ACIM-010-1(804)E

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	39.0/42.1	1	22

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

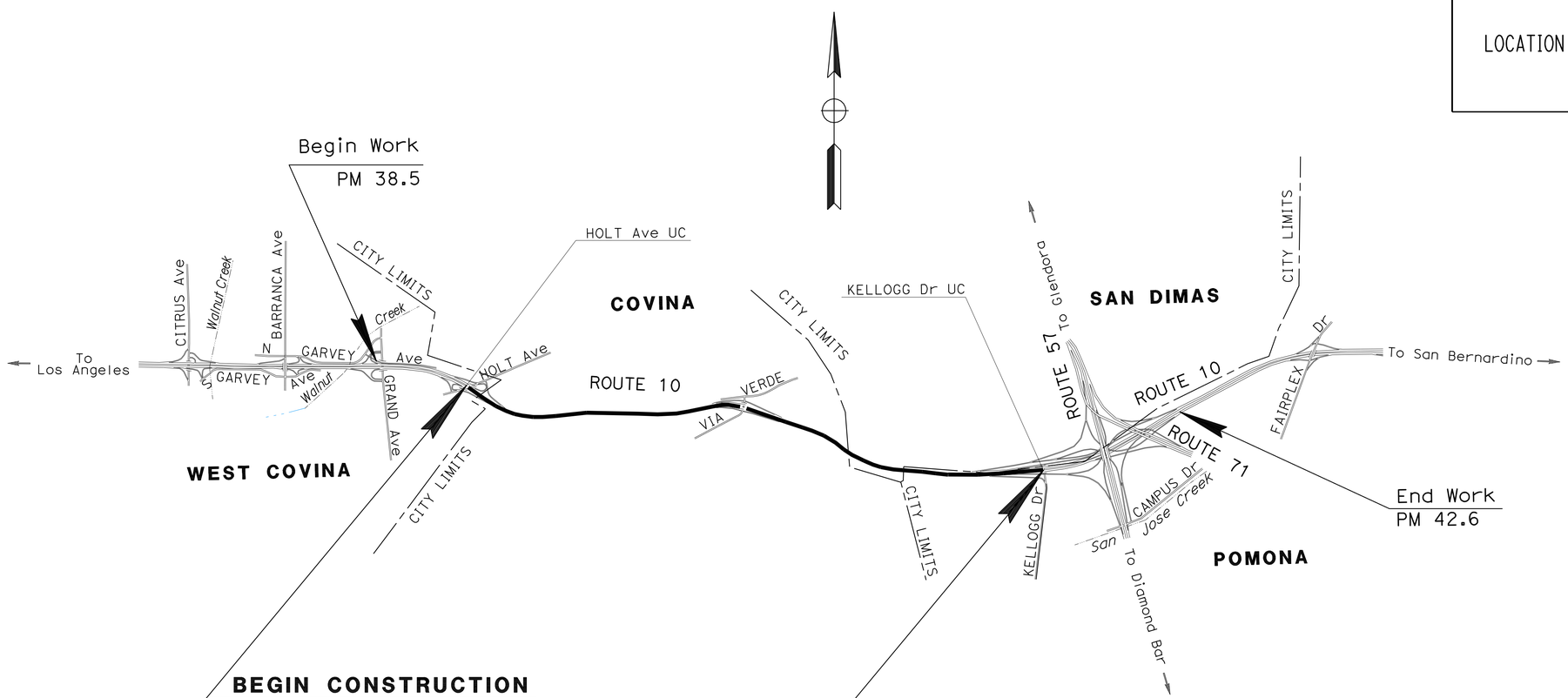
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN LOS ANGELES COUNTY
IN WEST COVINA, COVINA, SAN DIMAS AND POMONA
FROM HOLT AVENUE UNDERCROSSING
TO KELLOGG DRIVE UNDERCROSSING

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	TYPICAL CROSS SECTIONS
3-6	CONSTRUCTION DETAILS
7	CONSTRUCTION AREA SIGNS
8-13	TRAFFIC HANDLING PLANS
14	PAVEMENT DELINEATION DETAILS
15	SUMMARY OF QUANTITIES
16-22	REVISED STANDARD PLANS

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



NO SCALE

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

PROJECT MANAGER: GARY K KEVORKIAN

DESIGN ENGINEER: LARRY WIERING

PROJECT ENGINEER REGISTERED CIVIL ENGINEER — DATE 1-3-11

Ghassan Bashoura No. C 53065 Exp. 6/30/11 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

January 31, 2011
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.	07-3Y9904
PROJECT ID	0700020227

LAST REVISION 03-07-11 — DATE PLOTTED => 07-MAR-2011 — TIME PLOTTED => 13:18

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	39.0/42.1	2	22

REGISTERED CIVIL ENGINEER 1-3-11 DATE

1-31-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER GHASSAN BASHOURA No. C 53065 Exp. 6-30-11 CIVIL STATE OF CALIFORNIA

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

NOTES:

1. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.
3. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
4. OMIT GRINDING ON BRIDGE DECKS, APPROACH AND DEPARTURE SLABS, TRAFFIC LOOPS AND AC PAVEMENT.
5. SEE QUANTITY SHEET FOR LOCATIONS AND QUANTITIES OF REPLACE CONCRETE PAVEMENT (RSC) . EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
6. GRIND EXISTING CONCRETE PAVEMENT, INCLUDING LANE LINES.

LEGEND:

[1] 0.75′ REPLACE CONCRETE PAVEMENT (RSC)

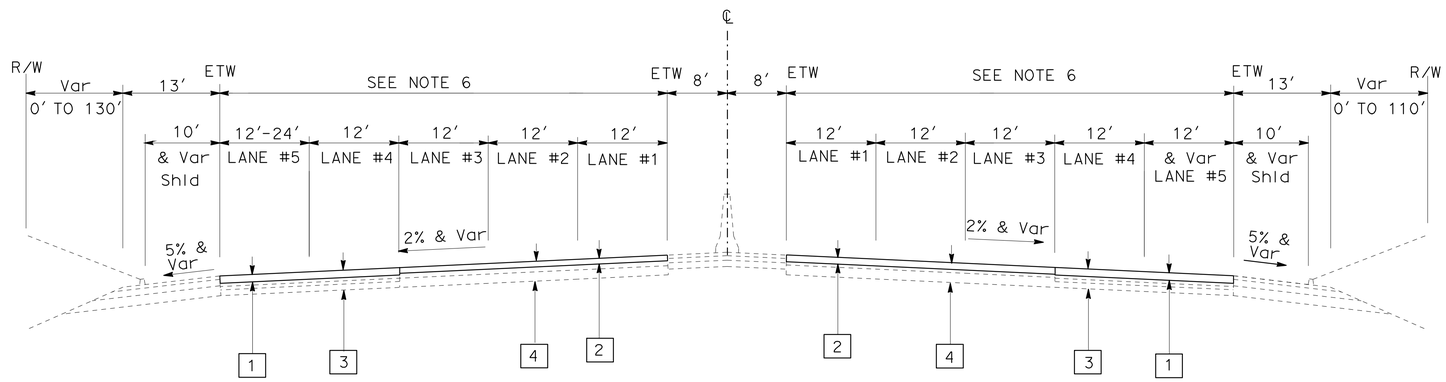
[2] 0.65′ REPLACE CONCRETE PAVEMENT (RSC)

[3] EXISTING
0.75′ PCC PAVEMENT
0.33′ CTB CLASS A
0.33′ CLASS 2 AB
0.58′ CLASS 2 AS

[4] EXISTING
0.67′ PCC PAVEMENT
0.33′ CTB
1.00′ AS

LEGEND:

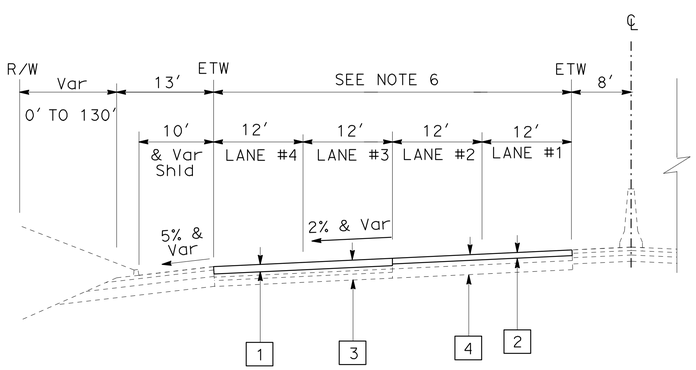
1. (RSC) = RAPID STRENGTH CONCRETE



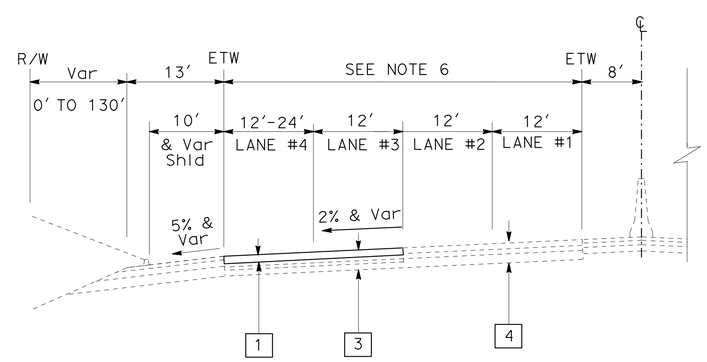
WESTBOUND
PM TO PM
41.58 TO 41.76

ROUTE 10

EASTBOUND
PM TO PM
39.00 TO 41.53
41.59 TO 41.66
41.96 TO 42.10

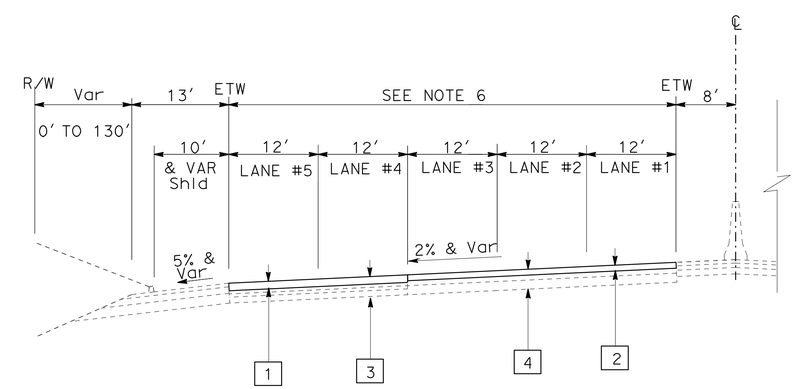


WESTBOUND
PM TO PM
40.09 TO 40.98
41.76 TO 42.10



WESTBOUND
PM TO PM
40.98 To 41.03

ROUTE 10



WESTBOUND
PM TO PM
41.03 TO 41.58

TYPICAL CROSS SECTIONS

NO SCALE

X-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
MAINTENANCE ENGINEERING
Caltrans

FUNCTIONAL SUPERVISOR: LARRY WIERING
CALCULATED-DESIGNED BY: GHASSAN BASHOURA
CHECKED BY: LARRY WIERING
REVISED BY
DATE REVISED

LAST REVISION 03-07-11
DATE PLOTTED => 07-MAR-2011
TIME PLOTTED => 13:19

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	39.0/42.1	3	22

REGISTERED CIVIL ENGINEER 1-3-11 DATE

1-31-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER GHASSAN BASHOURA No. C 53065 Exp. 6-30-11 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.

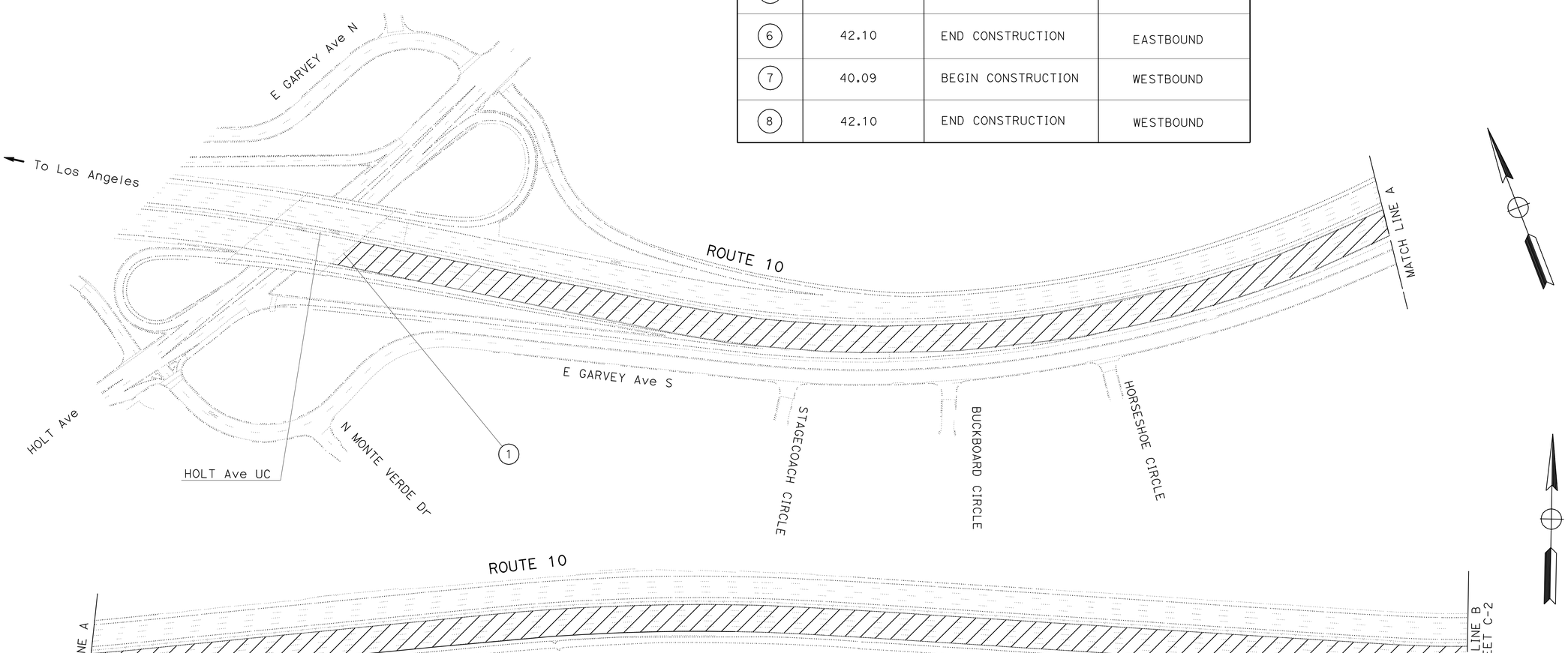
LEGEND:

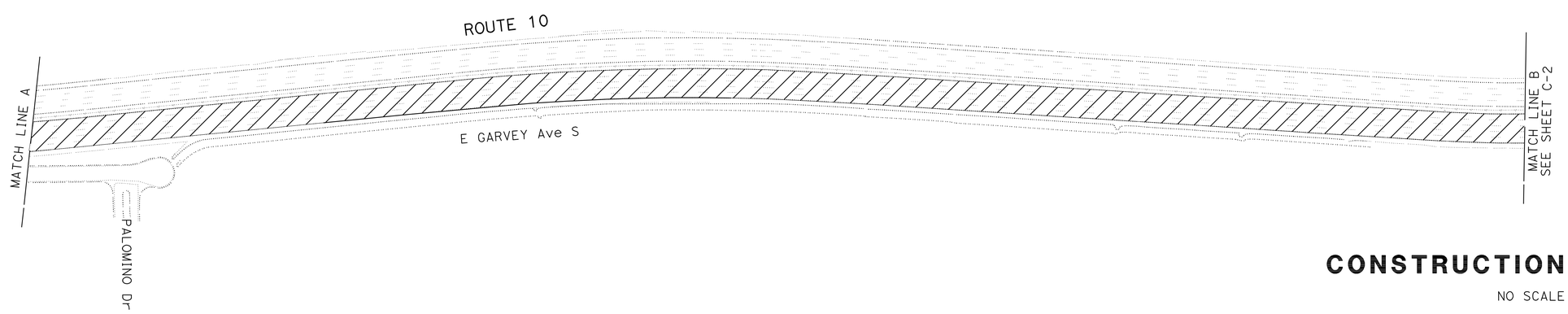
WESTBOUND: PROFILE GRIND PCC PAVEMENT

EASTBOUND: PROFILE GRIND PCC PAVEMENT

LOCATIONS OF CONSTRUCTION

No.	POST MILE	DESCRIPTION	DIRECTION
1	39.00	BEGIN CONSTRUCTION	EASTBOUND
2	41.53	END CONSTRUCTION	EASTBOUND
3	41.59	BEGIN CONSTRUCTION	EASTBOUND
4	41.66	END CONSTRUCTION	EASTBOUND
5	41.96	BEGIN CONSTRUCTION	EASTBOUND
6	42.10	END CONSTRUCTION	EASTBOUND
7	40.09	BEGIN CONSTRUCTION	WESTBOUND
8	42.10	END CONSTRUCTION	WESTBOUND





CONSTRUCTION DETAILS

NO SCALE

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: LARRY WIERING

CALCULATED-DESIGNED BY: GHASSAN BASHOURA
CHECKED BY: LARRY WIERING

REVISED BY
DATE REVISED

LAST REVISION 03-07-11
DATE PLOTTED => 07-MAR-2011
TIME PLOTTED => 13:19

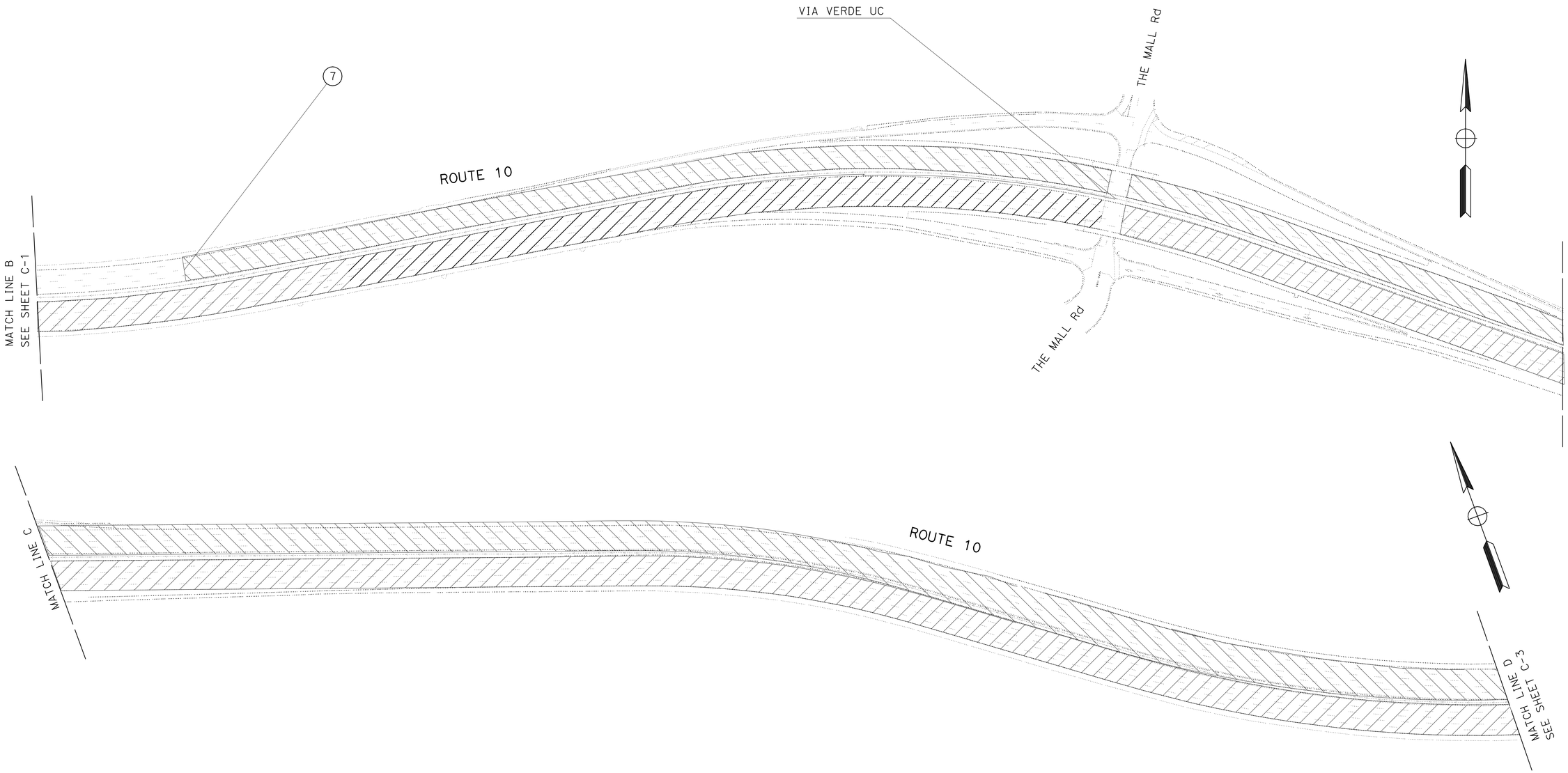
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	39.0/42.1	4	22

REGISTERED CIVIL ENGINEER 1-3-11 DATE

1-31-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
GHASSAN BASHOURA
No. C 53065
Exp. 6-30-11
CIVIL
STATE OF CALIFORNIA

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



CONSTRUCTION DETAILS

NO SCALE

C-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: LARRY WIERING
CALCULATED-DESIGNED BY: GHASSAN BASHOURA
CHECKED BY: LARRY WIERING
REVISED BY
DATE REVISED

LAST REVISION 03-07-11
DATE PLOTTED => 07-MAR-2011
TIME PLOTTED => 13:19

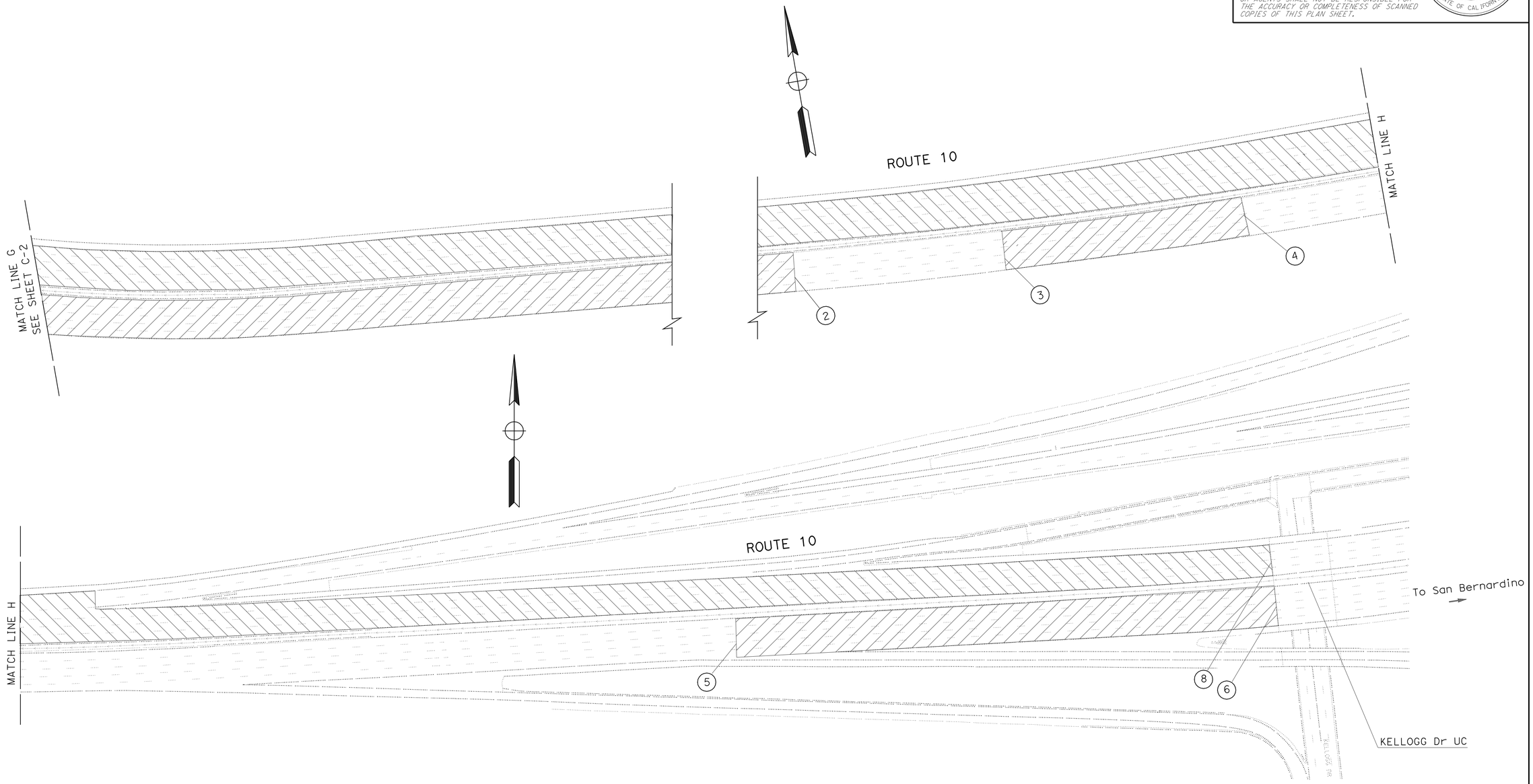
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	39.0/42.1	5	22

REGISTERED CIVIL ENGINEER 1-3-11 DATE

1-31-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
GHASSAN BASHOURA
No. C 53065
Exp. 6-30-11
CIVIL
STATE OF CALIFORNIA

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



CONSTRUCTION DETAILS

NO SCALE

C-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: LARRY WIERING

CALCULATED-DESIGNED BY: GHASSAN BASHOURA
CHECKED BY: LARRY WIERING

REVISED BY
DATE REVISED

LAST REVISION 03-07-11
DATE PLOTTED => 07-MAR-2011
TIME PLOTTED => 13:19

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	39.0/42.1	6	22

REGISTERED CIVIL ENGINEER 1-3-11 DATE

1-31-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER GHASSAN BASHOURA No. C 53065 Exp. 6-30-11 CIVIL STATE OF CALIFORNIA

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

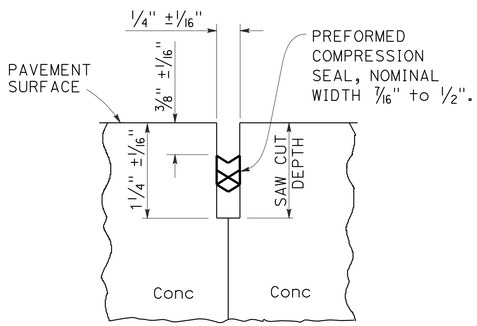
NOTE:

1. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL LOCATE EXISTING INDUCTIVE LOOP DETECTORS.

LEGEND:

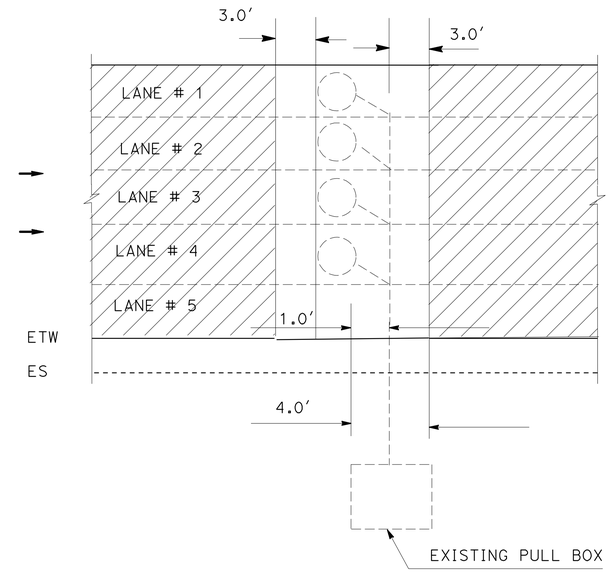
GRIND EXISTING PCC PAVEMENT

DIRECTION OF TRAVEL



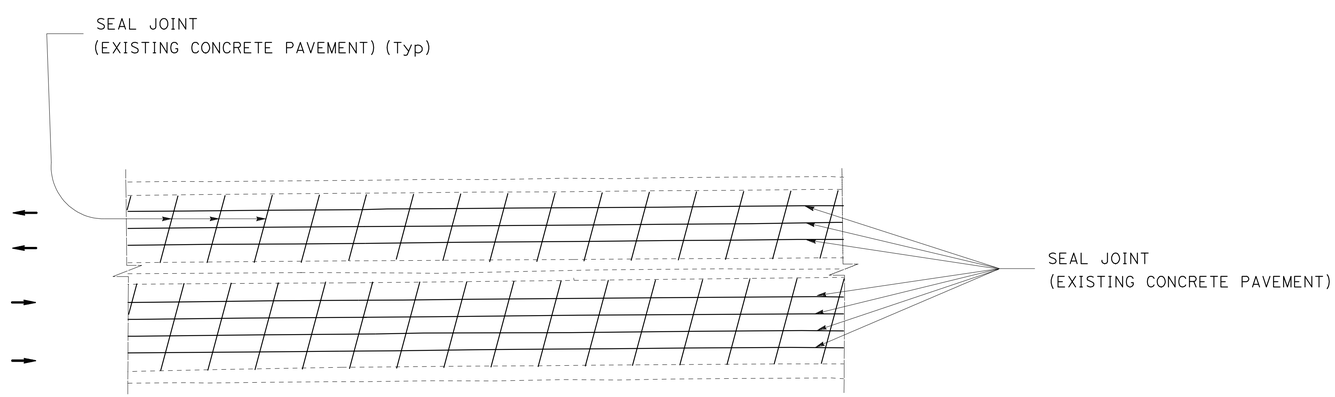
COMPRESSION SEAL

TYPE R (MODIFIED)



TYPICAL WORK LIMIT AT ELECTRICAL CONDUIT

(VARIOUS LOCATIONS)



TRANSVERSE AND LONGITUDINAL

COMPRESSION SEAL

CONSTRUCTION DETAILS

NO SCALE

C-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
MAINTENANCE ENGINEERING
Caltrans

FUNCTIONAL SUPERVISOR: LARRY WIERING
CALCULATED-DESIGNED BY: GHASSAN BASHOURA
CHECKED BY: LARRY WIERING
REVISED BY
DATE REVISED

LAST REVISION 03-07-11
DATE PLOTTED => 07-MAR-2011
TIME PLOTTED => 13:20

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	39.0/42.1	7	22

REGISTERED CIVIL ENGINEER 1-3-11 DATE

1-31-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER GHASSAN BASHOURA No. C 53065 Exp. 6-30-11 CIVIL STATE OF CALIFORNIA

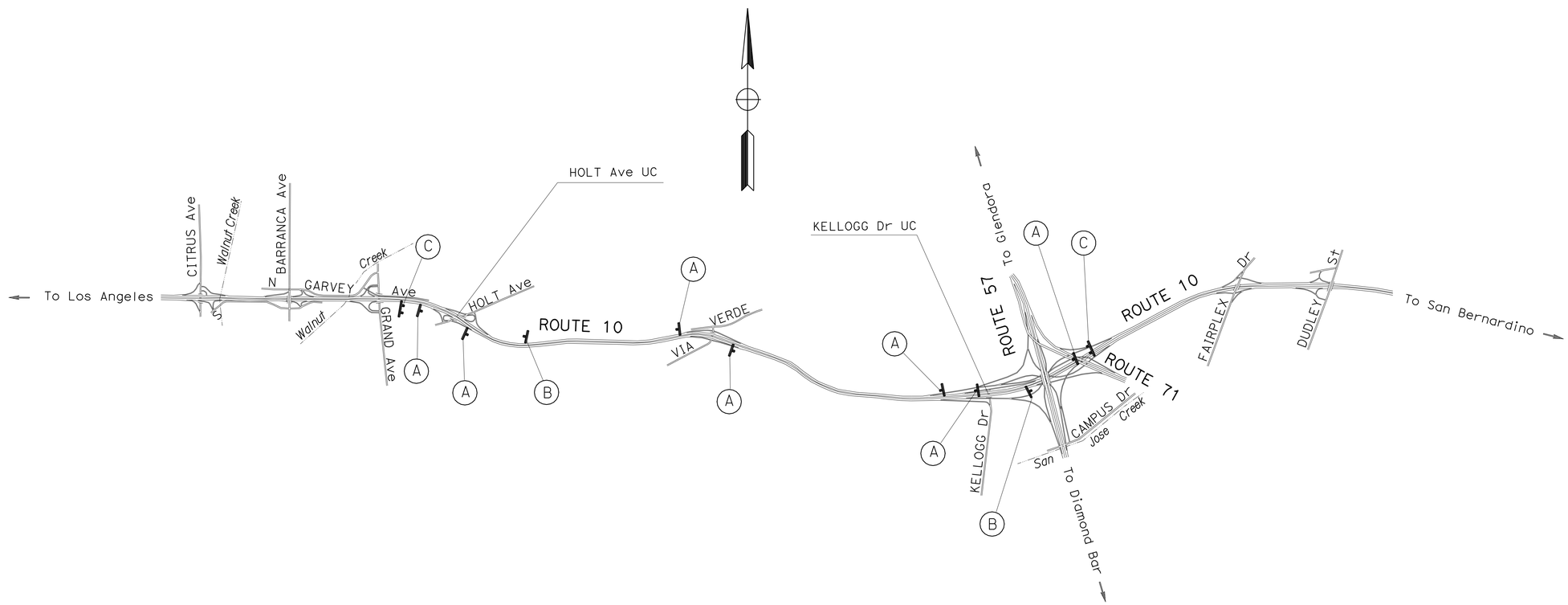
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. LOCATIONS OF CONSTRUCTION AREA SIGNS SHOWN ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
2. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN NUMBER	SIGN CODE	PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
A	W20-1	48" X 48"	ROAD WORK AHEAD	1-6" X 6"	7
B	G20-2	48" X 24"	END ROAD WORK	1-4" X 6"	2
C	C40 (CA)	144" X 60"	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	2-6" X 8"	2



CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: LARRY WIERING
CALCULATED-DESIGNED BY: GHASSAN BASHOURA
CHECKED BY: LARRY WIERING
REVISED BY
DATE REVISED

LAST REVISION 03-07-11
DATE PLOTTED => 07-MAR-2011
TIME PLOTTED => 13:20

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	39.0/42.1	8	22

REGISTERED CIVIL ENGINEER 7-30-10 DATE

1-31-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MARTIN OREGEL No. C56816 Exp. 6-30-11 CIVIL STATE OF CALIFORNIA

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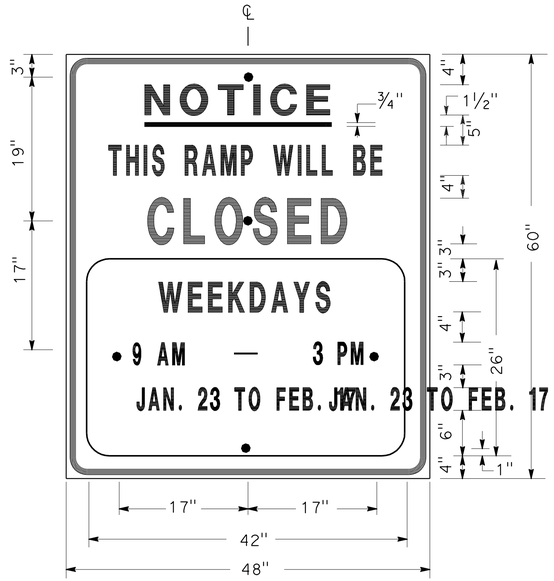
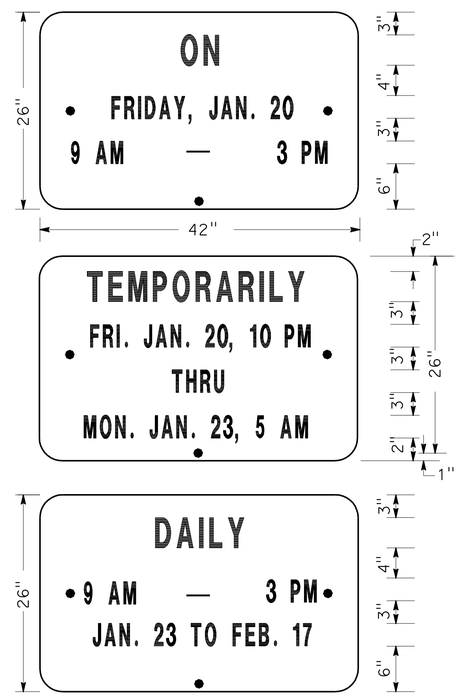


SIGN SP-1



ALTERNATE OVERLAY PANELS (TYPICAL)

SPECIAL ADVANCE NOTICE PUBLICITY SIGN

NOTES: (SIGN SP-1)

1. SIGNS SHALL HAVE ORANGE RETROREFLECTORIZED BACKGROUND WITH BLACK BORDER AND LETTERS.
2. BOLT HOLES SHALL BE 3/8" DIAMETER.
3. BASE MATERIAL SHALL BE ALUMINUM (MINIMUM 0.06").
4. SIGNS SHALL BE MOUNTED WITH BOTTOMS OF SIGNS A MINIMUM OF 6' ABOVE GROUND.

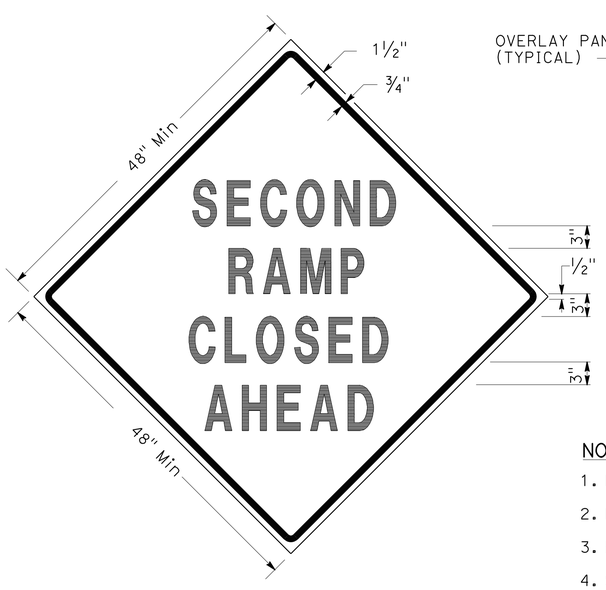
SIZE	BORDER WIDTH	MARGIN WIDTH	LETTER SIZE					CORNER RADIUS
			LINE 1	LINE 2*	LINE 3	LINE 4	LINE 5,6 & 7*	
48"x60"	1 1/4"	3/4"	4E	4D	6E	4D		3"
42"x26"	OVERLAY						3D	1 1/2"
* CONDENSED SPACING IF NECESSARY								

SIGN SP-4

NOTES: (SIGN SP-4)

1. LETTERS - 6" SERIES C.
2. LETTERS AND BORDERS - BLACK ON RETROREFLECTORIZED WHITE BACKGROUND.
3. BASE MATERIAL SHALL BE ALUMINUM (MINIMUM 0.06").
4. SIGNS SHALL BE PLACED AT RAMP ENTRANCES IN ADDITION TO SIGNS POSTED IN ACCORDANCE WITH STANDARD PLAN T14.

SPECIAL SIGN FOR ENTRANCE RAMP CLOSURES



SIGN SP-3

SIGN SP-5

NOTES: (SIGNS SP-3 & SP-5)

1. LETTERS - 6" SERIES D.
2. LETTERS AND BORDERS - BLACK ON RETROREFLECTORIZED ORANGE BACKGROUND.
3. BASE MATERIAL SHALL BE ALUMINUM (MINIMUM 0.06").
4. SIGNS SHALL BE MOUNTED WITH BOTTOMS OF SIGNS A MINIMUM OF 6' ABOVE GROUND.

SPECIAL SIGN FOR EXIT RAMP CLOSURES

TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURES, DETOUR SIGNS AND MISCELLANEOUS DETAILS
SHEET 1 OF 2

NO SCALE

THD-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DTM

FUNCTIONAL SUPERVISOR: MARTIN OREGEL
CALCULATED-DESIGNED BY: JOCELYN C CHIANG
CHECKED BY: ALBERT K YU
REVISED BY: JC
DATE REVISED: 7/10

LAST REVISION 03-07-11
DATE PLOTTED => 07-MAR-2011
TIME PLOTTED => 13:20

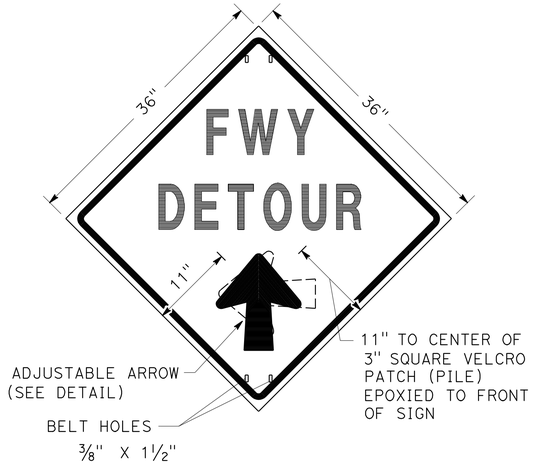
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	39.0/42.1	9	22

REGISTERED CIVIL ENGINEER 7-30-10 DATE

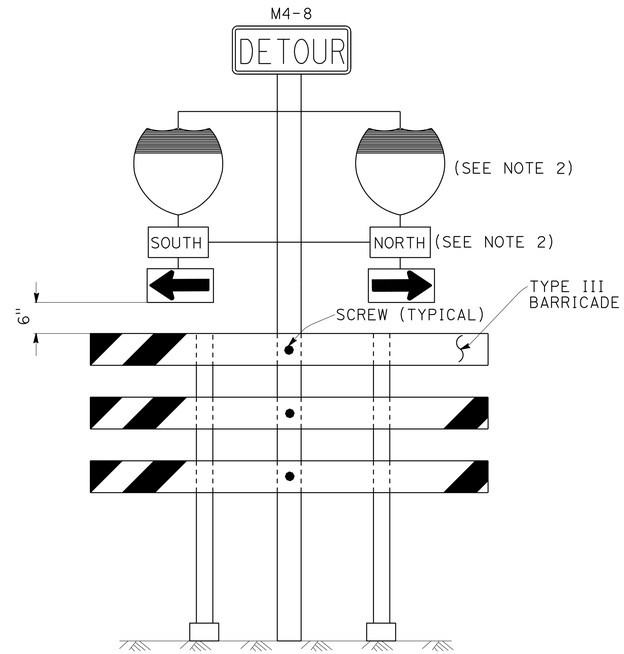
1-31-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MARTIN OREGEL No. C56816 Exp. 6-30-11 CIVIL STATE OF CALIFORNIA

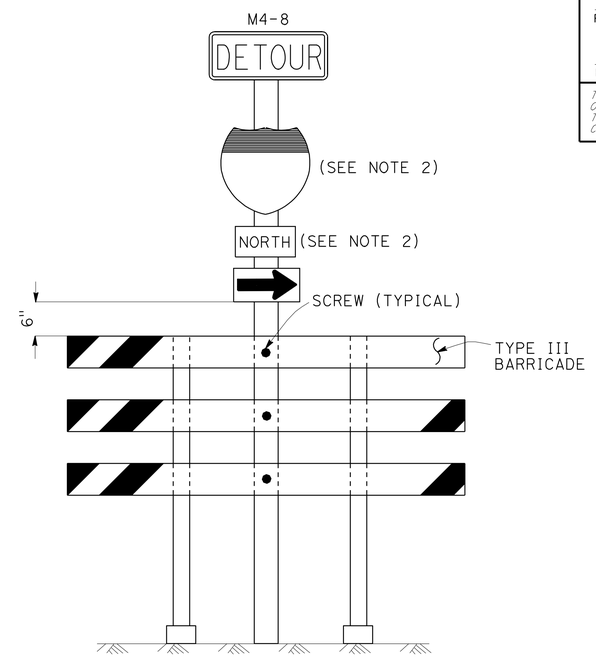
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



SIGN SP-2



SIGN SP-6 (SEE NOTE 1)



SIGN SP-7 (SEE NOTE 1)

NOTES: (SIGN SP-2)

1. LETTERS -6" SERIES E.
2. LETTERS, BORDER AND ARROW - BLACK ON RETROREFLECTORIZED ORANGE BACKGROUND.
3. BASE MATERIAL FOR SIGNS AND ARROWS SHALL BE ALUMINUM (MINIMUM 0.06").
4. BELTS (LUGGAGE STRAPS) SHALL BE 1" WIDE BY 48" LONG, MADE OF COTTON OR POLYPROPYLENE WEB MATERIAL.
5. SIGNS SHALL BE MOUNTED WITH BOTTOMS OF SIGNS A MINIMUM OF 6' ABOVE GROUND EXCEPT AS OTHERWISE SHOWN ON OTHER TRAFFIC HANDLING DETAILS PLANS.

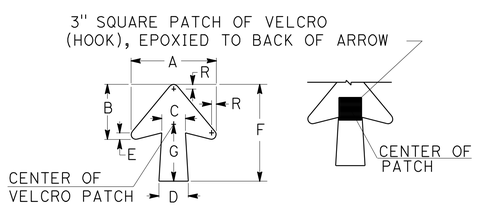
ABBREVIATION

(CA) CALIFORNIA CODE

NOTES: (SIGNS SP-6 & SP-7)

1. IN LIEU OF PLACING SIGNS ON TYPE III BARRICADES, SIGNS, INCLUDING POSTS, MAY BE PLACED INTO THE GROUND OR FASTENED ONTO ELECTROLIERS.
2. USE APPROPRIATE ROUTE SHIELD [G26-2(CA), G27-2(CA), G28-2(CA)] AND CARDINAL DIRECTION [NORTH (M3-1), SOUTH (M3-3), EAST (M3-2), WEST (M3-4)]

SPECIAL PORTABLE FREEWAY DETOUR SIGNS



DIMENSIONS							
A	B	C	D	E	F	G	R
11 1/4"	7 1/4"	3 1/8"	4"	7/8"	13"	7 1/2"	5/8"

SPECIAL PORTABLE FREEWAY DETOUR SIGN

ADJUSTABLE ARROW DETAIL

TRAFFIC HANDLING DETAILS

TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURES, DETOUR SIGNS AND MISCELLANEOUS DETAILS

SHEET 2 OF 2

NO SCALE

THD-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DTM
FUNCTIONAL SUPERVISOR MARTIN OREGEL
CALCULATED-DESIGNED BY ALBERT K YU
CHECKED BY JOCELYN C CHIANG
REVISED BY JC
DATE REVISED 7/10

LAST REVISION 03-07-11
DATE PLOTTED => 07-MAR-2011
TIME PLOTTED => 13:21

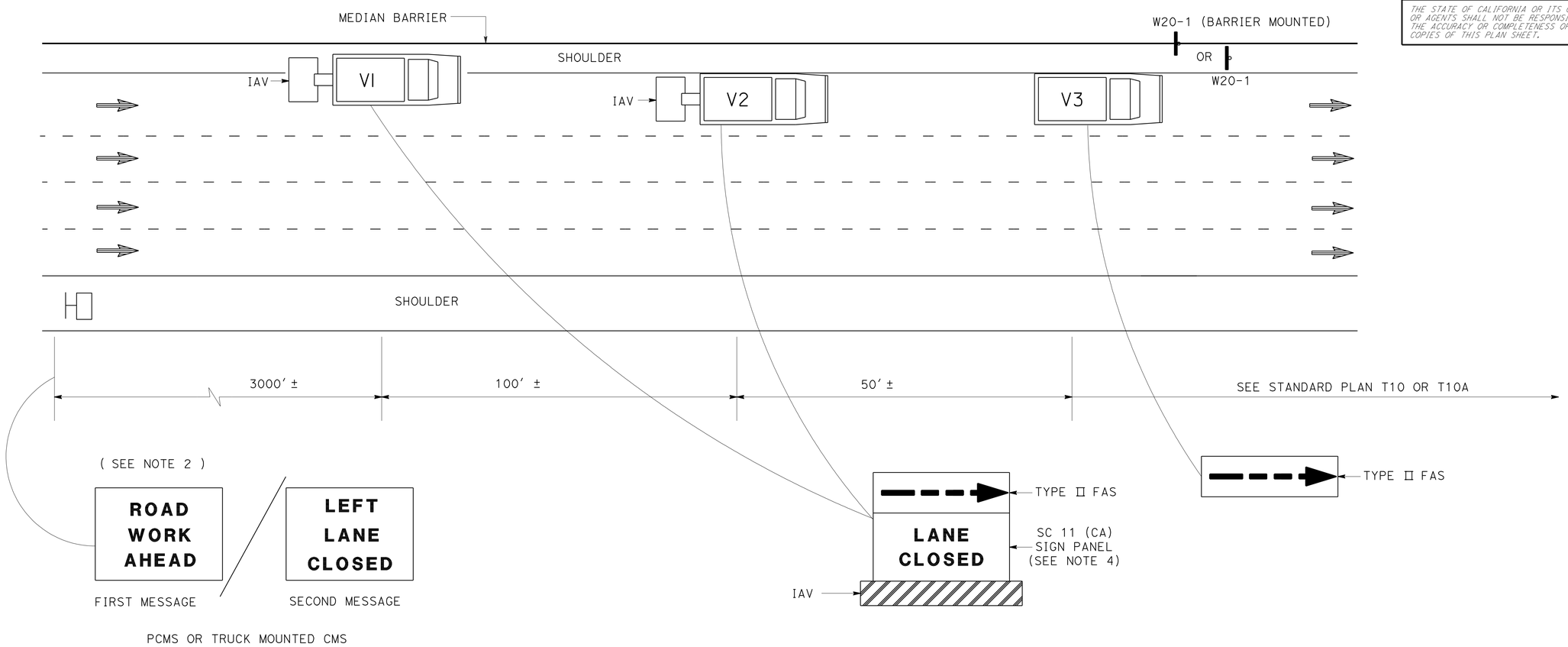
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	39.0/42.1	10	22

REGISTERED CIVIL ENGINEER 7-30-10 DATE

1-31-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MARTIN OREGEL No. C56816 Exp. 6-30-11 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. LANE CLOSURES SHALL NOT BE PLACED ON CREST VERTICAL CURVES OR ON HORIZONTAL CURVES.
2. PCMS SHALL BE ACTIVATED PRIOR TO TRAFFIC CONTROL ACTIVITIES ON THE LANE.
3. A MINIMUM SIGHT DISTANCE OF 1500′ SHALL BE PROVIDED IN ADVANCE OF PCMS.
4. VEHICLE-MOUNTED SIGN PANELS SHALL BE TYPE III OR IV RETROREFLECTORIZED SHEETING, BLACK ON WHITE OR BLACK ON ORANGE WITH 8" MINIMUM SERIES D LETTERS PER CALTRANS SIGN SPECIFICATIONS.

LEGEND:

V1, V2	SHADOW VEHICLE
V3	WORK/APPLICATION VEHICLE
	PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
	DIRECTION OF TRAVEL
	CONSTRUCTION AREA SIGN

ABBREVIATIONS:

FAS	FLASHING ARROW SIGN
IAV	IMPACT ATTENUATOR VEHICLE
CMS	CHANGEABLE MESSAGE SIGN
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN
(CA)	CALIFORNIA CODE

TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM FOR MEDIAN SHOULDERS LESS THAN 8 FEET

NO SCALE

THD-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DTM
FUNCTIONAL SUPERVISOR: MARTIN OREGEL
CALCULATED-DESIGNED BY: ALBERT K YU
CHECKED BY: JOCELYN C CHIANG
REVISED BY: JC
DATE REVISED: 7/10

LAST REVISION 03-07-11
DATE PLOTTED => 07-MAR-2011
TIME PLOTTED => 13:21

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	39.0/42.1	11	22

REGISTERED CIVIL ENGINEER 7-30-10 DATE

1-31-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MARTIN OREGEL No. C56816 Exp. 6-30-11 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. WORDING DISPLAYED ON PCMS WILL BE APPROVED BY THE ENGINEER.
2. EXACT LOCATIONS OF PCMS WILL BE DETERMINED BY THE ENGINEER.
3. CHANGE PCMS MESSAGE AT THE BEGINNING OF CURE PERIOD TO REFLECT NUMBER OF CLOSED LANES.

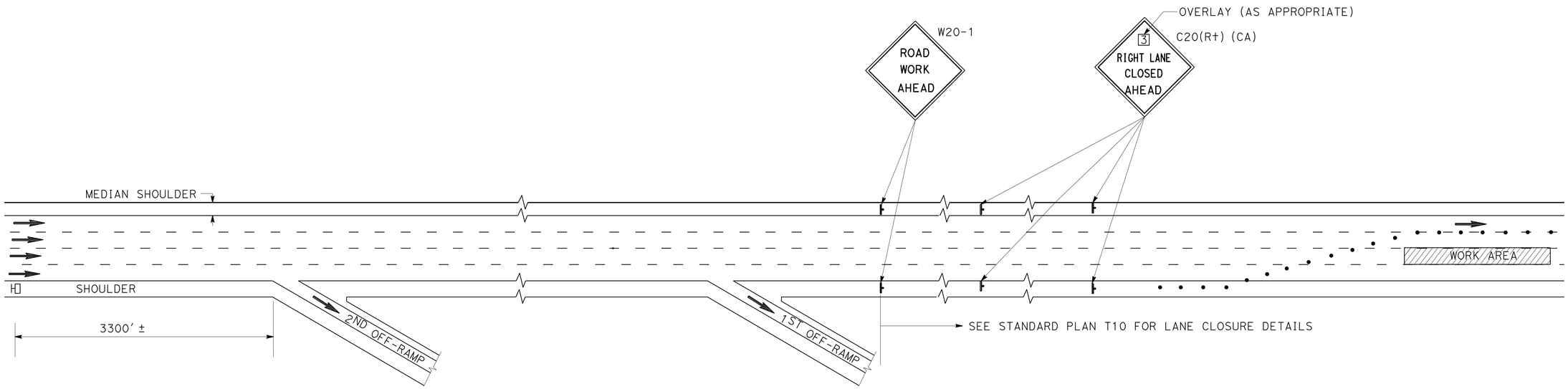
ABBREVIATIONS:

PCMS PORTABLE CHANGEABLE MESSAGE SIGN

(CA) CALIFORNIA CODE

LEGEND:

- • CONE
- PORTABLE SIGN
- DIRECTION OF TRAVEL
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
- (CA) CALIFORNIA CODE



FIRST FLASH MESSAGE	X (NO OF LANES) RIGHT/LEFT	1ST LINE (TYPICAL)
	LANES	2ND LINE (TYPICAL)
	CLOSED	3RD LINE (TYPICAL)
SECOND FLASH MESSAGE	A ST	LIMIT OF CLOSURE (TYPICAL)
	TO	
	B DR	LIMIT OF CLOSURE (TYPICAL)

WORDING FOR PORTABLE CHANGEABLE MESSAGE SIGN

TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM FOR CONCRETE PAVEMENT AND APPROACH SLAB REPLACEMENT

NO SCALE

THD-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DTM

FUNCTIONAL SUPERVISOR: MARTIN OREGEL
CALCULATED-DESIGNED BY: ALBERT K YU
CHECKED BY: JOCELYN C CHIANG
REVISED BY: JC
DATE REVISED: 7/10

LAST REVISION 03-07-11
DATE PLOTTED => 07-MAR-2011
TIME PLOTTED => 13:21

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	39.0/42.1	12	22

REGISTERED CIVIL ENGINEER 7-30-10 DATE

1-31-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MARTIN OREGEL No. C56816 Exp. 6-30-11 CIVIL STATE OF CALIFORNIA

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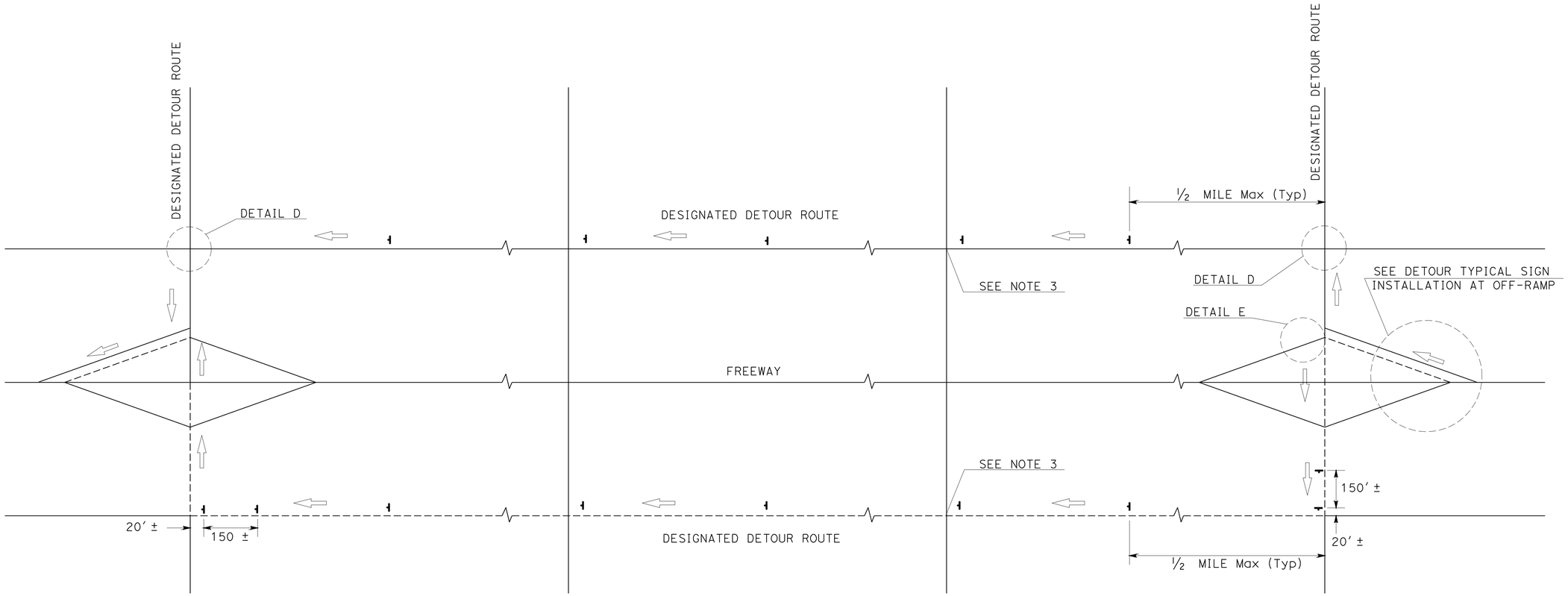

TYPICAL DETOUR SIGN INSTALLATION ALONG DESIGNATED DETOUR ROUTE

LEGEND:

- TEMPORARY SIGN (SP-2)
- AND/OR DESIGNATED DETOUR ROUTE
- DIRECTION OF TRAVEL

NOTES:

1. SP-2 SIGNS SHALL NOT BE INSTALLED ON BARRICADES EXCEPT AS OTHERWISE SHOWN.
2. SIGN LOCATIONS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
3. SP-2 SIGNS SHALL BE POSTED AT SIGNALIZED INTERSECTIONS ALONG THE DESIGNATED DETOUR ROUTE OR ½ MILE MAXIMUM APART.

TRAFFIC HANDLING DETAILS

TRAFFIC CONTROL SYSTEM FOR DETOUR SIGN INSTALLATION ALONG DESIGNATED DETOUR ROUTE SHEET 1 OF 2

NO SCALE

THD-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DTM

FUNCTIONAL SUPERVISOR: MARTIN OREGEL
CALCULATED-DESIGNED BY: ALBERT K YU
CHECKED BY: JOCELYN C CHIANG
REVISED BY: JC
DATE REVISED: 7/10

LAST REVISION 03-07-11 | DATE PLOTTED => 07-MAR-2011 | TIME PLOTTED => 13:21

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	39.0/42.1	13	22

REGISTERED CIVIL ENGINEER 7-30-10 DATE

1-31-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MARTIN OREGEL No. C56816 Exp. 6-30-11 CIVIL STATE OF CALIFORNIA

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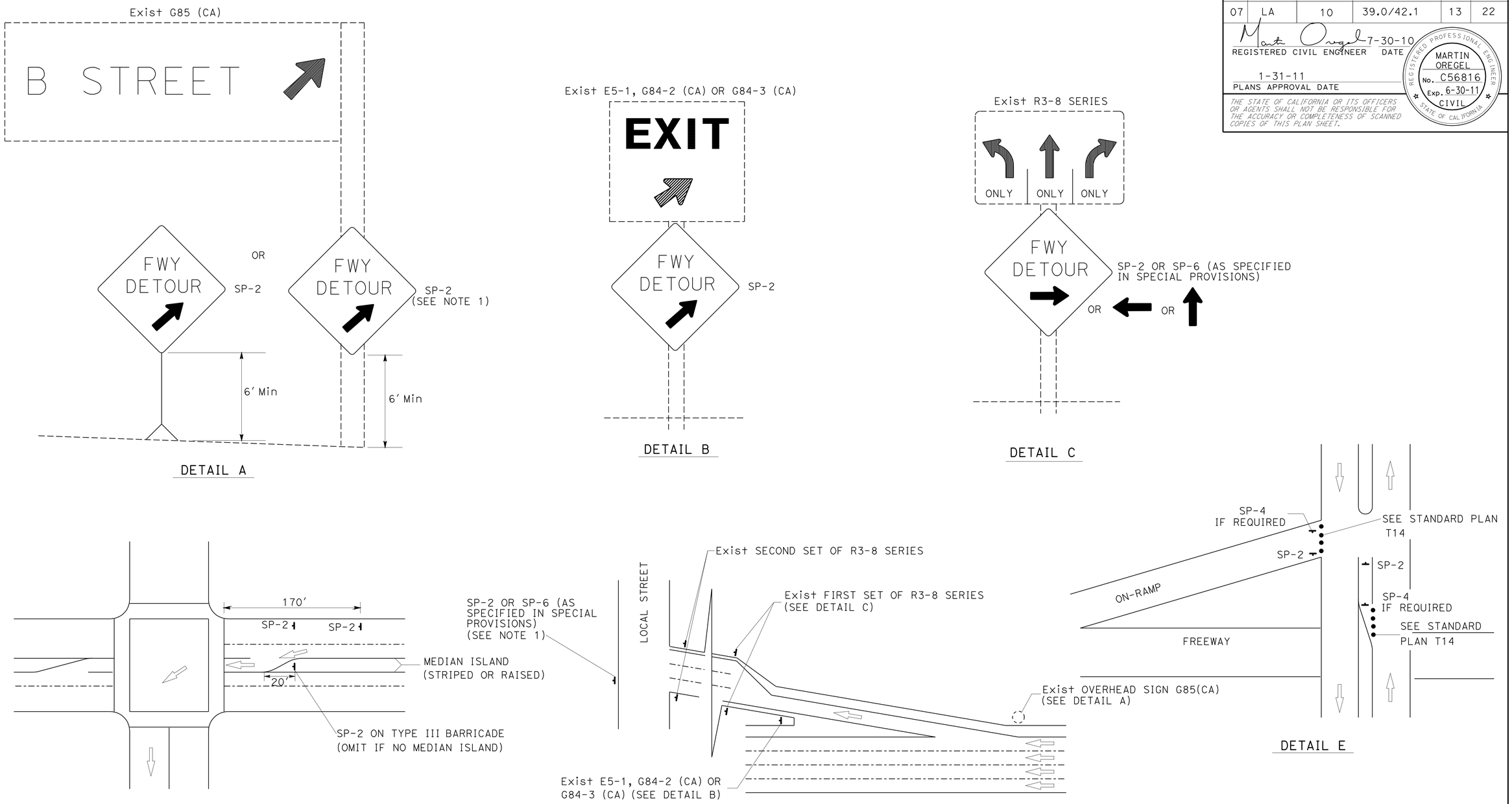

TYPICAL DETOUR SIGN INSTALLATION AT OFF-RAMP

NOTE:

1. TEMPORARY SIGNS MAY BE STRAPPED ON EXISTING ELECTROLIER, SIGNAL POSTS, OR SIGN POSTS.

ABBREVIATIONS:

(CA) CALIFORNIA CODE

LEGENDS:

- • TRAFFIC CONE
- TEMPORARY SIGN
- DIRECTION OF TRAVEL
- EXISTING OVERHEAD SIGN

TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM FOR DETOUR SIGN INSTALLATION ALONG DESIGNATED DETOUR ROUTE
SHEET 2 OF 2

NO SCALE

THD-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DTM

FUNCTIONAL SUPERVISOR: MARTIN OREGEL
CALCULATED-DESIGNED BY: ALBERT K YU
CHECKED BY: JOCELYN C CHIANG
REVISED BY: JC
DATE REVISED: 7/10

LAST REVISION 03-07-11
DATE PLOTTED => 07-MAR-2011
TIME PLOTTED => 13:22

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	39.0/42.1	14	22

REGISTERED CIVIL ENGINEER 1-3-11 DATE

1-31-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
GHASSAN BASHOURA
No. C 53065
Exp. 6-30-11
CIVIL
STATE OF CALIFORNIA

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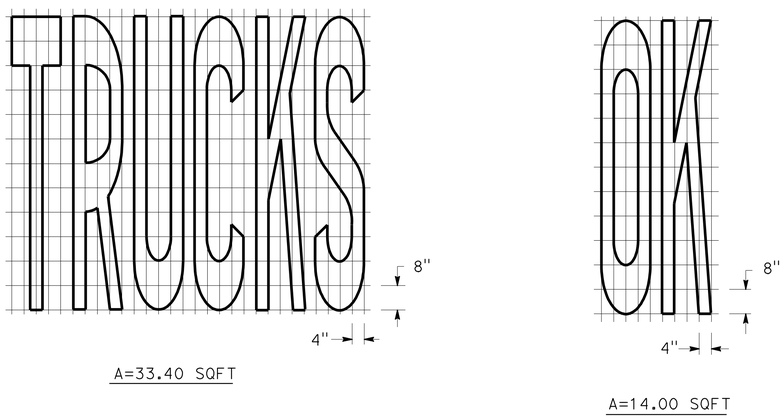
LEGEND:

← DIRECTION OF TRAVEL

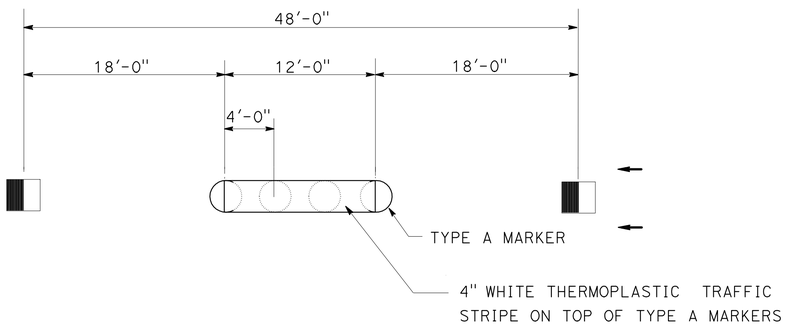
TYPE G MARKER



A=33.40 SQFT

A=14.00 SQFT

PAVEMENT MARKING TYPICAL DETAIL



DETAIL 13 (MODIFIED)

PAVEMENT DELINEATION DETAILS

NO SCALE

PDD-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: LARRY WIERING

CALCULATED-DESIGNED BY: GHASSAN BASHOURA
CHECKED BY: LARRY WIERING

REVISED BY
DATE REVISED

LAST REVISION 03-07-11 | DATE PLOTTED => 07-MAR-2011 | TIME PLOTTED => 13:22

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	39.0/42.1	15	22

REGISTERED CIVIL ENGINEER 1-3-11 DATE

1-31-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER GHASSAN BASHOURA No. C 53065 Exp. 6-30-11 CIVIL STATE OF CALIFORNIA

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NOTES:

1. (N) = NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.
2. WEAKENED PLANE JOINT TO WEAKENED PLANE JOINT CONSTITUTES ONE SLAB.

LEGEND:

1. (RSC) = RAPID STRENGTH CONCRETE
2. LCBRS = LEAN CONCRETE BASE RAPID SETTING

REPLACE CONCRETE PAVEMENT (RSC)

DESCRIPTION	DIRECTION	APPROXIMATE SLAB LOCATION FROM	TO	NUMBER OF SLABS (N) LANE NO. 1	2	3	4	5	REPLACE Conc Pvmt (RSC) 1	REPLACE Conc Pvmt (RSC) 2	DOWEL BAR	SEAL ISOLATION JOINT	REPAIR SPALLED JOINTS (POLYESTER GROUT)	LCBRS
		PM	PM	EA	EA	EA	EA	EA	CY	CY	EA	LF	SQYD	CY
HOLT Ave UC TO VIA VERDE UC	EB	39.0	40.5	1	1	2	5	25	149.6	17.9	435	408	17.3	
VIA VERDE UC TO KELLOG Dr UC	EB	40.5	42.1	1	3	18	20	20	199.5	98.0	794	740	23.1	
KELLOG Dr UC TO VIA VERDE UC	WB	40.5	42.1	1	1	58	58	37	465.3	267.3	1510	1855	56.4	70.0
VIA VERDE UC TO PM 40.09	WB	40.1	40.5	1	1	7	16		114.8	8.9	243	225	13.2	
SUB TOTAL				4	6	85	99	82	929.2	392.2	2982	3228	110	
TOTAL				276					1321.4		2982	3228	110	70.0

ROADWAY QUANTITIES

DIRECTION	LOCATION	GRIND EXISTING CONCRETE PAVEMENT	SEAL JOINT (EXISTING CONCRETE PAVEMENT)
		SQYD	LF
EB	HOLT Ave UC TO VIA VERDE UC (FULL FREEWAY WIDTH)	52,800	60,600
EB	VIA VERDE UC TO KELLOG Dr UC (FULL FREEWAY WIDTH)	43,648	50,610
WB	KELLOG Dr UC TO VIA VERDE UC (FULL FREEWAY WIDTH)	51,462	17,080
WB	VIA VERDE UC TO PM 40.09 (FULL FREEWAY WIDTH)	14,432	60,400
TOTAL		163,342	188,690

PAVEMENT DELINEATION QUANTITIES

ROUTE	DIRECTION	LOCATION (FROM/TO)	PAVEMENT MARKER DETAIL 13 (Mod) TYPE A NON-REFLECTIVE	13 (Mod) TYPE G RETROREFLECTIVE	25A TYPE H RETROREFLECTIVE	37 TYPE G RETROREFLECTIVE	THERMOPLASTIC TRAFFIC STRIPE DETAIL 13 (Mod) 4" WHITE (BROKEN 36-12)	37 8" WHITE (BROKEN 12-3)	27B 4" WHITE	THERMOPLASTIC PAVEMENT MARKING TRUCKS	OK	TYPE VI ARROW	REMOVE PAVEMENT MARKER
			EA				LF			SQFT			EA
10	EB	HOLT Ave UC TO VIA VERDE UC	2,644	661	166		31,680		7,920				5,125
10	EB	VIA VERDE UC TO KELLOG Dr UC	2,195	549	140	50	26,190	700	6,547				4,412
10	WB	KELLOG Dr UC TO VIA VERDE UC	2,453	613	181		29,200		8,448	67	28	126	4,835
10	WB	VIA VERDE UC TO PM 40.09	725	181	46		8,660		2,164				1,406
SUB TOTAL			8,017	2,004	533	50	95,730		25,079	67	28	126	15,778
TOTAL			8,017	2,587			95,730	700	25,079	221			15,778

SUMMARY OF QUANTITIES

Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
MAINTENANCE ENGINEERING
Caltrans

FUNCTIONAL SUPERVISOR: LARRY WIERING
GHASSAN BASHOURA — LARRY WIERING
CALCULATED-DESIGNED BY — CHECKED BY
REVISED BY — DATE REVISED

LAST REVISION 03-07-11 | DATE PLOTTED => 07-MAR-2011 | TIME PLOTTED => 13:22

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	10	39.0/42.1	16	22

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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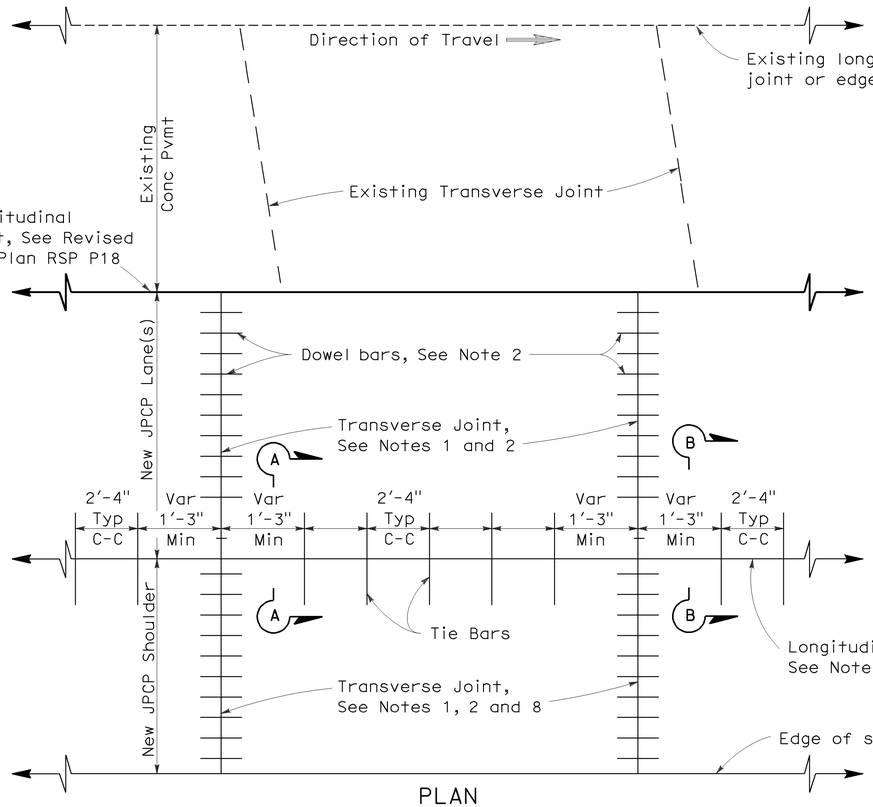
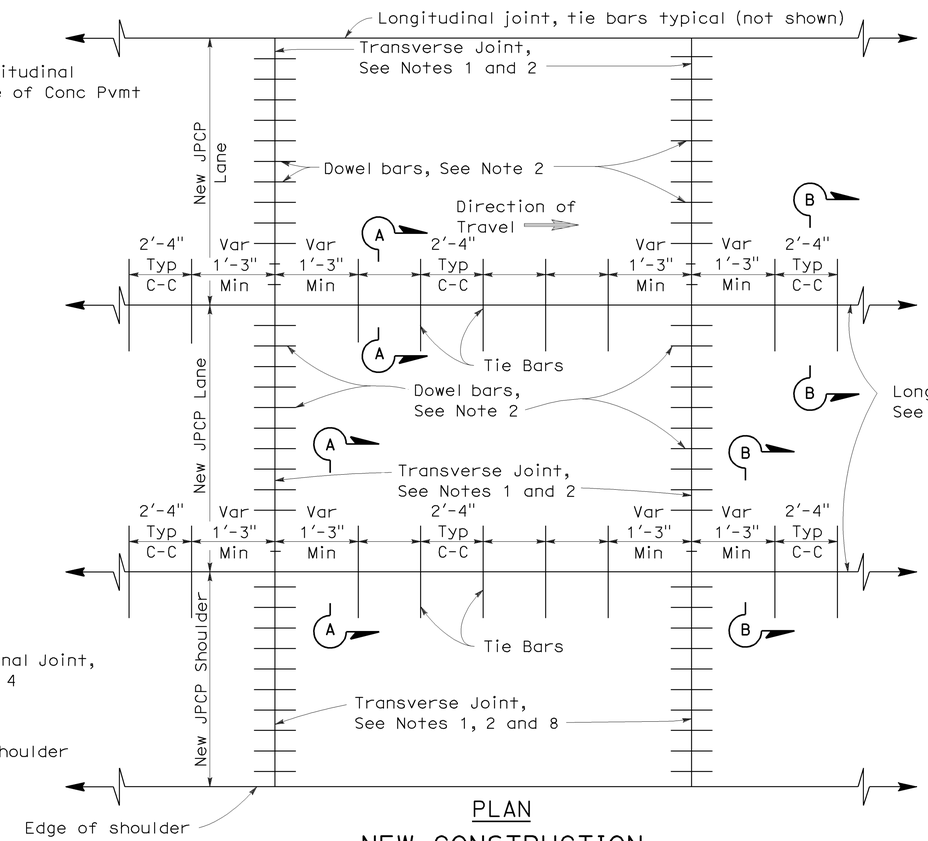
To accompany plans dated 1-31-11



PLAN

LANE/SHOULDER ADDITION OR RECONSTRUCTION

See Notes 6 and 7



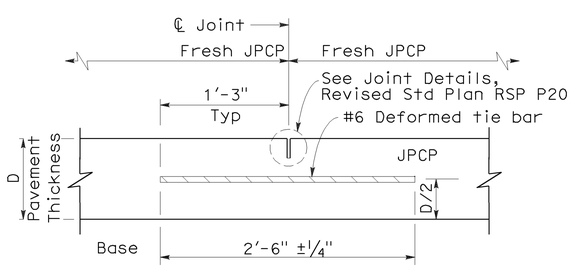
PLAN

NEW CONSTRUCTION

See Notes 6 and 7

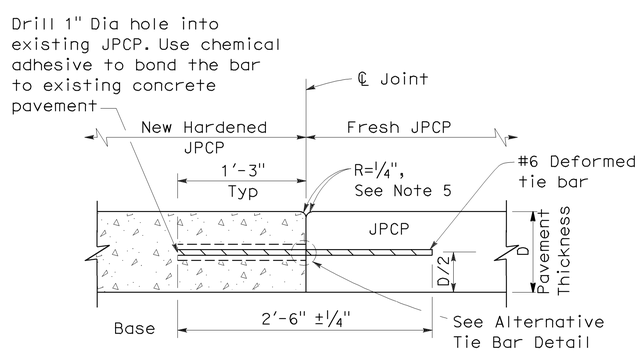
NOTES:

1. Transverse joints shall be constructed at right angles to the longitudinal pavement joints in new jointed plain concrete pavement and spaced at successive repeated intervals of 12', 15', 13' and 14'.
2. For transverse joint and dowel bar details not shown, See Revised Standard Plan RSP P10.
3. Construct longitudinal contraction joints as shown in Section A-A when more than one lane or shoulder widths are placed at one time. If constructing one lane at a time, use longitudinal construction joint, as shown in Section B-B.
4. For additional longitudinal joint details, see Revised Standard Plan RSP P18.
5. If fresh concrete is placed adjacent to existing concrete, the top corner of the new hardened concrete does not need to be rounded to the 1/4" radius as shown.
6. Joint spacing patterns do not apply to intersections.
7. Details can also apply to inside widening.
8. Dowel bars may be omitted from shoulders when the shoulder cross slope is not the same as the adjacent traffic lane.



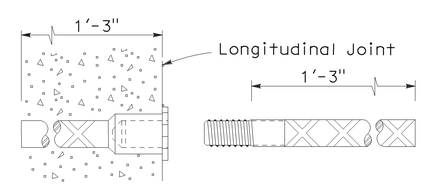
SECTION A-A

LONGITUDINAL CONTRACTION JOINT



SECTION B-B

LONGITUDINAL CONSTRUCTION JOINT



ALTERNATIVE TIE BAR SPLICE DETAIL

(Splice Coupler)

TIE BAR DETAILS

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

JOINTED PLAIN CONCRETE PAVEMENT

NO SCALE

RSP P1 DATED MAY 15, 2009 SUPERSEDES STANDARD PLAN P1
DATED MAY 1, 2006 - PAGE 119 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP P1

2006 REVISED STANDARD PLAN RSP P1

5-8-09

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	10	39.0/42.1	17	22

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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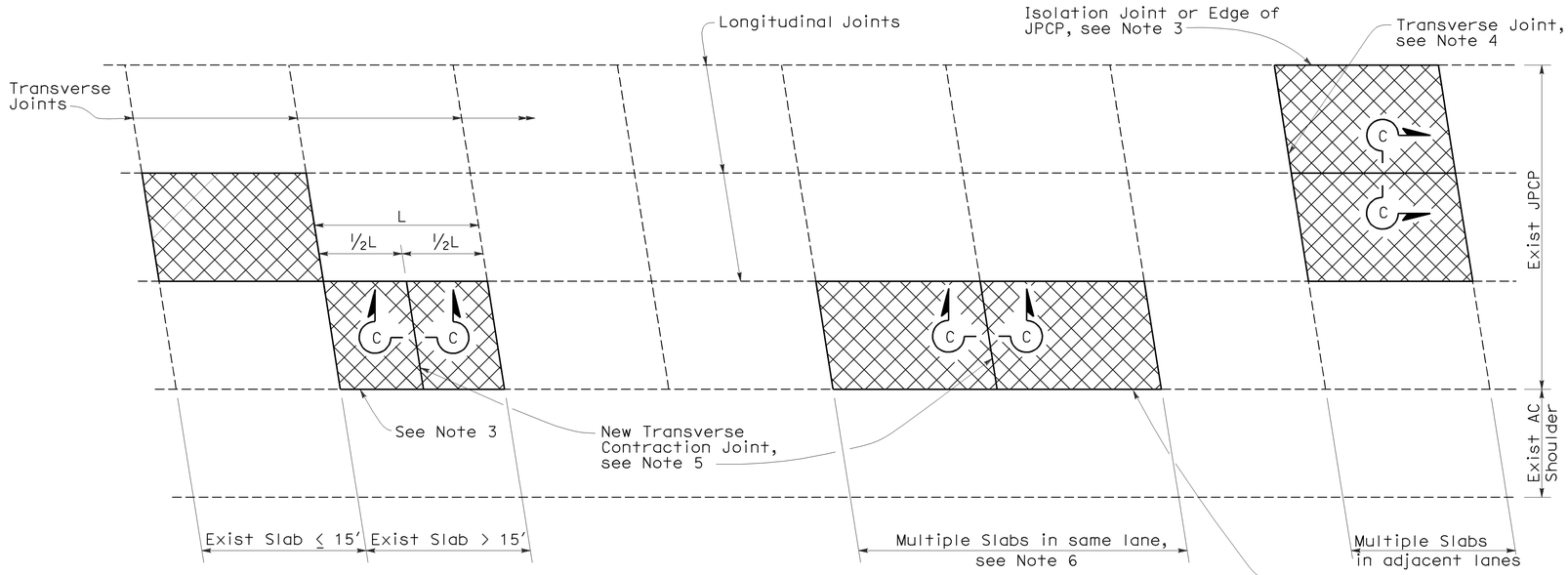


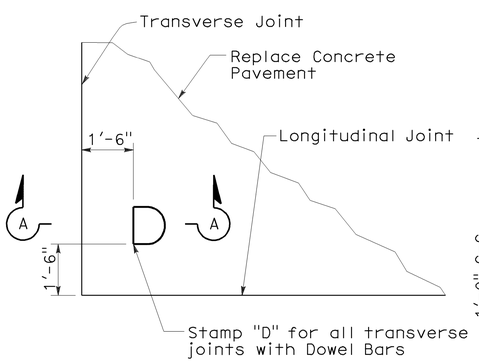
PLAN

NOTES:

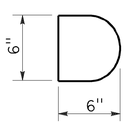
1. For details not shown, see Revised Standard Plan RSP P10.
2. Where the existing outer shoulder pavement is asphalt concrete pavement, the "a" dimension shall be 1′-0" and the "b" dimension shall be 2′-0".
3. Side forms shall be used where edge of pavement is adjacent to asphalt concrete.
4. For detail, 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′.

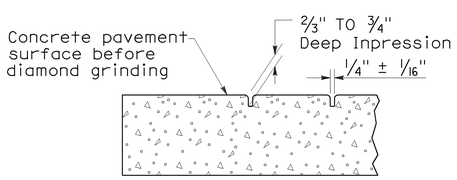
LEGEND

Replace Concrete Pavement (See Slab Layout Detail)

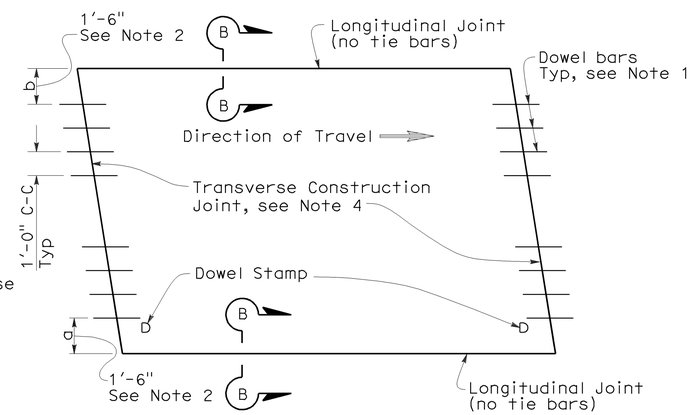


DOWEL STAMP DETAIL

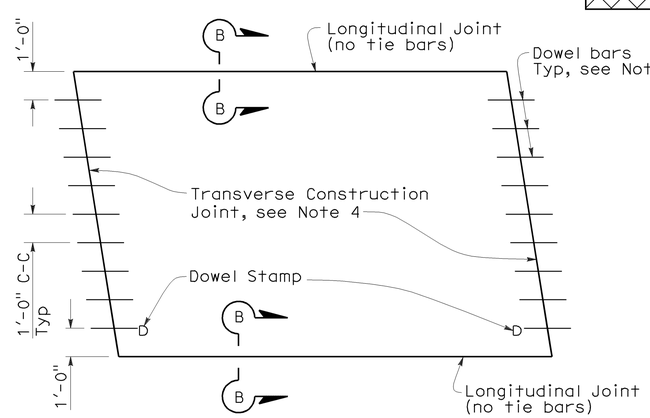




SECTION A-A

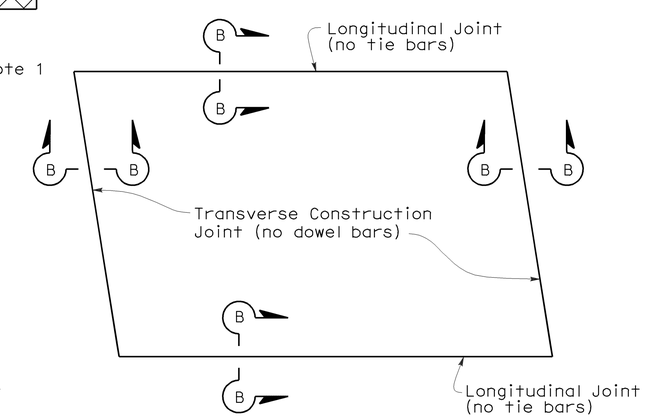


TYPE I
(traffic lane lines match longitudinal joints)

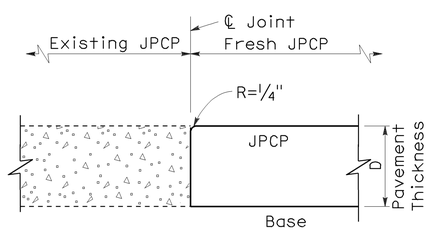


TYPE II
(traffic lane lines do not match longitudinal joints)

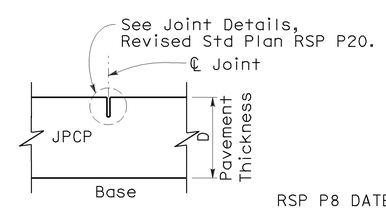
SLAB LAYOUT



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



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
07	LA	10	39.0/42.1	18	22

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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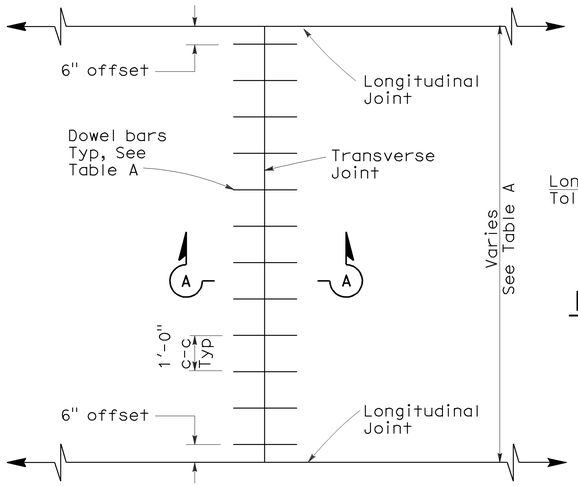
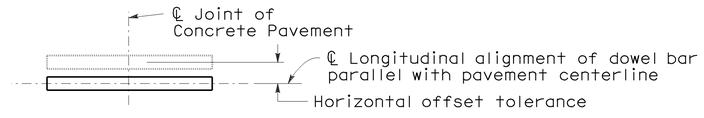
To accompany plans dated 1-31-11

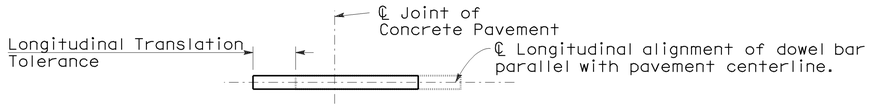


TRANSVERSE JOINT DOWEL BAR LAYOUT



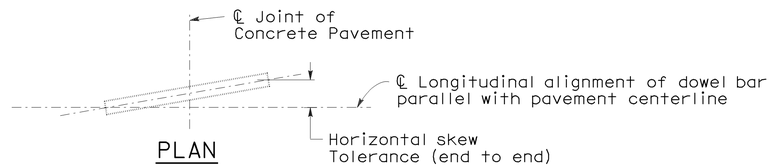
PLAN

HORIZONTAL OFFSET TOLERANCE



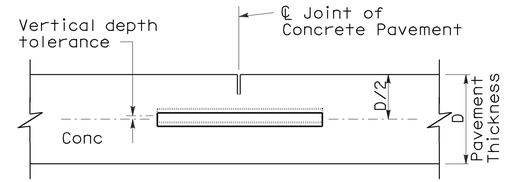
PLAN

LONGITUDINAL TRANSLATION TOLERANCE



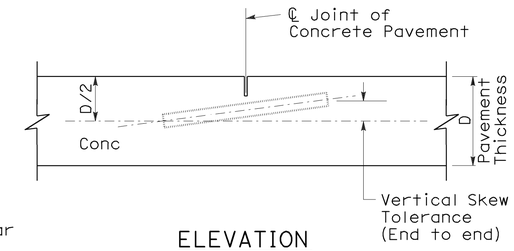
PLAN

HORIZONTAL SKEW TOLERANCE



ELEVATION

VERTICAL DEPTH TOLERANCE



ELEVATION

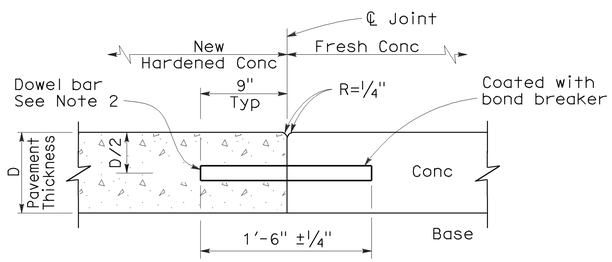
VERTICAL SKEW TOLERANCE

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.

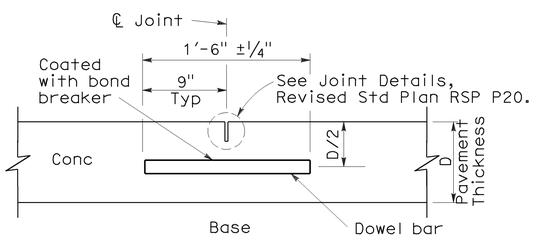
TABLE A (See Note 3)

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

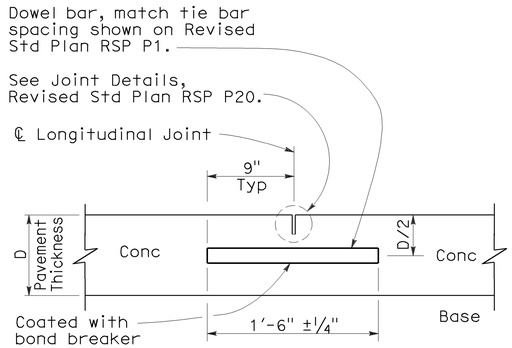


SECTION A-A

TRANSVERSE CONSTRUCTION JOINT DETAIL

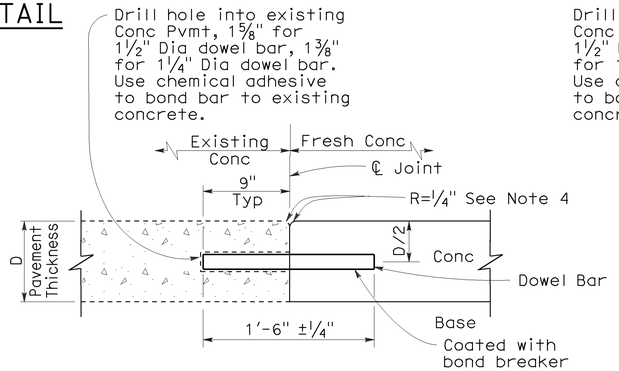


TRANSVERSE CONTRACTION JOINT



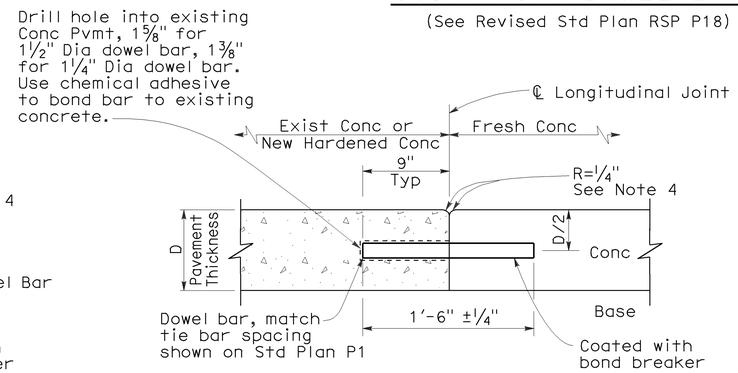
LONGITUDINAL CONTRACTION JOINT WITH DOWEL BARS

(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
07	LA	10	39.0/42.1	19	22

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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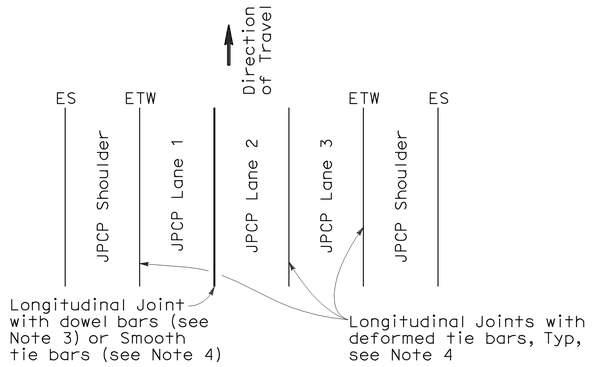
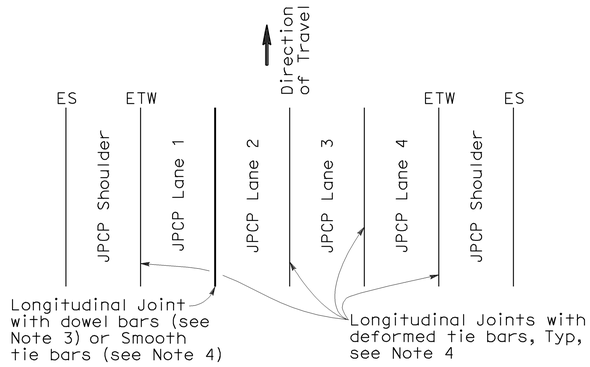
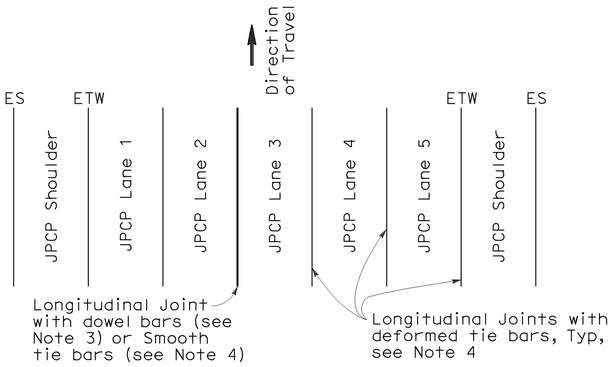
To accompany plans dated 1-31-11



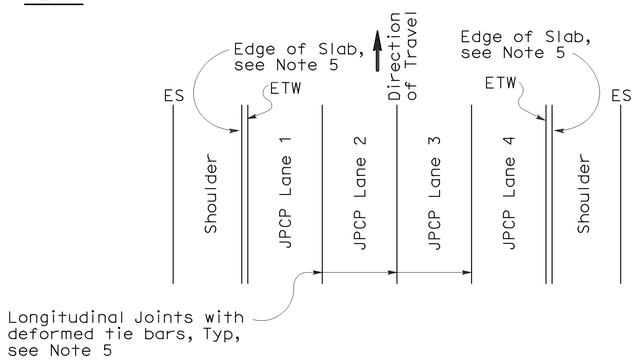
3 LANES WITH TIED CONCRETE SHOULDERS
PLAN



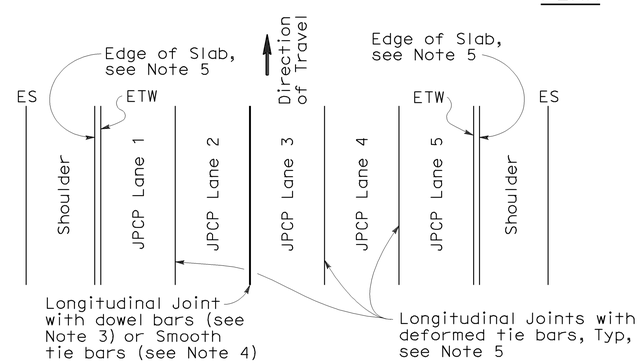
4 LANES WITH TIED CONCRETE SHOULDERS
PLAN



5 LANES WITH TIED CONCRETE SHOULDERS
PLAN



4 LANES OR LESS WITH WIDENED SLAB
PLAN



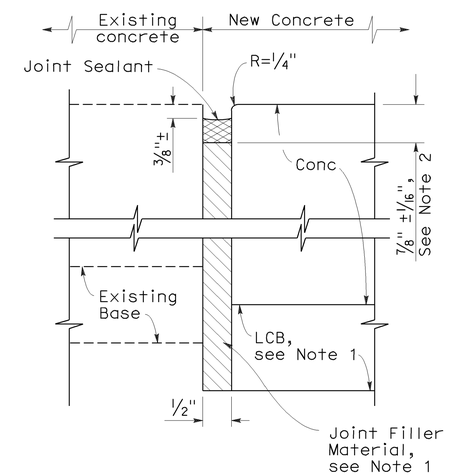
5 LANES WITH WIDENED SLAB
PLAN

NEW CONSTRUCTION

Location of Longitudinal Joints
(For JPCP)

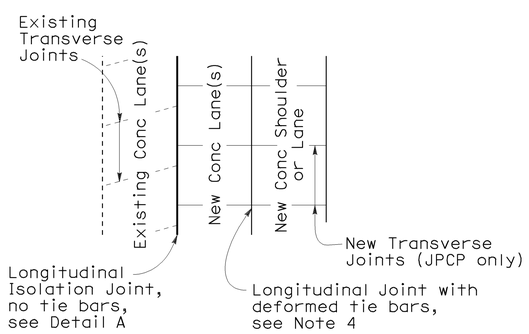
NOTES:

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.



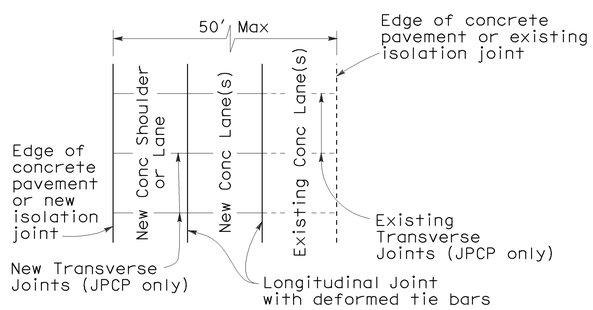
DETAIL A

ISOLATION JOINT



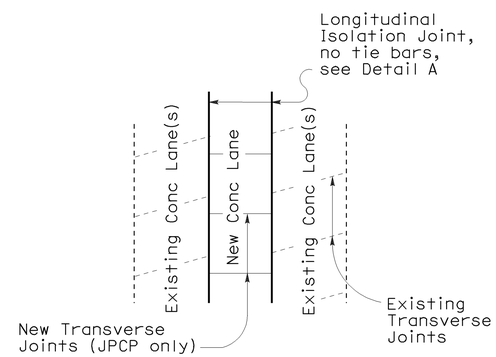
CASE 1
PLAN

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)

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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	10	39.0/42.1	20	22

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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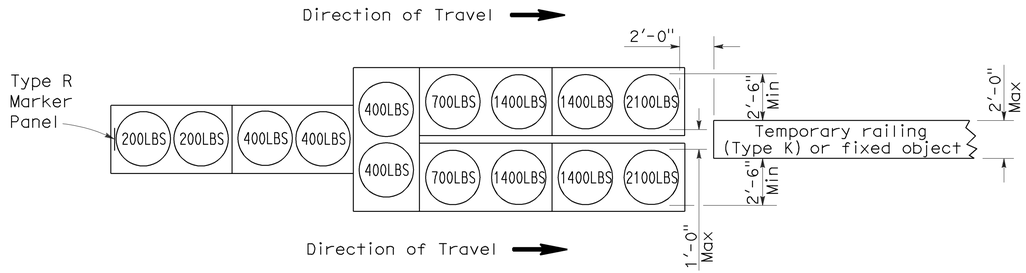
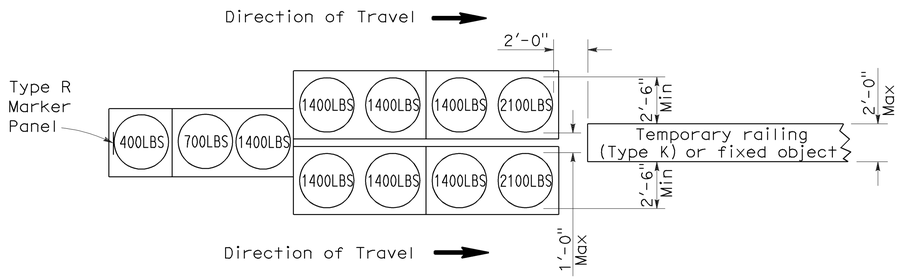
To accompany plans dated 1-31-11



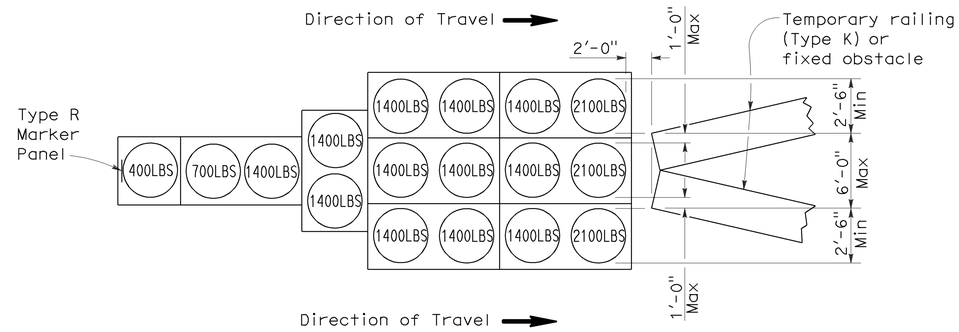
ARRAY 'TU14'

Approach speed 45 mph or more



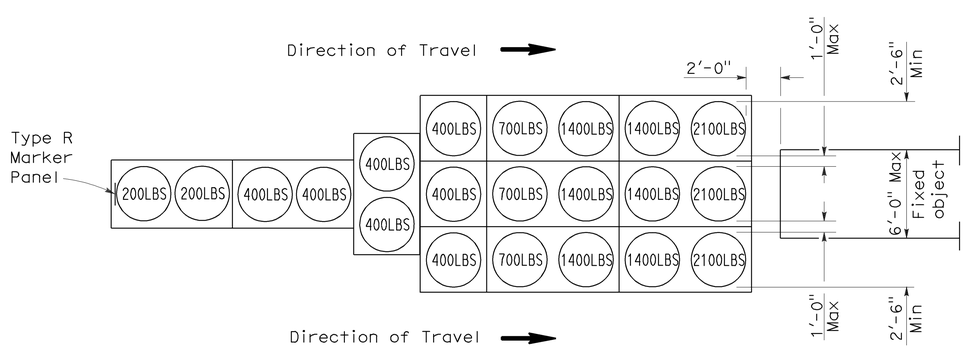
ARRAY 'TU11'

Approach speed less than 45 mph



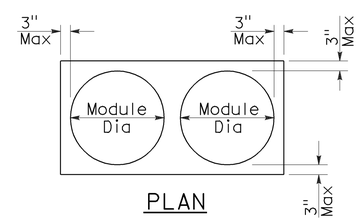
ARRAY 'TU17'

Approach speed less than 45 mph

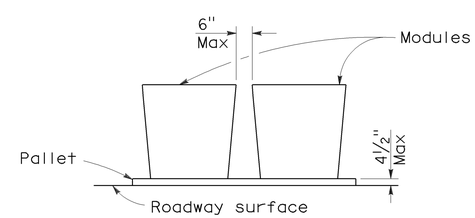


ARRAY 'TU21'

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
07	LA	10	39.0/42.1	21	22

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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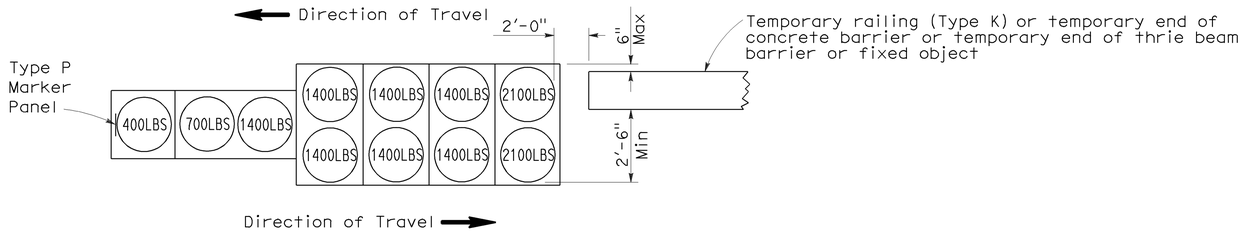
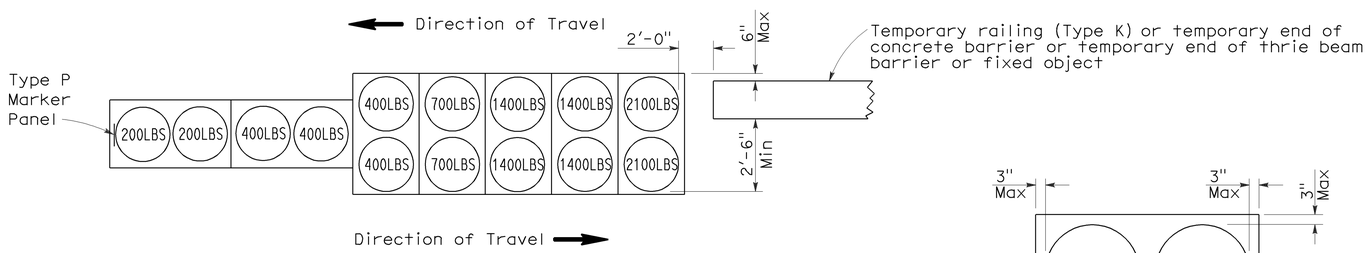
To accompany plans dated 1-31-11



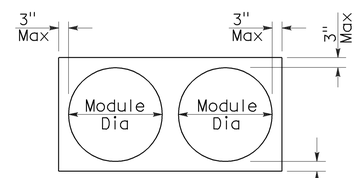
ARRAY 'TB11'

Approach speed less than 45 mph

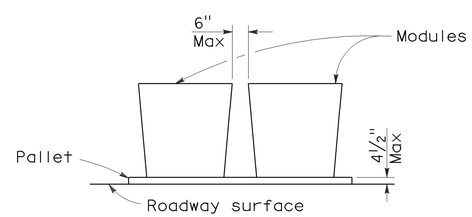


ARRAY 'TB14'

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
07	LA	10	39.0/42.1	22	22

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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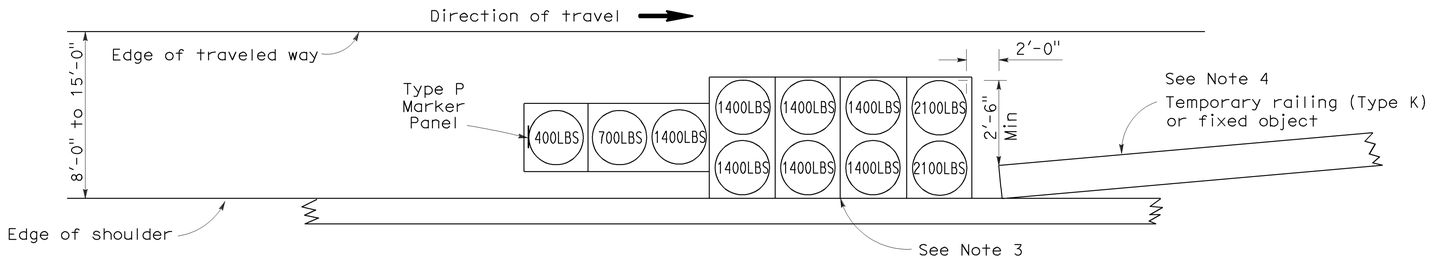
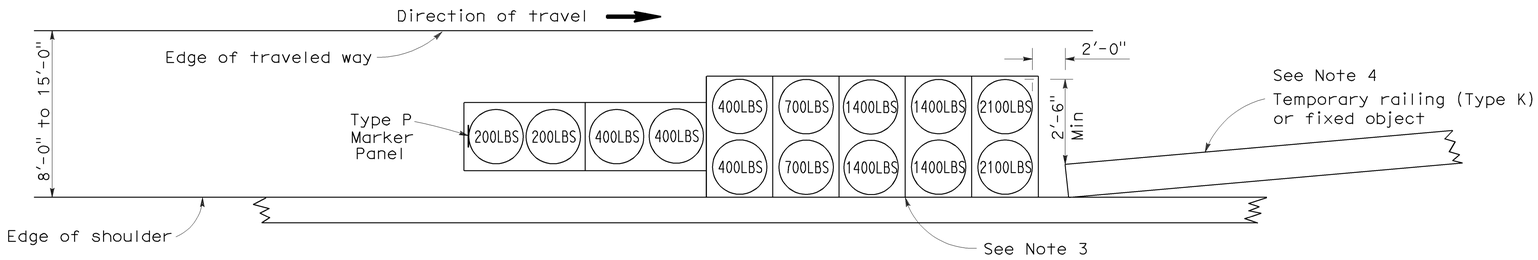
To accompany plans dated 1-31-11



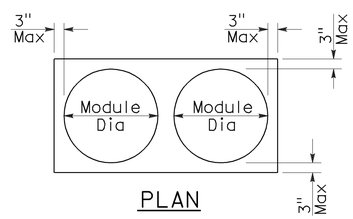
ARRAY 'TS11'

Approach speed less than 45 mph
See Note 9

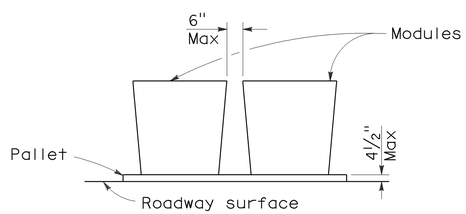


ARRAY 'TS14'

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