

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ACSTP-P004(148)E

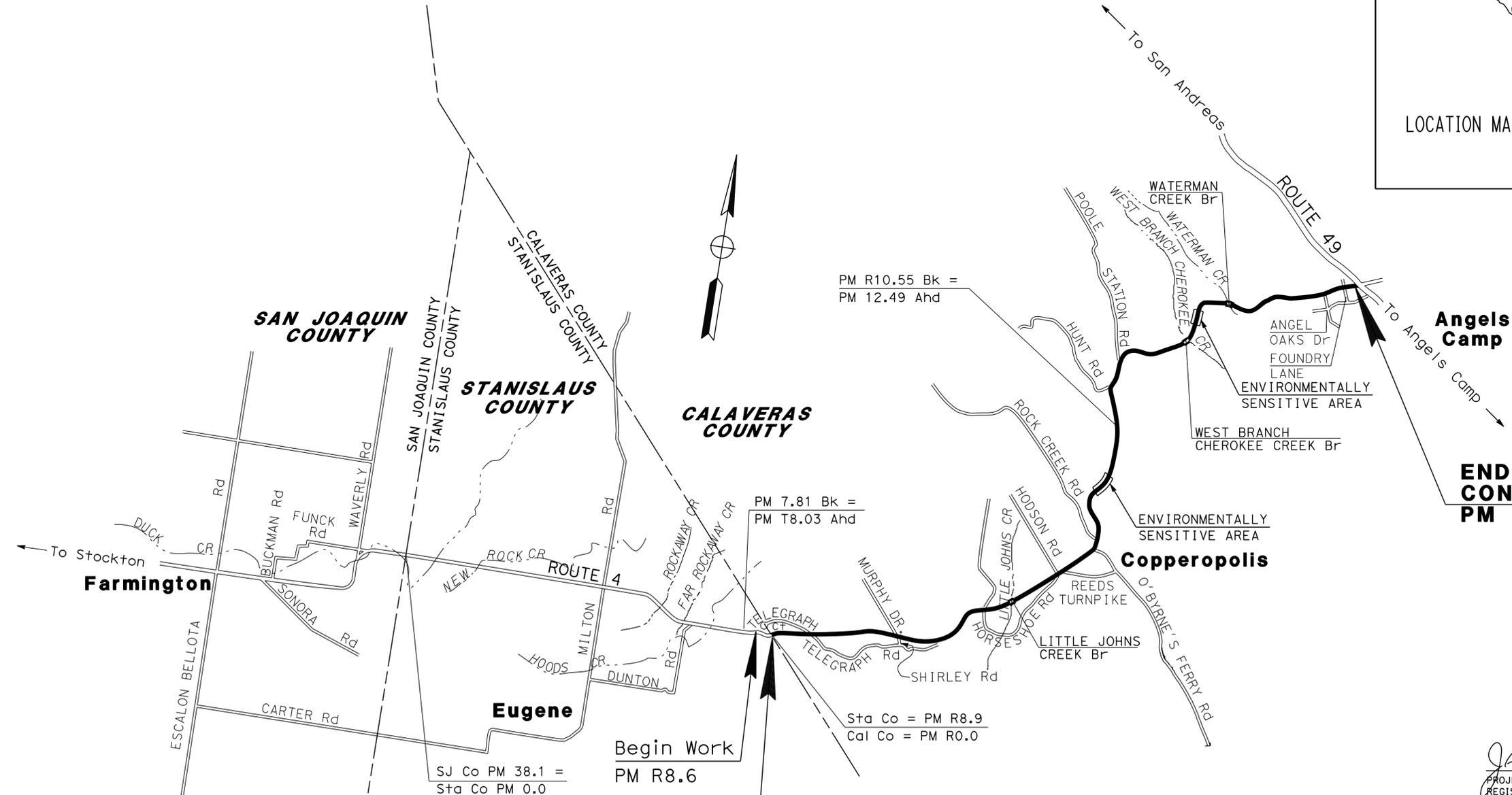
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN CALAVERAS COUNTY
AT AND NEAR COPPEROPOLIS
FROM STANISLAUS COUNTY LINE
TO ROUTE 49

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

INDEX OF PLANS

SHEET NO.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	TYPICAL CROSS SECTIONS
3-9	CONSTRUCTION DETAILS
10	CONSTRUCTION AREA SIGNS
11-12	SUMMARY OF QUANTITIES
13-19	REVISED STANDARD PLANS

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



PROJECT MANAGER
SINARATH PHENG

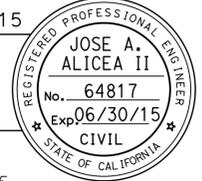
DESIGN ENGINEER
ALVIN MANGINDIN

PROJECT ENGINEER
REGISTERED CIVIL ENGINEER

DATE 1-5-15

January 5, 2015
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.



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

NO SCALE

CONTRACT No. 10-0X3904
PROJECT ID 1012000291

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Cal	4	RO.0/R21.1	2	19

REGISTERED CIVIL ENGINEER
 DATE 1-5-15
 JOSE A. ALICEA II
 No. 64817
 Exp. 6/30/15
 CIVIL
 STATE OF CALIFORNIA

01-05-15
 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:

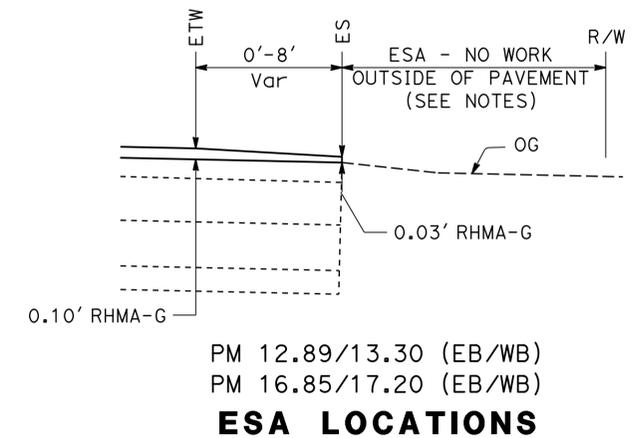
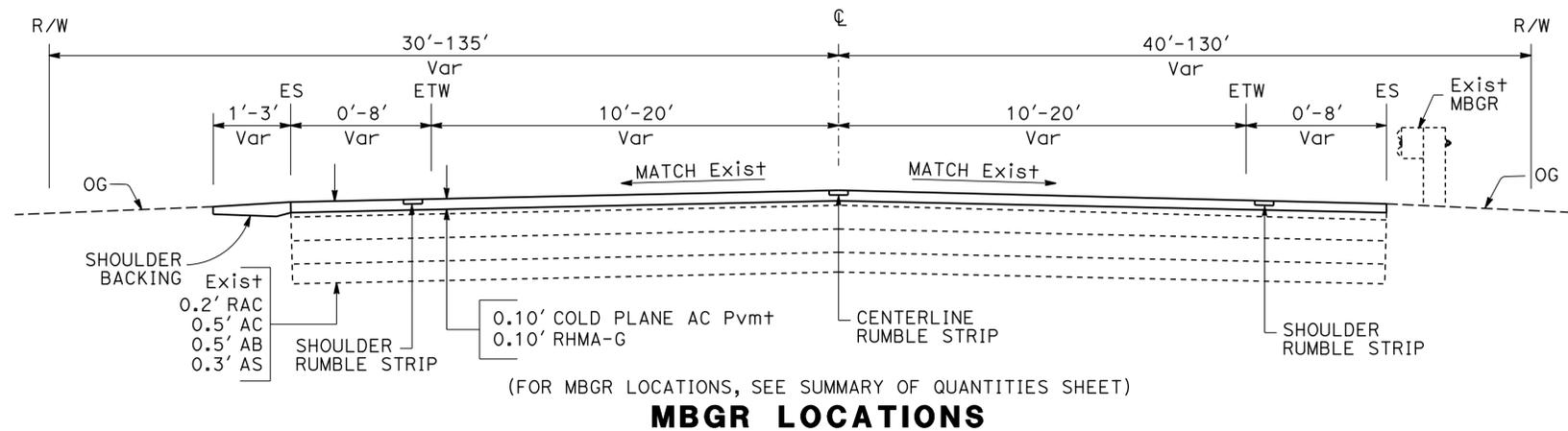
- DIMENSIONS OF PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
- FOR COLD PLANE AC PAVEMENT DIMENSIONS AND LOCATIONS, SEE SUMMARY OF QUANTITIES SHEETS.
- FOR HMA DIKE LOCATIONS, SEE SUMMARY OF QUANTITIES SHEETS.
- FOR ENVIRONMENTALLY SENSITIVE AREA (ESA), ALL WORK TO BE PERFORMED ON EXISTING PAVEMENT, NO SHOULDER BACKING WILL BE PLACED WITHIN ESA.

ABBREVIATIONS:

- RHMA-G - RUBBERIZED HOT MIX ASPHALT (GAP GRADED)
 RAC - RUBBERIZED ASPHALT CONCRETE
 HFST - HIGH FRICTION SURFACE TREATMENT

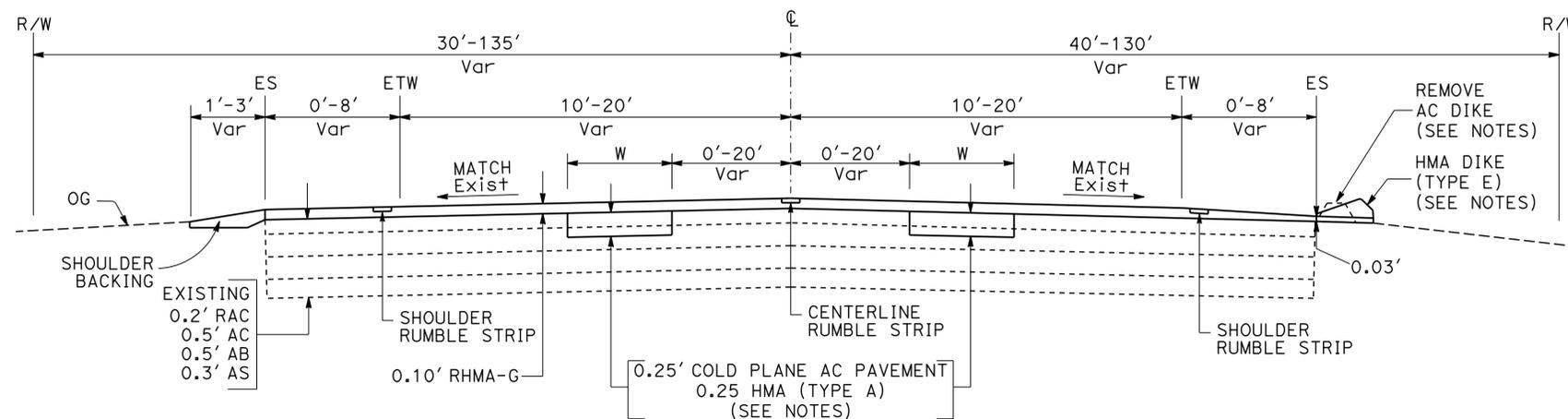
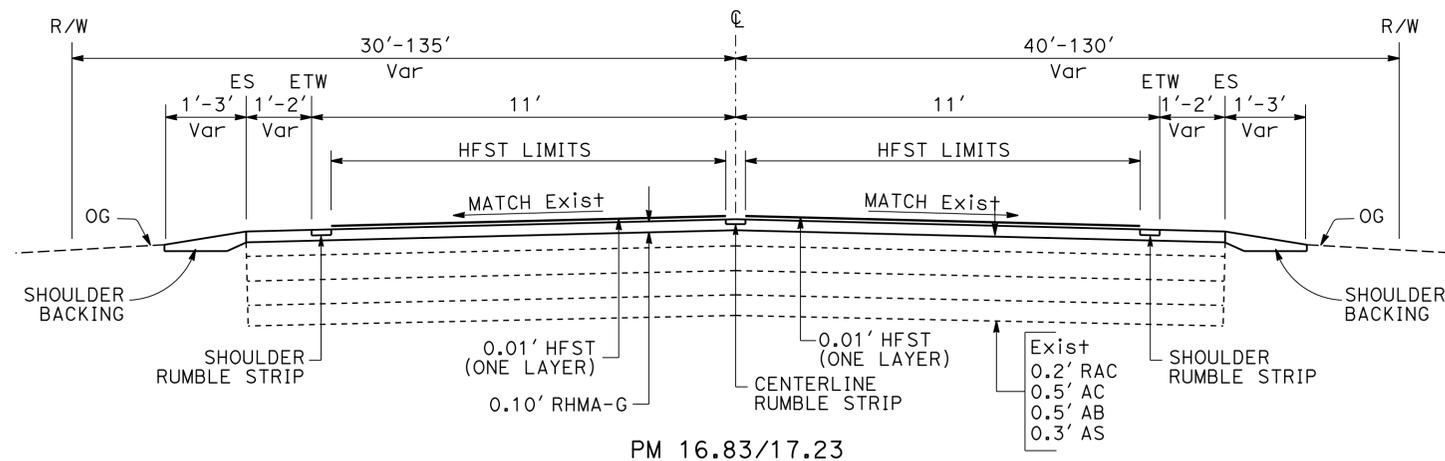
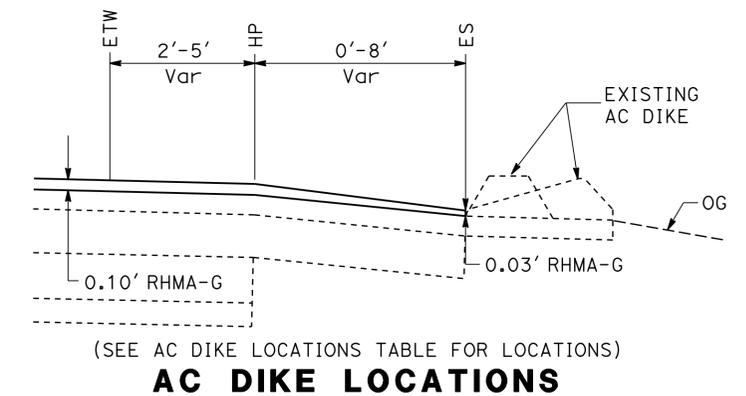
PAVEMENT CLIMATE REGION

LOW MOUNTAIN



AC DIKE LOCATIONS

PM / PM	SIDE
R1.39 / R1.85	Rt
R3.03 / R3.19	Rt
R3.82 / R3.93	Rt
R5.10 / R5.52	Rt
R7.58 / R7.78	Rt



TYPICAL CROSS SECTIONS

NO SCALE

X-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 MAINTENANCE
 FUNCTIONAL SUPERVISOR: ALVIN MANGINDIN
 CALCULATED/DESIGNED BY: JOSE A. ALICEA II
 CHECKED BY: BRUCE G. SUMIDA
 REVISED BY: JAA
 DATE REVISED: 01/05/14

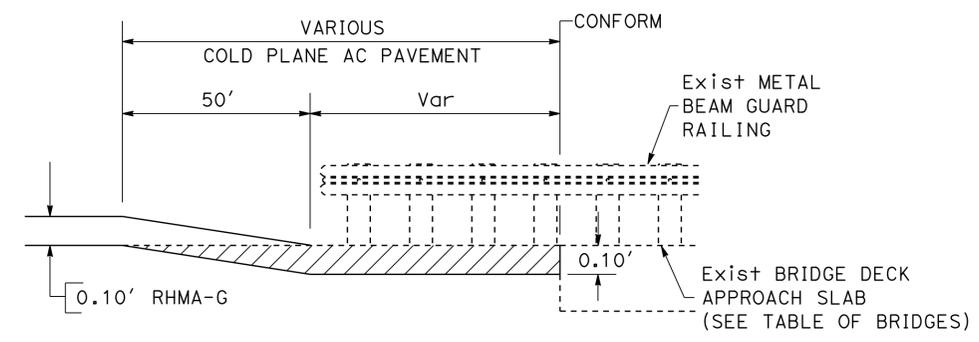
LAST REVISION: DATE PLOTTED => 21-JAN-2015
 00-00-00 TIME PLOTTED => 16:46

- LEGEND:**
- COLD PLANE AC PAVEMENT RHMA-G
 - COLD PLANE AC PAVEMENT HMA (TYPE A)
 - REMOVE CONCRETE AND AC PAVEMENT
 - HMA (TYPE A)
 - HFST LIMITS
 - 4" THERMOPLASTIC WHITE STRIPE
 - 4" THERMOPLASTIC YELLOW STRIPE
 - TYPE D TWO-WAY YELLOW RETROREFLECTIVE
 - TYPE H ONE-WAY YELLOW RETROREFLECTIVE
 - RUMBLE STRIPS

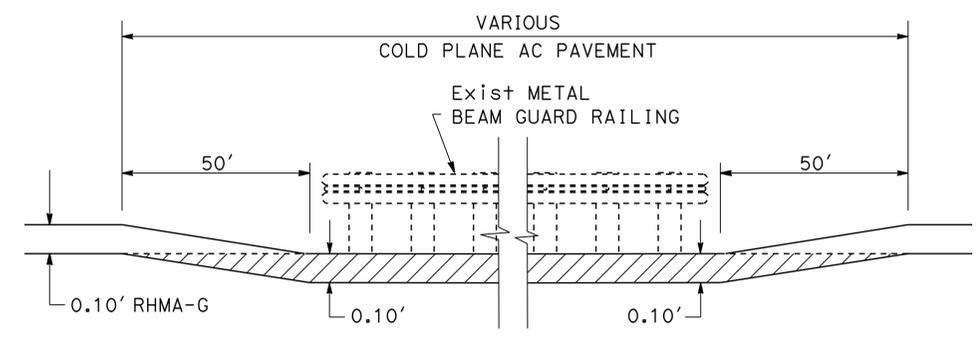
- ABBREVIATIONS:**
- RHMA-G - RUBBERIZED HOT MIX ASPHALT (GAP GRADED)
 - HFST - HIGH FRICTION SURFACE TREATMENT

TABLE OF BRIDGES

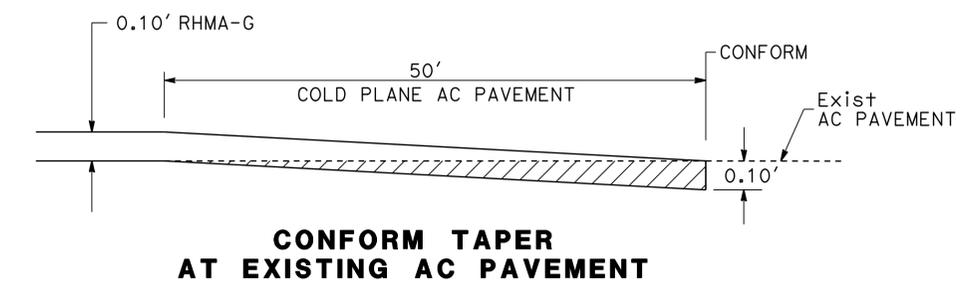
PM	BRIDGE NAME
R5.89	LITTLE JOHNS CREEK
16.15	WEST BRANCH CHEROKEE CREEK
17.60	WATERMAN CREEK



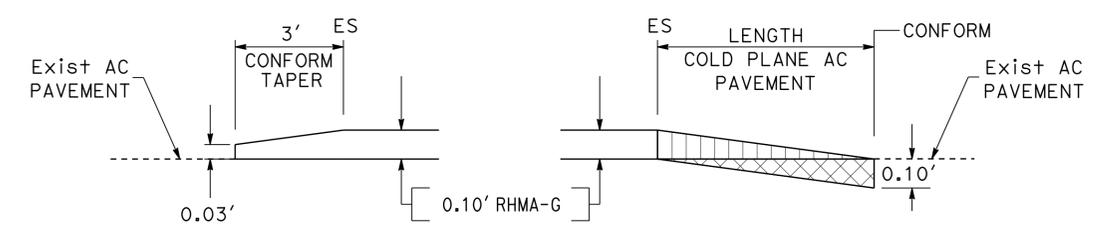
SEE SUMMARY OF QUANTITIES (CONFORM TAPERS TABLE)
CONFORM TAPER AT APPROACH/DEPARTURE BRIDGE DECK



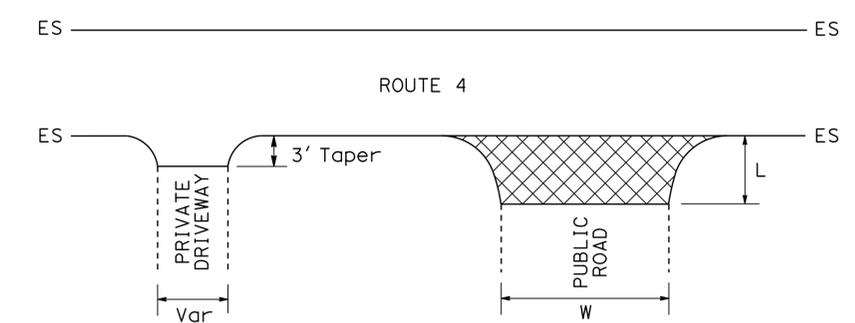
SEE SUMMARY OF QUANTITIES (CONFORM TAPERS AT MBGR TABLE)
CONFORM TAPER AT METAL BEAM GUARD RAIL



CONFORM TAPER AT EXISTING AC PAVEMENT



PRIVATE DRIVEWAY CONFORM TAPER **PUBLIC ROAD CONFORM TAPER**



SEE PUBLIC ROAD AND PRIVATE DRIVEWAY INTERSECTIONS TABLES
PAVING LIMITS AT PRIVATE DRIVEWAYS AND PUBLIC ROAD INTERSECTIONS

CONSTRUCTION DETAILS

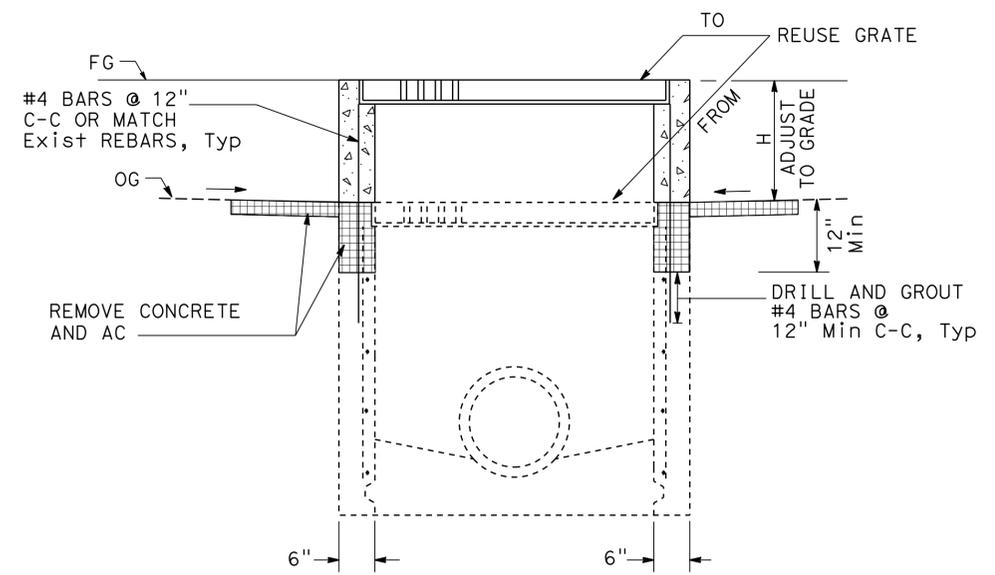
NO SCALE **C-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 MAINTENANCE
 FUNCTIONAL SUPERVISOR: ALVIN MANGINDIN
 CALCULATED/DESIGNED BY: JOSE A. ALICEA II
 CHECKED BY: BRUCE SUMIDA
 REVISOR: JAA
 DATE REVISED: 01/05/15

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Cal	4	R0.0/R21.1	4	19

JAAlicea II
 REGISTERED CIVIL ENGINEER DATE 1-5-15
 01-05-15
 PLANS APPROVAL DATE
 JOSE A. ALICEA II
 No. 64817
 Exp. 6/30/15
 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.

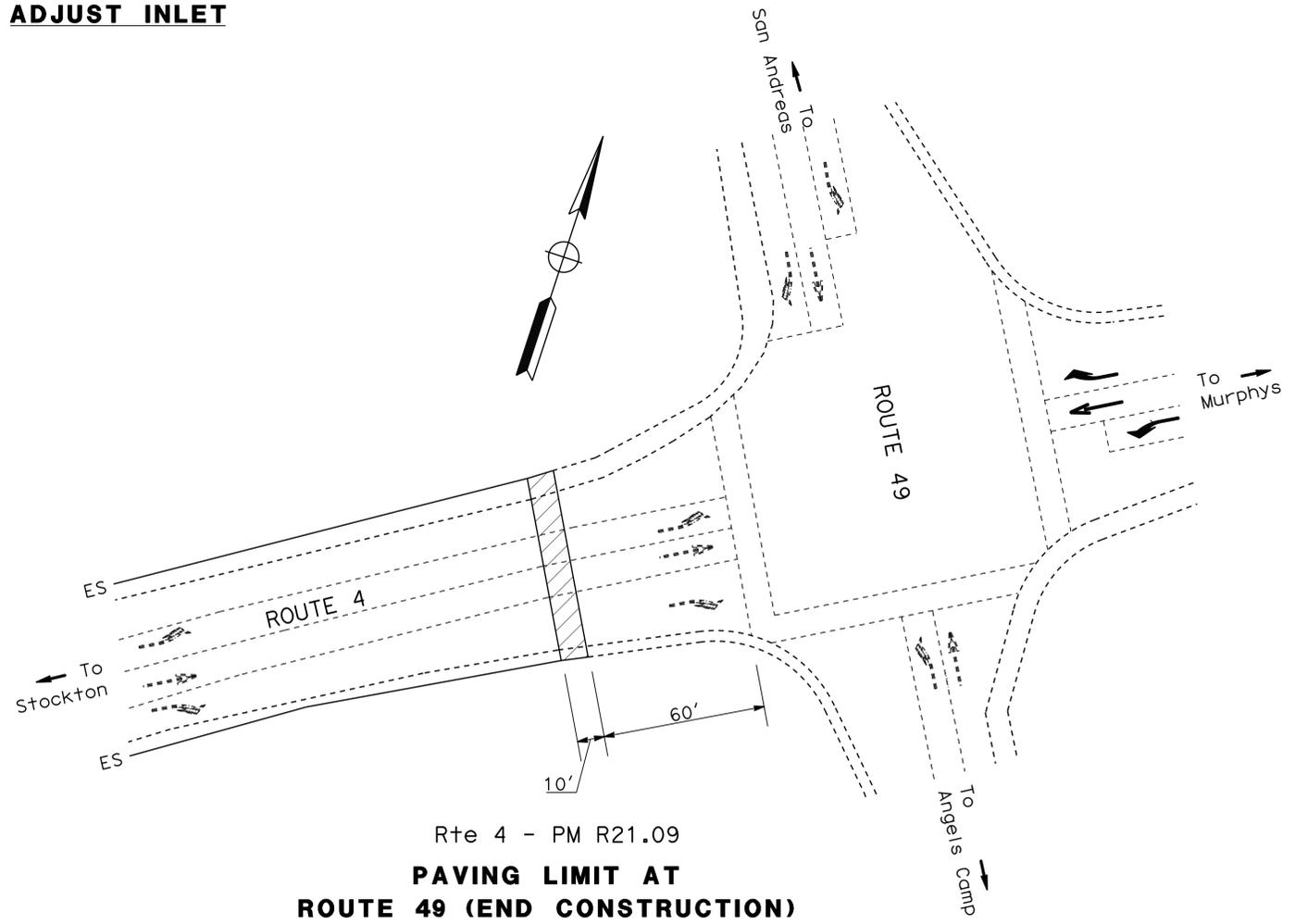


PM R1.55 (L+), PM R1.66 (L+),
 PM R3.74 (L+), PM R3.81 (L+),
 PM R6.69 (L+), PM R6.78 (L+)
ADJUST INLET

PRIVATE DRIVEWAY INTERSECTIONS

PM	SIDE	L	W	PM	SIDE	L	W
R3.35	R+	3'	105'	16.45	R+	3'	140'
R3.42	R+	3'	100'	16.53	R+	3'	68'
R8.58	R+	3'	80'	16.65	L+	3'	60'
R8.58	L+	3'	50'	16.73	R+	3'	100'
R9.70	R+	3'	60'	16.73	L+	3'	60'
R9.70	L+	3'	65'	16.78	L+	3'	40'
R9.98	R+	3'	35'	17.26	L+	3'	85'
R10.25	L+	3'	45'	18.32	R+	3'	40'
12.55	L+	3'	80'	18.78	L+	3'	35'
12.57	R+	3'	50'	18.90	R+	3'	45'
12.65	R+	3'	55'	R19.08	R+	3'	90'
12.65	L+	3'	60'	R19.08	L+	3'	95'
12.71	L+	3'	60'	R19.42	R+	3'	130'
12.75	R+	3'	60'	R19.42	L+	3'	40'
12.94	L+	3'	45'	R19.59	L+	3'	60'
15.82	R+	3'	90'	R20.17	R+	3'	40'
16.03	R+	3'	30'	R20.17	L+	3'	60'
16.18	L+	3'	50'	R20.57	L+	3'	60'
16.23	R+	3'	55'				

ACTUAL WIDTHS AND LOCATIONS MAY VARY IN THE FIELD AND WILL BE DETERMINED BY THE ENGINEER.



CONSTRUCTION DETAILS

NO SCALE **C-2**

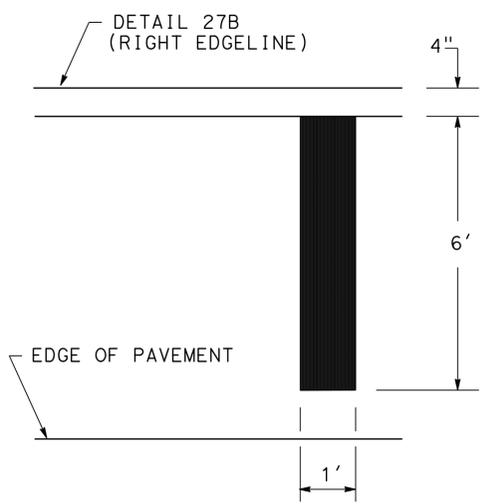
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MAINTENANCE
 Alvin Mangindin
 Functional Supervisor
 Jose A. Alicea II
 Bruce Sumida
 Revised By
 JAA
 Date Revised
 01/13/15
 Calculated/Designed By
 Checked By

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Cal	4	R0.0/R21.1	5	19

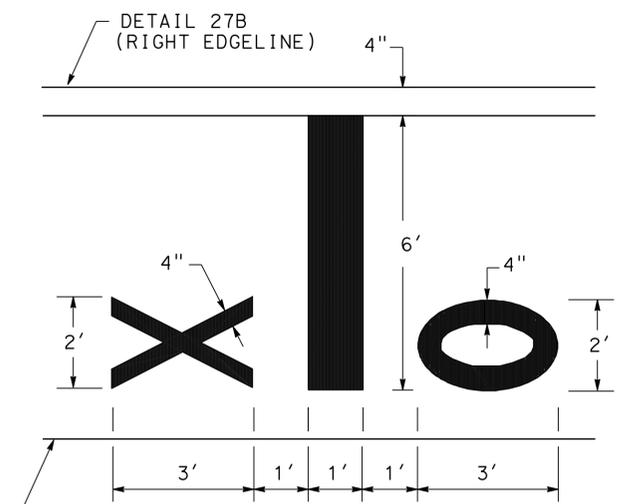
REGISTERED CIVIL ENGINEER DATE 1-5-15
 JOSE A. ALICEA II
 No. 64817
 Exp. 6/30/15
 CIVIL
 STATE OF CALIFORNIA

01-05-15
 PLANS APPROVAL DATE

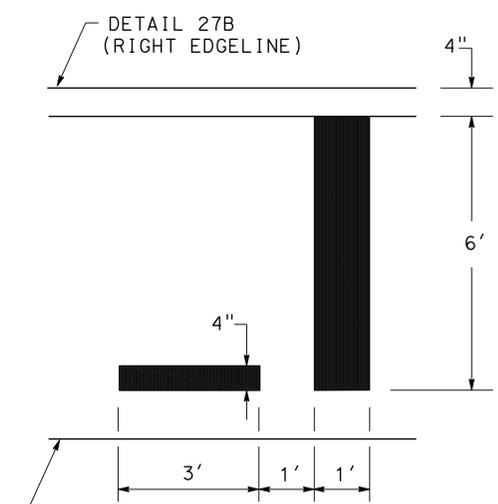
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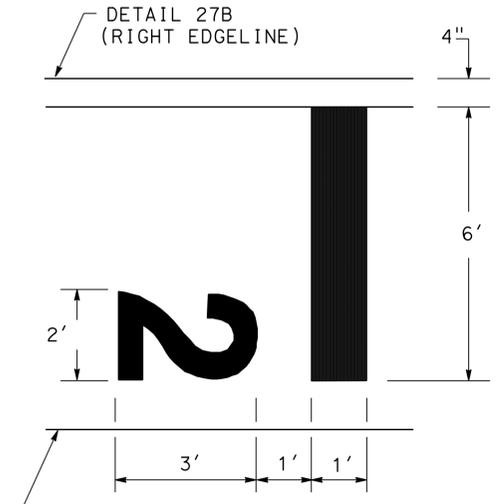
AREA = 6 SQFT
 AIRCRAFT PATROL PAVEMENT MARKING AT
 EVERY 0.50 MILE ON ROUTE 4 EB OUTSIDE
 SHOULDER FROM PM R0.50 TO PM R10.00.



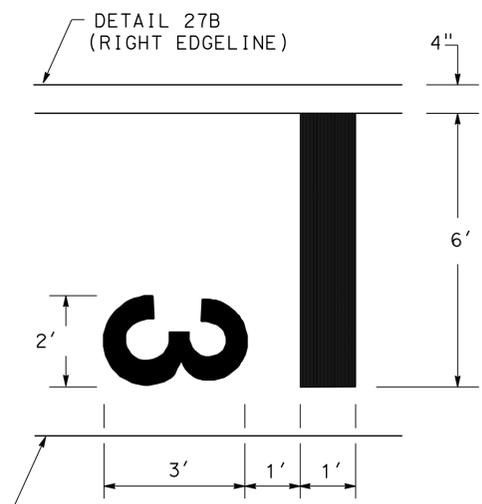
AREA = 3 SQFT
 AREA = 3 SQFT
 AREA = 6 SQFT
 Rte 4 EB-PM R0.00



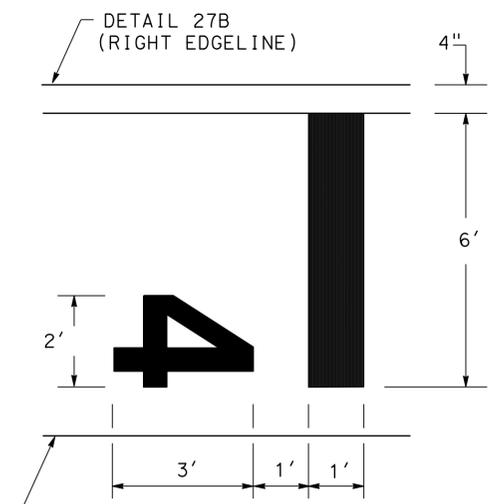
AREA = 1 SQFT
 AREA = 6 SQFT
 Rte 4 EB-PM R1.00



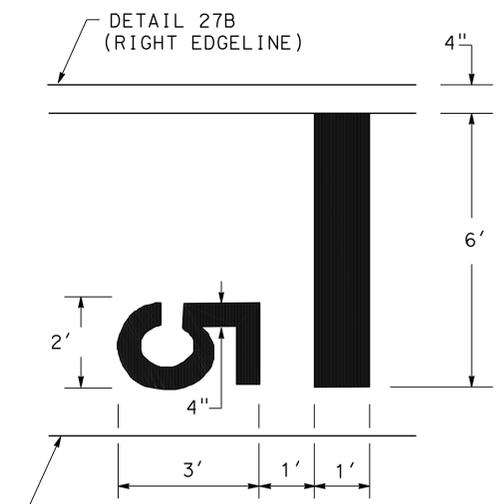
AREA = 3 SQFT
 AREA = 6 SQFT
 Rte 4 EB-PM R2.00



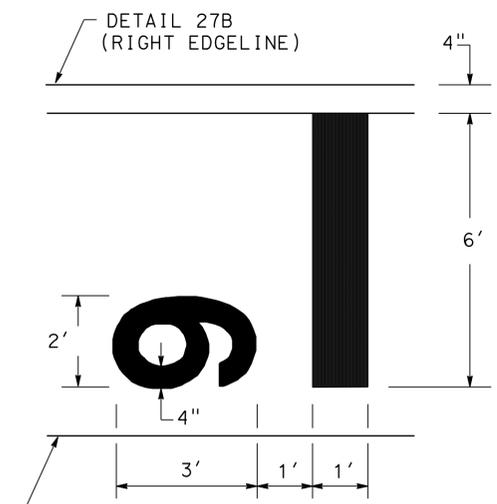
AREA = 3 SQFT
 AREA = 6 SQFT
 Rte 4 EB-PM R3.00



AREA = 3 SQFT
 AREA = 6 SQFT
 Rte 4 EB-PM R4.00



AREA = 3 SQFT
 AREA = 6 SQFT
 Rte 4 EB-PM R5.00



AREA = 3 SQFT
 AREA = 6 SQFT
 Rte 4 EB-PM R6.00

- NOTES (SHEETS C-3 AND C-4 ONLY):**
- AIRCRAFT PATROL PAVEMENT MARKING SHALL BE PLACED ON THE SHOULDER IN THE NORTHBOUND DIRECTION ONLY.
 - ALL MARKINGS FOR THIS DETAIL SHALL BE WHITE.

AIRCRAFT PATROL THERMOPLASTIC PAVEMENT MARKING DETAILS

CONSTRUCTION DETAILS

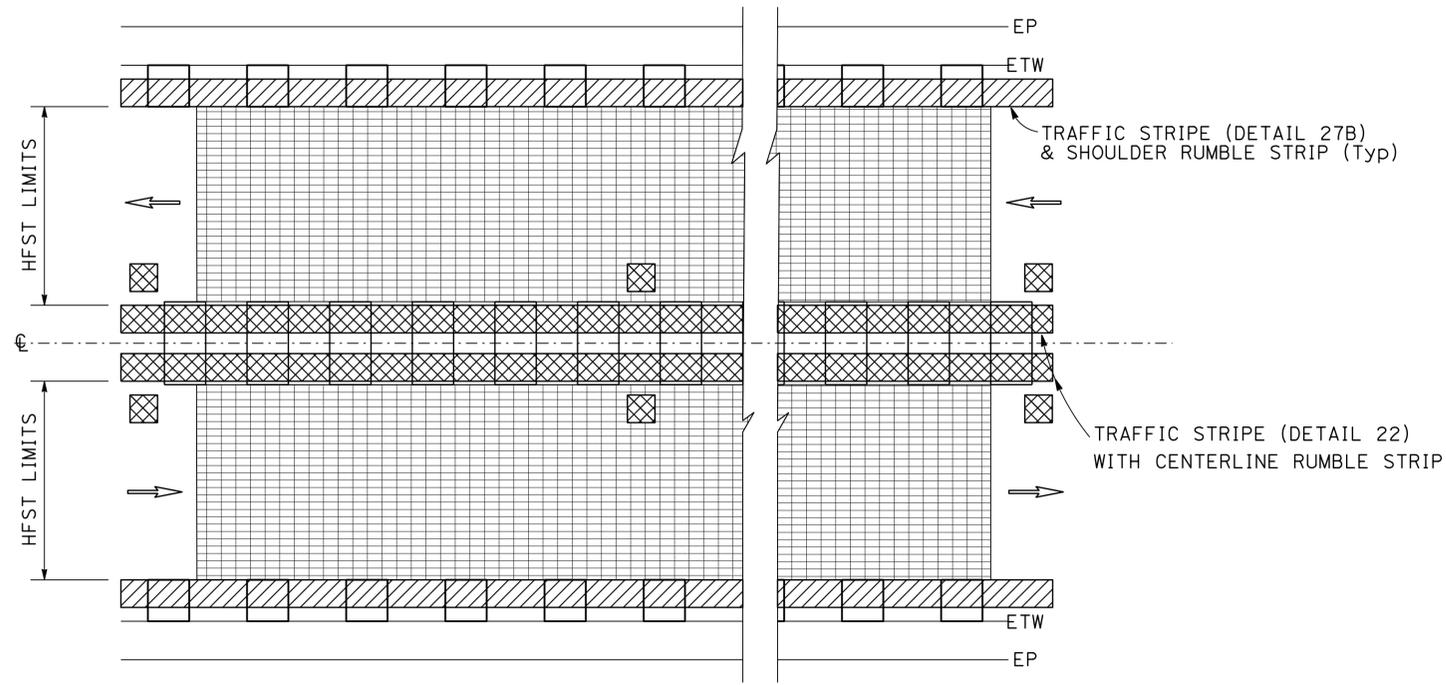
NO SCALE **C-3**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION MAINTENANCE
 FUNCTIONAL SUPERVISOR ALVIN MANGINDIN
 JOSE A. ALICEA II
 REVISED BY JAA
 DATE REVISED 01/13/15
 CALCULATED/DESIGNED BY
 CHECKED BY BRUCE SUMIDA

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Cal	4	R0.0/R21.1	6	19

1-5-15
 REGISTERED CIVIL ENGINEER DATE
 01-05-15
 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.

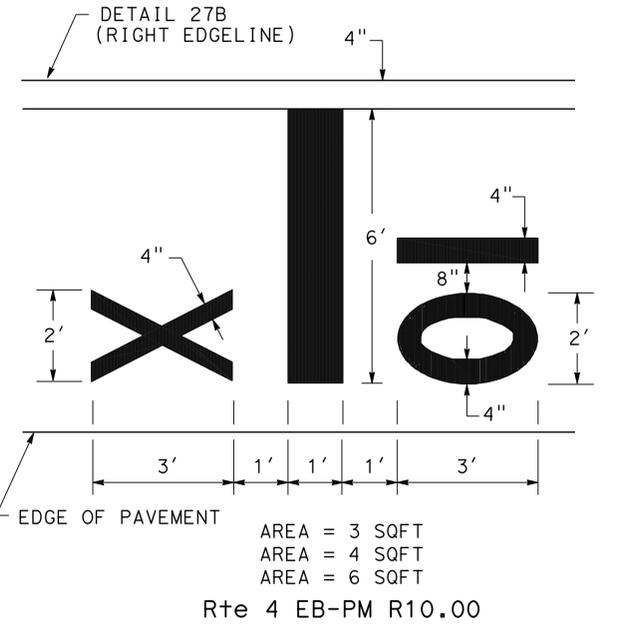
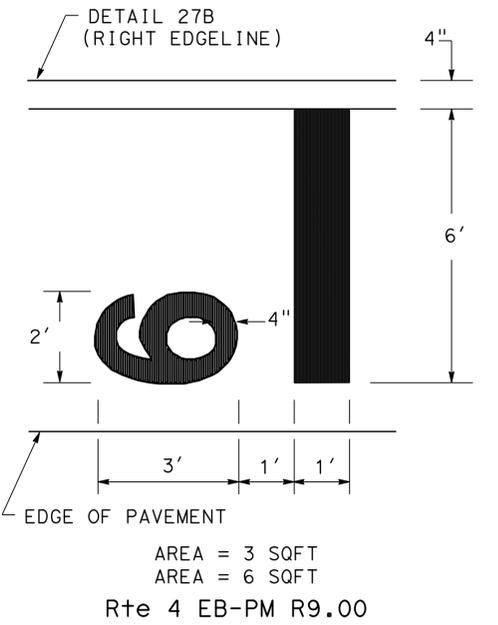
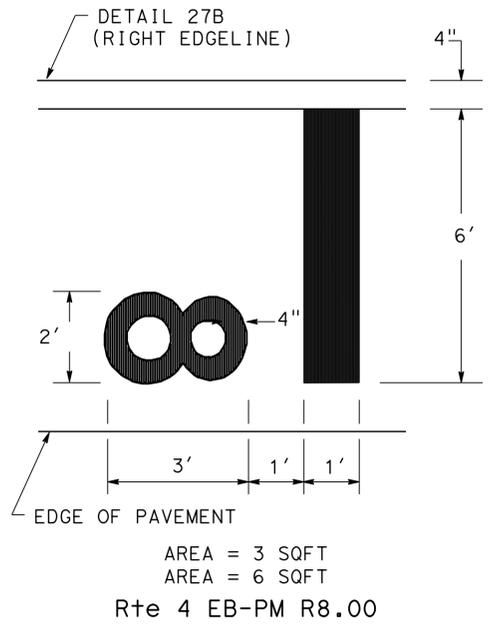
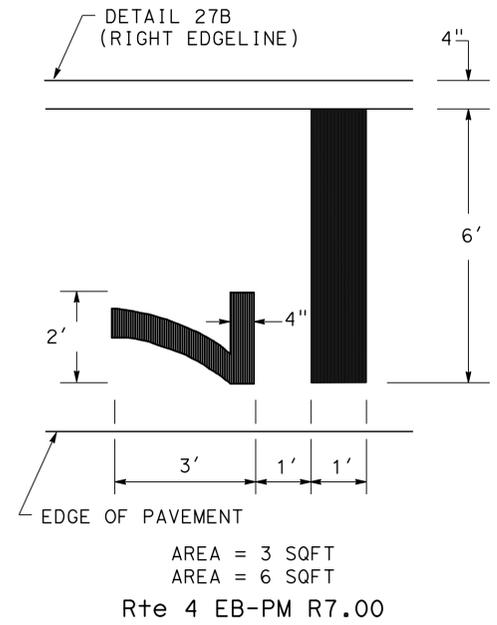
REGISTERED PROFESSIONAL ENGINEER
 JOSE A. ALICEA II
 No. 64817
 Exp. 6/30/15
 CIVIL
 STATE OF CALIFORNIA



PLAN VIEW

Rte 4 - PM 16.83/17.23

HIGH FRICTION SURFACE TREATMENT LIMITS



AIRCRAFT PATROL THERMOPLASTIC PAVEMENT MARKING DETAILS

CONSTRUCTION DETAILS

NO SCALE

C-4

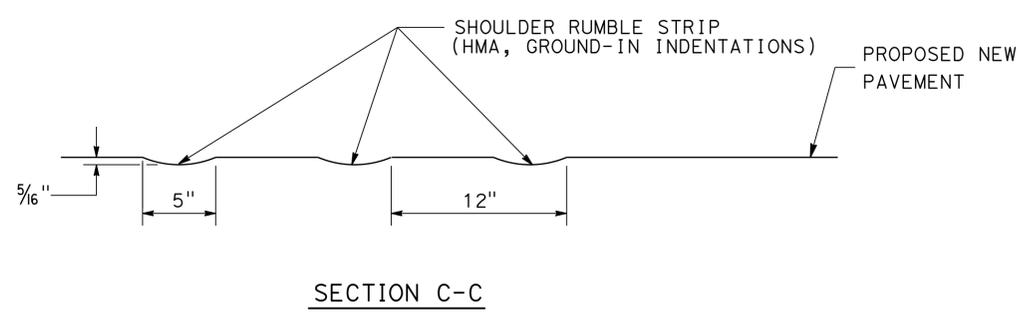
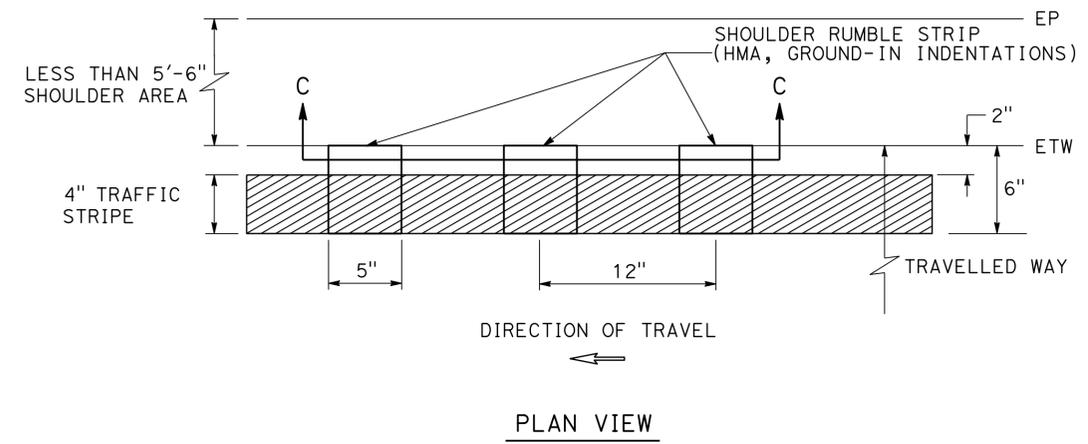
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MAINTENANCE
 Caltrans®
 FUNCTIONAL SUPERVISOR: ALVIN MANGINDIN
 CALCULATED/DESIGNED BY: JOSE A. ALICEA II
 CHECKED BY: BRUCE SUMIDA
 REVISED BY: JAA
 DATE REVISED: 01/13/15

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Cal	4	R0.0/R21.1	7	19

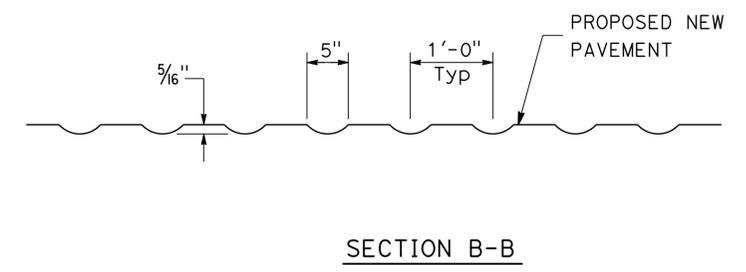
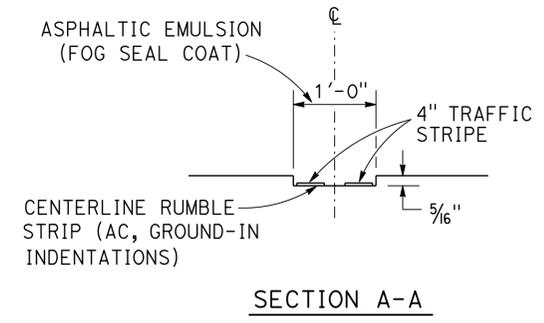
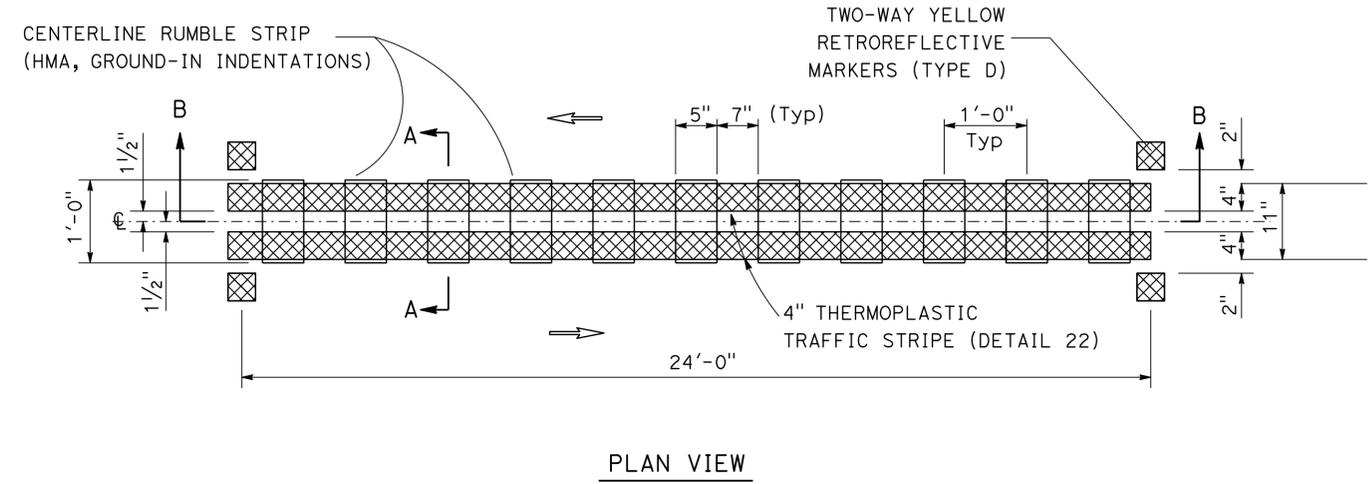
REGISTERED CIVIL ENGINEER DATE 1-5-15
 JOSE A. ALICEA II No. 64817 Exp. 6/30/15 CIVIL
 PLANS APPROVAL DATE 01-05-15

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 MAINTENANCE
 FUNCTIONAL SUPERVISOR ALVIN MANGINDIN
 JOSE A ALICEA II
 BRUCE SUMIDA
 REVISOR JAA
 DATE 12/12/14



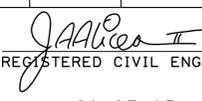
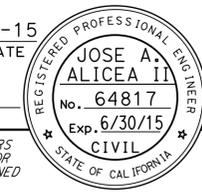
6" SHOULDER RUMBLE STRIP (HMA, GROUND-IN INDENTATIONS) WITH DETAIL 27 THERMOPLASTIC TRAFFIC STRIPE

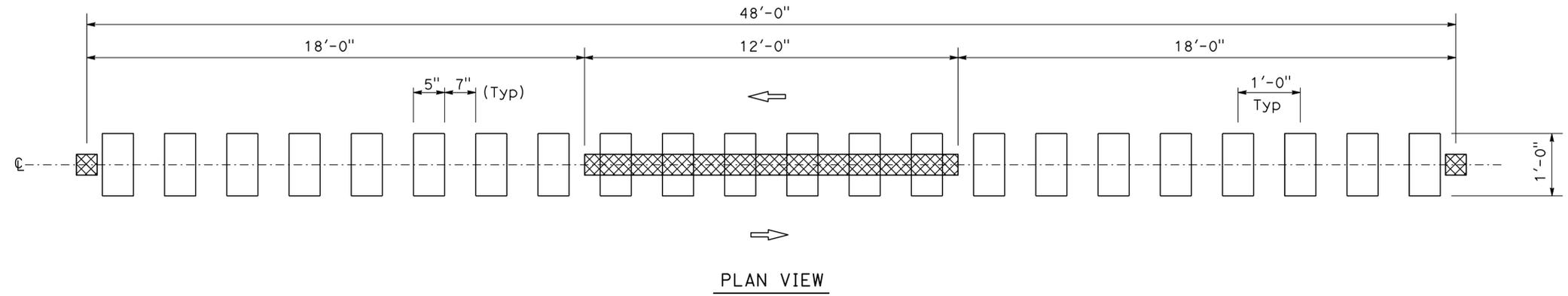


CENTERLINE RUMBLE STRIP (HMA, GROUND-IN INDENTATIONS) WITH DETAIL 22 THERMOPLASTIC TRAFFIC STRIPE

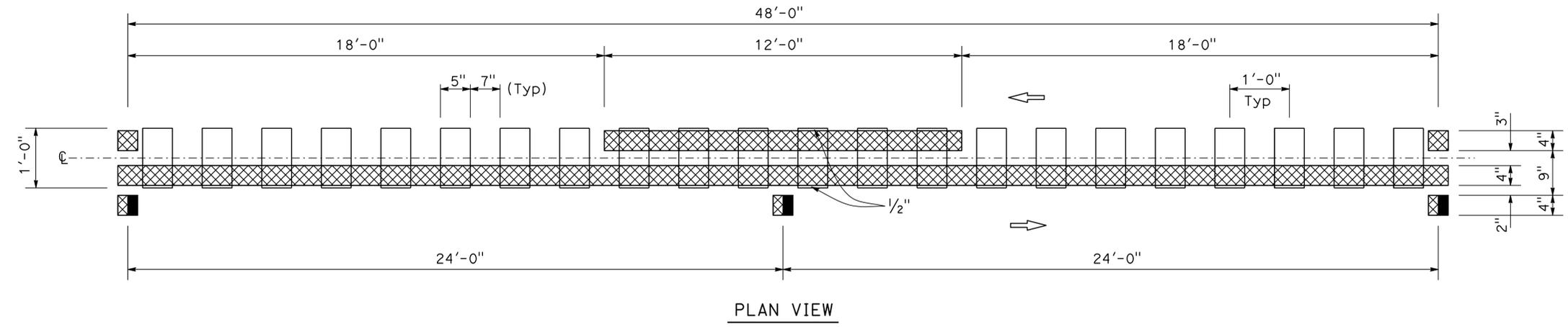
CONSTRUCTION DETAILS
NO SCALE **C-5**

LAST REVISION DATE PLOTTED => 21-JAN-2015
 00-00-00 TIME PLOTTED => 16:46

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Cal	4	R0.0/R21.1	8	19
			1-5-15	DATE	
REGISTERED CIVIL ENGINEER			DATE		
01-05-15			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>					



PLAN VIEW
CENTERLINE RUMBLE STRIP (HMA, GROUND-IN INDENTATIONS)
WITH DETAIL 6 THERMOPLASTIC TRAFFIC STRIPE

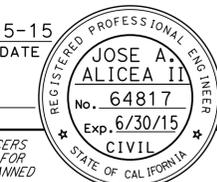


PLAN VIEW
CENTERLINE RUMBLE STRIP (HMA, GROUND-IN INDENTATIONS)
WITH DETAIL 19 THERMOPLASTIC TRAFFIC STRIPE

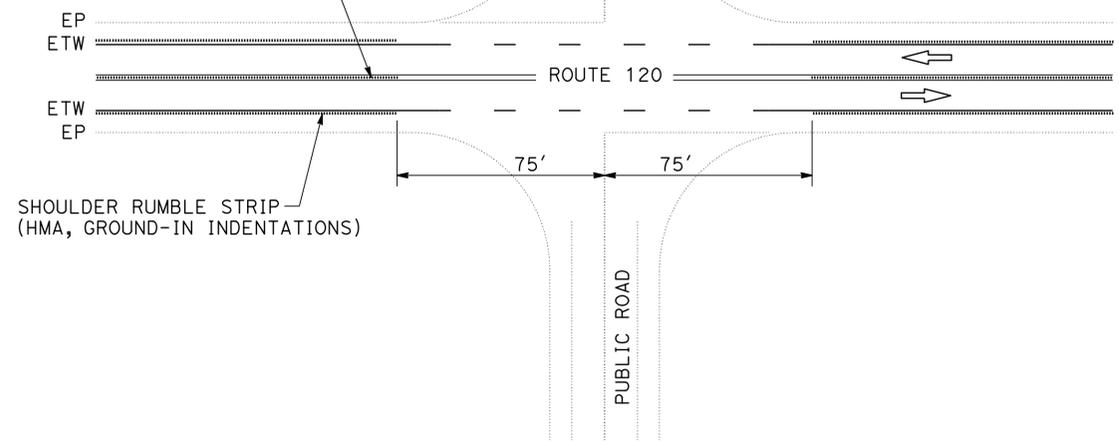
CONSTRUCTION DETAILS

NO SCALE **C-6**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	REVISOR	DATE
Caltrans	ALVIN MANGINDIN	JAA	11/14/14
MAINTENANCE		REVISOR	DATE
		BRUCE SUMIDA	11/14/14
		DESIGNED BY	
		CHECKED BY	

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Cal	4	R0.0/R21.1	9	19
			1-5-15	DATE	
REGISTERED CIVIL ENGINEER					
01-05-15			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>					

CENTERLINE RUMBLE STRIP
(HMA, GROUND-IN INDENTATIONS)

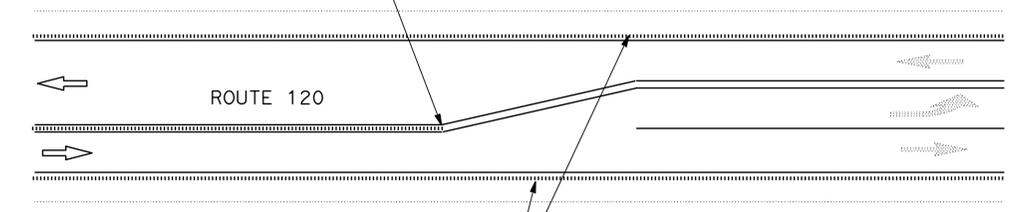


SHOULDER RUMBLE STRIP
(HMA, GROUND-IN INDENTATIONS)

SEE PUBLIC ROAD TABLE

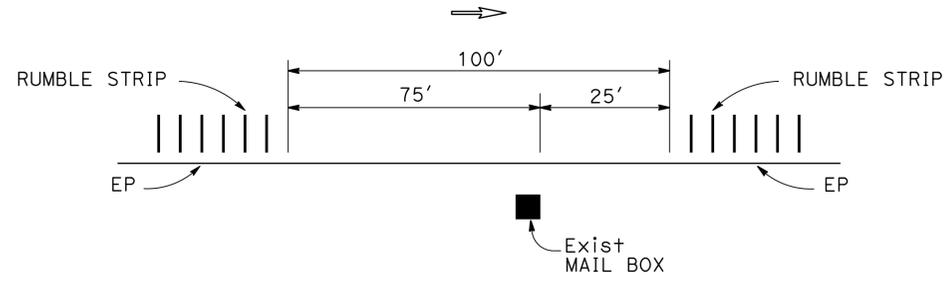
**RUMBLE STRIP DETAILS AT
PUBLIC ROAD INTERSECTIONS**

END CENTERLINE RUMBLE STRIP
(HMA, GROUND-IN INDENTATIONS)



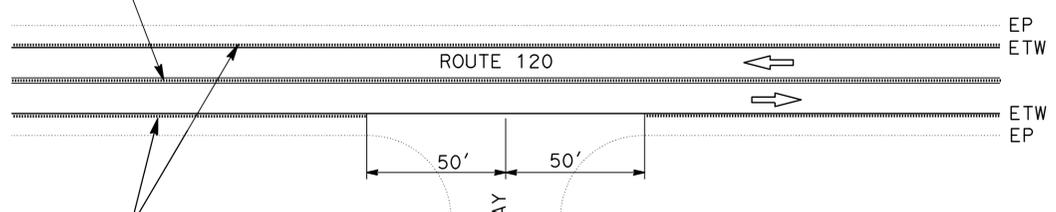
SHOULDER RUMBLE STRIP
(HMA, GROUND-IN INDENTATIONS)

**RUMBLE STRIP DETAILS
AT LEFT TURN POCKETS**



**RUMBLE STRIP GAP AT MAIL BOX
TYPICAL DETAIL**

CENTERLINE RUMBLE STRIP
(HMA, GROUND-IN INDENTATIONS)



SHOULDER RUMBLE STRIP
(HMA, GROUND-IN INDENTATIONS)

**RUMBLE STRIP DETAILS AT
PRIVATE DRIVEWAYS**

CONSTRUCTION DETAILS

NO SCALE

C-7

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 MAINTENANCE
 FUNCTIONAL SUPERVISOR: ALVIN MANGINDIN
 CALCULATED/DESIGNED BY: JOSE A. ALICEA II
 CHECKED BY: BRUCE SUMIDA
 REVISED BY: JAA
 DATE REVISED: 01/05/15
 USERNAME => s120300
 DGN FILE => a0x390ga007.dgn

BORDER LAST REVISED 7/2/2010

RELATIVE BORDER SCALE IS IN INCHES

0 1 2 3

UNIT 2593

PROJECT NUMBER & PHASE

10120002911

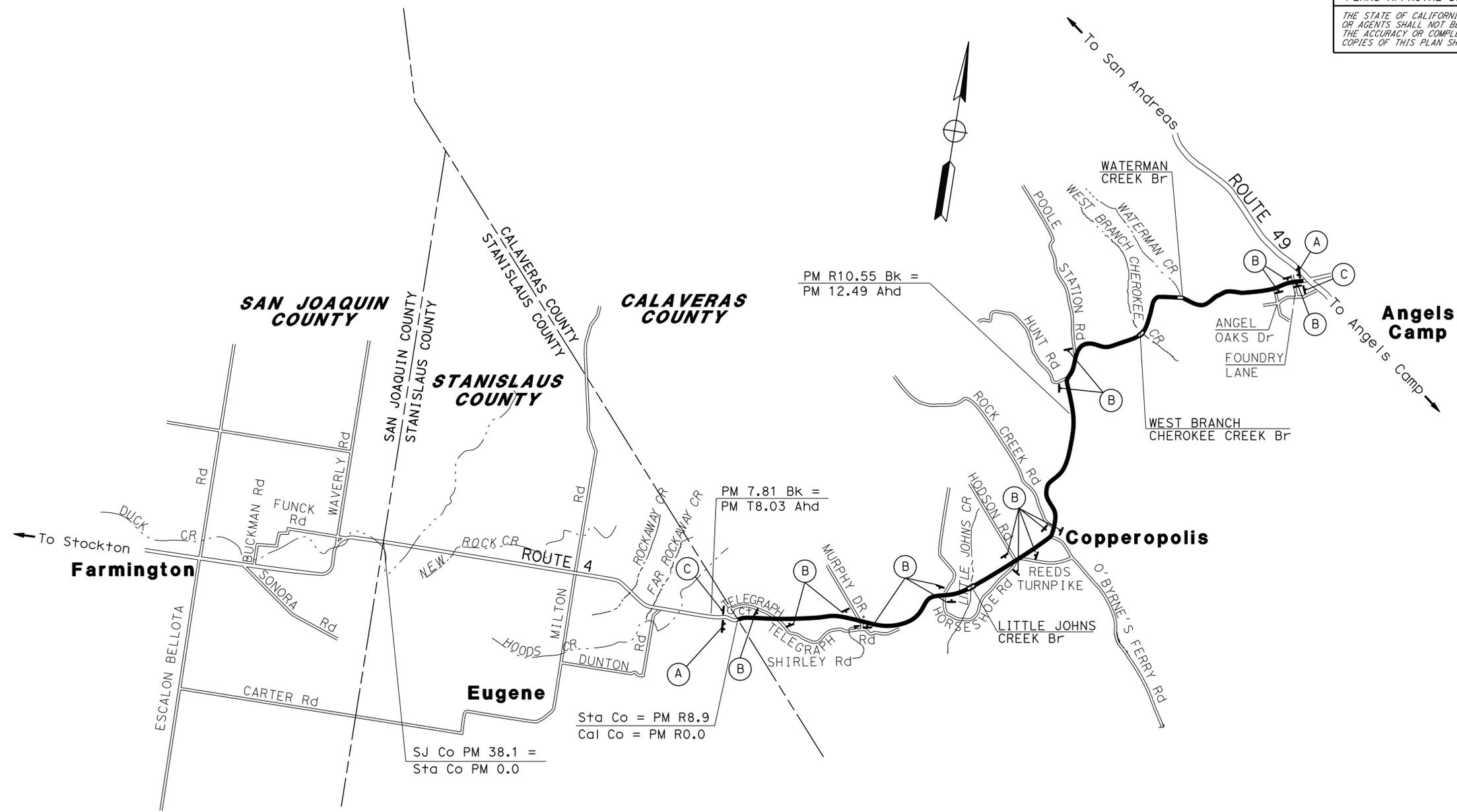
LAST REVISION DATE PLOTTED => 21-JAN-2015
 00-00-00 TIME PLOTTED => 16:46

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Cal	4	R0.0/R21.1	10	19

REGISTERED CIVIL ENGINEER **JOSE A. ALICEA II** No. 64817 Exp. 6/30/15
 DATE 1-5-15
 PLANS APPROVAL DATE 01-05-15

REGISTERED PROFESSIONAL ENGINEER
 STATE OF CALIFORNIA
 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.



STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN	SIGN CODE	PANEL SIZE	No. OF POSTS AND SIZE	No. OF SIGNS	SIGN MESSAGE
(A)	G20-1	60" x 36"	1 - 4" x 6"	2	ROAD WORK NEXT 21 MILES
(B)	W20-1	36" x 36"	1 - 4" x 6"	16	ROAD WORK AHEAD
(C)	G20-2	36" x 18"	1 - 4" x 4"	2	END ROAD WORK

EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.

CONSTRUCTION AREA SIGNS CS-1

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 MAINTENANCE
 FUNCTIONAL SUPERVISOR ALVIN MANGINDIN
 CALCULATED/DESIGNED BY JOSE A. ALICEA II
 CHECKED BY BRUCE SUMIDA
 REVISED BY JAA
 DATE REVISED 01/13/15

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Cal	4	R0.0/R21.1	11	19

REGISTERED CIVIL ENGINEER **JOSE A. ALICEA II** No. 64817 Exp. 6/30/15
 DATE 1-5-15
 PLANS APPROVAL DATE 01-05-15

REGISTERED PROFESSIONAL ENGINEER
 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:

- * - TOTAL INCLUDED IN ROADWAY ITEMS TABLE.
- (N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

CONFORM TAPERS AT MBGR

LOCATION PM / PM	L	W	COLD PLANE AC Pvm† SQYD	RHMA-G TON
R9.20 / R9.40	1060'	26'	3,063	215
R9.72 / R9.92	1060'	26'	3,063	215
R10.36 / R10.48	640'	26'	2,369	166
16.15 / 16.15	82'	26'	237	17
17.60 / 17.60	200'	26'	578	41
R19.55 / R19.68	690'	26'	1,994	140
TOTAL			11,304*	794*

CONFORM TAPERS

LOCATION PM	DESCRIPTION	L	W	COLD PLANE AC Pvm† SQYD	RHMA-G TON
R0.00	Rte 4 (BEGIN CONSTRUCTION)	50'	40'	223	16
R5.89	LITTLE JOHNS CREEK (APPROACH)	230'	40'	1023	72
R5.89	LITTLE JOHNS CREEK (DEPARTURE)	230'	40'	1023	72
R19.08	CONCRETE CROSSING (APPROACH)	50'	40'	223	16
R19.08	CONCRETE CROSSING (DEPARTURE)	50'	40'	223	16
R21.10	Rte 4 (END CONSTRUCTION)	10'	60'	67	5
TOTAL			2782*	197*	

DIKE ITEMS

LOCATION PM / PM	SIDE	REMOVE AC DIKE LF	PLACE HMA DIKE (TYPE E) LF	HMA (TYPE A) TON
R0.00 / R0.27	R+	1,430	1,430	38
R0.35 / R2.47	R+	11,200	11,200	295
R2.54 / R2.82	R+	1,480	1,480	39
R3.05 / R3.21	R+	850	850	23
R3.35 / R3.52	R+	900	900	24
R3.83 / R3.94	R+	590	590	16
R4.21 / R5.54	R+	7,030	7,030	186
R5.76 / R5.90	R+	740	740	20
R5.95 / R6.02	R+	370	370	10
R6.10 / R6.39	R+	1,540	1,540	41
R6.45 / R6.86	R+	2,170	2,170	58
R7.21 / R7.29	R+	430	430	12
R7.60 / R7.79	R+	1,010	1,010	27
18.85 / 18.88	R+	160	160	5
R0.00 / R0.36	L+	1,910	1,910	51
R0.53 / R1.15	L+	3,280	3,280	87
R1.33 / R2.00	L+	3,540	3,540	94
R2.48 / R2.78	L+	1,590	1,590	42
R3.00 / R4.16	L+	6,130	6,130	162
R4.26 / R4.51	L+	1,320	1,320	35
R5.34 / R5.43	L+	480	480	13
R6.04 / R6.10	L+	320	320	9
R6.16 / R6.82	L+	3,490	3,490	92
R7.33 / R7.56	L+	1,220	1,220	33
R7.63 / R8.12	L+	2,590	2,590	69
TOTAL		55,770	55,770	1481*

REPAIR FAILED AREAS

LOCATION PM / PM	SIDE	L	W	COLD PLANE AC Pvm† SQYD	HMA (TYPE A) TON
R8.40 / R9.90	EB/WB	8100'	4'	3600	608
12.90 / 14.50	EB/WB	8600'	4'	3823	645
17.80 / 18.80	EB/WB	5300'	4'	2356	398
TOTAL				9779	1651

REPAIR FAILED AREA LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS, LENGTHS, AND WIDTHS SHALL BE DETERMINED BY THE ENGINEER.

CONFORM TAPERS AT PUBLIC ROAD INTERSECTIONS

LOCATION PM	SIDE	DESCRIPTION	L	W	COLD PLANE AC Pvm† SQYD	HMA (TYPE A) TON
R0.96	L+	TELEGRAPH COURT	145'	25'	403	36
R0.96	R+	TELEGRAPH ROAD	110'	30'	367	33
R2.95	L+	MURPHY DRIVE	56'	68'	424	38
R2.95	R+	SHIRLEY ROAD	54'	30'	180	16
R5.08	L+	HORSESHOE DRIVE	52'	34'	197	18
R5.08	R+	HORSESHOE DRIVE	52'	30'	174	16
R7.32	L+	HODSON ROAD	45'	85'	425	38
R7.32	R+	REEDS TURNPIKE	56'	85'	529	47
R8.14	L+	ROCK CREEK ROAD	145'	32'	516	46
R8.14	R+	O'BYRNE'S FERRY ROAD	85'	30'	284	26
R14.01	L+	HUNT ROAD	60'	20'	134	12
R20.58	R+	ANGLES OAKS DRIVE	60'	40'	267	24
R20.82	L+	FOUNDRY LANE	34'	24'	91	9
R20.82	R+	FOUNDRY LANE	40'	38'	169	15
TOTAL					4160*	374*

**SUMMARY OF QUANTITIES
Q-1**

	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	
±	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	
WWLOL	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
10	Cal	4	RO.0/R21.1	13	19

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 01-05-15

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
∅	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.

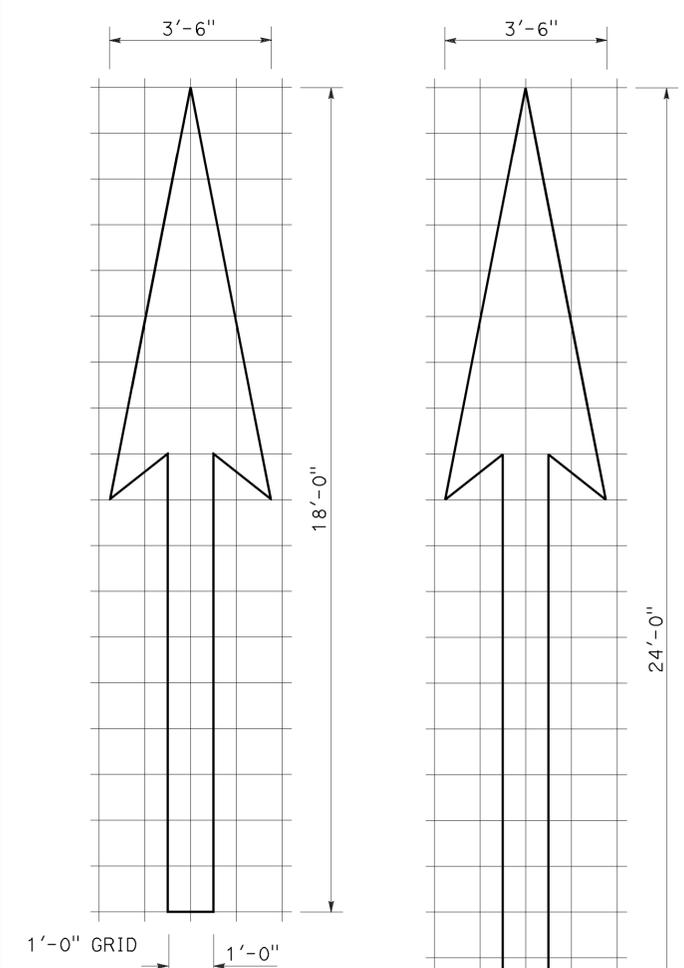
2010 REVISED STANDARD PLAN RSP A10B

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Cal	4	R0.0/R21.1	14	19

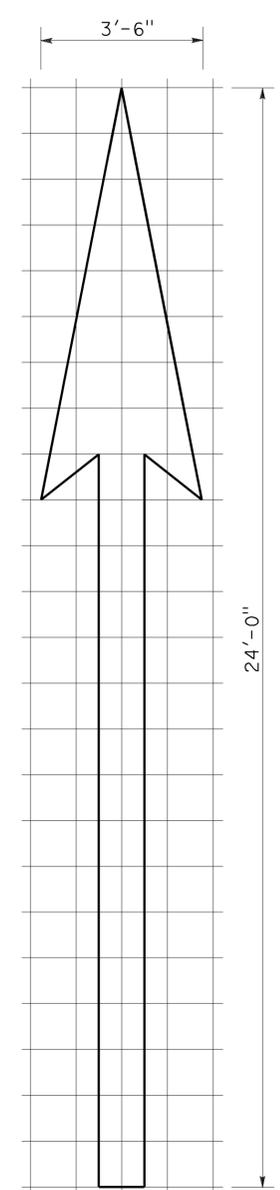
Roberta L. McLaughlin
 REGISTERED CIVIL ENGINEER
 April 20, 2012
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

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

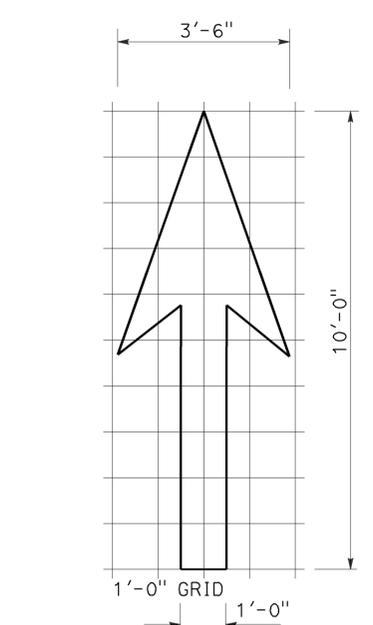
TO ACCOMPANY PLANS DATED 01-05-15



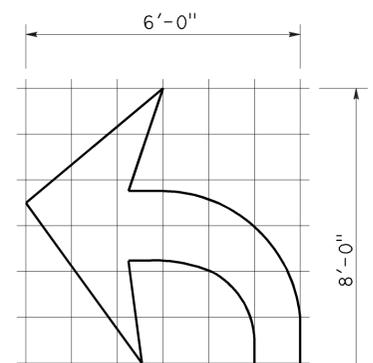
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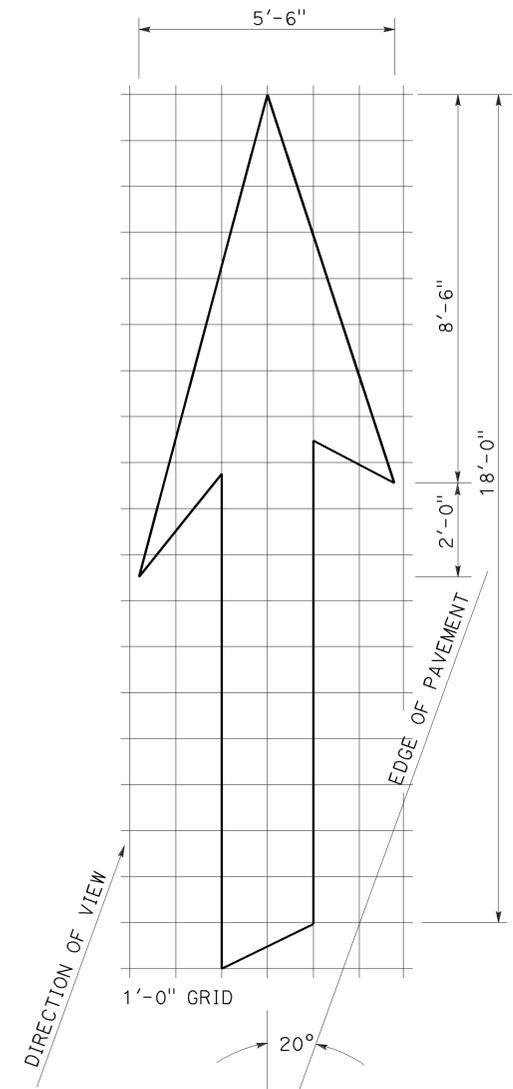
A=31 ft²
TYPE I 24'-0" ARROW



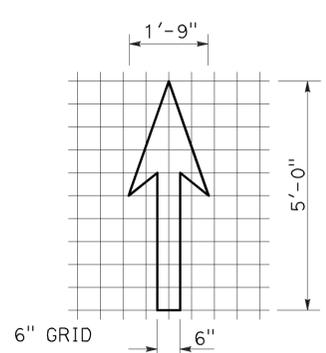
A=14 ft²
TYPE I 10'-0" ARROW



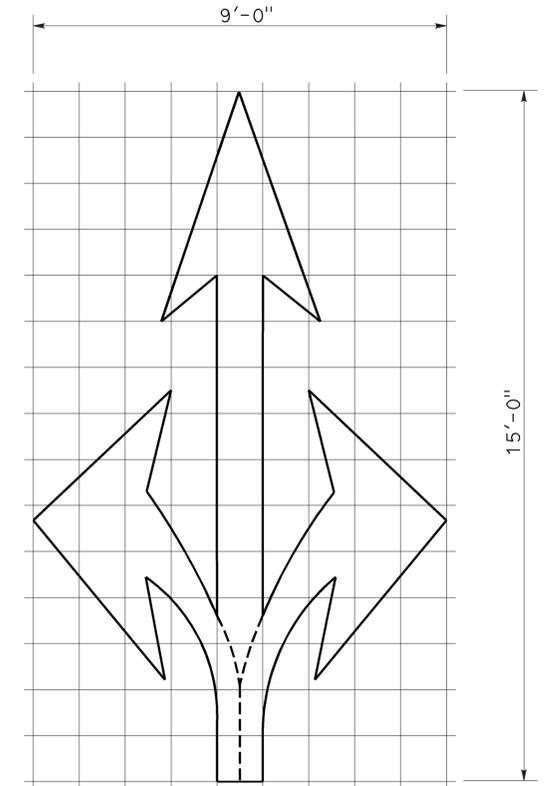
A=15 ft²
TYPE IV (L) ARROW
 (For Type IV (R) arrow, use mirror image)



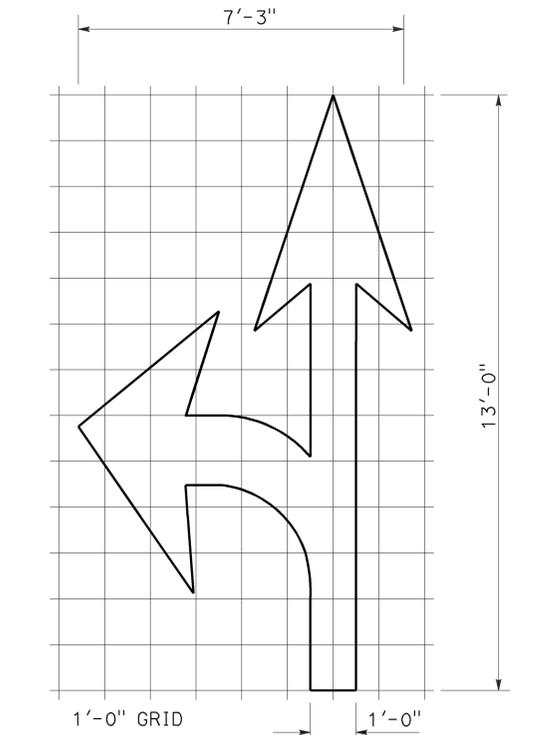
A=42 ft²
TYPE VI ARROW
 Right lane drop arrow
 (For left lane, use mirror image)



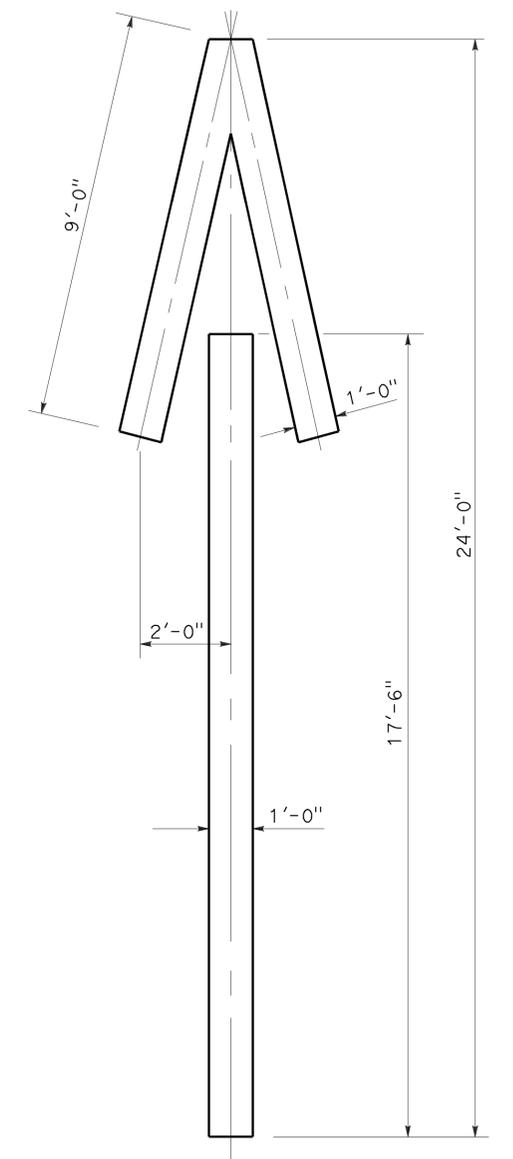
A=3.5 ft²
BIKE LANE ARROW



A=36 ft²
TYPE VIII ARROW



A=27 ft²
TYPE VII (L) ARROW
 (For Type VII (R) arrow, use mirror image)



A=33 ft²
TYPE V ARROW

NOTE:
 Minor variations in dimensions may be accepted by the Engineer.

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

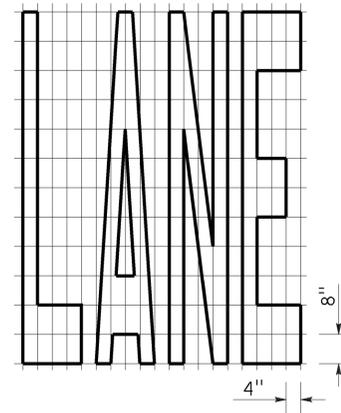
RSP A24A DATED APRIL 20, 2012 SUPERSEDES STANDARD PLAN A24A
 DATED MAY 20, 2011 - PAGE 13 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A24A

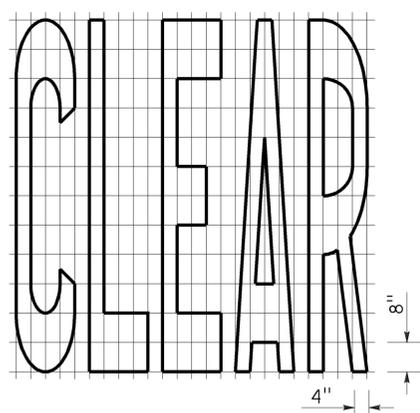
2010 REVISED STANDARD PLAN RSP A24A

TO ACCOMPANY PLANS DATED 01-05-15

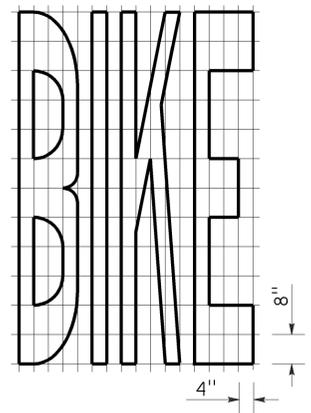
2010 REVISED STANDARD PLAN RSP A24E



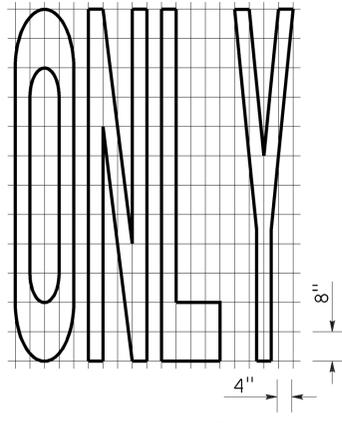
A=24 ft²



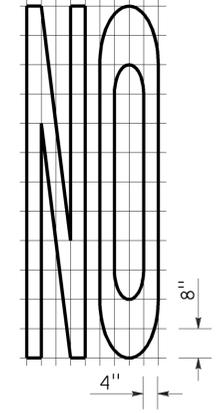
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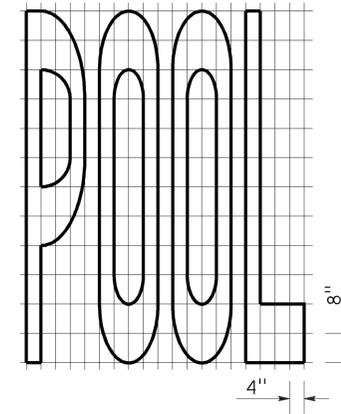
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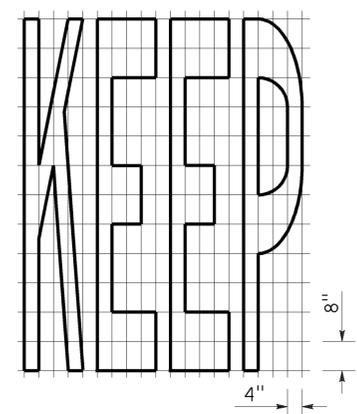
A=22 ft²



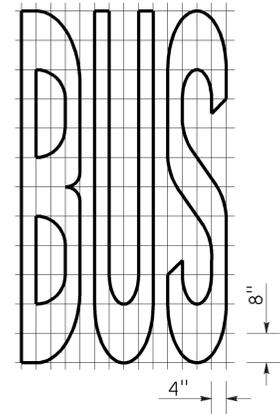
A=14 ft²



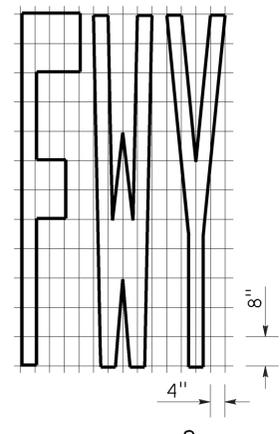
A=23 ft²



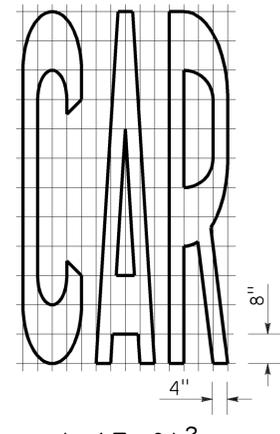
A=24 ft²



A=20 ft²

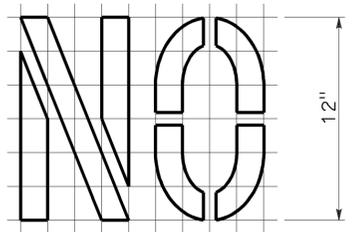


A=16 ft²



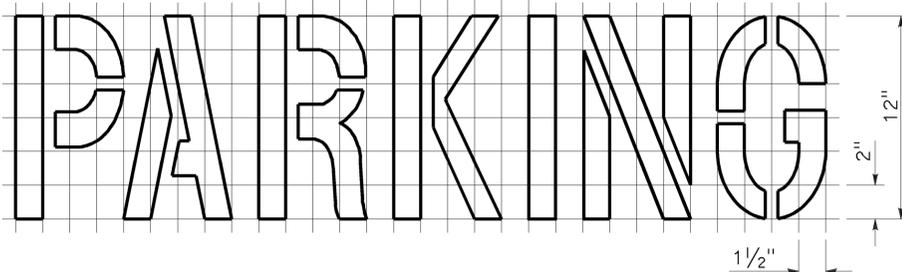
A=17 ft²

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



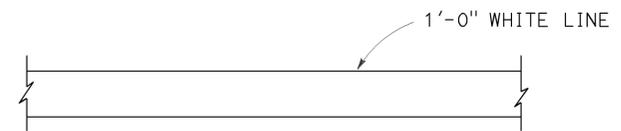
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See Notes 6 and 7

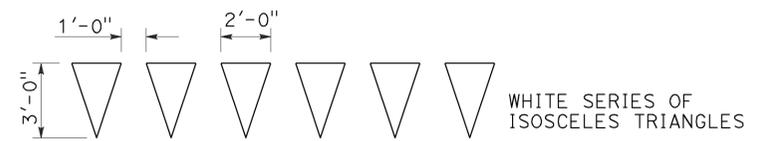


A=2 ft²

See Notes 6 and 7



LIMIT LINE (STOP LINE)



YIELD LINE

NOTES:

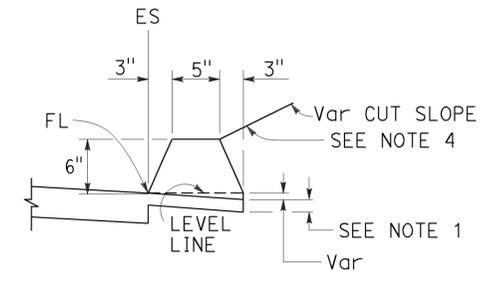
1. If a message consists of more than one word, it should read "UP", i.e., the first word should be nearest the driver.
2. The space between words should be at least four times the height of the characters for low speed roads, but not more than ten times the height of the characters. The space may be 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**

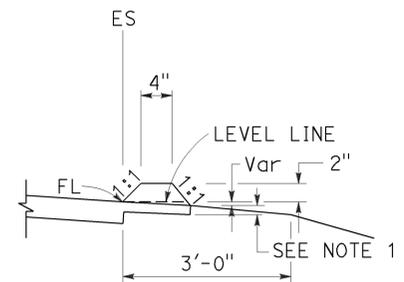
NO SCALE

RSP A24E DATED JULY 20, 2012 SUPERSEDES STANDARD PLAN A24E
DATED MAY 20, 2011 - PAGE 17 OF THE STANDARD PLANS BOOK DATED 2010.

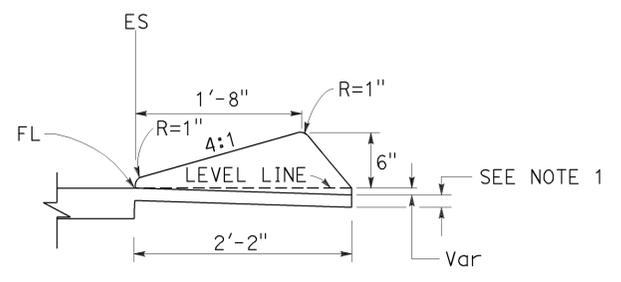
TO ACCOMPANY PLANS DATED 01-05-15



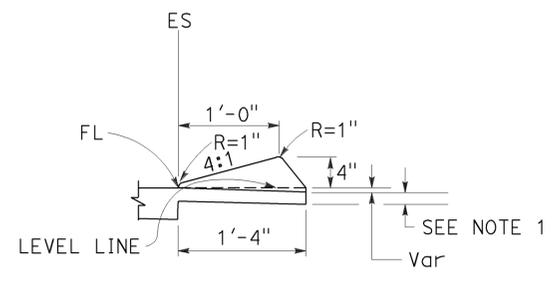
TYPE A
See Note 3



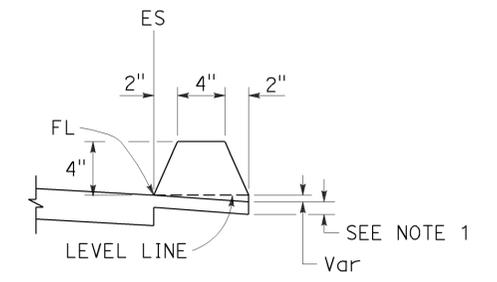
TYPE C



TYPE D

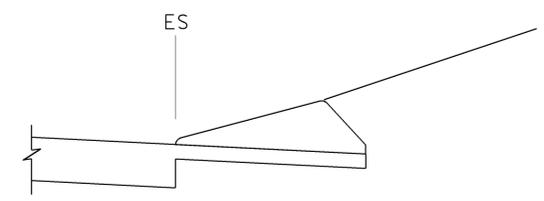


TYPE E

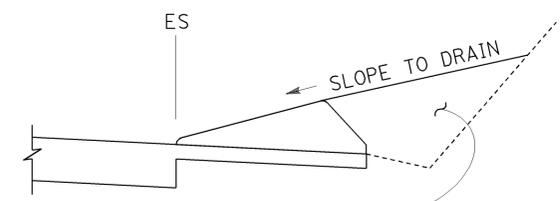


TYPE F
See Note 5

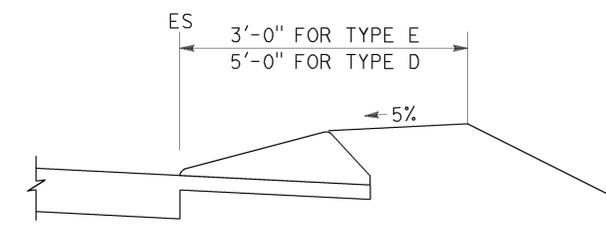
DIKES



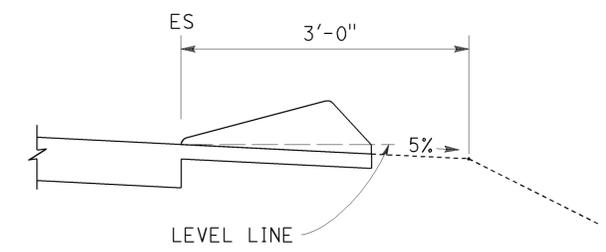
CASE C-1
Cut Slope



CASE C-2
Cut Slope



CASE F



CASE R
See Note 2

TYPE D AND E BACKFILL DETAILS

NOTES:

- For HMA shoulders only, extend top layer of HMA placed on the shoulder under dike with no joint at the ES. For projects with OGFC shoulders, do not extend OGFC under dike. See project plans for modified dike detail.
- Case R applies to retrofit only projects where restrictive conditions do not provide enough width for Case F backfill.
- Type A dike only to be used where restrictive slope conditions do not provide enough width to use Type D or Type E dike.
- Fill and compact with excavated material to top of dike.
- Use Type F dike, where dike is required with guard railing installations. See Revised Standard Plan RSP A77N4 for dike positioning details.

DIKE QUANTITIES

TYPE	CUBIC YARDS PER LINEAR FOOT
A	0.0135
C	0.0038
D	0.0293
E	0.0130
F	0.0066

Quantities based on 5% cross slope.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

HOT MIX ASPHALT DIKES

NO SCALE

RSP A87B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A87B
DATED MAY 20, 2011 - PAGE 120 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A87B

2010 REVISED STANDARD PLAN RSP A87B

TO ACCOMPANY PLANS DATED 01-05-15

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	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
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
 DEPARTMENT OF TRANSPORTATION
**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.

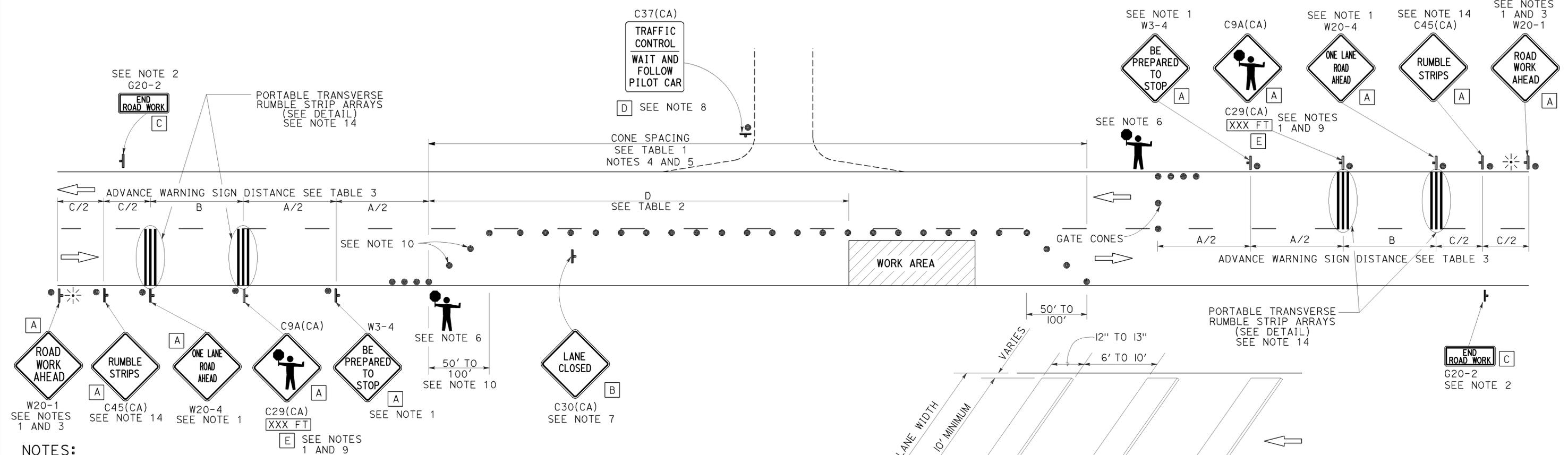
Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

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.

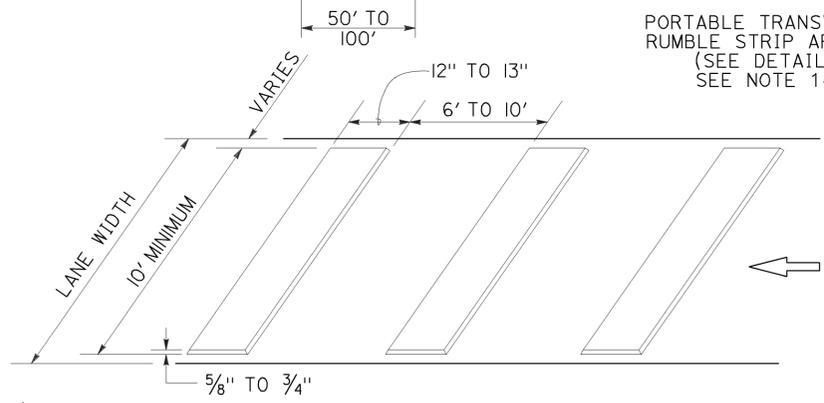
TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL

TO ACCOMPANY PLANS DATED 01-05-15



- 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



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
DEPARTMENT OF TRANSPORTATION

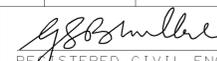
**TRAFFIC CONTROL SYSTEM
FOR LANE CLOSURE ON
TWO LANE CONVENTIONAL
HIGHWAYS**

NO SCALE

RSP T13 DATED OCTOBER 17, 2014 SUPERSEDES 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.

2010 REVISED STANDARD PLAN RSP T13

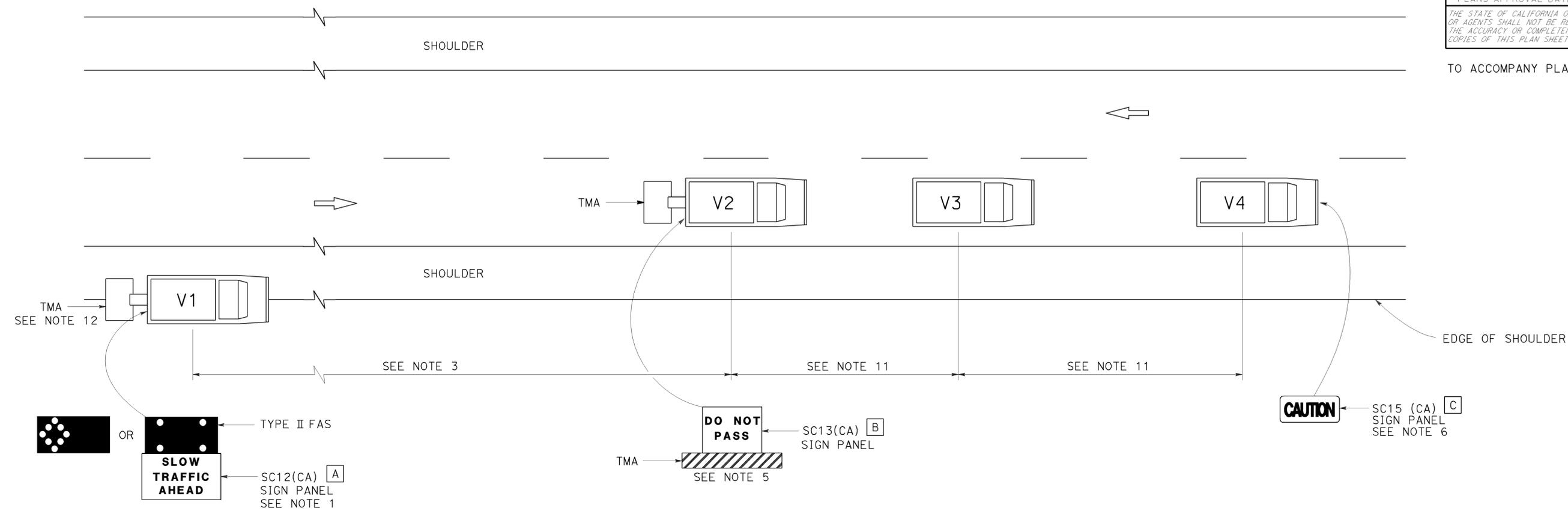
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Cal	4	RO.0/R21.1	19	19


 REGISTERED CIVIL ENGINEER
 April 19, 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.

TO ACCOMPANY PLANS DATED 01-05-15



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