

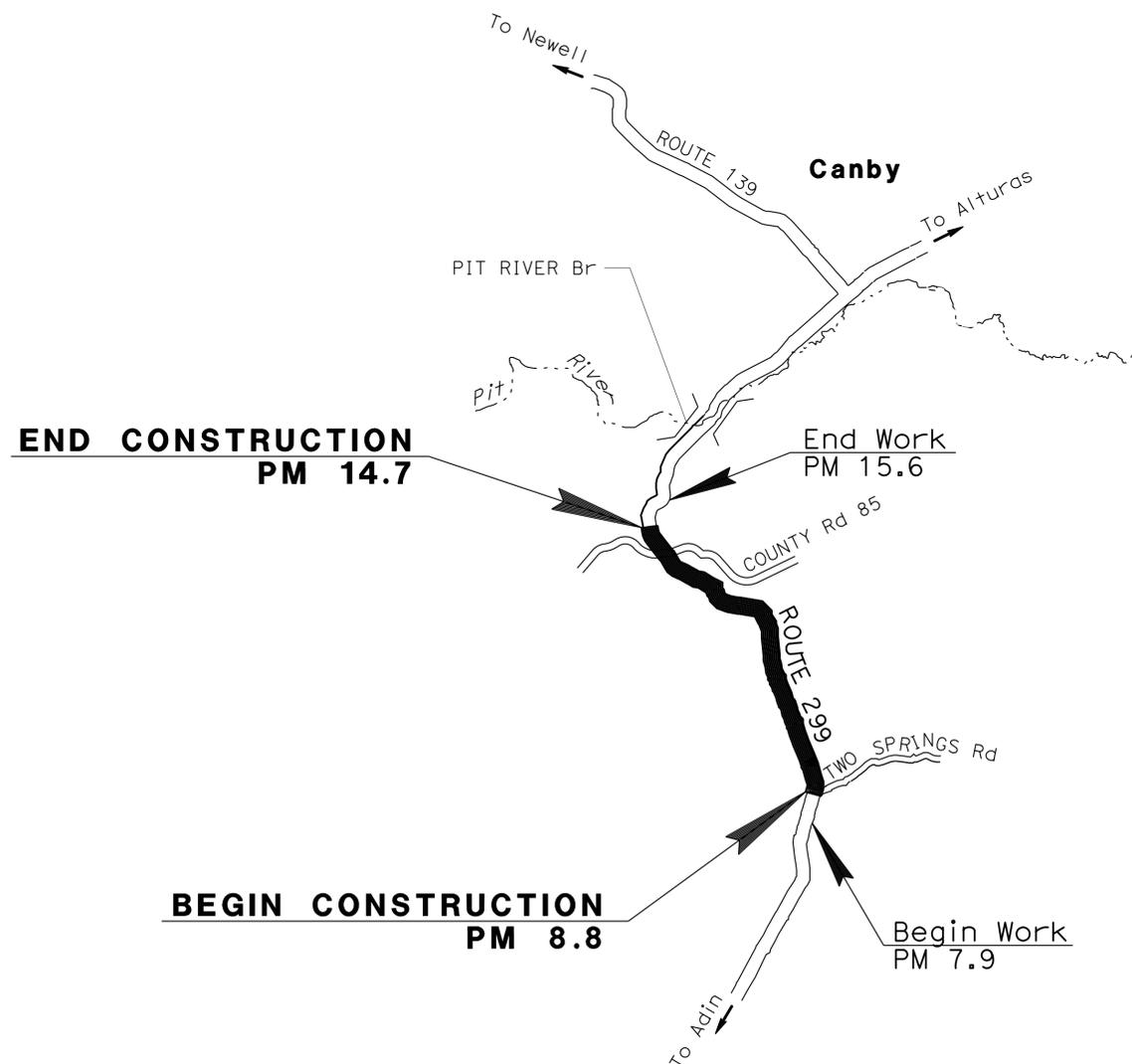
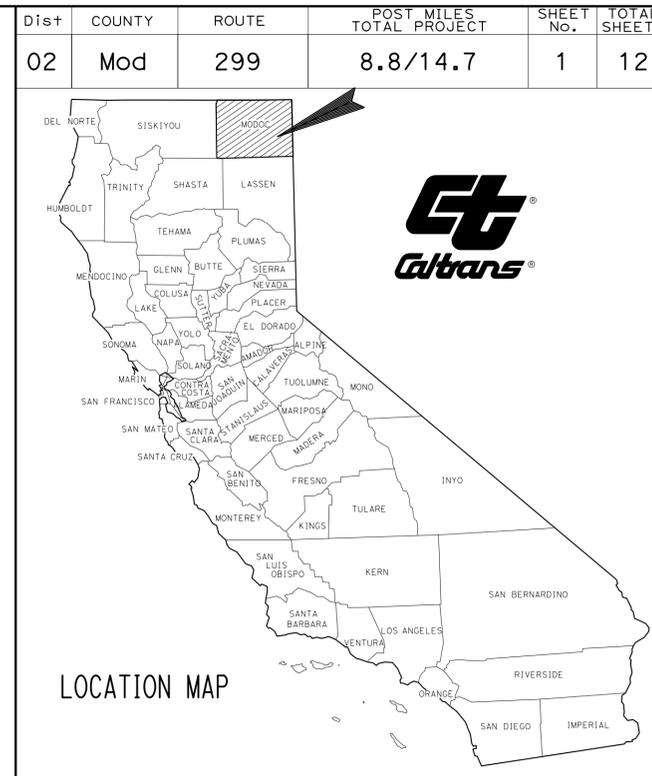
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN MODOC COUNTY ABOUT 8 MILES WEST
OF CANBY FROM 0.1 MILE WEST OF TWO
SPRINGS ROAD TO 0.1 MILE EAST OF
COUNTY ROAD 85

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE
2	TYPICAL CROSS SECTIONS
3	CONSTRUCTION DETAILS
4	CONSTRUCTION AREA SIGNS
5	PAVEMENT DELINEATION DETAILS & QUANTITIES
6	SUMMARY OF QUANTITIES
7-8	TRAFFIC CONTROL SYSTEM
9-12	REVISED STANDARD PLANS

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

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2010



PROJECT MANAGER
LANCE BROWN
 DESIGN ENGINEER
LANCE BROWN

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

NO SCALE

PROJECT ENGINEER DATE 03-20-13
 REGISTERED CIVIL ENGINEER
March 20, 2013
 PLANS APPROVAL DATE



CONTRACT No.	02-4G1304
PROJECT ID	0213000078

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Mod	299	8.8/14.7	3	12

03-20-13	
REGISTERED CIVIL ENGINEER	DATE
03-20-13	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER
MICHAEL CONNER
No. C73123
Exp. 12-31-14
CIVIL

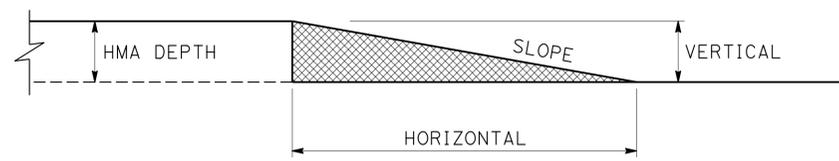
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:

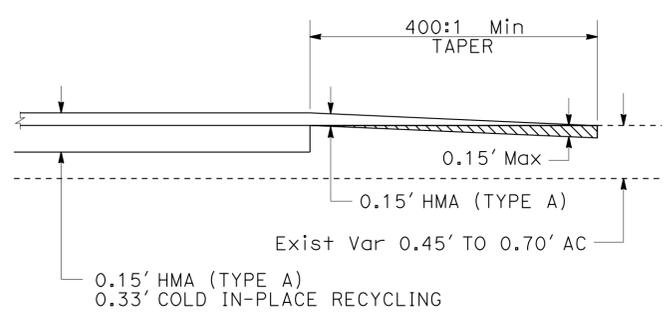
1. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

VERTICAL	SLOPE RATIO Horiz/Vert
0-0.10'	60:1
GREATER THAN 0.10'	160:1*

* PAVED WITH PAVER



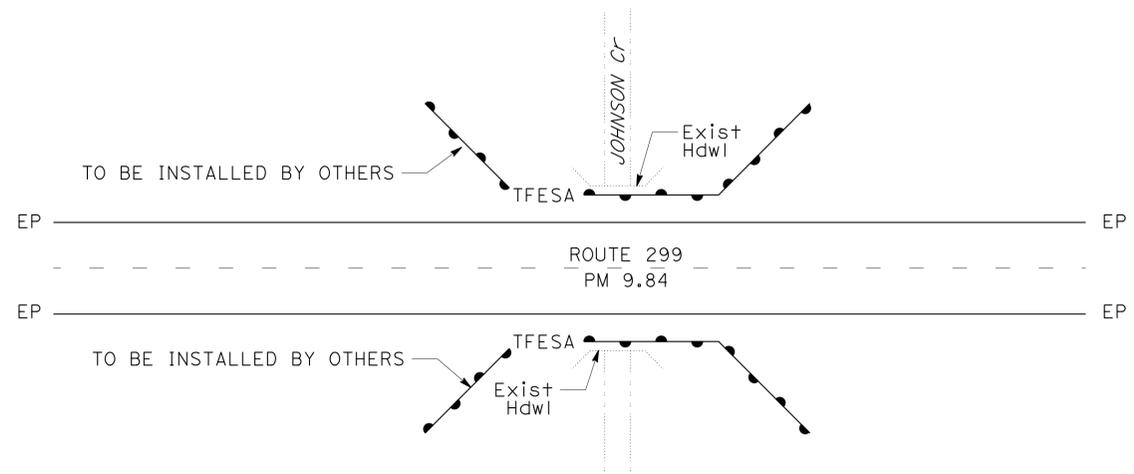
**TRANSVERSE JOINT
TEMPORARY CONSTRUCTION TAPERS**
TYPICAL TEMPORARY PAVING CONFORM



MAINLINE CONFORM TAPER

PM 8.80
PM 14.70

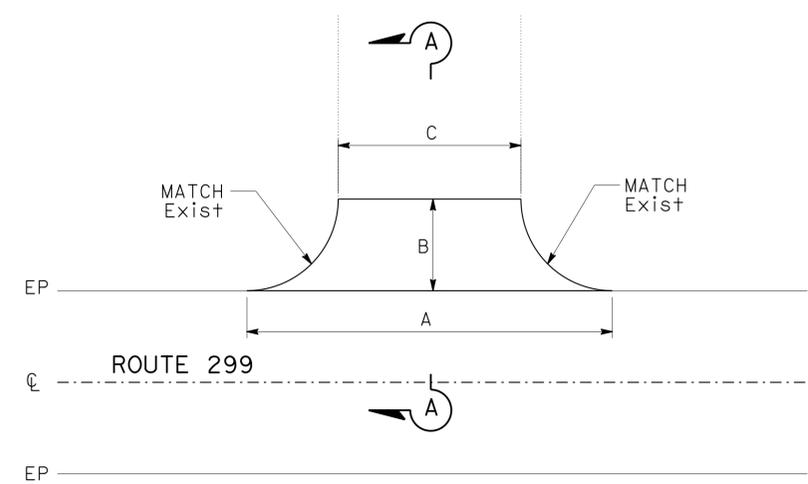
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - DEPARTMENT OF MAINTENANCE
 Et Caltrans
 FUNCTIONAL SUPERVISOR LANCE BROWN
 CALCULATED-DESIGNED BY
 CHECKED BY
 MICHAEL CONNER
 KARLIE SMITH
 REVISED BY
 DATE REVISED



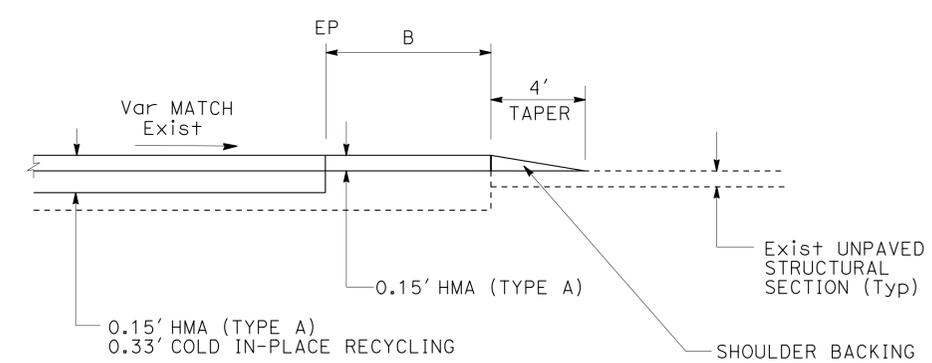
ENVIRONMENTAL SENSITIVE AREA

LEGEND:

- COLD PLANE AC PAVEMENT
- HMA TEMPORARY TAPER



PAVED ROAD CONNECTIONS



SECTION A-A

PAVED ROAD CONNECTION

TYPE	POST MILE	DIMENSIONS (LF)		
		A	B	C
TWO SPRINGS Rd - Rt	8.87	108	53	20
UNNAMED Rd - Lt	10.50	71	25	25
USFS Rd - Lt	11.36	298	10	200
CHAIN ON AREA	11.50	425	10	300
COUNTY Rd 85 - Lt	14.60	110	25	40

CONSTRUCTION DETAILS

NO SCALE

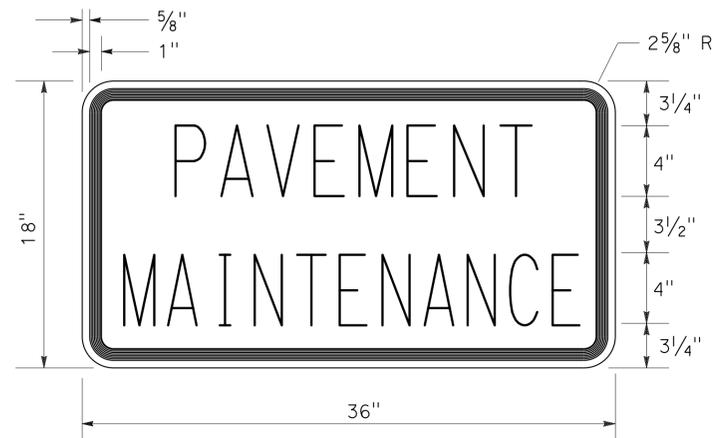
C-1

LAST REVISION: DATE PLOTTED => 21-MAR-2013
 03-19-13 TIME PLOTTED => 07:09

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Mod	299	8.8/14.7	4	12
			03-20-13	DATE	
			03-20-13	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>					

NOTES:

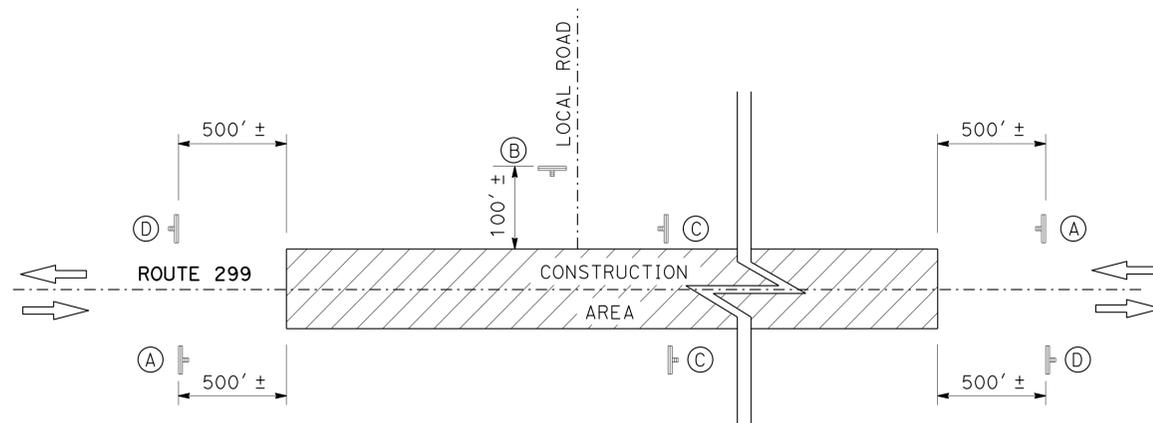
1. EXACT LOCATION OF ALL SIGNS TO BE DETERMINED BY THE ENGINEER.
2. CALIFORNIA CODES ARE DESIGNATED BY (CA), OTHERWISE FEDERAL CODES ARE SHOWN.
3. INTERMEDIATE G20-1 SIGNS SHOULD BE PLACED EVERY 3 TO 5 MILES AS NECESSARY.
4. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.



C23B(CA) SIGN PANEL DETAIL

ROAD CONNECTIONS

PM	DESCRIPTION	(B)
8.87	TWO SPRINGS Rd	R+
8.95	DIRT Rd	L+
9.43	USFS Rd	R+
10.43	USFS Rd	R+
10.50	UNNAMED Rd	L+
11.36	USFS Rd	L+
12.64	USFS Rd 41N09	L+
12.87	USFS Rd 41N09	L+
13.73	USFS Rd 41N24	L+
14.60	COUNTY Rd 85	L+



CONSTRUCTION AREA SIGNS (STATIONARY MOUNTED)

CONSTRUCTION AREA SIGNS (STATIONARY MOUNTED)

TYPE	CODE	PANEL SIZE	SIGN MESSAGE	NUMBER AND SIZE OF POST	No. OF SIGNS
(A)	G20-1 C23B(CA)	36" x 18"	ROAD WORK NEXT XX MILES PAVEMENT MAINTENANCE	1-4" x 6"	2
(B)	W20-1	48" x 48"	ROAD WORK AHEAD	1-4" x 6"	10
(C)	G20-1	36" x 18"	ROAD WORK NEXT XX MILES	1-4" x 4"	2
(D)	G20-2	36" x 18"	END ROAD WORK	1-4" x 4"	2

CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Michael Conner
 Karlie Smith
 Lance Brown
 MAINTENANCE

P:\proj\1102\46130\plans\pse\24g1301a001.dgn
 03-19-13 07:09

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Mod	299	8.8/14.7	5	12

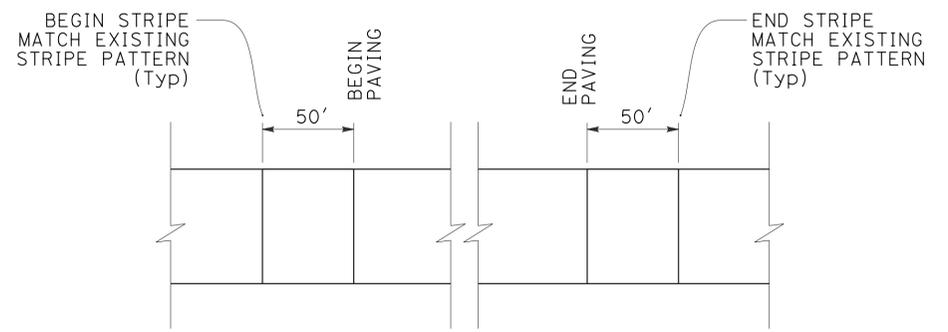
03-20-13
 REGISTERED CIVIL ENGINEER DATE
 03-20-13
 PLANS APPROVAL DATE

MICHAEL CONNER
 No. C73123
 Exp. 12-31-14
 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:

- (N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY
- EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.



TRAFFIC STRIPE MATCH DETAIL

THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)

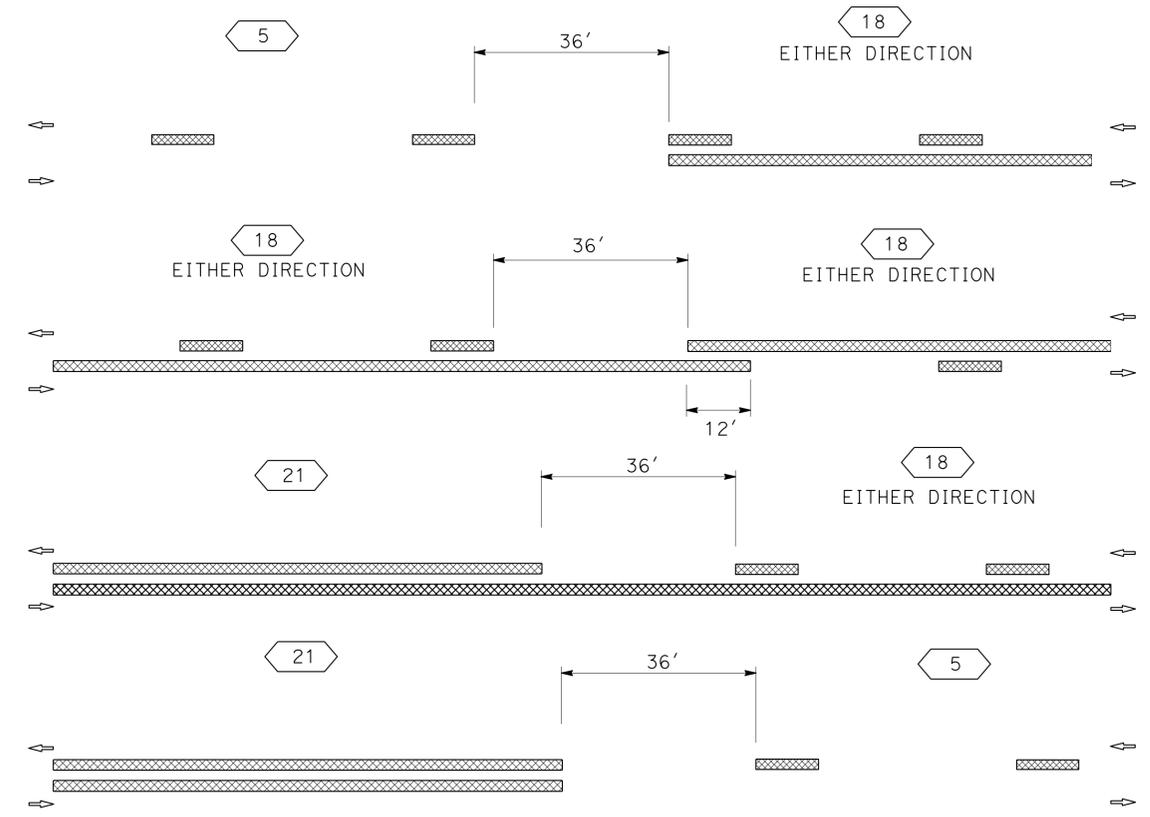
POSTMILE LIMITS	DETAIL 5	DETAIL 18	DETAIL 21	DETAIL 27B	DETAIL 27C
	LF	LF	LF	LF	LF
8.80-14.70	8554	6548	16,052	61,407	898
TOTAL	93,459				

REMOVE THERMOPLASTIC PAVEMENT MARKING

PM	L+	R+	(N) EA	SQFT	REMARKS
14.60	X		1	22.0	ROAD CONNECTION LIMIT LINE
TOTAL				22.0	

THERMOPLASTIC PAVEMENT MARKING

PM	L+	R+	(N) EA	SQFT	REMARKS
14.60	X		1	22.0	ROAD CONNECTION LIMIT LINE
14.60	X		1	24.0	STOP
TOTAL				46.0	



TYPICAL STRIPE TRANSITION DETAILS

PAVEMENT DELINEATION DETAILS AND QUANTITIES

NO SCALE

PDQ-1

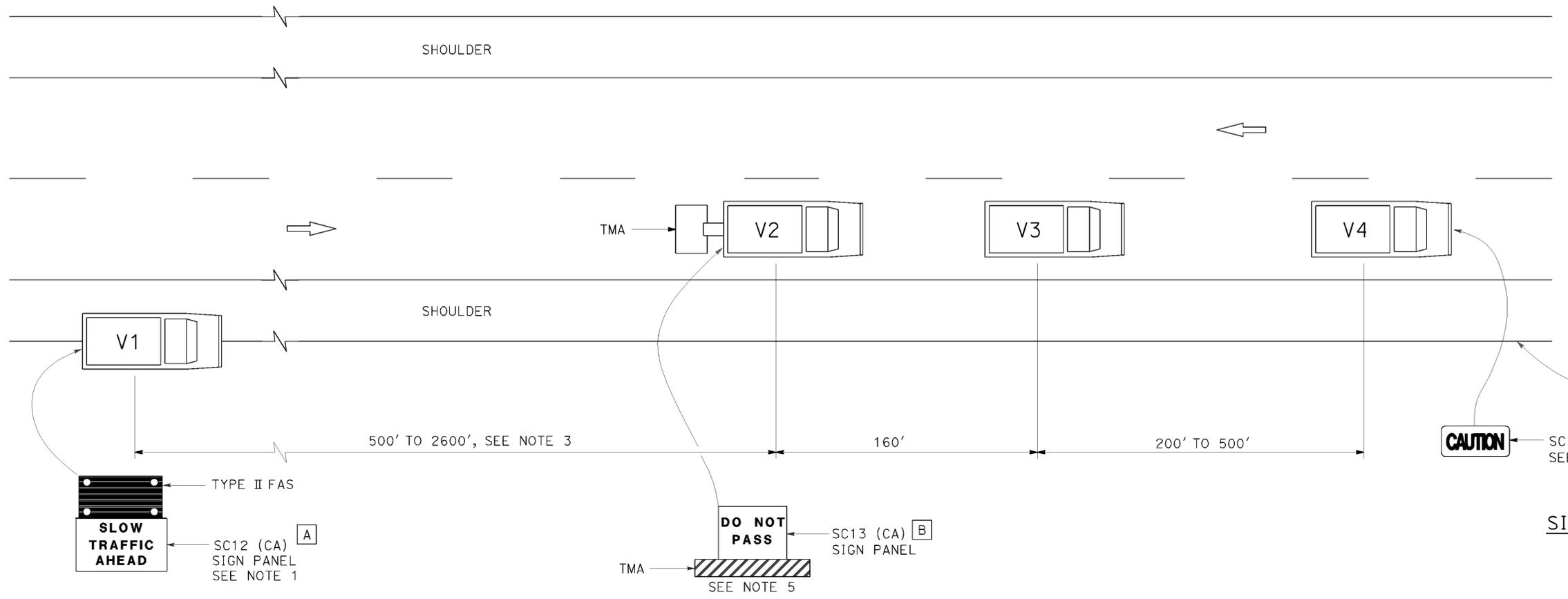
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 MAINTENANCE
 Et Caltrans
 FUNCTIONAL SUPERVISOR: LANCE BROWN
 CALCULATED/DESIGNED BY: MICHAEL CONNER
 CHECKED BY: KARLIE SMITH
 REVISED BY: MICHAEL CONNER
 DATE REVISED:

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Mod	299	8.8/14.7	8	12

Gurinderpal Bhullar
 REGISTERED CIVIL ENGINEER DATE 12-7-12
 03-20-13
 PLANS APPROVAL DATE

Gurinderpal Bhullar
 No. C48815
 Exp. 9-30-14
 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.



SIGN PANEL SIZE (Min)

A	72" x 42"
B	54" x 42"
C	54" x 24"

LEGEND

- V1 SIGN VEHICLE
- V2 SHADOW VEHICLE
- V3 WORK/APPLICATION VEHICLE
- V4 SIGN VEHICLE
- TMA TRUCK-MOUNTED ATTENUATOR
- FLASHING ARROW SIGN (FAS) IN FLASHING CAUTION MODE

NOTES:

1. Either a changeable message sign or a SC12 (CA) "SLOW TRAFFIC AHEAD" sign shall be mounted on the rear of sign vehicle V1. A Type II flashing arrow sign may be used with the SC12 (CA) sign panel.
2. Sign vehicle V1 should be positioned where highly visible when shoulders are not available.
3. If traffic queues develop, sign vehicle V1 should be positioned upstream from the end of queue.
4. Vehicle-mounted sign panels shall be Type III, IV, VII, VIII or IX retroreflective sheeting, black on white, black on orange, or black on fluorescent orange, with 6" minimum series D letters per Caltrans sign specifications.
5. Gross Vehicle Weight of shadow vehicle shall be a minimum of 20,000 pounds and shall be equipped with a truck-mounted attenuator. The sign panel shown shall be mounted on the rear of shadow vehicle V2. The message "LANE CLOSED" may be used in place of the "DO NOT PASS" message.
6. The sign panel shown shall be mounted on the front of sign vehicle V4, facing opposing traffic.
7. All vehicles shall be equipped with flashing or rotating amber lights.
8. Sign vehicle V4 will not be required when the work and vehicles V2 and V3 are 2' or more from the centerline of the highway during the work or application operations.
9. All vehicles used for lane closures shall be equipped with two-way radios and the vehicle operators shall maintain communication during the work or application operation.
10. When multiple work vehicles are used in close proximity to each other, only one shadow vehicle is required and spacing between work vehicles shall be minimized in order to deter traffic from entering the closed lane.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
 FOR MOVING LANE CLOSURE
 ON TWO LANE HIGHWAYS**

NO SCALE

TCS-2

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 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Gurinderpal Bhullar
 LANCE BROWN
 LANCE BROWN
 DESIGN

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	Mod	299	8.8/14.7	9	12

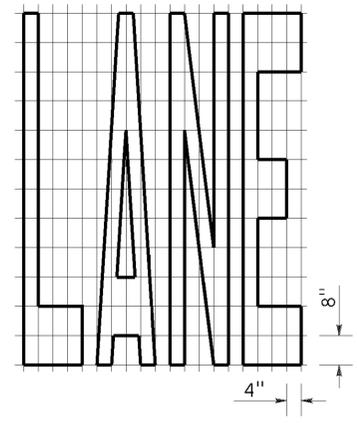
Registered Professional Engineer
 Roberto L. McLaughlin
 No. C40375
 Exp. 3-31-13
 CIVIL
 STATE OF CALIFORNIA

July 20, 2012
 PLANS APPROVAL DATE

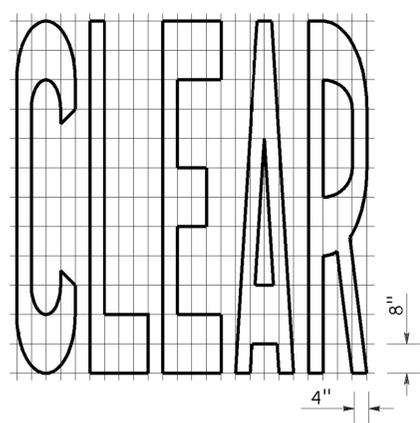
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

TO ACCOMPANY PLANS DATED 03-20-13

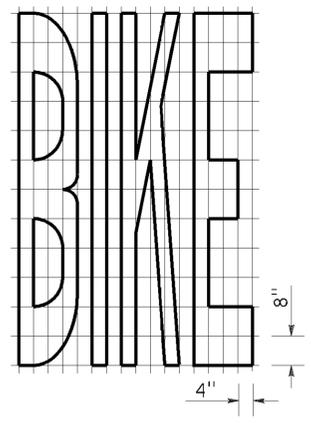
2010 REVISED STANDARD PLAN RSP A24E



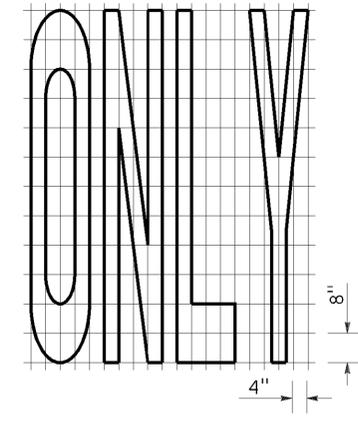
A=24 ft²



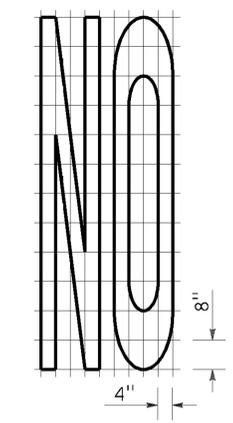
A=27 ft²



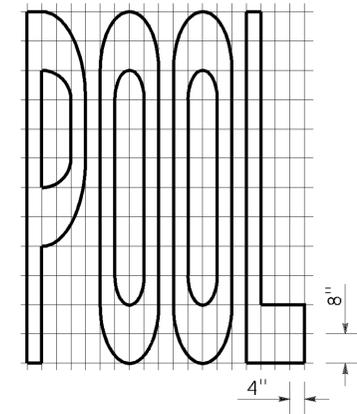
A=21 ft²



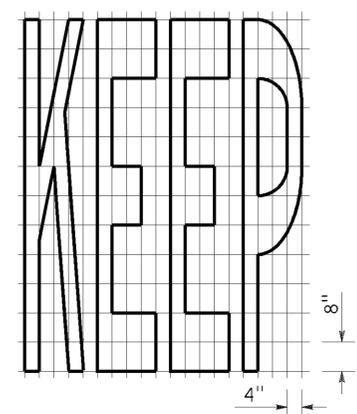
A=22 ft²



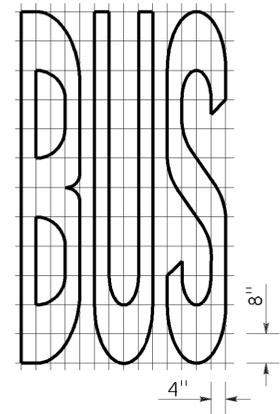
A=14 ft²



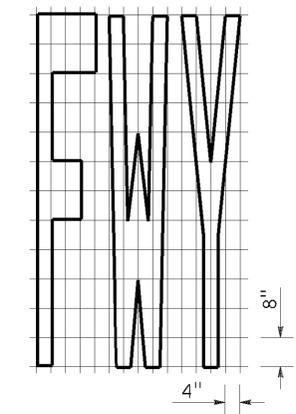
A=23 ft²



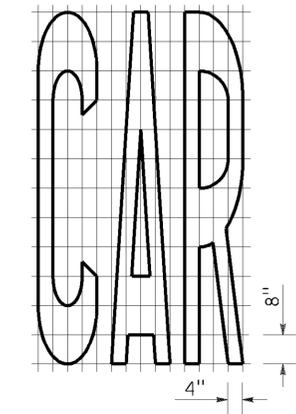
A=24 ft²



A=20 ft²

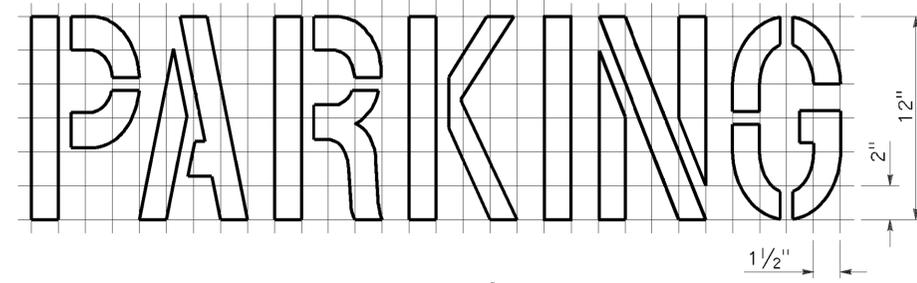
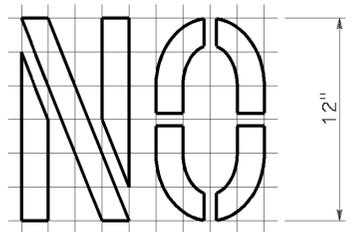


A=16 ft²

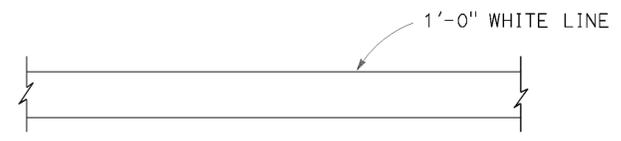


A=17 ft²

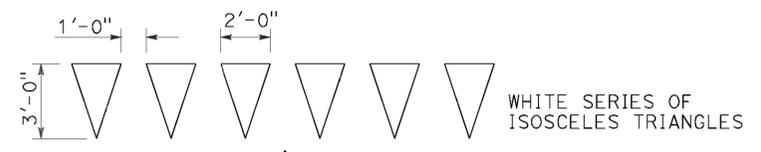
WORD MARKINGS			
ITEM	ft ²	ITEM	ft ²
LANE	24	NO	14
POOL	23	BIKE	21
CAR	17	BUS	20
CLEAR	27	ONLY	22
KEEP	24	FWY	16



A=2 ft²
See Notes 6 and 7



LIMIT LINE (STOP LINE)



DIRECTION OF TRAVEL
YIELD LINE

NOTES:

- If a message consists of more than one word, it should read "UP", i.e., the first word should be nearest the driver.
- 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.
- Minor variations in dimensions may be accepted by the Engineer.
- Portions of a letter, number or symbol may be separated by connecting segments not to exceed 2" in width.
- The words "NO PARKING" pavement marking is to be used for parking facilities. For typical locations of markings, see Standard Plans A90A and A90B.
- 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 20, 2011 - PAGE 17 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A24E

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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	Mod	299	8.8/14.7	10	12

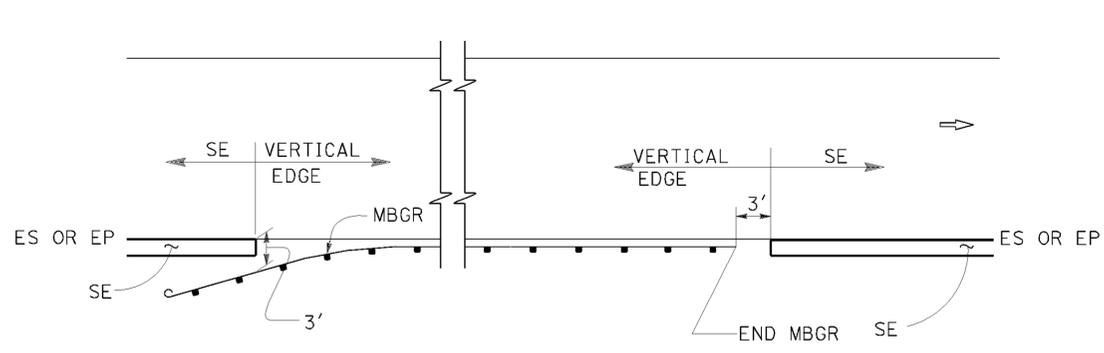
REGISTERED CIVIL ENGINEER
 Cornelis M. Hakim
 No. C55610
 Exp. 12-31-12
 CIVIL
 STATE OF CALIFORNIA

January 20, 2012
 PLANS APPROVAL DATE

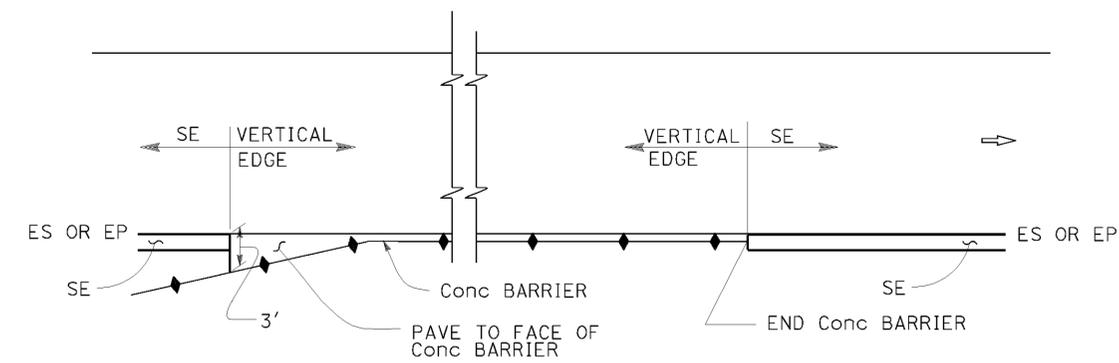
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

TO ACCOMPANY PLANS DATED 03-20-13

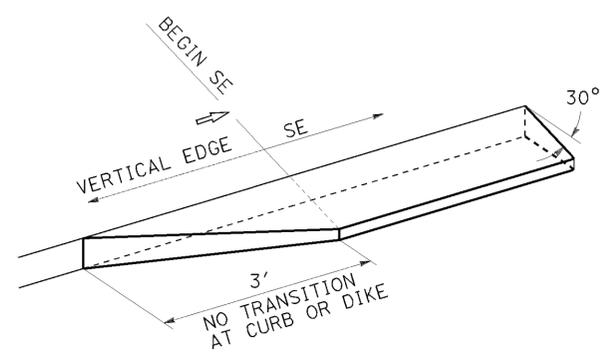
ABBREVIATIONS:
SE SAFETY EDGE



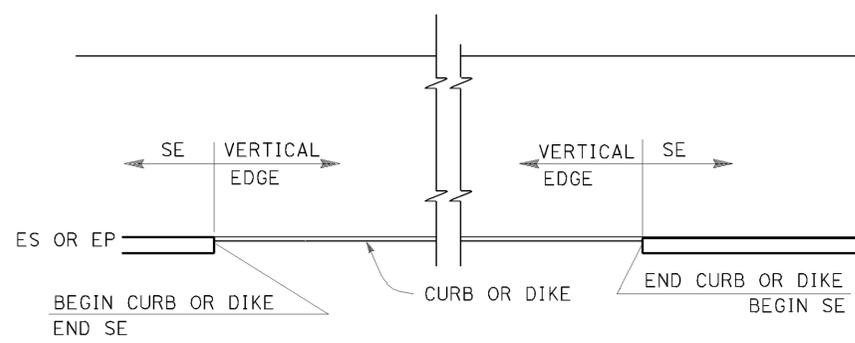
MBGR



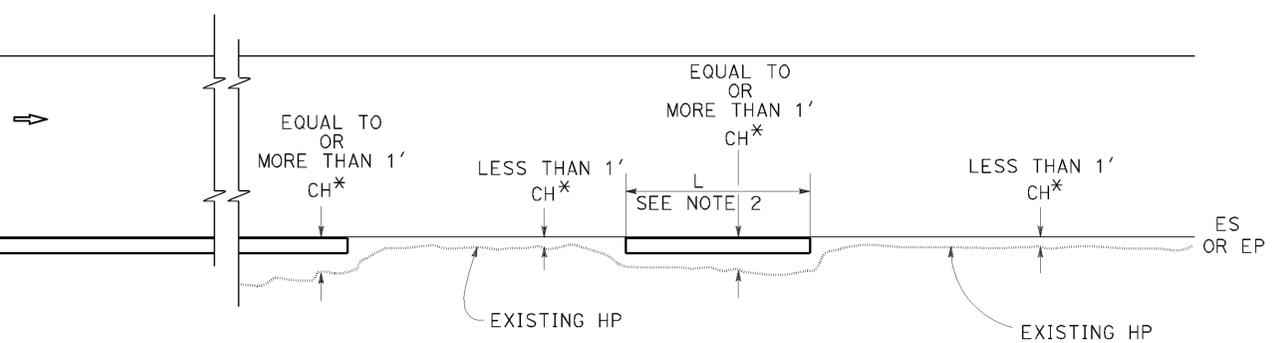
CONCRETE BARRIER



TRANSITION DETAIL FOR CONCRETE ONLY

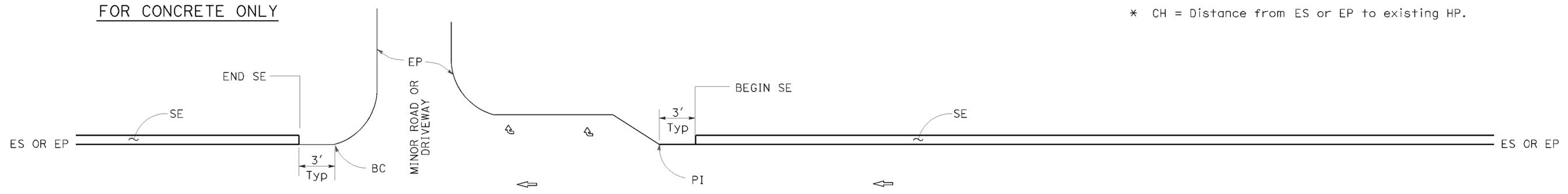


CURB OR DIKE



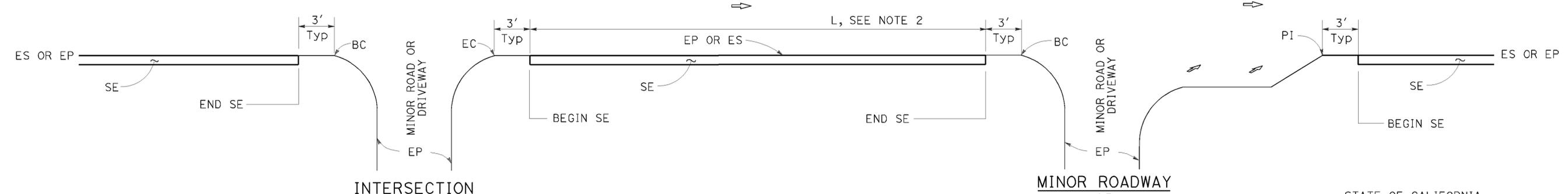
NARROW SIDE SLOPE

* CH = Distance from ES or EP to existing HP.



STATE ROUTE

STATE ROUTE



INTERSECTION

DRIVEWAY AND INTERSECTION

MINOR ROADWAY OR DRIVEWAY

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT EDGE TREATMENTS

NO SCALE

RSP P74 DATED JANUARY 20, 2012 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

- NOTES:**
1. For details not shown, see Revised Standard Plans RSP P75 and RSP P76.
 2. Safety edge is optional when L is less than 30'.

REVISED STANDARD PLAN RSP P74

2010 REVISED STANDARD PLAN RSP P74

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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	Mod	299	8.8/14.7	11	12

REGISTERED CIVIL ENGINEER
 Cornelis M. Hakim
 No. C55610
 Exp. 12-31-12
 CIVIL
 STATE OF CALIFORNIA

January 20, 2012
 PLANS APPROVAL DATE

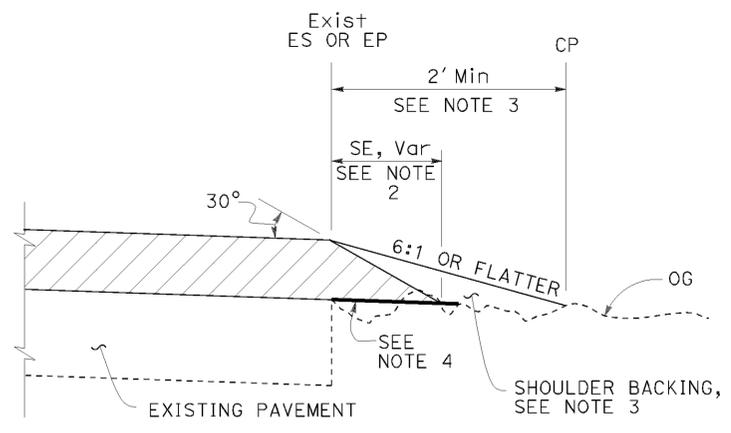
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

TO ACCOMPANY PLANS DATED 03-20-13

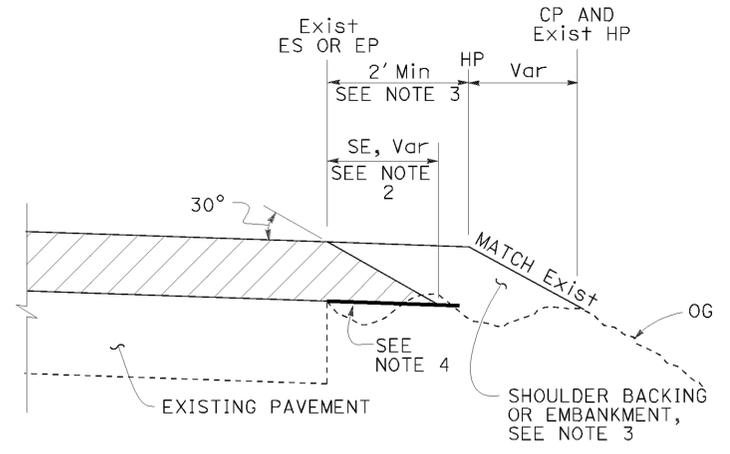
ADDITIONAL HMA OR CONCRETE QUANTITIES FOR SE/SIDE/MILE

TYPICAL CROSS SECTION	TT	TOTAL ADDITIONAL MATERIAL FOR SE/SIDE/MILE		
		HMA (TON)	CONCRETE (CY)*	CONCRETE (CY)**
	0.15'	NA	NA	NA
	0.20'	13.7	NA	NA
	0.30'	30.9	NA	NA
	0.40'	54.9	NA	NA
	0.45'	69.4	NA	NA
	0.50'	84.2	NA	NA
	0.60'	113.9	NA	NA
	0.70'	143.6	70.9	94.2
	0.80'	173.3	85.6	112.2
	0.90'	203.0	100.3	130.2
	1.00'	232.7	114.9	148.2
	1.10'	262.4	129.6	166.2
1.20'	292.1	144.3	184.2	

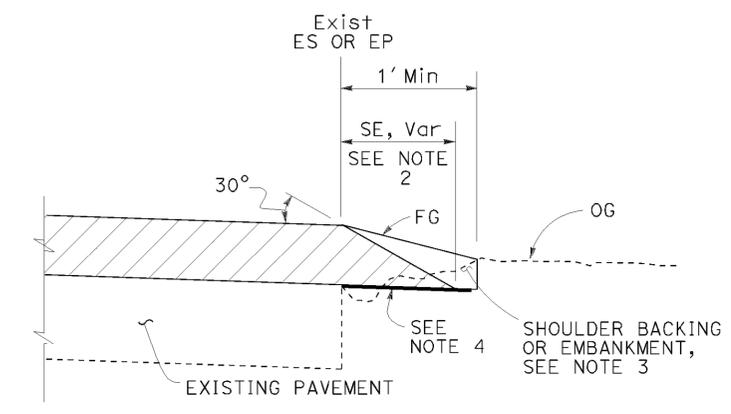
* For Detail "A"
 ** For Optional Detail "A"



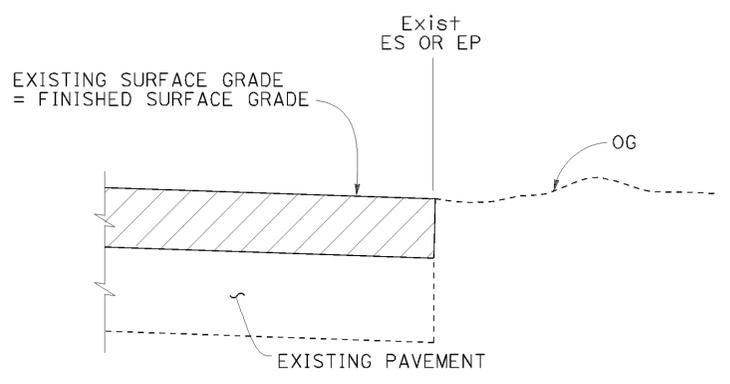
CASE A
Safety Edge



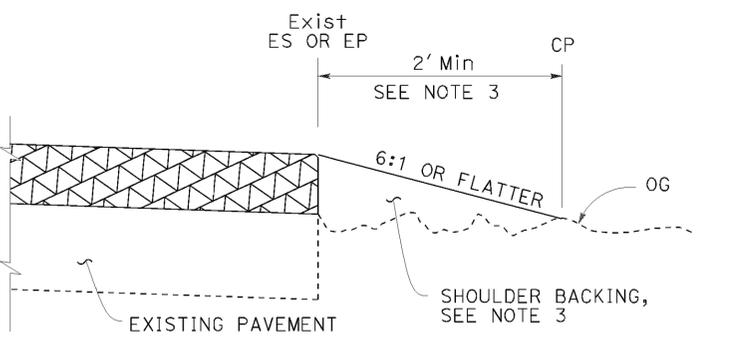
CASE B
Safety Edge



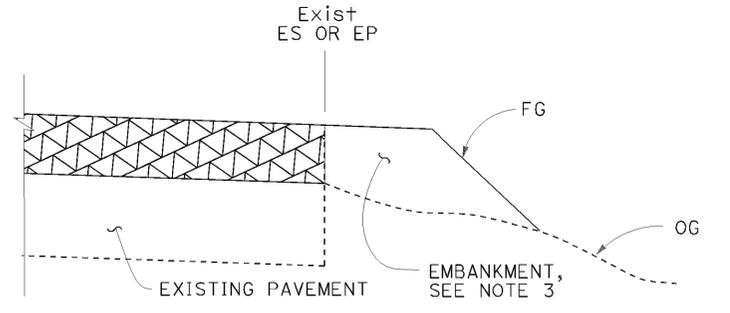
CASE C
Safety Edge



CASE D
Vertical Edge



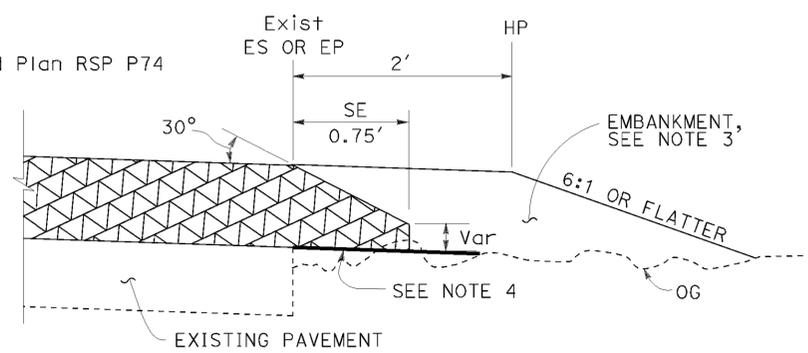
CASE E
Vertical Edge



CASE F
Vertical Edge

* See Table A and Revised Std Plan RSP P74

- NOTES:**
- For limits of safety edge and vertical edge treatments, see Revised Standard Plan RSP P74.
 - Details shown for HMA overlay thickness less than 0.43'. See Detail "A" for HMA overlay thickness more than 0.43' or concrete overlay.
 - For locations and limits of shoulder backing or embankment see project plans.
 - Grade existing ground to place safety edge. 1' minimum width
 - Safety edge transverse joint must match overlay transverse joint. End of #6 longitudinal bar must be 2" ± 1/2" clear from transverse joint.
 - Safety edge is not needed in the area of MBGR, barrier, right turn lane and acceleration lane. See Revised Standard Plan RSP P74.



DETAIL "A"

For HMA overlay thickness more than 0.43' or concrete overlay

LEGEND:

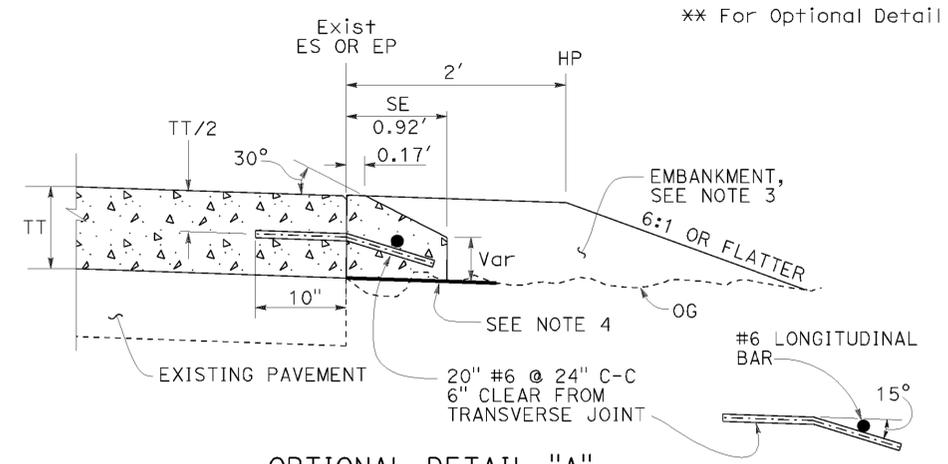
- HMA OVERLAY
- HMA OR CONCRETE OVERLAY
- CONCRETE OVERLAY

ABBREVIATIONS:

- SE SAFETY EDGE
- TT TOTAL THICKNESS OF SE

TABLE A
EDGE TREATMENT FOR VARIOUS OVERLAY THICKNESS AND CONDITIONS

FIELD CONDITION	OVERLAY THICKNESS	
	LESS THAN 0.15'	0.15' OR MORE
Exist SLOPE 6:1 OR FLATTER	CASE E	CASE A
Exist SLOPE 3:1 TO 6:1	CASE E	CASE B
Exist SLOPE STEEPER THAN 3:1	CASE F	CASE F
CUT SECTION (REPLACE, COLD PLANE, MILL PAVEMENT)	CASE D	CASE C



OPTIONAL DETAIL "A"
For concrete overlay
See Note 5

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
PAVEMENT EDGE TREATMENTS - OVERLAYS
 NO SCALE

RSP P75 DATED JANUARY 20, 2012 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP P75

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2010 REVISED STANDARD PLAN RSP P75

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	Mod	299	8.8/14.7	12	12

 REGISTERED CIVIL ENGINEER		
January 20, 2012 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>		

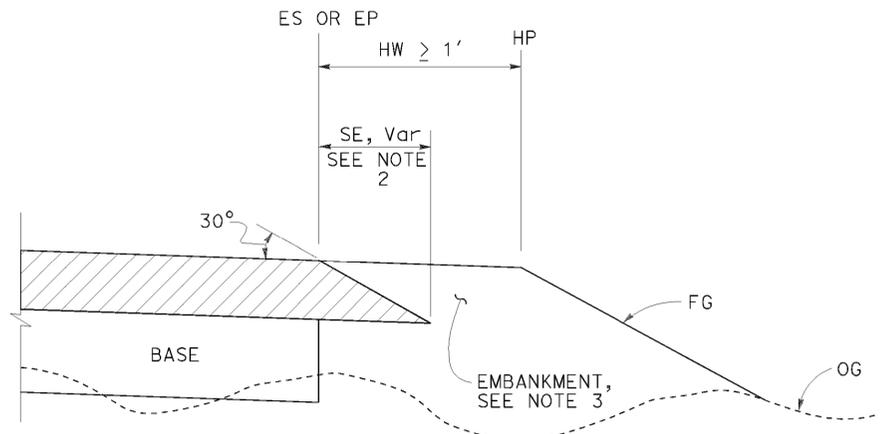
LEGEND:

-  HMA PAVEMENT
-  HMA OR CONCRETE PAVEMENT
-  CONCRETE PAVEMENT

ABBREVIATIONS:

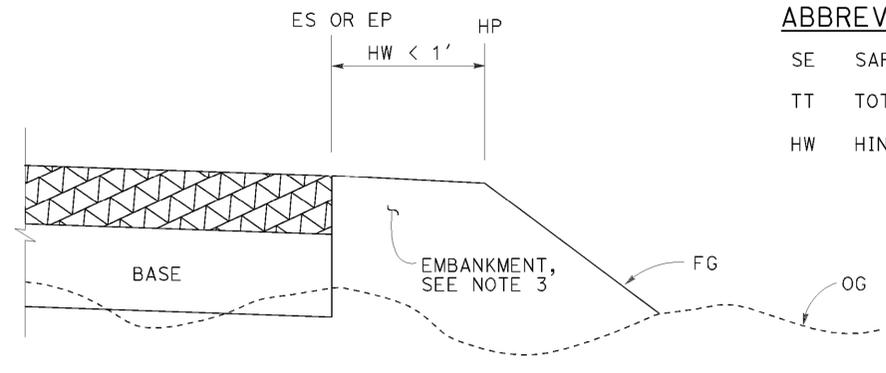
- SE SAFETY EDGE
- TT TOTAL THICKNESS OF SE
- HW HINGE WIDTH, DISTANCE FROM ES OR EP TO HP

TO ACCOMPANY PLANS DATED 03-20-13



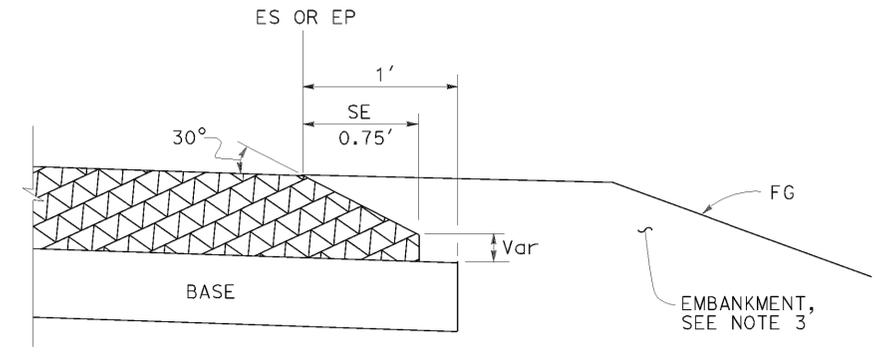
CASE K

Safety Edge - Fill Section, HW $\geq 1'$



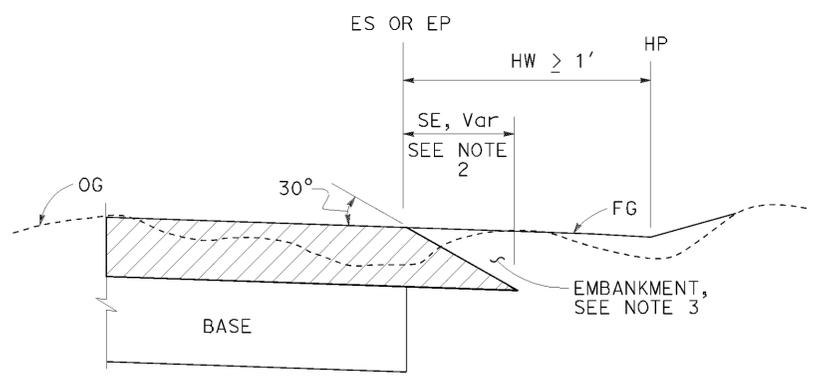
CASE L

Vertical Edge - Fill Section, HW $< 1'$



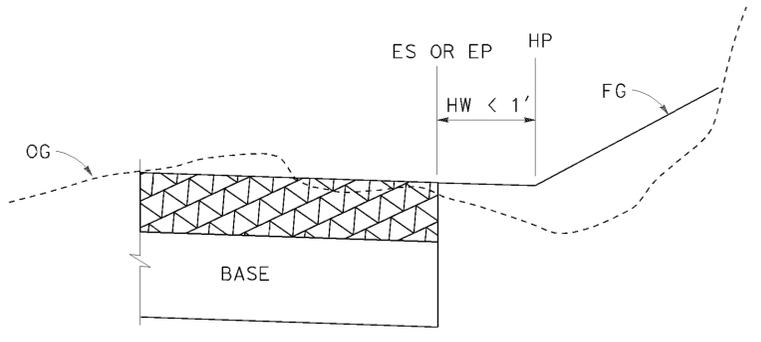
DETAIL "B"

For HMA pavement thickness more than 0.43' or concrete pavement



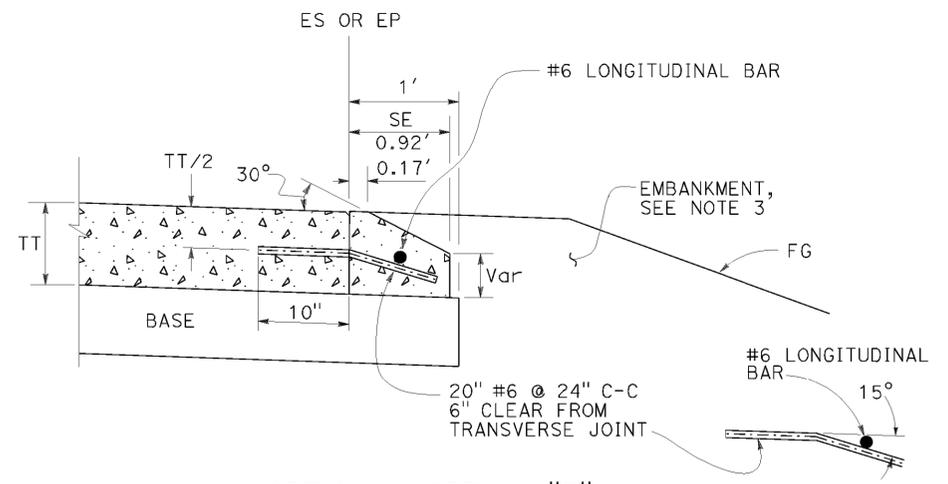
CASE M

Safety Edge - Cut Section, HW $\geq 1'$



CASE N

Vertical Edge - Cut Section, HW $< 1'$



OPTIONAL DETAIL "B"

For concrete pavement See Note 4

FILL SECTION

CUT SECTION

NOTES:

- For limits of safety edge and vertical edge treatments, see Revised Standard Plan RSP P74
- Details shown for HMA pavement thickness less than 0.43'. See Detail "B" for HMA pavement thickness more than 0.43' or concrete pavement.
- For locations and limits of embankment see project plans.
- Safety edge transverse joint must match pavement transverse joint. End of #6 longitudinal bar must be 2" $\pm 1/2$ " clear from transverse joint.
- Safety edge is not needed in the area of MBGR, barrier, right turn lane and acceleration lane. See Revised Standard Plan RSP P74.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**PAVEMENT EDGE TREATMENTS-
NEW CONSTRUCTION**
NO SCALE

RSP P76 DATED JANUARY 20, 2012 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP P76

2010 REVISED STANDARD PLAN RSP P76

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