Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15,40	R124.0/186.2, R50.9/R73.1	1	34

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ACIM-X071(062)E

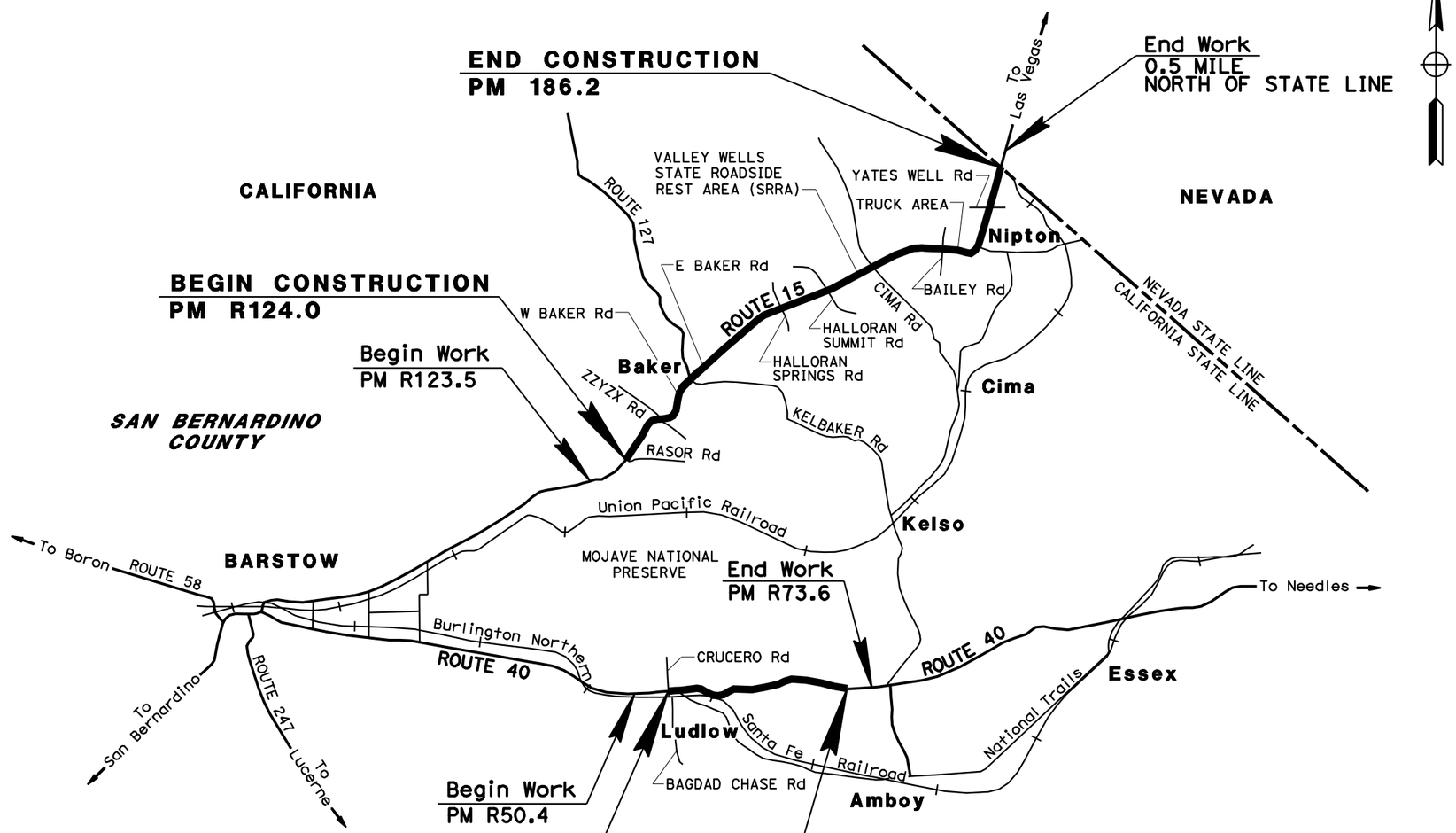
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN SAN BERNARDINO COUNTY
ON ROUTE 15
FROM RASOR ROAD TO THE NEVADA STATE LINE AND
ON ROUTE 40
FROM 1 MILE EAST OF CRUCERO ROAD
TO 5 MILES WEST OF KELBAKER ROAD

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2 -4	TYPICAL CROSS SECTIONS
5-7	CONSTRUCTION DETAILS
8	CONSTRUCTION AREA SIGNS
9-12	DETOUR PLANS
13	PAVEMENT DELINEATION PLAN
14-22	PAVEMENT DELINEATION QUANTITIES
23	SIGN QUANTITIES
24-25	SUMMARY OF QUANTITIES
26	ELECTRICAL PLAN
27-34	REVISED STANDARD PLANS

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



LOCATION MAP

NO SCALE

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

PROJECT MANAGER CATALINO PINING

DESIGN ENGINEER MICHAEL RISTIC

Kamal Mchantaf 2-14-11
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

February, 14 2011
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KAMAL MCHANTAF No. C051050 Exp. 9-30-11 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.

CONTRACT No.	08-0P1204
PROJECT ID	0800000551

LAST REVISION 02-14-11

DATE PLOTTED => 11-FEB-2011
TIME PLOTTED => 09:03

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15,40	R124.0/186.2, R50.9/R73.1	2	34

Kamal Mchantaf 2-14-11
REGISTERED CIVIL ENGINEER DATE

2-14-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KAMAL MCHANTAF No. C051050 Exp. 9-30-11 CIVIL STATE OF CALIFORNIA

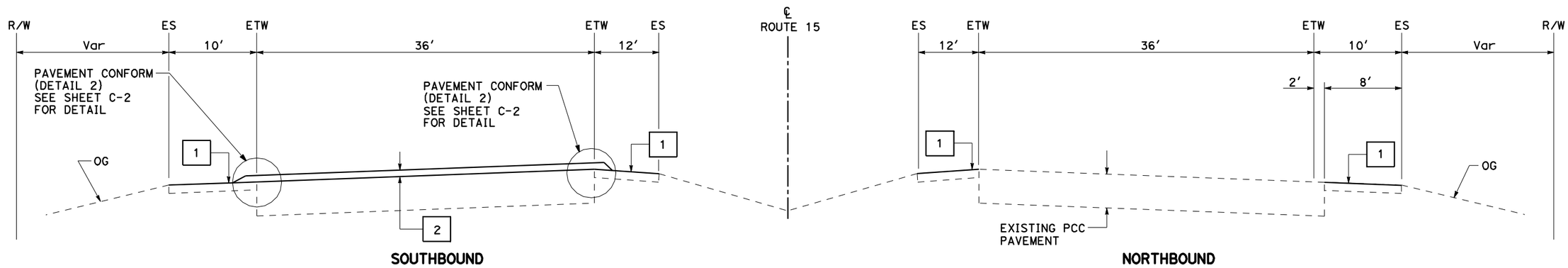
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

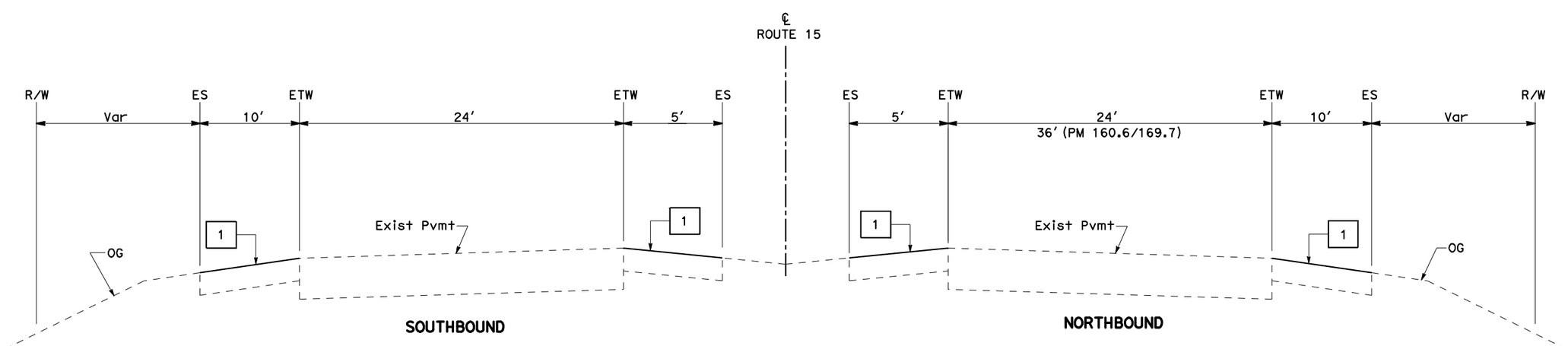
1. DIMENSIONS OF THE STRUCTURAL SECTIONS ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.
3. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.
4. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

STRUCTURAL SECTION NOTES:

1. FOG SEAL ON EXISTING AC SHOULDER
2. COLD PLANE ASPHALT CONCRETE PAVEMENT 0.06′ TO 0.08′ PLACE 0.10′ RHMA-O
3. COLD PLANE ASPHALT CONCRETE PAVEMENT 0.10′ PLACE 0.10′ RHMA-G
4. SLURRY SEAL (TYPE III)



ROUTE 15
PM 137.3 TO 156.3



ROUTE 15
PM 124.0 TO 137.3
PM 156.3 TO 169.7

TYPICAL CROSS SECTIONS
NO SCALE

X-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: MICHAEL RISTIC
CALCULATED-DESIGNED BY: KAMAL MCHANTAF
CHECKED BY: MICHAEL RISTIC
REVISED BY
DATE REVISED

LAST REVISION 02-14-11
DATE PLOTTED => 11-FEB-2011
TIME PLOTTED => 09:04

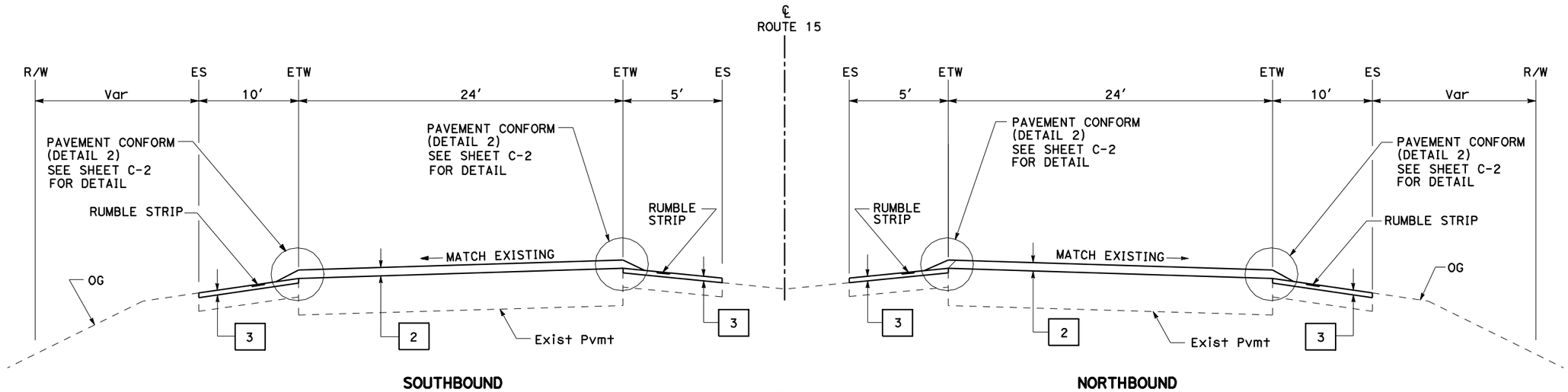
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15,40	R124.0/186.2, R50.9/R73.1	3	34

Kamal Mchantaf 2-14-11
REGISTERED CIVIL ENGINEER DATE

2-14-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
KAMAL MCHANTAF
No. C051050
Exp. 9-30-11
CIVIL
STATE OF CALIFORNIA

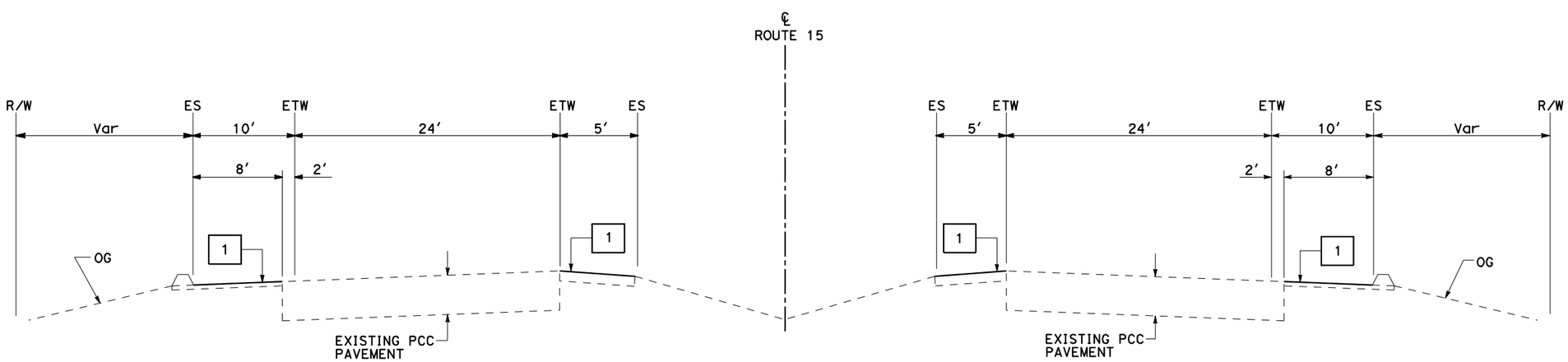
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



SOUTHBOUND

NORTHBOUND

ROUTE 15
PM 181.8 TO 186.2



NORTH ROADBED

SOUTH ROADBED

ROUTE 40
PM 50.9/73.1

TYPICAL CROSS SECTIONS
NO SCALE

X-2

REVISED BY	DATE REVISED
KAMAL MCHANTAF	MICHAEL RISTIC
CALCULATED-DESIGNED BY	CHECKED BY
FUNCTIONAL SUPERVISOR	MICHAEL RISTIC

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN

LAST REVISION 02-14-11
DATE PLOTTED => 11-FEB-2011
TIME PLOTTED => 09:04

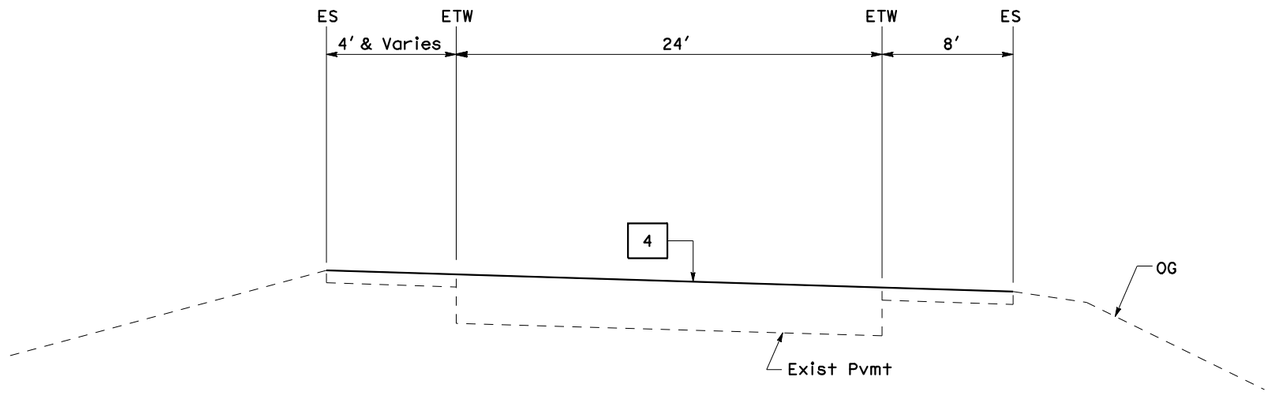
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15,40	R124.0/186.2, R50.9/R73.1	4	34

Kamal Mchantaf 2-14-11
REGISTERED CIVIL ENGINEER DATE

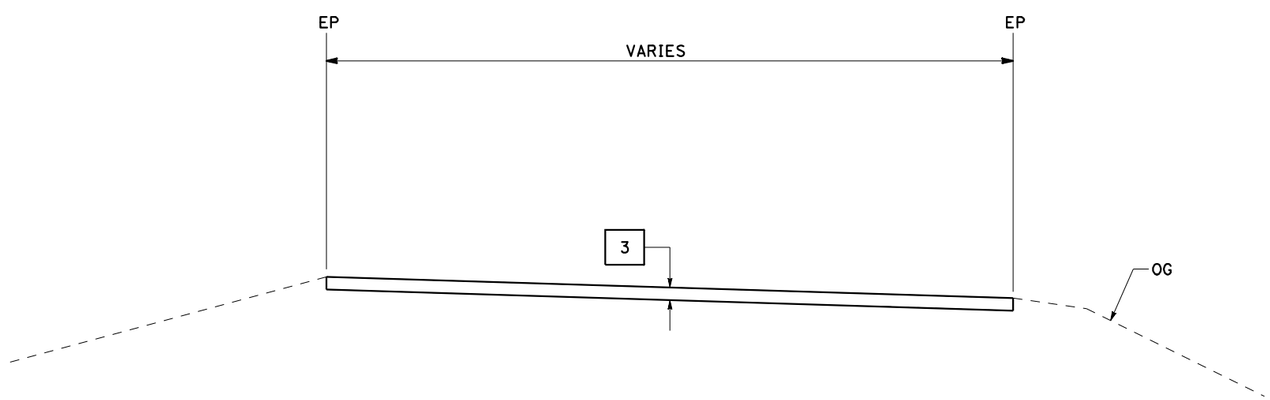
2-14-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
KAMAL MCHANTAF
No. C051050
Exp. 9-30-11
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.



ROUTE 15 RAMPS



VALLEY WELLS SRRA
RAMPS AND PARKING AREAS

TYPICAL CROSS SECTIONS
NO SCALE

X-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: MICHAEL RISTIC
CALCULATED-DESIGNED BY: KAMAL MCHANTAF
CHECKED BY: MICHAEL RISTIC
REVISED BY
DATE REVISED

LAST REVISION 02-14-11
DATE PLOTTED => 11-FEB-2011
TIME PLOTTED => 09:04

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15,40	R124.0/186.2, R50.9/R73.1	5	34

Kamal Mchantaf 2-14-11
REGISTERED CIVIL ENGINEER DATE

2-14-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KAMAL MCHANTAF No. C051050 Exp. 9-30-11 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:

RHMA-O RUBBERIZED HOT MIX ASPHALT (OPEN GRADED)
RHMA-G RUBBERIZED HOT MIX ASPHALT (GAP GRADED)

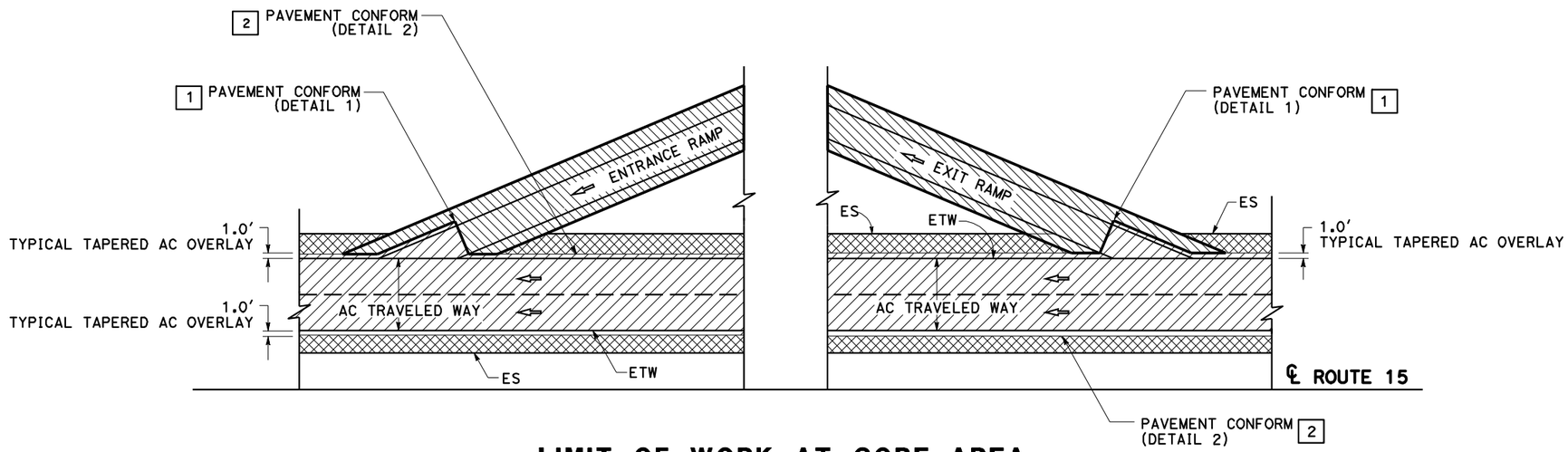
COLD PLANE 0.06' TO 0.08' AND PLACE 0.10' RHMA-O (SEE X-SECTIONS FOR LIMITS)

FOG SEAL OR COLD PLANE 0.10' AND PLACE 0.10' RHMA-G (SEE X-SECTIONS FOR LIMITS)

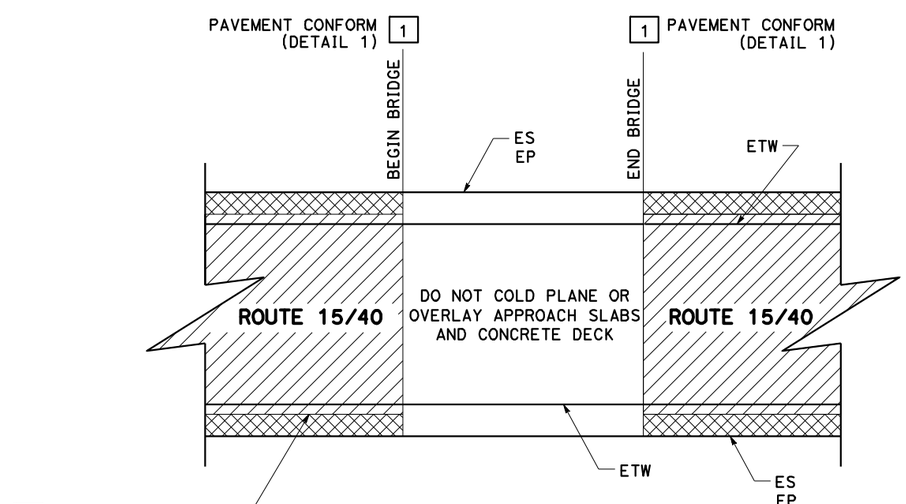
SLURRY SEAL

NOTES:

1. SEE CONSTRUCTION DETAIL SHEET C-2
2. SEE CONSTRUCTION DETAIL SHEET C-2



LIMIT OF WORK AT GORE AREA



LIMIT OF WORK AT BRIDGE DECK AREA

CONSTRUCTION DETAILS

NO SCALE

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: MICHAEL RISTIC
CALCULATED-DESIGNED BY: KAMAL MCHANTAF
CHECKED BY: MICHAEL RISTIC
REVISED BY
DATE REVISED

LAST REVISION 02-14-11
DATE PLOTTED => 11-FEB-2011
TIME PLOTTED => 09:04

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15,40	R124.0/186.2, R50.9/R73.1	6	34

Kamal Mchantaf 2-14-11
REGISTERED CIVIL ENGINEER DATE

2-14-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
KAMAL MCHANTAF
No. C051050
Exp. 9-30-11
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.

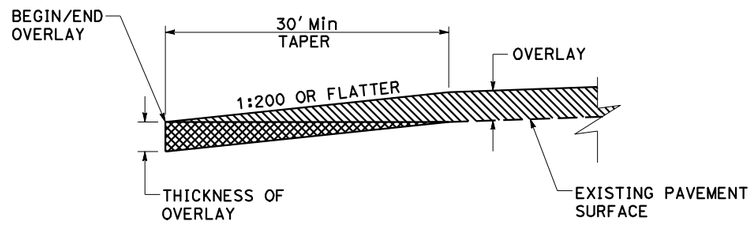
LEGEND:

OVERLAY

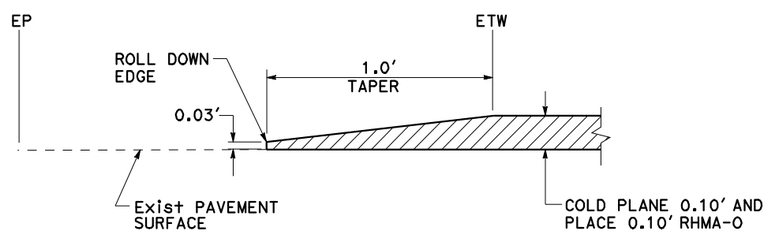
COLD PLANE AND PLACE OVERLAY

NOTES:

1. ALL WORK WITHIN STATE RIGHT OF WAY.
2. PAVING CONFORM WILL BE AT THE BEGINING AND AT THE END OF PROJECT LIMITS.



1 LONGITUDINAL PAVEMENT CONFORM DETAIL 2



2 TRANSVERSE PAVEMENT CONFORM DETAIL 1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: MICHAEL RISTIC

CALCULATED-DESIGNED BY: KAMAL MCHANTAF
CHECKED BY: MICHAEL RISTIC

REVISED BY
DATE REVISED

CONSTRUCTION DETAILS
NO SCALE

C-2

LAST REVISION 02-14-11
DATE PLOTTED => 11-FEB-2011
TIME PLOTTED => 09:04

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15,40	R124.0/186.2, R50.9/R73.1	7	34

Kamal Mchantaf 2-14-11
REGISTERED CIVIL ENGINEER DATE

2-14-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KAMAL MCHANTAF No. C051050 Exp. 9-30-11 CIVIL STATE OF CALIFORNIA

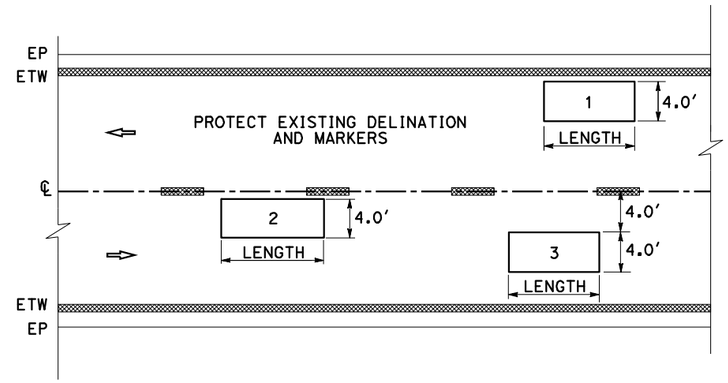
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

LEGEND:

0.40' REPLACE ASPHALT CONCRETE SURFACING (HMA-A)

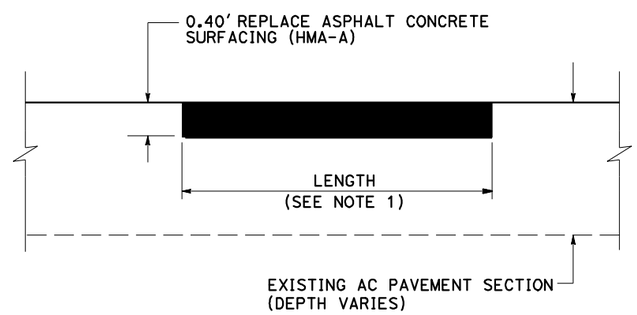
NOTES:

1. LENGTH OF REPLACE ASPHALT CONCRETE WILL BE DETERMINED BY THE ENGINEER (MINIMUM 50')
2. EXACT LOCATIONS OF REPLACE ASPHALT CONCRETE SURFACING SHALL BE DETERMINED BY THE ENGINEER.
3. FOR REPLACE ASPHALT CONCRETE SURFACING QUANTITIES SEE QUANTITY SHEETS



PLAN VIEW
REPLACE ASPHALT CONCRETE SURFACING

CASE 1: RIGHT WHEEL TRACK (R)
CASE 2: LEFT WHEEL TRACK (L)
CASE 3: CENTER OF TRAVEL WAY (C)



PROFILE
REPLACE ASPHALT CONCRETE SURFACING

CONSTRUCTION DETAILS
NO SCALE

C-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: MICHAEL RISTIC
CALCULATED-DESIGNED BY: KAMAL MCHANTAF
CHECKED BY: MICHAEL RISTIC
REVISED BY
DATE REVISED

LAST REVISION 02-14-11 | DATE PLOTTED => 11-FEB-2011 | TIME PLOTTED => 09:04

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15,40	R124.0/186.2, R50.9/R73.1	8	34

REGISTERED CIVIL ENGINEER 2-14-11 DATE

2-14-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER CHRIS HARDIMON No. C66092 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA

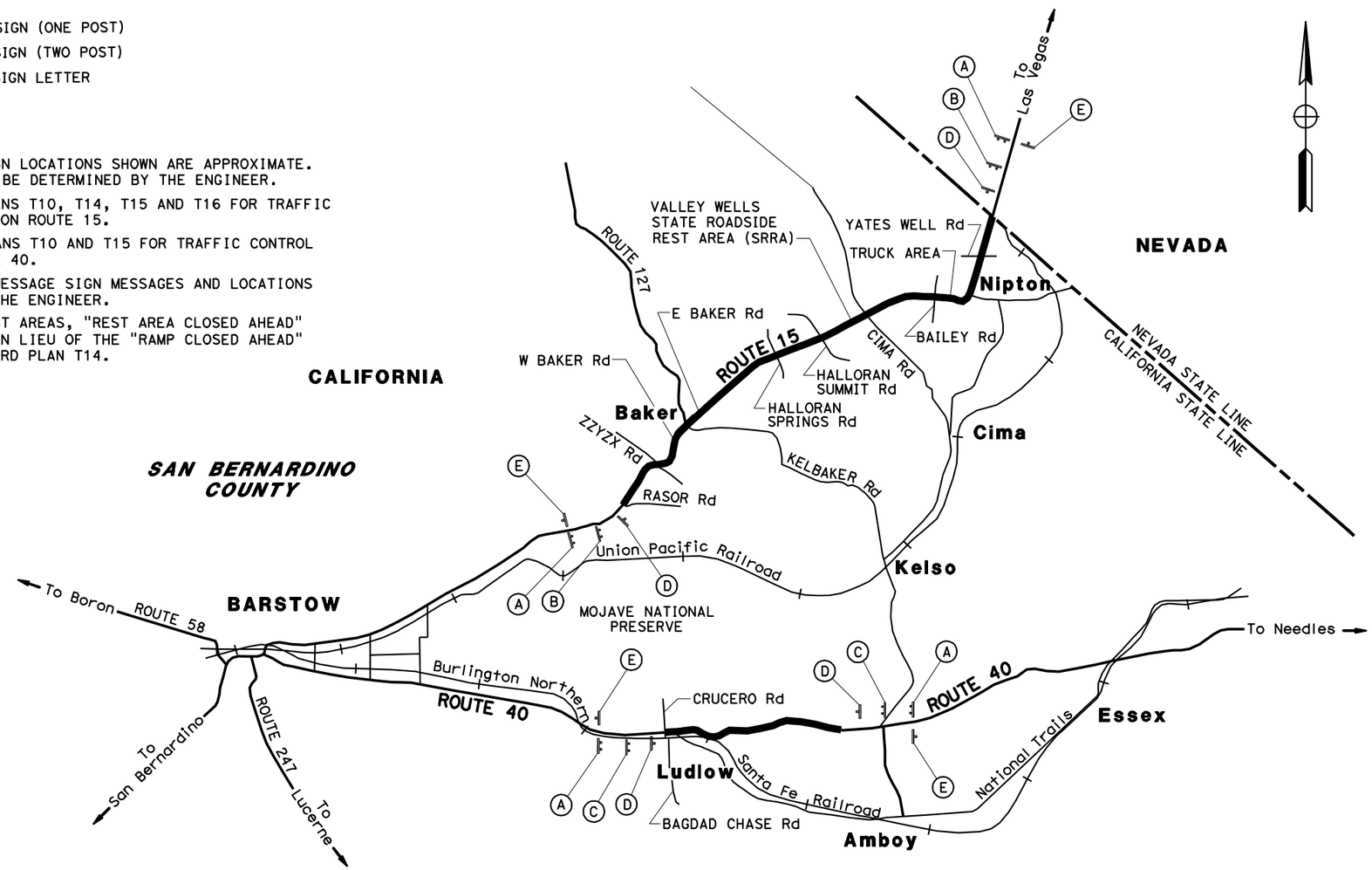
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

LEGEND:

- CONSTRUCTION AREA
- CONSTRUCTION AREA SIGN (ONE POST)
- CONSTRUCTION AREA SIGN (TWO POST)
- (X) CONSTRUCTION AREA SIGN LETTER

NOTES:

1. CONSTRUCTION AREA SIGN LOCATIONS SHOWN ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
2. REFER TO STANDARD PLANS T10, T14, T15 AND T16 FOR TRAFFIC CONTROL REQUIREMENTS ON ROUTE 15.
3. REFER TO STANDARD PLANS T10 AND T15 FOR TRAFFIC CONTROL REQUIREMENTS ON ROUTE 40.
4. PORTABLE CHANGEABLE MESSAGE SIGN MESSAGES AND LOCATIONS TO BE DETERMINED BY THE ENGINEER.
5. DURING CLOSURE OF REST AREAS, "REST AREA CLOSED AHEAD" SIGNS SHALL BE USED IN LIEU OF THE "RAMP CLOSED AHEAD" SIGNS SHOWN ON STANDARD PLAN T14.



STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No. (X)	SIGN CODE	PANEL SIZE	No. OF POSTS AND SIZE	No. OF SIGNS	SIGN MESSAGE
A	C40 (CA)	144" x 60"	2 - 6" x 8"	4	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES
B	C11 (CA)	90" x 48"	2 - 6" x 6"	2	ROAD CONSTRUCTION NEXT 62 MILES
C	C11 (CA)	90" x 48"	2 - 6" x 6"	2	ROAD CONSTRUCTION NEXT 22 MILES
D	W20-1	36" x 36"	1 - 4" x 6"	4	ROAD WORK AHEAD
E	C14 (CA)	48" x 24"	1 - 4" x 6"	4	END ROAD WORK
TOTAL				16	

PORTABLE CHANGEABLE MESSAGE SIGN

QUANTITY (EACH)
4

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY

CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN B

FUNCTIONAL SUPERVISOR: LARRY SARTORI
CALCULATED-DESIGNED BY: CHRIS HARDIMON
CHECKED BY: LARRY SARTORI
REVISED BY
DATE REVISED

LAST REVISION 02-14-11
DATE PLOTTED => 11-FEB-2011
TIME PLOTTED => 09:04

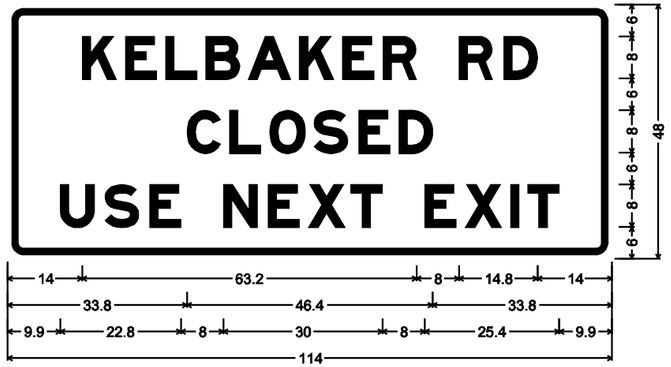
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15,40	R124.0/186.2, R50.9/R73.1	9	34

REGISTERED CIVIL ENGINEER 2-14-11 DATE

2-14-11
PLANS APPROVAL DATE

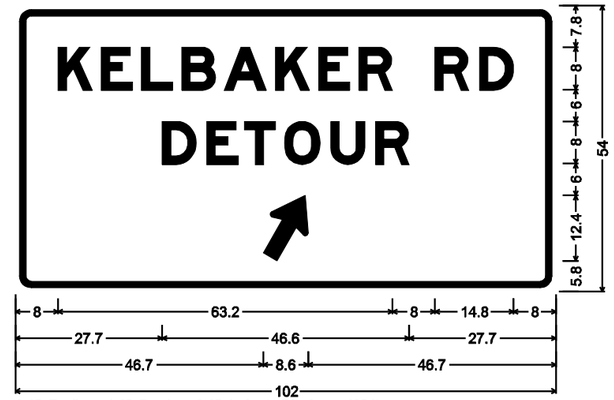
REGISTERED PROFESSIONAL ENGINEER CHRIS HARDIMON No. C66092 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA

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



3.0" Radius, 1.3" Border, 0.8" Indent, Black on White;
[KELBAKER RD] E Mod; [CLOSED] E Mod; [USE NEXT EXIT] E Mod;

C-SPEC1 SIGN DETAIL

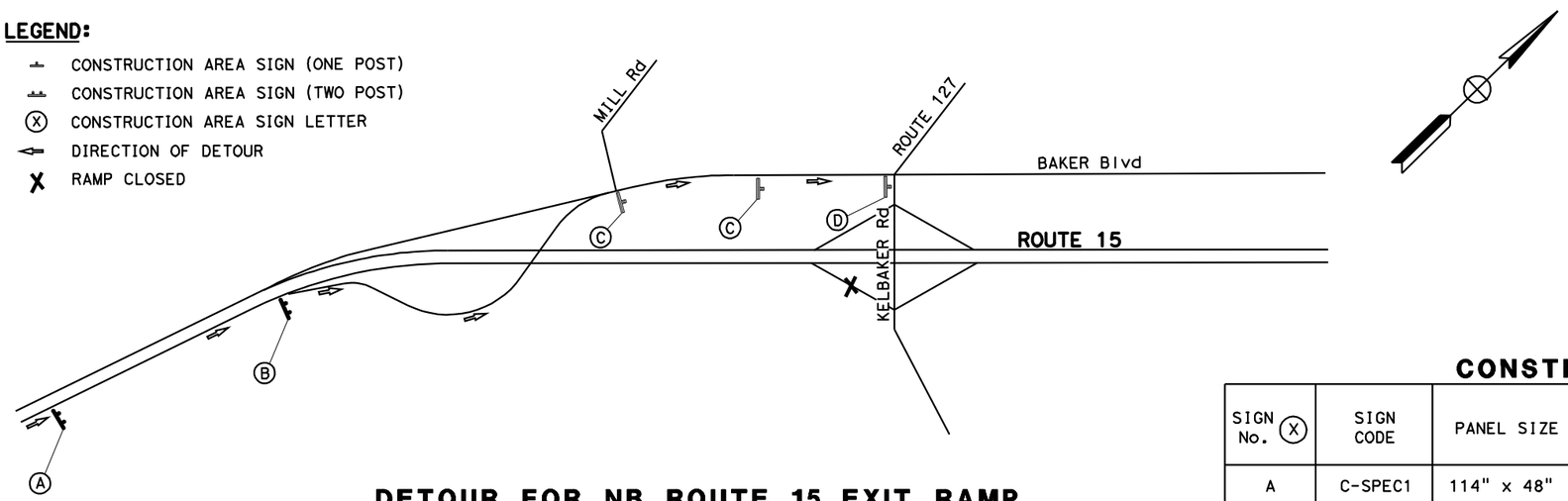


3.0" Radius, 1.3" Border, 0.8" Indent, Black on White;
[KELBAKER RD] E Mod; [DETOUR] E Mod;
Standard Arrow Custom 13.4" X 8.1" 60°;

C-SPEC2 SIGN DETAIL

LEGEND:

- CONSTRUCTION AREA SIGN (ONE POST)
- CONSTRUCTION AREA SIGN (TWO POST)
- (X) CONSTRUCTION AREA SIGN LETTER
- DIRECTION OF DETOUR
- X RAMP CLOSED



DETOUR FOR NB ROUTE 15 EXIT RAMP CLOSURE FROM ROUTE 127/KELBAKER RD

CONSTRUCTION AREA SIGNS

SIGN No. (X)	SIGN CODE	PANEL SIZE	SIGN MESSAGE	No. OF POSTS AND SIZE	No. OF SIGNS
A	C-SPEC1	114" x 48"	KELBAKER RD CLOSED USE NEXT EXIT	2 - 6" x 6"	1
B	C-SPEC2	102" x 54"	KELBAKER RD DETOUR	2 - 6" x 6"	1
C *	SC3(CA)	48" x 18"	↑ DETOUR	1 - 4" x 6"	2
	M3-1	24" x 12"	NORTH		
	M1-1	36" x 36"	INTERSTATE 15 SHIELD		
D *	M4-8a	24" x 18"	END DETOUR	1 - 4" x 4"	1
TOTAL					5

* SIGNS MAY BE PORTABLE

THIS PLAN ACCURATE FOR DETOUR CONSTRUCTION WORK ONLY

DETOUR PLAN

NO SCALE

DE-1

REVISED BY | DATE REVISED
CHRIS HARDIMON | LARRY SARTORI
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
LARRY SARTORI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN B

LAST REVISION 02-14-11 | DATE PLOTTED => 11-FEB-2011 | TIME PLOTTED => 09:04

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15,40	R124.0/186.2, R50.9/R73.1	10	34

REGISTERED CIVIL ENGINEER 2-14-11 DATE

2-14-11
PLANS APPROVAL DATE

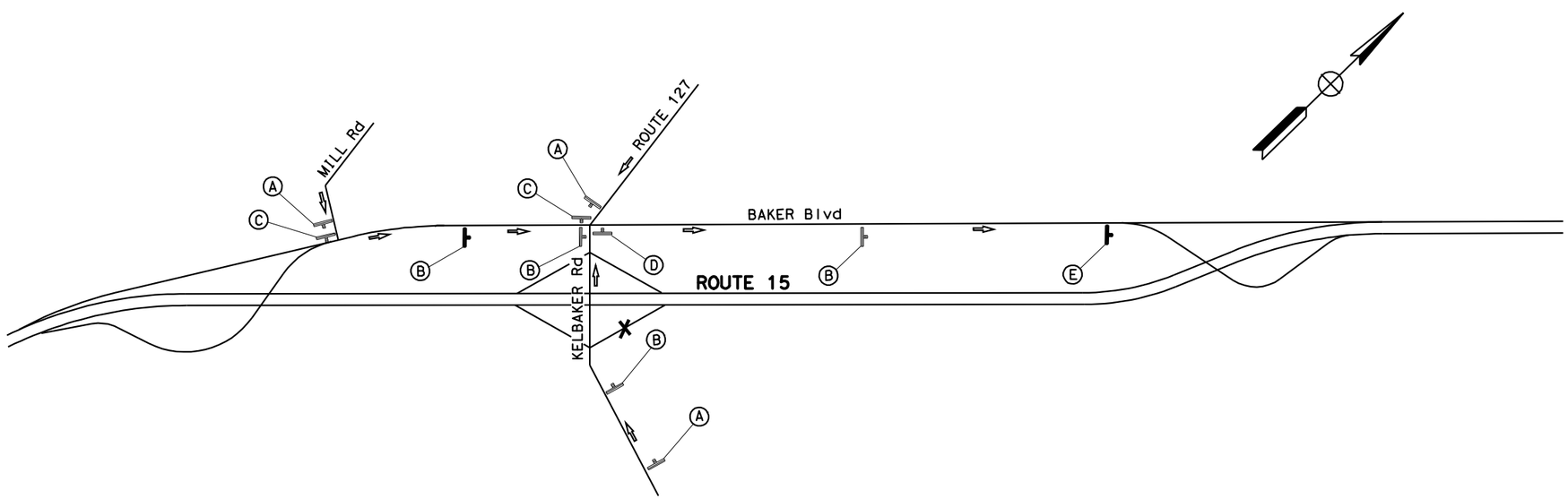
REGISTERED PROFESSIONAL ENGINEER CHRIS HARDIMON No. C66092 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA

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

CONSTRUCTION AREA SIGNS

SIGN No. (X)	SIGN CODE	PANEL SIZE	SIGN MESSAGE	No. OF POSTS AND SIZE	No. OF SIGNS
A	W20-2	48" x 48"	DETOUR AHEAD	1 - 6" x 6"	3
B *	SC3(CA)	48" x 18"	↑ DETOUR	1 - 4" x 6"	4
	M3-1	24" x 12"	NORTH		
	M1-1	36" x 36"	INTERSTATE 15 SHIELD		
C *	M4-10(L†)	48" x 18"	DETOUR	1 - 4" x 6"	2
	M3-1	24" x 12"	NORTH		
	M1-1	36" x 36"	INTERSTATE 15 SHIELD		
D *	M4-10(R†)	48" x 18"	DETOUR	1 - 4" x 4"	1
	M3-1	24" x 12"	NORTH		
	M1-1	36" x 36"	INTERSTATE 15 SHIELD		
E *	M4-8a	24" x 18"	END DETOUR	1 - 4" x 4"	1
TOTAL					11

* SIGNS MAY BE PORTABLE



DETOUR FOR NB ROUTE 15 ENTRANCE RAMP CLOSURE FROM ROUTE 127/KELBAKER RD

THIS PLAN ACCURATE FOR DETOUR CONSTRUCTION WORK ONLY

DETOUR PLAN

NO SCALE

DE-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN B

FUNCTIONAL SUPERVISOR: LARRY SARTORI

CALCULATED-DESIGNED BY: CHRIS HARDIMON
CHECKED BY: LARRY SARTORI

REVISED BY
DATE REVISED

LAST REVISION 02-14-11
DATE PLOTTED => 11-FEB-2011
TIME PLOTTED => 09:04

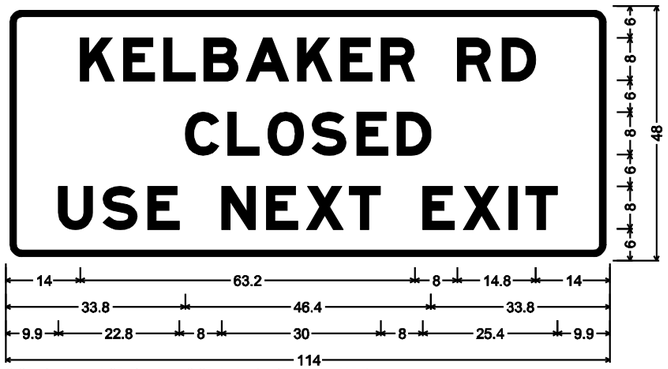
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15,40	R124.0/186.2, R50.9/R73.1	11	34

REGISTERED CIVIL ENGINEER 2-14-11 DATE

2-14-11
PLANS APPROVAL DATE

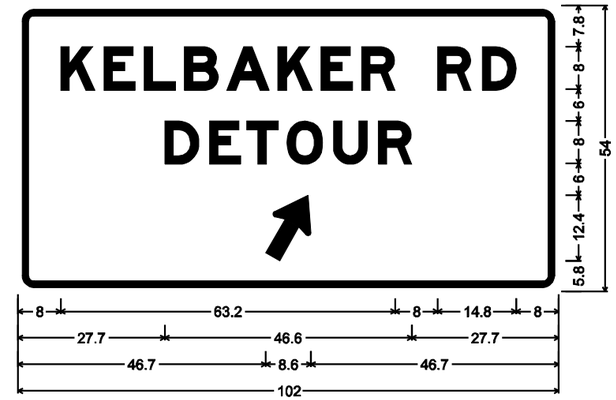
REGISTERED PROFESSIONAL ENGINEER CHRIS HARDIMON No. C66092 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA

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



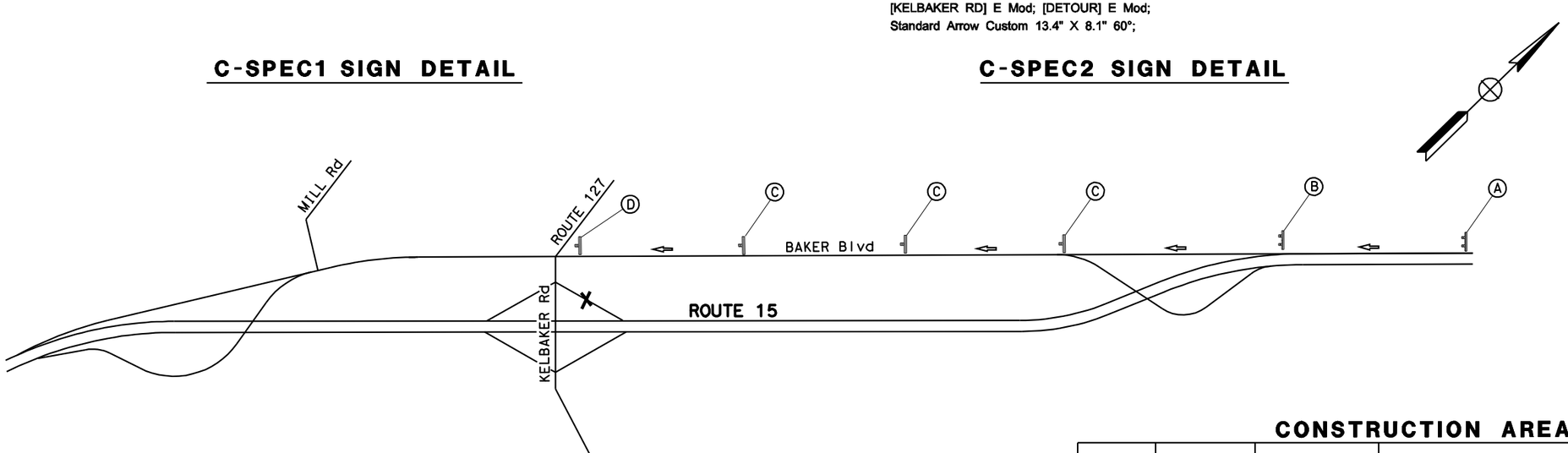
3.0" Radius, 1.3" Border, 0.8" Indent, Black on White;
[KELBAKER RD] E Mod; [CLOSED] E Mod; [USE NEXT EXIT] E Mod;

C-SPEC1 SIGN DETAIL



3.0" Radius, 1.3" Border, 0.8" Indent, Black on White;
[KELBAKER RD] E Mod; [DETOUR] E Mod;
Standard Arrow Custom 13.4" X 8.1" 60°;

C-SPEC2 SIGN DETAIL



DETOUR FOR SB ROUTE 15 EXIT RAMP CLOSURE FROM ROUTE 127/KELBAKER RD

CONSTRUCTION AREA SIGNS

SIGN No. (X)	SIGN CODE	PANEL SIZE	SIGN MESSAGE	No. OF POSTS AND SIZE	No. OF SIGNS
A	C-SPEC1	114" x 48"	KELBAKER RD CLOSED USE NEXT EXIT	2 - 6" x 6"	1
B	C-SPEC2	102" x 54"	KELBAKER RD DETOUR	2 - 6" x 6"	1
C *	SC3(CA)	48" x 18"	↑ DETOUR	1 - 4" x 6"	3
	M3-3	24" x 12"	SOUTH		
	M1-1	36" x 36"	INTERSTATE 15 SHIELD		
D *	M4-8a	24" x 18"	END DETOUR	1 - 4" x 4"	1
TOTAL					6

* SIGNS MAY BE PORTABLE

THIS PLAN ACCURATE FOR DETOUR CONSTRUCTION WORK ONLY

DETOUR PLAN

NO SCALE

DE-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN B

FUNCTIONAL SUPERVISOR: LARRY SARTORI
CALCULATED-DESIGNED BY: CHRIS HARDIMON
CHECKED BY: LARRY SARTORI
REVISED BY
DATE REVISED

LAST REVISION 02-14-11
DATE PLOTTED => 11-FEB-2011
TIME PLOTTED => 09:04

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15,40	R124.0/186.2, R50.9/R73.1	12	34

REGISTERED CIVIL ENGINEER 2-14-11 DATE

2-14-11
PLANS APPROVAL DATE

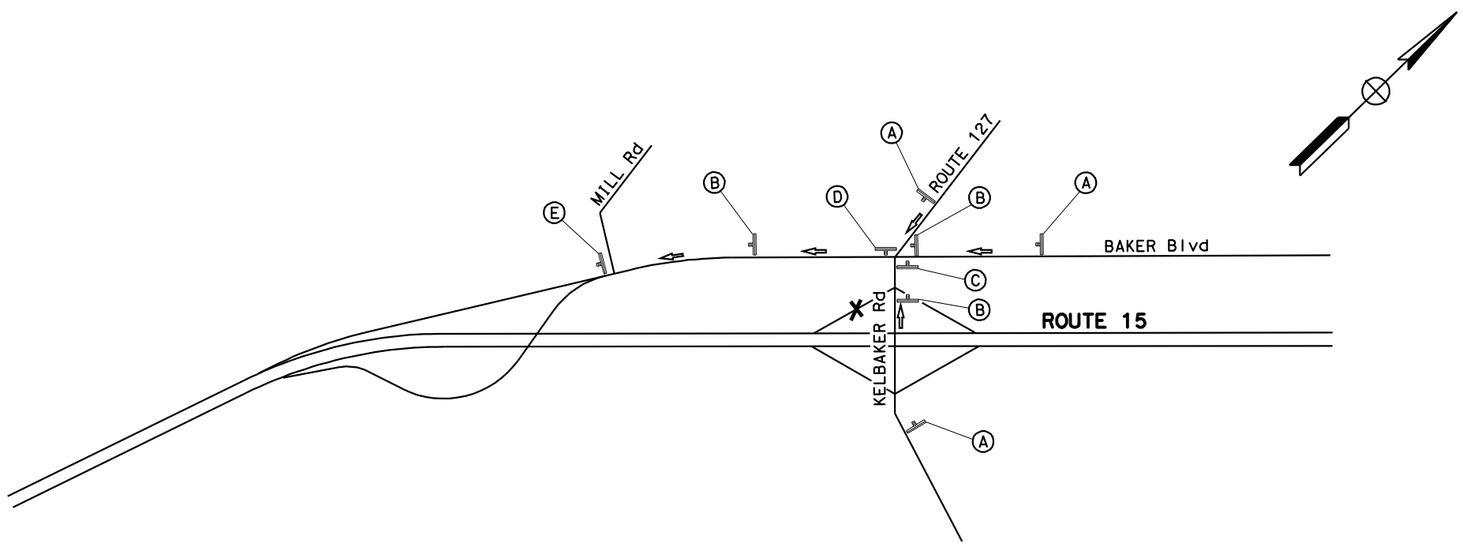
REGISTERED PROFESSIONAL ENGINEER CHRIS HARDIMON No. C66092 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA

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

CONSTRUCTION AREA SIGNS

SIGN No. (X)	SIGN CODE	PANEL SIZE	SIGN MESSAGE	No. OF POSTS AND SIZE	No. OF SIGNS
A	W20-2	48" x 48"	DETOUR AHEAD	1 - 6" x 6"	3
B *	SC3(CA)	48" x 18"	↑ DETOUR	1 - 4" x 6"	3
	M3-3	24" x 12"	SOUTH		
	M1-1	36" x 36"	INTERSTATE 15 SHIELD		
C *	M4-10(Lt)	48" x 18"	DETOUR	1 - 4" x 6"	1
	M3-3	24" x 12"	SOUTH		
	M1-1	36" x 36"	INTERSTATE 15 SHIELD		
D *	M4-10(Rt)	48" x 18"	DETOUR	1 - 4" x 4"	1
	M3-3	24" x 12"	SOUTH		
	M1-1	36" x 36"	INTERSTATE 15 SHIELD		
E *	M4-8a	24" x 18"	END DETOUR	1 - 4" x 4"	1
TOTAL					9

* SIGNS MAY BE PORTABLE



DETOUR FOR SB ROUTE 15 ENTRANCE RAMP CLOSURE FROM ROUTE 127/KELBAKER RD

THIS PLAN ACCURATE FOR DETOUR CONSTRUCTION WORK ONLY

DETOUR PLAN

NO SCALE

DE-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN B

FUNCTIONAL SUPERVISOR: LARRY SARTORI
CALCULATED-DESIGNED BY: CHRIS HARDIMON
CHECKED BY: LARRY SARTORI
REVISED BY
DATE REVISED

LAST REVISION 02-14-11
DATE PLOTTED => 11-FEB-2011
TIME PLOTTED => 09:04

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15,40	R124.0/186.2, R50.9/R73.1	13	34

REGISTERED CIVIL ENGINEER 2-14-11 DATE

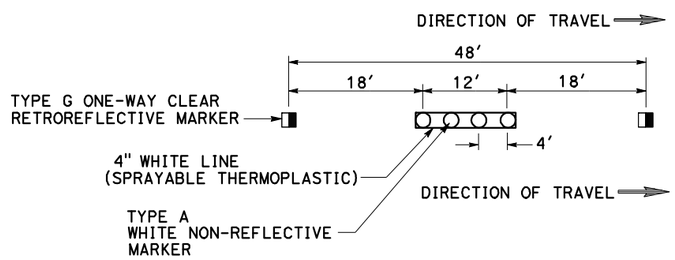
2-14-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER CHRIS HARDIMON No. C66092 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA

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

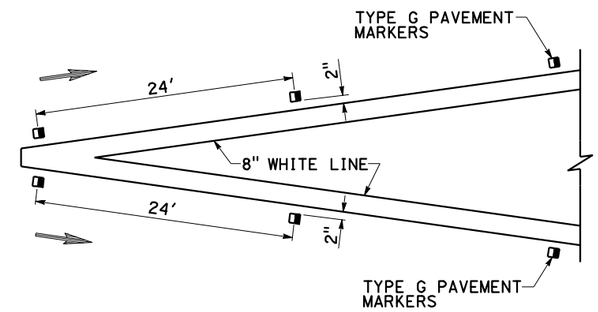
NOTES:

1. AIRCRAFT MARKING BARS SHALL BE PLACED ON THE OUTSIDE SHOULDER EVERY MILE.
2. AIRCRAFT MARKING POSTMILE SHALL BE PLACED ON THE OUTSIDE SHOULDER EVERY 5 MILES.
3. ALL PAVEMENT DELINEATION SHALL BE REPLACED IN KIND.

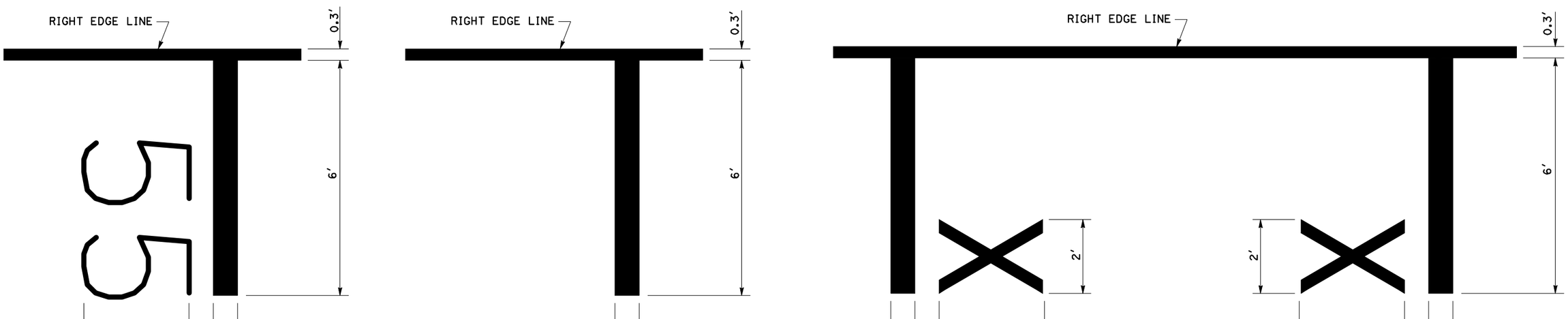


DETAIL 13 MODIFIED (13M)

INSTALL TYPE A NON-REFLECTIVE MARKER WITH STRIPING DETAIL 13M
INSTALL TYPE A MARKER BEFORE STRIPING TO GET THE PROPER BONDING



DETAIL 36 SPECIAL



TYPICAL AIRCRAFT POSTMILE MARKING

PAVEMENT DELINEATION PLAN

NO SCALE

PD-1

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN B

FUNCTIONAL SUPERVISOR: LARRY SARTORI
CALCULATED-DESIGNED BY: CHRIS HARDIMON
CHECKED BY: LARRY SARTORI
REVISED BY
DATE REVISED

LAST REVISION 02-14-11
DATE PLOTTED => 11-FEB-2011
TIME PLOTTED => 09:04

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15,40	R124.0/186.2, R50.9/R73.1	14	34

REGISTERED CIVIL ENGINEER 2-14-11 DATE

2-14-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER CHRIS HARDIMON No. C66092 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA

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

PAVEMENT DELINEATION QUANTITIES

SHEET No.	LOCATION	DETAIL No. OR PAVEMENT MARKING	REMOVE PAVEMENT MARKERS	PAVEMENT MARKER					THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)				THERMOPLASTIC PAVEMENT MARKING
				NON-REFLECTIVE TYPE	RETROREFLECTIVE TYPE		RECESSED TYPE						
				A	G	H	G	H	4" YELLOW	4" WHITE	6" WHITE	8" WHITE	
			EA	EA	EA		EA		LF				SQFT
-	RTE 15 PM 150.0/156.6 NB (MAINLINE)	12	1,456	-	-	-	1,456	-	-	69,696	-	-	-
-	RTE 15 PM 156.6/163.5 NB (MAINLINE)	12	760	-	-	-	760	-	-	36,432	-	-	-
-	RTE 15 PM 163.5/169.0 NB (MAINLINE)	12	1,212	-	-	-	1,212	-	-	58,080	-	-	-
-	RTE 15 PM 150.0/156.0 SB (MAINLINE)	12	1,322	-	-	-	1,322	-	-	63,360	-	-	-
-	RTE 15 PM 156.0/156.3 SB (MAINLINE)	12	34	-	-	-	34	-	-	1,584	-	-	-
-	RTE 15 PM 156.3/169.9 SB (MAINLINE)	12	-	-	-	-	-	-	-	71,808	-	-	-
-	RTE 15 PM 169.9/177.0 SB (MAINLINE)	12	-	-	-	-	-	-	-	74,976	-	-	-
-	RTE 15 PM 124.0/137.3 NB (MAINLINE)	13M	1,464	-	1,464	-	-	-	-	70,224	-	-	-
-	RTE 15 PM 137.3/139.4 NB (MAINLINE)	13M	232	-	232	-	-	-	-	11,088	-	-	-
-	RTE 15 PM 139.4/150.0 NB (MAINLINE)	13M	2,334	-	2,334	-	-	-	-	111,936	-	-	-
-	RTE 15 PM 181.5/181.8 NB (MAINLINE)	13M	68	-	68	-	-	-	-	3,168	-	-	-
-	RTE 15 PM 181.8/186.2 NB (MAINLINE)	13M	-	1,936	485	-	-	-	-	23,232	-	-	-
-	RTE 15 PM 124.0/137.3 SB (MAINLINE)	13M	1,464	-	1,464	-	-	-	-	70,224	-	-	-
-	RTE 15 PM 137.3/137.6 SB (MAINLINE)	13M	-	132	34	-	-	-	-	1,584	-	-	-
-	RTE 15 PM 137.6/150.0 SB (MAINLINE)	13M	-	10,912	2,730	-	-	-	-	130,944	-	-	-
-	RTE 15 PM 177.0/179.0 SB (MAINLINE)	13M	-	-	-	-	-	-	-	21,120	-	-	-
-	RTE 15 PM 179.0/181.5 SB (MAINLINE)	13M	552	-	552	-	-	-	-	26,400	-	-	-
-	RTE 15 PM 181.5/186.2 SB (MAINLINE)	13M	-	2,068	518	-	-	-	-	24,816	-	-	-
-	RTE 15 PM 124.0/150.0 NB (MAINLINE)	25	2,862	-	-	2,862	-	-	137,280	-	-	-	-
-	RTE 15 PM 150.0/169.0 NB (MAINLINE)	25	2,092	-	-	-	-	2,092	100,320	-	-	-	-
-	RTE 15 PM 181.5/186.2 NB (MAINLINE)	25	518	-	-	518	-	-	24,816	-	-	-	-
-	RTE 15 PM 124.0/137.3 SB (MAINLINE)	25	1,464	-	-	1,464	-	-	70,224	-	-	-	-
-	RTE 15 PM 137.3/177.0 SB (MAINLINE)	25	4,369	-	-	-	-	4,369	209,616	-	-	-	-
-	RTE 15 PM 177.0/186.2 SB (MAINLINE)	25	1,015	-	-	1,015	-	-	48,576	-	-	-	-
-	RTE 15 PM 124.0/169.0 NB (MAINLINE)	27B	-	-	-	-	-	-	-	237,600	-	-	-
-	RTE 15 PM 181.5/186.2 NB (MAINLINE)	27B	-	-	-	-	-	-	-	24,816	-	-	-
-	RTE 15 PM 124.0/186.2 SB (MAINLINE)	27B	-	-	-	-	-	-	-	328,416	-	-	-
-	RTE 15 PM 156.5/156.6 NB (MAINLINE)	37B	-	-	-	-	37	-	-	-	-	528	126
-	RTE 15 PM 172.2/172.3 NB (MAINLINE)	37B	-	-	37	-	-	-	-	-	-	528	126
-	RTE 15 PM 156.0/156.1 SB (MAINLINE)	37B	-	-	-	-	37	-	-	-	-	528	126
-	RTE 15 PM 181.3/181.4 SB (MAINLINE)	37B	-	-	37	-	-	-	-	-	-	528	126
-	RTE 15 PM 139.4/150.0 NB (MAINLINE)	38B	-	-	4,666	-	-	-	-	-	-	55,968	-
-	RTE 15 PM 150.0/156.5 NB (MAINLINE)	38B	-	-	-	-	2,862	-	-	-	-	34,320	-
-	RTE 15 PM 163.5/170.0 NB (MAINLINE)	38B	-	-	-	-	2,862	-	-	-	-	34,320	-
-	RTE 15 PM 170.0/172.2 NB (MAINLINE)	38B	-	-	970	-	-	-	-	-	-	11,616	-
-	RTE 15 PM 137.6/150.0 SB (MAINLINE)	38B	-	-	5,458	-	-	-	-	-	-	65,472	-
-	RTE 15 PM 150.0/156.0 SB (MAINLINE)	38B	-	-	-	-	2,642	-	-	-	-	31,680	-
-	RTE 15 PM 169.9/177.0 SB (MAINLINE)	38B	-	-	-	-	3,126	-	-	-	-	37,488	-
-	RTE 15 PM 177.0/181.3 SB (MAINLINE)	38B	-	-	1,894	-	-	-	-	-	-	22,704	-
-	AIRCRAFT MARKING POSTMILE RTE 15 PM 125.0 NB/SB	(125)	-	-	-	-	-	-	-	-	-	-	13
-	AIRCRAFT MARKING POSTMILE RTE 15 PM 130.0 NB/SB	(130)	-	-	-	-	-	-	-	-	-	-	12
-	AIRCRAFT MARKING POSTMILE RTE 15 PM 135.0 NB/SB	(135)	-	-	-	-	-	-	-	-	-	-	12
-	AIRCRAFT MARKING POSTMILE RTE 15 PM 140.0 NB/SB	(140)	-	-	-	-	-	-	-	-	-	-	12
-	AIRCRAFT MARKING POSTMILE RTE 15 PM 145.0 NB/SB	(145)	-	-	-	-	-	-	-	-	-	-	13
-	AIRCRAFT MARKING POSTMILE RTE 15 PM 150.0 NB/SB	(150)	-	-	-	-	-	-	-	-	-	-	13
-	AIRCRAFT MARKING POSTMILE RTE 15 PM 155.0 NB/SB	(155)	-	-	-	-	-	-	-	-	-	-	13
	SHEET TOTAL		23,218	15,048	22,943	5,859	16,350	6,461	590,832	1,461,504	-	295,680	592

NOTE:

1. FOR LOCATIONS OTHER THAN WHERE COLD PLANING IS PROPOSED, EXISTING TYPE A MARKERS SHALL NOT BE REMOVED.

PAVEMENT DELINEATION QUANTITIES

PDQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN B

FUNCTIONAL SUPERVISOR: LARRY SARTORI
CALCULATED-DESIGNED BY: CHRIS HARDIMON
CHECKED BY: LARRY SARTORI
REVISED BY
DATE REVISED

LAST REVISION 02-14-11 | DATE PLOTTED => 11-FEB-2011 | TIME PLOTTED => 09:04

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15,40	R124.0/186.2, R50.9/R73.1	15	34

REGISTERED CIVIL ENGINEER 2-14-11 DATE

2-14-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER CHRIS HARDIMON No. C66092 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA

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PAVEMENT DELINEATION QUANTITIES

SHEET No.	LOCATION	DETAIL No. OR PAVEMENT MARKING	REMOVE PAVEMENT MARKERS	PAVEMENT MARKER					THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)				THERMOPLASTIC PAVEMENT MARKING
				NON-REFLECTIVE TYPE	RETROREFLECTIVE TYPE		RECESSED TYPE						
				A	G	H	G	H	4" YELLOW	4" WHITE	6" WHITE	8" WHITE	
			EA	EA	EA		EA		LF				SQFT
-	AIRCRAFT MARKING POSTMILE RTE 15 PM 160.0 NB/SB	(160)	-	-	-	-	-	-	-	-	-	-	13
-	AIRCRAFT MARKING POSTMILE RTE 15 PM 165.0 NB/SB	(165)	-	-	-	-	-	-	-	-	-	-	13
-	AIRCRAFT MARKING POSTMILE RTE 15 PM 170.0 NB/SB	(170)	-	-	-	-	-	-	-	-	-	-	11
-	AIRCRAFT MARKING POSTMILE RTE 15 PM 175.0 NB/SB	(175)	-	-	-	-	-	-	-	-	-	-	11
-	AIRCRAFT MARKING POSTMILE RTE 15 PM 180.0 NB/SB	(180)	-	-	-	-	-	-	-	-	-	-	13
-	AIRCRAFT MARKING POSTMILE RTE 15 PM 185.0 NB/SB	(185)	-	-	-	-	-	-	-	-	-	-	13
-	AIRCRAFT MARKING BAR RTE 15 PM 124.0/186.2 NB/SB	-	-	-	-	-	-	-	-	-	-	-	804
-	AIRCRAFT MARKING RTE 15 PM 138.87 & 139.00 NB/SB	(X)	-	-	-	-	-	-	-	-	-	-	5
-	AIRCRAFT MARKING RTE 15 PM 170.07 & 170.09 NB/SB	(X)	-	-	-	-	-	-	-	-	-	-	5
-	AIRCRAFT MARKING RTE 15 PM 174.42 & 174.47 NB/SB	(X)	-	-	-	-	-	-	-	-	-	-	5
	SHEET TOTAL												893

REVISED BY | DATE REVISED

CHRIS HARDIMON | LARRY SARTORI

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR: LARRY SARTORI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN B

PAVEMENT DELINEATION QUANTITIES

PDQ-2

LAST REVISION 02-14-11 | DATE PLOTTED => 11-FEB-2011 | TIME PLOTTED => 09:04

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15,40	R124.0/186.2, R50.9/R73.1	16	34

REGISTERED CIVIL ENGINEER 2-14-11 DATE

2-14-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER CHRIS HARDIMON No. C66092 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA

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PAVEMENT DELINEATION QUANTITIES

SHEET No.	LOCATION	DETAIL No. OR PAVEMENT MARKING	REMOVE PAVEMENT MARKERS	PAVEMENT MARKER					THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)				THERMOPLASTIC PAVEMENT MARKING
				NON-REFLECTIVE TYPE	RETROREFLECTIVE TYPE		RECESSED TYPE						
				A	G	H	G	H	4" YELLOW	4" WHITE	6" WHITE	8" WHITE	
			EA	EA	EA		EA		LF				SQFT
-	RTE 15 RASOR ROAD NB EXIT RAMP	25A	49		-	49	-	-	1,160	-	-	-	-
-	-	27B	-		-	-	-	-	-	1,500	-	-	-
-	-	36	28		28	-	-	-	-	-	-	640	-
-	-	(STOP)	-		-	-	-	-	-	-	-	-	44
-	-	(AHEAD)	-		-	-	-	-	-	-	-	-	31
-	-	TYPE 1 ARROW	-		-	-	-	-	-	-	-	-	62
-	-	LIMIT LINE	-		-	-	-	-	-	-	-	-	60
-	RTE 15 RASOR ROAD NB ENTRANCE RAMP	25A	53		-	53	-	-	1,250	-	-	-	-
-	-	27B	-		-	-	-	-	-	1,660	-	-	-
-	-	36A	17		17	-	-	-	-	375	-	375	-
-	-	TYPE 1 ARROW	-		-	-	-	-	-	-	-	-	31
-	RTE 15 RASOR ROAD SB EXIT RAMP	25A	47		-	47	-	-	1,100	-	-	-	-
-	-	27B	-		-	-	-	-	-	1,450	-	-	-
-	-	36	31		31	-	-	-	-	-	-	730	-
-	-	(STOP)	-		-	-	-	-	-	-	-	-	44
-	-	(AHEAD)	-		-	-	-	-	-	-	-	-	31
-	-	TYPE 1 ARROW	-		-	-	-	-	-	-	-	-	62
-	-	LIMIT LINE	-		-	-	-	-	-	-	-	-	90
-	RTE 15 RASOR ROAD SB ENTRANCE RAMP	25A	41		-	41	-	-	950	-	-	-	-
-	-	27B	-		-	-	-	-	-	1,360	-	-	-
-	-	36A	17		17	-	-	-	-	390	-	390	-
-	-	TYPE 1 ARROW	-		-	-	-	-	-	-	-	-	31
-	RTE 15 ZZYZX ROAD NB EXIT RAMP	25A	40		-	40	-	-	930	-	-	-	-
-	-	27B	-		-	-	-	-	-	1,500	-	-	-
-	-	36	30		30	-	-	-	-	-	-	700	-
-	-	(STOP)	-		-	-	-	-	-	-	-	-	44
-	-	(AHEAD)	-		-	-	-	-	-	-	-	-	31
-	-	TYPE 1 ARROW	-		-	-	-	-	-	-	-	-	93
-	-	LIMIT LINE	-		-	-	-	-	-	-	-	-	70
-	RTE 15 ZZYZX ROAD NB ENTRANCE RAMP	25A	40		-	40	-	-	940	-	-	-	-
-	-	27B	-		-	-	-	-	-	1,430	-	-	-
-	-	36A	20		20	-	-	-	-	445	-	445	-
-	-	TYPE 1 ARROW	-		-	-	-	-	-	-	-	-	31
-	RTE 15 ZZYZX ROAD SB EXIT RAMP	25A	39		-	39	-	-	910	-	-	-	-
-	-	27B	-		-	-	-	-	-	1,420	-	-	-
-	-	36	30		30	-	-	-	-	-	-	700	-
-	-	(STOP)	-		-	-	-	-	-	-	-	-	44
-	-	(AHEAD)	-		-	-	-	-	-	-	-	-	31
-	-	TYPE 1 ARROW	-		-	-	-	-	-	-	-	-	93
-	-	LIMIT LINE	-		-	-	-	-	-	-	-	-	60
-	RTE 15 ZZYZX ROAD SB ENTRANCE RAMP	25A	24		-	24	-	-	550	-	-	-	-
-	-	27B	-		-	-	-	-	-	880	-	-	-
-	-	36A	16		16	-	-	-	-	350	-	350	-
-	-	TYPE 1 ARROW	-		-	-	-	-	-	-	-	-	31
	SHEET TOTAL		522		189	333	-	-	7,790	12,760	-	4,330	1,014

PAVEMENT DELINEATION QUANTITIES

PDQ-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN B

FUNCTIONAL SUPERVISOR: LARRY SARTORI
CALCULATED-DESIGNED BY: CHRIS HARDIMON
CHECKED BY: LARRY SARTORI
REVISED BY
DATE REVISED

LAST REVISION 02-14-11
DATE PLOTTED => 11-FEB-2011
TIME PLOTTED => 09:04

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15,40	R124.0/186.2, R50.9/R73.1	17	34

REGISTERED CIVIL ENGINEER 2-14-11 DATE

2-14-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER CHRIS HARDIMON No. C66092 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA

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

PAVEMENT DELINEATION QUANTITIES

SHEET No.	LOCATION	DETAIL No. OR PAVEMENT MARKING	REMOVE PAVEMENT MARKERS	PAVEMENT MARKER					THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)				THERMOPLASTIC PAVEMENT MARKING
				NON-REFLECTIVE TYPE	RETROREFLECTIVE TYPE		RECESSED TYPE						
				A	G	H	G	H	4" YELLOW	4" WHITE	6" WHITE	8" WHITE	
			EA	EA	EA		EA		LF				SQFT
-	RTE 15 KELBAKER ROAD NB EXIT RAMP	25A	47		-	47	-	-	1,110	-	-	-	-
-	-	27B	-		-	-	-	-	-	1,500	-	-	-
-	-	36	32		32	-	-	-	-	-	-	750	-
-	-	(STOP)	-		-	-	-	-	-	-	-	-	44
-	-	(AHEAD)	-		-	-	-	-	-	-	-	-	31
-	-	TYPE I ARROW	-		-	-	-	-	-	-	-	-	62
-	-	LIMIT LINE	-		-	-	-	-	-	-	-	-	50
-	RTE 15 KELBAKER ROAD NB ENTRANCE RAMP	25A	47		-	47	-	-	1,110	-	-	-	-
-	-	27B	-		-	-	-	-	-	1,420	-	-	-
-	-	36A	17		17	-	-	-	-	375	-	375	-
-	-	TYPE I ARROW	-		-	-	-	-	-	-	-	-	31
-	RTE 15 KELBAKER ROAD SB EXIT RAMP	25A	41		-	41	-	-	960	-	-	-	-
-	-	27B	-		-	-	-	-	-	1,300	-	-	-
-	-	36	29		29	-	-	-	-	-	-	660	-
-	-	(STOP)	-		-	-	-	-	-	-	-	-	44
-	-	(AHEAD)	-		-	-	-	-	-	-	-	-	31
-	-	TYPE I ARROW	-		-	-	-	-	-	-	-	-	62
-	-	LIMIT LINE	-		-	-	-	-	-	-	-	-	70
-	RTE 15 KELBAKER ROAD SB ENTRANCE RAMP	25A	41		-	41	-	-	950	-	-	-	-
-	-	27B	-		-	-	-	-	-	1,250	-	-	-
-	-	36A	18		18	-	-	-	-	400	-	400	-
-	-	TYPE I ARROW	-		-	-	-	-	-	-	-	-	31
-	RTE 15 HALLORAN SPRINGS ROAD NB EXIT RAMP	25A	35		-	35	-	-	810	-	-	-	-
-	-	27B	-		-	-	-	-	-	1,320	-	-	-
-	-	36	26		26	-	-	-	-	-	-	600	-
-	-	(STOP)	-		-	-	-	-	-	-	-	-	44
-	-	(AHEAD)	-		-	-	-	-	-	-	-	-	31
-	-	TYPE I ARROW	-		-	-	-	-	-	-	-	-	62
-	-	LIMIT LINE	-		-	-	-	-	-	-	-	-	75
-	RTE 15 HALLORAN SPRINGS ROAD NB ENTRANCE RAMP	25A	34		-	34	-	-	780	-	-	-	-
-	-	27B	-		-	-	-	-	-	1,100	-	-	-
-	-	36A	14		14	-	-	-	-	300	-	300	-
-	-	TYPE I ARROW	-		-	-	-	-	-	-	-	-	31
-	RTE 15 HALLORAN SPRINGS ROAD SB EXIT RAMP	25A	43		-	43	-	-	1,000	-	-	-	-
-	-	27B	-		-	-	-	-	-	1,540	-	-	-
-	-	36	33		33	-	-	-	-	-	-	770	-
-	-	(STOP)	-		-	-	-	-	-	-	-	-	44
-	-	(AHEAD)	-		-	-	-	-	-	-	-	-	31
-	-	TYPE I ARROW	-		-	-	-	-	-	-	-	-	62
-	-	LIMIT LINE	-		-	-	-	-	-	-	-	-	70
-	RTE 15 HALLORAN SPRINGS ROAD SB ENTRANCE RAMP	25A	43		-	43	-	-	1,000	-	-	-	-
-	-	27B	-		-	-	-	-	-	1,360	-	-	-
-	-	36A	16		16	-	-	-	-	350	-	350	-
-	-	TYPE I ARROW	-		-	-	-	-	-	-	-	-	31
	SHEET TOTAL		516		185	331	-	-	7,720	12,215	-	4,205	937

REVISED BY | DATE REVISED
CHRIS HARDIMON | LARRY SARTORI
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
LARRY SARTORI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN B

PAVEMENT DELINEATION QUANTITIES

PDQ-4

LAST REVISION 02-14-11 | DATE PLOTTED => 11-FEB-2011 | TIME PLOTTED => 09:04

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15,40	R124.0/186.2, R50.9/R73.1	18	34

REGISTERED CIVIL ENGINEER 2-14-11 DATE

2-14-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER CHRIS HARDIMON No. C66092 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA

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

PAVEMENT DELINEATION QUANTITIES

SHEET No.	LOCATION	DETAIL No. OR PAVEMENT MARKING	REMOVE PAVEMENT MARKERS	PAVEMENT MARKER					THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)				THERMOPLASTIC PAVEMENT MARKING
				NON-REFLECTIVE TYPE	RETROREFLECTIVE TYPE		RECESSED TYPE						
				A	G	H	G	H	4" YELLOW	4" WHITE	6" WHITE	8" WHITE	
			EA	EA	EA		EA		LF				SQFT
-	RTE 15 HALLORAN SUMMIT ROAD NB EXIT RAMP	25A	46		-	-	-	46	1,070	-	-	-	-
-	-	27B	-		-	-	-	-	-	1,570	-	-	-
-	-	36	29		-	-	29	-	-	-	-	680	-
-	-	(STOP)	-		-	-	-	-	-	-	-	-	44
-	-	(AHEAD)	-		-	-	-	-	-	-	-	-	31
-	-	TYPE 1ARROW	-		-	-	-	-	-	-	-	-	62
-	-	LIMIT LINE	-		-	-	-	-	-	-	-	-	75
-	RTE 15 HALLORAN SUMMIT ROAD NB ENTRANCE RAMP	25A	43		-	-	-	43	1,000	-	-	-	-
-	-	27B	-		-	-	-	-	-	1,680	-	-	-
-	-	36A	17		-	-	17	-	-	390	-	390	-
-	-	TYPE 1ARROW	-		-	-	-	-	-	-	-	-	31
-	RTE 15 HALLORAN SUMMIT ROAD SB EXIT RAMP	25A	43		-	-	-	43	1,000	-	-	-	-
-	-	27B	-		-	-	-	-	-	1,540	-	-	-
-	-	36	44		-	-	44	-	-	-	-	1,030	-
-	-	(STOP)	-		-	-	-	-	-	-	-	-	44
-	-	(AHEAD)	-		-	-	-	-	-	-	-	-	31
-	-	TYPE 1ARROW	-		-	-	-	-	-	-	-	-	62
-	-	LIMIT LINE	-		-	-	-	-	-	-	-	-	50
-	RTE 15 HALLORAN SUMMIT ROAD SB ENTRANCE RAMP	25A	37		-	-	-	37	870	-	-	-	-
-	-	27B	-		-	-	-	-	-	1,370	-	-	-
-	-	36A	20		-	-	20	-	-	450	-	450	-
-	-	TYPE 1ARROW	-		-	-	-	-	-	-	-	-	31
-	RTE 15 CIMA ROAD NB EXIT RAMP	25A	43		-	-	-	43	1,010	-	-	-	-
-	-	27B	-		-	-	-	-	-	1,480	-	-	-
-	-	36	26		-	-	26	-	-	-	-	600	-
-	-	(STOP)	-		-	-	-	-	-	-	-	-	44
-	-	(AHEAD)	-		-	-	-	-	-	-	-	-	31
-	-	TYPE 1ARROW	-		-	-	-	-	-	-	-	-	62
-	-	LIMIT LINE	-		-	-	-	-	-	-	-	-	70
-	RTE 15 CIMA ROAD NB ENTRANCE RAMP	25A	43		-	-	-	43	1,000	-	-	-	-
-	-	27B	-		-	-	-	-	-	1,450	-	-	-
-	-	36A	15		-	-	15	-	-	325	-	325	-
-	-	TYPE 1ARROW	-		-	-	-	-	-	-	-	-	31
-	RTE 15 CIMA ROAD SB EXIT RAMP	25A	43		-	-	-	43	1,000	-	-	-	-
-	-	27B	-		-	-	-	-	-	1,310	-	-	-
-	-	36	28		-	-	28	-	-	-	-	650	-
-	-	(STOP)	-		-	-	-	-	-	-	-	-	44
-	-	(AHEAD)	-		-	-	-	-	-	-	-	-	31
-	-	TYPE 1ARROW	-		-	-	-	-	-	-	-	-	62
-	-	LIMIT LINE	-		-	-	-	-	-	-	-	-	60
-	RTE 15 CIMA ROAD SB ENTRANCE RAMP	25A	43		-	-	-	43	1,000	-	-	-	-
-	-	27B	-		-	-	-	-	-	1,270	-	-	-
-	-	36A	11		-	-	11	-	-	250	-	250	-
-	-	TYPE 1ARROW	-		-	-	-	-	-	-	-	-	31
SHEET TOTAL			531		-	-	190	341	7,950	13,085	-	4,375	927

REVISED BY | DATE REVISED
CHRIS HARDIMON | LARRY SARTORI
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: LARRY SARTORI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN B

PAVEMENT DELINEATION QUANTITIES

PDQ-5

LAST REVISION 02-14-11 | DATE PLOTTED => 11-FEB-2011 | TIME PLOTTED => 09:04

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15,40	R124.0/186.2, R50.9/R73.1	19	34

REGISTERED CIVIL ENGINEER 2-14-11 DATE

2-14-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER CHRIS HARDIMON No. C66092 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA

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

PAVEMENT DELINEATION QUANTITIES

SHEET No.	LOCATION	DETAIL No. OR PAVEMENT MARKING	REMOVE PAVEMENT MARKERS	PAVEMENT MARKER					THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)				THERMOPLASTIC PAVEMENT MARKING
				NON-REFLECTIVE TYPE	RETROREFLECTIVE TYPE		RECESSED TYPE						
				A	G	H	G	H	4" YELLOW	4" WHITE	6" WHITE	8" WHITE	
			EA	EA	EA		EA		LF				SQFT
-	RTE 15 YATES ROAD NB EXIT RAMP	25A	64		-	64	-	-	1,500	-	-	-	-
-	-	27B	-		-	-	-	-	-	2,000	-	-	-
-	-	36	33		33	-	-	-	-	-	-	770	-
-	-	(STOP)	-		-	-	-	-	-	-	-	-	44
-	-	(AHEAD)	-		-	-	-	-	-	-	-	-	31
-	-	TYPE I ARROW	-		-	-	-	-	-	-	-	-	62
-	-	LIMIT LINE	-		-	-	-	-	-	-	-	-	50
-	RTE 15 YATES ROAD NB ENTRANCE RAMP	25A	47		-	47	-	-	1,100	-	-	-	-
-	-	27B	-		-	-	-	-	-	1,370	-	-	-
-	-	36A	14		14	-	-	-	-	300	-	300	-
-	-	TYPE I ARROW	-		-	-	-	-	-	-	-	-	31
-	RTE 15 YATES ROAD SB EXIT RAMP	25A	57		-	57	-	-	1,350	-	-	-	-
-	-	27B	-		-	-	-	-	-	1,950	-	-	-
-	-	36	32		32	-	-	-	-	-	-	750	-
-	-	(STOP)	-		-	-	-	-	-	-	-	-	44
-	-	(AHEAD)	-		-	-	-	-	-	-	-	-	31
-	-	TYPE I ARROW	-		-	-	-	-	-	-	-	-	62
-	-	LIMIT LINE	-		-	-	-	-	-	-	-	-	50
-	RTE 15 YATES ROAD SB ENTRANCE RAMP	25A	43		-	43	-	-	1,000	-	-	-	-
-	-	27B	-		-	-	-	-	-	1,380	-	-	-
-	-	36A	11		11	-	-	-	-	250	-	250	-
-	-	TYPE I ARROW	-		-	-	-	-	-	-	-	-	31
-	RTE 15 VALLEY WELLS REST AREA NB	25A	22		-	-	-	22	1,600	-	-	-	-
-	-	27B	-		-	-	-	-	-	1,790	-	-	-
-	-	36	26		-	-	26	-	-	-	-	600	-
-	-	36A	10		-	-	10	-	-	215	-	215	-
-	-	36 SPECIAL	9		-	-	9	-	-	-	-	200	-
-	-	TYPE V ARROW	-		-	-	-	-	-	-	-	-	264
-	-	PARKING STALL MARKINGS	-		-	-	-	-	-	1,810	-	-	-
-	RTE 15 VALLEY WELLS REST AREA SB	25A	22		-	-	-	22	1,600	-	-	-	-
-	-	27B	-		-	-	-	-	-	1,790	-	-	-
-	-	36	26		-	-	26	-	-	-	-	600	-
-	-	36A	10		-	-	10	-	-	215	-	215	-
-	-	36 SPECIAL	9		-	-	9	-	-	-	-	200	-
-	-	TYPE V ARROW	-		-	-	-	-	-	-	-	-	264
-	-	PARKING STALL MARKINGS	-		-	-	-	-	-	1,810	-	-	-
-	RTE 15 BRAKE INSPECTION NB	25A	41		-	41		-	920	-	-	-	-
-	-	27B	-		-	-	-	-	-	1,700	-	-	-
-	-	36	16		16	-	-	-	-	-	-	350	-
-	-	36A	14		14	-	-	-	-	300	-	300	-
-	RTE 15 WEST BAKER NB EXIT RAMP	25A	139		-	139	-	-	3,300	-	-	-	-
-	-	27B	-		-	-	-	-	-	3,650	-	-	-
-	-	36	30		30	-	-	-	-	-	-	700	-
-	-	TYPE I ARROW	-		-	-	-	-	-	-	-	-	124
	SHEET TOTAL		675		150	391	90	44	12,370	20,530	-	5,450	1,088

PAVEMENT DELINEATION QUANTITIES

PDQ-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN B

FUNCTIONAL SUPERVISOR: LARRY SARTORI
CALCULATED-DESIGNED BY: CHRIS HARDIMON
CHECKED BY: LARRY SARTORI
REVISED BY
DATE REVISED

LAST REVISION 02-14-11
DATE PLOTTED => 11-FEB-2011
TIME PLOTTED => 09:04

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15,40	R124.0/186.2, R50.9/R73.1	20	34

REGISTERED CIVIL ENGINEER 2-14-11 DATE

2-14-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER CHRIS HARDIMON No. C66092 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA

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

PAVEMENT DELINEATION QUANTITIES

SHEET No.	LOCATION	DETAIL No. OR PAVEMENT MARKING	REMOVE PAVEMENT MARKERS	PAVEMENT MARKER					THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)				THERMOPLASTIC PAVEMENT MARKING
				NON-REFLECTIVE TYPE	RETROREFLECTIVE TYPE		RECESSED TYPE						
				A	G	H	G	H	4" YELLOW	4" WHITE	6" WHITE	8" WHITE	
			EA	EA	EA		EA		LF				SQFT
-	RTE 15 BAILEY ROAD NB EXIT RAMP	25A	41		-	41	-	-	950	-	-	-	-
-	-	27B	-		-	-	-	-	-	1,270	-	-	-
-	-	36	18		18	-	-	-	-	-	-	400	-
-	-	(STOP)	-		-	-	-	-	-	-	-	-	44
-	-	(AHEAD)	-		-	-	-	-	-	-	-	-	31
-	-	TYPE 1 ARROW	-		-	-	-	-	-	-	-	-	62
-	-	LIMIT LINE	-		-	-	-	-	-	-	-	-	60
-	RTE 15 BAILEY ROAD NB ENTRANCE RAMP	25A	34		-	34	-	-	800	-	-	-	-
-	-	27B	-		-	-	-	-	-	1,300	-	-	-
-	-	36A	11		11	-	-	-	-	250	-	250	-
-	-	TYPE 1 ARROW	-		-	-	-	-	-	-	-	-	31
-	RTE 15 BAILEY ROAD SB EXIT RAMP	25A	39		-	39	-	-	900	-	-	-	-
-	-	27B	-		-	-	-	-	-	1,450	-	-	-
-	-	36	26		26	-	-	-	-	-	-	600	-
-	-	(STOP)	-		-	-	-	-	-	-	-	-	44
-	-	(AHEAD)	-		-	-	-	-	-	-	-	-	31
-	-	TYPE 1 ARROW	-		-	-	-	-	-	-	-	-	62
-	-	LIMIT LINE	-		-	-	-	-	-	-	-	-	70
-	RTE 15 BAILEY ROAD SB ENTRANCE RAMP	25A	32		-	32	-	-	750	-	-	-	-
-	-	27B	-		-	-	-	-	-	1,000	-	-	-
-	-	36A	9		9	-	-	-	-	200	-	200	-
-	-	TYPE 1 ARROW	-		-	-	-	-	-	-	-	-	31
-	RTE 15 NIPTON ROAD NB EXIT RAMP	25A	47		-	47	-	-	1,100	-	-	-	-
-	-	27B	-		-	-	-	-	-	1,500	-	-	-
-	-	36	26		26	-	-	-	-	-	-	600	-
-	-	(STOP)	-		-	-	-	-	-	-	-	-	44
-	-	(AHEAD)	-		-	-	-	-	-	-	-	-	31
-	-	TYPE 1 ARROW	-		-	-	-	-	-	-	-	-	62
-	-	LIMIT LINE	-		-	-	-	-	-	-	-	-	70
-	RTE 15 NIPTON ROAD NB ENTRANCE RAMP	25A	64		-	64	-	-	1,500	-	-	-	-
-	-	27B	-		-	-	-	-	-	1,600	-	-	-
-	-	36A	7		7	-	-	-	-	150	-	150	-
-	-	TYPE 1 ARROW	-		-	-	-	-	-	-	-	-	31
-	RTE 15 NIPTON ROAD SB EXIT RAMP	25A	43		-	43	-	-	1,000	-	-	-	-
-	-	27B	-		-	-	-	-	-	1,400	-	-	-
-	-	36	26		26	-	-	-	-	-	-	600	-
-	-	(STOP)	-		-	-	-	-	-	-	-	-	44
-	-	(AHEAD)	-		-	-	-	-	-	-	-	-	31
-	-	TYPE 1 ARROW	-		-	-	-	-	-	-	-	-	62
-	-	LIMIT LINE	-		-	-	-	-	-	-	-	-	30
-	RTE 15 NIPTON ROAD SB ENTRANCE RAMP	25A	59		-	59	-	-	1,400	-	-	-	-
-	-	27B	-		-	-	-	-	-	1,900	-	-	-
-	-	36A	14		14	-	-	-	-	300	-	300	-
-	-	TYPE 1 ARROW	-		-	-	-	-	-	-	-	-	31
	SHEET TOTAL		496		137	359	-	-	8,400	12,320	-	3,100	902

PAVEMENT DELINEATION QUANTITIES

PDQ-7

REVISED BY | DATE REVISED
CHRIS HARDIMON | LARRY SARTORI
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: LARRY SARTORI
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN B

LAST REVISION 02-14-11 | DATE PLOTTED => 11-FEB-2011 | TIME PLOTTED => 09:04

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15,40	R124.0/186.2, R50.9/R73.1	21	34

REGISTERED CIVIL ENGINEER 2-14-11 DATE

2-14-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER CHRIS HARDIMON No. C66092 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA

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

PAVEMENT DELINEATION QUANTITIES

SHEET No.	LOCATION	DETAIL No. OR PAVEMENT MARKING	REMOVE PAVEMENT MARKERS	PAVEMENT MARKER					THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)				THERMOPLASTIC PAVEMENT MARKING
				NON-REFLECTIVE TYPE	RETROREFLECTIVE TYPE		RECESSED TYPE						
				A	G	H	G	H	4" YELLOW	4" WHITE	6" WHITE	8" WHITE	
			EA	EA	EA		EA		LF				SQFT
-	RTE 15 EAST BAKER NB ENTRANCE RAMP	12	24		24	-	-	-	-	1,100	-	-	-
-	-	25A	130		-	130	-	-	3,100	-	-	-	-
-	-	27B	-		-	-	-	-	-	3,650	-	-	-
-	-	36A	13		13	-	-	-	-	290	-	290	-
-	-	TYPE 1 ARROW	-		-	-	-	-	-	-	-	-	62
SHEET TOTAL			167		37	130	-	-	3,100	5,040	-	290	62
ROUTE 15 TOTAL			26,125	15,048	31,044		23,476		2,493,046				6,415

PAVEMENT DELINEATION QUANTITIES

PDQ-8

REVISED BY | DATE REVISED

CHRIS HARDIMON | LARRY SARTORI

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR: LARRY SARTORI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN B

LAST REVISION 02-14-11 | DATE PLOTTED => 11-FEB-2011 | TIME PLOTTED => 09:04

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15,40	R124.0/186.2, R50.9/R73.1	22	34

REGISTERED CIVIL ENGINEER 2-14-11 DATE

2-14-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER CHRIS HARDIMON No. C66092 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA

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PAVEMENT DELINEATION QUANTITIES

SHEET No.	LOCATION	DETAIL No. OR PAVEMENT MARKING	REMOVE PAVEMENT MARKERS	PAVEMENT MARKER					THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)				THERMOPLASTIC PAVEMENT MARKING
				NON-REFLECTIVE TYPE	RETROREFLECTIVE TYPE		RECESSED TYPE						
				A	G	H	G	H	4" YELLOW	4" WHITE	6" WHITE	8" WHITE	
			EA	EA	EA		EA		LF				SQFT
-	ROUTE 40 PM 50.9/73.1 NB/SB (MAINLINE)	13M	-	19,536	4,886	-	-	-	-	234,432	-	-	-
-	ROUTE 40 PM 50.9/73.1 NB/SB (MAINLINE)	25	4,886	-	-	4,886	-	-	234,432	-	-	-	-
-	ROUTE 40 PM 50.9/73.1 NB/SB (MAINLINE)	27B	-	-	-	-	-	-	-	234,432	-	-	-
-	AIRCRAFT MARKING POSTMILE RTE 40 PM 55.0 NB/SB	(55)	-	-	-	-	-	-	-	-	-	-	10
-	AIRCRAFT MARKING POSTMILE RTE 40 PM 60.0 NB/SB	(60)	-	-	-	-	-	-	-	-	-	-	10
-	AIRCRAFT MARKING POSTMILE RTE 40 PM 65.0 NB/SB	(65)	-	-	-	-	-	-	-	-	-	-	12
-	AIRCRAFT MARKING POSTMILE RTE 40 PM 70.0 NB/SB	(70)	-	-	-	-	-	-	-	-	-	-	9
-	AIRCRAFT MARKING BAR RTE 40 PM 50.9/73.1 NB/SB	-	-	-	-	-	-	-	-	-	-	-	264
ROUTE 40 TOTAL			4,886	19,536	4,886	4,886	-	-	234,432	468,864	-	-	305
ROUTE 40 AND ROUTE 15 GRAND TOTAL			31,011	34,584	40,816		23,476		3,196,342				6,720

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN B

FUNCTIONAL SUPERVISOR: LARRY SARTORI
CALCULATED-DESIGNED BY: CHRIS HARDIMON
CHECKED BY: LARRY SARTORI
REVISED BY
DATE REVISED

PAVEMENT DELINEATION QUANTITIES

PDQ-9

LAST REVISION 02-14-11
DATE PLOTTED => 11-FEB-2011
TIME PLOTTED => 09:04

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15,40	R124.0/186.2, R50.9/R73.1	23	34

REGISTERED CIVIL ENGINEER 2-14-11 DATE

2-14-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER CHRIS HARDIMON No. C66092 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA

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

ROADSIDE SIGN QUANTITIES

SIGN CODE	POST LENGTH		POST SIZE	ROADSIDE SIGN	REMARKS
	L†	R†		ONE POST	
	LF	LF		EA	
R48-2(CA)	16		4" x 6"	8	SPEED ENFORCED BY AIRCRAFT
TOTAL				8	

NOTES:

1. R48-2(CA) SIGNS SHALL BE PLACED AT 25 MILE INTERVALS.
2. EXACT LOCATION & POSITION OF ROADSIDE SIGNS TO BE DETERMINED BY THE ENGINEER. POST LENGTHS GIVEN ARE APPROXIMATE. EXACT LENGTH TO BE DETERMINED BY THE ENGINEER.

SIGN PANEL MATERIAL SUMMARY (CONTRACTOR FURNISHED)

SIGN No.	SIGN CODE	SIGN SIZE L x D	SIGN AREA (SQFT)	SINGLE FACED	BACKGROUND		LEGEND		GRAFFITI FILM	ROADSIDE
										SINGLE-SHEET
					SHEETING COLOR	RETROREFLECTIVE ASTM TYPE	SHEETING COLOR	RETROREFLECTIVE ASTM TYPE	PREMIUM	UNFRAMED ALUMINUM 0.063 inch
1	R48-2(CA)	36" x 48"	12	X	WHITE	III	BLACK	IV	X	96
TOTAL										96

NOTE:

1. CALIFORNIA SIGN CODES ARE DESIGNATED BY (CA); OTHERWISE, FEDERAL SIGN CODES ARE SHOWN

SIGN QUANTITIES

SQ-1

REVISED BY	DATE REVISED

CHRIS HARDIMON — LARRY SARTORI

CALCULATED-DESIGNED BY — CHECKED BY

FUNCTIONAL SUPERVISOR: LARRY SARTORI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN B

LAST REVISION 02-14-11 | DATE PLOTTED => 11-FEB-2011 | TIME PLOTTED => 09:04

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15,40	R124.0/186.2, R50.9/R73.1	24	34

Kamal Mchantaf 2-14-11
REGISTERED CIVIL ENGINEER DATE

2-14-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KAMAL MCHANTAF No. C051050 Exp. 9-30-11 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.

SLURRY SEAL

LOCATION/RAMP	PM	ROUTE 15 DIRECTION	ENTRANCE/ EXIT	AREA (SQYD)	SLURRY SEAL (TONS)
RASOR Rd	R124.016	NB	EXIT	3900	49
RASOR Rd	R124.479	NB	ENTRANCE	3280	41
RASOR Rd	R124.452	SB	EXIT	3470	43
RASOR Rd	R124.032	SB	ENTRANCE	3470	43
ZZYZX Rd	R129.992	NB	EXIT	3290	41
ZZYZX Rd	R130.064	SB	ENTRANCE	2220	28
ZZYZX Rd	R130.372	SB	EXIT	3250	41
ZZYZX Rd	R130.371	NB	ENTRANCE	3290	41
W BAKER Rd	R135.336	NB	EXIT	9940	124
W BAKER Rd	R135.360	SB	ENTRANCE	4740	59
SR 127	R136.383	NB	EXIT	3650	46
SR 127	R136.760	NB	ENTRANCE	3690	46
SR 127	R136.758	SB	EXIT	3240	41
SR 127	R136.402	SB	ENTRANCE	3240	41
E BAKER Rd	139.024	NB	ENTRANCE	9030	113
E BAKER Rd	R138.683	SB	EXIT	5400	68
HALLORAN SPRINGS Rd	149.453	NB	EXIT	1750	22
HALLORAN SPRINGS Rd	149.752	NB	ENTRANCE	1950	24
HALLORAN SPRINGS Rd	149.446	SB	ENTRANCE	2830	35
HALLORAN SPRINGS Rd	149.756	SB	EXIT	2760	35
HALLORAN SUMMIT Rd	155.362	NB	EXIT	3590	45
HALLORAN SUMMIT Rd	155.787	NB	ENTRANCE	3620	45
HALLORAN SUMMIT Rd	155.368	SB	ENTRANCE	2680	34
HALLORAN SUMMIT Rd	155.795	SB	EXIT	3720	47
CIMA Rd	162.581	NB	EXIT	2770	35
CIMA Rd	162.891	NB	ENTRANCE	3460	43
CIMA Rd	162.574	SB	ENTRANCE	2650	33
CIMA Rd	162.885	SB	EXIT	1950	24
BAILEY Rd	171.306	NB	EXIT	3050	38
BAILEY Rd	171.673	NB	ENTRANCE	3210	40
BAILEY Rd	171.304	SB	ENTRANCE	2750	34
BAILEY Rd	171.648	SB	EXIT	3244	41
TRUCK AREA	175.631	SB	ENTRANCE	8330	146
NIPTON Rd	176.254	NB	EXIT	3140	39
NIPTON Rd	176.666	NB	ENTRANCE	4240	53
NIPTON Rd	176.213	SB	ENTRANCE	4340	54
NIPTON Rd	176.682	SB	EXIT	3280	41
YATES WELLS Rd	181.170	NB	EXIT	4570	57
YATES WELLS Rd	181.637	NB	ENTRANCE	3630	45
YATES WELLS Rd	181.174	SB	ENTRANCE	3350	42
YATES WELLS Rd	181.613	SB	EXIT	4300	54
TOTAL				157541	1968

* SRRA = STATE ROADSIDE REST AREA

FOG SEAL

ROUTE	FROM (PM)	TO (PM)	SEGMENT LENGTH (MI)	SOUTHBOUND WIDTHS (LF)		NORTHBOUND WIDTHS (LF)		AREA TO FOG SEAL (SQYD)	FOG SEAL (TONS)
				OUTSIDE SHOULDER	INSIDE SHOULDER	INSIDE SHOULDER	OUTSIDE SHOULDER		
15	124.00	137.30	13.30	10	5	5	10	234080	88
15	137.30	156.30	19.00	10	12	12	8	490454	184
15	156.30	169.70	13.40	10	5	5	10	235840	88
40	50.90	73.10	22.20	8	5	5	8	390720	130
TOTALS									490

SUMMARY OF QUANTITIES

Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: MICHAEL RISTIC

CALCULATED-DESIGNED BY: KAMAL MCHANTAF
CHECKED BY: MICHAEL RISTIC

REVISED BY
DATE REVISED

LAST REVISION 02-14-11
DATE PLOTTED => 11-FEB-2011
TIME PLOTTED => 09:04

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15,40	R124.0/186.2, R50.9/R73.1	25	34

Kamal Mchantaf 2-14-11
REGISTERED CIVIL ENGINEER DATE

2-14-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KAMAL MCHANTAF No. C051050 Exp. 9-30-11 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.

PAVEMENT QUANTITIES

ROUTE	FROM (PM)	TO (PM)	SEGMENT LENGTH (MI)	SOUTHBOUND WIDTHS (LF)			NORTHBOUND WIDTHS (LF)			0.06' TO 0.08' COLD PLANE (SQYD)	0.1'COLD PLANE (SQYD)	RHMA-O (TON)	RHMA-G (TON)	TACK COAT (TON)	RUMBLE STRIP (STA)
				OUTSIDE SHOULDER	MAINLINE	INSIDE SHOULDER	INSIDE SHOULDER	MAINLINE	OUTSIDE SHOULDER						
15	137.30	156.30	19.00		36					401280		27514		109	
15	181.80	186.20	4.40		24			24		123904		8364		34	
15	181.80	186.20	4.40	10		5	5		10		77440		5227	19	930
15	VALLEY WELLS SRRA*										27600		1800	7	0
									SUB-TOTALS	525184	105040				
									TOTALS	630224		35878	7027	169	930

* SRRA = STATE ROADSIDE REST AREA

REPLACE AC SURFACING

ROUTE	FROM (PM)	TO (PM)	REPLACE AC SURFACING (CY)
15	124.00	137.30	200
15	137.30	156.30	500
15	156.30	160.60	300
15	160.60	169.70	300
15	169.70	181.80	600
15	181.80	186.20	750
15	RAMPS		200
15	VALLEY WELLS SRRA*		150
TOTALS			3000

* SRRA = STATE ROADSIDE REST AREA

NOTE:

1. EXACT LOCATIONS OF REPLACE AC SURFACING TO BE DETERMINED BY THE ENGINEER

SUMMARY OF QUANTITIES

Q-2

REVISED BY | DATE REVISED
KAMAL MCHANTAF | MICHAEL RISTIC
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: MICHAEL RISTIC
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN

LAST REVISION 02-14-11 | DATE PLOTTED => 11-FEB-2011 | TIME PLOTTED => 09:04

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15,40	R124.0/186.2, R50.9/R73.1	26	34

REGISTERED ELECTRICAL ENGINEER 2-14-11 DATE

2-14-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER FERDINAND DE LA CRUZ No. E17215 Exp. 6-30-12 ELECTRICAL STATE OF CALIFORNIA

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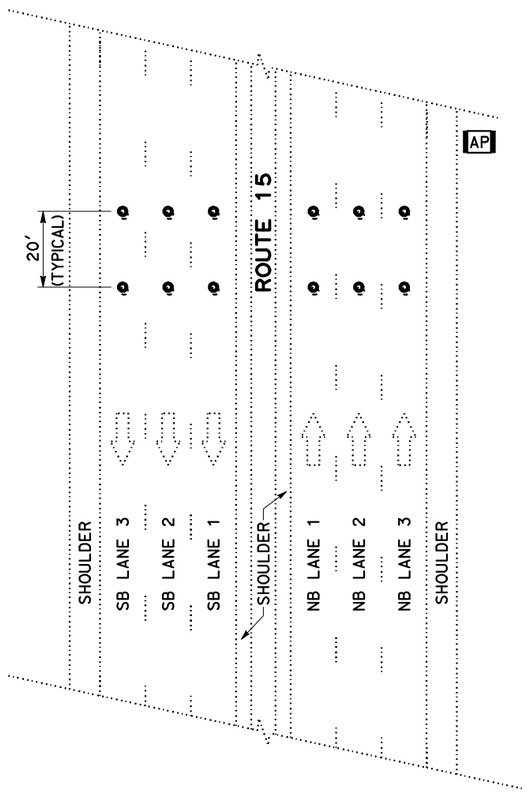
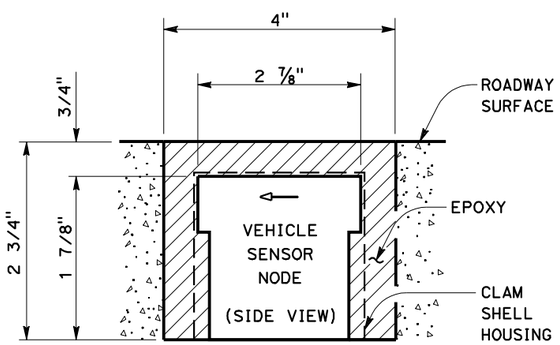


TYPICAL LAYOUT LOCATIONS (1) - (10)

SEE TABLE ON THIS SHEET FOR NUMBER OF LANES



DETAIL A

VSN INSTALLED IN ROADWAY

GENERAL NOTES: (THIS SHEET ONLY)

1. POSTMILE LOCATIONS ARE APPROXIMATE. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL VEHICLE SENSOR NODES.
2. RC EXISTING VSN AS SHOWN AS PER MANUFACTURER'S INSTRUCTION.

VEHICLE SENSOR NODE INSTALLATION PROCEDURE:

1. PRIOR TO VSN INSTALLATION, RECORD SENSOR'S IDENTIFICATION, LANE NUMBER AND LOCATION IN LANE.
2. USE A HEAT-GUN OR HOT COMPRESSED AIR TO DRY THE INSIDE OF THE CORED HOLE, AS NO MOISTURE IS PERMITTED ON THESE SURFACES.
3. FILL THE HOLE ABOUT 1/4 FULL OF SENSOR EPOXY ADHESIVE, (POLYUREA SEALANT).
4. INSTALL A VSN SENSOR, AND A 'CLAM SHELL' HOUSING, IN THE CORED HOLE AND DO NOT ALLOW THE SENSOR TO BE TILTED.
5. ORIENTATE THE SENSOR WITH THE ARROW POINTING IN THE DIRECTION OF TRAFFIC. IF NEEDED, THE EPOXY SHOULD STILL HAVE SOME WORKING TIME SO THAT THE SENSOR CAN BE ROTATED TO THE CORRECT POSITION.
6. PUSH THE SENSOR DOWN FLAT ON THE BOTTOM OF THE HOLE TO INSURE A BOND UNDERNEATH THE SENSOR WITH THE EPOXY ADHESIVE.
7. FILL THE HOLE WITH THE REMAINING EPOXY SUFFICIENT TO COVER THE SENSOR AS SHOWN IN 'DETAIL A'. THE FINAL EPOXY POUR SHALL BE LEVEL WITH THE SURFACE OF THE ROAD.
8. DO NOT LET THE EPOXY SIT FOR MORE THAN 30 SECONDS BETWEEN THE FIRST AND SECOND APPLICATIONS.
9. THE INSTALLATION PAVEMENT TEMPERATURE SHALL BE GREATER THAN +32° FAHRENHEIT.
10. DEPENDING ON AMBIENT TEMPERATURE AND HUMIDITY, ADHESIVE DRYING TIME WILL VARY FROM 5 TO 15 MINUTES. VERIFY HARDNESS OF EPOXY BEFORE REOPENING THE LANE TO TRAFFIC.
11. RECORD THE DISTANCES BETWEEN EACH VSN SENSOR PAIR WITHIN A LANE.
12. RECORD THE VSN SENSOR'S IDENTIFICATION, LANE NUMBER AND LOCATION IN LANE.

ABBREVIATION:

VSN VEHICLE SENSOR NODE

LEGEND:

- EXISTING VSN
- VSN - SEE DETAIL 'A'
- AP EXISTING POLE MOUNTED ACCESS POINT

LOCATIONS OF VEHICLE SENSOR NODES

LOCATION	COUNTY	ROUTE	POSTMILE	APPROXIMATE LOCATION	DIRECTION AND NUMBER OF LANES	QUANTITY OF VSN's TO BE REPLACED
(1)	SBd	15	138.3	SOUTH OF EAST BAKER OC	SB, LANE 3	6
(2)			146.0	NORTH OF EAST BAKER OC	SB, LANE 3	6
(3)			143.5	NORTH OF EAST BAKER OC	SB, LANE 3	6
(4)			146.3	SOUTH OF HALLORAN SPRINGS	SB, LANE 3	6
(5)			148.7	SOUTH OF HALLORAN SPRINGS	SB, LANE 3	6
(6)			151.4	NORTH OF HALLORAN SPRINGS	SB, LANE 3	6
(7)			153.6	SOUTH OF HALLORAN SUMMIT	SB, LANE 3	6
(8)			156.4	NORTH OF HALLORAN SUMMIT	SB, LANE 2	4
(9)			183.4	SOUTH OF STATE LINE	NB & SB, LANE 2	8
(10)			185.9	SOUTH OF STATE LINE	NB & SB, LANE 2	8
					TOTAL	62

VEHICLE SENSOR NODE REPLACEMENT

NO SCALE

E-1

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ELECTRICAL DESIGN B

FUNCTIONAL SUPERVISOR: FERDINAND DE LA CRUZ
CALCULATED-DESIGNED BY: SANDY TUNG
CHECKED BY: FERDINAND DE LA CRUZ
REVISED BY: ST ST
DATE REVISED: 04/10 06/10

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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	15,40	R124.0/186.2, R50.9/R73.1	27	34

REGISTERED ELECTRICAL ENGINEER

October 5, 2007
PLANS APPROVAL DATE

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

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

To accompany plans dated February, 14 2011

ELECTROLIERS

STANDARD TYPES
15, 15D
15 STRUCTURE
21, 21D STRUCTURE
30
31
32
35
36-20A

High mast light pole

Double Arm lighting standard

Existing electrolier

Electrolier foundation (Future installation)

NOTES:

1. 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.
2. Luminaires shall be the cutoff type, ANSI Type Ⅲ medium cutoff lighting distribution, unless otherwise specified.
3. 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

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	SBd	15,40	R124.0/186.2, R50.9/R73.1	28	34

REGISTERED ELECTRICAL ENGINEER

October 5, 2007
PLANS APPROVAL DATE

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

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

To accompany plans dated February, 14 2011

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 (RSP ES-9A C)
R	r	Conduit riser in/on structure or service pole

SERVICE EQUIPMENT

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

POLE-MOUNTED SERVICE DESIGNATION

Type of installation

TYPE H SERVICE - 28'-10" ← Pole height above grade

ILLUMINATED OVERHEAD SIGN

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

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
PV	PV	Modifications of basic symbols: "L" indicates all non-arrow sections louvered "LG" indicates louvered 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
R	Y	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

SIGNAL EQUIPMENT Cont

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

NOTES:

1. All signal sections shall be 12" unless shown otherwise.
2. Signal heads shall be provided with backplates unless shown otherwise.
3. 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

7-10-07

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	15,40	R124.0/186.2, R50.9/R73.1	29	34

REGISTERED ELECTRICAL ENGINEER

October 5, 2007
PLANS APPROVAL DATE

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

To accompany plans dated February, 14 2011

EQUIPMENT IDENTIFICATION

ILLUMINATED SIGN IDENTIFICATION NUMBER:

Sign No. 12345

10 ISL SCI 1.0

- Sign number - Place on post or structure
- Transformer rating (kVA)
- Lighting control type
- Number and type of fixtures

Do NOT place on standard or structure

ELECTROLIER OR EQUIPMENT IDENTIFICATION NUMBER:

12345 - 15'-0"

- Mast arm length, if shown. Do not place on standard or structure.
- Equipment number - Place on standard or structure. Existing equipment numbers are shown in parenthesis

CONDUIT AND CONDUCTOR IDENTIFICATION:

1½"C, 2#10, 15#14, 2 DLC

- Number and size of conductors and cables
- Size of conduit in inches

ø1, ø2, ø2P, etc.	Traffic phase identification for signal faces, detectors and phase diagrams
1 2 3	Project note numbers
A B C	Equipment description, installation or item numbers
1 2 3	Conduit run numbers

SIGNAL AND LIGHTING STANDARD (TYPICAL DESIGNATION):

19A - 3 - 100

- Wind velocity = 100 mph
- Case 3 arm loading
- Standard type
- Standard Plan sheet number
- Detail number or letter

MISCELLANEOUS EQUIPMENT

PROPOSED	EXISTING	
CMS	cms	Changeable message sign
		Closed circuit television camera
		Highway advisory radio pole and antenna
EMS	ems	Extinguishable message sign
M V	m v	Detection device M = Microwave sensor V = Video image sensor

WIRING DIAGRAM LEGEND

P	Pole
CB	Circuit breaker
A	Ampere
V	Volt
M	Metered
UM	Unmetered
NB	Neutral bus
GB	Ground bus
G	Equipment grounding conductor
N	Grounded conductor (Neutral)

- External conductor
- Conductor or bus
- Tie point
- Contactor coil
- Contactor, Contact NO
- Terminal blocks
- Contactor, Contact NC
- Enclosure bond
- Grounding electrode
- Circuit breaker
- Receptacle

PULL BOXES

PROPOSED	EXISTING	
		Pull box-No. 5 unless otherwise indicated or noted.
3	9A(21)	Pull box-Additional designations or descriptions

3 = No. 3½ pull box
5 = No. 5 pull box
6 = No. 6 pull box
7 = No. 7 (Ceiling pull box)
8 = No. 8 (Pendant soffit pull box)
9 = No. 9 pull box
9A = No. 9A pull box

(C) = Communications pull box
(E) = Pull box with extension
(S) = Sprinkler control pull box
(21) = Anchor bolts and conduit for future installation of Type 21 Standard
(T) = Traffic pull box

VEHICLE DETECTORS

5 J 9 U

- U = Upper
- L = Lower
- Slot number in input file
- Input file (I or J)
- Phase

PROPOSED	EXISTING	
		Type A detector loop. Outline of sawcut shown.
		Type B detector loop. Outline of sawcut shown.
		Type C detector loop. Outline of sawcut shown.
		Type D detector loop. Outline of sawcut shown.
		Type E detector loop. Outline of sawcut shown.
		Type Q detector loop. Outline of sawcut shown.
		Magnetic detector
DH	dh	Detector handhole
		Microwave or video detection zone

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

7-10-07

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	15,40	R124.0/186.2, R50.9/R73.1	30	34

REGISTERED ELECTRICAL ENGINEER

October 5, 2007
PLANS APPROVAL DATE

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

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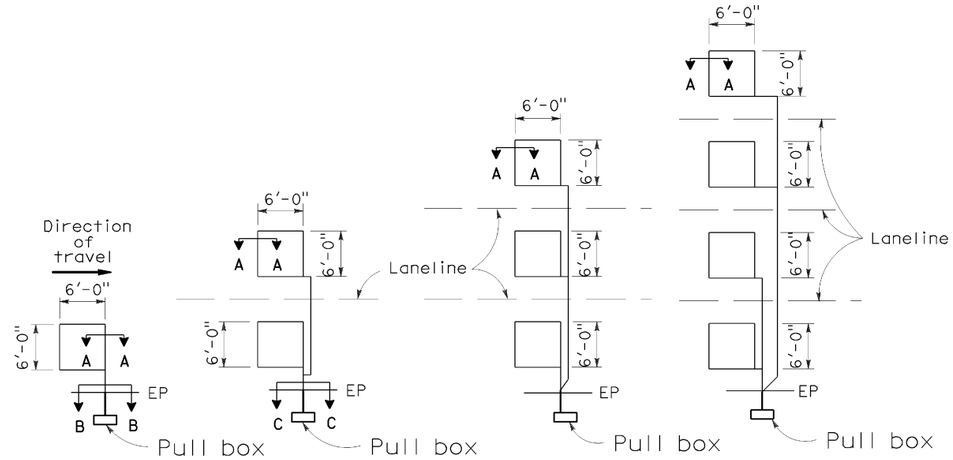
To accompany plans dated February, 14 2011

2006 REVISED STANDARD PLAN RSP ES-5A

LOOP INSTALLATION PROCEDURE

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

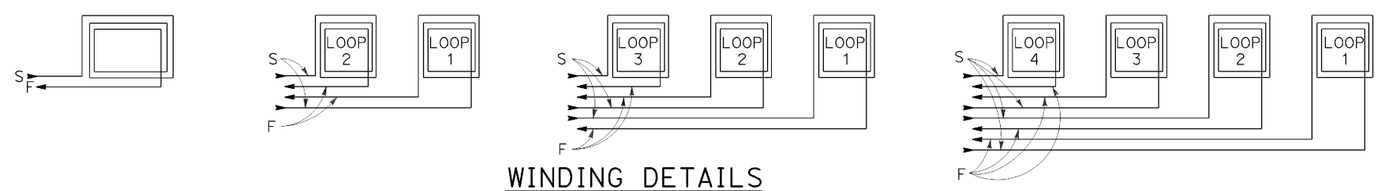


TYPE 1A INSTALLATION | TYPE 2A INSTALLATION | TYPE 3A INSTALLATION | TYPE 4A INSTALLATION

SAWCUT DETAILS

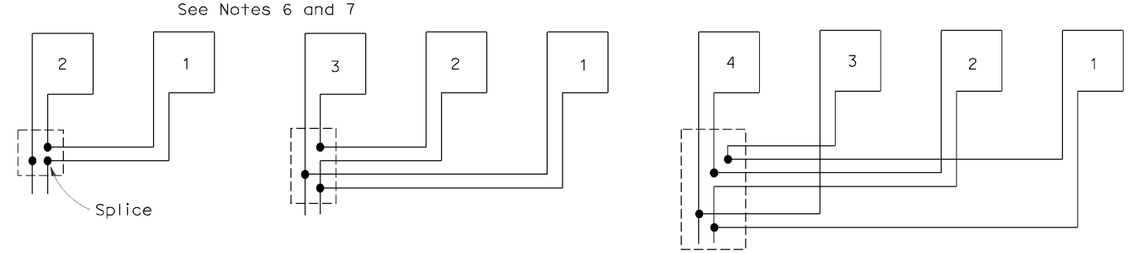
(Type A loop detector configurations illustrated)

1. 1A thru 4A = 1 Type A loop configuration in each lane.
2. 1B thru 4B = 1 Type B loop configuration in each lane.
3. 1C = 1 Type C loop configuration entering lanes as required.
4. 1D thru 4D = 1 Type D loop configuration in each lane.
5. 1E thru 4E = 1 Type E loop configuration in each lane.
6. 1Q thru 4Q = 1 Type Q loop configuration in each lane.
   (Use Type A, B, C, D, E or Q loop detector configurations only when specified or shown on plans)



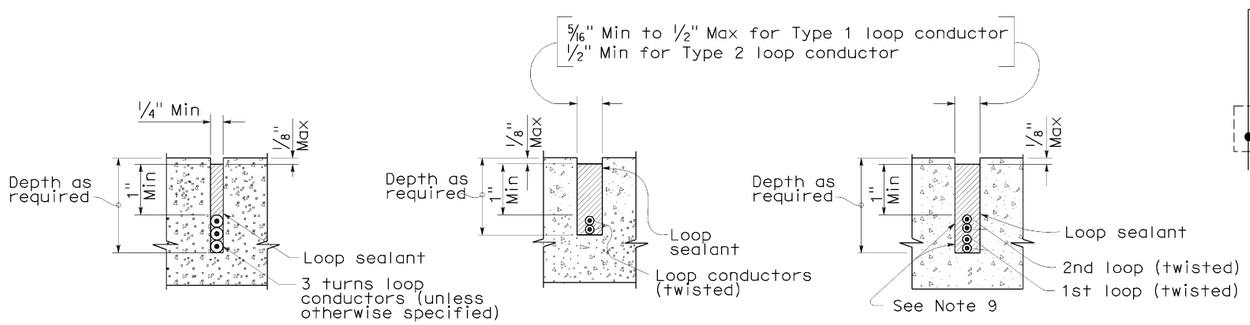
WINDING DETAILS

See Notes 6 and 7



TYPICAL LOOP CONNECTIONS

(Dashed lines represent the pull box)



SECTION A-A | SECTION B-B | SECTION C-C

SLOT DETAILS - TYPE 1 AND TYPE 2 LOOP CONDUCTOR

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (DETECTORS)

NO SCALE

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

REVISED STANDARD PLAN RSP ES-5A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	15,40	R124.0/186.2, R50.9/R73.1	31	34

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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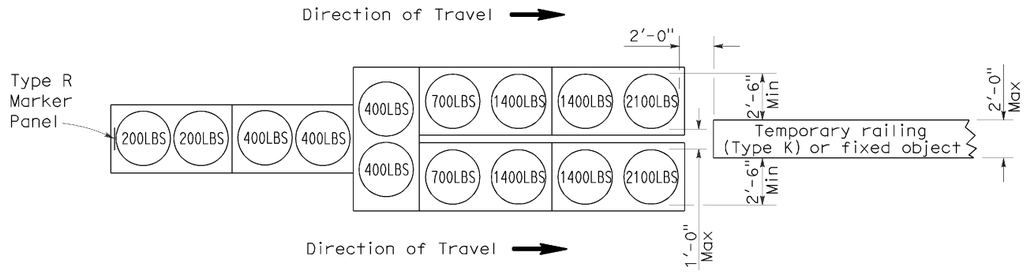
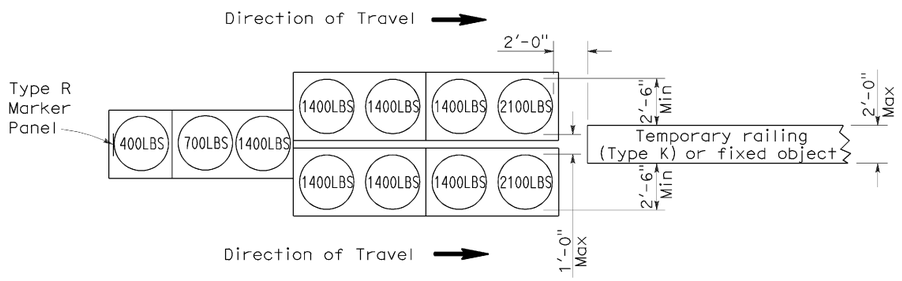
To accompany plans dated February, 14 2011



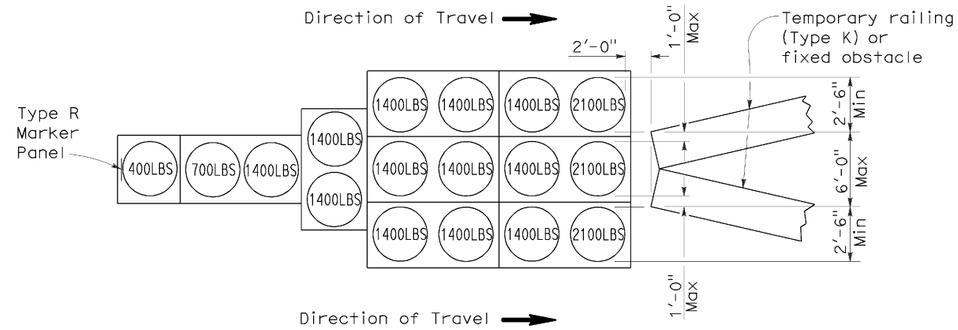
ARRAY 'TU14'

Approach speed 45 mph or more



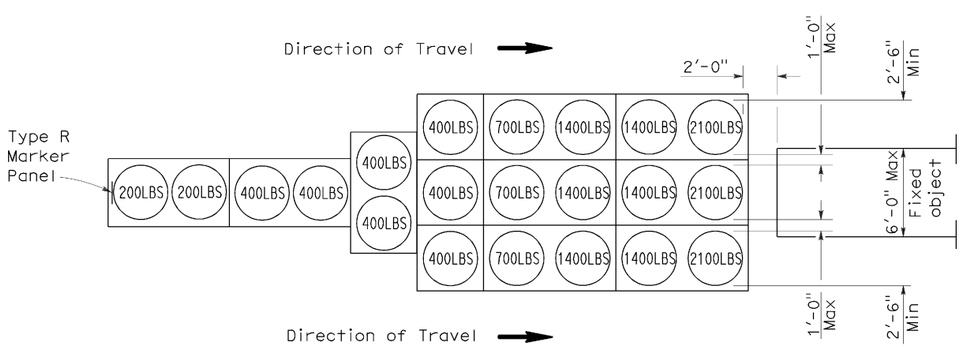
ARRAY 'TU11'

Approach speed less than 45 mph



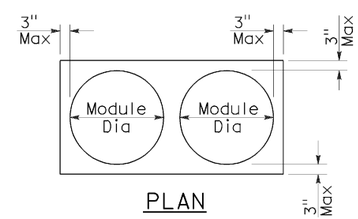
ARRAY 'TU17'

Approach speed less than 45 mph

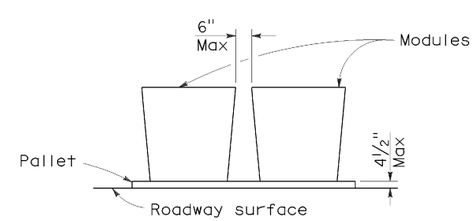


ARRAY 'TU21'

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
08	SBd	15,40	R124.0/186.2, R50.9/R73.1	32	34

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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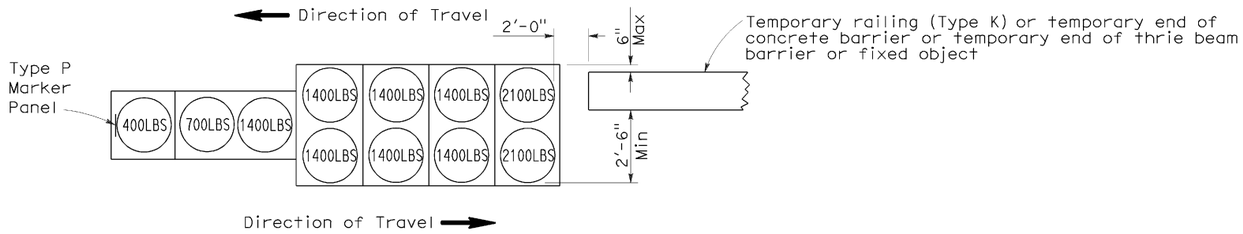
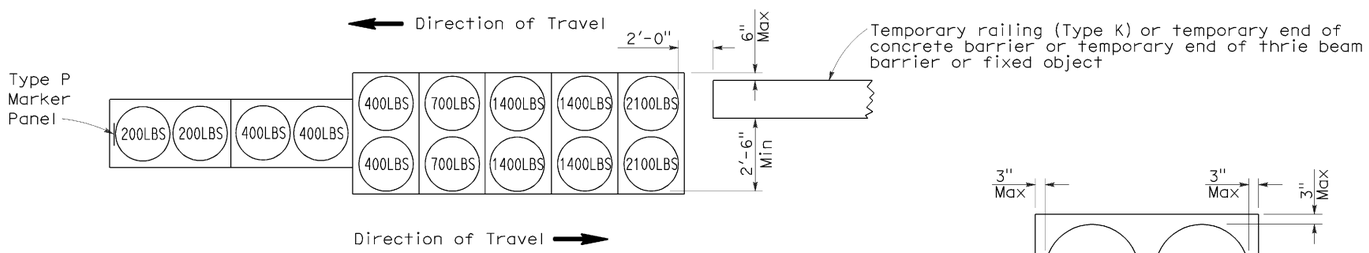
To accompany plans dated February, 14 2011



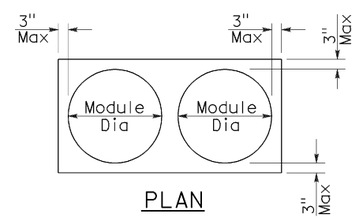
ARRAY 'TB11'

Approach speed less than 45 mph

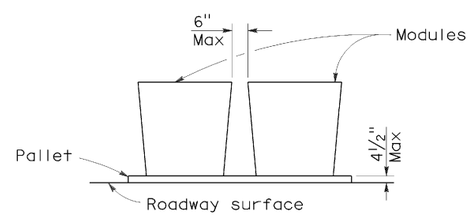


ARRAY 'TB14'

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
08	SBd	15,40	R124.0/186.2; R50.9/R73.1	33	34

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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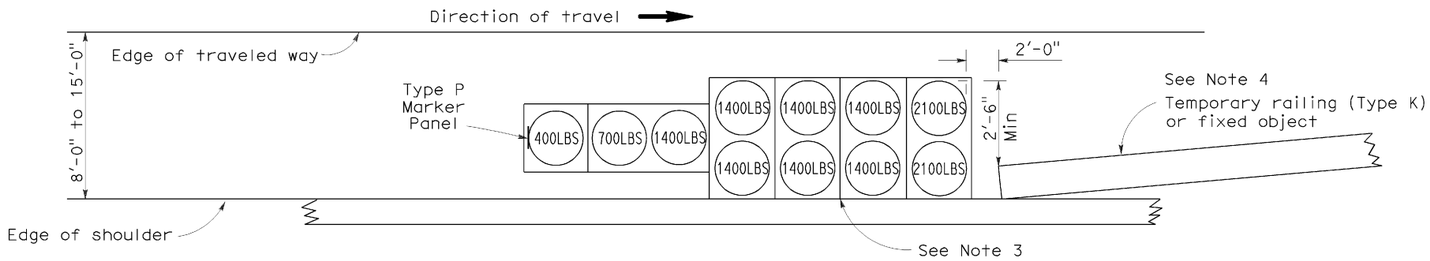
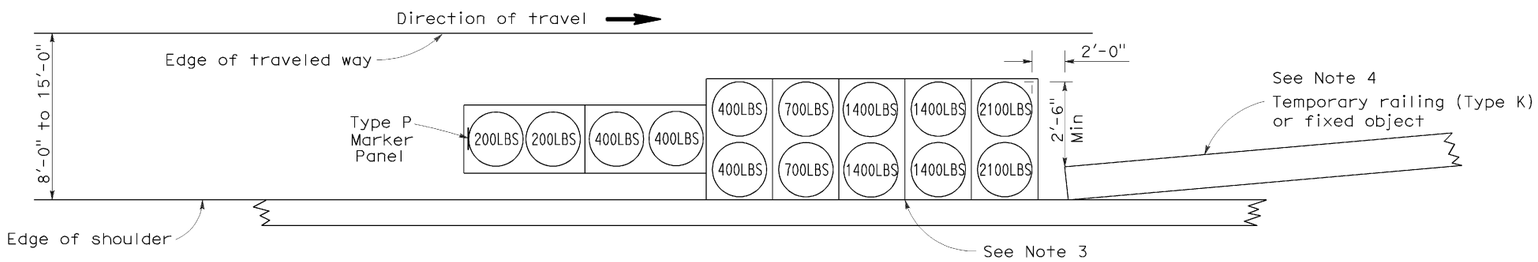
To accompany plans dated February, 14 2011



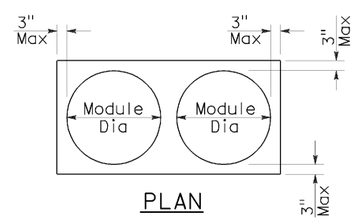
ARRAY 'TS11'

Approach speed less than 45 mph
See Note 9

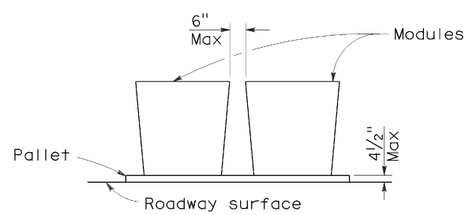


ARRAY 'TS14'

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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	15,40	R124.0/186.2, R50.9/R73.1	34	34

Greg W. Edwards
REGISTERED CIVIL ENGINEER

November 17, 2006
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Greg W. Edwards — No. C36386 — Exp. 6-30-08 — CIVIL — STATE OF CALIFORNIA

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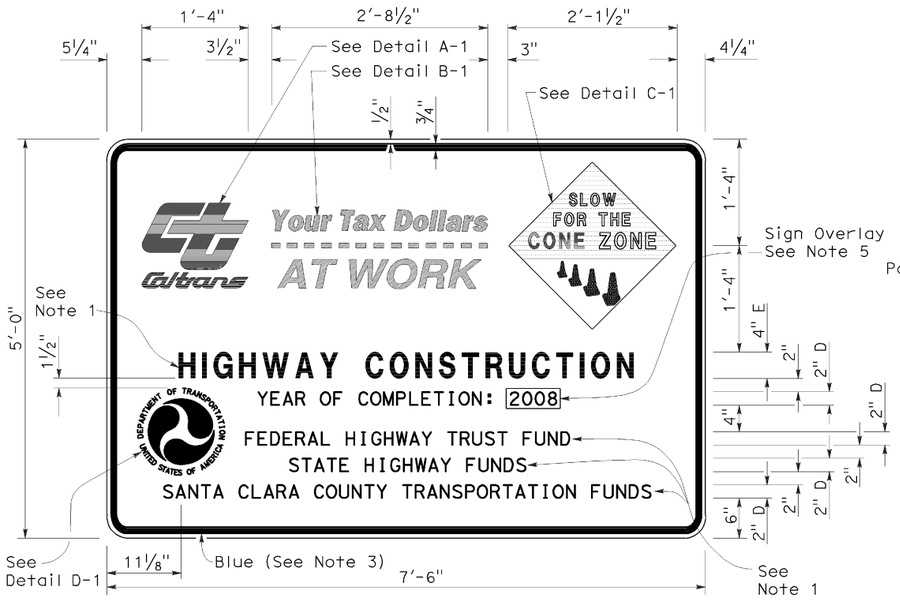
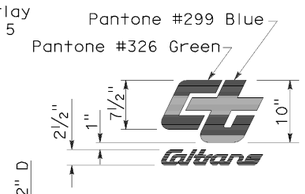
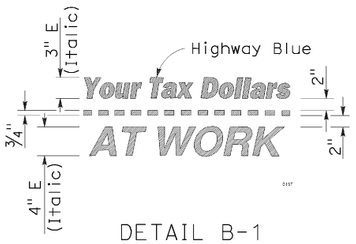
To accompany plans dated February, 14 2011



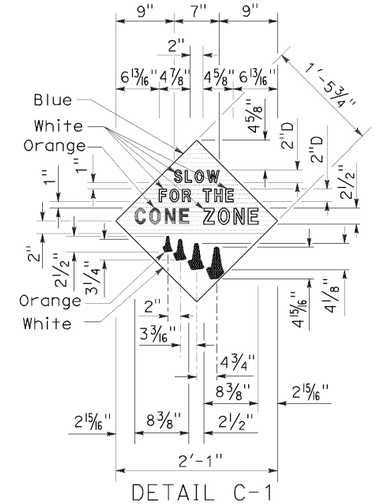
TYPE 1



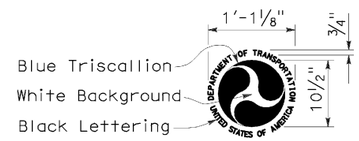
DETAIL A-1



DETAIL B-1
(See Note 3)



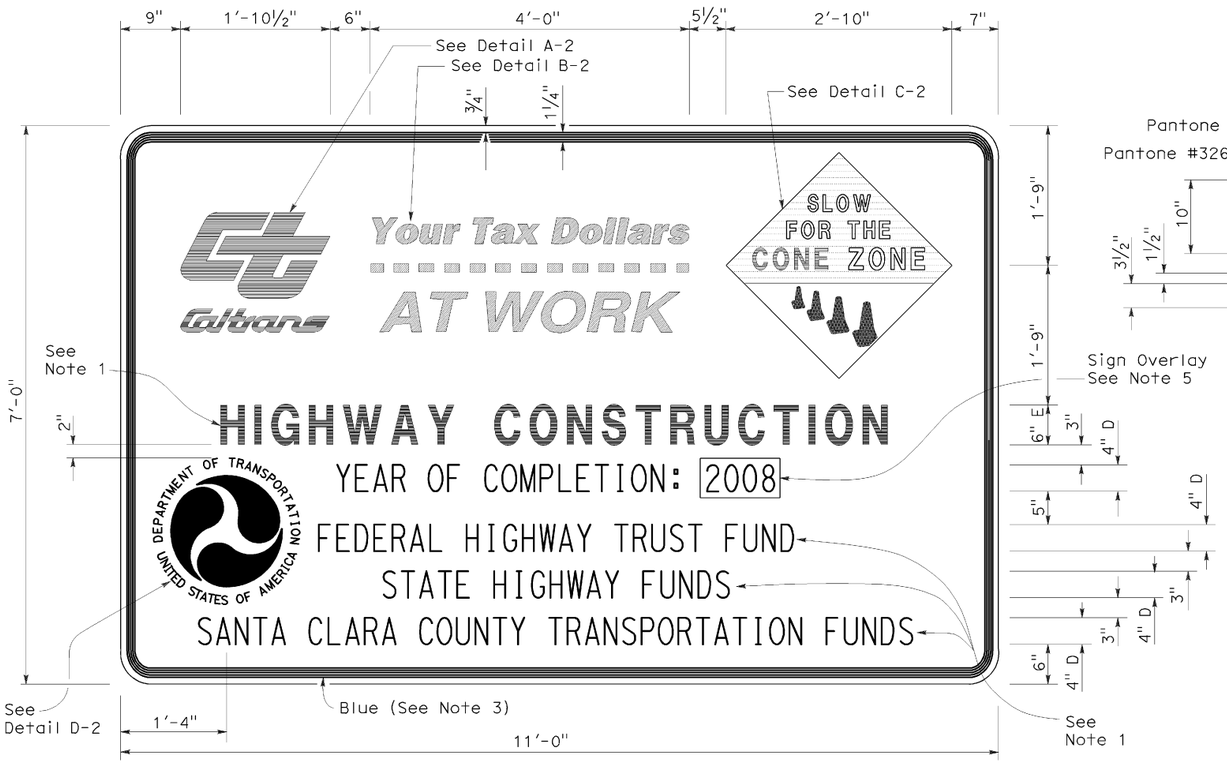
DETAIL C-1
(See Note 4)



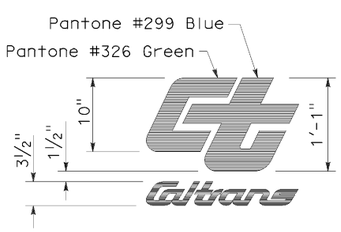
DETAIL D-1
(See Note 6)

NOTES:

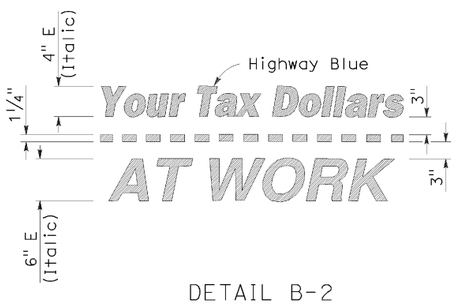
1. The sign messages shown for type of project and fund types are examples only. See the Special Provisions for the applicable type of project and fund type messages to be used.
2. Except as otherwise shown, the legend of sign shall be black on a white background (non-reflective).
3. The border of the signs and details "B-1" and "B-2" shall be blue (non-reflective).
4. The diamond in details "C-1" and "C-2" shall be blue for the background of message, " SLOW FOR THE CONE ZONE", and white background for the orange cones. The color and type of font for the "SLOW FOR THE CONE ZONE" message shall be: "SLOW" white D; "FOR THE" white D; "CONE" orange Arial font; "ZONE" white Arial font.
5. Year of completion of project construction shown on the overlay is an example only. See the Special Provisions.
6. Use when the Project involves Federal Highway Trust Fund.



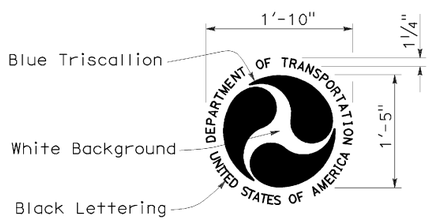
TYPE 2



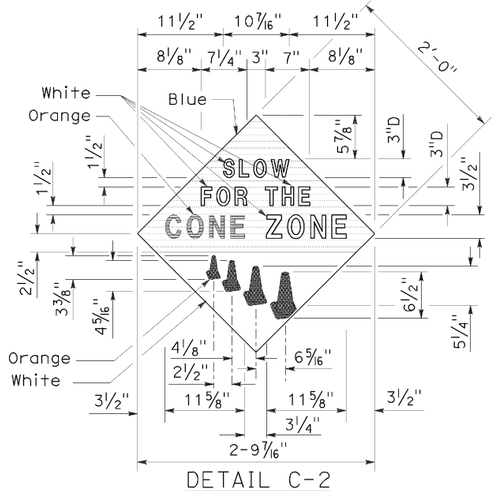
DETAIL A-2



DETAIL B-2
(See Note 3)



DETAIL D-2
(See Note 6)



DETAIL C-2
(See Note 4)

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION PROJECT FUNDING IDENTIFICATION SIGNS

NO SCALE

RSP T7 DATED NOVEMBER 17, 2006 SUPERSEDES STANDARD PLAN T7
DATED MAY 1, 2006 - PAGE 217 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T7

2006 REVISED STANDARD PLAN RSP T7

9-7-06