

INDEX OF PLANS

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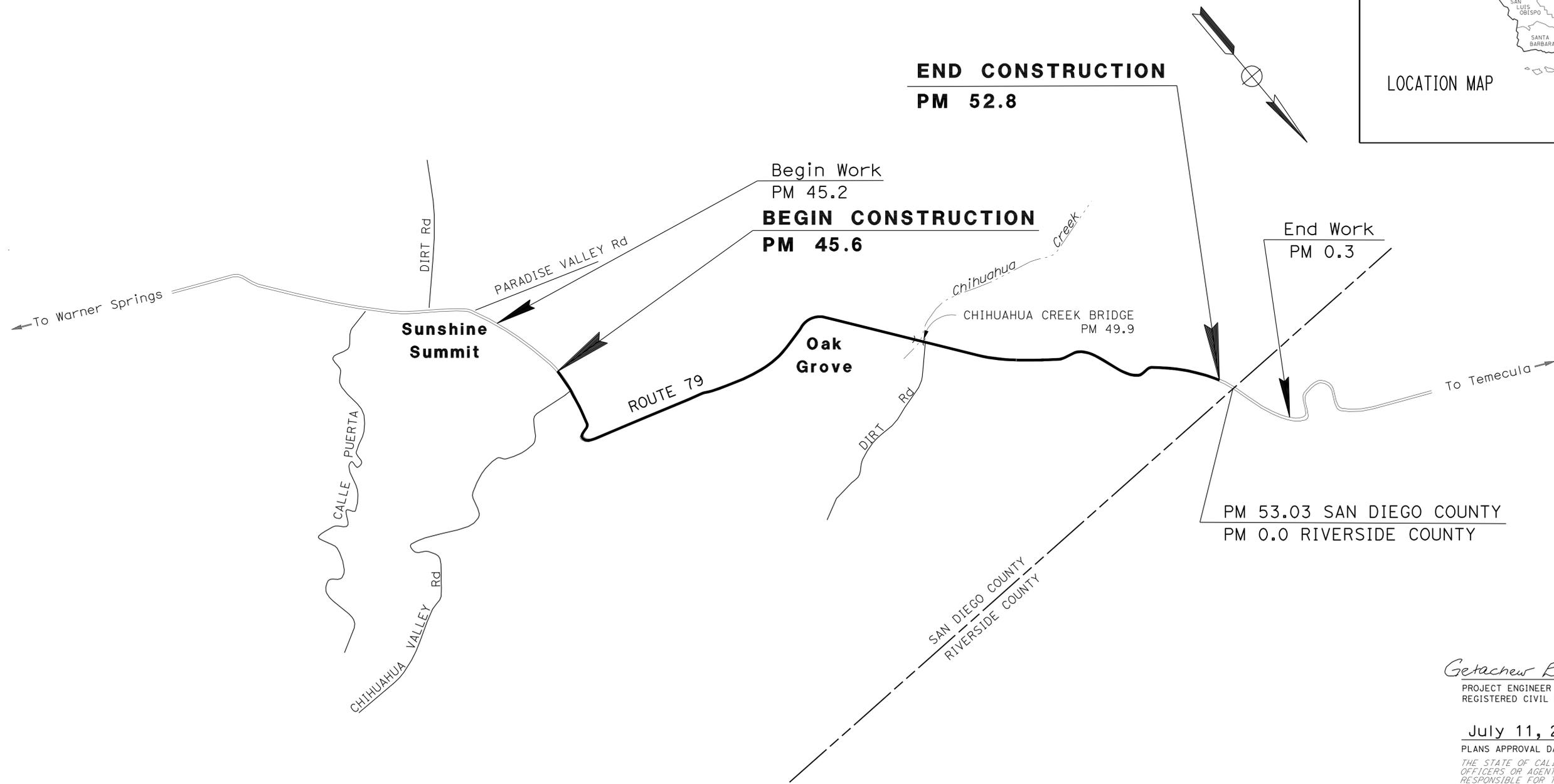
THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON  
STATE HIGHWAY  
IN SAN DIEGO COUNTY  
ABOUT 10.0 MILES NORTH OF WARNER SPRINGS  
FROM 0.2 MILE SOUTH OF CHIHUAHUA VALLEY ROAD  
TO 0.2 MILE SOUTH OF RIVERSIDE COUNTY LINE

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	79	45.6/52.8	1	26



PROJECT MANAGER SAMER SHAATH
DESIGN ENGINEER GETACHEW ESHETE

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

NO SCALE

Getachew Eshete 3-30-11  
PROJECT ENGINEER REGISTERED CIVIL ENGINEER DATE  
July 11, 2011  
PLANS APPROVAL DATE  
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

CONTRACT No.	11-298704
PROJECT ID	1100000419

DATE PLOTTED => 12-JUL-2011 TIME PLOTTED => 14:31

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 06-DESIGN  
 FUNCTIONAL SUPERVISOR  
 GETACHEW ESHETE  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 DARAXAY PHENGDARA  
 GETACHEW ESHETE  
 REVISED BY  
 DATE REVISED

**NOTES:**

1. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
3. THE EXACT LIMITS OF EMBANKMENT WILL BE DETERMINED BY THE ENGINEER.

**DESIGN DESIGNATION**

ADT (2009)	1100	D	54%
ADT (2030)	1600	T	11%
DHV	260	V	N/A
ESAL	1,598,975	TI <sub>20</sub>	10

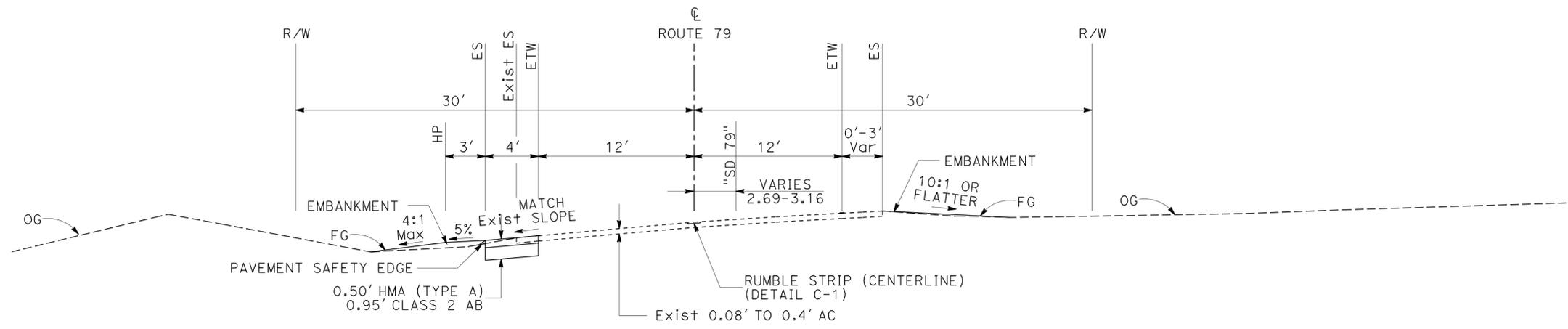
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	79	45.6/52.8	2	26

Getachew Eshete 3-30-11  
 REGISTERED CIVIL ENGINEER DATE

7-11-11  
 PLANS APPROVAL DATE

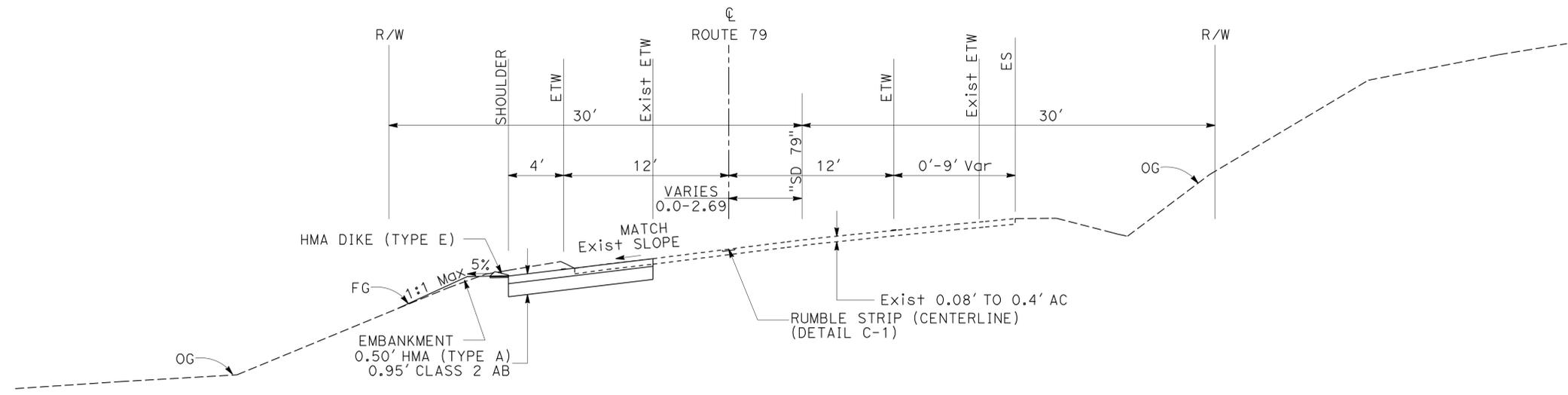
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER  
 GETACHEW ESHETE  
 No. 52245  
 Exp. 12-31-12  
 CIVIL  
 STATE OF CALIFORNIA



**ROUTE 79**

STA: 590+34.22 TO STA: 595+00.00



**ROUTE 79**

STA: 588+44.00 TO STA: 590+34.22

EXISTING UTILITIES HAVE NOT BEEN PLOTTED.

**TYPICAL CROSS SECTIONS**

NO SCALE

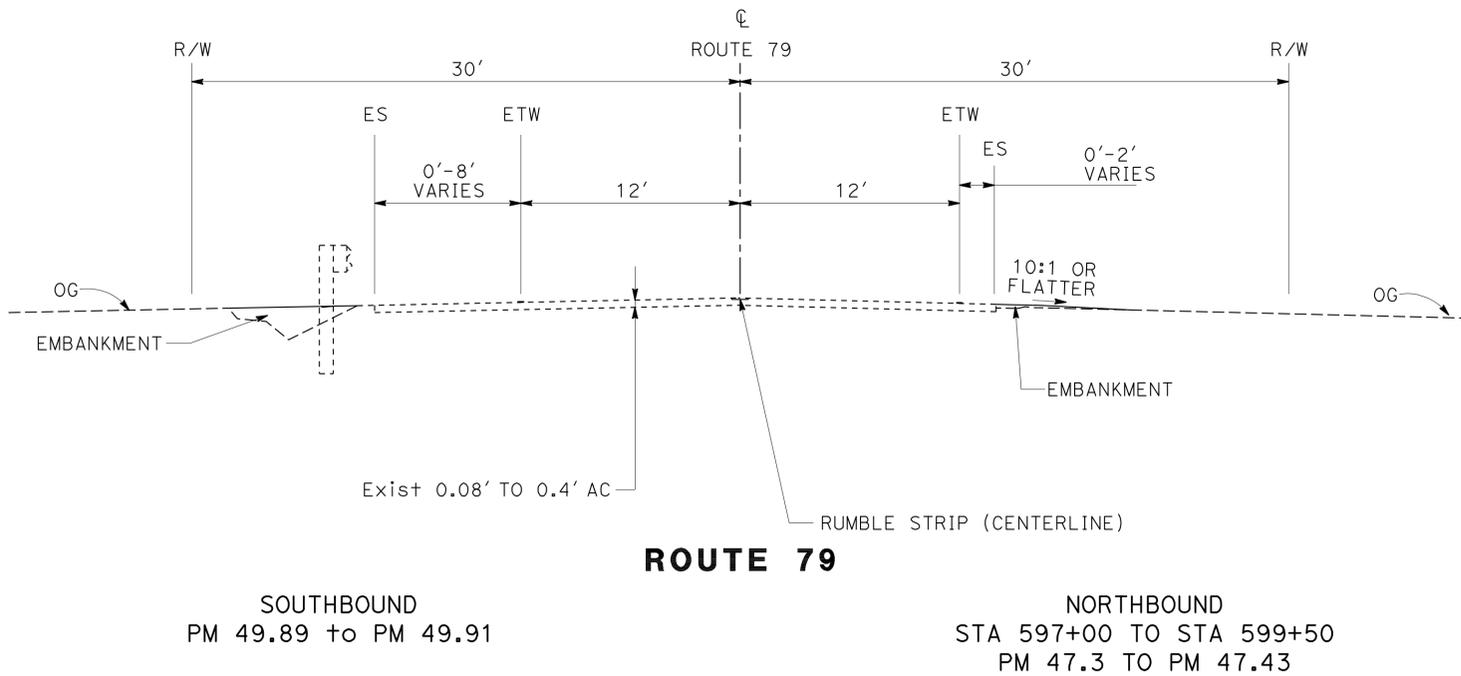
**X-1**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	79	45.6/52.8	3	26

*Getachew Eshete* 3-30-11  
 REGISTERED CIVIL ENGINEER DATE  
 7-11-11  
 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.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	DARAXAY PHENGDARA	REVISED BY	
<b>06 - DESIGN</b>	GETACHEW ESHETE	CHECKED BY	GETACHEW ESHETE	DATE REVISED	
<b>Caltrans</b>					



**ROUTE 79**  
 SOUTHBOUND PM 49.89 to PM 49.91  
 NORTHBOUND STA 597+00 TO STA 599+50 PM 47.3 TO PM 47.43

**TYPICAL CROSS SECTION**  
 NO SCALE  
**X-2**

EXISTING UTILITIES HAVE NOT BEEN PLOTTED.

LAST REVISION DATE PLOTTED => 19-AUG-2011  
 03-24-11 TIME PLOTTED => 10:06

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	79	45.6/52.8	4	26

Getachew Eshete 3-30-11  
 REGISTERED CIVIL ENGINEER DATE  
 7-11-11  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 GETACHEW ESHETE  
 No. 52245  
 Exp. 12-31-12  
 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.

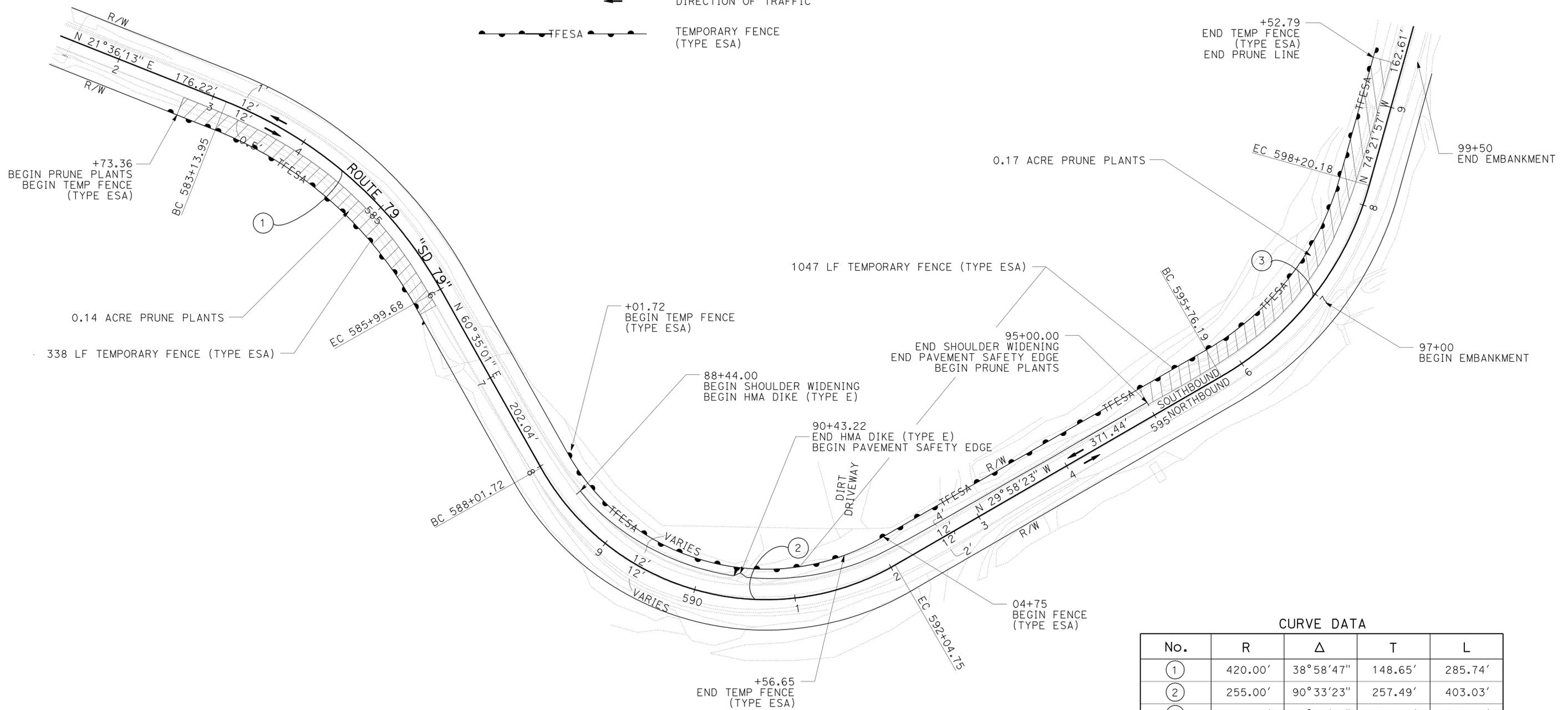
**NOTE:**  
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

**LEGEND:**

 PRUNE PLANTS

 DIRECTION OF TRAFFIC

 TEMPORARY FENCE (TYPE ESA)



**CURVE DATA**

No.	R	Δ	T	L
①	420.00'	38°58'47"	148.65'	285.74'
②	255.00'	90°33'23"	257.49'	403.03'
③	314.91'	44°23'34"	128.49'	243.99'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 06 - DESIGN  
 FUNCTIONAL SUPERVISOR: GETACHEW ESHETE  
 CALCULATED/DESIGNED BY: GETACHEW ESHETE  
 CHECKED BY:  
 DARAXAY PHENGDARA  
 GETACHEW ESHETE  
 REVISED BY: DATE REVISED:  
 x x x x x

EXISTING UTILITIES HAVE NOT BEEN PLOTTED.



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

LAST REVISION: DATE PLOTTED => 19-AUG-2011    TIME PLOTTED => 10:06

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	79	45.6/52.8	5	26

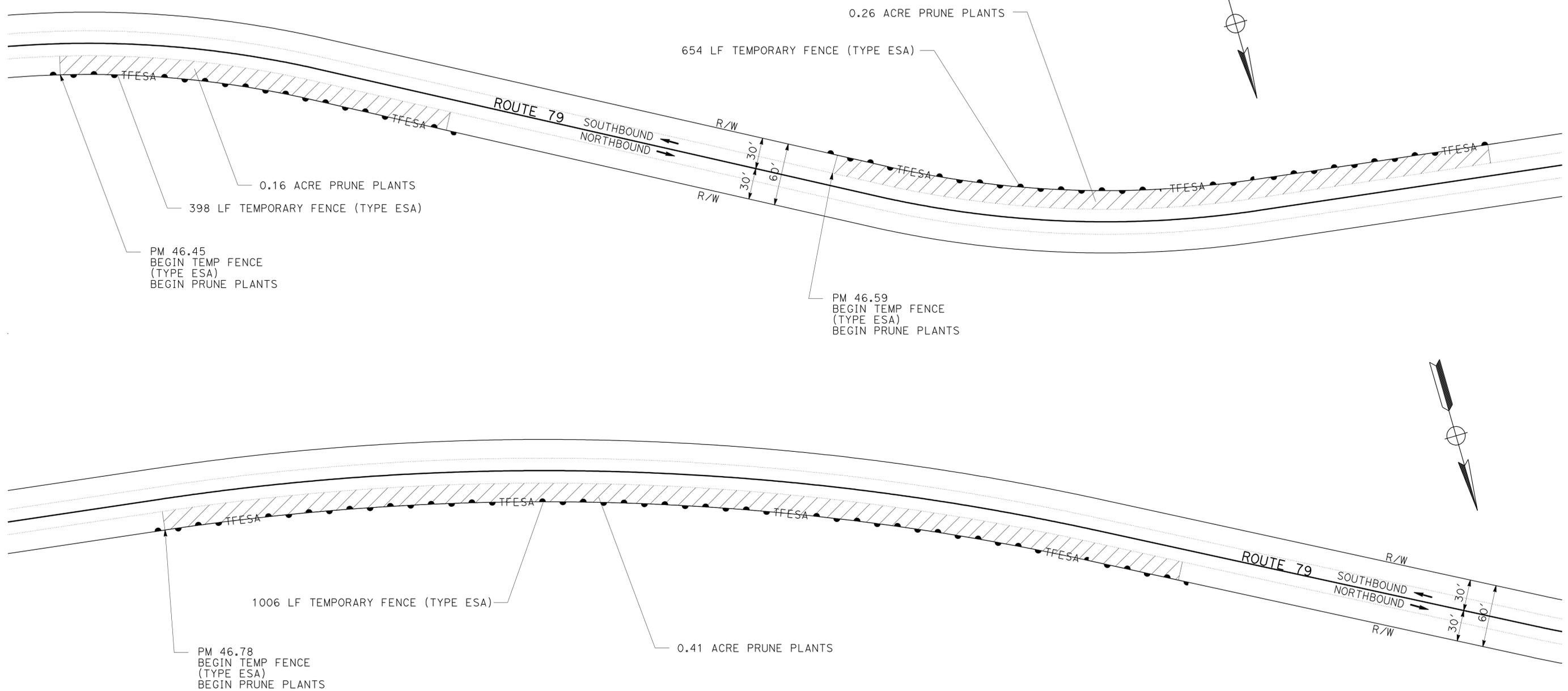
Getachew Eshete 3-30-11	
REGISTERED CIVIL ENGINEER	DATE
7-11-11	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER
GETACHEW ESHETE
No. 52245
Exp. 12-31-12
CIVIL

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

**NOTE:**  
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 06 - DESIGN  
 FUNCTIONAL SUPERVISOR: GETACHEW ESHETE  
 CALCULATED/DESIGNED BY: GETACHEW ESHETE  
 CHECKED BY:  
 DARAXAY PHENGDARA  
 GETACHEW ESHETE  
 REVISED BY: DATE REVISED:

EXISTING UTILITIES HAVE NOT BEEN PLOTTED.

**LAYOUT**  
SCALE: 1" = 50' **L-2**

LAST REVISION: 03-24-11 DATE PLOTTED => 19-AUG-2011 TIME PLOTTED => 10:06

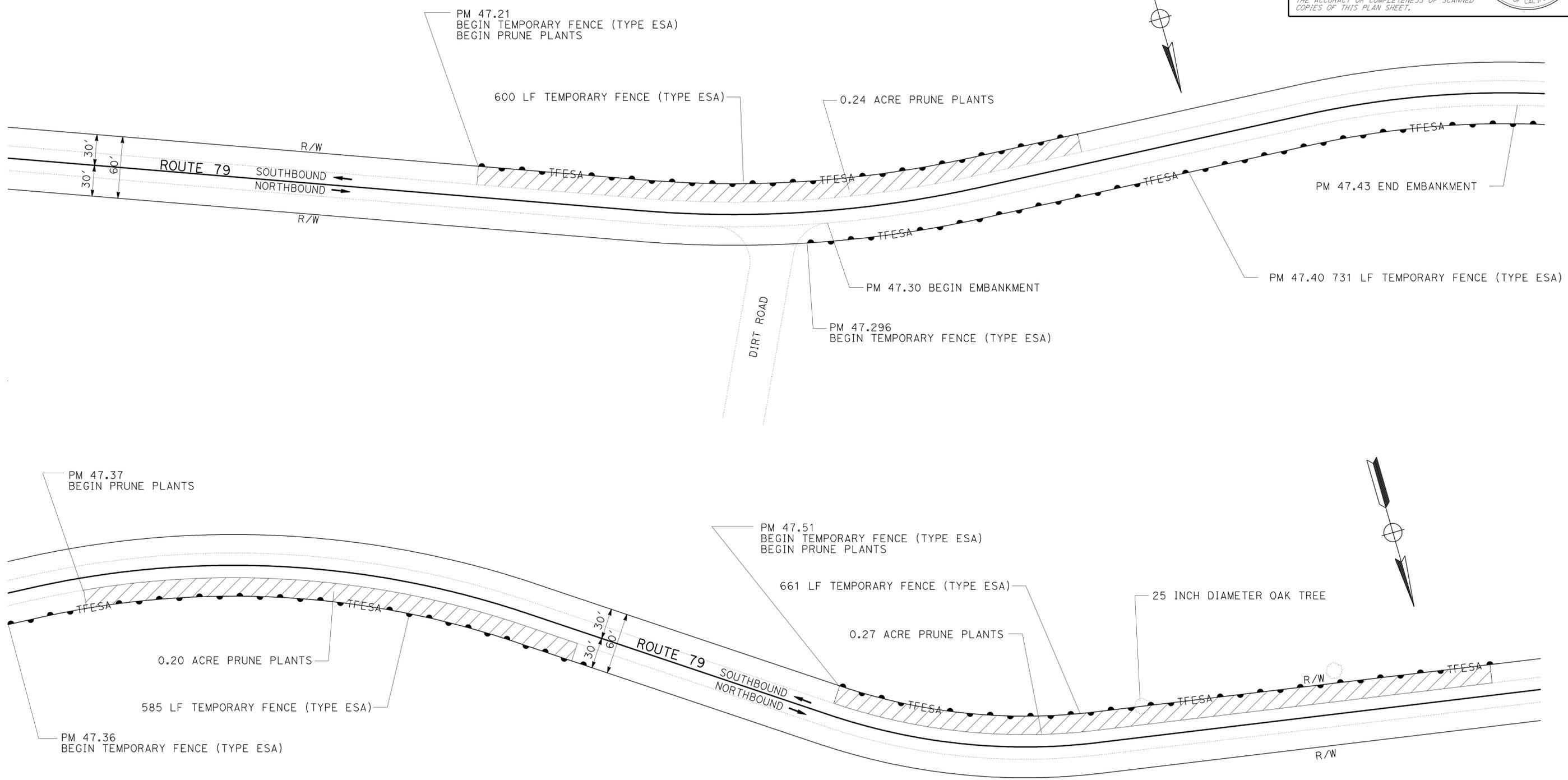
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	79	45.6/52.8	6	26

Getachew Eshete 3-30-11  
 REGISTERED CIVIL ENGINEER DATE  
 7-11-11  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 GETACHEW ESHETE  
 No. 52245  
 Exp. 12-31-12  
 CIVIL  
 STATE OF CALIFORNIA

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**NOTE:**  
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



STATE OF CALIFORNIA	DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	REVISOR
<b>Caltrans</b>	<b>06-DESIGN</b>	GETACHEW ESHETE	DARAXAY PHENGDARA
		CHECKED BY	DATE REVISED
		DESIGNED BY	
			GETACHEW ESHETE

EXISTING UTILITIES HAVE NOT BEEN PLOTTED

SCALE: 1" = 50'

**LAYOUT**  
**L-3**

LAST REVISION     
 DATE PLOTTED => 13-JUL-2011     
 TIME PLOTTED => 06:01

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	79	45.6/52.8	7	26

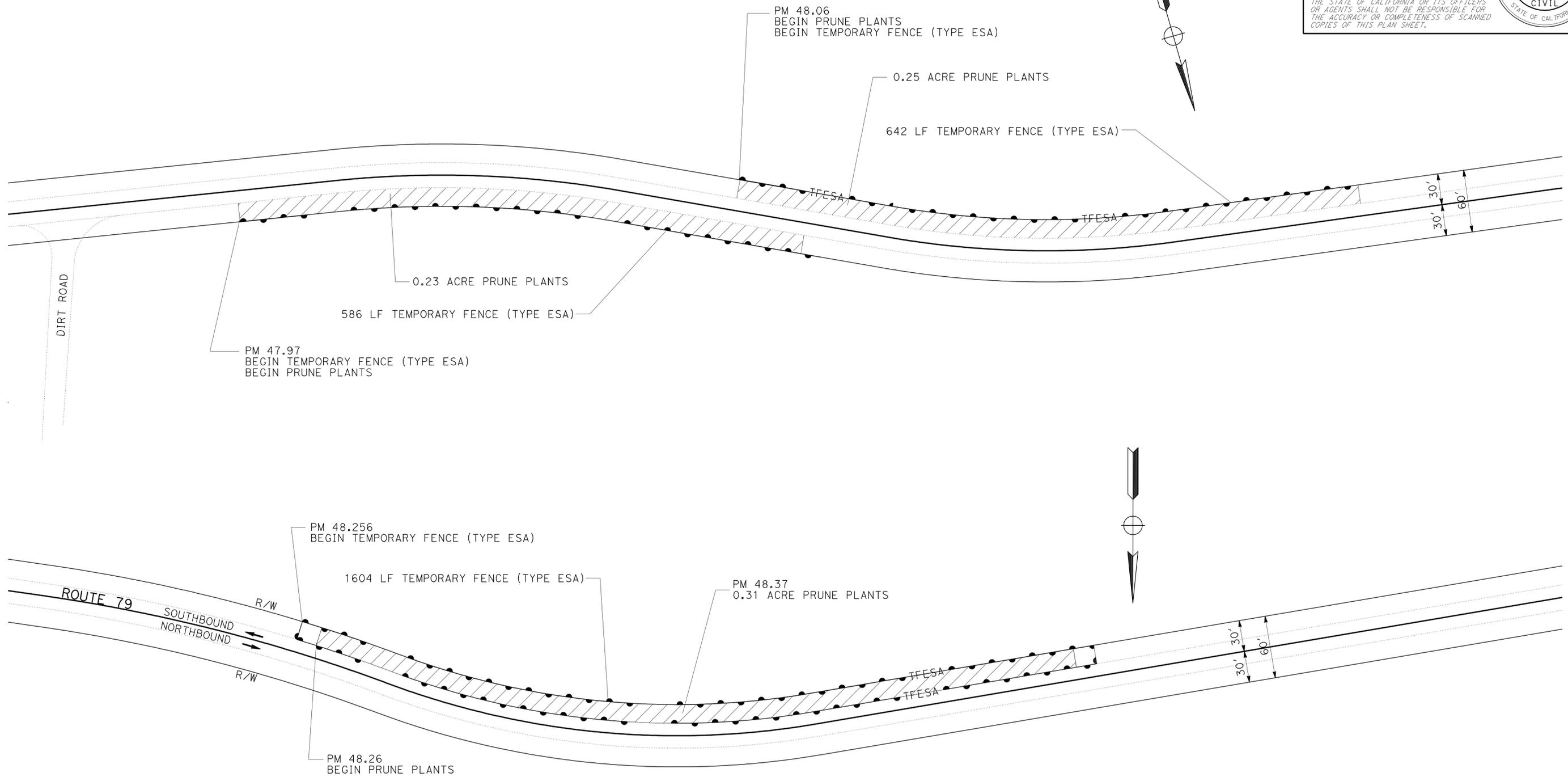
Getachew Eshete 3-30-11  
 REGISTERED CIVIL ENGINEER DATE  
 7-11-11  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 GETACHEW ESHETE  
 No. 52245  
 Exp. 12-31-12  
 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.

**NOTE:**  
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

STATE OF CALIFORNIA	DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	REVISOR
<b>Caltrans</b>	<b>06-DESIGN</b>	GETACHEW ESHETE	DARAXAY PHENGDARA
		CHECKED BY	DATE REVISED
		DESIGNED BY	
			GETACHEW ESHETE



EXISTING UTILITIES HAVE NOT BEEN PLOTTED

SCALE: 1" = 50'

**LAYOUT**  
**L-4**

LAST REVISION DATE PLOTTED => 12-JUL-2011  
 03-24-11 TIME PLOTTED => 15:26



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	79	45.6/52.8	9	26

Getachew Eshete 3-30-11	
REGISTERED CIVIL ENGINEER	DATE
7-11-11	
PLANS APPROVAL DATE	

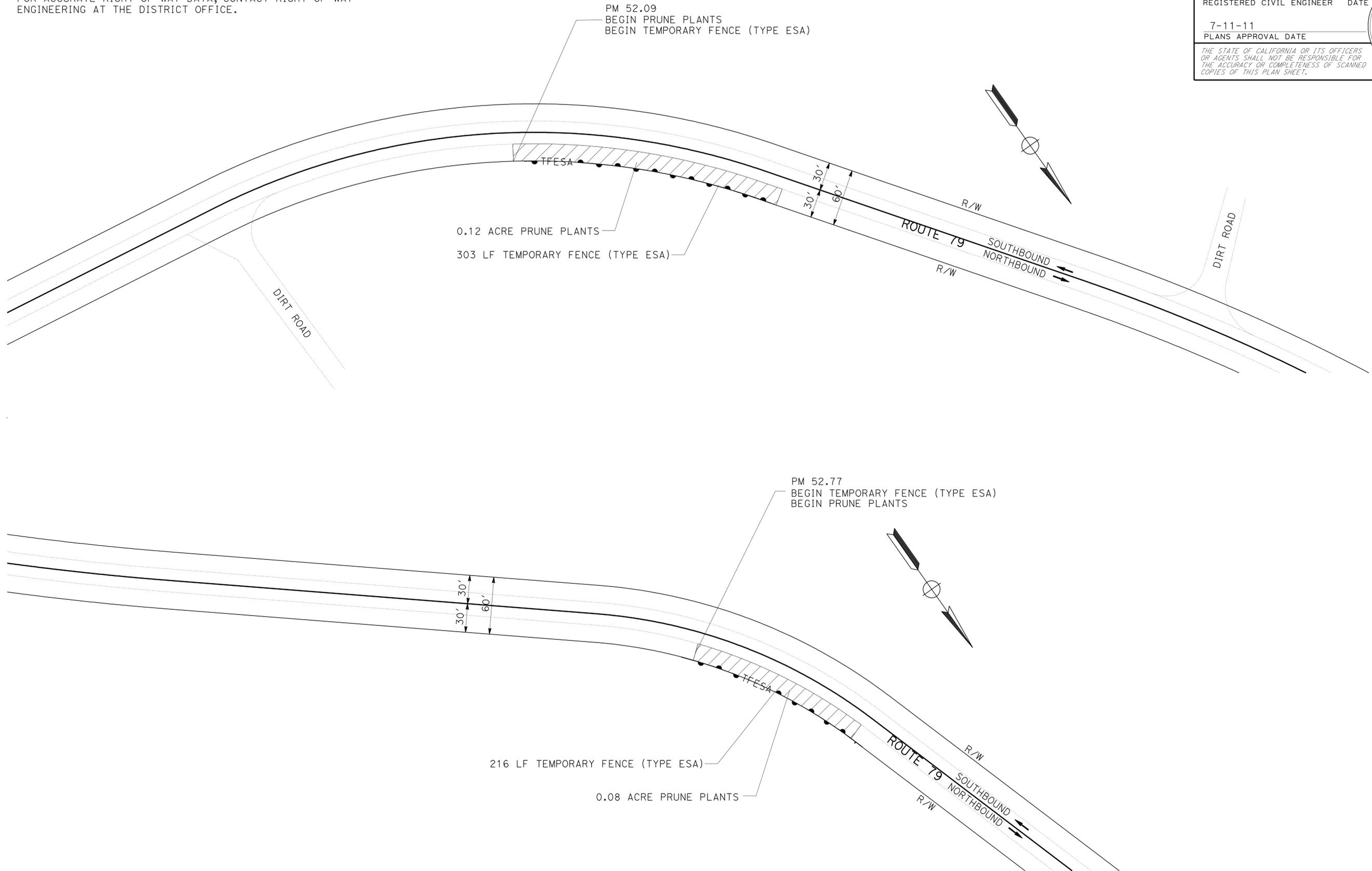
  

REGISTERED PROFESSIONAL ENGINEER
GETACHEW ESHETE
No. 52245
Exp. 12-31-12
CIVIL
STATE OF CALIFORNIA

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.

**NOTE:**

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



STATE OF CALIFORNIA	DEPARTMENT OF TRANSPORTATION	06-DESIGN	FUNCTIONAL SUPERVISOR	GETACHEW ESHETE	CALCULATED/DESIGNED BY	CHECKED BY	DARAXAY PHENGDARA	REVISOR	DATE
Caltrans							GETACHEW ESHETE		

EXISTING UTILITIES HAVE NOT BEEN PLOTTED

SCALE: 1" = 50'

**LAYOUT**  
**L-6**



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	79	45.6/52.8	10	26

<i>Getachew Eshete</i> 3-30-11	
REGISTERED CIVIL ENGINEER	DATE
7-11-11	
PLANS APPROVAL DATE	

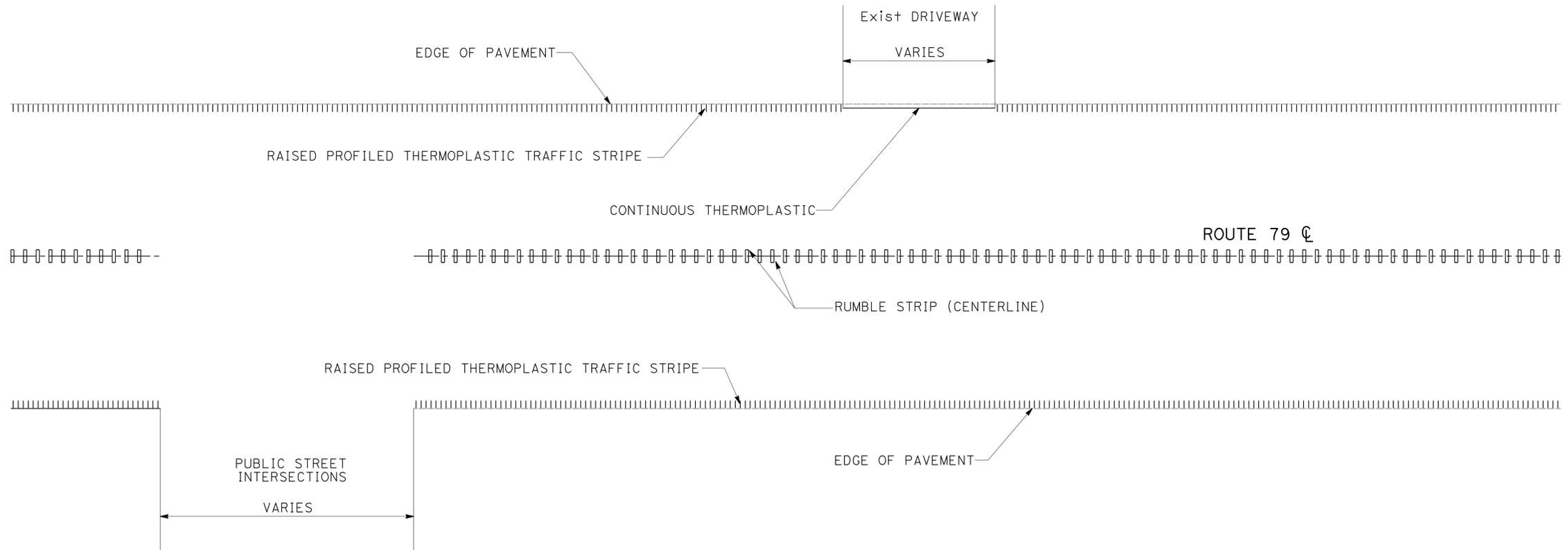
  

REGISTERED PROFESSIONAL ENGINEER GETACHEW ESHETE No. 52245 Exp. 12-31-12 CIVIL STATE OF CALIFORNIA	
---	--

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.

**NOTES:**

- CENTERLINE RUMBLE STRIPS SHOULD BE BROKEN FOR ALL PUBLIC STREET INTERSECTIONS.
- CENTERLINE RUMBLE STRIPS SHOULD NOT BE BROKEN FOR RESIDENTIAL DRIVEWAYS.
- CONTINUOUS WHITE EDGELINE (DETAIL 27B) SHALL BE STANDARD THERMOPLASTIC RAISED PROFILED THERMOPLASTIC STRIPE IN BETWEEN THE BREAKS OF DRIVEWAYS.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	REVISOR	DATE
<b>Caltrans</b>	GETACHEW ESHETE	DARAXAY PHENGDARA	7/2/2010
06 - DESIGN	DESIGNED BY	GETACHEW ESHETE	
	CHECKED BY		
		REVISOR	DATE

**CONSTRUCTION DETAILS**

NO SCALE

**C-1**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	79	45.6/52.8	11	26

Getachew Eshete 3-30-11	
REGISTERED CIVIL ENGINEER	DATE
7-11-11	
PLANS APPROVAL DATE	

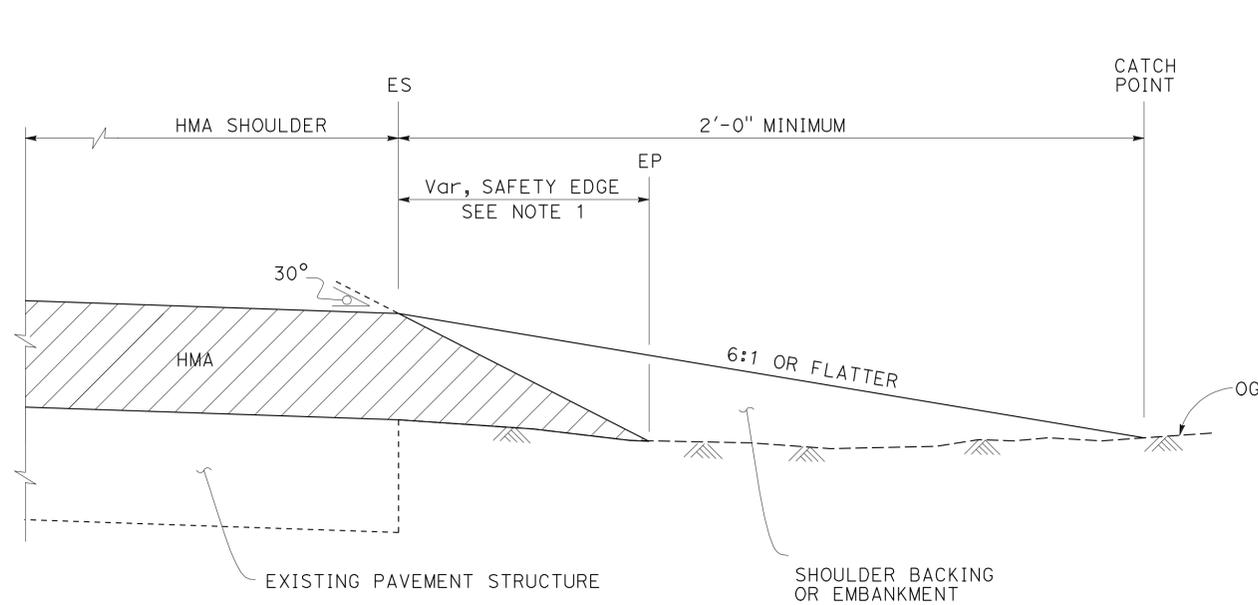
REGISTERED PROFESSIONAL ENGINEER
GETACHEW ESHETE
No. 52245
Exp. 12-31-12
CIVIL
STATE OF CALIFORNIA

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.

**NOTE:**

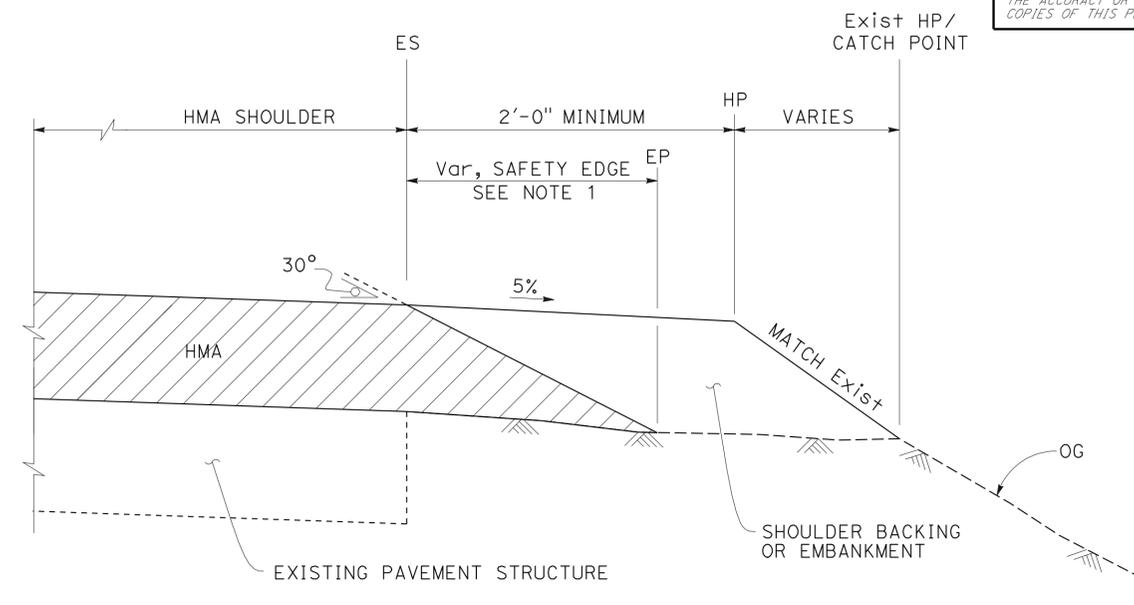
1. DETAILS SHOWN FOR HEIGHT OF SAFETY EDGE IS 5" OR LESS.  
SEE DETAIL "A" WHEN THE HEIGHT OF SAFETY EDGE IS MORE THAN 5".

**LEGEND**



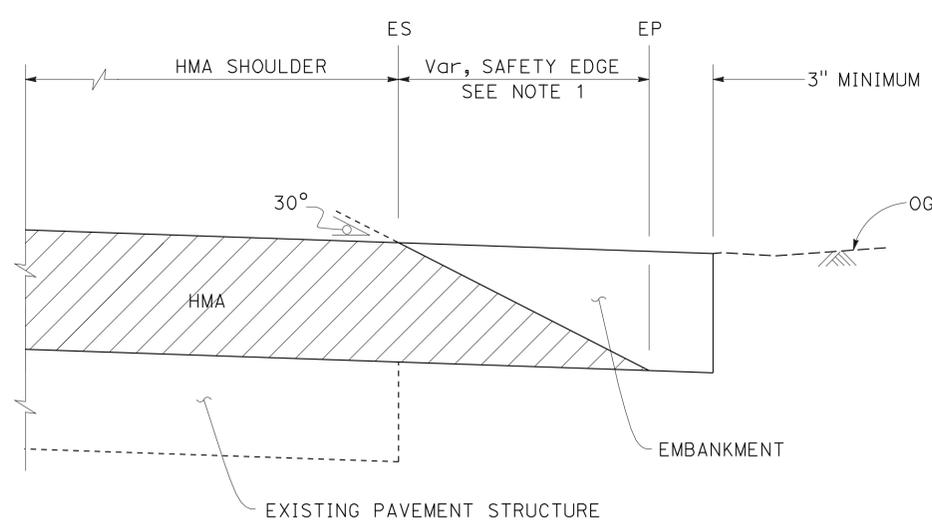
**CASE A**  
EXISTING SIDE SLOPE IS 6:1 OR FLATTER

**SECTION A-A**



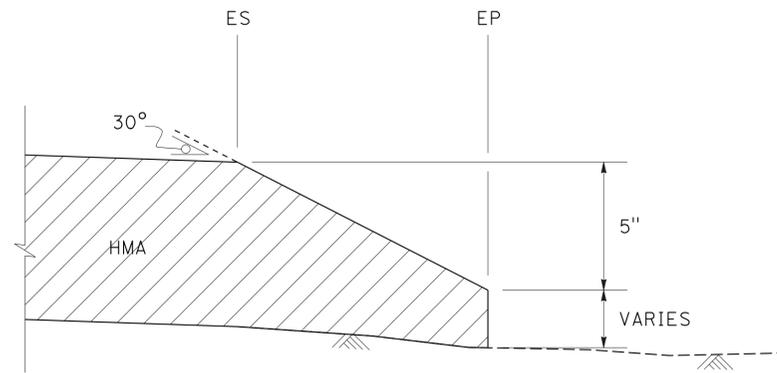
**CASE B**  
EXISTING SIDE SLOPE IS STEEPER THAN 6:1

**SECTION A-A**

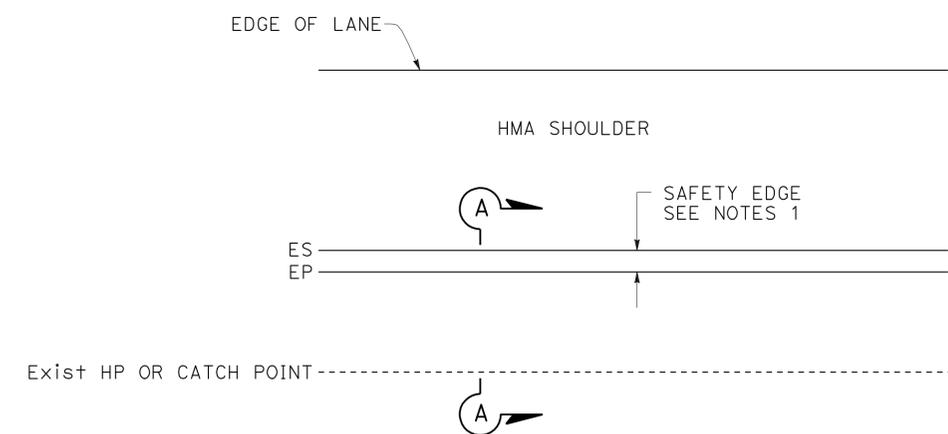


**CASE C**  
WITH ROADWAY EXCAVATION OR COLD PLANE

**SECTION A-A**



**DETAIL "A"**  
FOR USE WHEN THE HEIGHT OF SAFETY EDGE IS MORE THAN 5"



**PLAN HIGHWAY**

**PAVEMENT SAFETY EDGE**

**CONSTRUCTION DETAILS**

NO SCALE

**C-2**

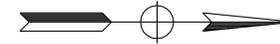
EXISTING UTILITIES HAVE NOT BEEN PLOTTED.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 06-DESIGN  
 FUNCTIONAL SUPERVISOR  
 GETACHEW ESHETE  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 DARAXAY PHENGDARA  
 GETACHEW ESHETE  
 REVISED BY  
 DATE REVISED

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	79	45.6/52.8	12	26

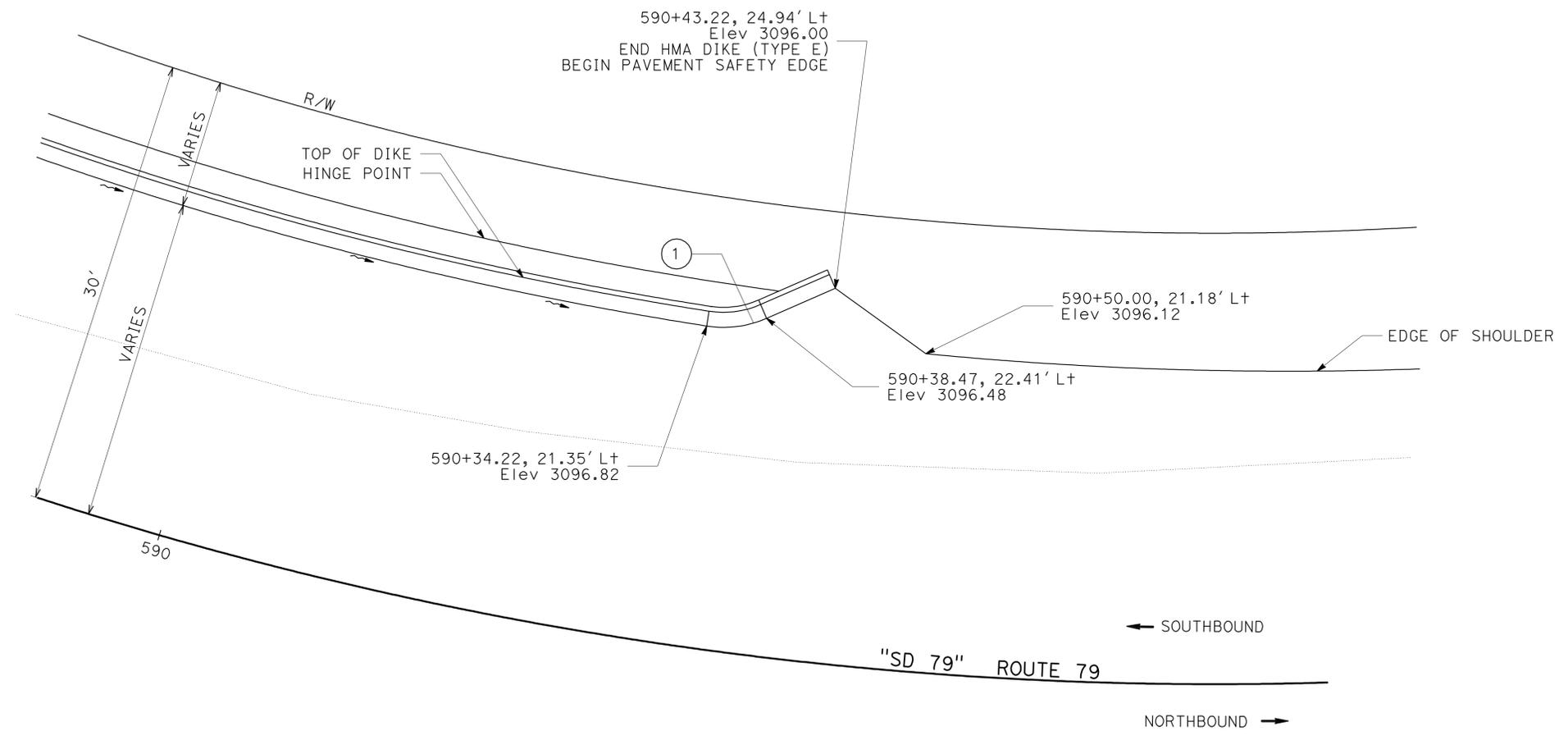
Getachew Eshete 3-30-11  
 REGISTERED CIVIL ENGINEER DATE  
 7-11-11  
 PLANS APPROVAL DATE

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.



CURVE DATA

No.	R	$\Delta$	T	L
①	7.22'	32°23'58"	2.10'	4.08'



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 06 - DESIGN  
 FUNCTIONAL SUPERVISOR: GETACHEW ESHETE  
 CALCULATED/DESIGNED BY: GETACHEW ESHETE  
 CHECKED BY:  
 DARAXAY PHENGDARA  
 GETACHEW ESHETE  
 REVISED BY: DATE REVISED:

EXISTING UTILITIES HAVE NOT BEEN PLOTTED.

**CONSTRUCTION DETAILS**

SCALE: 1" = 5'

**C-3**



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	79	45.6/52.8	14	26

Getachew Eshete 3-30-11	
REGISTERED CIVIL ENGINEER	DATE
7-11-11	
PLANS APPROVAL DATE	

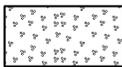
No. 52245	
Exp. 12-31-12	
CIVIL	

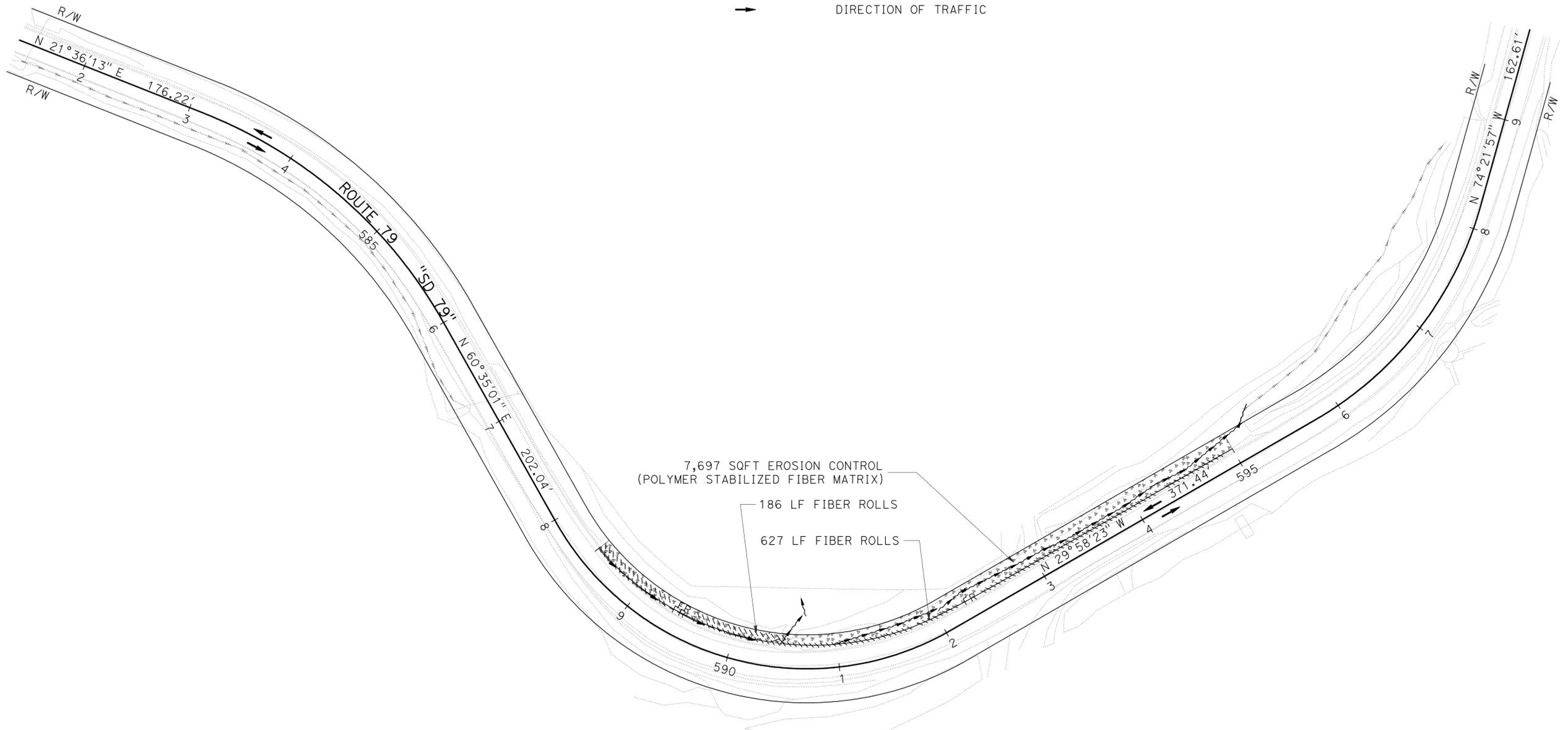
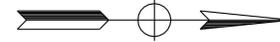
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

**NOTES:**

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- EXACT LOCATION OF EROSION CONTROL TO BE DETERMINED BY THE ENGINEER.

**LEGEND:**

-  EROSION CONTROL (POLYMER STABILIZED FIBER MATRIX)
-  FR FIBER ROLL
-  DIRECTION OF TRAFFIC



STATE OF CALIFORNIA	DEPARTMENT OF TRANSPORTATION
<b>Caltrans</b>	<b>06 - DESIGN</b>
FUNCTIONAL SUPERVISOR	GETACHEW ESHETE
CALCULATED/DESIGNED BY	CHECKED BY
DARAXAY PHENGDARA	GETACHEW ESHETE
REVISED BY	DATE REVISED

EXISTING UTILITIES HAVE NOT BEEN PLOTTED

**EROSION CONTROL PLAN**  
SCALE: 1" = 50'  
**EC-1**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	79	45.6/52.8	15	26

Hassan M. Taaha 03/03/11  
 REGISTERED CIVIL ENGINEER DATE  
 7-11-11  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 HASSAN M. TAHA  
 No. 60130  
 Exp. 06/30/12  
 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.

### STATIONARY CONSTRUCTION AREA SIGNS

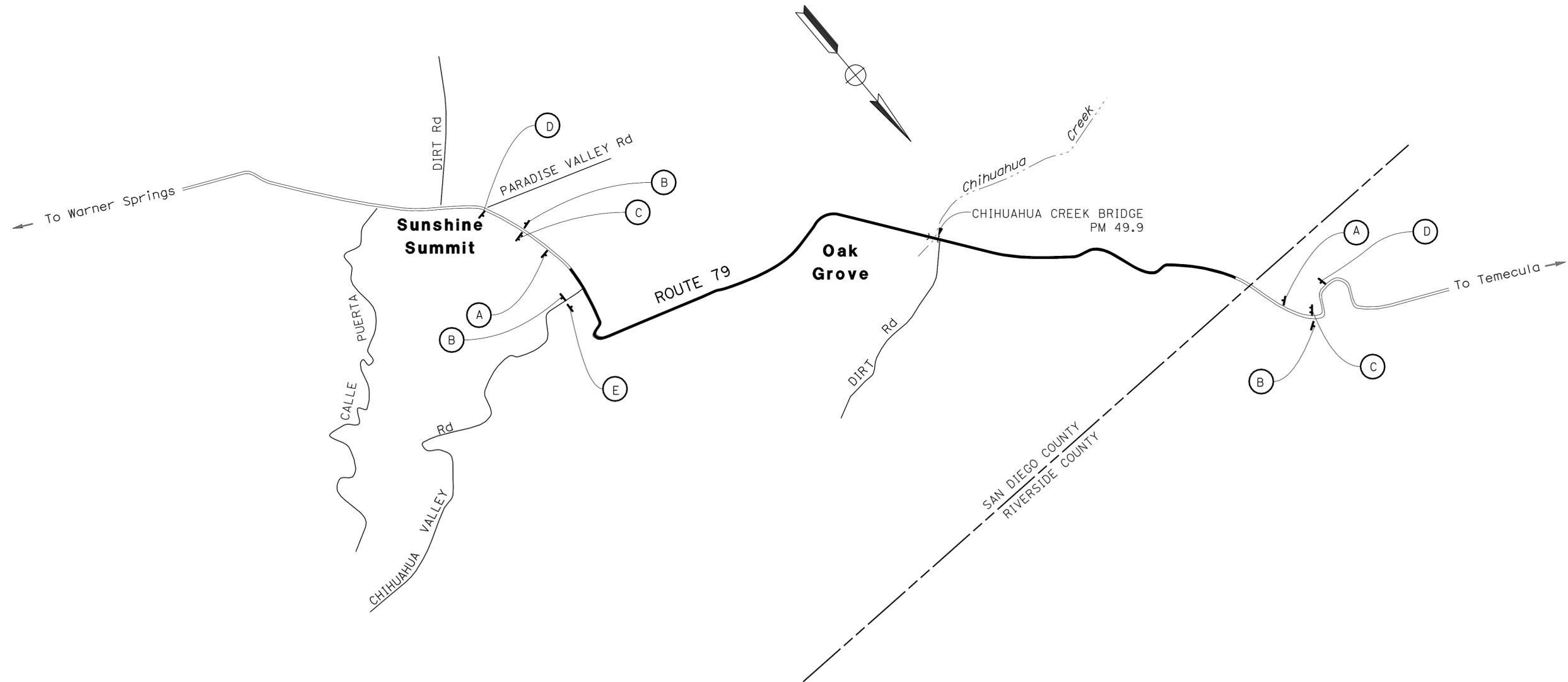
SIGN No.	SIGN CODE	SIGN MESSAGE	PANEL SIZE	No. OF POST AND SIZE	No. OF SIGNS
(A)	W20-1	ROAD WORK AHEAD	48" x 48"	1 - 6" x 6"	2
(B)	C14(CA)	END ROAD WORK	48" x 24"	1 - 4" x 4"	4
(C)	C40(CA)	TRAFFIC FINES ARE DOUBLED IN CONSTRUCTION ZONES	72" x 36"	2 - 4" x 6"	2
(D)	G20-1	ROAD WORK NEXT 8 MILES	36" x 18"	1 - 4" x 6"	2
(E)	W20-1	ROAD WORK AHEAD	36" x 36"	1 - 4" x 6"	2

#### NOTES:

- EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.
- FOR ADDITIONAL SIGN SPECIFICATIONS REFER TO CALIFORNIA MUTCD (MANUAL ON UNIFORMED TRAFFIC CONTROL DEVICES). (CA) INDICATES STANDARD CALIFORNIA SIGN.

#### LEGEND:

- CONSTRUCTION AREA SIGN ( ONE POST/ TWO POST)
- CONSTRUCTION AREA SIGNS No.



## CONSTRUCTION AREA SIGNS

NO SCALE CS-1

EXISTING UTILITIES HAVE NOT BEEN PLOTTED.  
THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	79	45.6/52.8	16	26

<i>Hassan Cohe</i>	03/03/11
REGISTERED CIVIL ENGINEER	DATE
7-11-11	
PLANS APPROVAL DATE	

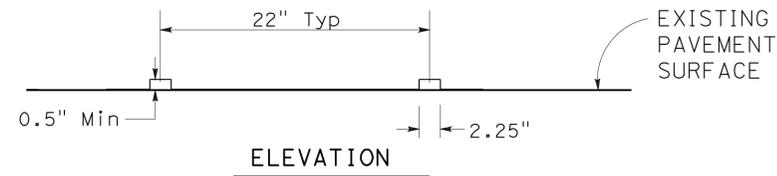
  

REGISTERED PROFESSIONAL ENGINEER
HASSAN M. TAHA
No. 60130
Exp. 06/30/12
CIVIL

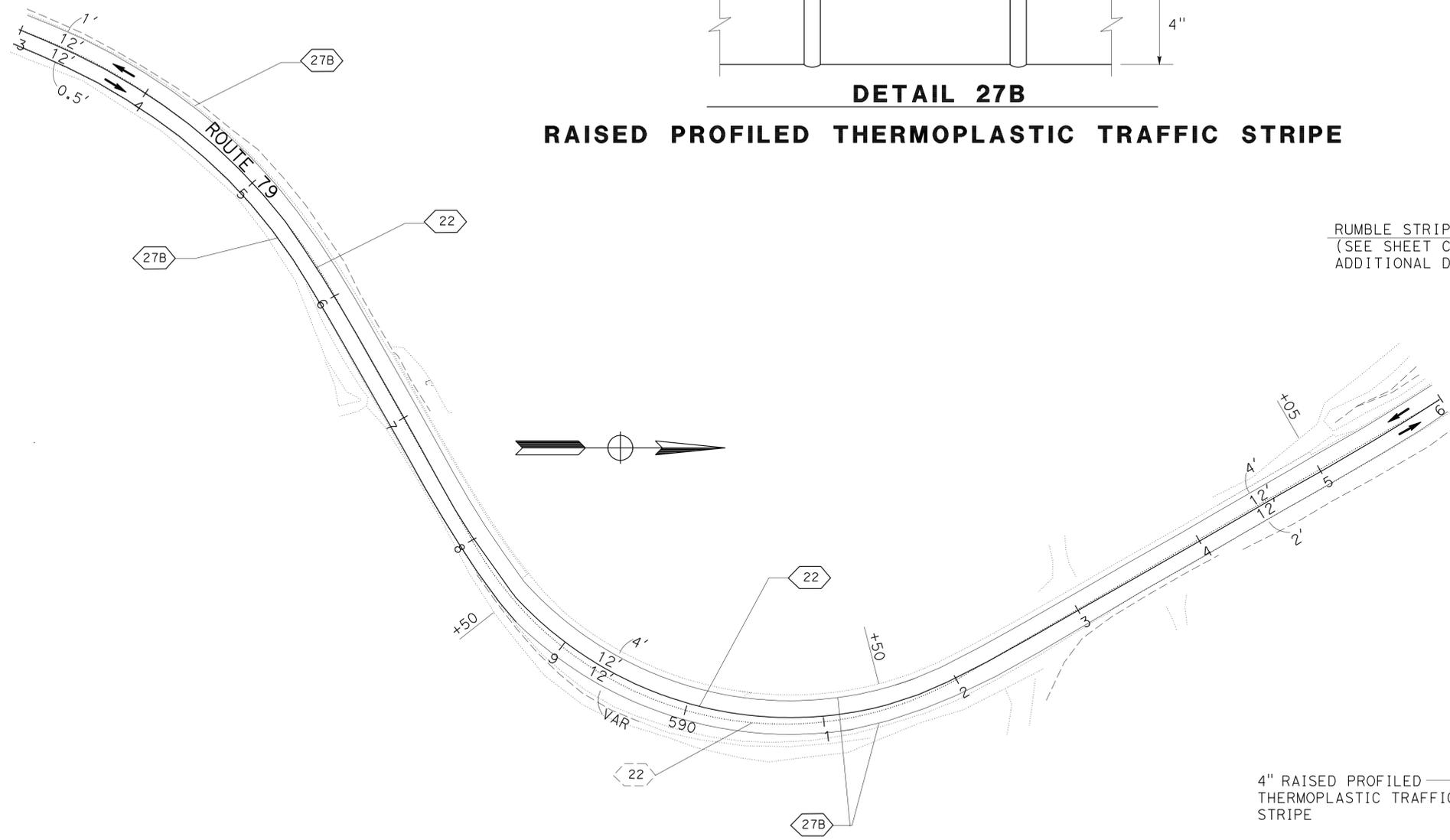
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

**LEGEND:**

- ← TRAFFIC DIRECTION
- XX TRAFFIC STRIPE DETAIL
- XX REMOVE TRAFFIC STRIPE DETAIL



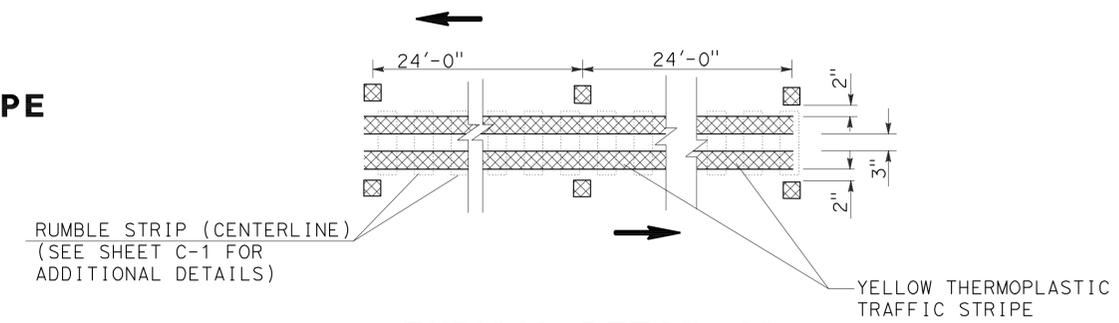
**RAISED PROFILED THERMOPLASTIC TRAFFIC STRIPE**



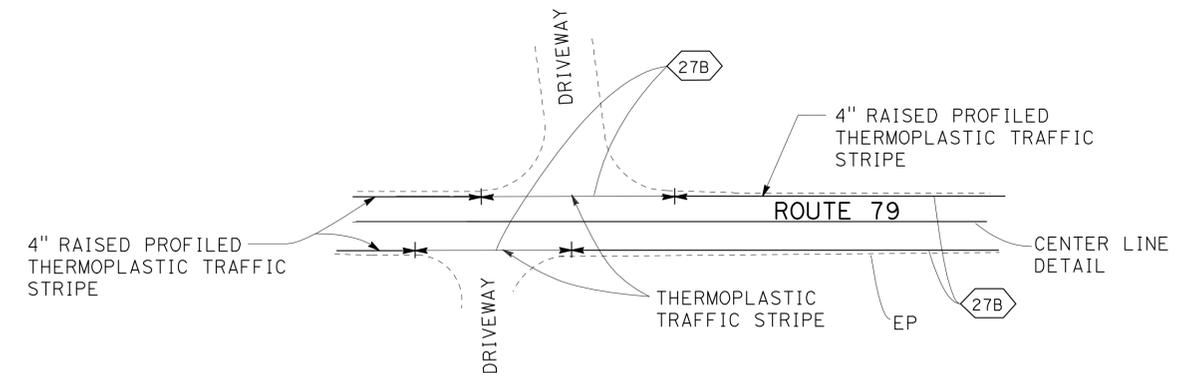
**TYPICAL DETAIL OF STRIPING INSTALLATION AT WIDENING LOCATION**

Sta 583+00 TO Sta 596+00

SEE PDQ-1 SHEET FOR PAVEMENT DELINEATION QUANTITIES AND LOCATIONS



SEE STANDARD PLANS FOR ADDITIONAL DETAILS



**TYPICAL DETAIL 27B INSTALLATION ALONG DRIVEWAYS**

✱ DENOTE : LIMITS OF THERMOPLASTIC TRAFFIC STRIPE

**PAVEMENT DELINEATION DETAILS**

NO SCALE

**PDD-1**

EXISTING UTILITIES HAVE NOT BEEN PLOTTED.  
THIS PLAN ACCURATE FOR PAVEMENT DELINEATION ONLY



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** 06-TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: MOHAMMED OATAMI  
DESIGNED BY: MUNIR ASSAF  
CHECKED BY: HASSAN TAHA

REVISOR: MUNIR ASSAF  
DATE: 7/2/2010

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	79	45.6/52.8	17	26

Hassan M. Taaha 03/03/11  
 REGISTERED CIVIL ENGINEER DATE  
 7-11-11  
 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.

### PAVEMENT DELINEATION QUANTITIES

LOCATION PM TO PM	PASSING ZONE DIRECTION	DIRECTION NB/SB	DETAIL No.	PAVEMENT MARKER (RETROREFLECTIVE)		4" THERMOPLASTIC TRAFFIC STRIPE LF	4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 36-12) LF	RAISED PROFILED THERMOPLASTIC TRAFFIC STRIPE	REMOVE PAVEMENT MARKER EA	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE) LF	REMOVE PAINTED TRAFFIC STRIPE LF	THERMOPLASTIC PAVEMENT MARKING		
				TYPE D	TYPE H							DESCRIPTION	SQFT	
				EA	EA									
PM 45.60 TO PM 45.76		NB/SB	22	74		1,690			74	1,690				
PM 45.77 TO PM 48.42		NB/SB	22	1168		27,984			1168	27,984				
PM 48.42 TO PM 48.56	NB	NB	19	18	32	739	740		50	924				
PM 48.56 TO PM 48.69		NB/SB	6	15			687		15	172				
PM 48.69 TO PM 48.83	SB	SB	19	18	32	739	740		50	924				
PM 48.83 TO PM 49.09		NB/SB	22	118		2,746			118	2,746				
PM 49.10 TO PM 50.49		NB/SB	22	614		14,678			614	14,678				
PM 50.49 TO PM 50.65	NB	NB	19	20	36	845	845		56	1056				
PM 50.65 TO PM 50.74		NB/SB	6	11			476		11	119				
PM 50.74 TO PM 50.92	SB	SB	19	22	41	950	952		63	1,188				
PM 50.92 TO PM 52.80		NB/SB	22	830		19,853			830	19,853				
PM 45.60 TO PM 45.75		NB	27B					792			792			
PM 45.77 TO PM 49.09		NB	27B					17,470			17,530			
PM 49.10 TO PM 52.80		NB	27B					19,476			19,536			
PM 45.60 TO PM 49.11		SB	27B					18,473			18,533			
PM 49.12 TO PM 52.80		SB	27B					19,310			19,430			
PM 45.76 CHIHUAHUA VALLEY Rd												38' LIMIT LINE & (1) STOP	60	
PM 46.28 DRIVEWAY		NB	27B			60								
PM 50.80 DRIVEWAY		NB	27B			60								
PM 49.05 DRIVEWAY		SB	27B			60								
PM 49.12 DRIVEWAY		SB	27B			60								
PM 50.64 DRIVEWAY		SB	27B			60								
SUBTOTAL				2908	141	70,524	4440	75,521	3049	71,334	75,821		60	
TOTAL						3049	70,524	4440	75,521	3049	71,334	75,821		60

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** 06-TRAFFIC DESIGN  
 FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI  
 CALCULATED/DESIGNED BY: MUNIR ASSAF  
 CHECKED BY: HASSAN TAHA  
 REVISOR: MUNIR ASSAF  
 DATE REVISOR: HASSAN TAHA

## PAVEMENT DELINEATION QUANTITIES PDQ-1







Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	79	45.6/52.8	20	26

Getachew Eshete 3-30-11  
 REGISTERED CIVIL ENGINEER DATE

7-11-11  
 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.

### ROADWAY QUANTITIES

LOCATION				ROADWAY EXCAVATION	HMA (TYPE A)	PAVEMENT SAFETY EDGE (N)	CLASS 2 AGGREGATE BASE	RUMBLE STRIP (CENTERLINE)	PLACE HMA DIKE (TYPE E)	EMBANKMENT (N)
SHEET No.	DIRECTION	FROM	TO	CY	TON	TON	CY	LNMI	LF	CY
L-1	SB	588+44.00	590+34.00	102	62		59			10
L-1	SB	590+34.00	595+00.00	105	78	0.78	74			40
L-1	SB	588+44.00	590+43.22		5				175	
L-1	NB	597+00.00	599+50.00							7
		FROM PM	TO PM							
L-3	NB	47.30	47.43							17
	SB	49.89	49.91							5
		45.6	52.8					7.2		
TOTAL				207	145		133	7.2	175	

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

### EROSION CONTROL

LOCATION		
SHEET No.	LF	SQFT
EC-1	813	7697

### WATER POLLUTION CONTROL

LOCATION			
SHEET No.	DIRECTION	LF	SQYD
WPC-1	NB	40	
WPC-1	SB	765	111
TOTAL		805	111

### TEMPORARY FENCE (TYPE ESA)

SHEET No.	POST MILE	DIRECTION	LF
L-1	46.01	NB	338
	46.26	SB	1,047
L-2	46.45	NB	398
	46.59	SB	654
L-3	46.78	NB	1,006
	47.21	SB	600
	47.40	NB	731
L-4	47.37	NB	585
	47.51	SB	661
	47.97	NB	586
L-5	48.06	SB	642
	48.37	SB	1,604
	48.80	NB	358
L-6	51.15	SB	319
	51.22	SB	305
	51.31	NB	157
L-6	52.09	NB	303
	52.77	NB	216
TOTAL			10,510

## SUMMARY OF QUANTITIES

### Q-1

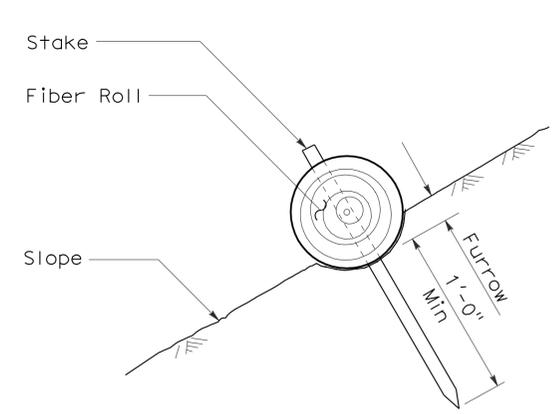
LAST REVISION: 03-29-11      DATE PLOTTED => 12-JUL-2011      TIME PLOTTED => 15:43

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	79	45.6/52.8	21	26

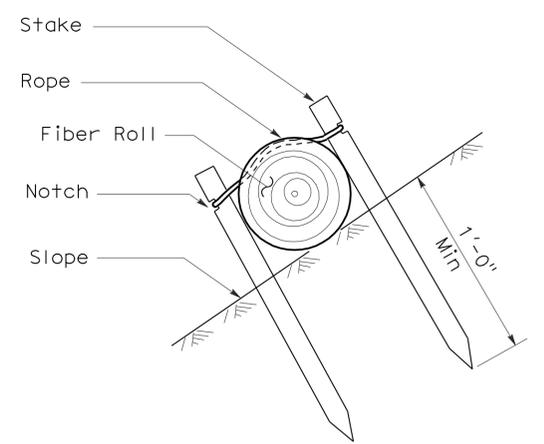
*Gregory A. Balzer*  
 LICENSED LANDSCAPE ARCHITECT  
 April 3, 2009  
 PLANS APPROVAL DATE  
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 7-11-11

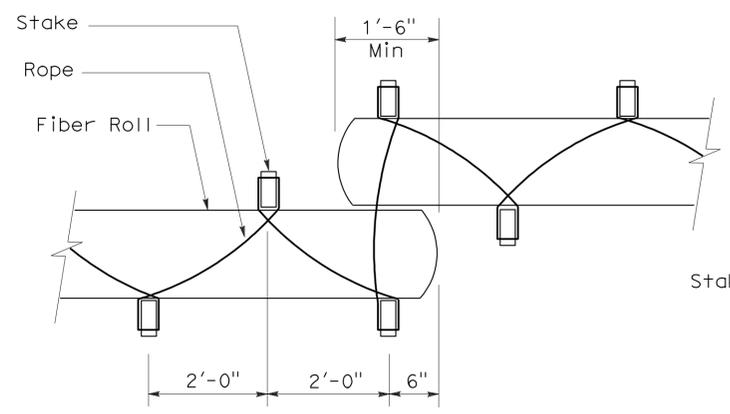
- NOTES:**
1. Fiber roll spacing varies depending upon slope inclination.
  2. Installations shown in the perspectives are for slope inclination of 10:1 and steeper.



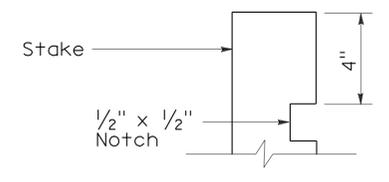
**SECTION**  
**FIBER ROLL**  
**(TYPE 1)**



**SECTION**

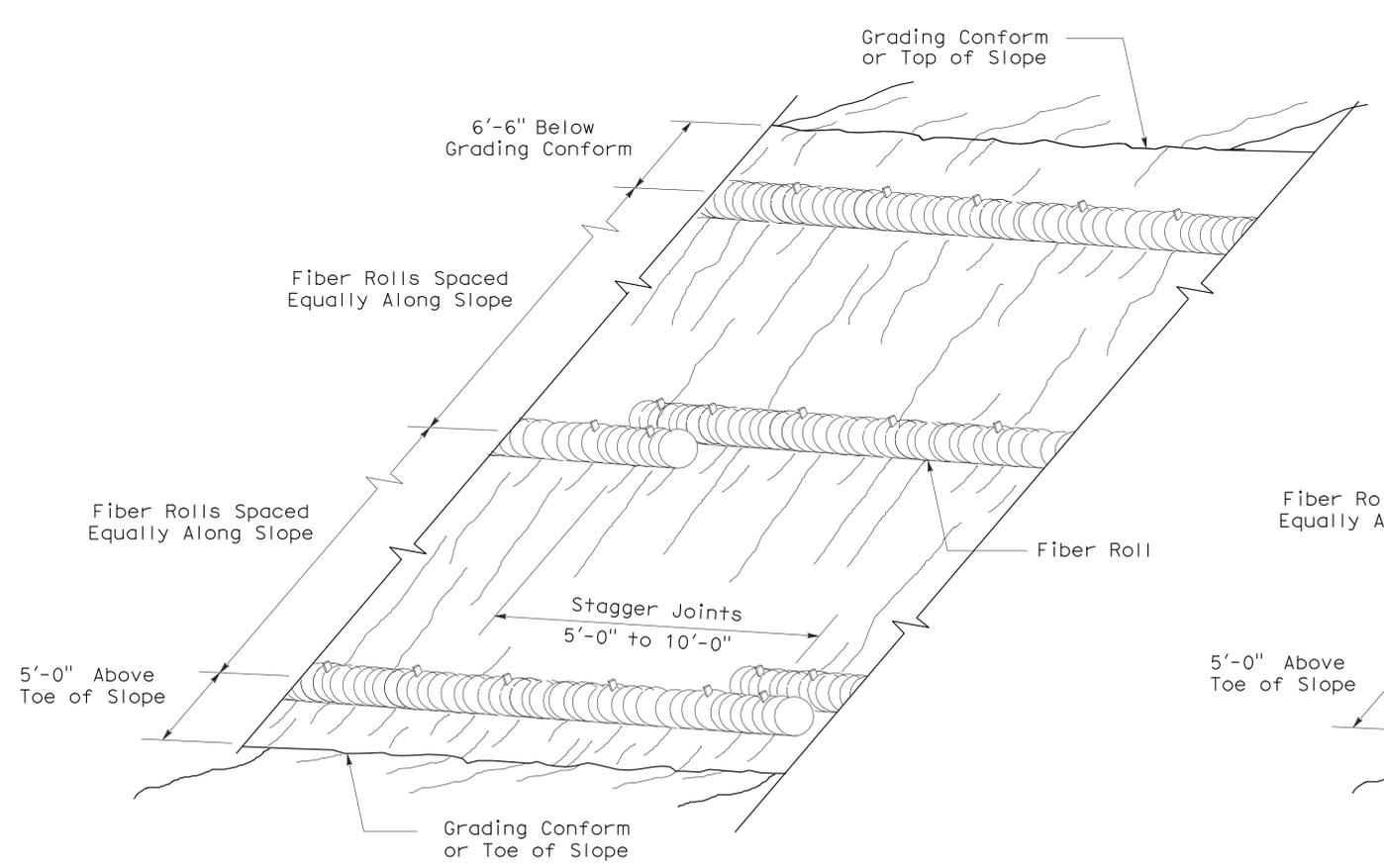


**PLAN**

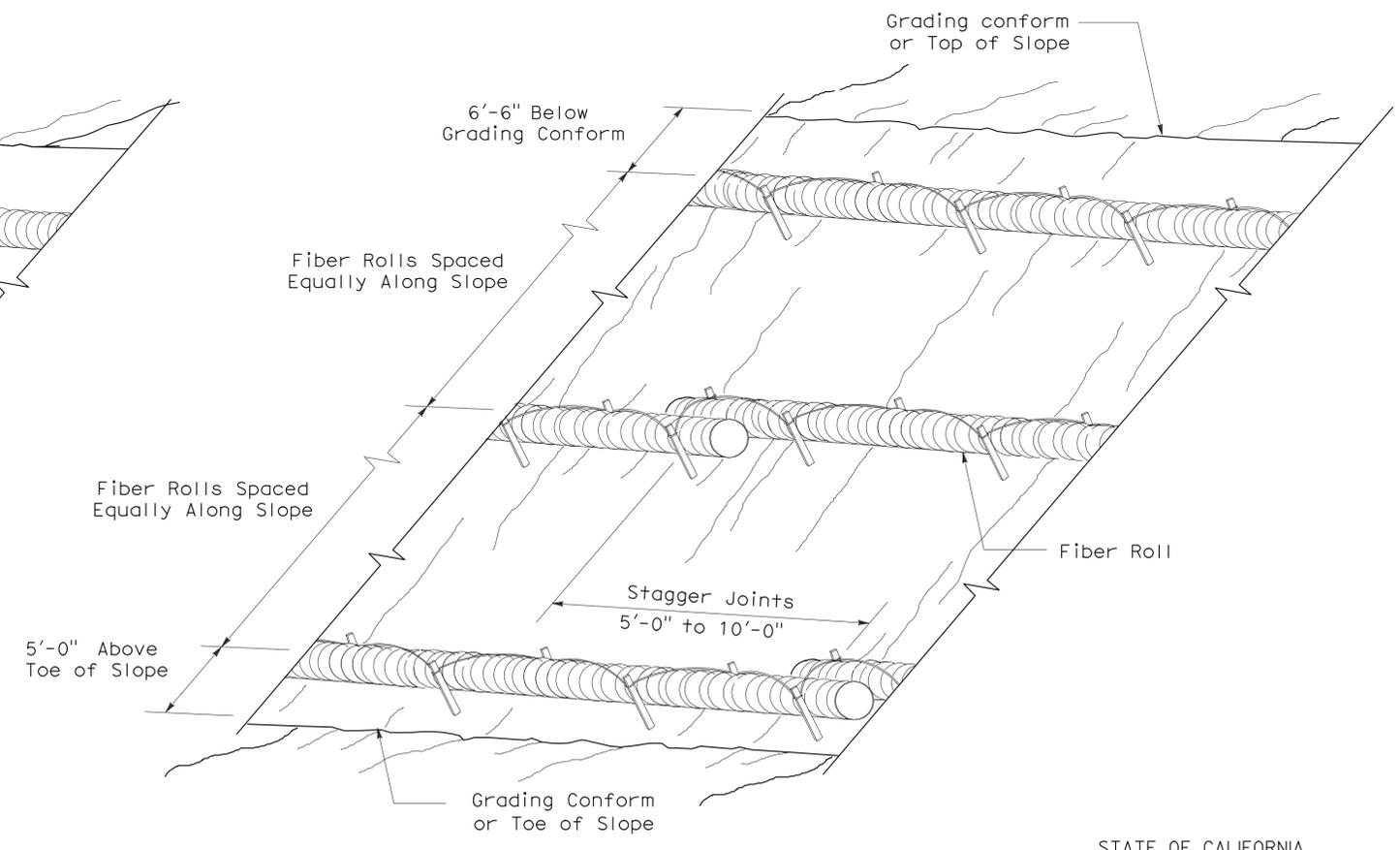


**ELEVATION**  
**STAKE NOTCH DETAIL**

**FIBER ROLL**  
**(TYPE 2)**



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



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

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**EROSION CONTROL DETAILS**  
**(FIBER ROLL)**

NO SCALE  
RNSP H51 DATED APRIL 3, 2009 SUPERSEDES NSP H51 DATED DECEMBER 1, 2006 THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

2006 REVISED NEW STANDARD PLAN RNSP H51

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	79	45.6/52.8	22	26

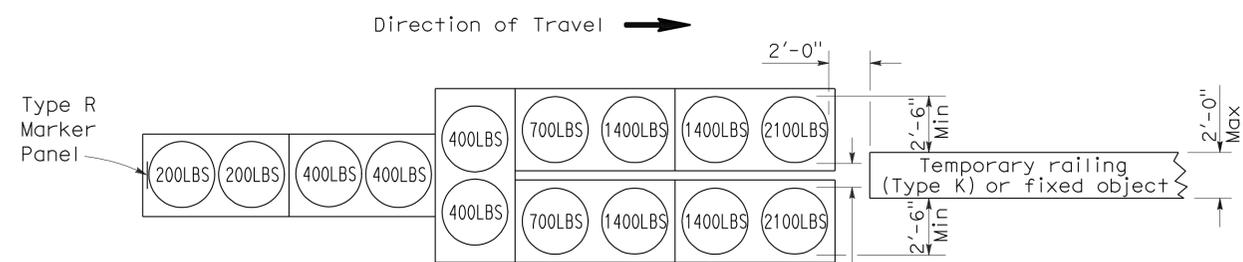
*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

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

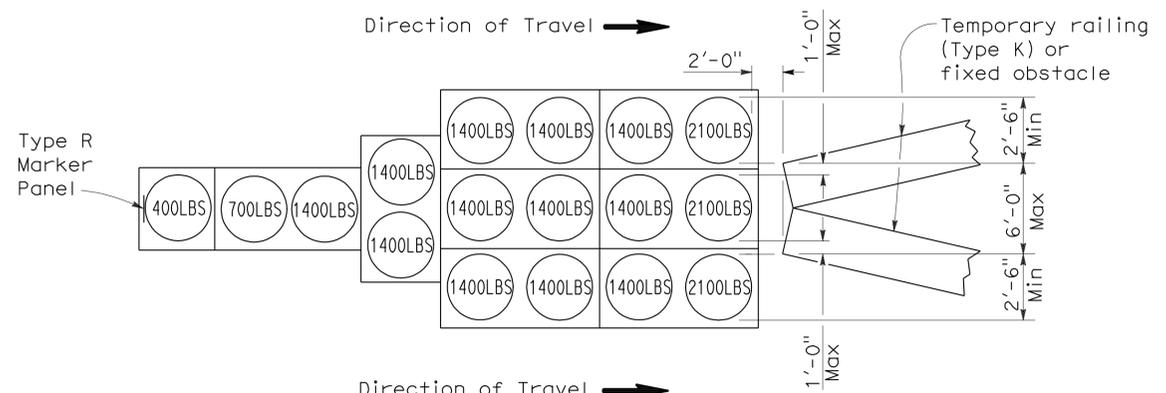
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 7-11-11



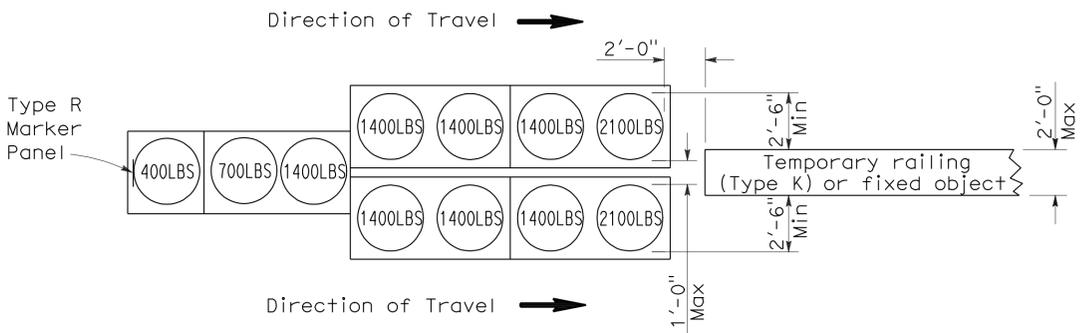
**ARRAY 'TU14'**

Approach speed 45 mph or more



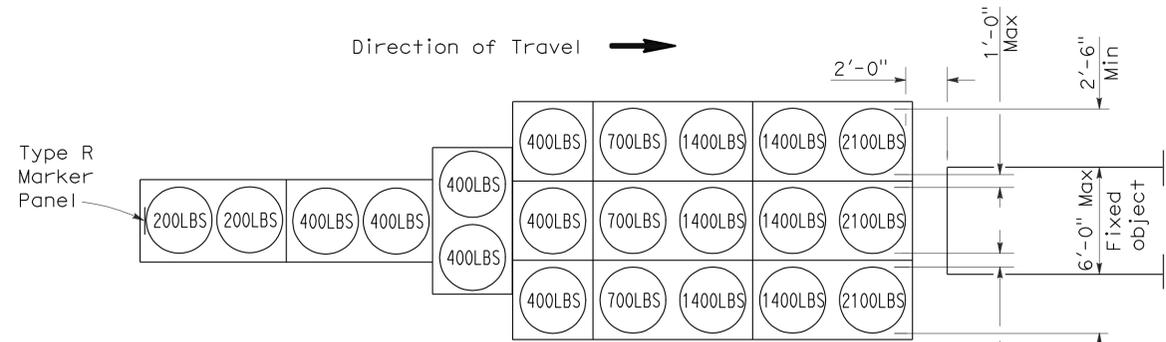
**ARRAY 'TU17'**

Approach speed less than 45 mph



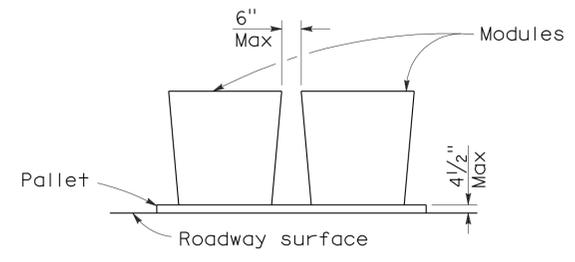
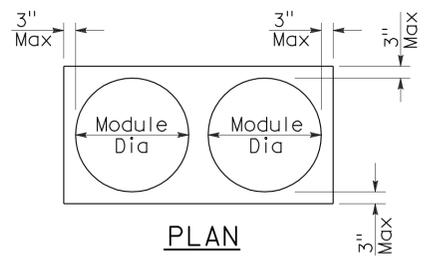
**ARRAY 'TU11'**

Approach speed less than 45 mph



**ARRAY 'TU21'**

Approach speed 45 mph or more



**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
11	SD	79	45.6/52.8	23	26

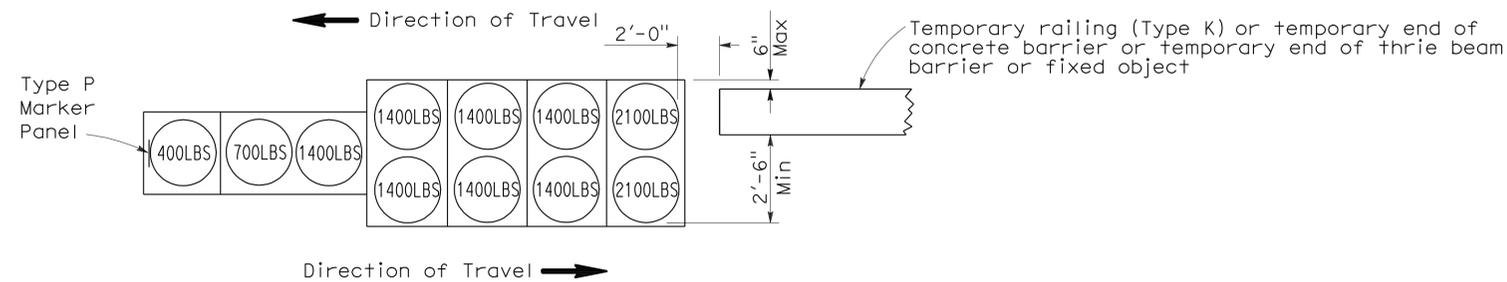
*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

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

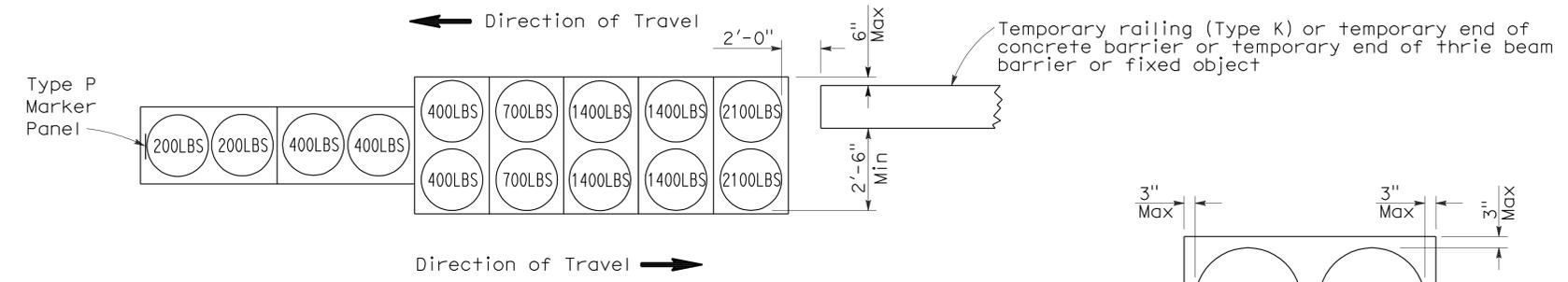
REGISTERED PROFESSIONAL ENGINEER  
Randell D. Hiatt  
No. C50200  
Exp. 6-30-09  
CIVIL  
STATE OF CALIFORNIA

To accompany plans dated 7-11-11



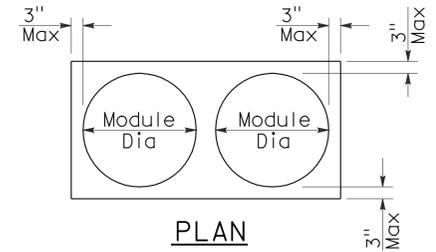
**ARRAY 'TB11'**

Approach speed less than 45 mph

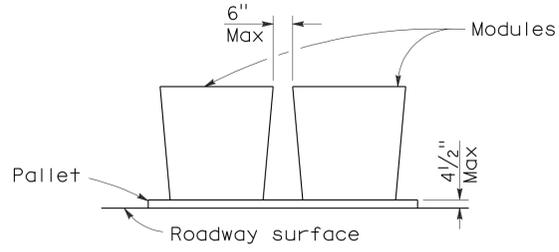


**ARRAY 'TB14'**

Approach speed 45 mph or more



PLAN



ELEVATION

**CRASH CUSHION PALLET DETAIL**

See Note 7

**NOTES:**

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

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

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

NO SCALE

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

**REVISED STANDARD PLAN RSP T1B**

2006 REVISED STANDARD PLAN RSP T1B

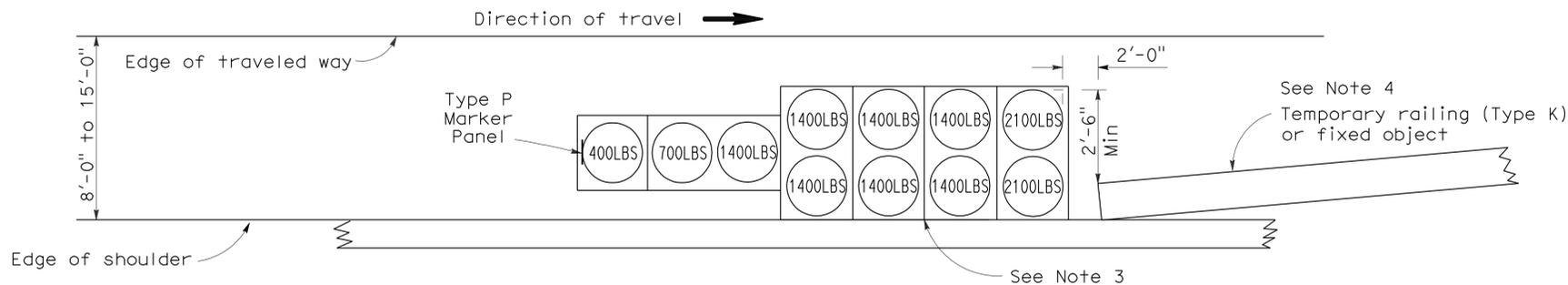
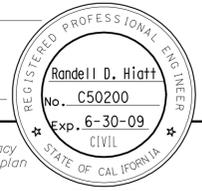
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	79	45.6/52.8	24	26

*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

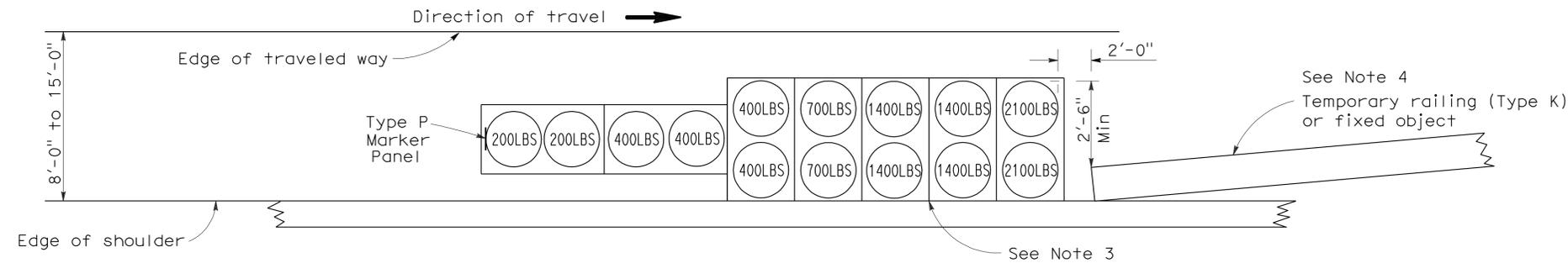
June 6, 2008  
PLANS APPROVAL DATE

*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.*

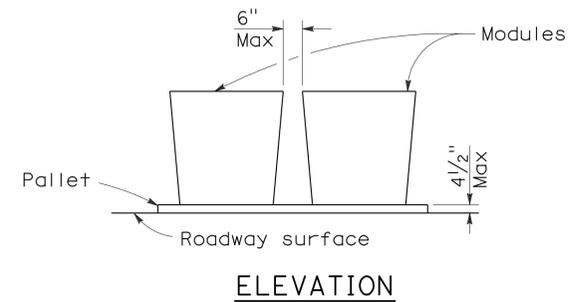
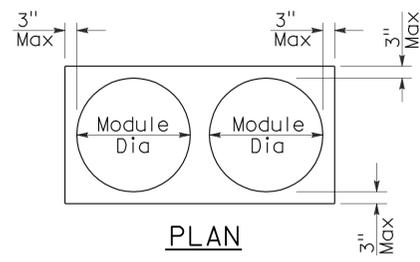
To accompany plans dated 7-11-11



**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

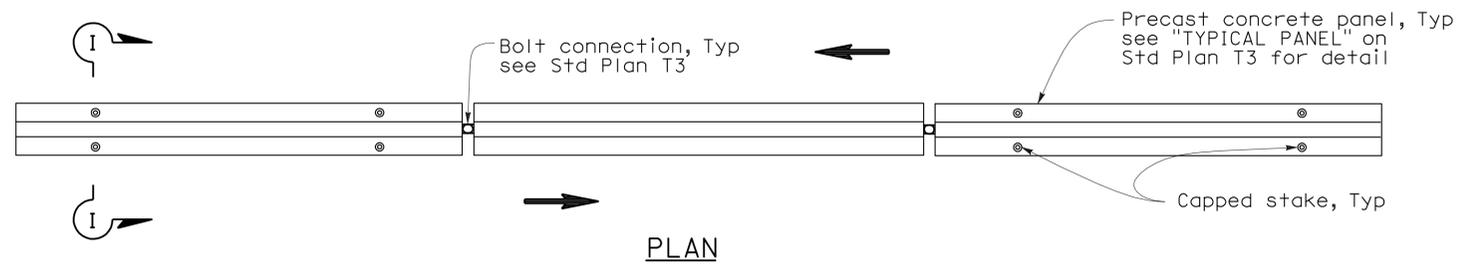
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	79	45.6/52.8	25	26

*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

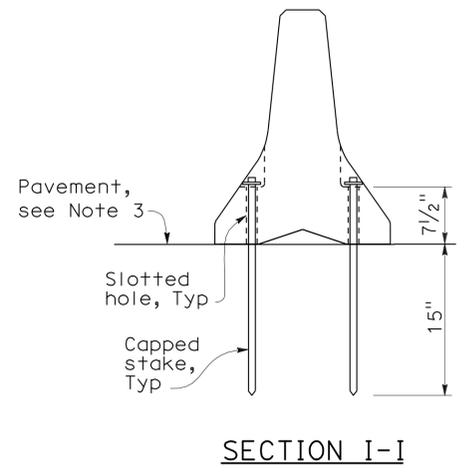
May 20, 2011  
PLANS APPROVAL DATE

*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 7-11-11

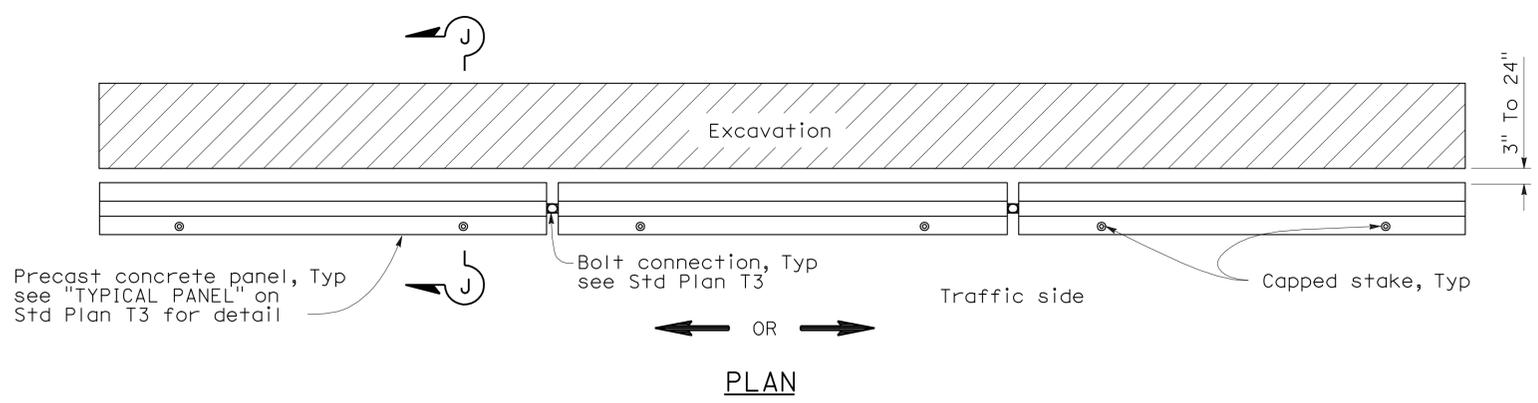


**RAILING STAKING CONFIGURATION FOR TWO-WAY TRAFFIC**  
See Note 1

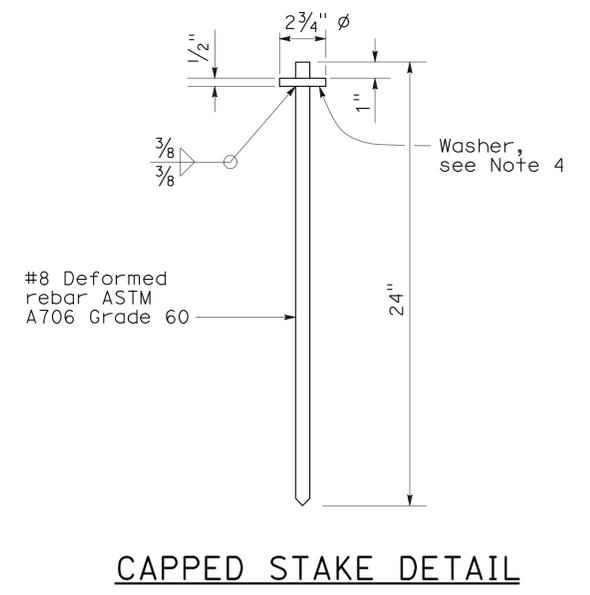
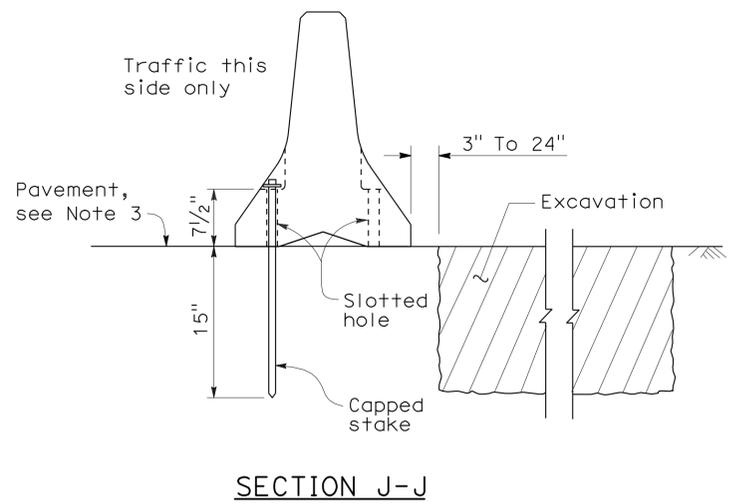


**NOTES:**

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

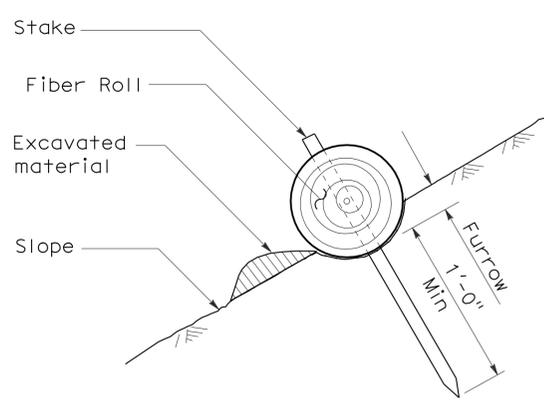
NSP T3A DATED MAY 20, 2011 SUPPLEMENTS  
THE STANDARD PLANS BOOK DATED MAY 2006.

2006 NEW STANDARD PLAN NSP T3A

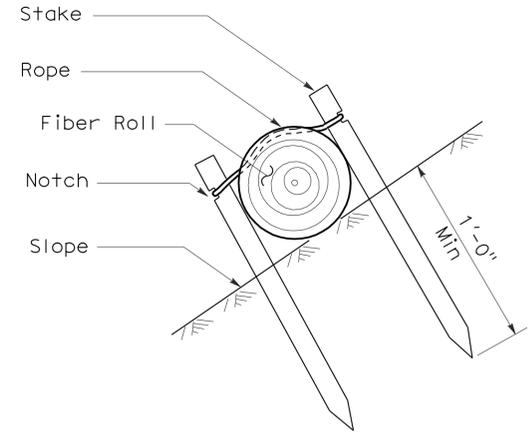
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	79	45.6/52.8	26	26

*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.

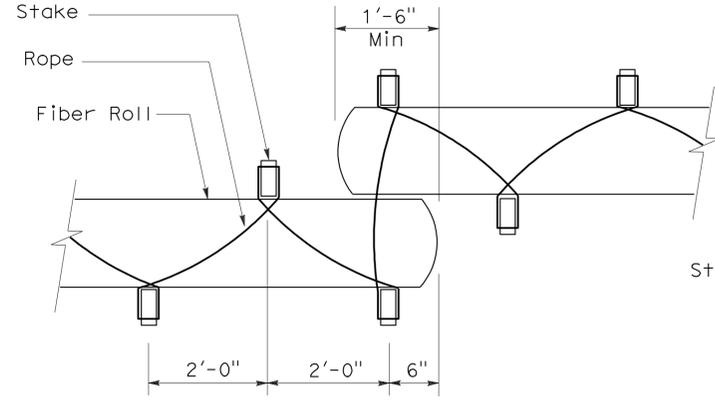
To accompany plans dated 7-11-11



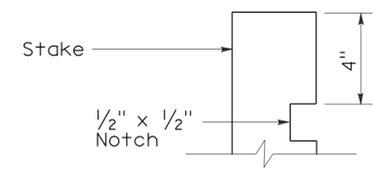
**SECTION**  
**TEMPORARY FIBER ROLL**  
**(TYPE 1)**



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

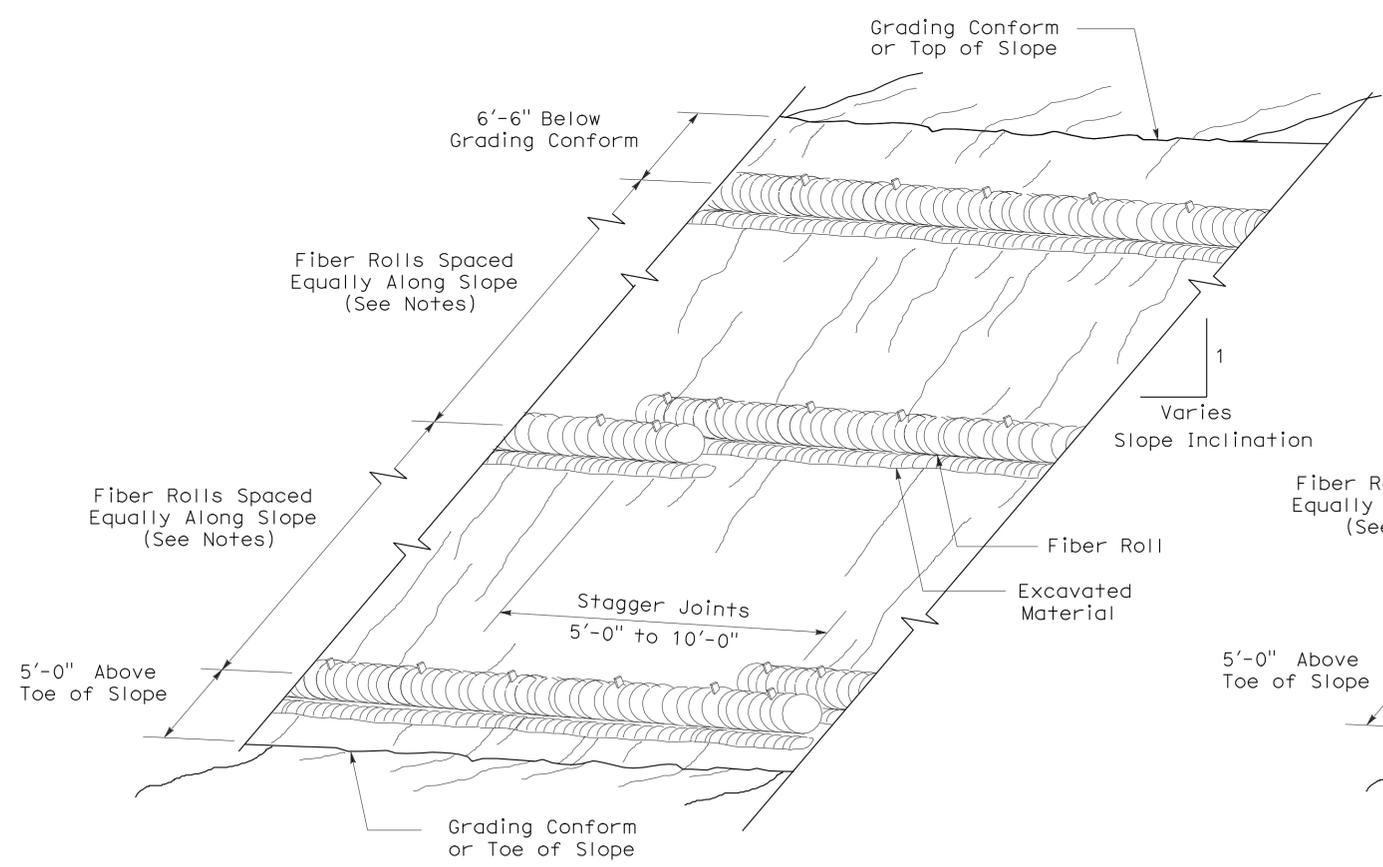


**PLAN**

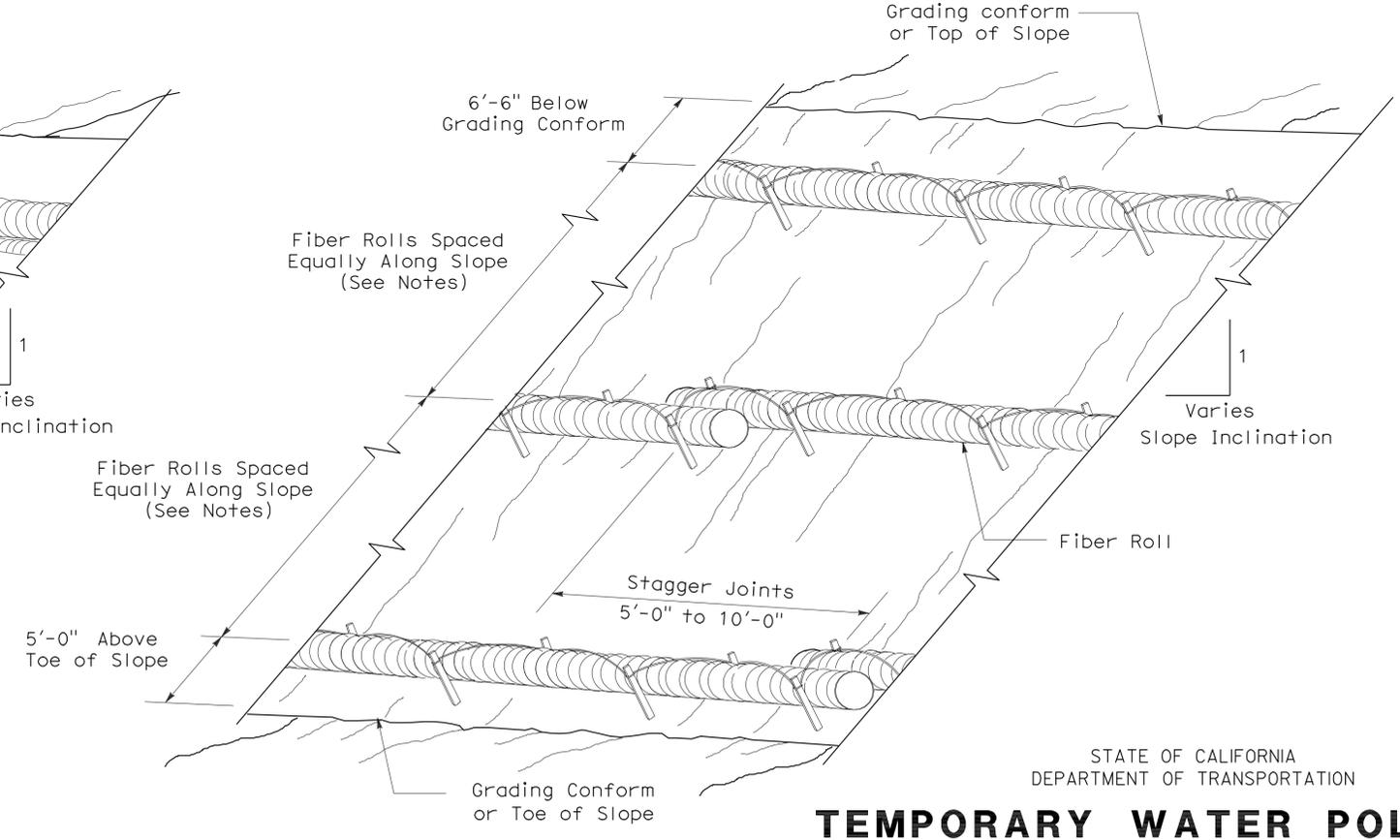


**ELEVATION**  
**STAKE NOTCH DETAIL**

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



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



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

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

**TEMPORARY WATER POLLUTION CONTROL DETAILS**  
**(TEMPORARY FIBER ROLL)**

NO SCALE

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

**REVISED STANDARD PLAN RSP T56**

2006 REVISED STANDARD PLAN RSP T56