Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	79	L0.3/10.0	1	20

INDEX OF PLANS

SHEET NO.	DESCRIPTION
1	TITLE AND LOCATION MAP
2-3	TYPICAL CROSS SECTIONS
4	CONSTRUCTION DETAILS
5	CONSTRUCTION AREA SIGNS
6-7	PAVEMENT DELINEATION DETAILS AND QUANTITIES
8-10	SUMMARY OF QUANTITIES
11-20	REVISED AND NEW STANDARD PLANS

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

STATE OF CALIFORNIA

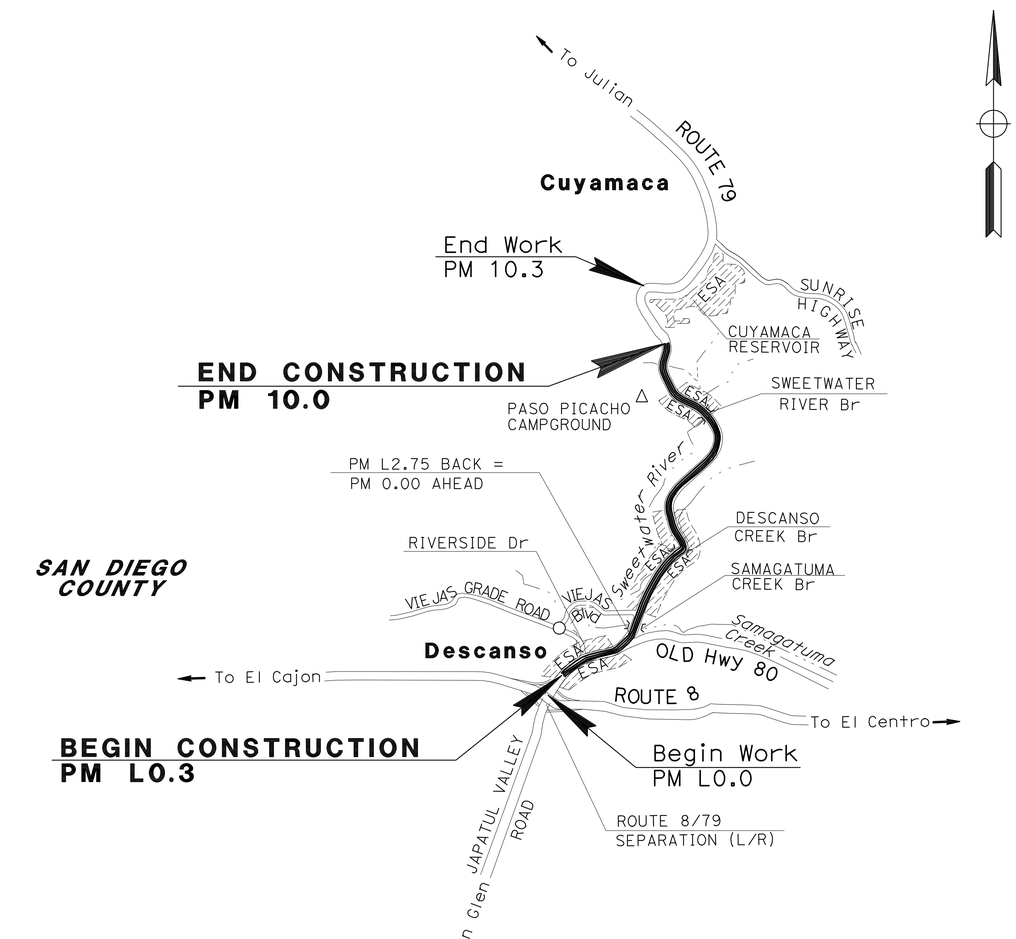
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON

STATE HIGHWAY

IN SAN DIEGO COUNTY NEAR DESCANSO FROM 0.3 MILE NORTH OF ROUTE 8/79 SEPARATION TO 0.7 MILE NORTH OF PASO PICACHO CAMPGROUND

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



ESA ENVIRONMENTALLY SENSITIVE AREA

NO SCALE

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

PROJECT MANAGER ALBERTO GAYON

DESIGN ENGINEER MIGUEL H. VASQUEZ

PROJECT ENGINEER REGISTERED CIVIL ENGINEER — DATE 02-28-11

REGISTERED PROFESSIONAL ENGINEER MIGUEL H. VASQUEZ No. C56329 Exp. 12-31-12 CIVIL STATE OF CALIFORNIA

January 30, 2012
PLANS APPROVAL DATE

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

CONTRACT No.	11-2M2004
PROJECT ID	1100020098

LAST REVISION 03-03-11 DATE PLOTTED => 30-JAN-2012 TIME PLOTTED => 14:47

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	79	L0.3/10.0	2	20

REGISTERED CIVIL ENGINEER 02-28-11 DATE

01-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MIGUEL H. VASQUEZ No. C56329 Exp. 12-31-12 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 SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
3. VEHICLE PULL-OUTS TO BE OVERLAYED AT LOCATIONS - NB PM 3.67, NB PM 5.30, NB PM 5.89, NB PM 6.56, NB PM 7.28, NB PM 7.60. SEE QUANTITY SHEET Q-2 FOR DIMENSIONS.
4. FOR LOCATION AND TYPE OF HMA DIKE AND RUMBLE STRIP SEE QUANTITY SHEETS.
5. RUMBLE STRIP SHALL NOT BE PLACED AT INTERSECTIONS OR BRIDGES.
6. FOG SEAL COAT TO BE APPLIED TO ALL HMA/AC SHOULDERS, DIKES, AND RUMBLE STRIPS.
7. SEE CONSTRUCTION DETAILS SHEET C-1 FOR SHOULDER BACKING DETAIL.

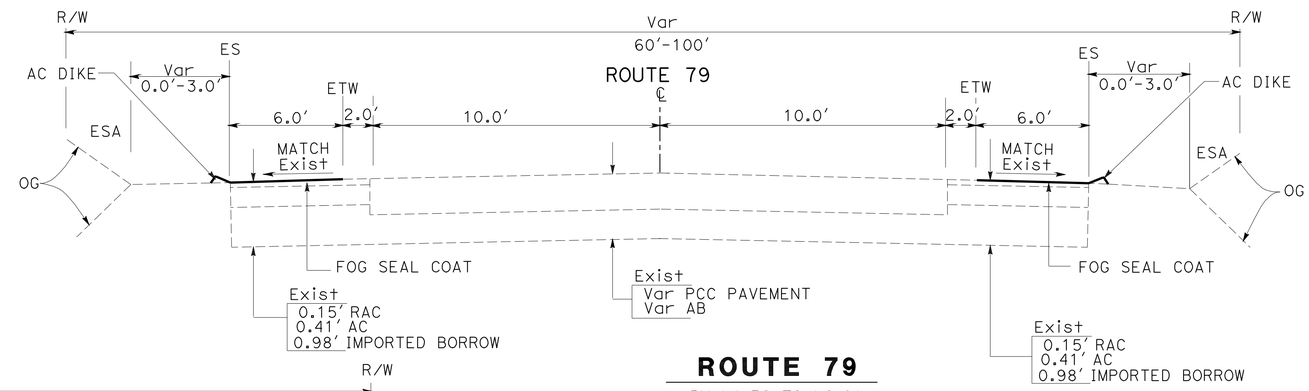
DESIGN DESIGNATION (ROUTE 79)

2009 ADT = 2570 D = 53%
2020 ADT = 3670 T= 8%
DHV = 590 V = NA

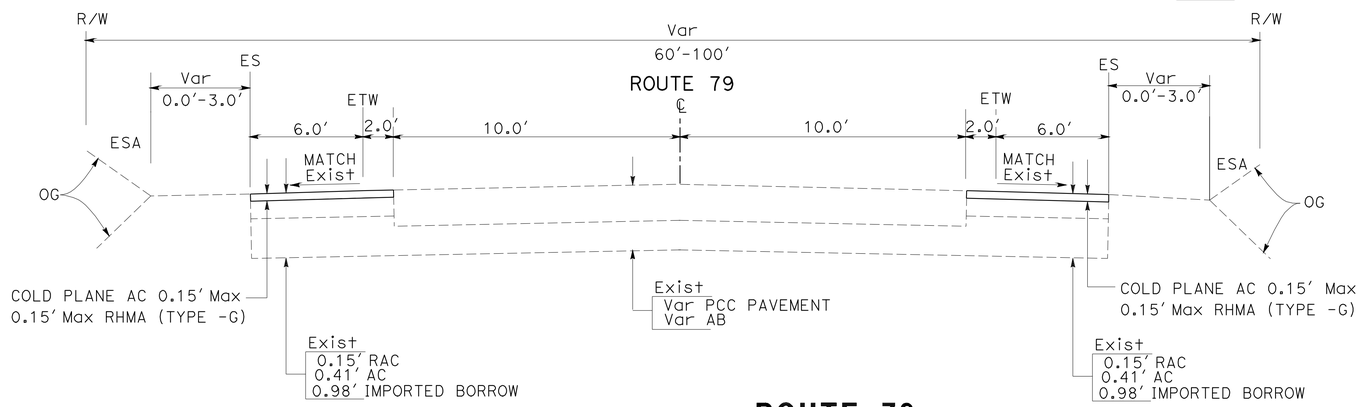
2009 ADT = 1200 D = 53%
2020 ADT = 1960 T= 8%
DHV = 380 V = NA

LEGEND:

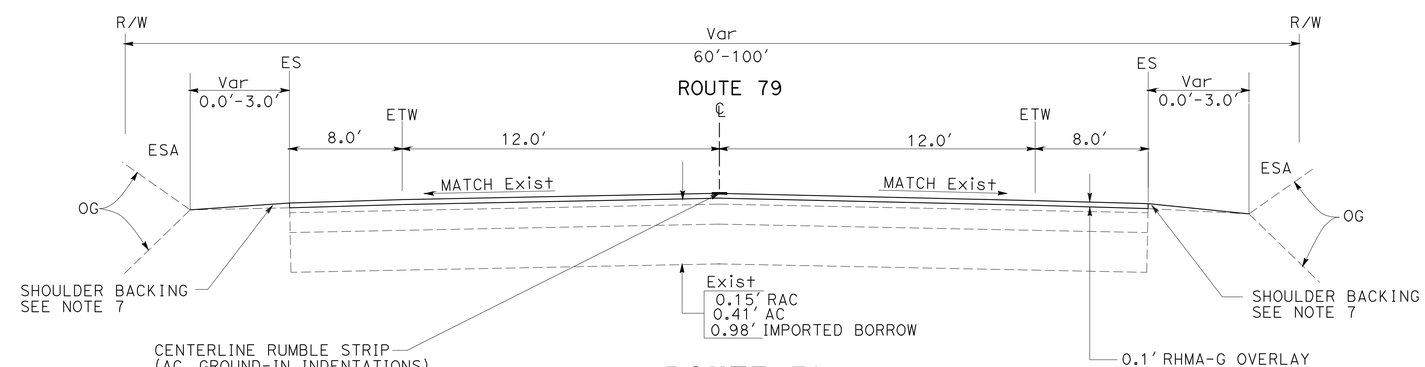
ESA = ENVIRONMENTALLY SENSITIVE AREA
RAC = RUBBERIZED ASPHALT CONCRETE
RHMA-G = RUBBERIZED HOT MIX ASPHALT (TYPE G)



ROUTE 79
PM L1.32 TO L2.61



ROUTE 79
PM L1.15 TO L1.32



ROUTE 79
PM L0.3 TO L1.15

TYPICAL CROSS SECTIONS

NO SCALE

X-1

REVISED BY | DATE REVISED
EYERUSALEM TADESSE | MICHAEL H. VASQUEZ
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR | ALBERTO GAYON

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
MAINTENANCE

LAST REVISION 03-03-11 | DATE PLOTTED => 30-JAN-2012 | TIME PLOTTED => 14:47

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	79	L0.3/10.0	3	20

REGISTERED CIVIL ENGINEER 02-28-11 DATE

01-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MIGUEL H. VASQUEZ No. C56329 Exp. 12-31-12 CIVIL STATE OF CALIFORNIA

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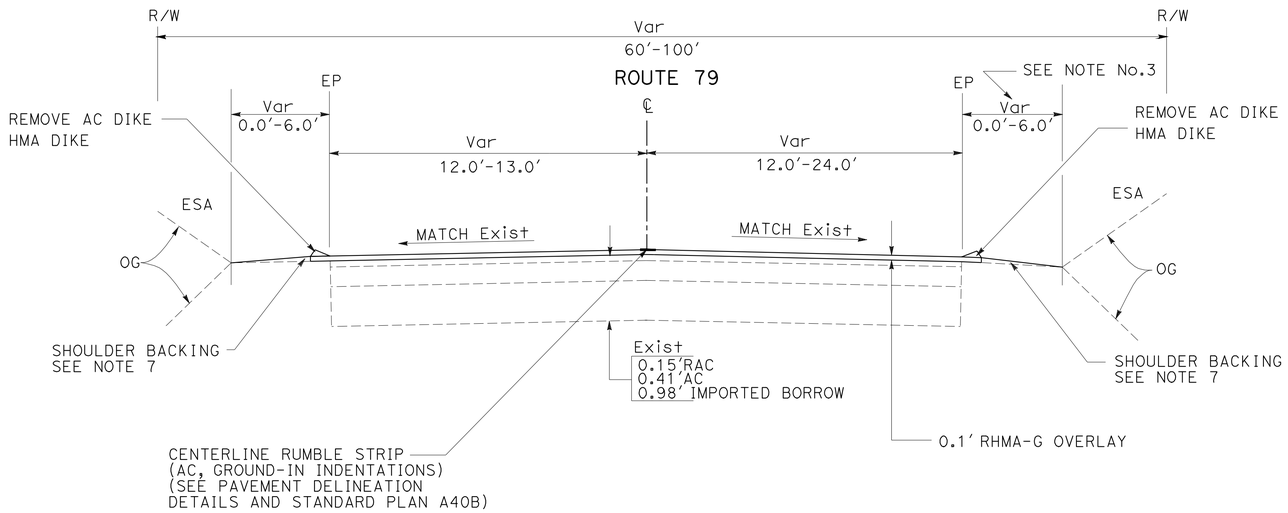
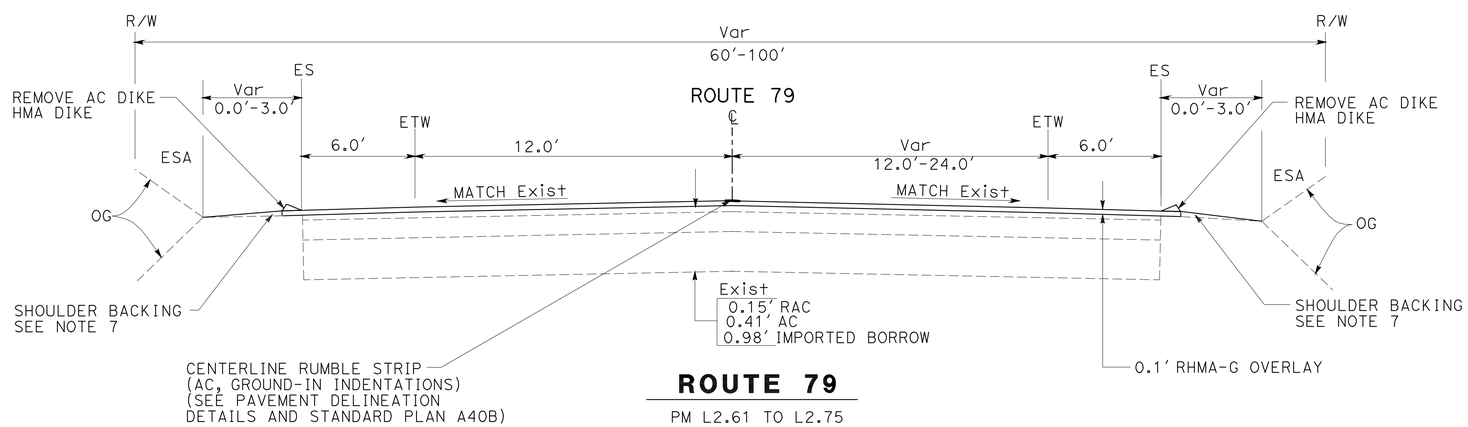


ROUTE 79

PM 0.00 TO 10.00



ROUTE 79

PM L2.61 TO L2.75

TYPICAL CROSS SECTIONS

NO SCALE

X-2

REVISED BY | DATE REVISED

EYERUSALEM TADESSE | MICHAEL H. VASQUEZ

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FUNCTIONAL SUPERVISOR: ALBERTO GAYON

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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LAST REVISION 03-03-11 | DATE PLOTTED => 30-JAN-2012 | TIME PLOTTED => 14:47

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	79	L0.3/10.0	4	20

REGISTERED CIVIL ENGINEER 02-28-11 DATE

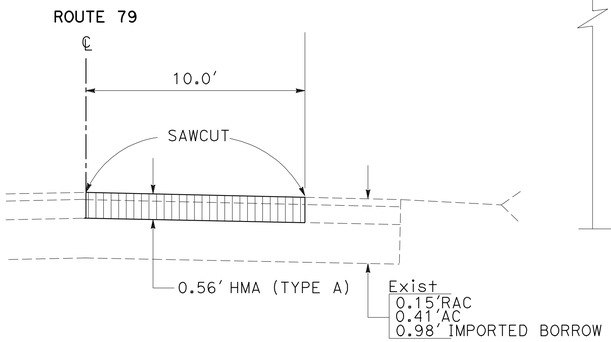
01-30-12
PLANS APPROVAL DATE

MIGUEL H. VASQUEZ No. C56329 Exp. 12-31-12 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

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

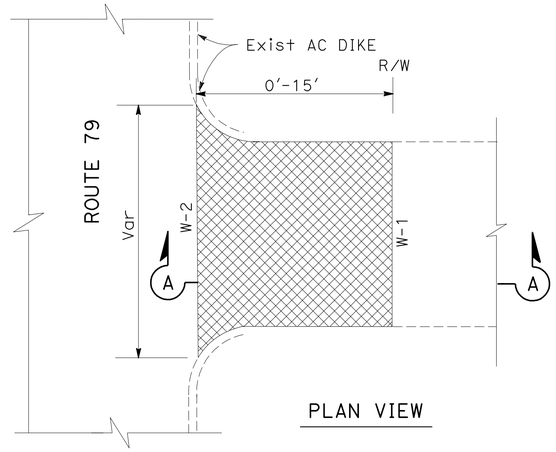
NOTES:

1. SEE SUMMARY OF QUANTITIES FOR REPLACE CONCRETE PAVEMENT AND CROSS STREET LOCATIONS AND QUANTITIES.
2. FOR LENGTH OF AC REPLACEMENT SEE QUANTITIES SHEETS.

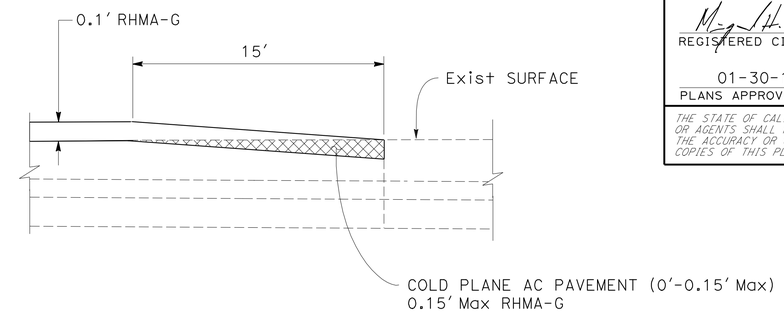


REPLACE AC SURFACING

PM 0.13

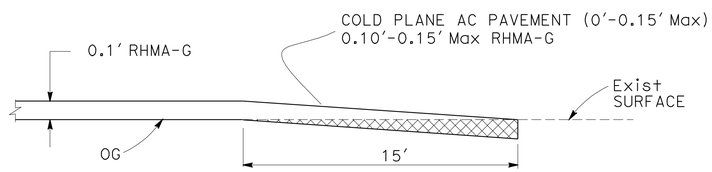


PLAN VIEW

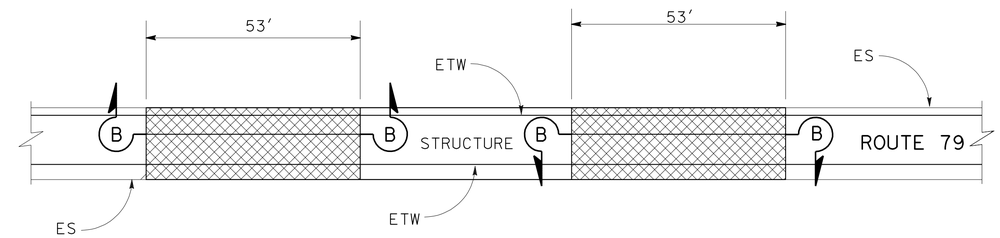


SECTION A-A

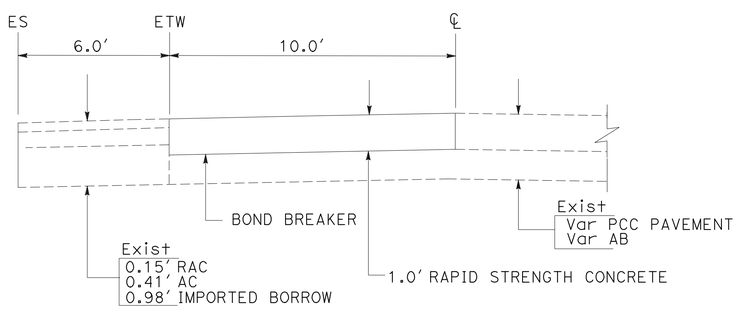
INTERSECTION AND DRIVEWAY CONFORM DETAIL



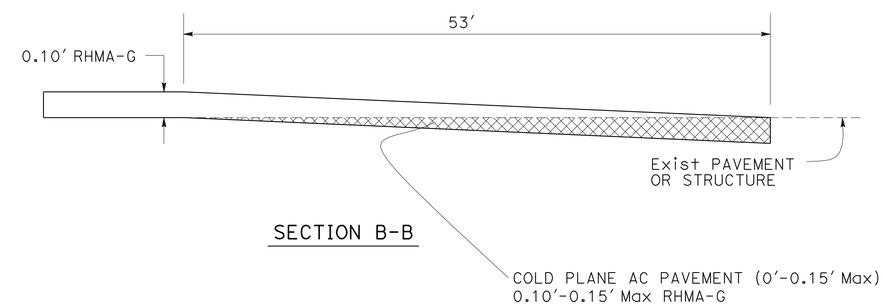
BEGIN/END ROADWAY CONFORM DETAIL



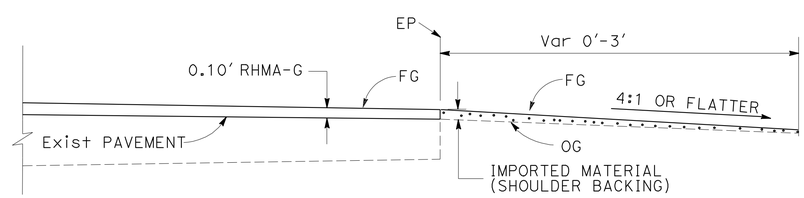
COLD PLANE CONFORM DETAILS AT STRUCTURES



TYPICAL SLAB REPLACEMENT



SECTION B-B



SHOULDER BACKING ROADWAY DETAIL

LEGEND:

- COLD PLANE AC PAVEMENT (0′-0.15′ Max) 0.15′ Max RHMA-G
- REPLACE AC SURFACING

CONSTRUCTION DETAILS

NO SCALE

C-1

REVISED BY | DATE REVISED
EYERUSALEM TADESSE | MICHAEL H. VASQUEZ
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR | ALBERTO GAYON
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | MAINTENANCE
Caltrans

LAST REVISION 03-03-11 | DATE PLOTTED => 30-JAN-2012 | TIME PLOTTED => 14:47

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	79	L0.3/10.0	5	20

REGISTERED CIVIL ENGINEER 02-28-11 DATE

01-30-12
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.

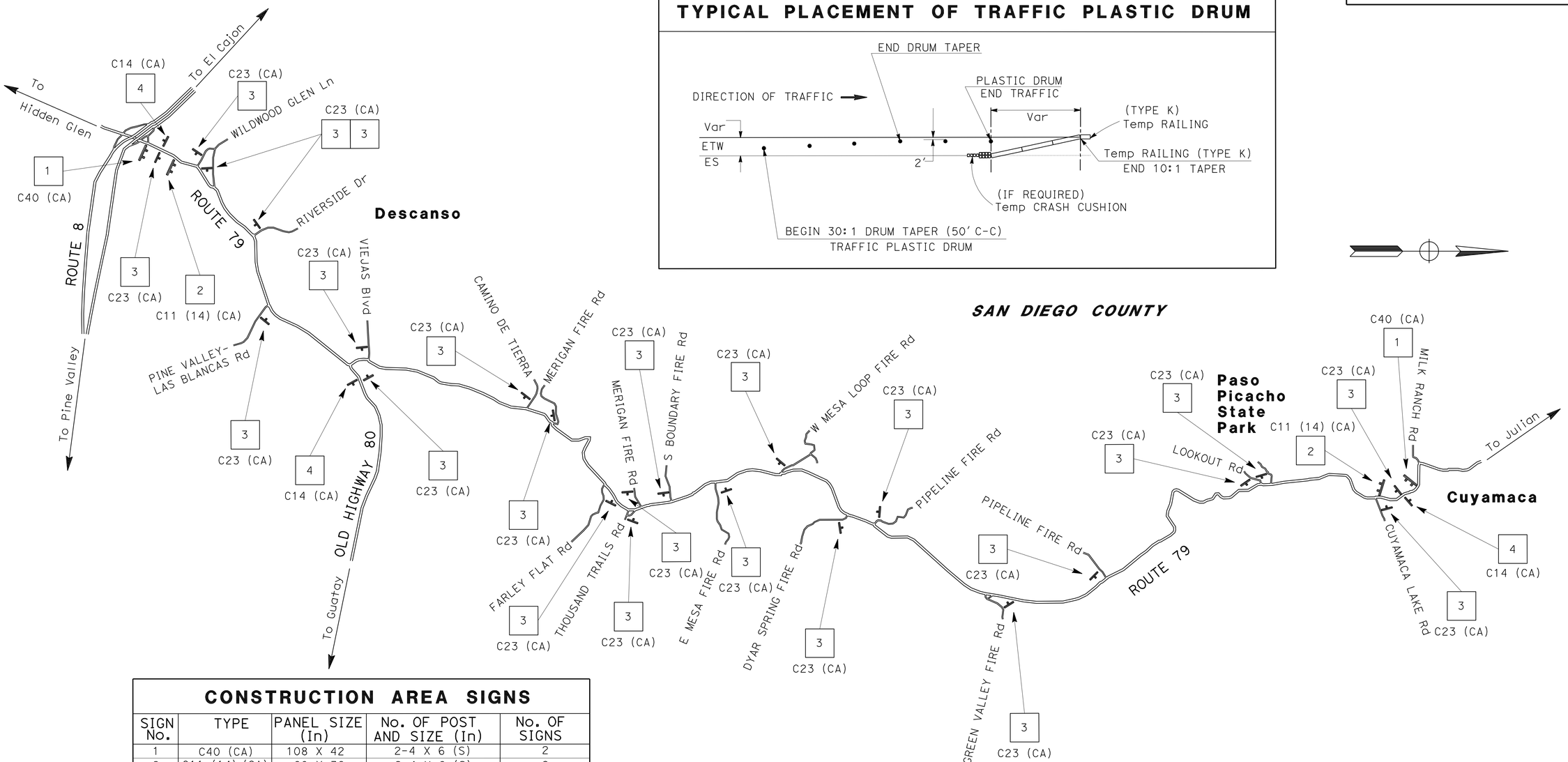
NOTES:

1. EXACT LOCATION OF CONSTRUCTION AREA SIGNS WILL 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 THE SIGN POSTS IN CONSULTATION WITH THE ENGINEER.

LEGEND:

XX = CONSTRUCTION AREA SIGN

TYPICAL PLACEMENT OF TRAFFIC PLASTIC DRUM



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)	2
2	C11 (14) (CA)	60 X 36	2-4 X 6 (S)	2
3	C23 (CA)	48 X 48	1-4 X 6 (S)	23
4	C14 (CA)	48 X 24	1-4 X 4 (S)	3
			TOTAL	30

(S) DENOTES STATIONARY MOUNTED SIGN

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

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

LAST REVISION 03-03-11
DATE PLOTTED => 30-JAN-2012
TIME PLOTTED => 14:47

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	79	L0.3/10.0	6	20

02-28-11
REGISTERED CIVIL ENGINEER DATE

01-30-12
PLANS APPROVAL DATE

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

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LEGEND:

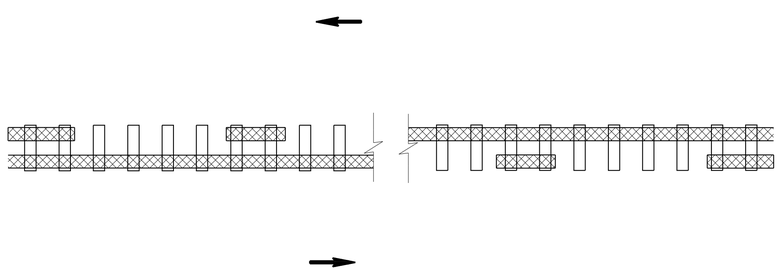
= DIRECTION OF TRAVEL

= CENTERLINE RUMBLE STRIP (AC, GROUND-IN INDENTATIONS)

= 4" YELLOW TRAFFIC STRIPE

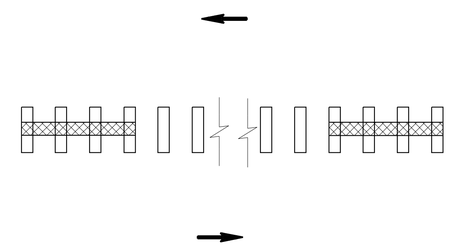
NOTES:

1. EXISTING CENTERLINE STRIPING SHALL BE REMOVED.
2. REPLACE EXISTING STRIPING IN KIND.
3. SEE STANDARD PLAN A40B FOR CENTERLINE RUMBLE STRIP (AC, GROUND-IN INDENTATION) DIMENSIONS.
4. CENTERLINE RUMBLE STRIP (AC, GROUND-IN INDENTATIONS) SHALL NOT BE PLACED IN INTERSECTIONS AND DRIVEWAYS.



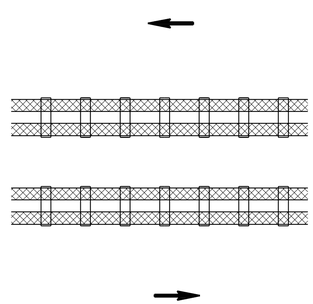
DETAIL 18 WITH CENTERLINE RUMBLE STRIP

PM L0.30/L0.32, L0.43/L0.56, 5.60/5.74, 5.94/6.16



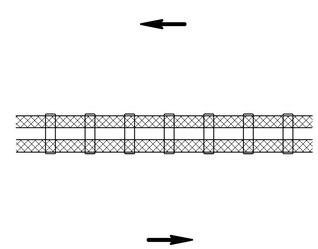
DETAIL 5 WITH CENTERLINE RUMBLE STRIP

PM L0.32/L0.43, 5.74/5.94



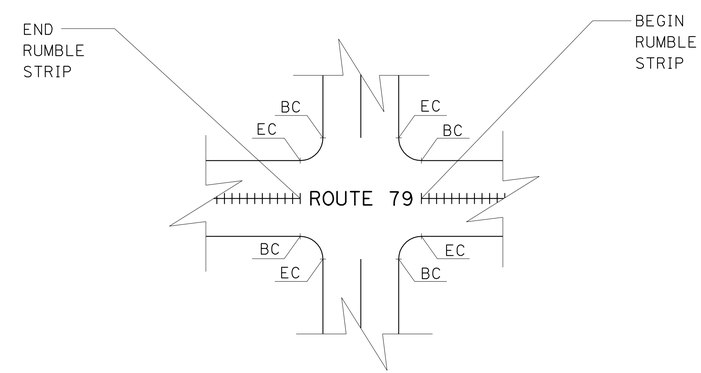
DETAIL 28 WITH RUMBLE STRIP

PM 4.31/4.35



DETAIL 21 WITH RUMBLE STRIP

PM L0.56/L2.75, 0.00/4.30, 4.35/5.60, 6.16/10.00



TYPICAL RUMBLE STRIP PLACEMENT AT INTERSECTION

PAVEMENT DELINEATION DETAILS

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 T. ADIBI
REVISED BY
DATE REVISED

LAST REVISION 03-03-11
DATE PLOTTED => 30-JAN-2012
TIME PLOTTED => 14:47

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	79	L0.3/10.0	7	20

REGISTERED CIVIL ENGINEER 02-28-11 DATE

01-30-12
PLANS APPROVAL DATE

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

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TRAFFIC STRIPE SUMMARY

ROUTE	DESCRIPTION	POSTMILE	DETAIL	PAINT (LF) (1-COAT)	TWO-COMPONENT PAINT (LF) 4" SOLID	4" (BROKEN 36-12)	8" SOLID	REMARKS
79	℄	L0.3/L2.75	5			581		
			18	792*	792	792		L = 792
			21	11,458*	22,916			L = 11,458
			38A				80	
	NB/SB ETW		27B		25,872			
	℄ AND MEDIAN	0.0/10.0	5			1,056		
			18	1,901*	1,901	1,901		L = 1,901
			21	49,964*	99,928			L = 49,964
			28	424*	848			L = 212
			38A				80	
	NB/SB ETW		27B		105,600			
			TOTAL	64,359*	257,857	4,330	160	

* - BLACK PAINT

NOTE:

1. PAVEMENT DELINEATION SHALL BE REPLACED IN-KIND, UNLESS NOTED OTHERWISE.
2. ALL PAINT (2-COAT) STRIPE WILL BE REPLACED WITH TWO-COMPONENT PAINT TRAFFIC STRIPE.

TWO-COMPONENT PAINT PAVEMENT MARKING

ROUTE	DESCRIPTION	POSTMILE	TYPE III(L) ARROW SQFT	STOP SQFT	AHEAD SQFT	LIMIT LINE 12 INCH SQFT
79	INTERSECTIONS	L0.3/L2.75	42			
79	INTERSECTIONS	0.0/10.0	42	198	31	223
		SUBTOTAL	84	198	31	223
		TOTAL	536			

REMOVE PAINTED TRAFFIC STRIPE

ROUTE	DESCRIPTION	POSTMILE	DETAIL	LF
79	ETW	L0.3/L2.75	27B	24,076
		0.0/10.0	27B	105,600
			TOTAL	129,676

REMOVE THERMOPLASTIC PAVEMENT MARKING

ROUTE	DESCRIPTION	POSTMILE	TYPE	SQFT
79	℄ AND MEDIAN	L0.3/L2.75	TYPE III(L) ARROW	42
		0.0/10.0	TYPE III(L) ARROW	42
			STOP	198
			AHEAD	31
			LIMIT LINE	223
			TOTAL	536

REMOVE THERMOPLASTIC TRAFFIC STRIPE

ROUTE	DESCRIPTION	POSTMILE	DETAIL	LF	REMARKS
79	℄ AND MEDIAN	L0.3/L2.75	5	150	L = 581
			18	990	L = 792
			21	22,916	L = 11,458
			38A	160	L = 80
		0.0/10.0	5	265	L = 1,056
			18	2,376	L = 1,901
			21	99,928	L = 49,964
			28	848	L = 212
			38A	160	L = 80
			TOTAL	127,793	

PAVEMENT DELINEATION QUANTITIES

PDQ-1

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC DESIGN

LAST REVISION 03-03-11 | DATE PLOTTED => 30-JAN-2012 | TIME PLOTTED => 14:47

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	79	L0.3/10.0	8	20

REGISTERED CIVIL ENGINEER DATE 02-28-11

01-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MIGUEL H. VASQUEZ No. C56329 Exp. 12-31-12 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 QUANTITIES

DIRECTION	PM BEGIN	PM END	REMOVE AC DIKE LF	PLACE HOT MIX ASPHALT DIKE [TYPE E] LF	MINOR HOT MIX ASPHALT DIKE TON	RUBBERIZED HOT MIX ASPHALT (GAP GRADED) UNDER DIKE TON	TACK COAT TON [N]	ASPHALTIC EMULSION [FOG SEAL COAT] TON
NB	L2.66	L2.70	211.20	211.20	5.33	1.98	0.02	0.02
	L2.70	L2.75	264.00	0.00	0.00	0.00	0.00	0.00
	8.32	8.33	52.80	52.80	1.33	0.49	0.00	0.00
	8.65	8.67	105.60	105.60	2.66	0.99	0.00	0.00
	8.76	8.77	52.80	52.80	1.33	0.49	0.00	0.00
SB	1.75	1.81	316.80	316.80	7.99	2.97	0.00	0.00
	L2.70	L2.75	264.00	264.00	6.66	2.47	0.02	0.02
		TOTAL	1,267.20	1,003.20	25.30	*9.39		*0.04

* QUANTITIES INCLUDED IN ROADWAY QUANTITIES TABLE

ROADWAY QUANTITIES

DIRECTION	PM BEGIN	PM END	LENGHT LF [N]	WIDTH LF [N]	DEPTH LF [N]	COLD PLANE AC PAVEMENT SQYD	RUBBERIZED HOT MIX ASPHALT (GAP GRADED) TON	TACK COAT TON	ASPHALTIC EMULSION (FOG SEAL COAT) TON	DESCRIPTION
NB/SB	L0.30	L0.31	15.00	40.00	0.15	66.67	6.33	0.03	0.01	COLD PLANE CONFORM TAPER
	L0.31	L1.14	4382.40	40.00	0.10	0.00	1,233.56	8.18	3.27	OVERLAY ES TO ES
	L1.14	L1.15	15.00	40.00	0.15	66.67	6.33	0.03	0.01	COLD PLANE BEFORE PCC CONFORM TAPER
	L1.15	L1.32	897.60	16.00	0.15	1,595.73	151.59	0.67	0.50	COLD PLANE ONLY ASPHALT CONCRETE
	L1.32	L2.61	6811.20	12.00	0.00	0.00	0.00	0.00	3.81	FOG SEAL ONLY ASPHALT CONCRETE
	L2.61	L2.62	15.00	36.00	0.15	60.00	5.70	0.01	0.01	COLD PLANE CONFORM TAPER
	L2.62	L2.72	528.00	36.00	0.10	0.00	133.76	0.89	0.30	OVERLAY ES TO ES
	L2.72	L2.74	105.60	48.00	0.10	0.00	35.67	0.24	0.06	OVERLAY ES TO ES
	L2.74	L2.75	15.00	48.00	0.15	0.00	7.60	0.03	0.01	COLD PLANE CONFORM TAPER
	0.00	0.11	580.80	24.00	0.10	0.00	98.09	0.65		OVERLAY EP TO EP
	0.11	0.12	53.00	24.00	0.15	141.33	13.43	0.06		COLD PLANE BEFORE BRIDGE
	0.12	0.13	0.00	0.00	0.00	0.00	0.00	0.00		SAMAGATUMA CREEK Br
	0.13	0.14	53.00	24.00	0.15	141.33	13.43	0.06		COLD PLANE AFTER BRIDGE
	0.14	2.55	12,724.80	24.00	0.10	0.00	2,149.08	14.25		OVERLAY EP TO EP
	2.55	2.56	53.00	24.00	0.15	141.33	13.43	0.00		COLD PLANE BEFORE BRIDGE
	2.56	2.57	0.00	0.00	0.00	0.00	0.00	0.00		DESCANSO CREEK Br
	2.57	2.58	53.00	24.00	0.15	141.33	13.43	0.00		COLD PLANE AFTER BRIDGE
	2.58	4.23	8,712.00	24.00	0.10	0.00	1,471.36	9.76		OVERLAY EP TO EP
	4.23	4.24	53.00	36.00	0.10	0.00	13.43	0.09		OVERLAY EP TO EP
	4.24	4.96	3,801.60	24.00	0.10	0.00	642.05	4.26		OVERLAY EP TO EP
	4.96	4.97	53.00	24.00	0.15	141.33	13.43	0.06		COLD PLANE BEFORE BRIDGE
	4.97	5.00	0.00	0.00	0.00	0.00	0.00	0.00		SWEETWATER RIVER Br
	5.00	5.01	53.00	24.00	0.15	141.33	13.43	0.06		COLD PLANE AFTER BRIDGE
	5.01	9.99	26,294.40	24.00	0.10	0.00	4,440.83	29.45		OVERLAY EP TO EP
	9.99	10.00	15.00	24.00	0.15	40.00	3.80	0.00		COLD PLANE CONFORM TAPER
UNDER DIKE							9.39		0.04	
VEHICLE PULL-OUTS							355.92	2.36	2.36	
CROSS STREET & DRIVEWAY						2,914.14	276.84	1.25		
TOTAL						5,591.19	11,121.91	72.39	10.38	

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

SUMMARY OF QUANTITIES

Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
MAINTENANCE

FUNCTIONAL SUPERVISOR: ALBERTO GAYON
CALCULATED-DESIGNED BY: EYERUSALEM TADESSE
CHECKED BY: MICHAEL H. VASQUEZ
REVISED BY
DATE REVISED

LAST REVISION 03-03-11
DATE PLOTTED => 30-JAN-2012
TIME PLOTTED => 14:47

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	79	L0.3/10.0	9	20

REGISTERED CIVIL ENGINEER 02-28-11 DATE

01-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MIGUEL H. VASQUEZ No. C56329 Exp. 12-31-12 CIVIL STATE OF CALIFORNIA

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VEHICLE PULL-OUTS

DIRECTION	PM	LENGTH LF [N]	WIDTH LF [N]	DEPTH LF [N]	VOLUME CY [N]	RUBBERIZED HOT MIX ASPHALT (GAP GRADED) TON	TACK COAT TON	FOG SEAL COAT TON
NB	3.67	360.00	20.00	0.10	720.36	50.69	0.34	0.34
	5.30	360.00	40.00	0.10	1,440.00	101.33	0.67	0.67
	5.89	580.77	21.00	0.10	1,219.62	85.82	0.57	0.57
	6.56	329.99	14.00	0.10	461.97	32.51	0.22	0.22
	7.28	189.99	32.00	0.10	607.97	42.78	0.28	0.28
	7.60	320.00	19.00	0.10	608.00	42.79	0.28	0.28
					TOTAL	*355.92	*2.36	*2.36

* QUANTITIES INCLUDED IN THE ROADWAY QUANTITIES TABLE.

CENTERLINE RUMBLE STRIP (AC, GROUND-IN INDENTATIONS)

DIRECTION	POST MILE	LENGTH Sta
NB/SB	L0.30-L0.64	17.95
	L0.66-L0.81	7.92
	L0.83-L1.15	16.90
	L2.61-L2.75	7.39
	0.00-0.12	6.34
	0.12-0.13	BRIDGE
	0.13-0.17	2.11
	0.19-2.56	125.14
	2.56-2.57	BRIDGE
	2.57-4.97	126.72
	4.97-5.00	BRIDGE
	5.00-6.11	58.61
	6.11-6.23	6.34
	6.24-6.26	1.06
	6.27-9.28	158.93
	9.31-10.00	36.43
	TOTAL	571.82

REPLACE ASPHALT CONCRETE SURFACING

DIRECTION	PM	WIDTH LF [N]	LENGTH LF [N]	DEPTH LF [N]	REPLACE ASPHALT CONCRETE SURFACING CY	HOT MIX ASPHALT (TYPE A) TON [N]
SB	0.13	10.00	20.00	0.56	4.15	8.0
				TOTAL	4.15	

MILEPOST MARKER

DIRECTION	PM	EACH
NB	5.5	1
NB	8.0	1
SB	5.5	1
SB	8.0	1
SB	9.0	1
	TOTAL	5

INDIVIDUAL SLAB REPLACEMENT (RSC)

DIRECTION	PM	LANE NUMBER	NUMBER OF SLABS EA [N]	LENGTH OF SLABS LF [N]	WIDTH LF [N]	DEPTH LF [N]	VOLUME CY	DOWEL BAR (DRILL & BOND) EA [N]
SB	L1.65	1	2	20.00	10.00	1.00	14.80	16
						TOTAL	14.80	

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

SUMMARY OF QUANTITIES

Q-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE

FUNCTIONAL SUPERVISOR: ALBERTO GAYON
CALCULATED-DESIGNED BY: EYERUSALEM TADESSE
CHECKED BY: MICHAEL H. VASQUEZ
REVISED BY / DATE REVISED

LAST REVISION 03-03-11
DATE PLOTTED => 30-JAN-2012
TIME PLOTTED => 14:47

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	79	L0.3/10.0	10	20

REGISTERED CIVIL ENGINEER 02-28-11 DATE

01-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MIGUEL H. VASQUEZ No. C56329 Exp. 12-31-12 CIVIL STATE OF CALIFORNIA

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SHOULDER BACKING

Rte 79	BEGIN PM	END PM	LENGTH LF [N]	WIDTH LF [N]	TON
NB	L0.3	L1.15	4488	3	97.6
	L2.61	L2.75	740	3	16.2
	0.0	10.0	52800	3	459.4
SB	L0.3	L1.15	4488	3	97.6
	L2.61	L2.75	740	3	16.2
	0.0	10.0	52800	3	459.4
				TOTAL	1146.4

CROSS STREET AND DRIVEWAY

DESCRIPTION		DIRECTION	W-1 LF [N]	W-2 LF [N]	LENGTH LF [N]	COLD PLANE AC PAVEMENT SQYD	RHMA-G TON	TACK COAT TON
DRIVEWAY	(PM L0.70)	NB	14.00	30.00	15	36.67	3.48	0.02
DRIVEWAY	(PM 0.26)		15.00	40.00	15	45.83	4.35	0.02
DRIVEWAY	(PM 0.28)		28.00	45.00	15	60.83	5.78	0.03
DRIVEWAY	(PM 0.35)		14.00	30.00	15	36.67	3.48	0.02
DRIVEWAY	(PM 0.48)		16.00	30.00	15	38.33	3.64	0.02
DRIVEWAY	(PM 0.49)		16.00	30.00	15	38.33	3.64	0.02
DRIVEWAY	(PM 0.61)		16.00	30.00	15	38.33	3.64	0.02
DRIVEWAY	(PM 0.63)		16.00	30.00	15	38.33	3.64	0.02
DRIVEWAY	(PM 0.66)		16.00	30.00	15	38.33	3.64	0.02
DRIVEWAY	(PM 1.59)		16.00	36.00	15	43.33	4.12	0.02
DRIVEWAY	(PM 4.81)		119.00	160.00	15	232.50	22.09	0.10
DRIVEWAY	(PM 4.87)		34.00	48.00	15	68.33	6.49	0.03
DRIVEWAY	(PM 4.94)		34.00	60.00	15	78.33	7.44	0.03
INTERSECTION	(PM 6.24)		35.00	64.00	15	82.50	7.84	0.03
INTERSECTION	(PM 6.26)		28.00	46.00	15	61.67	5.86	0.03
DRIVEWAY	(PM L0.36)	SB	18.00	45.00	15	52.50	4.99	0.02
DRIVEWAY	(PM L0.57)		16.00	34.00	15	41.67	3.96	0.02
INTERSECTION	(PM L0.64)		78.00	134.00	15	176.67	16.78	0.07
INTERSECTION	(PM L0.82)		74.00	116.00	15	158.33	15.04	0.07
DRIVEWAY	(PM L1.04)		32.00	65.00	15	80.83	7.68	0.03
DRIVEWAY	(PM L2.68)		92.00	150.00	15	201.67	19.16	0.08
INTERSECTION	(PM 0.19)		92.00	150.00	15	201.67	19.16	0.08
DRIVEWAY	(PM 0.29)		16.00	30.00	15	38.33	3.64	0.02
DRIVEWAY	(PM 1.52)		19.00	34.00	15	44.17	4.20	0.02
DRIVEWAY	(PM 2.63)		20.00	30.00	15	41.67	3.96	0.02
DRIVEWAY	(PM 2.94)		12.00	25.00	15	30.83	2.93	0.01
DRIVEWAY	(PM 3.00)		16.00	30.00	15	38.33	3.64	0.02
DRIVEWAY	(PM 3.16)		16.00	30.00	15	38.33	3.64	0.02
DRIVEWAY	(PM 4.12)		12.00	25.00	15	30.83	2.93	0.01
DRIVEWAY	(PM 4.24)		35.00	85.00	15	100.00	9.50	0.04
FIRE STATION/CAMPGROUND	(PM 9.20)		420.00	420.00	15	700.00	66.50	0.29
					TOTAL	*2914.14	*276.84	*1.25

* QUANTITIES ARE INCLUDED IN THE ROADWAY QUANTITIES TABLE.

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

SUMMARY OF QUANTITIES
Q-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE

FUNCTIONAL SUPERVISOR: ALBERTO GAYON
CALCULATED-DESIGNED BY / CHECKED BY: MICHAEL H. VASQUEZ
REVISED BY / DATE REVISED: EYERUSALEM TADESSE

LAST REVISION 03-03-11 | DATE PLOTTED => 30-JAN-2012 | TIME PLOTTED => 14:47

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	79	L0.3/10.0	11	20

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

May 20, 2011
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-11
CIVIL
STATE OF CALIFORNIA

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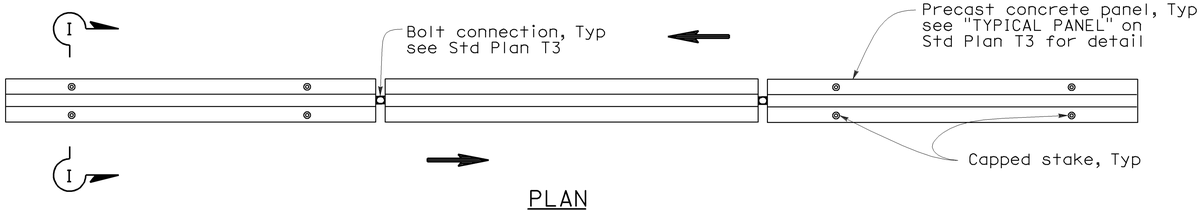
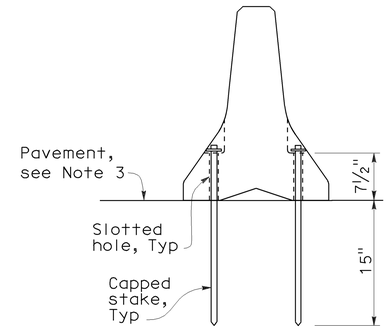
To accompany plans dated 01-30-12



PLAN

RAILING STAKING CONFIGURATION FOR TWO-WAY TRAFFIC

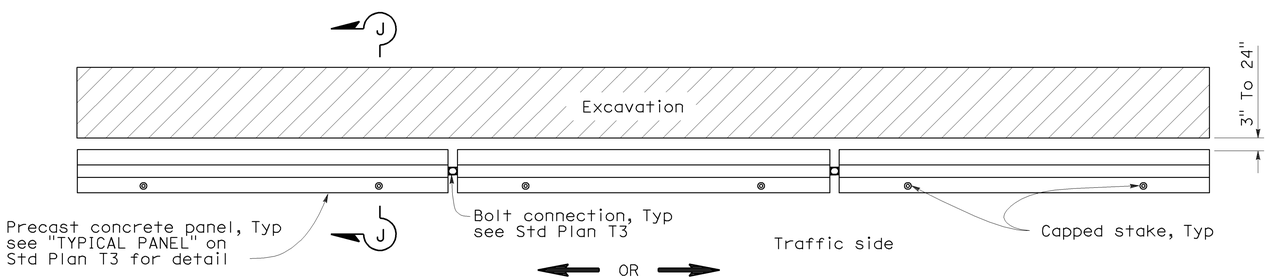
See Note 1



SECTION I-I

NOTES:

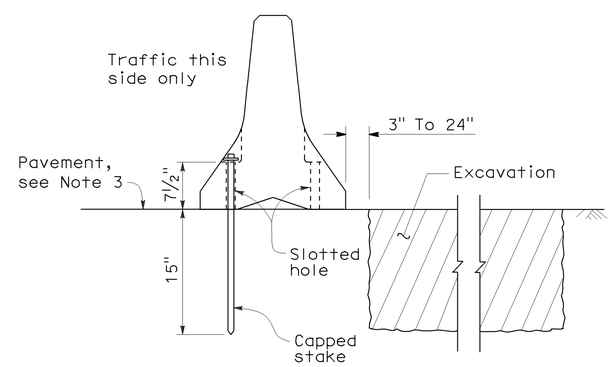
1. Where Type K Temporary Railing is placed as a temporary or long term barrier in two-way traffic on highways with less than 24" from the edge of traveled way, use four capped stakes per every other panel with end panels staked.
2. Where Type K Temporary Railing is placed 3" to 24" from the edge of an excavation on highways, use two capped stakes per panel along the traffic side.
3. Staked Type K Temporary Railing must be supported by at least 4" thick concrete, hot mix asphalt or existing asphalt concrete pavement.
4. The minimum yield strength for the washer must be 60,000 psi.
5. Direction of adjacent traffic indicated by ⟹.



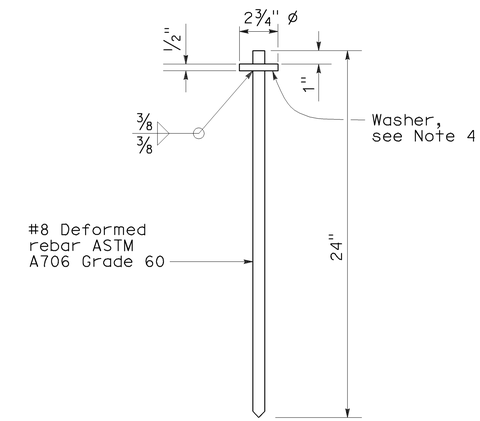
PLAN

RAILING STAKING CONFIGURATION ADJACENT TO AN EXCAVATION

See Note 2



SECTION J-J



CAPPED STAKE DETAIL

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY RAILING (TYPE K)

NO SCALE

NSP T3A DATED MAY 20, 2011 SUPPLEMENTS
THE STANDARD PLANS BOOK DATED MAY 2006.

NEW STANDARD PLAN NSP T3A

2006 NEW STANDARD PLAN NSP T3A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	79	L0.3/10.0	12	20

REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Donald E. Howe
No. C46402
Exp. 3-31-09
CIVIL
STATE OF CALIFORNIA

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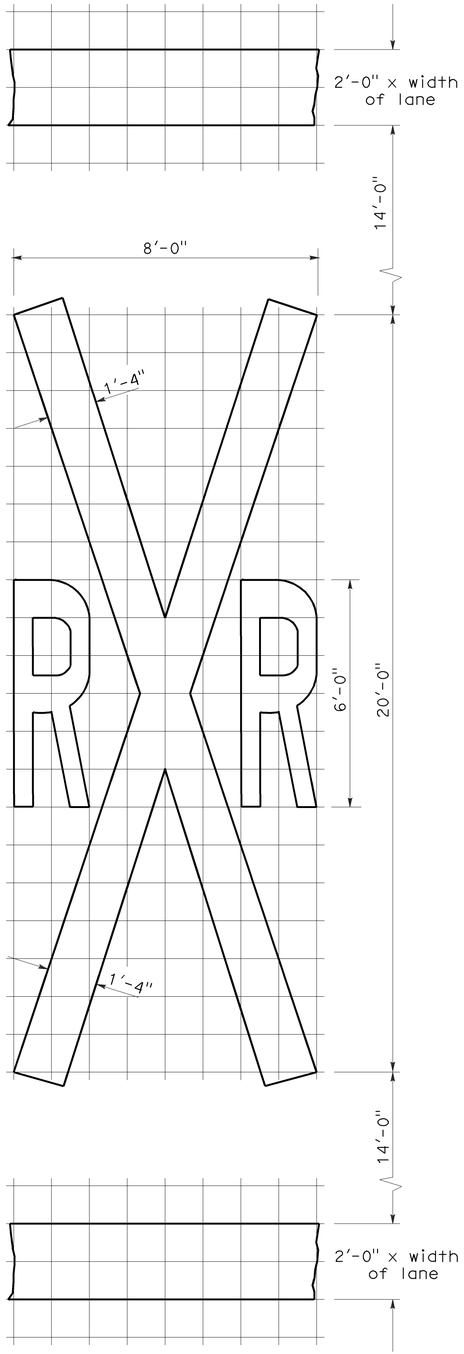
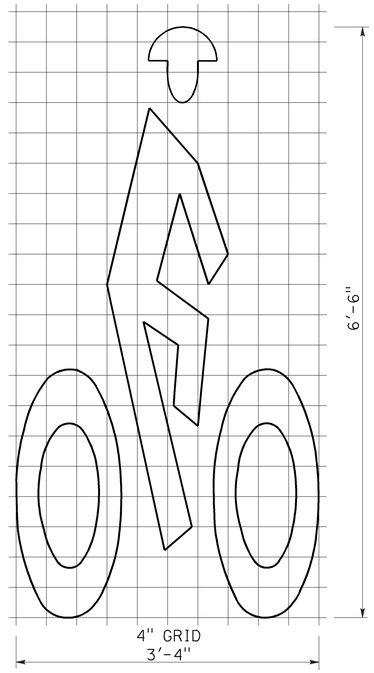
To accompany plans dated 01-30-12



1'-0" GRID
A=70 sq ft ✳

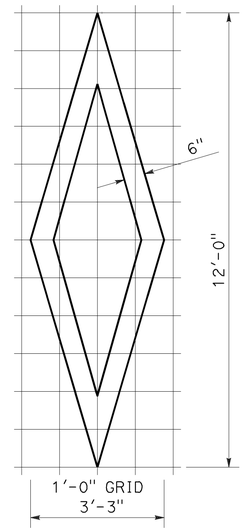
RAILROAD CROSSING SYMBOL

✳70 sq ft DOES NOT INCLUDE THE 2'-0" x VARIABLE WIDTH TRANSVERSE LINES.



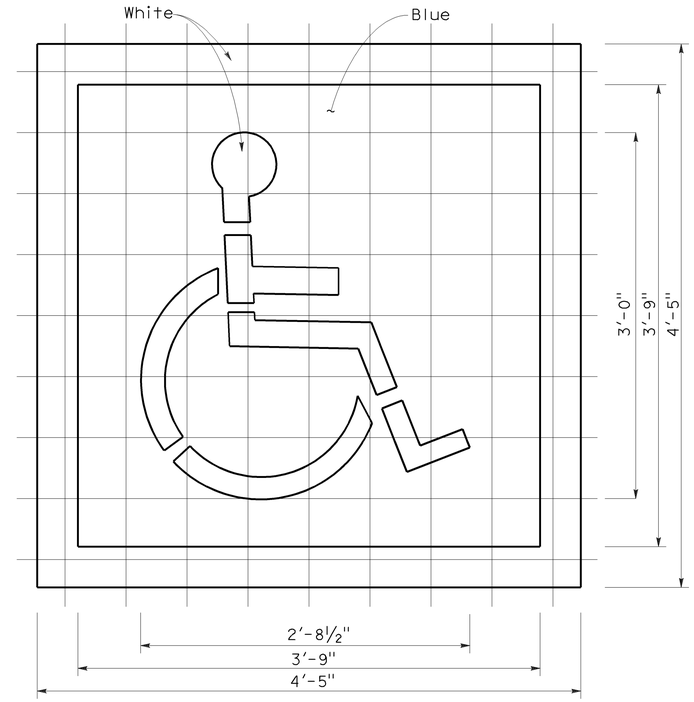
A=7 sq ft

BIKE LANE SYMBOL



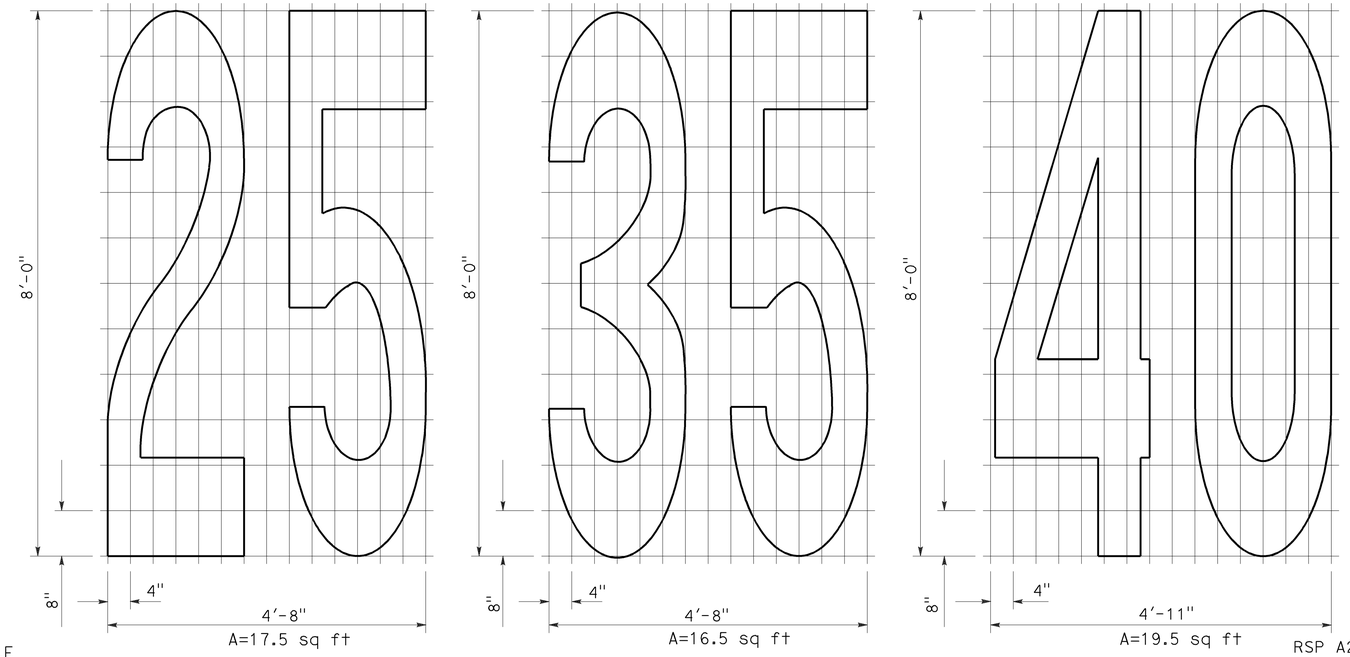
A=11 sq ft

DIAMOND SYMBOL



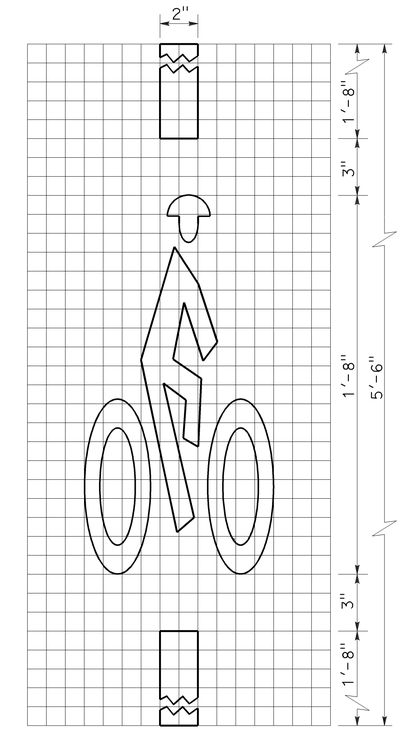
6" GRID
A (White) =9 sq ft
A (Blue) =14 sq ft

INTERNATIONAL SYMBOL OF ACCESSIBILITY MARKING



A=17.5 sq ft
A=16.5 sq ft
A=19.5 sq ft

NUMERALS



A=2 sq ft

BICYCLE LOOP DETECTOR SYMBOL

NOTE:

1. Minor variations in dimensions may be accepted by the Engineer.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS SYMBOLS AND NUMERALS

NO SCALE

RSP A24C DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN A24C DATED MAY 1, 2006 - PAGE 11 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A24C

2006 REVISED STANDARD PLAN RSP A24C

5-27-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	79	L0.3/10.0	13	20

William K. Farnbach
REGISTERED CIVIL ENGINEER

May 15, 2009
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
William K. Farnbach
No. C49042
Exp. 9-30-10
CIVIL
STATE OF CALIFORNIA

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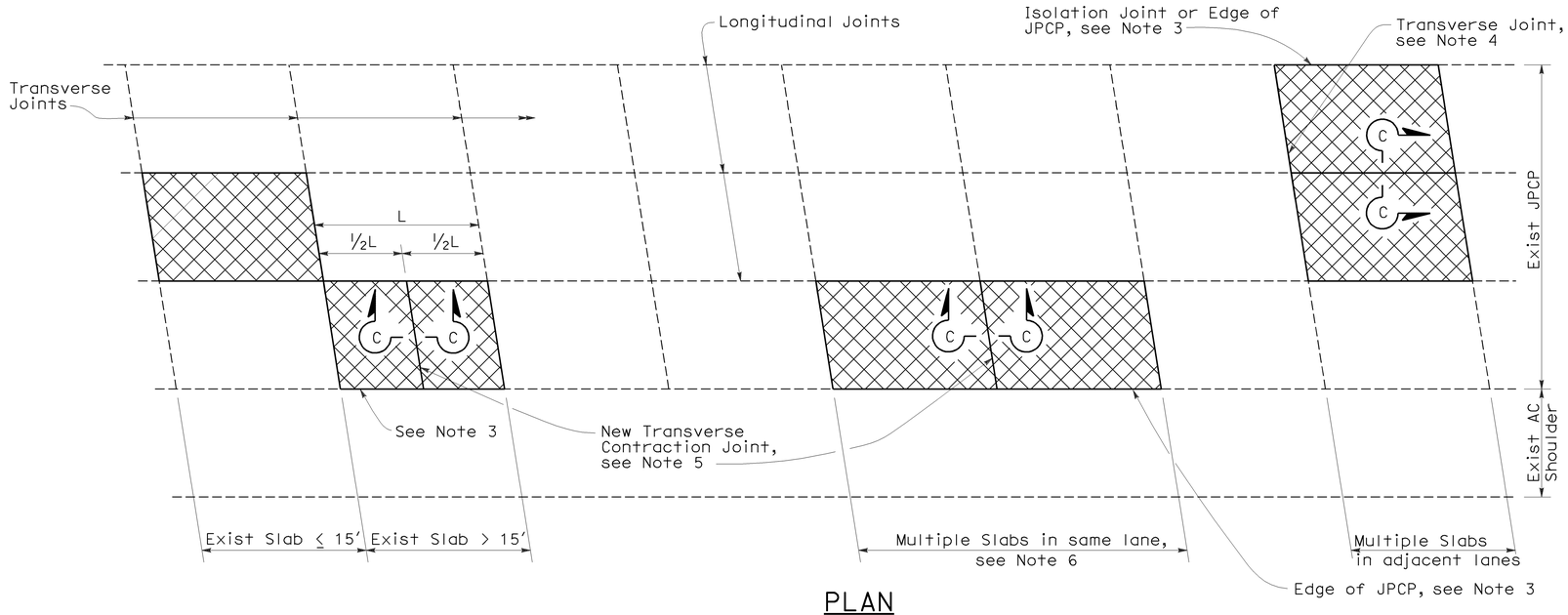
To accompany plans dated 01-30-12



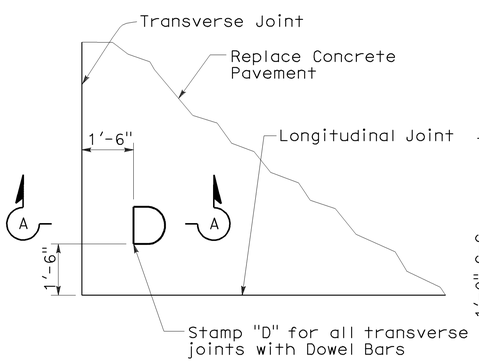
PLAN

NOTES:

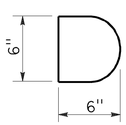
1. For details not shown, see Revised Standard Plan RSP P10.
2. Where the existing outer shoulder pavement is asphalt concrete pavement, the "a" dimension shall be 1′-0" and the "b" dimension shall be 2′-0".
3. Side forms shall be used where edge of pavement is adjacent to asphalt concrete.
4. For detail, see Transverse Construction Joint for existing concrete pavement detail on Revised Standard Plan RSP P10.
5. Transverse joint to match skew of existing joint. Omit dowel bars.
6. This Standard Plan only applicable when replacing multiple slabs in the same lane is less than 100′.

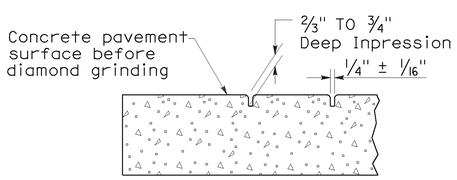
LEGEND

Replace Concrete Pavement (See Slab Layout Detail)

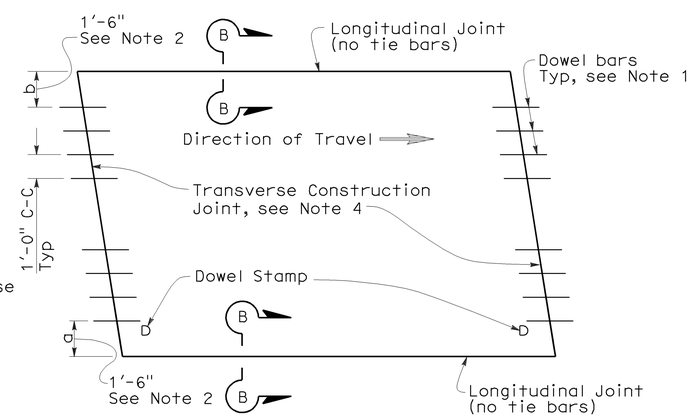


DOWEL STAMP DETAIL

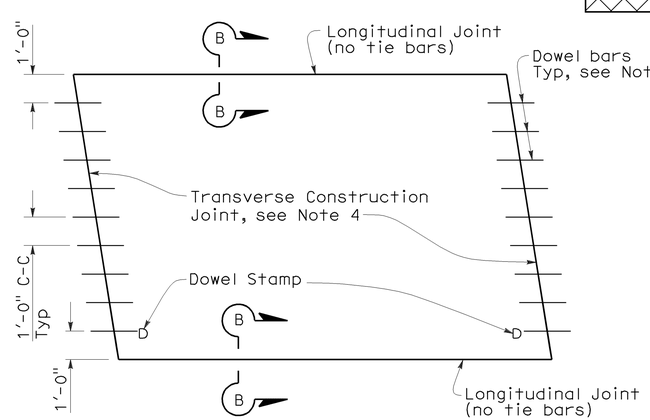




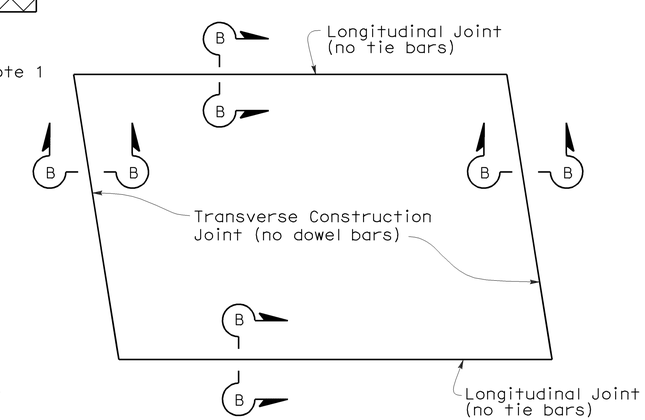
SECTION A-A



TYPE I
(traffic lane lines match longitudinal joints)

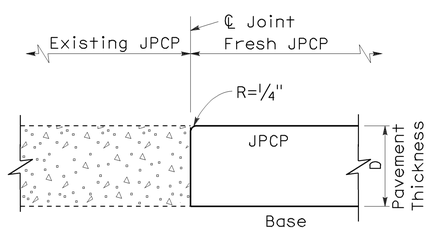


TYPE II
(traffic lane lines do not match longitudinal joints)

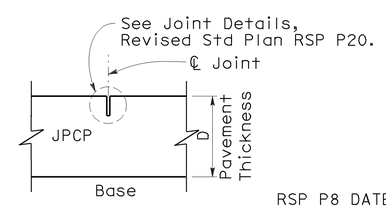


TYPE III
(for short term repairs < 5 yrs design life or for slab replacements with a cracking and seating operation)

SLAB LAYOUT



SECTION B-B



SECTION C-C

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

JOINTED PLAIN CONCRETE PAVEMENT-INDIVIDUAL SLAB REPLACEMENT

NO SCALE

RSP P8 DATED MAY 15, 2009 SUPERSEDES RSP P8 DATED SEPTEMBER 1, 2006 AND STANDARD PLAN P8 DATED MAY 1, 2006 - PAGE 123 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP P8

2006 REVISED STANDARD PLAN RSP P8

5-8-09

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	79	L0.3/10.0	14	20

William K. Farnbach
REGISTERED CIVIL ENGINEER

May 15, 2009
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER William K. Farnbach No. C49042 Exp. 9-30-10 CIVIL STATE OF CALIFORNIA

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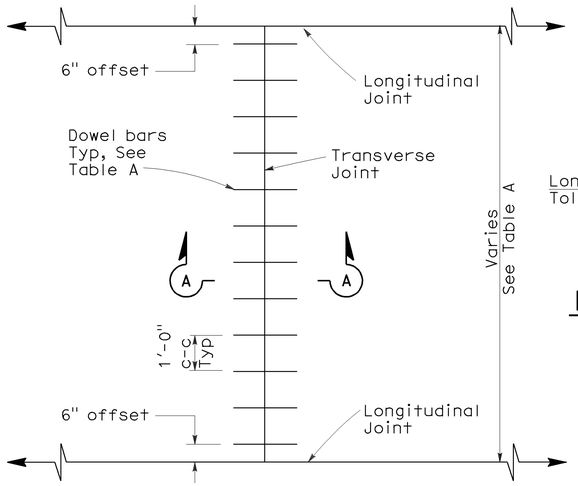
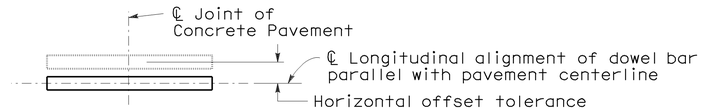
To accompany plans dated 01-30-12

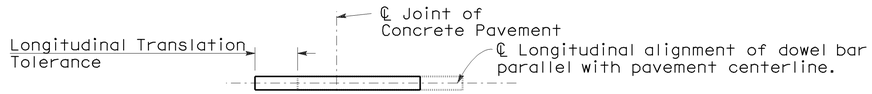


TRANSVERSE JOINT DOWEL BAR LAYOUT



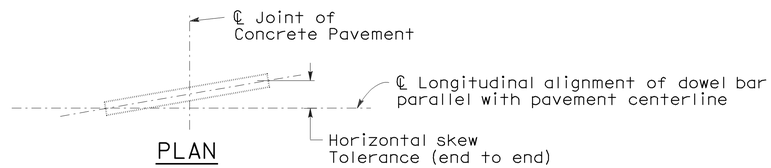
PLAN

HORIZONTAL OFFSET TOLERANCE



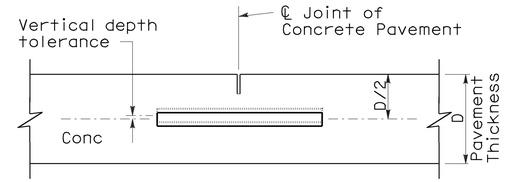
PLAN

LONGITUDINAL TRANSLATION TOLERANCE



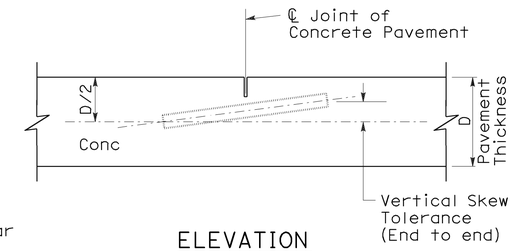
PLAN

HORIZONTAL SKEW TOLERANCE



ELEVATION

VERTICAL DEPTH TOLERANCE



ELEVATION

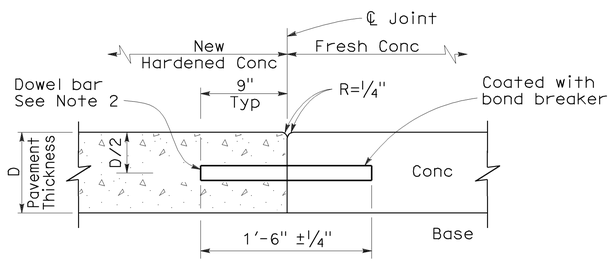
VERTICAL SKEW TOLERANCE

NOTES:

1. See Revised Standard Plan RSP P1 for typical dowel bar placement and locations.
2. 1½" Dia smooth dowel bars are to be used with a pavement thickness, D, equal to or greater than 0.70 feet. For pavement thickness, D, less than 0.70 feet, use 1¼" Dia smooth dowel bars.
3. For widths not shown, see Project Plans.
4. If fresh concrete pavement is placed adjacent to existing concrete pavement, the top corner of the existing concrete pavement does not need to be rounded to the ¼" radius, as shown.

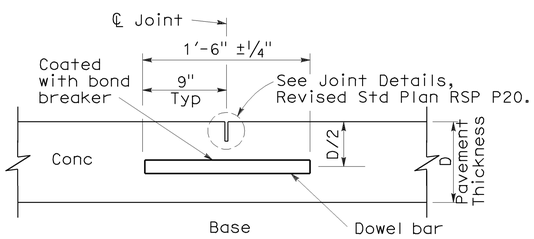
TABLE A (See Note 3)

Dowel Bar Transverse Spacing Table	
Width between Longitudinal Joints	Number of Dowels between Longitudinal Joints
14'-0"	14
13'-0"	13
12'-0"	12
11'-0"	11
10'-0"	10
8'-0"	8
5'-0"	5
4'-0"	4

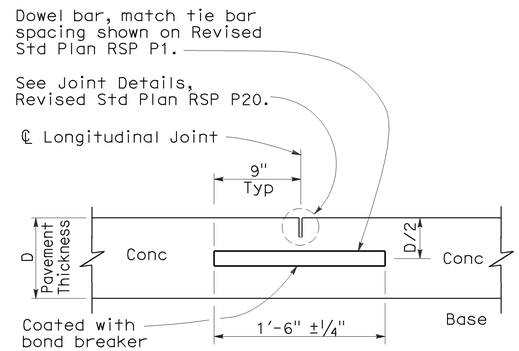


SECTION A-A

TRANSVERSE CONSTRUCTION JOINT DETAIL

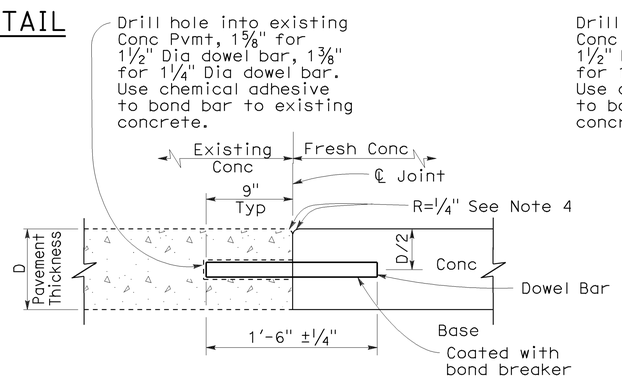


TRANSVERSE CONTRACTION JOINT



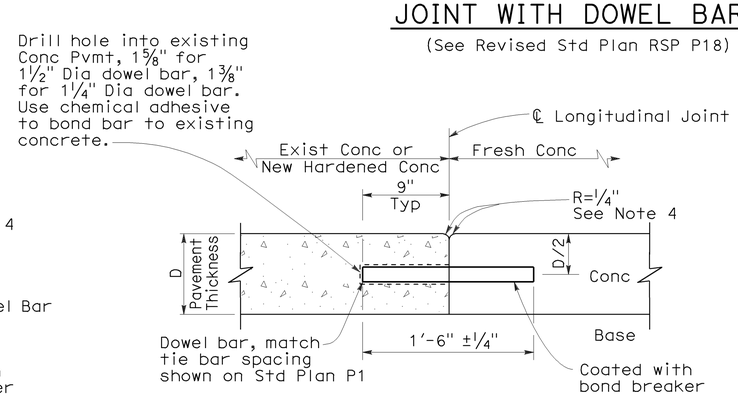
LONGITUDINAL CONTRACTION JOINT WITH DOWEL BARS

(See Revised Std Plan RSP P18)



TRANSVERSE CONSTRUCTION JOINT FOR EXISTING CONCRETE PAVEMENT

(Drill and bond locations)



LONGITUDINAL CONSTRUCTION JOINT WITH DOWEL BARS

(See Revised Std Plan RSP P18)

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CONCRETE PAVEMENT-DOWEL BAR DETAILS

NO SCALE

RSP P10 DATED MAY 15, 2009 SUPERSEDES STANDARD PLAN P10 DATED MAY 1, 2006 - PAGE 124 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP P10

2006 REVISED STANDARD PLAN RSP P10

5-8-09

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	79	L0.3/10.0	15	20

William K. Farnbach
REGISTERED CIVIL ENGINEER

May 15, 2009
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
William K. Farnbach
No. C49042
Exp. 9-30-10
CIVIL
STATE OF CALIFORNIA

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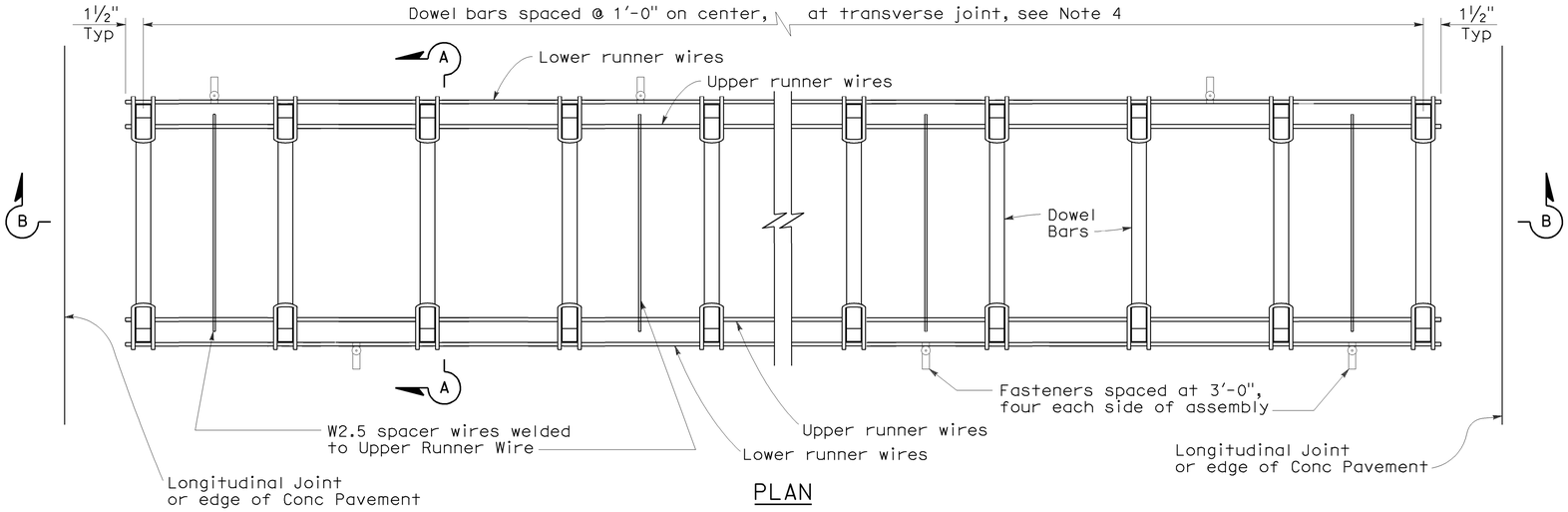
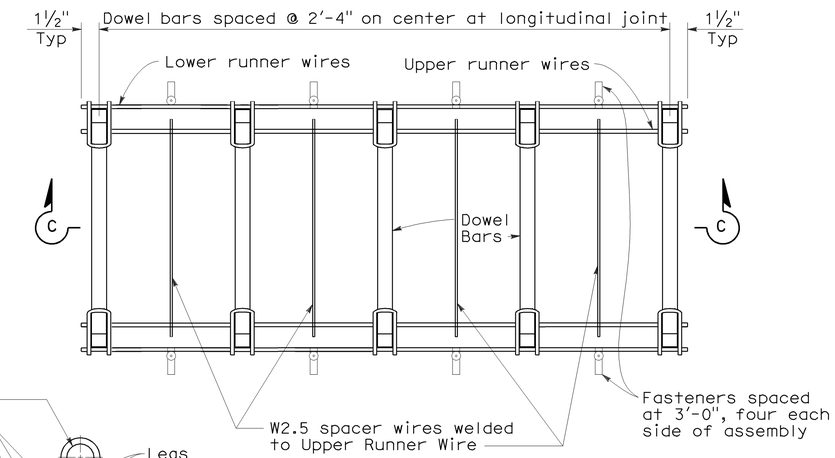
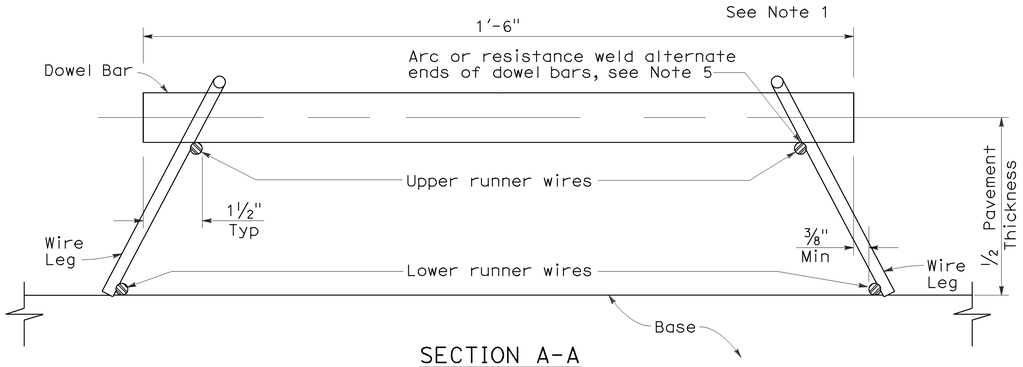
To accompany plans dated 01-30-12



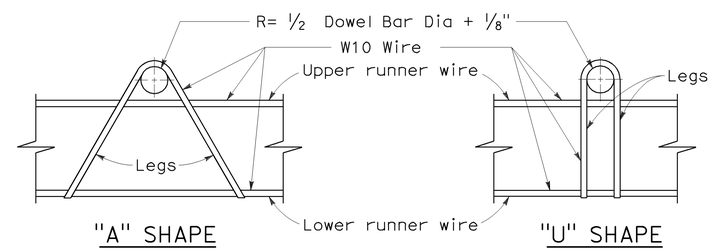
PLAN
DOWEL BAR BASKET (TRANSVERSE JOINT)
See Note 1



PLAN
DOWEL BAR BASKET (LONGITUDINAL JOINT)
See Note 1

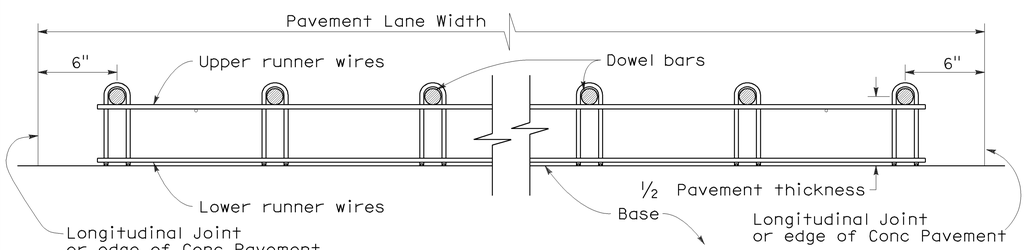


SECTION A-A

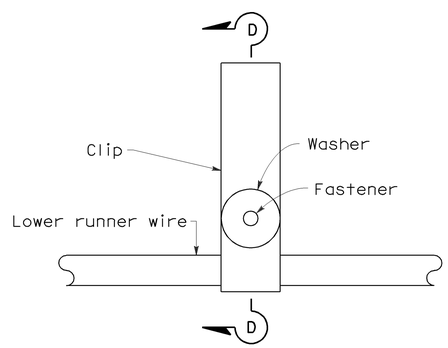


"A" SHAPE "U" SHAPE

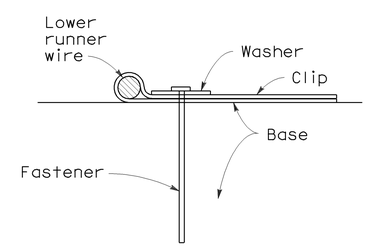
ASSEMBLY FRAME DETAILS



SECTION B-B
See Note 1

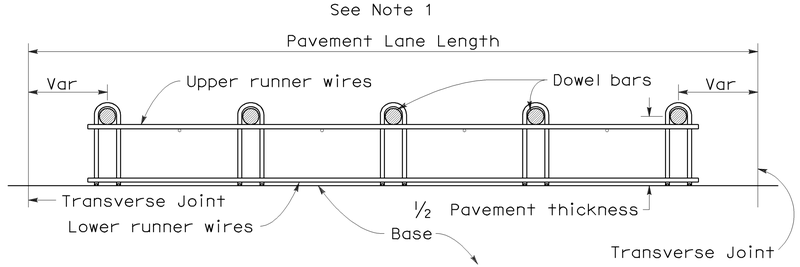


PLAN



SECTION D-D

FASTENER DETAIL



SECTION C-C
See Notes 1 and 4

NOTES:

1. "U" frame shape assembly shown. "U" frame shape or "A" frame shape are acceptable.
2. Wire sizes shown are minimum required.
3. All wire intersections are to be resistance welded.
4. Use tie bar spacing for longitudinal dowel bar locations. See Revised Std Plans RSPs P1, P2, and P3 for tie bar requirements.
5. Weld may be at top or bottom of dowel bar.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CONCRETE PAVEMENT-DOWEL BAR BASKET DETAILS

NO SCALE

RSP P12 DATED MAY 15, 2009 SUPERSEDES RSP P12 DATED NOVEMBER 17, 2006 AND STANDARD PLAN P12 DATED MAY 1, 2006 - PAGE 125 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP P12

2006 REVISED STANDARD PLAN RSP P12

5-8-09

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	79	L0.3/10.0	16	20

William K. Farnbach
REGISTERED CIVIL ENGINEER

June 5, 2009
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER William K. Farnbach No. C49042 Exp. 9-30-10 CIVIL STATE OF CALIFORNIA

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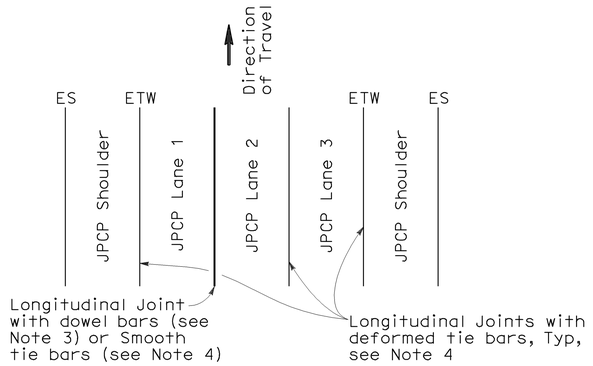
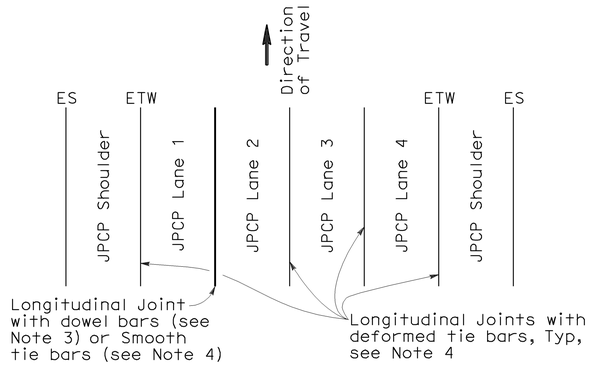
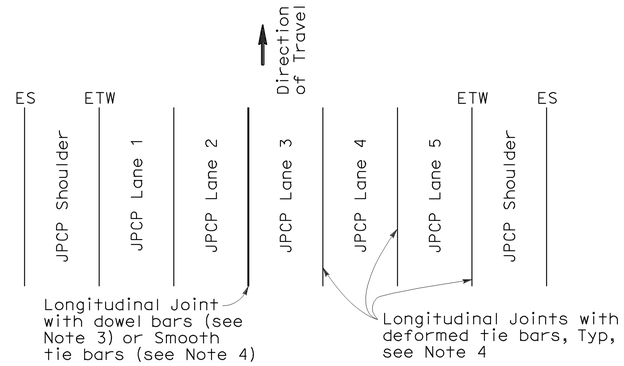
To accompany plans dated 01-30-12



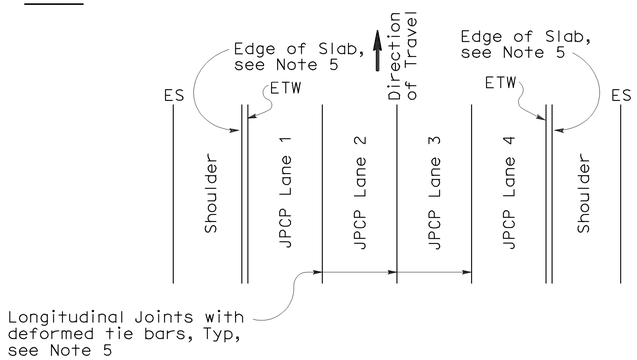
3 LANES WITH TIED CONCRETE SHOULDERS
PLAN



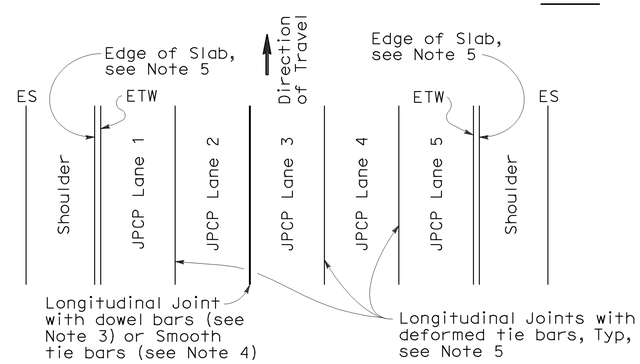
4 LANES WITH TIED CONCRETE SHOULDERS
PLAN



5 LANES WITH TIED CONCRETE SHOULDERS
PLAN



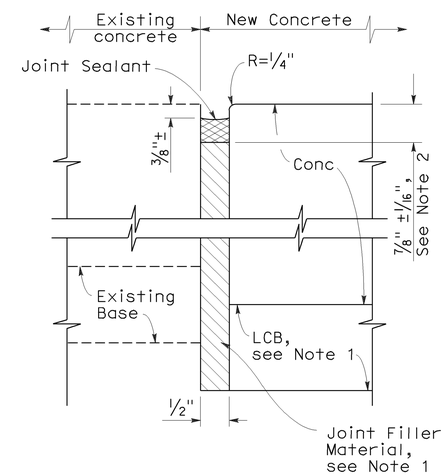
4 LANES OR LESS WITH WIDENED SLAB
PLAN



5 LANES WITH WIDENED SLAB
PLAN

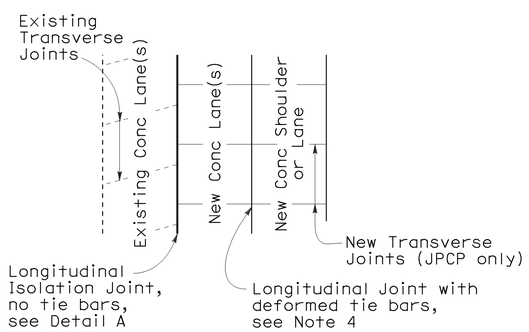
NEW CONSTRUCTION

Location of Longitudinal Joints
(For JPCP)



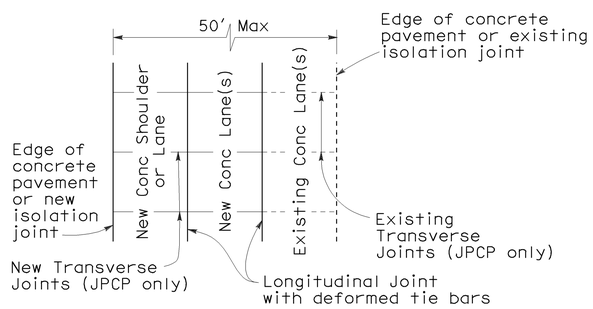
DETAIL A

ISOLATION JOINT



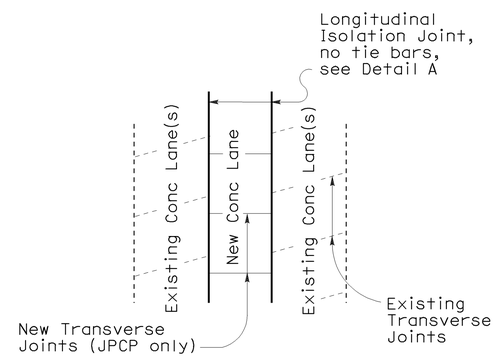
CASE 1
PLAN

Transverse Joints do not align between new and existing



CASE 2
PLAN

Transverse Joints align between new and existing



CASE 3 (INTERIOR LANE REPLACEMENT)
PLAN

Transverse Joints do not align between new and existing

LANE/SHOULDER ADDITION OR RECONSTRUCTION

(For JPCP and CRCP)

NOTES:

1. Where Lean Concrete Base is not used as base material, the joint filler material used for the longitudinal isolation joint shall only extend to the bottom of the new concrete slab. See Detail A.
2. Use 5/8" ±1/16" dimension for silicone sealant.
3. See Revised Standard Plan RSP P10 for longitudinal joint with dowel bars.
4. See Revised Standard Plan RSP P1.
5. See Revised Standard Plan RSP P2.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CONCRETE PAVEMENT-LANE SCHEMATICS AND ISOLATION JOINT DETAIL

NO SCALE

RSP P18 DATED JUNE 5, 2009 SUPERSEDES RSP P18 DATED MAY 15, 2009, RSP P18 DATED NOVEMBER 17, 2006 AND STANDARD PLAN P18 DATED MAY 1, 2006 - PAGE 127 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP P18

2006 REVISED STANDARD PLAN RSP P18

5-14-09

NOTE:

1. Tie bars, dowel bars, and reinforcement are not shown in joint seal details, see Revised Standard Plans RSP P1, RSP P3, RSP P10, RSP P35, RSP P45, or RSP P46 as applicable.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	79	L0.3/10.0	17	20

William K. Farnbach
REGISTERED CIVIL ENGINEER

May 15, 2009
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER William K. Farnbach No. C49042 Exp. 9-30-10 CIVIL STATE OF CALIFORNIA

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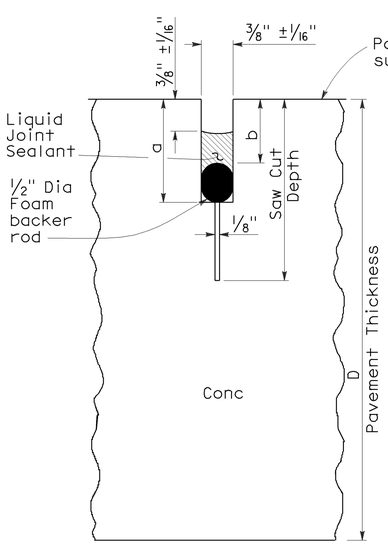
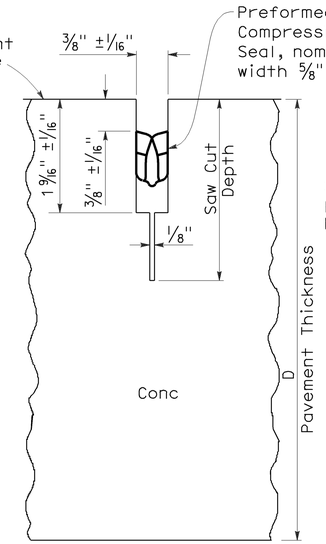
To accompany plans dated 01-30-12



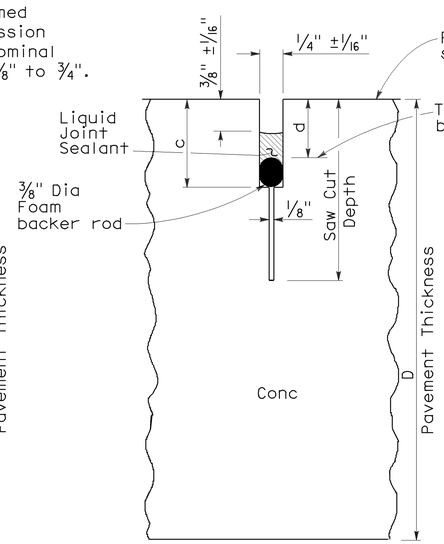
LIQUID SEALANT



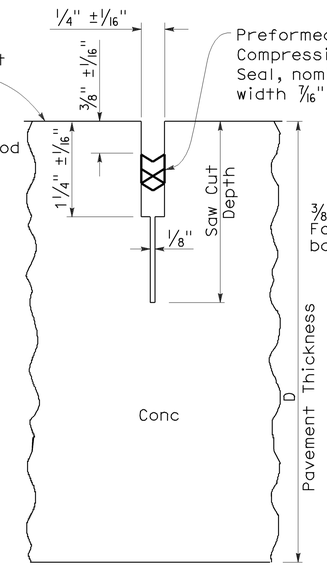
COMPRESSION SEAL

TYPE A1

Transverse Contraction Joints



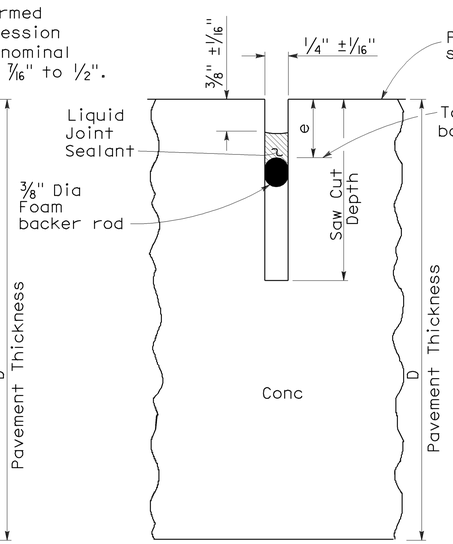
LIQUID SEALANT



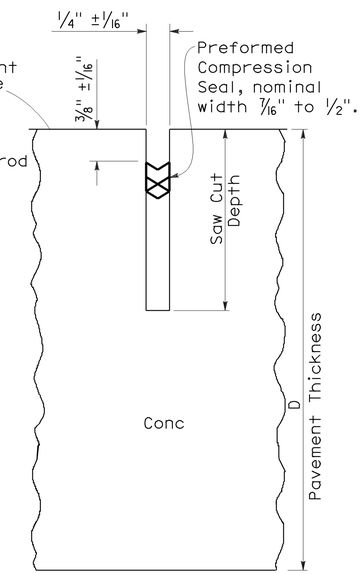
COMPRESSION SEAL

TYPE A2

Longitudinal Contraction Joints



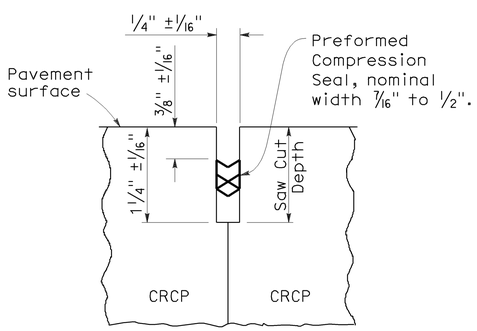
LIQUID SEALANT



COMPRESSION SEAL

TYPE B

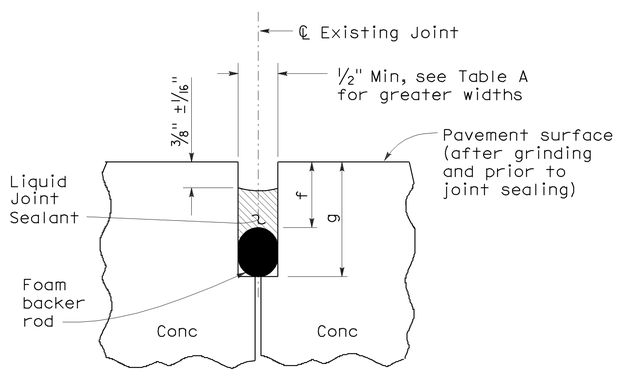
Longitudinal or Transverse Contraction Joint



COMPRESSION SEAL

TYPE C

Transverse and Longitudinal Construction Joints (For CRCP)



LIQUID SEALANT

TYPE R

Retrofit Transverse and Longitudinal Joints

LIQUID SEALANT RESERVOIR DEPTH

LIQUID SEALANT MATERIAL	3/8" Joint Width Type A1		1/4" Joint Width Type A2		1/4" Joint Width Type B
	DIMENSION		DIMENSION		DIMENSION
	a	b	c	d	e
SILCONE	1" ±1/16"	5/8" ±1/16"	15/16" ±1/16"	9/16" ±1/16"	9/16" ±1/16"
ASPHALT RUBBER	1 3/16" ±1/16"	3/4" ±1/16"	1 1/16" ±1/16"	11/16" ±1/16"	11/16" ±1/16"

TABLE A (TYPE R JOINT)

Sawn Joint Width	Backer Rod Diameter ± 1/16"	DIMENSION "f"	DIMENSION "g"
1"	1 5/16"	7/8"	2 1/4"
7/8"	1 3/16"	13/16"	2"
3/4"	1"	3/4"	1 3/4"
5/8"	7/8"	11/16"	1 1/2"
1/2"	11/16"	5/8"	1 1/4"

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CONCRETE PAVEMENT-JOINT DETAILS

NO SCALE

RSP P20 DATED MAY 15, 2009 SUPERSEDES STANDARD PLAN P20
DATED MAY 1, 2006 - PAGE 128 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP P20

2006 REVISED STANDARD PLAN RSP P20

5-8-09

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	79	L0.3/10.0	18	20

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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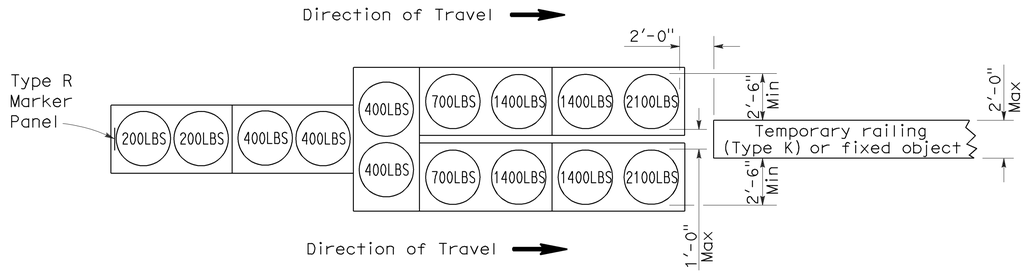
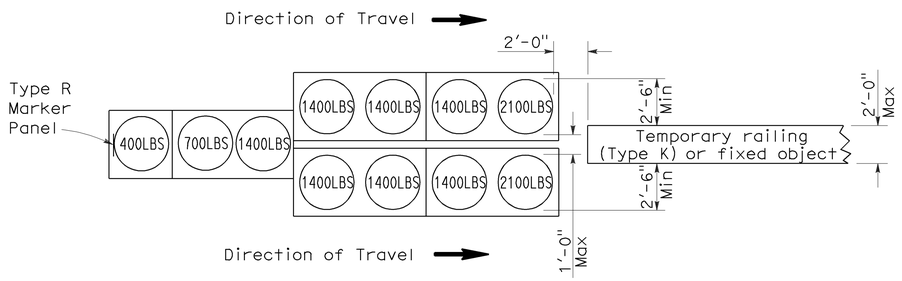
To accompany plans dated 01-30-12



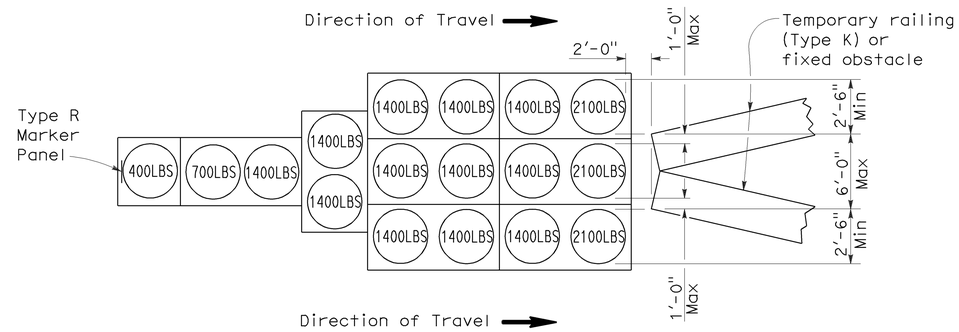
ARRAY 'TU14'

Approach speed 45 mph or more



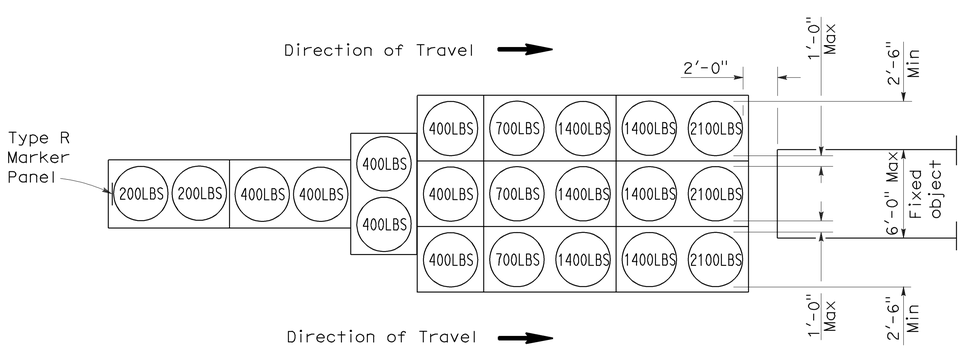
ARRAY 'TU11'

Approach speed less than 45 mph



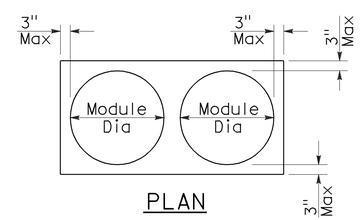
ARRAY 'TU17'

Approach speed less than 45 mph

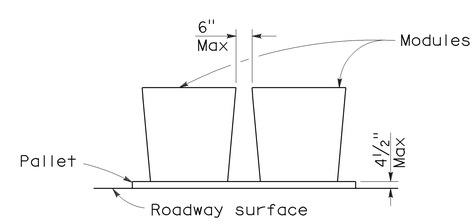


ARRAY 'TU21'

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	79	L0.3/10.0	19	20

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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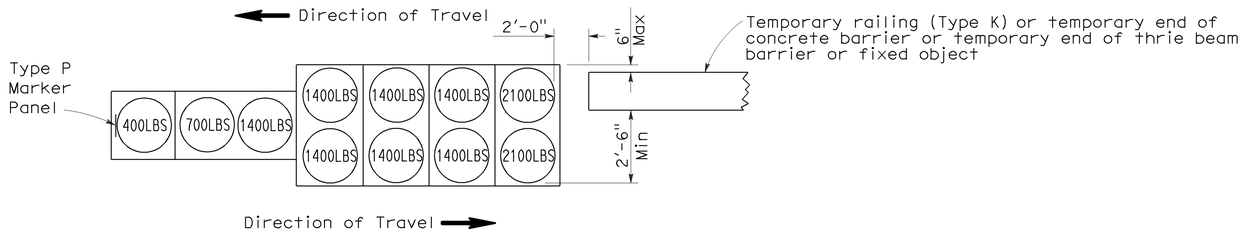
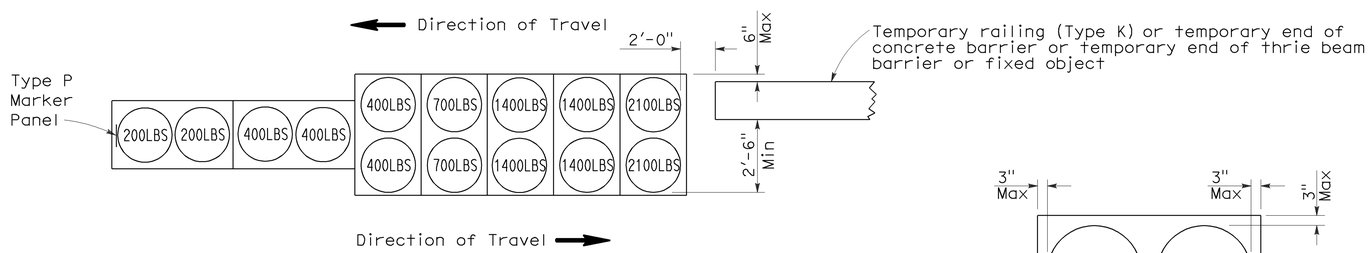
To accompany plans dated 01-30-12



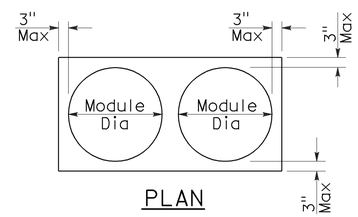
ARRAY 'TB11'

Approach speed less than 45 mph

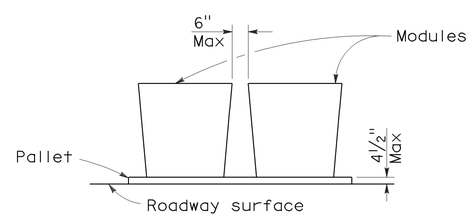


ARRAY 'TB14'

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	79	L0.3/10.0	20	20

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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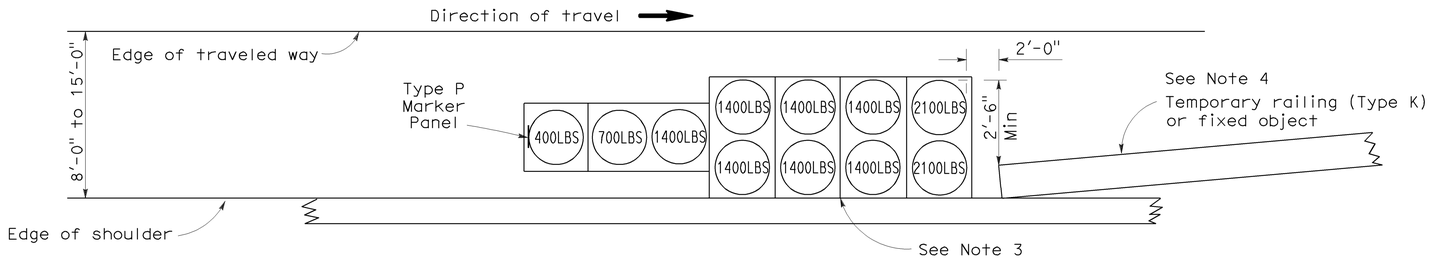
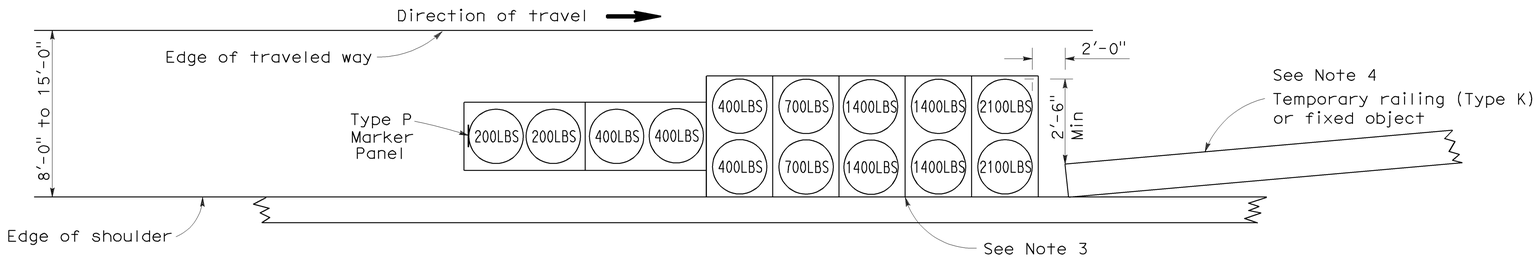
To accompany plans dated 01-30-12



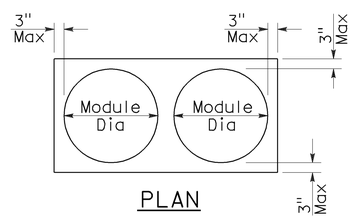
ARRAY 'TS11'

Approach speed less than 45 mph
See Note 9

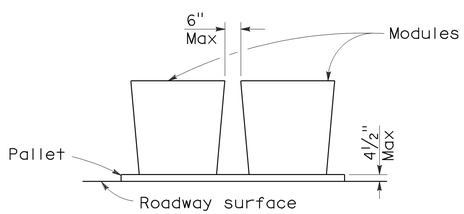


ARRAY 'TS14'

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