

INDEX OF PLANS

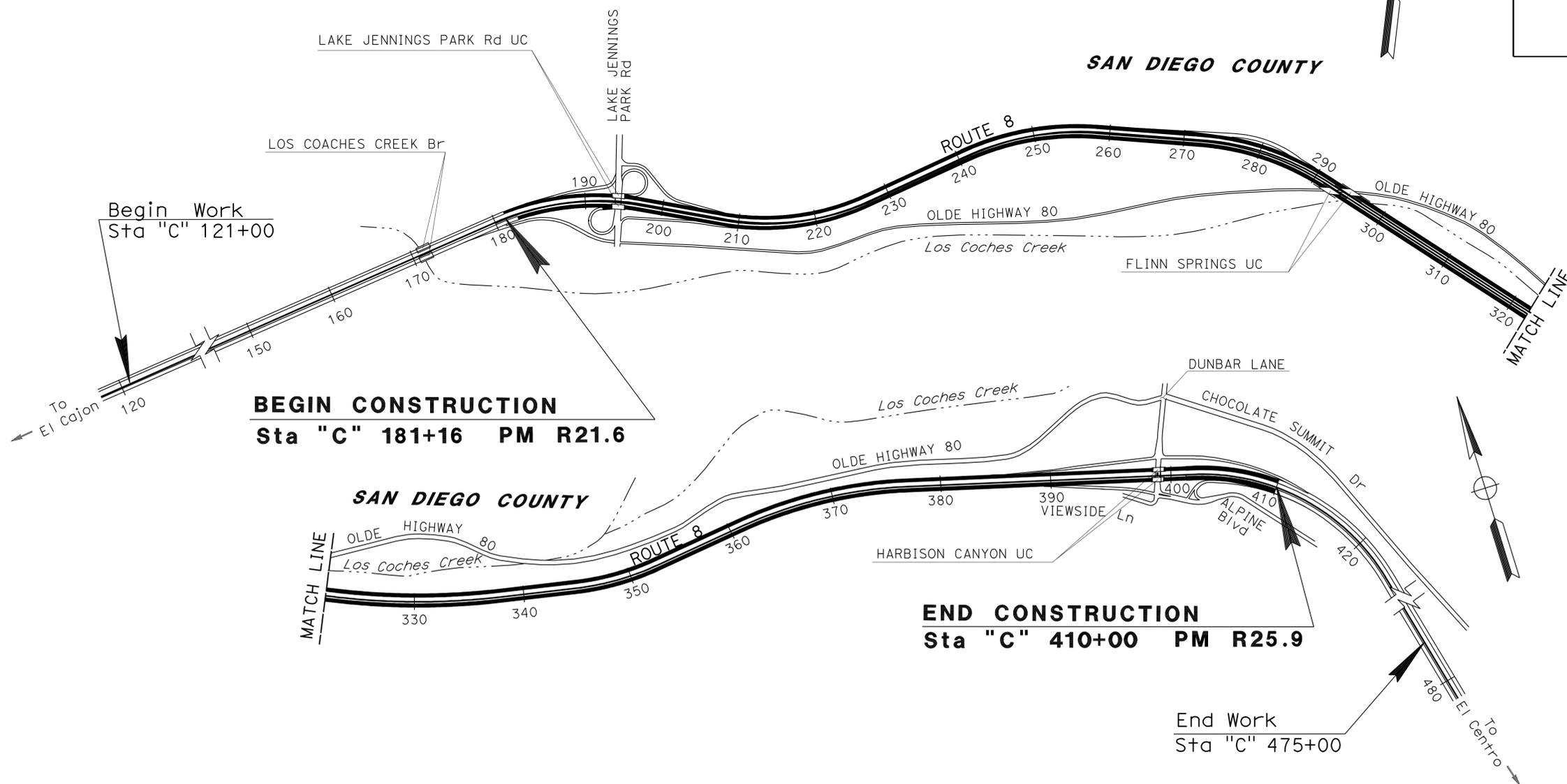
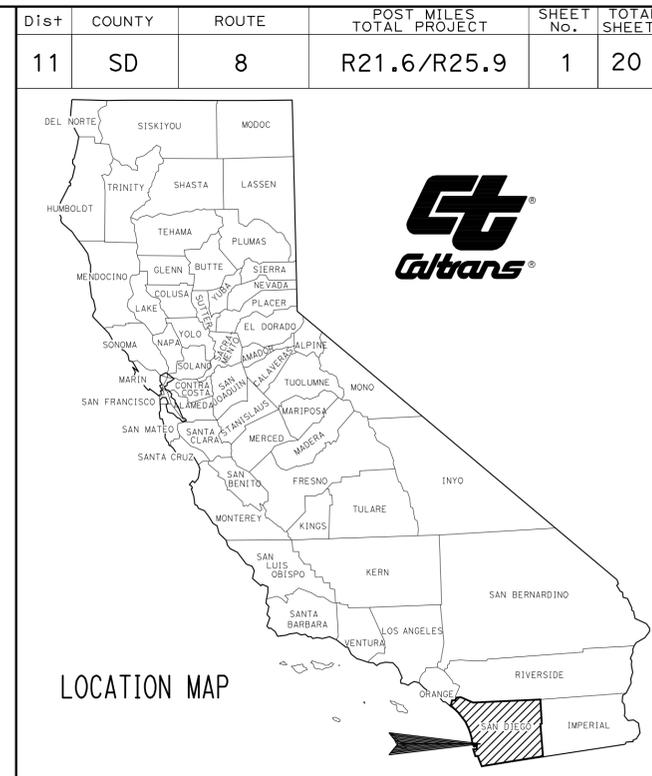
Sheet No.	Description
1	Title and Location Map
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STATE OF CALIFORNIA IM-008-1(308)E
DEPARTMENT OF TRANSPORTATION
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY

IN SAN DIEGO COUNTY NEAR EL CAJON
FROM 0.2 MILE WEST OF LAKE JENNINGS PARK ROAD UNDERCROSSING
TO 0.2 MILE EAST OF HARBISON CANYON UNDERCROSSING

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

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



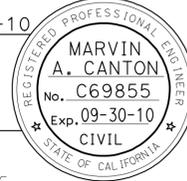
PROJECT MANAGER
BRUCE LAMBERT

DESIGN ENGINEER
KAZIM MAMDANI

ENVIRONMENTALLY SENSITIVE AREA IS 3 FEET FROM EDGE OF PAVEMENT

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

08-05-10
 PROJECT ENGINEER DATE
 REGISTERED CIVIL ENGINEER
 August 16, 2010
 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.	11-236404
PROJECT ID	1100020020

NO SCALE

DATE PLOTTED => 18-AUG-2010 TIME PLOTTED => 1:57:36

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	8	R21.6/R25.9	2	20
			08-05-10		
			REGISTERED CIVIL ENGINEER		
			08-16-10		
			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:

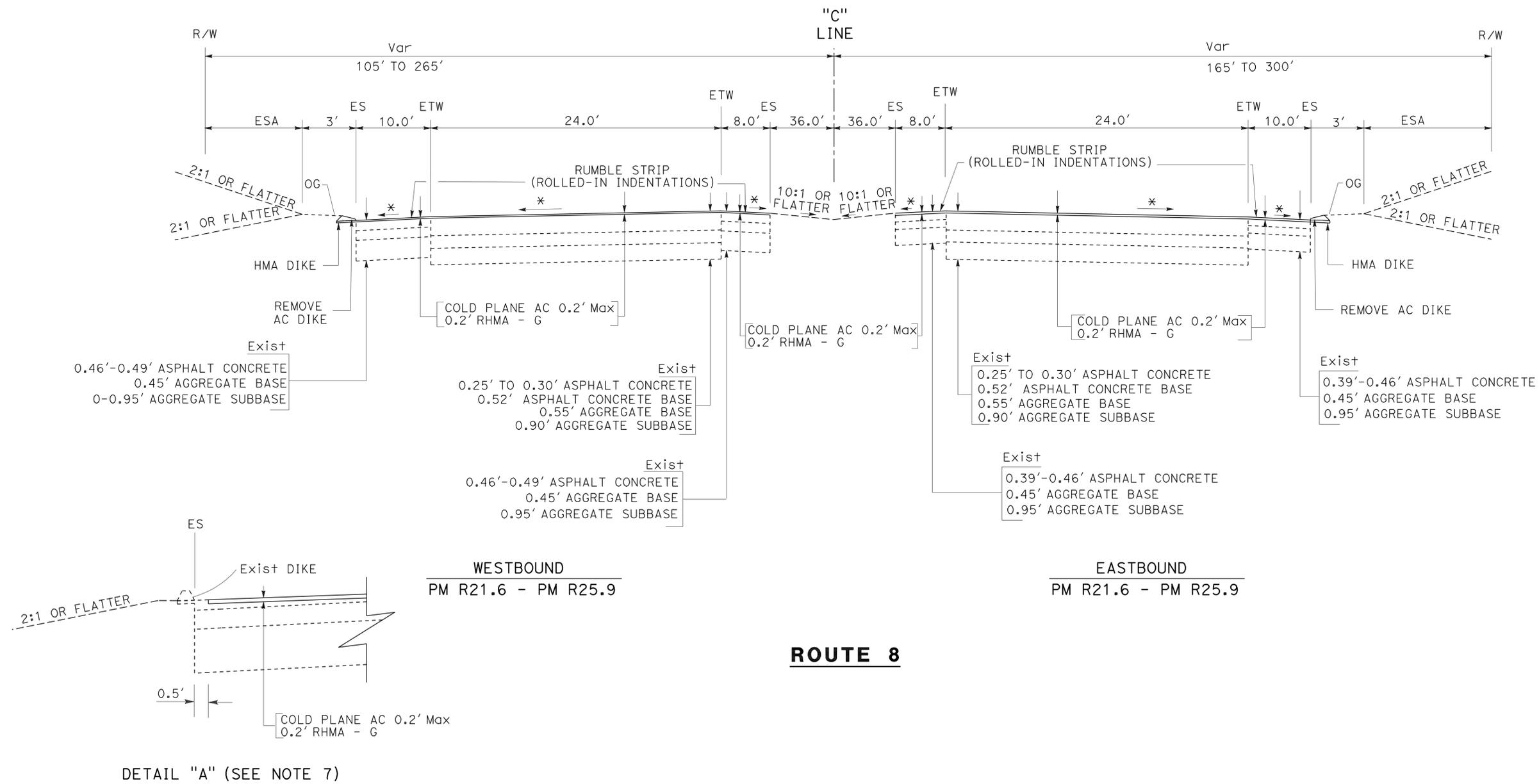
- DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
- EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
- FOG SEAL COAT SHALL BE APPLIED TO ALL HMA SURFACES EXCEPT TRAVELED WAYS.
- FOR LOCATION AND TYPE OF REMOVE AC DIKE/PLACE HMA DIKE, SEE SUMMARY OF QUANTITIES SHEET.
- FOR LOCATION OF COLD PLANE, SEE SUMMARY OF QUANTITIES SHEET.
- * MATCH EXISTING SLOPE.
- SEE DETAIL "A" FOR COLD PLANE LIMITS AT EXISTING DIKE
- LIMIT OF COLD PLANING AND OVERLAY WORK TO REACH END OF GORE AREAS, SEE CONSTRUCTION DETAIL SHEETS.

ABBREVIATIONS:

ESA = ENVIRONMENTALLY SENSITIVE AREA
 RHMA - G = RUBBERIZED HOT MIX ASPHALT (GAP GRADED)

DESIGN DESIGNATION (Rte 8):

ADT(2007)	27,000	D=50.1 %
ADT(2020)	35,800	T=13.6 %
DHV	2,560	V=70 MPH



* MATCH EXISTING

TYPICAL CROSS SECTIONS

NO SCALE

X-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans PROJECT DEVELOPMENT

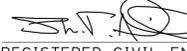
FUNCTIONAL SUPERVISOR
 KAZIM MAMDANI

CALCULATED/DESIGNED BY
 CHECKED BY

AJMAL ZULALI
 MARVIN A. CANTON

REVISED BY
 DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	8	R21.6/R25.9	4	20

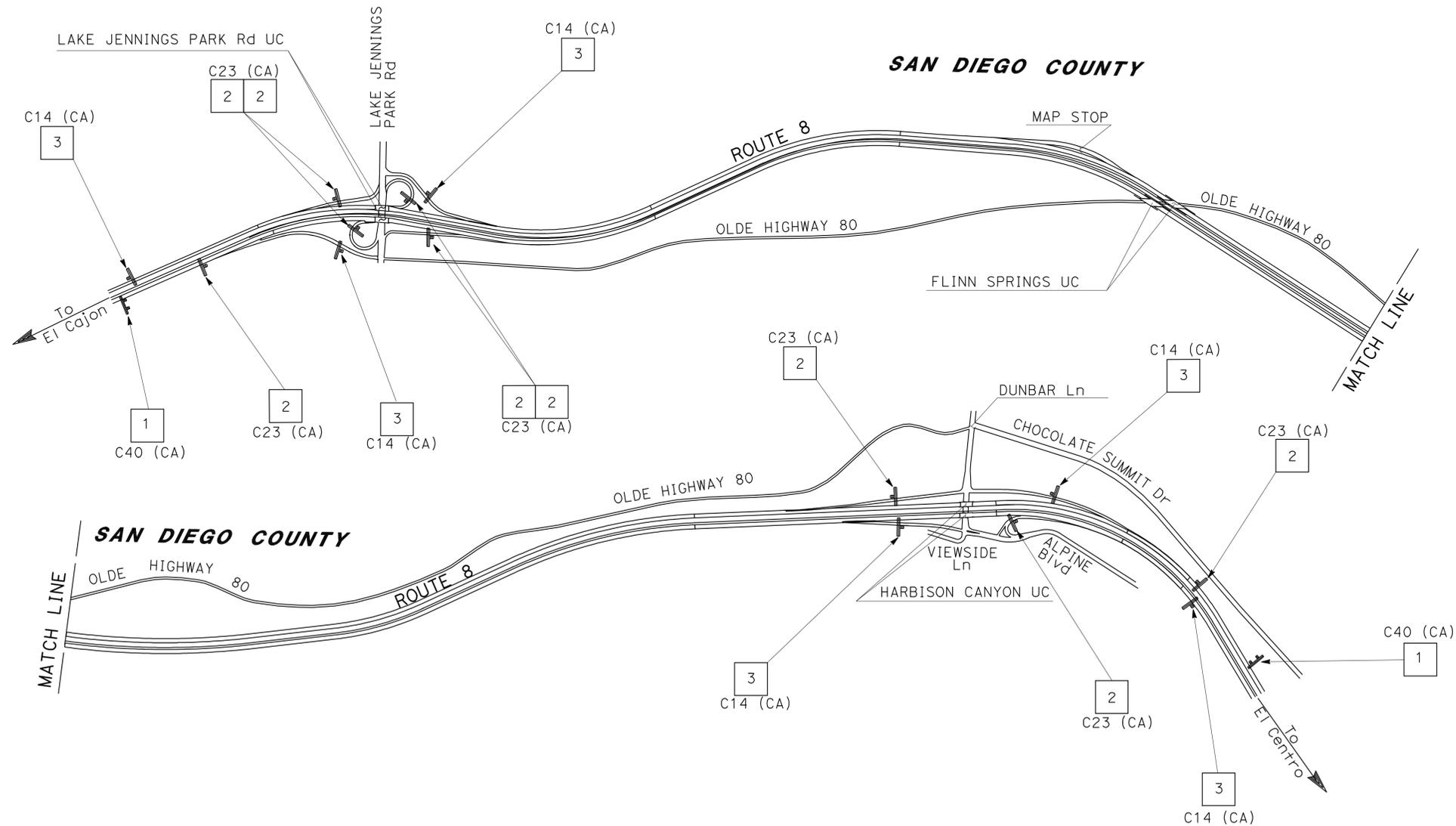
 REGISTERED CIVIL ENGINEER DATE 08-05-10	
08-16-10 PLANS APPROVAL DATE	
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>	

LEGEND

XX = CONSTRUCTION AREA SIGN

NOTES:

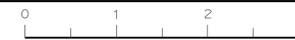
1. EXACT LOCATION OF CONSTRUCTION AREA SIGNS SHALL BE DETERMINED BY THE ENGINEER.
2. FEDERAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SIGN CODES ARE SHOWN UNLESS DESIGNATED BY (CA), INDICATING CALIFORNIA MUTCD.
3. EXISTING UTILITIES ARE NOT SHOWN ON THESE PLAN SHEETS. THE CONTRACTOR SHALL VERIFY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



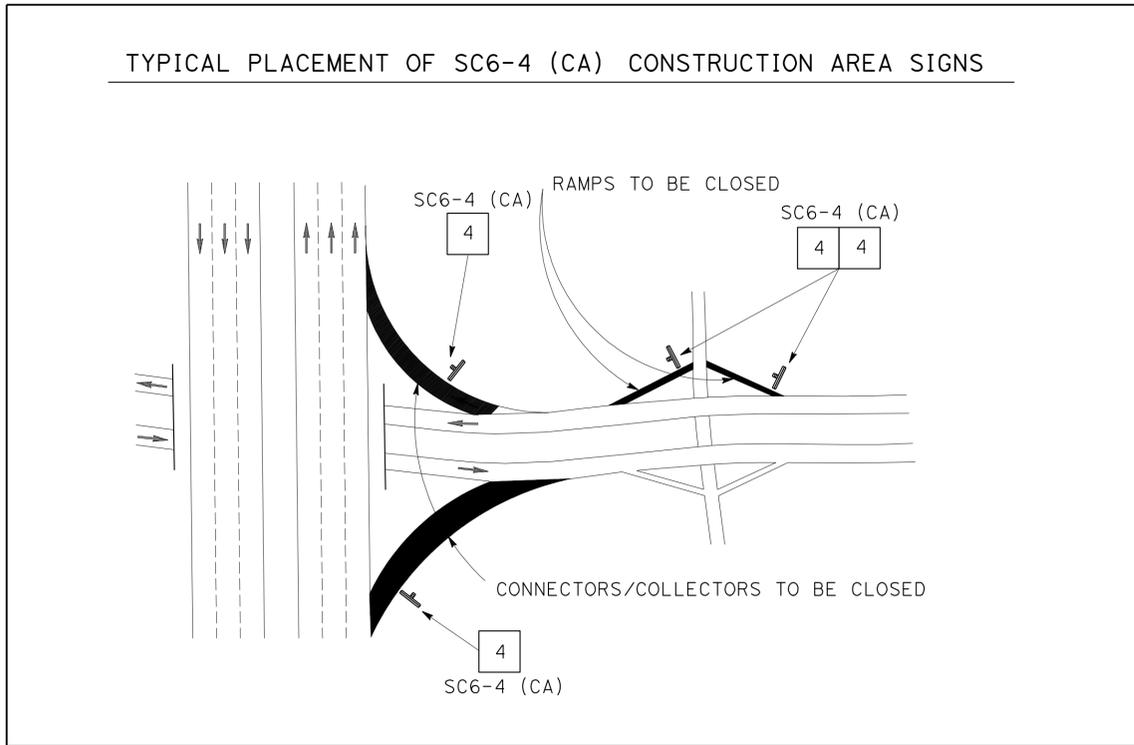
CONSTRUCTION AREA SIGNS
NO SCALE
CS-1

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	DESIGNED BY	REVISOR
Caltrans TRAFFIC DESIGN	CAMILLE ABOUFADEL	SHAHIN T ADIBI	MARY BETH HAYES
	CHECKED BY	DATE	REVISION



TYPICAL PLACEMENT OF SC6-4 (CA) CONSTRUCTION AREA SIGNS

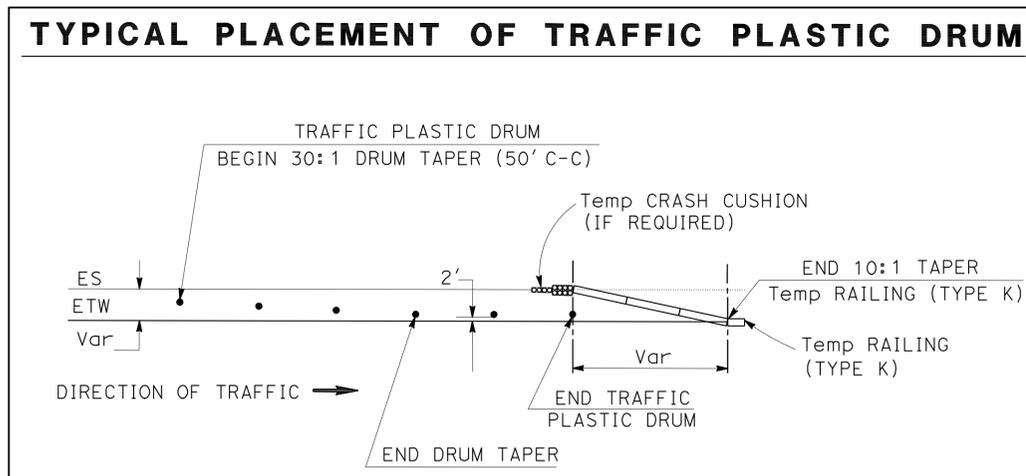


CONSTRUCTION AREA SIGNS

SIGN No.	CODE	PANEL SIZE (In)	No. OF POST AND SIZE (In)	No. OF SIGNS
1	C40 (CA)	72 X 36	2-4 X 6 (S)	2
2	C23 (CA)	48 X 48	1-4 X 6 (S)	8
3	C14 (CA)	48 X 24	1-4 X 4 (S)	6
4	SC6-4 (CA)	48 X 60	PORTABLE	10
TOTAL				26

(S) DENOTES STATIONARY MOUNTED SIGN

TYPICAL PLACEMENT OF TRAFFIC PLASTIC DRUM



CONSTRUCTION AREA SIGNS
NO SCALE
CS-2

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	8	R21.6/R25.9	6	20

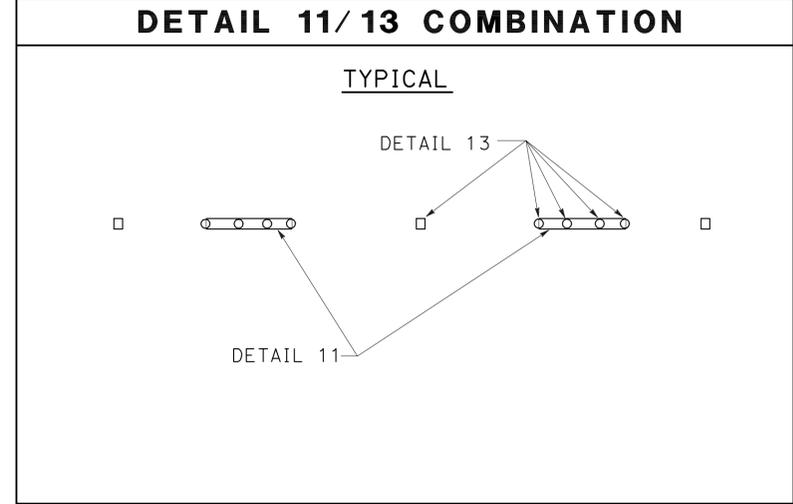
08-05-10
REGISTERED CIVIL ENGINEER DATE

08-16-10
PLANS APPROVAL DATE

SHAHIN T. ADIBI
No. 54839
Exp. 06/30/12
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.

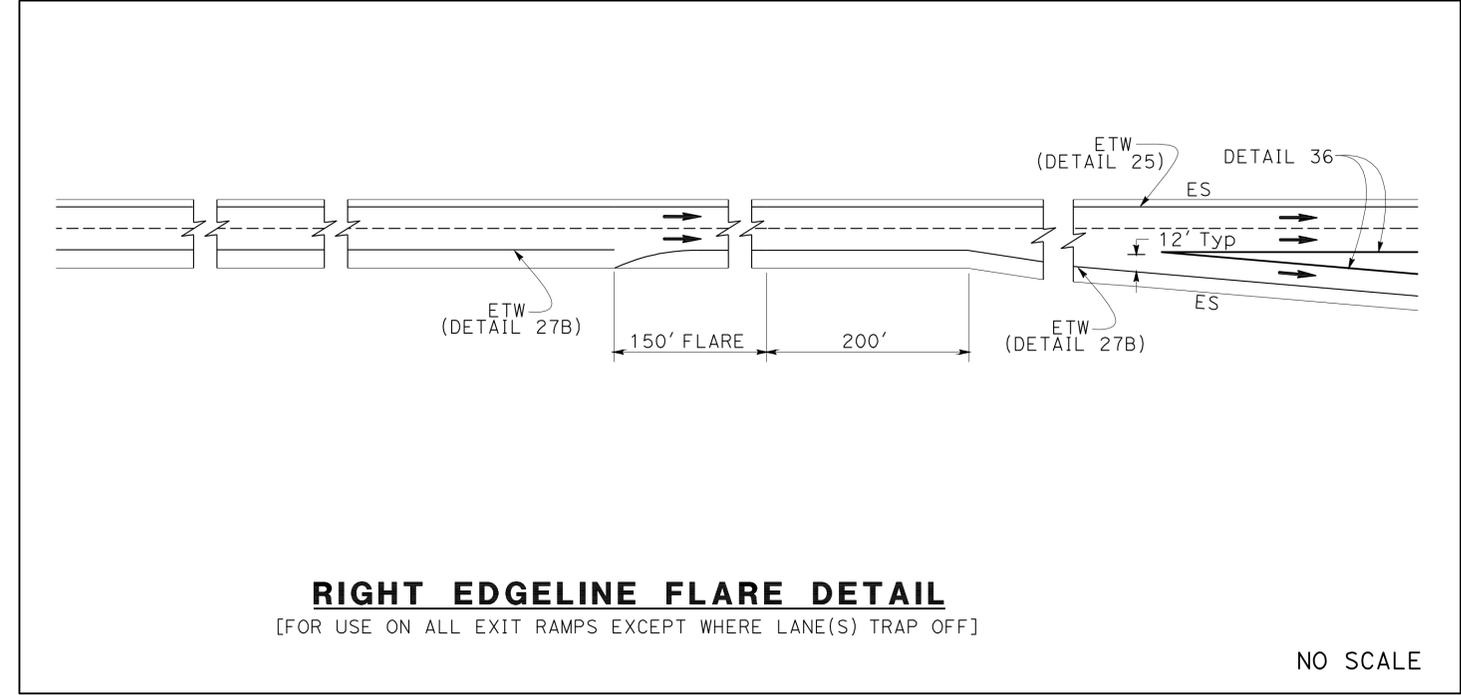
ROUTE	LOCATION	DETAIL No.	PAVEMENT MARKER SUMMARY			TRAFFIC STRIPE SUMMARY		
			NON-REFLECTIVE (EA)	RETROREFLECTIVE (EA)		PAINT	THERMOPLASTIC (LF)	
			TYPE A WHITE	TYPE G CLEAR	TYPE H YELLOW	LF 2-COAT	4 In BROKEN	8 In
8	WESTBOUND	8						
		11/13	1,872	469		22,450		
		25			469	22,450		
		27B				21,745		
		36			29			660
		36A		31			730	
8	EASTBOUND	8						330
		11/13	1,888	473		22,650		
		25			473	22,650		
		27B				21,860		
		36			12			260
		36A		22			515	
SUB-TOTAL			3,760	1,036	942	133,805	695	2,165
TOTAL			3,760	1,978		133,805	695	2,165



REMOVE PAVEMENT MARKER (N)

ROUTE	LOCATION	TYPE (EA)		
		A	G	H
8	WESTBOUND AND EASTBOUND	3,760	1,036	942
TOTAL		5,738		

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



PAVEMENT DELINEATION DETAILS AND QUANTITIES

NO SCALE

PDD-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - **Caltrans** - TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: CAMILLE ABOUFADEL

REVISOR: MARY BETH HAYES, SHAHIN ADIBI

DESIGNER: CALICULATED, DESIGNED BY: CHECKED BY:

LAST REVISION | DATE PLOTTED => 18-AUG-2010 08-11-10 | TIME PLOTTED => 15:36

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	8	R21.6/R25.9	8	20

08-05-10
REGISTERED CIVIL ENGINEER DATE

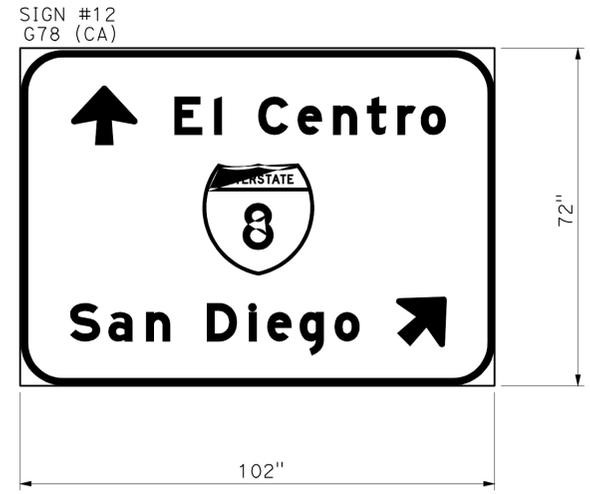
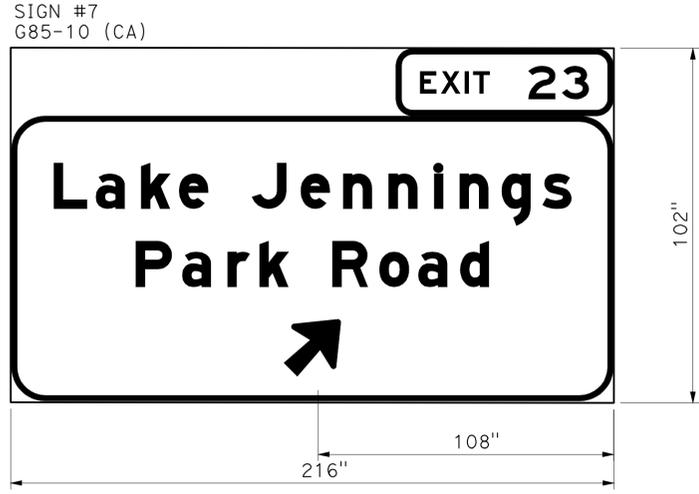
08-16-10
PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
SHAHIN T. ADIBI
No. 54839
Exp. 06/30/12
CIVIL
STATE OF CALIFORNIA

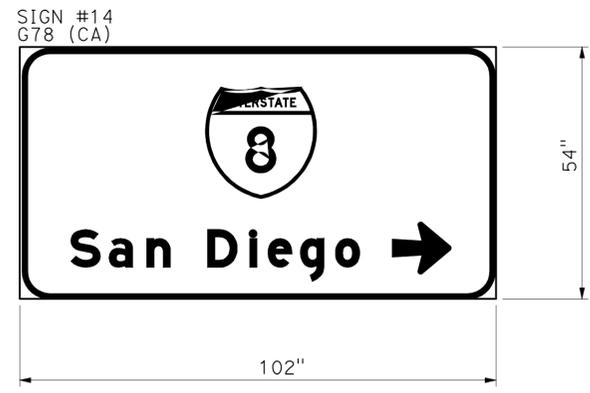
LEGEND:

U/L = UPPER/LOWER CASE LETTERING
Caps = CAPITAL LETTERING
Num = NUMERAL SIZE
Deg = DEGREE



LEGEND				ARROW	
LINE No.	U/L	Caps	Num	Deg	LENGTH
1		8E	12E		
2,3	16E(M)/12E(M)				
4				45	25

LEGEND				ARROW	
LINE No.	U/L	Caps	Num	Deg	LENGTH
1	8E(M)/6E(M)			90	13
2			10D		
3	8E(M)/6E(M)			45	13



LEGEND				ARROW	
LINE No.	U/L	Caps	Num	Deg	LENGTH
1			10D		
2	8E(M)/6E(M)			360	13

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN
 FUNCTIONAL SUPERVISOR: CAMILLE ABOUFADEL
 CALCULATED/DESIGNED BY: MARY BETH HAYES
 CHECKED BY: SHAHIN ADIBI
 REVISED BY: MARY BETH HAYES
 DATE REVISED: SHAHIN ADIBI

**SIGN DETAILS
CONTRACTOR FURNISHED
SIGN PANEL**

NO SCALE

SD-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	8	R21.6/25.9	9	20

08-05-10
 REGISTERED CIVIL ENGINEER DATE
 08-16-10
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 SHAHIN
 T. ADIBI
 No. 54839
 Exp. 06/30/12
 CIVIL
 STATE OF CALIFORNIA

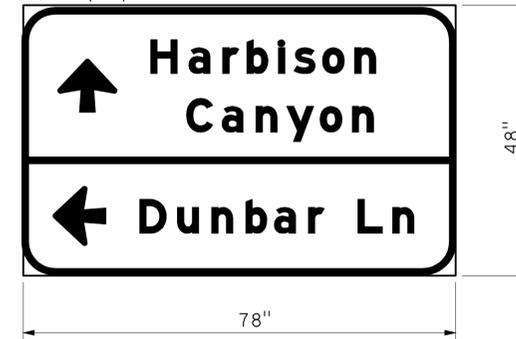
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SIGN #17
G23 (CA)



LEGEND				ARROW	
LINE No.	U/L	Caps	Num	Deg	LENGTH
1,2,3	13.3E(M),10E(M)				

SIGN #19
G8-7 (CA)



LEGEND				ARROW	
LINE No.	U/L	Caps	Num	Deg	LENGTH
1,2	6E(M)/4.5E(M)			90	10
3	6E(M)/4.5E(M)			180	10

SIGN #20
G78 (CA)



LEGEND				ARROW	
LINE No.	U/L	Caps	Num	Deg	LENGTH
1			8D		
2	6E(M)/4.5E(M)			180	10

BROWN (RETRO-REFLECTIVE TYPE III)
WITH WHITE REFLECTIVE LETTERING (TYPE III)

SIGN #21
SG34 (CA)



LEGEND				ARROW	
LINE No.	U/L	Caps	Num	Deg	LENGTH
1,2		6D			

**SIGN DETAILS
CONTRACTOR FURNISHED
SIGN PANEL**

NO SCALE

SD-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - TRAFFIC DESIGN

Caltrans

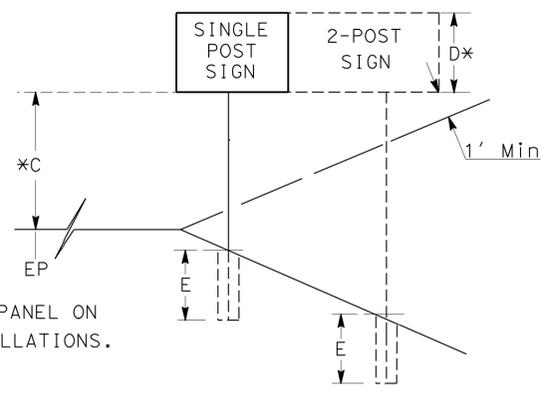
FUNCTIONAL SUPERVISOR: CAMILLE ABOUFADEL

REVISOR: MARY BETH HAYES, SHAHIN ADIBI

REVISIONS: REVISED BY, DATE REVISED

CALCULATED/DESIGNED BY, CHECKED BY

- NOTES:**
- FEDERAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SIGN CODES ARE SHOWN UNLESS DESIGNATED BY (CA), INDICATING CALIFORNIA MUTCD.
 - EXACT LOCATION OF SIGNS AND POSTS TO BE DETERMINED BY THE ENGINEER.
 - MINIMUM POST LENGTHS WERE CALCULATED ASSUMING LEVEL GROUND SURFACE FROM THE EP. ENSURE "C" DIMENSIONS ARE MET. POST LENGTHS MAY VARY DUE TO SITE CONDITIONS.
 - REFER TO "FURNISH ROADSIDE SIGN PANEL" CHART FOR FURTHER INFORMATION.



ROADSIDE SIGN QUANTITIES

SIGN No.	CODE	SHEET No.	PANEL SIZE		D	C	E	Min POST LENGTH	POST SIZE				ROADSIDE SIGN		REMOVE ROADSIDE SIGN	INSTALL ROADSIDE SIGN ON EXISTING POST	INSTALL SIGN (STRAP & SADDLE BRACKET METHOD)	REMARKS
			Horiz	Vert					4X4	4X6	6X6	6X8	ONE POST	TWO POST				
			INCHES X INCHES		Ft	Ft	Ft	Ft	INCHES X INCHES	EA	EA	EA	EA	EA	EA	EA		
4	G95B (CA)	S-1												1				
5	G95B (CA)		108 X 72		6.0	7.0	5.0	18.0			X			1				
6	G85 (CA)													1				
7	G85-10 (CA)		216 X 102		8.5	7.0	6.0	21.5				X		1				
8	RM020		24 X 24															
	G37 (CA)		21 X 15															
	D4-2L (CA)		24 X 30															
	R5-10c		24 X 12											1			BACK TO BACK	
9	W4-1R		48 X 48											1				
10	G50 (CA)		26 X 12													1		
11	G78 (CA)													1				
12	G78 (CA)		102 X 72		6.0	7.0	5.0	18.0			X			1				
13	G78 (CA)													1				
14	G78 (CA)		102 X 54		4.5	7.0	5.0	16.5			X			1				
15	G95B (CA)													1				
16	G95B (CA)		108 X 72		6.0	7.0	5.0	18.0			X			1				
17	G23 (CA)		174 X 90												1			
18	G8 (CA)													1				
19	G8-7 (CA)		78 X 48		4.0	7.0	4.5	15.5			X			1				
20	G78 (CA)		72 X 42												1			
21	SG34 (CA)		72 X 30															
	RM020		24 X 24															
	R5-10c		24 X 12											1			BACK TO BACK	
TOTAL												0	6	6	5	1		

(N) NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY-SEE ELECTRICAL PLANS FOR FURTHER INFORMATION.

SIGN QUANTITIES
SQ-1

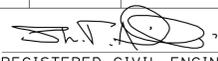
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: CAMILLE ABOUFADEL

DESIGNED BY: MARY BETH HAYES
CHECKED BY: SHAHIN ADIBI

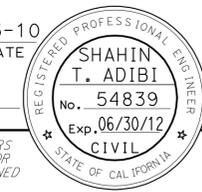
REVISOR: MARY BETH HAYES
DATE: 7/2/2010

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	8	R21.6/R25.9	11	20

 08-05-10
 REGISTERED CIVIL ENGINEER DATE

08-16-10
 PLANS APPROVAL DATE

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 OR AGENTS SHALL NOT BE RESPONSIBLE FOR
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NOTES:

1. GREEN-Grn, WHITE-Wh+, BLACK-Blk, BLUE-Blu, YELLOW-Ylw, BROWN-Brn, RED-Red, ORANGE-Org, CREAM-Crm.
2. REFER TO "ROADSIDE SIGN QUANTITIES" CHART FOR FURTHER INFORMATION.
3. FEDERAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SIGN CODES ARE SHOWN UNLESS DESIGNATED BY (CA), INDICATING CALIFORNIA MUTCD.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN
 FUNCTIONAL SUPERVISOR: CAMILLE ABOUFADEL
 CALCULATED/DESIGNED BY: MARY BETH HAYES
 CHECKED BY: SHAHIN ADIBI
 REVISED BY: DATE
 REVISIONS:

FURNISH ROADSIDE SIGN PANEL

SIGN No.	CODE	PANEL SIZE		BACKGROUND		LEGEND			SIGN PANEL							
		Horiz	Vert	SHEETING COLOR	RETRO-REFLECTIVE ASTM TYPE	SHEETING COLOR	REFLECTIVE ASTM TYPE	BLACK (NON-REFLECTIVE)	SINGLE SHEET ALUMINUM (SQFT)				LAMINATED (SQFT)		PROTECTIVE OVERLAY	
									UNFRAMED	FRAMED	TYPE B		TYPE H	PREMIUM FILM		
		INCHES	INCHES	INCHES	INCHES	INCHES	INCHES	INCHES	INCHES	INCHES	INCHES	INCHES				
5	G95B (CA)	108	X	72	Grn	IV	Wh+	IV								X
7	G85-10 (CA)	216	X	102	Grn	IV	Wh+	IV						153.00		X
8	RM020	24	X	24	Blu	III	Wh+	III	4.00							X
	G37 (CA)	21	X	15	Blu	III	Wh+	III	2.25							X
	D4-2L (CA)	24	X	30	Grn	IV	Wh+	IV	5.00							X
	R5-10c	24	X	12	Wh+	IV	Blk	IV	X	2.00						X
9	W4-1R	48	X	48	Ylw	IV	Blk	IV	X	16.00						X
10	G50 (CA)	26	X	12	Blu	III	Wh+	III	2.16							X
12	G78 (CA)	102	X	72	Grn	IV	Wh+	IV				51.00				X
14	G78 (CA)	102	X	54	Grn	IV	Wh+	IV				38.25				X
16	G95B (CA)	108	X	72	Grn	IV	Wh+	IV				51.00				X
17	G23 (CA)	174	X	90	Grn	IV	Wh+	IV					112.50			X
19	G8-7 (CA)	78	X	48	Grn	IV	Wh+	IV				26.00				X
20	G78 (CA)	72	X	42	Grn	IV	Wh+	IV				21.00				X
21	SG34 (CA)	72	X	30	Brn	III	Wh+	III		15.00						X
	RM020	24	X	24	Blu	III	Wh+	III	4.00							X
	R5-10c	24	X	12	Wh+	IV	Blk	IV	X	2.00						X
TOTAL									21.41	16.00	15.00	241.25	112.50	153.00		

SIGN QUANTITIES
SQ-2

LAST REVISION: DATE PLOTTED => 18-AUG-2010 15:37
 08-11-10 TIME PLOTTED => 15:37

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	8	R21.6/R25.9	12	20

08-05-10
 REGISTERED CIVIL ENGINEER DATE
 08-16-10
 PLANS APPROVAL DATE

MARVIN A. CANTON
 No. C69855
 Exp. 09-30-10
 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

DIRECTION	LOCATION		LENGTH LF (N)	TRAVELED WAY WIDTH LF (N)		SHOULDER WIDTH LF (N)				COLD PLANE AC PAVEMENT SQYD	RUBBERIZED HOT MIX ASPHALT (GAP GRADED) TON	TACK COAT TON	ASPHALTIC EMULSION (FOG SEAL COAT) TON	REMARKS
	STATION			Beg	END	INSIDE		OUTSIDE						
	Beg	END				Beg	END	Beg	END					
EB Rte 8	184+00	192+63	863	24	24	5	5	10	10	3,738	498.47	0.748	0.431	
	192+63	193+90	127	40	34	5	5	26	4	803	107.00	0.161	0.085	
	193+90	195+34												LAKE JENNINGS PARK ROAD UC
	195+34	202+00	666	36	24	5	5	10	10	3,330	444.00	0.666	0.333	
	202+00	210+70	870	36	24	5	5	33	10	5,462	728.22	1.092	0.769	
	210+70	290+30	7,960	24	24	5	5	10	10	34,493	4,599.11	6.899	3.980	
	290+30	292+70												FLINN SPRINGS ROAD UC
	292+70	382+50	8,980	24	24	5	5	10	10	38,913	5,188.44	7.783	4.490	
	382+50	386+97	447	24	36	5	5	10	33	2,806	374.16	0.561	0.395	
	386+97	394+21	724	24	24	5	5	10	10	3,137	418.31	0.627	0.362	
394+21	398+31	410	24	24	5	5	10	10	1,777	236.89	0.355	0.205		
398+31	399+61												HARBISON CANYON ROAD UC	
↓	399+61	410+00	1,039	41	24	5	5	33	10	6,811	908.16	1.362	0.918	
WB Rte 8	182+00	190+25	825	44	36	10	5	45	10	6,875	916.67	1.375	0.963	
	190+25	193+90	365	24	24	5	10	10	10	1,683	224.41	0.337	0.213	
	193+90	195+34												LAKE JENNINGS PARK ROAD UC
	195+34	195+43	9	38	24	5	5	25	5	51	6.80	0.010	0.006	
	195+43	203+20	777	24	24	5	5	10	10	3,367	448.93	0.673	0.389	
	203+20	208+00	480	24	36	5	5	10	33	3,013	401.78	0.603	0.424	
	208+00	290+80	8,280	24	24	5	5	10	10	35,880	4,784.00	7.176	4.140	
	290+80	293+00												FLINN SPRINGS ROAD UC
	293+00	380+37	8,737	24	24	5	5	10	10	37,860	5,048.04	7.572	4.369	
	380+37	390+98	1,061	36	24	5	5	31	10	6,543	872.38	1.309	0.902	
390+98	398+39	741	24	24	5	5	10	10	3,211	428.13	0.642	0.371		
398+39	399+71												HARBISON CANYON ROAD UC	
↓	399+71	406+00	629	24	24	5	5	13	10	2,831	377.40	0.566	0.346	
↓	406+00	410+00	400	24	36	5	5	10	33	2,511	334.81	0.502	0.353	
TOTAL										205,096	27,346.12	41.02	24.44	

HMA DIKE

DIRECTION	LOCATION		REMOVE AC DIKE		PLACE HMA DIKE		MINOR HMA TON
	STATION		TYPE	LENGTH LF	TYPE	LENGTH LF	
	BEGIN	END					
EB Rte 8	189+00	192+60	E	360	E	360	9.36
	193+40	193+90	F	50	E	50	0.66
	195+34	202+00	E	666	E	666	17.32
	202+00	206+30	D	430	D	430	25.20
	224+00	235+00	F	1,100	E	1,100	14.52
	235+00	235+50	D	50	D	50	2.93
	235+50	250+00	F	1,450	E	1,450	19.14
	261+80	290+30	E	2,850	E	2,850	74.10
	309+50	317+20	E	770	E	770	20.02
	323+00	336+70	E	1,370	E	1,370	35.62
↓	330+00	352+00	E	2,200	E	2,200	57.20
↓	398+00	398+30	D	30	D	30	1.76
WB Rte 8	211+00	245+00	E	3,400	E	3,400	88.40
	254+00	258+00	E	400	E	400	10.40
	278+00	290+80	E	1,280	E	1,280	33.28
	293+00	302+00	E	900	E	900	23.40
	302+00	320+00	E	1,800	E	1,800	46.80
	323+25	341+20	E	1,795	E	1,795	46.67
	↓	363+00	383+00	E	2,000	E	2,000
TOTAL				22,901		22,901	578.78

SHOULDER RUMBLE STRIP (HMA, ROLLED-IN INDENTATIONS)

	LOCATION		INSIDE/OUTSIDE SHOULDER LENGTH (LF) (N)	STATION
	FROM Sta	TO Sta		
	EB "C"	184+00	193+30	1,860
EB "C"	195+34	290+30	18,992	189.92
EB "C"	292+70	398+31	21,122	211.22
EB "C"	399+61	413+00	2,078	20.78
WB "C"	182+00	193+30	2,260	22.60
WB "C"	195+34	290+80	19,092	190.92
WB "C"	293+00	398+39	21,078	210.78
WB "C"	399+71	410+00	2,058	20.58
TOTAL				885.40

MILE POST MARKER

ROUTE	POST MILE	EA
8 WB	R22.0	1
8 EB	R22.0	1
TOTAL		7

SUMMARY OF QUANTITIES

Q-1

(N) NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	8	R21.6/R25.9	13	20

Mahendra R. Nirmal 08-05-10
 REGISTERED ELECTRICAL ENGINEER DATE
 08-16-10
 PLANS APPROVAL DATE

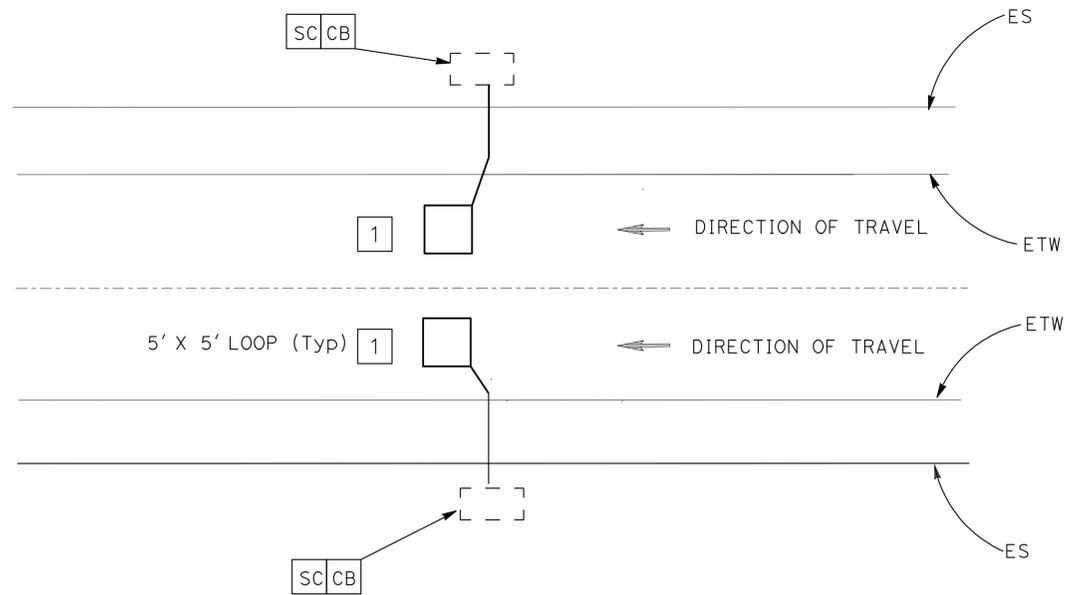
REGISTERED PROFESSIONAL ENGINEER
 MAHENDRA NIRMAL
 No. E10689
 Exp. 06-30-11
 ELECTRICAL
 STATE OF CALIFORNIA

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INDUCTIVE LOOP DETECTOR									
ROUTE	PM	EXISTING FACILITIES	LOCATION	DIRECTIONS	1 LOCATION AND QUANTITY OF LOOP DETECTORS (N)			INDUCTIVE LOOP DETECTOR (EA)	REMARKS
					MAIN LANES				
					#1	#2			
8	23.64	COUNT STATION	FLINN SPRINGS ROAD	EB	1-L+	1-R+		2	SEE DETAIL 'A'
8	23.64	COUNT STATION	FLINN SPRINGS ROAD	WB	1-L+	1-R+		2	SEE DETAIL 'A'
TOTAL								4	

NUMBER OF LOOPS
 1-R+
 PB LOCATED OF RIGHT SIDE (R+) OR LEFT SIDE (L+) OF FREEWAY LANE, IN EAST BOUND DIRECTION OF TRAVEL

(N)=NOT A PAY ITEM, INFORMATION ONLY.



DETAIL 'A'
TYPICAL

NOTE:

1 - AB EXISTING LOOPS.

INDUCTIVE LOOP DETECTOR
NO SCALE
E-1

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

ELECTROLIERS

STANDARD TYPES	Symbol	Description
15, 15D		High mast light pole
15 STRUCTURE		Double Arm lighting standard
21, 21D STRUCTURE		Existing electrolier
30		Electrolier foundation (Future installation)
31		
32		
35		
36-20A		

NOTES:

- Luminaires shall be 310 W HPS when installed on Type 21, 21D, 30, 31, 32, 35 and 36-20A Standards, unless otherwise specified. Luminaires shall be 200 W HPS when installed on other type standards or poles, unless otherwise specified.
- Luminaires shall be the cutoff type, ANSI Type III medium cutoff lighting distribution, unless otherwise specified.
- Variations noted adjacent to symbol on project plans.

- Electrolier (see project notes or project plans)
- Luminaire on wood pole

STANDARD NOTES:

- AB** Abandon. If applied to conduit, remove conductors.
- BC** Install pull box in existing conduit run.
- BP** Pedestrian barricade, type as indicated on plan.
- CB** Install conduit into existing pull box.
- CC** Connect new and existing conduit. Remove existing conductors and install conductors as indicated.
- CF** Conduit to remain for future use. Remove conductors. Install pull wire or rope.
- DH** Detector handhole.
- FA** Foundation to be abandoned.
- IS** Install sign on signal mast arm.
- NS** No slip base on standard.
- PEC** Photoelectric control.
- PEU** Photoelectric unit.
- RC** Equipment or material to be removed and become the property of the Contractor.
- RE** Remove electrolier, fuses and ballast. Tape ends of conductors.
- RL** Relocate equipment.
- RR** Remove and reuse equipment.
- RS** Remove and salvage equipment.
- SC** Splice new to existing conductors.
- SD** Service disconnect.
- SF** Standard to remain for future use. Remove luminaire, pole conductors, fuses and ballast.
- TSP** Telephone service point.

ABBREVIATIONS AND EQUIPMENT DESIGNATIONS

PROPOSED EXISTING

PROPOSED	EXISTING	Description
BBS	bbs	Battery backup system
BC	bc	Bolt circle
C	C	Conduit
CCTV	cctv	Closed circuit television
CKT	ckt	Circuit
CMS	cms	Changeable message sign
DLC	dlc	Loop detector lead-in cable
EMS	ems	Extinguishable message sign
EVC	evc	Emergency vehicle cable
EVD	evd	Emergency vehicle detector
FB	fb	Flashing beacon
FBCA	fbca	Flashing beacon control assembly
FBS	fbs	Flashing beacon with slip base
FO	fo	Fiber optic
G	G	Ground (Equipment Grounding Conductor)
GFCI	GFCI	Ground fault circuit interrupt
HAR	har	Highway advisory radio
HEX	hex	Hexagonal
HPS	hps	High pressure sodium
IISNS	iisns	Internally illuminated street name sign
ISL	isl	Induction sign lighting
LED	led	Light emitting diode
LMA	lma	Luminaire mast arm
LPS	lps	Low pressure sodium
LTG	ltg	Lighting
LUM	lum	Luminaire
MAT	mat	Mast arm mounting vehicle signal faces, top attachment
MAS	mas	Mast arm mounting vehicle signal faces, side attachment
MAS-4A	mas-4A	Mast arm mounting vehicle signal faces, side attachment - 4 signal section
MAS-4B	mas-4B	Mast arm mounting vehicle signal faces, side attachment - 4 signal section
MAS-4C	mas-4C	Mast arm mounting vehicle signal faces, side attachment - 4 signal section
MAS-5A	mas-5A	Mast arm mounting vehicle signal faces, side attachment - 5 signal section
MAS-5B	mas-5B	Mast arm mounting vehicle signal faces, side attachment - 5 signal section
MC	mc	Mercury contactor
M/M	m/m	Multiple to multiple transformer
MT	mt	Conduit with pull wire or rope only
MTG	mtg	Mounting
N	N	Mercury vapor lighting fixture
NC	NC	Neutral (Grounded Conductor)
NO	NO	Normally closed
PB	pb	Normally open
PEC	pec	Pull box
PEC	pec	Photoelectric control (Type I, II, III, IV or V as shown)
PED	ped	Pedestrian
PEU	peu	Photoelectric unit
PPB	ppb	Pedestrian push button
RL	rl	Relocated equipment
RM	rm	Ramp metering
SB	sb	Slip base
SIC	sic	Signal interconnect cable
SIG	sig	Signal
SMA	sma	Signal mast arm
SNS	sns	Street name sign
SP	sp	Service point
TDC	tdc	Telephone demarcation cabinet
TMS	tms	Traffic monitoring station
TOS	tos	Traffic Operations System
VEH	veh	Vehicle
XFMR	xfmr	Transformer
COMM	comm	Communication
RWIS	rwis	Roadway weather information system

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	8	R21.6/R25.9	14	20

Jeffery G. McRae
REGISTERED ELECTRICAL ENGINEER

October 5, 2007
PLANS APPROVAL DATE

Jeffery G. McRae
No. E14512
Exp. 6-30-08
ELECTRICAL
STATE OF CALIFORNIA

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To accompany plans dated 08-16-10

SOFFIT AND WALL MOUNTED LUMINAIRES

- Pendant, 70 W HPS unless otherwise specified.
- Flush, 70 W HPS unless otherwise specified.
- Wall surface, 70 W HPS unless otherwise specified.
- Existing soffit or wall luminaire to remain unmodified.
- Existing soffit or wall luminaire to be modified as specified.

NOTE:

Arrow indicates "street side" of luminaire.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (SYMBOLS AND ABBREVIATIONS)

NO SCALE

RSP ES-1A DATED OCTOBER 5, 2007 SUPERSEDES STANDARD PLAN ES-1A DATED MAY 1, 2006 - PAGE 400 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-1A

2006 REVISED STANDARD PLAN RSP ES-1A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	8	R21.6/R25.9	15	20

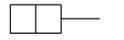
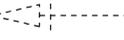
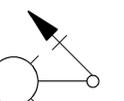
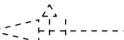
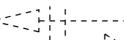
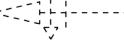
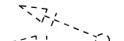
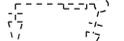
Jeffrey G. McRae
 REGISTERED ELECTRICAL ENGINEER
 October 5, 2007
 PLANS APPROVAL DATE
 Jeffrey G. McRae
 No. E14512
 Exp. 6-30-08
 ELECTRICAL
 STATE OF CALIFORNIA

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CONDUIT

PROPOSED	EXISTING	
---	---	Lighting Conduit, unless otherwise indicated or noted
---	---	Traffic signal conduit
-C-	-c-	Communication conduit
-T-	-t-	Telephone conduit
-F-	-f-	Fire alarm conduit
-FO-	-fo-	Fiber optic conduit
---	---	Conduit termination 
		Conduit riser in/on structure or service pole

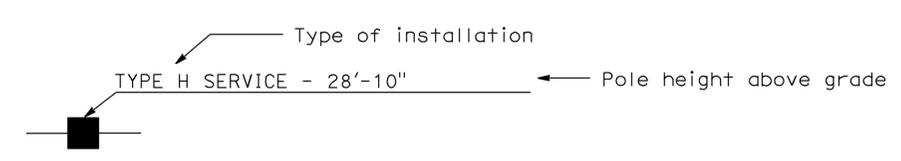
SIGNAL EQUIPMENT

PROPOSED	EXISTING	
		Pedestrian signal face
		Pedestrian push button post
		Pedestrian barricade
		Vehicle signal face (with backplate, 3-Section: red, yellow and green)
		Vehicle signal face with angle visors
		Modifications of basic symbols: "L" Indicates all non-arrow sections lowered "LG" Indicates lowered green section only "PV" Indicates 12" programmed visibility sections "8" indicates all 8" sections (only when specified)
		Type 15TS and Vehicle signal face
		Vehicle signal face with red, yellow and green left arrow sections
		Vehicle signal face with red and yellow sections and up green arrow
		Vehicle signal face (5 Section) with red, yellow and green sections and yellow and green right arrows
		Type 1 Standard and attached vehicle signal faces
		Standard with signal mast arm only and attached vehicle signal faces and internally illuminated street name sign

SERVICE EQUIPMENT

PROPOSED	EXISTING	
---OH---	---oh---	Overhead lines
		Wood pole "U" indicates utility owned
		Pole guy with anchor
		Utility transformer - ground mounted
		Service equipment enclosure type
		Service equipment enclosure door indicates front of enclosure
		Telephone demarcation cabinet

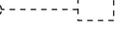
POLE-MOUNTED SERVICE DESIGNATION



ILLUMINATED OVERHEAD SIGN

PROPOSED	EXISTING	
		Overhead sign - Single post
		Overhead sign - Two post
		Overhead sign - Mounted on structure
		Overhead sign with electrolier

SIGNAL EQUIPMENT Cont

PROPOSED	EXISTING	
		Guard post
		Type 1 Standard with "Meter On" sign
		Emergency Vehicle detector

NOTES:

- All signal sections shall be 12" unless shown otherwise.
- Signal heads shall be provided with backplates unless shown otherwise.
- Signal indication shall be LED.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**ELECTRICAL SYSTEMS
 (SYMBOLS AND ABBREVIATIONS)**
 NO SCALE

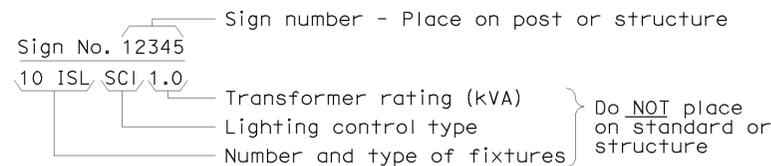
RSP ES-1B DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-1B
 DATED MAY 1, 2006 - PAGE 401 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-1B

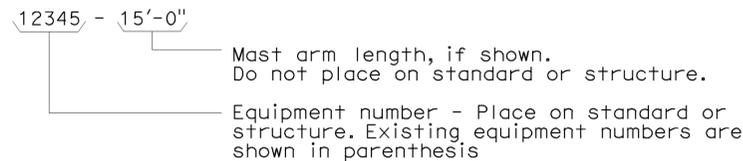
2006 REVISED STANDARD PLAN RSP ES-1B

EQUIPMENT IDENTIFICATION

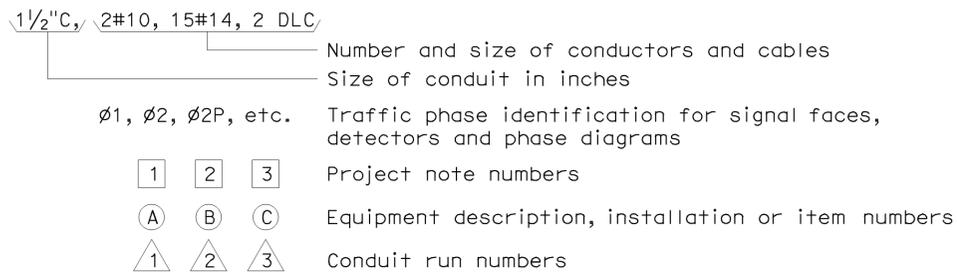
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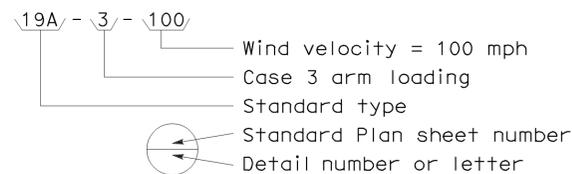
ELECTROLIER OR EQUIPMENT IDENTIFICATION NUMBER:



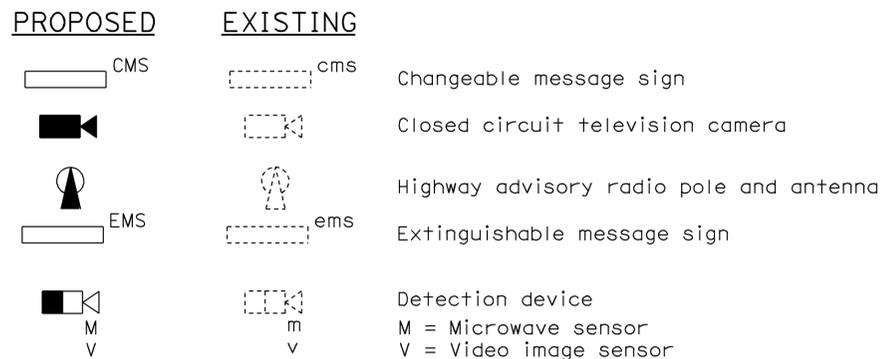
CONDUIT AND CONDUCTOR IDENTIFICATION:



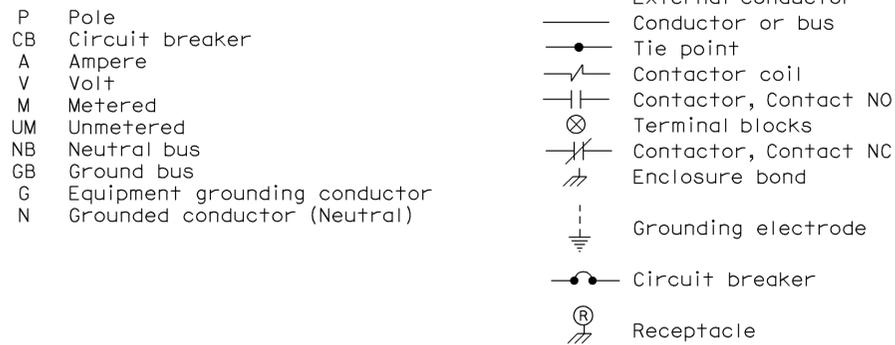
SIGNAL AND LIGHTING STANDARD (TYPICAL DESIGNATION):



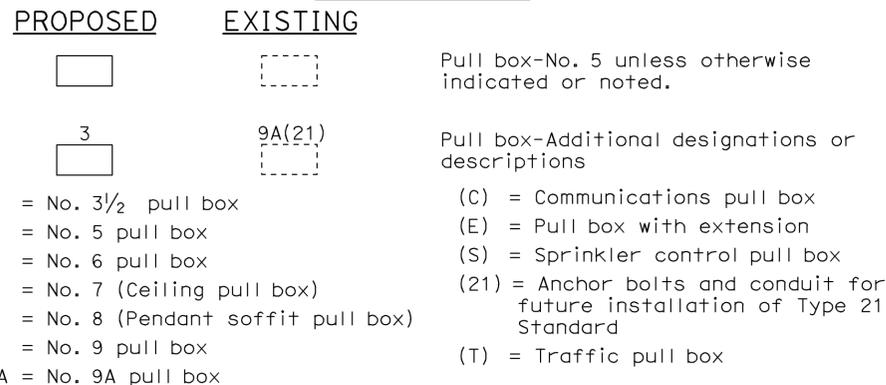
MISCELLANEOUS EQUIPMENT



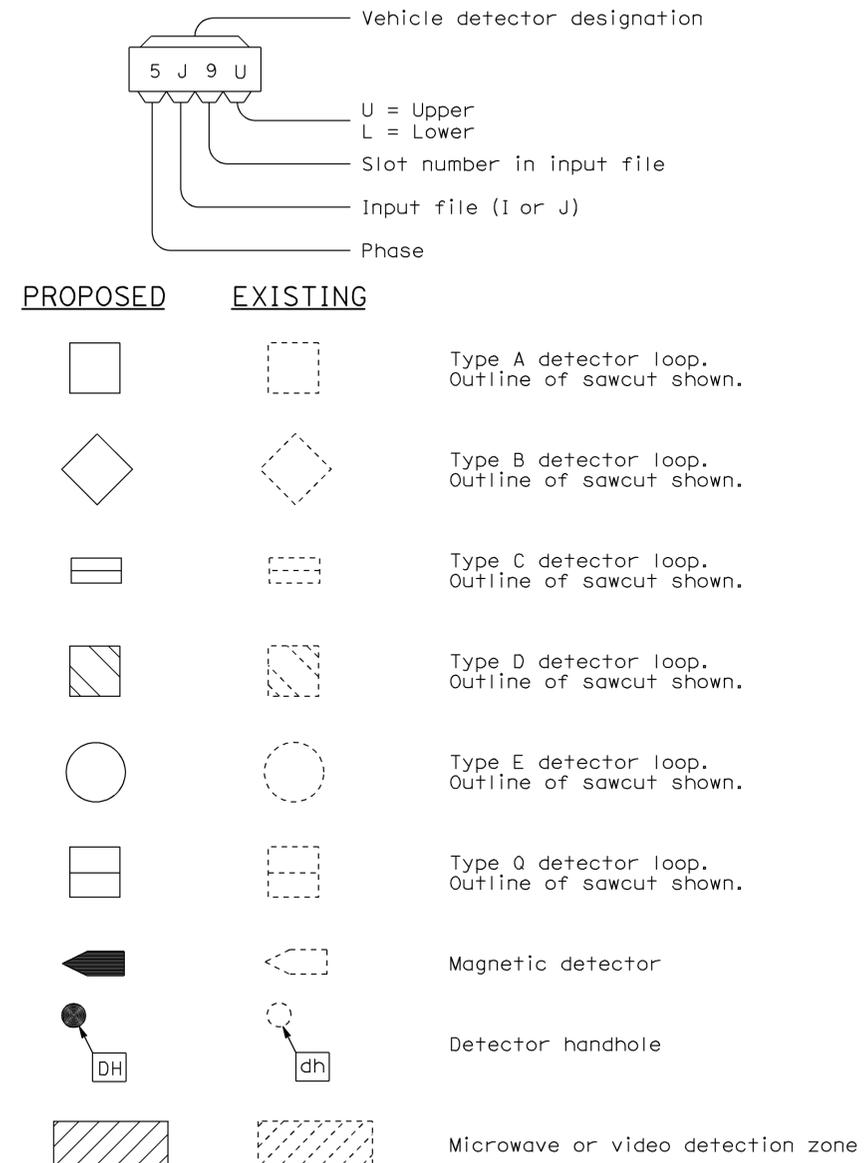
WIRING DIAGRAM LEGEND



PULL BOXES



VEHICLE DETECTORS



STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (SYMBOLS AND ABBREVIATIONS)

NO SCALE

RSP ES-1C DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-1C
 DATED MAY 1, 2006 - PAGE 402 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-1C

2006 REVISED STANDARD PLAN RSP ES-1C

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	8	R21.6/R25.9	17	20

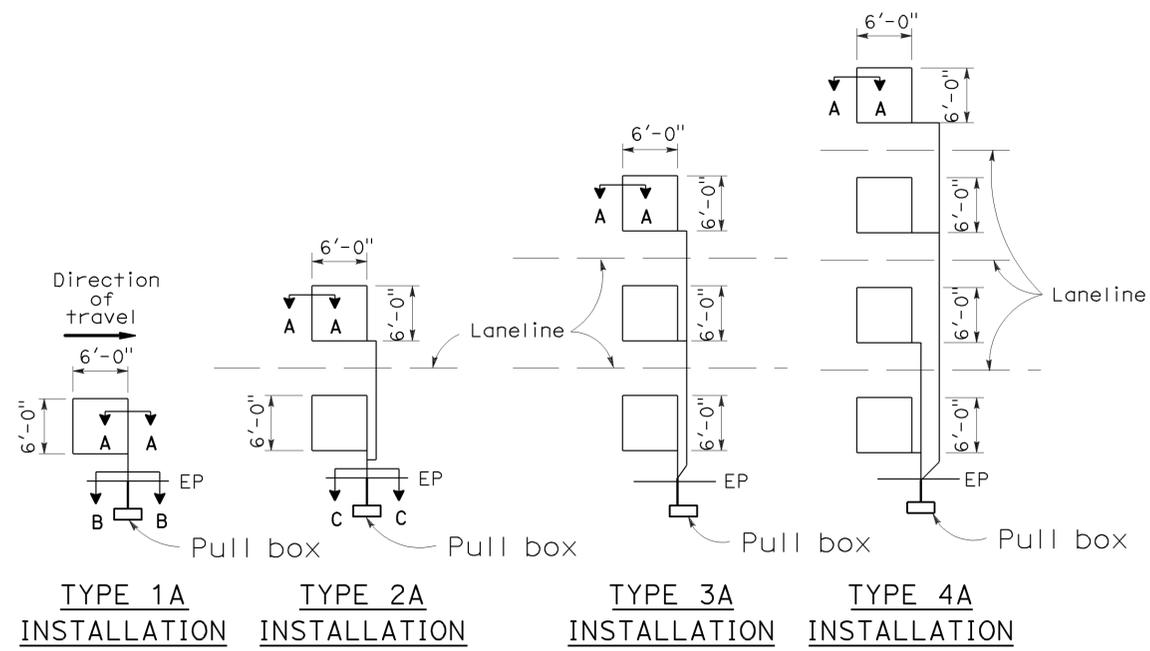
REGISTERED ELECTRICAL ENGINEER
 REGISTERED PROFESSIONAL ENGINEER
 Jeffery G. McRae
 No. E14512
 Exp. 6-30-08
 ELECTRICAL
 STATE OF CALIFORNIA

October 5, 2007
 PLANS APPROVAL DATE

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LOOP INSTALLATION PROCEDURE

- Loops shall be centered in lanes.
- Saw slots in pavement for loop conductors as shown in details.
- Distance between side of loop and a lead-in saw cut from adjacent detectors shall be 2'-0" minimum. Distance between lead-in saw cuts shall be 6" minimum.
- Bottom of saw slot shall be smooth with no sharp edges.
- Slots shall be washed until clean, blown out and thoroughly dried before installing loop conductors.
- Adjacent loops on the same sensor unit channel shall be wound in opposite directions.
- Identify and tag loop circuit pairs in the pull box with loop number, start (S) and finish (F) of conductor. Identify and tag lead-in-cable with sensor number and phase.
- Install loop conductor in slot using a 3/16" to 1/4" thick wood paddle. Hold loop conductors with wood paddles (at the bottom of the sawed slot) during sealant placement.
- No more than 2 twisted pairs shall be installed in one sawed slot.
- Allow additional 5'-0" of slack length of conductor for the lead-in run to pull box.
- The additional length of each conductor for each loop shall be twisted together into a pair (6 turns per 3'-4" minimum) before being placed in the slot and conduit leading to pull box.
- Test each loop circuit for continuity, circuit resistance and insulation resistance at the pull box before filling slots.
- Fill slots as shown in details.
- Splice loop conductors to lead-in-cable. Splices shall be soldered.
- End of lead-in-cable and Type 2 loop conductor shall be waterproofed prior to installing in conduit to prevent moisture from entering the cable.
- Lead-in-cable shall not be spliced between the pull box and the controller cabinet terminals.
- Test each loop circuit for continuity, circuit resistance and insulation resistance at the controller cabinet location.
- Where loop conductors are not to be spliced to a lead-in-cable, the ends of the conductors shall be taped and waterproofed with electrical insulating coating.

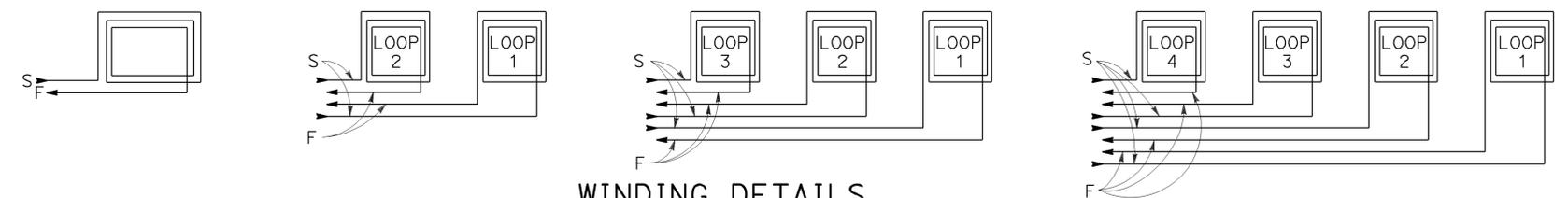


TYPE 1A INSTALLATION TYPE 2A INSTALLATION TYPE 3A INSTALLATION TYPE 4A INSTALLATION

SAWCUT DETAILS

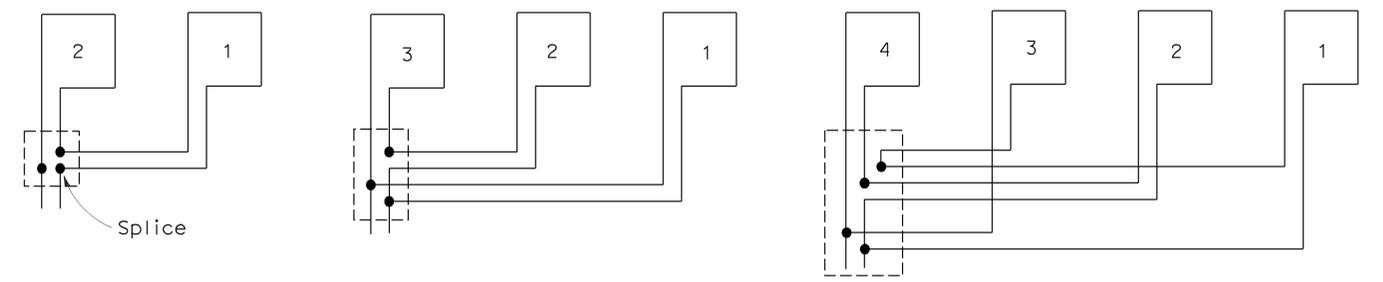
(Type A loop detector configurations illustrated)

- 1A thru 4A = 1 Type A loop configuration in each lane.
 - 1B thru 4B = 1 Type B loop configuration in each lane.
 - 1C = 1 Type C loop configuration entering lanes as required.
 - 1D thru 4D = 1 Type D loop configuration in each lane.
 - 1E thru 4E = 1 Type E loop configuration in each lane.
 - 1Q thru 4Q = 1 Type Q loop configuration in each lane.
- (Use Type A, B, C, D, E or Q loop detector configurations only when specified or shown on plans)



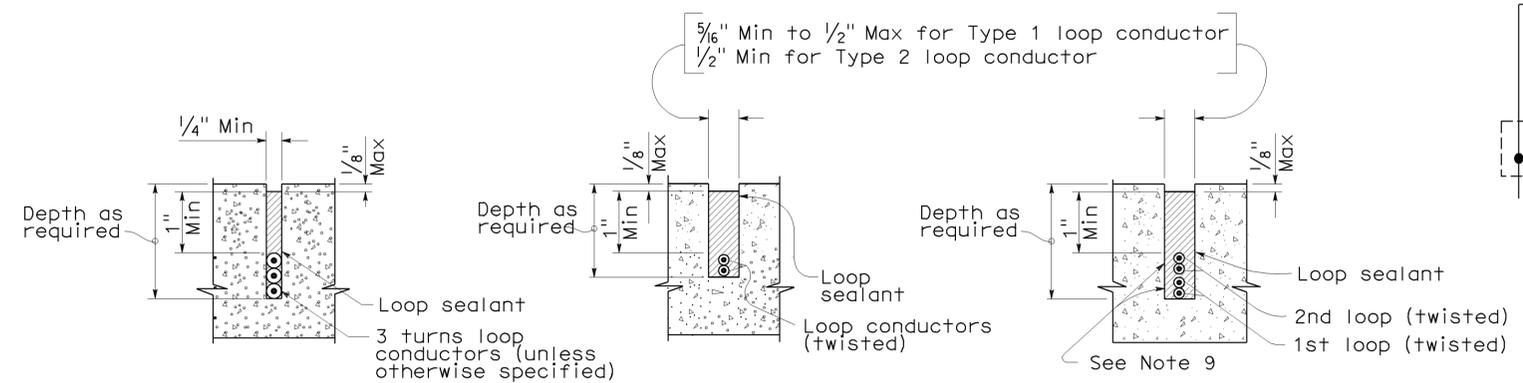
WINDING DETAILS

See Notes 6 and 7



TYPICAL LOOP CONNECTIONS

(Dashed lines represent the pull box)



SECTION A-A SECTION B-B SECTION C-C
 SLOT DETAILS - TYPE 1 AND TYPE 2 LOOP CONDUCTOR

ELECTRICAL SYSTEMS (DETECTORS)

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

NO SCALE

RSP ES-5A DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-5A DATED MAY 1, 2006 - PAGE 423 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-5A

2006 REVISED STANDARD PLAN RSP ES-5A

To accompany plans dated 08-16-10

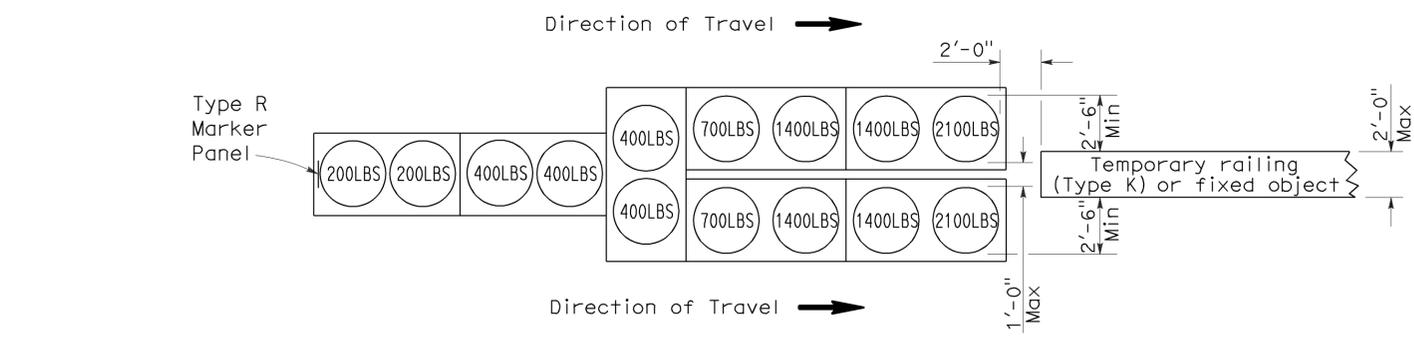
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	8	R21.6/R25.9	18	20

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

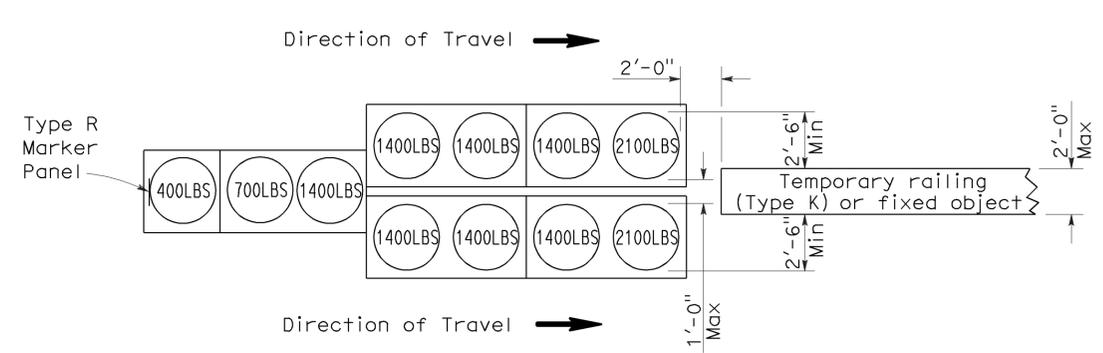
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To accompany plans dated 08-16-10



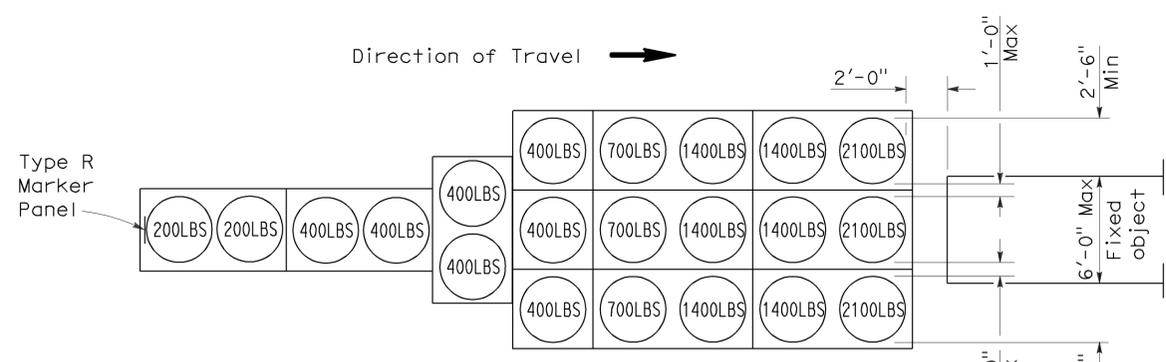
ARRAY 'TU14'

Approach speed 45 mph or more



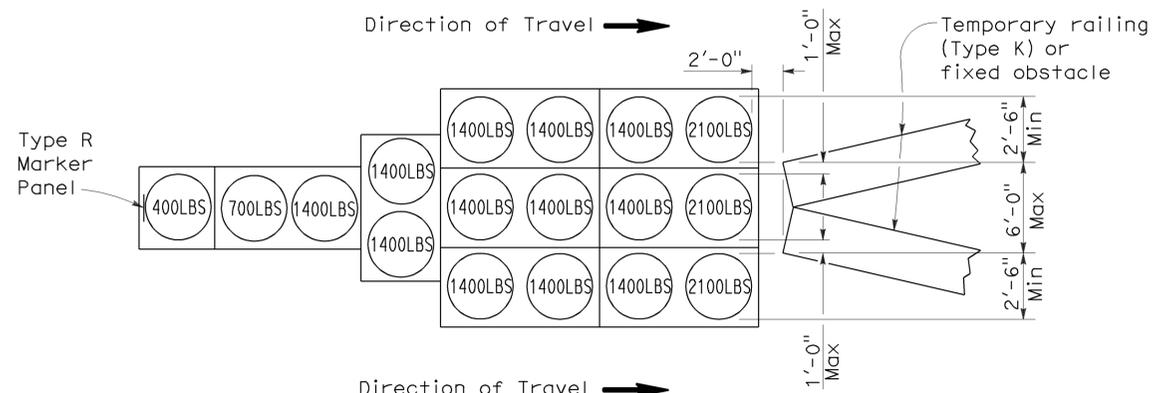
ARRAY 'TU11'

Approach speed less than 45 mph



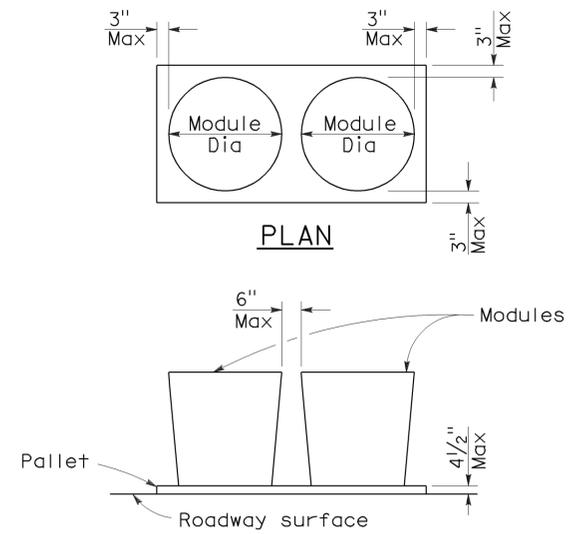
ARRAY 'TU21'

Approach speed 45 mph or more



ARRAY 'TU17'

Approach speed less than 45 mph



CRASH CUSHION PALLET DETAIL
See Note 7

NOTES:

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. Temporary crash cushion arrays shall not encroach on the traveled way.
4. Place the top of Type R marker panel 1" below the module lid.
5. Refer to Standard Plan A73B for marker details.
6. Approach speeds indicated conform to NCHRP 350 Report criteria.
7. Use of pallets is optional.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**TEMPORARY CRASH CUSHION,
SAND FILLED
(UNIDIRECTIONAL)**

NO SCALE

RSP T1A DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T1A
DATED MAY 1, 2006 - PAGE 211 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T1A

2006 REVISED STANDARD PLAN RSP T1A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	8	R21.6/R25.9	19	20

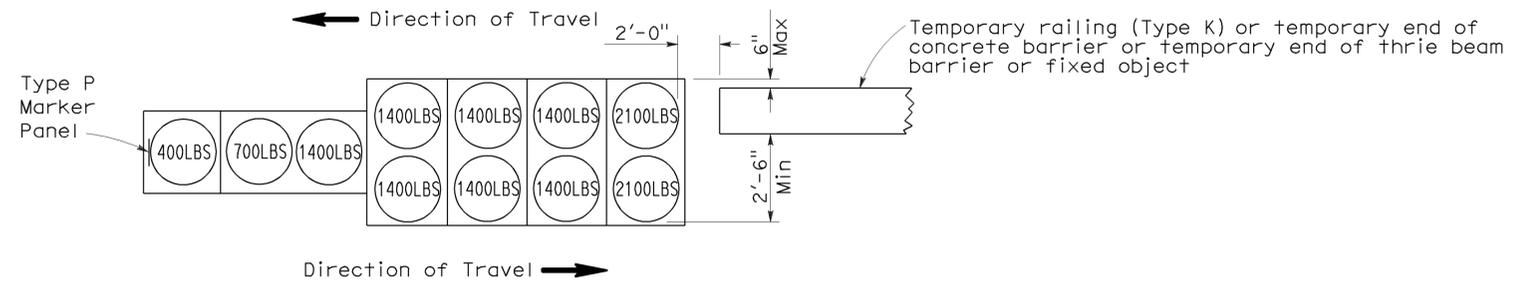
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

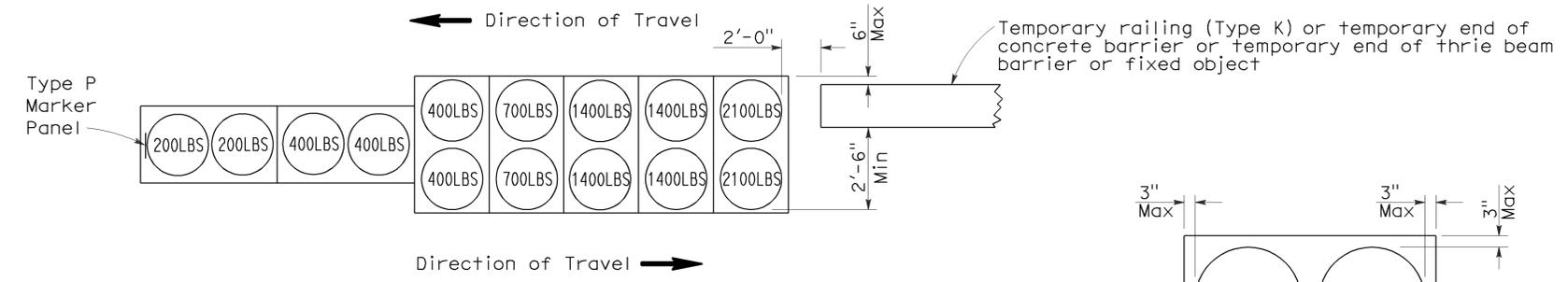
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 08-16-10



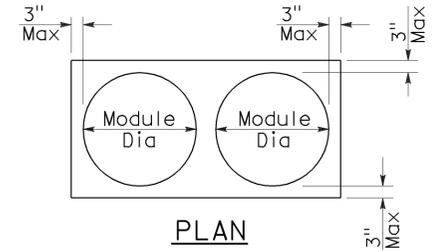
ARRAY 'TB11'

Approach speed less than 45 mph

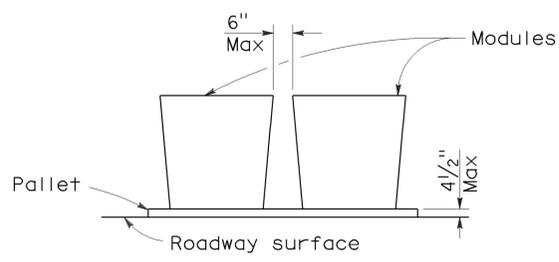


ARRAY 'TB14'

Approach speed 45 mph or more



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. Temporary crash cushion arrays shall not encroach on the traveled way.
4. Place the Type P marker panel so that the bottom of the panel rests upon the pallet.
5. Refer to Standard Plan A73B for marker details.
6. Approach speeds indicated conform to NCHRP 350 Report criteria.
7. Use of pallets is optional.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**TEMPORARY CRASH CUSHION,
SAND FILLED
(BIDIRECTIONAL)**

NO SCALE

RSP T1B DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T1B
DATED MAY 1, 2006 - PAGE 212 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T1B

2006 REVISED STANDARD PLAN RSP T1B

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	8	R21.6/R25.9	20	20

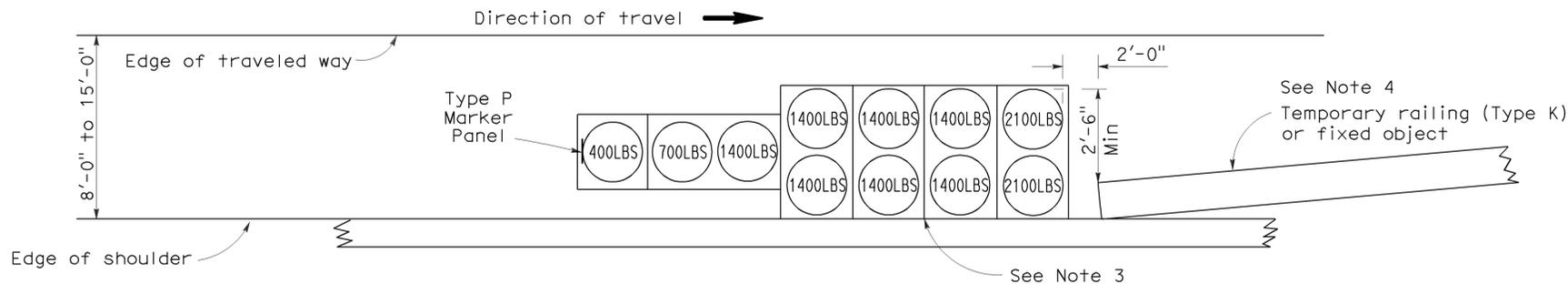
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

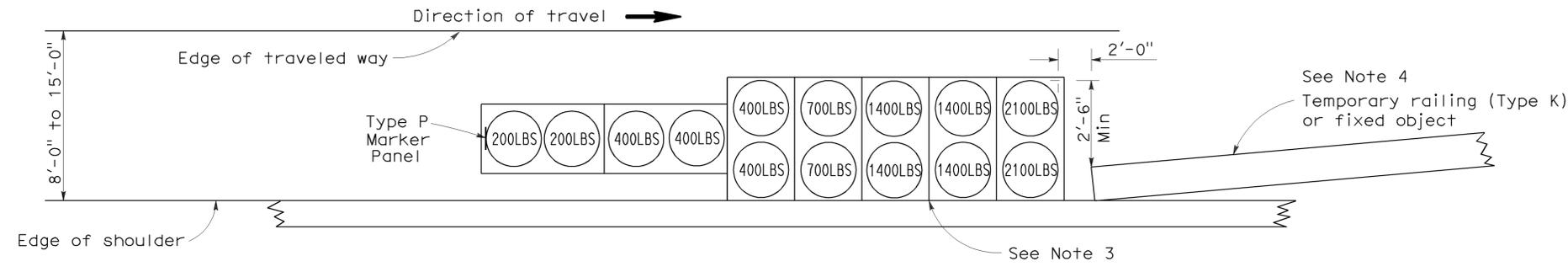
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REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

To accompany plans dated 08-16-10



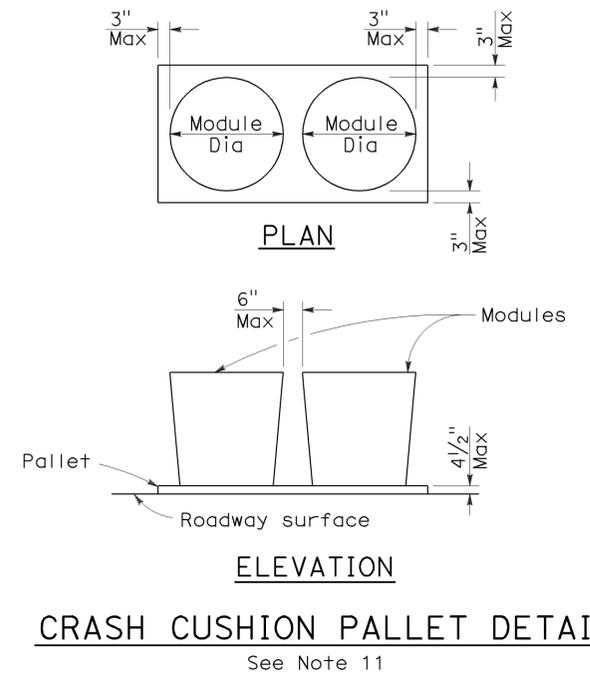
ARRAY 'TS11'
Approach speed less than 45 mph
See Note 9



ARRAY 'TS14'
Approach speed 45 mph or more
See Note 9

NOTES:

- (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
- All sand weights are nominal.
- The temporary crash cushion arrays shown on this plan shall be used only in locations where there will be traffic on one side of the temporary crash cushion array.
- If the fixed object or approach end of the temporary railing is less than 15'-0" from the edge of traveled way, a temporary crash cushion is required in a construction or work zone.
- Temporary crash cushion arrays shall not encroach on the traveled way.
- Arrays for median shoulders shall conform to details shown on this plan for outside shoulders.
- Place the Type P marker panel so that the bottom of the panel rests upon the pallet and faces traffic.
- Refer to Standard Plan A73B for marker details.
- For shoulder widths less than 8'-0", appropriate approved crash cushion protection, other than sand filled modules, shall be provided at fixed objects and at approach ends of temporary railing. The specific type of crash cushion shall be as shown on the project plans or as specified in the Special Provisions, or if not shown on the project plans or specified in the Special Provisions, shall be as approved by the Engineer.
- Approach speeds indicated conform to NCHRP 350 Report criteria.
- Use of pallets is optional.



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**TEMPORARY CRASH CUSHION,
SAND FILLED
(SHOULDER INSTALLATIONS)**

NO SCALE

RSP T2 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T2
DATED MAY 1, 2006 - PAGE 213 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T2

2006 REVISED STANDARD PLAN RSP T2