Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	246	31.4/34.6	1	25

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	TYPICAL CROSS SECTIONS
3-9	CONSTRUCTION DETAILS
10	CONSTRUCTION AREA SIGNS
11	PAVEMENT DELINEATION QUANTITIES
12-14	SUMMARY OF QUANTITIES
15-18	ELECTRICAL PLANS
19-20	TRAFFIC CONTROL SYSTEM
21-25	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

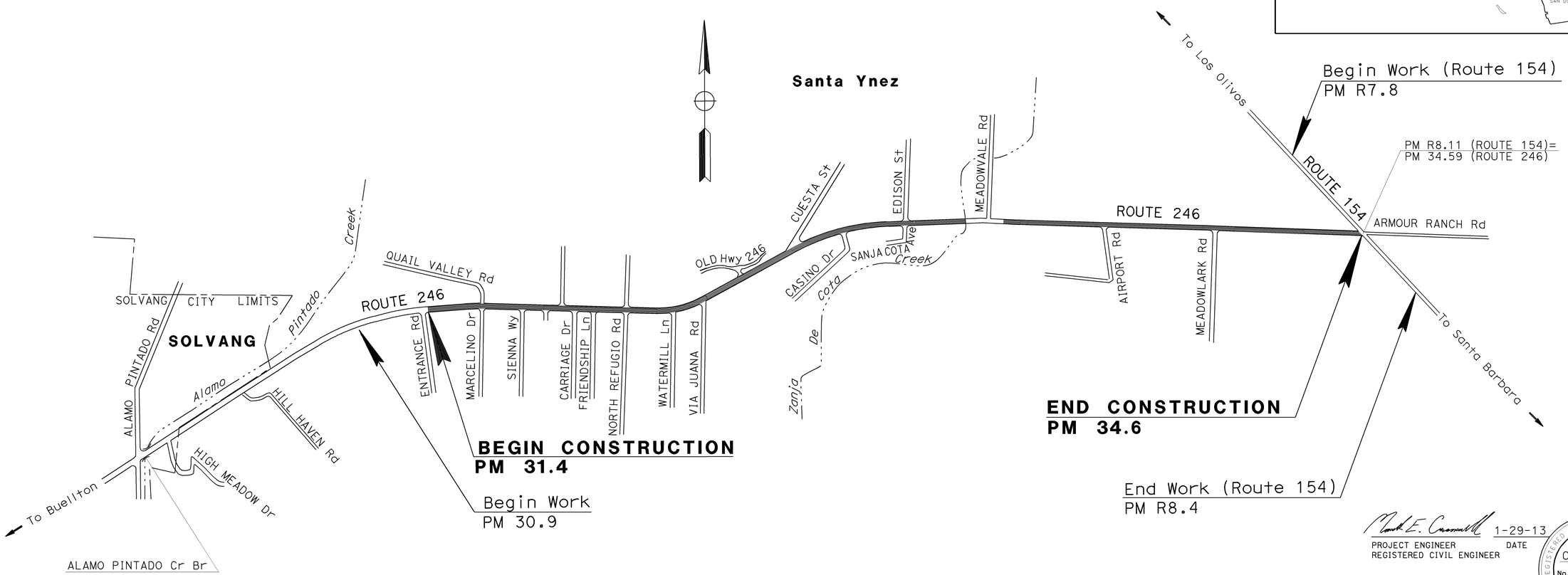
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON

STATE HIGHWAY

IN SANTA BARBARA COUNTY
NEAR SOLVANG
FROM ENTRANCE ROAD TO ROUTE 154

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010



NO SCALE

PROJECT MANAGER KELLY McCLAIN

DESIGN ENGINEER KELLY McCLAIN

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

PROJECT ENGINEER REGISTERED CIVIL ENGINEER — DATE 1-29-13

REGISTERED PROFESSIONAL ENGINEER MARK CRESSWELL No. 63117 Exp. 6/30/14 CIVIL STATE OF CALIFORNIA

FEBRUARY 11,2013
PLANS APPROVAL DATE

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

CONTRACT No.	05-1A4004
PROJECT ID	0500020324

LAST REVISION 01-29-13 DATE PLOTTED => 08-FEB-2013 TIME PLOTTED => 13:29

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	246	31.4/34.6	2	25

REGISTERED CIVIL ENGINEER 1-29-13 DATE

2-11-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MARK CRESSWELL No. 63117 Exp 6/30/14 CIVIL STATE OF CALIFORNIA

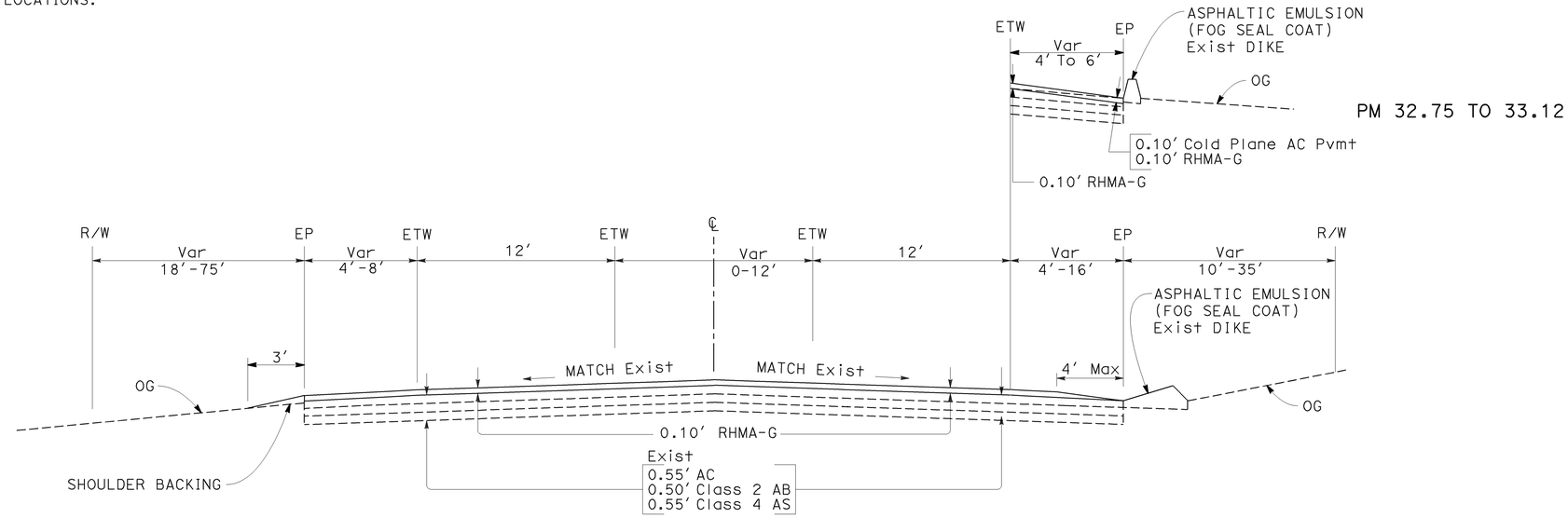
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.
3. SEE SUMMARY OF QUANTITIES SHEETS FOR HMA DIKE TYPES AND LOCATIONS.

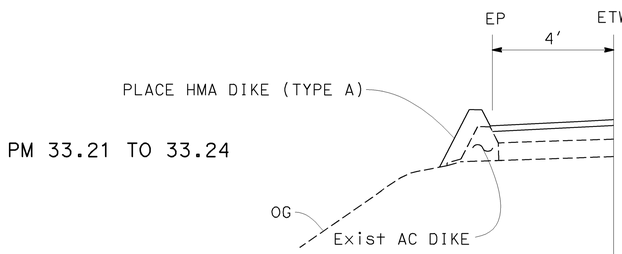
ABBREVIATION:

RHMA-G = RUBBERIZED HOT MIX ASPHALT (GAP GRADED)

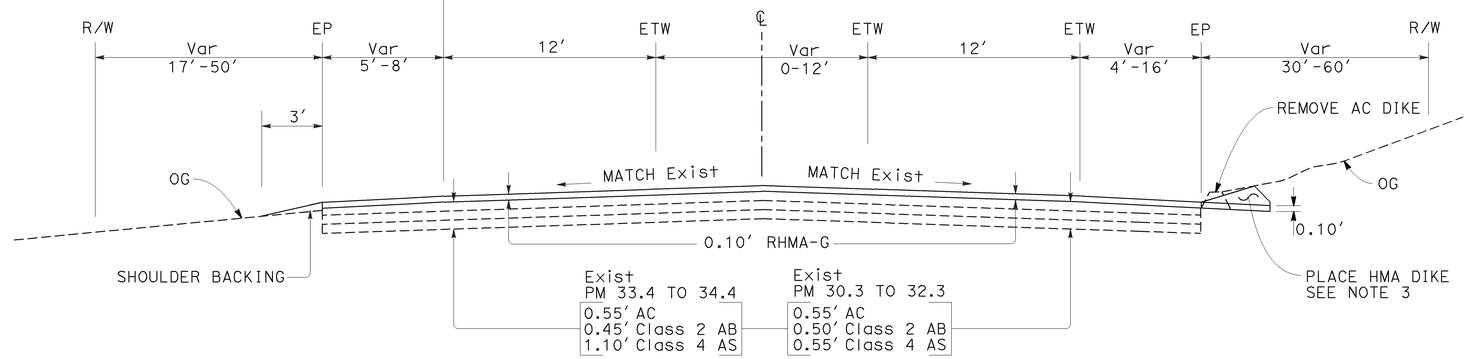


PM 32.75 TO 33.12

PM 32.55 TO 33.12



PM 33.21 TO 33.24



PM 31.40 TO 32.55
PM 33.12 TO 33.24
PM 33.54 TO 34.60

ROUTE 246

TYPICAL CROSS SECTIONS

NO SCALE

X-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® **MAINTENANCE DESIGN**

FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN
CALCULATED-DESIGNED BY: MARK CRESSWELL
CHECKED BY: KELLY J. McCLAIN
REVISED BY
DATE REVISED

LAST REVISION 01-29-13
DATE PLOTTED => 08-FEB-2013
TIME PLOTTED => 15:19

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	246	31.4/34.6	3	25

REGISTERED CIVIL ENGINEER 1-29-13 DATE

2-11-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MARK CRESSWELL No. 63117 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. HOT MIX ASPHALT SHALL NOT BE APPLIED ON PCC STRUCTURES OR SURFACES.
2. SEE SUMMARY OF QUANTITIES SHEET FOR CONFORM OFFSET DISTANCE.

LEGEND:

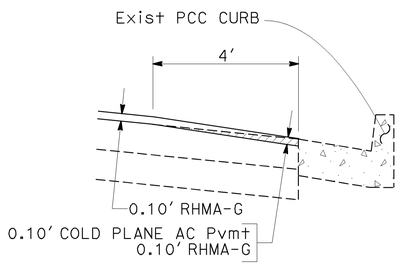
COLD PLANE AC PAVEMENT

(S) SEWER MANHOLE ADJUST TO GRADE BY OTHERS

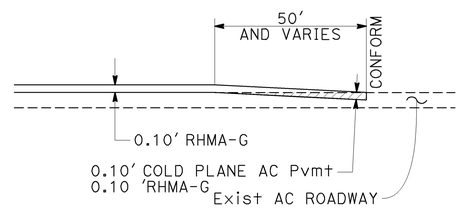
(V) "GTE"/VERIZON MANHOLE ADJUST TO GRADE BY OTHERS

ABBREVIATIONS:

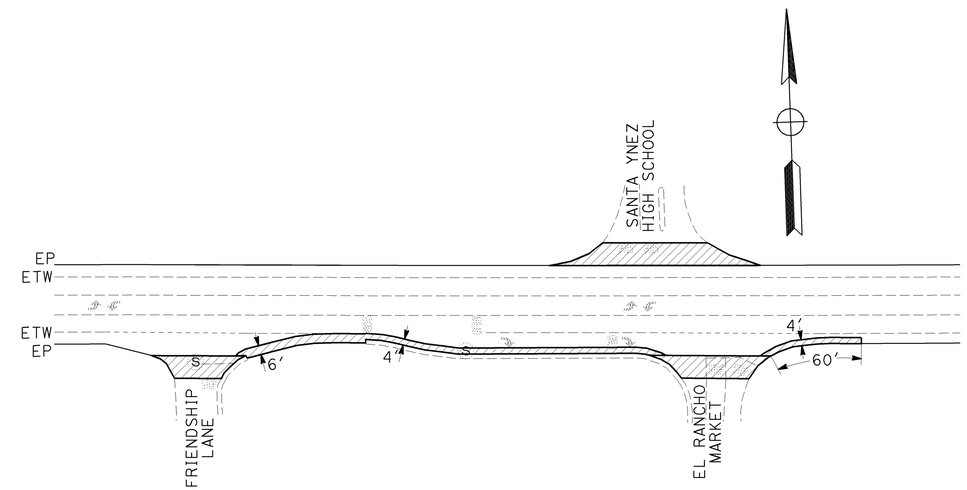
RHMA-G = RUBBERIZED HOT MIX ASPHALT (GAP GRADED)
HMA-A = HOT MIX ASPHALT (TYPE A)



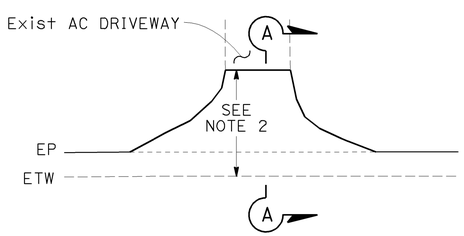
TYPICAL PCC CURB AND GUTTER CONFORM



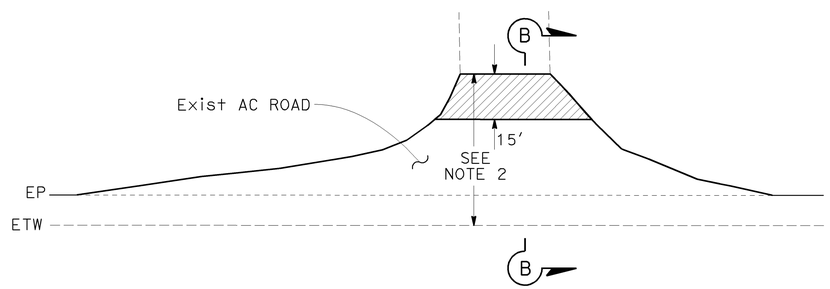
TYPICAL LONGITUDINAL CONFORM



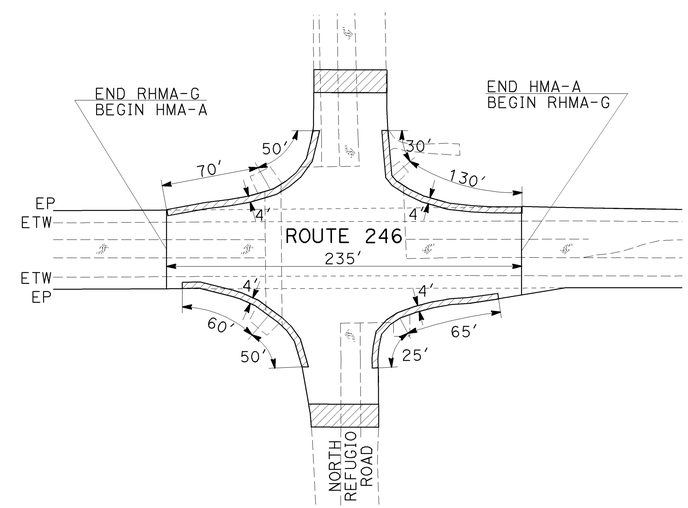
FRIENDSHIP LANE, EL RANCHO MARKET, AND SANTA YNEZ HIGH SCHOOL CONFORM DETAILS



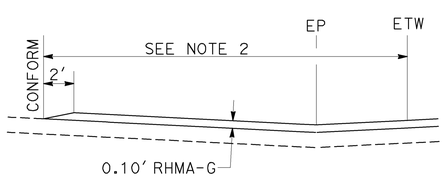
TYPICAL DRIVEWAY CONFORM



TYPICAL ROAD CONFORM



NORTH REFUGIO ROAD PAVING AND CONFORM DETAILS



SECTION A-A

SECTION B-B

CONSTRUCTION DETAILS

NO SCALE

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN
CALCULATED-DESIGNED BY: MARK CRESSWELL
CHECKED BY: KELLY J. McCLAIN
REVISED BY
DATE REVISED

LAST REVISION 01-29-13
DATE PLOTTED => 08-FEB-2013
TIME PLOTTED => 13:31

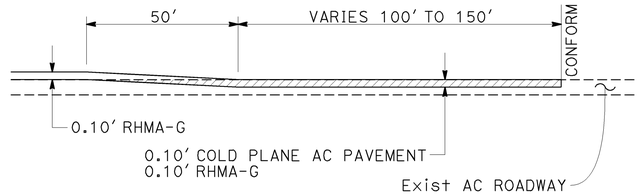
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	246	31.4/34.6	4	25

REGISTERED CIVIL ENGINEER 1-29-13 DATE

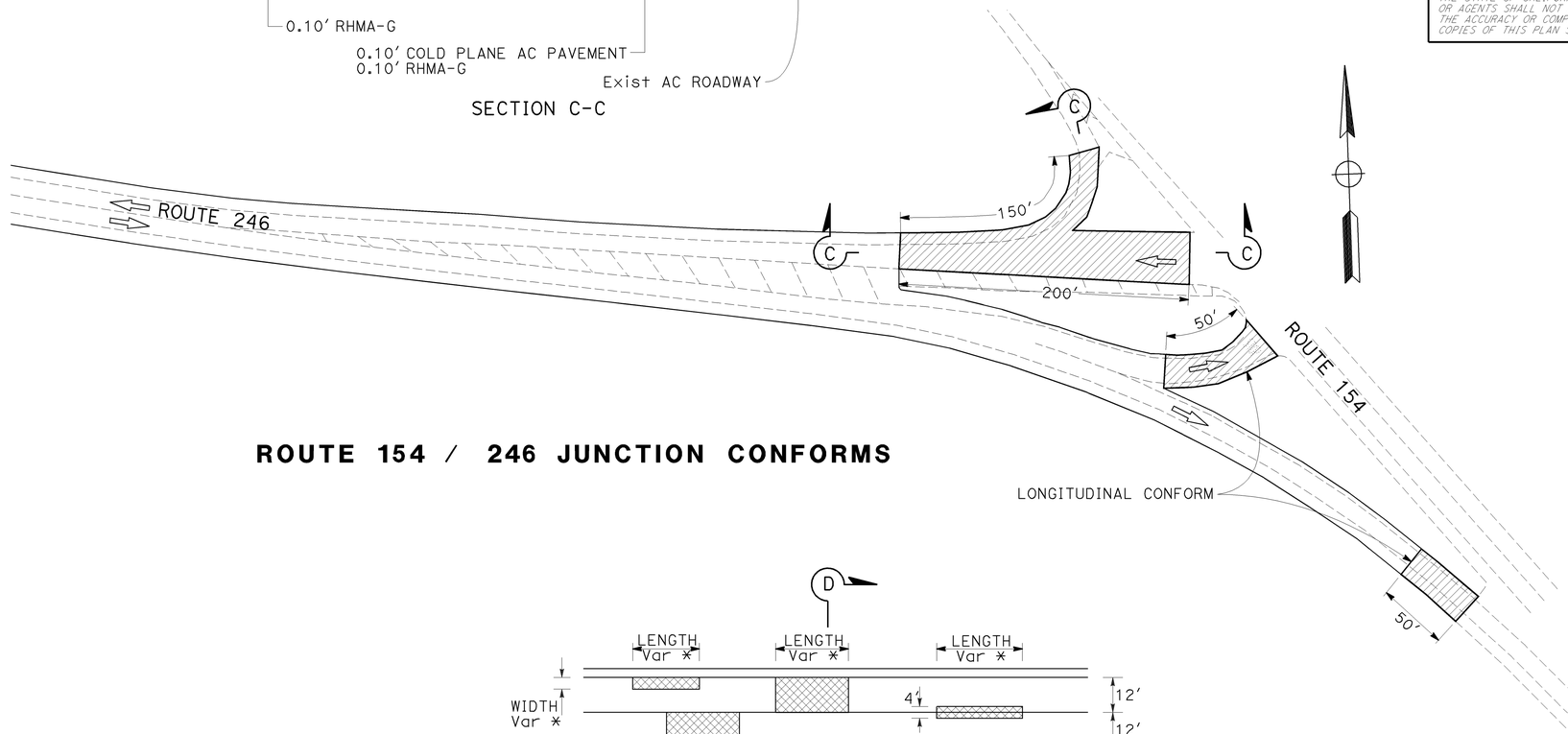
2-11-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MARK CRESSWELL No. 63117 Exp 6/30/14 CIVIL STATE OF CALIFORNIA

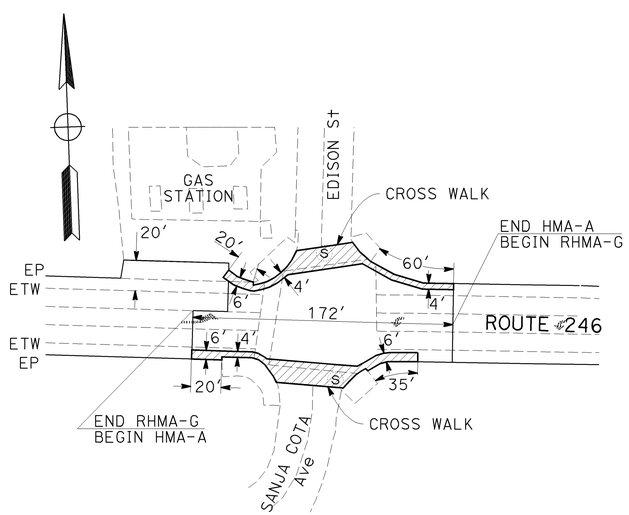
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



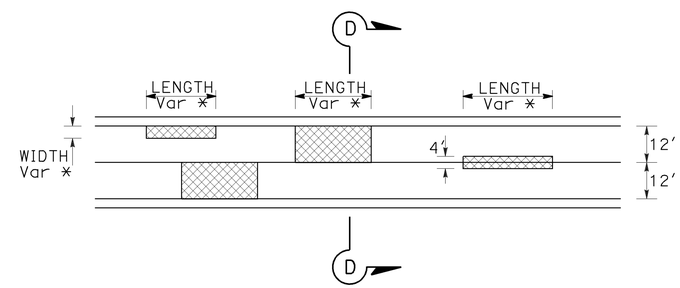
SECTION C-C



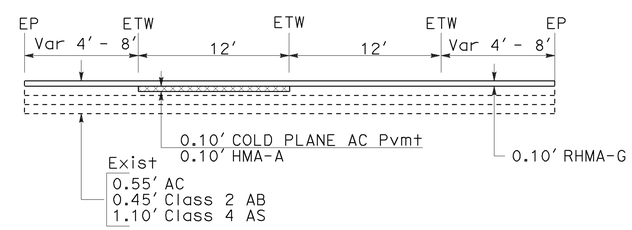
ROUTE 154 / 246 JUNCTION CONFORMS



EDISON STREET AND SANJA COTA Ave PAVING & CONFORM DETAILS



TYPICAL LOCATION PLAN



SECTION D-D

* = SEE QUANTITES FOR LENGTH AND WIDTH

REPAIR FAILED AREAS

CONSTRUCTION DETAILS

NO SCALE

C-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN
CALCULATED-DESIGNED BY: MARK CRESSWELL
CHECKED BY: KELLY J. McCLAIN
REVISED BY
DATE REVISED

LAST REVISION 01-29-13
DATE PLOTTED => 08-FEB-2013
TIME PLOTTED => 13:33

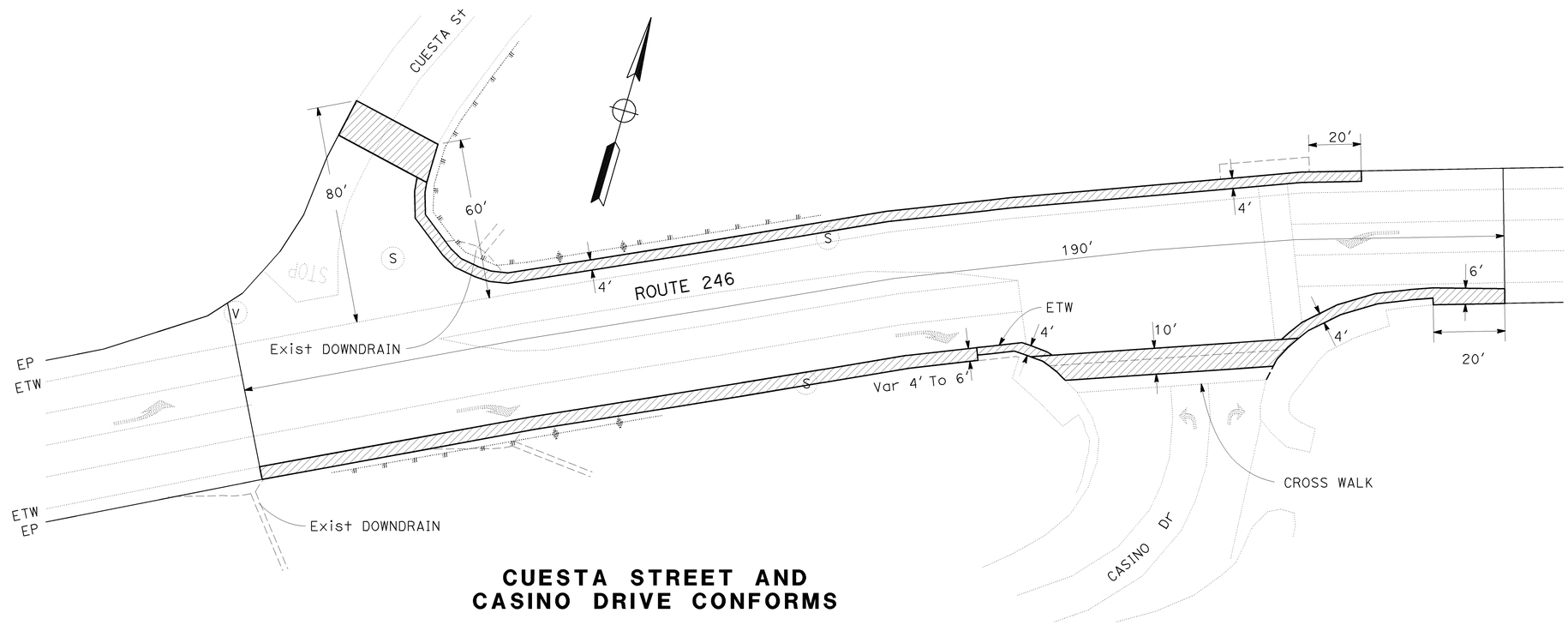
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	246	31.4/34.6	5	25

REGISTERED CIVIL ENGINEER 1-29-13 DATE

2-11-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MARK CRESSWELL No. 63117 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.



CUESTA STREET AND CASINO DRIVE CONFORMS

CONSTRUCTION DETAILS

NO SCALE

C-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN
CALCULATED-DESIGNED BY: MARK CRESSWELL
CHECKED BY: KELLY J. McCLAIN
REVISED BY
DATE REVISED

LAST REVISION 01-29-13
DATE PLOTTED => 08-FEB-2013
TIME PLOTTED => 13:34

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	246	31.4/34.6	6	25

REGISTERED CIVIL ENGINEER 1-29-13 DATE

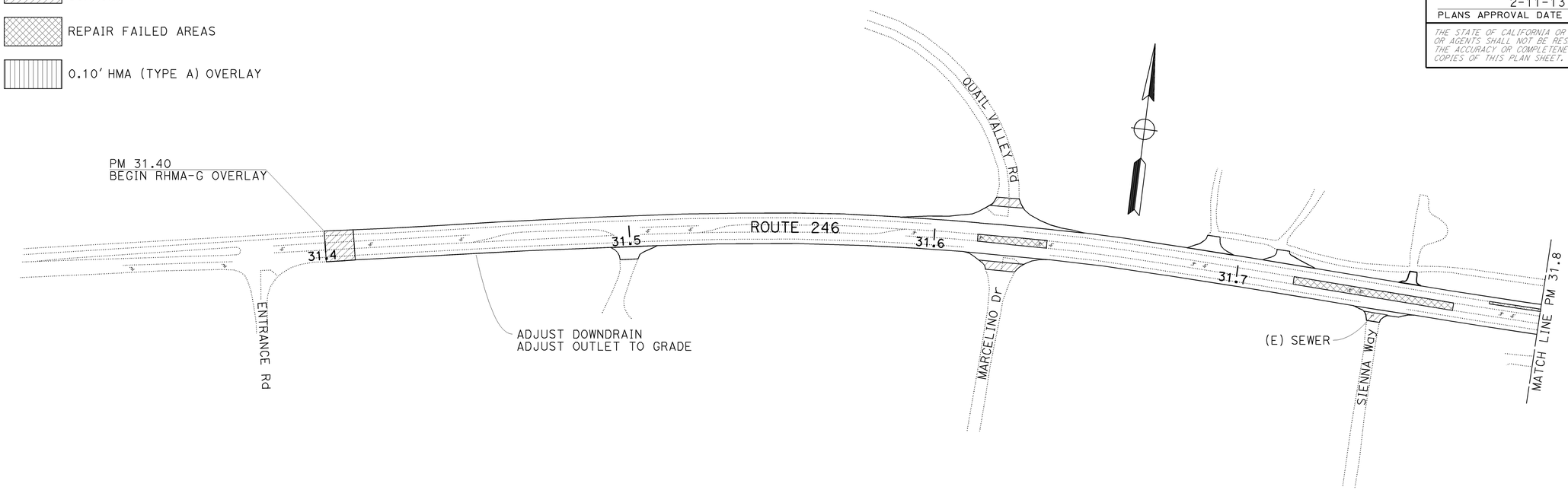
2-11-13
PLANS APPROVAL DATE

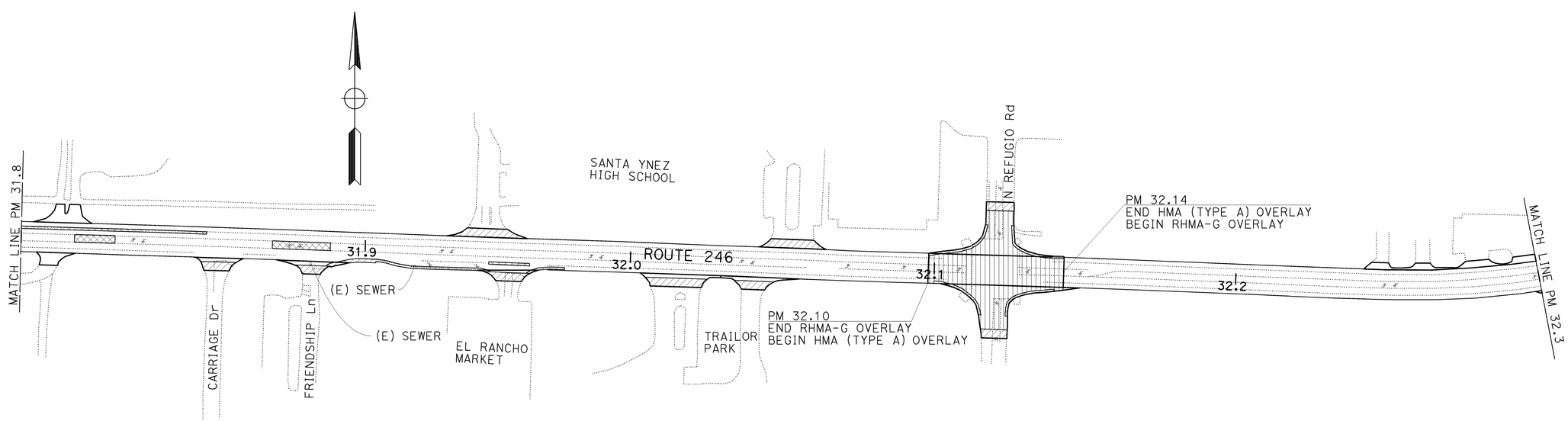
REGISTERED PROFESSIONAL ENGINEER MARK CRESSWELL No. 63117 Exp 6/30/14 CIVIL STATE OF CALIFORNIA

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.

LEGEND:

- COLD PLANE AC PAVEMENT CONFORM
- REPAIR FAILED AREAS
- 0.10' HMA (TYPE A) OVERLAY





CONSTRUCTION DETAILS

SCALE: 1"=100'

C-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN
CALCULATED-DESIGNED BY: MARK CRESSWELL
CHECKED BY: KELLY J. McCLAIN
REVISED BY
DATE REVISED

LAST REVISION 01-29-13
DATE PLOTTED => 08-FEB-2013
TIME PLOTTED => 13:36

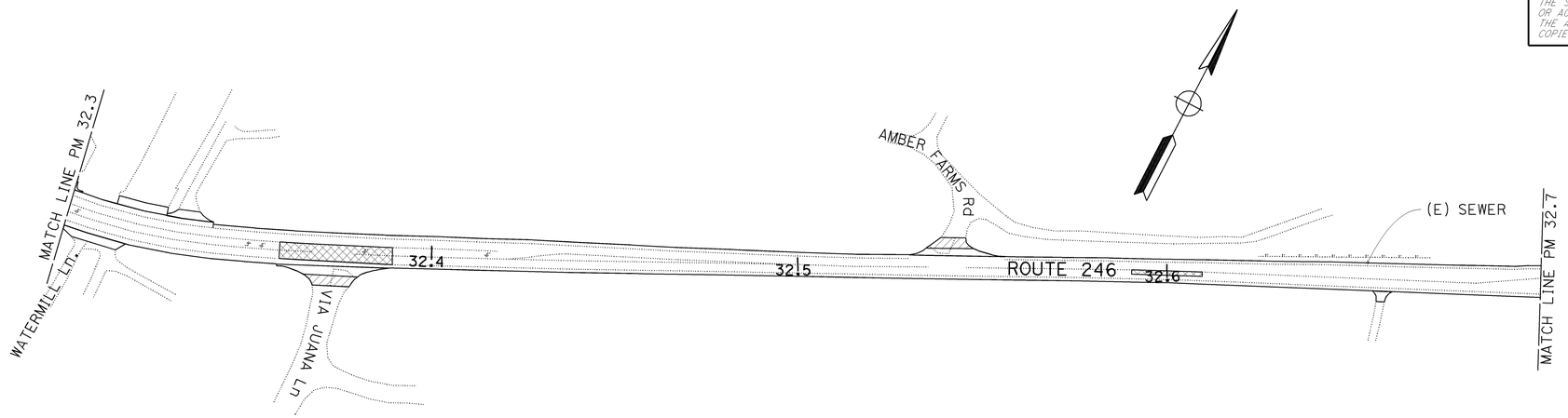
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	246	31.4/34.6	7	25

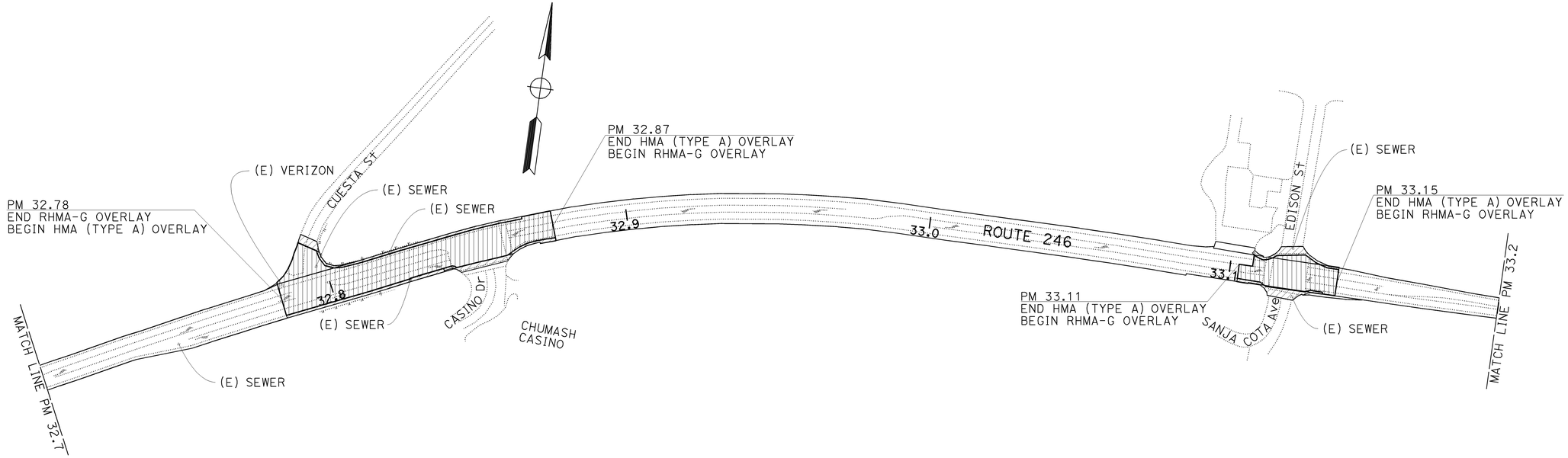
REGISTERED CIVIL ENGINEER 1-29-13 DATE

2-11-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MARK CRESSWELL No. 63117 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.





CONSTRUCTION DETAILS

SCALE: 1"=100'

C-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® **MAINTENANCE DESIGN**

FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN
CALCULATED-DESIGNED BY: MARK CRESSWELL
CHECKED BY: KELLY J. McCLAIN
REVISED BY
DATE REVISED

LAST REVISION 01-29-13
DATE PLOTTED => 08-FEB-2013
TIME PLOTTED => 13:37

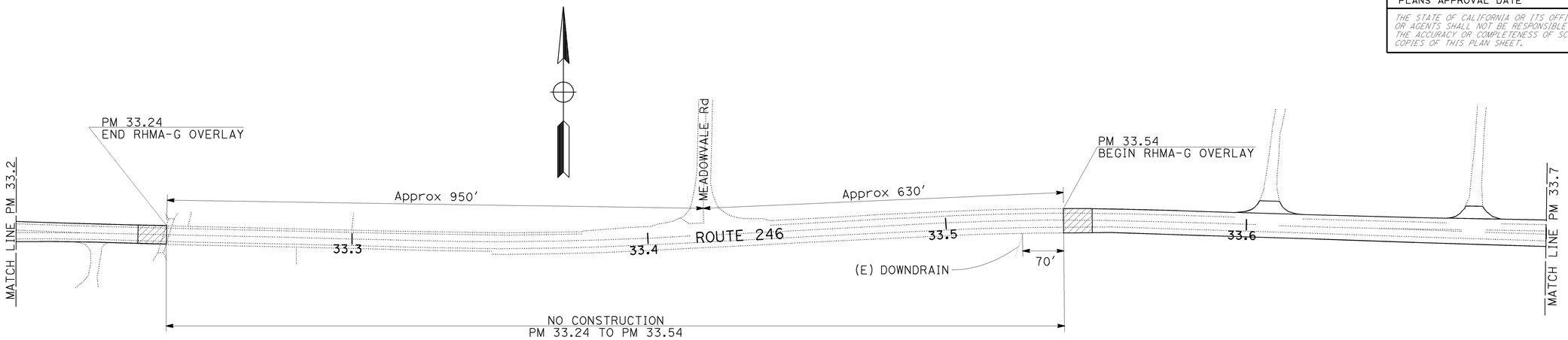
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	246	31.4/34.6	8	25

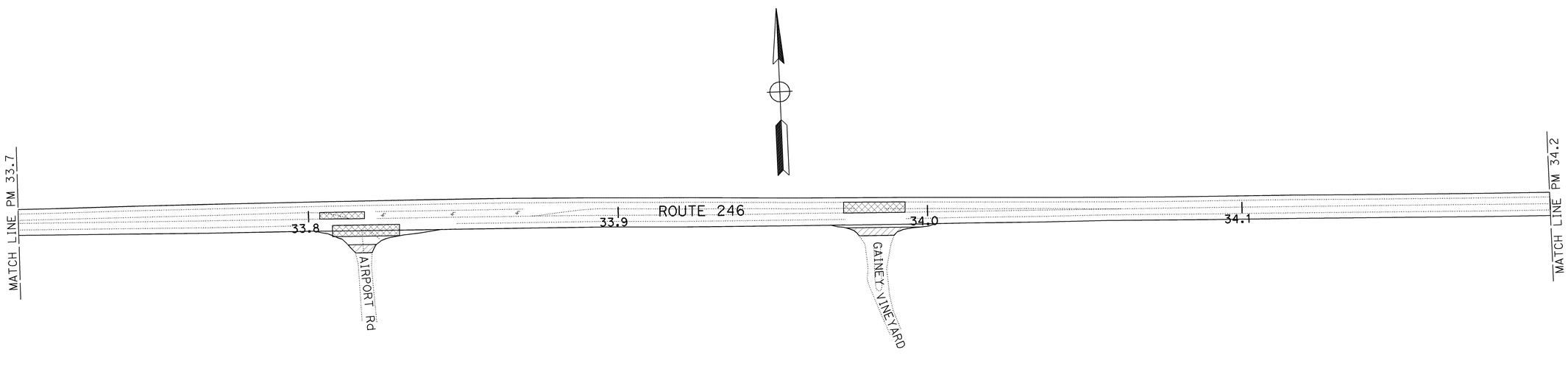
REGISTERED CIVIL ENGINEER 1-29-13 DATE

2-11-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MARK CRESSWELL No. 63117 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.





CONSTRUCTION DETAILS

SCALE: 1"=100'

C-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN
CALCULATED-DESIGNED BY: MARK CRESSWELL
CHECKED BY: KELLY J. McCLAIN
REVISED BY
DATE REVISED

LAST REVISION 01-29-13
DATE PLOTTED => 08-FEB-2013
TIME PLOTTED => 13:39

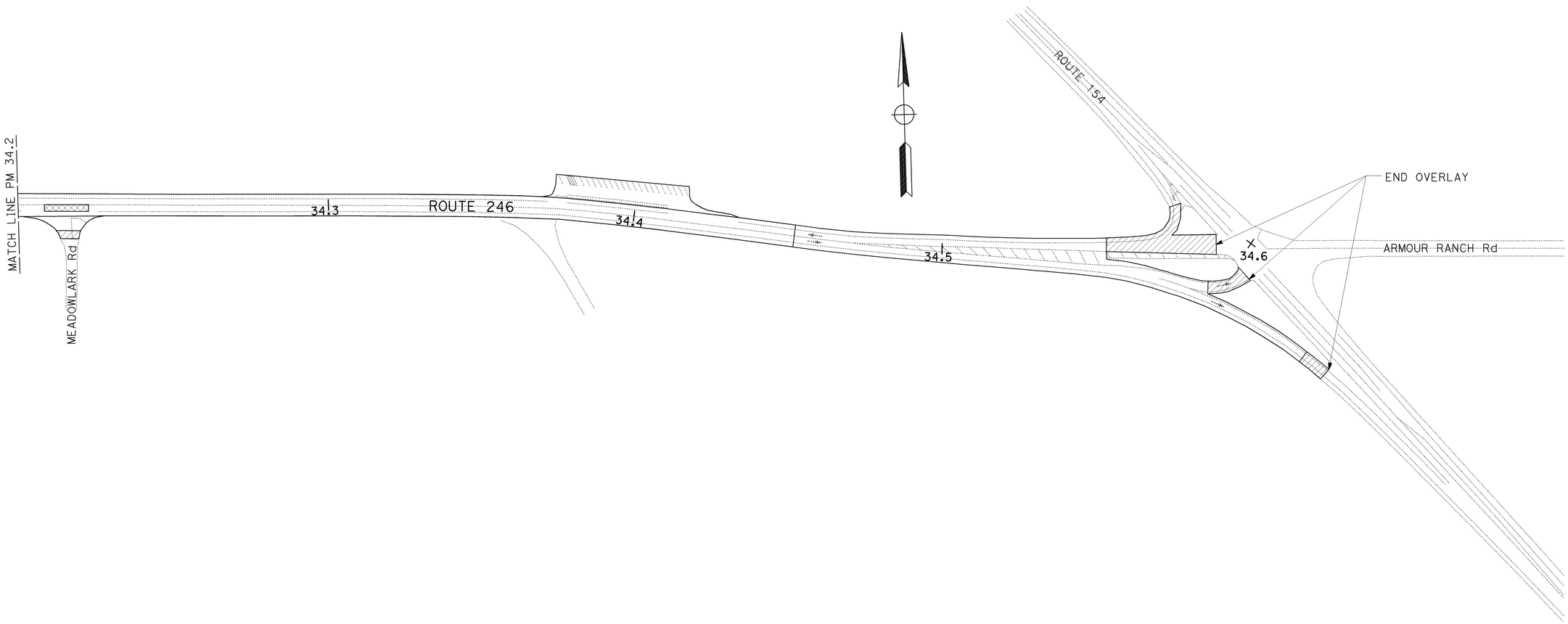
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	246	31.4/34.6	9	25

REGISTERED CIVIL ENGINEER 1-29-13 DATE

2-11-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MARK CRESSWELL No. 63117 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.



CONSTRUCTION DETAILS

SCALE: 1"=100'

C-7

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN
CALCULATED-DESIGNED BY: MARK CRESSWELL
CHECKED BY: KELLY J. McCLAIN
REVISED BY
DATE REVISED

LAST REVISION 01-29-13 | DATE PLOTTED => 08-FEB-2013 | TIME PLOTTED => 13:40

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	246	31.4/34.6	10	25

REGISTERED CIVIL ENGINEER 1-29-13 DATE

2-11-13
PLANS APPROVAL DATE

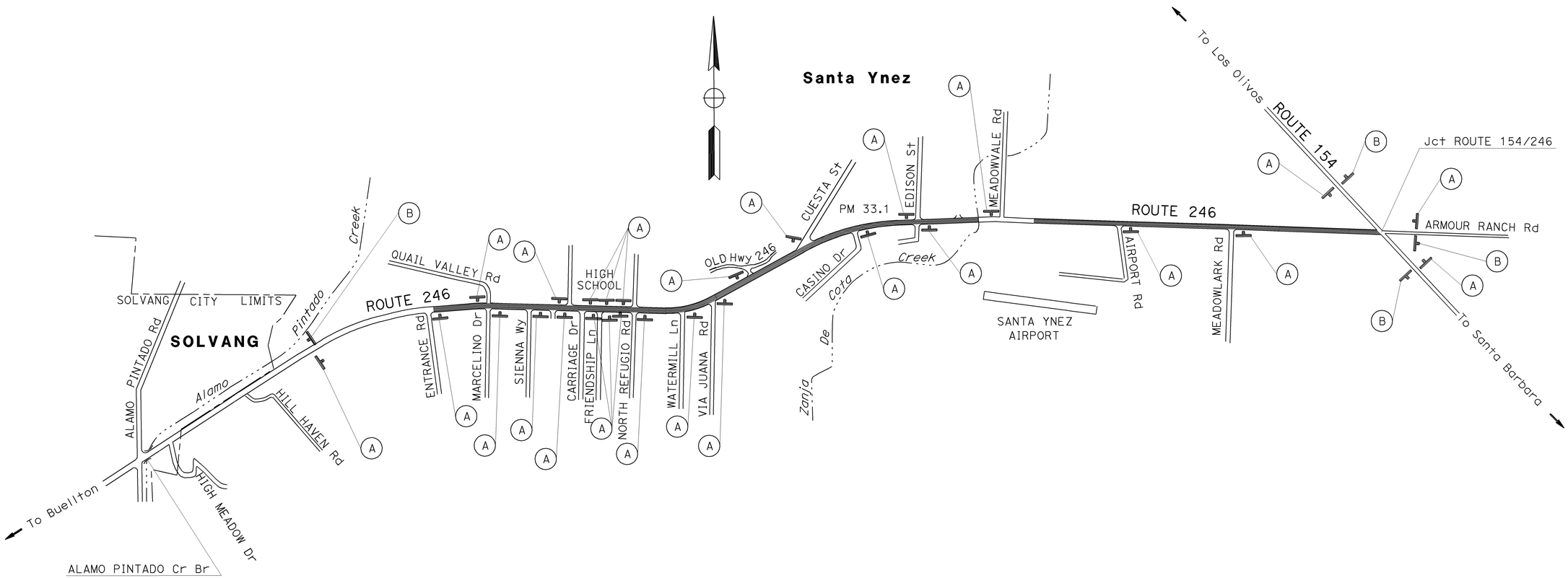
REGISTERED PROFESSIONAL ENGINEER MARK CRESSWELL No. 63117 Exp 6/30/14 CIVIL STATE OF CALIFORNIA

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.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No. (X)	SIGN CODE FEDERAL	SIGN CODE CALIFORNIA	PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
A	W20-1		30" x 30"	ROAD WORK AHEAD	1 - 4" x 4"	27
B	G20-2		36" x 18"	END ROAD WORK	1 - 4" x 4"	4

NOTE: LOCATION OF CONSTRUCTION AREA SIGNS ARE APPROXIMATE. EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER.



CONSTRUCTION AREA SIGNS

NO SCALE **CS-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR KELLY J. McCLAIN
CALCULATED-DESIGNED BY MARK CRESSWELL
CHECKED BY KELLY J. McCLAIN
REVISED BY
DATE REVISED

LAST REVISION 01-29-13
DATE PLOTTED => 08-FEB-2013
TIME PLOTTED => 14:10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	246	31.4/34.6	11	25

REGISTERED CIVIL ENGINEER 1-29-13 DATE

2-11-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MARK CRESSWELL No. 63117 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.

ABBREVIATION:

ISA = INTERNATIONAL SYMBOL OF ACCESSIBILITY

PAVEMENT DELINEATION

LOCATION	DETAIL No.	REMOVE THERMOPLASTIC TRAFFIC STRIPE	REMOVE THERMOPLASTIC PAVEMENT MARKING	4" THERMOPLASTIC TRAFFIC STRIPE				8" THERMOPLASTIC TRAFFIC STRIPE	THERMOPLASTIC PAVEMENT MARKING	PAVEMENT MARKER (RETROREFLECTIVE)			DESCRIPTION/ COMMENTS
				YELLOW (BROKEN 36-12)	YELLOW SOLID	WHITE SOLID	BLUE SOLID	WHITE SOLID		TYPE D	TYPE G	TYPE H	
		LF	SQFT	LF	LF	LF	LF	LF	SQFT	EA	EA	EA	
ROUTE 246	22	14,698			14,698					614			
SIDE ROADS	22	1,272			1,272					54			
ROUTE 246	25	220			220							10	
ROUTE 246	27B	29,761				29,761							
PARK & RIDE LOT		453				453							PARKING LINES
ROUTE 246	29	17,128			17,128					358			
ROUTE 246	32	8,588		6,870	6,870					360			
ROUTE 246	38	8,016						4,008			167		
SIDE ROADS	38A	140						70					
PARK & RIDE LOT		64					64						BLUE ISA PARKING BUFFER
PARK & RIDE LOT			75						75				TYPE 1 18' ARROW
ROUTE 246			31						31				TYPE 1 24' ARROW
ROUTE 246			462						462				TYPE III (L/R) ARROW
ROUTE 246 AND SIDE ROADS			690						690				TYPE IV (L/R) ARROW
ROUTE 246			132						132				TYPE V ARROW
ROUTE 246 AND SIDE ROADS			552						552				LIMIT LINE (STOP LINE)
ROUTE 246 AND SIDE ROADS			537						537				CROSS WALK (WHITE)
ROUTE 246			174						174				CROSS WALK (YELLOW)
ROUTE 246 MEDIAN			2,015						2,015				8" WIDE DIAGONALS (YELLOW)
ROUTE 246 AND SIDE ROADS			124						124				"AHEAD"
ROUTE 246			22						22				"ONLY"
ROUTE 246			64						64				"SIGNAL"
ROUTE 246 AND SIDE ROADS			165						165				"STOP"
PARK & RIDE LOT									2				"NO PARKING"
PARK & RIDE LOT			9						9				ISA MARKING (WHITE)
PARK & RIDE LOT			14						14				ISA MARKING (BLUE)
TOTAL		80,340	5,066	6,870	70,466			4,078	5,068	1,563			

PAVEMENT DELINEATION QUANTITIES

NO SCALE **PDQ-1**

REVISED BY | DATE REVISED
MARK CRESSWELL | KELLY J. McCLAIN
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN

LAST REVISION 01-29-13 | DATE PLOTTED => 08-FEB-2013 | TIME PLOTTED => 14:11

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	246	31.4/34.6	12	25

REGISTERED CIVIL ENGINEER 1-29-13 DATE

2-11-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MARK CRESSWELL No. 63117 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.

HMA DIKE AND SHOULDER BACKING

SIDE	LOCATION (PM) FROM	LOCATION (PM) TO	REMOVE AC DIKE	PLACE HOT MIX ASPHALT DIKE TYPE A	PLACE HOT MIX ASPHALT DIKE TYPE D	PLACE HOT MIX ASPHALT DIKE TYPE E	HMA (TYPE A)	SHOULDER BACKING	ASPHALTIC EMULSION (FOG SEAL COAT)
	FROM	TO	LF	LF	LF	LF	TON	TON	TON
EASTBOUND	31.40	31.45	265	265			2.4		
	31.45	31.50	265		265		5.1		
	31.50	31.86						56	
	31.86	31.97							0.04
	31.97	32.10						20	
	32.10	32.14							0.05
	32.14	32.52						59	
	32.52	32.55	159			159	1.4		
	32.55	33.14							0.05
	33.14	33.19	264	264			2.4		
	33.19	33.24	265		265		5.1	8	
	33.54	33.57	159		159		3.1		
	33.57	33.70	687	687			6.1		
	33.70	33.74	212		212		4.1		
	33.74	33.97						36	
	33.97	34.08	581		581		11.2		
	34.08	34.19	581	581			5.2		
	34.19	34.21	106		106		2.1		
	34.21	34.37						25	
	34.37	34.40	159		159		3.1		
	34.40	34.51	581	581			5.2		
	34.51	34.60						14	
	SUBTOTAL		4,284	2,378	1,747	159	56.5	218	0.13
WESTBOUND	31.40	32.34						144	
	32.34	32.38	212		212		4.1		
	32.38	32.50	634	634			5.6		
	32.50	32.53	159		159		3.1		
	32.53	32.54	53			53	0.5		
	32.54	32.68						22	
	32.68	32.79							0.04
	32.79	33.10						48	
	33.13	33.21	423	423			3.8		
	33.21	33.24		159			3.9		
	33.54	33.60	317	317			2.8		
	33.61	33.68	370	370			3.3		
	33.68	33.72	212	212			1.9		
	33.72	33.74	106		106		2.1		
	33.74	34.00						40	
	34.00	34.05	264		264		5.1		
	34.05	34.20	793	793			7.0		
	34.20	34.22	106		106		2.1		
	34.22	34.43						33	
	34.43	34.49	317		317		6.1		
	34.49	34.57	423	423			3.8		
	34.57	34.60						5	
	SUBTOTAL		4,389	3,331	1,164	53	55.2	292	0.04
	TOTAL		8,673	5,709	2,911	212	111.7 *	510	0.17

* = QUANTITY INCLUDED IN PAVEMENT STRUCTURE QUANTITIES SUMMARY

SUMMARY OF QUANTITIES

NO SCALE

Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR KELLY J. McCLAIN
CALCULATED-DESIGNED BY MARK CRESSWELL
CHECKED BY KELLY J. McCLAIN
REVISED BY
DATE REVISED

LAST REVISION 01-29-13 DATE PLOTTED => 08-FEB-2013 TIME PLOTTED => 14:13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	246	31.4/34.6	13	25

REGISTERED CIVIL ENGINEER 1-29-13 DATE

2-11-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MARK CRESSWELL No. 63117 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.

ABBREVIATION:

RHMA = RUBBERIZED HOT MIX ASPHALT (GAP GRADED)

COLD PLANE AND PAVE MISCELLANEOUS AREAS

LOCATION	SIDE	DESCRIPTION	** CONFORM OFFSET	COLD PLANE AC PAVEMENT	TACK COAT	RHMA-G	HOT MIX ASPHALT (TYPE A)
PM	EB / WB		FT	SQYD	TON	TON	TON
31.40	EB & WB	BEGIN PROJECT CONFORM		289	0.10	19	
31.50	EB	MEADOWLARK INN PRIVATE DRIVEWAY	30		0.04	8	
31.62	WB	QUAIL VALLEY Rd	55	79	0.19	37	
31.62	EB	MARCELINO Dr	35	103	0.09	16	
31.69	WB	PRIVATE DRIVEWAY	35		0.04	8	
31.72	WB	PRIVATE DRIVEWAY	30		0.04	8	
31.75	EB	EXTERIOR Rd	30	50	0.04	8	
31.76	WB	PRIVATE DRIVEWAY	30		0.02	3	
31.81	EB	PRIVATE DRIVEWAY	30		0.04	7	
31.82	WB	PRIVATE DRIVEWAY / ECHO Ln	40		0.07	13	
31.85	EB	CARRIAGE Dr	30	85	0.05	10	
31.90	EB	FRIENDSHIP Ln	30	71	0.05	10	
31.90 TO 31.97	EB	FRIENDSHIP Ln TO EL RANCHO MARKET		142			
31.95	WB	SANTA YNEZ HIGH SCHOOL, WEST ENTRANCE	23	128	0.05	9	
31.96	EB	EL RANCHO MARKET	30	127	0.05	10	
32.01	EB	TRAILOR PARK, WEST ENTRANCE	30	160	0.09	17	
32.04	EB	TRAILOR PARK, EAST ENTRANCE	30	87	0.06	11	
32.05	WB	SANTA YNEZ HIGH SCHOOL, EAST ENTRANCE	23	152	0.06	10	
32.11	WB	NORTH REFUGIO Rd CONFORMS	100	181	0.23		45
32.10 TO 32.14	EB & WB	NORTH REFUGIO Rd; LANES & SHOULDERS			0.46		89
32.11	EB	NORTH REFUGIO Rd CONFORMS	100	168	0.26		50
32.25	WB	MOTOR LODGE	20		0.05	9	
32.29	WB	GAS STATION	20		0.05	10	
32.31	EB	PRIVATE DRIVEWAY	20		0.04	8	
32.32	WB	CESAR'S AUTO DETAILING	20		0.04	7	
32.33	WB	PRIVATE DRIVEWAY	20		0.03	5	
32.37	EB	VIA JUANA Ln	35	105	0.10	18	
32.54	EB	AMBER FARMS Rd	30	81	0.07	13	
32.66	EB	PRIVATE DRIVEWAY	20		0.01	2	
32.79	WB	CUESTA St	60 / 80	60	0.14		27
32.78 TO 32.87	EB	CUESTA St TO CASINO Dr		166	0.59		114
32.79 TO 32.87	WB	CASINO Dr TO CUESTA St		173	0.52		101
32.85	EB	CASINO Dr	25	148	0.04		7
33.10	WB	GAS STATION	20		0.04	7	
33.12	WB	EDISON St CONFORMS	29 / 35	131	0.06		11
33.11 TO 33.15	EB & WB	EDISON/SANJA COTA INTERSECTION			0.33		65
33.12	EB	SANJA COTA Ave CONFORMS	23 / 26	147	0.04		8
33.24 & 33.54	EB & WB	MEADOWVALE Rd OVERLAY GAP CONFORMS		418	0.14	28	
33.61	WB	PRIVATE DRIVEWAY	30		0.05	9	
33.68	WB	PRIVATE DRIVEWAY	30		0.05	9	
33.82	EB	AIRPORT Rd	50	67	0.13	26	
33.98	EB	GAINEY VINEYARD	30	143	0.08	16	
34.22	EB	MEADOWLARK Rd	50	64	0.10	19	
34.40	WB	PARK & RIDE LOT	54		0.42	82	
34.45 TO 34.60	EB & WB	ROUTE 154 / 246 JUNCTION	N/A	1,150	1.87	366	
			TOTAL	4,675*	7.02*	838*	517*

* = QUANTITY INCLUDED IN PAVEMENT STRUCTURE QUANTITIES SUMMARY

** CONFORM OFFSET = PAVEMENT CONFORM, OFFSET FROM ROADWAY ETW
SEE "TYPICAL DRIVEWAY CONFORM" AND "TYPICAL ROAD CONFORM" ON CONSTRUCTION DETAILS SHEETS

SUMMARY OF QUANTITIES

NO SCALE

Q-2

REVISED BY | DATE REVISED
MARK CRESSWELL | KELLY J. McCLAIN
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
KELLY J. McCLAIN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN

LAST REVISION 01-29-13 | DATE PLOTTED => 08-FEB-2013 | TIME PLOTTED => 14:14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	246	31.4/34.6	14	25

REGISTERED CIVIL ENGINEER 1-29-13 DATE

2-11-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MARK CRESSWELL No. 63117 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.

REPAIR FAILED AREAS

LOCATION (PM)		LENGTH	WIDTH	COLD PLANE AC PAVEMENT	HOT MIX ASPHALT (TYPE A)	TACK COAT	DESCRIPTION
FROM	TO	LF	LF	SQYD	TON	TON	
31.62	31.64	120	12	160	1.2	0.06	TWO WAY LEFT TURN LANE
31.72	31.77	280	12	374	2.8	0.13	TWO WAY LEFT TURN LANE
31.78	31.85	410	4	183	1.4	0.07	WB R† WHEEL PATH
31.82	31.83	70	12	94	0.7	0.04	TWO WAY LEFT TURN LANE
31.87	31.89	100	12	134	1.0	0.05	TWO WAY LEFT TURN LANE
31.95	31.96	70	4	32	0.3	0.02	EB JOINT AT LANE & R† TURN LANE
32.36	32.38	160	24	427	3.1	0.15	EB LANE & TWO WAY LEFT TURN LANE
32.59	32.61	100	4	45	0.4	0.02	EB LEFT WHEEL PATH
33.80	33.82	80	12	107	0.8	0.04	LEFT TURN LANE
33.81	33.83	120	20	267	2.0	0.09	EB SHOULDER & DRIVEWAY
33.97	33.99	110	19	233	1.7	0.08	WB LANE & MEDIAN
34.22	34.24	80	12	107	0.8	0.04	EB LANE
			TABLE TOTAL	2,163*	16.2*	0.79*	

* = QUANTITY INCLUDED IN PAVEMENT STRUCTURE QUANTITIES SUMMARY

DOWNDRAINS

LOCATION	SIDE OF ROAD	DIAMETER	ADJUST DOWNDRAIN	NOTES
PM	EB/WB	INCH	EA	
31.45	EB	18	1	ADJUST OUTLET TO GRADE ON PAVED SHOULDER

PAVEMENT STRUCTURE

LOCATION	TACK COAT	COLD PLANE AC PAVEMENT	RUBBERIZED HOT MIX ASPHALT (GAP GRADED)	HOT MIX ASPHALT (TYPE A)
	TON	SQYD	TON	TON
PM 31.40 TO 34.45 - LANES AND SHOULDERS	23.99		4,686	
FROM "COLD PLANE AND PAVE MISCELLANEOUS AREAS"	7.02	4,675	838	517.0
FROM "REPAIR FAILED AREAS"	0.79	2,163		16.2
FROM "DIKE AND SHOULDER BACKING"				111.7
TOTAL	31.80	6,838	5,524	644.9

SUMMARY OF QUANTITIES

NO SCALE **Q-3**

REVISED BY | DATE REVISED
MARK CRESSWELL | KELLY J. McCLAIN
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

LAST REVISION 01-29-13 | DATE PLOTTED => 08-FEB-2013 | TIME PLOTTED => 14:16

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	246	31.4/34.6	15	25

REGISTERED ELECTRICAL ENGINEER — DATE 1-29-13

PLANS APPROVAL DATE 2-11-13

REGISTERED PROFESSIONAL ENGINEER K.J.VOMASKE No. 15720 Exp. 6-30-14 ELECTRICAL STATE OF CALIFORNIA

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

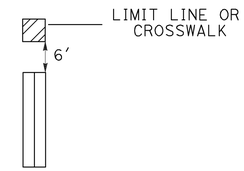
NOTES:

1. EXTEND THE FRONT END OF TYPE D LOOPS 2′ PAST LIMIT LINE OR CROSSWALK.
2. COMPLETE SIGNAL AND LIGHTING SYSTEM IS NOT SHOWN.
3. AB Exist LOOP DETECTORS TO BE REPLACED.
4. USE EXISTING TERMINATION CONDUITS FOR NEW LOOP CONDUCTORS. RAISE Exist DETECTOR HANDHOLES TO FG.
5. TYPE D LOOPS MUST HAVE 5 TURNS EACH AND BE SPLICED IN SERIES WITH TYPE C LOOPS UNLESS SHOWN OTHERWISE.

LEGEND:

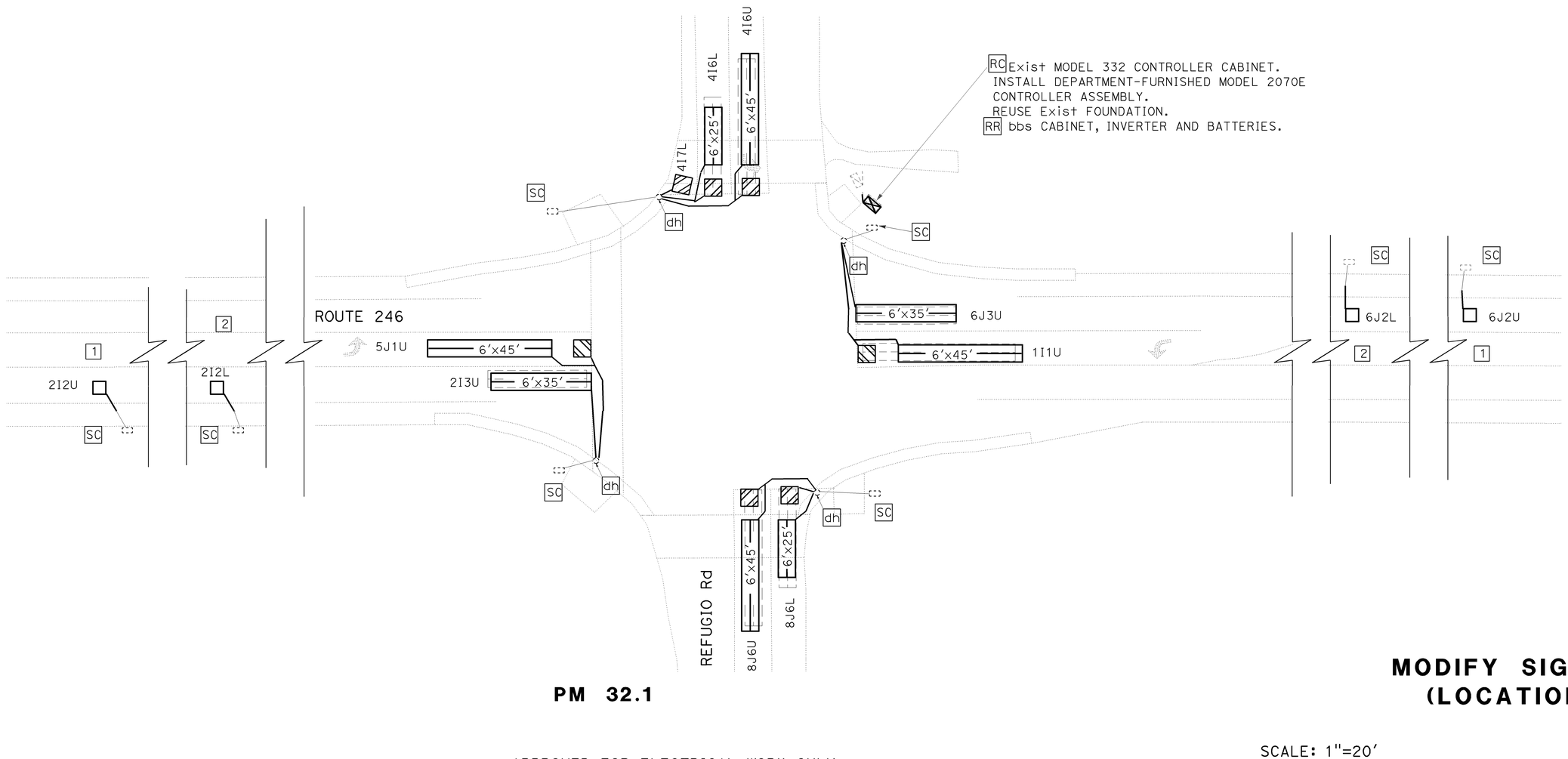
1 405′ TO CROSSWALK OR LIMIT LINE

2 245′ TO CROSSWALK OR LIMIT LINE



DETAIL

Typ DETECTOR LOOP ARRAY



PM 32.1

MODIFY SIGNAL (LOCATION 1)

SCALE: 1"=20′

E-1

APPROVED FOR ELECTRICAL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN

CALCULATED-DESIGNED BY: KEN VOMASKE

CHECKED BY: JULIE M. GONZALEZ

REVISED BY / DATE REVISED

LAST REVISION 2-06-13

DATE PLOTTED => 08-FEB-2013

TIME PLOTTED => 14:27

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	246	31.4/34.6	16	25

REGISTERED ELECTRICAL ENGINEER — DATE 1-29-13

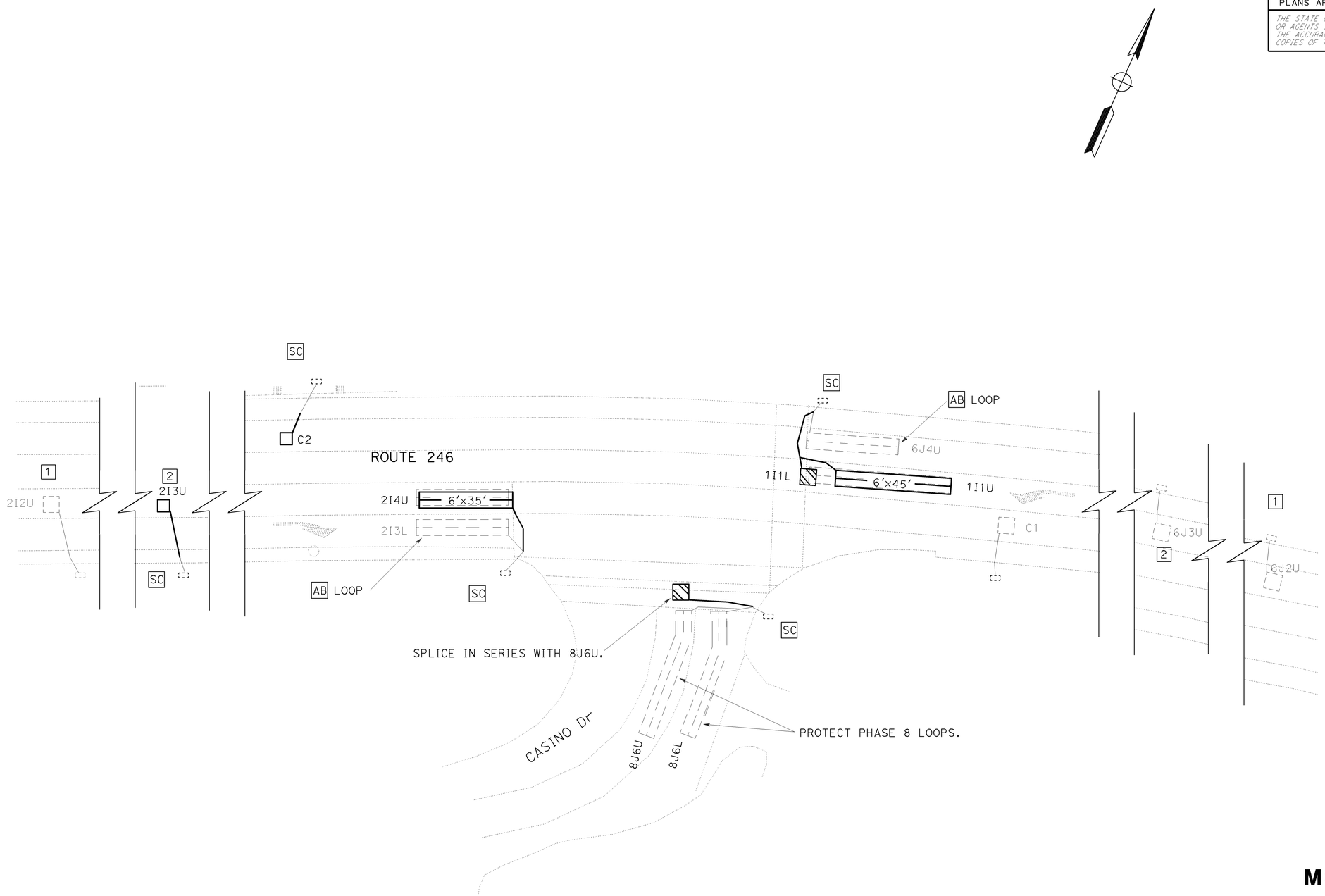
PLANS APPROVAL DATE 2-11-13

REGISTERED PROFESSIONAL ENGINEER K.J.VOMASKE No. 15720 Exp. 6-30-14 ELECTRICAL STATE OF CALIFORNIA

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

NOTE:

1. EXISTING SIGNAL AND LIGHTING SYSTEM NOT SHOWN



PM 32.84

MODIFY SIGNAL (LOCATION 2)

APPROVED FOR ELECTRICAL WORK ONLY

SCALE: 1"=20'

E-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN

CALCULATED-DESIGNED BY: KEN VOMASKE
CHECKED BY: JULIE M. GONZALEZ

REVISED BY
DATE REVISED

LAST REVISION 2-07-13
DATE PLOTTED => 08-FEB-2013
TIME PLOTTED => 14:28

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	246	31.4/34.6	17	25

REGISTERED ELECTRICAL ENGINEER — DATE 1-29-13

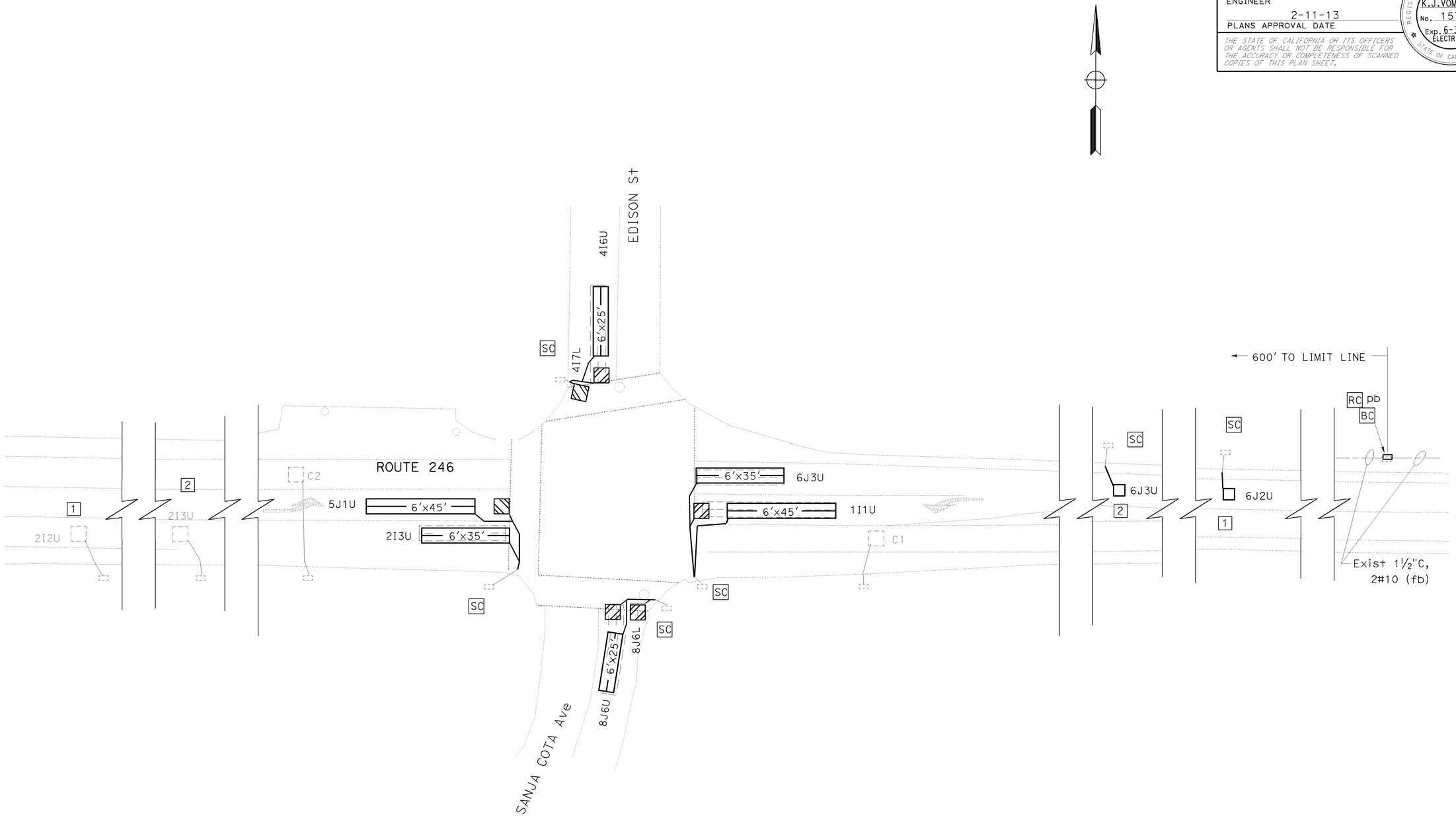
PLANS APPROVAL DATE 2-11-13

REGISTERED PROFESSIONAL ENGINEER K.J.VOMASKE No. 15720 Exp. 6-30-14 ELECTRICAL STATE OF CALIFORNIA

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

NOTE:

1. EXISTING SIGNAL AND LIGHTING SYSTEM NOT SHOWN



PM 33.12

MODIFY SIGNAL

(LOCATION 3)

APPROVED FOR ELECTRICAL WORK ONLY

SCALE: 1"=20'

E-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN

CALCULATED-DESIGNED BY: KEN VOMASKE

CHECKED BY: JULIE M. GONZALEZ

REVISED BY

DATE REVISED

LAST REVISION 2-07-13

DATE PLOTTED => 08-FEB-2013

TIME PLOTTED => 14:28

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	246	31.4/34.6	18	25

REGISTERED ELECTRICAL ENGINEER — DATE 1-29-13

PLANS APPROVAL DATE 2-11-13

REGISTERED PROFESSIONAL ENGINEER K.J.VOMASKE No. 15720 Exp. 6-30-14 ELECTRICAL STATE OF CALIFORNIA

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

NOTE:

THE QUANTITIES ON THIS SHEET ARE FOR INFORMATION ONLY AND ARE NOT SEPARATE PAY ITEMS.

MODIFY SIGNAL (LOCATION 1)

SHEET No.	LOOP: TYPE D	LOOP: TYPE C			LOOP: TYPE A	REPLACE CONTROLLER CABINET
		6'x25'	6'x35'	6'x45'		
	EA	EA	EA	EA	EA	EA
E-1	7	2	2	4	4	1

MODIFY SIGNAL (LOCATION 2)

SHEET No.	LOOP: TYPE D	LOOP: TYPE C		LOOP: TYPE A
		6'x35'	6'x45'	
	EA	EA	EA	EA
E-2	2	1	1	2

MODIFY SIGNAL (LOCATION 3)

SHEET No.	LOOP: TYPE D	LOOP: TYPE C			LOOP: TYPE A	REPLACE No. 5 PB
		6'x25'	6'x35'	6'x45'		
	EA	EA	EA	EA	EA	EA
E-3	6	2	2	2	2	1

ELECTRICAL QUANTITIES

E-4

REVISED BY | DATE REVISED

KEN VOMASKE | JULIE M. GONZALEZ

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans MAINTENANCE DESIGN

LAST REVISION 2-07-13 | DATE PLOTTED => 08-FEB-2013 | TIME PLOTTED => 14:29

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	246	31.4/34.6	19	25

REGISTERED CIVIL ENGINEER 12-7-12 DATE

2-11-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Gurinderpal Bhullar No. C48815 Exp. 9-30-14 CIVIL STATE OF CALIFORNIA

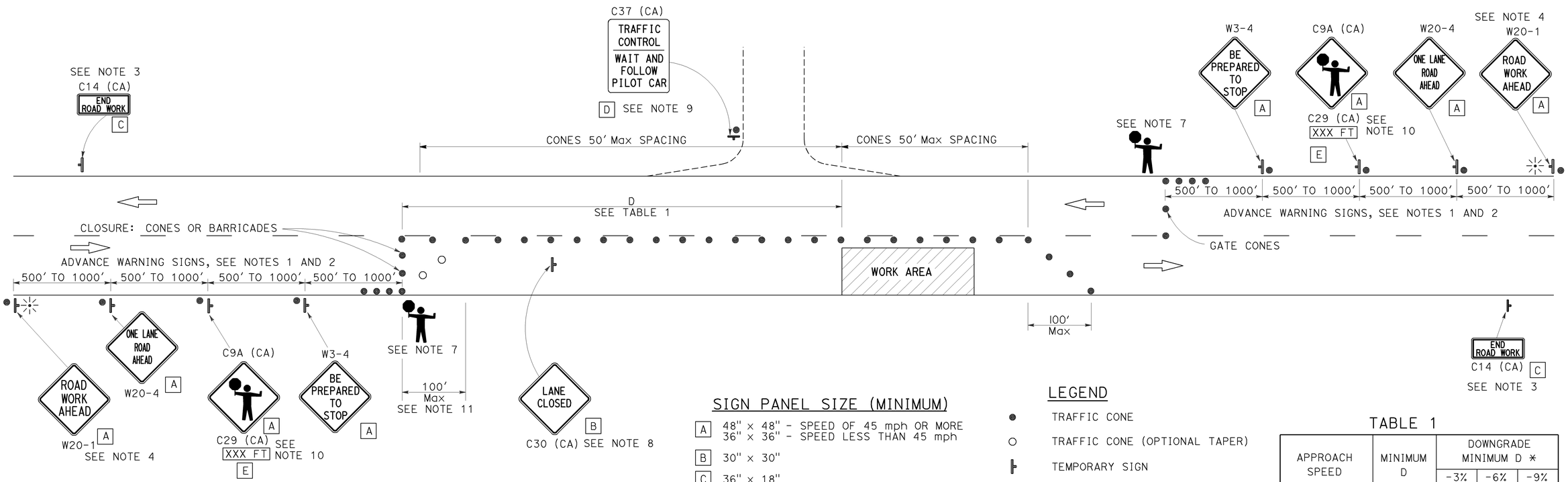
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

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

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

TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL



SIGN PANEL SIZE (MINIMUM)

- A: 48" x 48" - SPEED OF 45 mph OR MORE; 36" x 36" - SPEED LESS THAN 45 mph
- B: 30" x 30"
- C: 36" x 18"
- D: 36" x 42"
- E: 36" x 9"

LEGEND

- TRAFFIC CONE
- TRAFFIC CONE (OPTIONAL TAPER)
- TEMPORARY SIGN
- PORTABLE FLASHING BEACON
- FLAGGER

TABLE 1

APPROACH SPEED	MINIMUM D	DOWNGRADE MINIMUM D *		
		-3%	-6%	-9%
mph	ft	ft	ft	ft
25 AND BELOW	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

* USE ON SUSTAINED DOWNGRADE STEEPER THAN -3 PERCENT AND LONGER THAN 1 MILE.

NOTES:

1. Where approach speeds are low, advance warning signs may be placed at 300' spacing, and closer in urban areas.
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 C14 (CA) "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.
4. If the W20-1 sign would follow within 2000' of a stationary W20-1 or C11 (CA) "ROAD WORK NEXT _____MILES", use a W20-4 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. 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.
8. 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.
9. When a pilot car is used, place a C37 (CA) "TRAFFIC CONTROL-WAIT AND FOLLOW PILOT CAR" sign at all intersections within traffic control area. Signs shall be clean and visible at all times.
10. An optional C29 (CA) sign may be placed below the C9A (CA) sign.
11. Traffic cones or barricades may be placed on the optional taper as shown, barricades shall be Type I, II, or III.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON TWO LANE CONVENTIONAL HIGHWAYS

NO SCALE

TCS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

FUNCTIONAL SUPERVISOR | CALCULATED-DESIGNED BY | CHECKED BY | REVISED BY | DATE REVISED

LAST REVISION 02-06-13 | DATE PLOTTED => 10-DEC-2012 | TIME PLOTTED => 09:45

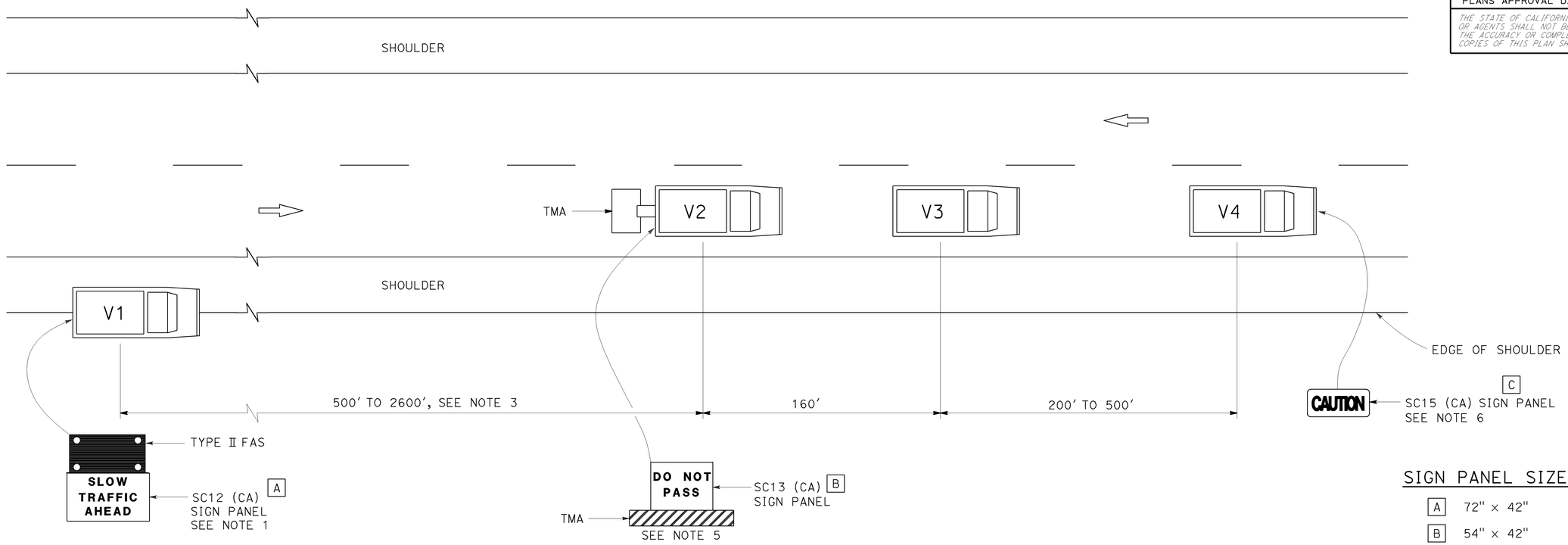
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	246	31.4/34.6	20	25

REGISTERED CIVIL ENGINEER 12-7-12 DATE

2-11-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Gurinderpal Bhullar No. C48815 Exp. 9-30-14 CIVIL STATE OF CALIFORNIA

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



SIGN PANEL SIZE (Min)

A	72" × 42"
B	54" × 42"
C	54" × 24"

LEGEND

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

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR MOVING LANE CLOSURE ON TWO LANE HIGHWAYS

NO SCALE

TCS-2

REVISED BY | DATE REVISED
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 02-06-13
DATE PLOTTED => 10-DEC-2012
TIME PLOTTED => 09:45

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	246	31.4/34.6	21	25

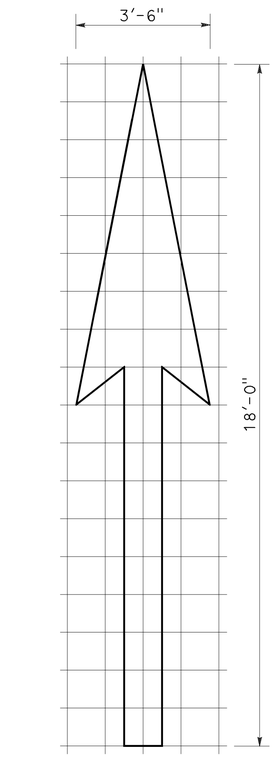
REGISTERED CIVIL ENGINEER

April 20, 2012
PLANS APPROVAL DATE

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

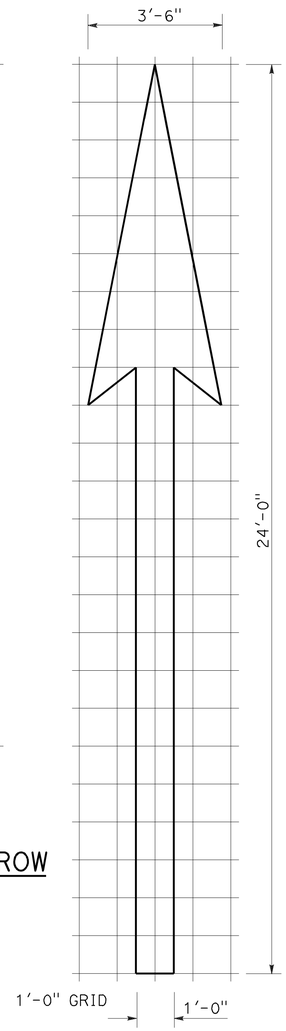
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

TO ACCOMPANY PLANS DATED 2-11-13



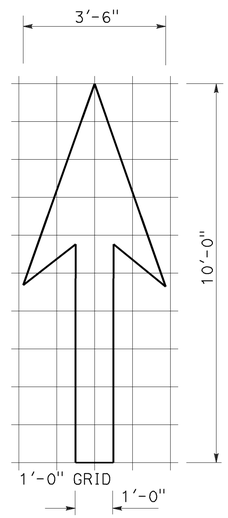
A=25 ft^2

TYPE I 18'-0" ARROW



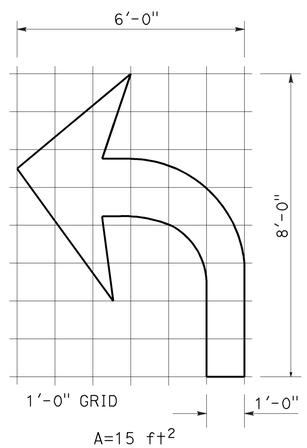
A=31 ft^2

TYPE I 24'-0" ARROW



A=14 ft^2

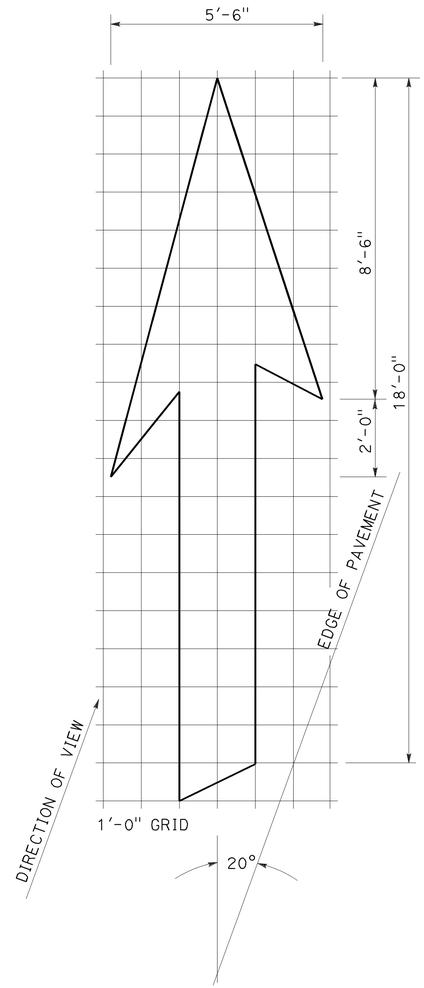
TYPE I 10'-0" ARROW



A=15 ft^2

TYPE IV (L) ARROW

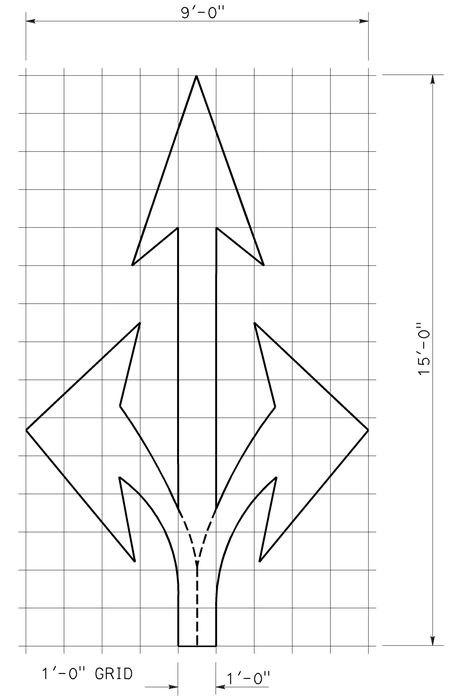
(For Type IV (R) arrow, use mirror image)



A=42 ft^2

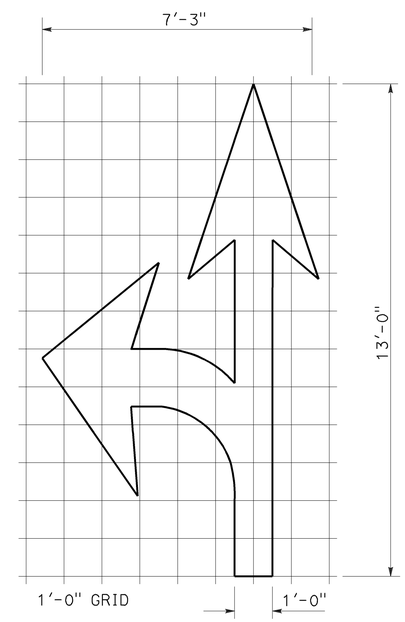
TYPE VI ARROW

Right lane drop arrow
(For left lane, use mirror image)



A=36 ft^2

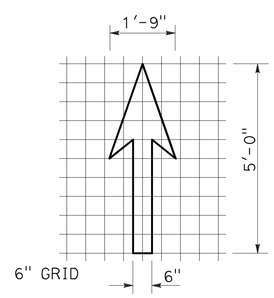
TYPE VIII ARROW



A=27 ft^2

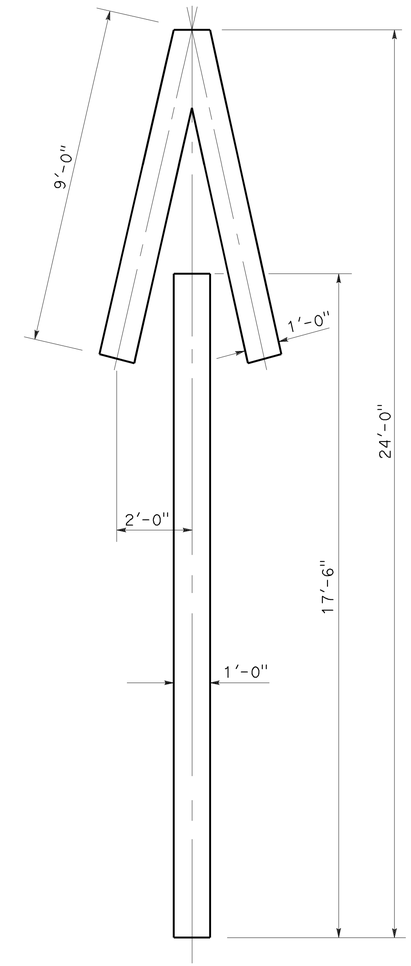
TYPE VII (L) ARROW

(For Type VII (R) arrow, use mirror image)



A=3.5 ft^2

BIKE LANE ARROW



A=33 ft^2

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

3-14-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	246	31.4/34.6	22	25

REGISTERED CIVIL ENGINEER

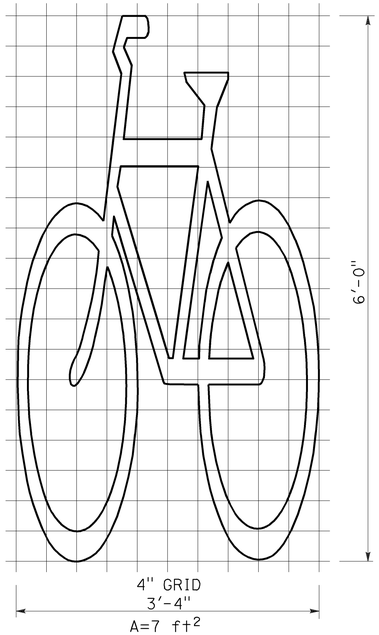
October 19, 2012
PLANS APPROVAL DATE

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

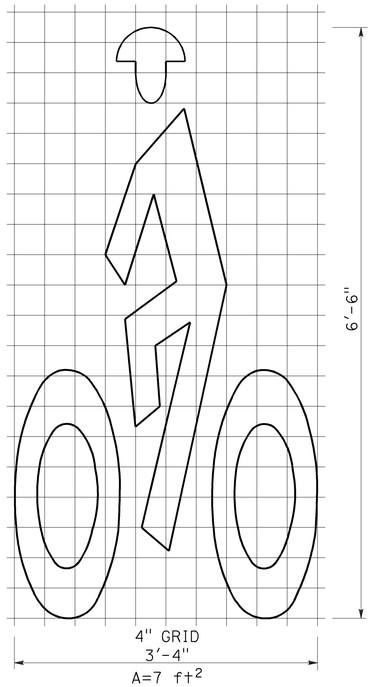
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE: TO ACCOMPANY PLANS DATED 2-11-13

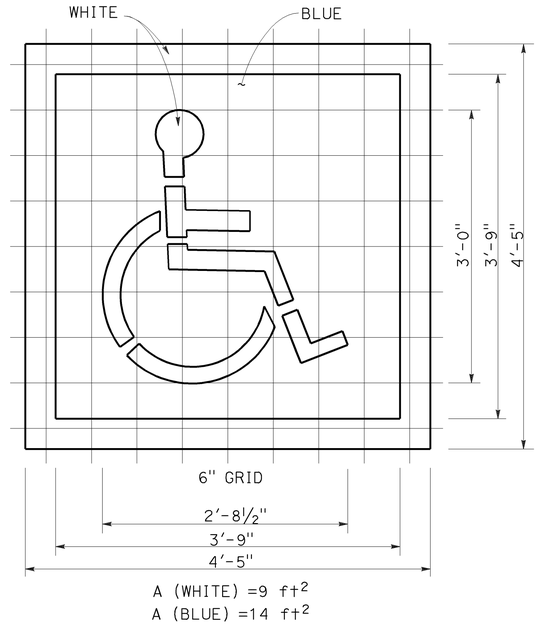
Minor variations in dimensions may be accepted by the Engineer.



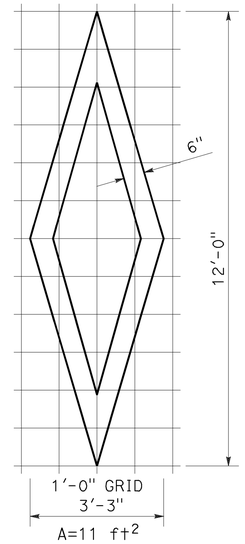
BIKE LANE SYMBOL WITHOUT PERSON



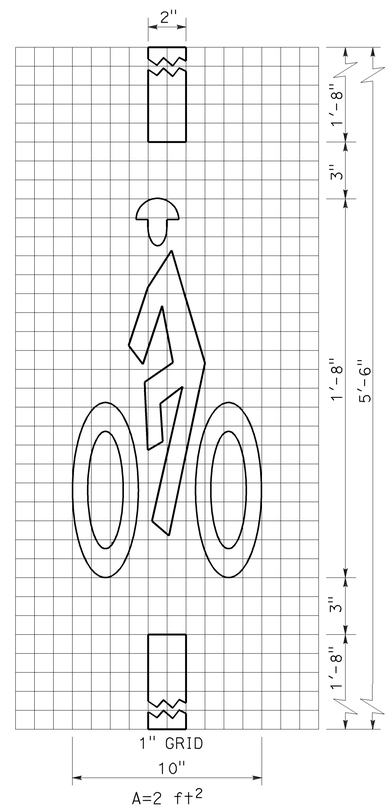
BIKE LANE SYMBOL WITH PERSON



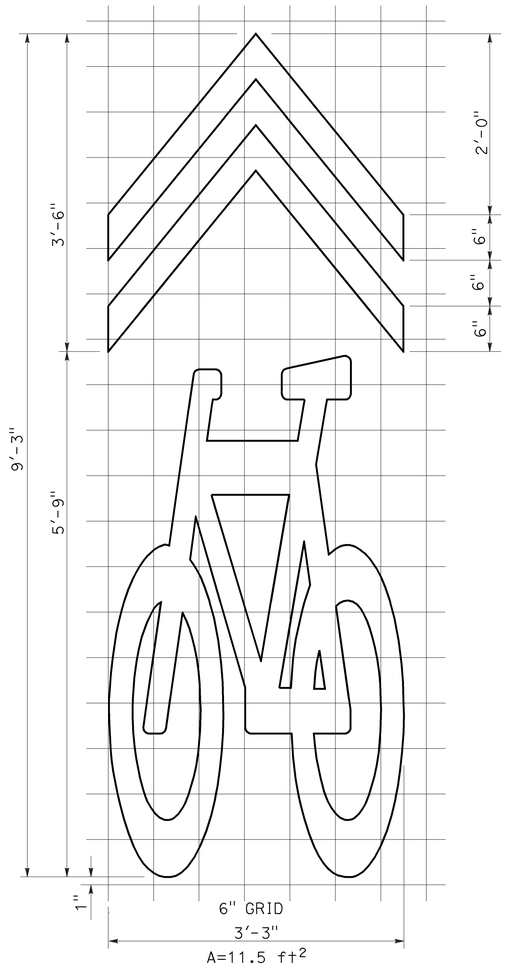
INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA) MARKING



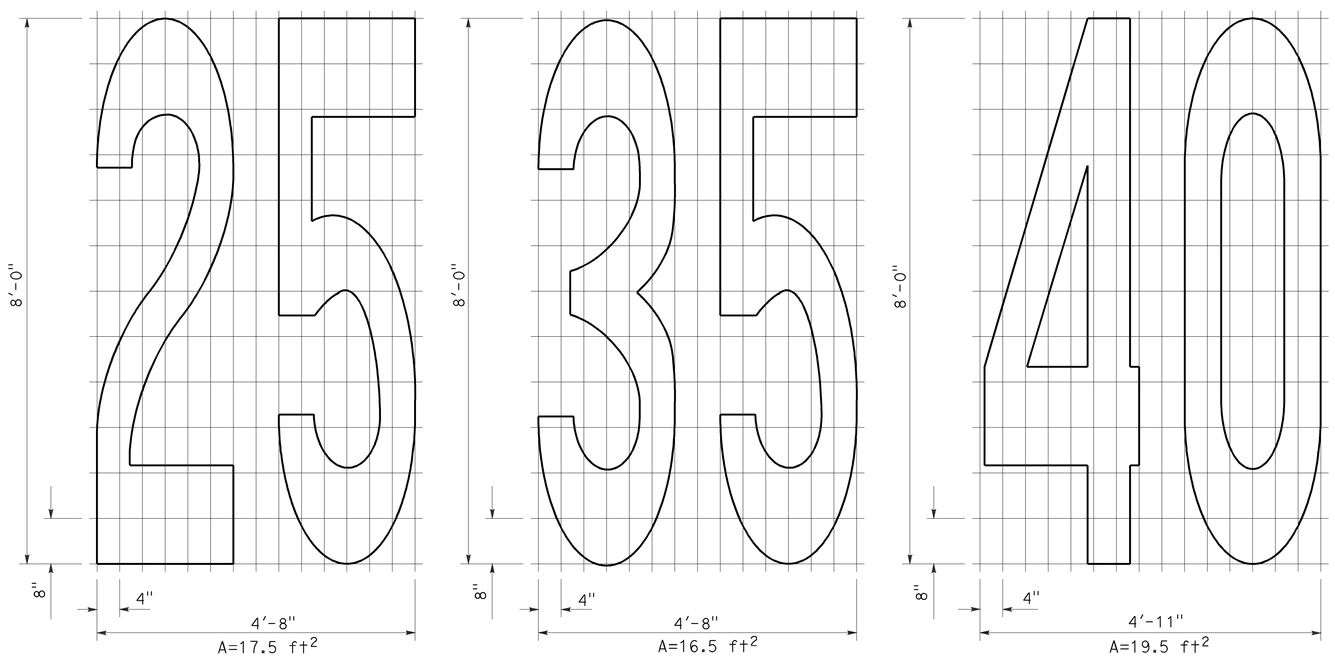
DIAMOND SYMBOL



BICYCLE LOOP DETECTOR SYMBOL



SHARED ROADWAY BICYCLE MARKING



NUMERALS

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS SYMBOLS AND NUMERALS

NO SCALE

RSP A24C DATED OCTOBER 19, 2012 SUPERSEDES STANDARD PLAN A24C DATED MAY 20, 2011 - PAGE 15 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A24C

2010 REVISED STANDARD PLAN RSP A24C

6-28-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	246	31.4/34.6	23	25

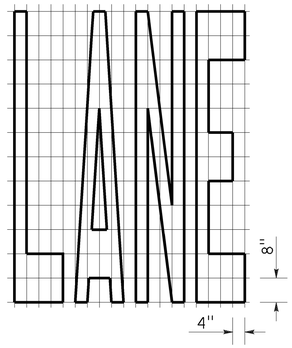
REGISTERED CIVIL ENGINEER

July 20, 2012
PLANS APPROVAL DATE

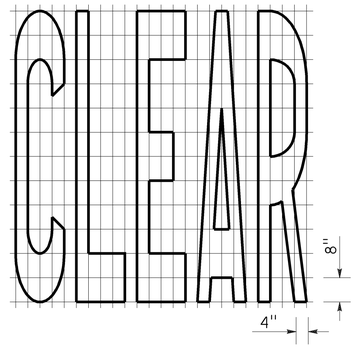
REGISTERED PROFESSIONAL ENGINEER
Roberta L. McLaughlin
No. C40375
Exp. 3-31-13
CIVIL
STATE OF CALIFORNIA

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.

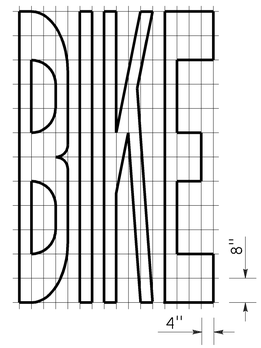
TO ACCOMPANY PLANS DATED 2-11-13



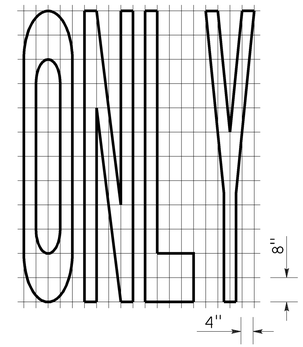
A=24 ft^2



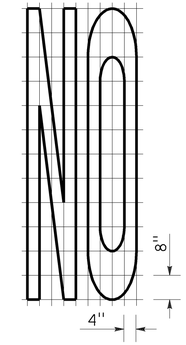
A=27 ft^2



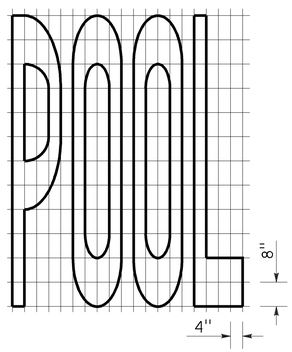
A=21 ft^2



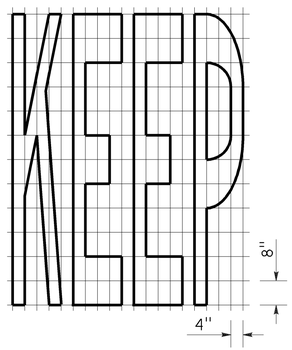
A=22 ft^2



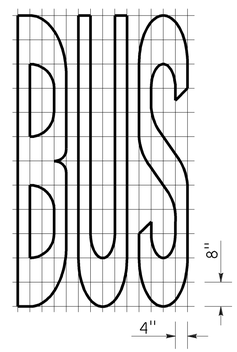
A=14 ft^2



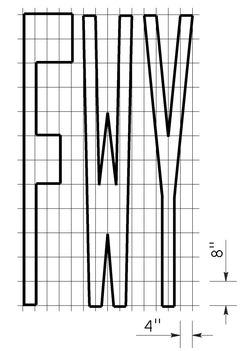
A=23 ft^2



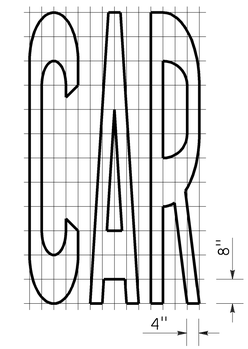
A=24 ft^2



A=20 ft^2

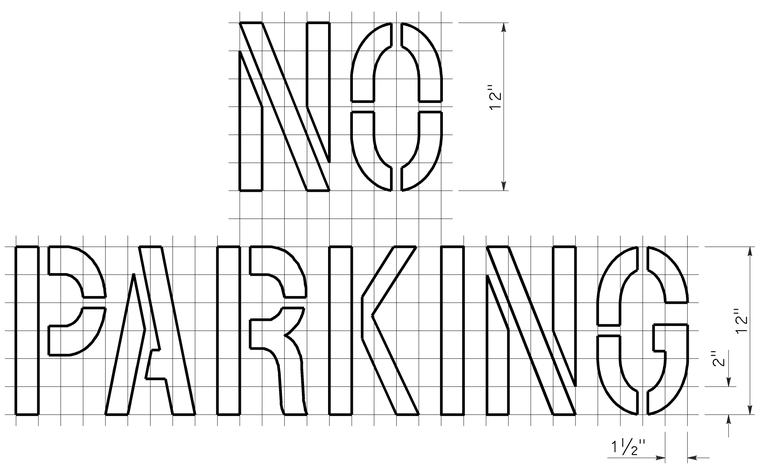


A=16 ft^2

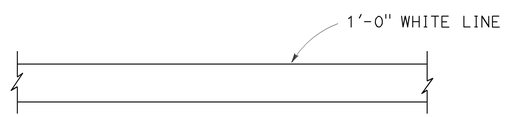


A=17 ft^2

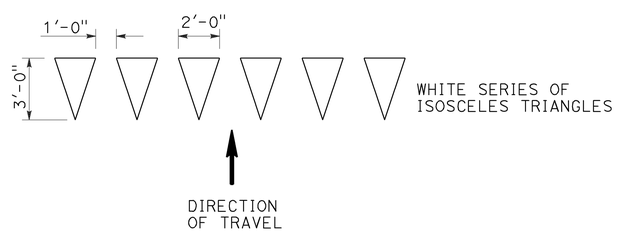
WORD MARKINGS			
ITEM	ft^2	ITEM	ft^2
LANE	24	NO	14
POOL	23	BIKE	21
CAR	17	BUS	20
CLEAR	27	ONLY	22
KEEP	24	FWY	16



A=2 ft^2
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

6-12-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	246	31.4/34.6	24	25

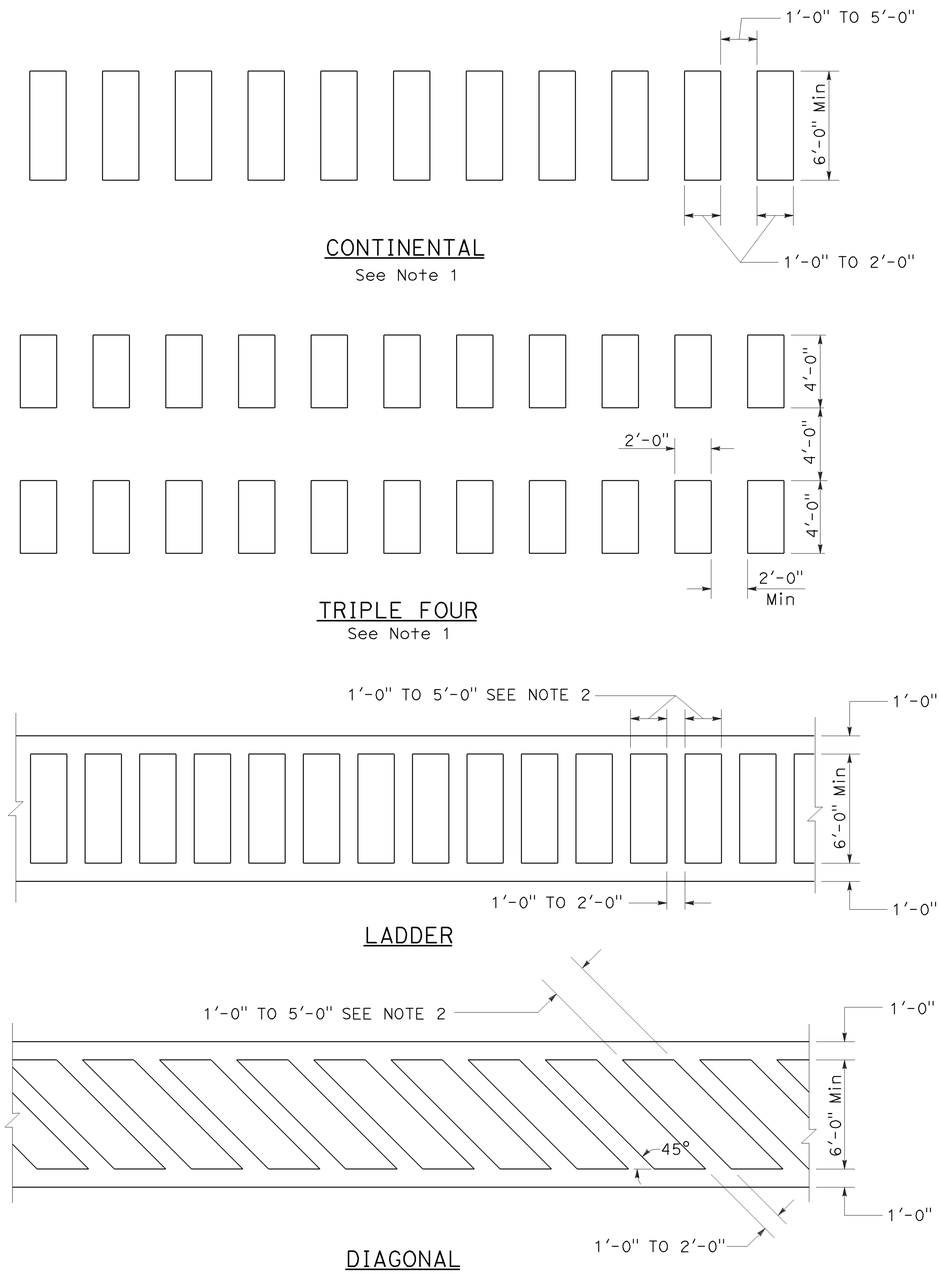
REGISTERED CIVIL ENGINEER

July 20, 2012
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Roberta L. McLaughlin
No. C40375
Exp. 3-31-13
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.

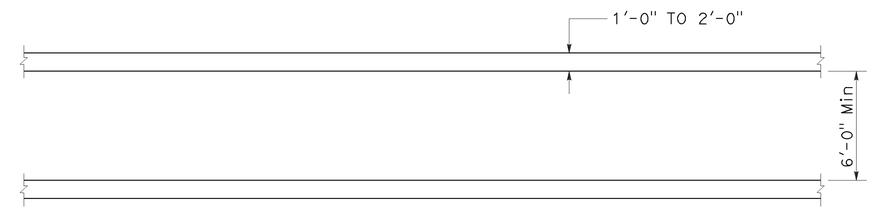
TO ACCOMPANY PLANS DATED 2-11-13



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.

REVISED STANDARD PLAN RSP A24F

2010 REVISED STANDARD PLAN RSP A24F

6-28-12

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
05	SB	246	31.4/34.6	25	25

REGISTERED ELECTRICAL ENGINEER

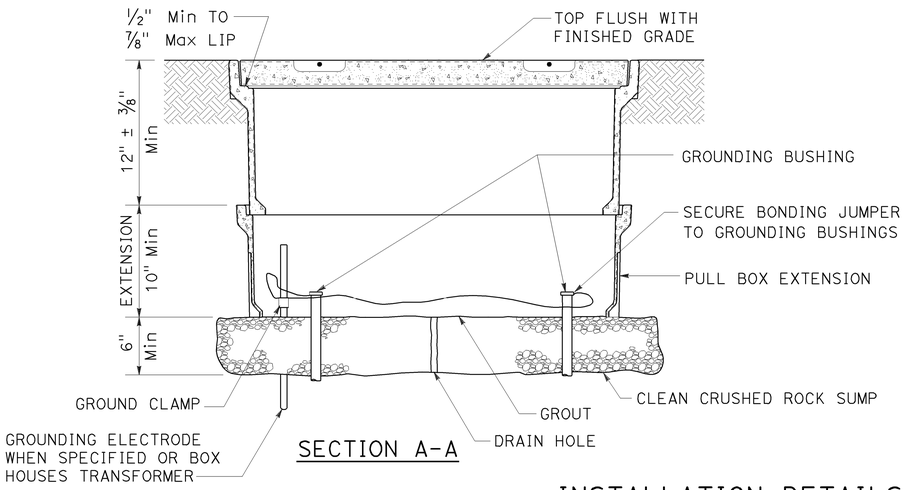
January 20, 2012
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Jeffery G. McRae No. E14512 Exp. 6-30-12 ELECTRICAL STATE OF CALIFORNIA

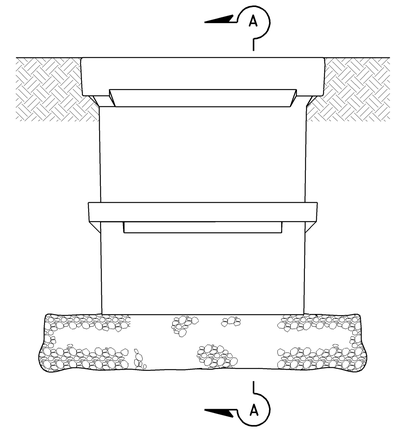
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

TO ACCOMPANY PLANS DATED 2-11-13

2010 REVISED STANDARD PLAN RSP ES-8A



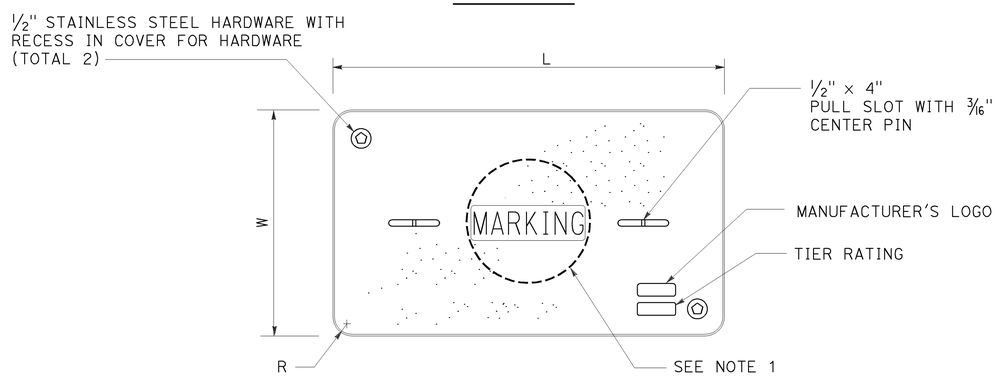
SECTION A-A



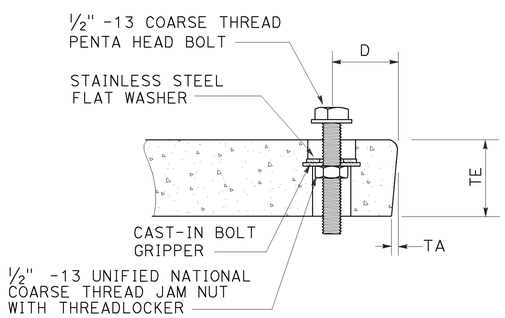
SIDE VIEW

INSTALLATION DETAILS

DETAIL A

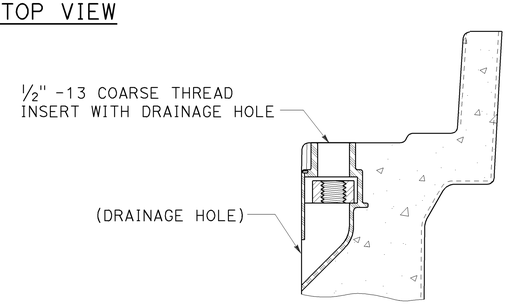


COVER TOP VIEW



TYPICAL COVER CAPTIVE BOLT

OR SIMILAR



TYPICAL THREADED INSERT

OR SIMILAR

DIMENSION TABLE										
PULL BOX	PULL BOX			COVER						
	MINIMUM DEPTH BOX	MINIMUM DEPTH EXTENSION	MAXIMUM WEIGHT	L	W	R	TE	TA	D	MAXIMUM WEIGHT
No. 3 1/2	12"	N/A	40 lb	1' - 3 3/8"	10 1/8"	1 3/8"	2"	1/8"	1 3/4"	30 lb
No. 5	12"	10"	55 lb	1' - 11 1/4"	1' - 1 3/4"	1 3/8"	2"	1/8"	1 3/4"	60 lb
No. 6	12"	10"	70 lb	2' - 6 1/2"	1' - 5 1/2"	1 3/8"	2"	1/8"	2"	85 lb

NOTES ON PULL BOXES:

1. Pull box covers must be marked as follows: "SERVICE" Service circuits between service point and service disconnect; "SPRINKLER-CONTROL" sprinkler control circuits, 50 V or less; "CALTRANS" on all pull boxes, except pull boxes marked "SPRINKLER-CONTROL"; and "TELEPHONE" Telephone service;

   A) No. 3 1/2 pull box.
      1) "SIGNAL" - Traffic signal circuits with or without street or sign lighting circuits.
      2) "ST LIGHTING" - Street or sign lighting circuits where voltage is under 600 V.

   B) No. 5, 6, 9 or 9A pull box.
      1) "TRAFFIC SIGNAL" - Traffic signal circuits with or without street or sign lighting circuits.
      2) "STREET LIGHTING" - Street or sign lighting circuits where voltage is under 600 V.
      3) "STREET LIGHTING-HIGH VOLTAGE" - Street or sign lighting circuits where voltage is above 600 V.
      4) "IRRIGATION" - Circuits to irrigation controller 120 V or more.
      5) "RAMP METER" - Ramp meter circuits.
      6) "COUNT STATION" - Count or speed monitor circuits.
      7) "COMMUNICATIONS" - Communication circuits.
      8) "TOS COMMUNICATIONS" - TOS communication line.
      9) "TOS POWER" - TOS power.
      10) "TDC POWER" - Telephone demarcation cabinet power.
      11) "CCTV" - Closed circuit television circuits.
      12) "TMS" - Traffic monitoring station circuits.
      13) "CMS" - Changeable message sign circuits.
      14) "HAR" - Highway advisory radio circuits.

2. The nominal dimensions of the opening in which the cover sets must be the same as the cover dimensions (L and W) plus 1/8" or greater.

3. Covers and boxes must be interchangeable with California Standard. When interchanged with a standard, the top surfaces must be flush within 1/8". Top outside radius of covers and pull boxes must have a 1/8" radius.

4. Pull box extension may be another pull box as long as the bottom edge of the pull box can fit into the cover opening.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (PULL BOX)

NO SCALE

RSP ES-8A DATED JANUARY 20, 2012 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-8A