

INDEX OF PLANS

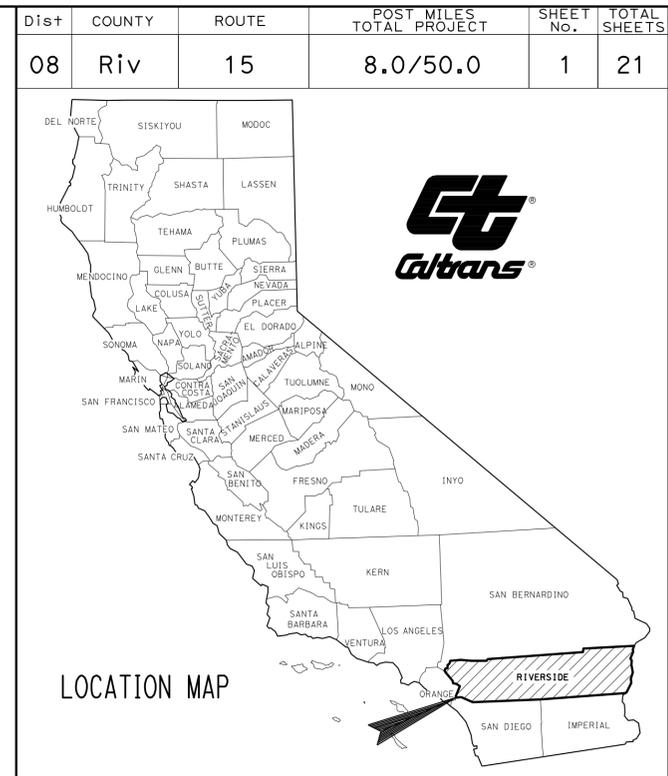
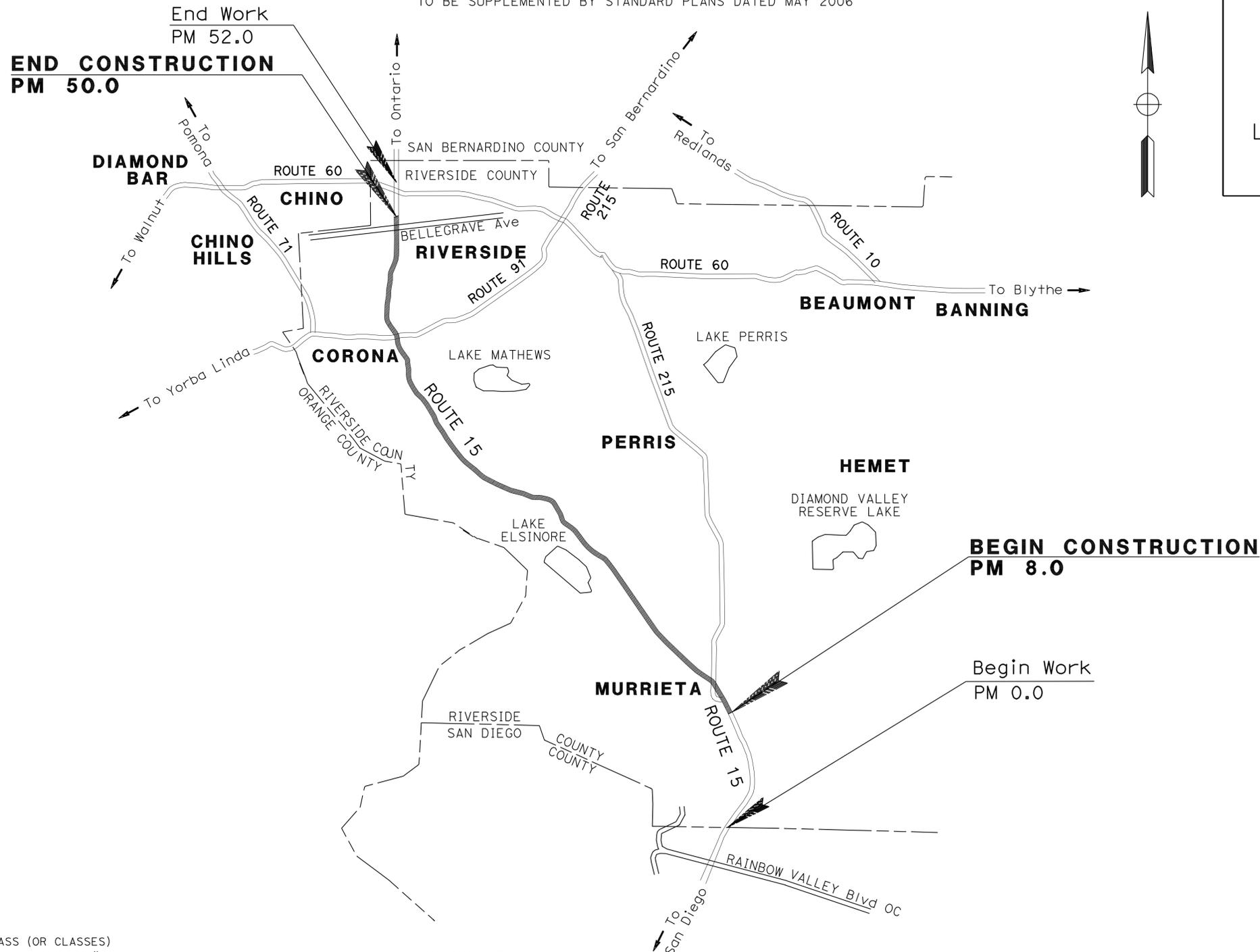
SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	TYPICAL CROSS SECTIONS
3	CONSTRUCTION DETAILS
4-6	CONSTRUCTION AREA SIGNS
7	PAVEMENT DELINEATION QUANTITIES
8	SUMMARY OF QUANTITIES
9-11	ELECTRICAL PLANS
12-21	REVISED AND NEW STANDARD PLANS

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 RIVERSIDE COUNTY
IN RIVERSIDE, CORONA AND MURRIETA
FROM 0.3 MILE NORTH OF RAINBOW VALLEY BOULEVARD
OVERCROSSING TO 0.7 MILE NORTH OF BELLEGRAVE AVENUE

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



PROJECT MANAGER CATALINO PINING
DESIGN ENGINEER WILLIAM AMBROSE

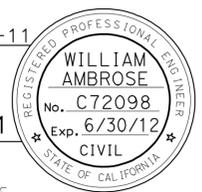
THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO BIDDERS."

NO SCALE



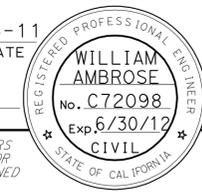
USERNAME => s102458
DGN FILE => 80p800ab001.dgn

William Ambrose 9-23-11
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER
September 26, 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.	08-0P8004
PROJECT ID	0800020032

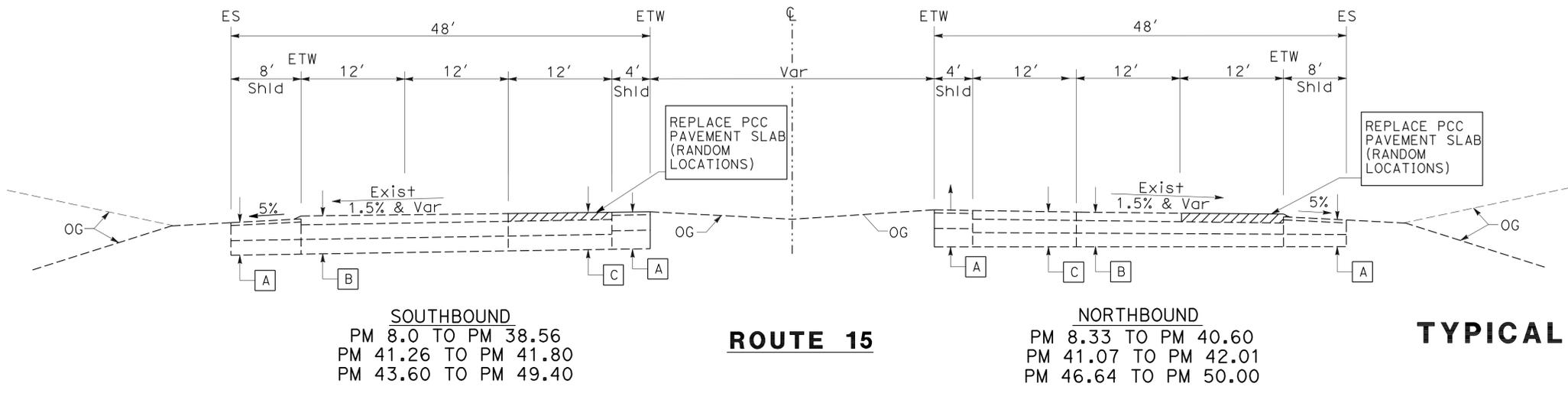
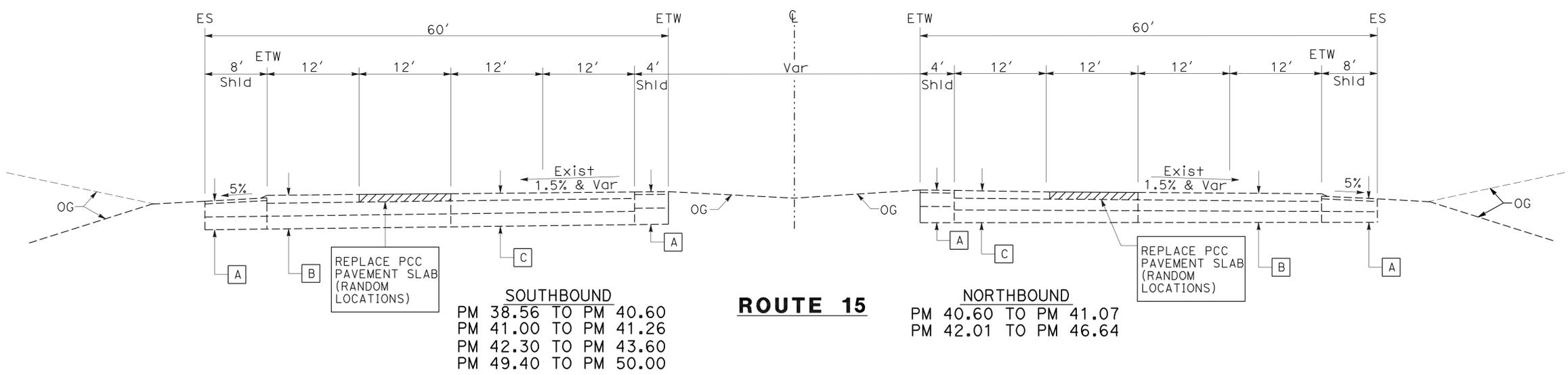
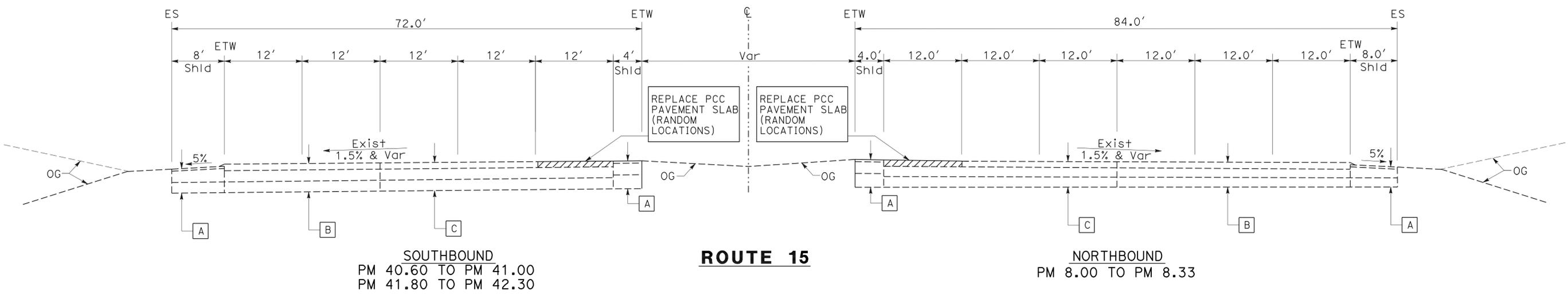
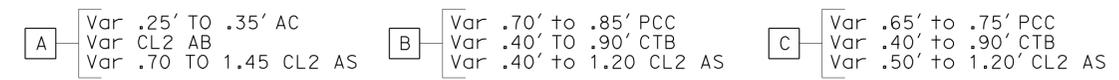
DATE PLOTTED => 20-SEP-2011
TIME PLOTTED => 10:19

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	15	8.0/50.0	2	21
			9-23-11	DATE	
REGISTERED CIVIL ENGINEER			PLANS APPROVAL DATE		
9-26-11			9-26-11		
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:

- DIMENSIONS OF THE STRUCTURAL SECTIONS ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
- SUPERELEVATIONS AS SHOWN OR AS DIRECTED BY THE ENGINEER.
- SEE SHEET Q-1 FOR LOCATION AND QUANTITY OF PCC SLAB REPLACEMENT.
- EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
- CONTRACTOR TO VERIFY EXISTING PAVEMENT STRUCTURAL SECTIONS.

Exist STRUCTURAL SECTIONS:



TYPICAL CROSS SECTIONS
NO SCALE
X-1

REVISOR	DATE	REVISION
WILLIAM AMBROSE	9-23-11	PLANS APPROVAL
KUANG H. CHEN		
FUNCTIONAL SUPERVISOR	DESIGNED BY	CHECKED BY
KEVIN CHEN	WILLIAM AMBROSE	KUANG H. CHEN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	Maintenance Engineering	

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	15	8.0/50.0	3	21

William Ambrose 9-23-11
 REGISTERED CIVIL ENGINEER DATE
 9-26-11
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
**WILLIAM
AMBROSE**
 No. C72098
 Exp. 6/30/12
 CIVIL
 STATE OF CALIFORNIA

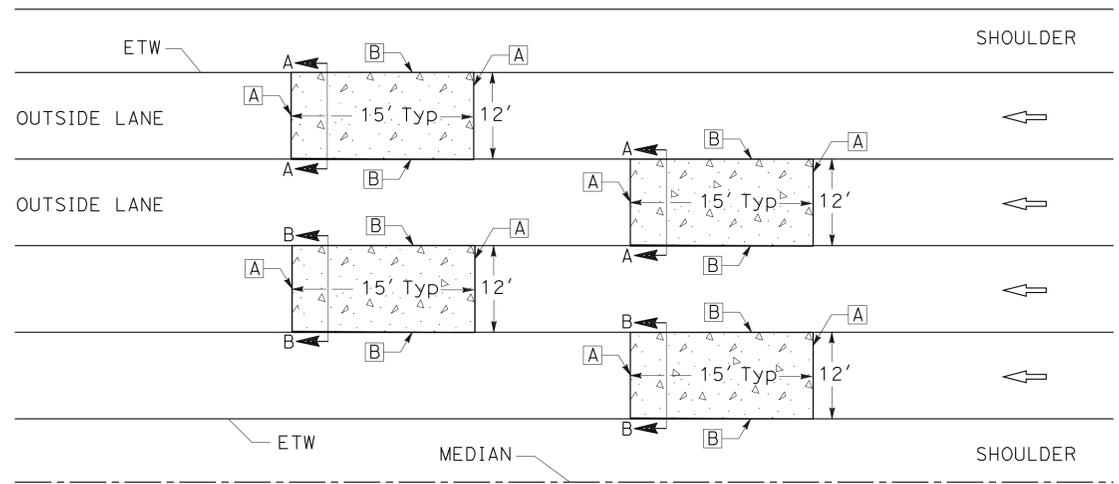
THE STATE OF CALIFORNIA OR ITS OFFICERS
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NOTES:

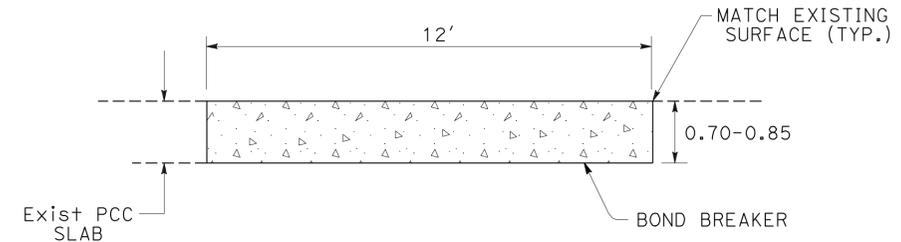
- FOR LOCATIONS OF THE PCC SLAB REPLACEMENT, SEE SHEET Q-1.
- TYPICAL PCC SLAB DIMENSION IS 12' x 15'.
- REMOVE EXISTING PCC SLABS WITH A NON-IMPACT METHOD.
- PROTECT-IN-PLACE EXISTING SUBBASE AND SUBGRADE DURING PCC SLAB REMOVAL.
- USE THE TYPE II SLAB LAYOUT OF REVISED STANDARD PLAN RSP P8.

LEGEND:

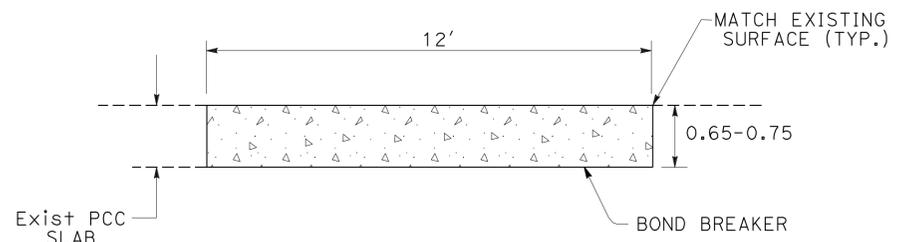
- A** EXISTING TRANSVERSE JOINT OR SAW CUT JOINT
- B** EXIST LONGITUDINAL JOINT
- ← DIRECTION OF TRAFFIC
-  REPLACE PCC SLAB



TYPICAL SLAB REPLACEMENT LIMITS



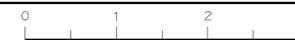
SECTION A-A
2 OUTSIDE LANES



SECTION B-B
INSIDE LANE(S)

CONSTRUCTION DETAILS
NO SCALE
C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING
 FUNCTIONAL SUPERVISOR: KEVIN CHEN
 CALCULATED/DESIGNED BY: WILLIAM AMBROSE
 CHECKED BY: KUANG H. CHEN
 REVISED BY: WILLIAM AMBROSE
 DATE REVISED:

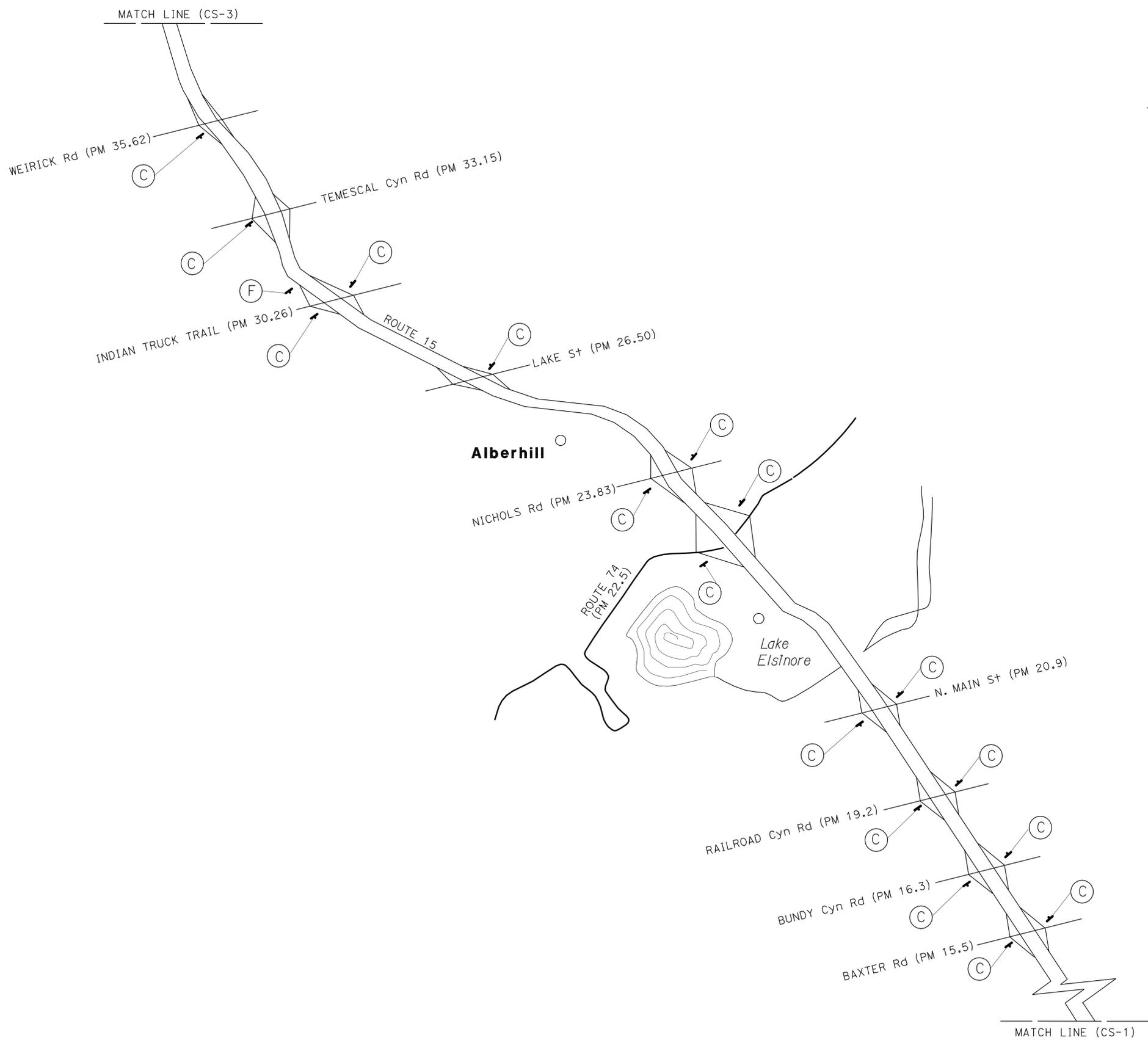


Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	15	8.0/50.0	5	21

Sidhartha Chowdhury 9-23-11
 REGISTERED CIVIL ENGINEER DATE
 9-26-11
 PLANS APPROVAL DATE

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

REGISTERED PROFESSIONAL ENGINEER
SIDARTHA CHOWDHURY
 No. C55418
 Exp. 12/31/12
 CIVIL
 STATE OF CALIFORNIA



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION Caltrans TRAFFIC DESIGN "B"	FUNCTIONAL SUPERVISOR	CHECKED BY	DESIGNED BY	SIDHARTHA CHOWDHURY	REVISOR	DATE	REVISION
	LARRY SARTORI	LARRY SARTORI	LARRY SARTORI	LARRY SARTORI	SIDHARTHA CHOWDHURY	06/11/07	

CONSTRUCTION AREA SIGNS
NO SCALE
CS-2

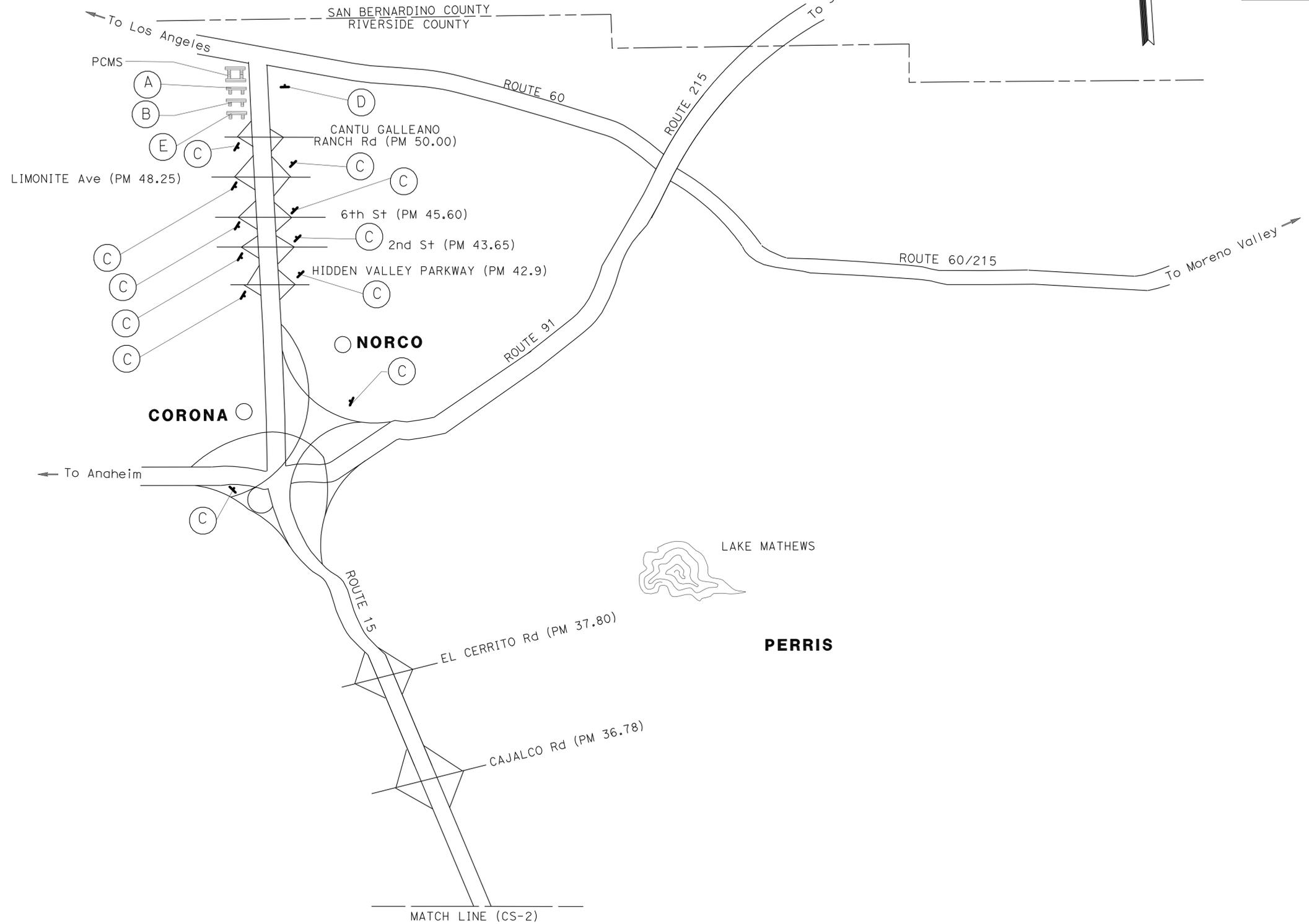
THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGNS ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC DESIGN "B"
 FUNCTIONAL SUPERVISOR: LARRY SARTORI
 CALCULATED/DESIGNED BY: LARRY SARTORI
 CHECKED BY:
 SIDHARTHA CHOWDHURY
 LARRY SARTORI
 REVISED BY: SIDHARTHA CHOWDHURY
 DATE REVISED: 06/11/07

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	15	8.0/50.0	6	21

9-23-11
 REGISTERED CIVIL ENGINEER DATE
 9-26-11
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER
 SIDHARTHA CHOWDHURY
 No. C55418
 Exp. 12/31/12
 CIVIL
 STATE OF CALIFORNIA



CONSTRUCTION AREA SIGNS
 NO SCALE
CS-3

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGNS ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	15	8.0/50.0	7	21

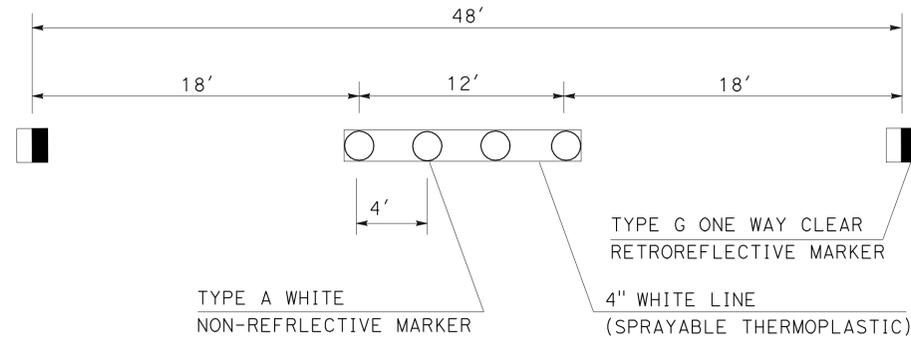
Sidhartha Chowdhury 9-23-11
 REGISTERED CIVIL ENGINEER DATE

9-26-11
 PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS
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NOTES:

- PAVEMENT MARKERS SHALL BE PLACED BEFORE SPRAYABLE THERMOPLASTIC STRIPE IS APPLIED.
- CONTRACTOR SHALL MAINTAIN THE EXISTING STRIPING PATTERN DURING RE-STRIPING.



DETAIL 13 MODIFIED (13M)

PAVEMENT DELINEATION QUANTITIES

LOCATION	PM	DIRECTION	STRIPING DETAIL No.	THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)		PAVEMENT MARKER		
				4" WHITE (FT)	4" YELLOW (FT)	NON REFLECTIVE		RETRO REFLECTIVE
						TYPE A EA	TYPE G EA	TYPE H EA
1	8.0/33.0	NORTHBOUND	13M	3520	250	300	75	6
			25					
			27B	2250				
2	38.0/50.0	NORTHBOUND	13M	400		36	9	
3	8.0/33.0	SOUTHBOUND	13M	3610	135	305	77	3
			25					
			27B	2735				
4	38.0/50.0	SOUTHBOUND	13M	855		72	18	
			25					
			27B	855				
SUB-TOTAL				14225	385	713	179	9
TOTAL					14610	713	901	

**PAVEMENT DELINEATION DETAILS
NO SCALE
PDD-1**

THIS PLAN ACCURATE FOR TRAFFIC HANDLING WORK ONLY



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	15	8.0/50.0	8	21

William Ambrose 9-23-11
 REGISTERED CIVIL ENGINEER DATE

9-26-11
 PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS
 OR AGENTS SHALL NOT BE RESPONSIBLE FOR
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NOTES:

1. POSTMILES ARE APPROXIMATE FOR EACH PCC SLAB REPLACEMENT.
2. EXACT LIMITS OF PCC SLAB REPLACEMENT SHALL BE DETERMINED BY THE ENGINEER.
3. CONTRACTOR IS RESPONSIBLE FOR VERIFYING SLAB DEPTH.

**REPLACE CONCRETE PAVEMENT
SLABS LOCATION TABLE**

POSTMILE		DIRECTION	NUMBER OF SLABS (N)
FROM	TO	NB/SB	TOTAL
8	10	SB	25
10	15	SB	66
15	20	SB	68
20	25	SB	24
25	30	SB	25
30	33	SB	30
38	40	SB	24
40	45	SB	23
45	50	SB	22
8	10	NB	21
10	15	NB	40
15	20	NB	23
20	25	NB	21
25	33	NB	29
38	40	NB	22
40	45	NB	21
45	50	NB	21
SUBTOTAL			505

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

PCC PAVEMENT QUANTITIES

POSTMILE		DIRECTION	SLAB REPLACEMENT		
			NUMBER OF PCC SLABS (N)	RAPID STRENGTH CONCRETE	DOWEL BAR DRILL AND BOND
FROM	TO		EA	CY	EA
8	50	SB	307	1,740	7,368
8	50	NB	198	1,122	4,752
TOTAL			505	2,862	12,120

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

MISCELLANEOUS QUANTITIES

ITEM	UNIT	QUANTITY
TEMPORARY FIBER ROLLS	LF	3000
TEMPORARY CONCRETE WASHOUT (PORTABLE)	LS	1

SUMMARY OF QUANTITIES

Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING
 FUNCTIONAL SUPERVISOR KEVIN CHEN
 CALCULATED/DESIGNED BY CHECKED BY
 WILLIAM AMBROSE KUANG H. CHEN
 REVISED BY DATE REVISED



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	15	8.0/50.0	9	21
 REGISTERED ELECTRICAL ENGINEER DATE			9-23-11		
PLANS APPROVAL DATE			9-26-11		
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NOTES:

1. POSTMILES ARE APPROXIMATE FOR EACH TMS ELEMENT. EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR AND RESIDENT ENGINEER.
2. BEFORE WORK IS PERFORMED, THE ENGINEER, THE CONTRACTOR, AND THE DEPARTMENT'S TRAFFIC OPERATIONS ELECTRICAL REPRESENTATIVES SHALL JOINTLY CONDUCT A PRE CONSTRUCTION OPERATIONAL STATUS CHECK OF ALL EXISTING TMS ELEMENTS AND EACH ELEMENT'S COMMUNICATION STATUS WITH THE TRAFFIC MANAGEMENT CENTER (TMC), INCLUDING EXISTING TMS ELEMENTS THAT ARE NOT SHOWN ON THE PLANS AND ELEMENTS THAT MAY NOT BE IMPACTED BY THE CONTRACTOR'S ACTIVITIES.
3. EXISTING TMS ELEMENTS, INCLUDING DETECTION SYSTEMS, LOCATED WITHIN THE PROJECT LIMITS SHALL REMAIN IN PLACE AND BE PROTECTED FROM DAMAGE. PCC SLAB REPLACEMENT SHOULD BE AVOIDED WITHIN 50 FEET ON BOTH SIDES OF THE DETECTION SYSTEM LIMITS.

EXISTING TMS ELEMENTS TO BE PROTECTED

ROUTE	COUNTY	APPROXIMATE POSTMILE	DIRECTION	LOCATION DESCRIPTION	DETECTOR TYPE	DETAIL
15	Riv	8.4	S	ROUTE 15/215 SEP	WIRELESS VEHICLE DETECTION SYSTEM	SEE DETAIL 'C' ON SHEET E-3
15	Riv	8.737	N & S	JCT ROUTE 215 NORTH	CENSUS LOOP STATION (STA. #901)	SEE DETAIL 'B' ON SHEET E-3
15	Riv	8.737	N & S	JCT ROUTE 215 NORTH	CENSUS LOOP STATION (STA. #807)	SEE DETAIL 'B' ON SHEET E-3
15	Riv	9.4	S	MURRIETA HOT SPRINGS Rd	WIRELESS VEHICLE DETECTION SYSTEM	SEE DETAIL 'C' ON SHEET E-3
15	Riv	9.6	N	MURRIETA HOT SPRINGS	WIRELESS VEHICLE DETECTION SYSTEM	SEE DETAIL 'C' ON SHEET E-3
15	Riv	10.3	S	CALIFORNIA OAKS Rd	WIRELESS VEHICLE DETECTION SYSTEM	SEE DETAIL 'C' ON SHEET E-3
15	Riv	10.8	N	CALIFORNIA OAKS Rd	WIRELESS VEHICLE DETECTION SYSTEM	SEE DETAIL 'C' ON SHEET E-3
15	Riv	11.6	N	S/O NUTMEG Rd	WIRELESS VEHICLE DETECTION SYSTEM	SEE DETAIL 'C' ON SHEET E-3
15	Riv	12.5	N	N/O NUTMEG Rd	WIRELESS VEHICLE DETECTION SYSTEM	SEE DETAIL 'C' ON SHEET E-3
15	Riv	13.3	S	CLINTON KEITH Rd	WIRELESS VEHICLE DETECTION SYSTEM	SEE DETAIL 'C' ON SHEET E-3
15	Riv	13.8	N	CLINTON KEITH Rd	WIRELESS VEHICLE DETECTION SYSTEM	SEE DETAIL 'C' ON SHEET E-3
15	Riv	14.3	N	S/O BAXTER Rd	WIRELESS VEHICLE DETECTION SYSTEM	SEE DETAIL 'C' ON SHEET E-3
15	Riv	14.8	S	BAXTER Rd	WIRELESS VEHICLE DETECTION SYSTEM	SEE DETAIL 'C' ON SHEET E-3
15	Riv	15.2	N	N/O BAXTER Rd	WIRELESS VEHICLE DETECTION SYSTEM	SEE DETAIL 'C' ON SHEET E-3
15	Riv	16	S	BUNDY CANYON Rd	WIRELESS VEHICLE DETECTION SYSTEM	SEE DETAIL 'C' ON SHEET E-3
15	Riv	16.4	N	BUNDY CANYON Rd	WIRELESS VEHICLE DETECTION SYSTEM	SEE DETAIL 'C' ON SHEET E-3
15	Riv	17.5	N	S/O OLIVE St UC	WIRELESS VEHICLE DETECTION SYSTEM	SEE DETAIL 'C' ON SHEET E-3
15	Riv	18.2	S	N/O OLIVE St UC SB	WIRELESS VEHICLE DETECTION SYSTEM	SEE DETAIL 'C' ON SHEET E-3
15	Riv	18.201	N	N/O OLIVE St UC NB	WIRELESS VEHICLE DETECTION SYSTEM	SEE DETAIL 'C' ON SHEET E-3
15	Riv	19	S	RAILROAD CANYON Rd	WIRELESS VEHICLE DETECTION SYSTEM	SEE DETAIL 'C' ON SHEET E-3
15	Riv	19.3	N	RAILROAD CANYON Rd	WIRELESS VEHICLE DETECTION SYSTEM	SEE DETAIL 'C' ON SHEET E-3
15	Riv	20.2	N	FRANKLIN St OC	WIRELESS VEHICLE DETECTION SYSTEM	SEE DETAIL 'C' ON SHEET E-3
15	Riv	20.7	S	MAIN St	WIRELESS VEHICLE DETECTION SYSTEM	SEE DETAIL 'C' ON SHEET E-3
15	Riv	20.962	N & S	NORTH OF MAIN St	WEIGH IN MOTION STATION (STA. #622)	SEE DETAIL 'D' ON SHEET E-3
15	Riv	21.1	N	MAIN St	WIRELESS VEHICLE DETECTION SYSTEM	SEE DETAIL 'C' ON SHEET E-3
15	Riv	22.1	S	CENTRAL Ave	WIRELESS VEHICLE DETECTION SYSTEM	SEE DETAIL 'C' ON SHEET E-3
15	Riv	22.4	N	CENTRAL Ave	WIRELESS VEHICLE DETECTION SYSTEM	SEE DETAIL 'C' ON SHEET E-3
15	Riv	23.7	S	NICHOLS Rd	WIRELESS VEHICLE DETECTION SYSTEM	SEE DETAIL 'C' ON SHEET E-3
15	Riv	23.9	N	NICHOLS Rd	WIRELESS VEHICLE DETECTION SYSTEM	SEE DETAIL 'C' ON SHEET E-3
15	Riv	24.7	S	S/O GAVILAN WASH	WIRELESS VEHICLE DETECTION SYSTEM	SEE DETAIL 'C' ON SHEET E-3
15	Riv	25.8	S	N/O GAVILAN WASH	WIRELESS VEHICLE DETECTION SYSTEM	SEE DETAIL 'C' ON SHEET E-3
15	Riv	26.6	S	LAKE St	WIRELESS VEHICLE DETECTION SYSTEM	SEE DETAIL 'C' ON SHEET E-3
15	Riv	27.1	N	LAKE St	WIRELESS VEHICLE DETECTION SYSTEM	SEE DETAIL 'C' ON SHEET E-3
15	Riv	28.0	S	TEMESCAL WASH	WIRELESS VEHICLE DETECTION SYSTEM	SEE DETAIL 'C' ON SHEET E-3
15	Riv	29.0	S	HORSETHIEF WASH	WIRELESS VEHICLE DETECTION SYSTEM	SEE DETAIL 'C' ON SHEET E-3

EXISTING TMS ELEMENTS TO BE PROTECTED

ROUTE	COUNTY	APPROXIMATE POSTMILE	DIRECTION	LOCATION DESCRIPTION	DETECTOR TYPE	DETAIL
15	Riv	29.7	N	INDIAN WASH	WIRELESS VEHICLE DETECTION SYSTEM	SEE DETAIL 'C' ON SHEET E-3
15	Riv	30.3	S	INDIAN TRUCK TRAIL	WIRELESS VEHICLE DETECTION SYSTEM	SEE DETAIL 'C' ON SHEET E-3
15	Riv	30.6	N	N/O INDIAN TRUCK TRAIL	WIRELESS VEHICLE DETECTION SYSTEM	SEE DETAIL 'C' ON SHEET E-3
15	Riv	31.4	S	TEMESCAL CANYON Rd UC	WIRELESS VEHICLE DETECTION SYSTEM	SEE DETAIL 'C' ON SHEET E-3
15	Riv	32.3	S	MAYHEW WASH	WIRELESS VEHICLE DETECTION SYSTEM	SEE DETAIL 'C' ON SHEET E-3
15	Riv	33.0	S	TEMESCAL CANYON Rd	WIRELESS VEHICLE DETECTION SYSTEM	SEE DETAIL 'C' ON SHEET E-3
15	Riv	33.4	N	TEMESCAL CANYON Rd	WIRELESS VEHICLE DETECTION SYSTEM	SEE DETAIL 'C' ON SHEET E-3
15	Riv	34.5	S	BROWN CANYON WASH	WIRELESS VEHICLE DETECTION SYSTEM	SEE DETAIL 'C' ON SHEET E-3
15	Riv	35.6	S	WEIRICK Rd	WIRELESS VEHICLE DETECTION SYSTEM	SEE DETAIL 'C' ON SHEET E-3
15	Riv	35.9	N	WEIRICK Rd	WIRELESS VEHICLE DETECTION SYSTEM	SEE DETAIL 'C' ON SHEET E-3
15	Riv	36.3	S	BEDFORD WASH	WIRELESS VEHICLE DETECTION SYSTEM	SEE DETAIL 'C' ON SHEET E-3
15	Riv	36.8	S	CAJALCO Rd	WIRELESS VEHICLE DETECTION SYSTEM	SEE DETAIL 'C' ON SHEET E-3
15	Riv	37.1	N	CAJALCO Rd	WIRELESS VEHICLE DETECTION SYSTEM	SEE DETAIL 'C' ON SHEET E-3
15	Riv	37.8	S	EL CERRITO Rd	WIRELESS VEHICLE DETECTION SYSTEM	SEE DETAIL 'C' ON SHEET E-3
15	Riv	38.020	N	EL CERRITO Rd	RAMP METER	SEE DETAIL 'A' ON SHEET E-2
15	Riv	38.693	N & S	CORONA, ONTARIO Ave	CENSUS LOOP STATION (STA. #849)	SEE DETAIL 'B' ON SHEET E-3
15	Riv	38.91	N	ONTARIO N/B ENTRANCE	RAMP METER	SEE DETAIL 'A' ON SHEET E-2
15	Riv	39.239	N	0.4 N/O ONTARIO Ave	SURVEILLANCE STATION	SEE DETAIL 'B' ON SHEET E-3
15	Riv	39.239	S	0.4 N/O ONTARIO Ave	SURVEILLANCE STATION	SEE DETAIL 'B' ON SHEET E-3
15	Riv	39.431	N	50' N/O Temescal OC	SURVEILLANCE STATION	SEE DETAIL 'B' ON SHEET E-3
15	Riv	39.431	S	OLD TEMESCAL	SURVEILLANCE STATION	SEE DETAIL 'B' ON SHEET E-3
15	Riv	39.693	N	.25 N/O OLD TEMESCAL	SURVEILLANCE STATION	SEE DETAIL 'B' ON SHEET E-3
15	Riv	39.693	S	OLD TEMESCAL Rd	SURVEILLANCE STATION	SEE DETAIL 'B' ON SHEET E-3
15	Riv	39.77	N	M 1.27 N/O ORLANDO	SURVEILLANCE STATION	SEE DETAIL 'B' ON SHEET E-3
15	Riv	39.77	S	M 1.27 N/O ORLANDO	SURVEILLANCE STATION	SEE DETAIL 'B' ON SHEET E-3
15	Riv	40.24	N	MAGNOLIA NB ENTRANCE	RAMP METER	SEE DETAIL 'A' ON SHEET E-2
15	Riv	40.38	N	MAGNOLIA N/B ENTRANCE	RAMP METER	SEE DETAIL 'A' ON SHEET E-2
15	Riv	41.0	N	.5 N/O MAGNOLIA	SURVEILLANCE STATION	SEE DETAIL 'B' ON SHEET E-3
15	Riv	41.0	S	.5 N/O MAGNOLIA	SURVEILLANCE STATION	SEE DETAIL 'B' ON SHEET E-3
15	Riv	41.015	N	100 FT S/O CORONA OC	SURVEILLANCE STATION	SEE DETAIL 'B' ON SHEET E-3
15	Riv	41.015	S	JCT 15/91	SURVEILLANCE STATION	SEE DETAIL 'B' ON SHEET E-3
15	Riv	41.458	N	1000 S/O JCT 15/91	SURVEILLANCE STATION	SEE DETAIL 'B' ON SHEET E-3
15	Riv	41.458	S	PARKRIDGE OC	SURVEILLANCE STATION	SEE DETAIL 'B' ON SHEET E-3
15	Riv	41.502	N & S	CORONA, JCT ROUTE 91	CENSUS LOOP STATION (STA. #155)	SEE DETAIL 'B' ON SHEET E-3
15	Riv	41.813	N	500' S/O PARKRIDGE	SURVEILLANCE STATION	SEE DETAIL 'B' ON SHEET E-3

MAINTAINING EXISTING TRAFFIC MANAGEMENT SYSTEM ELEMENTS DURING CONSTRUCTION

E-1

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	15	8.0/50.0	10	21

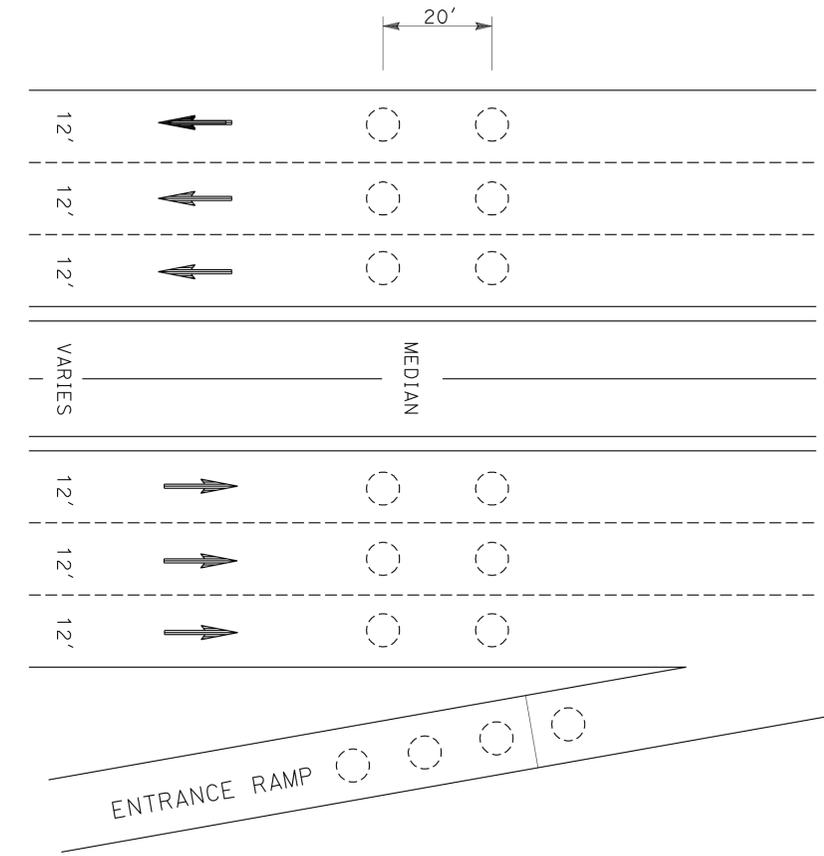
9-23-11
 REGISTERED ELECTRICAL ENGINEER DATE
 9-26-11
 PLANS APPROVAL DATE

MICHEAL APANTE
 No. E17164
 Exp. 9/30/11
 ELECTRICAL

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.

EXISTING TMS ELEMENTS TO BE PROTECTED

ROUTE	COUNTY	APPROXIMATE POSTMILE	DIRECTION	LOCATION DESCRIPTION	DETECTOR TYPE	DETAIL
15	Riv	42.734	S	HIDDEN VALLEY	RAMP METER	SEE DETAIL 'A' ON SHEET E-2
15	Riv	43.02	N	HIDDEN VALLEY	RAMP METER	SEE DETAIL 'A' ON SHEET E-2
15	Riv	43.477	S	2ND S/B ENTRANCE	RAMP METER	SEE DETAIL 'A' ON SHEET E-2
15	Riv	43.692	N	2nd St ONR	RAMP METER	SEE DETAIL 'A' ON SHEET E-2
15	Riv	43.967	N	.3 N/O 2ND	SURVEILLANCE STATION	SEE DETAIL 'B' ON SHEET E-3
15	Riv	44.194	N	400' N/O 3RD St	SURVEILLANCE STATION	SEE DETAIL 'B' ON SHEET E-3
15	Riv	44.662	N & S	NORCO, 4TH St	CENSUS LOOP STATION (STA. #156)	SEE DETAIL 'B' ON SHEET E-3
15	Riv	44.694	N	100 FT N/O 4TH St	SURVEILLANCE STATION	SEE DETAIL 'B' ON SHEET E-3
15	Riv	45.3	N	M .18 N/O FIFTH St	SURVEILLANCE STATION	SEE DETAIL 'B' ON SHEET E-3
15	Riv	45.3	S	M .18 N/O FIFTH St	SURVEILLANCE STATION	SEE DETAIL 'B' ON SHEET E-3
15	Riv	45.675	S	6 TH St SB	RAMP METER	SEE DETAIL 'A' ON SHEET E-2
15	Riv	45.775	N	6TH St NB ONR	RAMP METER	SEE DETAIL 'A' ON SHEET E-2
15	Riv	45.93	N	.25 N/O 6th St	SURVEILLANCE STATION	SEE DETAIL 'B' ON SHEET E-3
15	Riv	46.29	N	M 1.63 S/O LIMONITE Ave	SURVEILLANCE STATION	SEE DETAIL 'B' ON SHEET E-3
15	Riv	46.29	S	M 1.63 S/O LIMONITE Ave	SURVEILLANCE STATION	SEE DETAIL 'B' ON SHEET E-3
15	Riv	47.14	N & S	SOUTH OF LIMONITE Ave	CENSUS LOOP STATION (STA. #711)	SEE DETAIL 'B' ON SHEET E-3
15	Riv	47.43	N	.75 S/O LIMONITE Ave	SURVEILLANCE STATION	SEE DETAIL 'B' ON SHEET E-3
15	Riv	48.08	S	LIMONITE Ave SB ENTRANCE	RAMP METER	SEE DETAIL 'A' ON SHEET E-2
15	Riv	48.2	N	M .28 S/O LIMONITE Ave	SURVEILLANCE STATION	SEE DETAIL 'B' ON SHEET E-3
15	Riv	48.2	S	M .28 S/O LIMONITE Ave	SURVEILLANCE STATION	SEE DETAIL 'B' ON SHEET E-3
15	Riv	48.4	N	LIMEONITE Ave NB ENTRANCE	RAMP METER	SEE DETAIL 'A' ON SHEET E-2
15	Riv	49.22	N	.25 N/O LIMEONITE Ave	SURVEILLANCE STATION	SEE DETAIL 'B' ON SHEET E-3
15	Riv	49.52	N	M 2.04 S/O RIVERSIDE	SURVEILLANCE STATION	SEE DETAIL 'B' ON SHEET E-3
15	Riv	49.52	S	M 2.04 S/O RIVERSIDE	SURVEILLANCE STATION	SEE DETAIL 'B' ON SHEET E-3
15	Riv	49.8	S	CANTU-GALLEANO SB ENTRANCE	RAMP METER	SEE DETAIL 'A' ON SHEET E-2
15	Riv	49.85	S	1 MILE S/O 15/60 IC	SURVEILLANCE STATION	SEE DETAIL 'B' ON SHEET E-3
15	Riv	50.1	N	CANTU GALLEANO NB LP	RAMP METER	SEE DETAIL 'A' ON SHEET E-2
15	Riv	50.2	S	CANTU GALLEANO SB LP	RAMP METER	SEE DETAIL 'A' ON SHEET E-2
15	Riv	50.841	N	.4 S/O 15/60 IC	SURVEILLANCE STATION	SEE DETAIL 'B' ON SHEET E-3
15	Riv	51.474	N & S	JCT ROUTE 60	CENSUS LOOP STATION (STA. #159)	SEE DETAIL 'B' ON SHEET E-3
15	Riv	52.1	N	M 1.2 S/O JURUPA St	SURVEILLANCE STATION	SEE DETAIL 'B' ON SHEET E-3
15	Riv	52.1	S	M 1.2 S/O JURUPA St	SURVEILLANCE STATION	SEE DETAIL 'B' ON SHEET E-3



MAINTAINING EXISTING TRAFFIC MANAGEMENT SYSTEM ELEMENTS DURING CONSTRUCTION

NO SCALE

E-2

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

ELECTROLIERS

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

NOTES:

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

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

STANDARD NOTES:

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

ABBREVIATIONS AND EQUIPMENT DESIGNATIONS

PROPOSED EXISTING

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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	15	8.0/50.0	12	21

Jeffery G. McRae
REGISTERED ELECTRICAL ENGINEER

October 5, 2007
PLANS APPROVAL DATE

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

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To accompany plans dated 9-26-11

SOFFIT AND WALL MOUNTED LUMINAIRES

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

NOTE:

Arrow indicates "street side" of luminaire.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (SYMBOLS AND ABBREVIATIONS)

NO SCALE

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

REVISED STANDARD PLAN RSP ES-1A

2006 REVISED STANDARD PLAN RSP ES-1A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	15	8.0/50.0	13	21

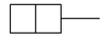
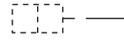
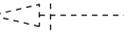
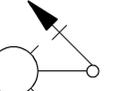
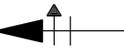
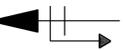
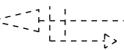
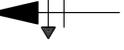
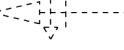
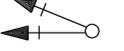
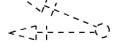
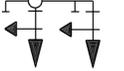
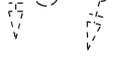
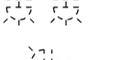
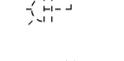
Jeffrey G. McRae
 REGISTERED ELECTRICAL ENGINEER
 October 5, 2007
 PLANS APPROVAL DATE
 Jeffrey G. McRae
 No. E14512
 Exp. 6-30-08
 ELECTRICAL
 STATE OF CALIFORNIA

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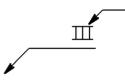
CONDUIT

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

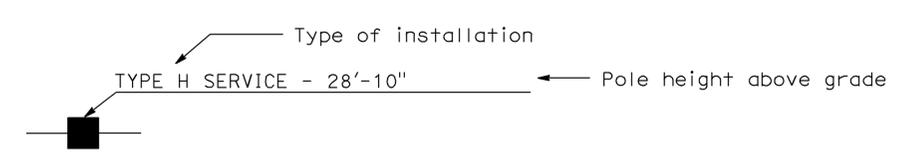
SIGNAL EQUIPMENT

PROPOSED	EXISTING	
		Pedestrian signal face
		Pedestrian push button post
		Pedestrian barricade
		Vehicle signal face (with backplate, 3-Section: red, yellow and green)
		Vehicle signal face with angle visors
		Modifications of basic symbols: "L" Indicates all non-arrow sections lowered "LG" Indicates lowered green section only "PV" Indicates 12" programmed visibility sections "8" indicates all 8" sections (only when specified)
		Type 15TS and Vehicle signal face
		Vehicle signal face with red, yellow and green left arrow sections
		Vehicle signal face with red and yellow sections and up green arrow
		Vehicle signal face (5 Section) with red, yellow and green sections and yellow and green right arrows
		Type 1 Standard and attached vehicle signal faces
		Standard with signal mast arm only and attached vehicle signal faces and internally illuminated street name sign
		Type 33 Standard, Left-turn vehicle signal face and sign
		Standard with luminaire and signal mast arms and attached vehicle signal faces
		Cantilever flashing beacon Type 9 Frame, with a sign unless otherwise specified or indicated
		Type 15-FBS Standard with two vehicle signal face sections with lens, backplate and visor with a sign
		Flashing beacon. One vehicle signal face section with lens, backplate and visor. "R" indicates red indication, "Y" indicates yellow indication
		Controller assembly. Door indicates front of cabinet

SERVICE EQUIPMENT

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

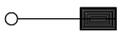
POLE-MOUNTED SERVICE DESIGNATION



ILLUMINATED OVERHEAD SIGN

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

SIGNAL EQUIPMENT Cont

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

NOTES:

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

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

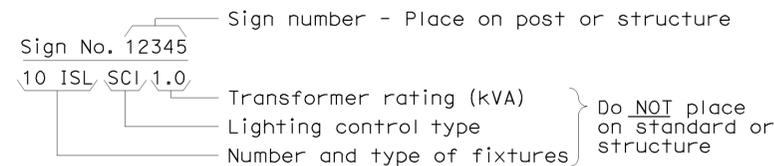
RSP ES-1B DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-1B
 DATED MAY 1, 2006 - PAGE 401 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-1B

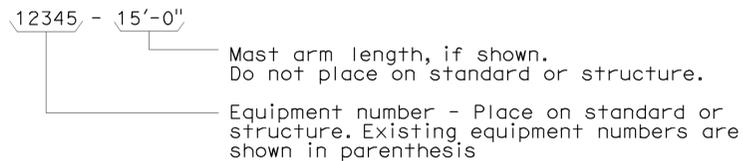
2006 REVISED STANDARD PLAN RSP ES-1B

EQUIPMENT IDENTIFICATION

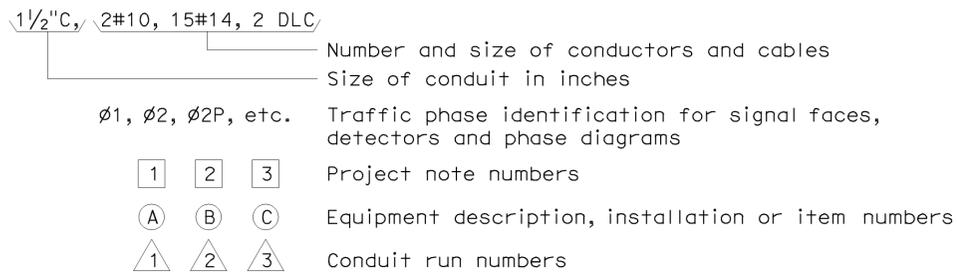
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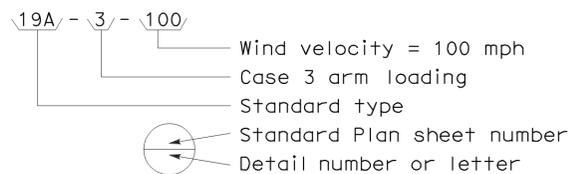
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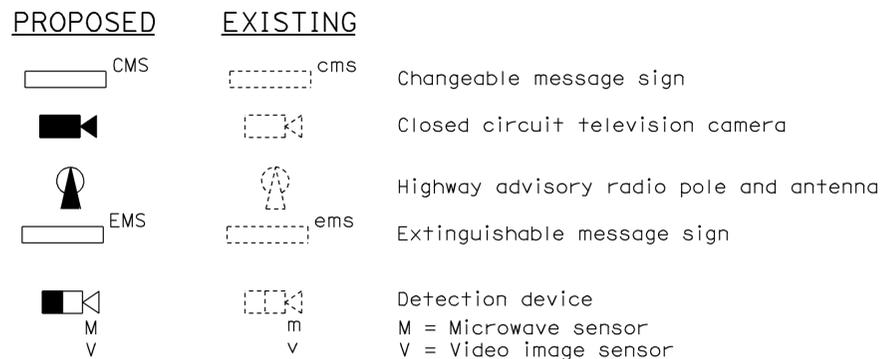
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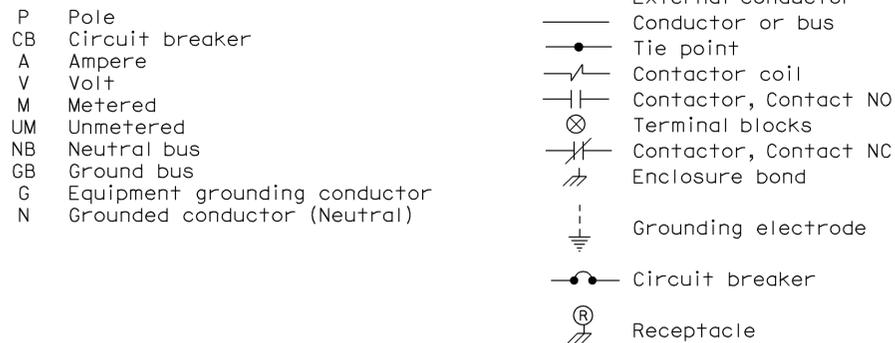
SIGNAL AND LIGHTING STANDARD (TYPICAL DESIGNATION):



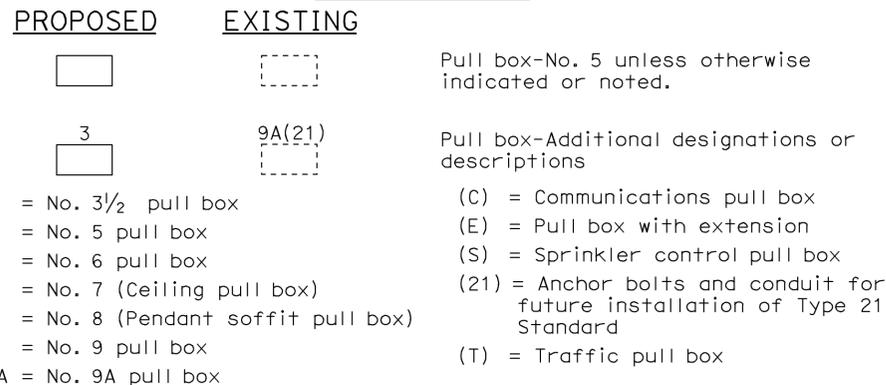
MISCELLANEOUS EQUIPMENT



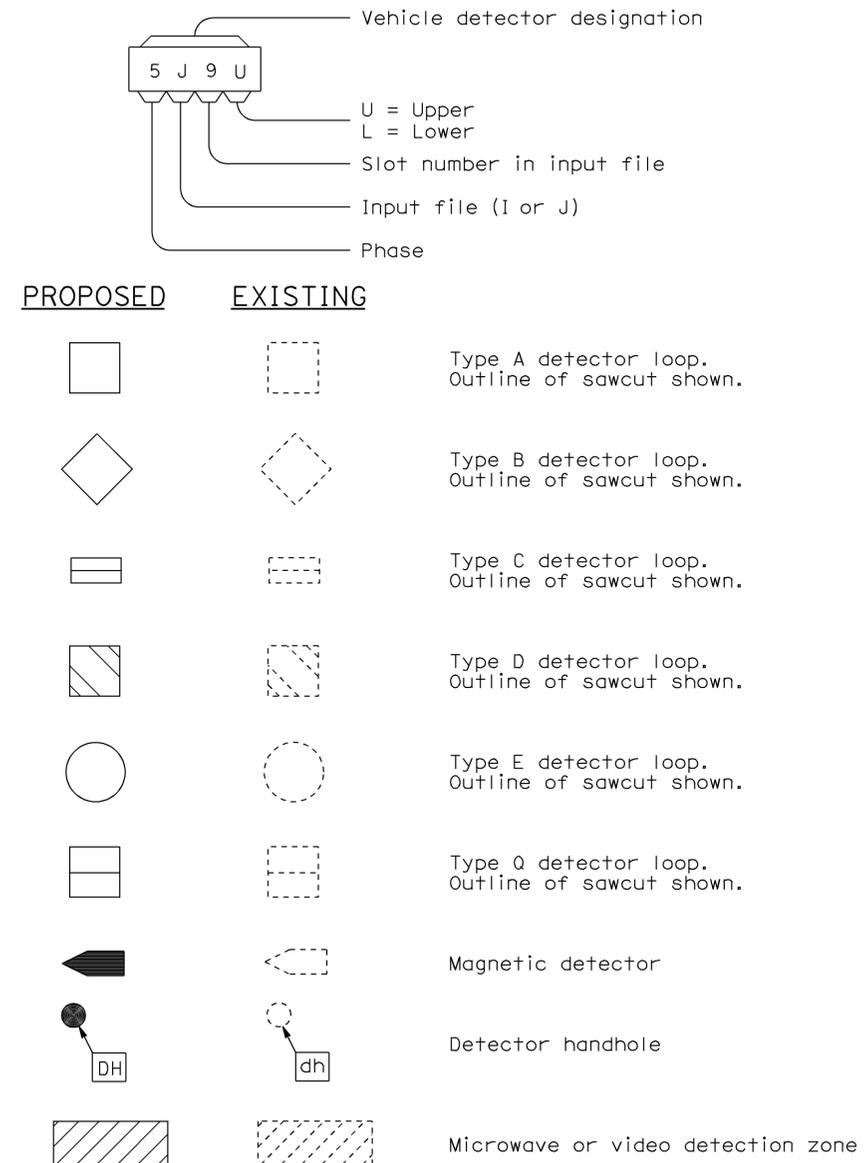
WIRING DIAGRAM LEGEND



PULL BOXES



VEHICLE DETECTORS



STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (SYMBOLS AND ABBREVIATIONS)

NO SCALE

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

REVISED STANDARD PLAN RSP ES-1C

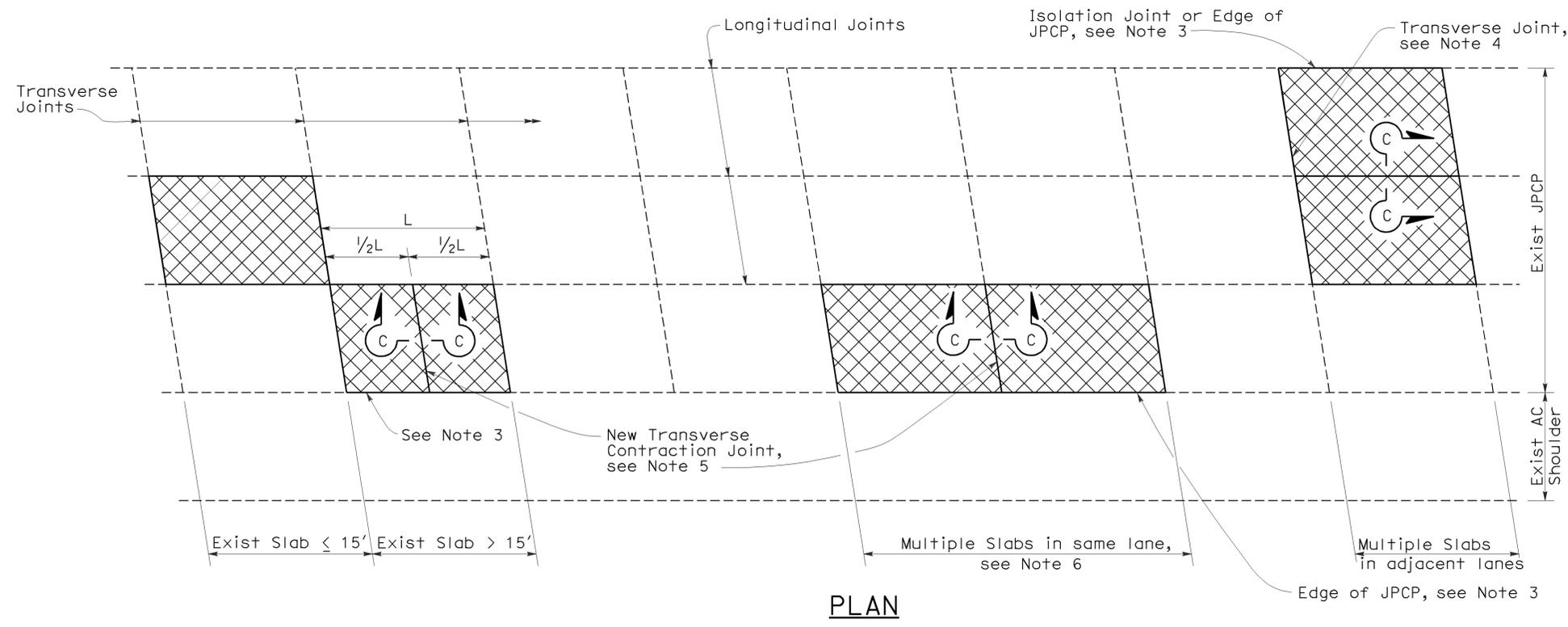
2006 REVISED STANDARD PLAN RSP ES-1C

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	15	8.0/50.0	15	21

William K. Farnbach
 REGISTERED CIVIL ENGINEER
 May 15, 2009
 PLANS APPROVAL DATE
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

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

To accompany plans dated 9-26-11

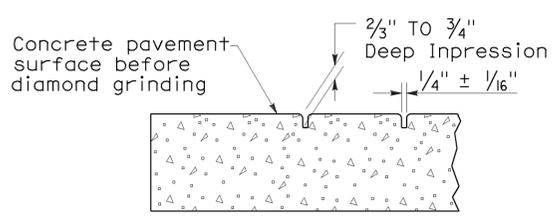
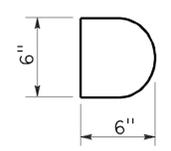
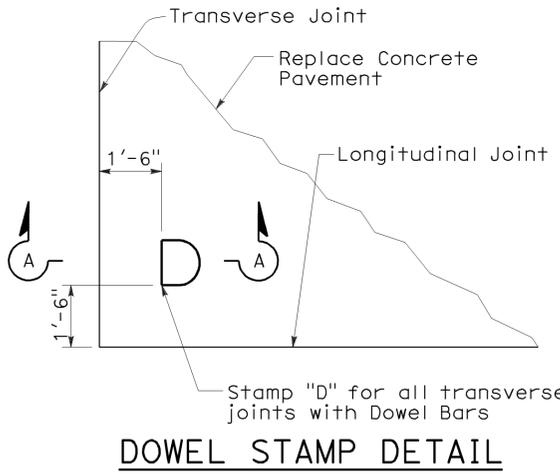


PLAN

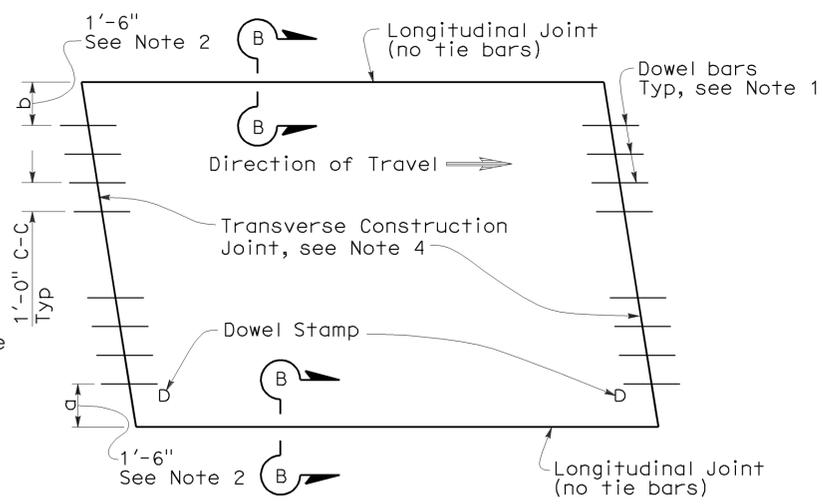
NOTES:

- For details not shown, see Revised Standard Plan RSP P10.
- 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".
- Side forms shall be used where edge of pavement is adjacent to asphalt concrete.
- For detail, see Transverse Construction Joint for existing concrete pavement detail on Revised Standard Plan RSP P10.
- Transverse joint to match skew of existing joint. Omit dowel bars.
- This Standard Plan only applicable when replacing multiple slabs in the same lane is less than 100'.

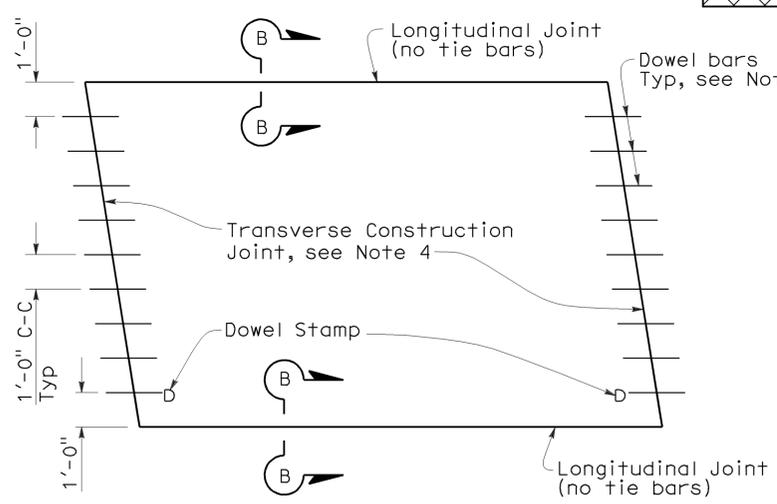
LEGEND



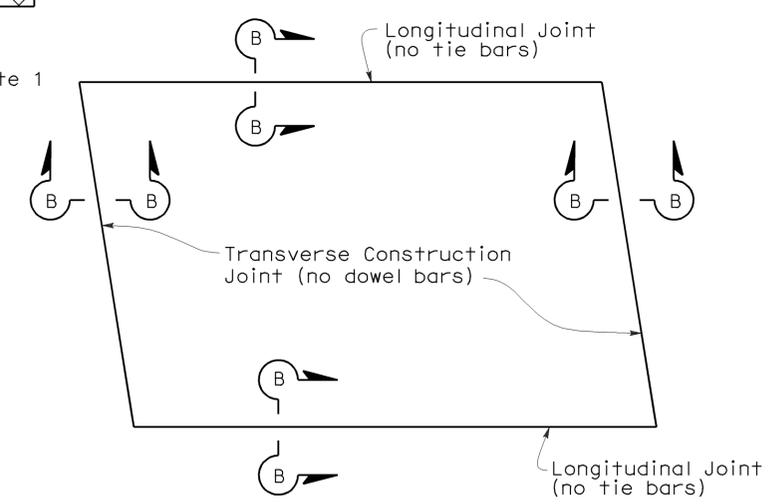
SECTION A-A



TYPE I
(traffic lane lines match longitudinal joints)

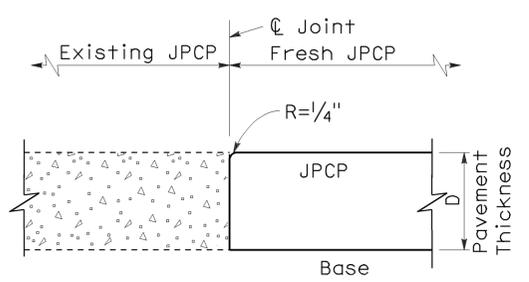


TYPE II
(traffic lane lines do not match longitudinal joints)

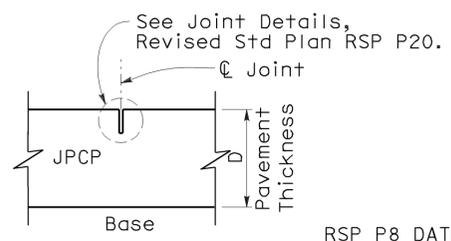


TYPE III
(for short term repairs < 5 yrs design life or for slab replacements with a cracking and seating operation)

SLAB LAYOUT



SECTION B-B



SECTION C-C

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

JOINTED PLAIN CONCRETE PAVEMENT-INDIVIDUAL SLAB REPLACEMENT

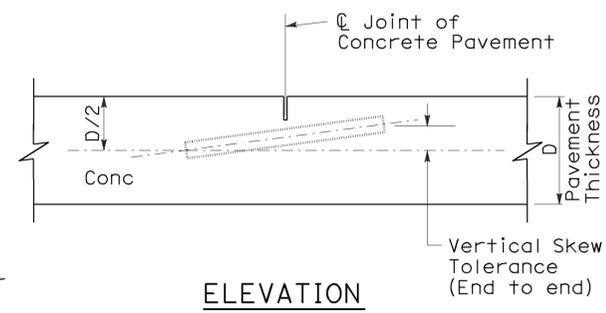
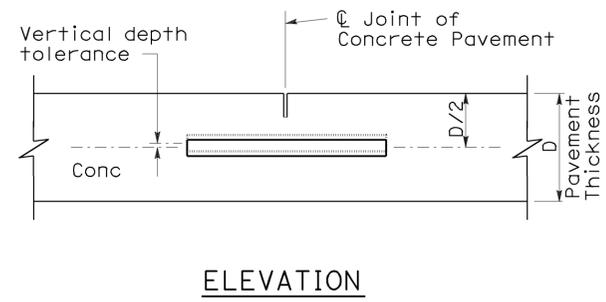
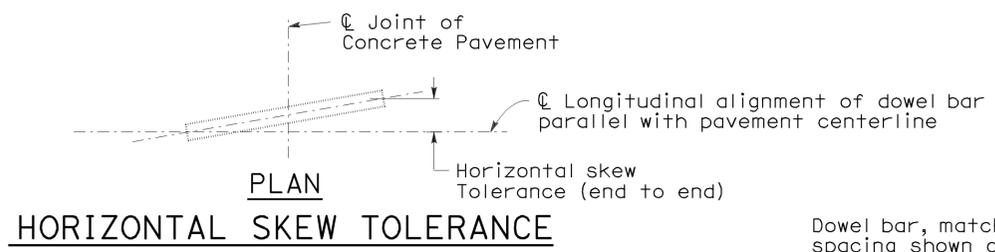
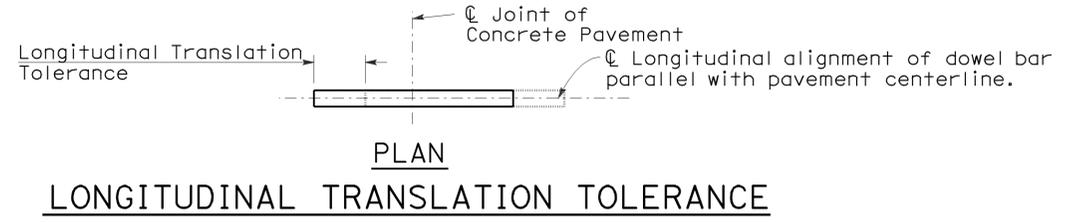
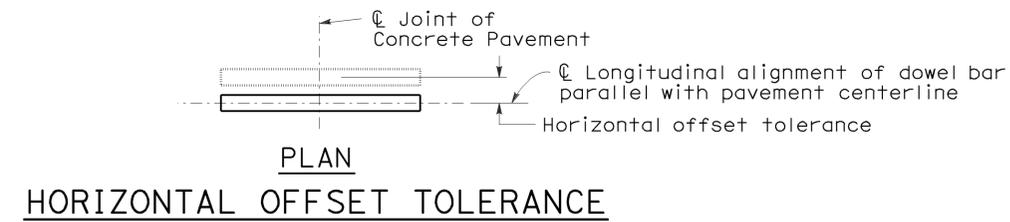
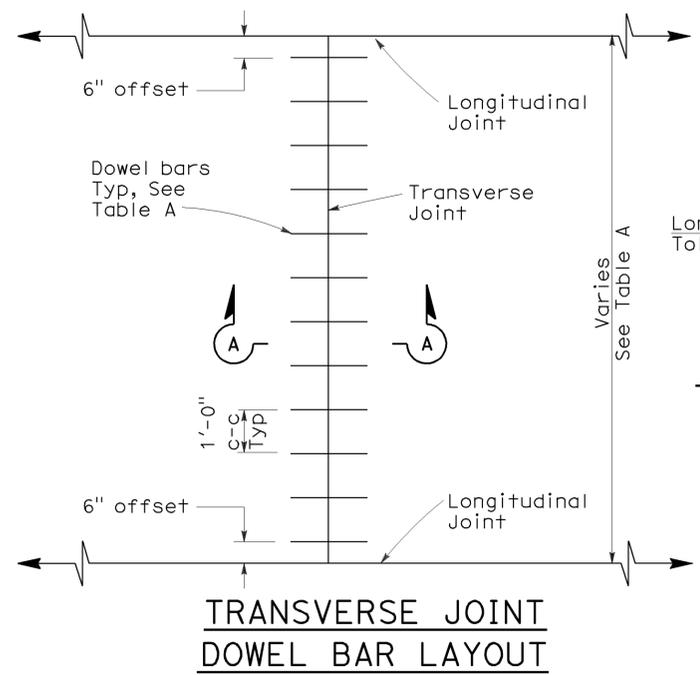
NO SCALE

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

123



- To accompany plans dated 9-26-11
- NOTES:**
- See Revised Standard Plan RSP P1 for typical dowel bar placement and locations.
 - 1/2" 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 1/4" Dia smooth dowel bars.
 - For widths not shown, see Project Plans.
 - 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 1/4" radius, as shown.

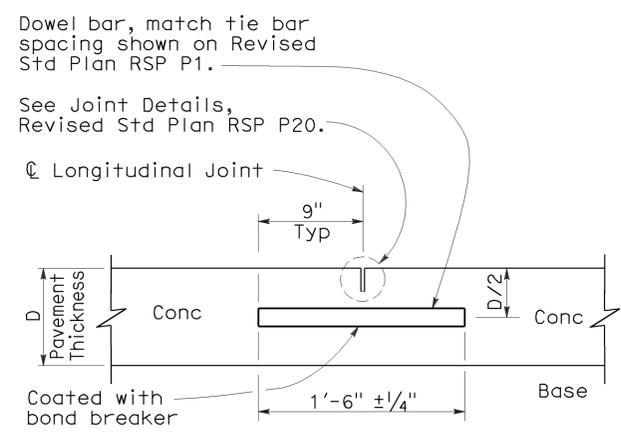
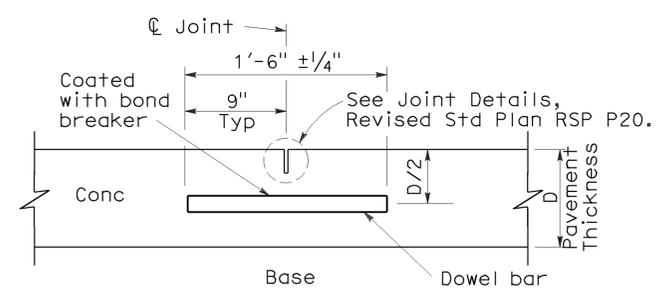
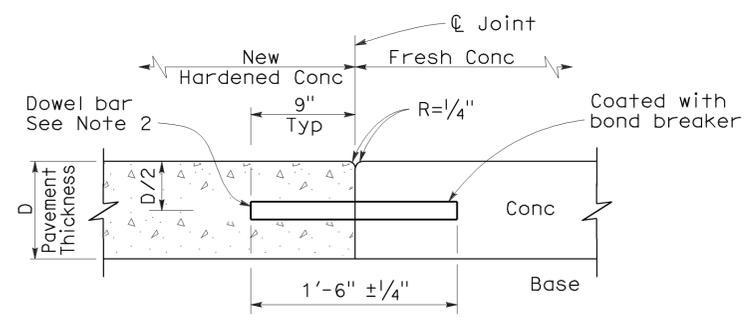
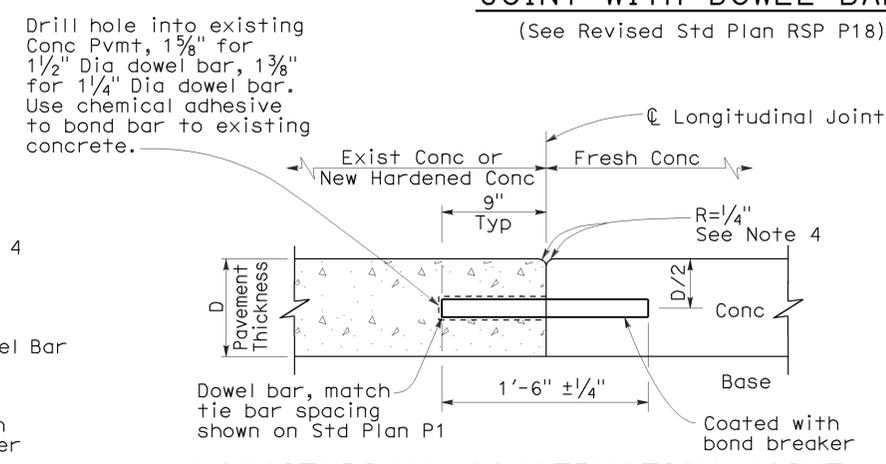
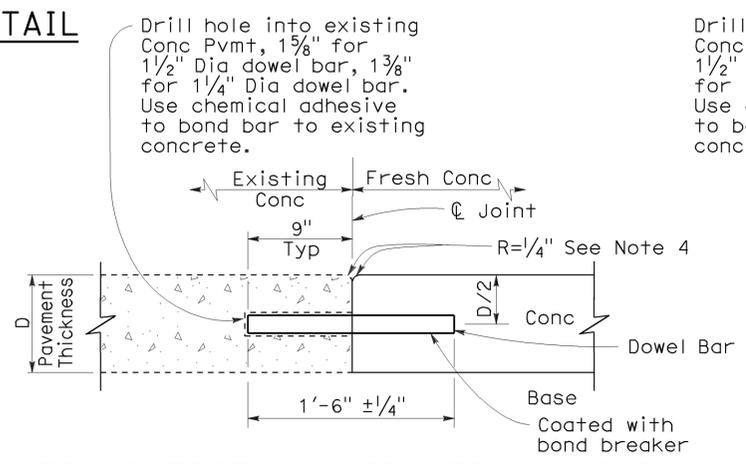


TABLE A (See Note 3)

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



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.

2006 REVISED STANDARD PLAN RSP P10

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	15	8.0/50.0	17	21

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

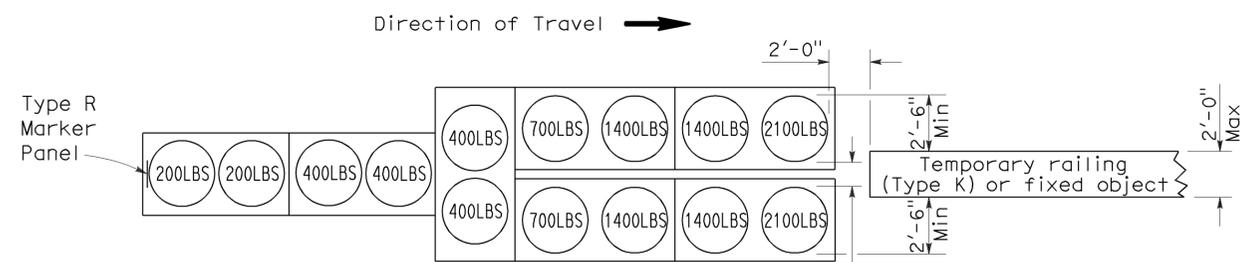
June 6, 2008
PLANS APPROVAL DATE

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

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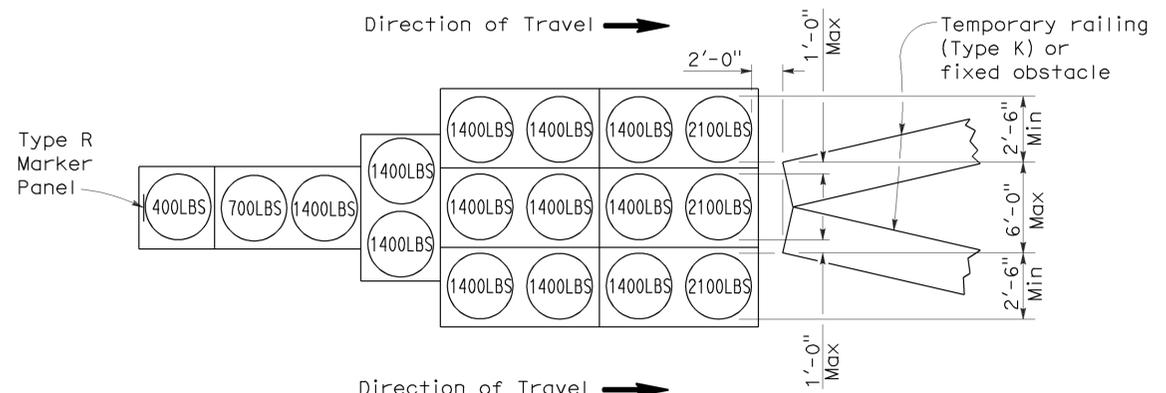
To accompany plans dated 9-26-11

2006 REVISED STANDARD PLAN RSP T1A



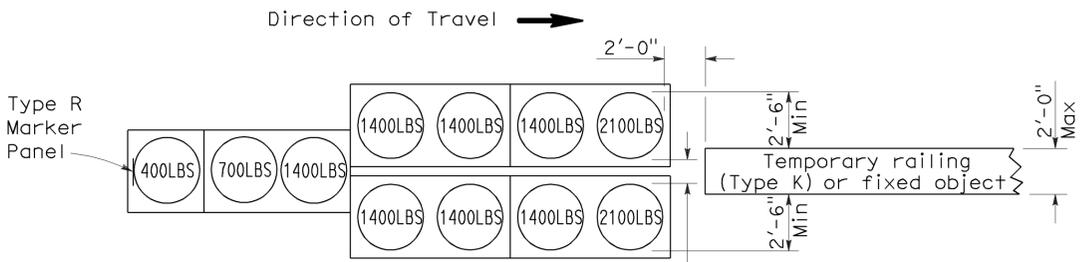
ARRAY 'TU14'

Approach speed 45 mph or more



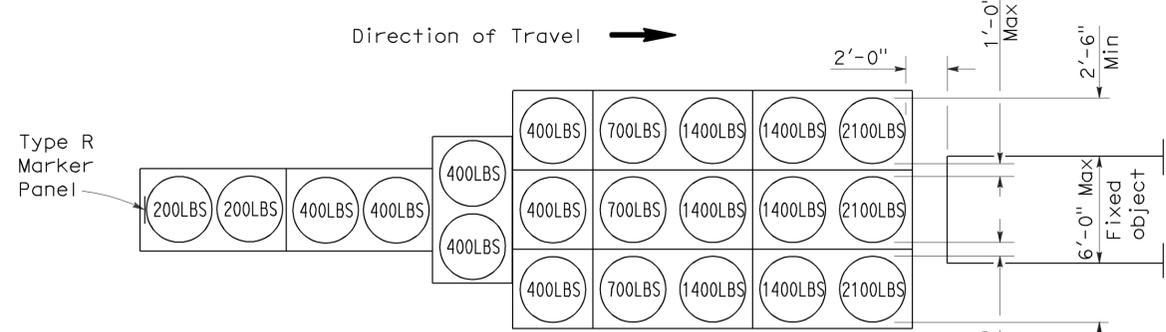
ARRAY 'TU17'

Approach speed less than 45 mph



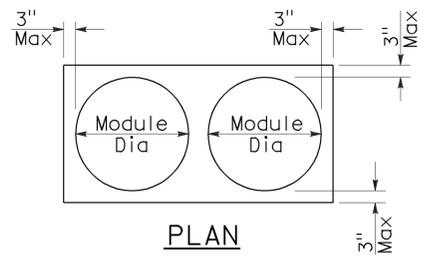
ARRAY 'TU11'

Approach speed less than 45 mph

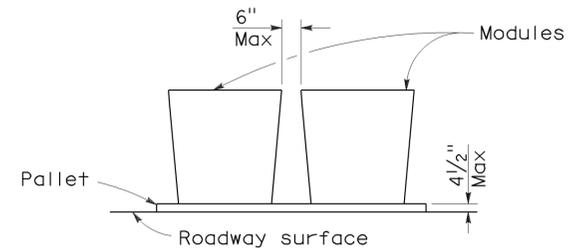


ARRAY 'TU21'

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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	15	8.0/50.0	18	21

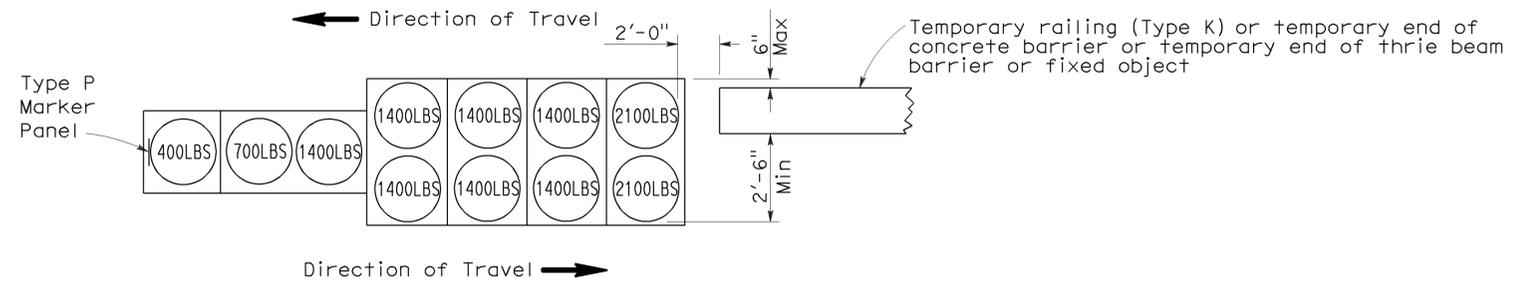
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

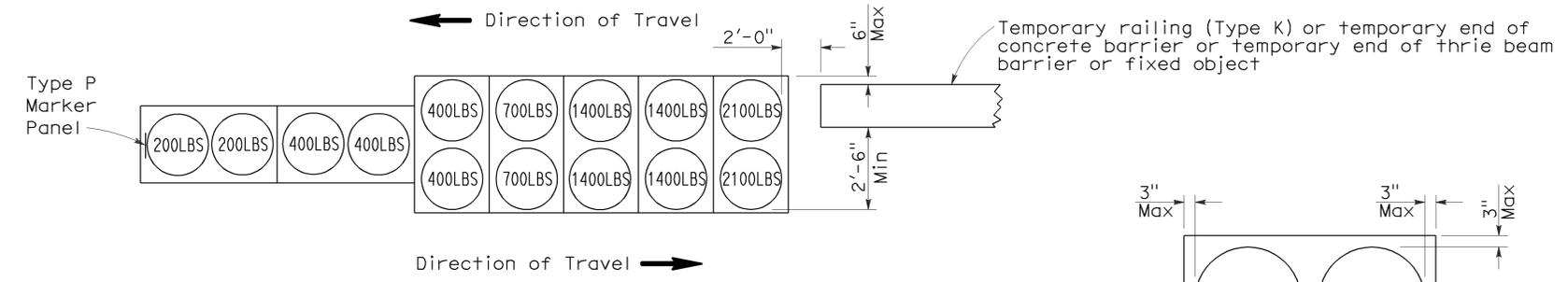
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

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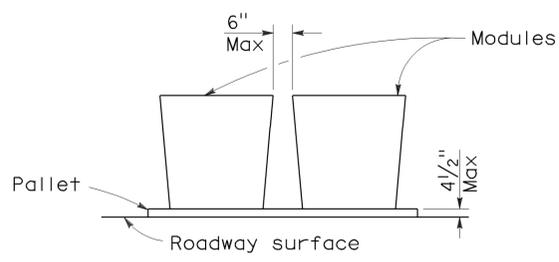
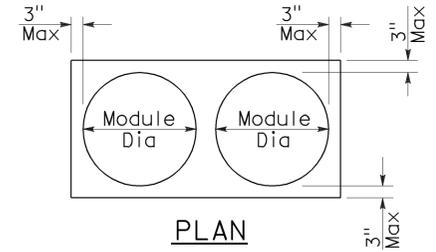
To accompany plans dated 9-26-11



ARRAY 'TB11'
Approach speed less than 45 mph



ARRAY 'TB14'
Approach speed 45 mph or more



CRASH CUSHION PALLET DETAIL
See Note 7

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

NO SCALE

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

REVISED STANDARD PLAN RSP T1B

2006 REVISED STANDARD PLAN RSP T1B

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	15	8.0/50.0	19	21

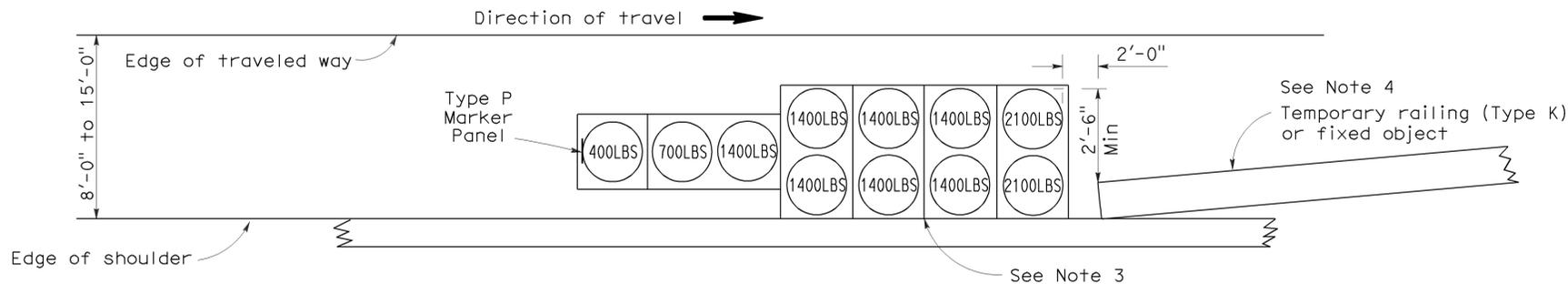
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

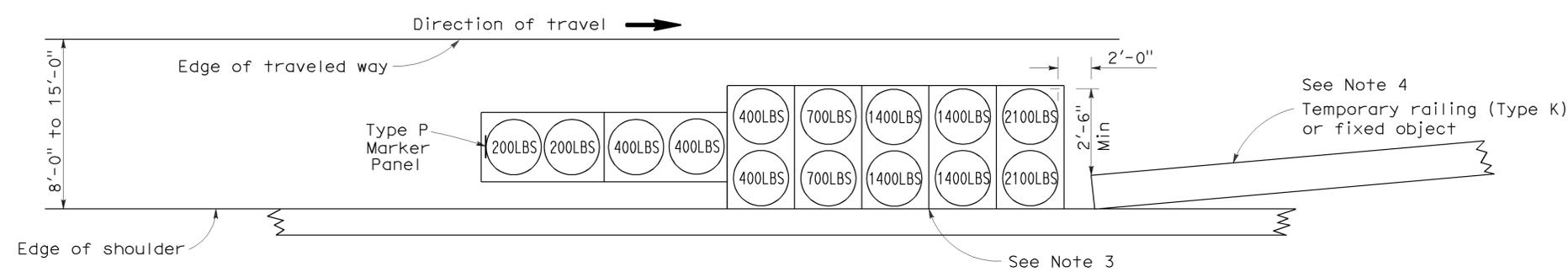
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REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

To accompany plans dated 9-26-11



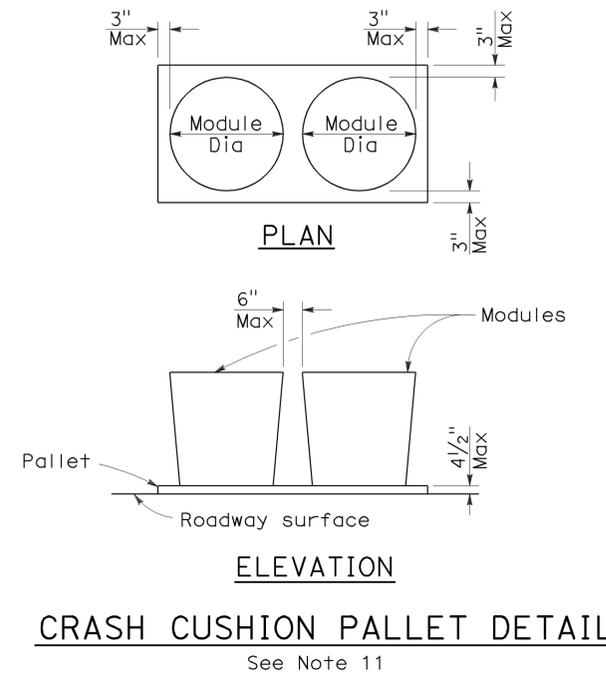
ARRAY 'TS11'
Approach speed less than 45 mph
See Note 9



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

NOTES:

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



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

NO SCALE

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

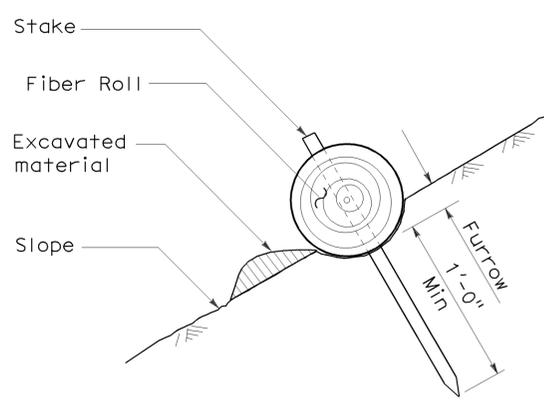
REVISED STANDARD PLAN RSP T2

2006 REVISED STANDARD PLAN RSP T2

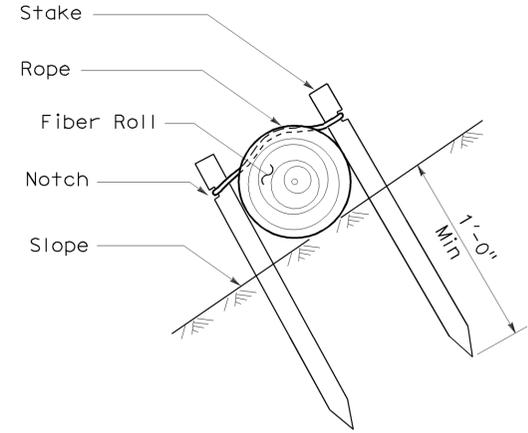
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	15	8.0/50.0	21	21

Robert B. Schott
 LICENSED LANDSCAPE ARCHITECT
 April 3, 2009
 PLANS APPROVAL DATE
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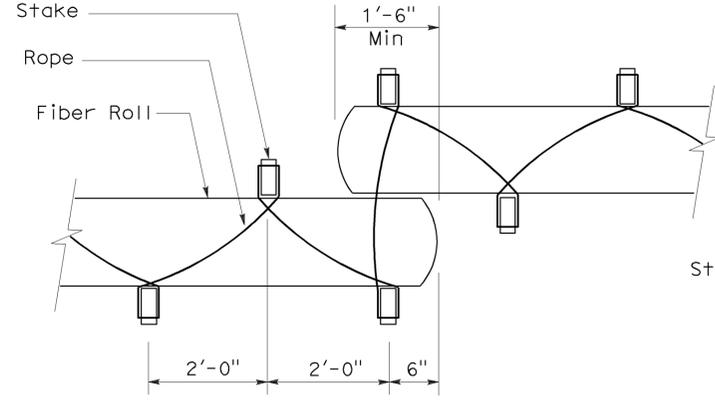
To accompany plans dated 9-26-11



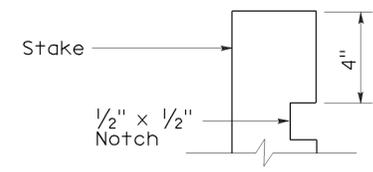
SECTION
TEMPORARY FIBER ROLL
(TYPE 1)



SECTION
TEMPORARY FIBER ROLL
(TYPE 2)

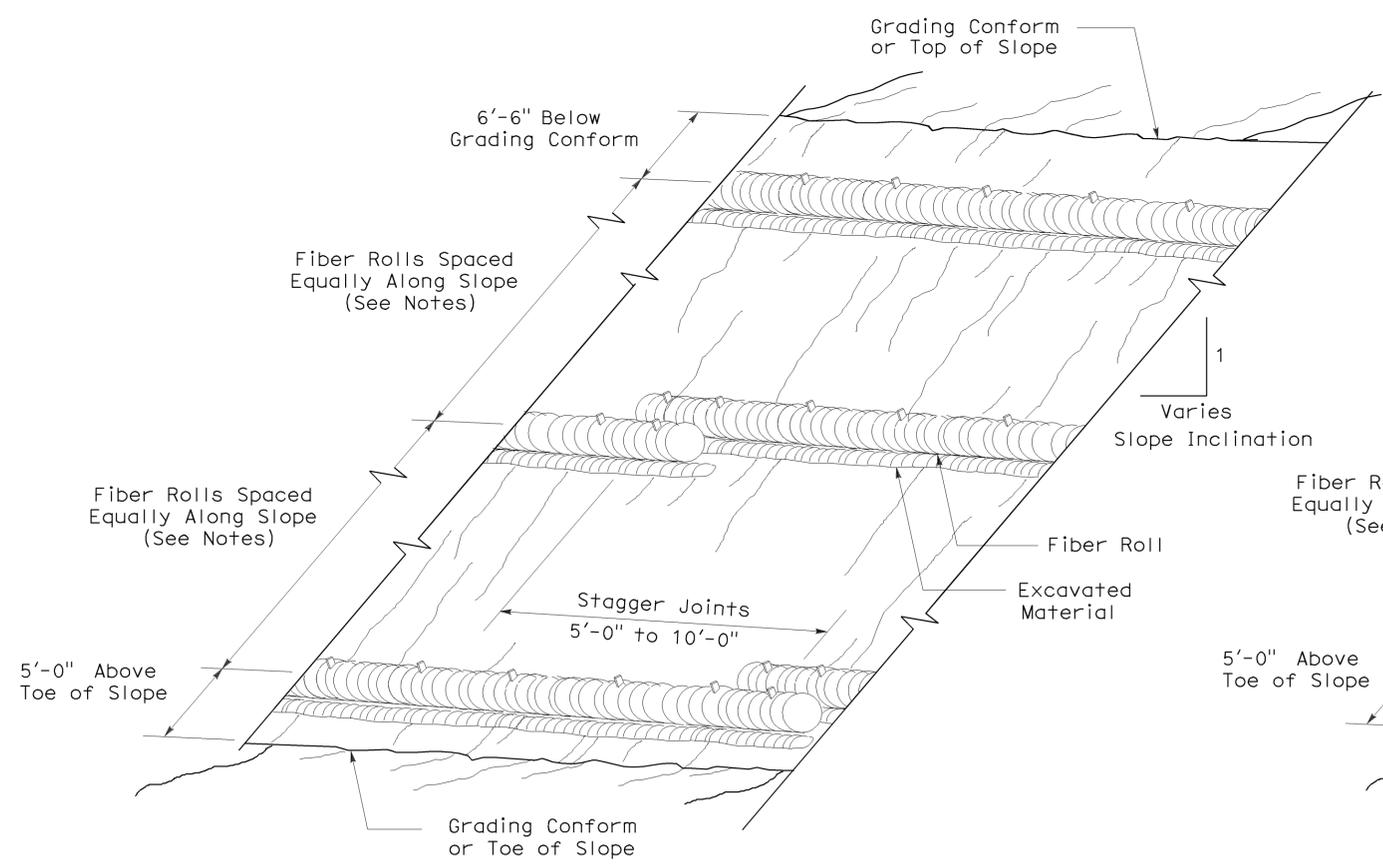


PLAN

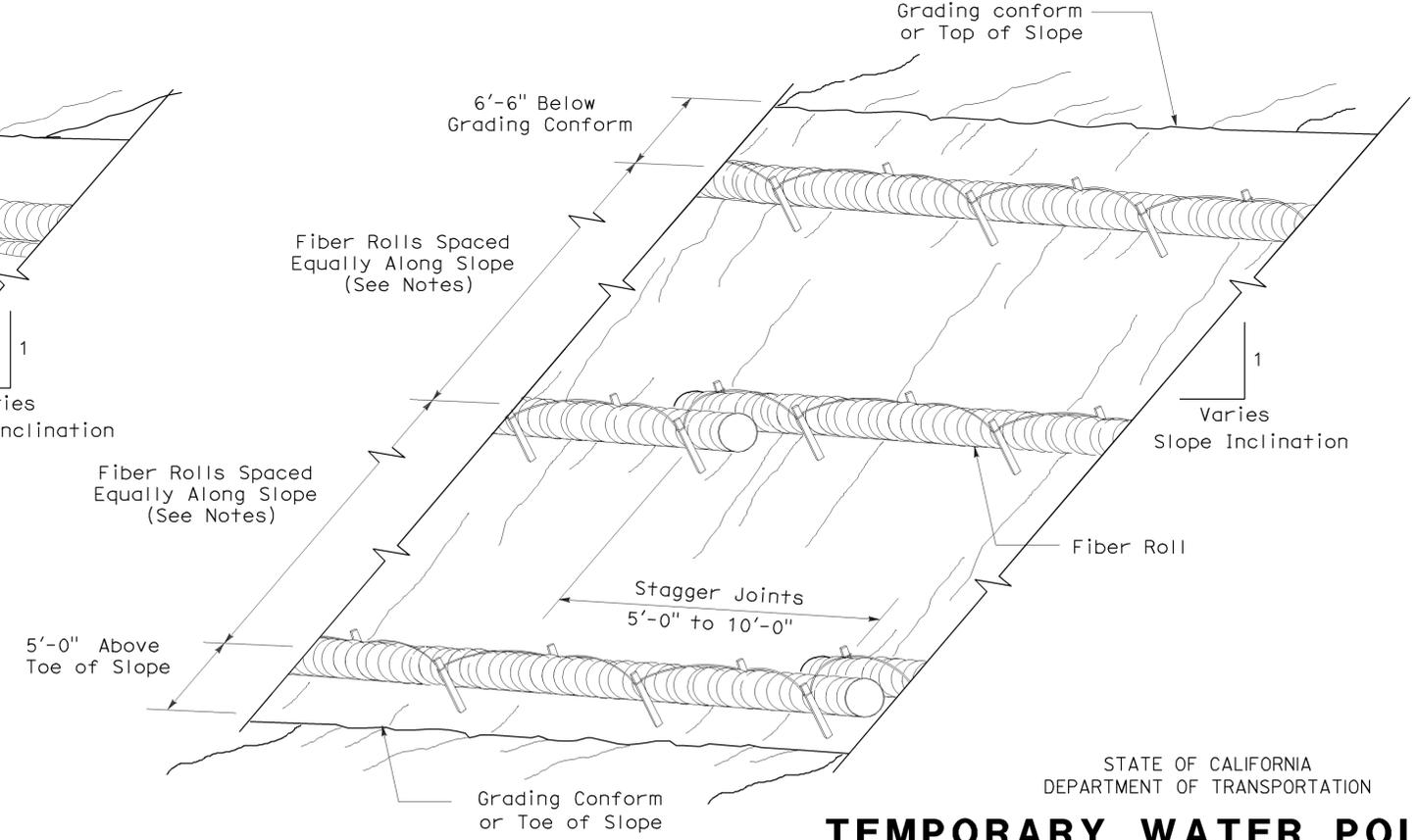


ELEVATION
STAKE NOTCH DETAIL

- NOTES:**
1. Temporary fiber roll spacing varies depending upon slope inclination.
 2. Installations shown in the perspectives are for slope inclination of 10:1 and steeper.



PERSPECTIVE
TEMPORARY FIBER ROLL (TYPE 1)



PERSPECTIVE
TEMPORARY FIBER ROLL (TYPE 2)

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

TEMPORARY WATER POLLUTION CONTROL DETAILS
(TEMPORARY FIBER ROLL)

NO SCALE

RSP T56 DATED APRIL 3, 2009 SUPERSEDES STANDARD PLAN T56
 DATED MAY 1, 2006 - PAGE 232 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T56

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2006 REVISED STANDARD PLAN RSP T56