

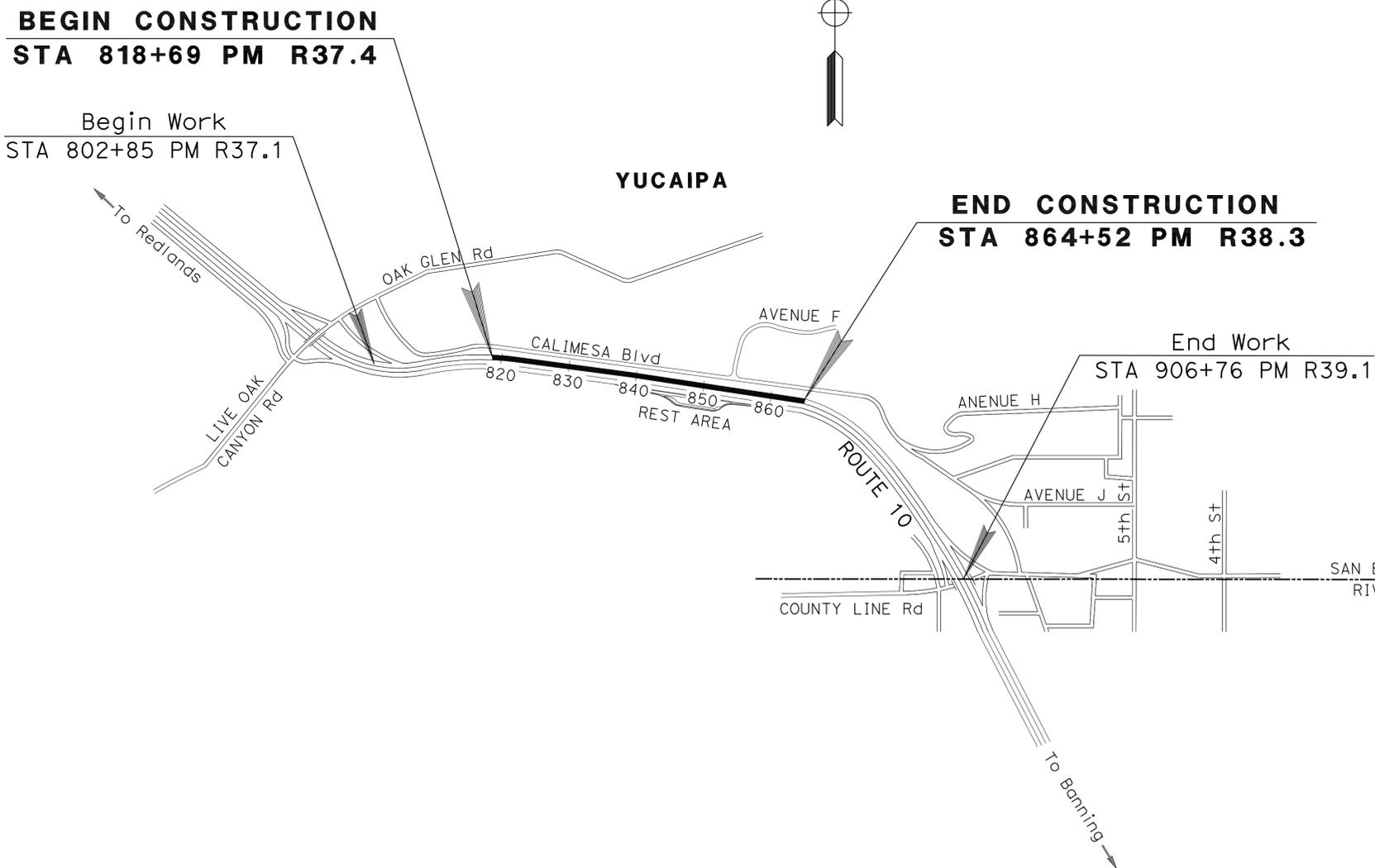
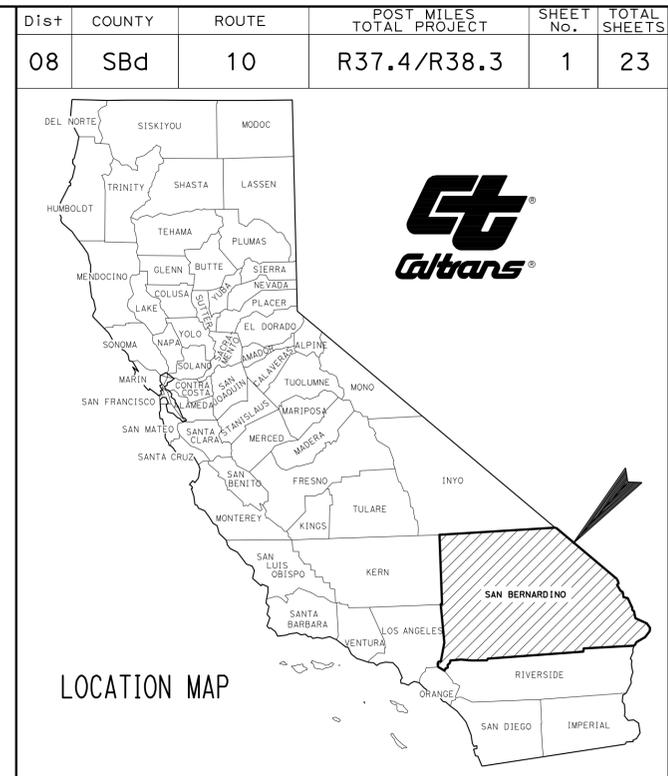
INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	TYPICAL CROSS SECTIONS
3-6	LAYOUTS
7	CONSTRUCTION DETAILS
8	CONSTRUCTION AREA SIGNS
9-12	TRAFFIC HANDLING PLANS
13	TRAFFIC HANDLING QUANTITIES
14	SUMMARY OF QUANTITIES
15-23	REVISED STANDARD PLANS

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

STATE OF CALIFORNIA **ACHSIMG-010-2(261)84E**  
**DEPARTMENT OF TRANSPORTATION**  
**PROJECT PLANS FOR CONSTRUCTION ON**  
**STATE HIGHWAY**  
**IN SAN BERNARDINO COUNTY**  
**IN YUCAIPA**  
**FROM 0.4 MILE EAST OF**  
**LIVE OAK CANYON ROAD OVERCROSSING**  
**TO 0.8 MILE WEST OF COUNTY LINE ROAD UNDERCROSSING**

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



NO SCALE

PROJECT MANAGER  
ALI HADAVI

DESIGN ENGINEER  
KEVIN DINH

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

*Behzad Sedighi* 3-15-12  
 PROJECT ENGINEER DATE  
 REGISTERED CIVIL ENGINEER

**BEHZAD SEDIGHI**  
 No. 50460  
 Exp. 6/30/13  
 CIVIL  
 STATE OF CALIFORNIA

June 04, 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.	<b>08-ON2404</b>
PROJECT ID	<b>0800000516</b>

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	R37.4/R38.3	2	23

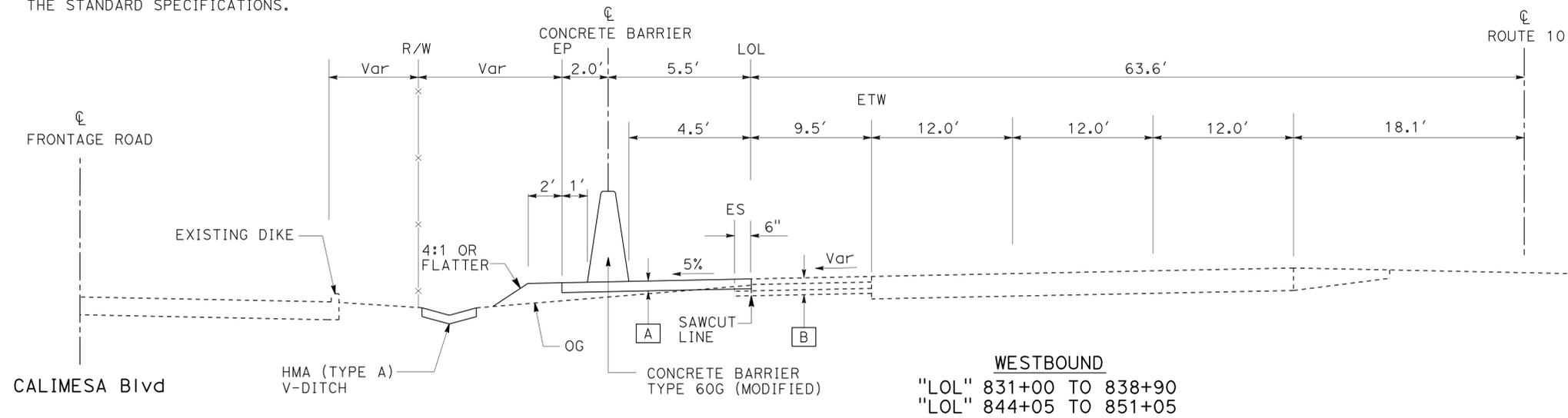
*Behzad Sedighi* 6-04-12  
 REGISTERED CIVIL ENGINEER DATE  
 6-04-12  
 PLANS APPROVAL DATE

BEHZAD SEDIGHI  
 No. 50460  
 Exp. 6/30/13  
 CIVIL

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

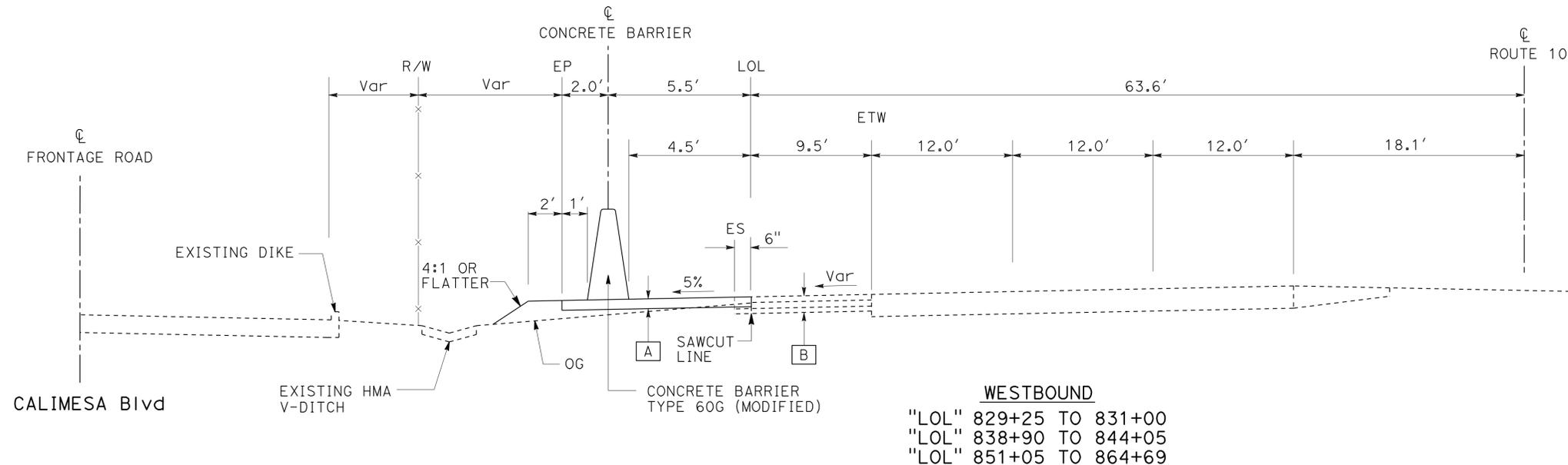
**NOTE:**

1. DIMENSIONS OF THE STRUCTURAL SECTION ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.



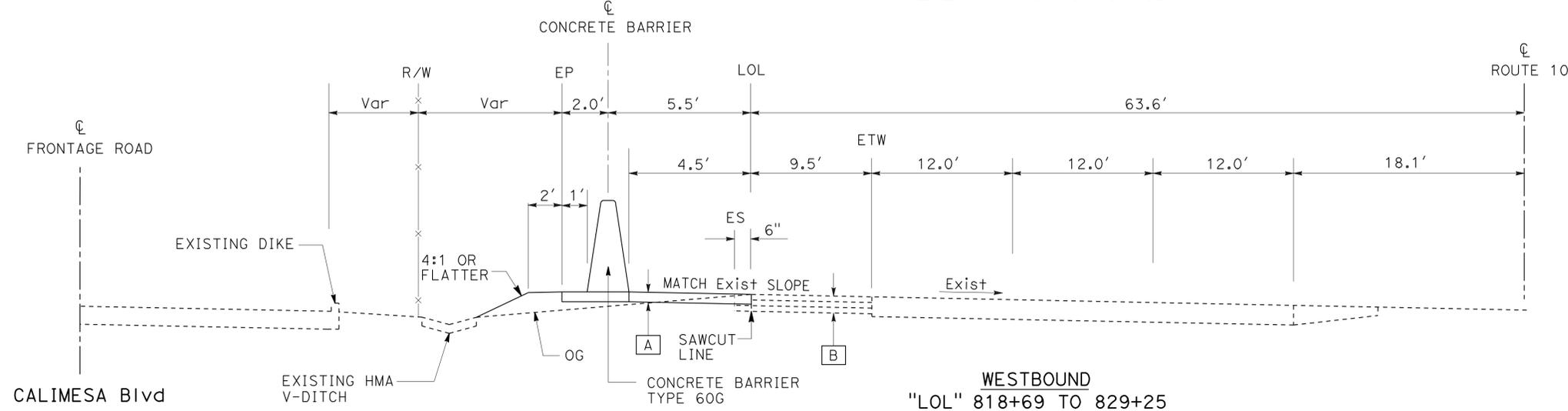
**DESIGN DESIGNATION**

	2010	2012	2032
ADT	107,700	112,500	175,300
DHV	7,350	7,720	12,630
TRUCK % ADT	16%	16%	17%
TRUCK % DHV	8%	8%	10%



**TYPICAL PAVEMENT STRUCTURE SECTIONS**

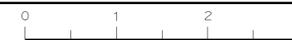
- A 0.25 HOT MIX ASPHALT (HMA) TYPE A
- B Exist  
 0.25' AC TYPE B  
 0.67' CLASS 2 AB  
 0.5' CLASS 2 AS



**TYPICAL CROSS SECTION**

NO SCALE

**X-1**



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	R37.4/R38.3	3	23

6-04-12  
 REGISTERED CIVIL ENGINEER DATE  
 BEHZAD SEDIGHI  
 No. 50460  
 Exp 6/30/13  
 CIVIL  
 STATE OF CALIFORNIA  
 REGISTERED PROFESSIONAL ENGINEER

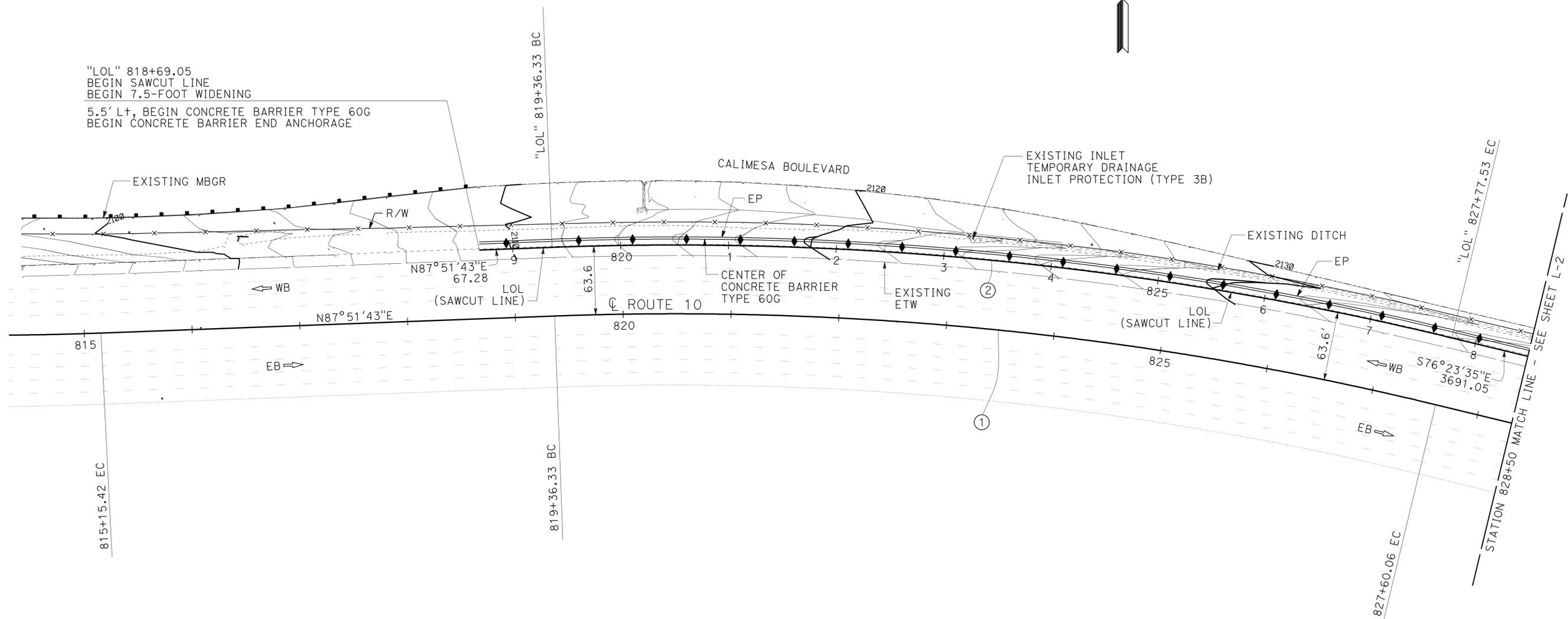
6-04-12  
 PLANS APPROVAL DATE

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.

**NOTES:**

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- FOR TEMPORARY DRAINAGE INLET PROTECTION DETAILS AND NOTES, SEE STANDARD PLAN T62
- FOR CONCRETE BARRIER TYPE 60G, END ANCHORAGE DETAILS, AND NOTES, SEE STANDARD PLANS A76D AND A76E
- FOR CONCRETE BARRIER TYPE 60G (Mod), SEE CONSTRUCTION DETAILS SHEET C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** OPERATIONS/SAFETY DESIGN  
 FUNCTIONAL SUPERVISOR: BEHZAD SEDIGHI  
 CALCULATED/DESIGNED BY: KEVIN DINH  
 CHECKED BY: BEHZAD SEDIGHI  
 REVISED BY: KEVIN DINH  
 DATE REVISED: BEHZAD SEDIGHI



**CURVE DATA**

No.	⊕	R	Δ	T	L
1		2997.53'	15°44'42"	414.47'	823.73'
2		3061.13'	15°44'42"	423.27'	841.20'

**LAYOUT**  
SCALE: 1" = 50'

**L-1**

LAST REVISION: 06-04-12 DATE PLOTTED => 30-MAY-2012 TIME PLOTTED => 1:3:26

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	R37.4/R38.3	4	23

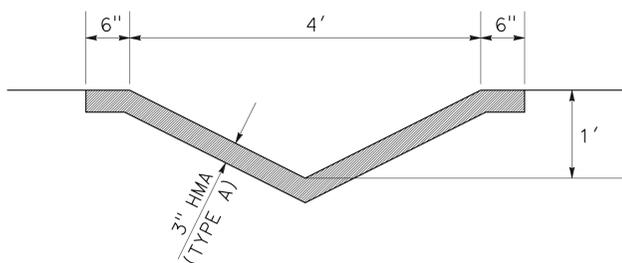
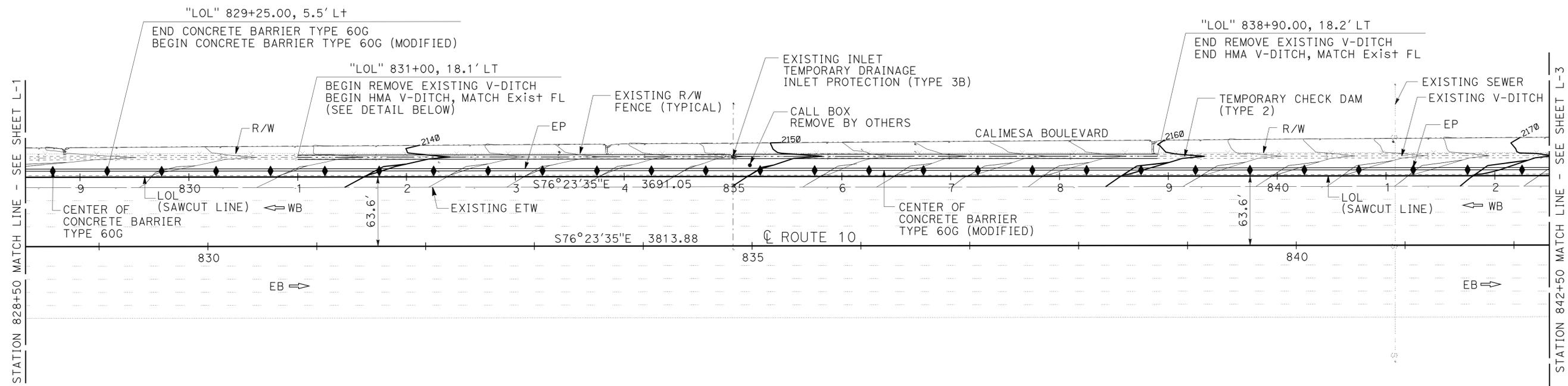
  

<i>Behzad Sedighi</i>	6-04-12
REGISTERED CIVIL ENGINEER	DATE
6-04-12	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER
<b>BEHZAD SEDIGHI</b>
No. 50460
Exp 6/30/13
CIVIL

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



**LAYOUT**  
SCALE: 1" = 50'

**L-2**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR
<b>Caltrans</b> OPERATIONS/SAFETY DESIGN	BEHZAD SEDIGHI	BEHZAD SEDIGHI	KEVIN DINH
		CHECKED BY	DATE REVISED

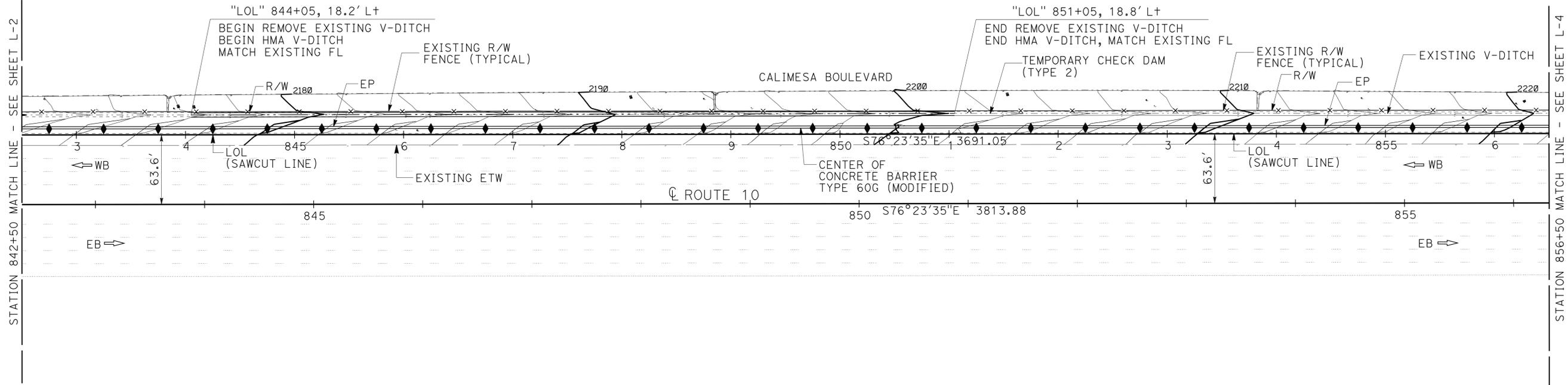
LAST REVISION    DATE PLOTTED => 30-MAY-2012    TIME PLOTTED => 13:26

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	R37.4/R38.3	5	23

*Behzad Sedighi* 6-04-12  
 REGISTERED CIVIL ENGINEER DATE  
 6-04-12  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
**BEHZAD SEDIGHI**  
 No. 50460  
 Exp. 6/30/13  
 CIVIL  
 STATE OF CALIFORNIA

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



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	KEVIN DINH	REVISOR BY	
<b>Caltrans</b> OPERATIONS/SAFETY DESIGN	BEHZAD SEDIGHI	CHECKED BY	BEHZAD SEDIGHI	DATE REVISED	

**LAYOUT**  
SCALE: 1" = 50'

**L-3**

LAST REVISION | DATE PLOTTED => 30-MAY-2012  
 06-04-12 | TIME PLOTTED => 13:26

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	R37.4/R38.3	6	23

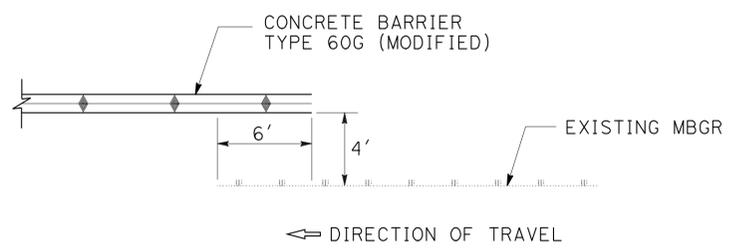
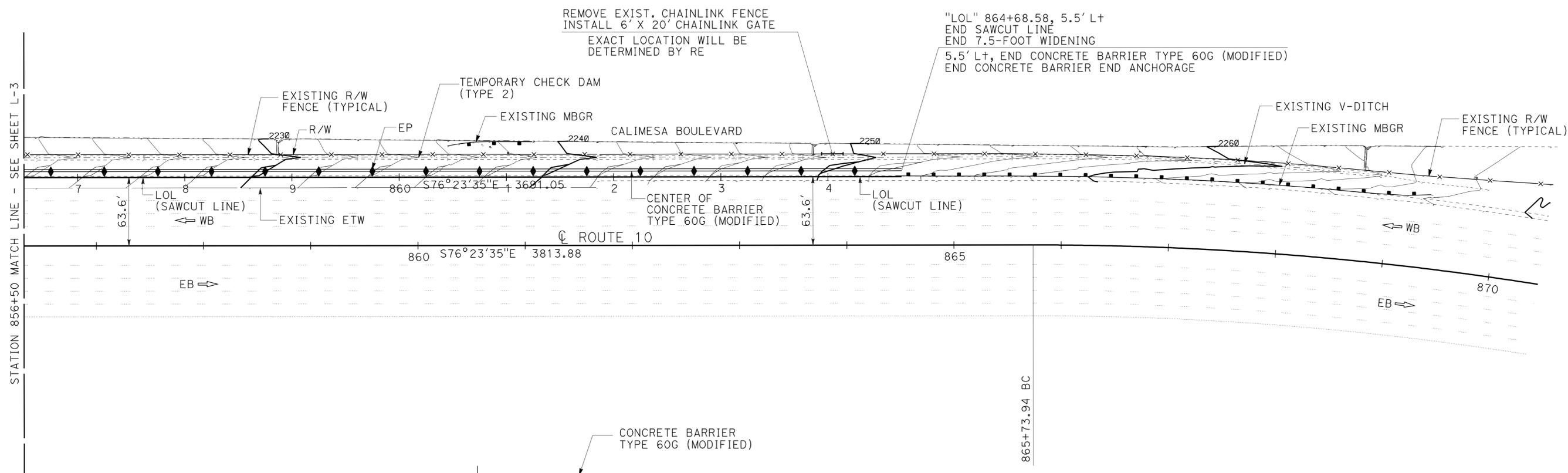
  

<i>Behzad Sedighi</i>	6-04-12
REGISTERED CIVIL ENGINEER	DATE
6-04-12	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER
BEHZAD SEDIGHI
No. 50460
Exp 6/30/13
CIVIL

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



**END DETAIL OF MBGR AND CONCRETE BARRIER TYPE 60G (MODIFIED)**  
NO SCALE

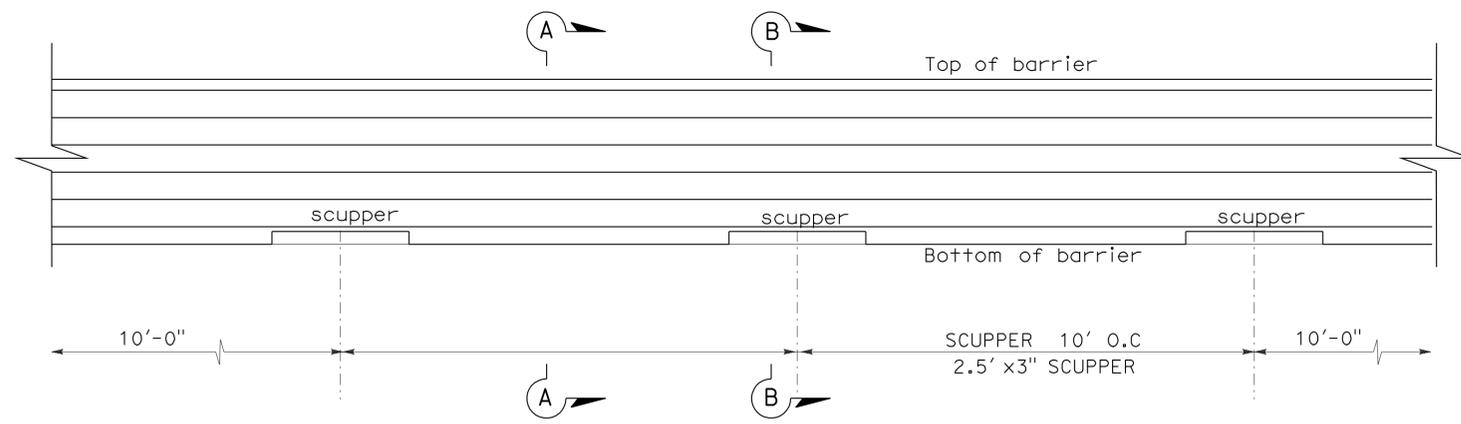
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	KEVIN DINH	REVISOR BY	KEVIN DINH
Operations/Safety Design	BEHZAD SEDIGHI	CHECKED BY	BEHZAD SEDIGHI	DATE REVISED	

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	R37.4/R38.3	7	23

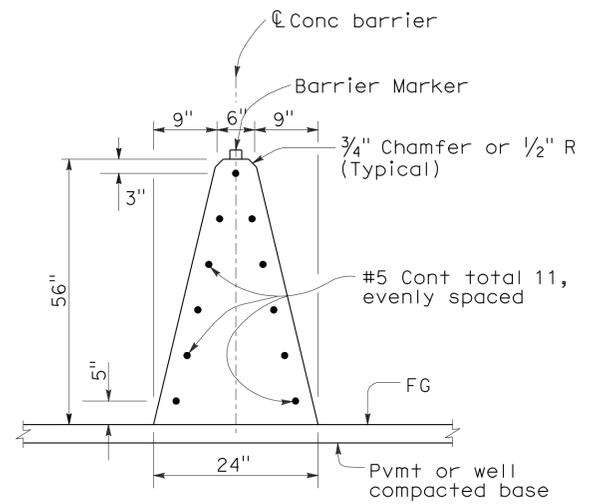
*Behzad Sedighi* 6-04-12  
 REGISTERED CIVIL ENGINEER DATE  
 6-04-12  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
**BEHZAD SEDIGHI**  
 No. 50460  
 Exp 6/30/13  
 CIVIL  
 STATE OF CALIFORNIA

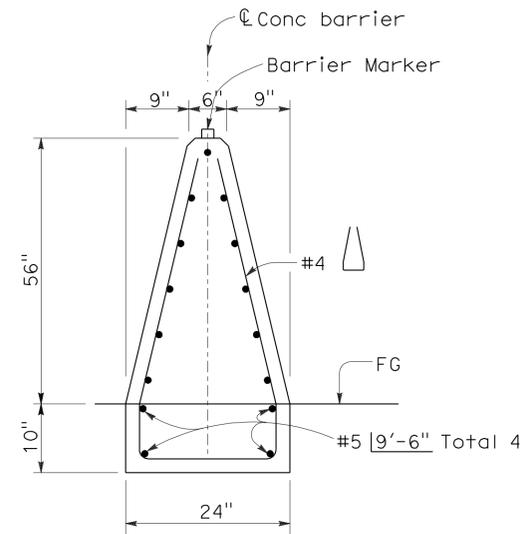
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



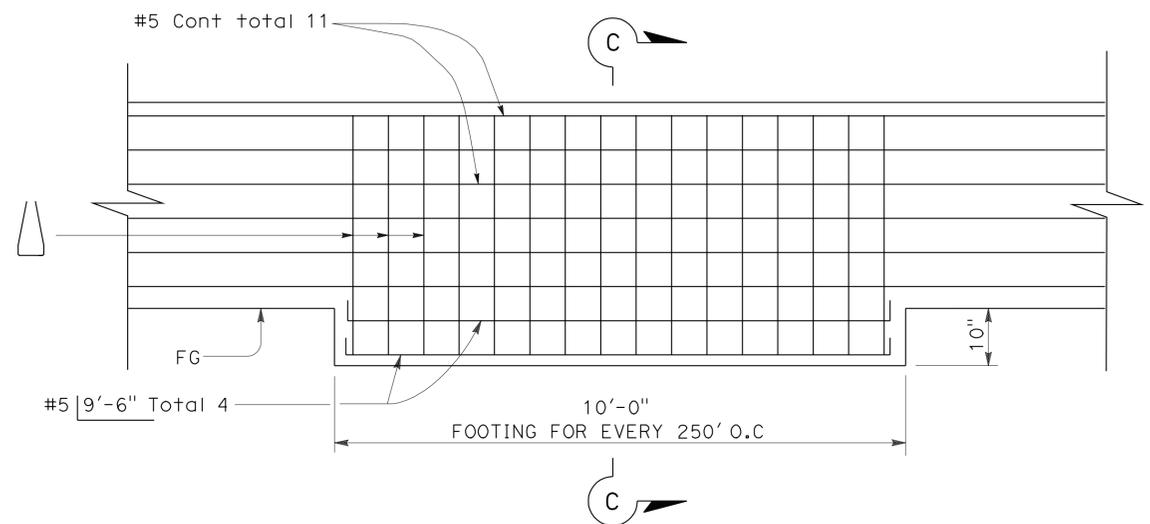
**CONCRETE BARRIER TYPE 60G MODIFIED END ANCHORAGE**



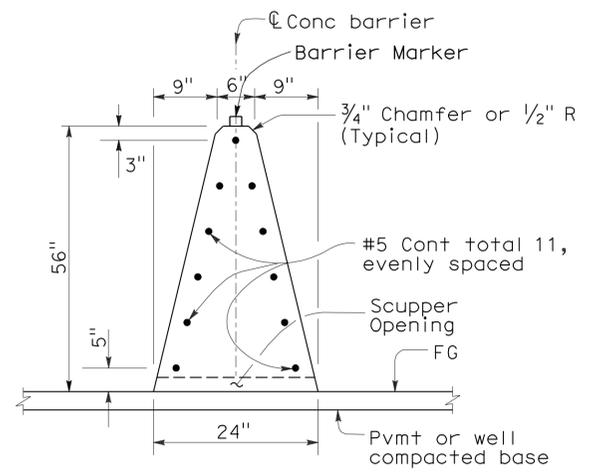
SECTION A-A  
TYPE 60G MOD.



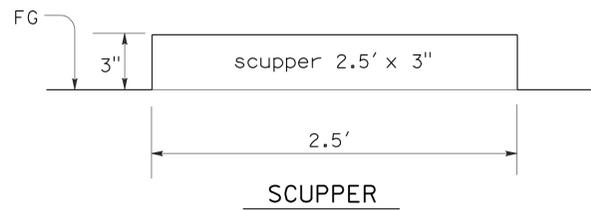
SECTION C-C  
TYPE 60G MOD.



**CONCRETE BARRIER TYPE 60G  
MIDDLE SECTION FOOTING @250, O.C**



SECTION B-B  
TYPE 60G MOD.



SCUPPER

**NOTES:**

1. See Standard Plan A76D for Concrete Barrier Type 60G.
2. Footing monolithic or doweled with 2-#8 x 8" @ 2'-0". The footing is required at concrete barrier ends and at interruptions in concrete barrier.
3. Expansion joints in concrete barrier shall be located at all deck, pavement and principal wall joints. Expansion joint filler material shall be the same size as joint or 1/2" minimum.
4. 10' x 10' Concrete barrier footing for begin, end and every 250 feet sections.
5. Construct the Scupper 2.5'x3" at 10' center to center and ignore the footing sections.
6. White Barrier Marker at 48' center to center.

**CONSTRUCTION DETAILS  
CONCRETE BARRIER TYPE 60G (MODIFIED)**

NO SCALE

**C-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 OPERATIONS/SAFETY DESIGN  
 FUNCTIONAL SUPERVISOR: BEHZAD SEDIGHI  
 CALCULATED/DESIGNED BY: KEVIN DINH  
 CHECKED BY: BEHZAD SEDIGHI  
 REVISED BY: DATE  
 REVISIONS:

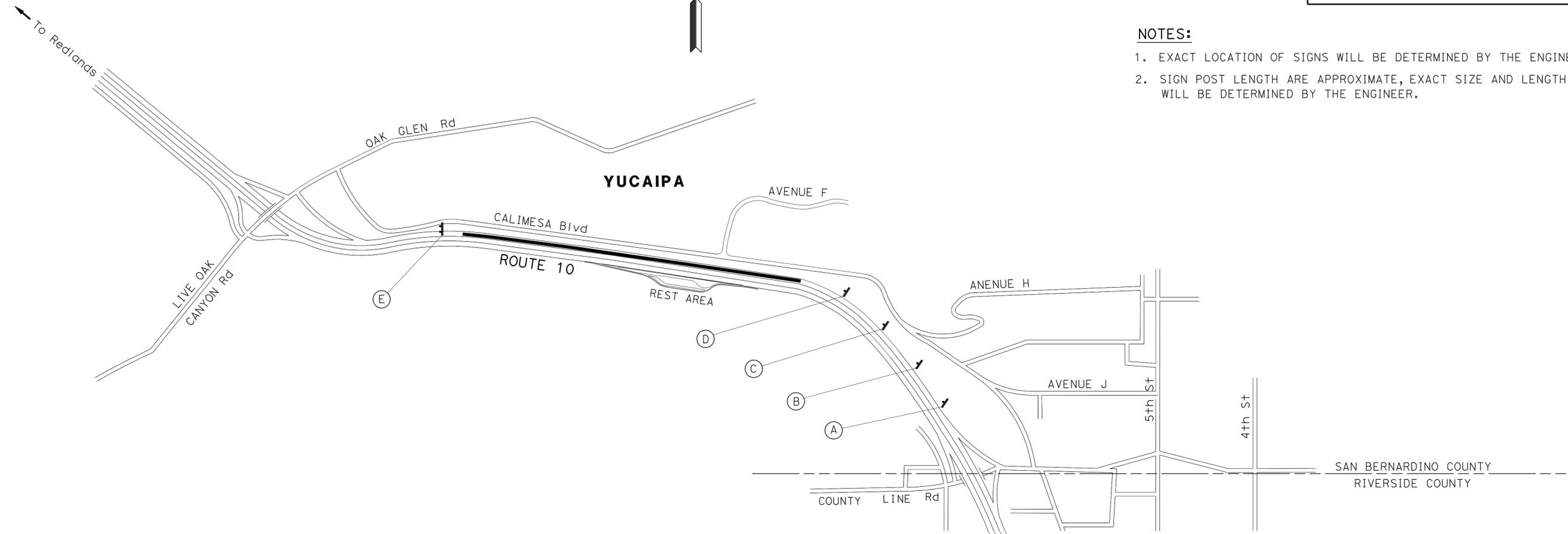
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	R37.4/R38.3	8	23

*W.E. Wasser* 6-04-12  
 REGISTERED CIVIL ENGINEER DATE  
 6-04-12  
 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.

**NOTES:**

1. EXACT LOCATION OF SIGNS WILL BE DETERMINED BY THE ENGINEER.
2. SIGN POST LENGTH ARE APPROXIMATE, EXACT SIZE AND LENGTH WILL BE DETERMINED BY THE ENGINEER.



**STATIONARY MOUNTED CONSTRUCTION AREA SIGNS**

SIGN (X) LETTER	SIGN CODE		PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
	FEDERAL	CALIFORNIA				
(A)	W20-1		48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	1
(B)	W21-5		36" x 36"	SHOULDER WORK	1 - 6" x 6"	1
(C)	W21-5b		48" x 48"	RIGHT SHOULDER CLOSED 1800 FT	1 - 6" x 6"	1
(D)		C30(CA)	30" x 30"	SHOULDER CLOSED	1 - 6" x 6"	1
	W7-3a		24" x 18"	NEXT 1 MILE		
(E)	G20-2		48" x 24"	END ROAD WORK	2 - 4" x 4"	1

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

FUNCTIONAL SUPERVISOR	W.E. WASSER
CALCULATED/DESIGNED BY	CHECKED BY
DEAN TO	W.E. WASSER
REVISED BY	DATE REVISED

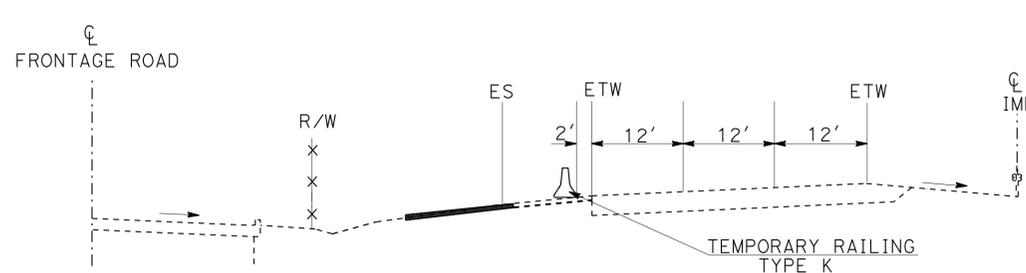
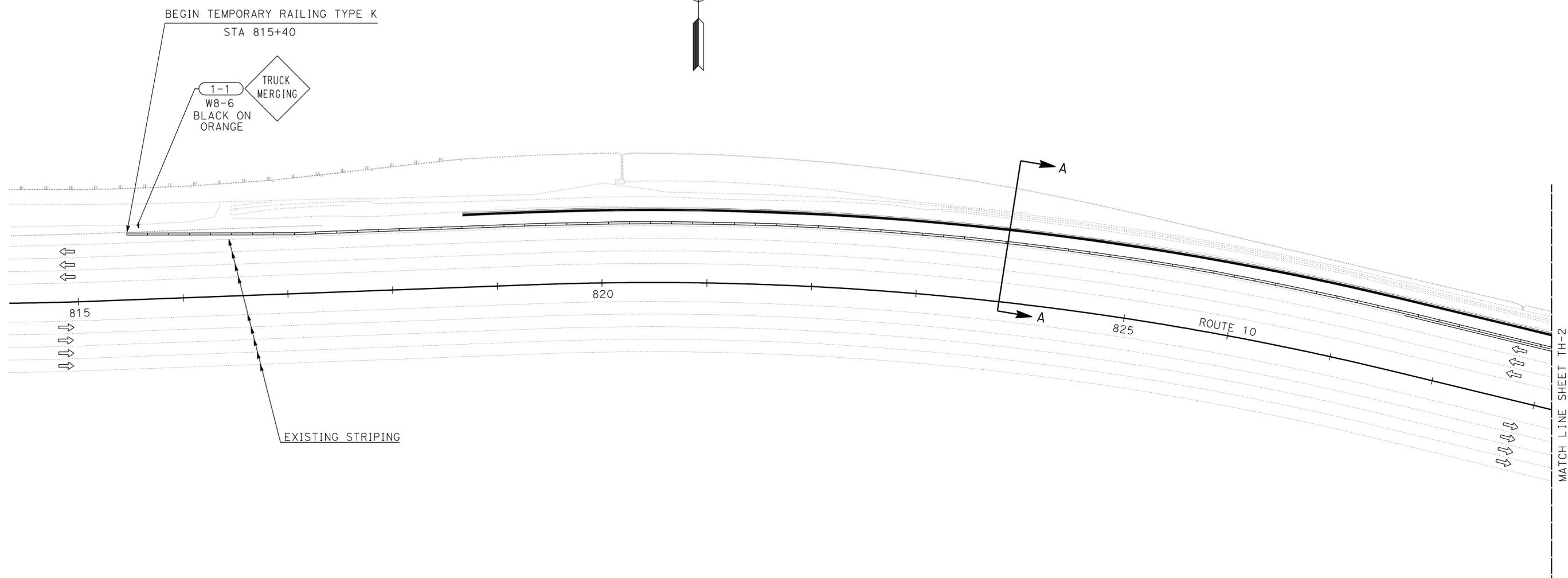
APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

**CONSTRUCTION AREA SIGN**  
NO SCALE  
**CS-1**



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	R37.4/R38.3	9	23
<i>W.E. Wasser</i> 6-04-12 REGISTERED CIVIL ENGINEER DATE			REGISTERED PROFESSIONAL ENGINEER <b>W.E. WASSER</b> No. 37378 Exp 6/30/12 CIVIL STATE OF CALIFORNIA		
6-04-12 PLANS APPROVAL DATE					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	DEAN TO	REVISED BY
<b>Caltrans</b> TRAFFIC DESIGN	W.E. WASSER	W.E. WASSER	W.E. WASSER	DATE REVISION



**SECTION A-A**  
NO SCALE

**TRAFFIC HANDLING PLAN**

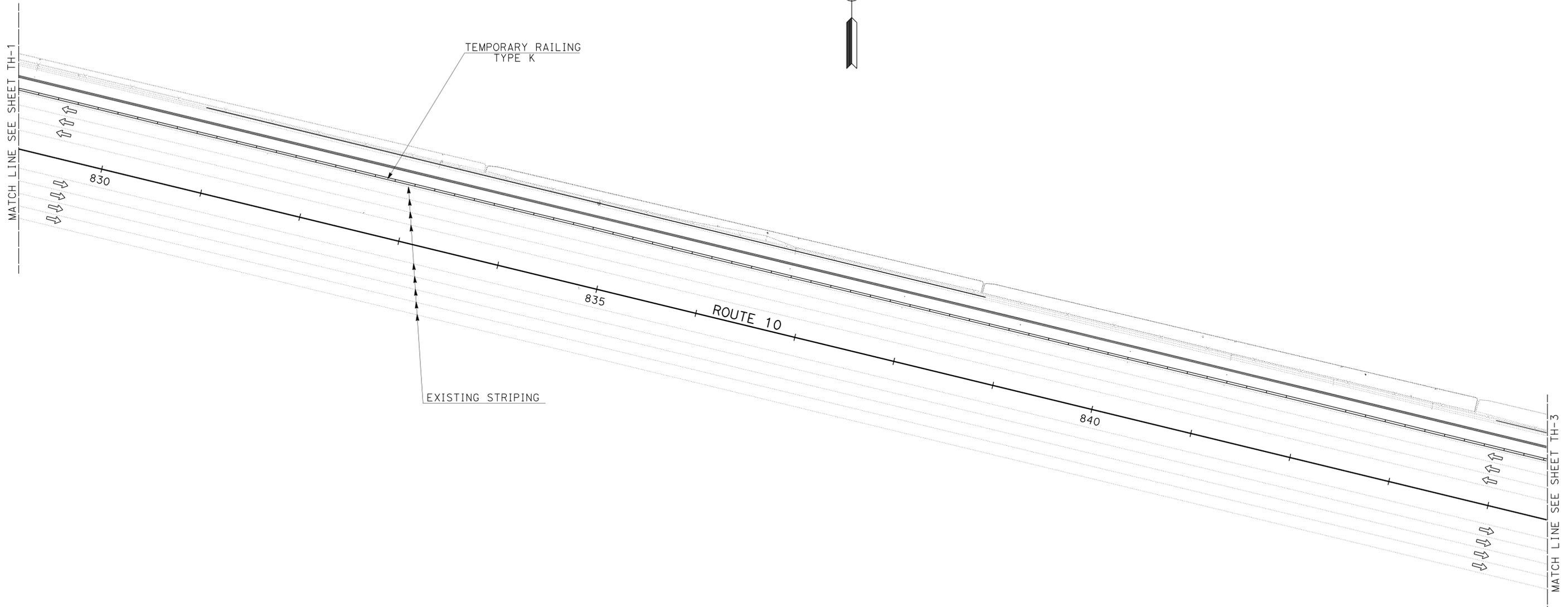
SCALE: 1"=100'

**TH-1**

APPROVED FOR TRAFFIC HANDLING WORK ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	R37.4/R38.3	10	23
<i>W.E. Wasser</i> REGISTERED CIVIL ENGINEER			6-04-12 DATE		
6-04-12 PLANS APPROVAL DATE			<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	DEAN TO	REVISED BY
<b>Caltrans</b>	TRAFFIC DESIGN	W.E. WASSER	W.E. WASSER	DATE REVISED

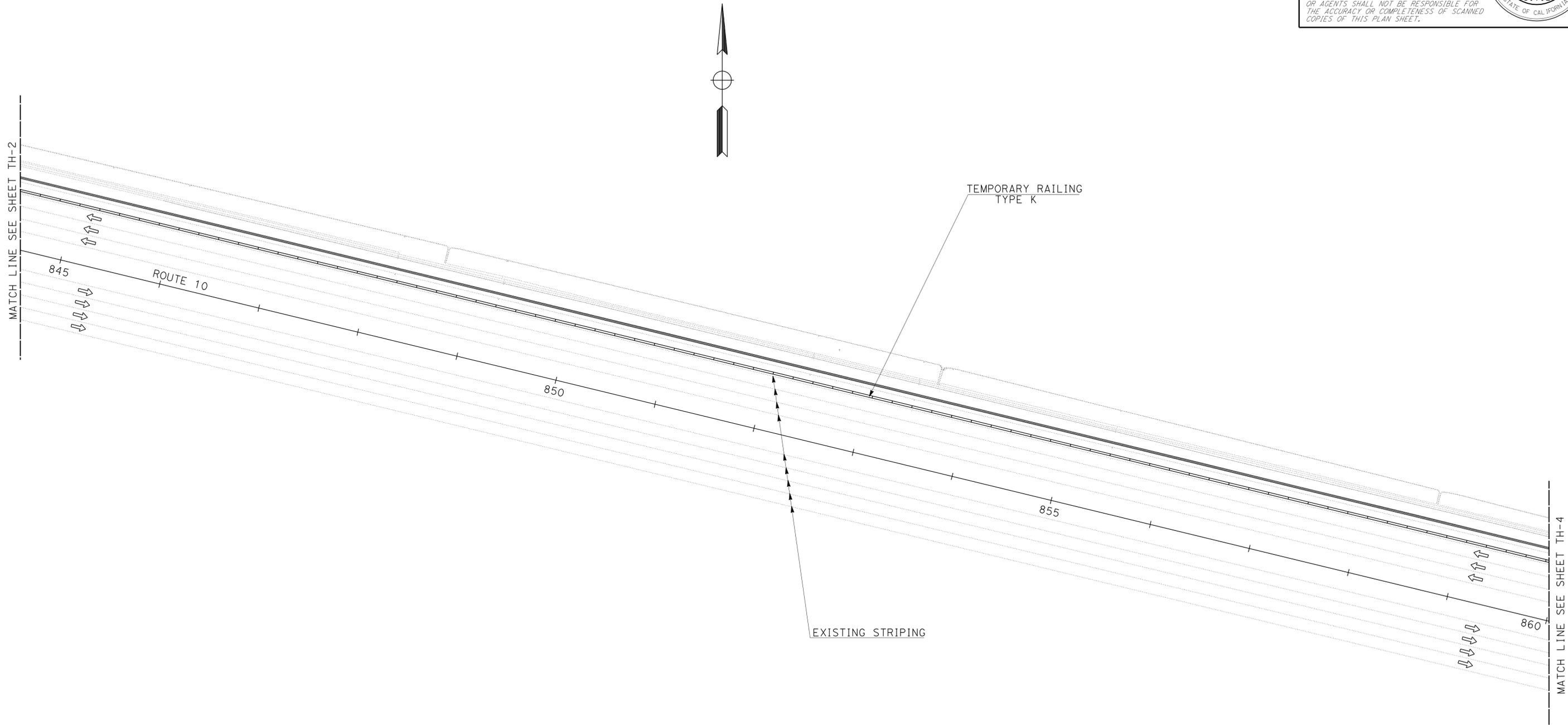


**TRAFFIC HANDLING PLAN**  
**TH-2**  
 SCALE: 1"=100'

APPROVED FOR TRAFFIC HANDLING WORK ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	R37.4/R38.3	11	23
<i>W.E. Wasser</i> 6-04-12 REGISTERED CIVIL ENGINEER DATE					
6-04-12 PLANS APPROVAL DATE			<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	DEAN TO	REVISED BY
<b>Caltrans</b> TRAFFIC DESIGN	W.E. WASSER	CHECKED BY	W.E. WASSER	DATE REVISED

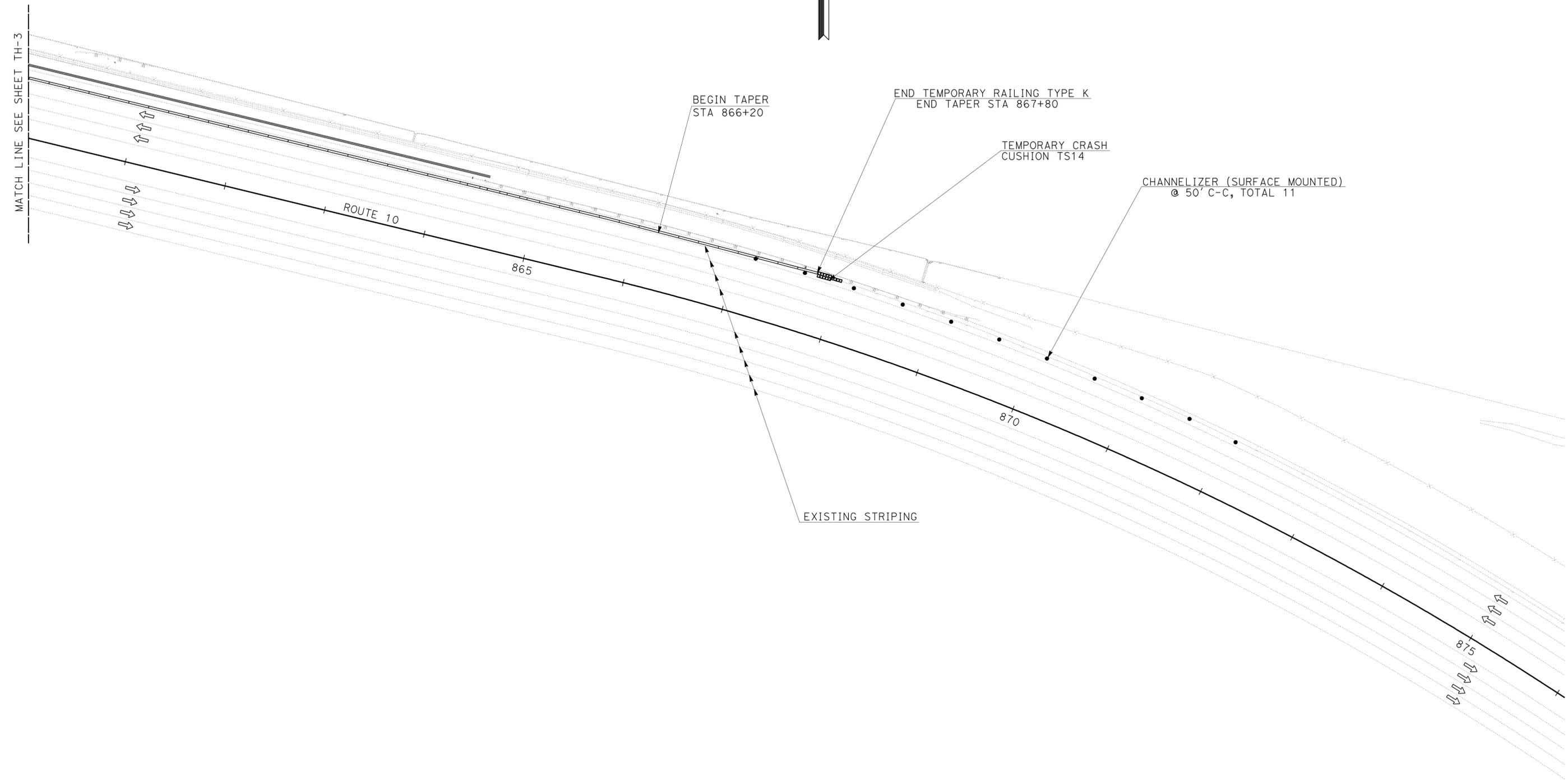


APPROVED FOR TRAFFIC HANDLING WORK ONLY

**TRAFFIC HANDLING PLAN**  
 SCALE: 1"=100'  
**TH-3**

LAST REVISION    DATE PLOTTED => 30-MAY-2012    06-04-12    TIME PLOTTED => 13:26

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	R37.4/R38.3	12	23
<i>W.E. Wasser</i> REGISTERED CIVIL ENGINEER			6-04-12 DATE		
6-04-12 PLANS APPROVAL DATE			<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>		



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	DEAN TO	REVISED BY
<b>Caltrans</b> TRAFFIC DESIGN	W.E. WASSER	CHECKED BY	W.E. WASSER	DATE REVISED

APPROVED FOR TRAFFIC HANDLING WORK ONLY

**TRAFFIC HANDLING PLAN**  
**TH-4**

SCALE: 1"=100'

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	R37.4/R38.3	13	23

*W.E. Wasser* 6-04-12  
 REGISTERED CIVIL ENGINEER DATE

6-04-12  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 W.E. WASSER  
 No. 37378  
 Exp. 6/30/12  
 CIVIL  
 STATE OF CALIFORNIA

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** TRAFFIC DESIGN  
 FUNCTIONAL SUPERVISOR  
 W.E. WASSER  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 DEAN TO  
 W.E. WASSER  
 REVISED BY  
 DATE REVISED

### MISCELLANEOUS

ITEM	LF	EA
TEMPORARY K-RAIL	5240	
CHANNELIZER (SURFACE MOUNTED)		11
TEMPORARY CRASH CUSHION TS14		14 (MODULES)
PORTABLE CHANGEABLE MESSAGE SIGN		2

### STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No. X-X	SIGN CODE		PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
	FEDERAL	CALIFORNIA				
1-1	W8-6		48" x 48"	TRUCK MERGING	1 - 6" x 6"	1

## TRAFFIC HANDLING QUANTITIES THQ-1



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	R37.4/R38.3	14	23

*Behzad Sedighi* 6-04-12  
 REGISTERED CIVIL ENGINEER DATE

6-04-12  
 PLANS APPROVAL DATE

BEHZAD SEDIGHI  
 No. 50460  
 Exp 6/30/13  
 CIVIL  
 STATE OF CALIFORNIA

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

### PAVEMENT STRUCTURE QUANTITIES

STATION	HOT MIX ASPHALT (TYPE A)	PRIME COAT
	TON	TON
818+69.05 TO 864+68.58	851	4.0
FROM V-DITCH QUANTITY TABLE	156	1.0
<b>TOTAL</b>	1007	5

### CONCRETE BARRIER

STATION	TYPE 60G	(N) BARRIER MARKER
	LF	EA
818+69.05 TO 829+25.00	1,056	
829+25.00 TO 864+68.58		
818+69.05 TO 864+68.58		100
<b>TOTAL</b>	1,056	100

### EARTHWORK QUANTITIES

STATION	ROADWAY EXCAVATION	(N) EMBANKMENT FILL	IMPORTED BORROW
	CY	CY	CY
818+69.05 TO 864+68.58	198	278	80
<b>TOTAL</b>	198	278	80

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

### FENCE AND GATE QUANTITIES

STATION	(N) REMOVE FENCE (TYPE CL-6)	10' CHAIN LINK GATE (TYPE CL-6)
	LF	EA
863+94.1 TO 864+14.1	20	2
<b>TOTAL</b>	20	2

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

### EROSION CONTROL AND TEMPORARY CONSTRUCTION BMPs

STATION	BONDED FIBER MATRIX	TEMP. CHECK DAM	TEMP. INLET PROTECTION	TEMP. CONCRETE WASHOUT (BIN)
	SQFT	LF	EA	EA
818+49 TO 864+71	46,220			2
835+00 TO 861+00		30	2	
<b>TOTAL</b>	46,220	30	2	2

### V-DITCH QUANTITIES

STATION	REMOVE AC V-DITCH	PLACE HMA (MISCELLANEOUS AREA)	HOT MIX ASPHALT (TYPE A)	PRIME COAT
	CY	SQYD	TON	TON
830+85.85 TO 838+72.78	40.8	479	82.5	0.5
843+88.18 TO 850+88.18	36.2	426	73.5	0.5
<b>TOTAL</b>	77	905	156	1.0

## SUMMARY OF QUANTITIES

Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** OPERATIONS/SAFETY DESIGN

KEVIN DINH  
 BEHZAD SEDIGHI

BEHZAD SEDIGHI

BEHZAD SEDIGHI

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	10	R37.4/R38.3	15	23

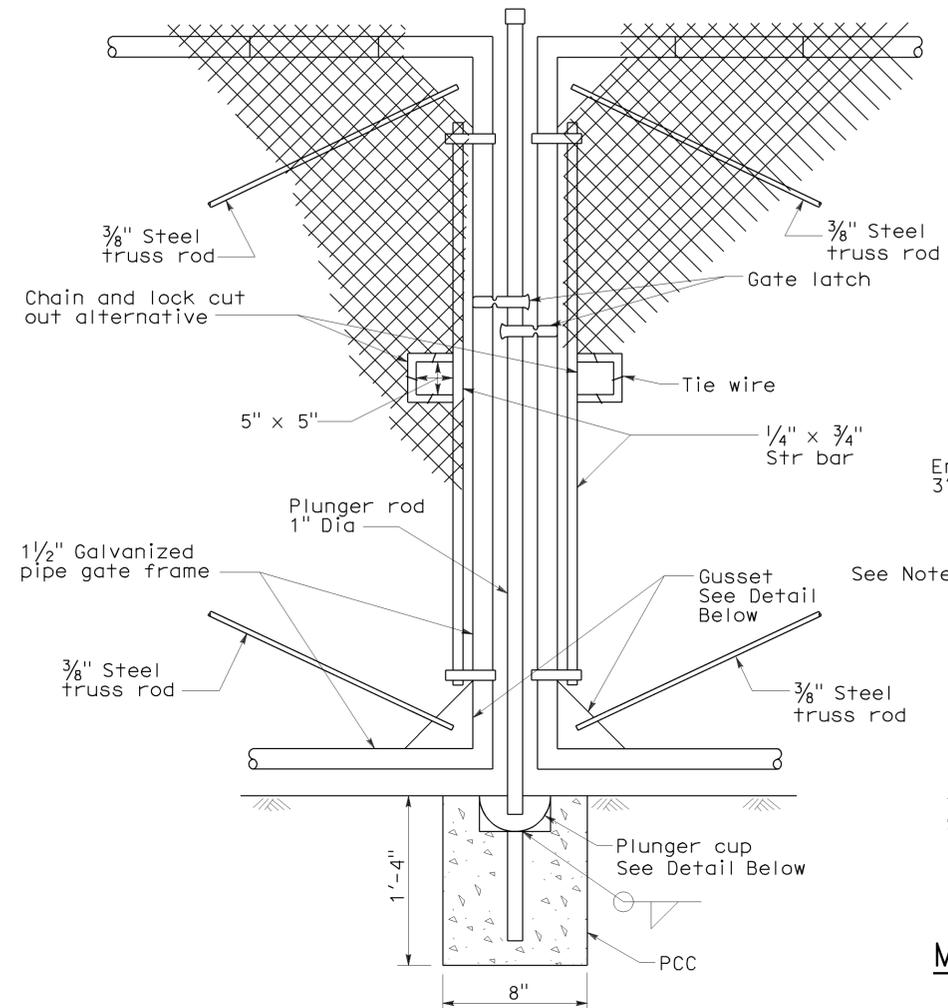
Glenn DeCou  
 REGISTERED CIVIL ENGINEER  
 No. C34547  
 Exp. 9-30-09  
 CIVIL  
 STATE OF CALIFORNIA

June 5, 2009  
 PLANS APPROVAL DATE

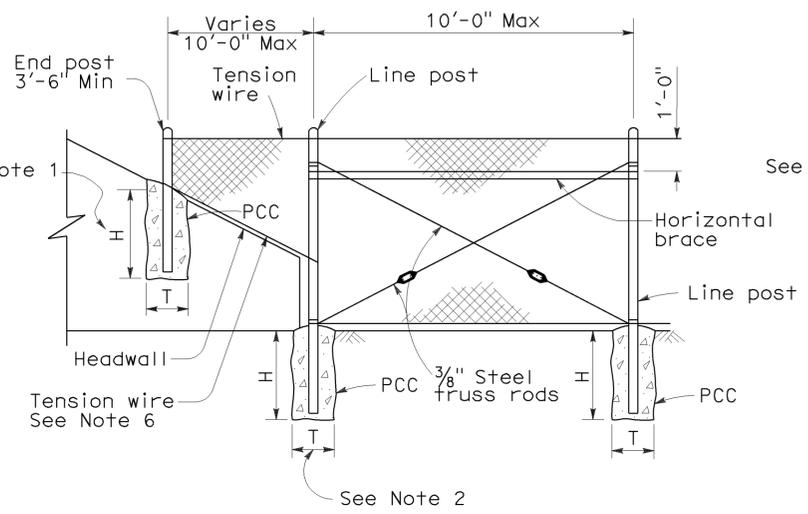
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To accompany plans dated 6-04-12

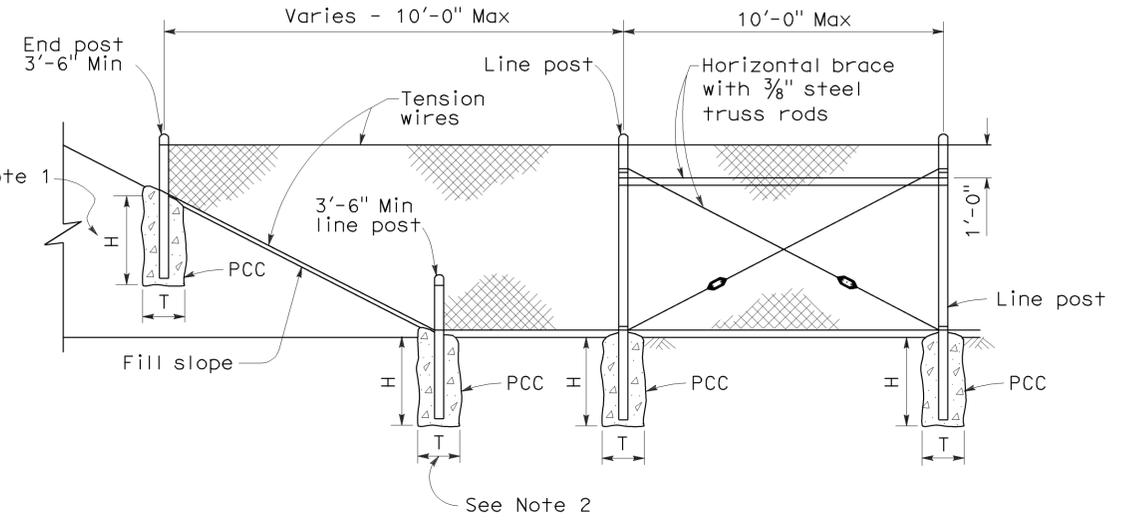
- NOTES:**
- H is 2'-6" for fabric less than 5'-0" high.  
H is 3'-0" for fabric 5'-0" and over.
  - T is not less than 3 times maximum cross section of post with minimum of 8".
  - Arms with barbed wire to be used where shown on plans.
  - See Revised Standard Plan RSP A85 for Chain Link Fencing dimensions.
  - Reinforcing must comply with ASTM A 706.
  - See Detail A on New Standard Plan NSP A86B for connection at headwall.



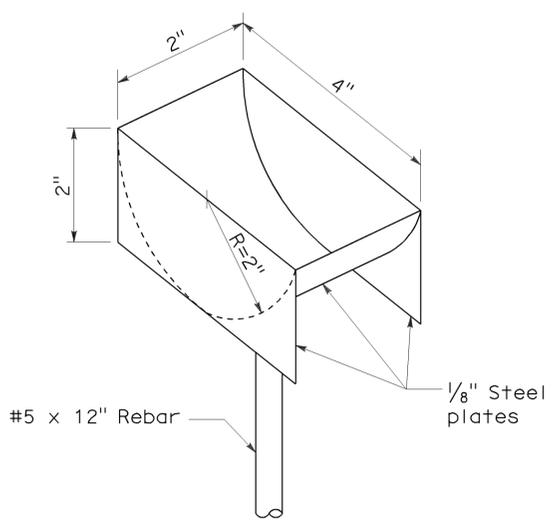
**TYPICAL DOUBLE GATE REMOVABLE CENTER POST**



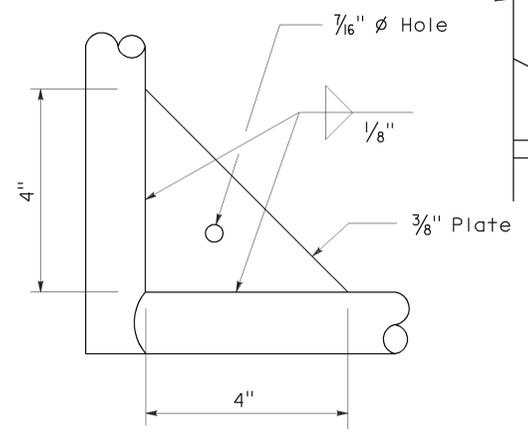
**METHOD OF TYING FENCE TO HEADWALL**



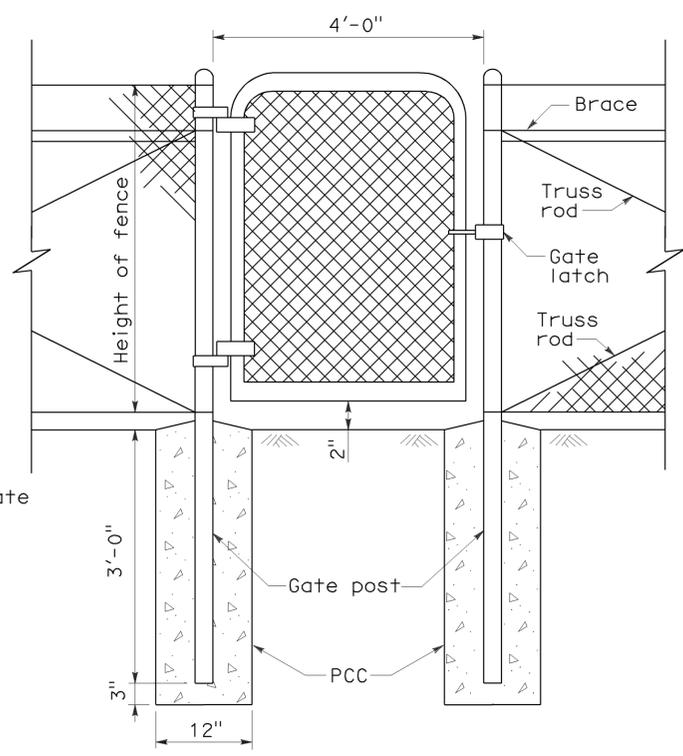
**METHOD OF ERECTING FENCE FOR FILL SLOPE**



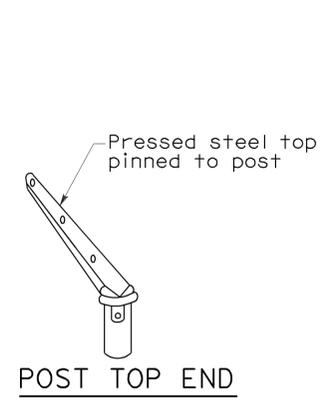
**PLUNGER CUP DETAIL**



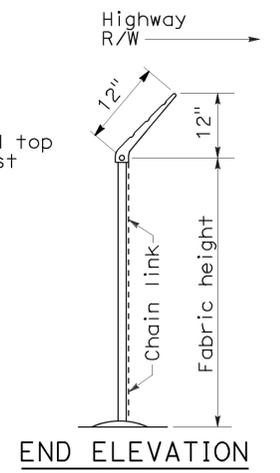
**GUSSET DETAIL**



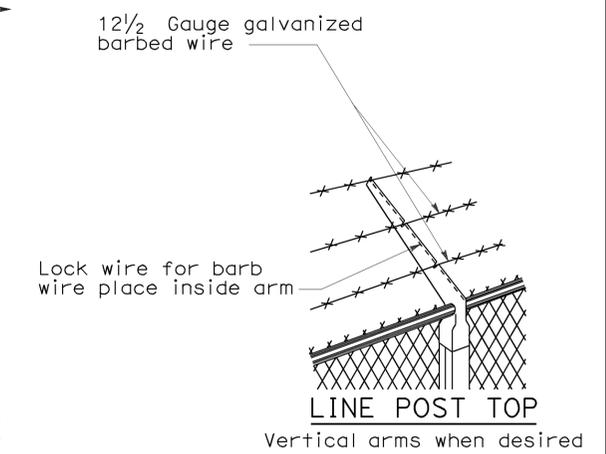
**WALK GATE**



**POST TOP END**



**BARBED WIRE POST TOP**  
See Note 3



**LINE POST TOP**

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**CHAIN LINK FENCE DETAILS**  
 NO SCALE

NSP A85A DATED JUNE 5, 2009 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

**NEW STANDARD PLAN NSP A85A**

2006 NEW STANDARD PLAN NSP A85A

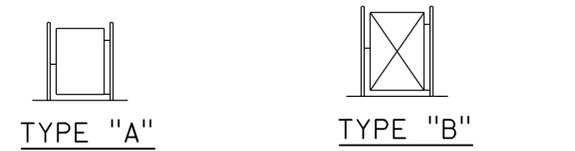
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	10	R37.4/R38.3	16	23

Glenn DeCou  
 REGISTERED CIVIL ENGINEER  
 No. C34547  
 Exp. 9-30-09  
 STATE OF CALIFORNIA

June 5, 2009  
 PLANS APPROVAL DATE

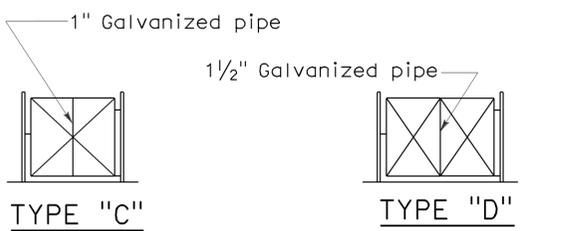
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 6-04-12



**TYPE "A"**  
3' and 6' Single  
6' and 12' Double

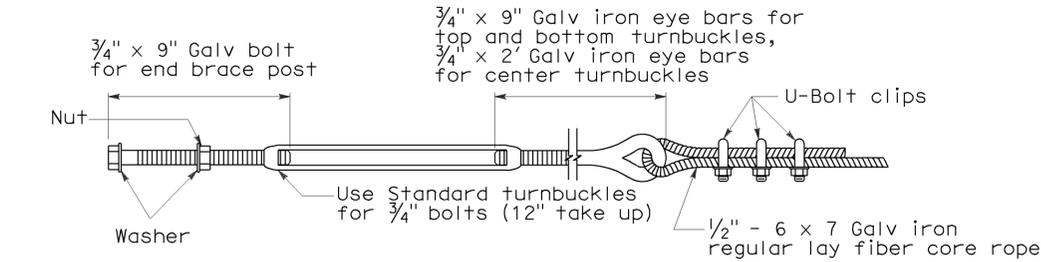
**TYPE "B"**  
Over 6' to 12' Single.  
Over 12' to 24' Double



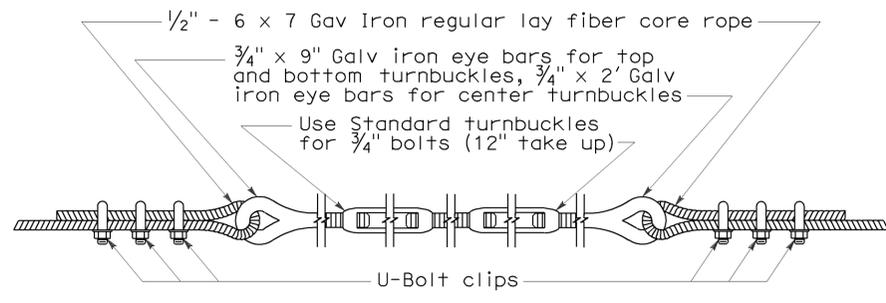
**TYPE "C"**  
Over 12' to 18' Single  
Over 24' to 36' Double.

**TYPE "D"**  
Over 18' to 24' Single  
Over 36' to 48' Double

**TYPICAL FRAMEWORK SHOWING NUMBER OF BAYS IN GATE**



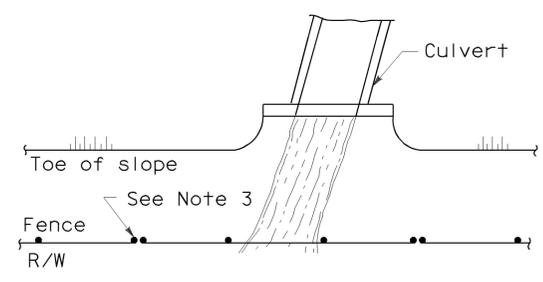
**TURNBUCKLE A**



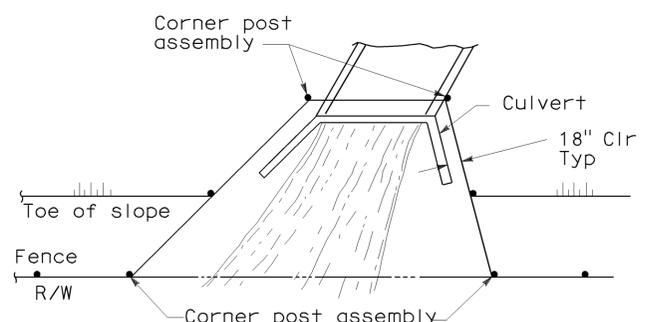
**TURNBUCKLE B**

**NOTES:**

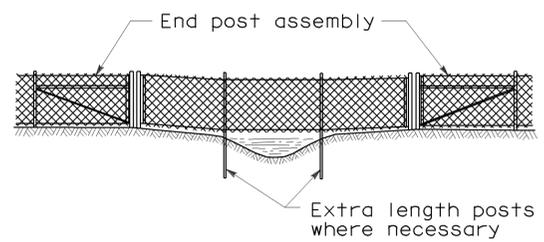
1. All material for abutment connection to be galvanized.
2. The chain link fabric shall be replaced by barbed wire strands at 12" maximum centers between the double posts.
3. When the width of the culvert makes it necessary to anchor a post to the top of the culvert, a cast iron shoe or other device approved by the Engineer shall be used.
4. Fencing over stream and around headwall may also use Barbed Wire or Wire Mesh fencing with either wood post or steel post installation.
5. See Revised Standard Plan RSP A85 for Chain Link fence dimensions. See Standard Plan A86 for Barbed Wire and Wire Mesh fence dimensions and for wood post and steel post installation.



**PLAN**

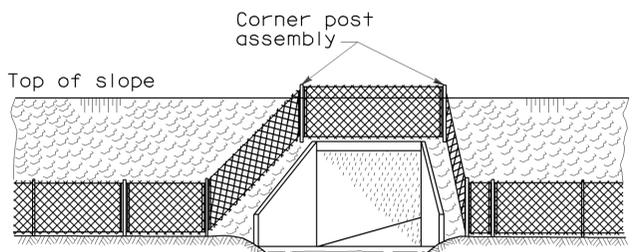


**PLAN**



**ELEVATION**

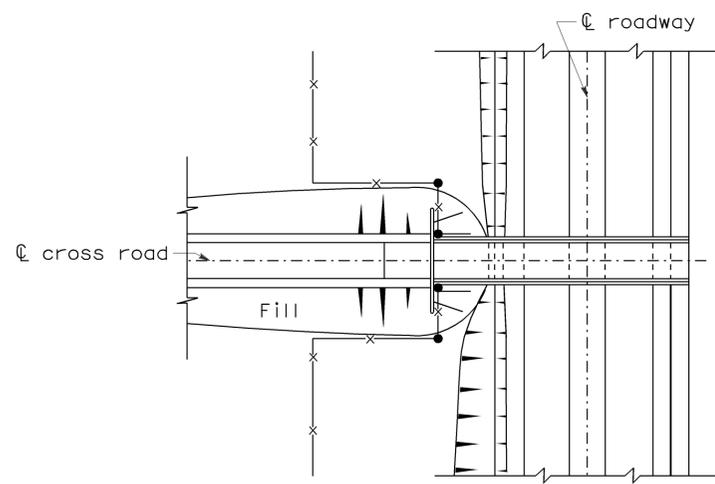
**INSTALLATION OVER STREAM**



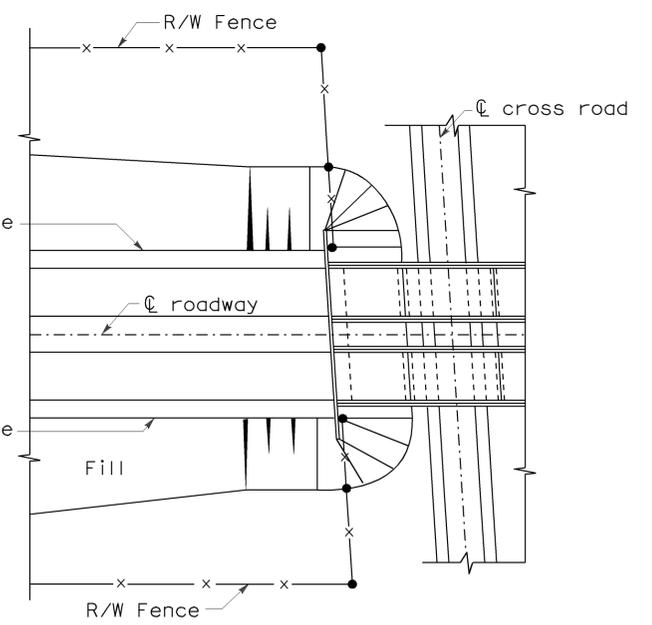
**ELEVATION**

**INSTALLATION AROUND HEADWALL**

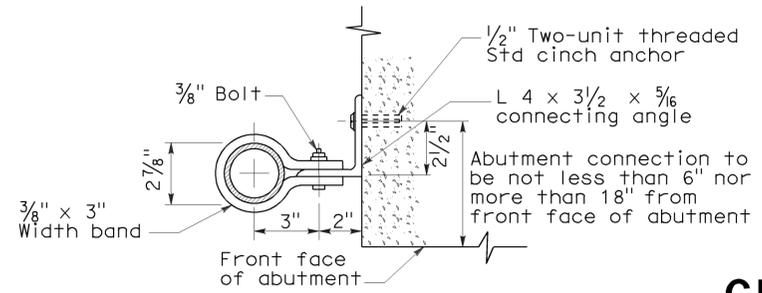
See Note 4



**PLAN OF ROADWAY - UNDERPASS**



**PLAN OF ROADWAY - OVERPASS**



**ABUTMENT CONNECTION**

**TYPICAL INSTALLATION AT BRIDGES**

**CHAIN LINK FENCE DETAILS**

NO SCALE

NSP A85B DATED JUNE 5, 2009 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

**NEW STANDARD PLAN NSP A85B**

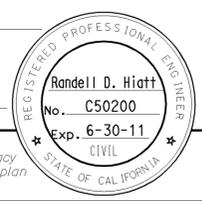
2006 NEW STANDARD PLAN NSP A85B

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	R37.4/R38.3	17	23

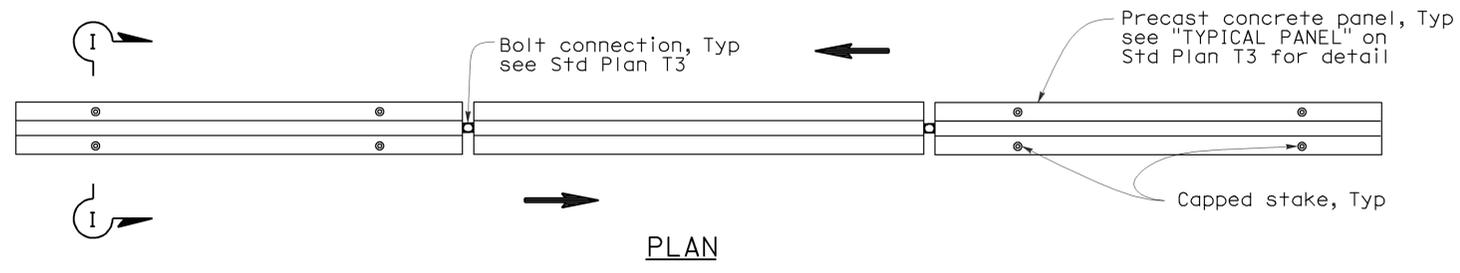
*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

May 20, 2011  
PLANS APPROVAL DATE

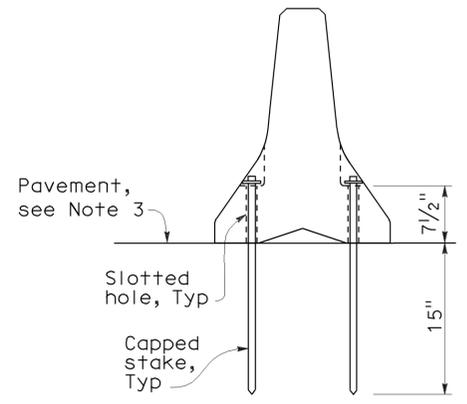
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To accompany plans dated 6-04-12

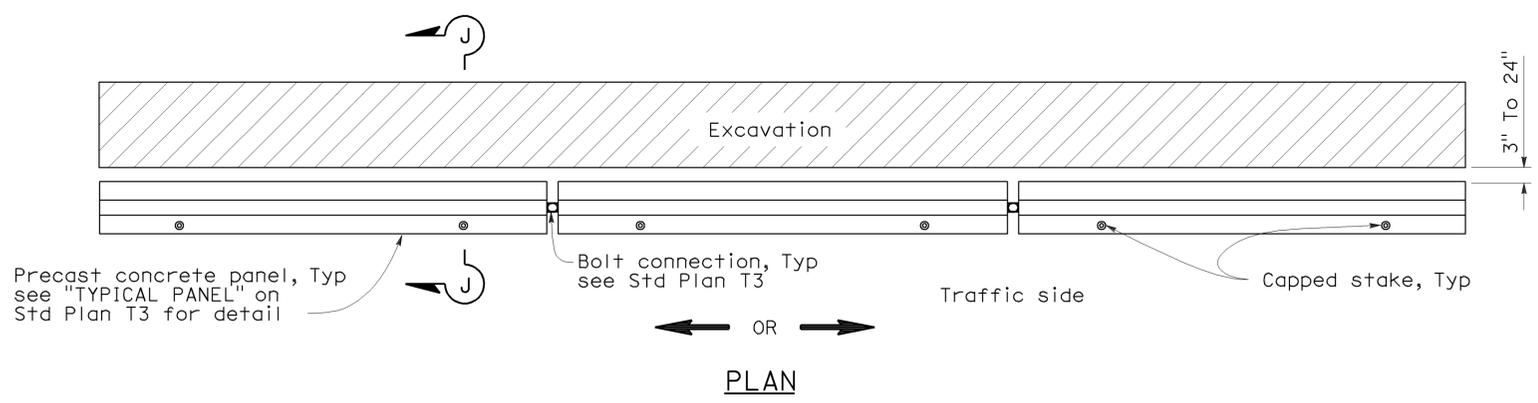


**RAILING STAKING CONFIGURATION FOR TWO-WAY TRAFFIC**  
See Note 1

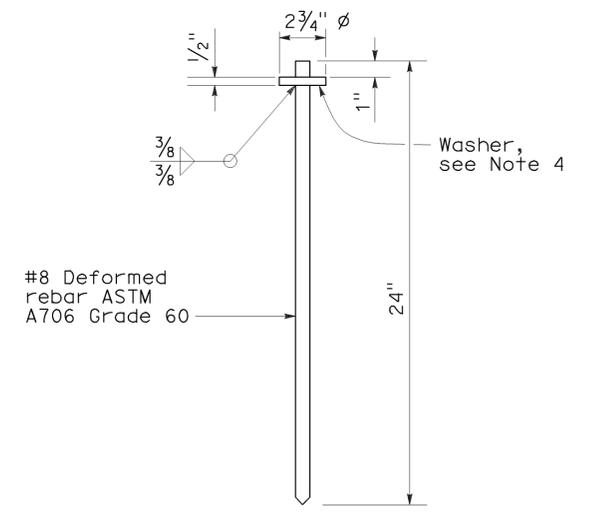
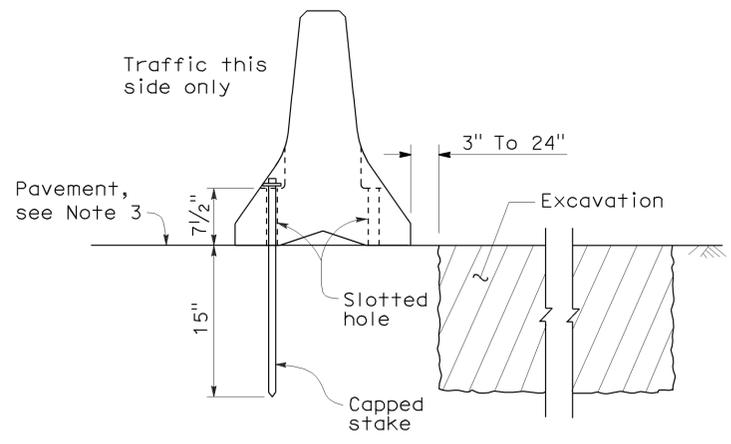


**NOTES:**

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



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

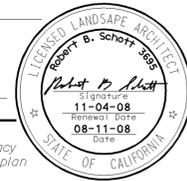
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	10	R37.4/R38.3	18	23

Robert B. Schott  
LICENSED LANDSCAPE ARCHITECT

August 15, 2008  
PLANS APPROVAL DATE

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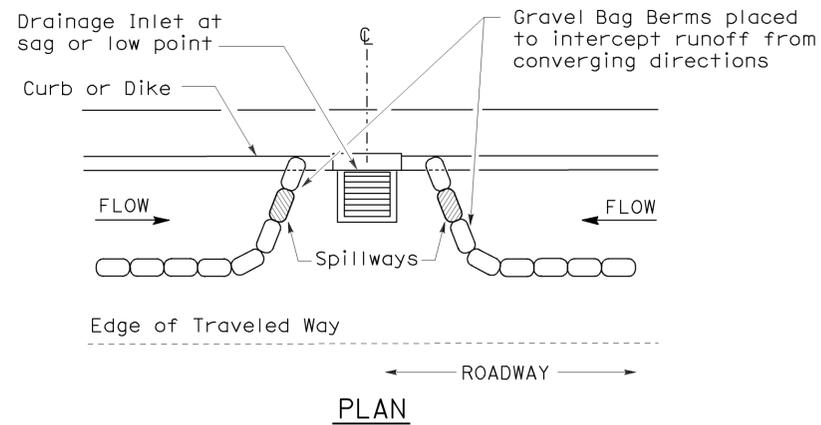
To accompany plans dated 6-04-12



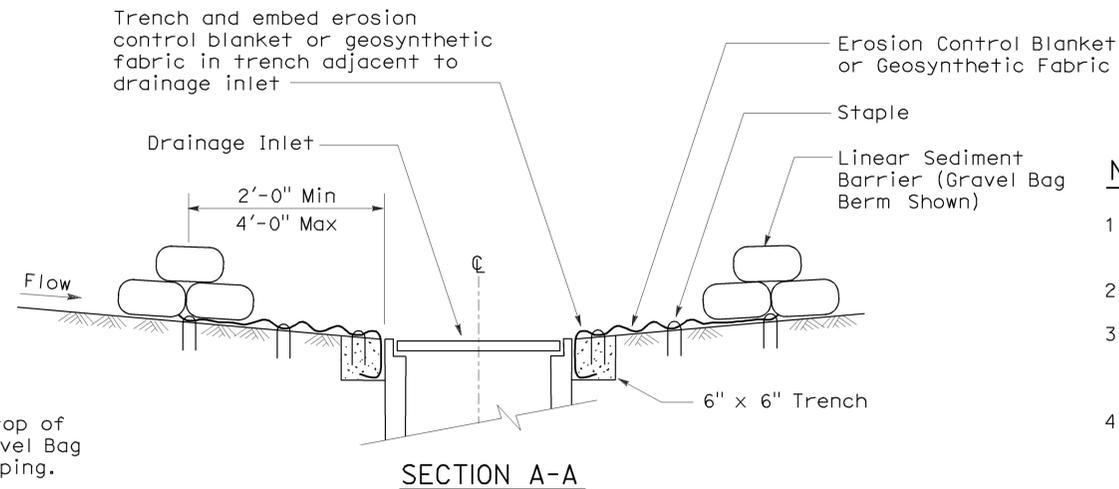
### GRAVEL BAG BERM (TYPE 3A) SPACING TABLE

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



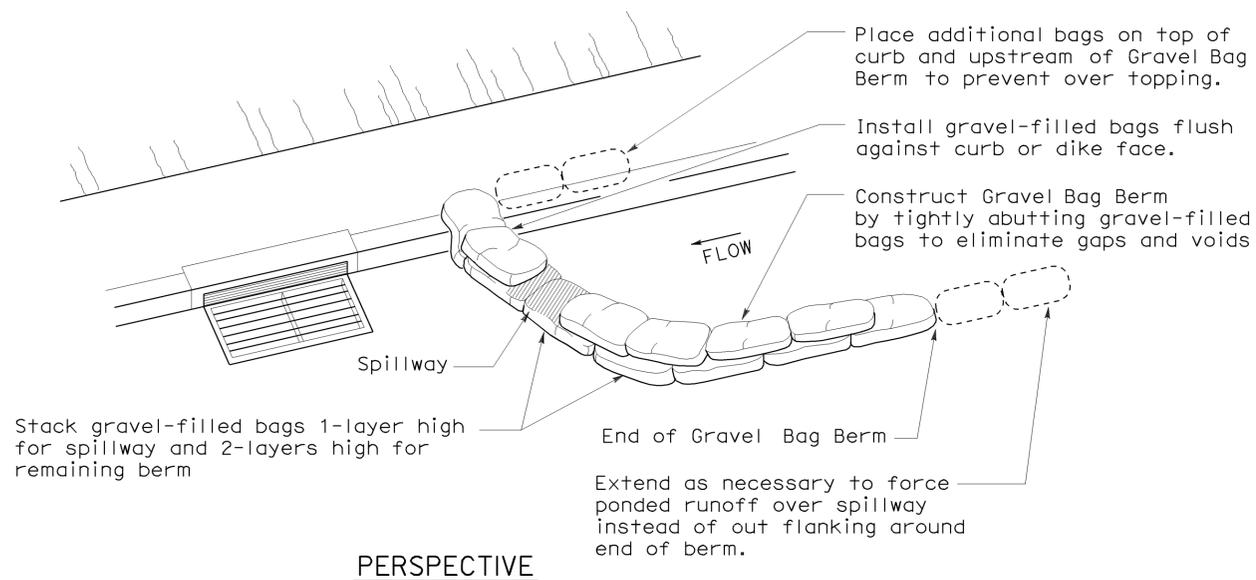
**PLAN**  
**CONFIGURATION FOR SAG POINT INLET (GRAVEL BAG BERM)**



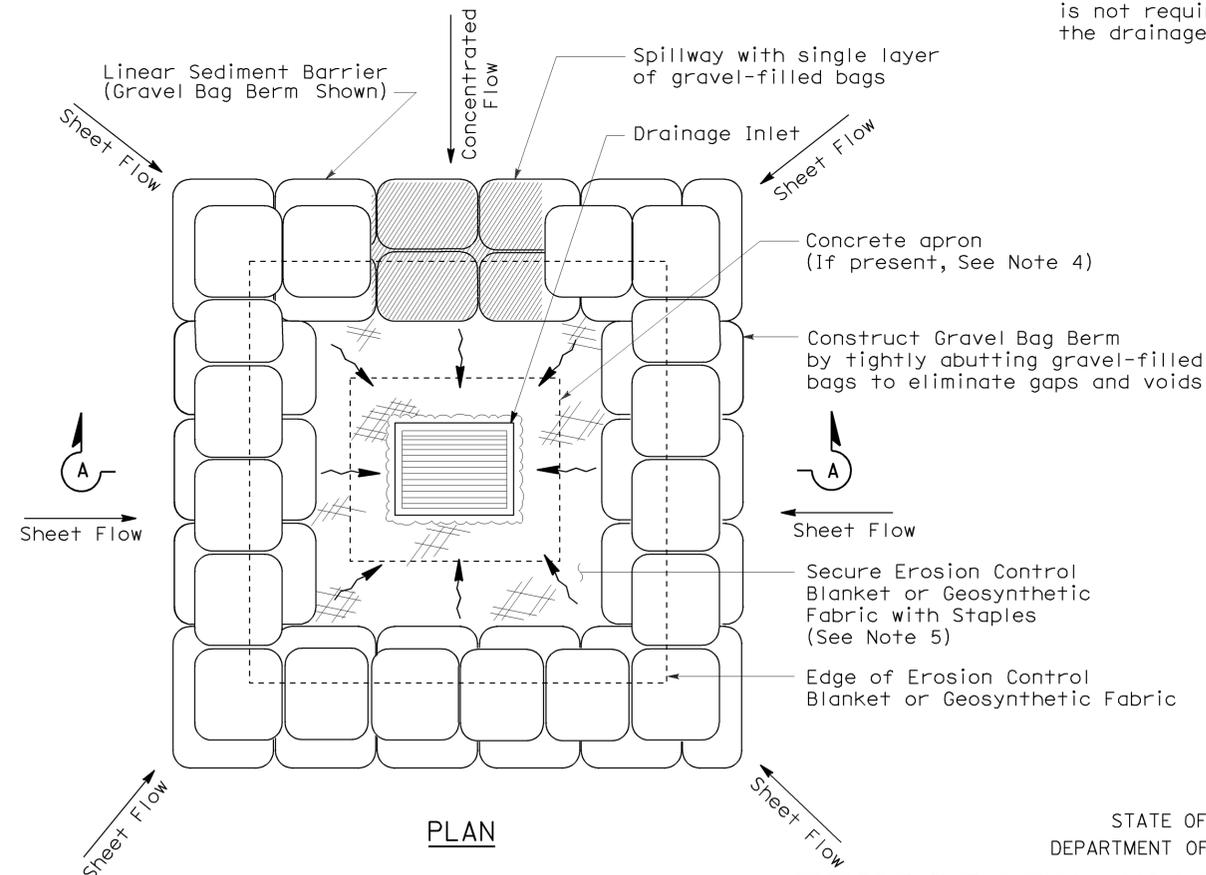
**SECTION A-A**

**NOTES:**

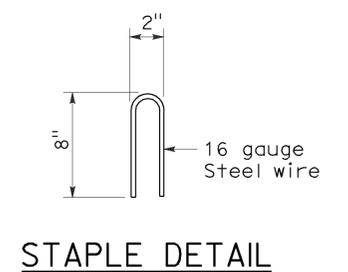
1. Place safety cones adjacent to drainage inlet protection.
2. Dimensions may vary to fit field conditions.
3. Install a minimum of 3 gravel bag berms upstream of each drainage inlet to be protected.
4. Position erosion control blanket or geosynthetic fabric at edge of concrete apron and secure in trench.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



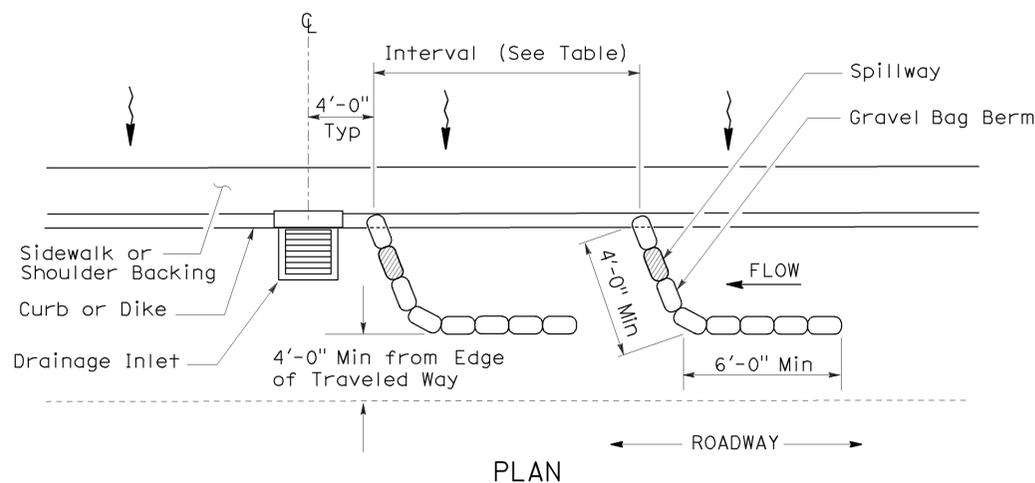
**PERSPECTIVE**



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



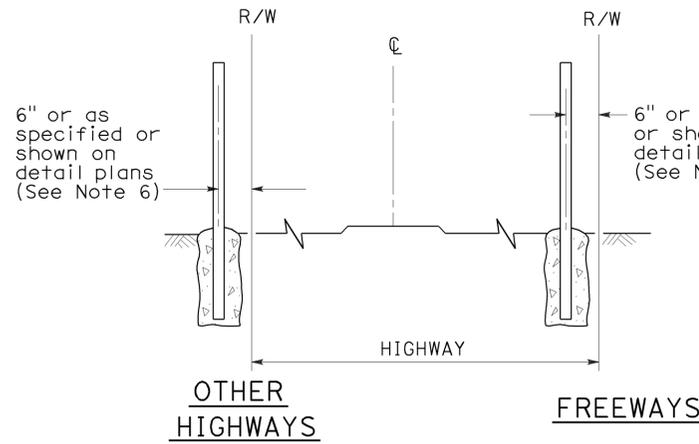
**STAPLE DETAIL**



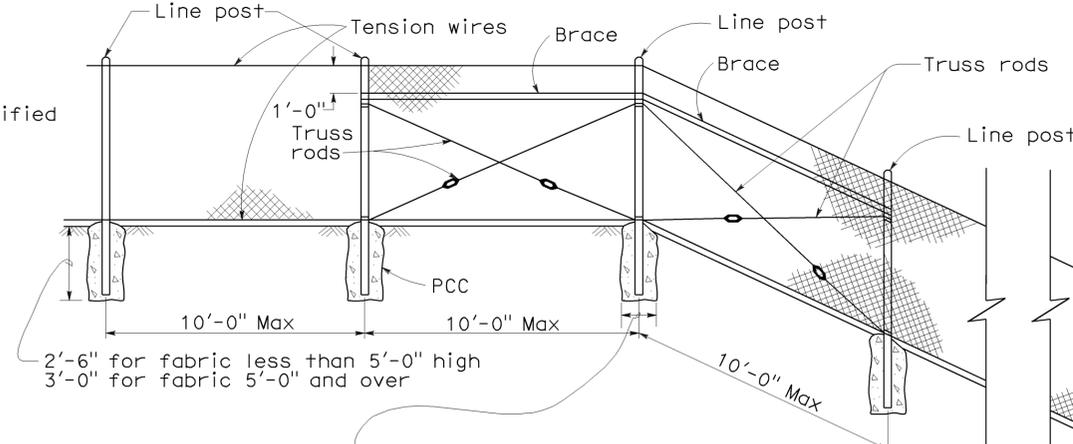
**PLAN**  
**TEMPORARY DRAINAGE INLET PROTECTION (TYPE 3A) (GRAVEL BAG BERM)**

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

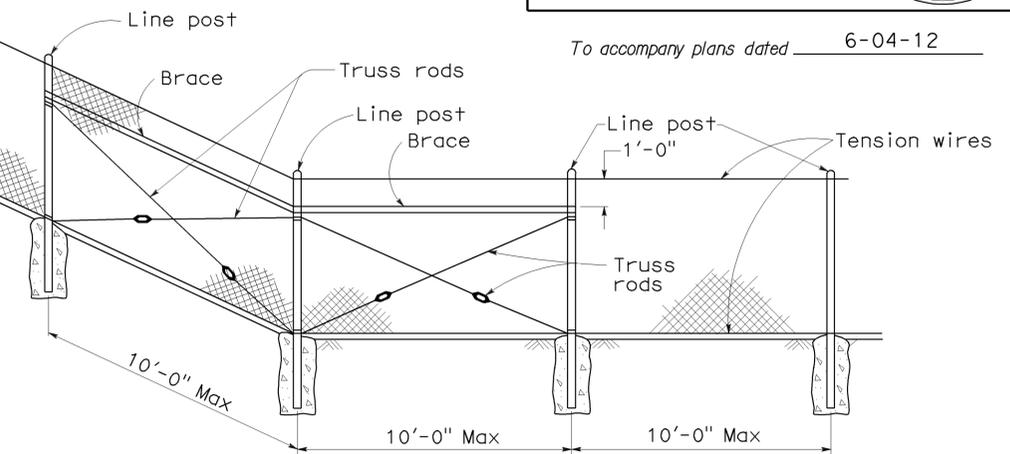
NO SCALE  
NSP T62 DATED AUGUST 15, 2008 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.



**FENCE LOCATION**

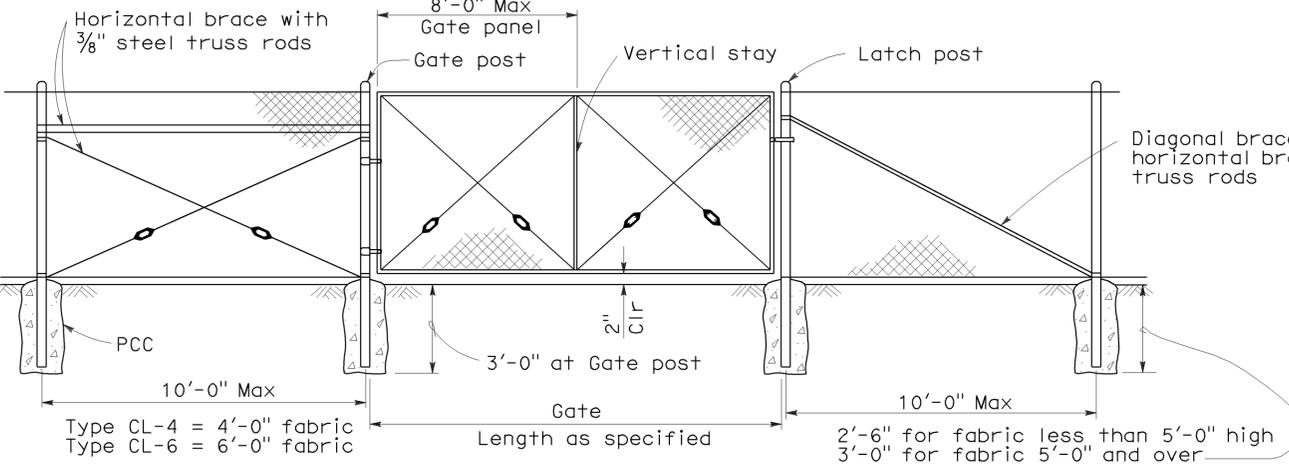
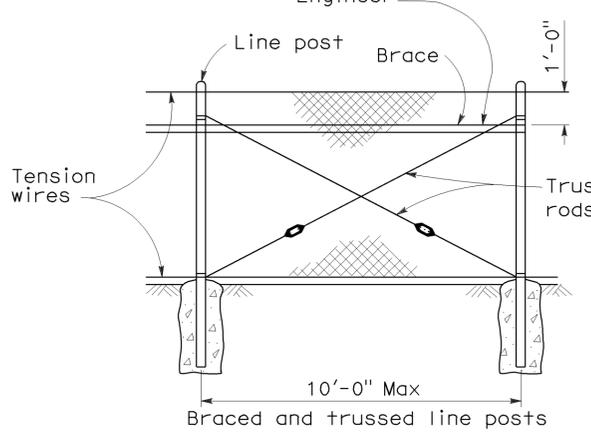


**CHAIN LINK FENCE ON SHARP BREAK IN GRADE**



To accompany plans dated 6-04-12

Brace to be removed after all other fence construction is completed unless otherwise directed by the Engineer



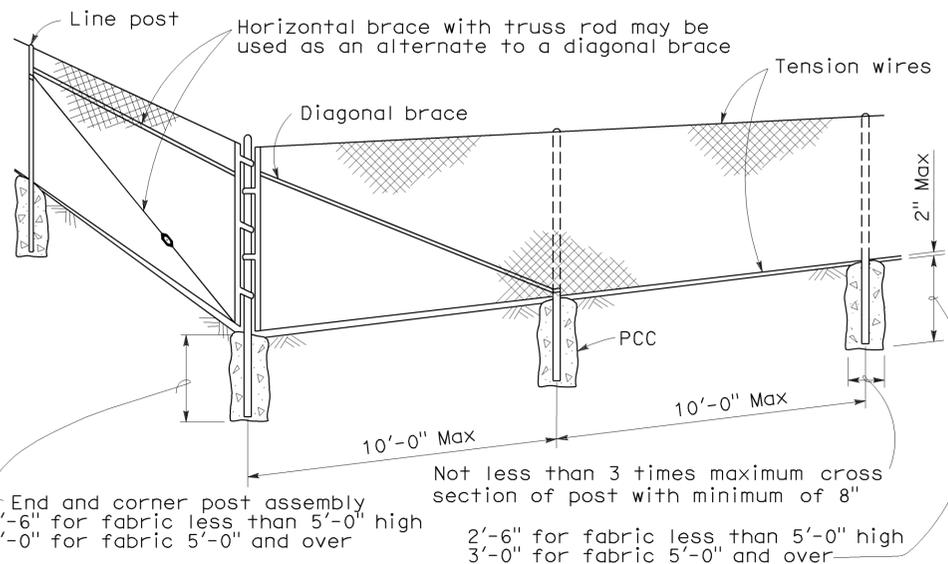
**CHAIN LINK GATE INSTALLATION**

**NOTES:**

- The below table shows examples of post and brace sections which may comply with the Specifications.
- Sections shown in the tables must also comply with the strength requirements and other provisions of the Specifications.
- Other sections which comply with the strength requirements and other provisions of the Specifications may be used on approval of the Engineer.
- Options exercised shall be uniform on any one project.
- Dimensions shown are nominal.
- Offset to be 2'-0" at monument locations, measured at right angles to R/W lines. Taper to achieve offset to be at least 20'-0" long.

GATE POST			
FENCE HEIGHT	GATE WIDTHS	NOMINAL ID	WEIGHT PER FOOT
6'-0" and Less	Up thru 6'-0"	2 1/2"	4.95 LB
	Over 6'-0" thru 12'-0"	4"	10.79 LB
	Over 12'-0" thru 18'-0"	5"	14.62 LB
	Over 18'-0" to 24'-0" Max	6"	18.97 LB
Over 6'-0"	Up thru 6'-0"	3"	7.58 LB
	Over 6'-0" thru 12'-0"	5"	14.62 LB
	Over 12'-0" thru 18'-0"	6"	18.97 LB
	Over 18'-0" to 24'-0" Max	8"	28.55 LB

Above post dimensions and weights are minimums. Larger sizes may be used on approval of the Engineer.



**CORNER POST**

FENCE HEIGHT	TYPICAL MEMBER DIMENSIONS (See Notes)									
	LINE POSTS			END, LATCH & CORNER POSTS			BRACES			
	ROUND ID	H	ROLL FORMED	ROUND ID	ROLL FORMED		ROUND ID	H	ROLL FORMED	
6' & less	1 1/2"	1 7/8" x 1 5/8"	1 7/8" x 1 5/8"	2"	3 1/2" x 3 1/2"	2" x 1 3/4"	1 1/4"	1 1/2" x 1 5/16"	1 5/8" x 1 1/4"	1 3/4" x 1 1/4"
Over 6'	2"	2 1/4" x 2"	2" x 1 3/4"	2 1/2"	3 1/2" x 3 1/2"	2 1/2" x 2 1/2"	1 1/4"	1 1/2" x 1 5/16"	1 5/8" x 1 1/4"	1 3/4" x 1 1/4"

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**CHAIN LINK FENCE**  
NO SCALE

RSP A85 DATED JUNE 5, 2009 SUPERSEDES STANDARD PLAN A85  
DATED MAY 1, 2006 - PAGE 111 OF THE STANDARD PLANS BOOK DATED MAY 2006.

**REVISED STANDARD PLAN RSP A85**

2006 REVISED STANDARD PLAN RSP A85

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SbD	10	R37.4/R38.3	20	23

*Gregory A. Balzer*  
LICENSED LANDSCAPE ARCHITECT

June 5, 2009  
PLANS APPROVAL DATE

*Gregory A. Balzer*  
2-28-11  
5-14-09  
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.

2006 REVISED STANDARD PLAN RSP H1

**A**

AB aggregate base  
 ABS acrylonitrile-butadiene-styrene  
 AC asphalt concrete  
 Adj adjacent/adjustable  
 AIC auxiliary irrigation controller  
 Alt alternative  
 AMEND amendment  
 ARV air release valve  
 AUTO automatic  
 AUX auxiliary  
 AVB atmospheric vacuum breaker

**B**

B&B balled and burlapped  
 B/B brass/bronze  
 B/B/PL brass/bronze/plastic  
 B/PL brass/plastic  
 BFM bonded fiber matrix  
 Bit Ctd bituminous coated  
 BP booster pump  
 BPA backflow preventer assembly  
 BPAE backflow preventer assembly in enclosure  
 BPE backflow preventer enclosure  
 BV ball valve

**C**

CAP corrugated aluminum pipe  
 CARV combination air release valve  
 CCA cam coupler assembly  
 CEC controller enclosure cabinet  
 CHDPE corrugated high density polyethylene  
 CL chain link  
 CNC control and neutral conductors  
 Conc concrete  
 Cond conduit  
 CSP corrugated steel pipe  
 CST center strip  
 CV check valve

**D**

Dia diameter  
 DIP ductile iron pipe  
 DN diameter nominal

**E**

EA each  
 Elect electric/electrical  
 Elev elevation  
 ENCL enclosure  
 EP edge of pavement  
 ES edge of shoulder  
 EST end strip  
 ESTB establishment  
 ETW edge of traveled way

**F**

F full circle  
 F/P full/part circle  
 FAU filter assembly unit  
 FCV flow control valve  
 FERT fertilizer  
 FG finished grade  
 FIPT female iron pipe thread  
 FIS fertilizer injector system  
 FL flow line  
 FM flow monitor  
 FS flow sensor  
 Ft foot/feet  
 FV flush valve

**G**

GAL Gallon(s)  
 Galv galvanized  
 GARV garden valve  
 GPH gallons per hour  
 GPM gallons per minute  
 GSP galvanized steel pipe  
 GV gate valve

**H**

H half circle  
 HB hose bib  
 HDPE high density polyethylene  
 HP horsepower/hinge point  
 HPL high pressure line  
 Hwy highway

**I**

IC irrigation controller  
 ICC irrigation controller(s)  
 in controller enclosure cabinet  
 ID inside diameter  
 In inches  
 IFS irrigation filtration system  
 IPS iron pipe size  
 IPT iron pipe thread  
 Irr irrigation

**L**

L length  
 LF linear foot

**M**

Max maximum  
 MBGR metal beam guard railing  
 MCV manual control valve  
 MIC master irrigation controller  
 Min minimum  
 MIPT male iron pipe thread  
 Misc miscellaneous  
 Mtl material  
 MVP maintenance vehicle pullout

**N**

NCN no common name  
 NL nozzle line  
 No. number  
 NPT national pipe thread

**O**

O/C on center  
 OD outside diameter  
 Oz ounce

**P**

P part circle  
 PB pull box  
 PCC portland cement concrete  
 PE polyethylene  
 Pkt packet  
 PL plastic  
 PLT plant/planting  
 PLT ESTB plant establishment  
 PM post mile  
 PR pressure rated  
 PRLV pressure relief valve  
 PSFM polymer stabilized fiber matrix  
 PSI pounds per square inch  
 PRV pressure reducing valve  
 PVC polyvinyl chloride  
 Pvmt pavement

**Q**

Q quarter circle  
 QCV quick coupling valve

**R**

R radius  
 RCP reinforced concrete pipe  
 RCV remote control valve  
 RCVM remote control valve (master)  
 RCVMF remote control valve (master) w/ flow meter  
 RCW recycled/reclaimed water  
 RECP rolled erosion control product  
 REQ required  
 R/W right of way

**S**

S slip  
 SCC sprinkler control conduit  
 SCH schedule  
 SF state-furnished  
 Shld shoulder  
 SQFT square foot/feet  
 SQYD square yard(s)  
 SST side strip  
 Sta station  
 Std standard  
 SW sidewalk/sound wall

**T**

T third circle/thread  
 TLS truck loading standpipe  
 TQ three quarter circle  
 TRM turf reinforcement mat  
 TRVD traveled  
 TT two third circle  
 Typ typical

**U**

UG underground

**V**

VAU valve assembly unit

**W**

W width  
 W/ with  
 WM water meter  
 WS wye strainer  
 WSP welded steel pipe  
 WWM welded wire mesh

To accompany plans dated 6-04-12

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**PLANTING AND IRRIGATION  
 ABBREVIATIONS**

NO SCALE

RSP H1 DATED JUNE 5, 2009 SUPERSEDES STANDARD PLAN H1  
 DATED MAY 1, 2006 - PAGE 201 OF THE STANDARD PLANS BOOK DATED MAY 2006.

**NOTE:**  
 FOR ADDITIONAL ABBREVIATIONS,  
 SEE STANDARD PLANS A10A AND A10B.

**REVISED STANDARD PLAN RSP H1**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	10	R37.4/R38.3	21	23

*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

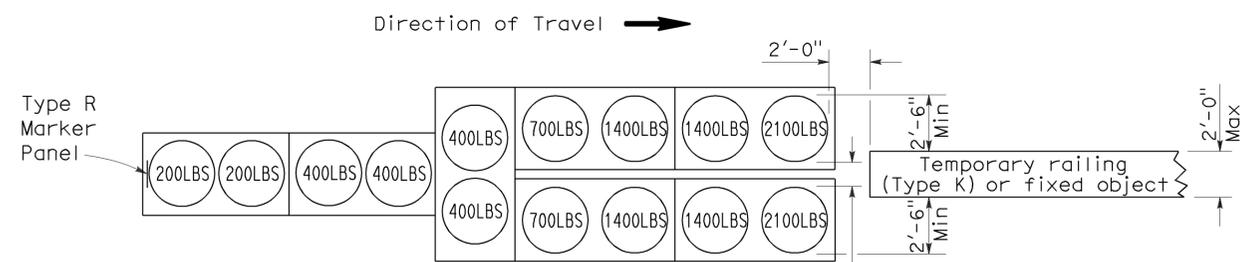
June 6, 2008  
PLANS APPROVAL DATE

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

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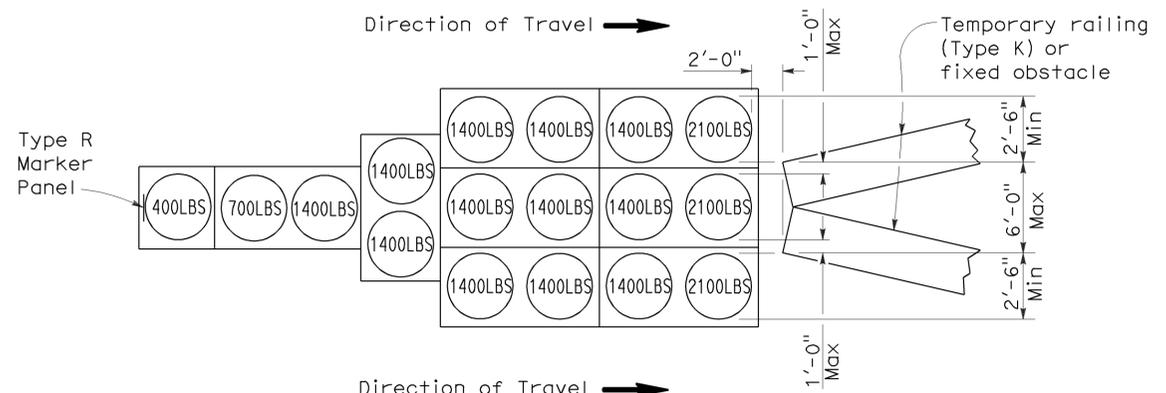
To accompany plans dated 6-04-12

2006 REVISED STANDARD PLAN RSP T1A



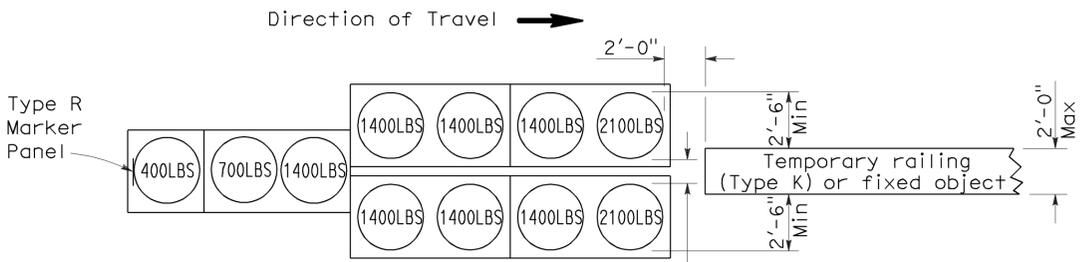
**ARRAY 'TU14'**

Approach speed 45 mph or more



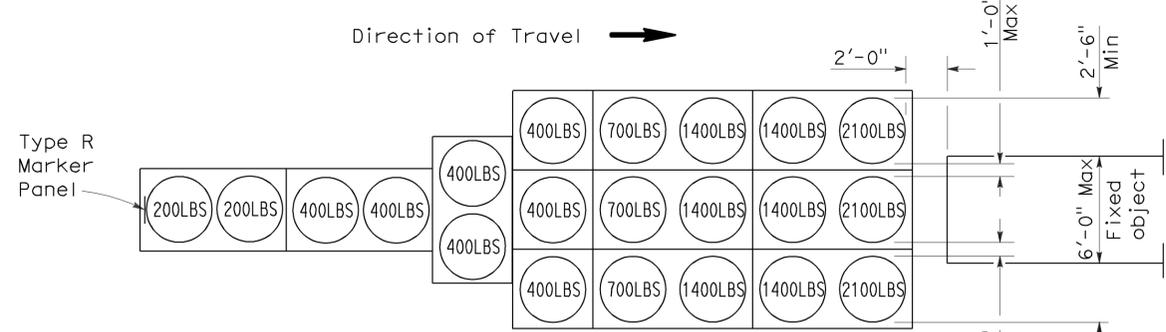
**ARRAY 'TU17'**

Approach speed less than 45 mph



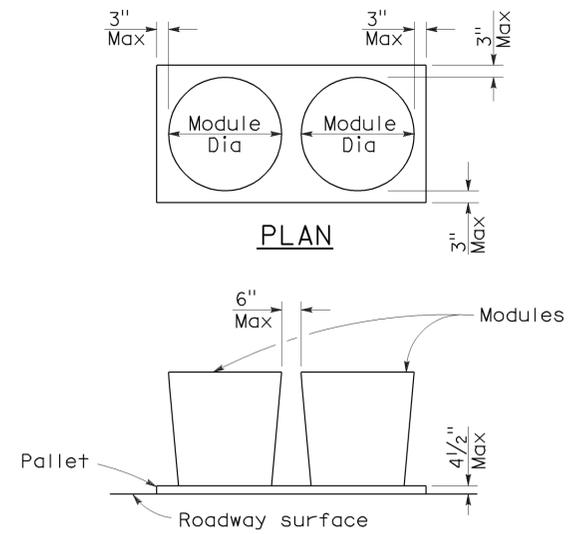
**ARRAY 'TU11'**

Approach speed less than 45 mph



**ARRAY 'TU21'**

Approach speed 45 mph or more



**PLAN**

**ELEVATION**

**CRASH CUSHION PALLET DETAIL**

See Note 7

**NOTES:**

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

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

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

NO SCALE

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

**REVISED STANDARD PLAN RSP T1A**

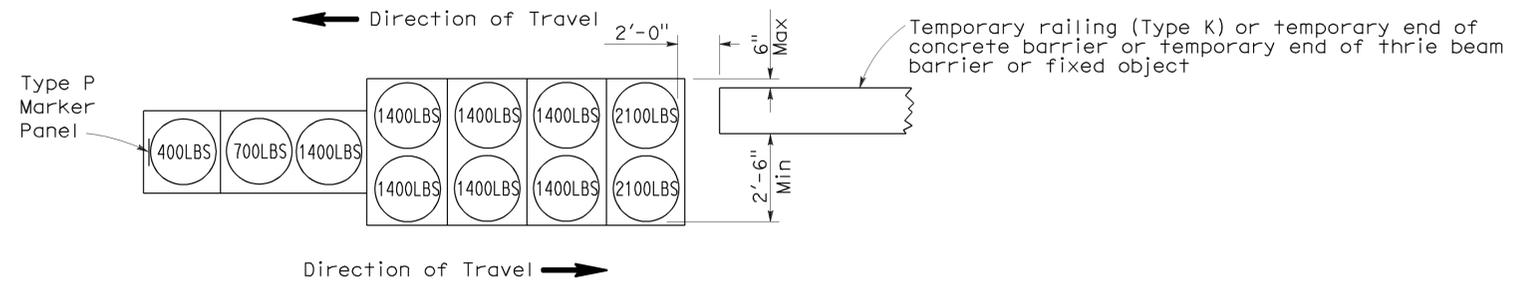
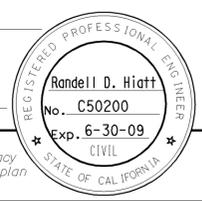
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	10	R37.4/R38.3	22	23

*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

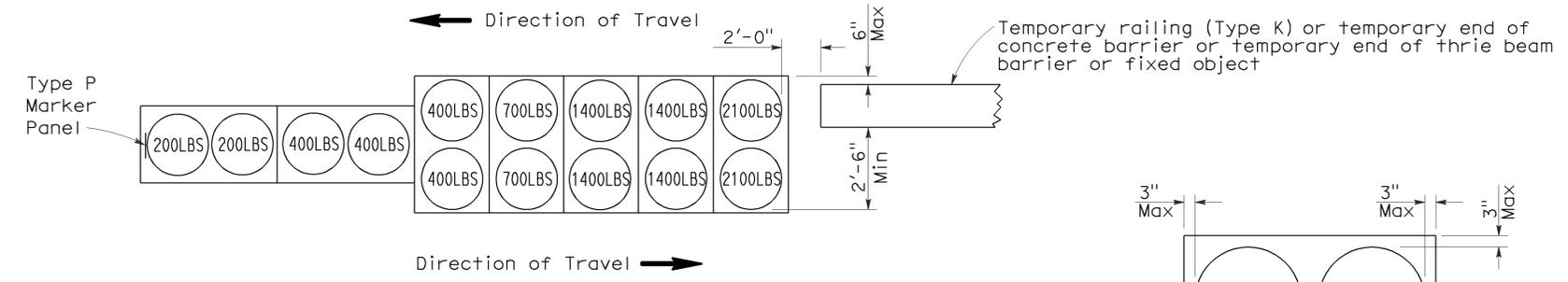
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To accompany plans dated 6-04-12



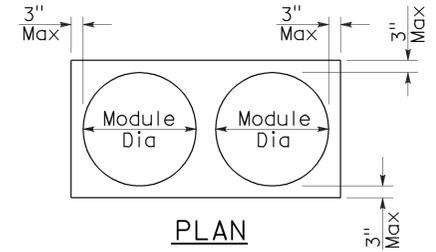
**ARRAY 'TB11'**

Approach speed less than 45 mph

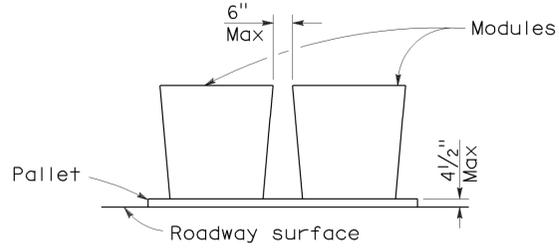


**ARRAY 'TB14'**

Approach speed 45 mph or more



**PLAN**



**ELEVATION**

**CRASH CUSHION PALLET DETAIL**

See Note 7

**NOTES:**

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

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

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

NO SCALE

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

**REVISED STANDARD PLAN RSP T1B**

2006 REVISED STANDARD PLAN RSP T1B

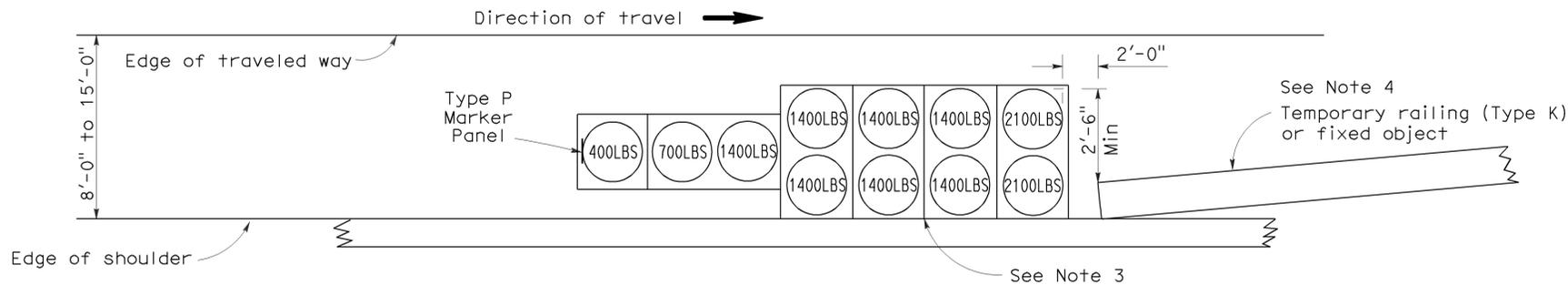
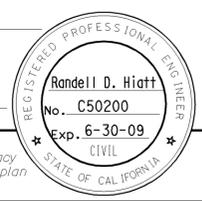
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	10	R37.4/R38.3	23	23

*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

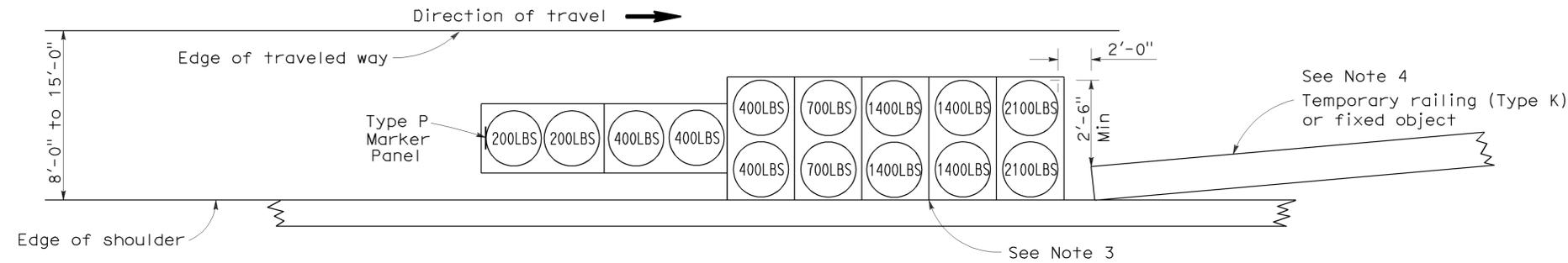
June 6, 2008  
PLANS APPROVAL DATE

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To accompany plans dated 6-04-12



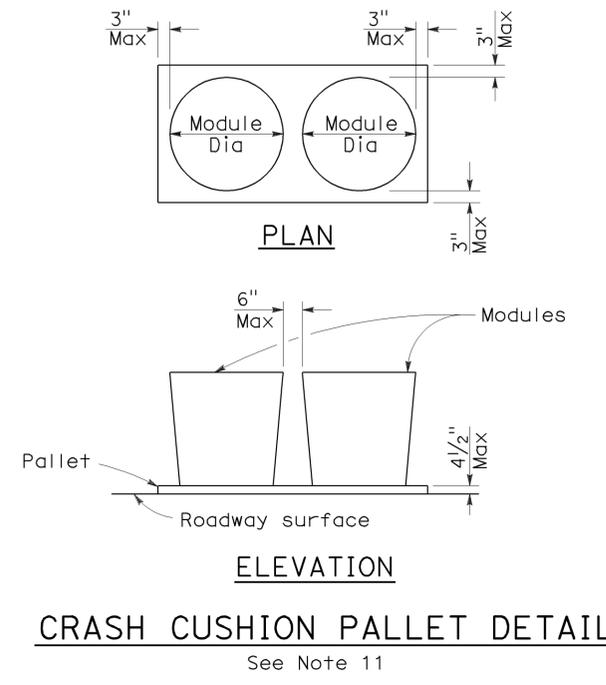
**ARRAY 'TS11'**  
Approach speed less than 45 mph  
See Note 9



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

**NOTES:**

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



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

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

**REVISED STANDARD PLAN RSP T2**

2006 REVISED STANDARD PLAN RSP T2