I-II-0008	QUANTITIES BY		CHECKED		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	- -07			

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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Plca	89	8.9	25	46


 REGISTERED CIVIL ENGINEER  
 DATE 12-1-11



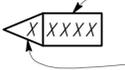
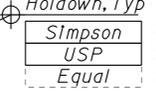
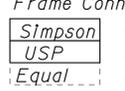
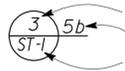
2-21-12  
 PLANS APPROVAL DATE

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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
CFS	Cold-Formed Steel	Mech	Mechanical
CIDH	Cast In Drilled Hole	Mfr	Manufacturer
CJ	Control Joint	mm	Millimeter
Clr	Clear	Min	Minimum
CMU	Concrete Masonry Unit	MIW	Malleable Iron Washer
Conc	Concrete	OC	On Center
Const	Construction	OG	Original Grade
Cont	Continuous	OH	Opposite Hand
CP	Complete Penetration Weld	Opt	Optional
Dbl	Double	P	Pitch
DF	Douglas Fir	PDF	Powder Driven Fastener
Dia	Diameter	Plwd	Plywood
DIP	Ductile Iron Pipe	PT	Pressure Treated
DN	Diameter Nominal	PW	Puddle Weld
do	Ditto	PWB	Prefabricated Wood I Beam
(E)	Existing	RCP	Reinforced Concrete Pipe
Ea	Each	Reinf	Reinforced, Reinforcing
EL	Elevation	Req'd	Required
Elec	Electrical	Sim	Similar
Embed	Embedment	SPS	Structural Plywood Sheathing
EN	Edge Nail	Sq	Square
Eq	Equal	Stagg	Staggered
Exp	Expansion	Std	Standard
FDGM	Free Draining Granular Material	SW	Stud Weld
FG	Finish Grade	Sym	Symmetrical
FL	Flow Line	T&G	Tongue-and-Groove
Fir	Floor	TN	Toe Nail
FN	Face (Field) Nail	TS	Tube Steel
FOC	Face of Concrete	Typ	Typical
FOM	Face of Masonry	UON	Unless Otherwise Noted
FOS	Face of Stud	Vert	Vertical
FS	Framing Screw		
Ftg	Footing		
Ga	Gage		
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

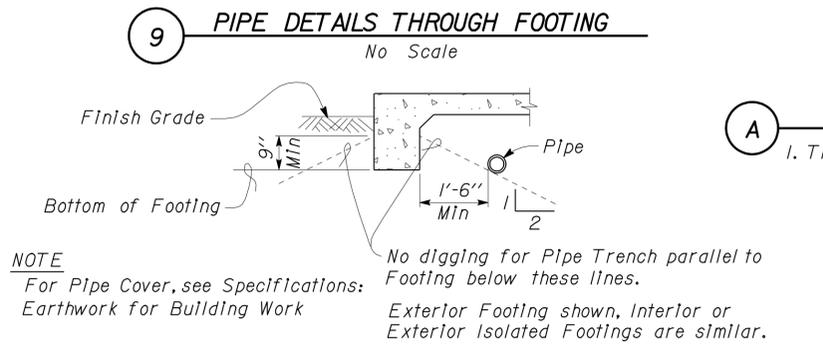
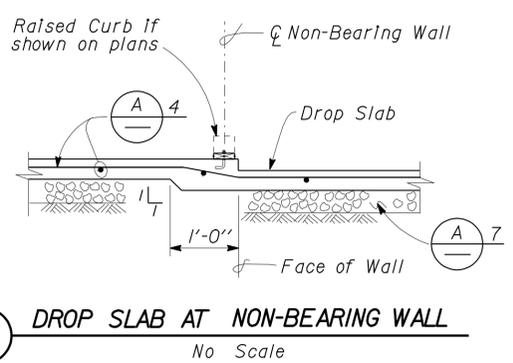
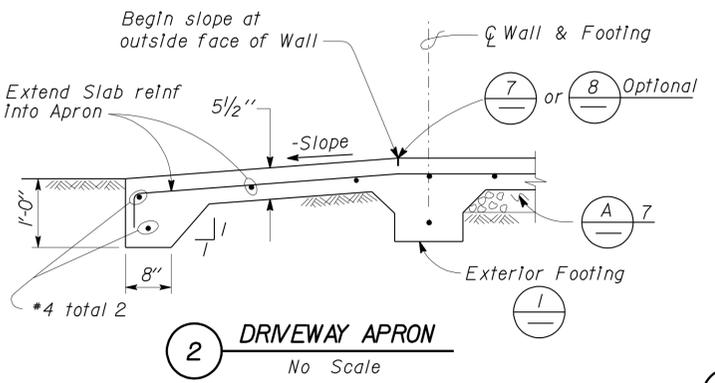
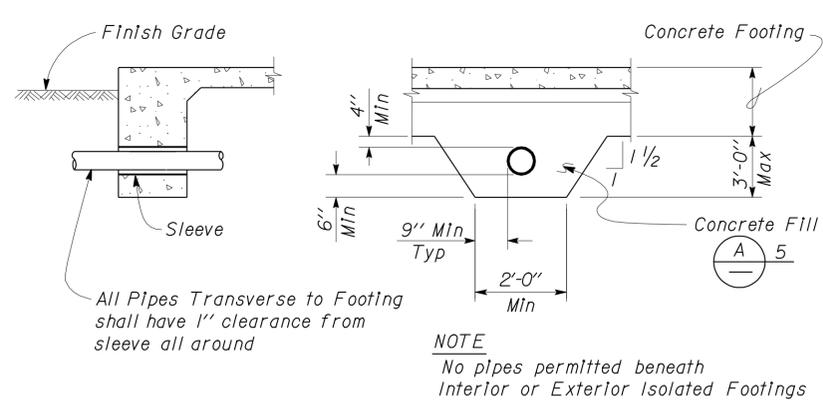
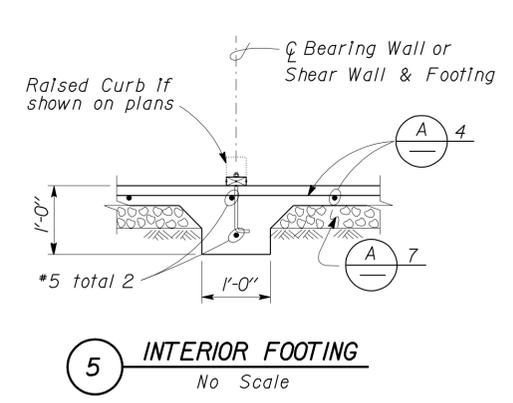
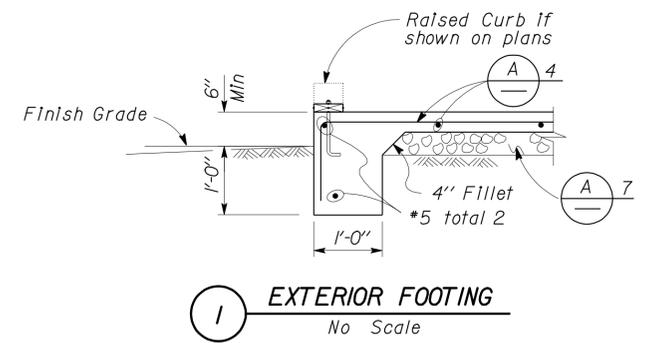
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ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3								UNIT PROJECT NUMBER & PHASE 3599 03000206041		DISREGARD PRINTS BEARING EARLIER REVISION DATES 08-09-11				REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF			

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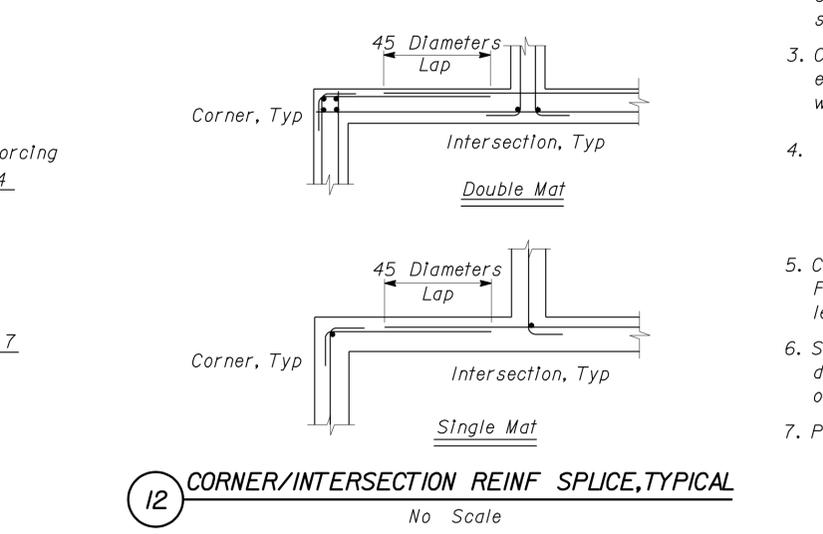
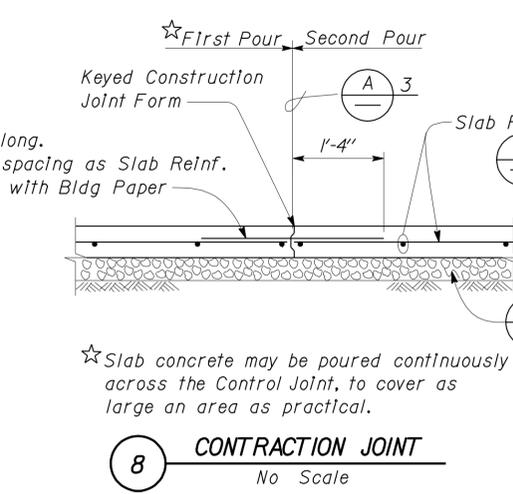
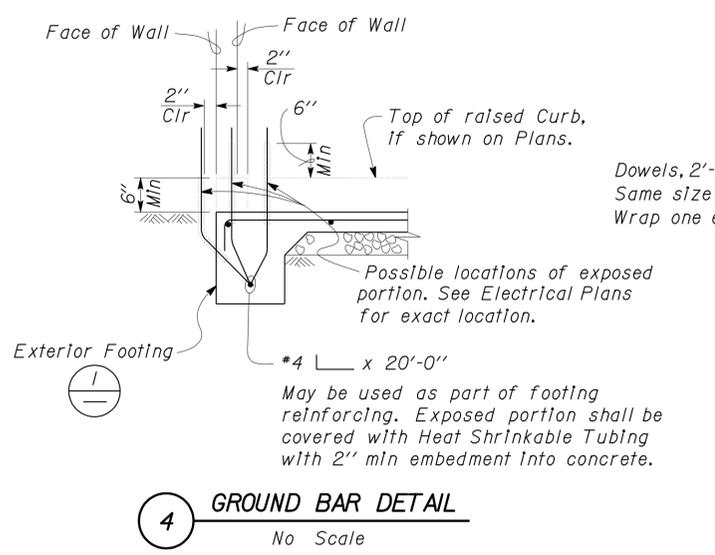
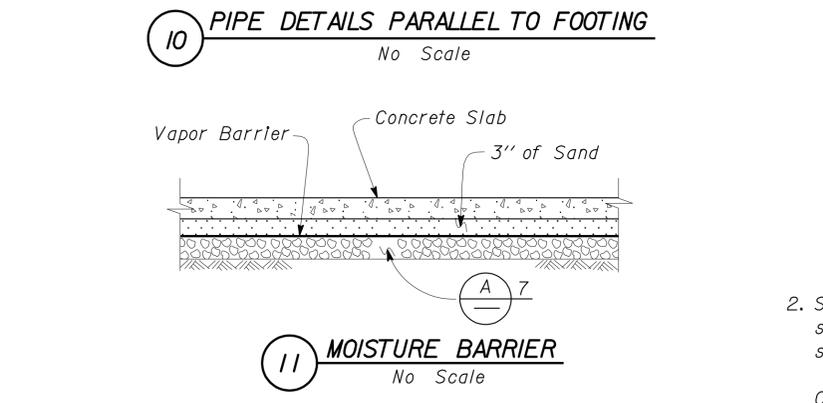
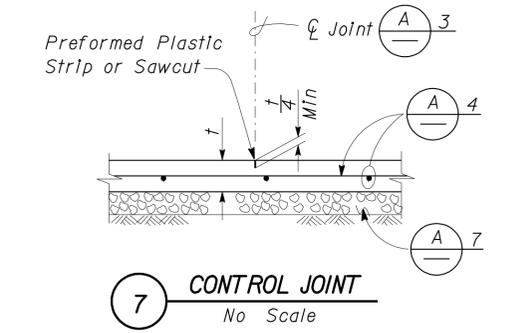
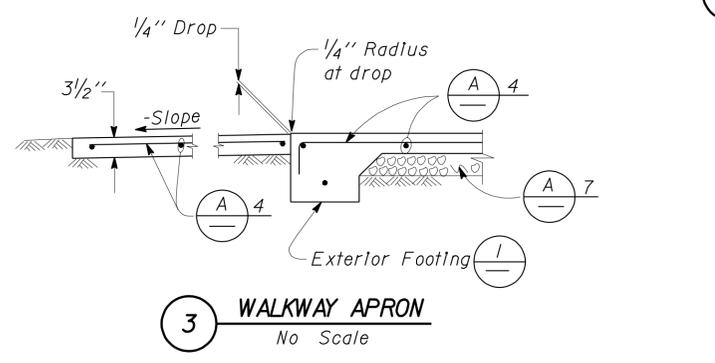
REGISTERED CIVIL ENGINEER 12-1-11 2-21-12 PLANS APPROVAL DATE	
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**CONCRETE NOTES**

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 Sean Seavel	CHECKED Steve Standa	APPROVED R.E. Travis	STATE OF CALIFORNIA	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 19M5727	TAHOE CITY SAND HOUSE		SHEET ST-2
DRAWING DATE 1-04	DETAILS BY Peter F. von Jauch	CHECKED [Signature]	DESIGN SUPERVISOR	DEPARTMENT OF TRANSPORTATION	ARCHITECTURAL AND STRUCTURAL DESIGN	POST MILE	CONCRETE STANDARD		
DATE: 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 03000206041	DISREGARD PRINTS BEARING EARLIER REVISION DATES 08-09-11	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Plac	89	8.9	27	46

<i>Thomas Reich</i>	12-1-11	
REGISTERED CIVIL ENGINEER	DATE	
2-21-12		
PLANS APPROVAL DATE		
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**A GENERAL DESIGN NOTES**

**1. CRITERIA**

**BUILDING CODE:**

2010 California Building Code as Adopted by the California Building Standards Commission

OCCUPANCY CATEGORY: I

**2. MATERIALS**

**REINFORCED CONCRETE:** (Strength Design)

$f'c = 3,000 \text{ psi}$   
 $f_y = 60,000 \text{ psi}$

**3. FOUNDATION**

Soils report dated : June 16, 2011  
 Allowable Soil Pressure: 3,000 psf Vertical  
 150 psf/ft Lateral

**D GENERAL NOTES**

- For Concrete, see ST-2.
- All bolts shall be hex head machine bolts, with hex head nuts; unless otherwise noted.
- All lock washers shall be helical spring lock washers.
- Where shown on the Plans, Miscellaneous Metal shall be hot-dip galvanized after fabrication.
- All reinforcing bars shall be epoxy coated or galvanized except ground bars.
- The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

**B DESIGN LOADS**

**1. LIVE**

Roof = 20 psf

**2. SEISMIC**

Importance Factor = 1.0  
 Site Class = D  
 Mapped Spectral Response Accelerations:  
 $S_S = 1.208$        $S_I = 0.439$   
 Design Spectral Response Coefficients:  
 $S_{DS} = 0.819$        $S_{DI} = 0.457$   
 Design Category = D  
 Analysis Procedure: Equivalent Lateral Force

**Seismic Force-Resisting System:**

<u>North - South</u>	<u>East - West</u>
OMF	Braced Frame
$R = 3.5$	$R = 3.25$
$C_S = 0.234$	$C_S = 0.252$

**3. WIND**

Importance Factor = 0.87  
 Basic Wind Speed = 100 mph (3 sec gust)  
 Exposure C  
 Analysis Procedure: Partially Enclosed

**3. SNOW**

Ground:  $P_g = 250 \text{ psf}$   
 $P_f = 151 \text{ psf}$   
 $C_e = .9$      $C_f = 1.2$      $I = 0.8$

**A PRE-ENGINEERED BUILDING DESIGN NOTES**

- Rigid Frames shall be provided at lines **A** through **E**
- Braced Frames shall be provided at lines **2** and **4** between **B** and **C** and between **C** and **D**
- For General Design Notes, see **A**
- For Design Loads, see **B**
- Collateral Loads shall include :  
 Brine Tank Enclosure  
 Exhaust Fan
- Deflection Limits :  
 Story drift =  $H/100$   
 Framing Members =  $L/180$   
 Roof Panels and Purlins =  $L/240$
- Maximum Roof Purlin spacing shall be 5'-0" OC.
- Provide Framing for all Wall and Roof Penetrations.
- Girts shall be the Exterior Type at Lines **A**, **D** and **E**
- Girts shall be the Flush Type at Lines **1**, **2** and **4**
- Anchor bolts shown are minimum. Builder shall follow building manufacturer requirements.
- The building design shall not transmit moment to the footings.

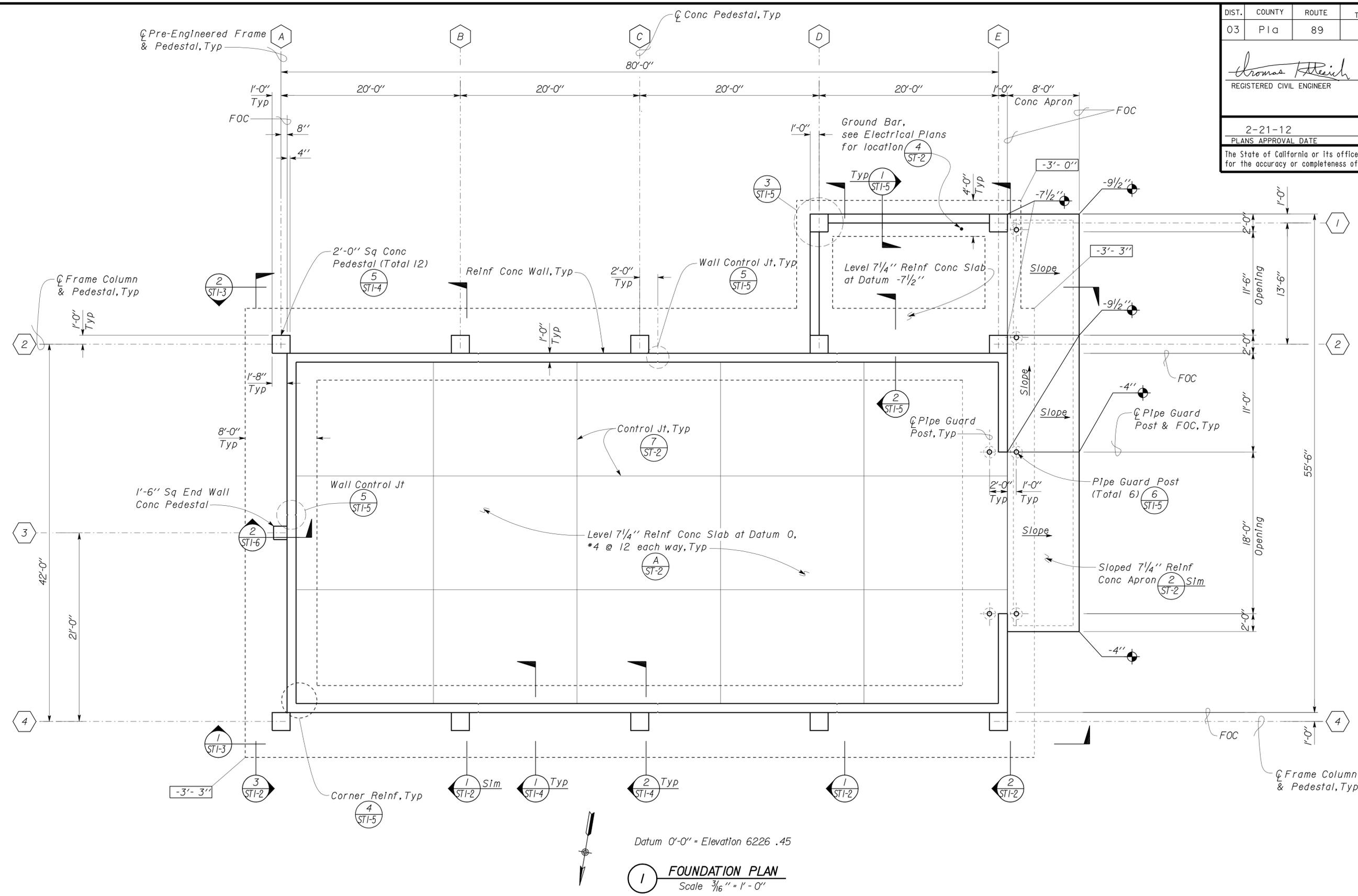
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	DETAILS	BY	P. von Savoye	CHECKED			Dai Lu	POST MILE			OF									
QUANTITIES	BY		CHECKED		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0	1	2	3	UNIT PROJECT NUMBER & PHASE	3599 03000206041	DISREGARD PRINTS BEARING EARLIER REVISION DATES	08-09-11	REVISION DATES (PRELIMINARY STAGE ONLY)						

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Pl	89	8.9	28	46

REGISTERED CIVIL ENGINEER  
 DATE 12-1-11  
 Tom R. Mesich  
 No. 46748  
 Exp. 6-30-13  
 CIVIL  
 STATE OF CALIFORNIA

2-21-12  
 PLANS APPROVAL DATE

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DESIGN	BY Tom Mesich	CHECKED Dai Lu
DETAILS	BY P. von Savoye	CHECKED Dai Lu
QUANTITIES	BY	CHECKED

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

BRIDGE NO.	19M5727	TAHOE CITY SAND HOUSE
POST MILE		
FOUNDATION PLAN		SHEET OF
		ST1-1

TAEMWW Imperial Rev. 7/10

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

UNIT PROJECT NUMBER & PHASE 3599 03000206041

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
08-09-11 09-07-11 10-07-11 11-17-11	

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Plac	89	8.9	29	46

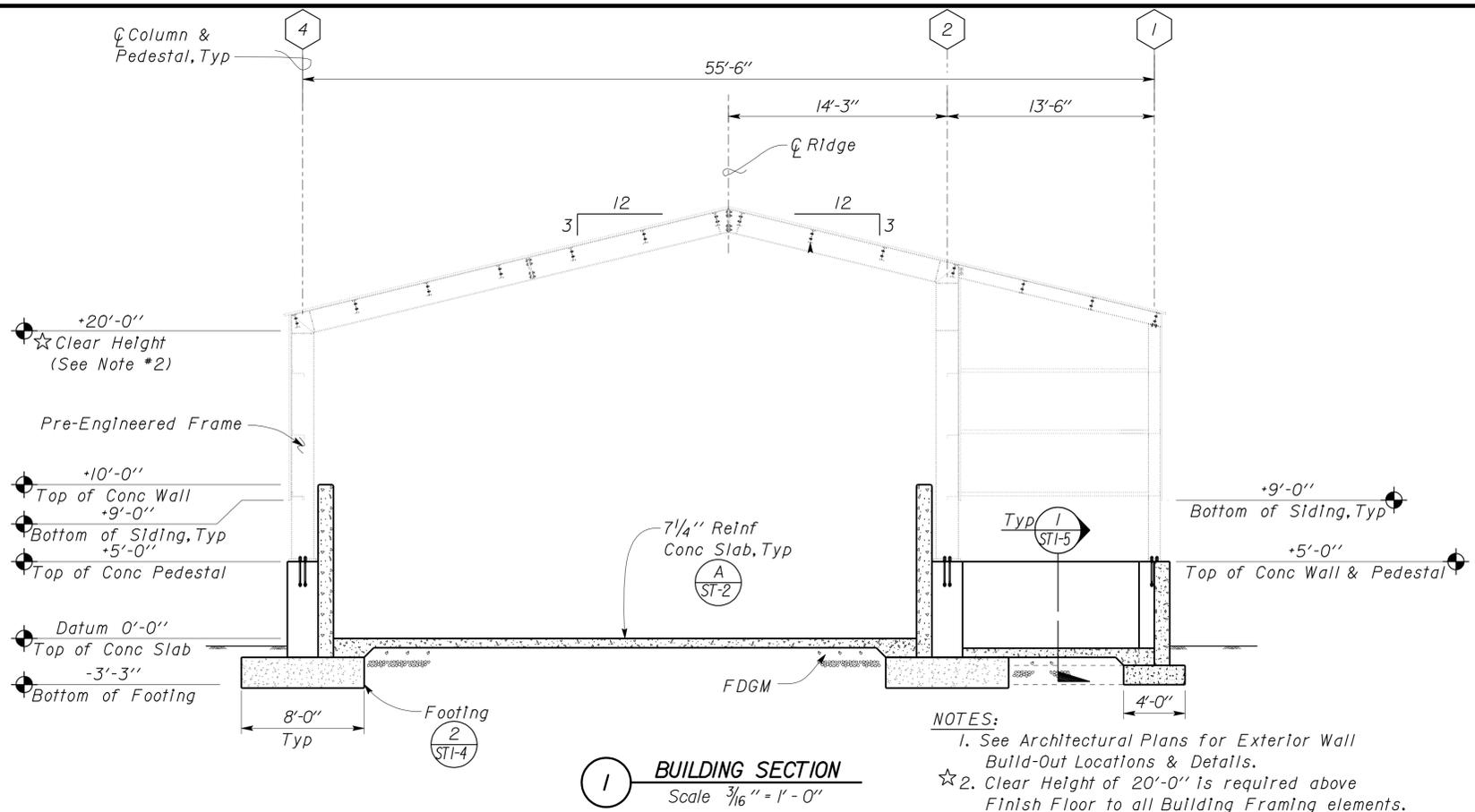
<i>Thomas Reich</i>	12-1-11
REGISTERED CIVIL ENGINEER	DATE

2-21-12
PLANS APPROVAL DATE

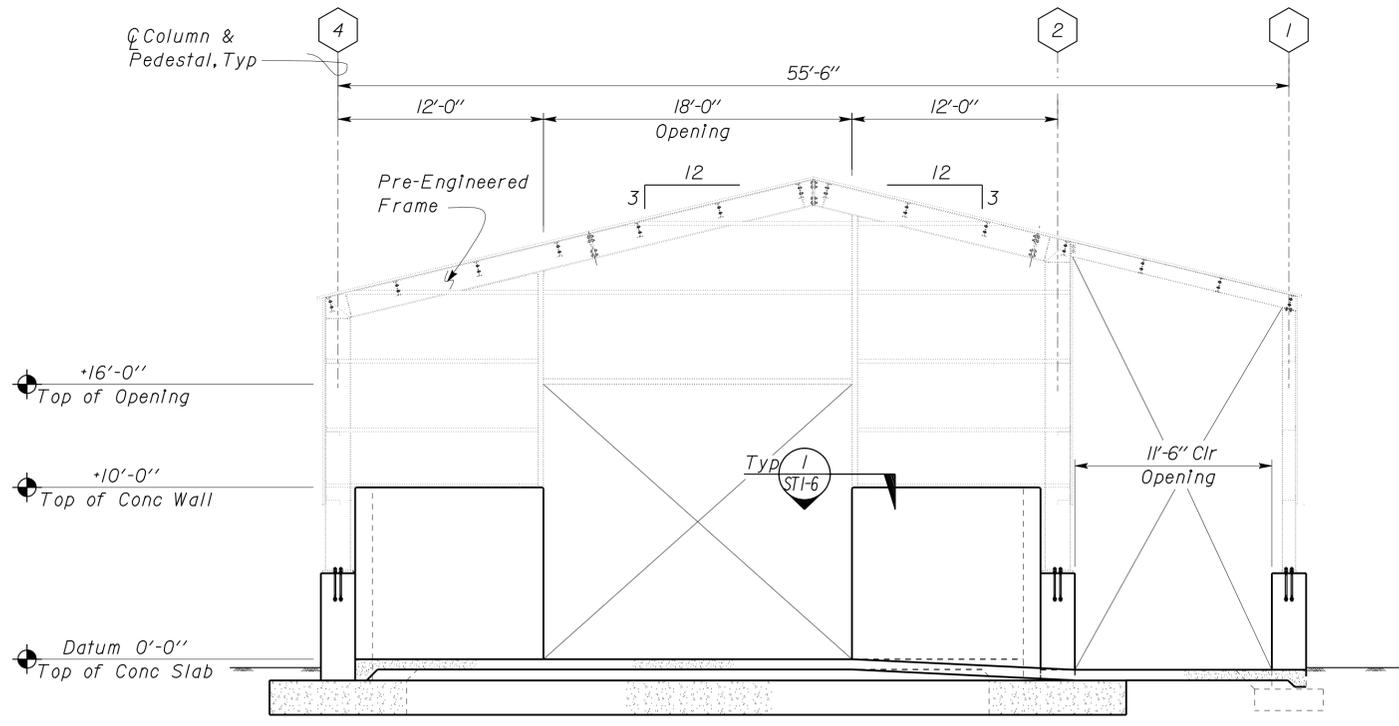
  

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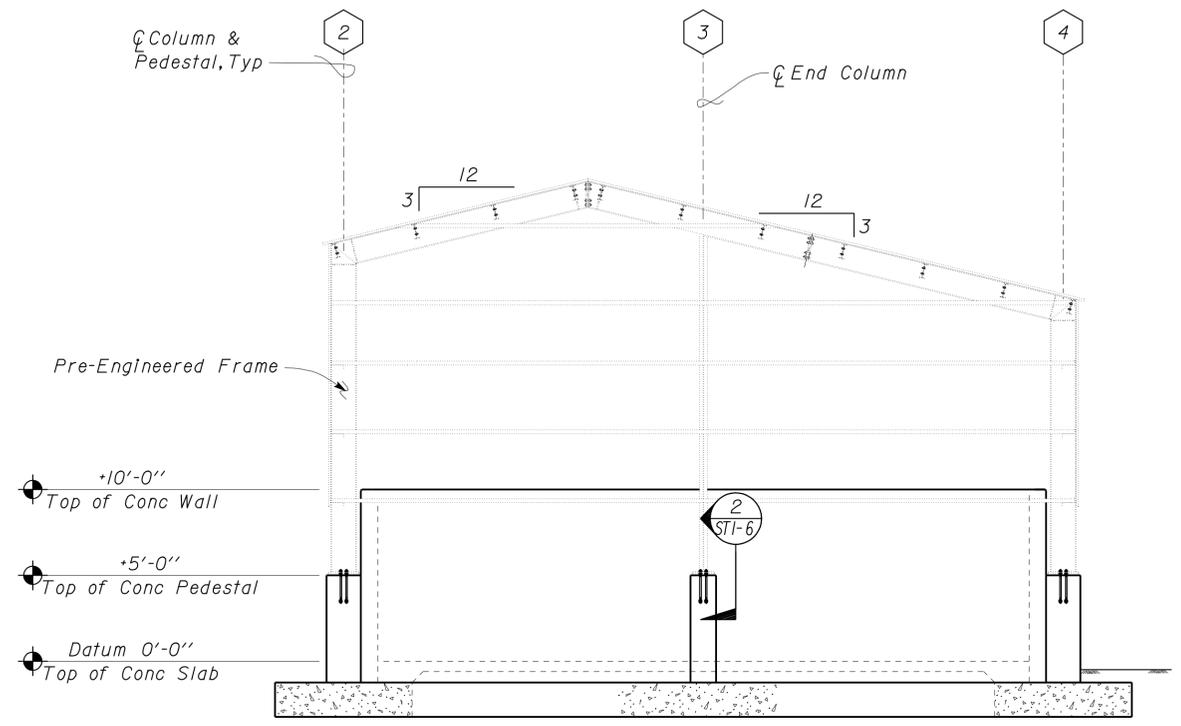
**1 BUILDING SECTION**  
Scale 3/16" = 1'-0"

NOTES:  
1. See Architectural Plans for Exterior Wall Build-Out Locations & Details.  
2. Clear Height of 20'-0" is required above Finish Floor to all Building Framing elements.



**2 WEST ELEVATION**  
Scale 3/16" = 1'-0"

NOTES:  
1. For Dimensions & Details not shown, see (1) Sim  
2. See Architectural Plans for Exterior Wall Build-Out Locations & Details.

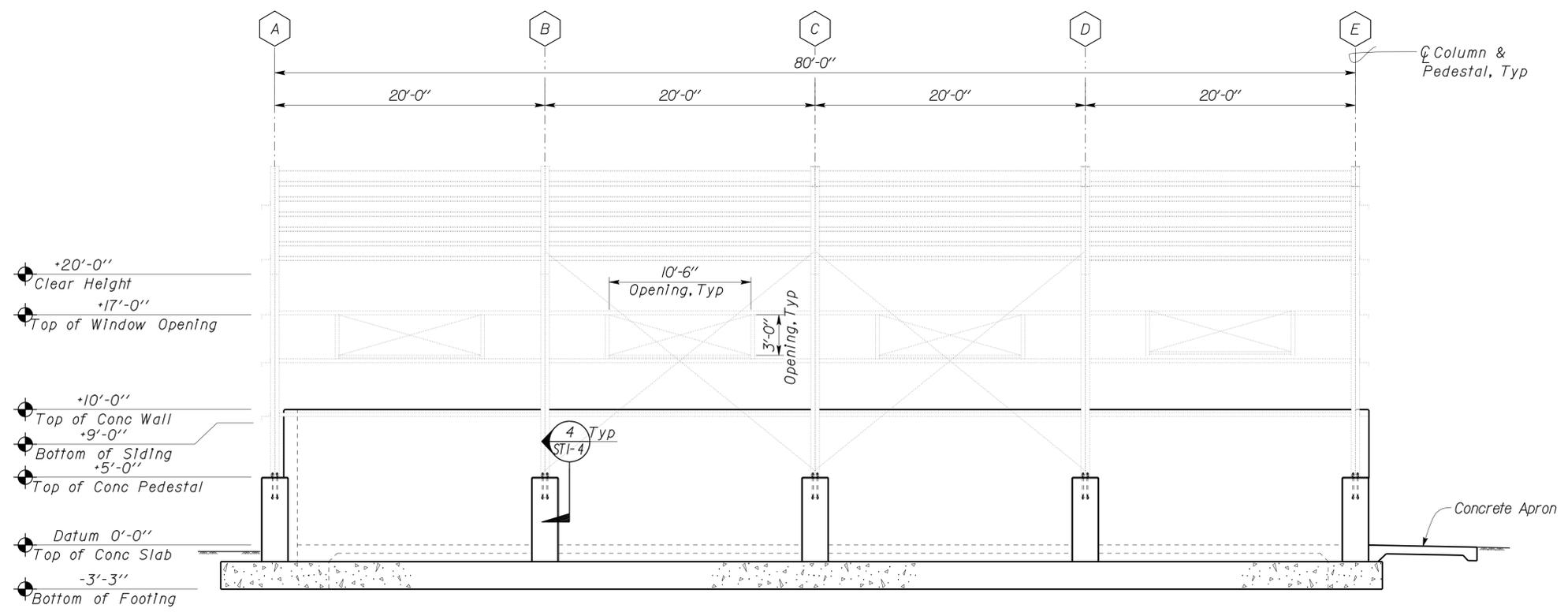


**3 EAST ELEVATION**  
Scale 3/16" = 1'-0"

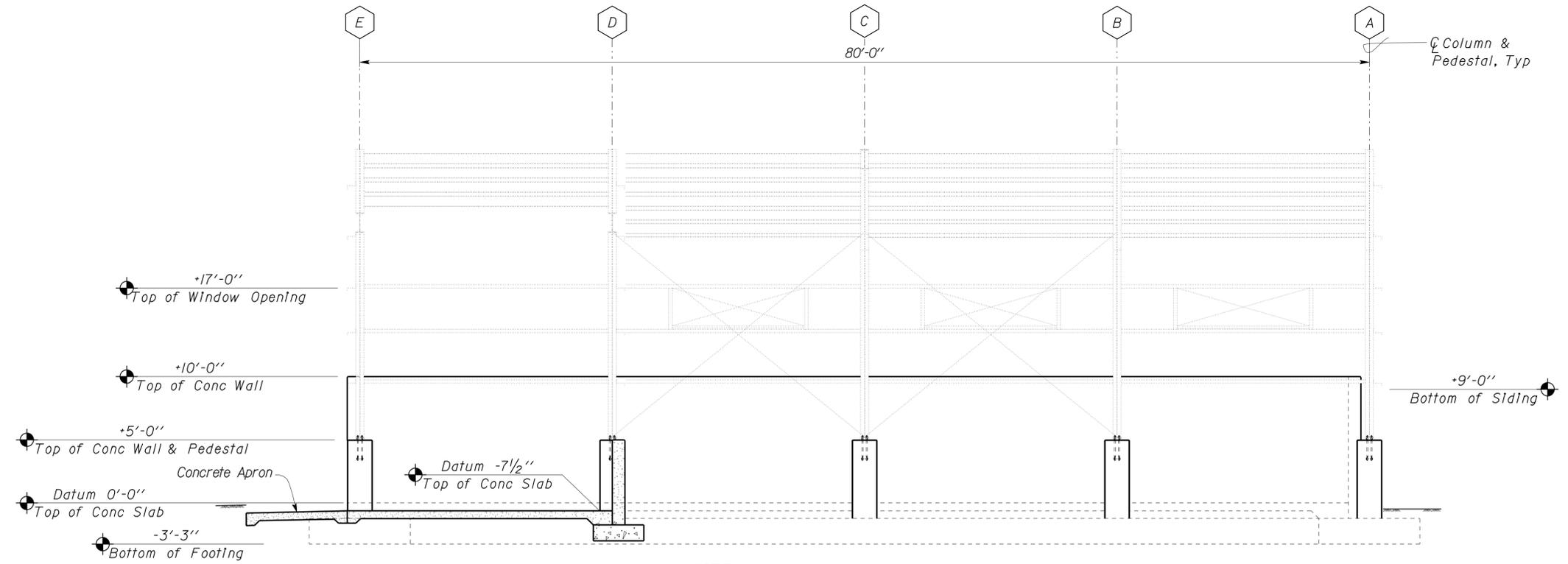
NOTES:  
1. For Dimensions & Details not shown, see (1) Sim & (2) Sim  
2. See Architectural Plans for Exterior Wall Build-Out Locations & Details.

DESIGN BY Tom Mesich	CHECKED Dai Lu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO.	TAHOE CITY SAND HOUSE	SHEET ST1-2
				19M5727		
DETAILS BY P. von Savoye	CHECKED Dai Lu			POST MILE	BUILDING SECTION AND ELEVATIONS	
QUANTITIES BY	CHECKED					
TAEMWW Imperial Rev. 7/10	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	UNIT PROJECT NUMBER & PHASE 3599 03000206041	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
					08-09-11 09-07-11 11-17-11	

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Plac	89	8.9	30	46
<i>Thomas Reich</i> REGISTERED CIVIL ENGINEER			12-1-11 DATE	REGISTERED PROFESSIONAL ENGINEER Tom R. Mesich No. 46748 Exp. 6-30-13 CIVIL STATE OF CALIFORNIA	
2-21-12 PLANS APPROVAL DATE					
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1 NORTH ELEVATION  
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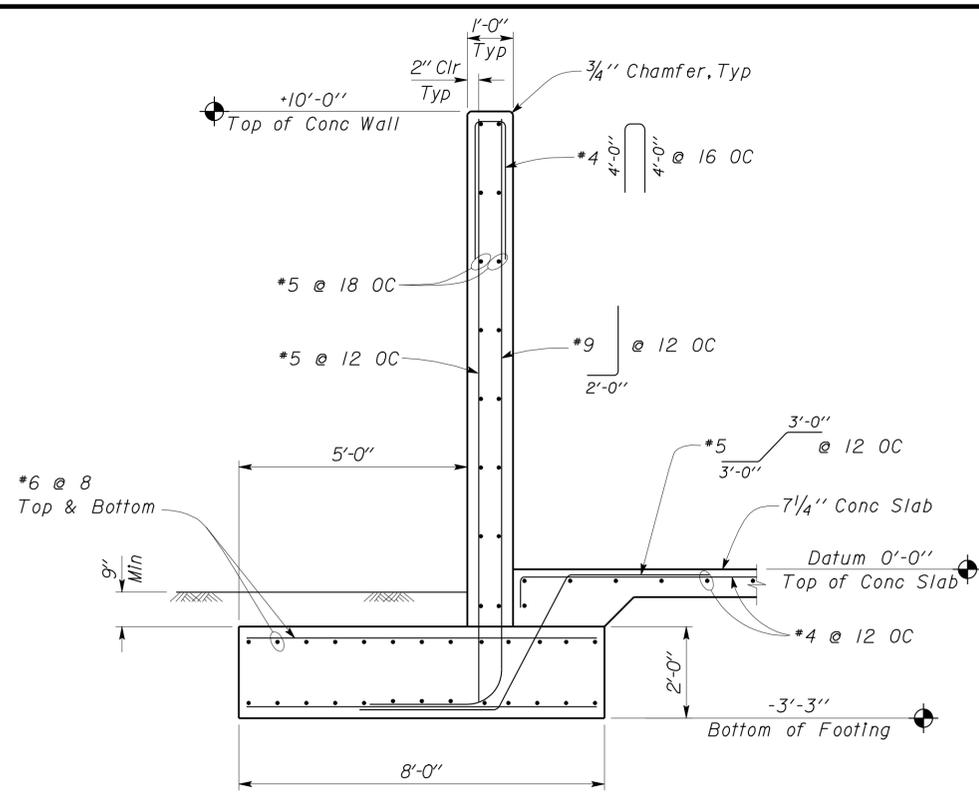


NOTE:  
For Details & Dimensions not shown, see (1) S1m

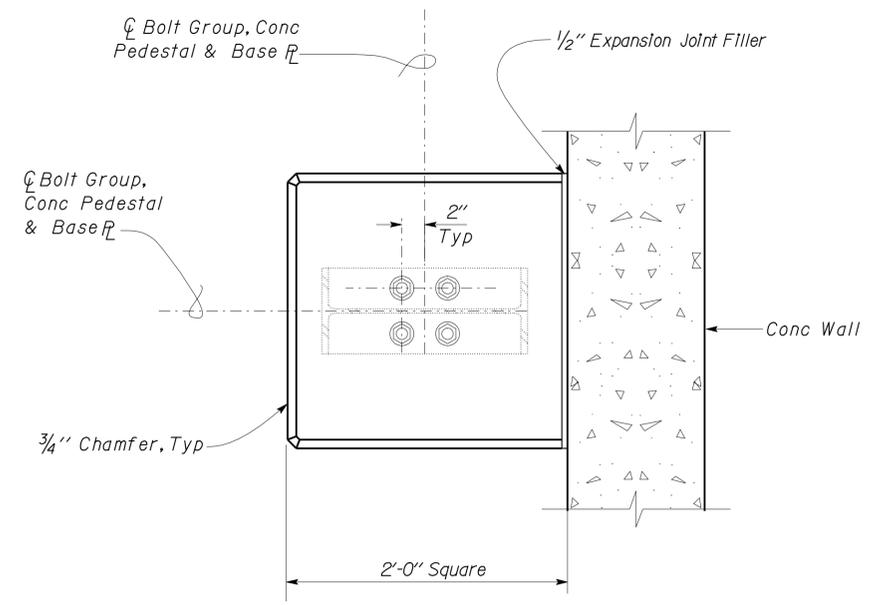
2 SOUTH ELEVATION  
Scale 3/16" = 1'-0"

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				POST MILE		
DETAILS BY P. von Savoye	CHECKED Dai Lu	UNIT PROJECT NUMBER & PHASE 3599 03000206041	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF
QUANTITIES BY	CHECKED	EA	08-09-11 09-07-11			

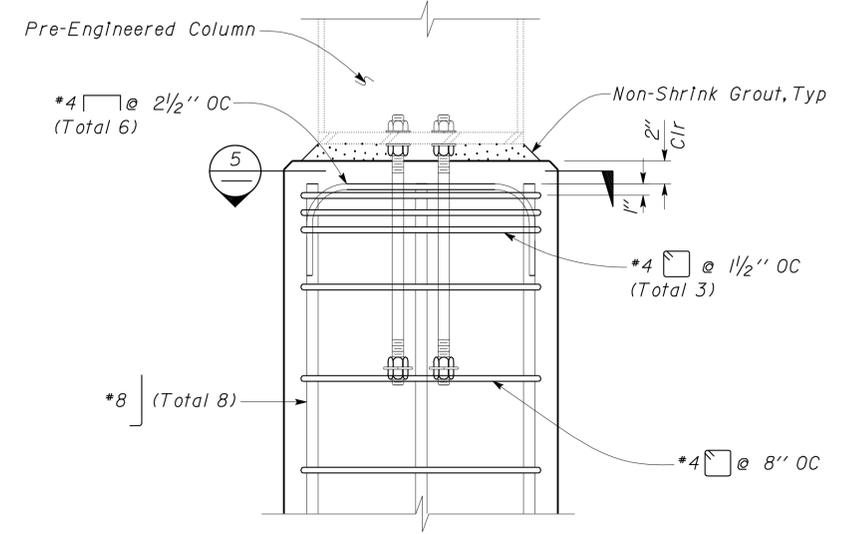
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03	Plac	89	8.9	31	46
<i>Thomas Reich</i> REGISTERED CIVIL ENGINEER			12-1-11 DATE		
2-21-12 PLANS APPROVAL DATE					
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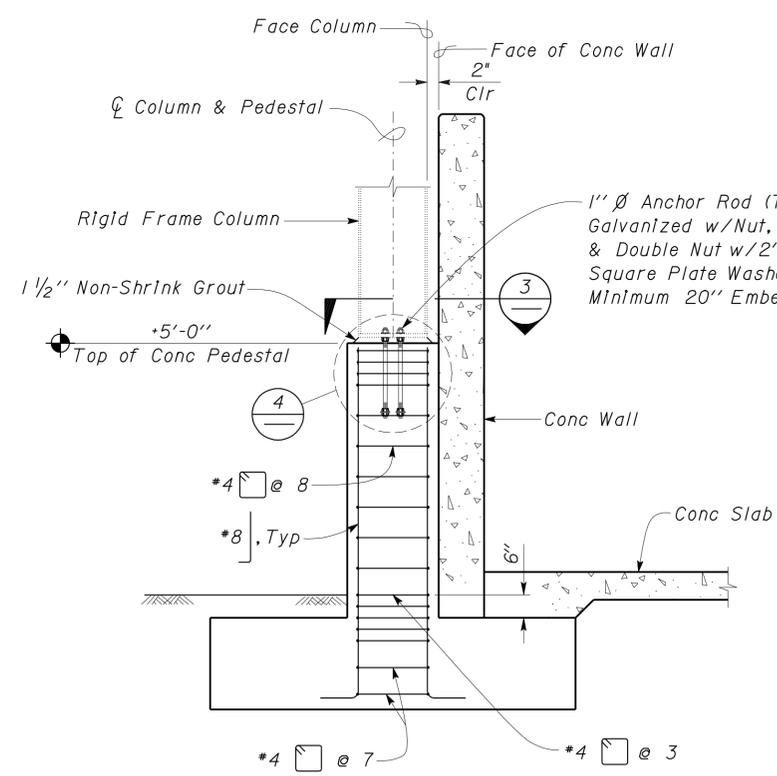
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Scale 1/2" = 1'-0"



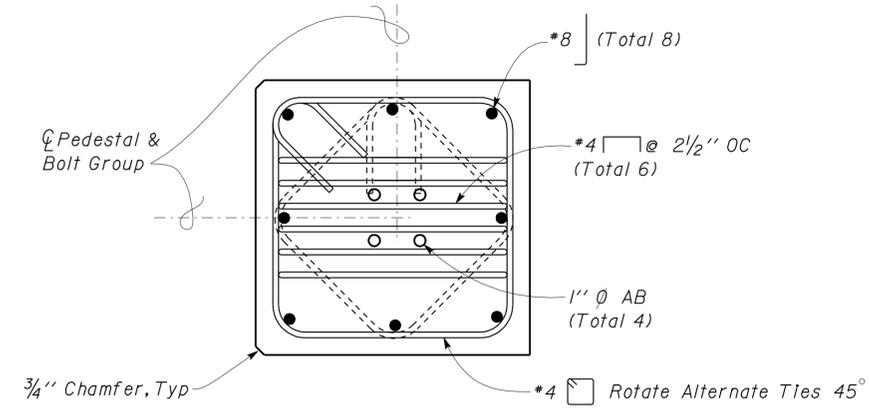
**3 PEDESTAL PLAN**  
Scale 2" = 1'-0"



**4 PEDESTAL REINFORCEMENT ELEVATION**  
Scale 1/2" = 1'-0"



**2 PEDESTAL SECTION**  
Scale 1/2" = 1'-0"



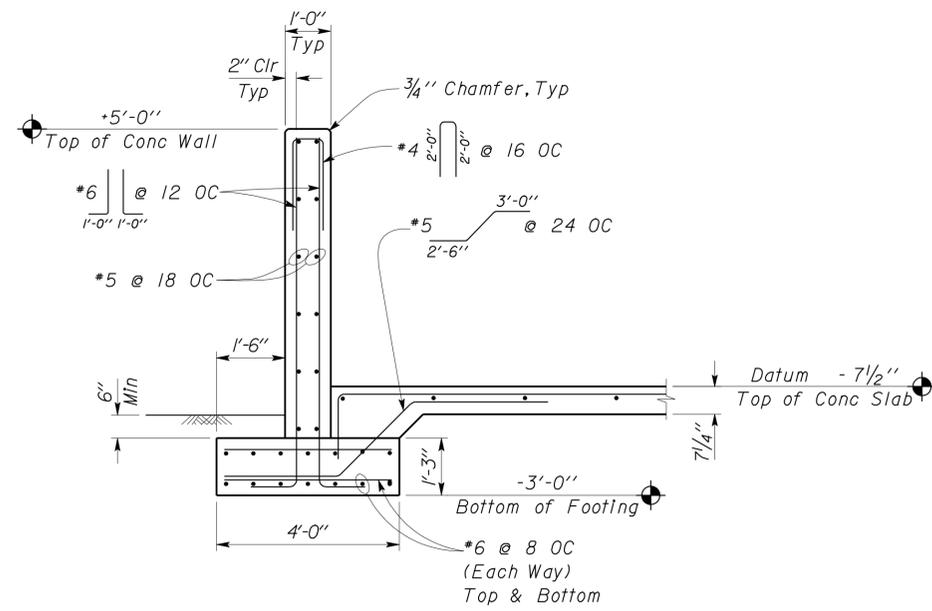
**5 PEDESTAL REINFORCEMENT PLAN**  
Scale 1/2" = 1'-0"

DESIGN	BY Tom Mesich	CHECKED Dai Lu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 19M5727	<b>TAHOE CITY SAND HOUSE</b> FOUNDATION AND PEDESTAL DETAILS	SHEET <b>ST1-4</b>
DETAILS	BY P. von Savoye	CHECKED Dai Lu		ARCHITECTURAL AND STRUCTURAL DESIGN	POST MILE		REVISION DATES (PRELIMINARY STAGE ONLY)
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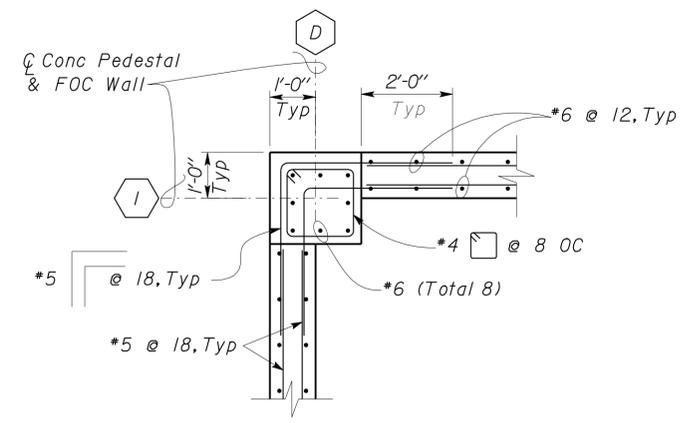
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Plca	89	8.9	32	46

Thomas Reich 12-1-11  
 REGISTERED CIVIL ENGINEER DATE  
 Tom R. Mesich No. 46748  
 Exp. 6-30-13  
 CIVIL ENGINEER  
 STATE OF CALIFORNIA  
 2-21-12  
 PLANS APPROVAL DATE

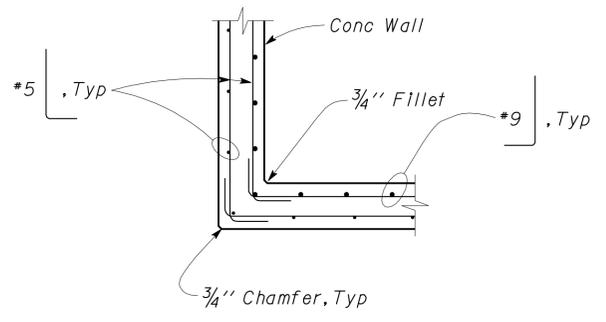
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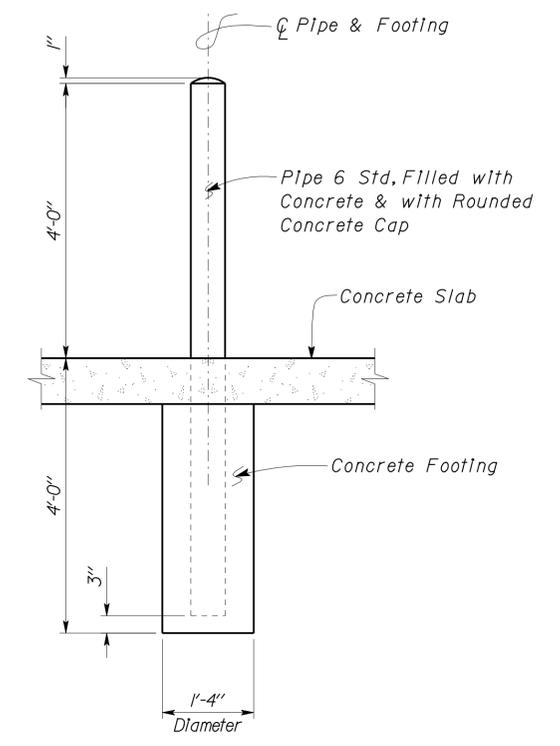
**1 CONCRETE WALL SECTION**  
Scale 1/2" = 1'-0"



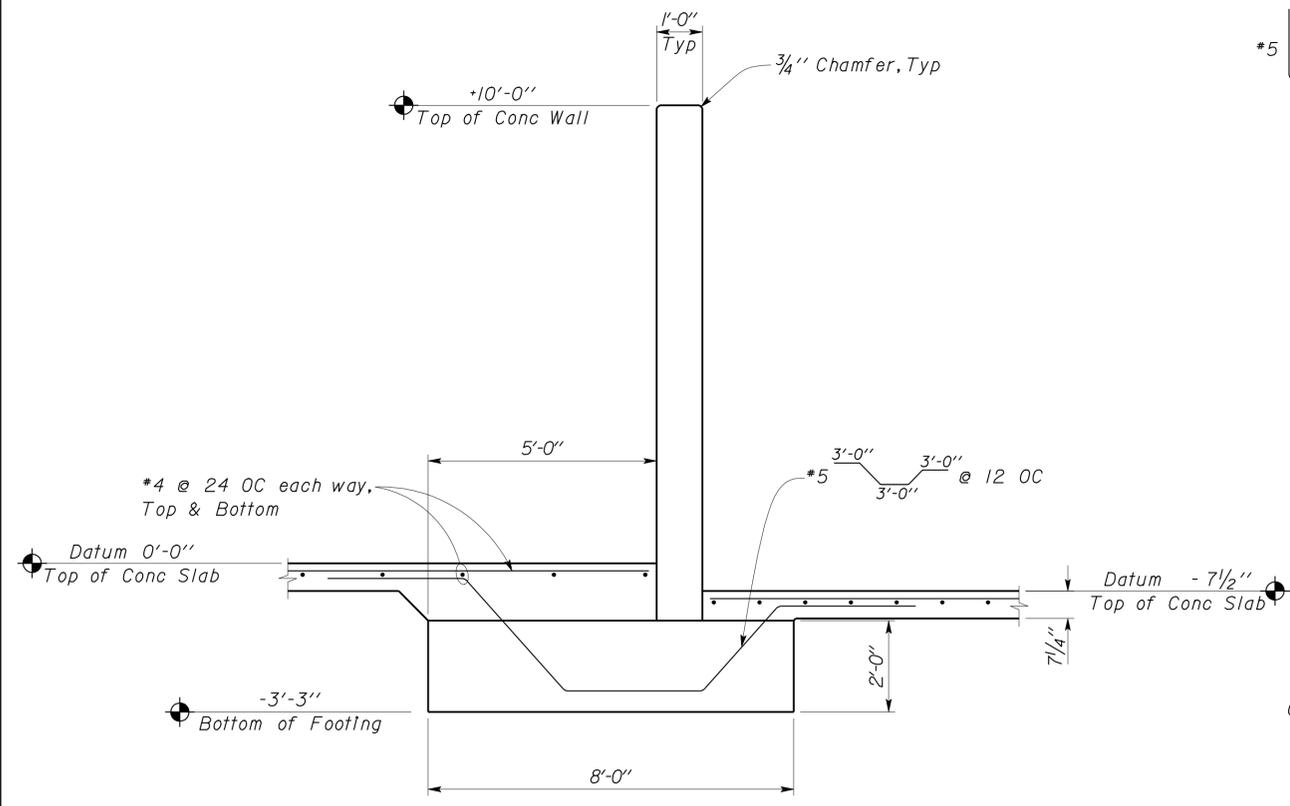
**3 CONCRETE WALL SECTION**  
Scale 1/2" = 1'-0"



**4 CONCRETE WALL CORNER SECTION**  
Scale 1" = 1'-0"

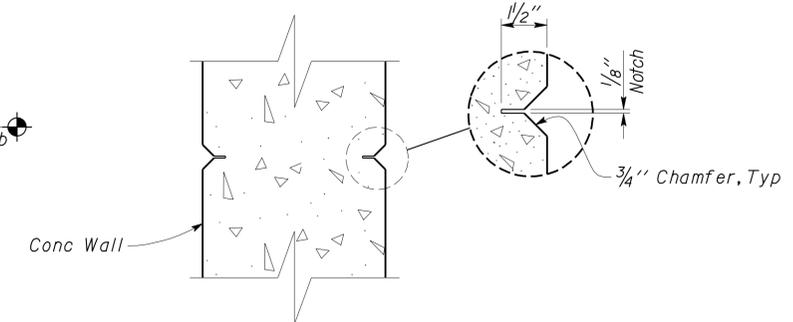


**6 PIPE GUARDPOST DETAIL**  
Scale 3/4" = 1'-0"



NOTE: For Details & Reinforcement not shown, see (1) Sim

**2 CONCRETE WALL SECTION**  
Scale 1/2" = 1'-0"



NOTE: Control Joints occur on Interior and Exterior Face of Concrete Wall.

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

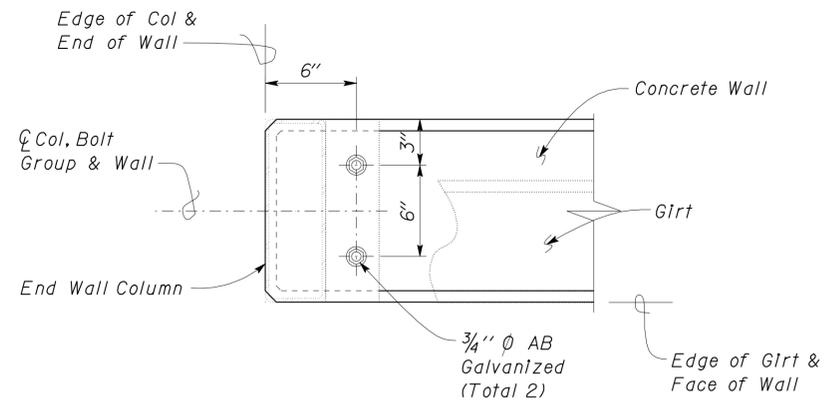
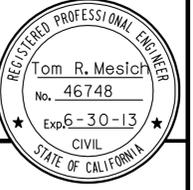
DESIGN	BY Tom Mesich	CHECKED Dai Lu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 19M5727	TAHOE CITY SAND HOUSE FOUNDATION DETAILS	SHEET
	DETAILS	BY P. von Savoye			CHECKED Dai Lu		POST MILE
QUANTITIES	BY	CHECKED	UNIT PROJECT NUMBER & PHASE EA 03000206041	BRIDGE NO. 19M5727	POST MILE	FOUNDATION DETAILS	ST1-5
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			0 1 2 3	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Placer	89	8.9	33	46

*Thomas Reich* 12-1-11  
 REGISTERED CIVIL ENGINEER DATE

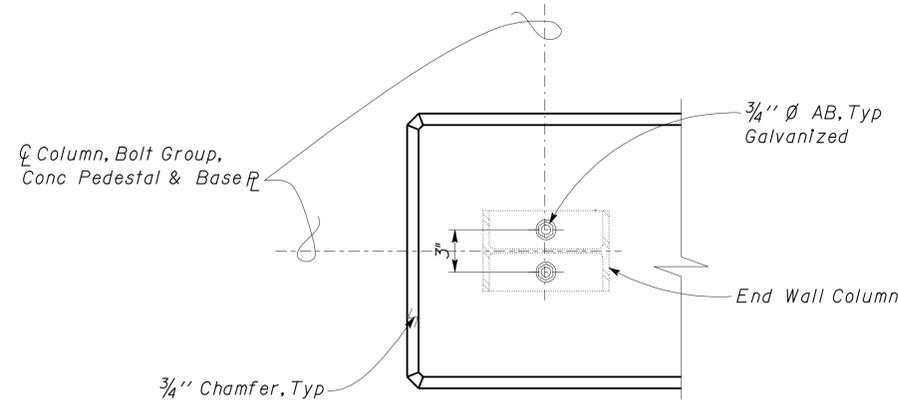
2-21-12  
 PLANS APPROVAL DATE

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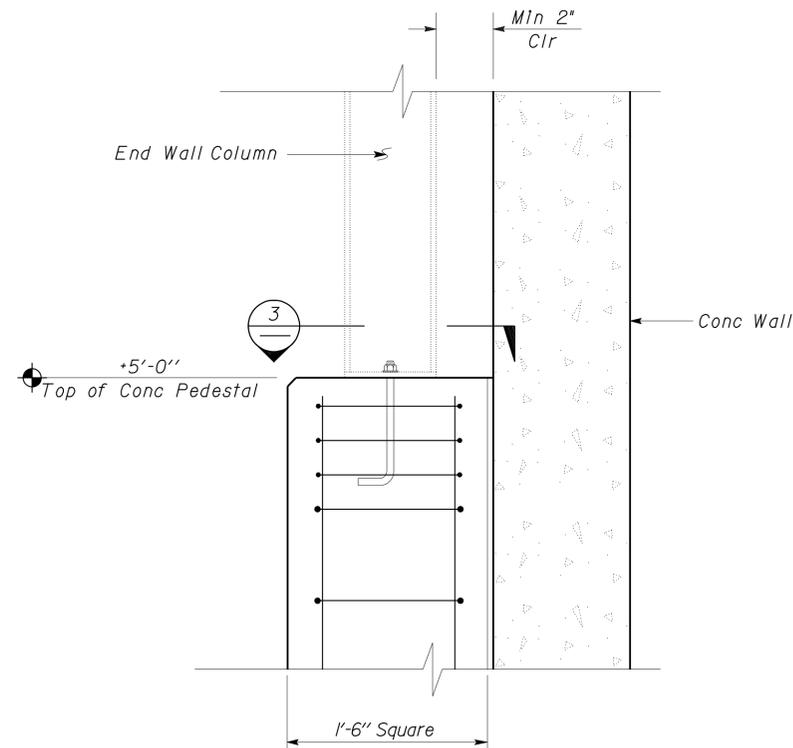


NOTE:  
Girt Attachment Plate not shown for clarity.

1 FRONT COLUMN CONNECTION  
Scale 2" = 1'-0"



3 END WALL COLUMN PLAN  
Scale 2" = 1'-0"



NOTE:  
For Details not shown, see 2 STI-4

2 END WALL COLUMN CONNECTION  
Scale 1 1/2" = 1'-0"

DESIGN	BY Tom Mesich	CHECKED Dai Lu
DETAILS	BY P. von Savoye	CHECKED Dai Lu
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

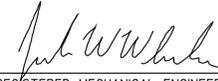
DIVISION OF ENGINEERING SERVICES  
ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE NO.	19M5727
POST MILE	

TAHOE CITY SAND HOUSE  
FRAMING DETAILS

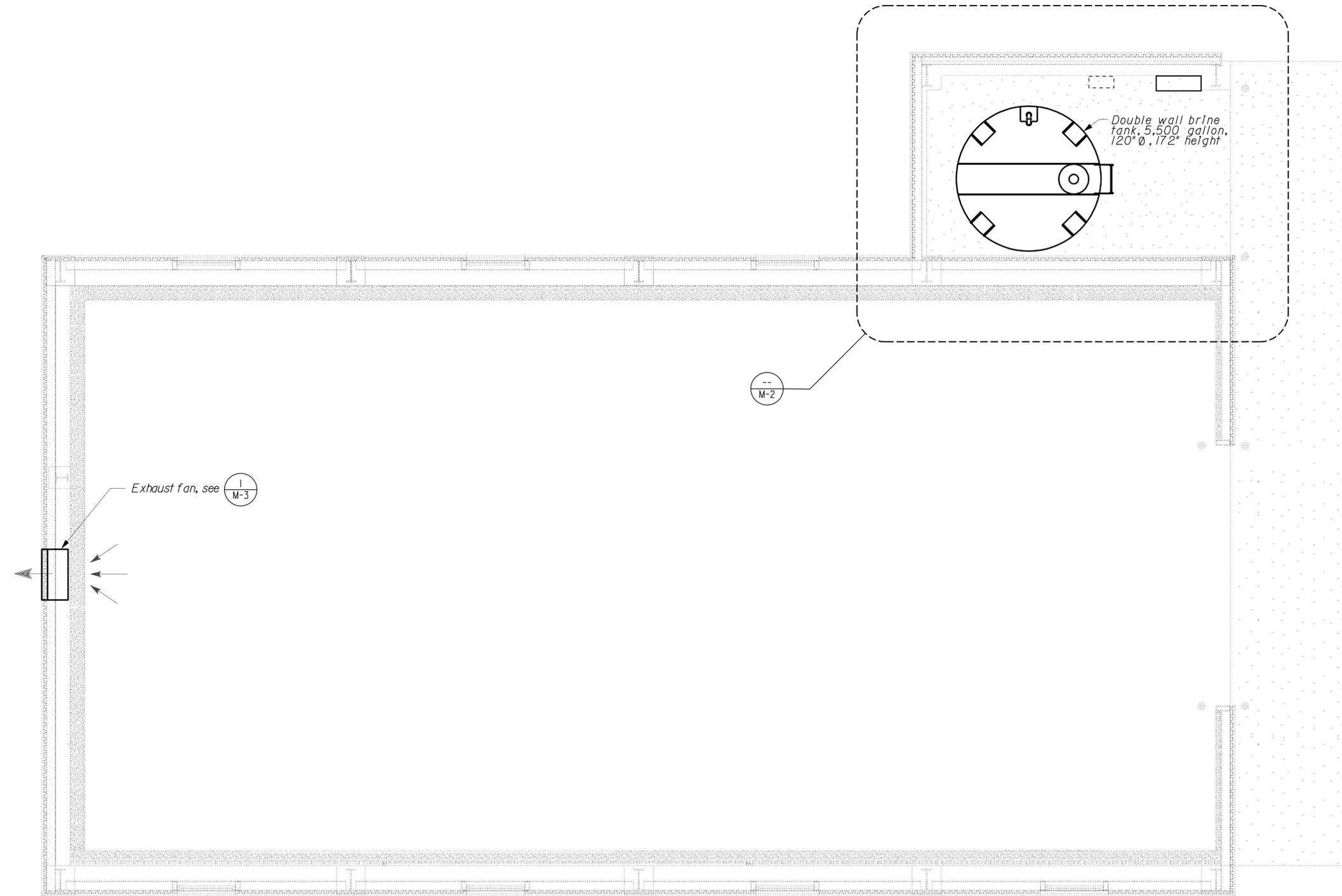
SHEET ST1-6

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Placer	89	8.9	34	46

  
 REGISTERED MECHANICAL ENGINEER DATE 11-29-11  
 PLANS APPROVAL DATE 2-21-12  


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 Reviewed by:   
 Approval date: 08-29-11

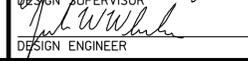


**ABBREVIATIONS**

- CL Centerline
- PL Plate
- Ø Diameter
- CFM Cubic Feet per Minute
- DIA. Diameter
- EEW Emergency Eye Wash
- EL Elevation
- (E) Existing
- FL Flow Line
- GSP Galvanized Steel Pipe
- HP Horsepower
- Max. Maximum
- Min. Minimum
- NIC Not in Contract
- PVC Polyvinyl Chloride
- SDSTS Self Drilling, Self Tapping Screw
- SG Specific Gravity
- SP Static Pressure
- SS Stainless Steel
- Typ. Typical
- V Volts
- w.c. Water Column
- WSP Welded Steel Pipe

**MECHANICAL PLAN**  
 1/4" = 1'-0"  
 REFERENCE NORTH

THIS DRAWING ACCURATE FOR MECHANICAL WORK ONLY

 DESIGN SUPERVISOR  DESIGN ENGINEER	DESIGN BY <i>Thomas Dietsch</i> CHECKED <i>Avin Kwan</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 19M5727	<b>TAHOE CITY SAND HOUSE</b> MECHANICAL PLAN	SHEET <b>M-1</b>
	DETAILS BY <i>Thomas Dietsch</i> CHECKED <i>Avin Kwan</i>		ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	POST MILE		REVISION DATES (PRELIMINARY STAGE ONLY)
QUANTITIES BY <i>Thomas Dietsch</i> CHECKED <i>Avin Kwan</i>	UNIT PROJECT NUMBER & PHASE 3615 03000206041	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	DISREGARD PRINTS BEARING EARLIER REVISION DATES → 11-29-11	REVISION DATES (PRELIMINARY STAGE ONLY) SHEET OF		

USERNAME => s114640 DATE PLOTTED => 22-FEB-2012 TIME PLOTTED => 13:54

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Plac	89	8.9	35	46

 REGISTERED MECHANICAL ENGINEER DATE 11-29-11	
PLANS APPROVAL DATE 2-21-12	
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**CALIFORNIA STATE FIRE MARSHAL APPROVED**

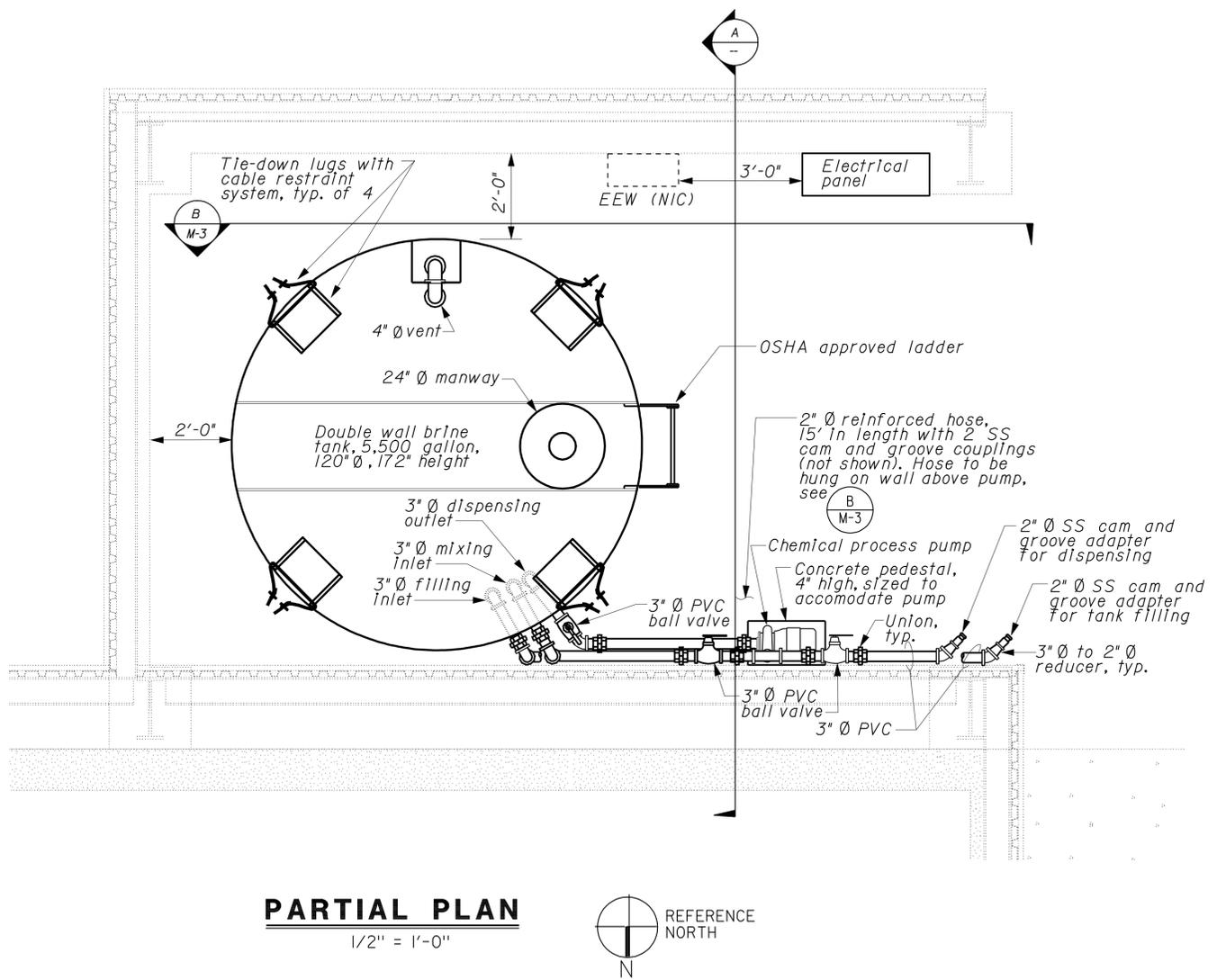
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Reviewed by:   
 Approval date: 08-29-11

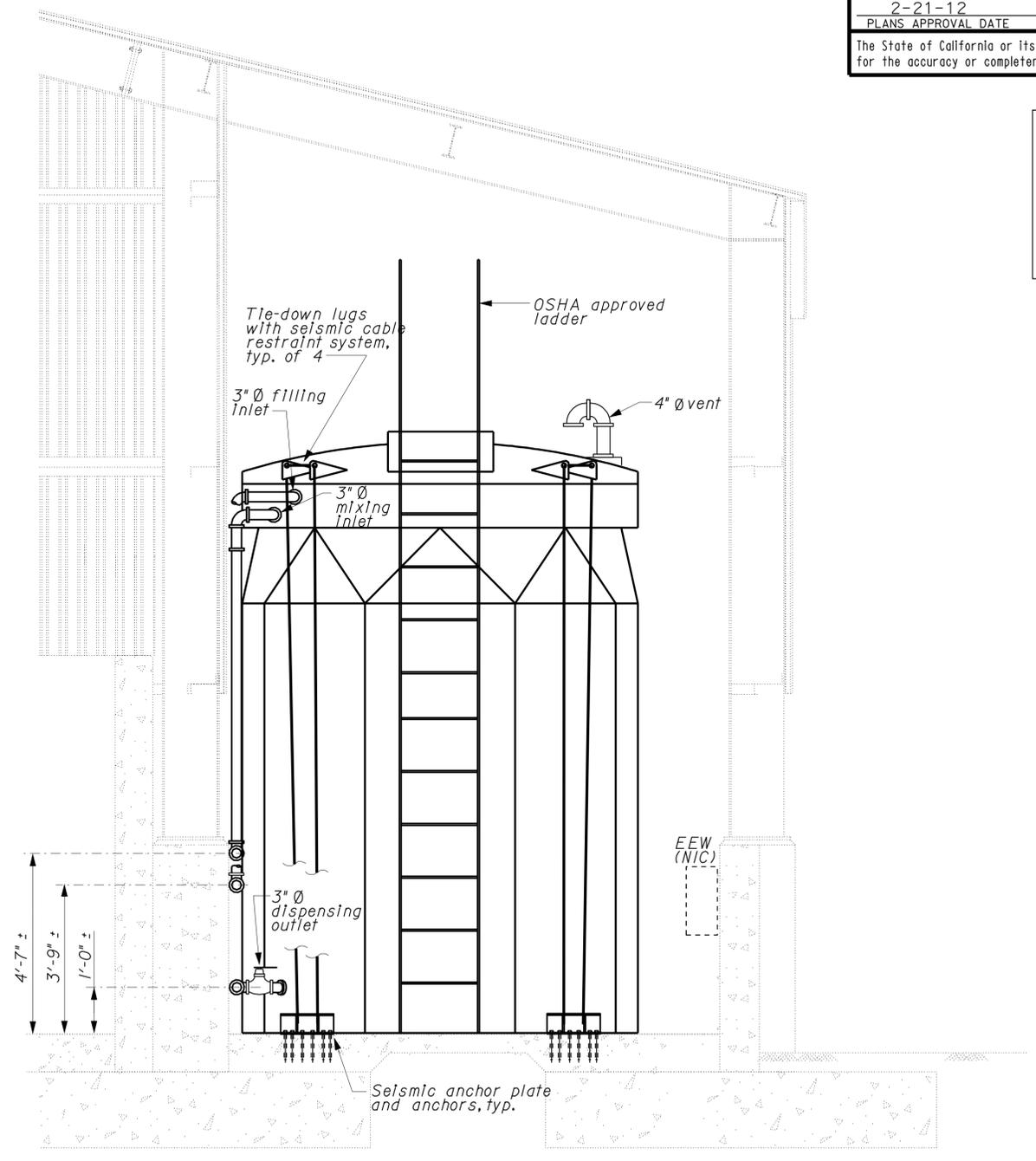
PUMP SCHEDULE			
PUMPING RATE (gpm)	TOTAL DYNAMIC HEAD (feet)	hp	VOLT/PHASE
150	30	5	230/1

**NOTES**

1. Pump shall meet required performance conditions for pumping a brine solution with an SG of 1.2



**PARTIAL PLAN**  
1/2" = 1'-0"



**TANK SECTION**  
1/2" = 1'-0"

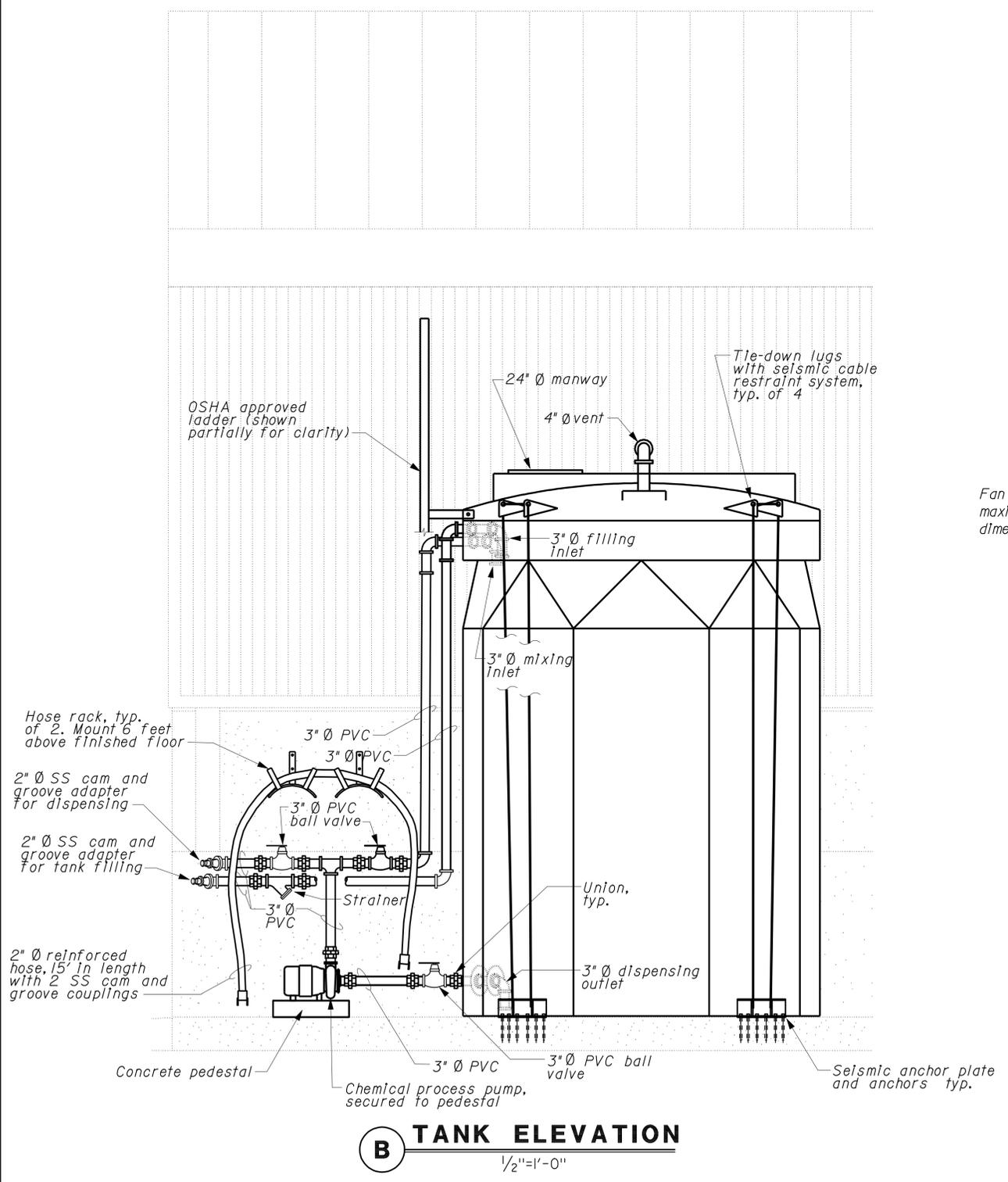
THIS DRAWING ACCURATE FOR MECHANICAL WORK ONLY

DESIGN BY <i>Thomas Dietsch</i> CHECKED <i>Avin Kwan</i> DETAILS BY <i>Thomas Dietsch</i> CHECKED <i>Avin Kwan</i> QUANTITIES BY <i>Thomas Dietsch</i> CHECKED <i>Avin Kwan</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 19M5727	<b>TAHOE CITY SAND HOUSE</b> PARTIAL PLAN/TANK ELEVATION	SHEET <b>M-2</b>
			POST MILE		
TAEMWW Imperial Rev. 7/10 FILE => m_2.dgn DATE PLOTTED => 22-FEB-2012 TIME PLOTTED => 14:03	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT PROJECT NUMBER & PHASE 3615 03000206041 EA 2F2801	DISREGARD PRINTS BEARING EARLIER REVISION DATES 11-29-11	SHEET OF	USERNAME => s114937 DATE PLOTTED => 22-FEB-2012 TIME PLOTTED => 14:03

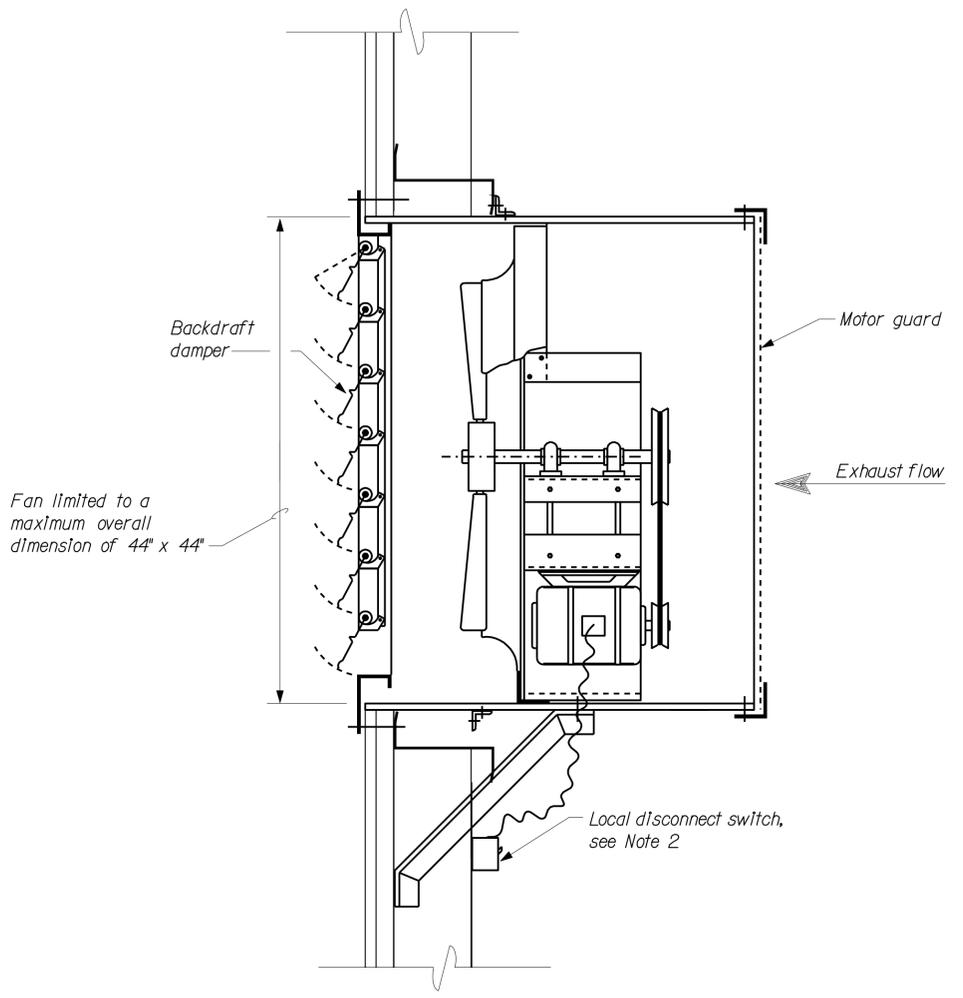
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Plac	89	8.9	36	46
 REGISTERED MECHANICAL ENGINEER			11-29-11	DATE	
			2-21-12	PLANS APPROVAL DATE	
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**CALIFORNIA STATE FIRE MARSHAL APPROVED**  
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 Reviewed by:   
 Approval date: 08-29-11



**B TANK ELEVATION**  
 1/2"=1'-0"



**1 WALL EXHAUST FAN**  
 NO SCALE

**EQUIPMENT SCHEDULE**

EF Exhaust Fan (wall) - 12,800 cfm @ 0.375 In w.c. SP, 2 hp, 230-V, 1-Phase, 32 zones maximum

**NOTES:**

1. Exhaust fan, motor, and mounting plates shall be a manufacturer assembled unit.
2. See Electrical sheets for exhaust fan controls.
3. See Architectural sheets for location and elevation of exhaust fan. See sheet A1-3 for installation details.

THIS DRAWING ACCURATE FOR MECHANICAL WORK ONLY

DESIGN BY <i>Thomas Dietsch</i> CHECKED <i>AvIn Kwan</i> DETAILS BY <i>Thomas Dietsch</i> CHECKED <i>AvIn Kwan</i> QUANTITIES BY <i>Thomas Dietsch</i> CHECKED <i>AvIn Kwan</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN		BRIDGE NO. 19M5727	<b>TAHOE CITY SAND HOUSE</b>		SHEET <b>M-3</b>	
			PROJECT NUMBER & PHASE 3615 03000206041		POST MILE	TANK/APPURTENANCES ELEVATION			SHEET OF
			UNIT EA 2F2801		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)		

USERNAME => s114937 DATE PLOTTED => 22-FEB-2012 TIME PLOTTED => 14:03

## GRAPHIC SYMBOLS FOR ELECTRICAL WIRING AND LAYOUT DIAGRAMS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	POLE-TOP ELECTROLIER		OCCUPANCY SENSOR WALL SWITCH, SINGLE LEVEL
	POLE-ARM ELECTROLIER		OCCUPANCY SENSOR WALL SWITCH, BILEVEL
<b>CEILING WALL</b>			MOTION SENSOR SWITCH
	PENDANT MOUNT LED, METAL HALIDE OR SODIUM VAPOR FIXTURE		MANUAL MOTOR STARTING SWITCH, THERMAL OVERLOAD TYPE
	SURFACE MOUNT LED, METAL HALIDE OR SODIUM VAPOR FIXTURE		MANUAL MOTOR STARTING SWITCH, WITHOUT OVERLOAD ELEMENT
	RECESSED FLUORESCENT, METAL HALIDE, OR SODIUM VAPOR FIXTURE		TIMER SWITCH
	EXIT LIGHT		SWITCH AND SINGLE RECEPTACLE
	SURFACE OR PENDANT INDIVIDUAL FLUORESCENT FIXTURE		SWITCH AND DUPLEX RECEPTACLE
	RECESSED INDIVIDUAL FLUORESCENT FIXTURE		HAND DRYER NOZZLE
	SURFACE OR PENDANT CONTINUOUS ROW FLUORESCENT FIXTURES		HAND DRYER
<b>NOTE:</b>	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.		RADIO OUTLET
	EXAMPLE : (4) F 2 - 2 x 32		TELEPHONE OUTLET
			SOUND SYSTEM LOUD SPEAKER OUTLET
	BLANK OUTLET		PUSHBUTTON
	JUNCTION BOX		PUSHBUTTON STATION, NC, WITH LOCKING DEVICE FOR OPEN
	DROP CORD		PUSHBUTTON STATION MOTOR CONTROL
	LIGHT FIXTURE RECEPTACLE		BUZZER
	DUPLEX RECEPTACLE OUTLET		BELL
	DUPLEX RECEPTACLE OUTLET (WITH GFCI)		COMBINATION BELL-BUZZER
	DUPLEX RECEPTACLE OUTLET, WEATHERPROOF (WITH GFCI)		THERMOSTAT
	SINGLE, SPECIAL PURPOSE RECEPTACLE OUTLET		PRESSURE SWITCH
	DUPLEX, SPECIAL PURPOSE RECEPTACLE OUTLET		CONTROL RELAY
	RANGE OUTLET		FLOW SWITCH
	CLOCK HANGER RECEPTACLE		PHOTOELECTRIC CELL
	FAN HANGER RECEPTACLE		RADIO OUTLET
	FLOOR SINGLE RECEPTACLE OUTLET		TELEVISION OUTLET
	FLOOR DUPLEX RECEPTACLE OUTLET		MICROPHONE OUTLET
	FLOOR RADIO OUTLET		FLUSH-MOUNTED PANELBOARD AND CABINET
	FLOOR TELEPHONE OUTLET		SURFACE-MOUNTED PANELBOARD AND CABINET
	MULTI-FLOOR OUTLET, 2 OR MORE GANG		LIGHTING PANEL
	MULTI-OUTLET ASSEMBLY		POWER PANEL
	SINGLE POLE SWITCH		COMBINATION LIGHTING AND POWER
	DOUBLE POLE SWITCH		MOTOR CONTROLLER
	THREE WAY SWITCH		DISCONNECT SWITCH
	FOUR WAY SWITCH		CONDUIT CONCEALED IN CEILING OR WALL
	AUTOMATIC DOOR		CONDUIT CONCEALED IN FLOOR
	KEY OPERATED SWITCH		CONDUIT EXPOSED
	SWITCH AND PILOT LIGHT		CROSS-LINES INDICATE NUMBER OF #12 AWG CONDUCTORS. LONGER CROSS-LINE INDICATES 1#12 AWG (G) FOR EQUIPMENT GROUNDING CONDUCTOR. NO CROSS-LINE INDICATES 2#12 WITH 1#12 (G) UNLESS OTHERWISE NOTED. ALL CONDUIT SHALL BE 1/2" UNLESS OTHERWISE NOTED.
	MOMENTARY CONTACT SWITCH		HOMERUN TO PANEL BOARD, ARROWS INDICATE NUMBER OF CIRCUITS, LETTER DENOTES PANEL BOARD, NUMERAL DENOTES CIRCUIT.
	REMOTE CONTROL SWITCH		SURFACE METAL RACEWAY
	WEATHERPROOF SWITCH		CONDUCTOR INFO (PER CONDUIT)
	FAN SWITCH		CONDUIT TYPE
	LIGHT SWITCH		CONDUIT SIZE
	HEATER SWITCH		NUMBER OF CONDUITS (NO NUMBER INDICATES ONE CONDUIT)
	VARIABLE SPEED MOTOR CONTROL SWITCH		CONDUIT, RIGID STEEL, UNDERGROUND
	TWO SWITCHES, ONE SWITCH FOR LIGHT AND FAN AND TIMER SWITCH FOR HEAT LAMP		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

## 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
	SELECTOR 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

### REMODEL WORK

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

### STANDARD NOTES

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

### STANDARD PLANS

DATED MAY, 2006

NSP ES-8A  
NSP ES-8B

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Plac	89	8.9	37	46

2-21-12  
PLANS APPROVAL DATE

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Reviewed by: FRANCIS SOLICH

Approval date: 08-29-11

### ABBREVIATIONS

A	AMPERES
A/C	AIR CONDITIONING UNIT
ACS	AIR COMPRESSOR STARTER
AI	ANALOG INPUT
AL	ALARM LIGHT
AO	ANALOG OUTPUT
AVC	AIR VOLUME CONTROLLER
BD	BUILDING DISCONNECT
BRK	BREAKER
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CR	CONTROL RELAY
CSW	CURRENT SWITCH
DI	DIGITAL INPUT
DO	DIGITAL OUTPUT
DP	DUPLEX PLUG RECEPTACLE
DS	DOOR SWITCH
(E)	EXISTING
EF	EXHAUST FAN
F	FUSE
FL	FAILURE LIGHT
FLA	FLASHER
FLEX	FLEXIBLE CONDUIT
FLS	FLOW SWITCH
FR	FAILURE RESET
FS	FLOAT SWITCH
G	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GRS	GALVANIZED RIGID STEEL
IR	INDUCTION RELAY
JB	JUNCTION BOX
L	LIGHT
LC	LIGHTING CONTACTOR
LCP	LIGHTING CONTROL PANEL
LD	LIGHT DISCONNECT
LED	LIGHT EMITTING DIODE
LI	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
POLE	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
SO	SERVICE OIL-RESISTANCE
SPR	STANDBY POWER RECEPTACLE
SS	SELECTOR SWITCH
ST	STARTER
SV	SOLENOID VALVE
T	TRANSFORMER
TB	TERMINAL BLOCK
TDR	TIME DELAY RELAY
TGLS	TOGGLE SWITCH
TM	TIME METER
TOT	TOTAL
TS	TIMER SWITCH
TSW	TEST SWITCH
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
UPS	UNINTERRUPTIBLE POWER SUPPLY
WLS	WATER LEVEL SWITCH
WP	WEATHERPROOF

### 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.

DESIGN	BY <i>J. S. Sandhu</i>	CHECKED <i>Jaswinder Gill</i>
DETAILS	BY <i>Ed D. Tapalla 3/11</i>	CHECKED <i>J. S. Sandhu</i>
QUANTITIES	BY <i>J. S. Sandhu</i>	CHECKED <i>Jaswinder Gill</i>

STATE OF <b>CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 19M5727 POST MILE X
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<b>TAHOE CITY SAND HOUSE</b>  LEGEND	SHEET <b>EEO-0</b>
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### CERTIFICATE OF COMPLIANCE (Page 3 of 4) LTG-1C

Project Name: Tahoe City Maintenance Station Sand House Building Date: 7/25/2011

#### INDOOR LIGHTING SCHEDULE and FIELD ENERGY CHECKLIST

Fill in controls for all spaces: a) area controls, b) multi-level controls, c) manual daylighting controls for daylight areas > 250 sq ft, automatic daylighting controls for daylight areas > 2,500 sq ft, d) shut-off controls, e) display lighting controls, f) tailored lighting controls-general lighting controlled separately from display, ornamental and display case lighting and g) demand responsive automatic controls for retail stores > 50,000 sq ft, in accordance with Section 131.

MANDATORY LIGHTING CONTROLS - FIELD INSPECTION ENERGY CHECKLIST			Field Inspector	
Type/Description	Number of Units	Location in Building	Pass	Fail
Line Voltage Motion Sensor	5	Sand Storage, Brine tank Bldg.	<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"/>

Field Inspectors' Notes or Discrepancies:

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

Project Name: Tahoe City Maintenance Station Sand House Building Date: 7/25/2011

Conditioned and Unconditioned space Lighting must not be combined for compliance

Indoor Lighting Power for Conditioned Spaces		Indoor Lighting Power for Unconditioned Spaces	
Installed Lighting (from Conditioned LTG-1C Page 2)	Watts	Installed Lighting (from Unconditioned LTG-1C Page 2)	Watts
Lighting Control Credit Conditioned Spaces (from LTG-2C)	-	Lighting Control Credit Unconditioned Spaces (from LTG-2C)	-
Adjusted Installed Lighting Power	=	Adjusted Installed Lighting Power	= 1680
Complies if Installed ≤ Allowed		Complies if Installed ≤ Allowed	
Allowed Lighting Power Conditioned Spaces (from LTG-3C)		Allowed Lighting Power Unconditioned Spaces (from LTG-3C)	2400

**Required Acceptance Tests**

**Designer:**  
This form is to be used by the designer and attached to the plans. Listed below is the acceptance test for the Lighting system, LTG-2A and LTG-3A. The designer is required to check the acceptance tests and list all control devices serving the building or space shall be certified as meeting the Acceptance Requirements for Code Compliance. If all the lighting system or control of a certain type requires a test, list the different lighting and the number of systems. The NA7 Section in the Appendix of the Nonresidential Reference Appendices Manual describes the test. Since this form will be part of the plans, completion of this section will allow the responsible party to budget for the scope of work appropriately. Forms can be grouped by type of Luminaire controlled.

**Enforcement Agency:**  
System 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 and LTG-3A form are not considered a complete form and are 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 and LTG-3A for each different lighting luminaire control(s) must be provided to the owner of the building for their records.

Luminaires Controlled				LTG-2A and LTG-3A
Equipment Requiring Testing	Description	Number of Like Controls	Location	Controls and Sensors and Automatic Daylighting Controls Acceptance
Ⓞ	Line Voltage Motion Sensor	5	Sand Storage, Brine tank Bldg.	<input checked="" type="checkbox"/>
				<input type="checkbox"/>
				<input type="checkbox"/>
				<input type="checkbox"/>
				<input type="checkbox"/>
				<input type="checkbox"/>
				<input type="checkbox"/>
				<input type="checkbox"/>
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				<input type="checkbox"/>
				<input type="checkbox"/>
				<input type="checkbox"/>

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Plac	89	8.9	39	46

*Jaswinder S Sandhu*  
REGISTERED ELECTRICAL ENGINEER DATE 12-01-11  
No. 11803  
Exp. 9-30-12  
ELEC  
STATE OF CALIFORNIA

2-21-12  
PLANS APPROVAL DATE

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

**CALIFORNIA STATE FIRE MARSHAL APPROVED**

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

Reviewed by: *FRANCIS SOLICH*  
Approval date: 08-29-11

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

Project Name: **Tahoe City Maintenance Station Sand House Building** Date: **7/25/2011**

Project Address: **553 River Road, Tahoe City, Ca. 96145** Total Hardscape Illuminated Area: **17,416 SQUARE FEET**

**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: **Jesse S. Sandhu** Signature: *Jaswinder K Sandhu*

Company: **Caltrans** Date: **7/25/2011**

Address: **1801 30th Street** If applicable: CEA # CEPE #

City/State/Zip: **Sacramento, CA 95816** Phone: **(916) 227-8342**

**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: **Jesse S. Sandhu** Signature: *Jaswinder K Sandhu*

Company: **Caltrans** Phone: **(916) 227-8342**

Address: **1801 30th Street** License # **E 11803**

City/State/Zip: **Sacramento, CA 95816** Date: **7/25/2011**

**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: **EE0-1**

**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.

**2008 Nonresidential Compliance Forms July 2010**

**GENERAL NOTE:**  
Form OLTG-1-C, Parts 1 of 4 and 2 of 4 are shown on this sheet.  
Form OLTG-1-C, Parts 3 of 4 and 4 of 4 are shown on sheet EE0-4.  
Other checked forms are available upon request.

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

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

Project Name: **Tahoe City Maintenance Station Sand House Building** Date: **7/25/2011**

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 (i.e., lamp pole-top shoe-box 400 watt metal halide)	Cutoff Designation	Watts per 1 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)				
LED3	LED3-1x75 (LED)	FC	75	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2	150	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
Enter total into OLTG-1C; Page 4 of 4; Row H; Total Installed Watts:								<b>150</b>		

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:

**2008 Nonresidential Compliance Forms July 2010**

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Pla	89	8.9	40	46

*Jaswinder K Sandhu*  
REGISTERED ELECTRICAL ENGINEER DATE 12-01-11  
No. 11803  
Exp. 9-30-12  
ELEC  
STATE OF CALIFORNIA

2-21-12  
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: *Francis Solich*  
FRANCIS SOLICH  
Approval date: 08-29-11

DESIGN BY <i>J. S. Sandhu</i> CHECKED <i>Jaswinder Gill</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 19M5727	TAHOE CITY SAND HOUSE	SHEET EE0-3
DETAILS BY <i>Dali Zhou</i> CHECKED <i>J. S. Sandhu</i>		ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	POST MILE X		
QUANTITIES BY <i>J. S. Sandhu</i> CHECKED <i>Jaswinder Gill</i>					
TAEMWW Imperial Rev. 7/10	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3596 03000206041	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF

EA 2F2801

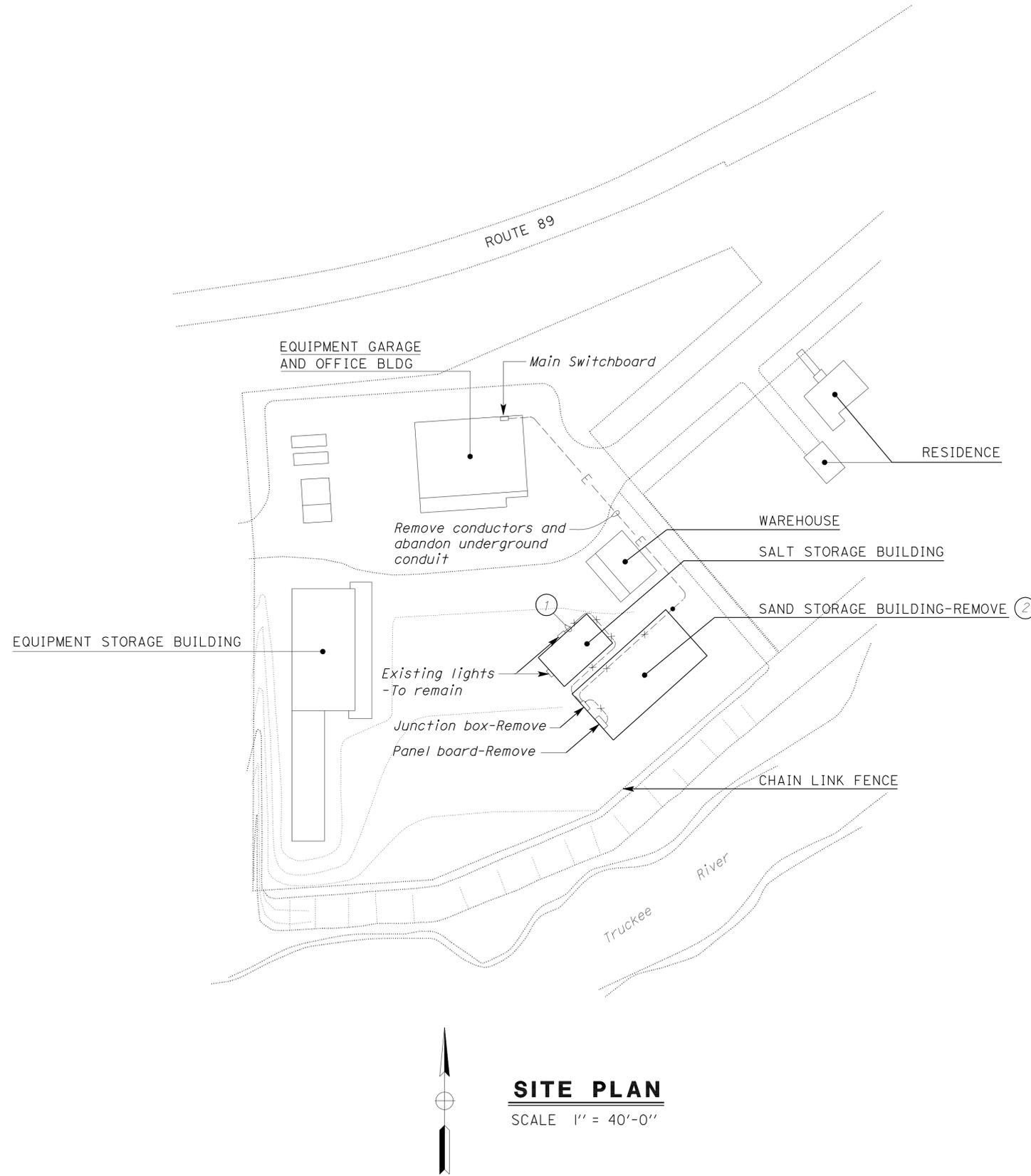
22-FEB-2012 14:08 ee0\_03.dgn



DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Plac	89	8.9	42	46
<p><i>Jaswinder A Sandhu</i>  REGISTERED ELECTRICAL ENGINEER DATE 12-01-11</p> <p><i>J.S. SANDHU</i>  No. 11803  Exp. 9-30-12  ELEC  STATE OF CALIFORNIA</p>					
<p>2-21-12  PLANS APPROVAL DATE</p>					
<p>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</p>					

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Reviewed by: *[Signature]*  
FRANCIS SOLICH  
Approval date: 08-29-11



**General Notes:**

- A. Existing underground electrical conduits and conductors system as shown are diagrammatic and their location as shown is approximate only. Therefore, field verify exact location of existing underground facilities prior to the beginning of trenching or removal work.
- B. Not all underground utilities shown. See Utility Plan for additional information.
- C. Remove any existing pull boxes, if required and fill the holes to match surrounding surfaces.

**Notes:**

- 1 Remove all conduit and conductors and block heater receptacles mounted on the exterior of the Salt Storage Building.
- 2 Remove all conduit and conductors, junction box, panel board and light fixtures prior to demolition of the building. For removal, see Architectural sheets.

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY

*[Signature]*  
DESIGN SUPERVISOR  
*Jaswinder A Sandhu*  
DESIGN ENGINEER

DESIGN	BY J. S. Sandhu	CHECKED Jaswinder Gill
DETAILS	BY Dali Zhou	CHECKED J. S. Sandhu
QUANTITIES	BY J. S. Sandhu	CHECKED Jaswinder Gill

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO.	19M5727
POST MILE	X

**TAHOE CITY SAND HOUSE**  
EXISTING SITE PLAN

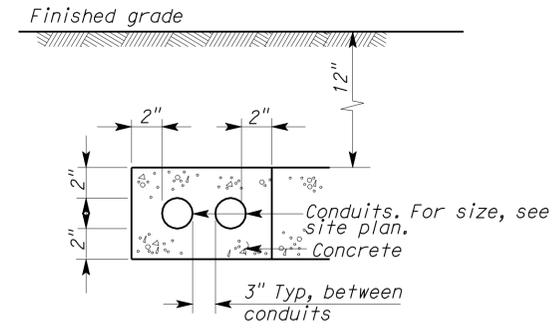
SHEET **EE1-1**

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Pla	89	8.9	43	46

<b>Jaswinder S. Sandhu</b> REGISTERED ELECTRICAL ENGINEER		DATE 12-01-11	
2-21-12 PLANS APPROVAL DATE		<b>J.S. SANDHU</b> No. 11803 Exp. 9-30-12 ELEC STATE OF CALIFORNIA	

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**CALIFORNIA STATE FIRE MARSHAL APPROVED**  
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 Reviewed by: *[Signature]*  
**FRANCIS SOLICH**  
 Approval date: 08-29-11

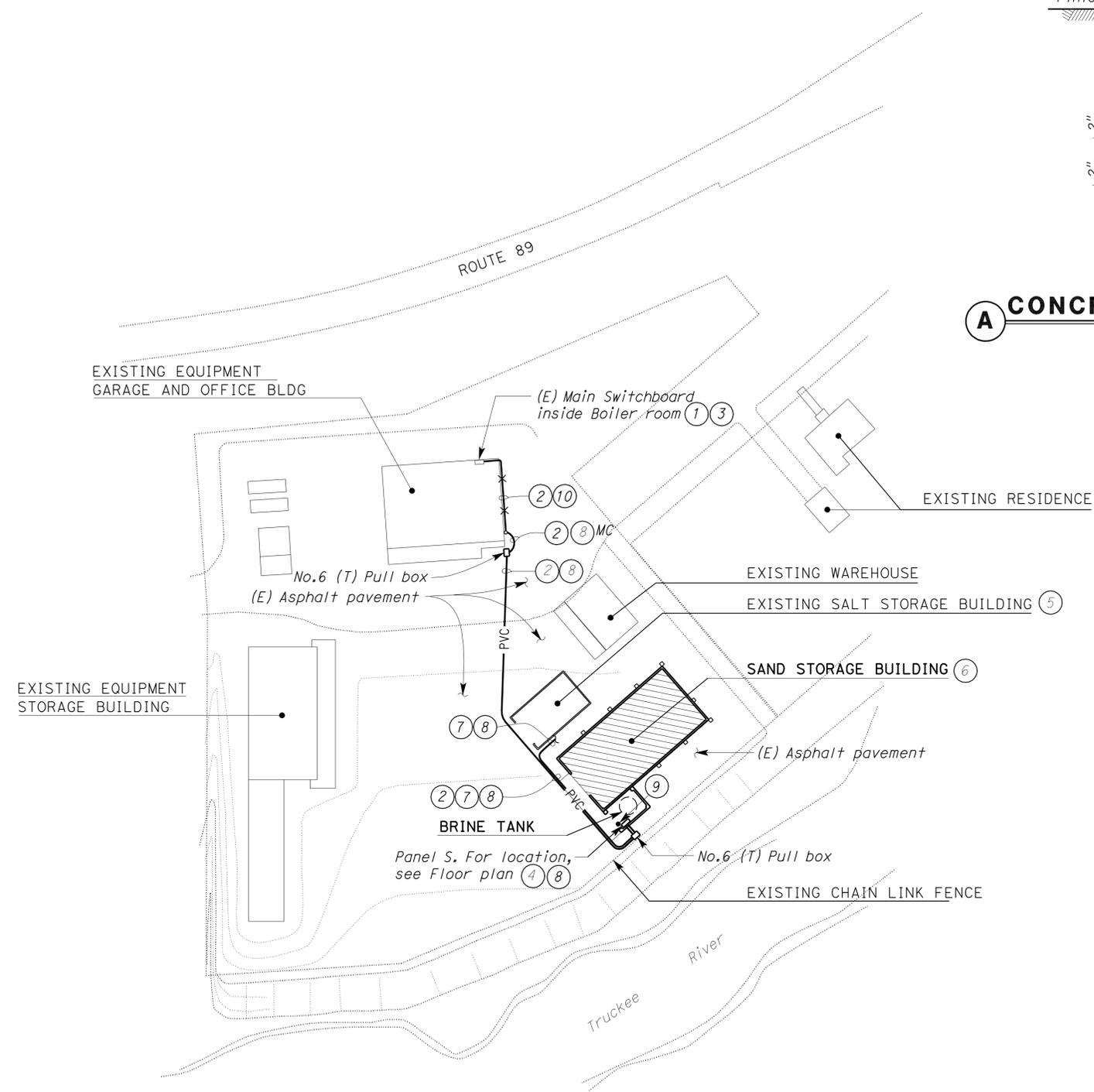
**SECTION A CONCRETE ENCASED CONDUITS**  
 NO SCALE

General Note:

- A. Location of all existing equipment and conduit systems as shown are approximate only. Contractor shall verify the exact location of all equipment and conduit systems in the field as required prior to the beginning of work. No additional cost will be paid to the Contractor for locating of existing equipment and conduit systems.

Notes:

- Existing Main Switchboard is Sierra Switchboard Co., Catalog No. S213293, 400-Ampere, 120/240-Volt, 3-phase, 4-wire switchboard. Replace existing 40-Ampere, 2-pole circuit breaker with 100-Ampere, 2-pole and 120/240-Volt rated circuit breaker for supplying the new Sand House building.
- 2"C, 3#3/0, 1#3/0G.
- Install 2"C, 3#3/0 and 1#3/0G between underground pull box and Main Switchboard. Conduit entry to existing switchboard may be made from the side of switchboard. For conduit installation work, core drill hole in existing wall and install conduit fittings as required.
- Install the following conduits between Panel S and No. 6 pull box outside:  
 - 2"C, 3#3/0, 1#3/0G.  
 - 1 1/2"C, 10#10, 1#10G.
- For work on existing Salt Storage Building, see sheet EE1-3.
- For work on the new Sand House Building, see sheet EE1-4.
- 1 1/2"C, 10#10, 1#10G. For continuation, see sheet EE1-3.
- Conduits encased in concrete. Saw cut existing asphalt pavement for underground conduit installation work. For underground conduit installation, see Detail A on this sheet. Patch all damaged surface to match existing surfaces.
- Ground bar. For exact location see, "Elevation A" sheet EE1-5. For details see *[Symbol]*.
- Install conduit exposed along the outside wall and then exposed in the attic space above Office Area.



**SITE PLAN**  
 SCALE 1" = 40'-0"

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY

DESIGN BY <i>J. S. Sandhu</i> CHECKED <i>Jaswinder Gill</i> DETAILS BY <i>Ed D. Tapalla 3/11</i> CHECKED <i>J. S. Sandhu</i> QUANTITIES BY <i>J. S. Sandhu</i> CHECKED <i>Jaswinder Gill</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	<b>TAHOE CITY SAND HOUSE</b> MODIFIED SITE PLAN	SHEET
			19M5727		OF
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3		UNIT PROJECT NUMBER & PHASE: 3596 03000206041	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET NO. <b>EE1-2</b>

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Placer	89	8.9	44	46

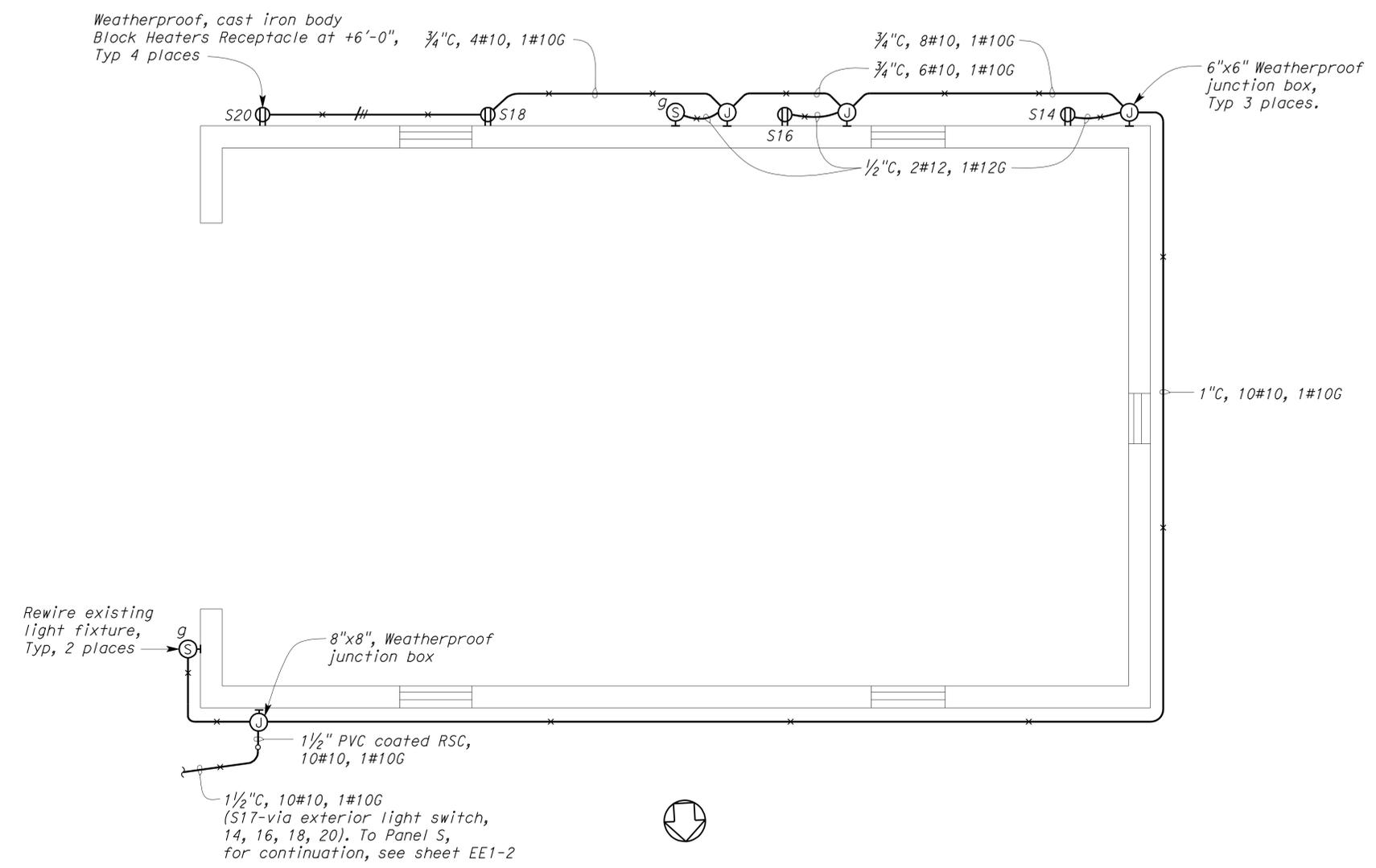
<i>Jaswinder S Sandhu</i> REGISTERED ELECTRICAL ENGINEER		DATE 12-01-11	
2-21-12 PLANS APPROVAL DATE			

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Reviewed by: *Francis Solich*  
 FRANCIS SOLICH  
 Approval date: 08-29-11



- General Notes:**
- A. All conduits and junction boxes to be mounted at +6'-00".
  - B. All fitting and connectors to be weathertight.
  - C. Support all exterior conduits at 5'-0" on center.

**PLAN**  
 NO SCALE

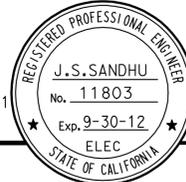
THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY

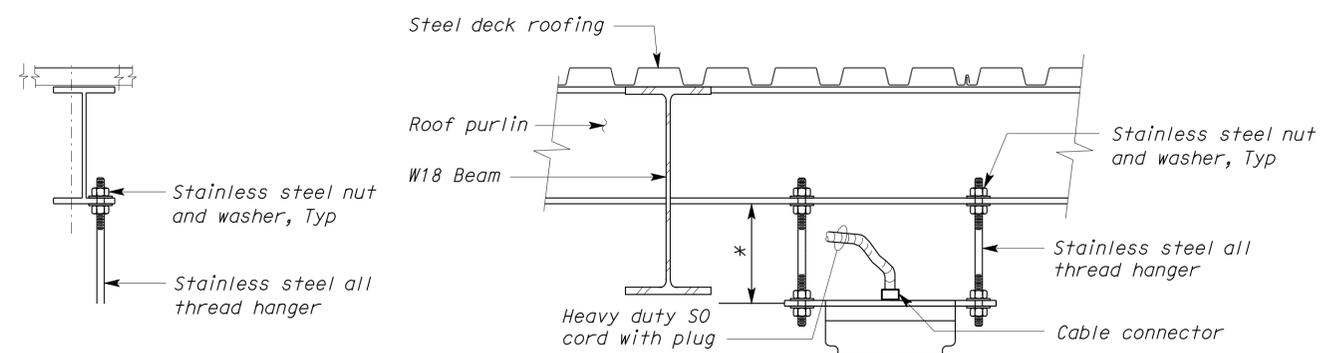
DESIGN BY <i>J. S. Sandhu</i> CHECKED <i>Jaswinder Gill</i> DETAILS BY <i>Dali Zhou</i> CHECKED <i>J. S. Sandhu</i> QUANTITIES BY <i>J. S. Sandhu</i> CHECKED <i>Jaswinder Gill</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 19M5727	<b>TAHOE CITY SAND HOUSE</b> SALT STORAGE POWER AND LIGHTING	SHEET <b>EE1-3</b>
			POST MILE X		
TAEMWW Imperial Rev. 7/10	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3596 03000206041	EA 2F2801	ee1_03.dgn	

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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Plac	89	8.9	45	46

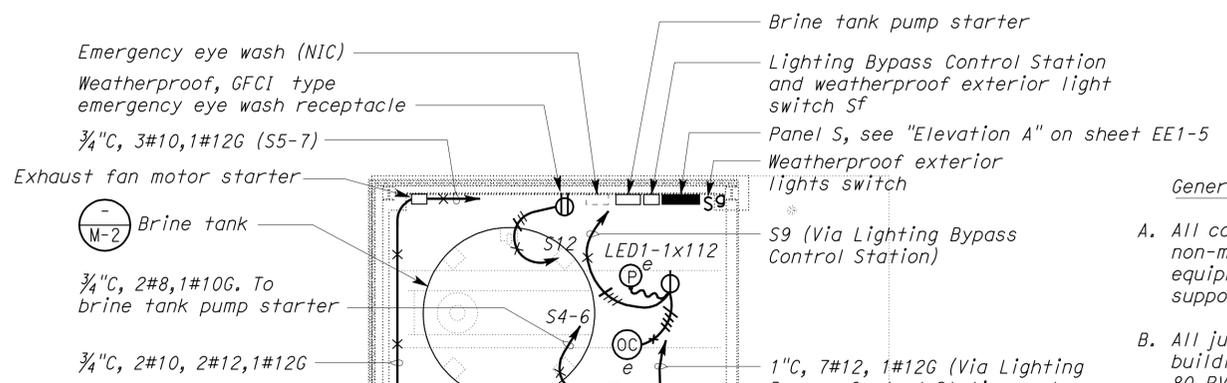
APPROVED Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times. Reviewed by: FRANCIS SOLICH Approval date: 08-29-11		
JASWINDER K SANDHU REGISTERED ELECTRICAL ENGINEER DATE 12-01-11		
2-21-12 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.		



\* Mounting height of the light fixture shall follow the structural beam profile at that location.

### LIGHT FIXTURE MOUNTING DETAILS

NO SCALE

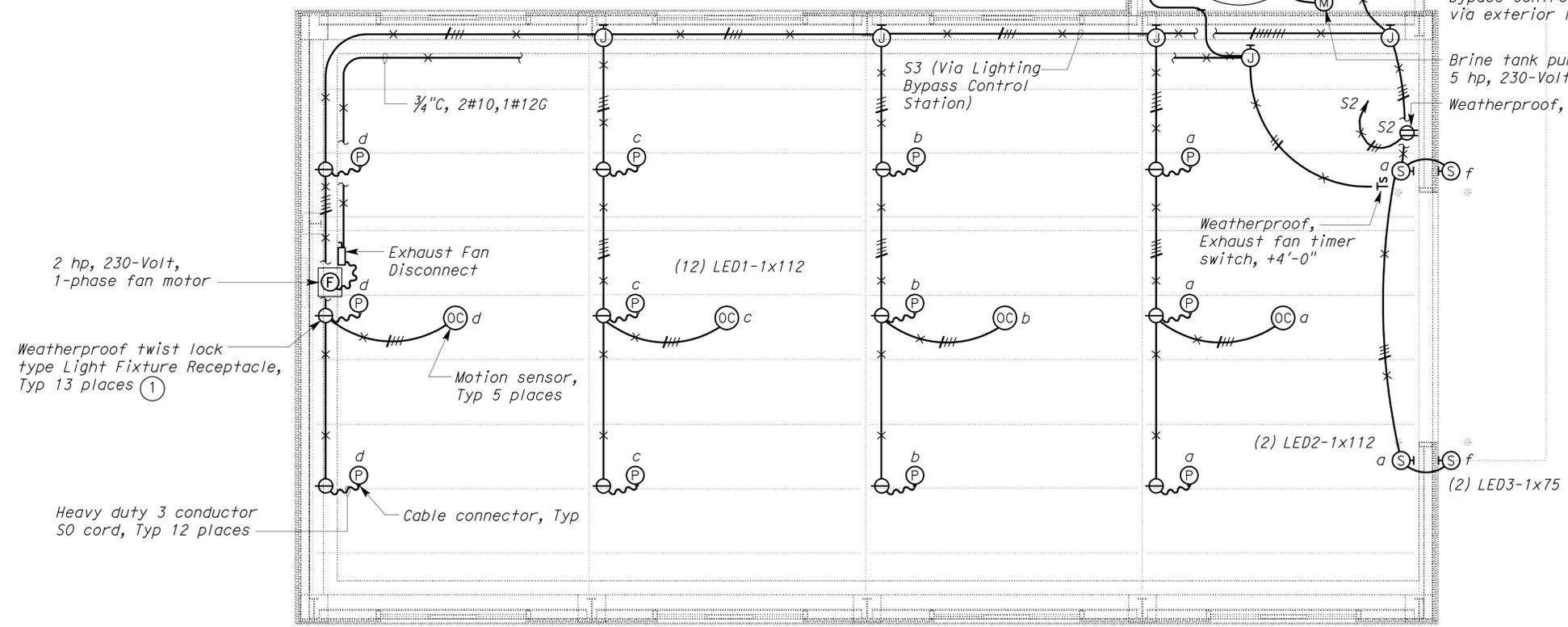


#### General Notes:

- All conduits inside Sand House building shall be 1" non-metallic, Schedule 80, rigid PVC conduit with equipment grounding conductor. PVC conduits to be supported no more than 5'-0" on center.
- All junction boxes and device boxes inside Sand House building shall be weatherproof type non-metallic, Schedule 80 PVC boxes.
- For exact location and mounting height of outside lights, see Architectural plans.
- All conduits inside the brine tank shall be rigid steel galvanized conduits.
- All junction boxes inside the brine tank shall be cast iron with external tubes.
- Location of eye wash receptacle shall be as directed by the Engineer.
- Mount exhaust fan disconnect at a location near the exhaust fan.
- Mount exhaust fan timer switch at a location directed by the Engineer.
- Mount exhaust fan starter in a manner to provide proper clearance in front and around equipment.
- For Lights Control Schematic and Exhaust Fan Motor Wiring Diagram, see sheet EE1-5.

#### Note:

- First Light Fixture Receptacle. Utilize receptacle outlet box to make splices per schematic diagram on sheet EE1-5 for each motion sensor.



### PLAN

SCALE 3/16" = 1'-0"

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY

DESIGN BY J. S. Sandhu CHECKED Jaswinder Gill DETAILS BY Ed D. Tapalla 3/11 CHECKED J. S. Sandhu QUANTITIES BY J. S. Sandhu CHECKED Jaswinder Gill	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 19M5727 POST MILE X	<b>TAHOE CITY SAND HOUSE</b> POWER AND LIGHTING PLAN	SHEET <b>EE1-4</b>

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Plā	89	8.9	46	46

**CALIFORNIA STATE FIRE MARSHAL APPROVED**

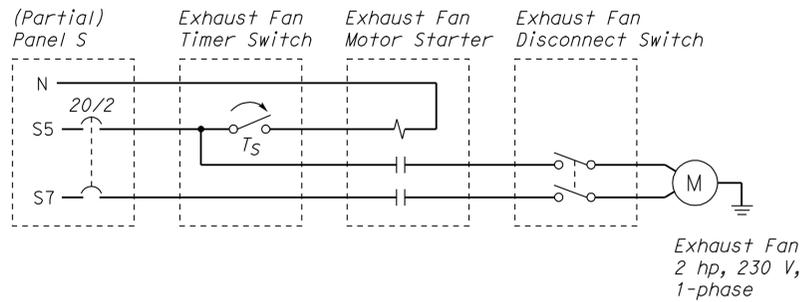
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

Reviewed by: FRANCIS SOLICH  
Approval date: 08-29-11

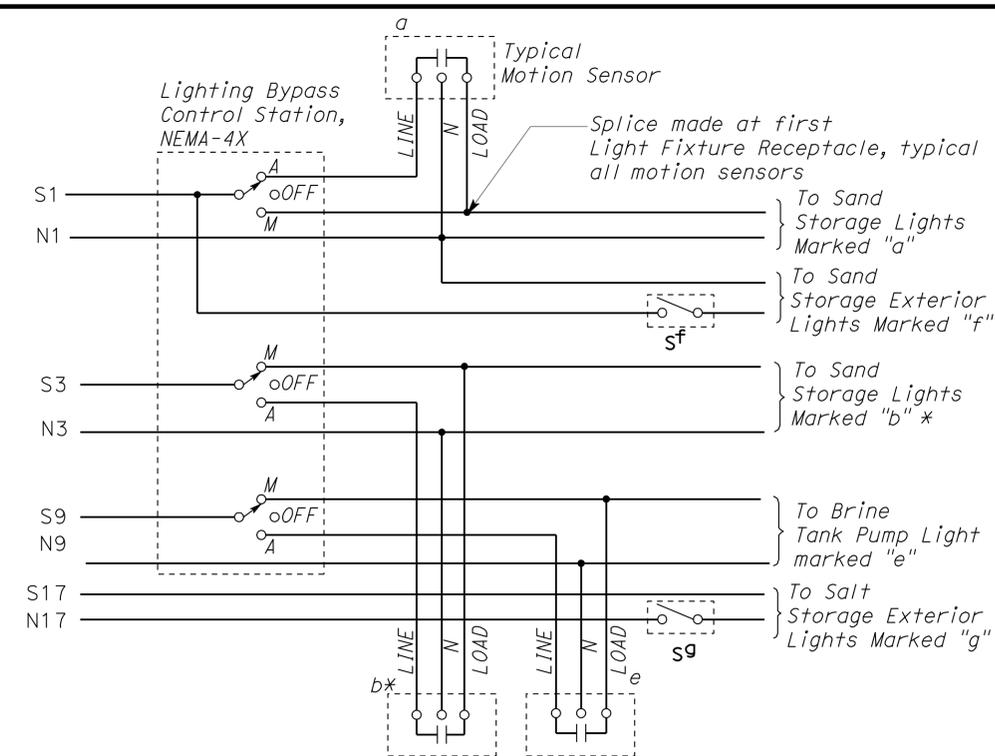
**J. S. SANDHU**  
REGISTERED ELECTRICAL ENGINEER  
No. 11803  
DATE 12-01-11  
Exp. 9-30-12  
ELEC  
STATE OF CALIFORNIA

2-21-12  
PLANS APPROVAL DATE

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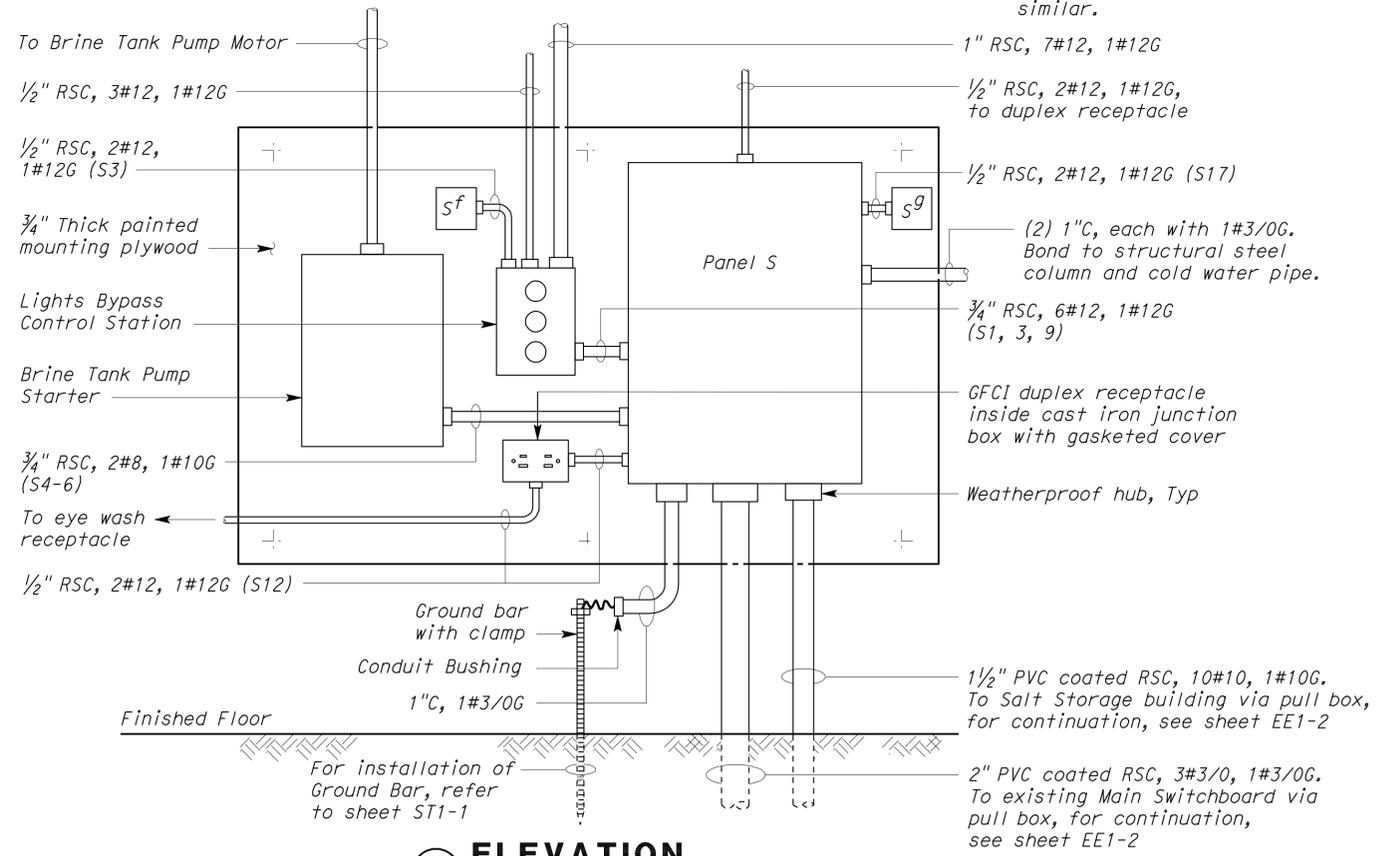
**EXHAUST FAN WIRING DIAGRAM**



**LIGHTS CONTROL SCHEMATIC**

\* Connection to lights and motion sensor marked "b" is shown, connection to lights and motion sensor marked "c" and "d" are similar.

LIGHTING FIXTURE SCHEDULE	
TYPE	DESCRIPTION
LED1	Pendant mounted, 120-Volt, 112-Watt, totally enclosed light emitting diode (LED) type light fixture suitable for Class 1, Division 2, location. Light fixture shall be constructed of die cast aluminum housing, completely gasketed, and shall have low profile clear glass globe with guard and screw on type removable door. LED lamp shall have 5000 degree kelvin color temperature and the lamp shall be capable of being replaced merely by unscrewing the globe compartment and shall not require use of any tools.
LED2	LED2 shall be same as LED1 except it shall have wall-mounted type bracket.
LED3	LED3 shall be same as LED1 except it shall have wall-mounted type bracket and 75 Watts lamp. Provide and install an external photoelectric kit for each exterior light fixture.
Motion Sensor	Motion sensor shall be line voltage type, 120-Volt, 800-Watt rated, completely enclosed, plastic bodied, corrosion resistant, digital passive infrared type motion sensor suitable for surface/ceiling mounting and designed for high bay type application with 360 degree of beam spread and operating temperature between -4 Degree F to 160 Degree F. The sensor shall be suitable for switching LED loads.



**ELEVATION**  
NO SCALE

MAIN: 100 A, CIRCUIT BREAKER  
VOLTS: 120/240 V, SINGLE PHASE, 3-WIRE

PANEL S: (BOTTOM FEED)  
10K SCRR

FEEDER SIZE: 3#3/0, 1#3/0G  
LOCATION: SURFACE MOUNTED-  
BRINE TANK BUILDING

DESCRIPTION	AMPERES		BRK	CKT	A	C	CKT	BRK	AMPERES		DESCRIPTION
	A	C							A	C	
LIGHTS-INDOOR & LIGHTS-ENTRANCE AND INDOOR	9.0		20/1	1			2	20/1	1.5		RECEPTACLE-INDOOR
		9.0		3			4	50/2		28	BRINE TANK PUMP- 5 HP
EXHAUST FAN-2 HP	12		20/2	5			6		28		
		12		7			8	20/2			SPARE
LIGHT- BRINE TANK	1.0		20/1	9			10				
SPARE			20/2	11			12	20/1		3.0	EYE WASH RECEPTACLE
SPARE				13			14		12.5		BLOCK HEATER OUTLETS
LIGHTS-SALT STORAGE-EXTERIOR	2.0		20/1	17			18		12.5		
SPACE				19			20		12.5		
									A	C	
									78.5	77	TOTAL CONNECTED LOAD (AMPERES PER PHASE)

**PANEL SCHEDULE**

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY

DESIGN BY J. S. Sandhu	CHECKED Jaswinder Gill	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 19M5727	TAHOE CITY SAND HOUSE ELEVATION AND DETAILS	SHEET 5	
DETAILS BY Ed D. Tapalla 3/11	CHECKED J. S. Sandhu		PROJECT NUMBER & PHASE 03000206041	POST MILE X		REVISION DATES (PRELIMINARY STAGE ONLY)	OF 5
QUANTITIES BY J. S. Sandhu	CHECKED Jaswinder Gill		UNIT 3596	DISREGARD PRINTS BEARING EARLIER REVISION DATES		3/21/11 3/21/11 12/1/11	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

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