

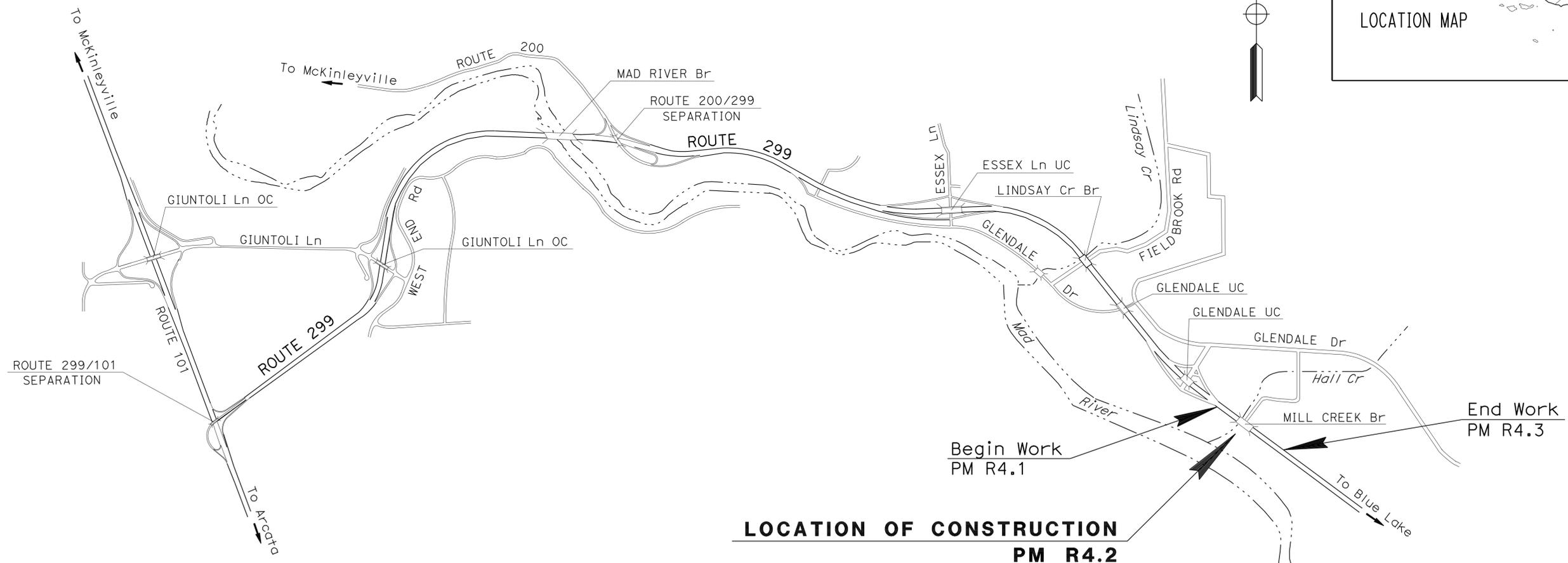
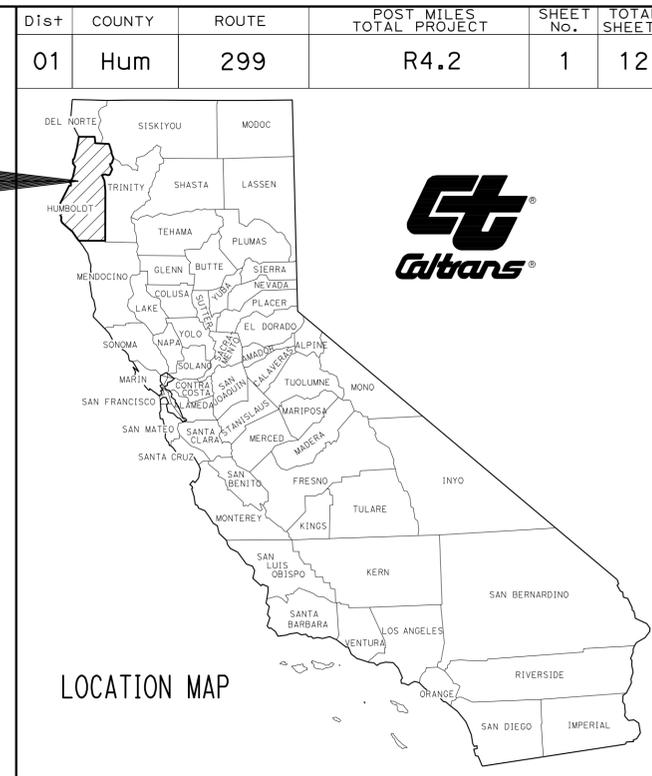
INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	LAYOUTS
3-4	CONSTRUCTION DETAILS AND QUANTITIES
5	CONSTRUCTION AREA SIGNS
6-12	REVISED AND NEW STANDARD PLANS

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

STATE OF CALIFORNIA  
**DEPARTMENT OF TRANSPORTATION**  
**PROJECT PLANS FOR CONSTRUCTION ON**  
**STATE HIGHWAY**  
**IN HUMBOLDT COUNTY**  
**NEAR BLUE LAKE**  
**AT MILL CREEK BRIDGE**

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2006



**ARCATA**

**LOCATION OF CONSTRUCTION**  
**PM R4.2**

*Glenn G. Hurlburt* 2-27-12  
 PROJECT ENGINEER DATE  
 REGISTERED CIVIL ENGINEER  
**March 12, 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>01-296124</b>
PROJECT ID	<b>0100020394</b>

NO SCALE

PROJECT MANAGER: RICHARD MULLEN  
 DESIGN ENGINEER: DENNIS P. MCGBRIDE  
 H:\PROJECTS\G.I.enhModR1\ver\0100020394\ab001.dgn

DATE PLOTTED => 15-MAR-2012  
 TIME PLOTTED => 05:49  
 LAST REVISION: 00-00-00

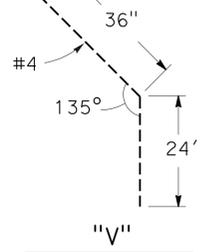
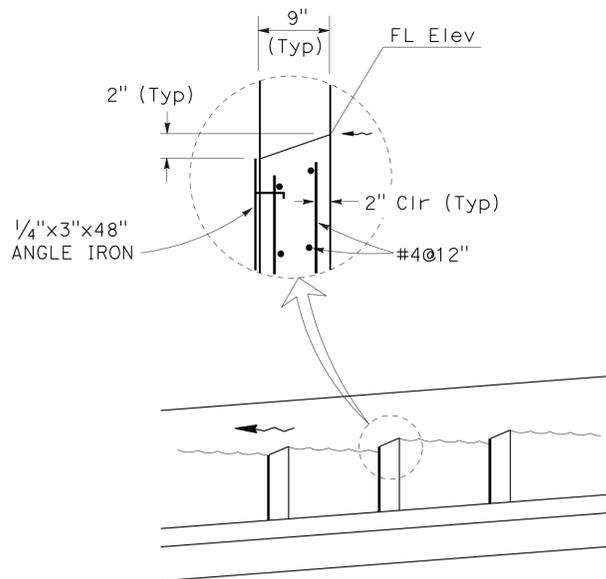
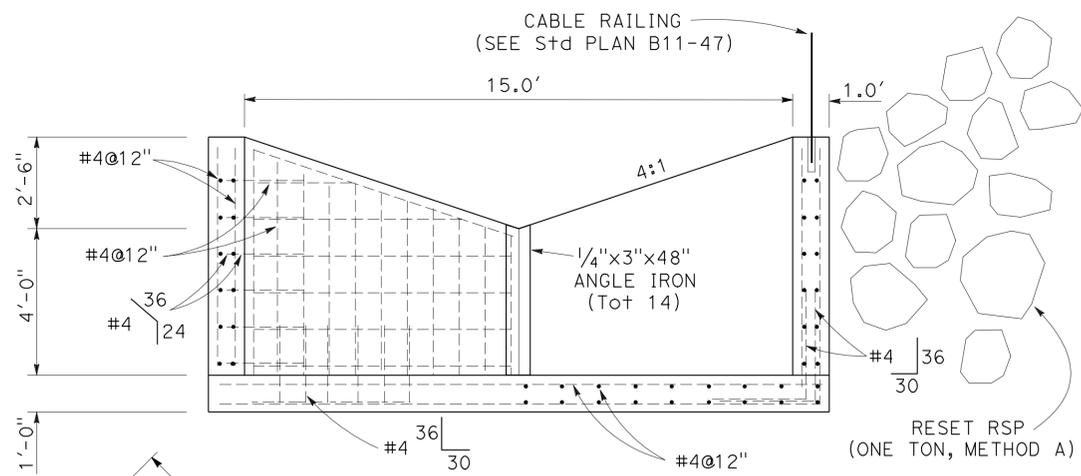


Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	299	R4.2	3	12

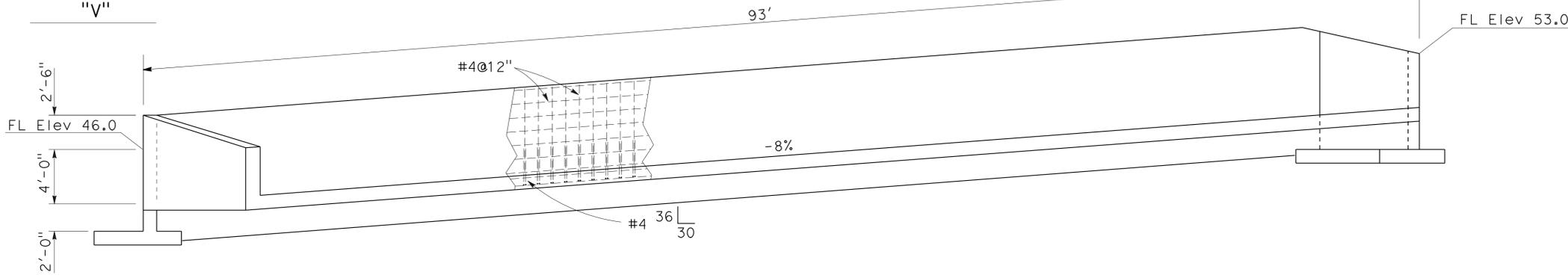
2-27-12  
 REGISTERED CIVIL ENGINEER DATE  
 3-12-12  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 GLENN G. HURLBURT  
 No. 68303  
 Exp. 9-30-13  
 CIVIL  
 STATE OF CALIFORNIA

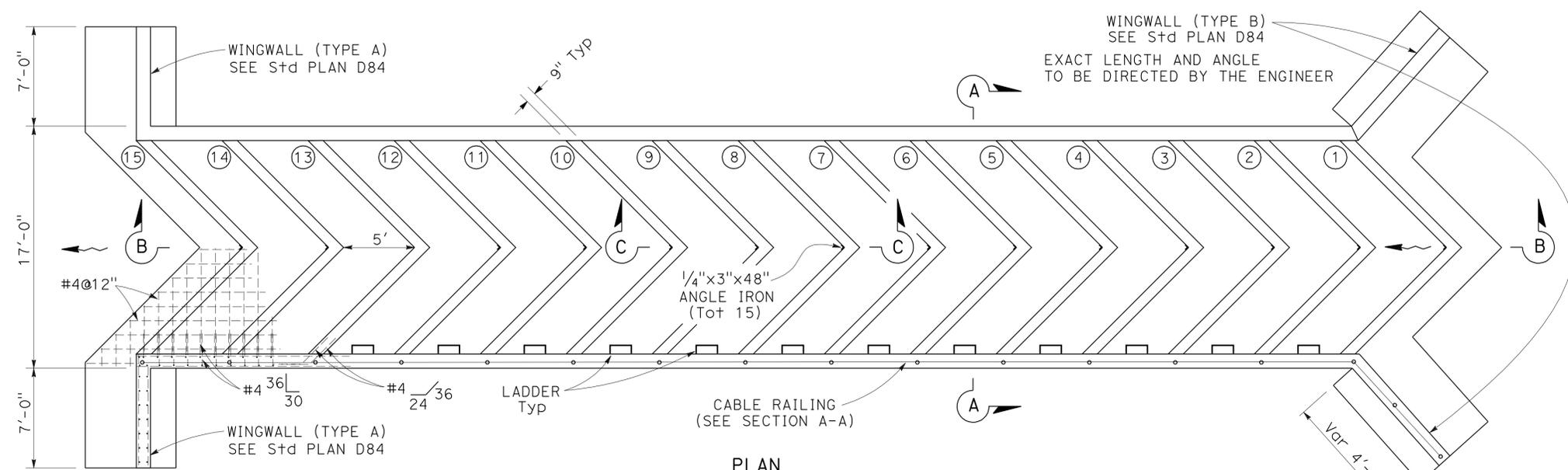
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



SECTION C-C



SECTION B-B



PLAN

FISHWAY

WEIR NUMBER	FL ELEVATION
(1)	53.0
(2)	52.5
(3)	52.0
(4)	51.5
(5)	51.0
(6)	50.5
(7)	50.0
(8)	49.5
(9)	49.0
(10)	48.5
(11)	48.0
(12)	47.5
(13)	47.0
(14)	46.5
(15)	46.0

CONSTRUCTION DETAILS  
SCALE: 1" = 5'

H:\PROJECTS\GlenHurlburt\0100020394\001.dgn  
 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 DESIGN  
 Glenn Hurlburt  
 KEMSET MOORE  
 DENNIS P. McBRIDE  
 CALTRANS

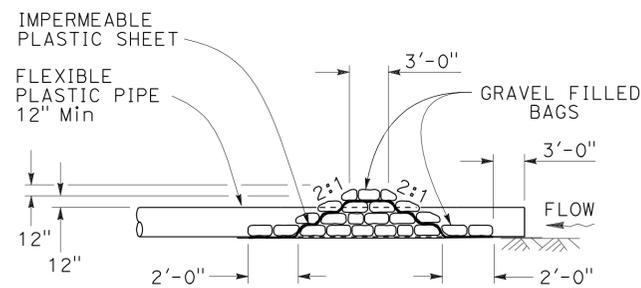
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 00-00-00 TIME PLOTTED => 13:56

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01	Hum	299	R4.2	4	12

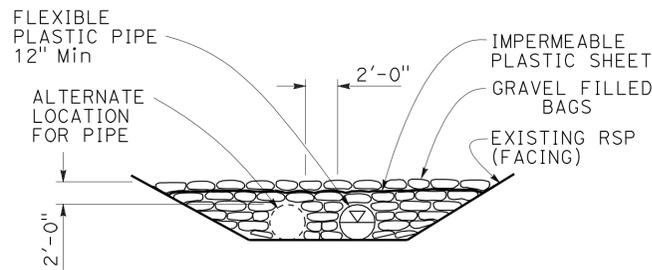
Glenn G. Hurlburt  
 REGISTERED CIVIL ENGINEER DATE 2-27-12  
 3-12-12  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 GLENN G. HURLBURT  
 No. 68303  
 Exp. 9-30-13  
 CIVIL  
 STATE OF CALIFORNIA

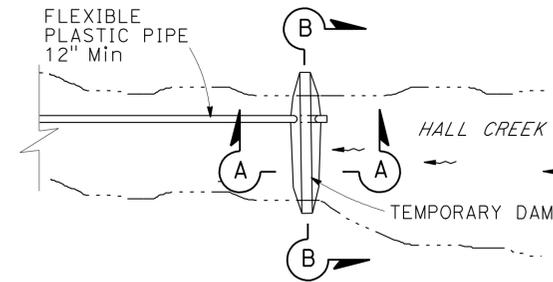
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



SECTION A-A



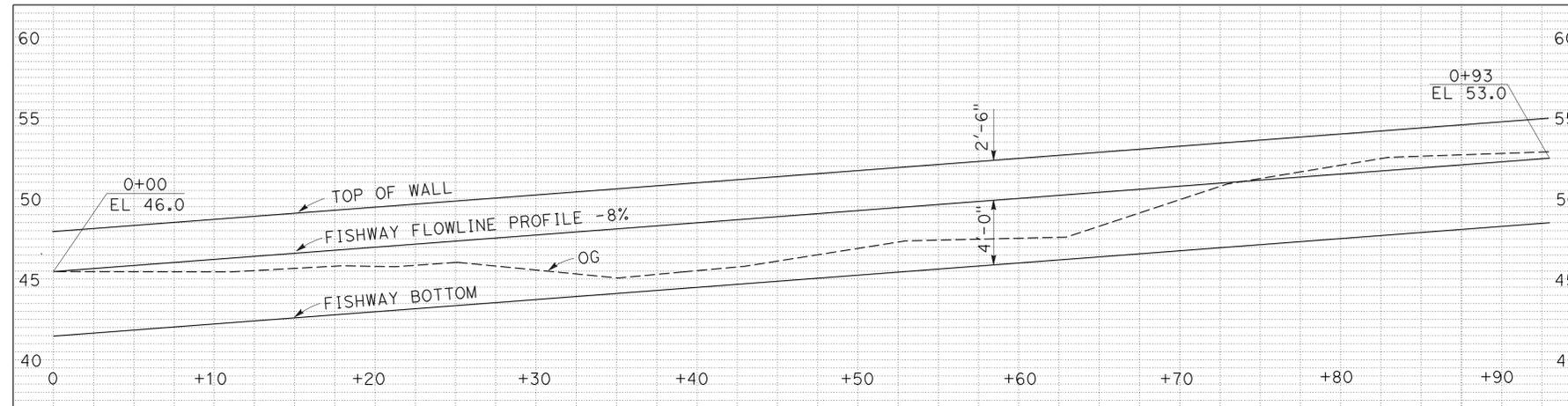
SECTION B-B



PLAN

**TEMPORARY CREEK DIVERSION SYSTEM**

NO SCALE



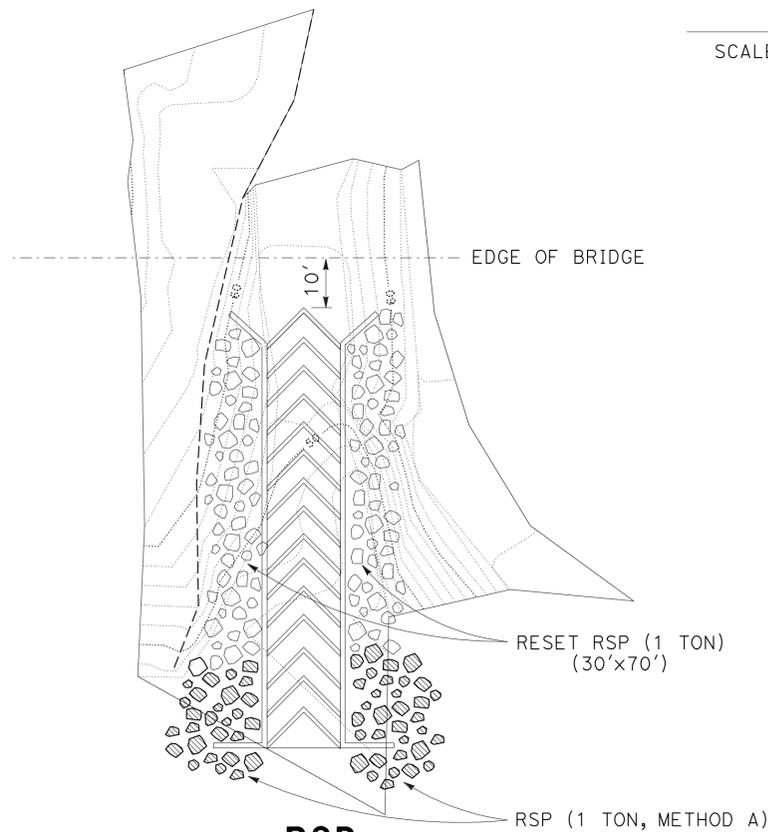
PROFILE

SCALE: 1" = 10' Horiz  
1" = 1' Vert

**ROADWAY QUANTITIES**

LOCATION	RSP (1 TON, METHOD A)	RESET RSP (1 TON, METHOD A)	CABLE RAILING	MINOR CONCRETE (MINOR STRUCTURE)	BAR REINFORCING STEEL (N)	CLASS 2 AB (N)	Misc IRON & STEEL (N)	STRUCTURE EXCAVATION (N)	STRUCTURE BACKFILL (N)	TEMPORARY FENCE (TYPE ESA)	TEMPORARY STRAW BALE BARRIER	ROADWAY EXCAVATION
	CY	CY	LF	CY	LB	CY	LB	CY	CY	LF	LF	CY
PM R4.2	200	300	90	200	22,000	80	725	60	30	200	25	80
<b>TOTAL</b>	<b>200</b>	<b>300</b>	<b>90</b>	<b>200</b>	<b>22,000</b>	<b>80</b>	<b>725</b>	<b>60</b>	<b>30</b>	<b>200</b>	<b>25</b>	<b>80</b>

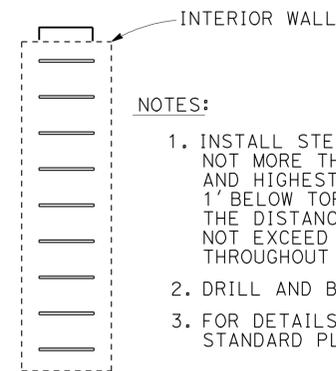
(N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.



RSP

PLAN

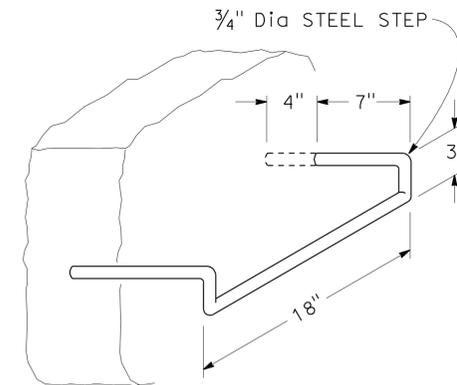
SCALE: 1" = 5'



NOTES:

- INSTALL STEPS WITH LOWEST RUNG NOT MORE THAN 1' ABOVE THE FLOOR AND HIGHEST RUNG NOT MORE THAN 1' BELOW TOP OF WALL. THE DISTANCE BETWEEN STEPS SHALL NOT EXCEED 1' AND SHALL BE UNIFORM THROUGHOUT THE HEIGHT OF THE WALL.
- DRILL AND BOND RUNGS.
- FOR DETAILS NOT SHOWN, REFER TO STANDARD PLAN D74C.

LADDER  
NO SCALE



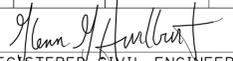
**CONSTRUCTION DETAILS AND QUANTITIES**

SCALE: AS SHOWN

C-2

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	299	R4.2	5	12

 REGISTERED CIVIL ENGINEER DATE 2-27-12		
3-12-12 PLANS APPROVAL DATE		

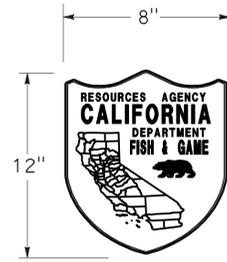
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

**STATIONARY MOUNTED CONSTRUCTION AREA SIGNS**

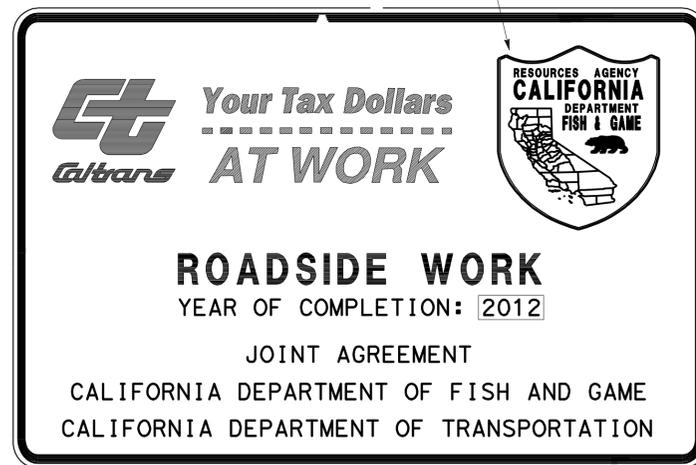
SIGN	SIGN CODE	SIGN MESSAGE	PANEL SIZE FT-IN	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
A	SP1	Std Plan T7 (TYPE 1)	7'-6" X 5'-0"	2- 6" X 6"	2

**NOTES:**

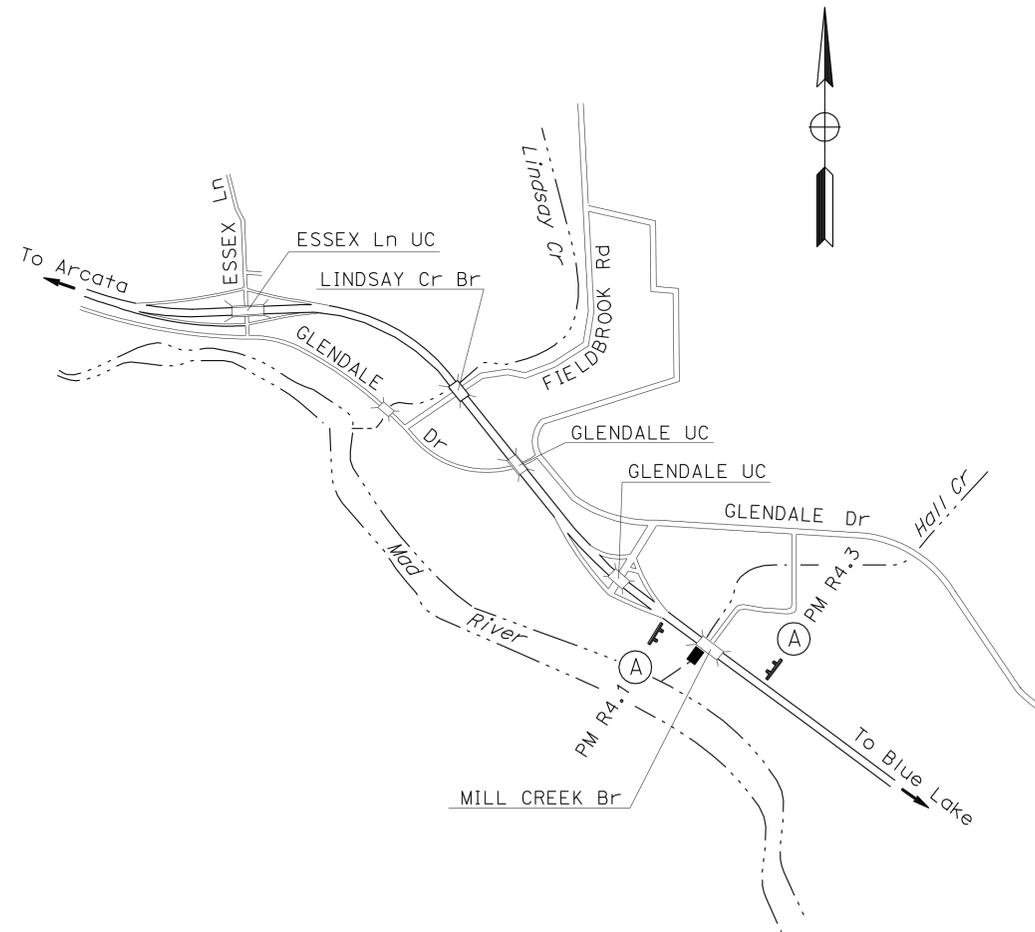
1. EXACT SIGN LOCATION TO BE DETERMINED BY THE ENGINEER.
2. SEE REVISED STANDARD PLAN RSP T7 (TYPE 1) FOR SP1 DETAILS NOT SHOWN.



DETAIL C-1



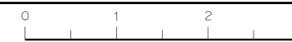
SP-1



**CONSTRUCTION AREA SIGNS  
CS-1**

NO SCALE

H:\PROJECTS\GlennMcdR\ver\01000203941a001.dgn  
 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 DESIGN  
 Caltrans  
 FUNCTIONAL SUPERVISOR DENNIS P. McBRIDE  
 CALCULATED/DESIGNED BY CHECKED BY  
 GLENN HURLBURT KEMSET MOORE  
 REVISED BY DATE REVISED  
 GLENN HURLBURT  
 KEMSET MOORE



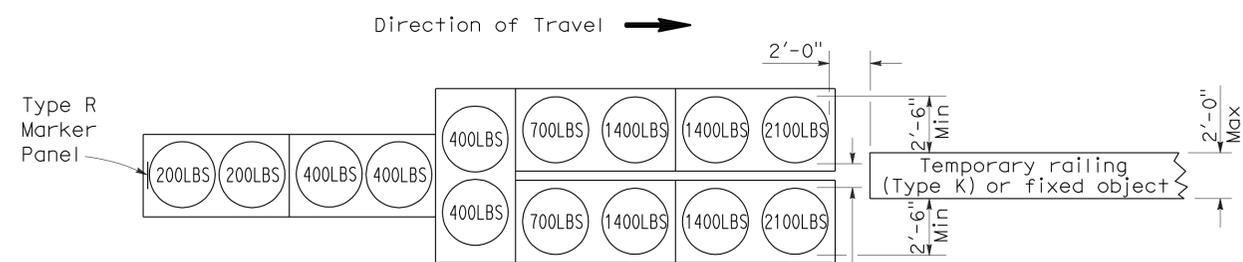
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	Hum	299	R4.2	6	12

*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

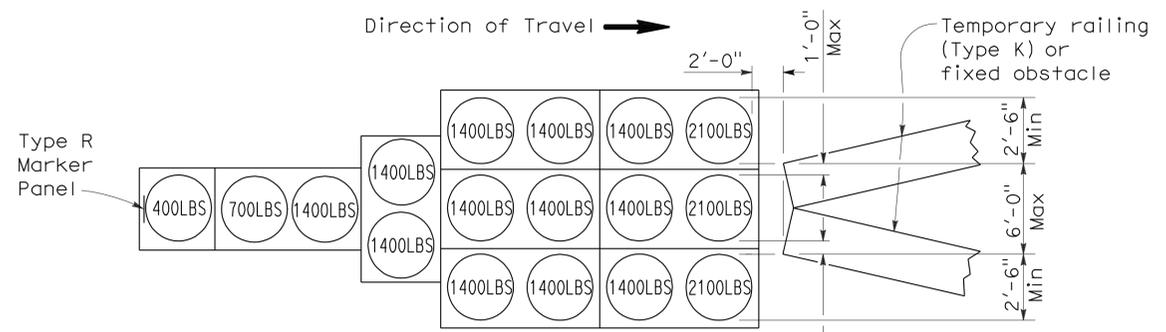
*The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.*

To accompany plans dated 3-12-12



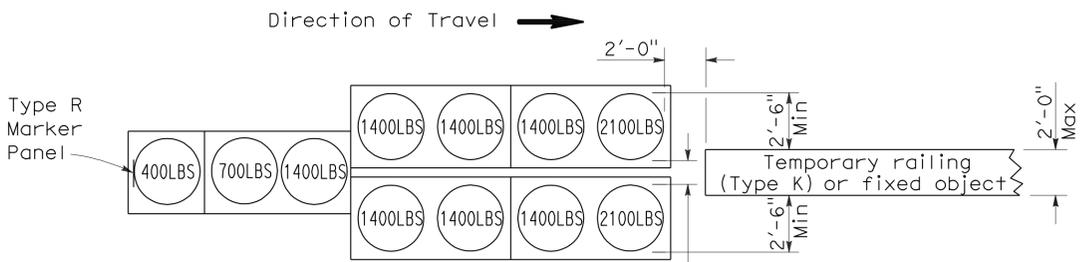
**ARRAY 'TU14'**

Approach speed 45 mph or more



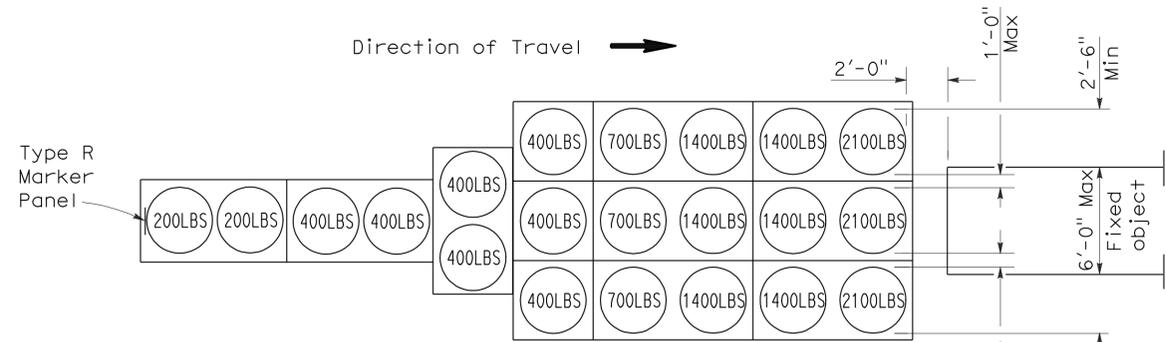
**ARRAY 'TU17'**

Approach speed less than 45 mph



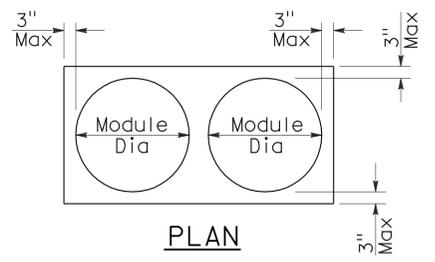
**ARRAY 'TU11'**

Approach speed less than 45 mph

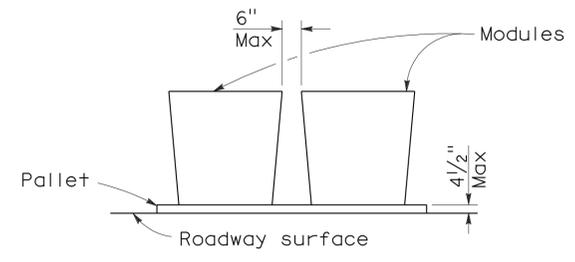


**ARRAY 'TU21'**

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
01	Hum	299	R4.2	7	12

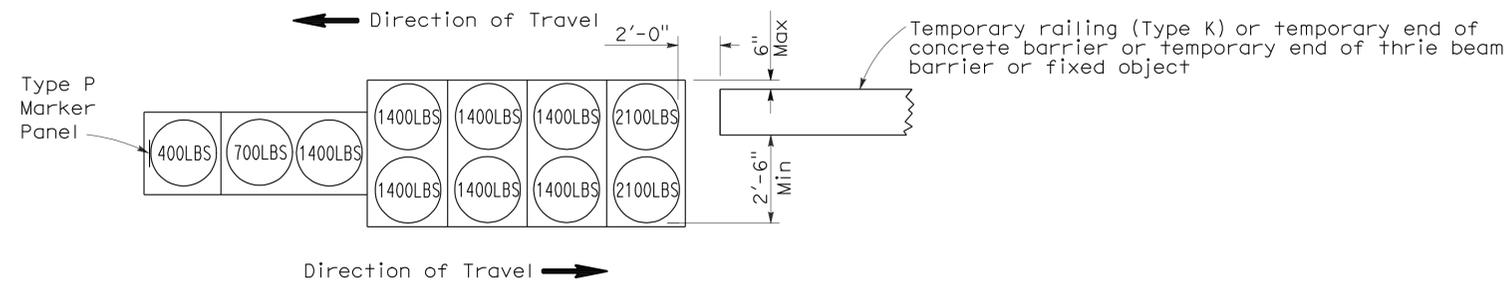
*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

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.*

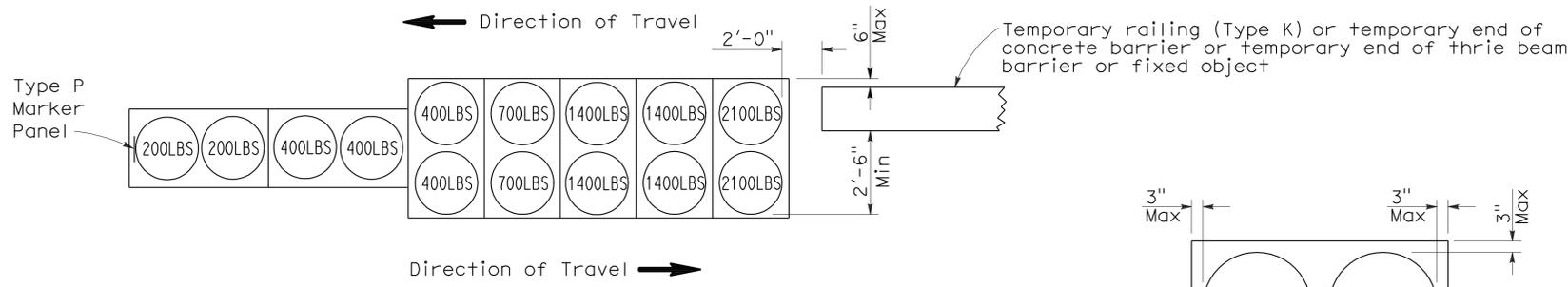


To accompany plans dated 3-12-12



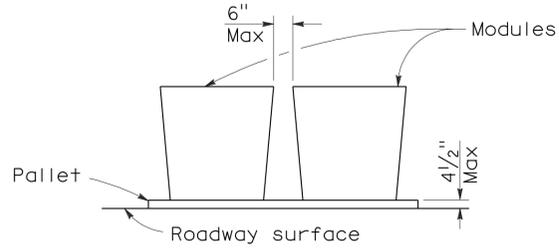
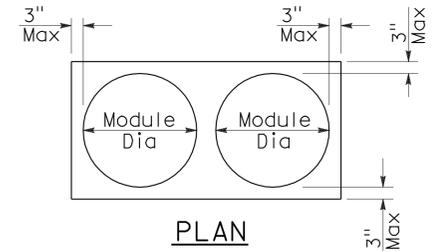
**ARRAY 'TB11'**

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

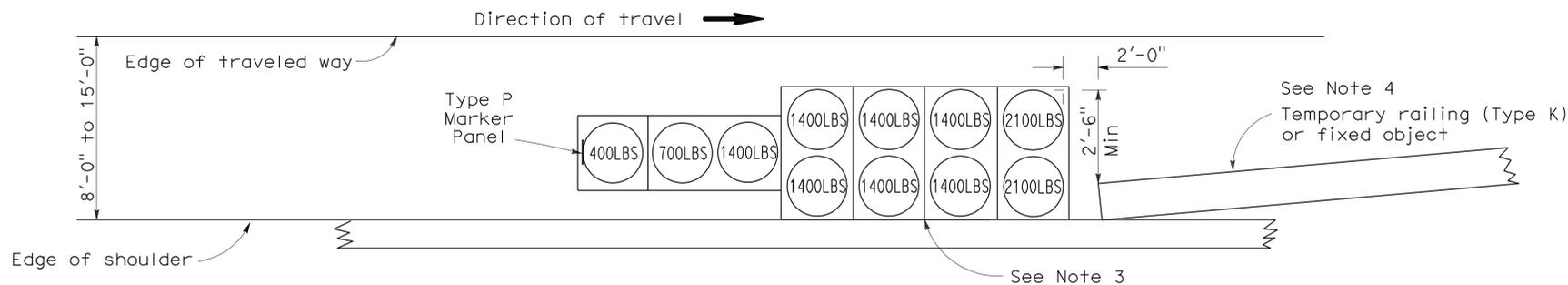
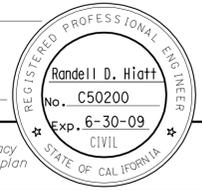
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	Hum	299	R4.2	8	12

*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

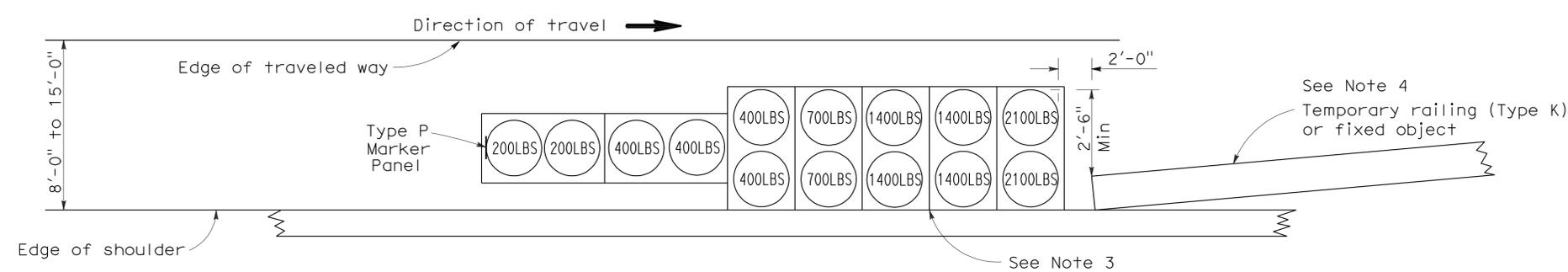
June 6, 2008  
PLANS APPROVAL DATE

*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.*

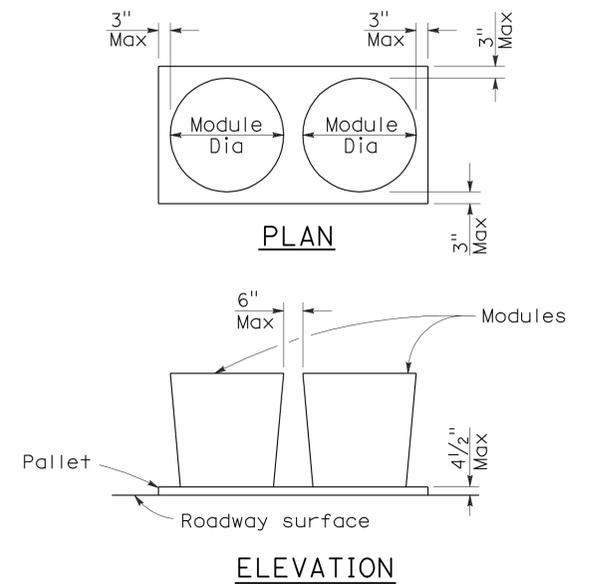
To accompany plans dated 3-12-12



**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:**

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

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

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

NO SCALE  
RSP T2 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T2  
DATED MAY 1, 2006 - PAGE 213 OF THE STANDARD PLANS BOOK DATED MAY 2006.

**REVISED STANDARD PLAN RSP T2**

2006 REVISED STANDARD PLAN RSP T2

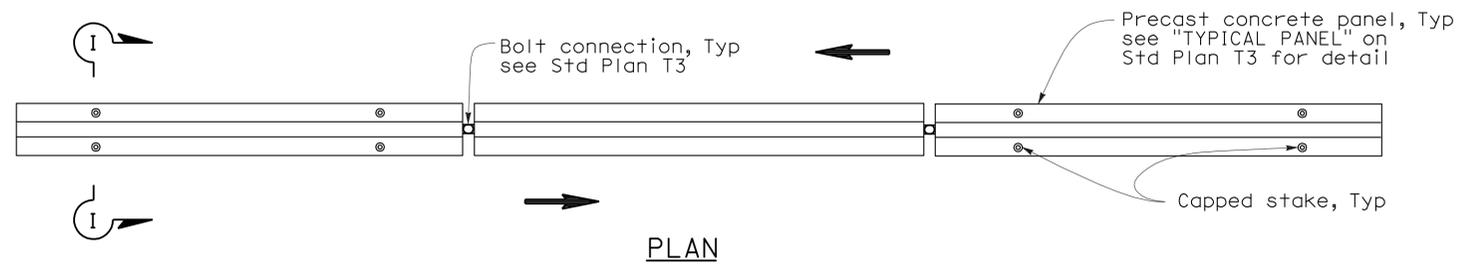
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	299	R4.2	9	12

*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

May 20, 2011  
PLANS APPROVAL DATE

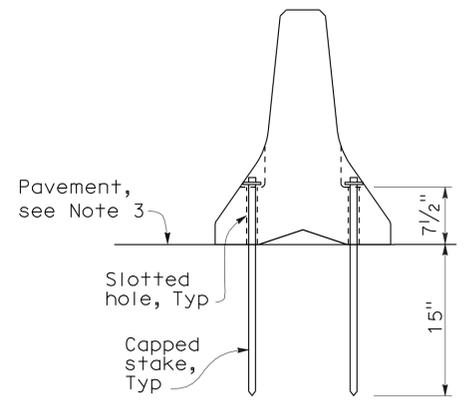
*The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.*

To accompany plans dated 3-12-12



**RAILING STAKING CONFIGURATION FOR TWO-WAY TRAFFIC**

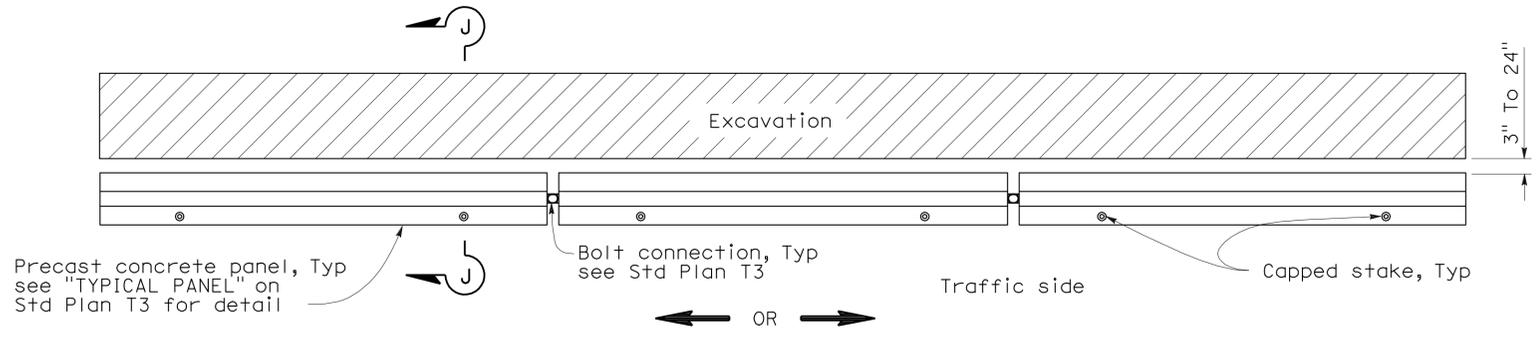
See Note 1



**SECTION I-I**

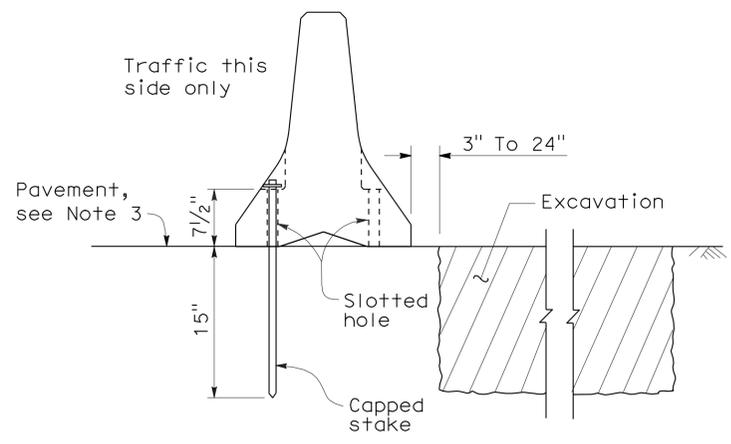
**NOTES:**

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  $\Rightarrow$ .

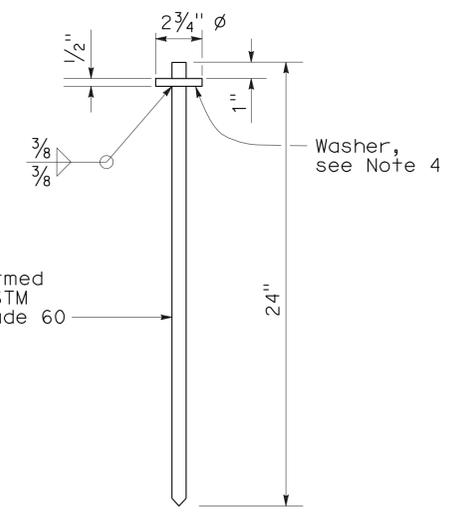


**RAILING STAKING CONFIGURATION ADJACENT TO AN EXCAVATION**

See Note 2



**SECTION J-J**



**CAPPED STAKE DETAIL**

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**TEMPORARY RAILING  
(TYPE K)**

NO SCALE

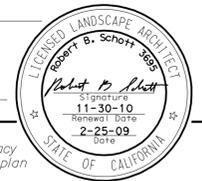
NSP T3A DATED MAY 20, 2011 SUPPLEMENTS  
THE STANDARD PLANS BOOK DATED MAY 2006.

2006 NEW STANDARD PLAN NSP T3A

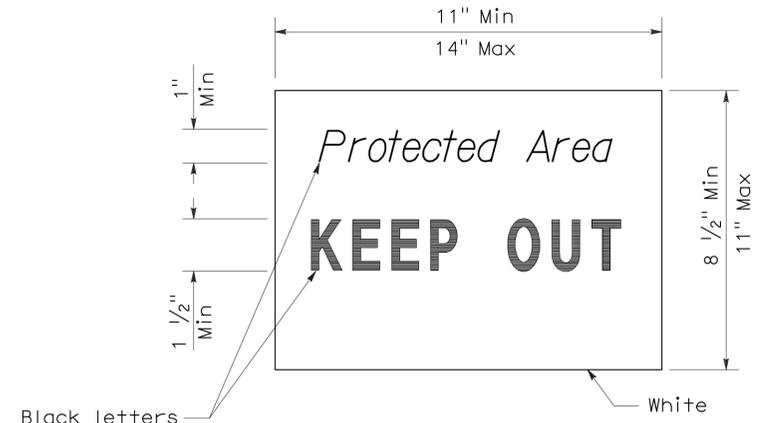


DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	Hum	299	R4.2	11	12

*Robert B. Schott*  
 LICENSED LANDSCAPE ARCHITECT  
 April 3, 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.



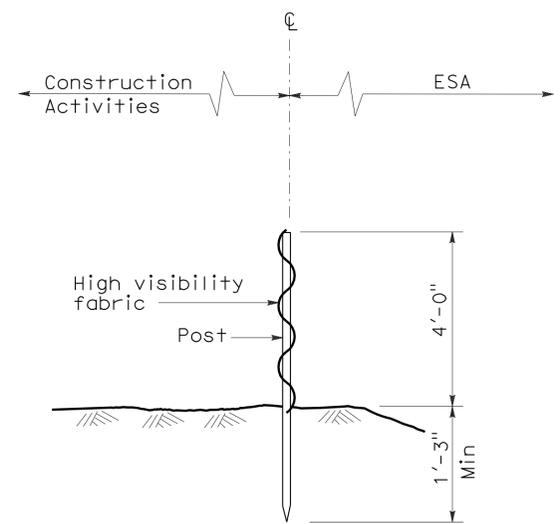
To accompany plans dated 3-12-12



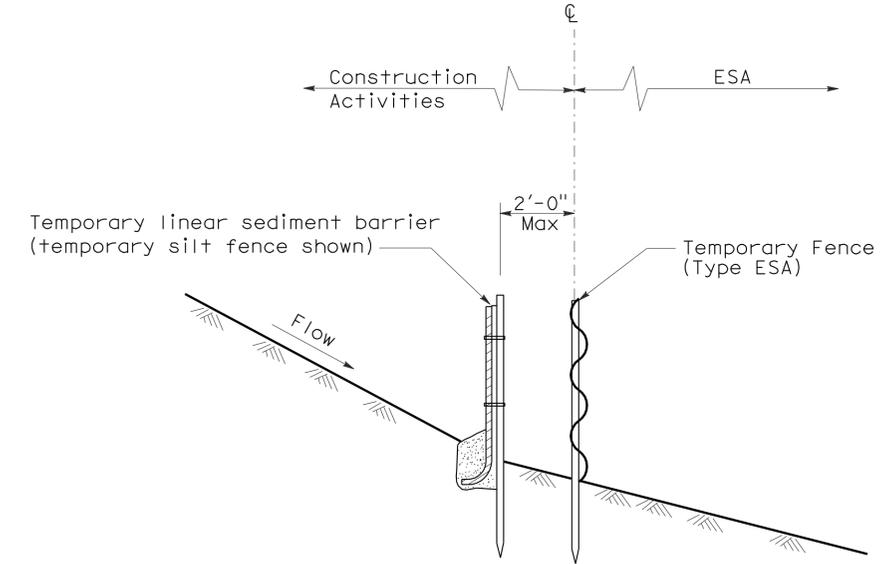
SIGN DETAIL

**NOTE:**

1. Temporary silt fence and temporary straw bale barrier shown for reference purposes only.

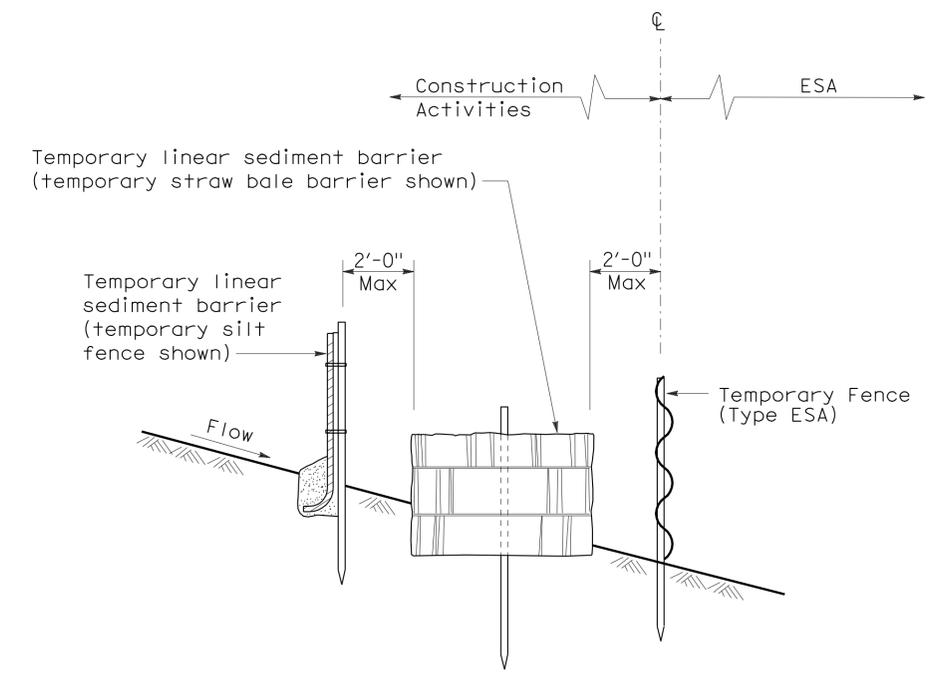


SECTION TEMPORARY FENCE (TYPE ESA)



SECTION PLACEMENT DETAIL FOR TEMPORARY LINEAR SEDIMENT BARRIER USED WITH TEMPORARY FENCE (TYPE ESA)

(See Note 1 )



SECTION PLACEMENT DETAIL FOR TEMPORARY SILT FENCE AND TEMPORARY STRAW BALE BARRIER USED WITH TEMPORARY FENCE (TYPE ESA)

(See Note 1 )

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**TEMPORARY WATER POLLUTION CONTROL DETAILS [TEMPORARY FENCE (TYPE ESA)]**

NO SCALE

NSP T65 DATED APRIL 3, 2009 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

2006 NEW STANDARD PLAN NSP T65

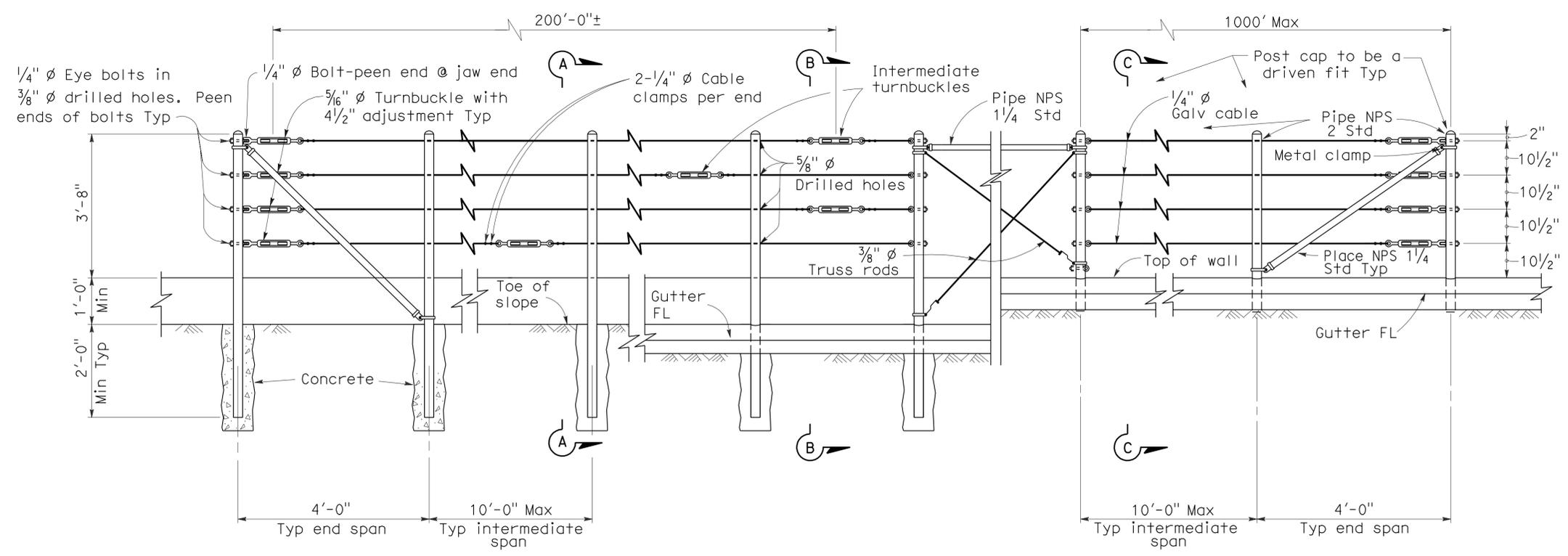
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	Hum	299	R4.2	12	12

REGISTERED CIVIL ENGINEER		
October 21, 2011		
PLANS APPROVAL DATE		

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

To accompany plans dated 3-12-12

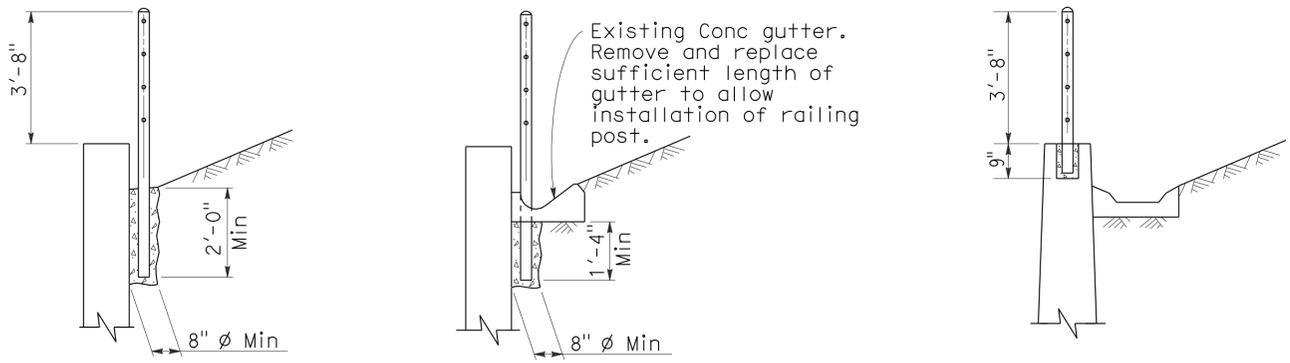


**EXISTING WALL (WITHOUT GUTTER)** Existing  
**RETAINING WALL (WITH GUTTER)** Existing  
**RETAINING WALL (WITH GUTTER)** New construction

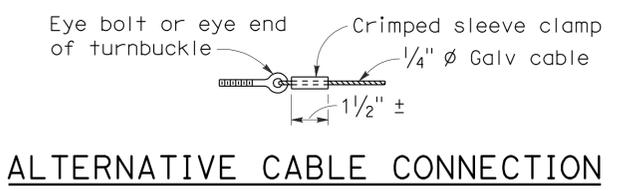
**ELEVATION**

**NOTES:**

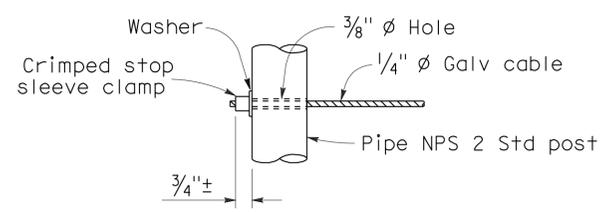
1. Maximum distance between turnbuckles shall be 200'-0"±.
2. Intermediate turnbuckles to be placed in adjacent spans.
3. Cable shall not be spliced between intermediate turnbuckles and end posts.
4. All posts, cable, and hardware to be galvanized.
5. Posts to be vertical.
6. Alignment of holes in posts may vary to conform to slope of top of retaining wall.
7. The Contractor shall verify all dependent dimensions in the field before ordering or fabricating any material.
8. Alternative details may be submitted by the Contractor for approval by the Engineer.
9. Line posts shall be braced horizontally and trussed diagonally in both directions at intervals not to exceed 1000'.
10. Post pockets to be centered in top of wall.
11. Typical end spans, braced in both directions, shall be constructed at changes in line where the angle of deflection is 15° or more.
12. Provide thimbles at all cable loops.



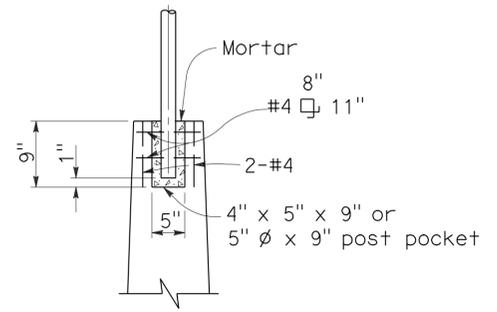
**SECTION A-A** Existing  
**SECTION B-B** Existing  
**SECTION C-C** New construction



**ALTERNATIVE CABLE CONNECTION**



**ALTERNATIVE DEAD END ANCHORAGE**



**POST POCKET**

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**CABLE RAILING**

NO SCALE

RSP B11-47 DATED OCTOBER 21, 2011 SUPERSEDES STANDARD PLAN B11-47 DATED MAY 1, 2006 - PAGE 268 OF THE STANDARD PLANS BOOK DATED MAY 2006.

**REVISED STANDARD PLAN RSP B11-47**

2006 REVISED STANDARD PLAN RSP B11-47