Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	78	45.2/57.9	1	14

INDEX OF PLANS

Sheet No.	Description
1	Title and Location Map
2	Typical Cross Sections
3-5	Construction Details
6	Construction Area Signs
7-8	Pavement Delineation Details and Quantities
9-11	Summary of Quantities
12-14	Revised Standard Plans

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

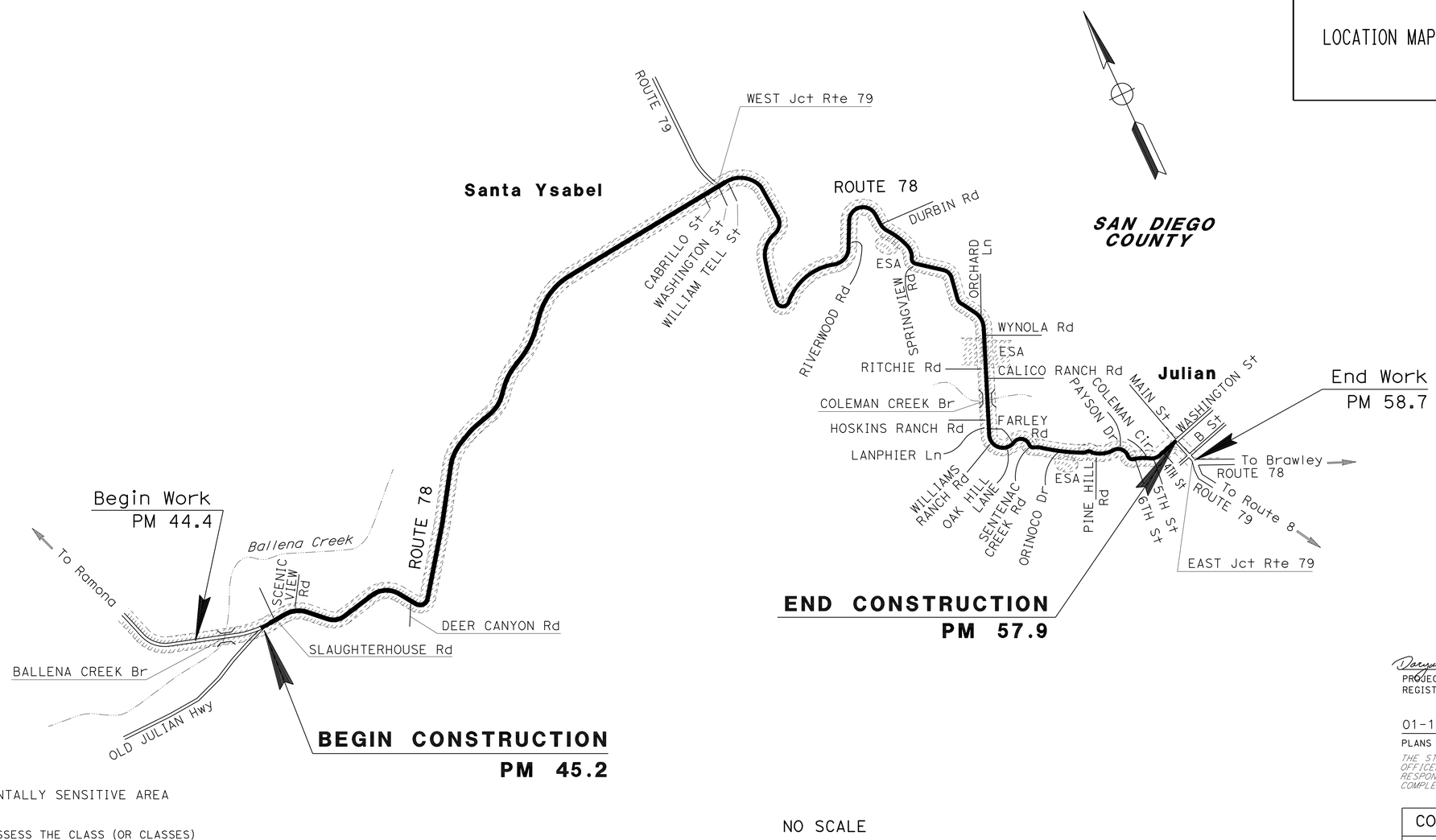
STATE OF CALIFORNIA

DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON STATE HIGHWAY

IN SAN DIEGO COUNTY AT AND NEAR JULIAN FROM OLD JULIAN HIGHWAY TO MAIN STREET

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



ESA ENVIRONMENTALLY SENSITIVE AREA

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

NO SCALE

PROJECT MANAGER ALBERTO GAYON

DESIGN ENGINEER DARYOOSH SHIMI

Daryoosh Shimi 12-27-10
PROJECT ENGINEER REGISTERED CIVIL ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER DARYOOSH SHIMI No. 42953 Exp. 03-31-12 CIVIL STATE OF CALIFORNIA

01-18-11
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.	11-2M1904
PROJECT ID	1100020040

LAST REVISION 01-03-11 DATE PLOTTED => 20-JAN-2011 TIME PLOTTED => 13:42

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	78	45.2/57.9	2	14

REGISTERED CIVIL ENGINEER DATE 12-27-10

01-18-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DARYOOSH SHIMI No. 42953 Exp. 3-31-12 CIVIL STATE OF CALIFORNIA

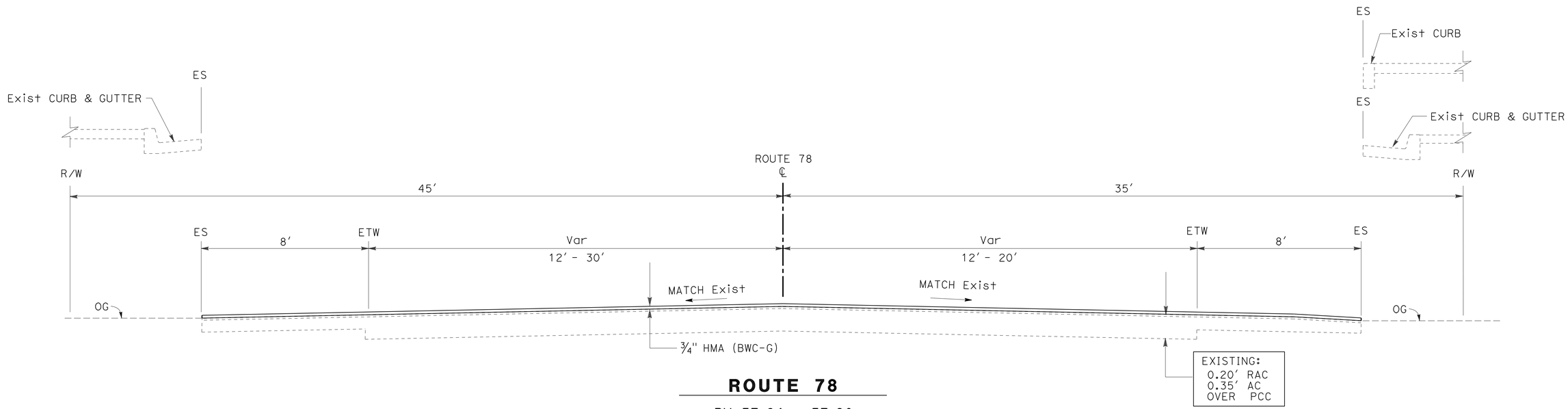
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTION) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
3. SEE CONSTRUCTION DETAIL SHEETS FOR COLD PLANING DETAIL AT DIKES, CURBS AND GUTTERS.
4. FOG SEAL COAT SHALL BE APPLIED TO ALL EXISTING DIKES.

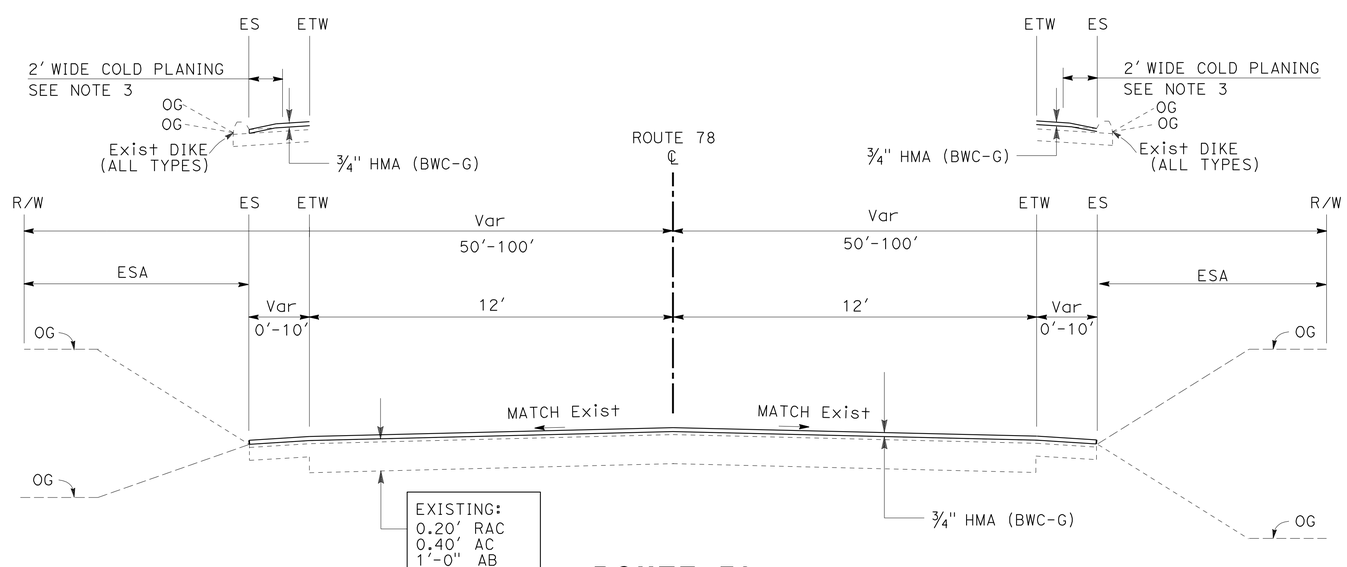
DESIGN DESIGNATION (ROUTE 78)

2010 ADT = 4,200
2031 ADT = 8,000
T% = 7.2% OF ADT



ROUTE 78

PM 57.84 - 57.90
(DOWNTOWN JULIAN AREA)



ROUTE 78

PM 45.20 - 57.84

ABBREVIATIONS:

HMA (BWC-G) - HOT MIX ASPHALT
(BONDED WEARING COURSE - GAP GRADED)
RAC - RUBBERIZED ASPHALT CONCRETE
ESA - ENVIRONMENTALLY SENSITIVE AREA

TYPICAL CROSS SECTION

NO SCALE

X-1

REVISED BY | DATE REVISED
HECTOR GRACIA | DARYOOSH SHIMI
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
ALBERTO GAYON

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
MAINTENANCE

LAST REVISION 01-03-11 | DATE PLOTTED => 20-JAN-2011 | TIME PLOTTED => 13:42

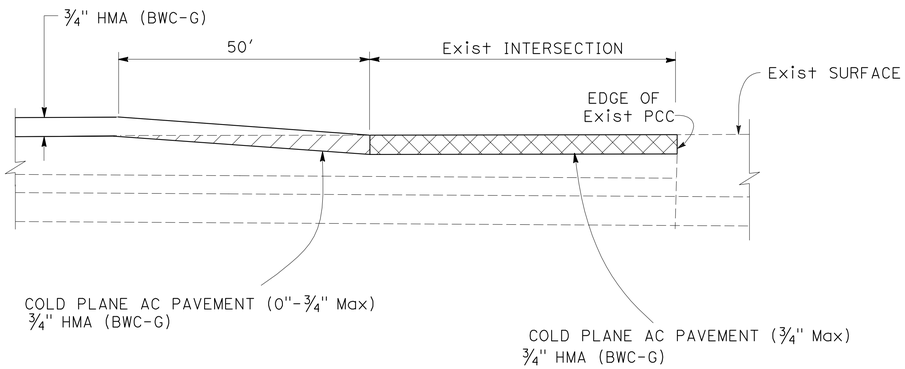
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	78	45.2/57.9	3	14

REGISTERED CIVIL ENGINEER 12-27-10 DATE

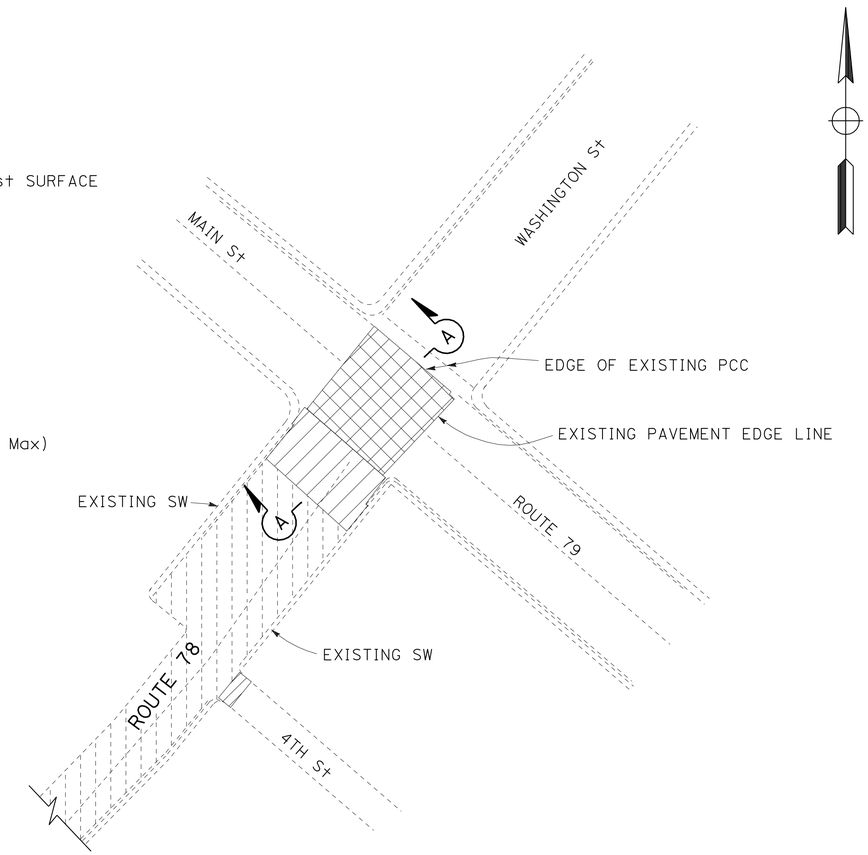
01-18-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DARYOOSH SHIMI No. 42953 Exp. 3-31-12 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 A-A



LIMIT OF HMA (BWC-G) AT PM 57.90

NOTE:

REFER TO CONSTRUCTION DETAILS SHEET C-3 FOR CONFORM DETAILS AT CURB & AT CURB AND GUTTER

LEGEND:

COLD PLANE AC PAVEMENT (3/4" Max)
3/4" HMA (BWC-G)

COLD PLANE AC PAVEMENT (0-3/4" Max)
3/4" HMA (BWC-G)

3/4" HMA (BWC-G)

CONSTRUCTION DETAILS

NO SCALE

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
MAINTENANCE

FUNCTIONAL SUPERVISOR: ALBERTO GAYON
CALCULATED-DESIGNED BY: HECTOR GRACIA
CHECKED BY: DARYOOSH SHIMI
REVISED BY
DATE REVISED

LAST REVISION 01-04-11
DATE PLOTTED => 20-JAN-2011
TIME PLOTTED => 13:42

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	78	45.2/57.9	4	14

REGISTERED CIVIL ENGINEER 12-27-10 DATE

01-18-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DARYOOSH SHIMI
No. 42953
Exp. 3-31-12
CIVIL
STATE OF CALIFORNIA

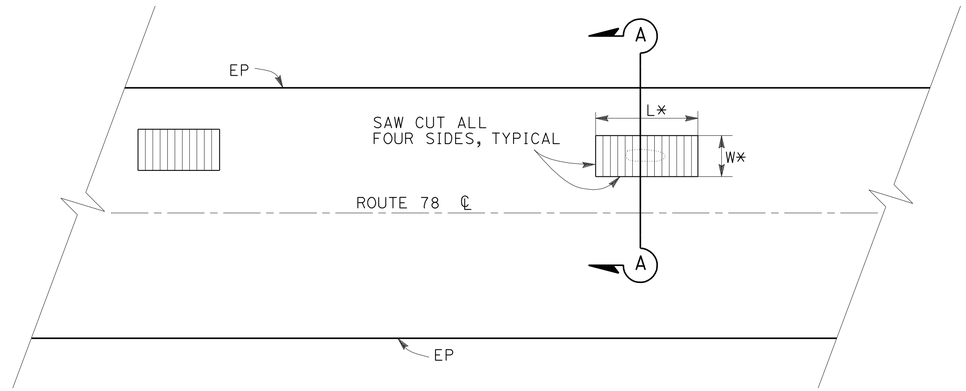
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. SEE SUMMARY OF QUANTITIES FOR LOCATIONS & DIMENSIONS OF ALL REPLACE AC SURFACING.

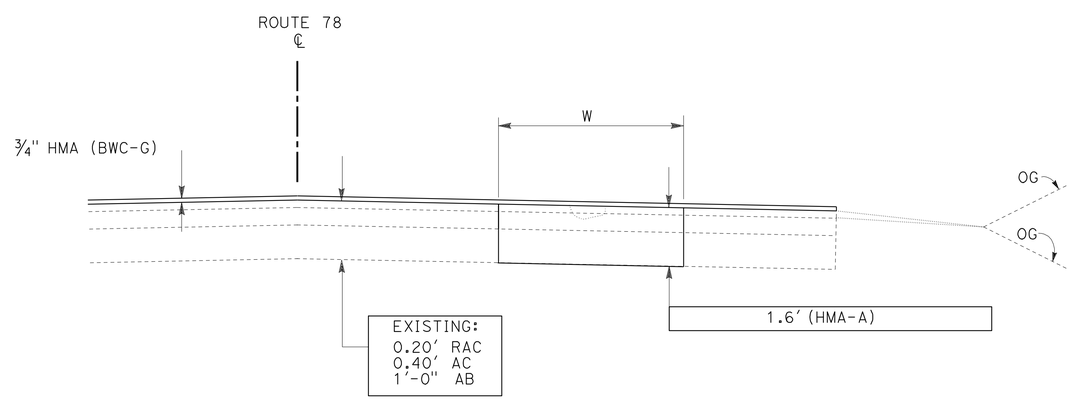
LEGEND:

REPLACE AC SURFACING



TYPICAL LAYOUT

* SEE NOTE



SECTION A-A

TYPICAL REPLACE AC SURFACING DETAIL

CONSTRUCTION DETAILS

NO SCALE

C-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
MAINTENANCE

FUNCTIONAL SUPERVISOR: ALBERTO GAYON
CALCULATED-DESIGNED BY: HECTOR GRACIA
CHECKED BY: DARYOOSH SHIMI
REVISED BY
DATE REVISED

LAST REVISION 01-04-11
DATE PLOTTED => 20-JAN-2011
TIME PLOTTED => 13:42

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	78	45.2/57.9	5	14

REGISTERED CIVIL ENGINEER DATE 12-27-10

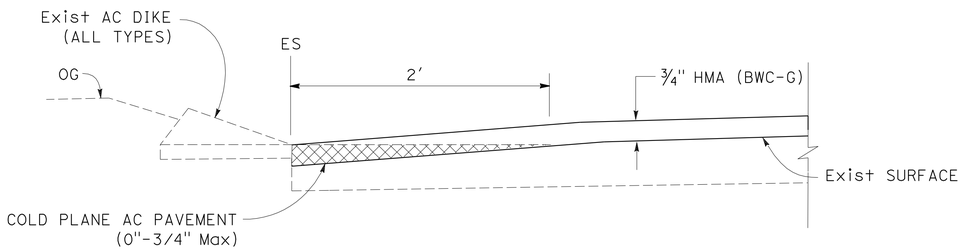
01-18-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DARYOOSH SHIMI No. 42953 Exp. 3-31-12 CIVIL STATE OF CALIFORNIA

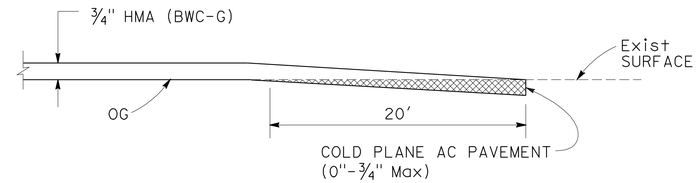
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

LEGEND:

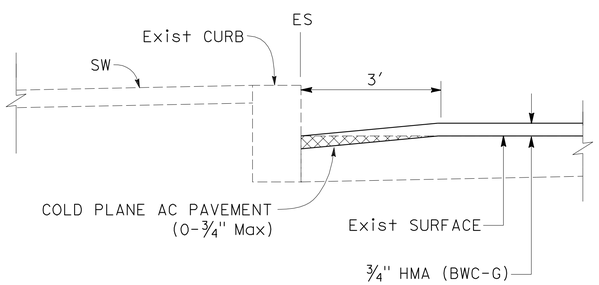
COLD PLANE AC PAVEMENT (0-¾" Max)



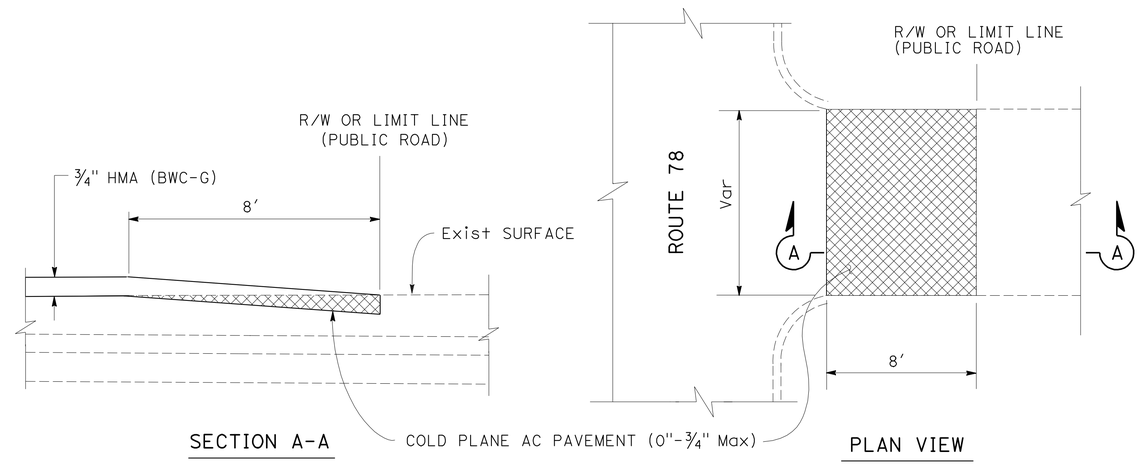
TYPICAL COLD PLANE SECTION AT DIKE



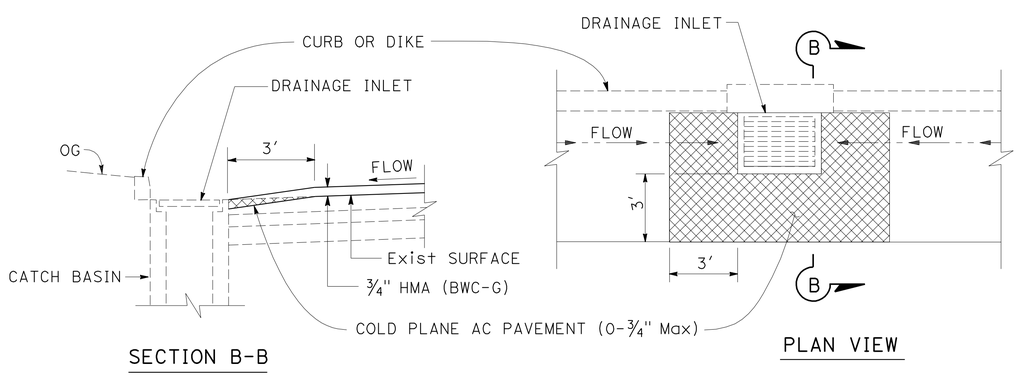
BEGIN WORK CONFORM DETAIL



CURB CONFORM DETAIL

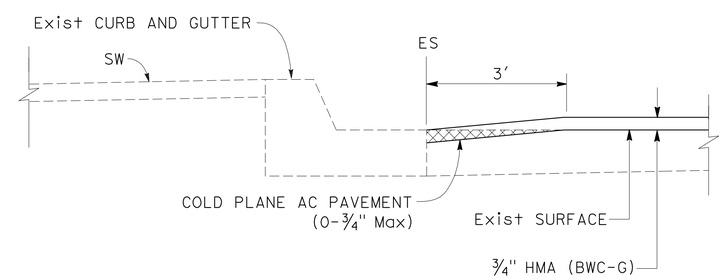


CROSSROADS AND DRIVEWAYS CONFORM DETAIL



DRAINAGE INLET CONFORM DETAIL

* BACKFILL DIKE PER STANDARD PLAN A87B CASE F USING IMPORTED BORROW



CURB AND GUTTER CONFORM DETAIL

CONSTRUCTION DETAILS

NO SCALE

C-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
MAINTENANCE
Caltrans

FUNCTIONAL SUPERVISOR: ALBERTO GAYON
CALCULATED-DESIGNED BY: HECTOR GRACIA
CHECKED BY: DARYOOSH SHIMI
REVISED BY
DATE REVISED

LAST REVISION 01-05-11
DATE PLOTTED => 20-JAN-2011
TIME PLOTTED => 13:42

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	78	45.2/57.9	6	14

REGISTERED CIVIL ENGINEER 12-27-10 DATE

01-18-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SHAHIN T. ADIBI No. 54839 Exp. 06-30-12 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. 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 SPECIFICATIONS ARE USED.
3. EXISTING UTILITIES ARE NOT SHOWN ON THESE PLAN SHEETS. THE CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING UTILITIES AND ADJUST THE FIELD LOCATION OF THE SIGN POSTS IN CONSULTATION WITH THE ENGINEER.

LEGEND:

XX = CONSTRUCTION AREA SIGN

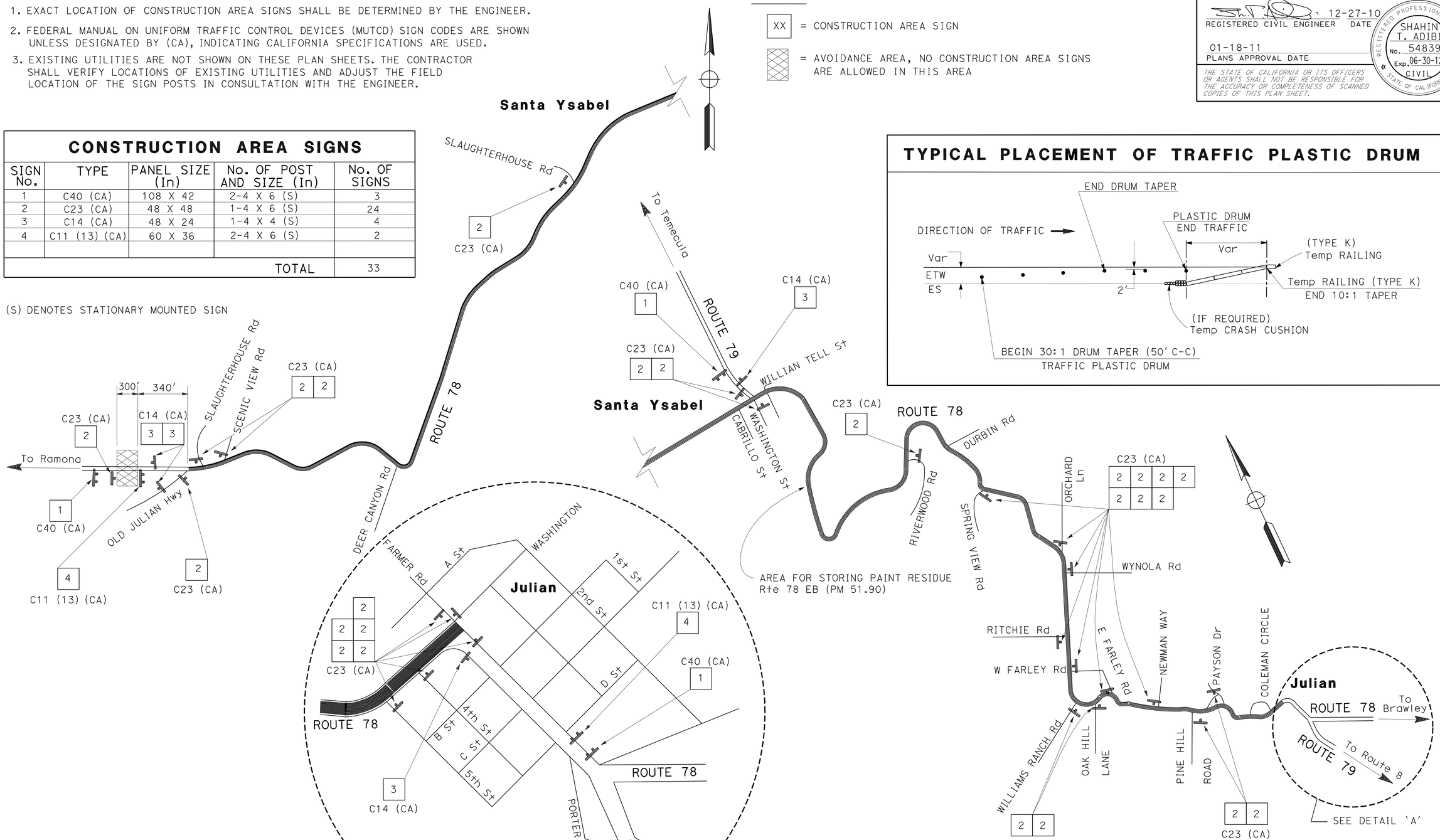
= AVOIDANCE AREA, NO CONSTRUCTION AREA SIGNS ARE ALLOWED IN THIS AREA

CONSTRUCTION AREA SIGNS

SIGN No.	TYPE	PANEL SIZE (In)	No. OF POST AND SIZE (In)	No. OF SIGNS
1	C40 (CA)	108 X 42	2-4 X 6 (S)	3
2	C23 (CA)	48 X 48	1-4 X 6 (S)	24
3	C14 (CA)	48 X 24	1-4 X 4 (S)	4
4	C11 (13) (CA)	60 X 36	2-4 X 6 (S)	2
			TOTAL	33

(S) DENOTES STATIONARY MOUNTED SIGN

TYPICAL PLACEMENT OF TRAFFIC PLASTIC DRUM



THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY

CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC DESIGN

ROBERT EDEJER | SHAHIN ADIBI | CAMILLE ABOU FADEL | REVISED BY | DATE REVISED | CALCULATED-DESIGNED BY | CHECKED BY | FUNCTIONAL SUPERVISOR

LAST REVISION 01-05-11 | DATE PLOTTED => 20-JAN-2011 | TIME PLOTTED => 13:42

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	78	45.2/57.9	7	14

REGISTERED CIVIL ENGINEER 12-27-10 DATE

01-18-11
PLANS APPROVAL DATE

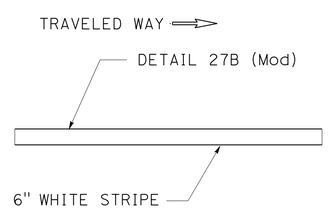
REGISTERED PROFESSIONAL ENGINEER SHAHIN T. ADIBI No. 54839 Exp. 06-30-12 CIVIL STATE OF CALIFORNIA

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. PAVEMENT DELINEATION SHALL BE REPLACED IN-KIND, UNLESS OTHERWISE NOTED.
2. ALL PAINT SHALL BE REPLACED WITH THERMOPLASTIC FROM PM 45.2 TO PM 51.1 AND TWO-COMPONENT TRAFFIC STRIPE FROM PM 51.1 TO PM 57.9, UNLESS OTHERWISE NOTED.
3. DETAIL 27B (Mod) SHALL BE USED FROM PM 51.1 TO PM 57.9.

DETAIL 27B (Mod)



THERMOPLASTIC PAVEMENT MARKING

ROUTE	LOCATION	DIRECTION	POSTMILE	TYPE I ARROW SQFT	TYPE III(L) ARROW SQFT	TYPE IV(L) ARROW SQFT	LIMIT LINE 12 INCH SQFT	KEEP SQFT	CLEAR SQFT	STOP SQFT	AHEAD SQFT
78	MAINLANE	EB/WB	45.2-57.9	25	294	30	540	24	27	44	31
			SUBTOTAL	25	294	30	540	24	27	44	31
			TOTAL	1,015							

ROUTE	DESCRIPTION	POSTMILE	DETAIL	PAVEMENT MARKER SUMMARY: RETROREFLECTIVE (EA) TYPE D YELLOW	TYPE G CLEAR	TYPE H YELLOW	TRAFFIC STRIPE SUMMARY: 4" 2-COMPONENT PAINT TRAFFIC STRIPE (LF)	6" 2-COMPONENT PAINT TRAFFIC STRIPE (LF)	PAINT (LF) (1-COAT)	THERMOPLASTIC (LF) 4" SOLID	8" SOLID	REMARKS
78	CENTERLINE	45.20/50.23	22	2,214					26,543*	53,086		THERMOPLASTIC
			38		18						418	
			38A								71	
		50.23/50.44	19	24		47			1,109*	2,218		
		50.44/50.81	6	42						1,954		
		50.81/51.06	19	29		56			1,320*	2,640		
		51.07/51.10	22	16					158*	316		
		51.12/54.35	21				17,504					4" 2-COMPONENT PAINT
			38		8						170	THERMOPLASTIC
			38A								355	
		54.35/54.43	18				422					4" 2-COMPONENT PAINT
		54.43/54.79	5				1,901					
		54.79/54.93	18				739					
		54.93/57.90	21				15,697					
			38A								50	THERMOPLASTIC
	RIGHT EDGELINES	45.20/51.10	27B							62,252		
	RIGHT EDGELINES	51.10/57.90	27B (Mod)					71,860				6" 2-COMPONENT PAINT
			SUBTOTAL	2,325	26	103	36,263	71,860	29,130*	122,466	1,064	
			TOTAL	2,454			36,263	71,860	29,130*	122,466	1,064	

* - BLACK PAINT

PAVEMENT DELINEATION DETAILS AND QUANTITIES

NO SCALE

PDD-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: CAMILLE ABOU FADEL
CALCULATED-DESIGNED BY: ROBERT EDEJER
CHECKED BY: SHAHIN ADIBI
REVISED BY / DATE REVISED

LAST REVISION 01-05-11
DATE PLOTTED => 20-JAN-2011
TIME PLOTTED => 13:42

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	78	45.2/57.9	8	14

REGISTERED CIVIL ENGINEER 12-27-10 DATE

01-18-11
PLANS APPROVAL DATE

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

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

REMOVE PAVEMENT MARKER (N)

ROUTE	DESCRIPTION	POSTMILE	RETROREFLECTIVE (EA)		
			TYPE D	TYPE G	TYPE H
			YELLOW	CLEAR	YELLOW
78	EB/WB MAINLANE	45.20/57.90	2,325	26	103
		TOTAL	2,454		

REMOVE YELLOW PAINTED TRAFFIC STRIPE (HAZARDOUS WASTE)

ROUTE	DESCRIPTION	POSTMILE	DETAIL	LENGTH (LF)
78	CENTERLINE	45.20/57.90	5	476
			6	490
			18	1,454
			19	3,402
			21	65,504
			22	53,402
			TOTAL	124,728

REMOVE THERMOPLASTIC PAVEMENT MARKING

ROUTE	DETAIL/TYPE	SQFT
78	TYPE I, III(L) & IV(L) ARROWS, 12" LIMIT LINE, KEEP, CLEAR, STOP, AHEAD	1,015
	TOTAL	1,015

REMOVE THERMOPLASTIC TRAFFIC STRIPE

ROUTE	DESCRIPTION	POSTMILE	DETAIL	LENGTH (LF)
78	EB/WB - MAINLANE	45.20/57.90	38	588
			38A	476
			TOTAL	1,064

REMOVE PAINTED TRAFFIC STRIPE

ROUTE	DESCRIPTION	POSTMILE	DETAIL	LENGTH (LF)
78	EB/WB - ETW	45.20/57.90	27B	134,112
			TOTAL	134,112

PAVEMENT DELINEATION QUANTITIES

PDQ-1

REVISED BY | DATE REVISED

ROBERT EDEJER | SHAHIN ADIBI

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR: CAMILLE ABOU FADEL

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® TRAFFIC DESIGN

LAST REVISION 01-05-11 | DATE PLOTTED => 20-JAN-2011 | TIME PLOTTED => 13:43

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	78	45.2/57.9	9	14

REGISTERED CIVIL ENGINEER DATE 12-27-10

01-18-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DARYOOSH SHIMI No. 42953 Exp. 3-31-12 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.

DIKE & DIKE CONFORM

ROUTE	LOCATION (PM)	LOCATION (PM)	DIRECTION	Exist HMA DIKE LENGTH FT (N)	ASPHALTIC EMULSION (FOG SEAL COAT) (TON)	CONFORM @ DIKES * (SQYD)
78	45.962	46.033	EB	375	0.03	84
	46.114	46.397		1,494	0.10	333
	46.397	46.428		164	0.01	37
	46.691	46.761		370	0.03	83
	47.095	47.338		1,283	0.09	286
	51.009	51.049		211	0.01	48
	51.070	51.090		106	0.01	24
	51.240	51.242		11	0.00**	3
	51.412	51.500		465	0.03	104
	51.542	51.592		264	0.02	60
	51.593	51.623		158	0.01	36
	51.564	51.703		734	0.05	164
	51.935	52.014		417	0.03	94
	52.015	52.084		364	0.03	82
	52.085	52.166		428	0.03	96
	52.367	52.437		370	0.03	83
	52.478	52.508		158	0.01	36
	52.558	52.608		264	0.02	60
	52.910	52.960		264	0.02	60
	53.081	53.131		264	0.02	60
	53.252	53.343		480	0.03	108
	53.383	53.453		370	0.03	83
	53.604	53.614		53	0.00**	13
	53.624	53.644		106	0.01	24
	55.052	55.062		53	0.00	13
	55.072	55.092		106	0.01	24
	55.766	55.786		106	0.01	24
	56.541	56.621		422	0.03	95
	57.285	57.355		370	0.03	83
	57.476	57.546		370	0.03	83
	45.817	46.154	WB	1,779	0.12	396
	46.571	46.702		692	0.05	155
	46.732	46.822		475	0.03	106
	46.843	46.853		53	0.00**	13
	46.943	47.085		750	0.05	168
	47.105	47.115		53	0.00	13
	47.165	47.205		211	0.01	48
	47.246	47.336		475	0.03	106
	48.525	48.576		269	0.02	61
	51.057	51.068		58	0.00**	14
	51.078	51.110		169	0.01	38
	52.045	52.166		639	0.04	143
	52.166	52.206		211	0.01	48
	52.719	52.780		322	0.02	72
	53.142	53.252		581	0.04	130
	55.364	55.415		269	0.02	61
	57.708	57.748		211	0.01	48
				SUBTOTAL 1		4003
				TOTAL	1.22	

(N) NOT A SEPARATE PAY ITEM. FOR INFORMATION ONLY.
* BASED ON 2' WIDTH
** QUANTITY IS LESS THAN 0.01 TON.

REPLACE ASPHALT CONCRETE SURFACING

ROUTE	LOCATION (PM)	DIRECTION	WIDTH (N) FT	LENGTH (N) FT	REPLACE AC SURFACING CY	DESCRIPTION
78	45.8	EB	2.0	2.0	0.24	
78	50.6	EB	13.0	3.0	2.31	
78	57.9	EB	5.0	18.0	5.33	
78	50.6	WB	13.0	3.0	2.31	
78	52.7	WB	4.0	1.5	0.36	
78	52.7	WB	3.0	1.0	0.18	
				TOTAL	10.73	

SUMMARY OF QUANTITIES

Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE

FUNCTIONAL SUPERVISOR: ALBERTO GAYON
CALCULATED-DESIGNED BY: HECTOR GRACIA
CHECKED BY: DARYOOSH SHIMI
REVISED BY
DATE REVISED

LAST REVISION 01-05-11
DATE PLOTTED => 20-JAN-2011
TIME PLOTTED => 13:43

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	78	45.2/57.9	10	14

REGISTERED CIVIL ENGINEER DATE 12-27-10

01-18-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DARYOOSH SHIMI No. 42953 Exp. 3-31-12 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.

CROSS STREETS & DRIVEWAYS QUANTITIES

LOCATION	PM	LENGTH LF (N)	WIDTH LF (N)	COLD PLANE AC PAVEMENT (SQYD)	HMA (BWC-G) (TON)	ASPHALTIC EMULSION MEMBRANE (BWC) (TON)	DESCRIPTION
EB Rte 78	45.200	24	20	53	*	*	CONFORM AT Beg PROJECT, EB
	45.710	27	8	24	0.9	0.01	PAVED DRIVEWAY, RANCHO TRES Y DOS
	45.821	8	8	7	0.3	0.00	PAVED DRIVEWAY
	46.468	138	8	123	4.8	0.07	PAVED ROAD, DEER CANYON Dr
	47.419	155	8	138	5.4	0.07	PAVED DRIVEWAY
	51.000	14	8	12	0.5	0.01	PAVED ROAD, CABRILLO St
	51.070	12	8	11	0.4	0.01	PAVED DRIVEWAY
	51.110	40	8	36	1.4	0.02	PAVED ROAD, WASHINGTON St
	51.120	22	8	20	0.8	0.01	PAVED DRIVEWAY
	51.180	28	8	25	1.0	0.01	PAVED DRIVEWAY
	51.210	32	8	28	1.1	0.02	PAVED ROAD, WILLIAM TELL St
	52.176	86	8	76	3.0	0.04	PAVED DRIVEWAY, INAJA MEMORIAL
	52.779	36	8	32	1.3	0.02	PAVED ROAD, RIVERWOOD Rd
	52.860	12	8	11	0.4	0.01	PAVED DRIVEWAY
	53.624	74	8	66	2.6	0.04	PAVED ROAD, SPRINGVIEW Rd
	53.944	12	8	11	0.4	0.01	PAVED DRIVEWAY
	54.238	28	8	25	1.0	0.01	PAVED DRIVEWAY
	54.274	112	8	100	3.9	0.05	PAVED DRIVEWAY
	54.640	24	8	21	0.8	0.01	PAVED ROAD, RITCHIE Rd
	55.062	48	8	43	1.7	0.02	PAVED ROAD, HOSKINGS Rd
	55.354	28	8	25	1.0	0.01	PAVED ROAD, OAK HILL Ln
	55.716	112	8	100	3.9	0.05	PAVED ROAD, SENETENAC CREEK Rd
	55.957	24	8	21	0.8	0.01	PAVED DRIVEWAY
	56.923	60	8	53	2.1	0.03	PAVED ROAD, PINE HILLS Rd
	57.657	24	8	21	0.8	0.01	PAVED DRIVEWAY
	57.717	60	8	53	2.1	0.03	PAVED ROAD, 6TH St
	57.778	40	8	36	1.4	0.02	PAVED DRIVEWAY
	57.828	32	8	28	1.1	0.02	PAVED ROAD, 4TH St
SUBTOTAL 2				1198	44.9	0.62	

CROSS STREETS & DRIVEWAYS QUANTITIES

LOCATION	PM	LENGTH LF (N)	WIDTH LF (N)	COLD PLANE AC PAVEMENT (SQYD)	HMA (BWC-G) (TON)	ASPHALTIC EMULSION MEMBRANE (BWC)(TON)	DESCRIPTION
WB Rte 78	45.200	26	20	58	*	*	CONFORM AT Beg PROJECT, WB
	45.339	54	8	48	1.9	0.03	PAVED ROAD, SLAUGHTERHOUSE Rd
	45.481	48	8	43	1.7	0.02	PAVED ROAD, SCENIC VIEW Rd
	46.225	54	8	48	1.9	0.03	PAVED DRIVEWAY
	46.429	52	8	46	1.8	0.03	PAVED DRIVEWAY
	47.558	27	8	24	0.9	0.01	PAVED DRIVEWAY
	47.810	18	8	16	0.6	0.01	PAVED DRIVEWAY
	47.870	18	8	16	0.6	0.01	PAVED DRIVEWAY
	51.160	106	8	94	3.7	0.05	ROUTE 79 (SANTA YSABELA)
	51.251	39	8	35	1.4	0.02	PAVED DRIVEWAY
	51.432	36	8	32	1.3	0.02	PAVED DRIVEWAY
	53.560	12	8	11	0.4	0.01	PAVED DRIVEWAY
	53.685	21	8	19	0.7	0.01	PAVED DRIVEWAY
	53.805	19	8	17	0.7	0.01	PAVED DRIVEWAY
	53.960	39	8	35	1.4	0.02	SIDE STREET
	54.120	29	8	26	1.0	0.01	ENTRANCE TO PARKING LOT
	54.436	221	8	196	7.8	0.11	PAVED PARKING
	54.437	56	8	50	2.0	0.03	PAVED ROAD, WYNOLA Rd
	55.190	40	8	36	1.4	0.02	PAVED ROAD, FARLEY Rd
	55.430	27	8	24	0.9	0.01	PAVED DRIVEWAY
	55.880	41	8	36	1.4	0.02	PAVED ROAD, NEWMAN WAY
	56.800	27	8	24	0.9	0.01	PAVED DRIVEWAY
	57.300	92	8	82	3.2	0.04	PAVED DRIVEWAY
	57.630	44	8	39	1.5	0.02	PAVED DRIVEWAY
	57.770	49	8	44	1.7	0.02	PAVED DRIVEWAY
WB+EB Rte 78	57.900	66	113	829	*	*	CONFORM AT PM 57.9
SUBTOTAL 3				1,926	40.8	0.57	
SUBTOTAL 2				1,198	44.9	0.62	
SUBTOTAL 1				4,003			
TOTAL				7,127 **	85.7	1.19	

* INCLUDED IN ROADWAY QUANTITIES
** THE CONFORM VALUES FOR CURBS & GUTTER & DRAINAGE INLETS ARE INCLUDED

SUMMARY OF QUANTITIES

Q-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE

FUNCTIONAL SUPERVISOR: ALBERTO GAYON
CALCULATED-DESIGNED BY: HECTOR GRACIA
CHECKED BY: DARYOOSH SHIMI
REVISED BY
DATE REVISED

LAST REVISION 12-16-10 | DATE PLOTTED => 20-JAN-2011 | TIME PLOTTED => 13:43

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	78	45.2/57.9	11	14

12-27-10
REGISTERED CIVIL ENGINEER DATE

01-18-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DARYOOSH SHIMI No. 42953 Exp. 3-31-12 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.

ROADWAY QUANTITIES

ROUTE	LOCATION (PM)	LOCATION (PM)	DIRECTION	LENGTH (N) FT	TRAVEL WAYS & SHOULDER WIDTH (N) FT	HMA(BWC-G) (TON)	ASPHALTIC EMULSION MEMBRANE (BWC) (TON)
78	45.200	45.350	EB	792.0	26	91	1.2
	45.350	45.700		1,848.0	14	115	1.6
	45.700	46.400		3,696.0	22	361	4.9
	46.400	46.480		422.4	16	30	0.4
	46.480	46.800		1,689.6	15	112	1.5
	46.800	47.340		2,851.2	15	183	2.5
	47.340	47.430		475.2	15	32	0.4
	47.430	50.990		18,796.8	13	1,084	14.7
	50.990	51.059		364.3	20	32	0.4
	51.059	51.110		269.3	32	38	0.5
	51.110	51.211		533.3	24	57	0.8
	51.211	51.895		3,611.5	16	256	3.5
	51.895	51.955		316.8	43	60	0.8
	51.955	51.995		211.2	15	14	0.2
	51.995	52.075		422.4	24	45	0.6
	52.075	53.071		5,258.9	16	362	4.9
	53.071	54.057		5,206.1	14	323	4.4
	54.057	54.117		316.8	20	28	0.4
	54.117	54.630		2,708.6	14	168	2.3
	54.630	55.575		4,989.6	15	332	4.5
	55.575	55.656		427.7	20	38	0.5
	55.656	55.786		686.4	16	49	0.7
	55.786	55.887		533.3	20	47	0.6
	55.887	56.028		744.5	16	53	0.7
	56.028	56.088		316.8	20	28	0.4
	56.088	56.923		4,408.8	16	313	4.2
	56.923	56.983		316.8	14	20	0.3
	56.983	57.556		3,025.4	15	201	2.7
	57.556	57.757		1,061.3	15	71	1.0
	57.757	57.808		269.3	20	24	0.3
	57.808	57.900		485.8	28	60	0.8
	45.206	45.247	WB	216.5	25	24	0.3
	45.247	45.318		374.9	12	20	0.3
	45.318	45.410		485.8	16	34	0.5
	45.410	45.828		2,207.0	13	127	1.7
	45.828	46.327		2,634.7	20	234	3.2
	46.327	46.419		485.8	14	30	0.4
	46.419	46.480		322.1	16	23	0.3
	46.480	46.571		480.5	13	28	0.4
	46.571	46.863		1,541.8	16	109	1.5
	46.863	47.044		955.7	15	64	0.9
	47.044	47.215		902.9	16	64	0.9
	47.215	47.437		1,172.2	14	73	1.0
	47.437	47.538		533.3	13	31	0.4
					SUBTOTAL 1	5,488	74.5

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

ROADWAY QUANTITIES

ROUTE	LOCATION (PM)	LOCATION (PM)	DIRECTION	LENGTH (N) FT	TRAVELED WAYS & SHOULDER WIDTH (N) FT	HMA(BWC-G) (TON)	ASPHALTIC EMULSION MEMBRANE (BWC) (TON)
78	47.538	47.558	WB	105.6	15	7	0.1
	47.558	47.649		480.5	12	26	0.3
	47.649	47.699		264.0	20	23	0.3
	47.699	48.505		4,255.7	12	227	3.1
	48.505	50.298		9,467.0	13	546	7.4
	50.298	51.005		3,733.0	12	199	2.7
	51.005	51.110		554.4	16	39	0.5
	51.110	51.130		105.6	18	8	0.1
	51.130	51.150		105.6	30	14	0.2
	51.150	51.241		480.5	22	47	0.6
	51.241	51.502		1,378.1	16	98	1.3
	51.502	52.267		4,039.2	20	358	4.9
	52.267	52.749		2,545.0	16	181	2.5
	52.749	53.142		2,075.0	18	166	2.2
	53.142	53.252		580.8	20	52	0.7
	53.252	53.443		1,008.5	14	63	0.8
	53.443	53.473		158.4	16	11	0.2
	53.473	53.544		374.9	20	33	0.5
	53.544	53.856		1,647.4	14	102	1.4
	53.856	54.127		1,430.9	20	127	1.7
	54.127	54.278		797.3	14	50	0.7
	54.278	54.359		427.7	20	38	0.5
	54.359	54.650		1,536.5	12	82	1.1
	54.650	55.073		2,233.4	15	149	2.0
	55.073	55.545		2,492.2	16	177	2.4
	55.545	55.575		158.4	24	17	0.2
	55.575	55.656		427.7	16	30	0.4
	55.656	55.746		475.2	20	42	0.6
	55.746	55.797		269.3	18	22	0.3
	55.797	55.857		316.8	22	31	0.4
	55.857	56.400		2,867.0	16	204	2.8
	56.400	56.591		1,008.5	18	81	1.1
	56.591	56.662		374.9	20	33	0.5
	56.662	56.873		1,114.1	16	79	1.1
	56.873	56.903		158.4	14	10	0.1
	56.903	56.943		211.2	25	23	0.3
	56.943	56.983		211.2	13	12	0.2
	56.983	57.034		269.3	20	24	0.3
	57.034	57.305		1,430.9	16	102	1.4
	57.305	57.366		322.1	14	20	0.3
	57.366	57.748		2,017.0	16	143	1.9
	57.748	57.838		475.2	20	42	0.6
	57.838	57.900		327.4	38	55	0.7
					CROSS STREETS & DRIVEWAYS	86	1.2
					SUBTOTAL 2	3,879	52.6
					SUBTOTAL 1	5,488	74.5
					GRAND TOTAL	9,367	127.1

MILEPOST MARKER

ROUTE	DIRECTION	PM	EACH
78	EB	45.5	1
		46.0	1
		46.5	1
		47.0	1
		47.5	1
		49.5	1
		50.5	1
		51.0	1
		51.5	1
		52.0	1
		52.5	1
		53.0	1
		53.5	1
		54.0	1
		54.5	1
		55.0	1
		55.5	1
		56.5	1
		57.5	1
	WB	57.5	1
		57.0	1
		56.0	1
		55.5	1
		55.0	1
		54.5	1
		54.0	1
		53.0	1
		52.0	1
		51.5	1
		51.0	1
		50.0	1
		49.0	1
		48.5	1
		48.0	1
		47.5	1
		47.0	1
		46.0	1
		45.5	1
		TOTAL	38

SUMMARY OF QUANTITIES

Q-3

REVISED BY | DATE REVISED
HECTOR GRACIA | DARYOOSH SHIMI
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR | ALBERTO GAYON
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE

LAST REVISION 01-05-11 | DATE PLOTTED => 20-JAN-2011 | TIME PLOTTED => 13:43

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	78	45.2/57.9	12	14

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

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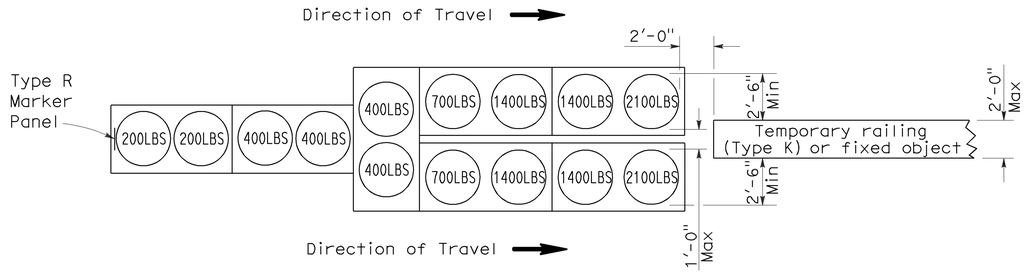
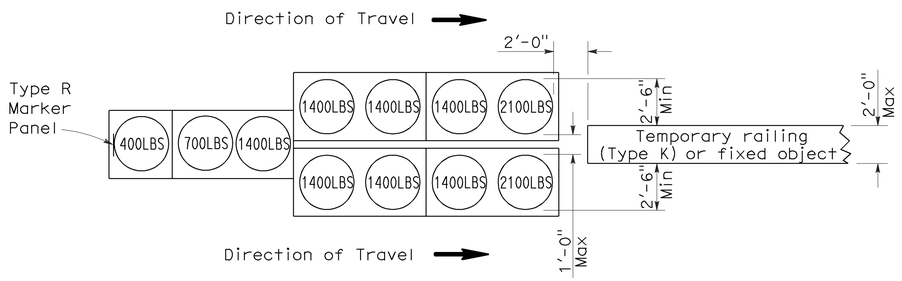
To accompany plans dated 01-18-11



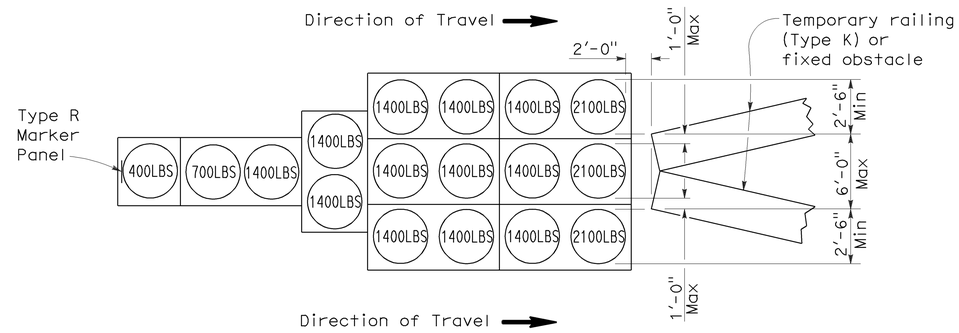
ARRAY 'TU14'

Approach speed 45 mph or more



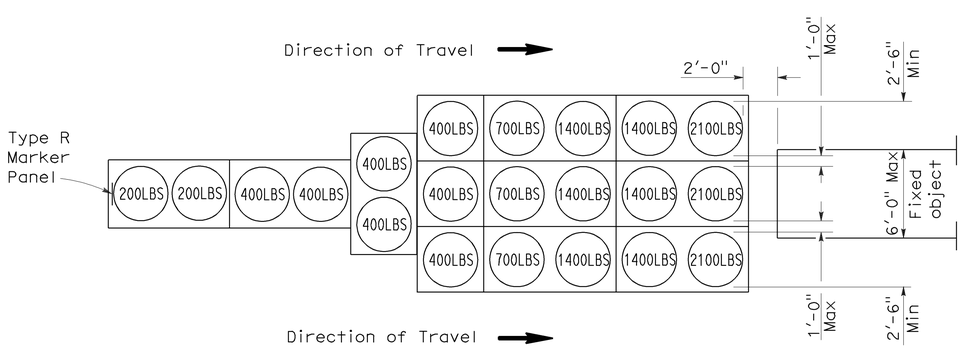
ARRAY 'TU11'

Approach speed less than 45 mph



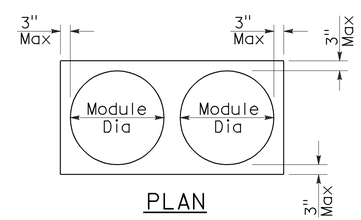
ARRAY 'TU17'

Approach speed less than 45 mph

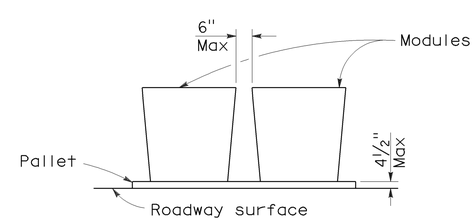


ARRAY 'TU21'

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 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	78	45.2/57.9	13	14

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

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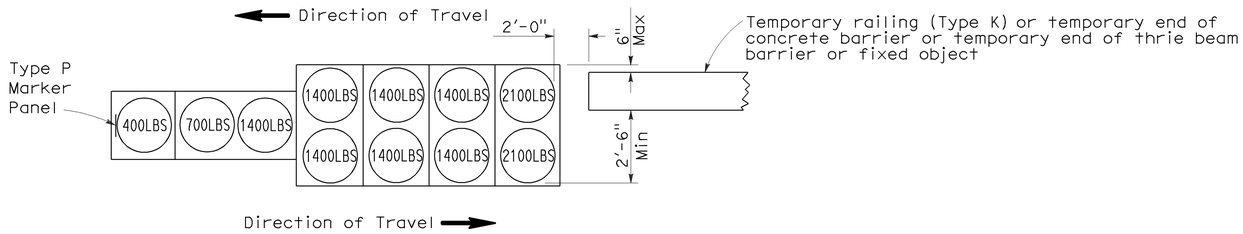
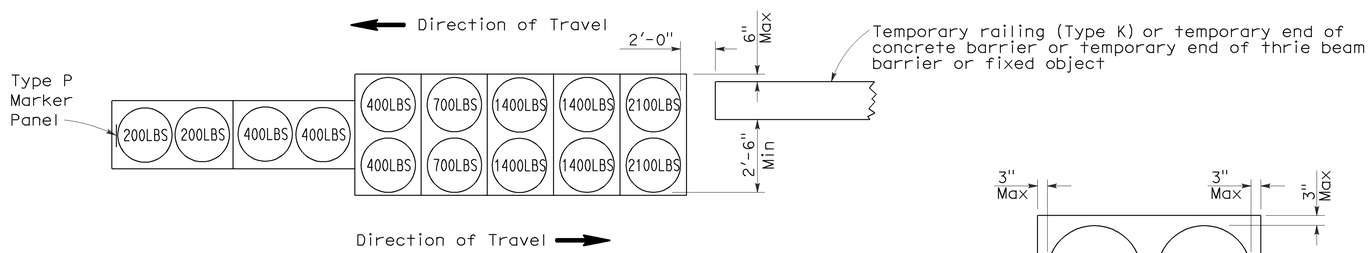
To accompany plans dated 01-18-11



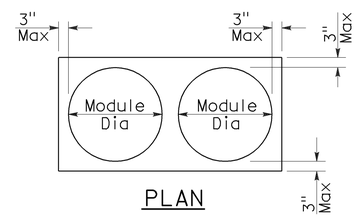
ARRAY 'TB11'

Approach speed less than 45 mph

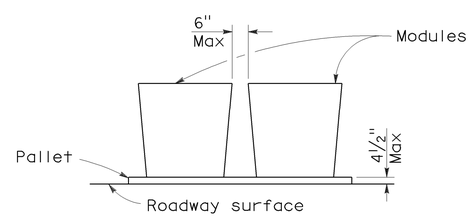


ARRAY 'TB14'

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

5-15-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	78	45.2/57.9	14	14

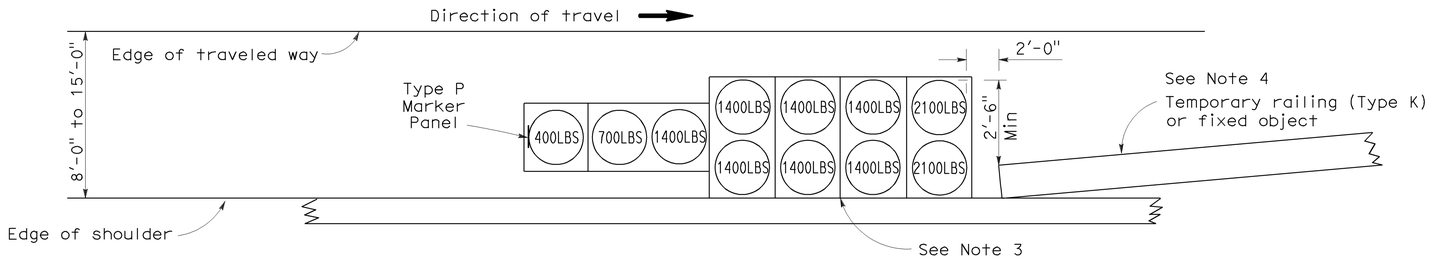
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

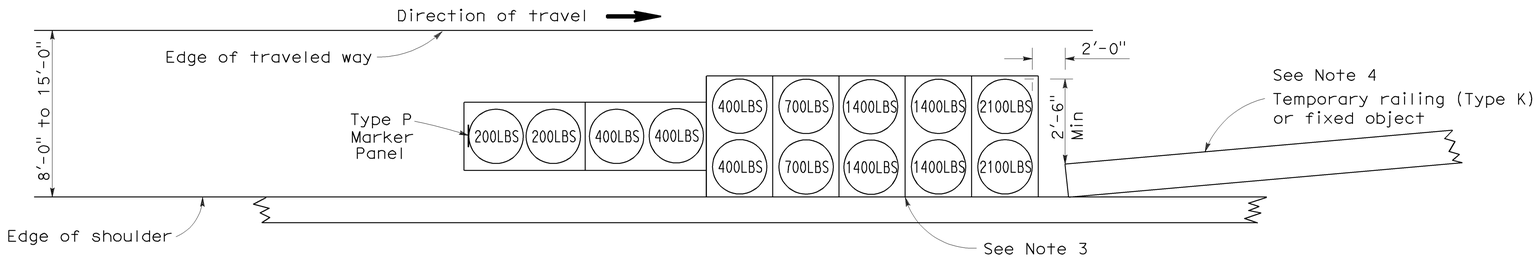
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 01-18-11



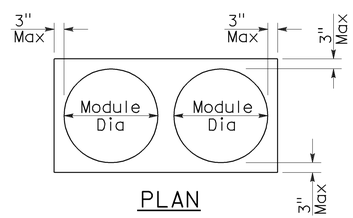
ARRAY 'TS11'

Approach speed less than 45 mph
See Note 9

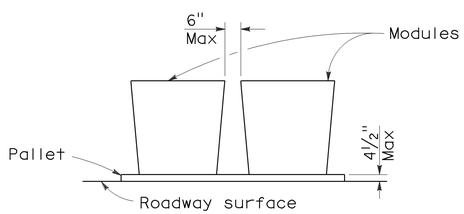


ARRAY 'TS14'

Approach speed 45 mph or more
See Note 9



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 11

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. 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.
4. 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.
5. Temporary crash cushion arrays shall not encroach on the traveled way.
6. Arrays for median shoulders shall conform to details shown on this plan for outside shoulders.
7. Place the Type P marker panel so that the bottom of the panel rests upon the pallet and faces traffic.
8. Refer to Standard Plan A73B for marker details.
9. 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.
10. Approach speeds indicated conform to NCHRP 350 Report criteria.
11. 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

5-15-08