

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 RIVERSIDE COUNTY**  
**NEAR BLYTHE FROM 0.2 MILE**  
**SOUTH OF ROUTE 10/95 SEPARATION**  
**TO 0.7 MILE SOUTH OF LYE ROAD**

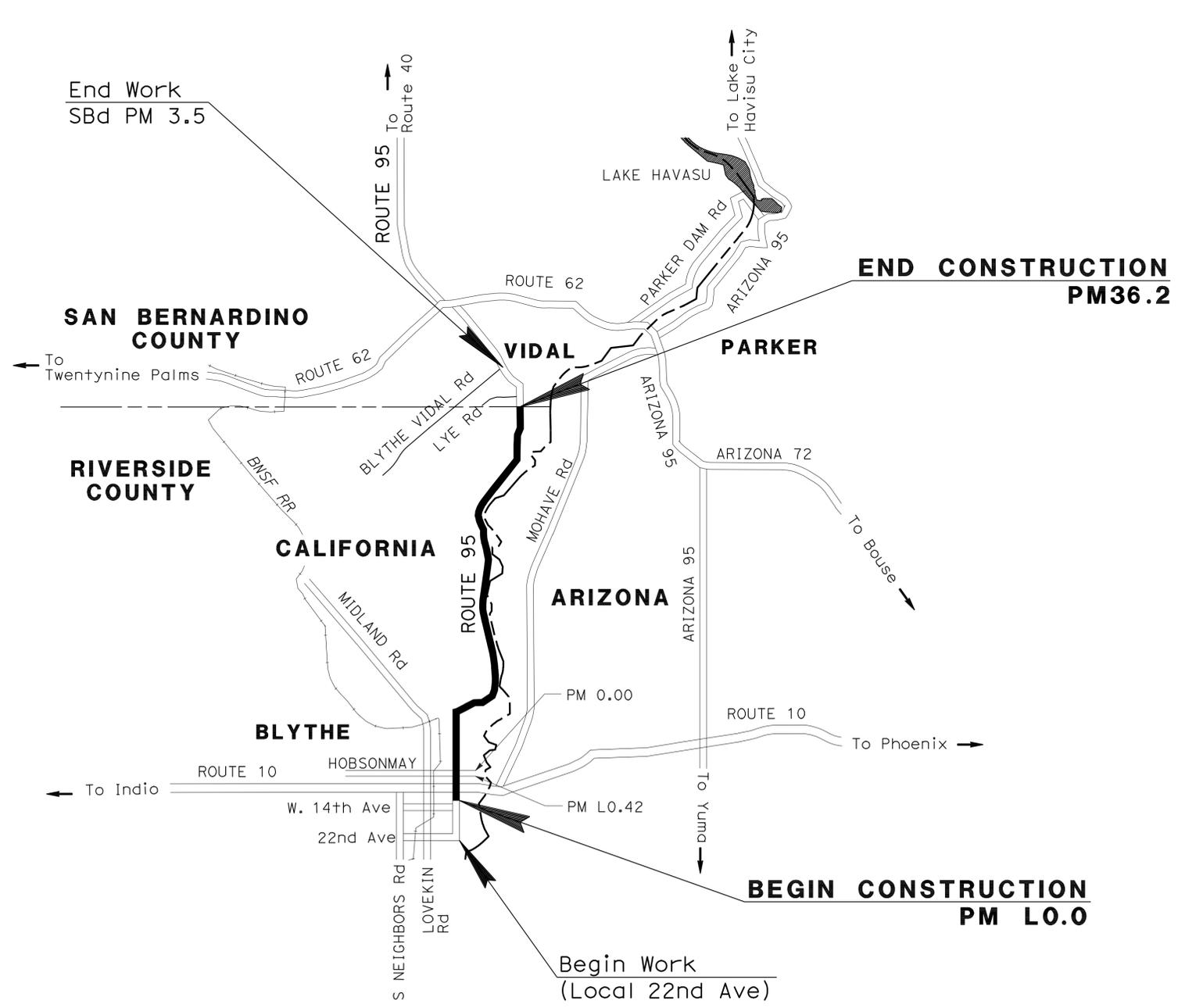
TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	95	L0.0/36.2	1	18





LOCATION MAP



PROJECT MANAGER CATALINO PINING	DESIGN ENGINEER WILLIAM AMBROSE
------------------------------------	------------------------------------

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

NO SCALE



USERNAME => s102458  
 DGN FILE => 80p790ab001.dgn

*William Ambrose* 1-8-13  
 PROJECT ENGINEER DATE  
 REGISTERED CIVIL ENGINEER

**WILLIAM AMBROSE**  
 No. C72098  
 Exp. 6/30/14  
 CIVIL  
 STATE OF CALIFORNIA

January 14, 2013  
 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>08-0P7904</b>
PROJECT ID	<b>0800020031</b>

DATE PLOTTED => 08-JAN-2013 TIME PLOTTED => 14:57

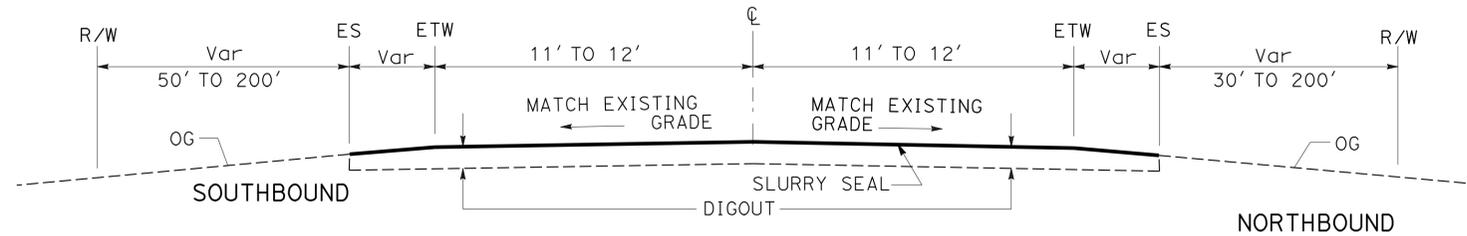
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	95	L0.0/36.2	2	18
			1-8-13	DATE	
REGISTERED CIVIL ENGINEER			WILLIAM AMBROSE No. C72098 Exp. 6/30/14 CIVIL		
1-14-13 PLANS APPROVAL DATE			THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.		

**NOTES:**

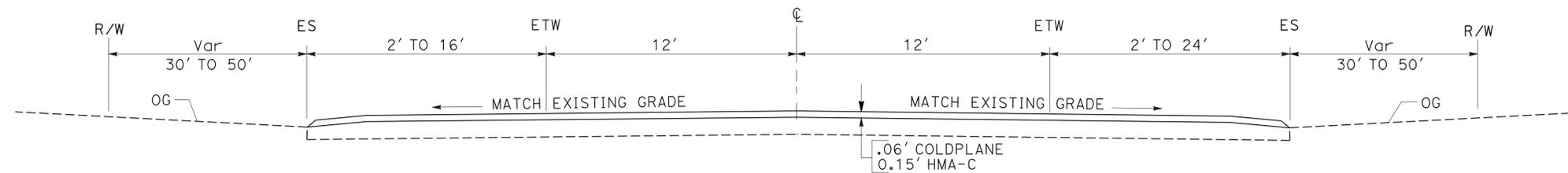
1. DIMENSIONS OF THE STRUCTURAL SECTIONS ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. SUPERELEVATIONS AS SHOWN OR AS DIRECTED BY THE ENGINEER.
3. FOR PAVEMENT CONFORM, SEE CONSTRUCTION DETAIL SHEETS.
4. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
5. FOR REPLACE AC SURFACING LOCATIONS AND DIMENSIONS SEE SHEET Q-1.

**LEGEND:**

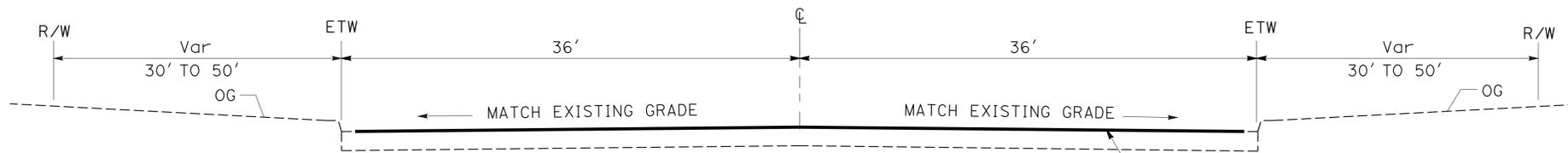
- HMA-C HOT MIX ASPHALT (TYPE C)
- SLURRY SEAL



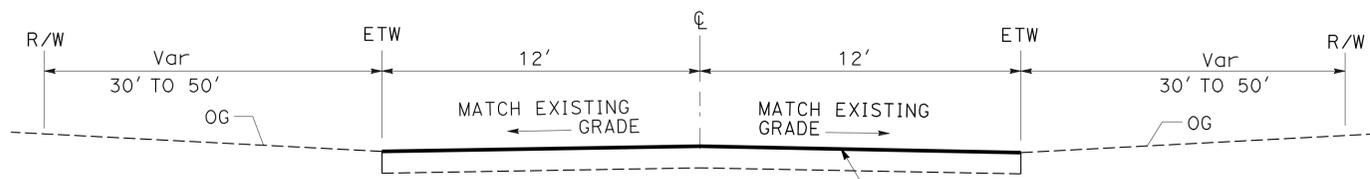
**ROUTE 95**  
PM 0.6 TO 36.2



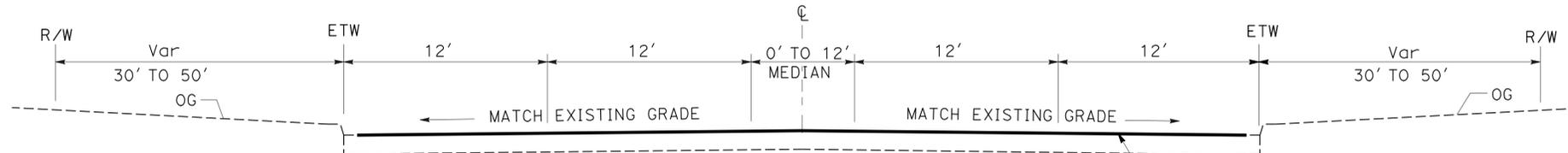
**ROUTE 95**  
PM 0.0 TO 0.60



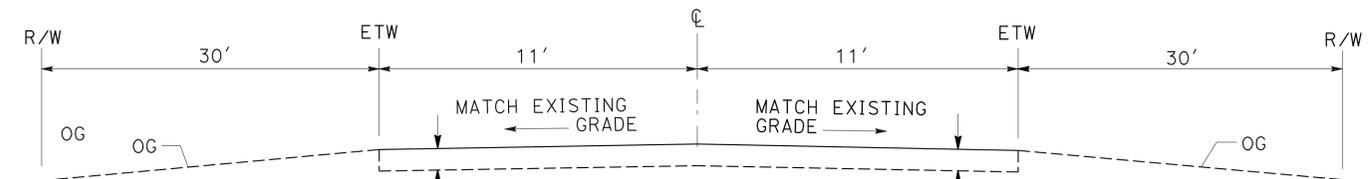
**ROUTE 95**  
PM L0.35 TO L0.42



**ROUTE 95**  
PM L0.2 TO L0.35



**ROUTE 95**  
PM L0.1 TO L0.2



**ROUTE 95**  
PM L0.0 TO L0.1

**TYPICAL CROSS SECTIONS**  
NO SCALE  
**X-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR BY
<b>Caltrans</b> MAINTENANCE ENGINEERING	KEVIN CHEN	WILLIAM AMBROSE	WILLIAM AMBROSE
		KEVIN CHEN	DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	95	L0.0/36.2	3	18

<i>William Ambrose</i>	1-8-13
REGISTERED CIVIL ENGINEER	DATE
1-14-13	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER
WILLIAM AMBROSE
No. C72098
Exp. 6/30/14
CIVIL

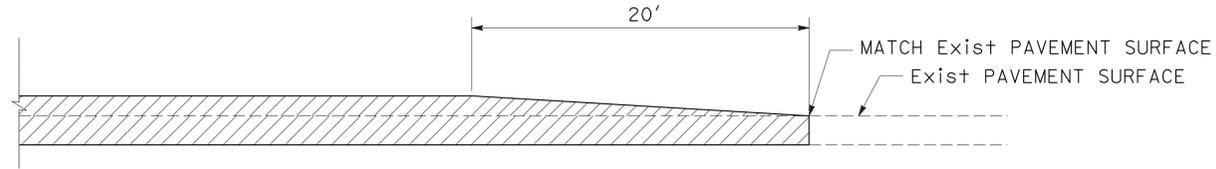
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**NOTE:**

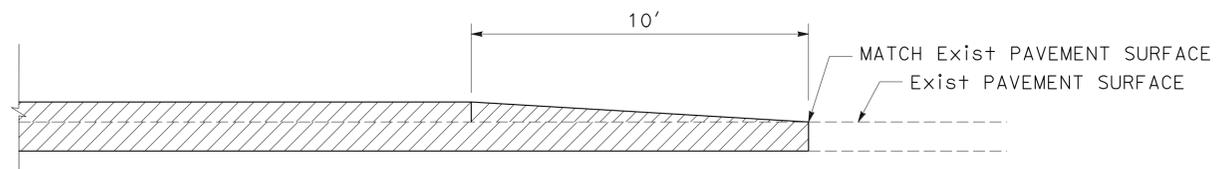
FOR REPLACE ASPHALT CONCRETE SURFACING LOCATIONS AND DIMENSIONS SEE SHEET Q-1

**LEGEND:**

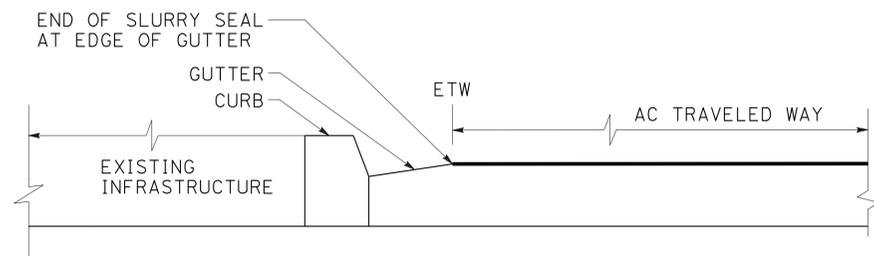
-  COLD PLANE 0.06' AND PLACE 0.15' HMA-C WITH 1/2" GRADING
-  REPLACE ASPHALT CONCRETE SURFACING (HMA-C WITH 1 INCH GRADING)
-  SLURRY SEAL



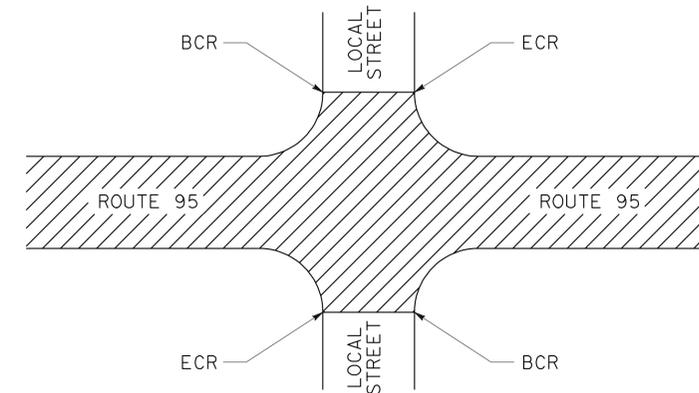
**LONGITUDINAL TAPER  
BEGIN/END CONSTRUCTION**



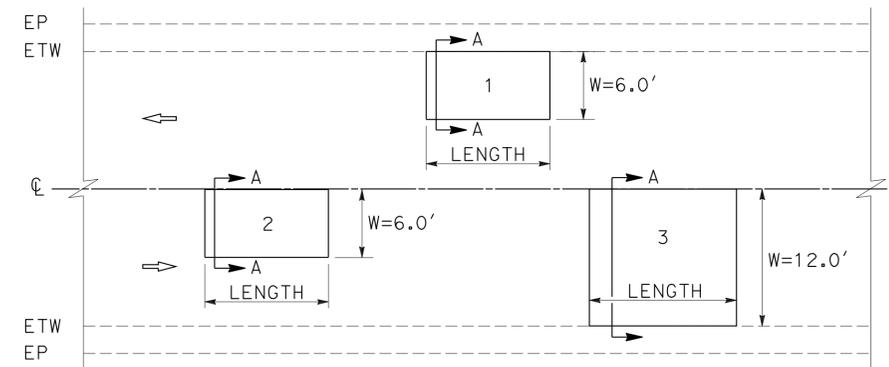
**TRANSVERSE TAPER  
AT INTERSECTION**



**SLURRY SEAL  
DETAIL AT CURB**

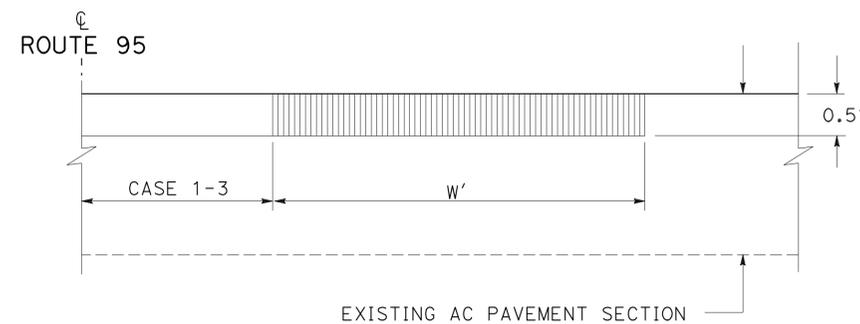


**LIMIT OF WORK AT INTERSECTION**



**TYPICAL REPLACE ASPHALT SURFACING LOCATIONS**

- CASE 1: RIGHT WHEEL TRACK
- CASE 2: LEFT WHEEL TRACK
- CASE 3: ENTIRE LANE



**SECTION A-A**

**CONSTRUCTION DETAILS**

NO SCALE

**C-1**

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

FUNCTIONAL SUPERVISOR  
KEVIN CHEN

DESIGNED BY  
WILLIAM AMBROSE

CHECKED BY  
KEVIN CHEN

REVISOR  
WILLIAM AMBROSE

DATE  
1-8-13

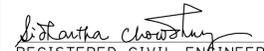


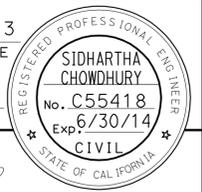
**NEW RECESSED MARKER LOCATIONS**

POST MILE RANGE	STRIPING DETAIL No.	PAVEMENT MARKER (RETROREFLECTIVE - RECESSED)	
		TYPE D (EA)	TYPE H (EA)
6.54/6.65	22	28	
6.75/6.84	22	20	
10.54/10.66	19	6	12
14.88/14.92	6	5	
15.15/15.25	6	10	
15.87/15.93	6	6	
16.36/16.44	19	4	8
16.58/16.62	6	5	
17.80/17.88	22	34	
17.88/17.96	19	8	16
17.99/18.01	19	2	4
18.74/19.06	22	18	36
	22	33	
19.05/19.15	22	20	
19.45/19.55	22	20	
20.1/20.22	22	24	
21.35/21.45	22	20	
21.55/21.85	22	40	
22.0/22.13	22	26	
22.33/22.40	22	16	
22.65/22.75	22	20	
24.05/24.15	22	20	
24.32/24.48	22	32	
24.78/24.82	22	10	
24.94/25.06	22	24	
25.24/25.36	22	24	
25.53/25.67	22	28	
25.88/25.92	22	10	
26.88/26.92	22	10	
27.00/27.10	22	20	
27.37/27.43	22	14	
27.95/28.05	22	20	
28.25/28.35	22	20	
28.87/28.93	22	12	
28.97/29.03	22	12	
29.20/29.30	22	20	
29.55/29.65	22	20	
29.95/30.05	22	20	
31.82/32.00	6	20	
32.56/32.62	22	12	
32.70/32.84	22	28	
33.15/33.23	22	16	
33.36/33.56	22	38	
33.78/33.82	22	10	
34.56/34.62	19	6	12
35.21/35.30	6	10	
35.36/35.44	19	4	8
35.54/35.76	22	48	
36.00/36.20	6	22	
SUB-TOTAL		895	96
TOTAL		991	

**NOTES:**

1. PAVEMENT MARKERS SHALL BE PLACED BEFORE SPRAYABLE THERMOPLASTIC STRIPE IS APPLIED.
2. CONTRACTOR SHALL MAINTAIN THE EXISTING STRIPING PATTERN DURING RE-STRIPING.
3. THE POST MILE RANGE FOR NEW RECESSED PAVEMENT MARKERS SHOWN ON THE DRAWING ARE APPROXIMATE. EXACT RANGE SHALL BE DETERMINED DURING CONSTRUCTION.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	95	L0.0/36.2	5	18
			1-8-13	DATE	
REGISTERED CIVIL ENGINEER			No. C55418		
1-14-13			Exp. 6/30/14		
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>					



**PAVEMENT DELINEATION QUANTITIES**

PM	PAVEMENT REHABILITATION TYPE	STRIPING DETAIL No.	THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)			REMOVE PAVEMENT MARKER			PAVEMENT MARKER (RETROREFLECTIVE)		
			WHITE 4" (FT)	YELLOW 4" (FT)	WHITE 8" (FT)	TYPE G EA	TYPE D EA	TYPE H EA	TYPE G EA	TYPE D EA	TYPE H EA
			0.0/0.60	SEAL COAT/COLDPLANE	5, 6, 12, 22, 27B, 28, 38A	1270	1713	300	27	13	27
0.60/6.5	SEAL COAT	6, 12, 19, 22, 27B, 28, 38A	844	19971	260	18	416	18	416		
6.50/11.0	SEAL COAT	6, 19, 22, 27B	47520				51, 57, 1944		18, 50, 100	100	
11.0/22.50	SEAL COAT	6, 19, 22, 27B	121440				404, 172, 2877	344	139, 278	278	
22.50/27.0	SEAL COAT	6, 19, 22, 27B	47520				60, 50, 1545	100	60, 50, 1341	100	
27.0/36.0	SEAL COAT	6, 19, 22, 27B	95040				152, 202, 2443	404	98, 191, 2147	382	
SUB-TOTAL			383330	192725	560	45	10847	1246	45	9958	1144
TOTAL			576615			12138			11147		

**PAVEMENT DELINEATION QUANTITIES**

LOCATION	DESCRIPTION	REMOVE THERMOPLASTIC PAVEMENT MARKING			THERMOPLASTIC PAVEMENT MARKING		
		EACH	LENGTH FT	AREA SQFT	EACH	LENGTH FT	AREA SQFT
BETWEEN PM 0.10/6.5	12" CROSSWALK	—	41	41	—	41	41
	STOP AHEAD	2	—	106	2	—	106
	STOP	4	—	88	4	—	88
	TYPE IV (L) ARROW	1	—	15	1	—	15
TOTAL				250			250

**PAVEMENT DELINEATION QUANTITIES PDQ-1**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	95	L0.0/36.2	6	18

*William Ambrose* 1-8-13  
 REGISTERED CIVIL ENGINEER DATE  
 1-14-13  
 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.

### REPLACE ASPHALT CONCRETE SURFACING

LOCATION			DIMENSIONS (N)	VOLUME
POST MILE (**)	DIRECTION	WHEEL TRACK	L' x W' x D'	CY
L0.0	NB	FULL LANE	528 x 11 x .5	108
L0.0	SB	FULL LANE	528 x 11 x .5	108
0.70	NB	FULL LANE	60 x 12 x .5	13
1.20	SB	FULL LANE	120 x 12 x .5	27
2.80	NB	FULL LANE	60 x 12 x .5	13
3.10	NB	RIGHT	60 x 6 x .5	7
3.25	NB	FULL LANE	25 x 12 x .5	6
3.20	SB	FULL LANE	25 x 12 x .5	6
3.20	NB	FULL LANE	60 x 12 x .5	13
3.40	SB	FULL LANE	25 x 12 x .5	6
3.40	NB	FULL LANE	84 x 12 x .5	19
3.49	SB	LEFT	108 x 6 x .5	12
4.30	NB	FULL LANE	96 x 12 x .5	21
4.30	NB	FULL LANE	105 x 12 x .5	23
5.40	SB	FULL LANE	80 x 12 x .5	18
5.40	NB	RIGHT	360 x 6 x .5	40
5.45	SB	RIGHT	50 x 6 x .5	6
5.45	NB	FULL LANE	70 x 12 x .5	16
5.60	NB	FULL LANE	100 x 12 x .5	22
13.85	NB	FULL LANE	125 x 12 x .5	28
21.77	SB	FULL LANE	70 x 12 x .5	16
36.10	SB	FULL LANE	40 x 12 x .5	9
3.60	SB	RIGHT	126 x 6 x .5	14
3.03	SB	RIGHT	90 x 6 x .5	10
<b>TOTAL</b>				561

(N) NOT A SEPARATE ITEM. FOR INFORMATION ONLY.

(\*\*) EXACT LOCATIONS AND DIMENSIONS OF REPLACE AC SURFACING SHALL BE DETERMINED BY THE ENGINEER.

### SLURRY SEAL

DESCRIPTION	PM	PM	SLURRY SEAL
	BEGIN	END	(TON)
SHOULDERS NB/SB	0.6	6.5	194
SHOULDERS NB/SB	6.5	11.0	148
SHOULDERS NB/SB	11.0	22.5	378
SHOULDERS NB/SB	22.5	27.0	74
SHOULDERS NB	27.0	32.0	329
SHOULDERS SB	27.0	32.0	41
SHOULDERS NB/SB	32.0	32.4	53
SHOULDERS NB/SB	32.4	36.2	62
PAVEMENT NB	L0.1	L0.20	20
PAVEMENT NB	L0.20	L0.35	15
PAVEMENT NB	L0.35	L0.42	21
PAVEMENT NB	0.6	36.2	3509
PAVEMENT SB	L0.1	L0.20	20
PAVEMENT SB	L0.20	L0.35	15
PAVEMENT SB	L0.35	L0.42	21
PAVEMENT SB	0.6	36.2	3509
<b>TOTAL</b>			8409

### COLDPLANE AND OVERLAY HMA-C

DESCRIPTION	PM	PM	COLD PLANE AC PAVEMENT	TACK COAT	HMA-C
	BEGIN	END	(SQYD)	(TON)	(TON)
PAVEMENT NB	0.00	0.09	1901	0.6	192
PAVEMENT NB	0.09	0.6	4189	1.4	424
PAVEMENT SB	0.00	0.09	1478	0.5	150
PAVEMENT SB	0.09	0.60	4189	1.4	424
<b>TOTAL</b>			11,757	4	1,190

### TEMPORARY WATER POLLUTION CONTROL

ITEM	UNIT	QUANTITY
TEMPORARY FIBER ROLL	LF	1000

## SUMMARY OF QUANTITIES

**Q-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** MAINTENANCE ENGINEERING  
 FUNCTIONAL SUPERVISOR KEVIN CHEN  
 WILLIAM AMBROSE  
 KEVIN CHEN  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 REVISED BY  
 DATE REVISED



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	95	L0.0/36.2	7	18

<i>Michael Apante</i>	1-8-13
REGISTERED ELECTRICAL ENGINEER	DATE
1-14-13	
PLANS APPROVAL DATE	

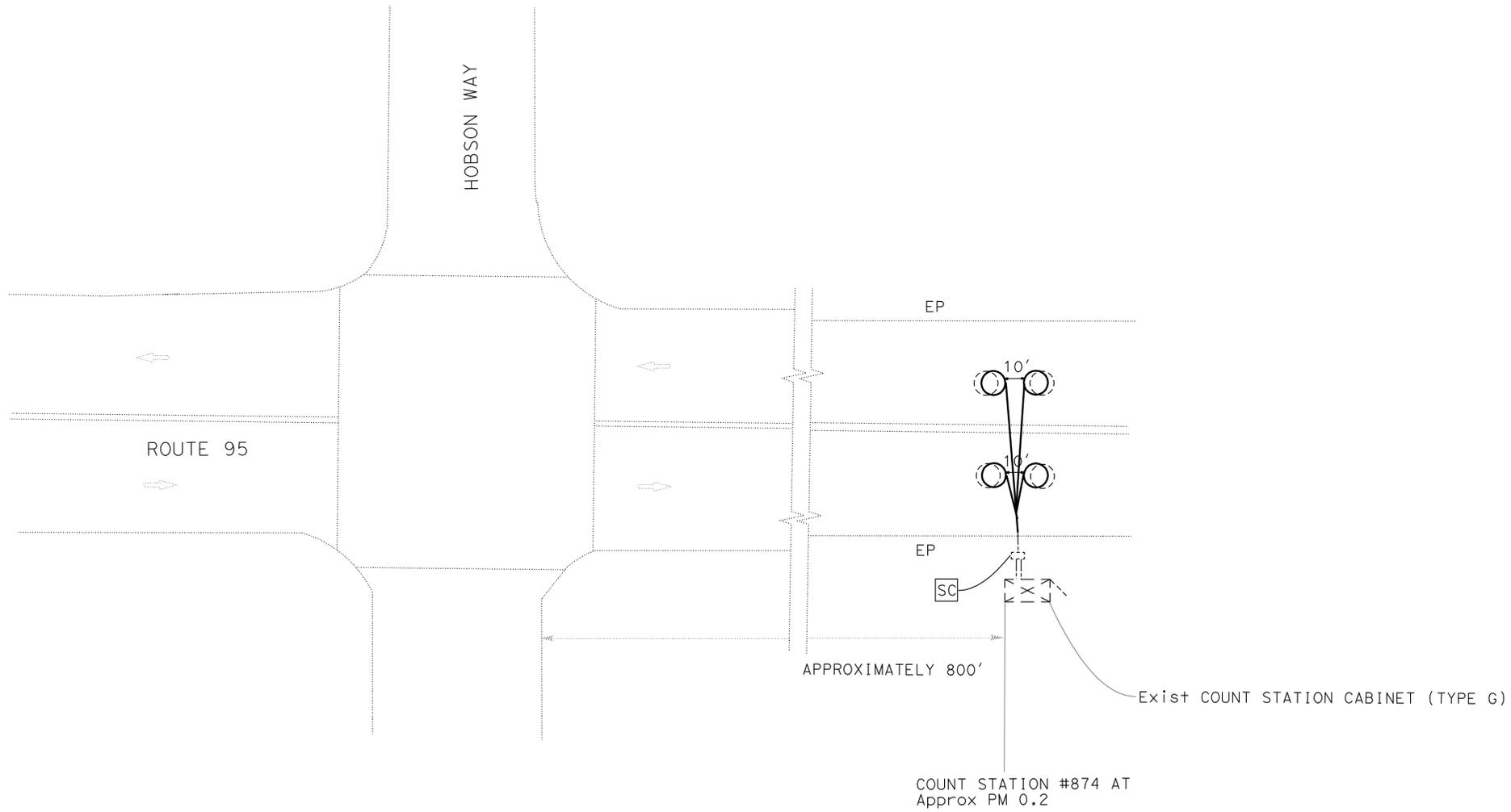
REGISTERED PROFESSIONAL ENGINEER
MICHAEL APANTE
No. E17164
Exp. 9/30/13
ELECTRICAL
STATE OF CALIFORNIA

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:**

1. ALL DISTANCES ARE APPROXIMATE. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL LOOP LOCATIONS.
2. EXISTING LOOPS, SHOWN TO BE REPLACED, SHALL BE AB.
3. NEW INDUCTIVE LOOP DETECTORS SHALL BE SPLICED TO EXISTING d.c.
4. CONTRACTOR SHALL COORDINATE WITH TRAFFIC OPERATIONS AT 909-383-5947 TO VERIFY LOOP DETECTOR OPERATION.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
<b>Caltrans</b> ELECTRICAL DESIGN A
FUNCTIONAL SUPERVISOR
DAVID A GONZALEZ
CALCULATED/DESIGNED BY
CHECKED BY
NASIMA HYDER
MICHAEL APANTE
REVISED BY
DATE REVISED



**INDUCTIVE LOOP DETECTOR**  
NO SCALE  
**E-1**

APPROVED FOR ELECTRICAL WORK ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	95	LO.0/36.2	8	17

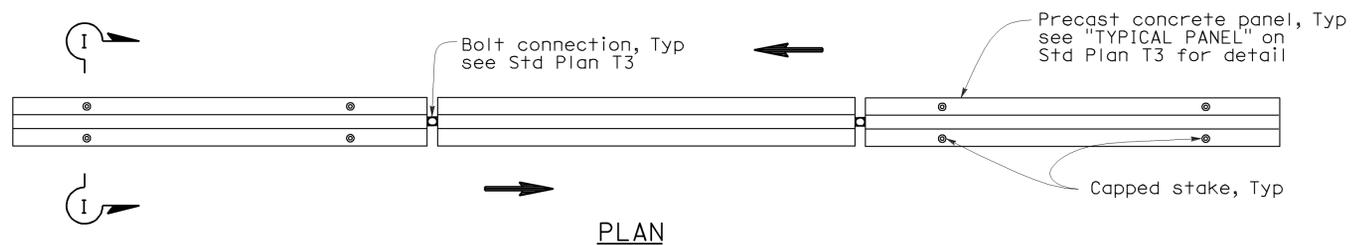
*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

May 20, 2011  
PLANS APPROVAL DATE

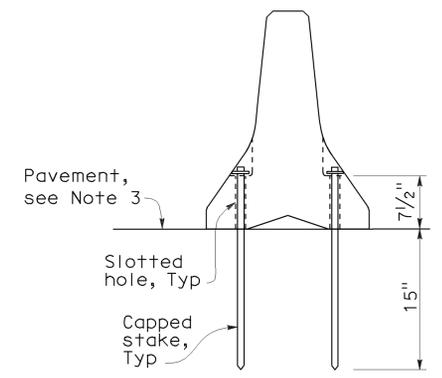
*Randell D. Hiatt*  
No. C50200  
Exp. 6-30-11  
CIVIL  
STATE OF CALIFORNIA

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 1-14-13

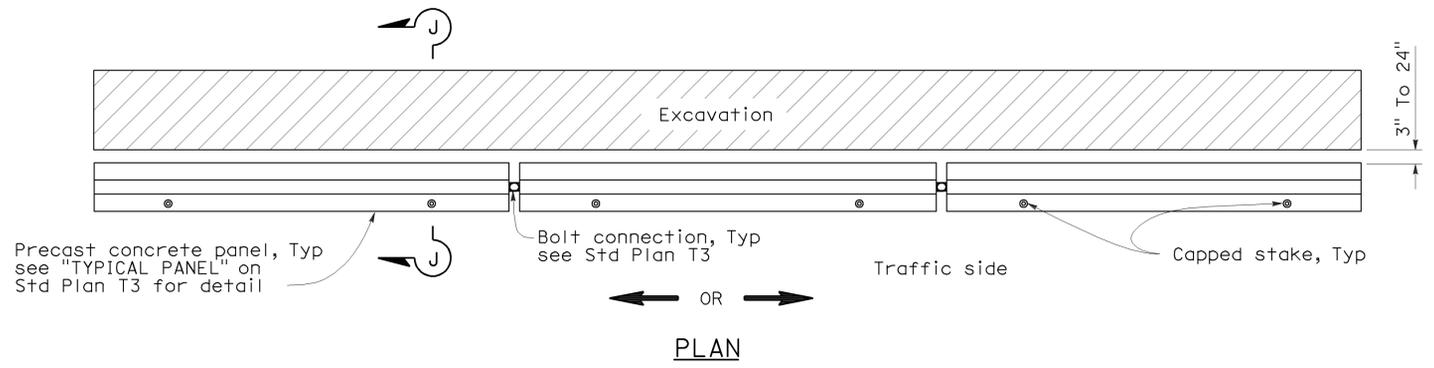


**RAILING STAKING CONFIGURATION FOR TWO-WAY TRAFFIC**  
See Note 1

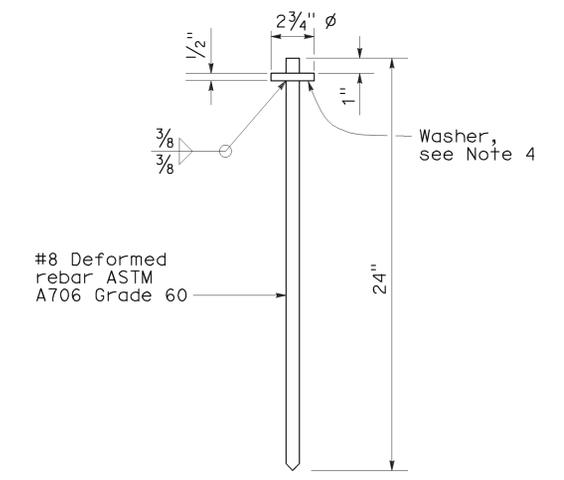
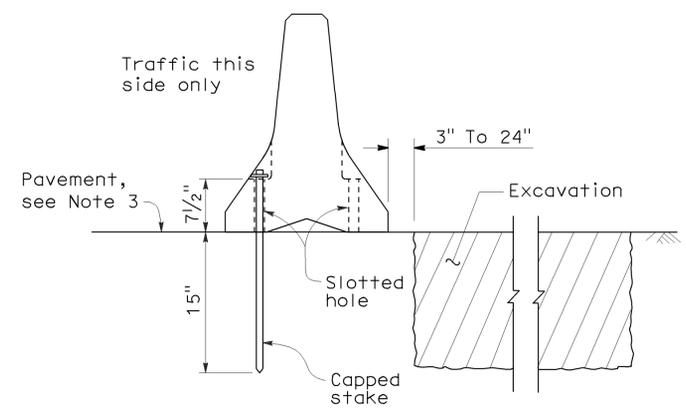


**NOTES:**

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 pavement.
4. The minimum yield strength for the washer must be 60,000 psi.
5. Direction of adjacent traffic indicated by →.



**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.

**NEW STANDARD PLAN NSP T3A**

2006 NEW STANDARD PLAN NSP T3A

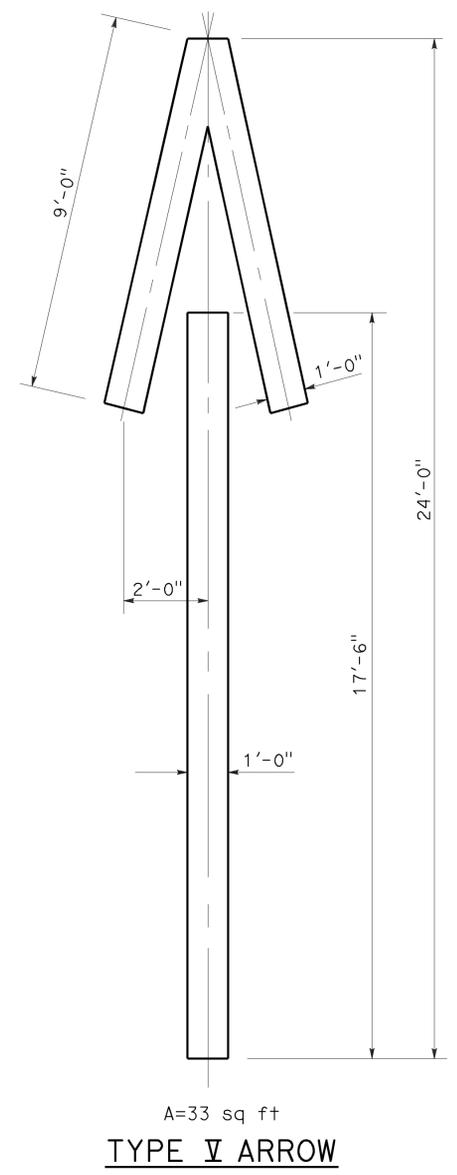
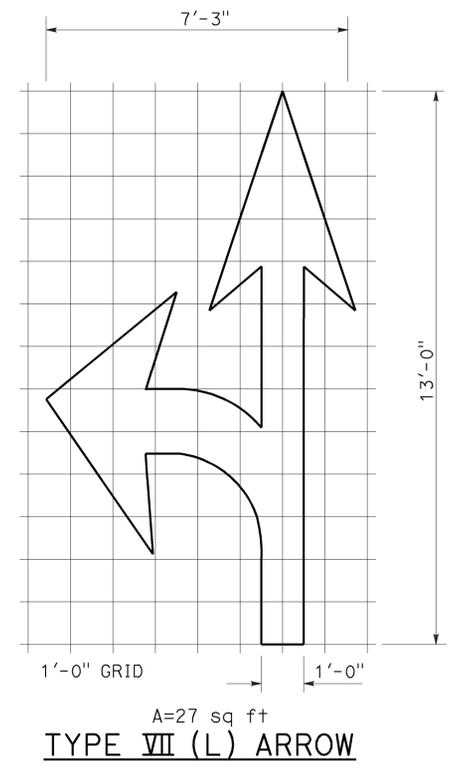
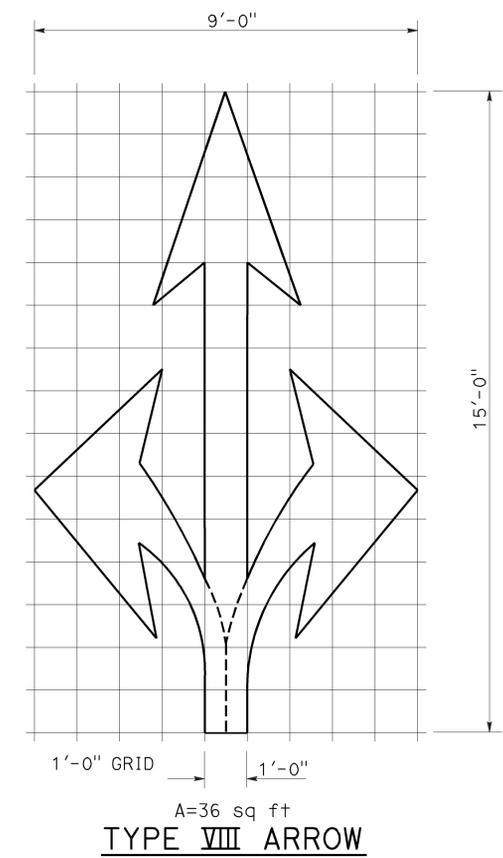
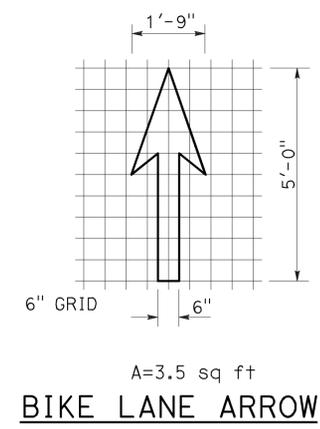
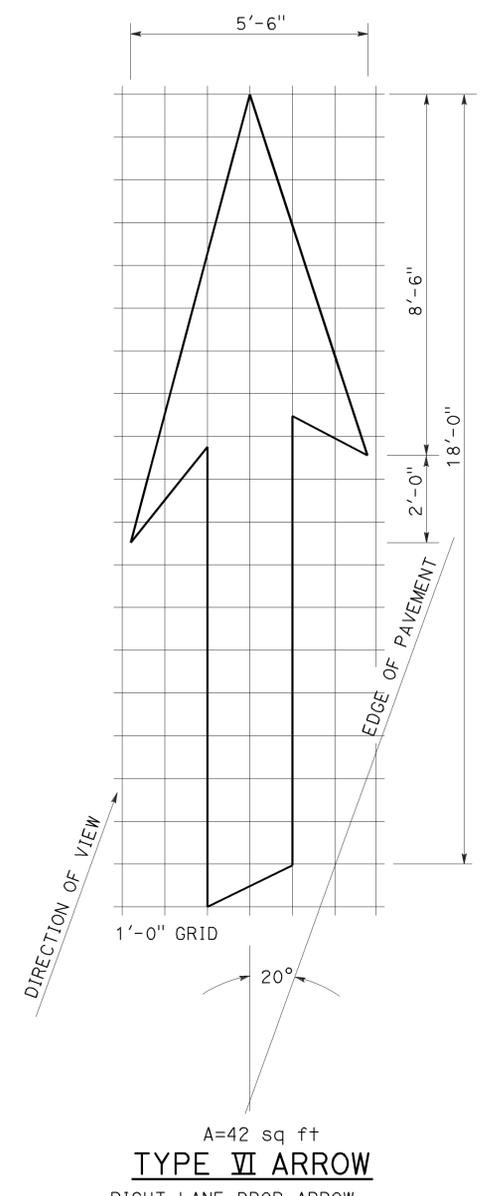
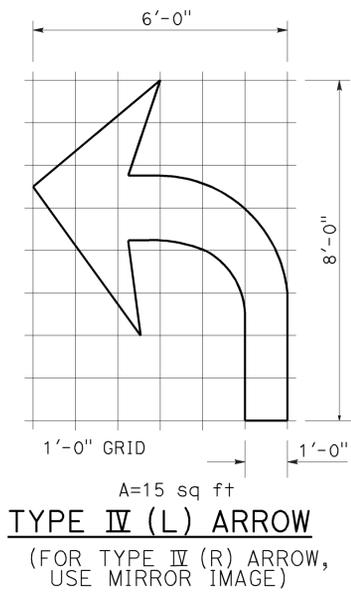
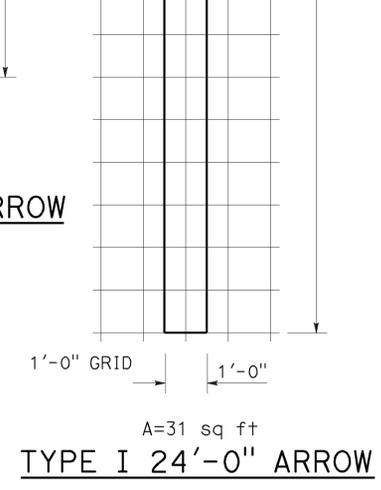
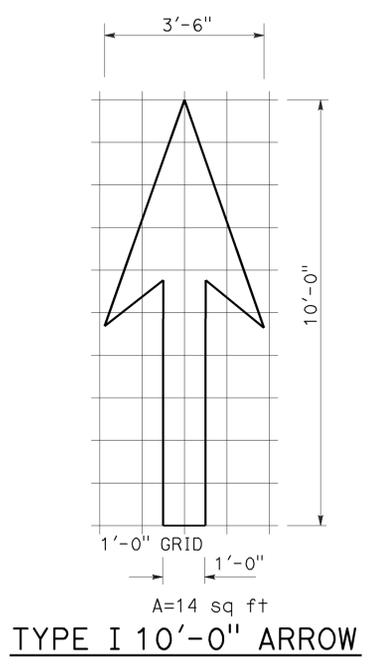
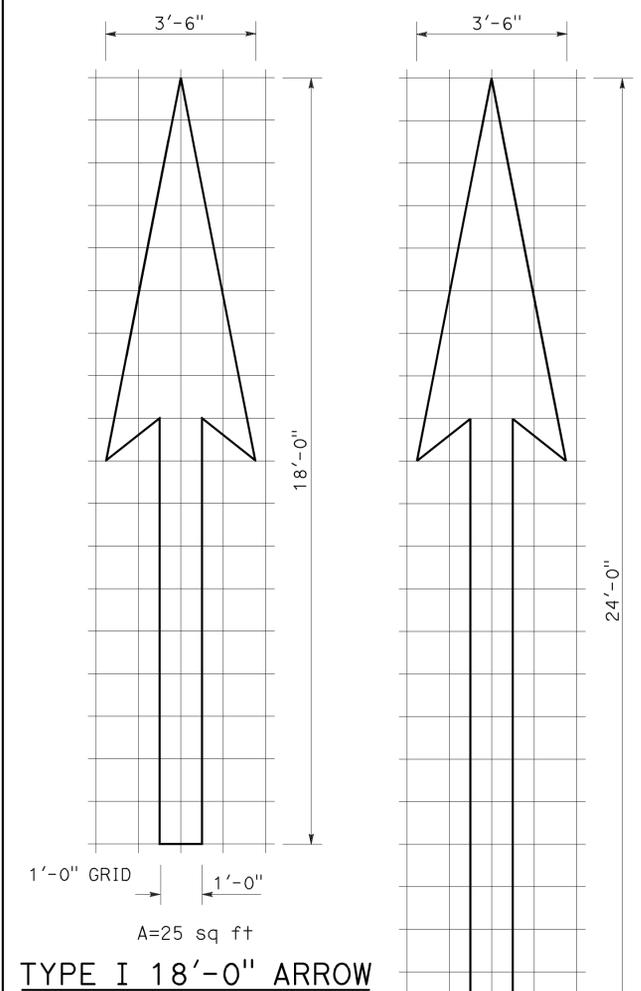
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	95	LO.0/36.2	9	18

Registered Professional Engineer  
 Roberta L. McLaughlin  
 No. C40375  
 Exp. 3-31-13  
 CIVIL  
 STATE OF CALIFORNIA

April 20, 2012  
 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 1-14-13



**NOTE:**  
 MINOR VARIATIONS IN DIMENSIONS  
 MAY BE ACCEPTED BY THE ENGINEER.

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**PAVEMENT MARKINGS  
 ARROWS**  
 NO SCALE

RSP A24A DATED APRIL 20, 2012 SUPERSEDES STANDARD PLAN A24A  
 DATED MAY 1, 2006 - PAGE 9 OF THE STANDARD PLANS BOOK DATED MAY 2006.

2006 REVISED STANDARD PLAN RSP A24A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	95	LO.0/36.2	10	18

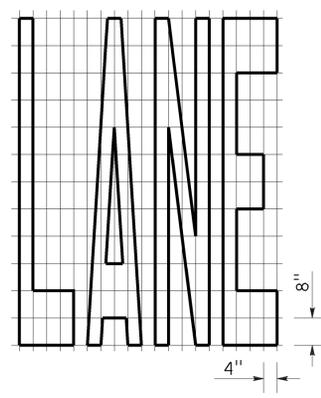
*Roberta L. McLaughlin*  
 REGISTERED CIVIL ENGINEER  
 No. C40375  
 Exp. 3-31-13  
 CIVIL  
 STATE OF CALIFORNIA

July 20, 2012  
 PLANS APPROVAL DATE

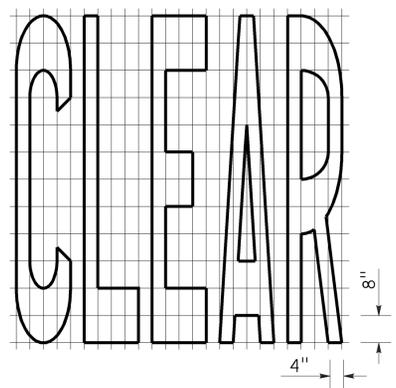
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 1-14-13

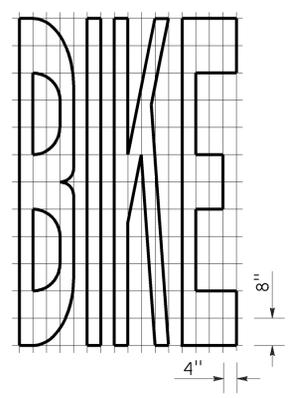
2006 REVISED STANDARD PLAN RSP A24E



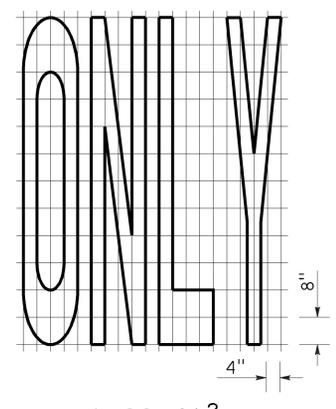
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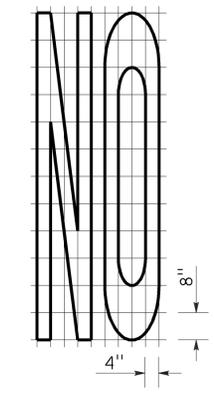
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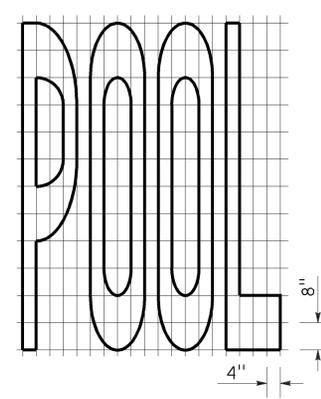
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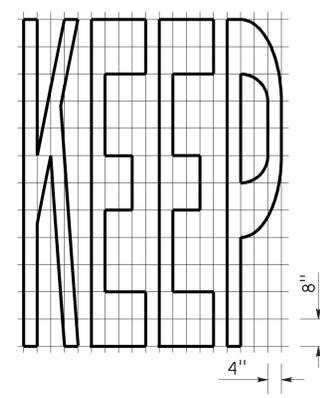
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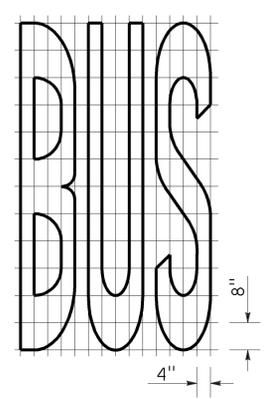
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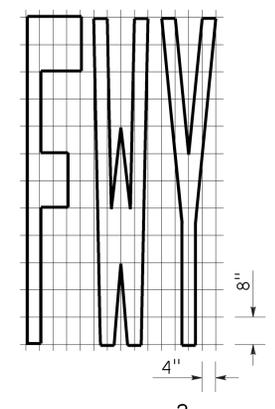
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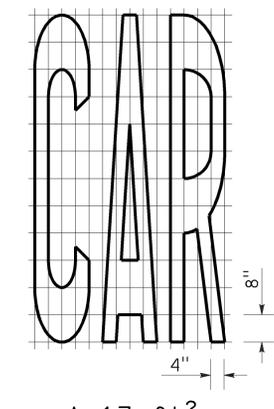
A=24 ft<sup>2</sup>



A=20 ft<sup>2</sup>

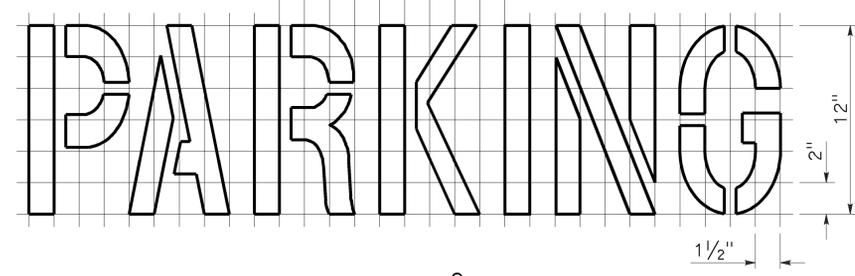
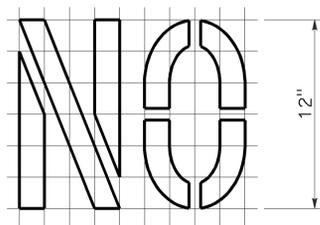


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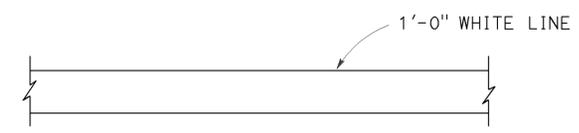


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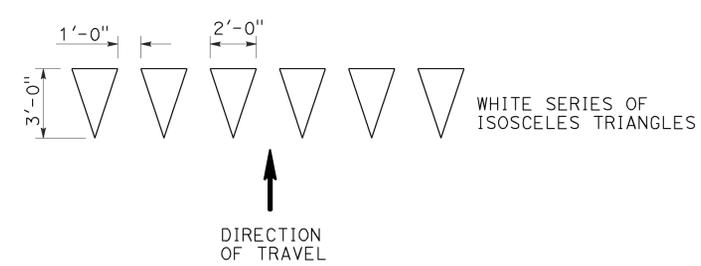
WORD MARKINGS			
ITEM	ft <sup>2</sup>	ITEM	ft <sup>2</sup>
LANE	24	NO	14
POOL	23	BIKE	21
CAR	17	BUS	20
CLEAR	27	ONLY	22
KEEP	24	FWY	16



A=2 ft<sup>2</sup>  
See Notes 6 and 7



LIMIT LINE (STOP LINE)



YIELD LINE

1. If a message consists of more than one word, it should read "UP", i.e., the first word should be nearest the driver.
2. The space between words should be at least four times the height of the characters for low speed roads, but not more than ten times the height of the characters. The space may be reduced appropriately where there is limited space because of local conditions.
3. Minor variations in dimensions may be accepted by the Engineer.
4. Portions of a letter, number or symbol may be separated by connecting segments not to exceed 2" in width.
5. The words "NO PARKING" pavement marking is to be used for parking facilities. For typical locations of markings, see Standard Plans A90A and A90B.
6. The words "NO PARKING", shall be painted in white letters no less than 1'-0" high on a contrasting background and located so that it is visible to traffic enforcement officials.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**PAVEMENT MARKINGS  
WORDS, LIMIT AND YIELD LINES**

NO SCALE

RSP A24E DATED JULY 20, 2012 SUPERSEDES STANDARD PLAN A24E  
DATED MAY 1, 2006 - PAGE 13 OF THE STANDARD PLANS BOOK DATED MAY 2006.

**REVISED STANDARD PLAN RSP A24E**

## ELECTROLIERS

STANDARD TYPES	High mast light pole
15, 15D	
15 STRUCTURE	
21, 21D STRUCTURE	
30	
31	
32	
35	
36-20A	

**NOTES:**

- Luminaires shall be 310 W HPS when installed on Type 21, 21D, 30, 31, 32, 35 and 36-20A Standards, unless otherwise specified. Luminaires shall be 200 W HPS when installed on other type standards or poles, unless otherwise specified.
- Luminaires shall be the cutoff type, ANSI Type III medium cutoff lighting distribution, unless otherwise specified.
- Variations noted adjacent to symbol on project plans.

Electrolier (see project notes or project plans)

Luminaire on wood pole

## STANDARD NOTES:

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

## ABBREVIATIONS AND EQUIPMENT DESIGNATIONS

### PROPOSED EXISTING

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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	95	LO.0/36.2	11	18

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

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

To accompany plans dated 1-14-13

## SOFFIT AND WALL MOUNTED LUMINAIRES

	Pendant, 70 W HPS unless otherwise specified.
	Flush, 70 W HPS unless otherwise specified.
	Wall surface, 70 W HPS unless otherwise specified.
	Existing soffit or wall luminaire to remain unmodified.
	Existing soffit or wall luminaire to be modified as specified.

### NOTE:

Arrow indicates "street side" of luminaire.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**ELECTRICAL SYSTEMS  
(SYMBOLS AND ABBREVIATIONS)**

NO SCALE

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

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

2006 REVISED STANDARD PLAN RSP ES-1A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	95	LO.0/36.2	12	18

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

To accompany plans dated 1-14-13

### CONDUIT

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

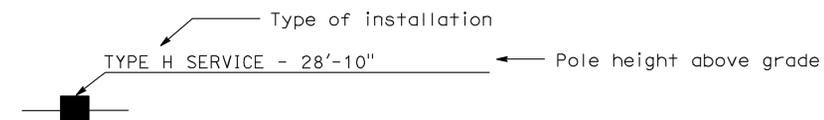
### SIGNAL EQUIPMENT

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

### SERVICE EQUIPMENT

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

### POLE-MOUNTED SERVICE DESIGNATION



### ILLUMINATED OVERHEAD SIGN

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

### SIGNAL EQUIPMENT Cont

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

#### NOTES:

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

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**ELECTRICAL SYSTEMS  
 (SYMBOLS AND ABBREVIATIONS)**

NO SCALE

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

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

2006 REVISED STANDARD PLAN RSP ES-1B

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	95	L0.0/36.2	13	18

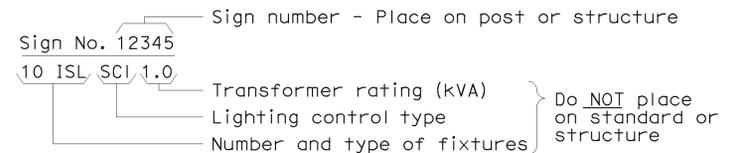
*Jeffery G. McRae*  
 REGISTERED ELECTRICAL ENGINEER  
 October 5, 2007  
 PLANS APPROVAL DATE  
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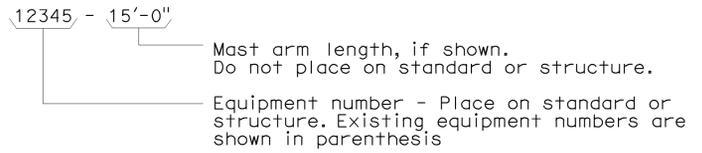
To accompany plans dated 1-14-13

### EQUIPMENT IDENTIFICATION

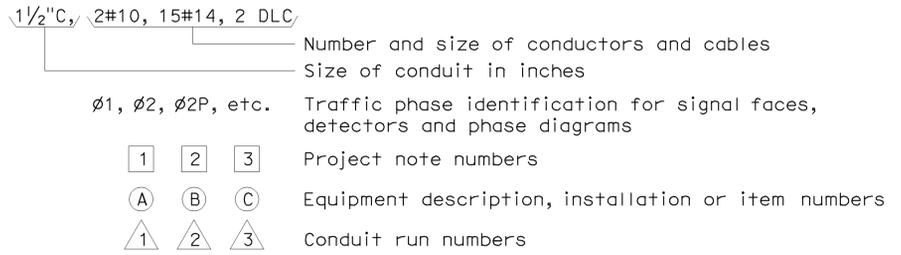
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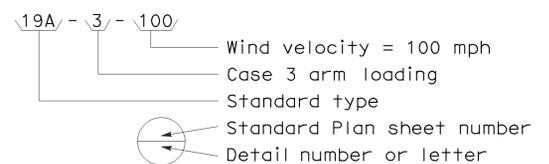
#### ELECTROLIER OR EQUIPMENT IDENTIFICATION NUMBER:



#### CONDUIT AND CONDUCTOR IDENTIFICATION:



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



### MISCELLANEOUS EQUIPMENT

PROPOSED	EXISTING	Description
		Changeable message sign
		Closed circuit television camera
		Highway advisory radio pole and antenna
		Extinguishable message sign
		Detection device M = Microwave sensor V = Video image sensor

### WIRING DIAGRAM LEGEND

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

### PULL BOXES

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

### VEHICLE DETECTORS

PROPOSED	EXISTING	Description
		Vehicle detector designation
U	L	U = Upper L = Lower
5		Slot number in input file
J		Input file (I or J)
9		Phase
		Type A detector loop. Outline of sawcut shown.
		Type B detector loop. Outline of sawcut shown.
		Type C detector loop. Outline of sawcut shown.
		Type D detector loop. Outline of sawcut shown.
		Type E detector loop. Outline of sawcut shown.
		Type Q detector loop. Outline of sawcut shown.
		Magnetic detector
		Detector handhole
		Microwave or video detection zone

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

## ELECTRICAL SYSTEMS (SYMBOLS AND ABBREVIATIONS)

NO SCALE

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

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

2006 REVISED STANDARD PLAN RSP ES-1C

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	95	LO.0/36.2	14	18

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

October 5, 2007  
 PLANS APPROVAL DATE

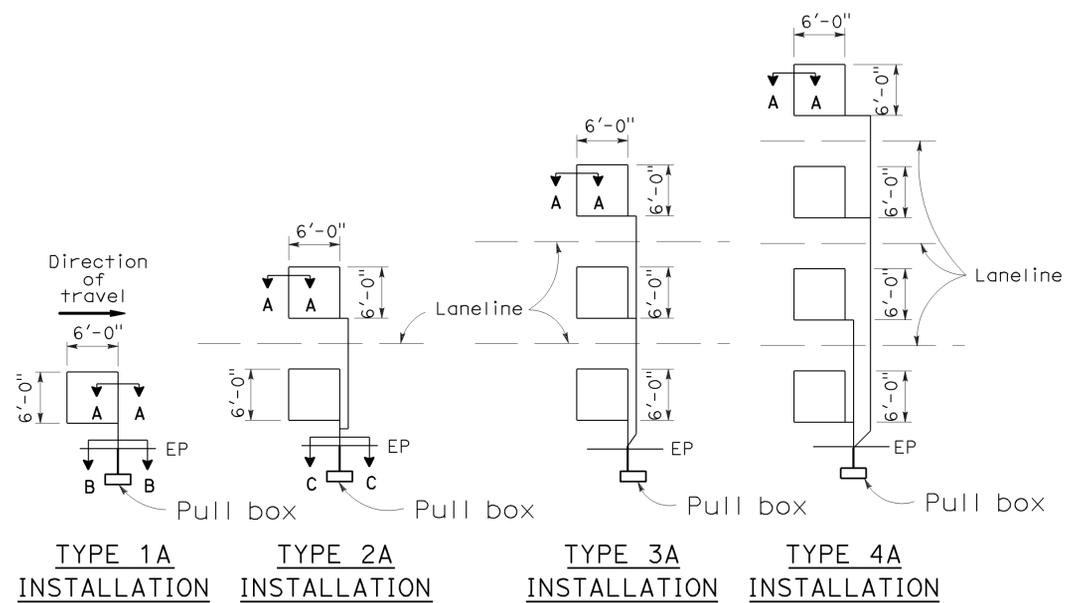
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To accompany plans dated 1-14-13

2006 REVISED STANDARD PLAN RSP ES-5A

### LOOP INSTALLATION PROCEDURE

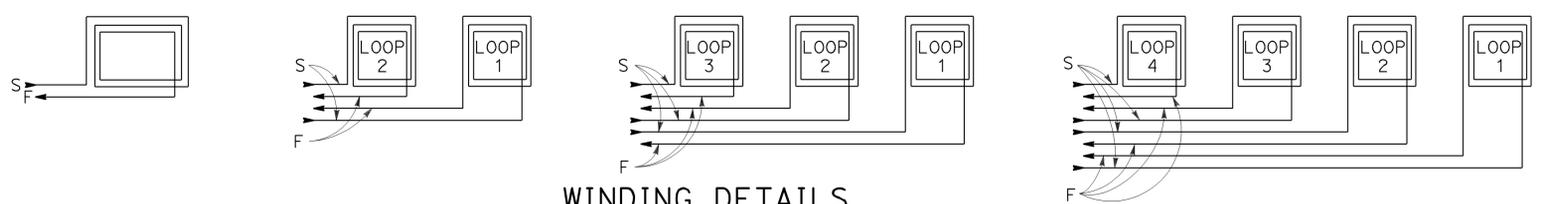
- Loops shall be centered in lanes.
- Saw slots in pavement for loop conductors as shown in details.
- Distance between side of loop and a lead-in saw cut from adjacent detectors shall be 2'-0" minimum. Distance between lead-in saw cuts shall be 6" minimum.
- Bottom of saw slot shall be smooth with no sharp edges.
- Slots shall be washed until clean, blown out and thoroughly dried before installing loop conductors.
- Adjacent loops on the same sensor unit channel shall be wound in opposite directions.
- Identify and tag loop circuit pairs in the pull box with loop number, start (S) and finish (F) of conductor. Identify and tag lead-in-cable with sensor number and phase.
- Install loop conductor in slot using a 3/16" to 1/4" thick wood paddle. Hold loop conductors with wood paddles (at the bottom of the sawed slot) during sealant placement.
- No more than 2 twisted pairs shall be installed in one sawed slot.
- Allow additional 5'-0" of slack length of conductor for the lead-in run to pull box.
- The additional length of each conductor for each loop shall be twisted together into a pair (6 turns per 3'-4" minimum) before being placed in the slot and conduit leading to pull box.
- Test each loop circuit for continuity, circuit resistance and insulation resistance at the pull box before filling slots.
- Fill slots as shown in details.
- Splice loop conductors to lead-in-cable. Splices shall be soldered.
- End of lead-in-cable and Type 2 loop conductor shall be waterproofed prior to installing in conduit to prevent moisture from entering the cable.
- Lead-in-cable shall not be spliced between the pull box and the controller cabinet terminals.
- Test each loop circuit for continuity, circuit resistance and insulation resistance at the controller cabinet location.
- Where loop conductors are not to be spliced to a lead-in-cable, the ends of the conductors shall be taped and waterproofed with electrical insulating coating.



TYPE 1A INSTALLATION    TYPE 2A INSTALLATION    TYPE 3A INSTALLATION    TYPE 4A INSTALLATION

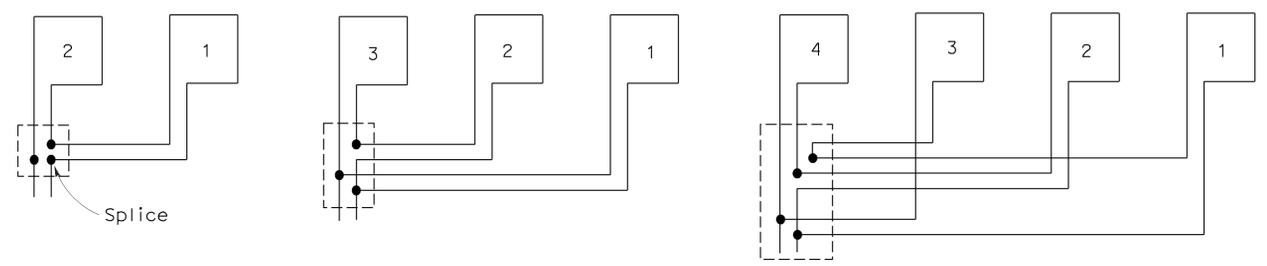
### SAWCUT DETAILS

- (Type A loop detector configurations illustrated)
- 1A thru 4A = 1 Type A loop configuration in each lane.
  - 1B thru 4B = 1 Type B loop configuration in each lane.
  - 1C = 1 Type C loop configuration entering lanes as required.
  - 1D thru 4D = 1 Type D loop configuration in each lane.
  - 1E thru 4E = 1 Type E loop configuration in each lane.
  - 1Q thru 4Q = 1 Type Q loop configuration in each lane.
- (Use Type A, B, C, D, E or Q loop detector configurations only when specified or shown on plans)



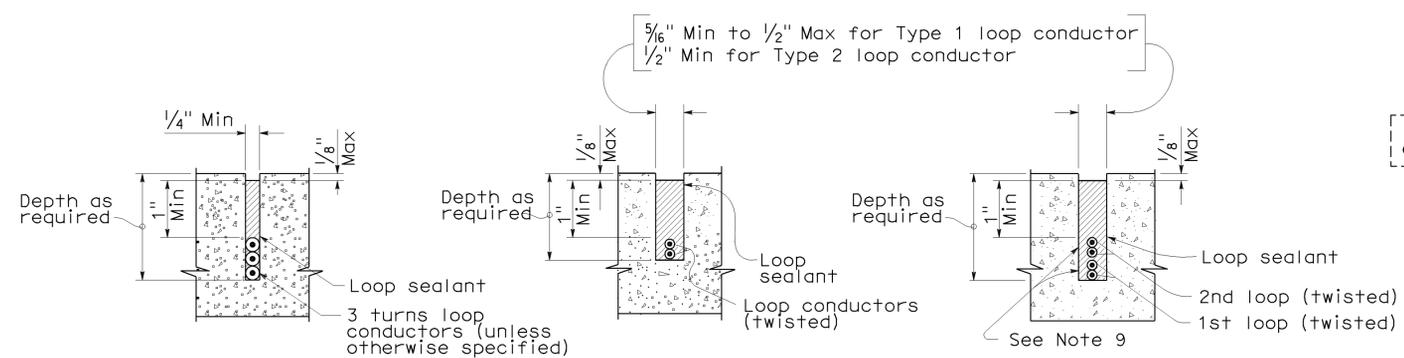
### WINDING DETAILS

See Notes 6 and 7



### TYPICAL LOOP CONNECTIONS

(Dashed lines represent the pull box)



SECTION A-A    SECTION B-B    SECTION C-C  
 SLOT DETAILS - TYPE 1 AND TYPE 2 LOOP CONDUCTOR

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**ELECTRICAL SYSTEMS  
 (DETECTORS)**

NO SCALE

RSP ES-5A DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-5A  
 DATED MAY 1, 2006 - PAGE 423 OF THE STANDARD PLANS BOOK DATED MAY 2006.

**REVISED STANDARD PLAN RSP ES-5A**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	95	LO.0/36.2	15	18

*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

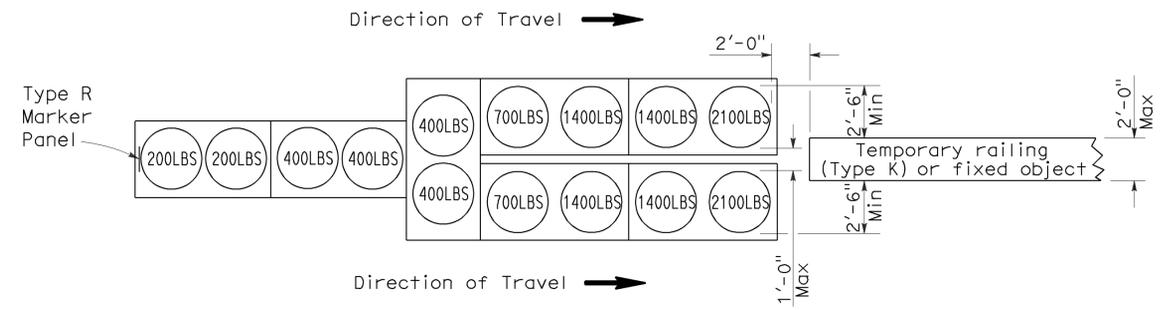
June 6, 2008  
PLANS APPROVAL DATE

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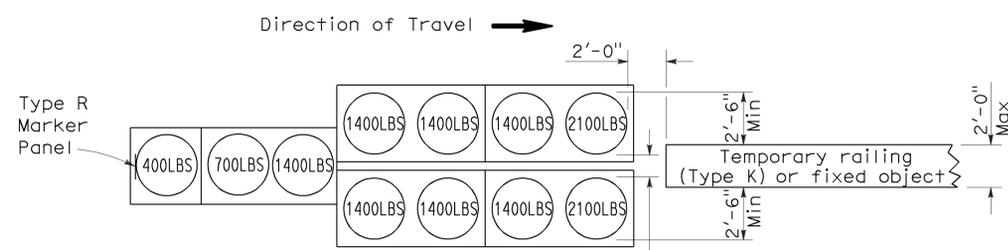
REGISTERED PROFESSIONAL ENGINEER  
No. C50200  
Exp. 6-30-09  
CIVIL  
STATE OF CALIFORNIA

To accompany plans dated 1-14-13

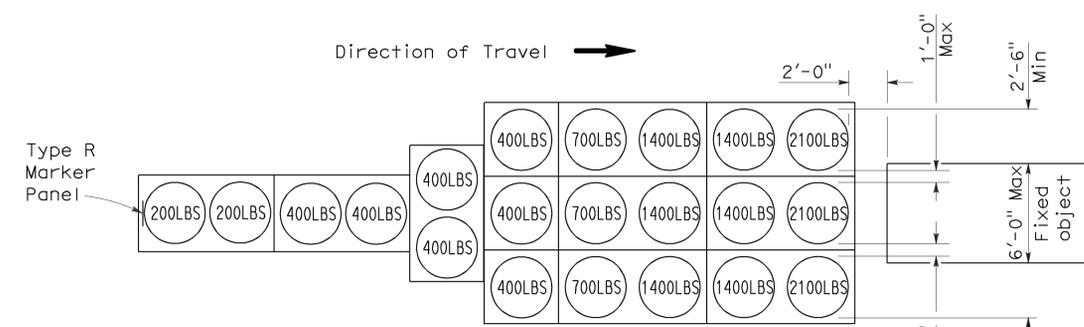
2006 REVISED STANDARD PLAN RSP T1A



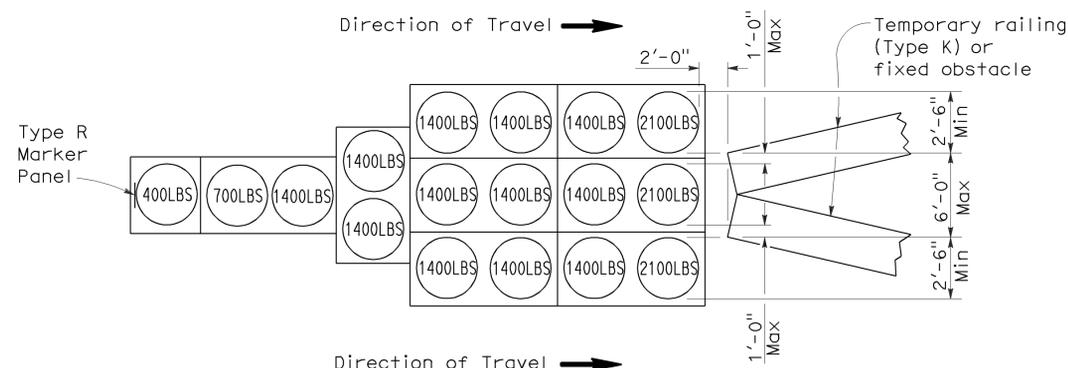
**ARRAY 'TU14'**  
Approach speed 45 mph or more



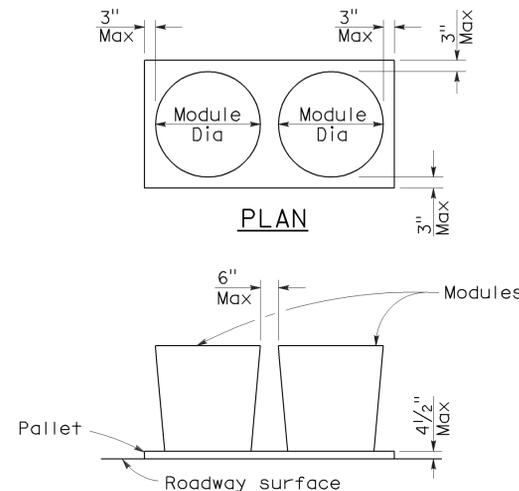
**ARRAY 'TU11'**  
Approach speed less than 45 mph



**ARRAY 'TU21'**  
Approach speed 45 mph or more



**ARRAY 'TU17'**  
Approach speed less than 45 mph



**PLAN**  
**ELEVATION**  
**CRASH CUSHION PALLET DETAIL**  
See Note 7

**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.
- Temporary crash cushion arrays shall not encroach on the traveled way.
- Place the top of Type R marker panel 1" below the module lid.
- Refer to Standard Plan A73B for marker details.
- 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  
(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	Riv	95	LO.0/36.2	16	18

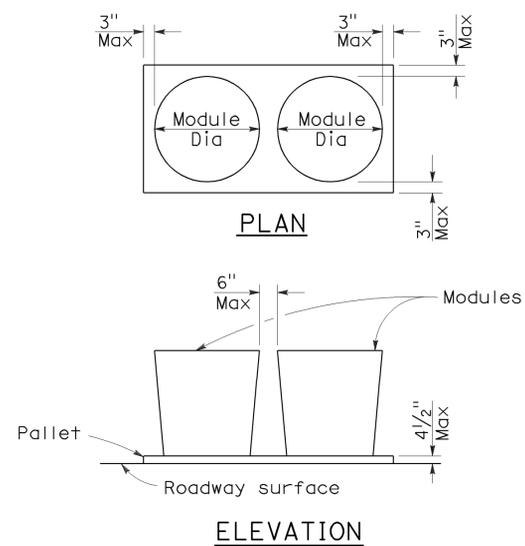
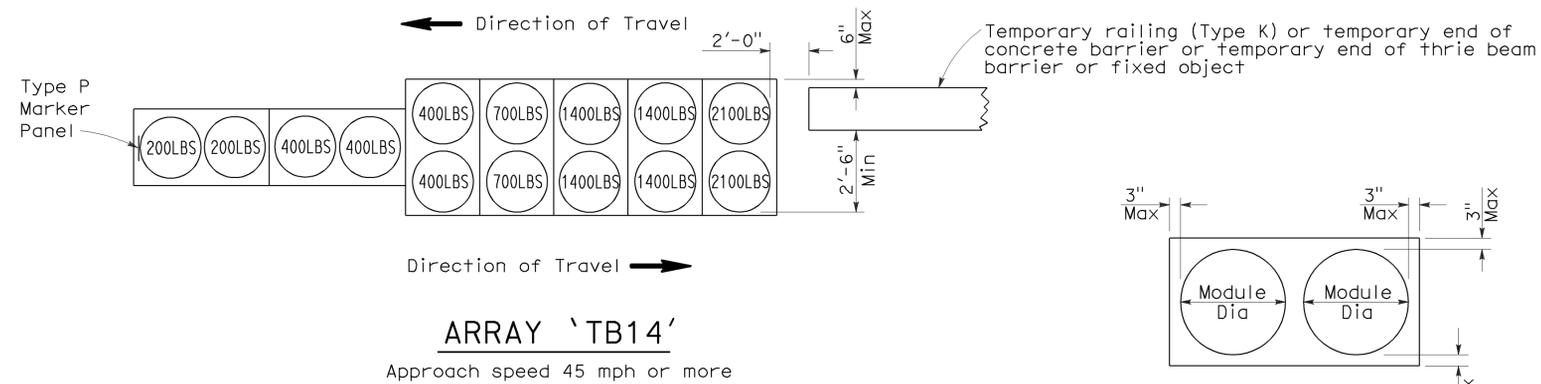
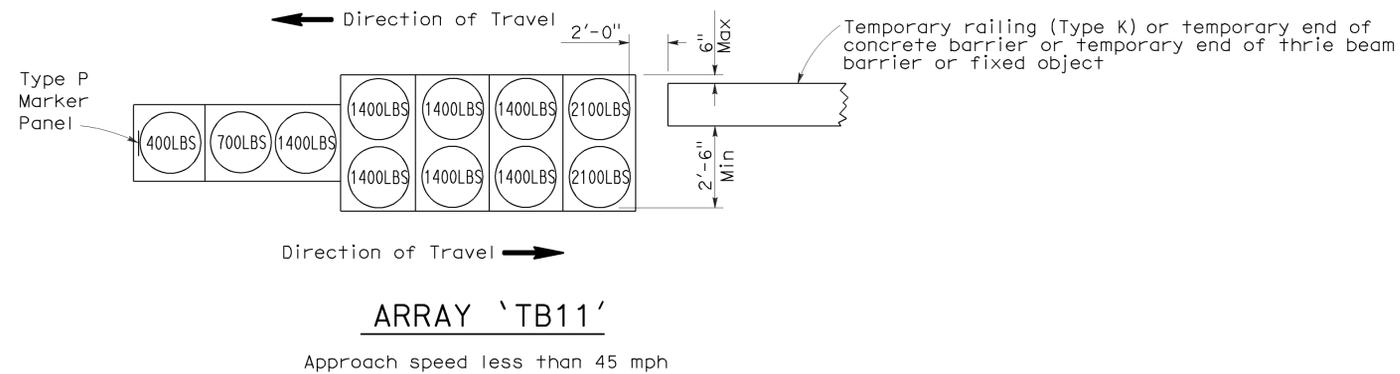
*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

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 1-14-13



**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	Riv	95	LO.0/36.2	17	18

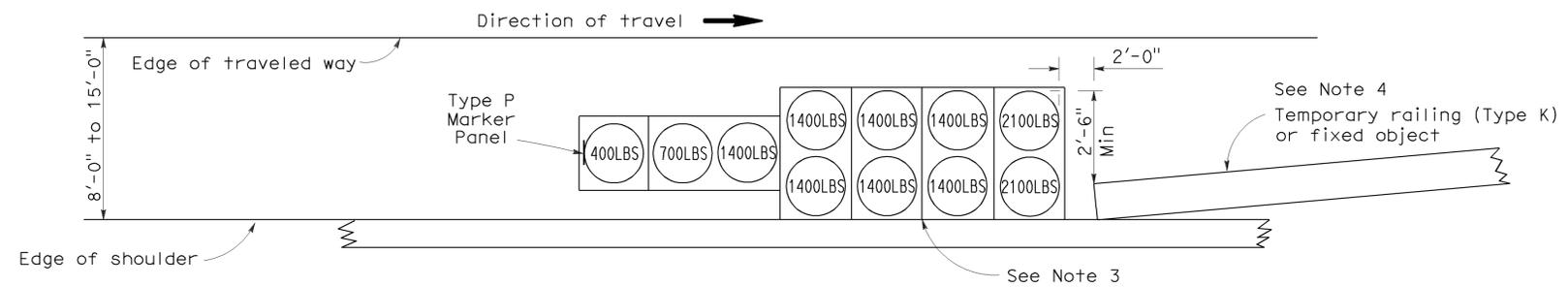
*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

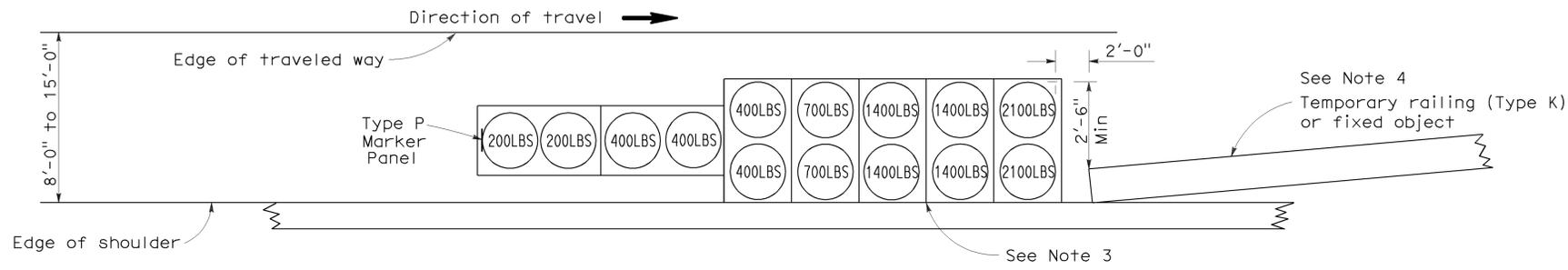
*Randell D. Hiatt*  
No. C50200  
Exp. 6-30-09  
CIVIL  
STATE OF CALIFORNIA

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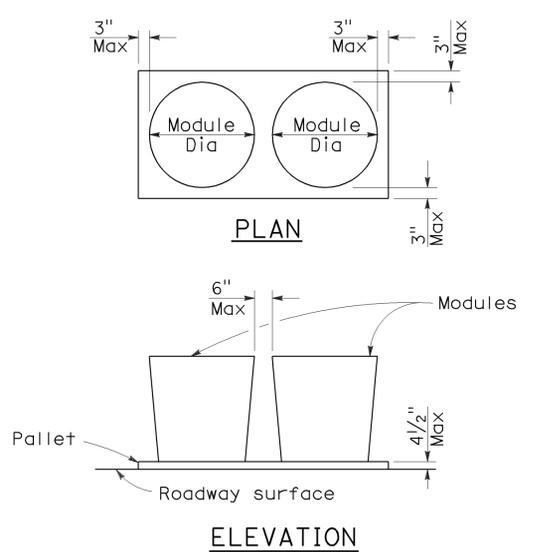
To accompany plans dated 1-14-13



**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.

2006 REVISED STANDARD PLAN RSP T2

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**TEMPORARY CRASH CUSHION,  
SAND FILLED  
(SHOULDER INSTALLATIONS)**

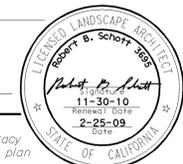
NO SCALE

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

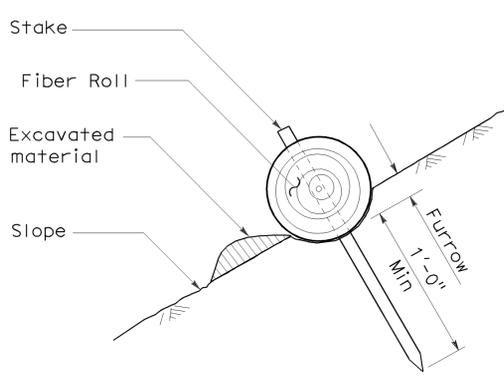
**REVISED STANDARD PLAN RSP T2**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	95	LO.0/36.2	18	18

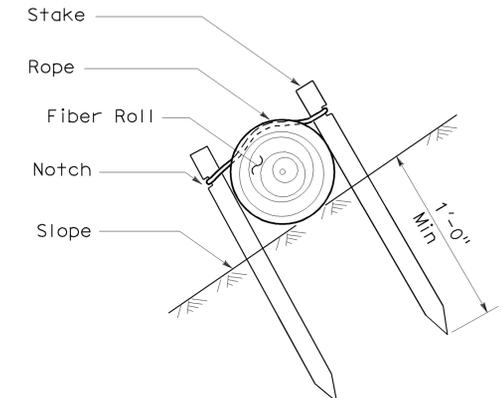
Robert B. Schott  
 LICENSED LANDSCAPE ARCHITECT  
 April 3, 2009  
 PLANS APPROVAL DATE  
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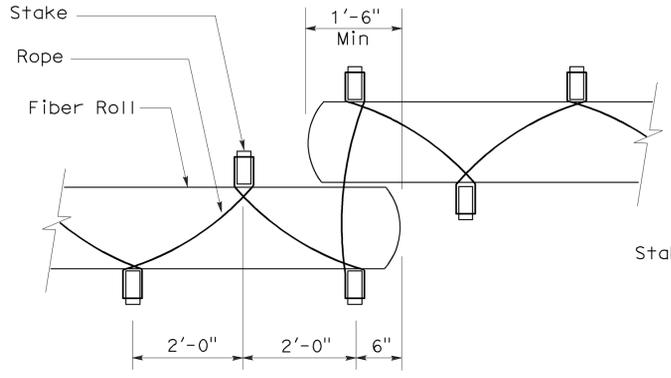
To accompany plans dated 1-14-13



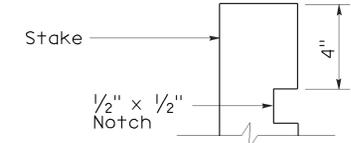
**SECTION**  
**TEMPORARY FIBER ROLL (TYPE 1)**



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

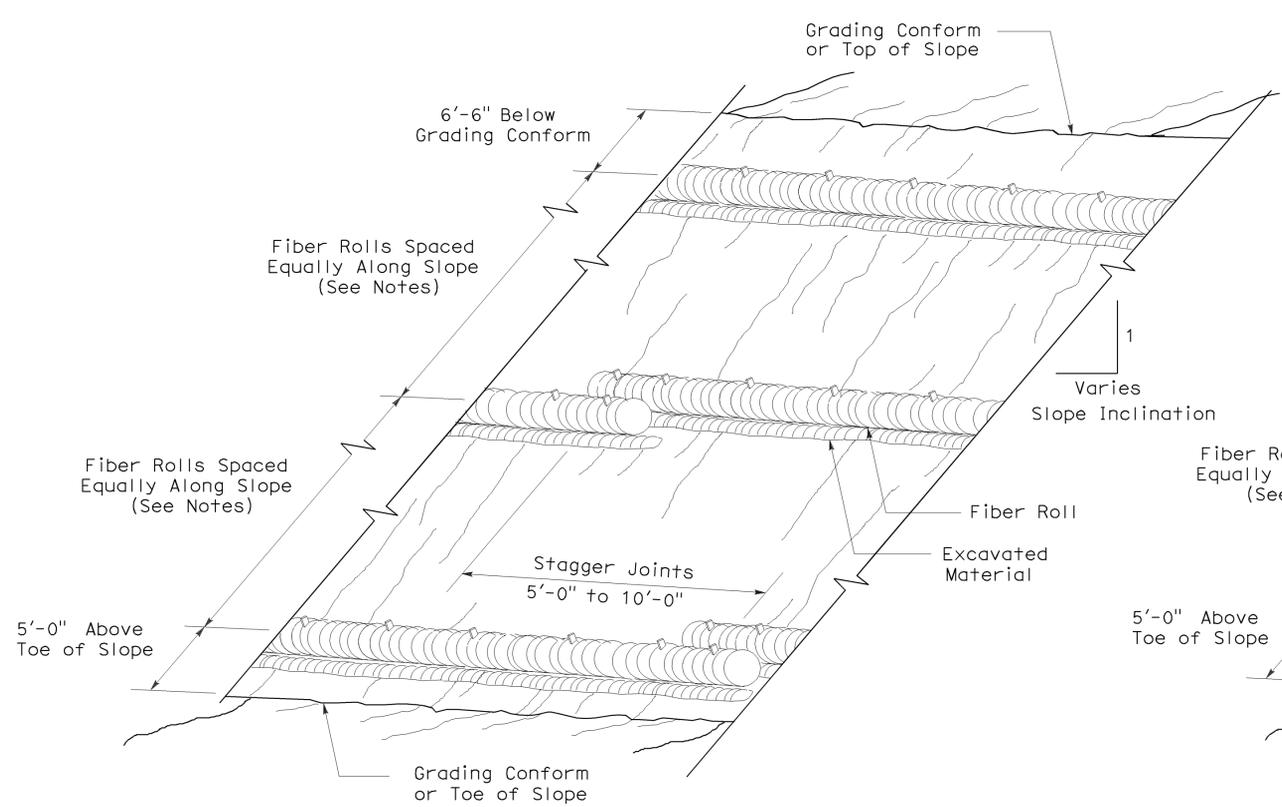


**PLAN**

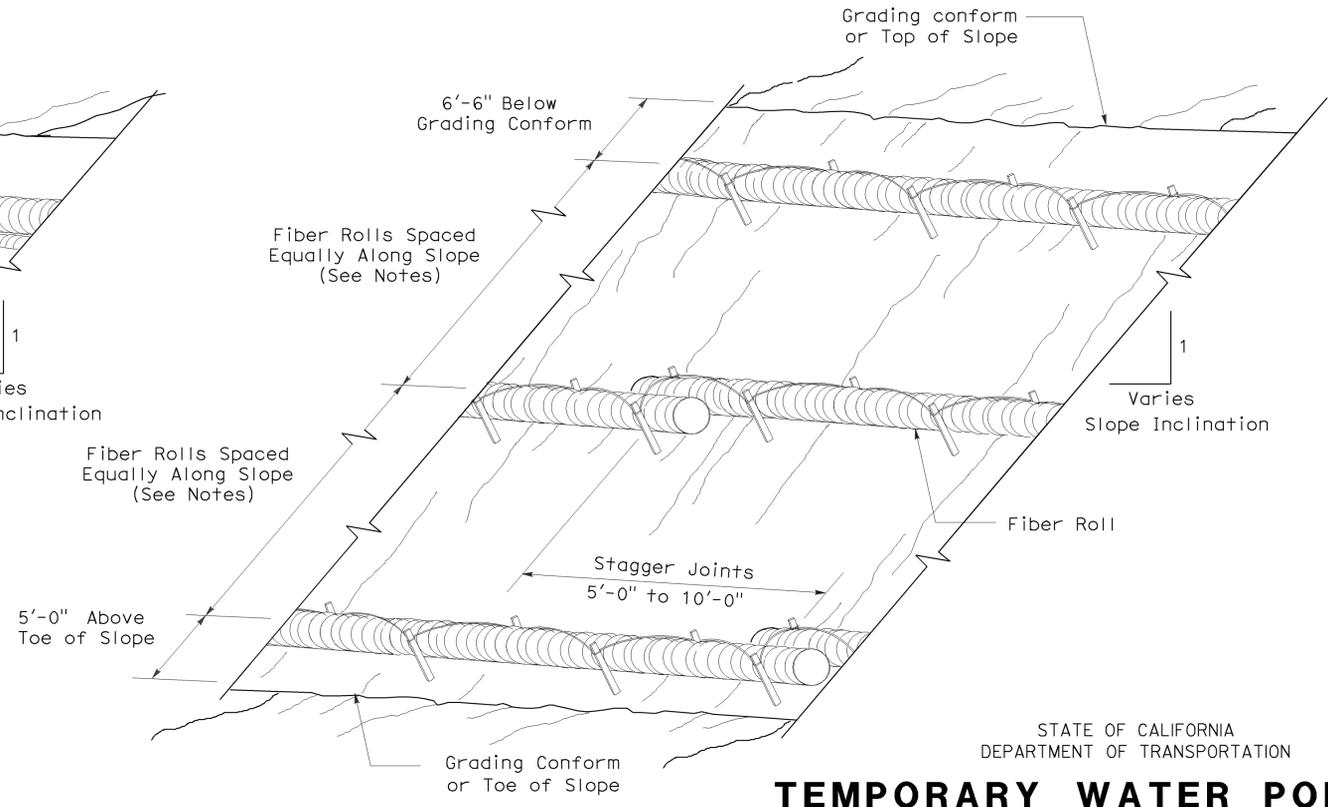


**ELEVATION**  
**STAKE NOTCH DETAIL**

- 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