

INDEX OF PLANS

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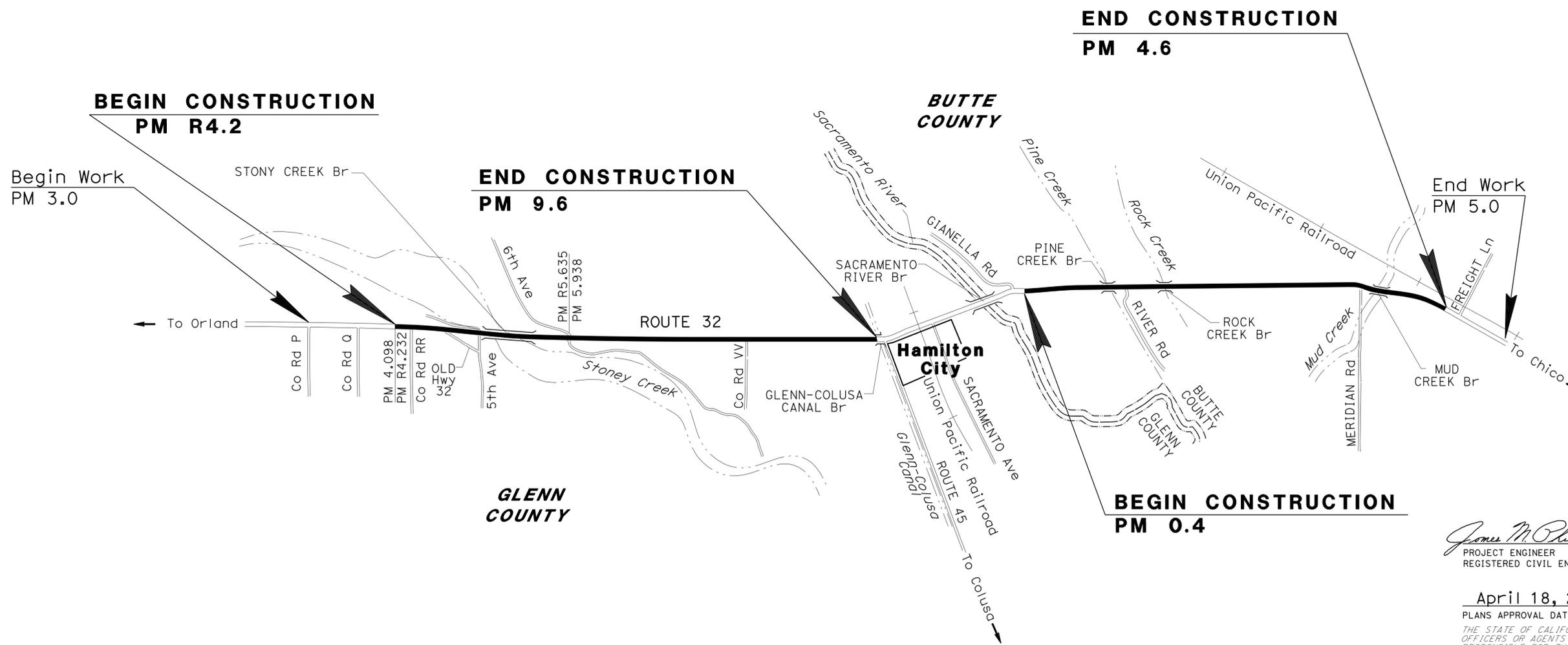
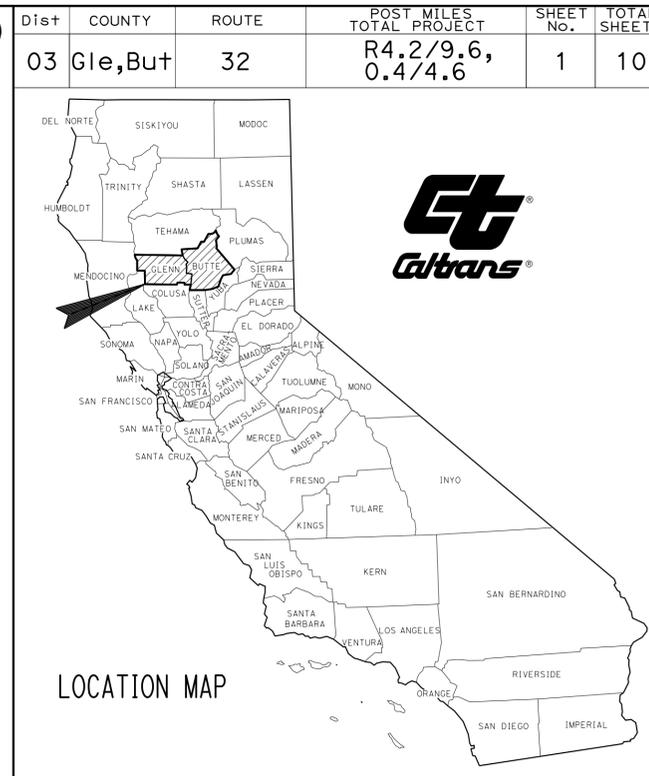
THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

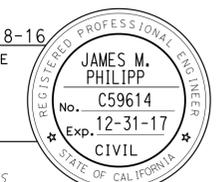
ACHSNH-P032(045)

PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN GLENN AND BUTTE COUNTIES FROM 0.4 MILE WEST
OF COUNTY ROAD RR TO GLENN-COLUSA CANAL BRIDGE
AND FROM 0.1 MILE EAST OF GIANELLA ROAD
TO 0.3 MILE WEST OF FREIGHT LANE

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010



James M. Philipp 4-18-16
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER
April 18, 2016
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.



PROJECT MANAGER
NAJED DAKAK
DESIGN MANAGER
MIKE HAGEN

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

NO SCALE

DATE PLOTTED => 20-APR-2016 TIME PLOTTED => 11:11

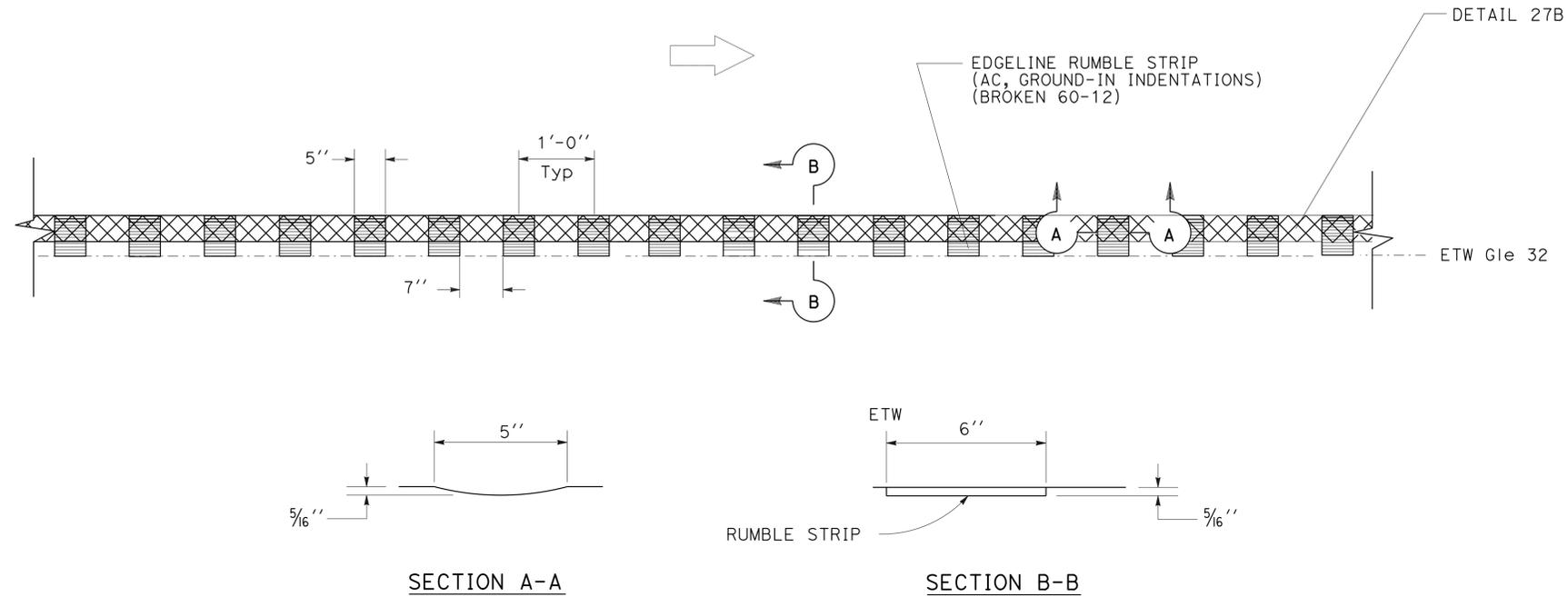
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Gle,But	32	R4.2/9.6, 0.4/4.6	2	10

<i>James M. Philipp</i>	4-18-16
REGISTERED CIVIL ENGINEER	DATE
4-18-16	
PLANS APPROVAL DATE	

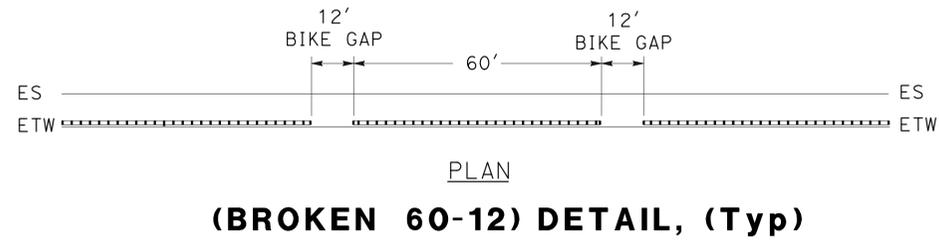
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. EDGELINE RUMBLE STRIP AS SHOWN ON THE PLANS WILL CONTINUE THROUGH LOCATIONS WITH PRIVATE DRIVEWAYS UNLESS OTHERWISE NOTED ON THE PLANS.
2. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
3. EDGELINE RUMBLE STRIP MUST BE CONSTRUCTED PRIOR TO INSTALLING FINAL TRAFFIC STRIPES.



EDGELINE RUMBLE STRIP (AC, GROUND-IN INDENTATIONS) (BROKEN 60-12)



CONSTRUCTION DETAILS

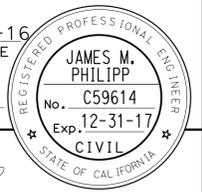
NO SCALE

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	REVISOR	DATE
Caltrans	MICHAEL HAGEN	JAMES PHILIPP	
TRAFFIC SAFETY		DAVINDER MINHAS	
	CHECKED BY	DESIGNED BY	

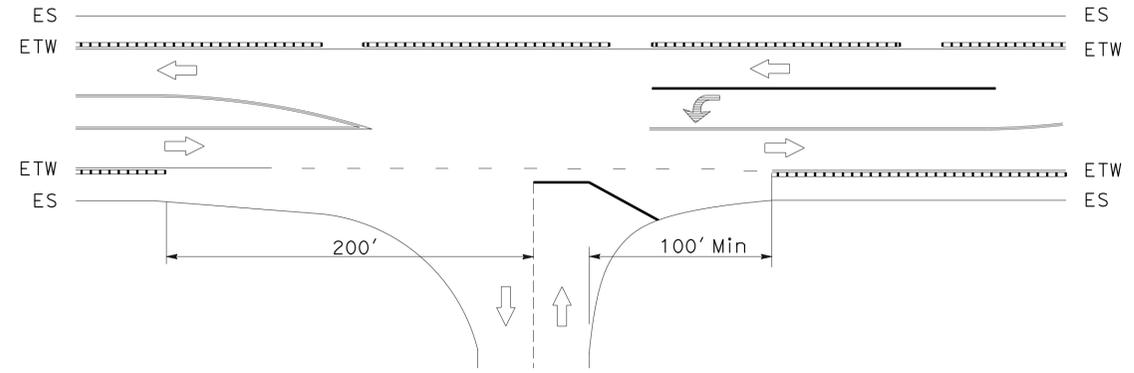


Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Gle,But	32	R4.2/9.6, 0.4/4.6	3	10
<i>James M. Philipp</i> REGISTERED CIVIL ENGINEER DATE 4-18-16			4-18-16 PLANS APPROVAL DATE		
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					



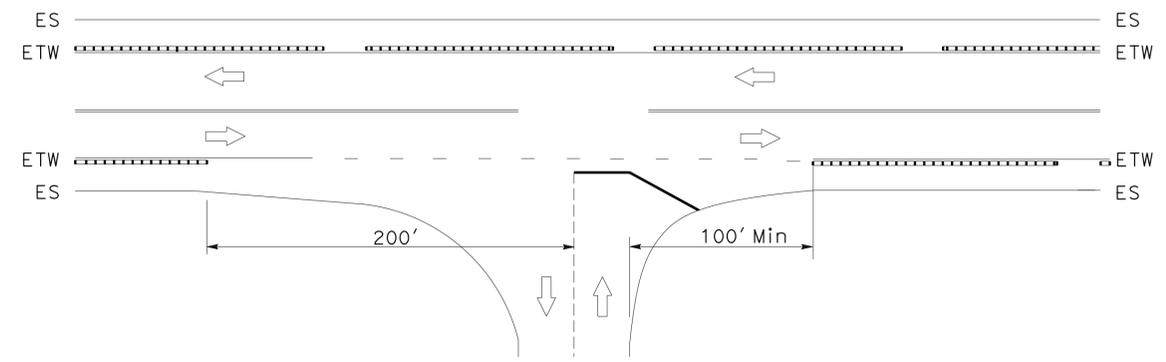
LEGEND:

----- SHOULDER RUMBLE STRIP
 (AC, GROUND-IN INDENTATIONS) (BROKEN 60-12)
 OR EDGELINE RUMBLE STRIP
 (AC, GROUND-IN INDENTATIONS) (BROKEN 60-12)



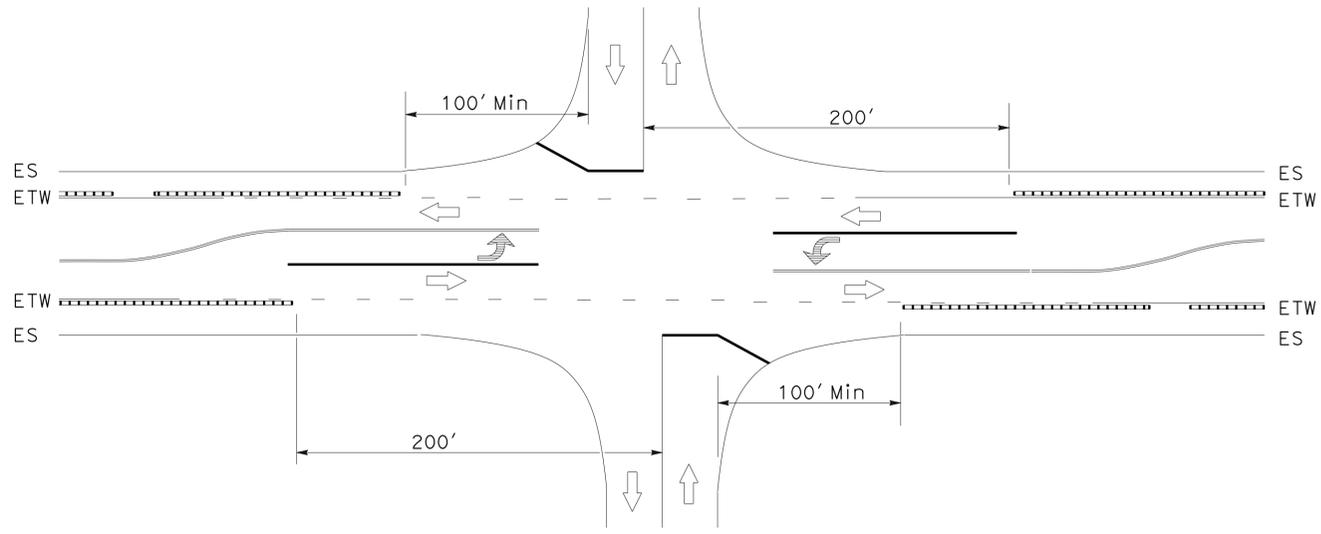
SINGLE TURN POCKET, (Typ)

Gle 32: Co Rd RR (PM R4.59) 5TH Ave (PM R5.09) But 32: RIVER Rd (PM 1.46) HAMILTON NORD CANA Hwy (PM 2.16)



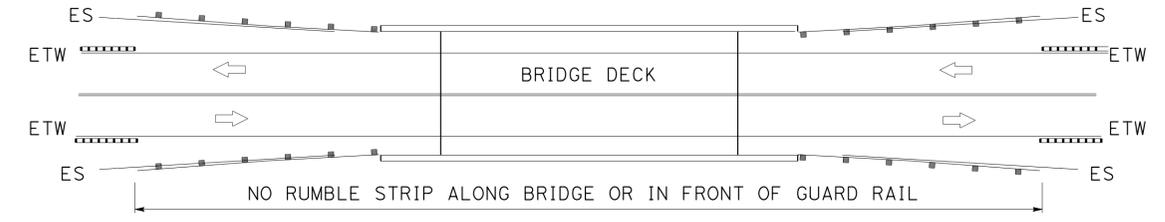
T-INTERSECTION APPROACH, (Typ)

Gle 32: 6TH Ave (PM R5.64) Co Rd VV (PM 7.60)



DUAL TURN POCKETS, (Typ)

Gle 32: OLD HIGHWAY 32 (PM R4.73) But 32: MERIDIAN Rd (PM 4.17)



BRIDGES, (Typ)

- | | |
|---|---|
| Gle 32: STONY Cr Br No. 11-0029 (PM R5.23) | BUT 32: ROCK Cr Br No. 12-0049 (PM 2.08) |
| GLENN-COLUSA CANAL Br No. 11-0028 (PM 9.60) | ROCK Cr OVERFLOW Br No. 12-0048 (PM 2.34) |
| | ROCK Cr OVERFLOW Br No. 12-0047 (PM 2.41) |
| | BOX CULVERT (PM 2.96) |
| But 32: PINE Cr LAGOON Br No. 12-0053 (PM 1.39) | BOX CULVERT (PM 3.56) |
| PINE Cr OVERFLOW Br No. 12-0203 (PM 1.63) | GABLE DRAW Br No. 12-0046 (PM 3.74) |
| PINE Cr OVERFLOW Br No. 12-0051 (PM 1.75) | BOX CULVERT (PM 4.04) |
| KUSAL SLOUGH Br No. 12-0050 (PM 1.97) | BOX CULVERT (PM 4.10) |
| | MUD Cr Br No. 12-0045 (PM 4.38) |

CONSTRUCTION DETAILS

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 TRAFFIC SAFETY
 FUNCTIONAL SUPERVISOR: MICHAEL HAGEN
 CALCULATED/DESIGNED BY: JAMES PHILIPP
 CHECKED BY: DAVINDER MINHAS
 REVISED BY: [blank] DATE REVISED: [blank]

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Gle,But	32	R4.2/9.6, 0.4/4.6	4	10

4-18-16
 REGISTERED CIVIL ENGINEER DATE
 4-18-16
 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.

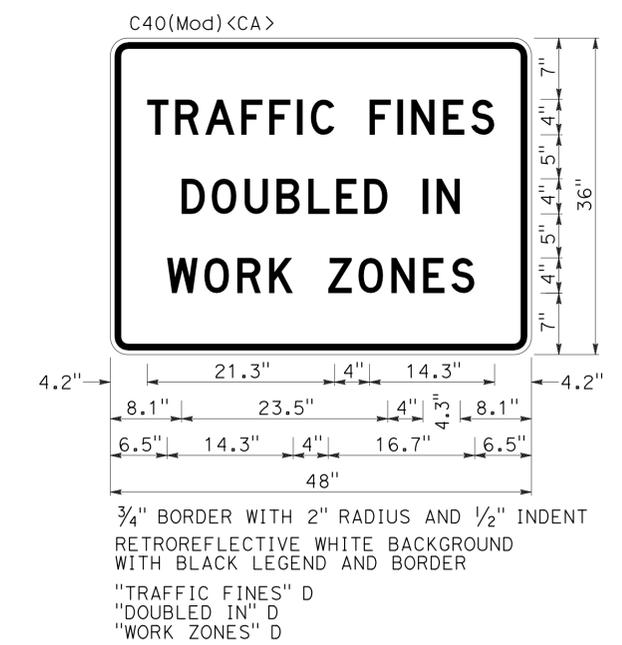
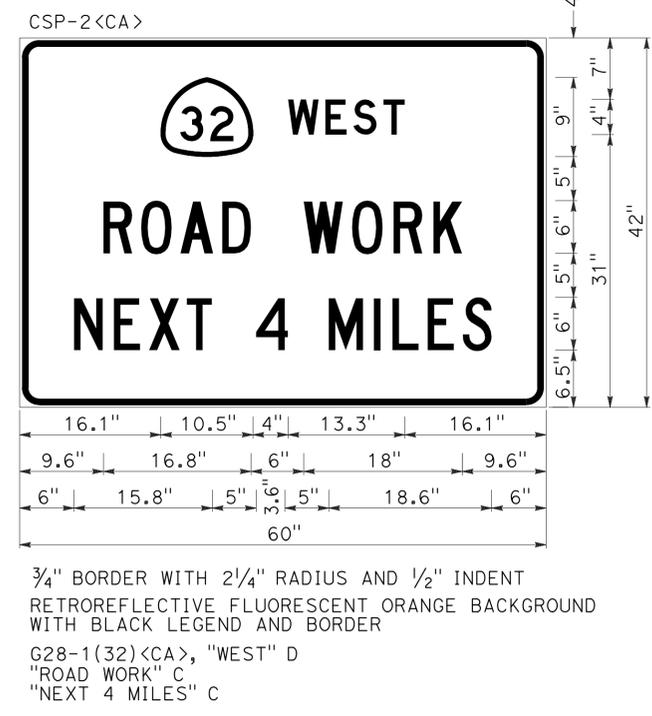
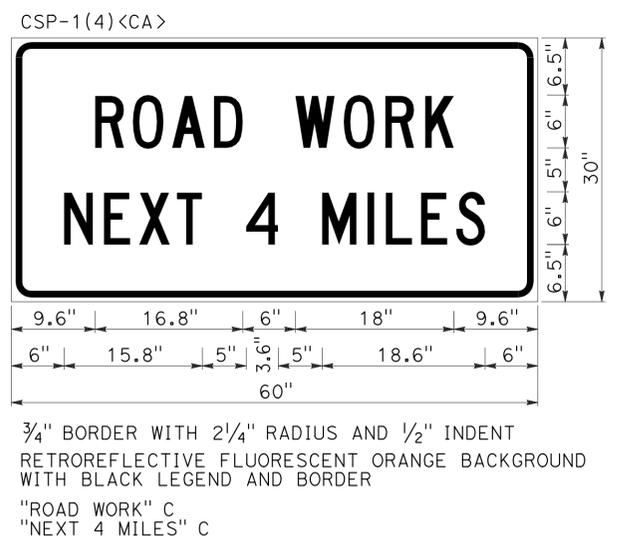
REGISTERED PROFESSIONAL ENGINEER
 ALEX WIN WU
 No. C77266
 Exp. 6-30-17
 CIVIL
 STATE OF CALIFORNIA

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

COUNTY AND ROUTE	SIGN LOCATION				SIGN CODE	PANEL SIZE	SIGN MESSAGE	NUMBER OF POST AND SIZE	NUMBER OF SIGNS	
	DESCRIPTION	FACING TRAFFIC								
		NB	SB	EB						WB
Gle-32	POSTMILE R5.12 ±			1		CSP-1(4)<CA>	60" x 30"	ROAD WORK NEXT 4 MILES	2 - 4" x 6"	1
	POSTMILE R5.12 ±				1	G20-2	36" x 18"	END ROAD WORK	1 - 4" x 4"	1
	POSTMILE R5.19 ±			1		C40(Mod)<CA>	48" x 36"	TRAFFIC FINES DOUBLED IN WORK ZONES	1 - 4" x 6"	1
	POSTMILE 9.72 ±				1	C40(Mod)<CA>	48" x 36"	TRAFFIC FINES DOUBLED IN WORK ZONES	1 - 4" x 6"	1
	POSTMILE 9.72 ±			1		G20-2	36" x 18"	END ROAD WORK	1 - 4" x 4"	1
	POSTMILE 9.78 ±				1	CSP-1(4)<CA>	60" x 30"	ROAD WORK NEXT 4 MILES	2 - 4" x 6"	1
	ON ROUTE 45 450'± SOUTH OF THE LIMIT LINE AT INTERSECTION WITH ROUTE 32	1				CSP-2<CA>	60" x 30"	32 WEST ROAD WORK NEXT 4 MILES	2 - 4" x 6"	1
	ON ROUTE 45 450'± SOUTH OF THE LIMIT LINE AT INTERSECTION WITH ROUTE 32		1			G20-2	36" x 18"	END ROAD WORK	1 - 4" x 4"	1
	6th AVENUE		1			W20-1	36" x 36"	ROAD WORK AHEAD	1 - 4" x 6"	1
	COUNTY ROAD VV	1				W20-1	36" x 36"	ROAD WORK AHEAD	1 - 4" x 6"	1
	CANAL ROAD		1			W20-1	36" x 36"	ROAD WORK AHEAD	1 - 4" x 6"	1
	CAPAY AVENUE	1				W20-1	36" x 36"	ROAD WORK AHEAD	1 - 4" x 6"	1
LOS ROBLES AVENUE	1				W20-1	36" x 36"	ROAD WORK AHEAD	1 - 4" x 6"	1	

NOTES:

- EXACT SIGN LOCATION TO BE DETERMINED BY THE ENGINEER.
- ALL SIGN CODES SHOWN ARE FEDERAL SIGN CODES UNLESS OTHERWISE DESIGNATED AS A CALIFORNIA SIGN CODE.
- <CA> = CALIFORNIA SIGN CODE.



SIGN DETAILS

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CONSTRUCTION AREA SIGNS

CS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 TRAFFIC
 Joyce K Loftus
 Functional Supervisor
 Jack Kemmerly
 Alex Wu
 Revised By
 Date Revised
 Calculated/Designed By
 Checked By

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: JOYCE K LOFTUS
 JACK KEMMERLY
 ALEX WU
 REVISIONS: [Empty grid]
 REVISIONS: [Empty grid]

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Gle,But	32	R4.2/9.6, 0.4/4.6	5	10

REGISTERED CIVIL ENGINEER: *W. Wu*
 DATE: 4-18-16
 PLANS APPROVAL DATE: 4-18-16
 REGISTERED PROFESSIONAL ENGINEER: ALEX WIN WU
 No. C77266
 Exp. 6-30-17
 CIVIL
 STATE OF CALIFORNIA
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

PAVEMENT DELINEATION QUANTITIES

COUNTY AND ROUTE	POST MILE		DIRECTION	4" THERMOPLASTIC TRAFFIC STRIPE (EWNV)	4" THERMOPLASTIC TRAFFIC STRIPE (EWNV)(BROKEN 12-3)
	FROM	TO		DETAIL 27B	DETAIL 27C
	LINEAR FOOT			LINEAR FOOT	
Gle-32	R4.23	9.60	EB,WB	55,494	889
But-32	0.42	4.60	EB,WB	43,722	627
TOTAL				99,216	1,516

NOTE:
 EWNV = ENHANCED WET NIGHT VISIBILITY.

PAVEMENT DELINEATION QUANTITIES

PDQ-1



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Gle,But	32	R4.2/9.6, 0.4/4.6	6	10

James M. Philipp 4-18-16
 REGISTERED CIVIL ENGINEER DATE

4-18-16
 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.

NOTE: 1. (N) NOT A SEPARATE PAY ITEM. FOR INFORMATION ONLY

SHOULDER RUMBLE STRIP (TABLE 1)

Gle-32 (PM R4.23 - R5.23)	DIRECTION	(N)	
		LENGTH	
		LF	Sta
R4.23 TO	EB	1,700	17
R4.59	WB	1,900	19
R4.59 (Co Rd RR) TO	EB	400	4
R4.73 (OLD HIGHWAY 32)	WB	600	6
R4.73 (OLD HIGHWAY 32) TO	EB	1,600	16
R5.09 (5th Ave)	WB	1,700	17
R5.09 (5TH Ave) TO	EB	600	6
R5.23 (STONE Y Cr Br No. 11-0029 BB)	WB	700	7
SUBTOTAL (TABLE 1)		9,200	92.0
SUBTOTAL (TABLE 2)		36,750	367.5
TOTAL			459.5

SHOULDER RUMBLE STRIP (TABLE 2)

But-32 (PM 0.42 - 4.60)	DIRECTION	(N)	
		LENGTH	
		LF	Sta
0.42 (0.12 EAST OF GIANELLA Rd) TO	EB	5,000	50
1.39 (PINE Cr LAGOON Br No. 12-0053)	WB	5,000	50
1.43 (PINE Cr LAGOON Br No. 12-0053) TO	EB	500	5
1.46 (RIVER Rd)	WB	700	7
1.46 (RIVER Rd) TO	EB	100	1
1.63 (PINE Cr OVERFLOW Br No. 12-0203)	WB	250	2.5
1.63 (PINE Cr OVERFLOW Br No. 12-0203) TO	EB	400	4
1.75 (PINE Cr OVERFLOW Br No. 12-0051)	WB	350	3.5
1.75 (PINE Cr OVERFLOW Br No. 12-0051) TO	EB	750	7.5
1.97 (KUSAL SLOUGH Br No. 12-0050)	WB	750	7.5
1.97 (KUSAL SLOUGH Br No. 12-0050) TO	EB	350	3.5
2.08 (ROCK Cr Br No. 12-0049)	WB	400	4
2.08 (ROCK Cr Br No. 12-0049) TO	EB	200	2
2.16 (HAMILTON NORD CANA Hwy)	WB	150	1.5
2.16 (HAMILTON NORD CANA Hwy) TO	EB	800	8
2.34 (ROCK Cr OVERFLOW Br No. 12-0048)	WB	600	6
2.34 (ROCK Cr OVERFLOW Br No. 12-0048) TO	EB	100	1
2.41 (ROCK Cr OVERFLOW Br No. 12-0047)	WB	100	1
2.41 (ROCK Cr OVERFLOW Br No. 12-0047) TO	EB	2,700	27
2.96 (BOX CULVERT #1)	WB	2,700	27
2.96 (BOX CULVERT #1) TO	EB	3,100	31
3.56 (BOX CULVERT #2)	WB	3,100	31
3.56 (BOX CULVERT #2) TO	EB	750	7.5
3.74 (GABLE DRAW Br No. 12-0046)	WB	750	7.5
3.74 (GABLE DRAW Br No. 12-0046) TO	EB	1,500	15
4.04 (BOX CULVERT #3)	WB	1,500	15
4.04 (BOX CULVERT #3) TO	EB	150	1.5
4.10 (BOX CULVERT #4)	WB	150	1.5
4.10 (BOX CULVERT #4) TO	EB	100	1
4.17 (MERIDIAN Rd)	WB	200	2
4.17 (MERIDIAN Rd) TO	EB	850	8.5
4.38 (MUD Cr Br No. 12-0045)	WB	800	8
4.38 (MUD Cr Br No. 12-0045) TO	EB	950	9.5
4.60 (0.28 MILE WEST OF FREIGHT Ln)	WB	950	9.5
SUBTOTAL (TABLE 2)		36,750	367.5

* SEE SHOULDER RUMBLE STRIP (TABLE 1) FOR TOTAL QUANTITY

EDGE LINE RUMBLE STRIP

Gle-32 (PM R5.51 - 9.60)	DIRECTION	(N)	
		LENGTH	
		LF	Sta
R5.51 (STONE Y Cr Br No. 11-0029 EB) TO	EB	600	6
R5.64 (6TH Ave)	WB	750	7.5
R5.64 (6TH Ave) TO	EB	10,150	101.5
7.60 (Co Rd VV)	WB	10,150	101.5
7.60 (Co Rd VV) TO	EB	10,100	101
9.60 (GLENN-COLUSA CANAL Br No. 11-0028)	WB	10,200	102
SUBTOTAL		41,950	419.5
TOTAL			419.5

SUMMARY OF QUANTITIES

Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

TRAFFIC SAFETY

FUNCTIONAL SUPERVISOR: MICHAEL HAGEN

CALCULATED/DESIGNED BY: JAMES PHILIPP

CHECKED BY: DAVINDER MINHAS

REVISED BY: DATE REVISED



	M	
Maint	MAINTENANCE	
Max	MAXIMUM	
MB	METAL BEAM	
MBB	METAL BEAM BARRIER	
MBGR	METAL BEAM GUARD RAILING	
Med	MEDIAN	
MGS	MIDWEST GUARDRAIL SYSTEM	
MH	MANHOLE	
Min	MINIMUM	
Misc	MISCELLANEOUS	
Misc I & S	MISCELLANEOUS IRON AND STEEL	
Mkr	MARKER	
Mod	MODIFIED, MODIFY	
Mon	MONUMENT	
MP	METAL PLATE	
MPGR	METAL PLATE GUARD RAILING	
MR	MOVEMENT RATING	
MSE	MECHANICALLY STABILIZED EMBANKMENT	
Mt	MOUNTAIN, MOUNT	
MtI	MATERIAL	
MVP	MAINTENANCE VEHICLE PULLOUT	
	N	
N	NORTH	
NB	NORTHBOUND	
No.	NUMBER (MUST HAVE PERIOD)	
Nos.	NUMBERS (MUST HAVE PERIOD)	
NPS	NOMINAL PIPE SIZE	
NS	NEAR SIDE	
NSP	NEW STANDARD PLAN	
NTS	NOT TO SCALE	
	O	
Obir	OBLITERATE	
OC	OVERCROSSING	
OD	OUTSIDE DIAMETER	
OF	OUTSIDE FACE	
OG	ORIGINAL GROUND	
OGAC	OPEN GRADED ASPHALT CONCRETE	
OGFC	OPEN GRADED FRICTION COURSE	
OH	OVERHEAD	
OHWM	ORDINARY HIGH WATER MARK	
O-O	OUT TO OUT	
Opp	OPPOSITE	
OSD	OVERSIDE DRAIN	
	P	
p	PAGE	
PAP	PERFORATED ALUMINUM PIPE	
PB	PULL BOX	
PC	POINT OF CURVATURE, PRECAST	
PCC	POINT OF COMPOUND CURVE, PORTLAND CEMENT CONCRETE	
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN	
PCP	PERFORATED CONCRETE PIPE, PRESTRESSED CONCRETE PIPE	
PCVC	POINT OF COMPOUND VERTICAL CURVE	
PEC	PERMIT TO ENTER AND CONSTRUCT	
Ped	PEDESTRIAN	
Ped OC	PEDESTRIAN OVERCROSSING	
Ped UC	PEDESTRIAN UNDERCROSSING	
Perm MtI	PERMEABLE MATERIAL	

	P continued	
PG	PROFILE GRADE	
PI	POINT OF INTERSECTION	
PJP	PARTIAL JOINT PENETRATION	
Pkwy	PARKWAY	
PL, PL	PLATE	
P/L	PROPERTY LINE	
PM	POST MILE, TIME FROM NOON TO MIDNIGHT	
PN	PAVING NOTCH	
POC	POINT OF HORIZONTAL CURVE	
POT	POINT OF TANGENT	
POVC	POINT OF VERTICAL CURVE	
PP	PIPE PILE, PLASTIC PIPE, POWER POLE	
PPL	PREFORMED PERMEABLE LINER	
PPP	PERFORATED PLASTIC PIPE	
PRC	POINT OF REVERSE CURVE	
PRF	PAVEMENT REINFORCING FABRIC	
PRVC	POINT OF REVERSE VERTICAL CURVE	
PS&E	PLANS, SPECIFICATIONS AND ESTIMATES	
PS, P/S	PRESTRESSED	
PSP	PERFORATED STEEL PIPE	
PT	POINT OF TANGENCY	
PVC	POLYVINYL CHLORIDE	
Pvmt	PAVEMENT	
	Q	
Qty	QUANTITY	
	R	
R	RADIUS	
R & D	REMOVE AND DISPOSE	
R & S	REMOVE AND SALVAGE	
R/C	RATE OF CHANGE	
RCA	REINFORCED CONCRETE ARCH	
RCB	REINFORCED CONCRETE BOX	
RCP	REINFORCED CONCRETE PIPE	
RCPA	REINFORCED CONCRETE PIPE ARCH	
Rd	ROAD	
Reinf	REINFORCED, REINFORCEMENT, REINFORCING	
Rel	RELOCATE	
Repl	REPLACEMENT	
Ret	RETAINING	
Rev	REVISED, REVISION	
Rdwy	ROADWAY	
RHMA	RUBBERIZED HOT MIX ASPHALT	
Riv	RIVER	
RM	ROAD-MIXED	
RP	RADIUS POINT, REFERENCE POINT	
RR	RAILROAD	
RSP	ROCK SLOPE PROTECTION, REVISED STANDARD PLAN	
Rt	RIGHT	
Rte	ROUTE	
RW	REDWOOD, RETAINING WALL	
R/W	RIGHT OF WAY	
Rwy	RAILWAY	

	S	
S	SOUTH, SUPPLEMENT	
SAE	STRUCTURE APPROACH EMBANKMENT	
Salv	SALVAGE	
SAPP	STRUCTURAL ALUMINUM PLATE PIPE	
SB	SOUTHBOUND	
SC	SAND CUSHION	
SCSP	SLOTTED CORRUGATED STEEL PIPE	
SD	STORM DRAIN	
Sec	SECOND, SECTION	
Sep	SEPARATION	
SG	SUBGRADE	
Shld	SHOULDER	
Sht	SHEET	
Sim	SIMILAR	
SL	STATION LINE	
SM	SELECTED MATERIAL	
Spec	SPECIAL, SPECIFICATIONS	
SPP	SLOTTED PLASTIC PIPE	
SS	SLOPE STAKE	
SSBM	STRAP AND SADDLE BRACKET METHOD	
SSD	STRUCTURAL SECTION DRAIN	
SSPA	STRUCTURAL STEEL PLATE ARCH	
SSPP	STRUCTURAL STEEL PLATE PIPE	
SSPPA	STRUCTURAL STEEL PLATE PIPE ARCH	
SSRP	STEEL SPIRAL RIB PIPE	
St	STREET	
Sta	STATION	
STBB	SINGLE THRIE BEAM BARRIER	
Std	STANDARD	
Str	STRUCTURE	
Surf	SURFACING	
SW	SIDEWALK, SOUND WALL	
Swr	SEWER	
Sym	SYMMETRICAL	
S4S	SURFACE 4 SIDES	
	T	
T	SEMI-TANGENT	
Tan	TANGENT	
TBB	THRIE BEAM BARRIER	
Tbr	TIMBER	
TC	TOP OF CURB	
TCB	TRAFFIC CONTROL BOX	
TCE	TEMPORARY CONSTRUCTION EASEMENT	
TeI	TELEPHONE	
Temp	TEMPORARY	
TG	TOP OF GRADE	
Tot	TOTAL	
TP	TELEPHONE POLE	
TPB	TREATED PERMEABLE BASE	
TPM	TREATED PERMEABLE MATERIAL	
Trans	TRANSITION	

	T continued	
TS	TRANSVERSE, TRAFFIC SIGNAL, TUBULAR STEEL	
Typ	TYPICAL	U
UC	UNDERCROSSING	
UD	UNDERDRAIN	
UG	UNDERGROUND	
UON	UNLESS OTHERWISE NOTED	
UP	UNDERPASS	V
V	VALVE, DESIGN SPEED	
Var	VARIABLE, VARIES	
VC	VERTICAL CURVE	
VCP	VITRIFIED CLAY PIPE	
Vert	VERTICAL	
Via	VIADUCT	
Vol	VOLUME	W
W	WEST, WIDTH	
WB	WESTBOUND	
WH	WEEP HOLE	
WM	WIRE MESH	
WS	WATER SURFACE	
WSP	WELDED STEEL PIPE	
Wt	WEIGHT	
WV	WATER VALVE	
WW	WINGWALL	
WWL	WINGWALL LAYOUT LINE	X
X Sec	CROSS SECTION	
Xing	CROSSING	Y
Yr	YEAR	
Yrs	YEARS	

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Gle, But	32	R4.2/9.6, 0.4/4.6	7	10

Grace M. Tsushima
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 Grace M. Tsushima
 No. C49814
 Exp. 9-30-14
 CIVIL
 STATE OF CALIFORNIA

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TO ACCOMPANY PLANS DATED 4-18-16

UNIT OF MEASUREMENT SYMBOLS:
Some of the symbols used in the project plan quantity tables and in the Bid Item List are:

TABLE A

SYMBOL USED	DEFINITIONS
ACRE	ACRE
CF	CUBIC FOOT
CY	CUBIC YARD
EA	EACH
GAL	GALLON
LB	POUND
LF	LINEAR FOOT
SQFT	SQUARE FOOT
SQYD	SQUARE YARD
STA	100 FEET
TAB	TABLET
TON	2,000 POUNDS

Some of the symbols used in the plans other than in the project plan quantity tables are:

TABLE B

SYMBOL USED	DEFINITIONS
ksi	KIPS PER SQUARE INCH
ksf	KIPS PER SQUARE FOOT
psi	POUNDS PER SQUARE INCH
psf	POUNDS PER SQUARE FOOT
lb/ft ³ , pcf	POUNDS PER CUBIC FOOT
tsf	TONS PER SQUARE FOOT
mph, MPH *	MILES PER HOUR
ø	NOMINAL DIAMETER
oz	OUNCE
lb	POUND
kíp	1,000 POUNDS
cal	CALORIE
ft	FOOT OR FEET
gal	GALLON

* For use on a sign panel only

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**ABBREVIATIONS
(SHEET 2 OF 2)**

NO SCALE

RSP A10B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A10B
DATED MAY 20, 2011 - PAGE 2 OF THE STANDARD PLANS BOOK DATED 2010.

2010 REVISED STANDARD PLAN RSP A10B

TO ACCOMPANY PLANS DATED 4-18-16

TABLE 1

TAPER LENGTH CRITERIA AND CHANNELIZING DEVICE SPACING							
SPEED (S)	MINIMUM TAPER LENGTH * FOR WIDTH OF OFFSET 12 FEET (W)				MAXIMUM CHANNELIZING DEVICE SPACING		
	TANGENT 2L	MERGING L	SHIFTING L/2	SHOULDER L/3	X	Y	Z **
					TAPER	TANGENT	CONFLICT
mph	ft	ft	ft	ft	ft	ft	ft
20	160	80	40	27	20	40	10
25	250	125	63	42	25	50	12
30	360	180	90	60	30	60	15
35	490	245	123	82	35	70	17
40	640	320	160	107	40	80	20
45	1080	540	270	180	45	90	22
50	1200	600	300	200	50	100	25
55	1320	660	330	220	55	110	27
60	1440	720	360	240	60	120	30
65	1560	780	390	260	65	130	32
70	1680	840	420	280	70	140	35

* - For other offsets, use the following merging taper length formula for L:
 For speed of 40 mph or less, $L = WS^2/60$
 For speed of 45 mph or more, $L = WS$

Where: L = Taper length in feet
 W = Width of offset in feet
 S = Posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

** - Use for taper and tangent sections where there are no pavement markings or where there is a conflict between existing pavement markings and channelizers (CA).

TABLE 2

LONGITUDINAL BUFFER SPACE AND FLAGGER STATION SPACING				
SPEED *	Min D **	DOWNGRADE Min D ***		
		-3%	-6%	-9%
		ft	ft	ft
mph	ft	ft	ft	ft
20	115	116	120	126
25	155	158	165	173
30	200	205	215	227
35	250	257	271	287
40	305	315	333	354
45	360	378	400	427
50	425	446	474	507
55	495	520	553	593
60	570	598	638	686
65	645	682	728	785
70	730	771	825	891

* - Speed is posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph
 ** - Longitudinal buffer space or flagger station spacing
 *** - Use on sustained downgrade steeper than -3 percent and longer than 1 mile.

TABLE 3

ADVANCE WARNING SIGN SPACING			
ROAD TYPE	DISTANCE BETWEEN SIGNS *		
	A	B	C
	ft	ft	ft
URBAN - 25 mph OR LESS	100	100	100
URBAN - MORE THAN 25 mph TO 40 mph	250	250	250
URBAN - MORE THAN 40 mph	350	350	350
RURAL	500	500	500
EXPRESSWAY / FREEWAY	1000	1500	2640

* - The distances are approximate, are intended for guidance purposes only, and should be applied with engineering judgment. These distances should be adjusted by the Engineer for field conditions, if necessary, by increasing or decreasing the recommended distances.

STATE OF CALIFORNIA
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TRAFFIC CONTROL SYSTEM TABLES FOR LANE AND RAMP CLOSURES

NO SCALE

RSP T9 DATED JULY 19, 2013 SUPERSEDES RSP T9 DATED APRIL 19, 2013 THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

2010 REVISED STANDARD PLAN RSP T9

NOTES:

See Revised Standard Plan RSP T9 for tables.

Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on fluorescent orange background.

California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Gle,But	32	R4.2/9.6, 0.4/4.6	9	10

Devinder Singh
REGISTERED CIVIL ENGINEER

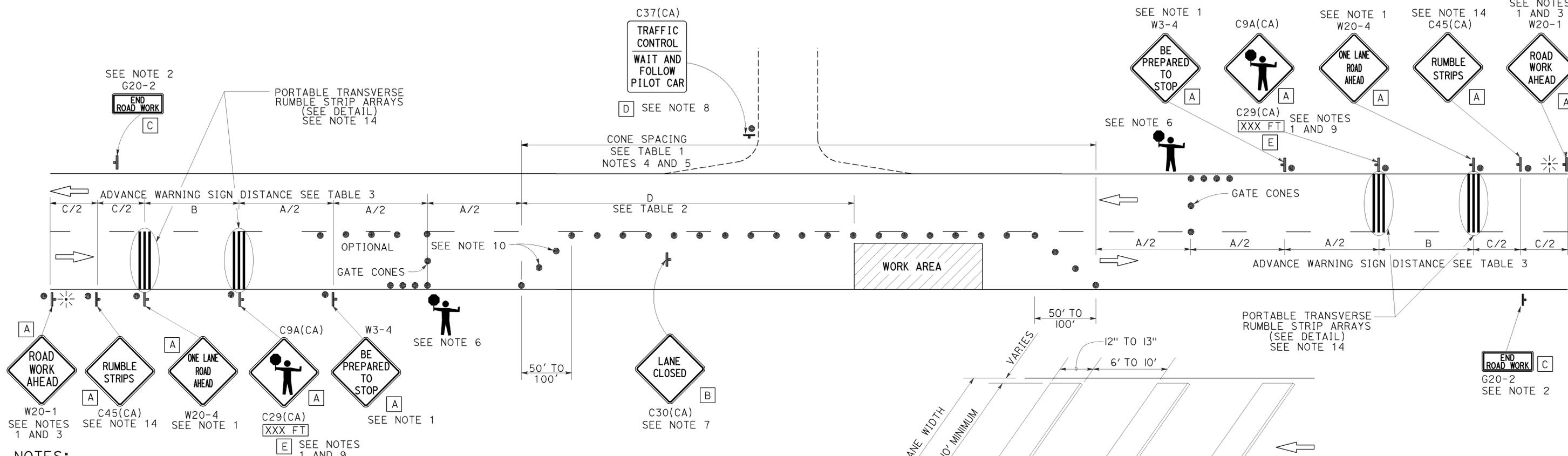
October 30, 2015
PLANS APPROVAL DATE

Devinder Singh
No. C50470
Exp. 6-30-17
CIVIL
STATE OF CALIFORNIA

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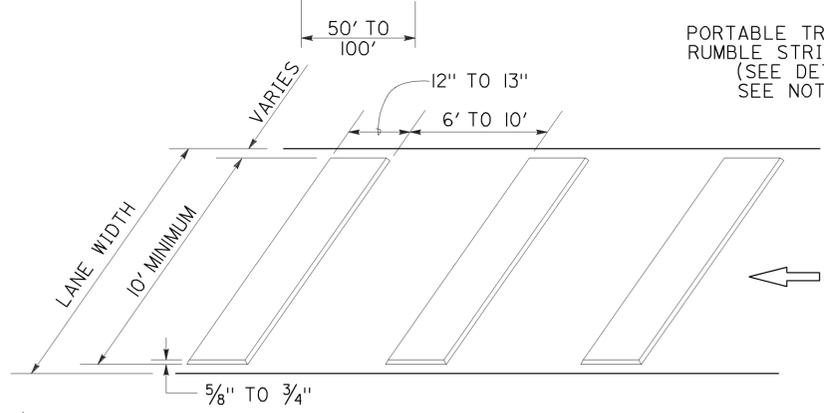
TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL

TO ACCOMPANY PLANS DATED 4-18-16



NOTES:

- Each advance warning sign in each direction of travel shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
- A G20-2 "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane control unless the end of work area is obvious, or ends within a larger project's limits.
- If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a W20-4 sign for the first advance warning sign.
- All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
- Additional advance flaggers may be required. Flagger should stand in a conspicuous place, be visible to approaching traffic as well as approaching vehicles after the first vehicle has stopped. During the hours of darkness, the flagging-station and flagger shall be illuminated and clearly visible to approaching traffic. The illumination footprint of the lighting on the ground shall be at least 20' in diameter. Place a minimum of four cones at 50' intervals in advance of flagger station as shown.
- Place C30(CA) "LANE CLOSED" sign at 500' to 1000' intervals throughout extended work areas. They are optional if the work area is visible from the flagger station.
- When a pilot car is used, place a C37(CA) "TRAFFIC CONTROL-WAIT AND FOLLOW PILOT CAR" sign with black legend on white background at all intersections, driveways and alleys without a flagger within traffic control area. Signs shall be clean and visible at all times. Where traffic can not be effectively self-regulated, at least one flagger shall be used at each intersection within traffic control area.
- An optional C29(CA) sign may be placed below the C9A(CA) sign.
- Either traffic cones or barricades shall be placed on the taper. Barricades shall be Type I, II, or III.
- The color of the portable transverse rumble strips shall be black or orange. Use 2 arrays, each array shall consist of 3 rumble strips.
- Portable transverse rumble strips shall not be placed on sharp horizontal or vertical curves nor shall they be placed through pedestrian crossings.
- If the portable transverse rumble strips become out of alignment (skewed) by more than 6 inches, measured from one end to the other, they shall be readjusted to bring the placement back to the original location.
- Portable transverse rumble strips are not required if any one of the following conditions is satisfied:
 - Work duration occupies a location for four hours or less
 - Posted speed limit is below 45 MPH
 - Work is of emergency nature
 - Work zone is in snow or icy weather conditions



PORTABLE TRANSVERSE RUMBLE STRIP ARRAY DETAIL

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 30" x 30"
- C 36" x 18"
- D 36" x 42"
- E 20" x 7"

LEGEND

- TRAFFIC CONE
- ⊥ TEMPORARY TRAFFIC CONTROL SIGN
- ⚡ PORTABLE FLASHING BEACON
- 🚧 FLAGGER

STATE OF CALIFORNIA
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TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON TWO LANE CONVENTIONAL HIGHWAYS

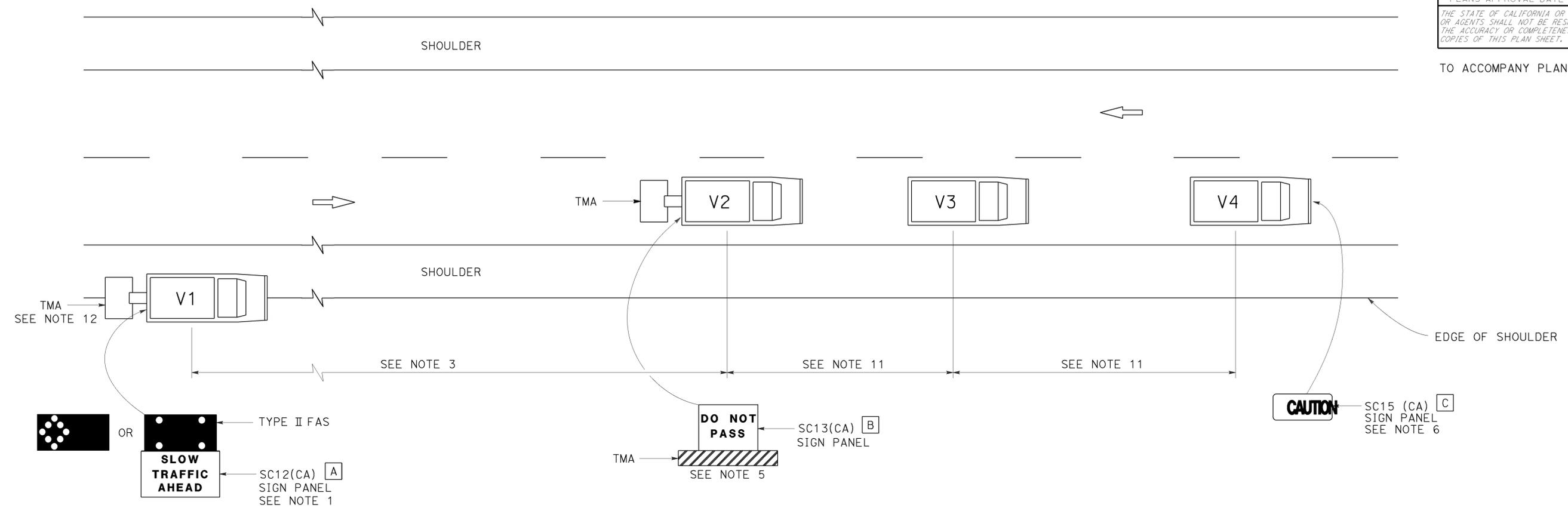
NO SCALE

RSP T13 DATED OCTOBER 30, 2015 SUPERSEDES RSP T13 DATED OCTOBER 17, 2014, RSP T13 DATED JULY 18, 2014 AND RSP T13 DATED APRIL 19, 2013 AND STANDARD PLAN T13 DATED MAY 20, 2011 - PAGE 241 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T13

2010 REVISED STANDARD PLAN RSP T13

TO ACCOMPANY PLANS DATED 4-18-16



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. The changeable message sign shall be sequenced to show the "CAUTION" message first, follow by the "SLOW TRAFFIC AHEAD" message. 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 have Type III or above retroreflective sheeting, black on white, or black on fluorescent orange, with 6" minimum series D letters per Caltrans sign specifications.
5. Shadow vehicle 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. This plan shall not be used where workers would be on foot in the work area. Use a stationary type lane closure (Revised Standard Plan T13) for this condition.
11. Minimize spacing between vehicles V2 and V3 and vehicles V3 and V4 to deter road users from driving in between them.
12. If sign vehicle V1 encroaches into the traffic lane due to insufficient shoulder width, sign vehicle V1 shall be equipped with a truck-mounted attenuator. Sign vehicle V1 shall stay as close to the edge of shoulder as practicable.

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
- FLASHING ARROW SIGN (FAS) IN ALTERNATING DIAMOND CAUTION

SIGN PANEL SIZE (Min)

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

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
 FOR MOVING LANE CLOSURE
 ON TWO LANE HIGHWAYS**
 NO SCALE

RSP T17 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T17 DATED MAY 20, 2011 - PAGE 245 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T17

2010 REVISED STANDARD PLAN RSP T17