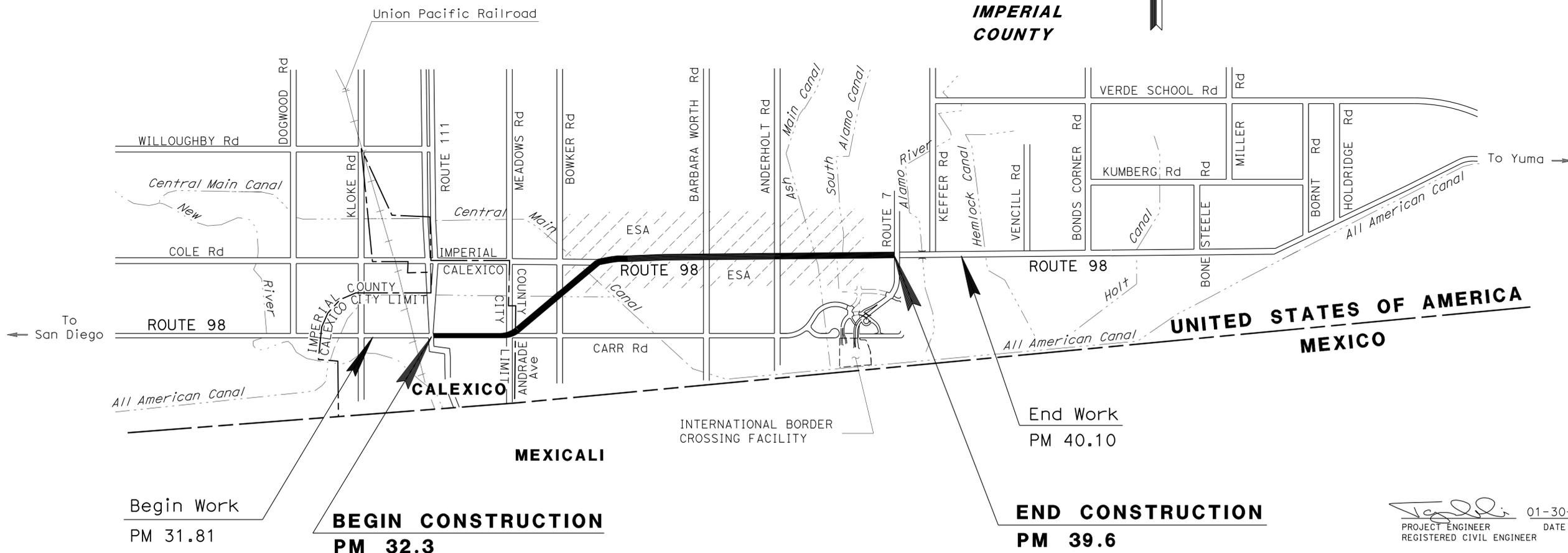
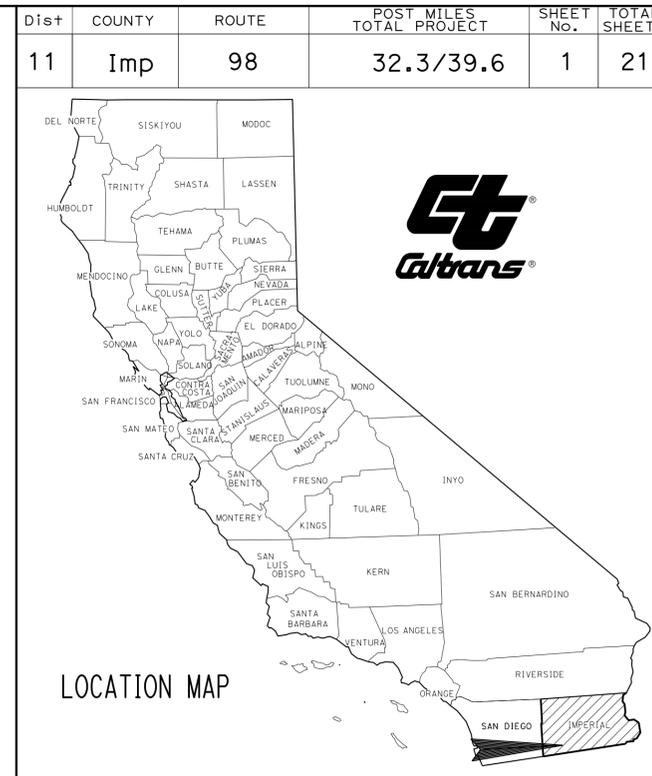


SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	TYPICAL CROSS SECTIONS
3	CONSTRUCTION DETAILS
4	CONSTRUCTION AREA SIGNS
5-9	PAVEMENT DELINEATION DETAILS AND QUANTITIES
10-11	SUMMARY OF QUANTITIES
12-21	REVISED STANDARD PLANS

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

STATE OF CALIFORNIA ACSTP-P098(025)E
DEPARTMENT OF TRANSPORTATION
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN IMPERIAL COUNTY
IN AND NEAR CALEXICO FROM ROUTE 111
TO ROUTE 7

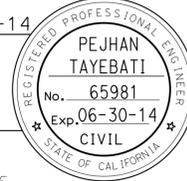
TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010



PROJECT MANAGER
ALBERTO GAYON

DESIGN ENGINEER
PEJHAN TAYEBATI

01-30-14
 PROJECT ENGINEER DATE
 REGISTERED CIVIL ENGINEER
 February 18, 2014
 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

DATE PLOTTED => 20-FEB-2014 TIME PLOTTED => 11:39

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	98	32.3/39.6	2	21
			01-30-14	DATE	
REGISTERED CIVIL ENGINEER					
02-18-14			PLANS APPROVAL DATE		
					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

NOTES:

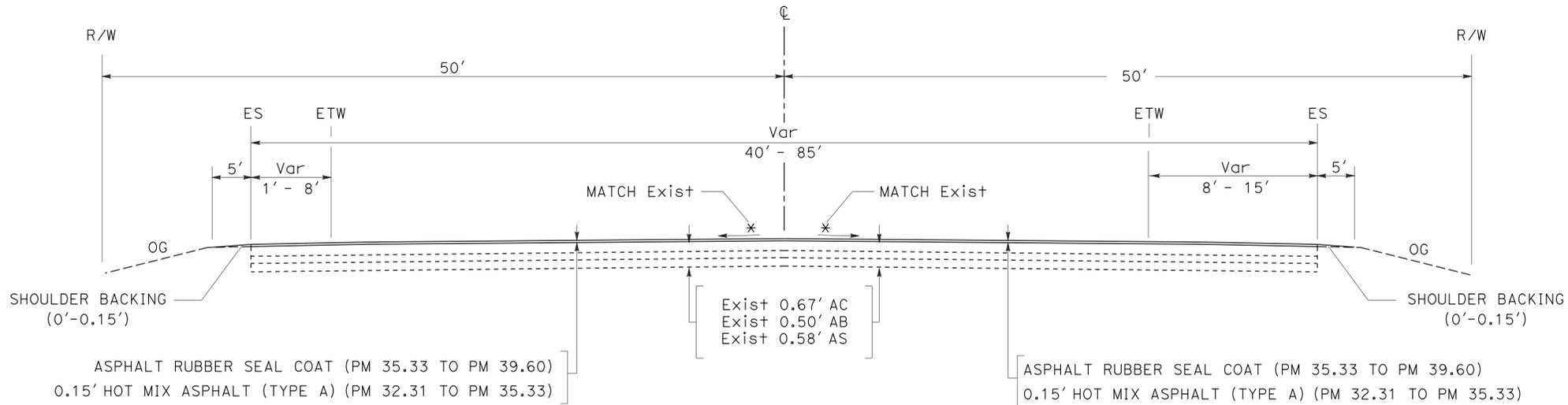
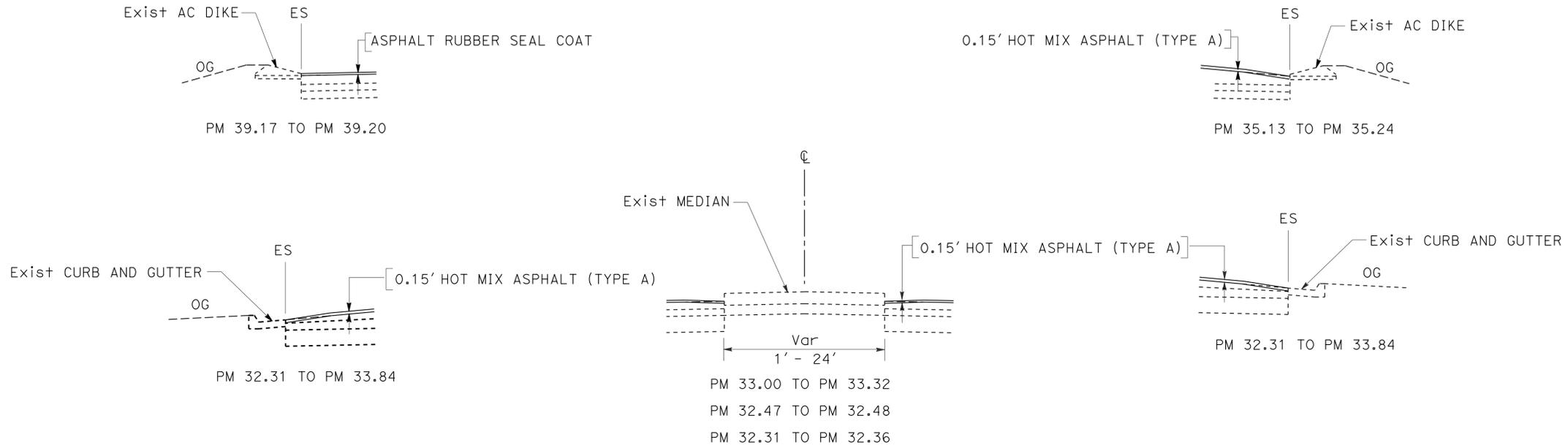
- DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTION) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
- EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
- FOG SEAL COAT SHALL BE APPLIED TO ALL HMA SURFACES EXCEPT TRAVELED WAYS.
- SEE CONSTRUCTION DETAILS FOR CONFORM DETAILS AT BEGIN/END WORK, CROSS ROAD, CURBS, AND RAISED PCC ISLAND.

DESIGN DESIGNATION (ROUTE 98)

2012 ADT = 28000 D = 50.82%
 2035 ADT = 43347 T = 6.5%
 DHV = 3100 V = 35-55 MPH

CLIMATE REGION

DESERT



ROUTE 98
PM 32.31 TO PM 39.60

TYPICAL CROSS SECTIONS

NO SCALE

X-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MAINTENANCE

REVISOR BY KEVIN H VO
DATE

DESIGNED BY PEJHAN TAYEBATI
CHECKED BY

FUNCTIONAL SUPERVISOR ALBERTO GAYON

USERNAME => s127400
DGN FILE => 1113000110cca001.dgn

RELATIVE BORDER SCALE 1" = 10'

UNIT 2773

PROJECT NUMBER & PHASE

11130001101

LAST REVISION DATE PLOTTED => 20-FEB-2014
02-03-14 TIME PLOTTED => 11:39

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	98	32.3/39.6	3	21

REGISTERED CIVIL ENGINEER	DATE
01-30-14	
02-18-14	PLANS APPROVAL DATE

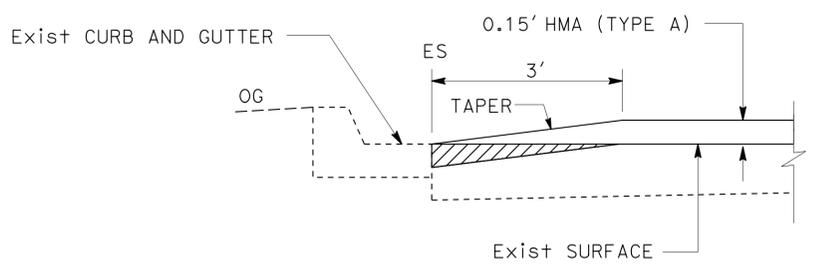
REGISTERED PROFESSIONAL ENGINEER
PEJHAN TAYEBATI
No. 65981
Exp. 6-30-14
CIVIL
STATE OF CALIFORNIA

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.

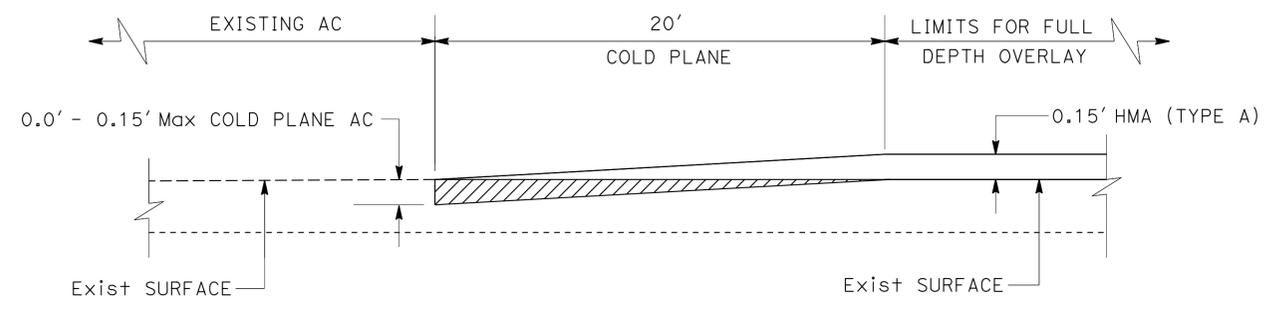
NOTES:

1. COLD PLANE AC PAVEMENT APPLIES TO HMA (TYPE A) ONLY.

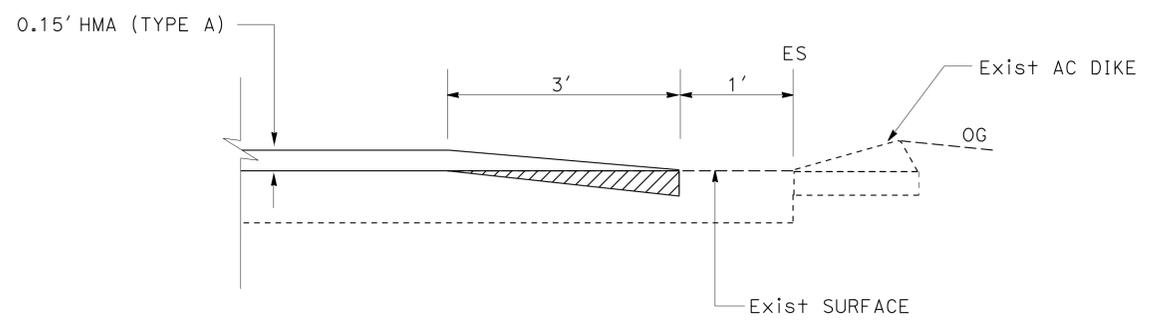
LEGEND:



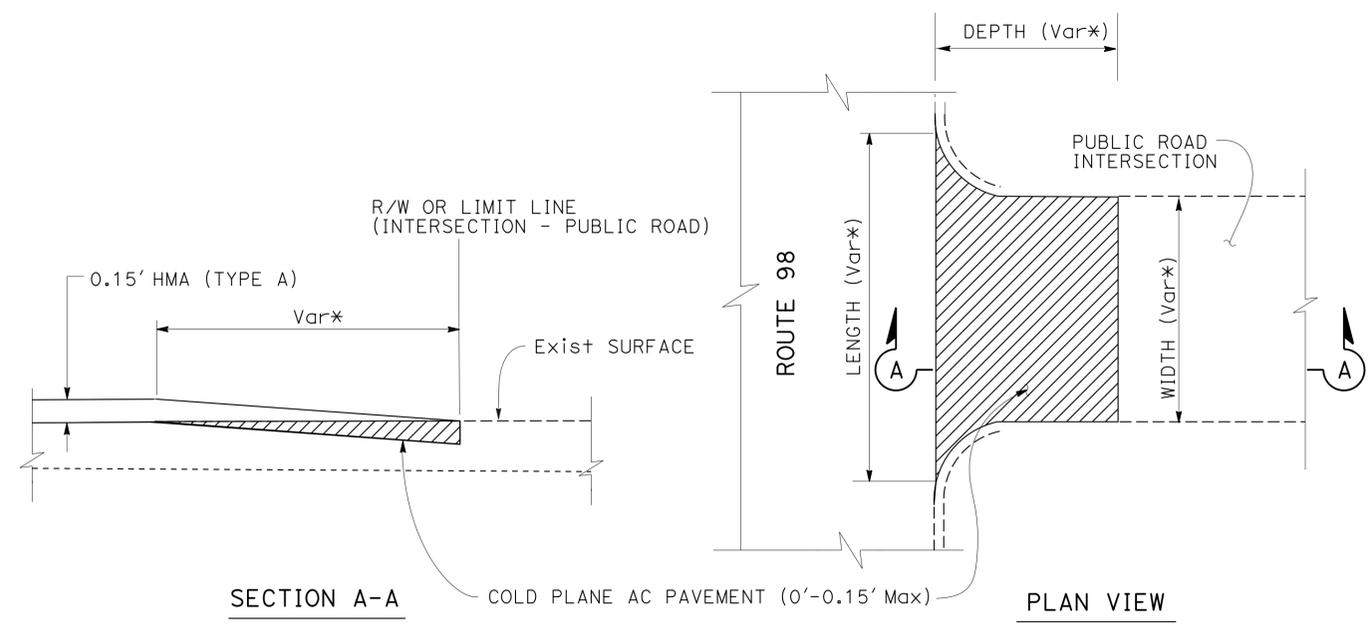
CURB AND GUTTER CONFORM DETAIL



BEGIN/END WORK CONFORM DETAIL

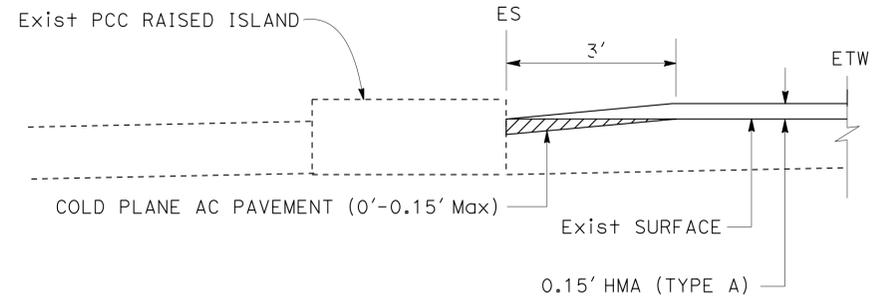


AC DIKE CONFORM DETAIL



CROSSROADS CONFORM DETAIL

* - FOR ACTUAL MEASUREMENTS REFER TO SUMMARY OF QUANTITIES



ISLAND CONFORM DETAIL

CONSTRUCTION DETAILS

NO SCALE

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MAINTENANCE

FUNCTIONAL SUPERVISOR: ALBERTO GAYON

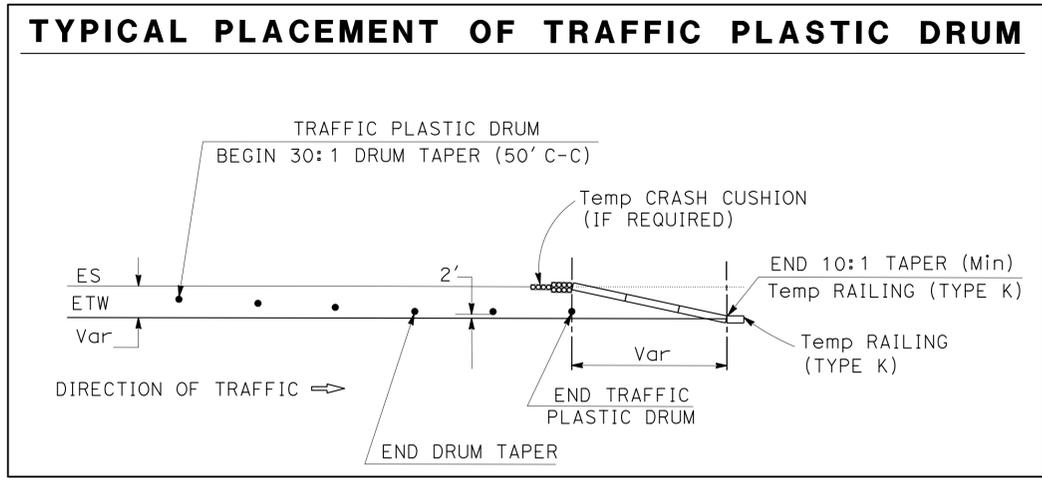
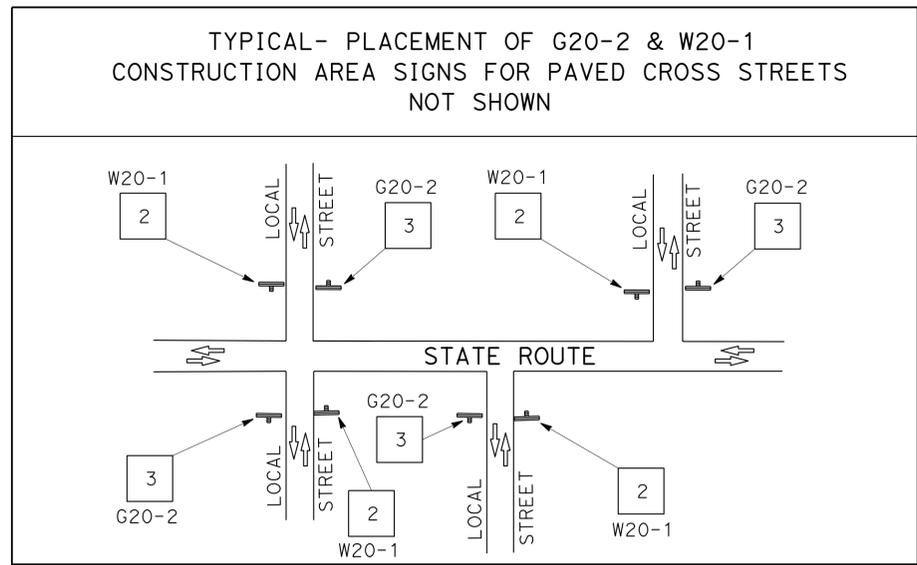
DESIGNED BY: KEVIN H VO

CHECKED BY: PEJHAN TAYEBATI

REVISIONS:

NO.	DATE	DESCRIPTION

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	98	32.3/39.6	4	21
 REGISTERED CIVIL ENGINEER DATE 01-30-14					
02-18-14			PLANS APPROVAL DATE		
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					



CONSTRUCTION AREA SIGNS

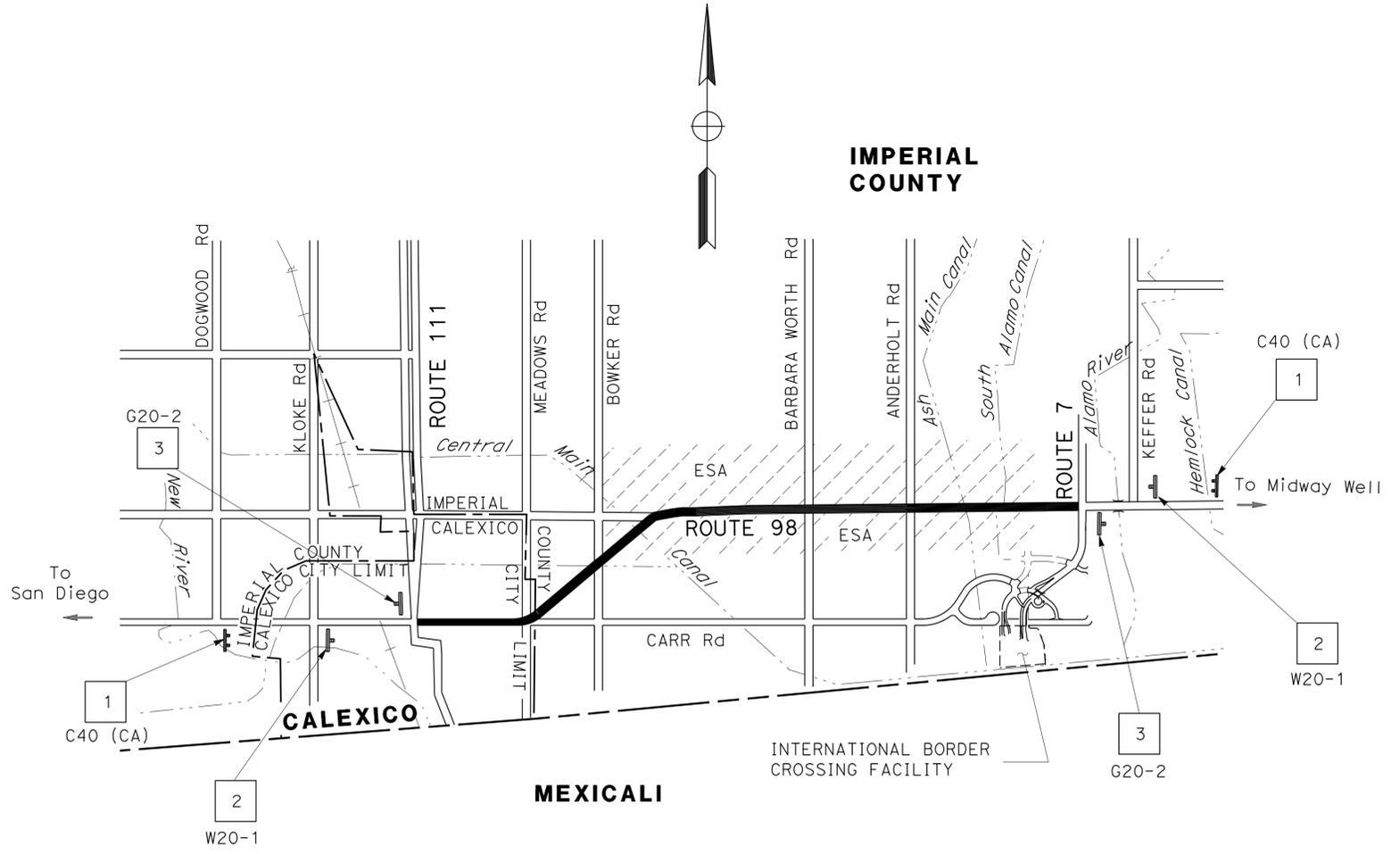
SIGN No.	SIGN CODE	PANEL SIZE	No. OF POSTS AND SIZE	No. OF SIGNS
1	C40 (CA)	108" x 42"	2 - 4" x 6"	2
2	W20-1	48" x 48"	1 - 4" x 6"	30
3	G20-2	48" x 24"	1 - 4" x 4"	28

NOTES:

- EXACT LOCATION OF CONSTRUCTION AREA SIGNS TO BE DETERMINED BY THE ENGINEER.
- FEDERAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SIGN CODES ARE SHOWN UNLESS DESIGNATED BY (CA), INDICATING CALIFORNIA MUTCD.
- EXISTING UTILITIES ARE NOT SHOWN ON THESE PLAN SHEETS. THE CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING UTILITIES AND AVOID IMPACTING THESE EXISTING UTILITIES BY ADJUSTING THE FIELD LOCATION OF THE SIGN POST IN CONSULTATION WITH THE ENGINEER.

LEGEND:

- X = CONSTRUCTION AREA SIGN
- ⇨ = DIRECTION OF TRAVEL



CONSTRUCTION AREA SIGNS
NO SCALE
CS-1

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MAINTENANCE
 FUNCTIONAL SUPERVISOR: ALBERTO GAYON
 CALCULATED/DESIGNED BY: KEVIN H VO
 CHECKED BY: PEJHAN TAYEBATI
 REVISIONS: KEVIN H VO, PEJHAN TAYEBATI
 REVISIONS: DATE, DATE
 REVISIONS: DATE, DATE

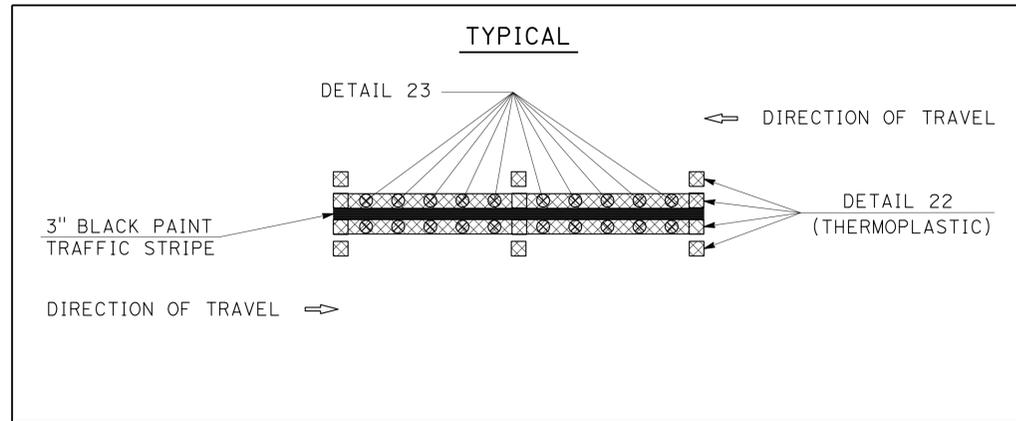
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	98	32.3/39.6	5	21

01-30-14
 REGISTERED CIVIL ENGINEER DATE
 02-18-14
 PLANS APPROVAL DATE

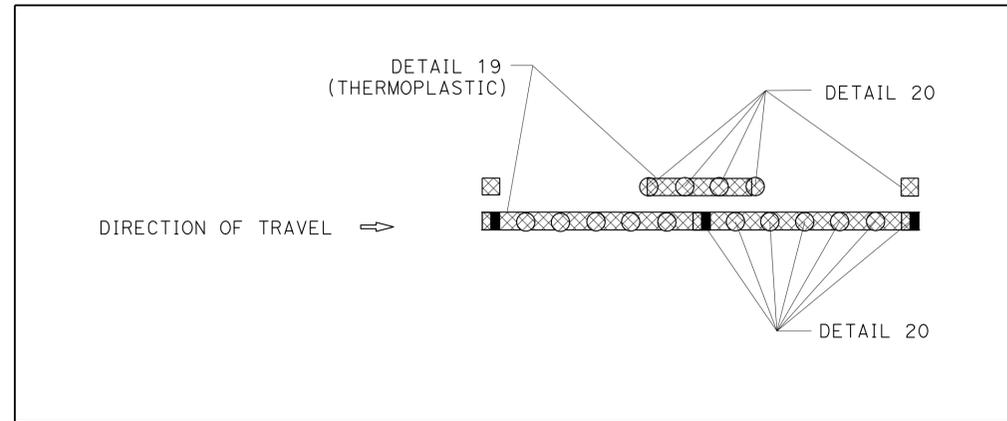
REGISTERED PROFESSIONAL ENGINEER
PEJHAN TAYEBATI
 No. 65981
 Exp. 6-30-14
 CIVIL
 STATE OF CALIFORNIA

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.

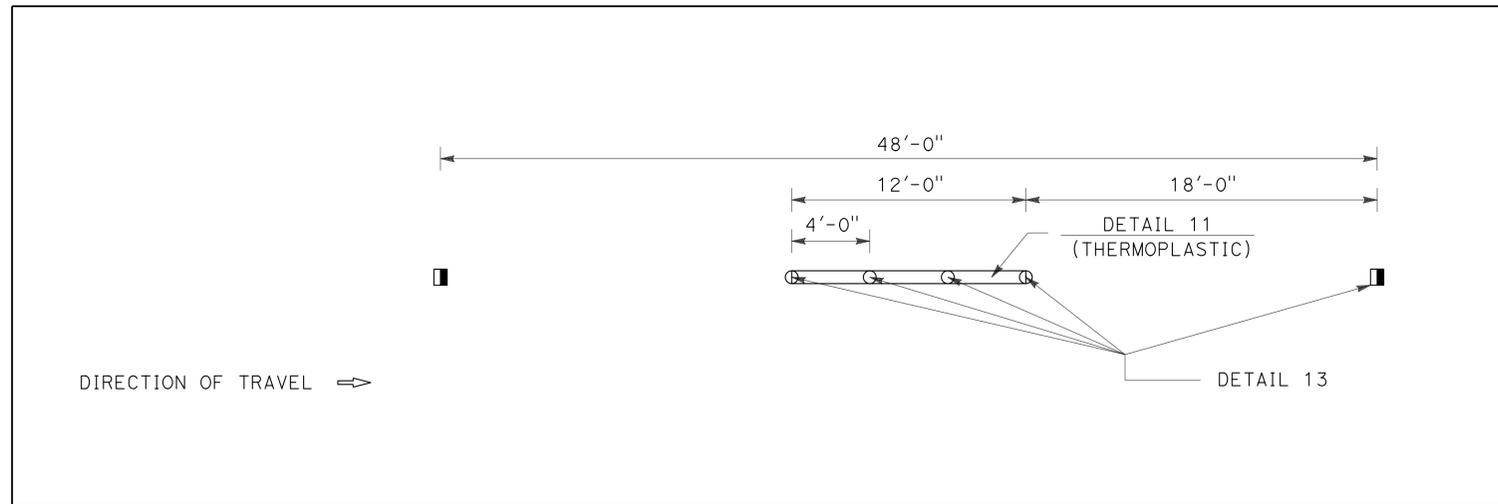
DETAIL 22/ 23 COMBINATION



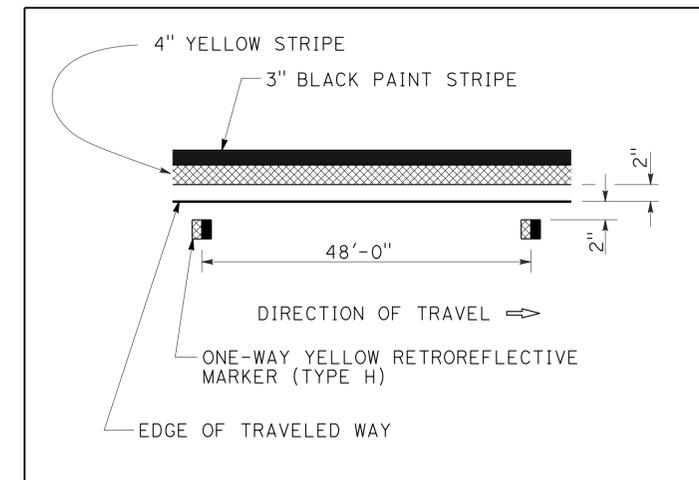
DETAIL 19/ 20 COMBINATION



DETAIL 11/ 13 COMBINATION



DETAIL 25 (Mod)



PAVEMENT DELINEATION DETAILS

NO SCALE

PDD-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	REVISOR	DATE
Caltrans	ALBERTO GAYON	KEVIN H VO	PEJHAN TAYEBATI
MAINTENANCE	CHECKED BY	DESIGNED BY	CHECKED BY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	98	32.3/39.6	6	21

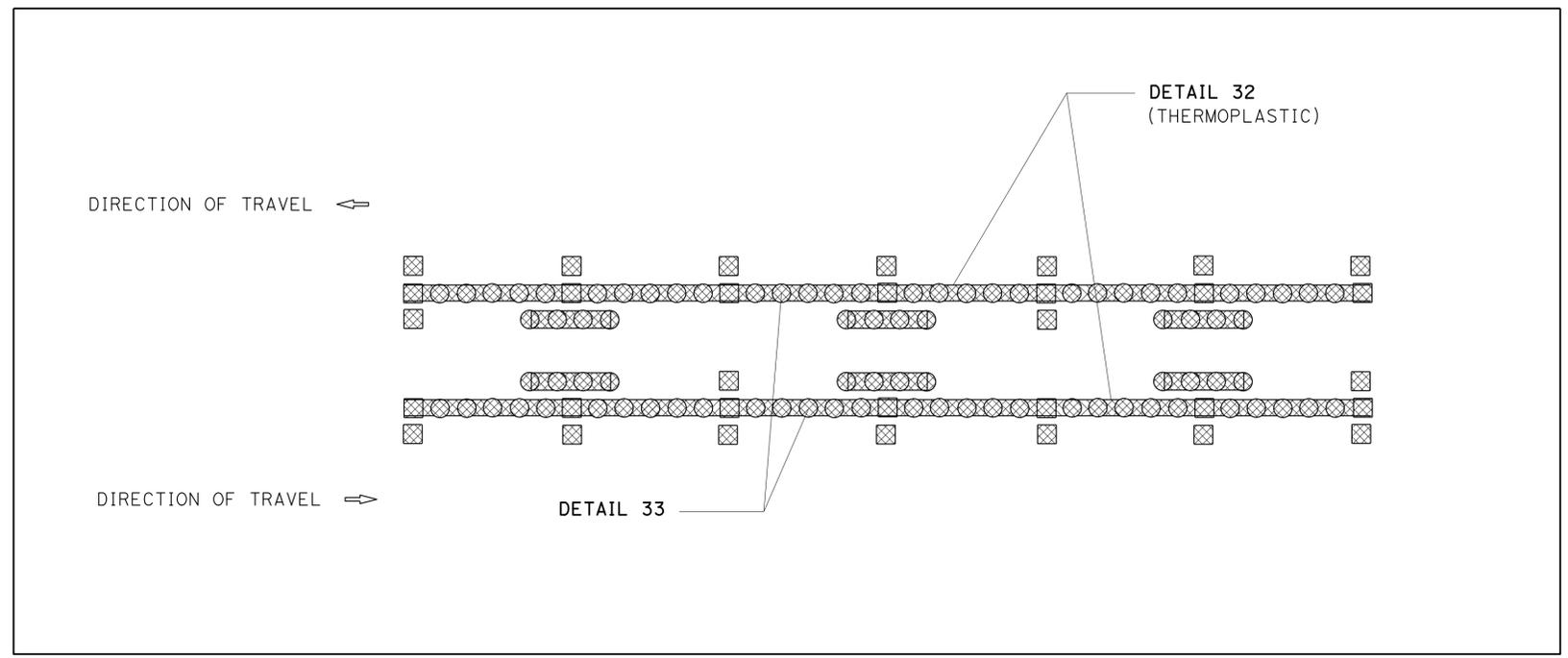
 01-30-14
 REGISTERED CIVIL ENGINEER DATE

02-18-14
 PLANS APPROVAL DATE

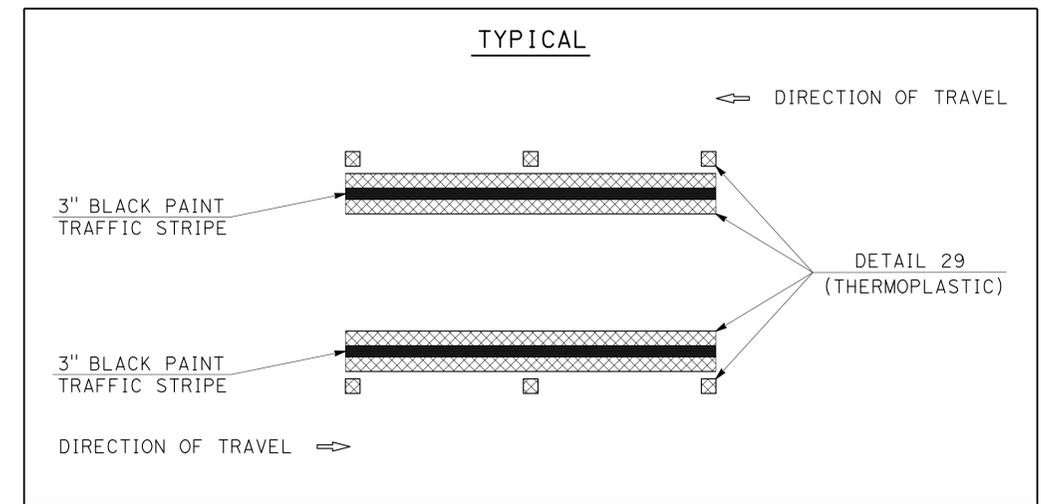
THE STATE OF CALIFORNIA OR ITS OFFICERS
 OR AGENTS SHALL NOT BE RESPONSIBLE FOR
 THE ACCURACY OR COMPLETENESS OF SCANNED
 COPIES OF THIS PLAN SHEET.



DETAIL 32/ 33 COMBINATION



DETAIL 29 (Mod)



PAVEMENT DELINEATION DETAILS

NO SCALE

PDD-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE

FUNCTIONAL SUPERVISOR: ALBERTO GAYON
 DESIGNED BY: KEVIN H VO
 CHECKED BY: PEJHAN TAYEBATI

REVISIONS: (None listed)



REVISOR BY
 KEVIN H VO
 PEJHAN TAYEBATI

DESIGNED BY
 KEVIN H VO
 PEJHAN TAYEBATI

FUNCTIONAL SUPERVISOR
 ALBERTO GAYON

DATE PLOTTED => 20-FEB-2014
 TIME PLOTTED => 11:39

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	98	32.3/39.6	8	21

01-30-14
 REGISTERED CIVIL ENGINEER DATE

02-18-14
 PLANS APPROVAL DATE

PEJHAN TAYEBATI
 No. 65981
 Exp. 6-30-14
 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.

REMOVE THERMOPLASTIC PAVEMENT MARKINGS

ROUTE 98 (PM)	LOCATION	DETAIL/TYPE	AREA (SQFT)
32.32	BEGINS	CROSSWALK AND LIMIT LINE (WHITE)	920
		TYPE III (L) ARROW	168
		TYPE III (R) ARROW	42
		TYPE V ARROW	66
32.37		TYPE III (L) ARROW	84
32.39		TYPE III (L) ARROW	84
32.43		TYPE III (L) ARROW	84
32.47		TYPE III (L) ARROW	42
32.52		TYPE III (L) ARROW	42
32.56		"X" SIGN	26
32.63		TYPE III (L) ARROW	84
32.63		"SLOW SCHOOL XING"	178
32.66		TYPE III (L) ARROW	84
		TYPE III (L) ARROW	84
32.79		TYPE III (L) ARROW	42
32.82		TYPE III (L) ARROW	42
32.85		TYPE III (L) ARROW	84
		CROSS WALK AND LIMIT LINE (WHITE)	76
32.94		TYPE III (L) ARROW	42
32.99		TYPE III (L) ARROW	42
33.05		TYPE III (L) ARROW	84
33.13		"SIGNAL AHEAD"	126
33.18		TYPE III (L) ARROW	84
		TYPE III (R) ARROW	42
33.21		TYPE III (L) ARROW	84
		TYPE III (R) ARROW	42
33.25		TYPE III (L) ARROW	84
		TYPE III (R) ARROW	42
SUBTOTAL 1			2,904

REMOVE THERMOPLASTIC PAVEMENT MARKINGS

ROUTE 98 (PM)	LOCATION	DETAIL/TYPE	AREA (SQFT)
33.28		TYPE III (L) ARROW	42
33.32		TYPE III (L) ARROW	42
33.42		TYPE III (L) ARROW	84
33.49		TYPE III (L) ARROW	42
33.64		TYPE III (R) ARROW	42
33.68		TYPE III (R) ARROW	42
33.73		TYPE III (R) ARROW	42
33.76		TYPE III (L) ARROW	42
33.76		TYPE VI ARROW	126
33.80		TYPE III (L) ARROW	42
33.84		TYPE III (L) ARROW	42
33.94		"SIGNAL AHEAD"	63
34.35		TYPE III (L) ARROW	42
34.39		TYPE III (L) ARROW	42
34.44		TYPE III (L) ARROW	42
34.47		TYPE III (L) ARROW	42
34.51		TYPE III (L) ARROW	42
34.55		TYPE III (L) ARROW	42
35.03		"SIGNAL AHEAD"	63
35.09		TYPE III (L) ARROW	42
35.13		TYPE III (L) ARROW	42
35.16		TYPE III (L) ARROW	42
SUBTOTAL 2			1,092

PAVEMENT DELINEATION QUANTITIES
PDQ-2

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	98	32.3/39.6	9	21

01-30-14
 REGISTERED CIVIL ENGINEER DATE
 02-18-14
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 PEJHAN TAYEBATI
 No. 65981
 Exp. 6-30-14
 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.

REMOVE THERMOPLASTIC PAVEMENT MARKINGS

ROUTE 98 (PM)	LOCATION	DETAIL/TYPE	AREA (SQFT)
35.18	E COLE St	CROSSWALK AND LIMIT LINE (WHITE)	48
35.23		TYPE III (R) ARROW	126
35.36		"SIGNAL AHEAD"	63
35.77		TYPE I 10'-0" ARROW	14
35.78		TYPE VI ARROW	126
35.85		TYPE I 10'-0" ARROW	14
36.57		TYPE III (L) ARROW	42
36.62		TYPE III (L) ARROW	42
36.63	BARBARA WORTH Rd	CROSSWALK AND LIMIT LINE (WHITE)	70
36.63		"STOP"	44
36.63		TYPE III (L) ARROW	84
37.11		TYPE I 10'-0" ARROW	42
37.18		TYPE VI ARROW	126
37.63		CROSSWALK AND LIMIT LINE (WHITE)	90
39.03		"SIGNAL AHEAD"	63
39.05		TYPE III (R) ARROW	42
39.11		TYPE III (R) ARROW	42
39.16		TYPE III (R) ARROW	42
39.18	MENVIELLE Rd	CROSSWALK AND LIMIT LINE (WHITE)	60
39.19		TYPE III (L) ARROW	42
39.24		TYPE III (L) ARROW	42
39.30		TYPE III (L) ARROW	42
39.31		"SIGNAL AHEAD"	63
39.46		TYPE III (R) ARROW	84
39.53		TYPE III (R) ARROW	84
		TYPE III (L) ARROW	42
		TYPE V ARROW	33
		TYPE VI ARROW	42
39.57		TYPE III (R) ARROW	84
		TYPE III (L) ARROW	42
		TYPE V ARROW	33
		TYPE VI ARROW	42
39.61		TYPE VI ARROW	42
39.63		TYPE III (R) ARROW	84
		TYPE III (L) ARROW	42
		TYPE V ARROW	33
39.63		CROSSWALK AND LIMIT LINE (WHITE)	50
		SUBTOTAL	2,106
		SUBTOTAL 1	2,904
		SUBTOTAL 2	1,092
		TOTAL	6,102

REMOVE YELLOW THERMOPLASTIC PAVEMENT MARKING (HAZARDOUS WASTE)

ROUTE 98 (PM)	LOCATION	DETAIL/TYPE	AREA (SQFT)
32.47	ROCKWOOD Ave	CROSSWALK AND LIMIT LINE (YELLOW)	336
32.70	PERRY Ave	CROSSWALK AND LIMIT LINE (YELLOW)	140
32.91	ENCINAS Ave	CROSSWALK AND LIMIT LINE (YELLOW)	152
33.27	ANDRADE Ave	CROSSWALK AND LIMIT LINE (YELLOW)	824
33.75	E RIVERA St	CROSSWALK AND LIMIT LINE (YELLOW)	584
		TOTAL	2,036

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 MAINTENANCE
 FUNCTIONAL SUPERVISOR ALBERTO GAYON
 CALCULATED/DESIGNED BY CHECKED BY
 KEVIN H VO PEJHAN TAYEBATI
 REVISED BY DATE REVISED

PAVEMENT DELINEATION QUANTITIES PDQ-3



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	98	32.3/39.6	10	21

01-30-14
REGISTERED CIVIL ENGINEER DATE

02-18-14
PLANS APPROVAL DATE

PEJHAN TAYEBATI
No. 65981
Exp. 6-30-14
CIVIL

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CROSSROAD COLD PLANE QUANTITIES

ROUTE 98		LENGTH		DEPTH	PAVED AREA	ASPHALT RUBBER SEAL COAT			HOT MIX ASPHALT (TYPE A)			REMARKS	
		EB	WB			ASPHALT-RUBBER BINDER	PRECOATED SCREENINGS	SAND COVER (SEAL)	COLD PLANE AC PAVEMENT	HMA (TYPE A)	TACK COAT		
													PM
32.39	PAULIN Ave	45		15	675					75.00	7.28	0.01	
32.46	ROCKWOOD Ave	40		15	600					66.67	6.47	0.00	
32.61	HEBER Ave	45		15	675					75.00	7.28	0.01	COLD PLANE UP TO LIMIT LINE
32.67	C N PERRY Ave	45		15	675					75.00	7.28	0.01	
32.78	BLAIR Ave	50		15	750					83.33	8.08	0.01	
32.92	ENCINAS Ave	90		15	1,350					150.00	14.55	0.01	COLD PLANE UP TO LIMIT LINE
33.06	RANCHO FRONTERA Ave		90	15	1,350					150.00	14.55	0.01	
33.25	ANDRADE Ave	90	90	15	2,700					300.00	29.10	0.02	COLD PLANE UP TO LIMIT LINE
34.43	E RIVERA St	100		15	1,500					166.67	16.17	0.01	COLD PLANE UP TO LIMIT LINE
34.46	BOWKER Rd	90	90	10	1,800					200.00	19.40	0.01	
35.20	E COLE Rd		70	20	1,400					155.56	15.09	0.01	
36.63	BARBARA WORTH Rd	40	40	30	2,400	0.62	5.33	0.53					
37.63	ANDERHOLT Rd	40	40	35	2,800	0.72	6.22	0.62					
38.69	MENVIELLE Rd	90		20	1,800	0.47	4.00	0.40					
SUBTOTAL 1						1.81	15.55	1.55	1,497.23	145.25	0.11		

[N] - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

ROADWAY COLD PLANE QUANTITIES

ROUTE 98	WIDTH (LF) [N]		LENGTH (LF) [N]	COLD PLANE AC PAVEMENT	REMARKS
LOCATIONS - PM	BEGIN	END		SQYD	
32.31	32.31	32.32	20.00	222.22	BEGIN WORK
32.31	32.31	32.36	264	176.00	ISLAND
32.31	32.31	33.84	8078.4	2,692.80	EB CURB AND GUTTER
32.47	32.47	32.48	52.8	35.20	ISLAND
33.00	33.00	33.32	1689.6	1,126.40	ISLAND
32.31	32.31	33.84	8078.4	2,692.80	WB CURB AND GUTTER
SUBTOTAL				6,945.42	
(FROM CROSSROAD COLD PLANE QUANTITIES) SUBTOTAL 1				1,497.23	
TOTAL				8,442.65	

[N] - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

SHOULDER BACKING

DIRECTION	BEGIN PM	END PM	LENGTH	DEPTH	TON
			LF [N]	LF [N]	
WB/EB	33.84	35.13	6,811.20	0.30	370.36
WB/EB	35.24	39.17	20,750.40	0.30	1,128.30
WB/EB	39.20	39.60	2,112.00	0.30	114.84
TOTAL					1,613.50

[N] - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

SUMMARY OF QUANTITIES
Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
MAINTENANCE
FUNCTIONAL SUPERVISOR ALBERTO GAYON
CALCULATED/DESIGNED BY KEVIN H VO
CHECKED BY PEJHAN TAYEBATI
REVISED BY DATE REVISOR

LAST REVISION DATE PLOTTED => 20-FEB-2014 11:39
02-03-14 TIME PLOTTED => 11:39

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	98	32.3/39.6	11	21

01-30-14
REGISTERED CIVIL ENGINEER DATE

02-18-14
PLANS APPROVAL DATE

PEJHAN TAYEBATI
No. 65981
Exp. 6-30-14
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.

ROADWAY QUANTITIES

LOCATION			LENGTH	EP TO EP	PAVED AREA	SHOULDER WIDTH		SHOULDER AREA	ASPHALT RUBBER SEAL COAT				HOT MIX ASPHALT (TYPE A)		
						WB	EB		ASPHALT-RUBBER BINDER	ASPHALTIC EMULSION (FOG SEAL COAT)	PRECOATED SCREENINGS	SAND COVER (SEAL)	HMA (TYPE A)	TACK COAT	
ROUTE	FROM PM	TO PM	LF [N]	LF [N]	SQFT [N]	LF [N]		SQFT [N]	TON	TON	TON	TON	TON	TON	
98	32.30	32.36	330	100	33,000								355.67	0.25	
	32.35	32.36	50	100-76	4,400								47.42	0.03	
	32.36	32.93	3,000	76	228,000								2,457.33	1.76	
	32.93	33.14	1,100	76-92	92,400	5	5	11,000		0.25			995.87	0.71	
	33.14	33.16	100	92-100	9,600	5	5-1	800		0.02			103.47	0.07	
	33.15	33.34	1,000	100	100,000	8-1	1-8	9,000		0.20			1,077.78	0.77	
	33.34	33.36	100	100-76	8,800	1	8	1,300		0.03			94.84	0.07	
	33.36	33.61	1,300	76	98,800	8	8	10,400		0.24			1,064.84	0.76	
	33.61	33.63	100	76-83	7,950	8	1-8	1,250		0.03			85.68	0.06	
	33.63	33.84	1,100	83-75	86,900	8	8-15	21,450		0.49			936.59	0.67	
	33.84	33.93	500	75-44	29,750	8	15-8	9,750		0.22			320.64	0.23	
	33.93	34.18	1,300	44	57,200	8	8	20,800		0.47			616.49	0.44	
	34.18	34.33	800	44-52	38,400	8	8	12,800		0.29			413.87	0.30	
	34.33	34.58	1,300	52	67,600	8	8	20,800		0.47			728.58	0.52	
	34.57	34.78	1,100	52-40	50,600	8	8	17,600		0.40			545.36	0.39	
	34.78	34.97	1,000	40	40,000	8	8	16,000		0.36			431.11	0.31	
	34.97	35.08	600	40-52	27,600	8	8	9,600		0.22			297.47	0.21	
	35.09	35.22	700	52-64	40,600	8	8	11,200		0.25			437.58	0.31	
	35.22	35.33	600	64-40	31,200	8	8	9,600		0.22			336.27	0.24	
	35.33	35.39	300	40	12,000	8	8	4,800	3.10	0.11	26.67	2.67			
	35.39	35.96	3,000	52	156,000	8	8	48,000	40.30	1.09	346.67	34.67			
	35.96	36.41	2,400	40	96,000	8	8	38,400	24.80	0.87	213.33	21.33			
	36.41	36.58	900	40-52	41,400	8	8	14,400	10.70	0.33	92.00	9.20			
	36.58	36.77	1,000	52-40	46,000	8	8	16,000	11.88	0.36	102.22	10.22			
	36.77	36.88	600	40	24,000	8	8	9,600	6.20	0.22	53.33	5.33			
	36.89	37.08	1,000	40-52	46,000	8	8	16,000	11.88	0.36	102.22	10.22			
	37.07	37.60	2,800	52	145,600	8	8	44,800	37.61	1.02	323.56	32.36			
	37.60	38.85	6,600	40	264,000	8	8	105,600	68.20	2.40	586.67	58.67			
	38.85	39.00	770	40-60	38,500	8	8	12,320	9.95	0.28	85.56	8.56			
	39.00	39.16	850	60-65	53,125	8	8	13,600	13.72	0.31	118.06	11.81			
	39.16	39.39	1,240	55-62	72,540	8	8	19,840	18.74	0.45	161.20	16.12			
	39.40	39.43	150	62-65	9,525	8	8-5	2,175	2.46	0.05	21.17	2.12			
	39.43	39.60	1,000	85	85,000	8	5	13,000	21.96	0.29	188.89	18.89			
SUBTOTAL									281.50	12.30	2,421.55	242.17	11,346.86	8.10	
(FROM CROSSROAD COLD PLANE QUANTITIES)									SUBTOTAL 1	1.81		15.55	1.55	145.25	0.11
TOTAL									283.31	12.30	2,437.10	243.72	11,492.11	8.21	

[N] - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

SUMMARY OF QUANTITIES

Q-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MAINTENANCE
 Kevin H. Vo
 PEJHAN TAYEBATI
 ALBERTO GAYON

LAST REVISION DATE PLOTTED => 20-FEB-2014
 02-03-14 TIME PLOTTED => 11:39

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	98	32.3/39.6	12	21

Grace M. Tsushima
REGISTERED CIVIL ENGINEER

July 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 02-18-14

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.

REVISED STANDARD PLAN RSP A10B

	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

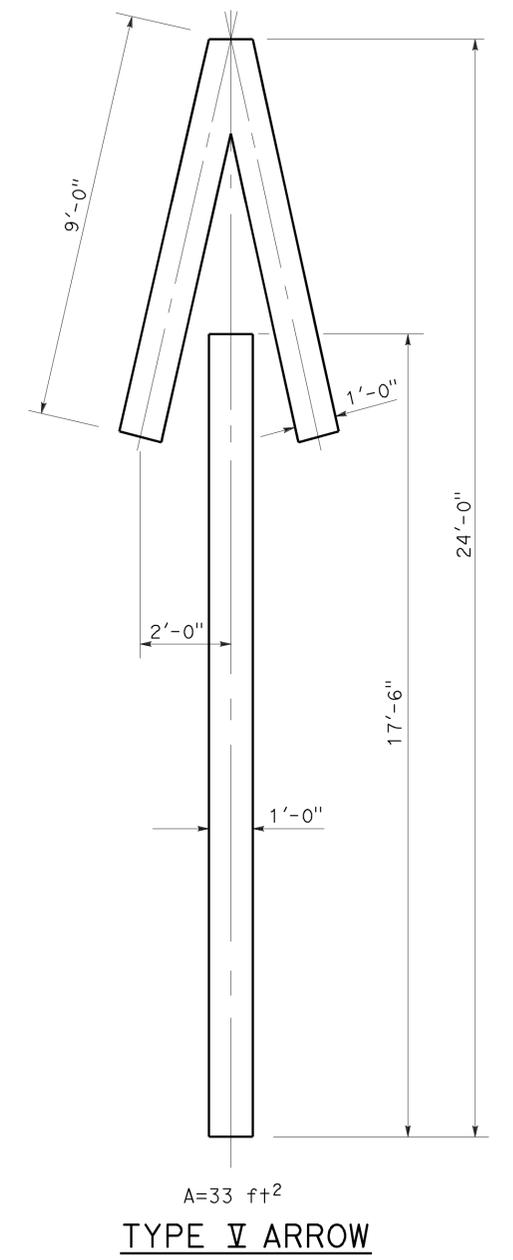
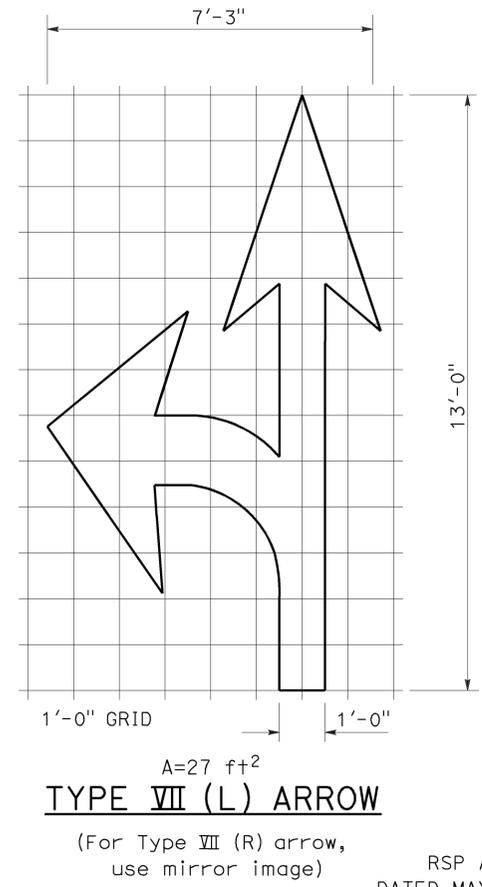
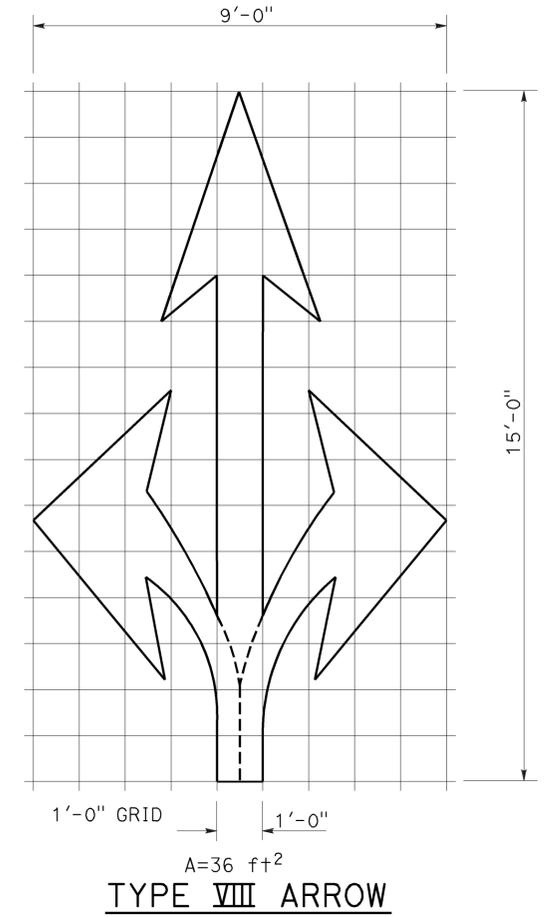
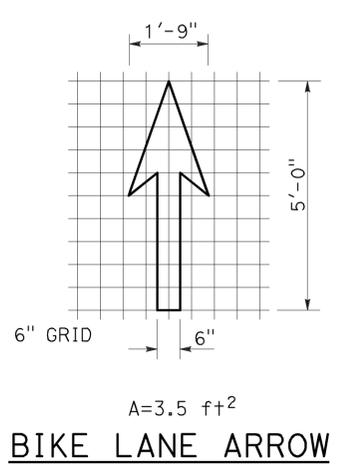
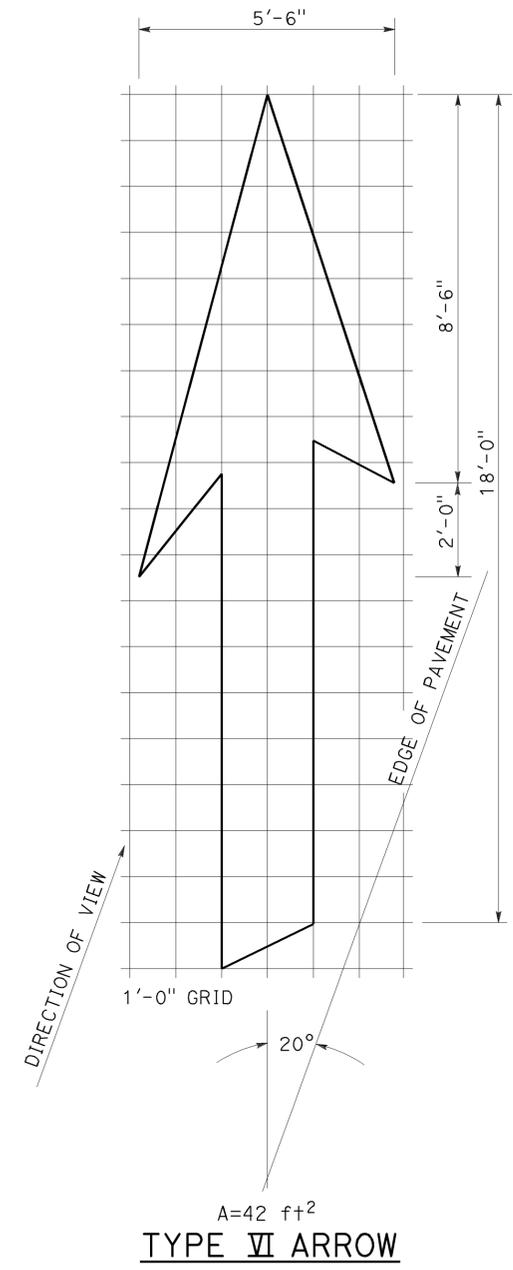
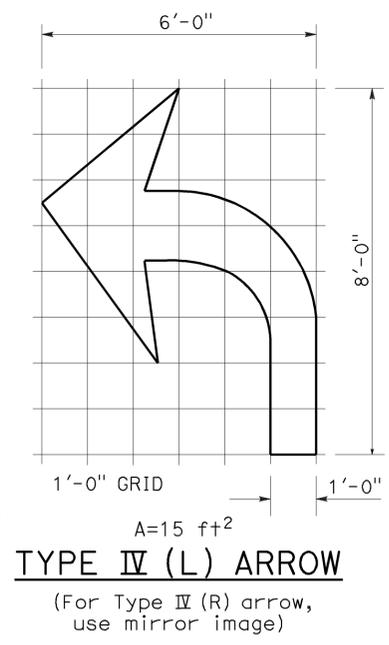
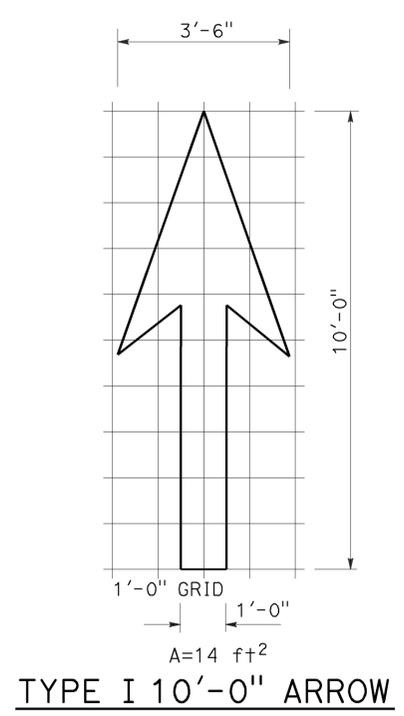
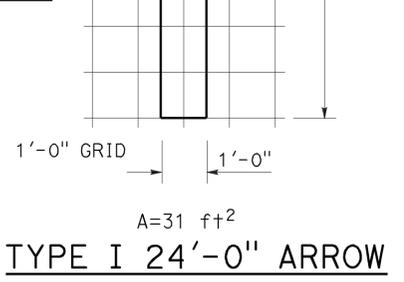
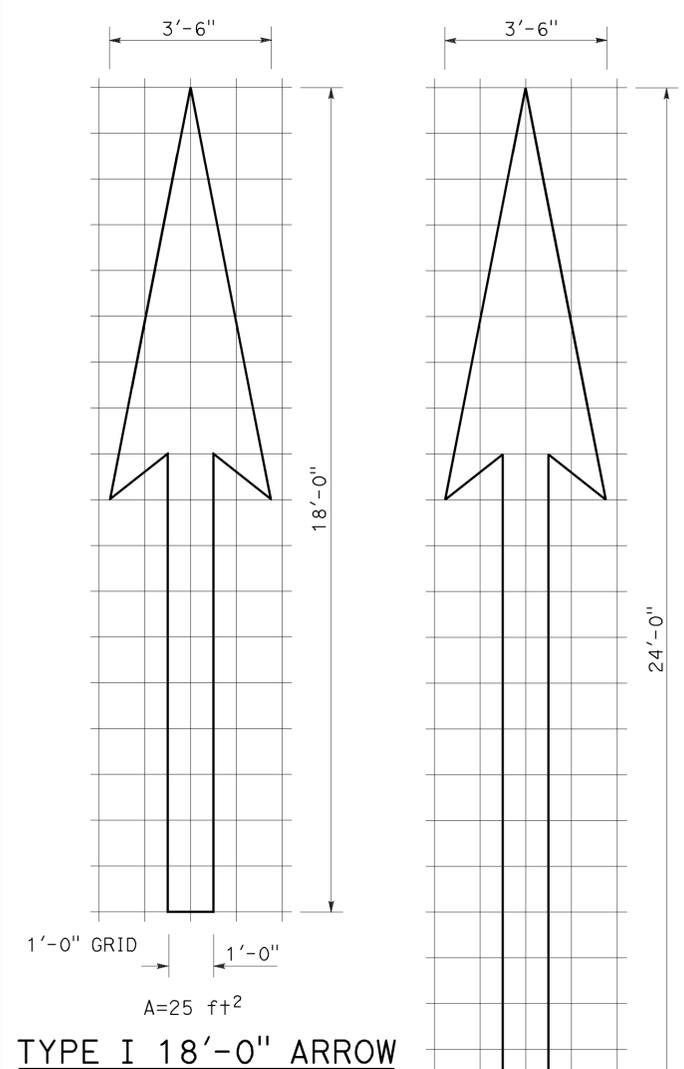
	T continued
TS	TRANSVERSE, TRAFFIC SIGNAL, TUBULAR STEEL
Typ	TYPICAL
	U
UC	UNDERCROSSING
UD	UNDERDRAIN
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
UP	UNDERPASS
	V
V	VALVE, DESIGN SPEED
Var	VARIABLE, VARIES
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
Vert	VERTICAL
Via	VIADUCT
Vol	VOLUME
	W
W	WEST, WIDTH
WB	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
11	Imp	98	32.3/39.6	13	21

Robert 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 02-18-14

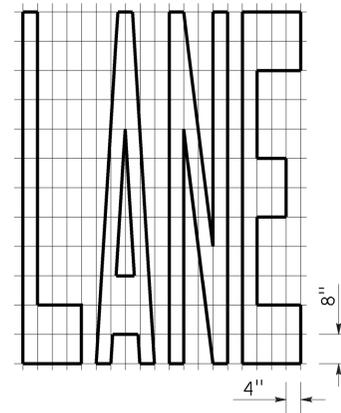


STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**PAVEMENT MARKINGS
ARROWS**
NO SCALE

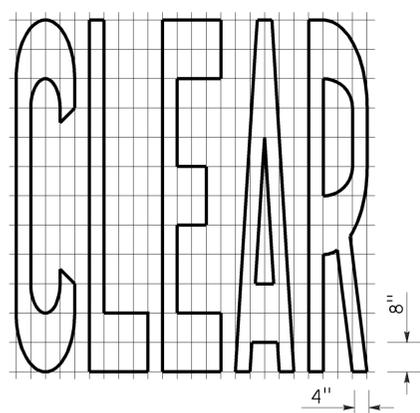
NOTE:
Minor variations in dimensions may be accepted by the Engineer.

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

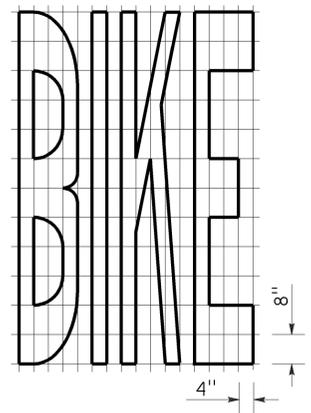
TO ACCOMPANY PLANS DATED 02-18-14



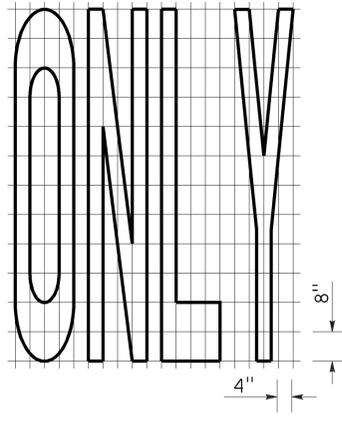
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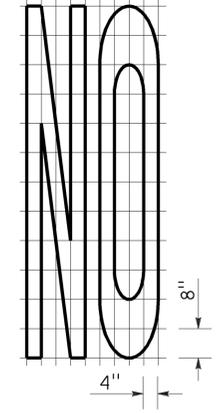
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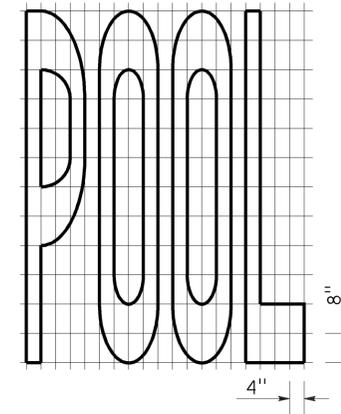
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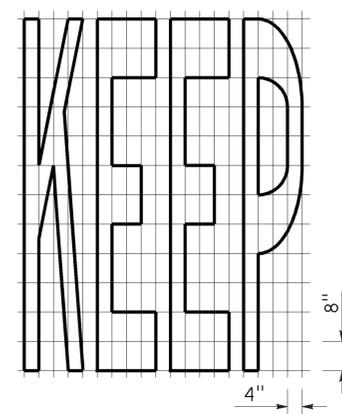
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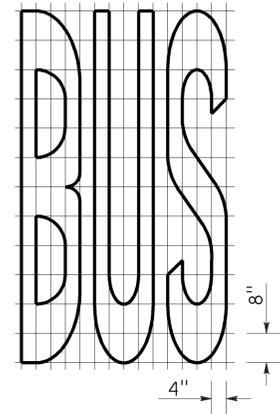
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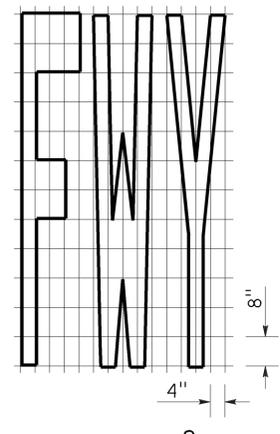
A=23 ft²



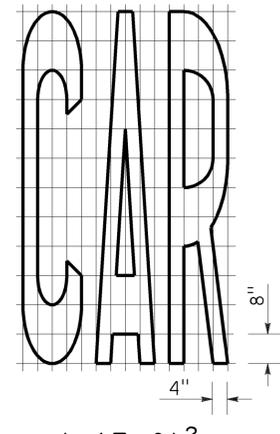
A=24 ft²



A=20 ft²

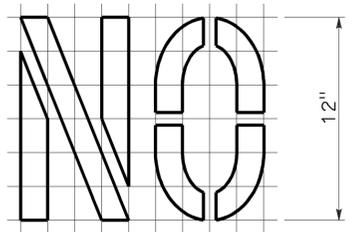


A=16 ft²



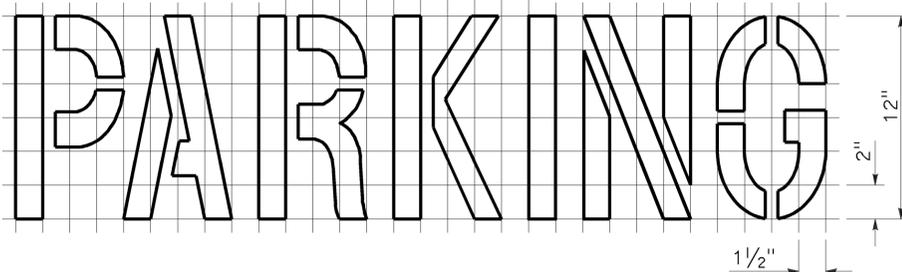
A=17 ft²

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



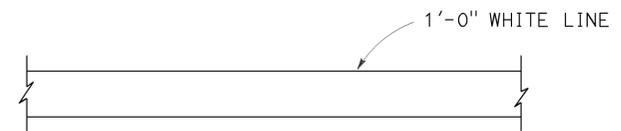
A=2 ft²

See Notes 6 and 7

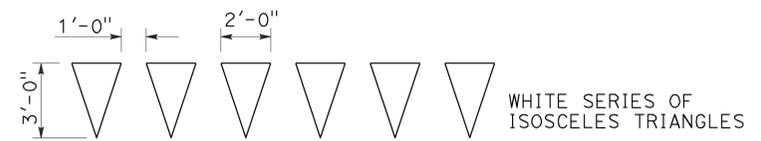


A=2 ft²

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.

REVISED STANDARD PLAN RSP A24E

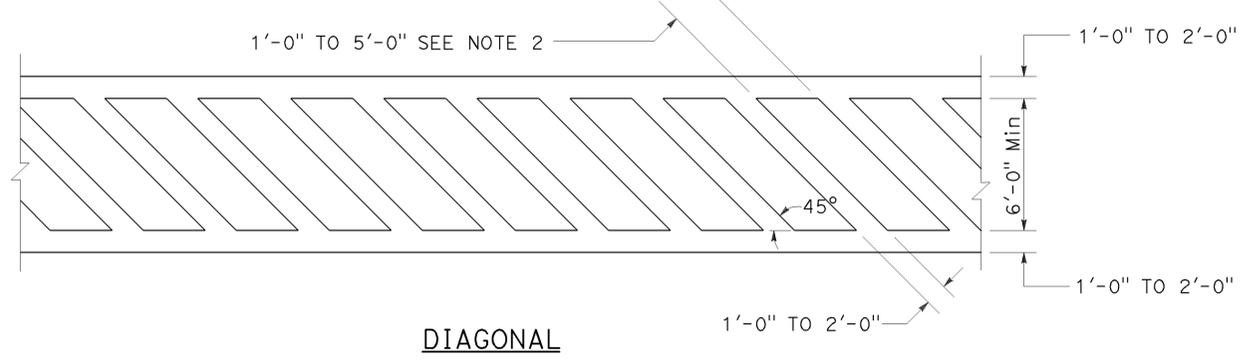
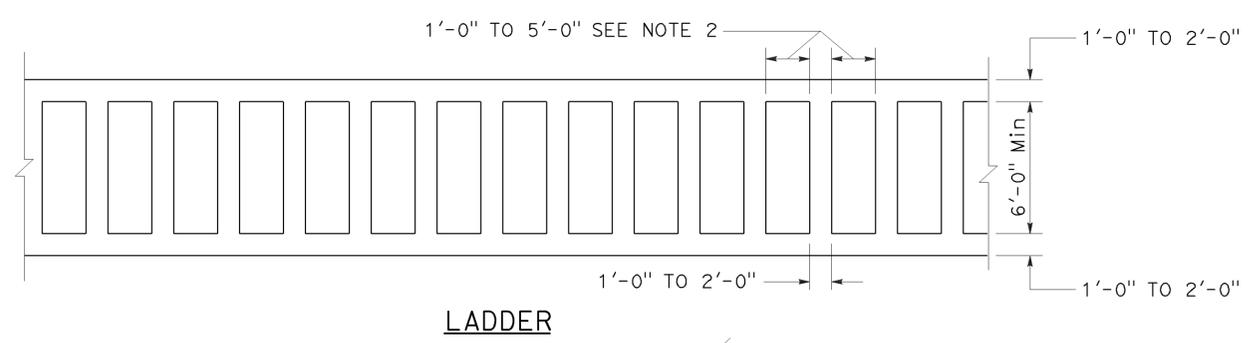
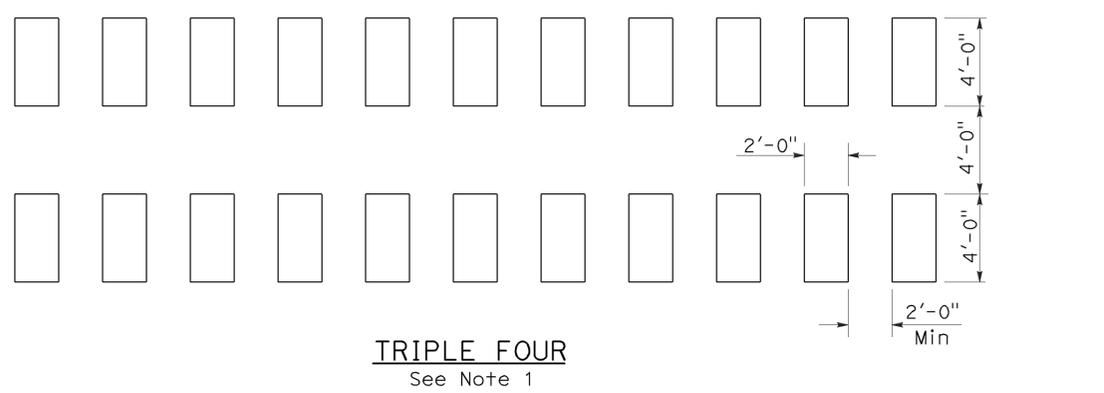
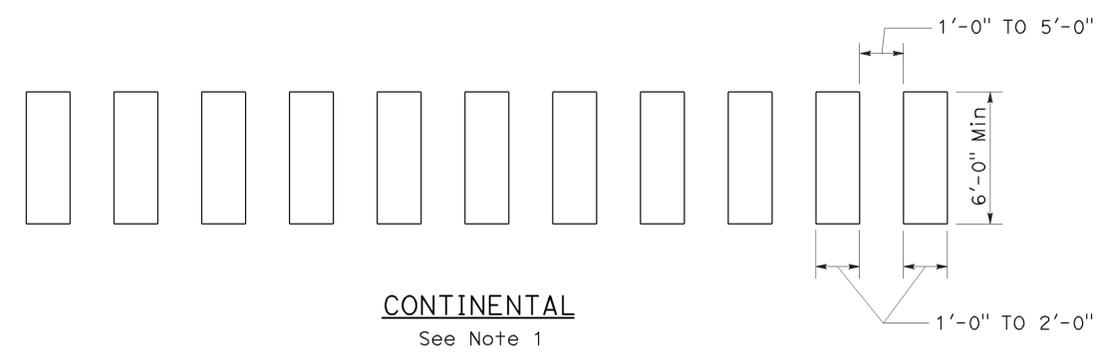
2010 REVISED STANDARD PLAN RSP A24E

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	98	32.3/39.6	15	21

Roberta L. McLaughlin
 REGISTERED CIVIL ENGINEER
 July 20, 2012
 PLANS APPROVAL DATE

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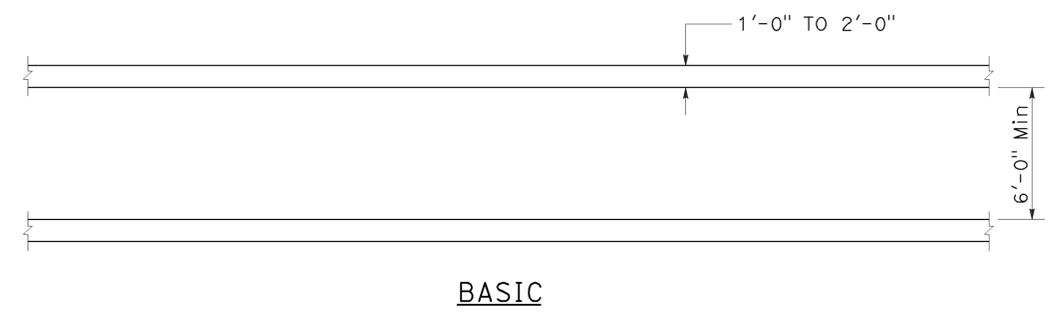
TO ACCOMPANY PLANS DATED 02-18-14



HIGHER VISIBILITY CROSSWALKS

NOTES:

1. Spaces between markings should be placed in wheel tracks of each lane.
2. Spacings not to exceed 2.5 times width of longitudinal line.
3. All crosswalk markings must be white except for those near schools must be yellow.

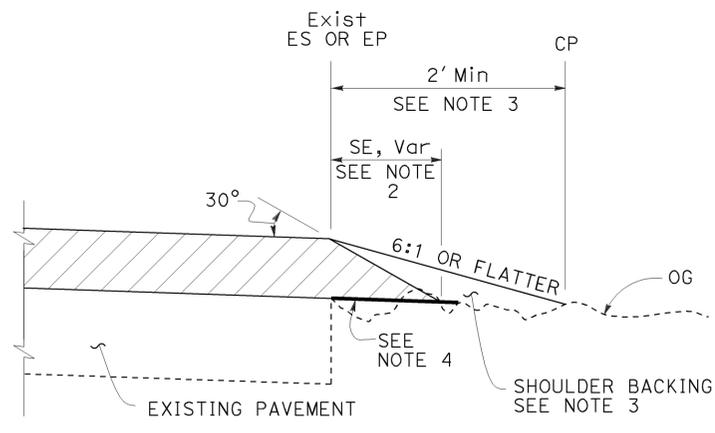


BASIC

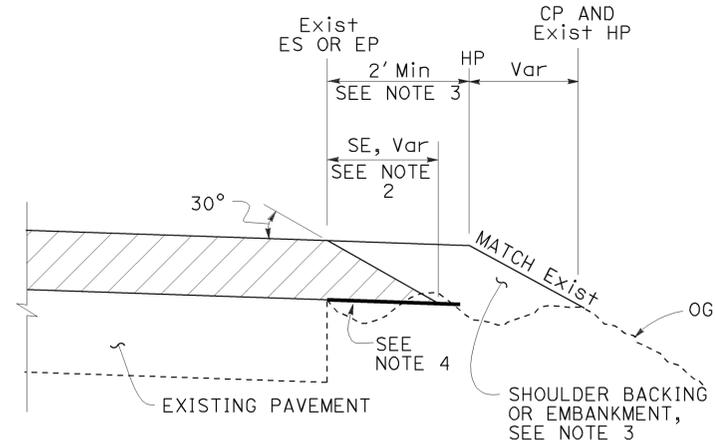
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**PAVEMENT MARKINGS
CROSSWALKS**

NO SCALE
RSP A24F DATED JULY 20, 2012 SUPPLEMENTS THE
STANDARD PLANS BOOK DATED 2010.

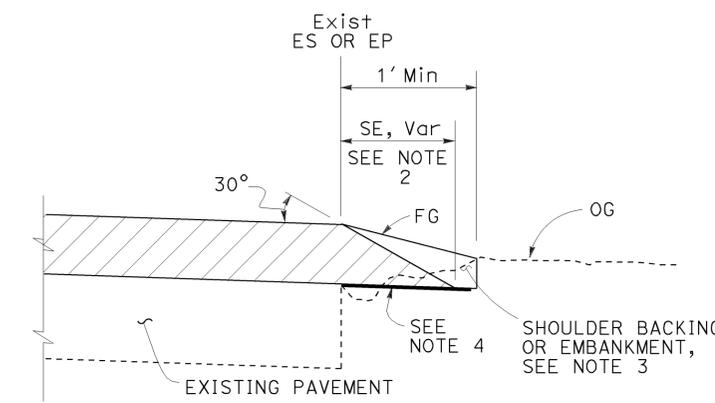
2010 REVISED STANDARD PLAN RSP P75



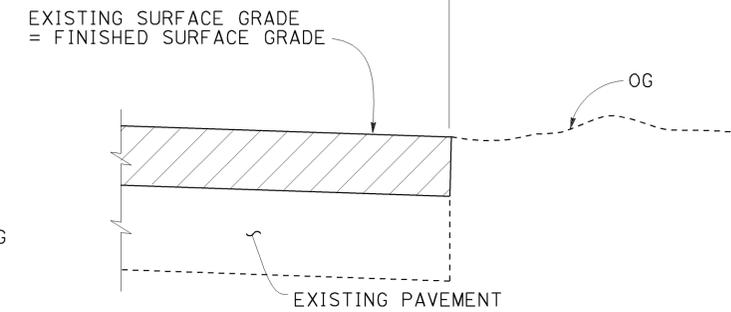
CASE A
Safety Edge



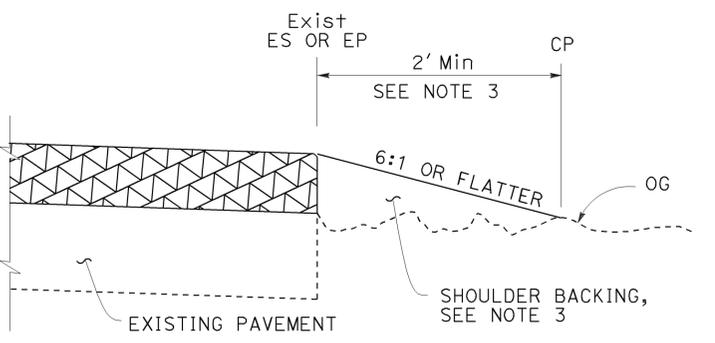
CASE B
Safety Edge



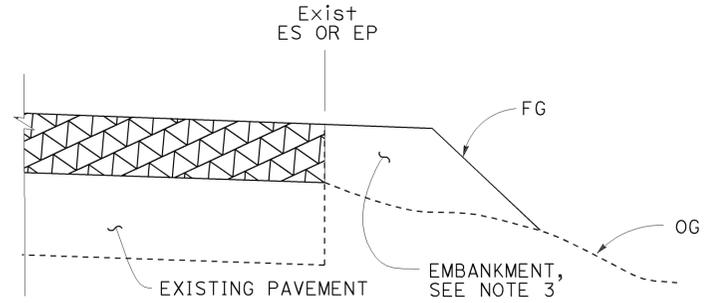
CASE C
Safety Edge



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 MGS, barrier, right turn lane and acceleration lane. See Revised Standard Plan RSP P74.

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

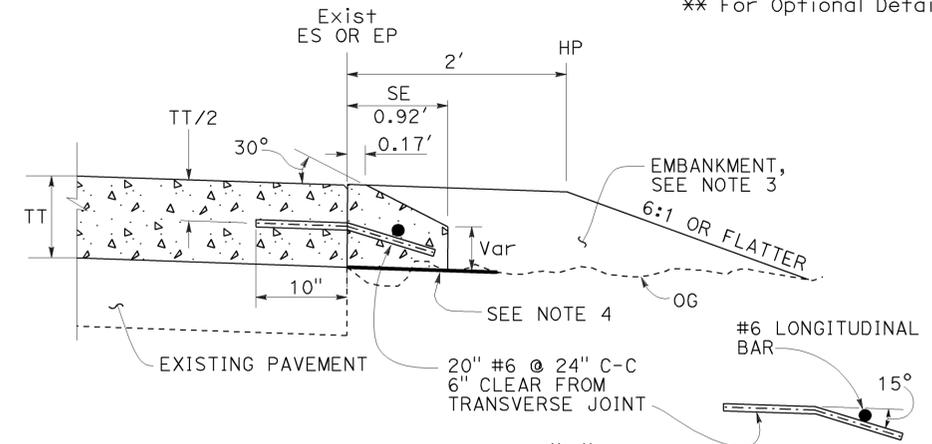
FIELD CONDITION	OVERLAY THICKNESS	
	LESS THAN 0.15'	0.15' OR MORE
Exist SLOPE 6:1 OR FLATTER	CASE E	CASE A
Exist SLOPE 3:1 TO 6:1	CASE E	CASE B
Exist SLOPE STEEPER THAN 3:1	CASE F	CASE F
CUT SECTION (REPLACE, COLD PLANE, MILL PAVEMENT)	CASE D	CASE C

TO ACCOMPANY PLANS DATED 02-18-14

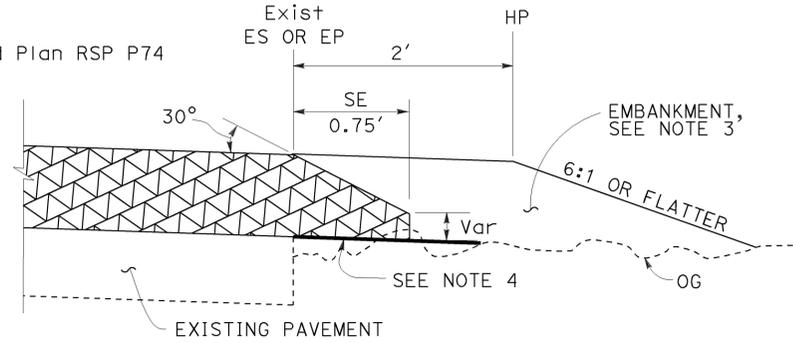
ADDITIONAL HMA OR CONCRETE QUANTITIES FOR SE/SIDE/MILE

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"



OPTIONAL DETAIL "A"
For concrete overlay
See Note 5



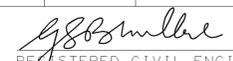
DETAIL "A"
For HMA overlay thickness more than 0.43' or concrete overlay

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT EDGE TREATMENTS - OVERLAYS

NO SCALE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	98	32.3/39.6	17	21


 REGISTERED CIVIL ENGINEER
 July 19, 2013
 PLANS APPROVAL DATE



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TO ACCOMPANY PLANS DATED 02-18-14

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
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**

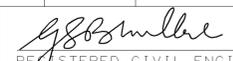
NO SCALE

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

REVISED STANDARD PLAN RSP T9

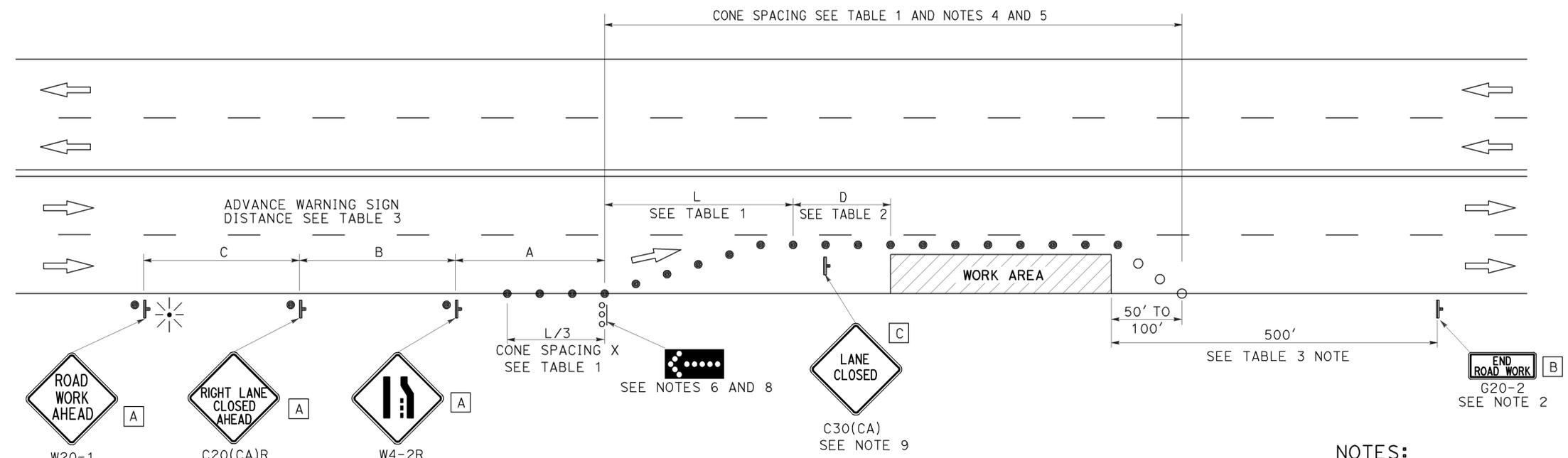
2010 REVISED STANDARD PLAN RSP T9

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	98	32.3/39.6	18	21


 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 02-18-14



TYPICAL LANE CLOSURE

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.

NOTES:

- Each advance warning sign 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 closure 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 C20(CA) 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.
- Flashing arrow sign shall be either Type I or Type II.
- For approach speeds over 50 mph, use the "Traffic Control System for Lane Closure On Freeways And Expressways" plan for lane closure details and requirements.
- A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at the top of crest vertical curve or on a horizontal curve.
- Place a C30(CA) sign every 2000' throughout length of lane closure.
- Median lane closures shall conform to the details as shown except that C20(CA)L and W4-2L signs shall be used.
- At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closure unless, otherwise directed by the Engineer.

LEGEND

- TRAFFIC CONE
- TRAFFIC CONE (OPTIONAL TAPER)
- ⌋ TEMPORARY TRAFFIC CONTROL SIGN
-  FLASHING ARROW SIGN (FAS)
-  FAS SUPPORT OR TRAILER
-  PORTABLE FLASHING BEACON

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 36" x 18"
- C 30" x 30"

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
FOR LANE CLOSURE ON
MULTILANE CONVENTIONAL
HIGHWAYS**

NO SCALE

RSP T11 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T11 DATED MAY 20, 2011 - PAGE 239 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T11

2010 REVISED STANDARD PLAN RSP T11

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	98	32.3/39.6	19	21

REGISTERED CIVIL ENGINEER
 April 19, 2013
 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.

LEGEND

- TRAFFIC CONE
- ⌋ TEMPORARY TRAFFIC CONTROL SIGN
- ⬢ FLASHING ARROW SIGN (FAS)
- FAS SUPPORT OR TRAILER
- ⊛ PORTABLE FLASHING BEACON

SIGN PANEL SIZE (Min)

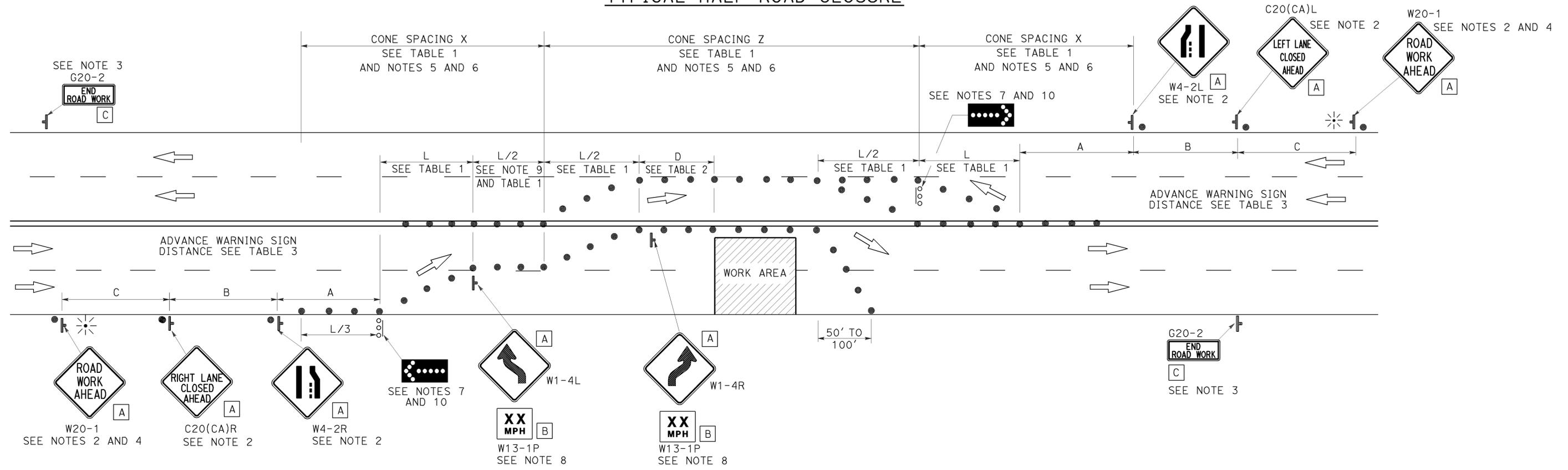
- A 48" x 48"
- B 24" x 24"
- C 36" x 18"

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.

TO ACCOMPANY PLANS DATED 02-18-14

TYPICAL HALF ROAD CLOSURE



NOTES:

1. At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closure unless, otherwise directed by the Engineer.
2. 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.
3. A G20-2 "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious, or ends within a larger project's limits.
4. If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a C20(CA) sign for the first advance warning sign.
5. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
6. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
7. Flashing arrow signs shall be either Type I or Type II.
8. Advisory speed will be determined by the Engineer. The W13-1P Plaque will not be required when advisory speed is more than the posted or maximum speed limit.
9. Unless otherwise specified in the special provisions, the tangent (L/2) shall be used.
10. A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at the top of crest vertical curve or on a horizontal curve.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
 FOR HALF ROAD CLOSURE ON
 MULTILANE CONVENTIONAL
 HIGHWAYS AND EXPRESSWAYS**

NO SCALE

RSP T12 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T12
 DATED MAY 20, 2011 - PAGE 240 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T12

2010 REVISED STANDARD PLAN RSP T12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	98	32.3/39.6	20	21

Registered Civil Engineer
 Gurinderpal Bhullar
 No. C48815
 Exp. 9-30-14
 CIVIL
 STATE OF CALIFORNIA

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.

NOTES:

See Revised Standard Plan RSP T9 for tables.

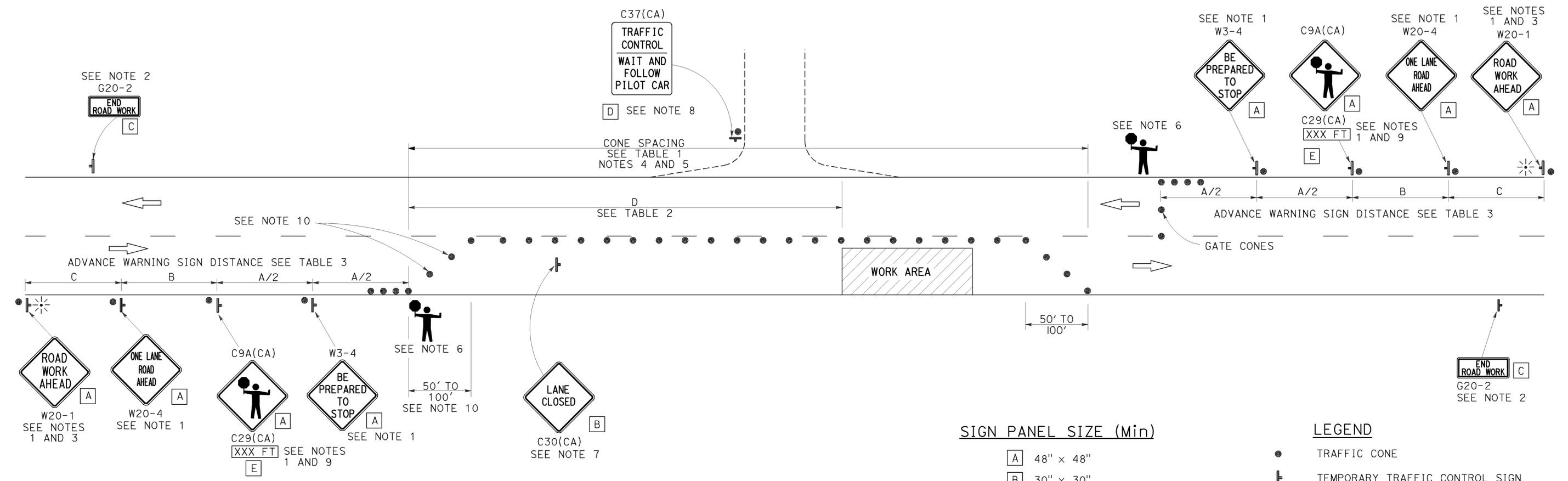
Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

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 02-18-14



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.

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**

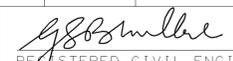
NO SCALE

RSP T13 DATED APRIL 19, 2013 SUPERSEDES 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

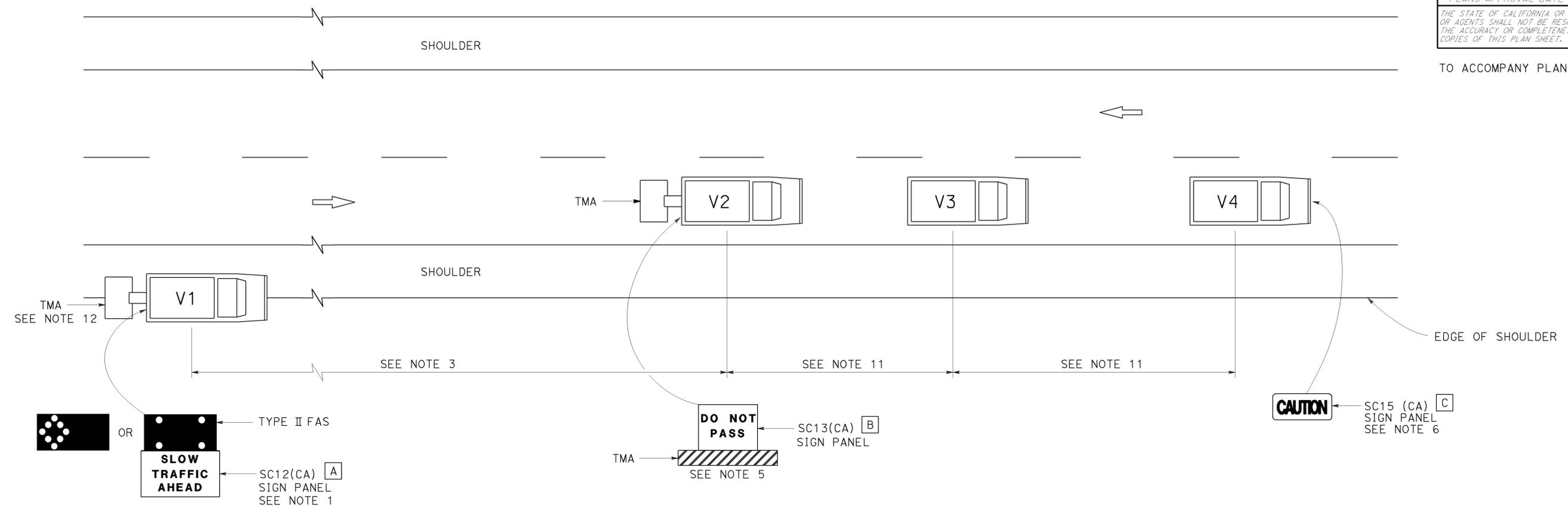
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	98	32.3/39.6	21	21


 REGISTERED CIVIL ENGINEER
 April 19, 2013
 PLANS APPROVAL DATE



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TO ACCOMPANY PLANS DATED 02-18-14



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