Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5,15,805	Var	1	37

INDEX OF PLANS

SHEET NO.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	CONSTRUCTION AREA SIGNS
3-14	TRAFFIC HANDLING PLAN
15-16	PAVEMENT DELINEATION DETAILS AND QUANTITIES
17-21	REVISED AND NEW STANDARD PLANS
	STRUCTURE PLANS
22-31	GENERAL PLAN
32-33	MISCELLANEOUS DETAILS
34-36	JOINT SEAL
37	STRUCTURE APPROACH TYPE R(300)

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

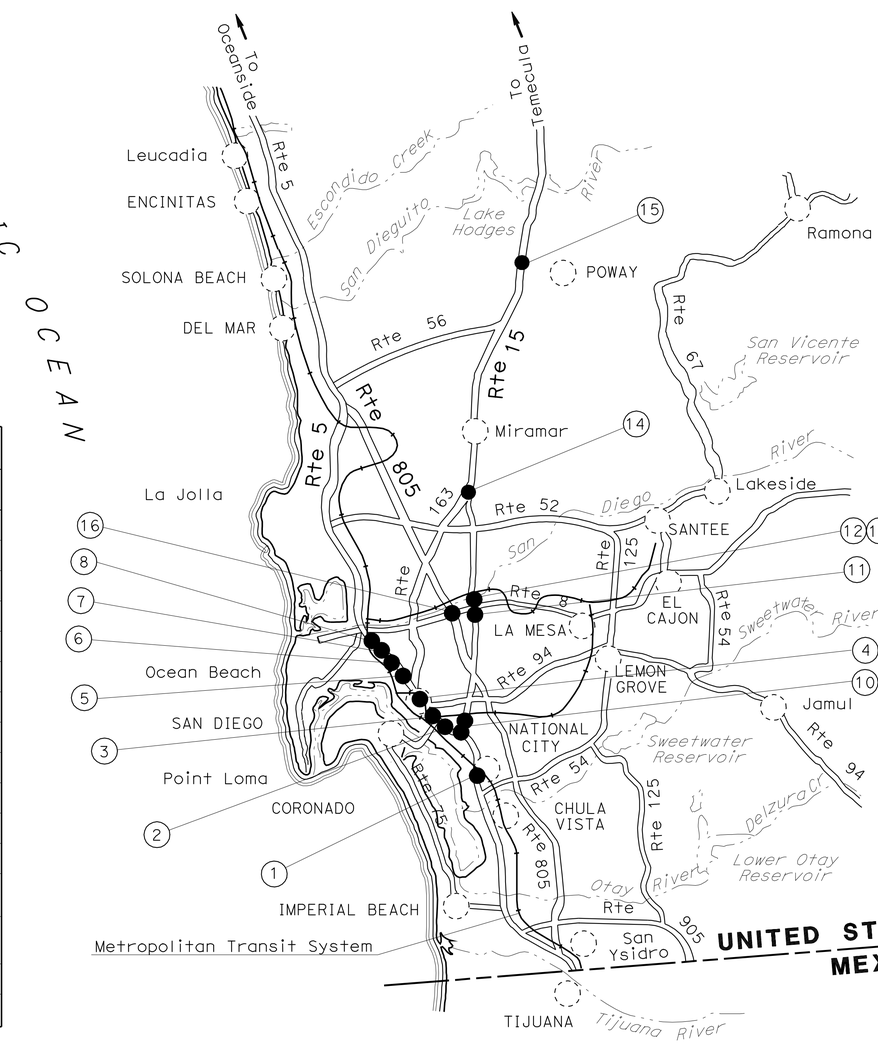
STATE OF CALIFORNIA

DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON STATE HIGHWAY

IN SAN DIEGO COUNTY AT VARIOUS LOCATIONS

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



NO SCALE

SAN DIEGO COUNTY

LOCATION MAP

WORK LOCATIONS				
Loc	Rte	PM	BRIDGE No.	BRIDGE NAME
1	5	R11.66	57 0434	MAIN STREET UC
2	5	R13.12	57 0440	30TH STREET POC
3	5	R14.89	57 0433	MARKET STREET OC
4	5	R15.41	57 0428	PERSHING DRIVE UC
5	5	R16.47	57 0407	THIRD AVENUE OC
6	5	R16.59	57 0202	FIRST AVENUE OC
7	5	R17.77	57 0482L	SASSAFRAS STREET UC
8	5	R18.28	57 0546R	WASHINGTON STREET UC
9	15	R0.12	57 0732F	S15-S5 CONNECTOR OC
10	15	0.47	57 0495S	SOUTH BRANCH CHOLLAS CREEK
11	15	R6.03	57 0883	CAMINO DEL RIO SOUTH UC
12	15	R6.06	57 0884F	S15-E8 CONNECTOR OC
13	15	R6.12	57 0885K	CAMINO DEL RIO SOUTH OFF-RAMP OC
14	15	M11.97	57 0961F	S15-S163 CONNECTOR SEPARATION
15	15	M22.94	57-1118R	BERNARDO CENTER DRIVE UC
16	805	17.59	57-0718F	S805-E8 CONNECTOR OC

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

Hamed S. Baha 12-06-11
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

January 30, 2012
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — HAMED S. BAHA No. 74499 Exp. 12-31-13 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.	11-2M3204
PROJECT ID	1100020270

PROJECT MANAGER: ALBERTO GAYON
DESIGN ENGINEER: HAMED S. BAHA

LAST REVISION 12-09-11
DATE PLOTTED => 31-JAN-2012
TIME PLOTTED => 14:33

BORDER LAST REVISED 7/2/2010 | CALTRANS WEB SITE IS: HTTP//WWW.DOT.CA.GOV/ | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => s127400 DGN FILE => 1100020270ab001.dgn | UNIT 2773 | PROJECT NUMBER & PHASE 11000202701

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,15,805	Var	2	37

12-06-11
REGISTERED CIVIL ENGINEER DATE

01-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
SHAHIN T. ADIBI
No. 54839
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

XX = CONSTRUCTION AREA SIGN

NOTES:

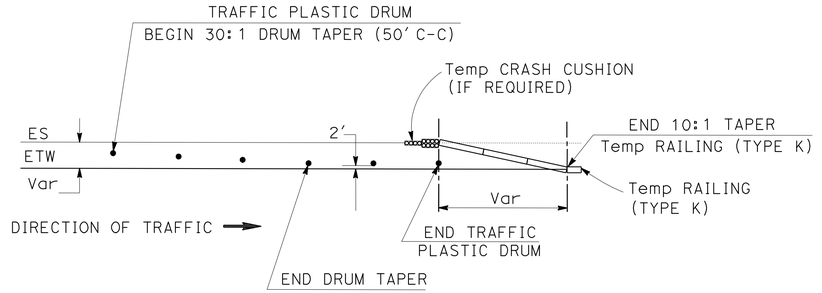
1. EXACT LOCATION OF CONSTRUCTION AREA SIGNS WILL BE DETERMINED BY THE ENGINEER.
2. FEDERAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SIGN CODES ARE SHOWN UNLESS DESIGNATED BY (CA), INDICATING CALIFORNIA MUTCD.
3. SEE TRAFFIC HANDLING PLANS FOR ADDITIONAL CONSTRUCTION AREA SIGNS.
4. EXISTING UTILITIES ARE NOT SHOWN ON THESE PLAN SHEETS. THE CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING UTILITIES AND ADJUST THE FIELD LOCATION OF SIGN POSTS IN CONSULTATION WITH THE ENGINEER.

CONSTRUCTION AREA SIGNS

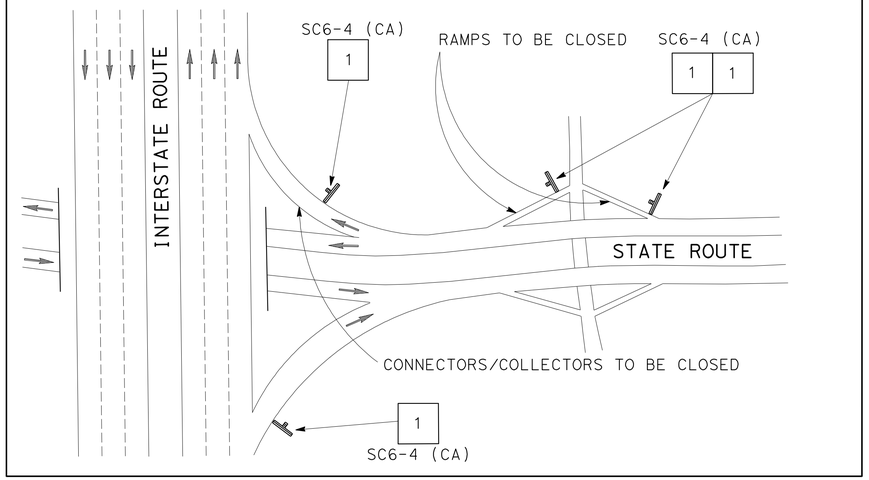
SIGN No.	CODE	PANEL SIZE (In)	No. OF POST AND SIZE (In)	No. OF SIGNS
1	SC6-4 (CA)	48 X 60	PORTABLE	53
2	C23 (CA)	48 X 48	1-4 X 6 (S)	30
3	C14 (CA)	48 X 24	1-4 X 4 (S)	30

(S) DENOTES STATIONARY MOUNTED SIGN

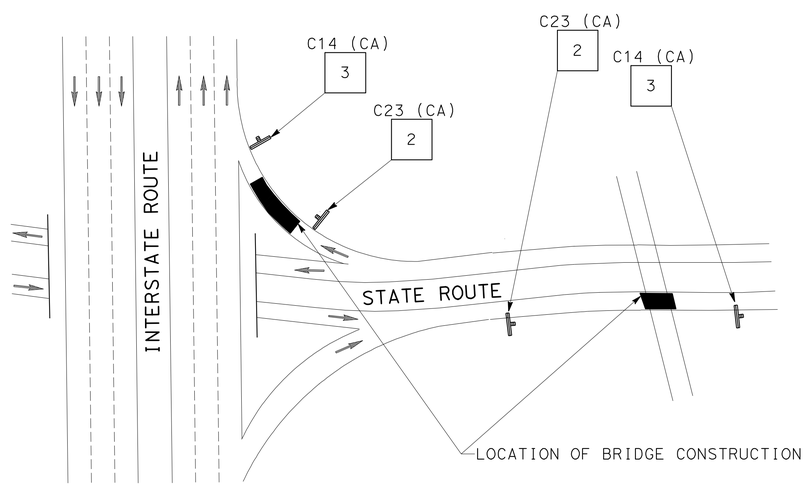
TYPICAL PLACEMENT OF TRAFFIC PLASTIC DRUM



TYPICAL- PLACEMENT OF SC6-4 (CA) CONSTRUCTION AREA SIGNS



TYPICAL- PLACEMENT OF C23 (CA) AND C14 (CA) CONSTRUCTION AREA SIGNS



APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

NO SCALE

CONSTRUCTION AREA SIGNS

CS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
TRAFFIC DESIGN
FUNCTIONAL SUPERVISOR: CAMILLE ABOUFADEL
CALCULATED-DESIGNED BY: MARY BETH HAYES
CHECKED BY: SHAHIN ADIBI
REVISED BY
DATE REVISED

LAST REVISION | DATE PLOTTED => 31-JAN-2012
12-09-11 | TIME PLOTTED => 14:33

BORDER LAST REVISED 7/2/2010
USERNAME => s127400
DGN FILE => 11000202701a001.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 2828
PROJECT NUMBER & PHASE 1100020271

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,15,805	Var	3	37

12-06-11
REGISTERED CIVIL ENGINEER DATE

01-30-12
PLANS APPROVAL DATE

SHAHIN T. ADIBI No. 54839 Exp. 6-30-12 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

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

NOTES:

1. EXACT LOCATION OF CONSTRUCTION AREA SIGNS WILL BE DETERMINED BY THE ENGINEER.
2. FEDERAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SIGN CODES ARE SHOWN UNLESS DESIGNATED BY (CA), INDICATING CALIFORNIA MUTCD.
3. ROTATE ARROW ON SC9 (CA) PANEL TO REFLECT DIRECTION OF DETOUR.
4. SEE CONSTRUCTION AREA SIGN PLAN FOR ADDITIONAL CONSTRUCTION AREA SIGNS.
5. EXISTING UTILITIES ARE NOT SHOWN ON THESE PLAN SHEETS. THE CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING UTILITIES AND ADJUST THE FIELD LOCATION OF THE SIGN POSTS IN CONSULTATION WITH THE ENGINEER.

LEGEND

XX = CONSTRUCTION AREA SIGNS

SPCL = SPECIAL CONSTRUCTION AREA SIGN

Caps = CAPITAL LETTERING

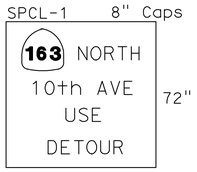
→ = DETOUR DIRECTION OF TRAVEL

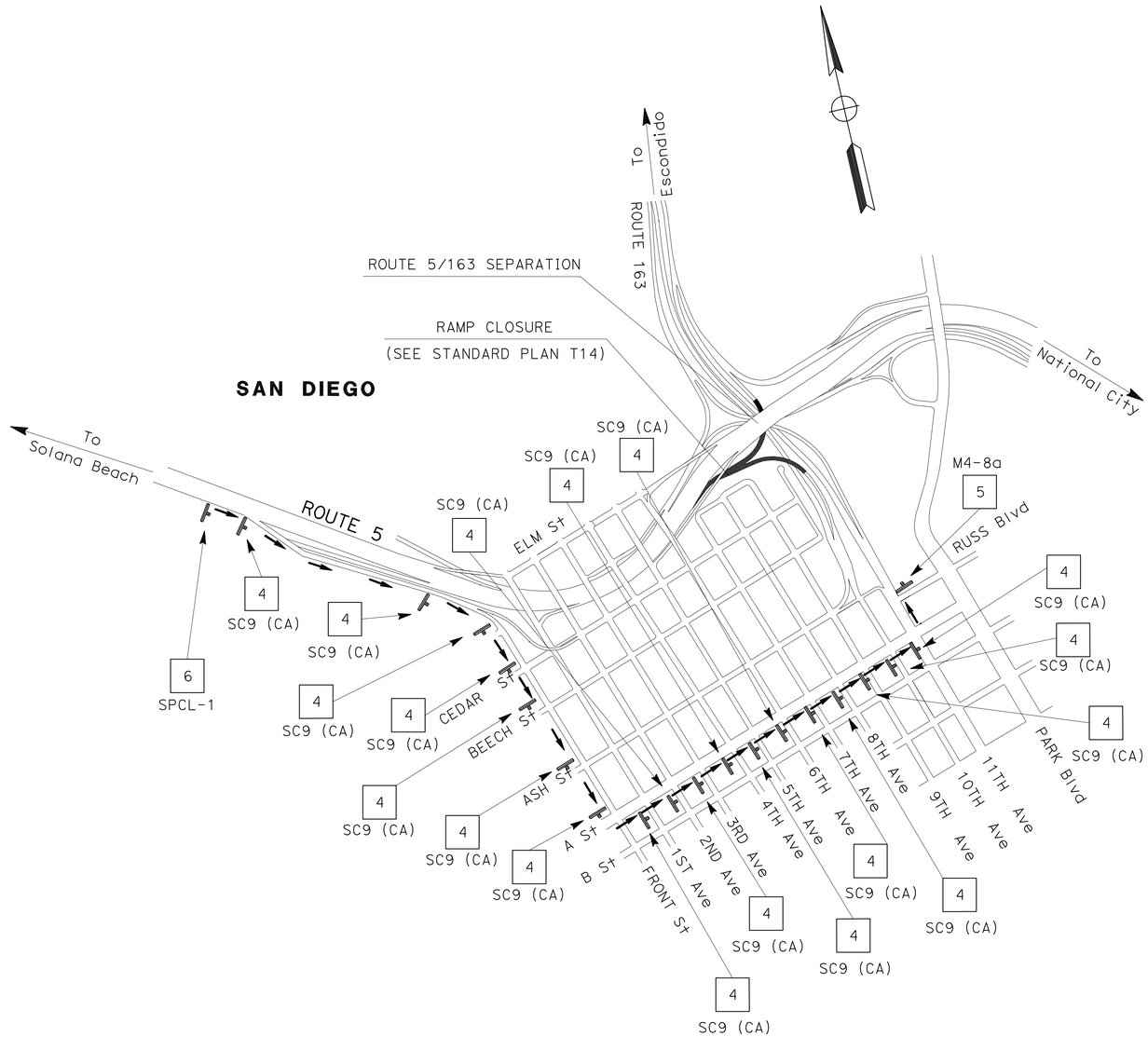
CONSTRUCTION AREA SIGNS

SIGN No.	CODE	(In)	No. OF POST AND SIZE (In)	No. OF SIGNS
4	SC9 (CA)	36 X 36	PORTABLE	109
5	M4-8a	24 X 18	PORTABLE	12
6	SPCL-1	72 X 72	PORTABLE	1
7	SPCL-2	72 X 72	PORTABLE	1
8	SPCL-3	72 X 72	PORTABLE	3
9	SPCL-4	72 X 72	PORTABLE	2
10	SPCL-5	72 X 72	PORTABLE	6
11	SPCL-6	72 X 72	PORTABLE	3
12	SPCL-7	72 X 72	PORTABLE	2

SIGN #6

SPCL-1 8" Caps





SB 5 CONNECTOR TO NB 163/10th Ave

TRAFFIC HANDLING PLAN

NO SCALE

TH-1

APPROVED FOR TRAFFIC HANDLING WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
TRAFFIC DESIGN
FUNCTIONAL SUPERVISOR: CAMILLE ABOUFADEL
CALCULATED-DESIGNED BY: MARY BETH HAYES
CHECKED BY: SHAHIN ADIBI
REVISED BY
DATE REVISED

LAST REVISION DATE PLOTTED => 31-JAN-2012
TIME PLOTTED => 14:33
01-17-12

BORDER LAST REVISED 7/2/2010
USERNAME => s127400
DGN FILE => 1100020270md001.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 2828
PROJECT NUMBER & PHASE 1100020271

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,15,805	Var	4	37

REGISTERED CIVIL ENGINEER — DATE: 12-06-11

PLANS APPROVAL DATE: 01-30-12

REGISTERED PROFESSIONAL ENGINEER — SHAHIN T. ADIBI No. 54839 Exp. 6-30-12 CIVIL — STATE OF CALIFORNIA

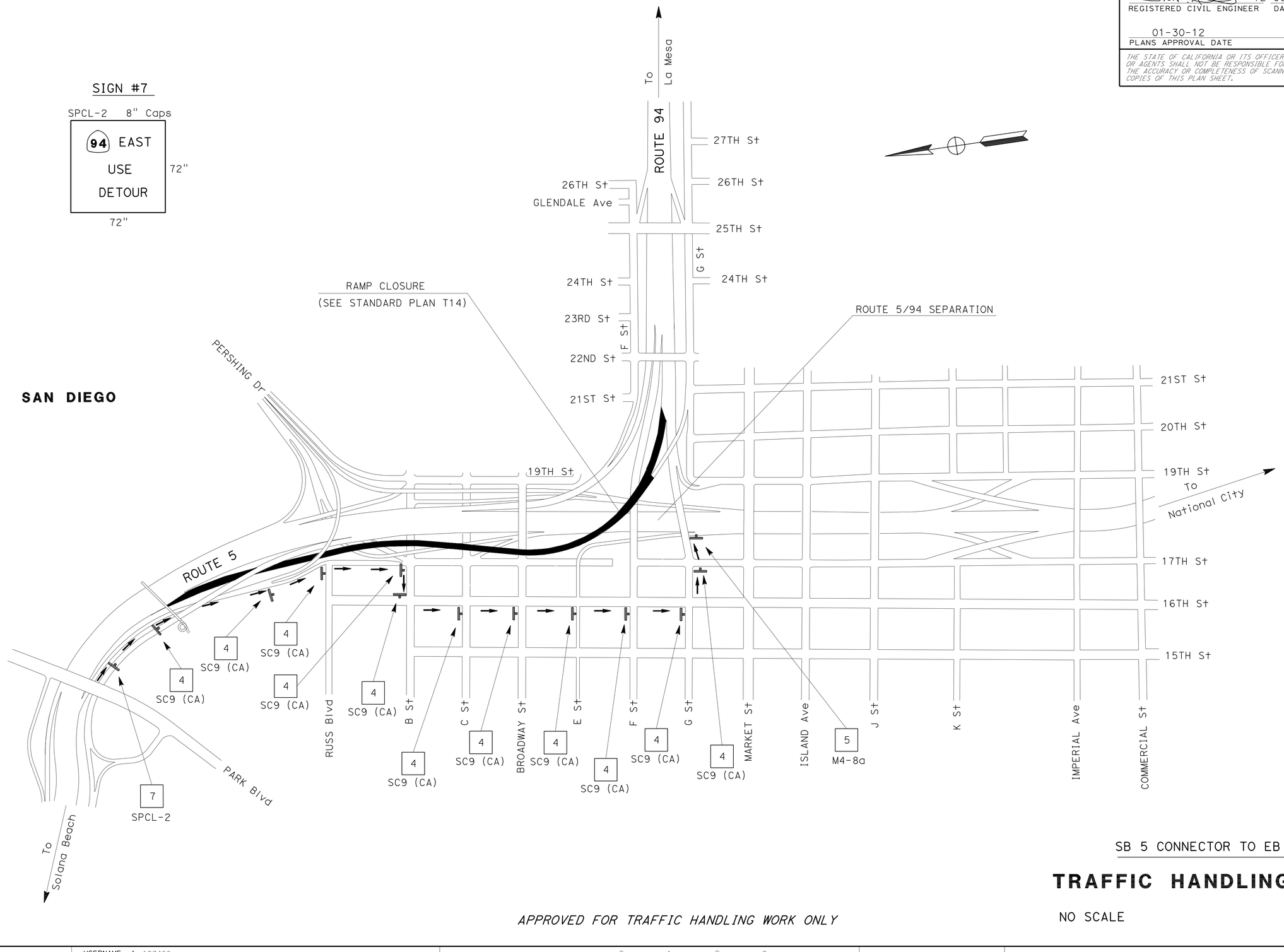
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

SIGN #7

SPCL-2 8" Caps

94 EAST
USE
DETOUR

72" × 72"



SB 5 CONNECTOR TO EB 94

TRAFFIC HANDLING PLAN

NO SCALE

TH-2

APPROVED FOR TRAFFIC HANDLING WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: CAMILLE ABOUFADEL

CALCULATED-DESIGNED BY: MARY BETH HAYES
CHECKED BY: SHAHIN ADIBI

REVISED BY | DATE REVISED

LAST REVISION DATE PLOTTED => 31-JAN-2012
TIME PLOTTED => 14:33

BORDER LAST REVISED 7/2/2010

USERNAME => s127400
DGN FILE => 1100020270md002.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 2828

PROJECT NUMBER & PHASE 1100020271

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,15,805	Var	5	37

REGISTERED CIVIL ENGINEER — 12-06-11 DATE

01-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — SHAHIN T. ADIBI — No. 54839 — Exp. 6-30-12 — CIVIL — STATE OF CALIFORNIA

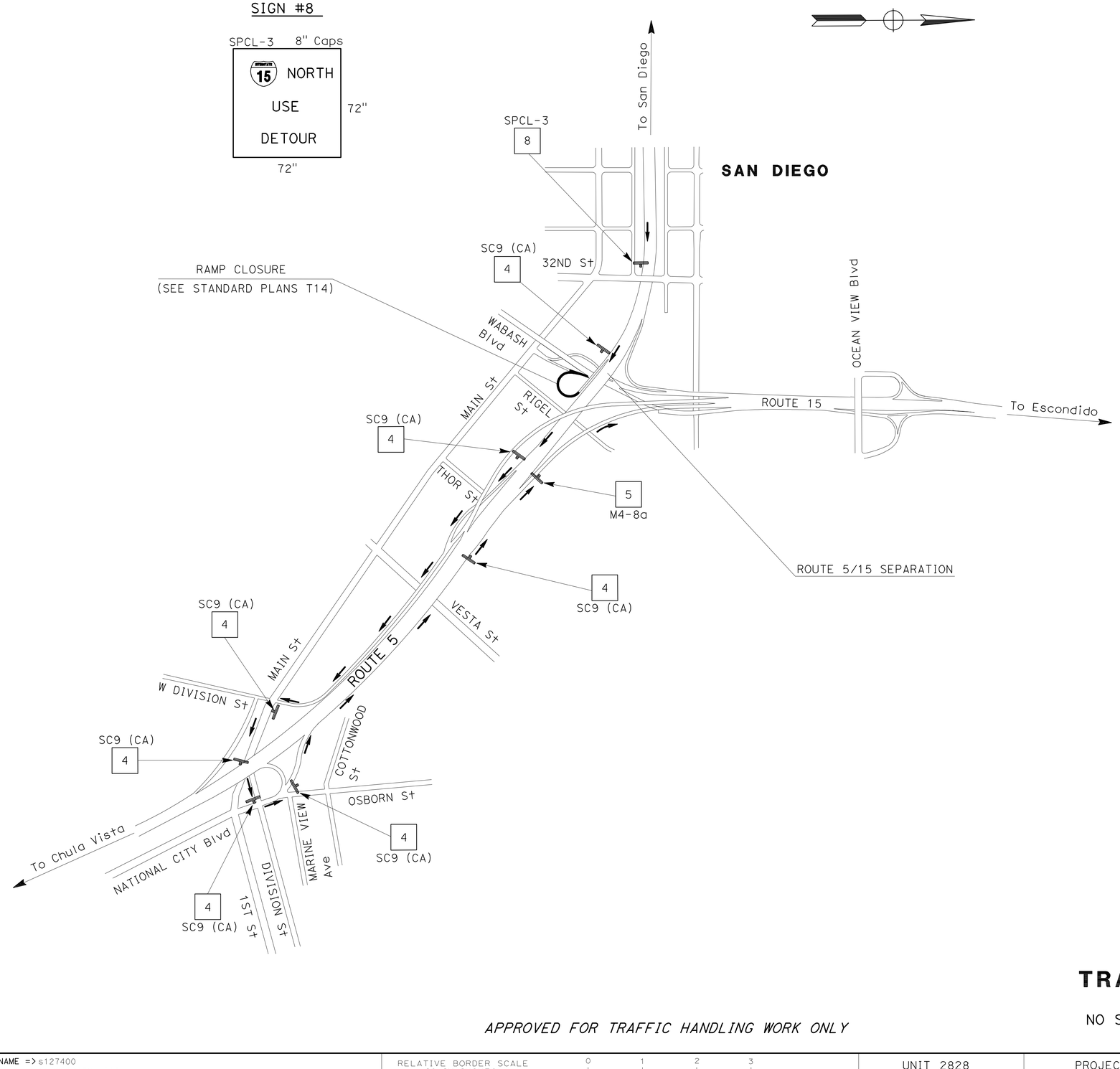
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

SIGN #8

SPCL-3 8" Caps

15 NORTH
USE
DETOUR

72" × 72"



SB 5 CONNECTOR TO NB 15 DETOUR

TRAFFIC HANDLING PLAN

NO SCALE

TH-3

APPROVED FOR TRAFFIC HANDLING WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
TRAFFIC DESIGN
FUNCTIONAL SUPERVISOR: CAMILLE ABOUFADEL
CALCULATED-DESIGNED BY: MARY BETH HAYES
CHECKED BY: SHAHIN ADIBI
DETAILED BY
REVISED BY
DATE REVISED

LAST REVISION DATE PLOTTED => 31-JAN-2012
TIME PLOTTED => 14:33
12-09-11

BORDER LAST REVISED 7/2/2010
USERNAME => s127400
DGN FILE => 1100020270md003.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 2828
PROJECT NUMBER & PHASE 1100020271

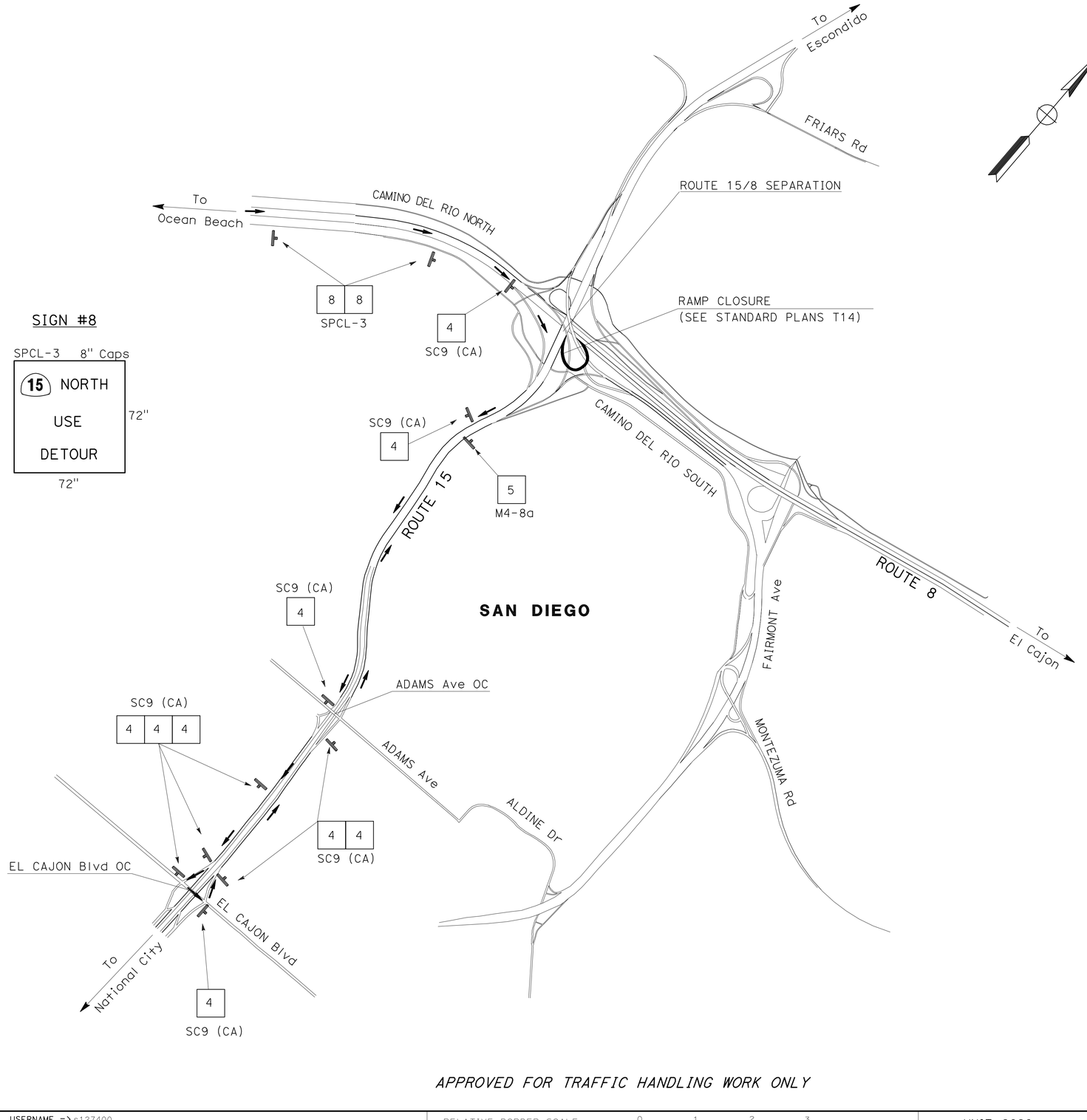
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,15,805	Var	6	37

12-06-11
REGISTERED CIVIL ENGINEER DATE

SHAHIN T. ADIBI No. 54839 Exp. 6-30-12 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

01-30-12
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.



SIGN #8

SPCL-3 8" Caps

15 NORTH
USE
DETOUR

72" × 72"

EB 8 CONNECTOR TO NB 15

TRAFFIC HANDLING PLAN

NO SCALE

TH-4

APPROVED FOR TRAFFIC HANDLING WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
TRAFFIC DESIGN
Caltrans

FUNCTIONAL SUPERVISOR: CAMILLE ABOUFADEL
CALCULATED-DESIGNED BY: MARY BETH HAYES
CHECKED BY: SHAHIN ADIBI
REVISED BY
DATE REVISED

LAST REVISION DATE PLOTTED => 31-JAN-2012
TIME PLOTTED => 14:34

BORDER LAST REVISED 7/2/2010
USERNAME => s127400
DGN FILE => 1100020270md004.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 2828
PROJECT NUMBER & PHASE 1100020271

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,15,805	Var	7	37

12-06-11
REGISTERED CIVIL ENGINEER DATE

01-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
SHAHIN T. ADIBI
No. 54839
Exp. 6-30-12
CIVIL
STATE OF CALIFORNIA

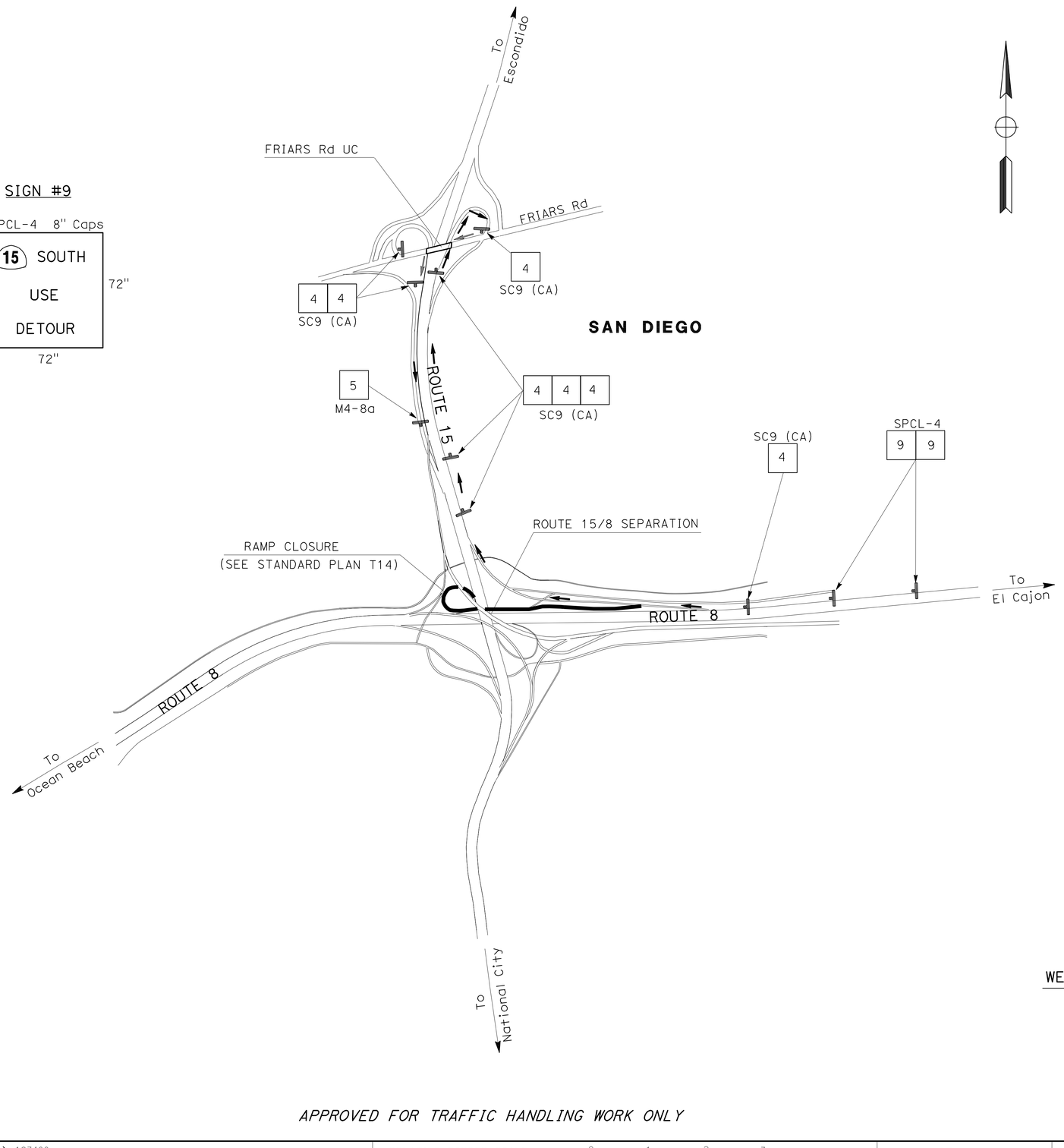
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

SIGN #9

SPCL-4 8" Caps

15 SOUTH
USE
DETOUR

72" x 72"



WESTBOUND 8 CONNECTOR TO SOUTHBOUND 15 DETOUR

TRAFFIC HANDLING PLAN

NO SCALE

TH-5

APPROVED FOR TRAFFIC HANDLING WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	TRAFFIC DESIGN
FUNCTIONAL SUPERVISOR	CAMILLE ABOUFADEL
CALCULATED-DESIGNED BY	MARY BETH HAYES
CHECKED BY	SHAHIN ADIBI
REVISED BY	
DATE REVISED	

LAST REVISION DATE PLOTTED => 31-JAN-2012
12-09-11 TIME PLOTTED => 14:34

BORDER LAST REVISED 7/2/2010
USERNAME => s127400
DGN FILE => 1100020270md005.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 2828
PROJECT NUMBER & PHASE 1100020271

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,15,805	Var	8	37

12-06-11
REGISTERED CIVIL ENGINEER DATE

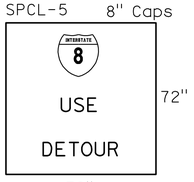
01-30-12
PLANS APPROVAL DATE

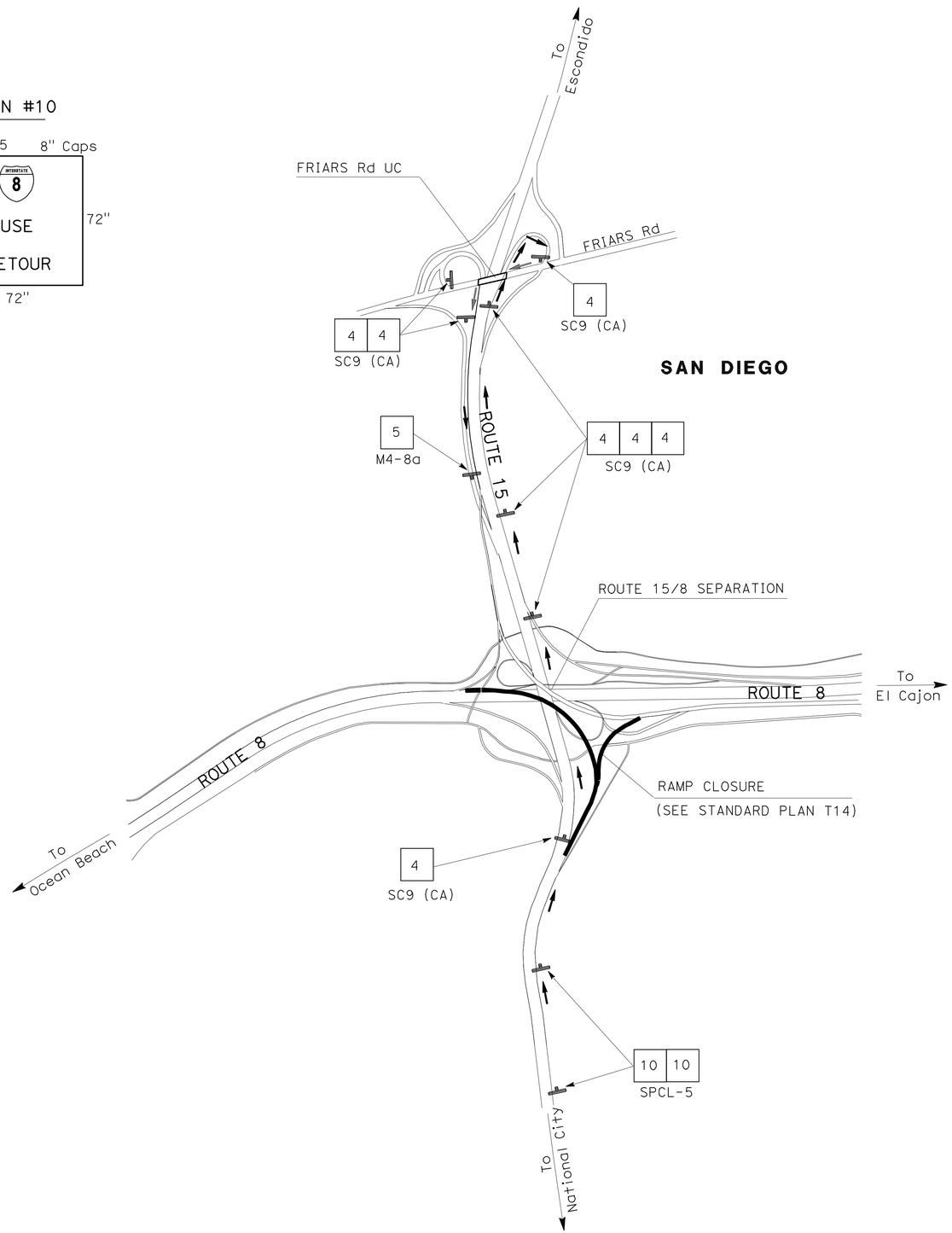
REGISTERED PROFESSIONAL ENGINEER
SHAHIN T. ADIBI
No. 54839
Exp. 6-30-12
CIVIL
STATE OF CALIFORNIA

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.

SIGN #10

SPCL-5 8" Caps





APPROVED FOR TRAFFIC HANDLING WORK ONLY

NB 15 CONNECTOR TO ROUTE 8 DETOUR

TRAFFIC HANDLING PLAN

NO SCALE

TH-6

REVISED BY	MARY BETH HAYES
DATE REVISED	SHAHIN ADIBI
CALCULATED-DESIGNED BY	
CHECKED BY	
FUNCTIONAL SUPERVISOR	CAMILLE ABOUFADEL

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
TRAFFIC DESIGN

LAST REVISION DATE PLOTTED => 31-JAN-2012
TIME PLOTTED => 14:34
12-09-11

BORDER LAST REVISED 7/2/2010

USERNAME => s127400
DGN FILE => 1100020270md006.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 2828

PROJECT NUMBER & PHASE 1100020271

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,15,805	Var	9	37

12-06-11
REGISTERED CIVIL ENGINEER DATE

01-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
SHAHIN T. ADIBI
No. 54839
Exp. 6-30-12
CIVIL
STATE OF CALIFORNIA

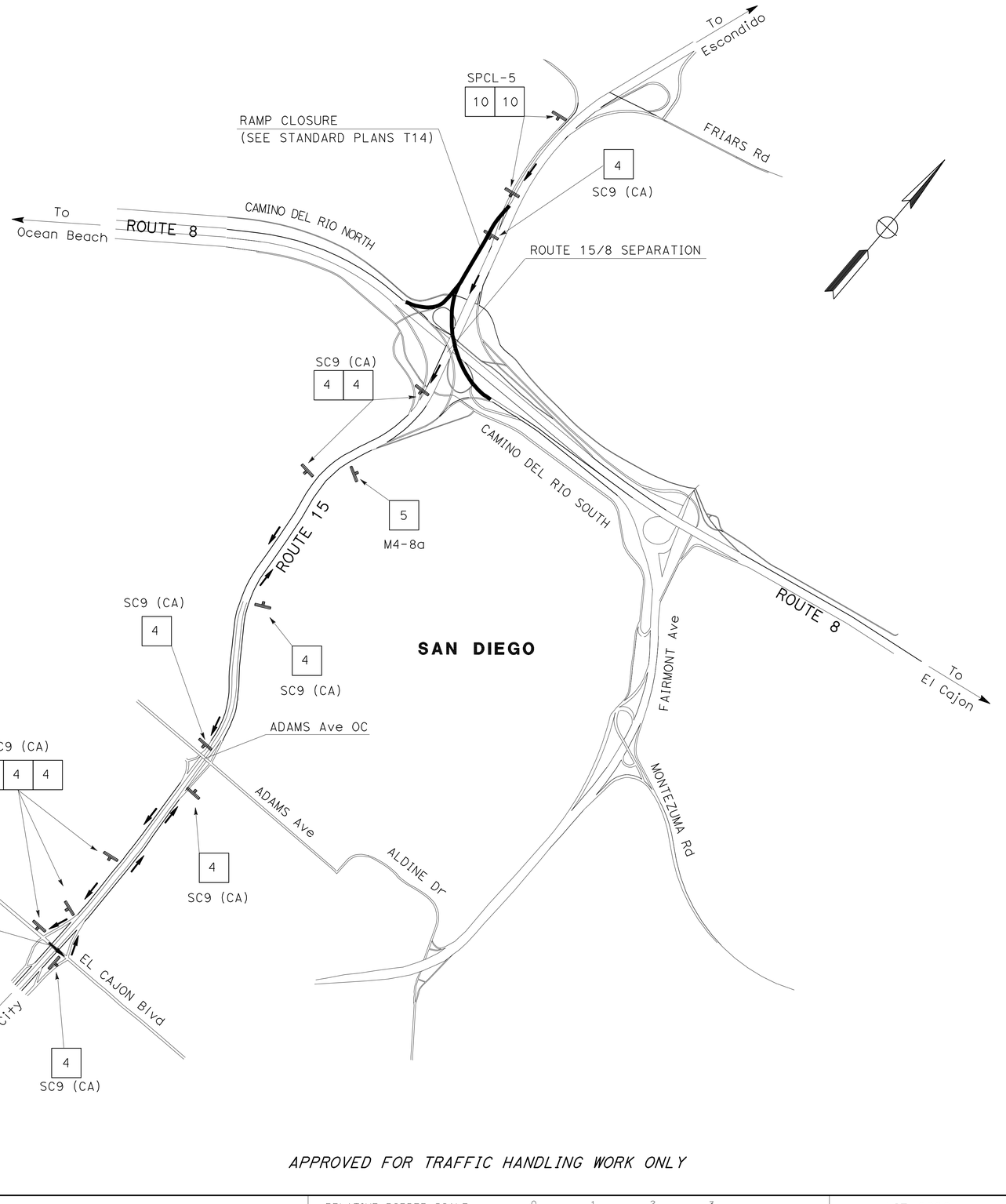
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

SIGN #10

SPCL-5 8" Caps

INTERSTATE 8
USE
DETOUR

72" × 72"



SB 15 CONNECTOR TO ROUTE 8 DETOUR

TRAFFIC HANDLING PLAN

NO SCALE

TH-7

APPROVED FOR TRAFFIC HANDLING WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: CAMILLE ABOUFADEL
CALCULATED-DESIGNED BY: MARY BETH HAYES
CHECKED BY: SHAHIN ADIBI
REVISED BY
DATE REVISED

LAST REVISION
DATE PLOTTED => 31-JAN-2012
TIME PLOTTED => 14:34

BORDER LAST REVISED 7/2/2010
USERNAME => s127400
DGN FILE => 1100020270md007.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 2828
PROJECT NUMBER & PHASE 1100020271

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,15,805	Var	10	37

12-06-11
REGISTERED CIVIL ENGINEER DATE

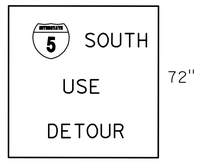
SHAHIN T. ADIBI No. 54839 Exp. 6-30-12 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

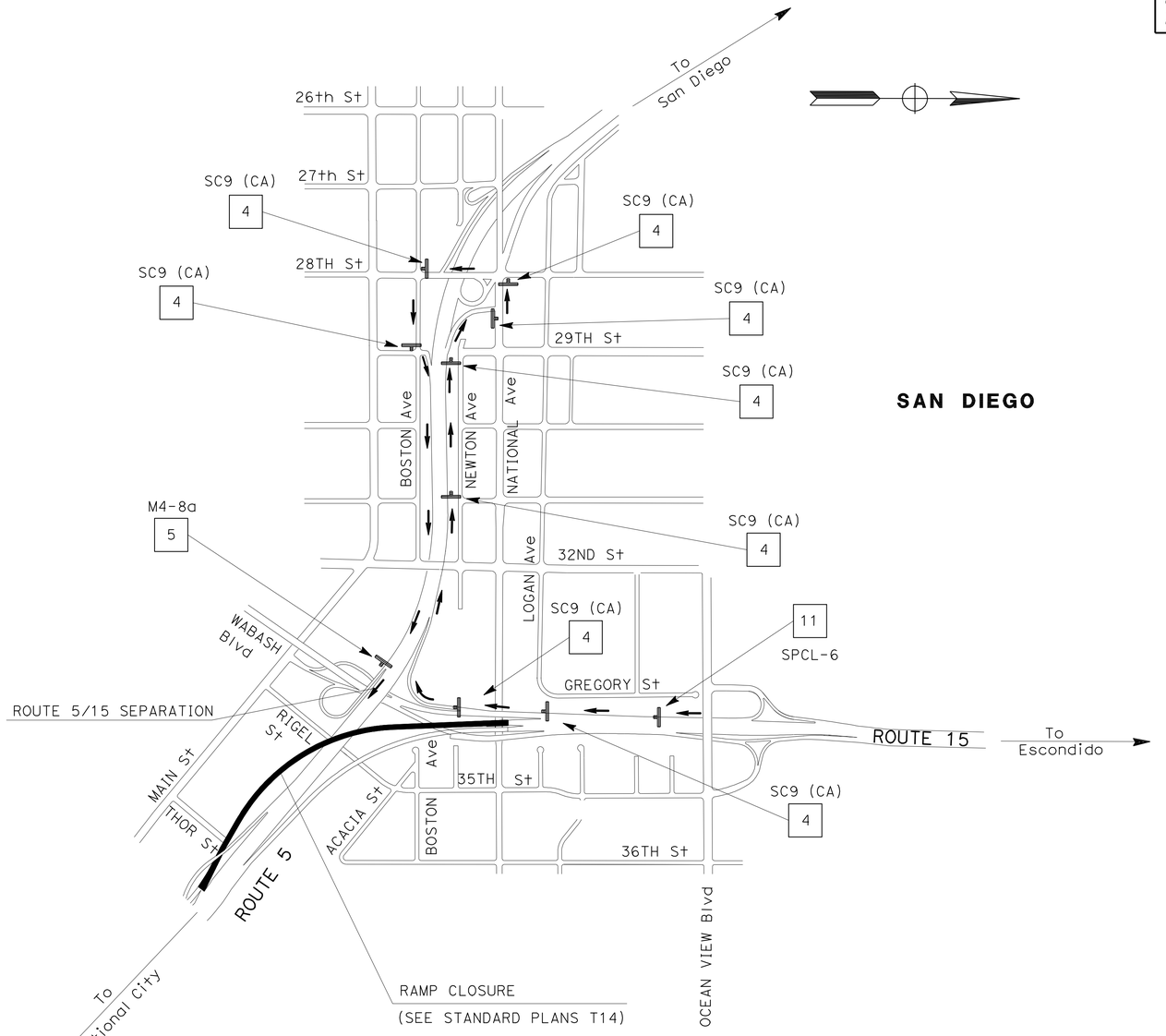
01-30-12
PLANS APPROVAL DATE

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.

SIGN #11

SPCL-6 8" Caps





SAN DIEGO

SB 15 CONNECTOR TO SB 5 DETOUR

TRAFFIC HANDLING PLAN

NO SCALE

TH-8

APPROVED FOR TRAFFIC HANDLING WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: CAMILLE ABOUFADEL
CALCULATED-DESIGNED BY: MARY BETH HAYES
CHECKED BY: SHAHIN ADIBI
REVISED BY
DATE REVISED

LAST REVISION DATE PLOTTED => 31-JAN-2012
TIME PLOTTED => 14:34

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,15,805	Var	11	37

12-06-11
REGISTERED CIVIL ENGINEER DATE

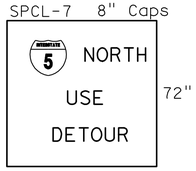
SHAHIN T. ADIBI No. 54839 Exp. 6-30-12 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

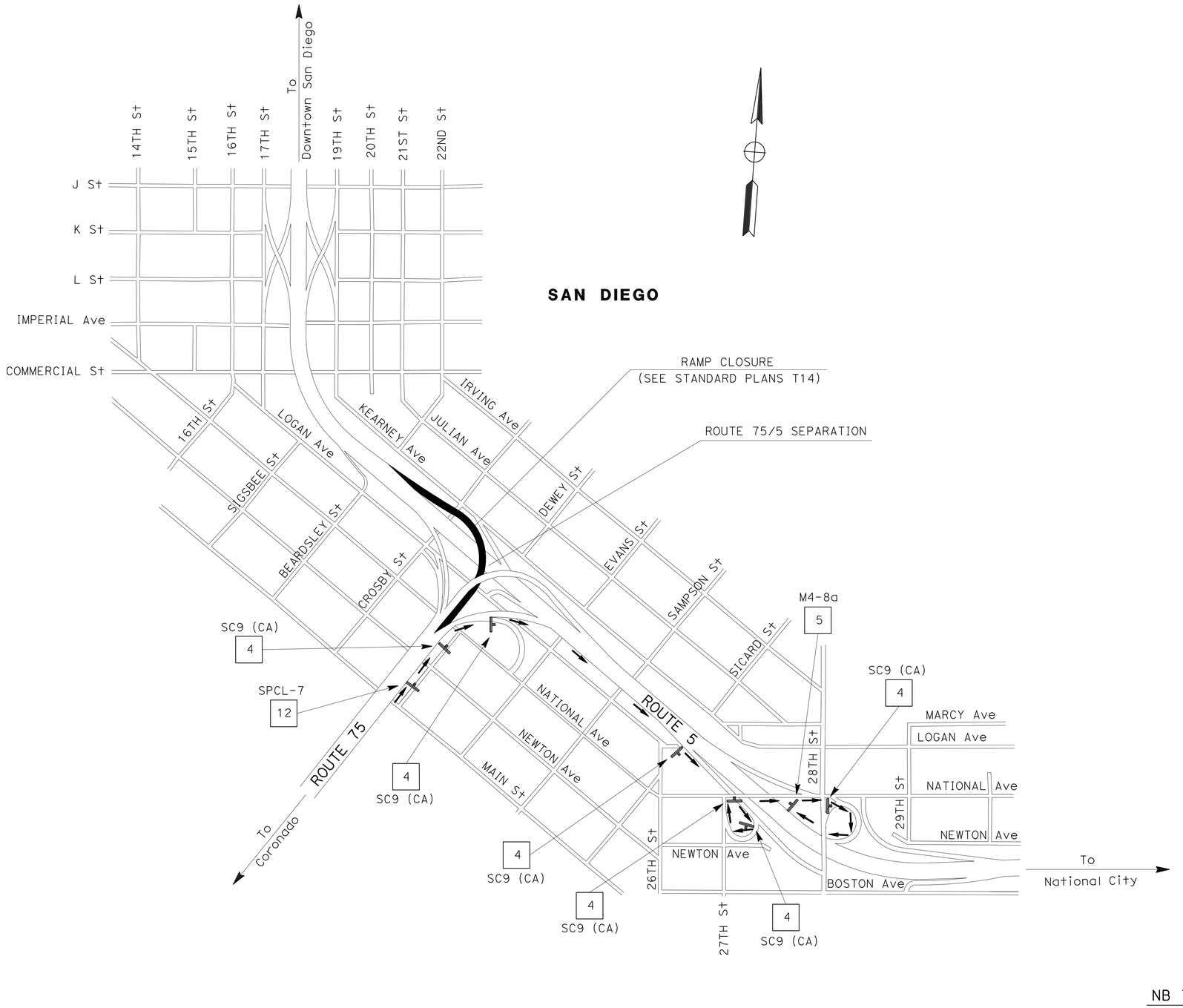
01-30-12
PLANS APPROVAL DATE

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.

SIGN #12

SPCL-7 8" Caps





NB 75 CONNECTOR TO NB 5 DETOUR

TRAFFIC HANDLING PLAN

NO SCALE

TH-9

APPROVED FOR TRAFFIC HANDLING WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: CAMILLE ABOUFADEL
CALCULATED-DESIGNED BY: MARY BETH HAYES
CHECKED BY: SHAHIN ADIBI
REVISED BY
DATE REVISED

LAST REVISION DATE PLOTTED => 31-JAN-2012
12-09-11 TIME PLOTTED => 14:34

BORDER LAST REVISED 7/2/2010
USERNAME => s127400
DGN FILE => 1100020270md009.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 2828
PROJECT NUMBER & PHASE 1100020271

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,15,805	Var	12	37

12-06-11
REGISTERED CIVIL ENGINEER DATE

01-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
SHAHIN T. ADIBI
No. 54839
Exp. 6-30-12
CIVIL
STATE OF CALIFORNIA

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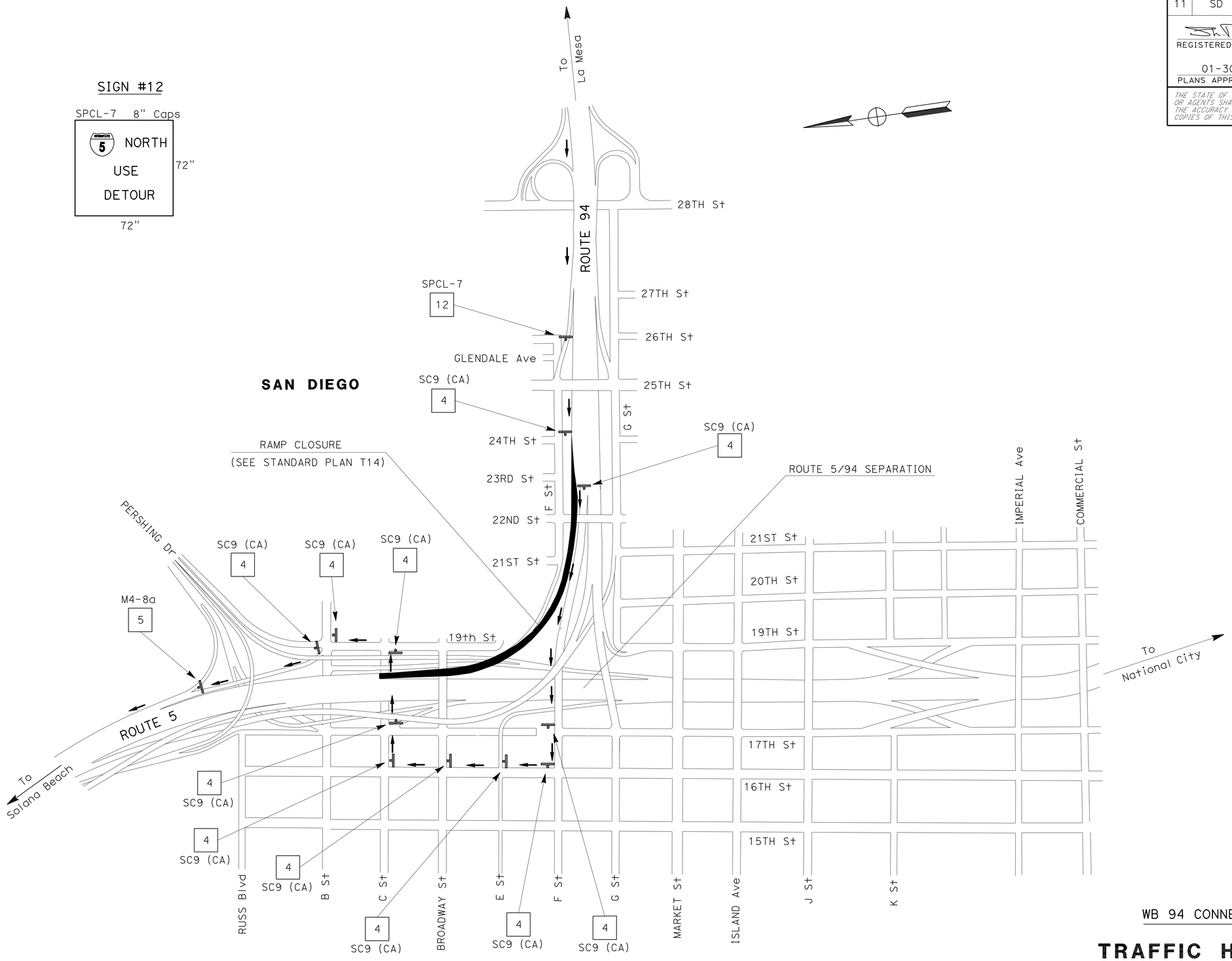
SIGN #12

SPCL-7 8" Caps

5 NORTH
USE
DETOUR

72" × 72"



WB 94 CONNECTOR TO NB 5 DETOUR

TRAFFIC HANDLING PLAN

NO SCALE

TH-10

APPROVED FOR TRAFFIC HANDLING WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
TRAFFIC DESIGN

CALCULATED-DESIGNED BY	CHECKED BY	FUNCTIONAL SUPERVISOR	REVISED BY	DATE REVISED
MARY BETH HAYES	SHAHIN ADIBI	CAMILLE ABOUFADEL		

LAST REVISION DATE PLOTTED => 31-JAN-2012
TIME PLOTTED => 14:34

BORDER LAST REVISED 7/2/2010
USERNAME => s127400
DGN FILE => 1100020270md010.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 2828
PROJECT NUMBER & PHASE 1100020271

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,15,805	Var	13	37

12-06-11
REGISTERED CIVIL ENGINEER DATE

01-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
SHAHIN T. ADIBI
No. 54839
Exp. 6-30-12
CIVIL
STATE OF CALIFORNIA

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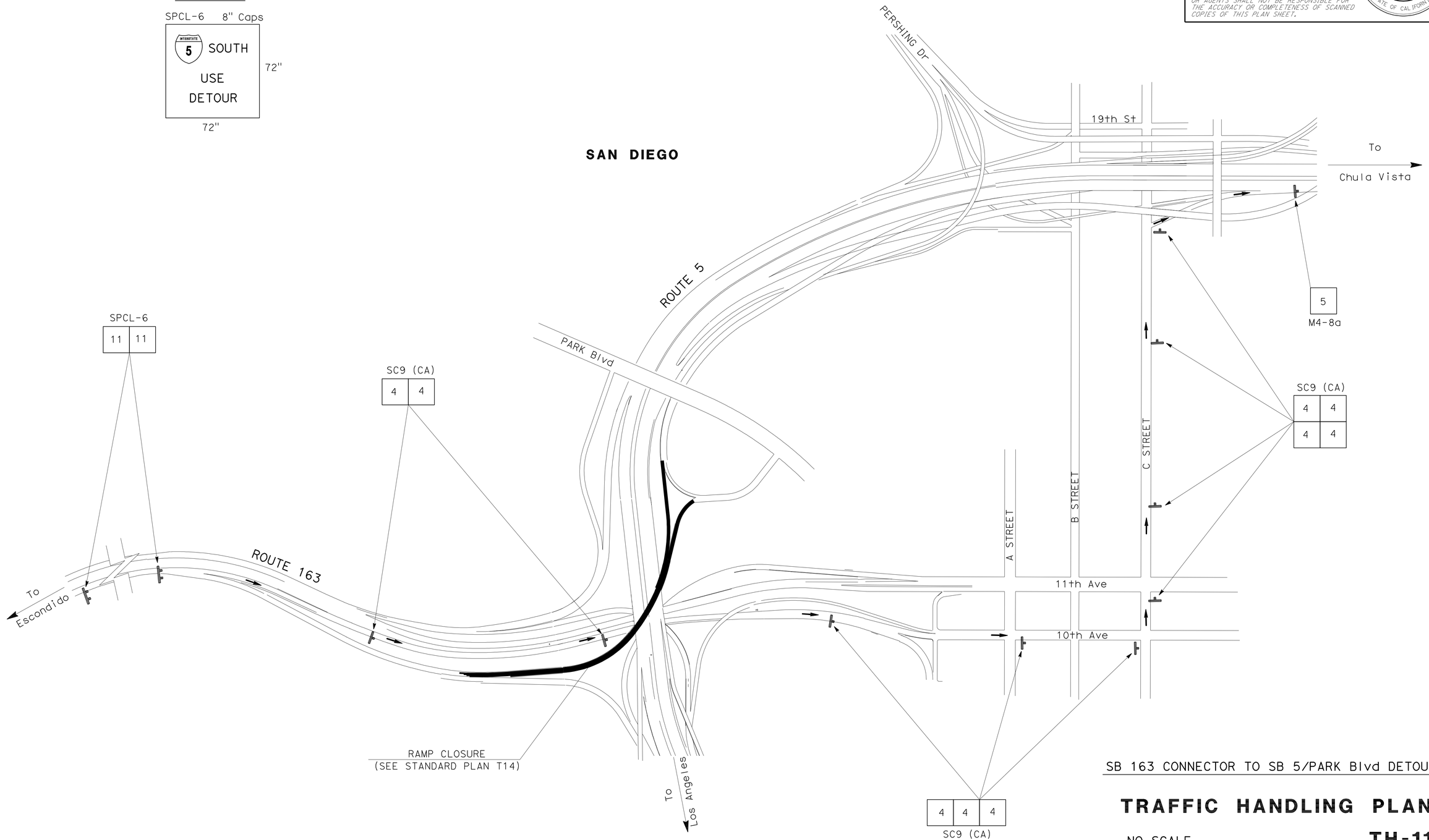
SIGN #11

SPCL-6 8" Caps

INTERSTATE 5
SOUTH
USE
DETOUR

72" × 72"

SAN DIEGO



SB 163 CONNECTOR TO SB 5/PARK Blvd DETOUR

TRAFFIC HANDLING PLAN

NO SCALE

TH-11

APPROVED FOR TRAFFIC HANDLING WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: CAMILLE ABOUFADEL

CALCULATED-DESIGNED BY: MARY BETH HAYES
CHECKED BY: SHAHIN ADIBI

REVISED BY | DATE REVISED

LAST REVISION | DATE PLOTTED => 31-JAN-2012
12-09-11 | TIME PLOTTED => 14:34

BORDER LAST REVISED 7/2/2010

USERNAME => s127400
DGN FILE => 1100020270md011.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 2828

PROJECT NUMBER & PHASE 1100020271

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,15,805	Var	14	37

REGISTERED CIVIL ENGINEER — DATE 12-06-11

01-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — SHAHIN T. ADIBI — No. 54839 — Exp. 6-30-12 — CIVIL — STATE OF CALIFORNIA

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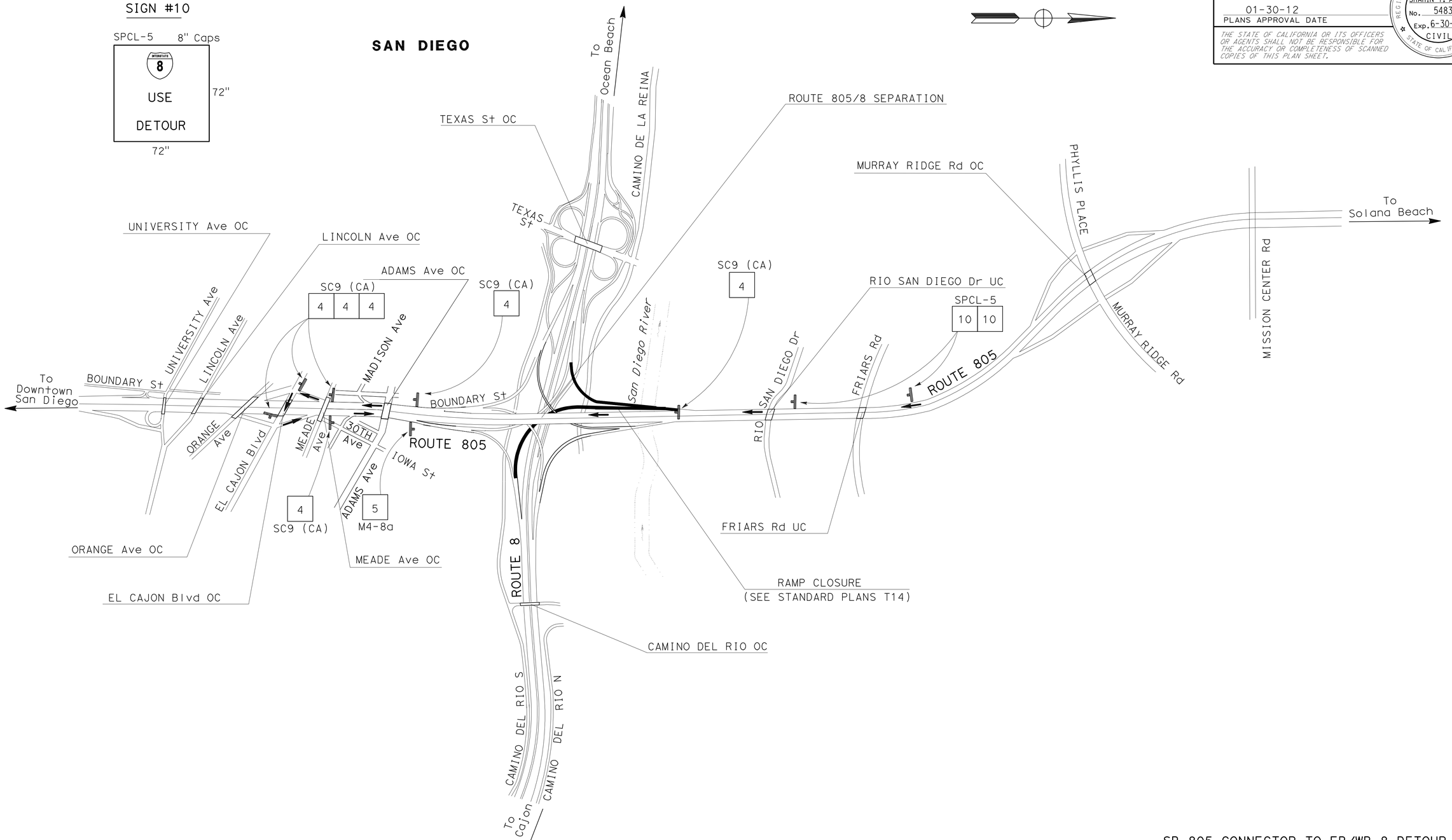
SIGN #10

SPCL-5 8" Caps

INTERSTATE 8

USE DETOUR

72" × 72"



APPROVED FOR TRAFFIC HANDLING WORK ONLY

SB 805 CONNECTOR TO EB/WB 8 DETOUR

TRAFFIC HANDLING PLAN

NO SCALE

TH-12

REVISED BY | DATE REVISED

MARY BETH HAYES | SHAHIN ADIBI

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR: CAMILLE ABOUFADEL

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® TRAFFIC DESIGN

LAST REVISION | DATE PLOTTED => 31-JAN-2012 | TIME PLOTTED => 14:34 | 12-09-11

BORDER LAST REVISED 7/2/2010 | USERNAME => s127400 | DGN FILE => 1100020270md012.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 2828 | PROJECT NUMBER & PHASE 1100020271

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,15,805	Var	15	37

12-06-11
REGISTERED CIVIL ENGINEER DATE

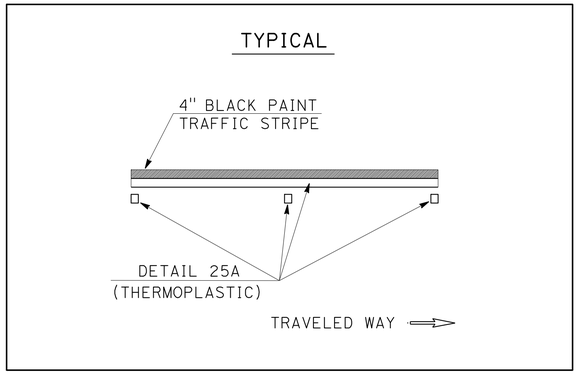
SHAHIN ADIBI
No. 54839
Exp. 06-30-12
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

01-30-12
PLANS APPROVAL DATE

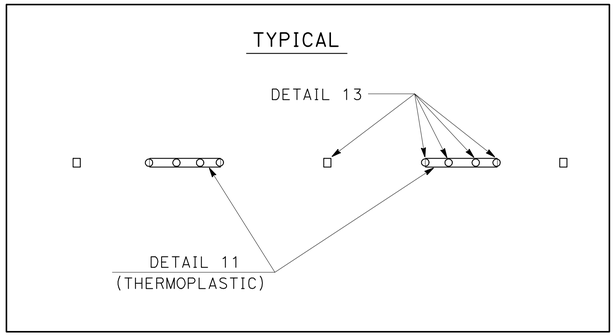
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE: 1. BLACK PAINT QUANTITY IS EQUIVALENT TO THE LENGTH OF BRIDGE IN EACH DIRECTION.

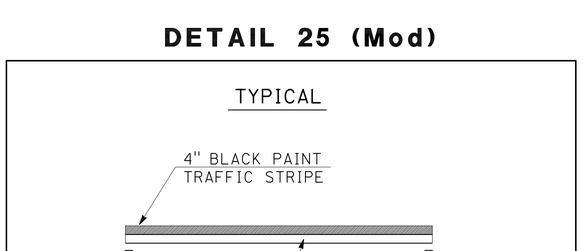
DETAIL 25A (Mod)



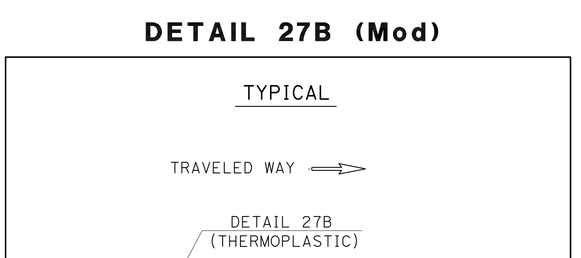
DETAIL 11/13



DETAIL 25 (Mod)



DETAIL 27B (Mod)



PAVEMENT DELINEATION DETAILS

NO SCALE

PDD-1

REVISED BY | DATE REVISED
REBECCA IGNACIO | SHAHIN ADIBI
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: CAMILLE ABOUFADEL
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC DESIGN

LAST REVISION 12-09-11 | DATE PLOTTED => 31-JAN-2012 | TIME PLOTTED => 14:34

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,15,805	Var	16	37

12-06-11
REGISTERED CIVIL ENGINEER DATE

01-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
SHAHIN T. ADIBI
No. 54839
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.

REMOVE PAINTED TRAFFIC STRIPE

LOCATION	ROUTE	POSTMILE	BRIDGE No.	DETAIL	LF
3	5	R14.89	57-0433	8	140
4	5	R15.41	57-0428	11	280
				27B	160
				27B (Mod)	320
9	15	R0.12	57-0732F	27B (Mod)	3,400
10	15	0.47	57-0495S	27B (Mod)	50
12	15	R6.06	57-0884F	11	685
				27B (Mod)	2,750
15	15	R22.94	57-0577R	11	960
				27B (Mod)	225
				TOTAL	8,970

REMOVE PAVEMENT MARKER (EA) (N)

LOCATION	ROUTE	POSTMILE	BRIDGE No.	TYPE		
				A	G	H
4	5	R15.41	57-0428	96	42	20
9	15	R0.12	57-0732F	288	74	74
10	15	0.47	57-0495S			6
12	15	R6.06	57-0884F	228	60	60
15	15	R22.94	57-0577R	80	22	8

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

REMOVE THERMOPLASTIC TRAFFIC STRIPE

LOCATION	ROUTE	POSTMILE	BRIDGE No.	DETAIL	LF
4	5	R15.41	57-0428	37	64
				TOTAL	64

REMOVE YELLOW PAINTED TRAFFIC STRIPE (HAZARDOUS WASTE)

LOCATION	ROUTE	POSTMILE	BRIDGE No.	DETAIL	LF
3	5	R14.89	57-0433	28	960
4	5	R15.41	57-0428	25 (Mod)	320
				25A (Mod)	160
9	15	R0.12	57-0732F	25 (Mod)	3,400
10	15	0.47	57-0495S	25A (Mod)	50
12	15	R6.06	57-0884F	25 (Mod)	2,750
15	15	R22.94	57-0577R	25 (Mod)	225
				TOTAL	7,865

						PAVEMENT MARKER SUMMARY			TRAFFIC STRIPE SUMMARY					
						NON-REFLECTIVE	RETROREFLECTIVE		PAINT	THERMOPLASTIC (LF)				REMARKS
LOCATION	ROUTE	DESCRIPTION	POSTMILE	BRIDGE No.	DETAIL No.	(EA)	(EA)		(LF)	4"	4"	4"	8"	
						TYPE A	TYPE G	TYPE H	1-COAT	(SOLID)	(BROKEN 17'-7')	(BROKEN 36'-12')	(BROKEN 12'-3')	
3	5	MARKET STREET OC	R14.89	57-0433	8						480			
					28					960				L=240
4	5	PERSHING DRIVE UC	R15.41	57-0428	11/13	96	26					1,120		L=1,120
					25 (Mod)			10	320	320				
					25A (Mod)			10	160	160				
					27B (Mod)				480	480				
					37		16						160	
9	15	S15-S5 CONNECTOR OC	R0.12	57-0732F	11/13	288	74					3,400		L=3,400
					25 (Mod)			74	3,400	3,400				
					27B (Mod)				3,400	3,400				
10	15	SOUTH BRANCH CHOLLAS CREEK	0.47	57-0495S	25A (Mod)			6	50	50				
					27B (Mod)				50	50				
12	15	S15-E8 CONNECTOR OC	R6.06	57-0884F	11/13	228	60					2,750		L=2,750
					25 (Mod)			60	2,750	2,750				
					27B (Mod)				2,750	2,750				
15	15	BERNARDO DENTER Dr UC	R22.94	57-0577R	11/13	80	22					960		L=225
					25 (Mod)			8	225	225				
					27B (Mod)				225	225				
					TOTAL	692	366		13,810	14,770	480	8,230	160	

NOTES:
1. ALL Exist STRIPING WILL BE REPLACED WITH THERMOPLASTIC STRIPING.
2. NEW DETAIL 27B (Mod) WILL REPLACE Exist DETAIL 27B AT LOCATION #4.
3. NEW DETAIL 11/13 WILL REPLACE Exist DETAIL 13 AT LOCATION #9.

PAVEMENT DELINEATION QUANTITIES

PDQ-1

CALCULATED-DESIGNED BY: MARY BETH HAYES
CHECKED BY: SHAHIN ADIBI
FUNCTIONAL SUPERVISOR: CAMILLE ABOUFADEL
REVISED BY / DATE REVISED:
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
TRAFFIC DESIGN

LAST REVISION 01-19-12
DATE PLOTTED => 31-JAN-2012
TIME PLOTTED => 14:34

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,15,805	Var	17	37

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

May 20, 2011
PLANS APPROVAL DATE

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

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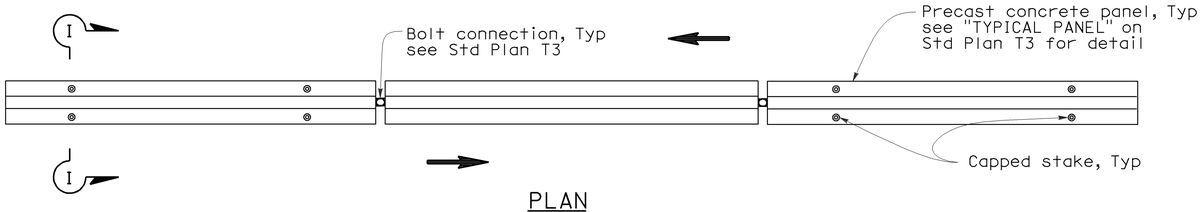
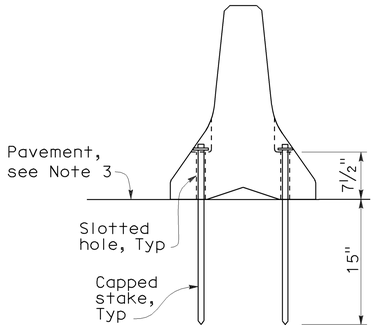
To accompany plans dated 01-30-12



PLAN

RAILING STAKING CONFIGURATION FOR TWO-WAY TRAFFIC

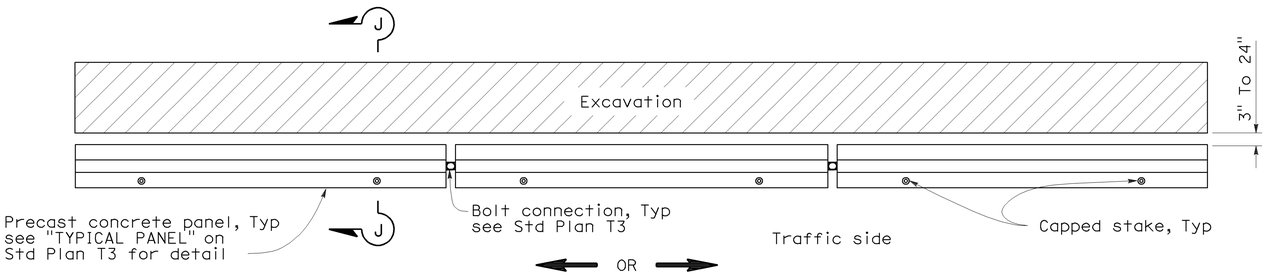
See Note 1



SECTION I-I

NOTES:

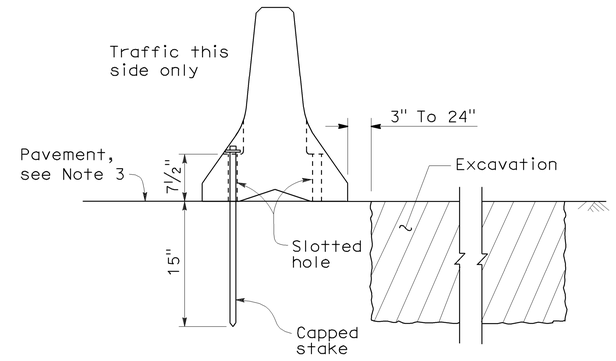
1. Where Type K Temporary Railing is placed as a temporary or long term barrier in two-way traffic on highways with less than 24" from the edge of traveled way, use four capped stakes per every other panel with end panels staked.
2. Where Type K Temporary Railing is placed 3" to 24" from the edge of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



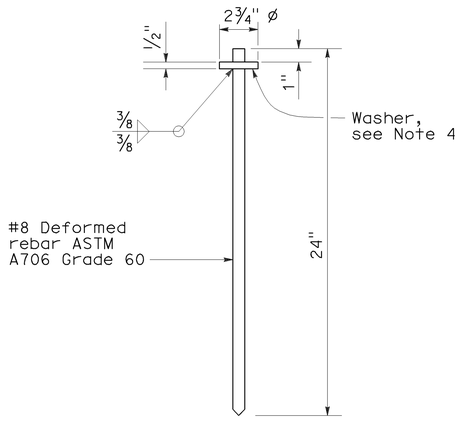
PLAN

RAILING STAKING CONFIGURATION ADJACENT TO AN EXCAVATION

See Note 2



SECTION J-J



CAPPED STAKE DETAIL

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY RAILING (TYPE K)

NO SCALE

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

NEW STANDARD PLAN NSP T3A

2006 NEW STANDARD PLAN NSP T3A

8-31-10

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5,15,805	Var	18	37

REGISTERED CIVIL ENGINEER

Efthymios Delis
No. C51434
Exp. 6-30-08
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

October 5, 2007
PLANS APPROVAL DATE

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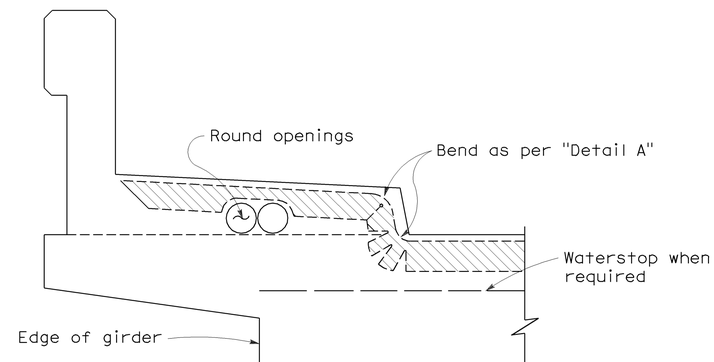
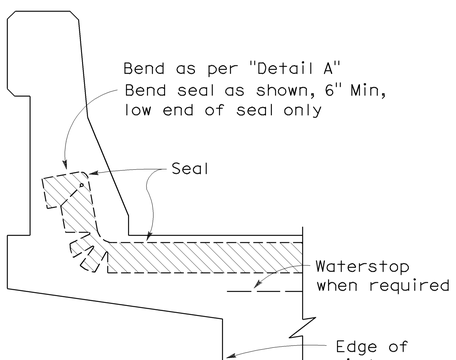
To accompany plans dated 01-30-12



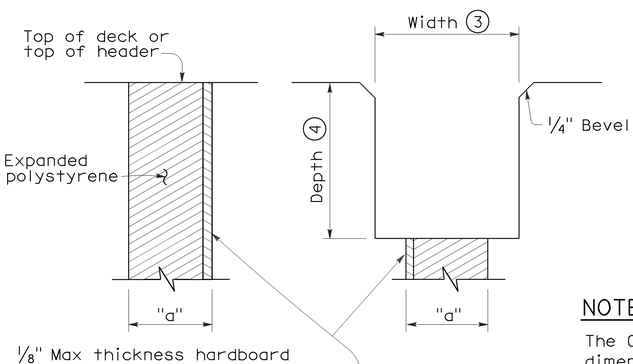


NOTE:

Type "B" seal shown. Type "A" seals to comform to the general path of seal shown, cuts for bending not required. Bend Type "A" seals 3" up into curb or barrier rail on only the low end of the seal.

CONCRETE BARRIER AND SIDEWALK

CONCRETE BARRIER



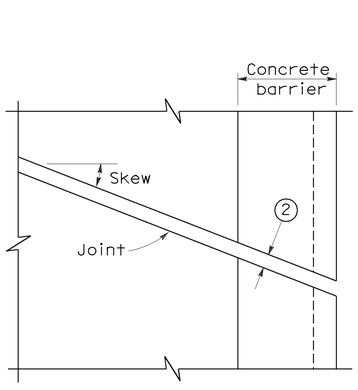
FORMING DETAIL

SAWCUT DETAIL

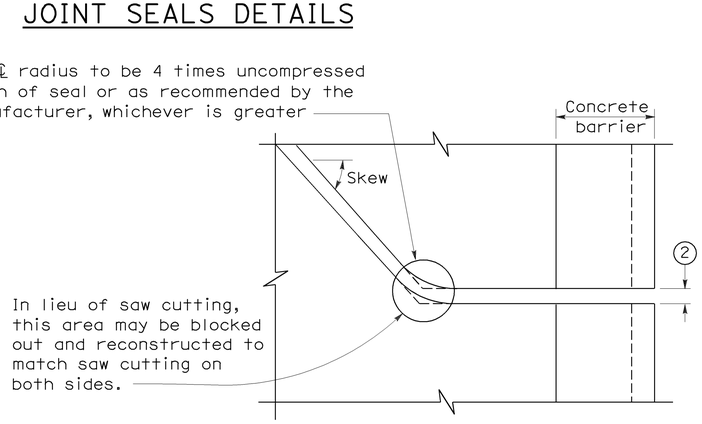
NOTE:

The Contractor shall verify all controlling field dimensions before ordering or fabricatiing any material.

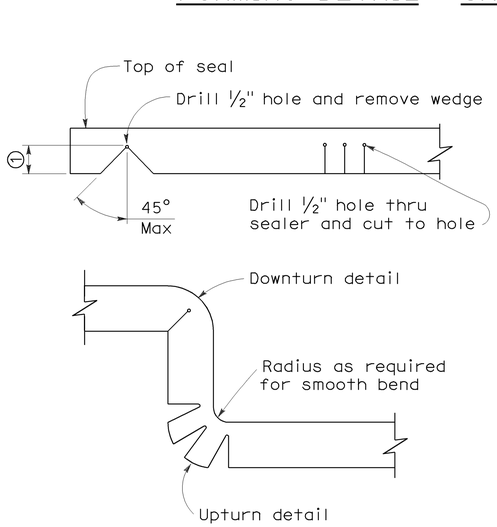
JOINT SEALS DETAILS



PLAN OF JOINT (SKEW ≤ 20°)



PLAN OF JOINT (SKEW > 20°)



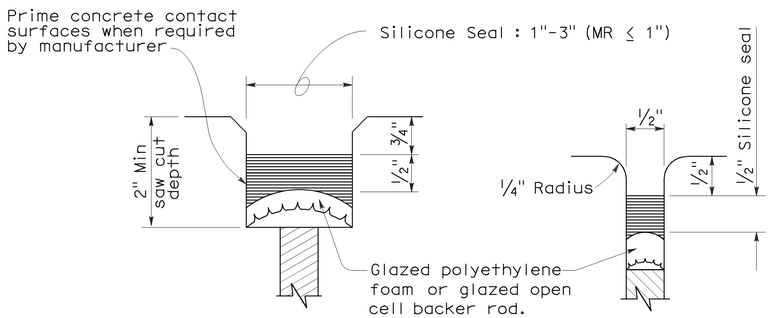
DETAIL A

NOTES:

1. Make smooth cuts from the bottom of seal to 1½" clear of top leaving at least one complete cell between the top of the cut and top of the seal. When necessary cut back of seal to clear conduit and round openings.
2. Opening in barrier to match width of sawn deck joint.
3. Sawcut groove widths shall be as ordered by the Engineer.
4. Depth of sawcut: Type A - Depth to be 2" minimum.
   Type B - Depth to be equal to or greater than the depth of seal measured along the contact surface, when compressed to minimum width position (W_2) plus dimensions shown.
5. MR (movement rating) as shown on other plan sheets.
6. Other depths must be approved by the Engineer.

DIMENSIONS "a" OF JOINT REQUIRED

Movement Rating (MR) (5)	Bridge Type	"a" Dimension Deck Concrete Placed		
		Winter	Fall-Spring	Summer
2"	All except CIP/PS	1½"	1¼"	¾"
	CIP/PS	1¼"	1"	½"
1½"	All except CIP/PS	1¼"	1"	½"
	CIP/PS	1"	¾"	½"
1"	All except CIP/PS	1"	¾"	½"
	CIP/PS	¾"	½"	½"
½"	All except CIP/PS	¾"	¾"	½"
	CIP/PS	½"	½"	½"

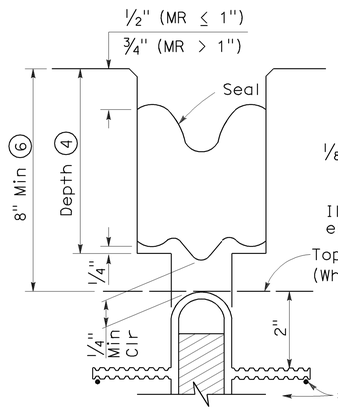


TYPE A SEAL

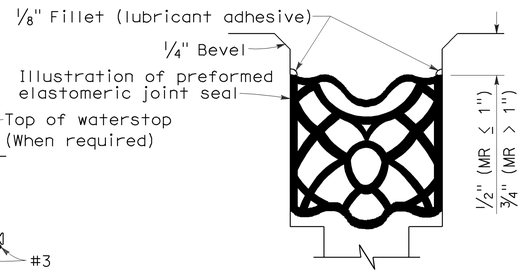
Movement rating : Silicone = 1" Max

TYPE AL SEAL

Longitudinal joints only



TYPE B JOINT SEAL IN MINIMUM WIDTH POSITION (W_2)



TYPE B SEAL

Movement Rating ≤ 2"

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")

NO SCALE

RSP B6-21 DATED OCTOBER 5, 2007 SUPERSEDES STANDARD PLAN B6-21 DATED MAY 1, 2006 - PAGE 258 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP B6-21

2006 REVISED STANDARD PLAN RSP B6-21

5-8-07

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5,15,805	Var	19	37

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

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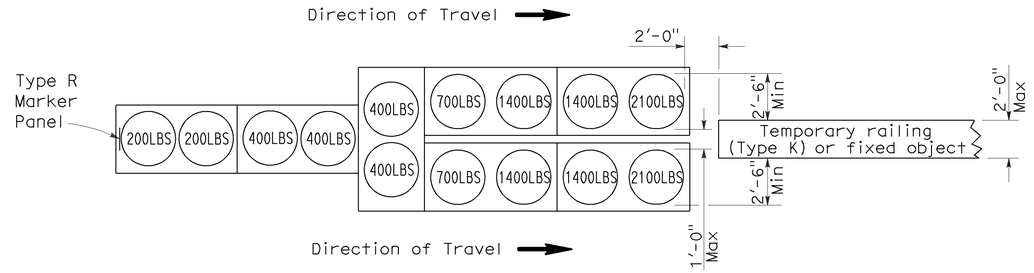
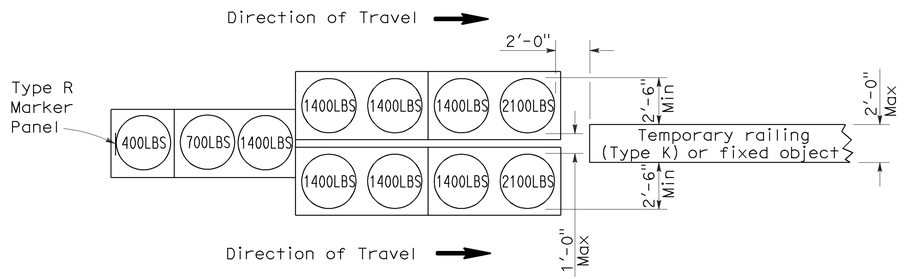
To accompany plans dated 01-30-12



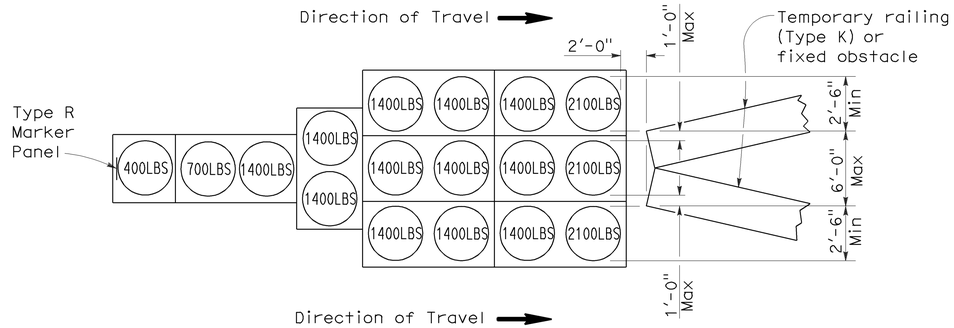
ARRAY 'TU14'

Approach speed 45 mph or more



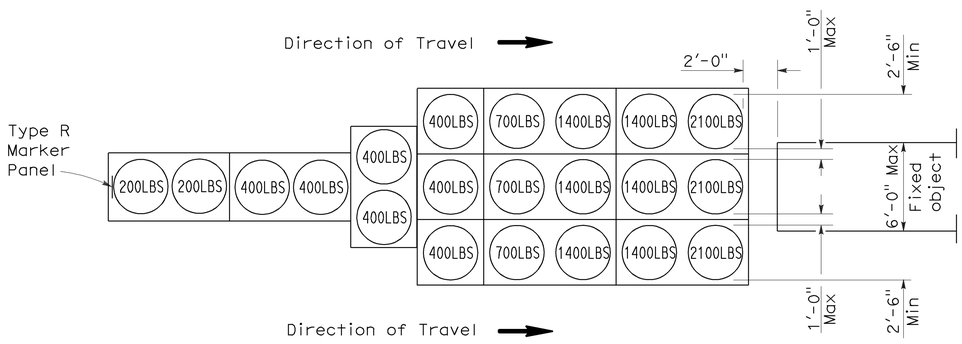
ARRAY 'TU11'

Approach speed less than 45 mph



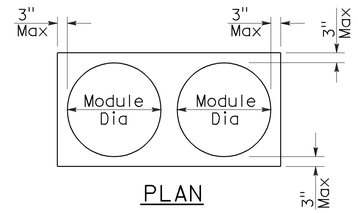
ARRAY 'TU17'

Approach speed less than 45 mph

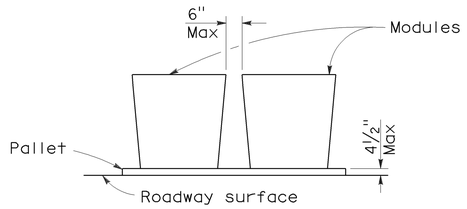


ARRAY 'TU21'

Approach speed 45 mph or more



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY CRASH CUSHION, SAND FILLED (UNIDIRECTIONAL)

NO SCALE

RSP T1A DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T1A
DATED MAY 1, 2006 - PAGE 211 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T1A

2006 REVISED STANDARD PLAN RSP T1A

5-15-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5,15,805	Var	20	37

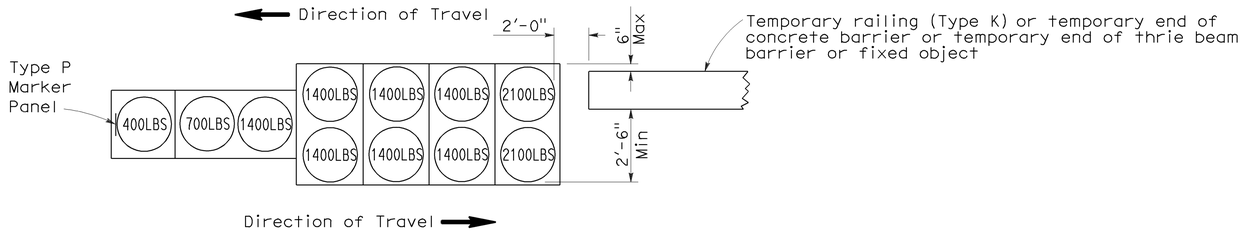
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

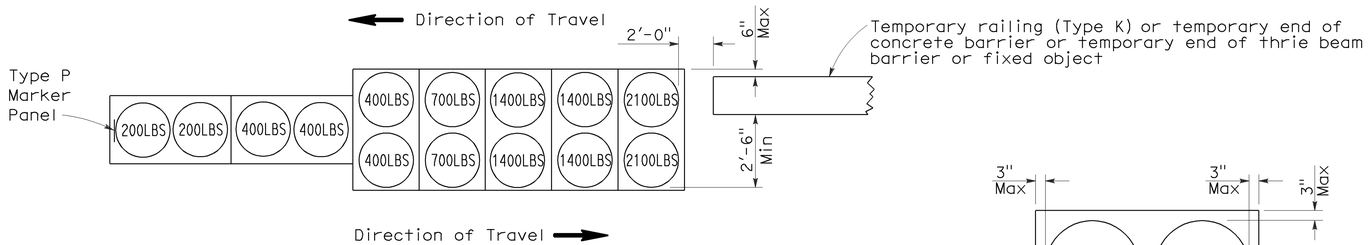
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 01-30-12



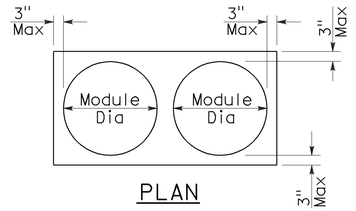
ARRAY 'TB11'

Approach speed less than 45 mph

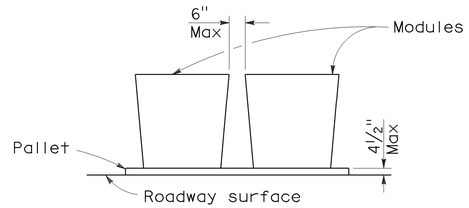


ARRAY 'TB14'

Approach speed 45 mph or more



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY CRASH CUSHION, SAND FILLED (BIDIRECTIONAL)

NO SCALE

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

REVISED STANDARD PLAN RSP T1B

2006 REVISED STANDARD PLAN RSP T1B

5-15-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5,15,805	Var	21	37

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

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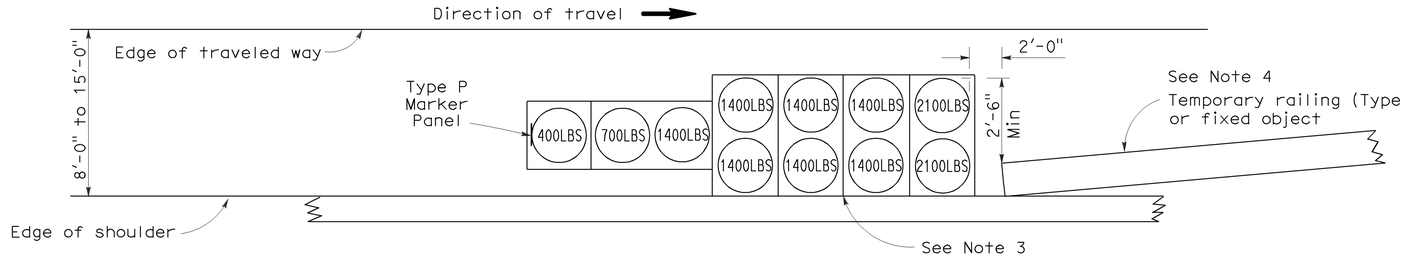
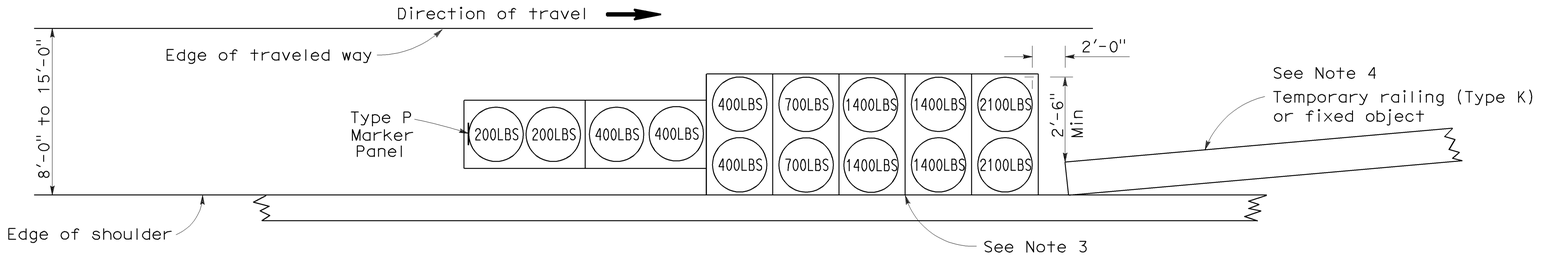
To accompany plans dated 01-30-12



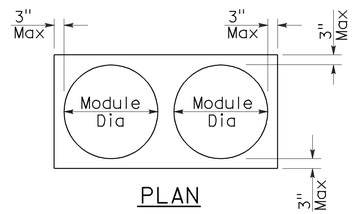
ARRAY 'TS11'

Approach speed less than 45 mph
See Note 9

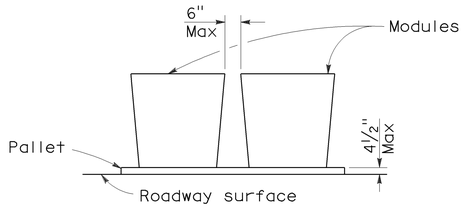


ARRAY 'TS14'

Approach speed 45 mph or more
See Note 9



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 11

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY CRASH CUSHION, SAND FILLED (SHOULDER INSTALLATIONS)

NO SCALE

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

REVISED STANDARD PLAN RSP T2

2006 REVISED STANDARD PLAN RSP T2

5-15-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,15,805	Var	22	37

REGISTERED CIVIL ENGINEER — 11/14/11 DATE

VINH DUC L. DANG No. C65096 Exp. 09/30/13 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

01-30-12
PLANS APPROVAL DATE

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INDEX TO PLANS

SHEET NO.	TITLE
1	GENERAL PLAN NO. 1
2	GENERAL PLAN NO. 2
3	GENERAL PLAN NO. 3
4	GENERAL PLAN NO. 4
5	GENERAL PLAN NO. 5
6	GENERAL PLAN NO. 6
7	GENERAL PLAN NO. 7
8	GENERAL PLAN NO. 8
9	GENERAL PLAN NO. 9
10	GENERAL PLAN NO. 10
11	MISCELLANEOUS DETAILS NO. 1
12	MISCELLANEOUS DETAILS NO. 2
13	JOINT SEAL DETAILS NO. 1
14	JOINT SEAL DETAILS NO. 2
15	JOINT SEAL ASSEMBLY (MAXIMUM (MOVEMENT RATING = 4")
16	STRUCTURE APPROACH TYPE R(30D)

STANDARD PLANS DATED MAY 2006

SHEET NO.	TITLE
A10A	ACRONYMS AND ABBREVIATIONS (SHEET 1 OF 2)
A10B	ACRONYMS AND ABBREVIATIONS (SHEET 2 OF 2)
A10C	SYMBOLS (SHEET 1 OF 2)
A10D	SYMBOLS (SHEET 2 OF 2)
RSP B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")

STANDARD PLAN SHEET NO.

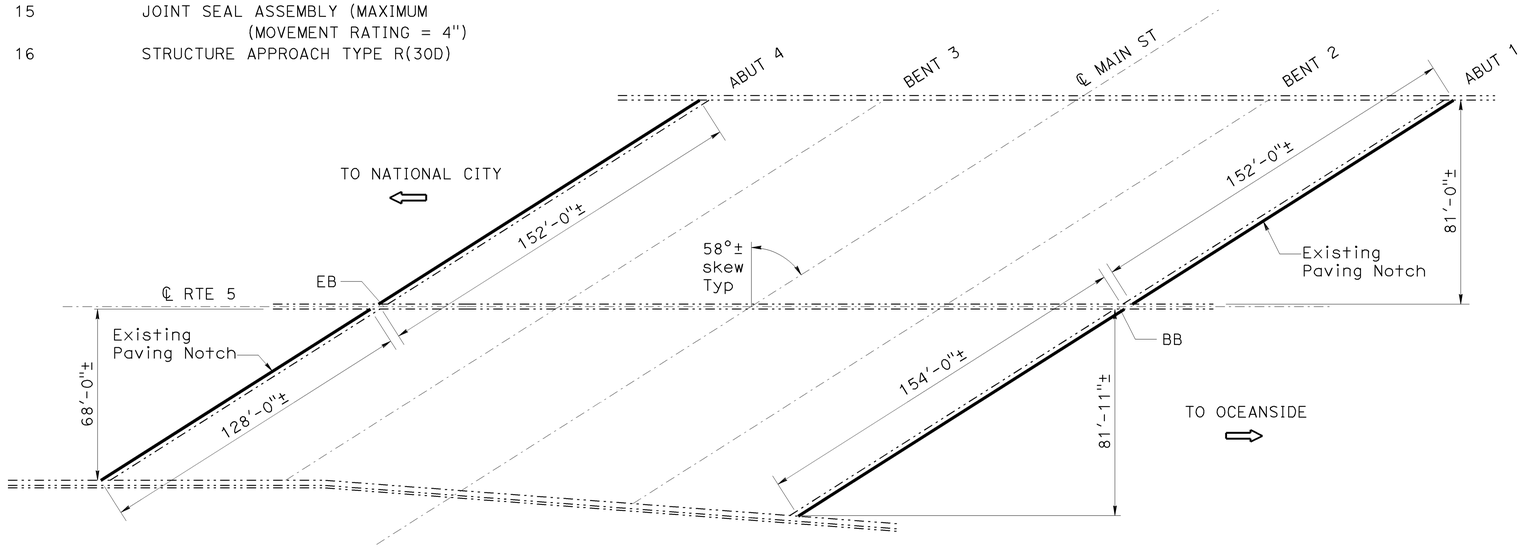
DETAIL NO.

LEGEND:

Indicates existing.

Indicates direction of traffic.

Indicates location of clean expansion joint and placement of new joint seal. Prior to placement of new joint seal remove unsound concrete and patch with rapid setting concrete. See "JOINT SPALL REPAIR DETAIL" on "MISCELLANEOUS DETAILS NO. 2" sheet.



MAIN STREET UC — BRIDGE NO. 57-0434

QUANTITIES

REMOVE UNSOUND CONCRETE	2	CF
CLEAN EXPANSION JOINT	586	LF
RAPID SETTING CONCRETE (PATCH)	2	CF
JOINT SEAL (MR 1/2")	586	LF

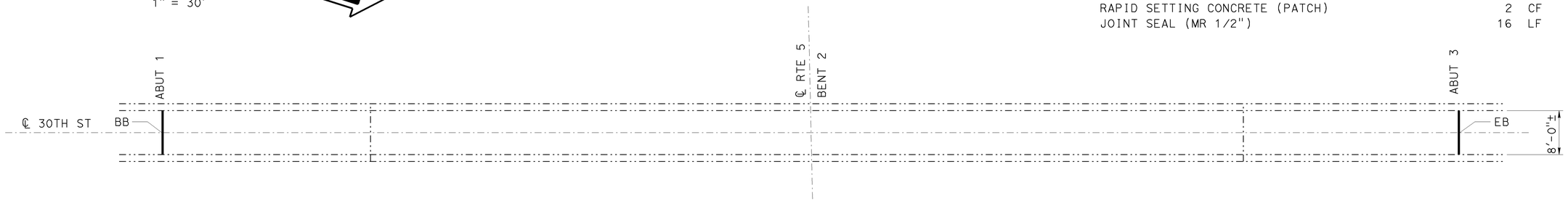
MAIN STREET UC

Br No. 57-0434, Rte 5, PM R11.66
1" = 30'

30TH STREET POC — BRIDGE NO. 57-0440

QUANTITIES

REMOVE UNSOUND CONCRETE	2	CF
CLEAN EXPANSION JOINT	16	LF
RAPID SETTING CONCRETE (PATCH)	2	CF
JOINT SEAL (MR 1/2")	16	LF



30TH STREET POC

Br No. 57-0440, Rte 5, PM R13.12
1" = 10'

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

		BY	CHECKED	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
TONY D. BRAKE	DESIGN	Vinh Dang	Ramesh Patel			
DESIGN ENGINEER	DETAILS	Tom Dang	Vinh Dang	LAYOUT	Tom Dang	Vinh Dang
	QUANTITIES	Vinh Dang	Ramesh Patel	SPECIFICATIONS	Dave Klein	PLANS AND SPECS COMPARED: Dave Klein

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.: Various
POST MILE: Varies

ROUTE 5, 15, 805 BRIDGES
GENERAL PLAN NO. 1

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3

UNIT: 3489
PROJECT NUMBER & PHASE: 1100020270
CONTRACT NO.: 2M3201

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES				SHEET	OF
1/19/2011	7/28/2011			01	16

FILE => 11-2m3201-a-gp01.dgn

USERNAME => S1239239 DATE PLOTTED => 24-JAN-2012 TIME PLOTTED => 08:43

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,15,805	Var	23	37

11/14/11
REGISTERED CIVIL ENGINEER — DATE

VINH DUC L. DANG
No. C65096
Exp. 09/30/13
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

01-30-12
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.

PERSHING DRIVE UC BRIDGE NO. 57-0428

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	19,780	SQFT
TREAT BRIDGE DECK	19,780	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	250	GAL

LEGEND:

Indicates existing.

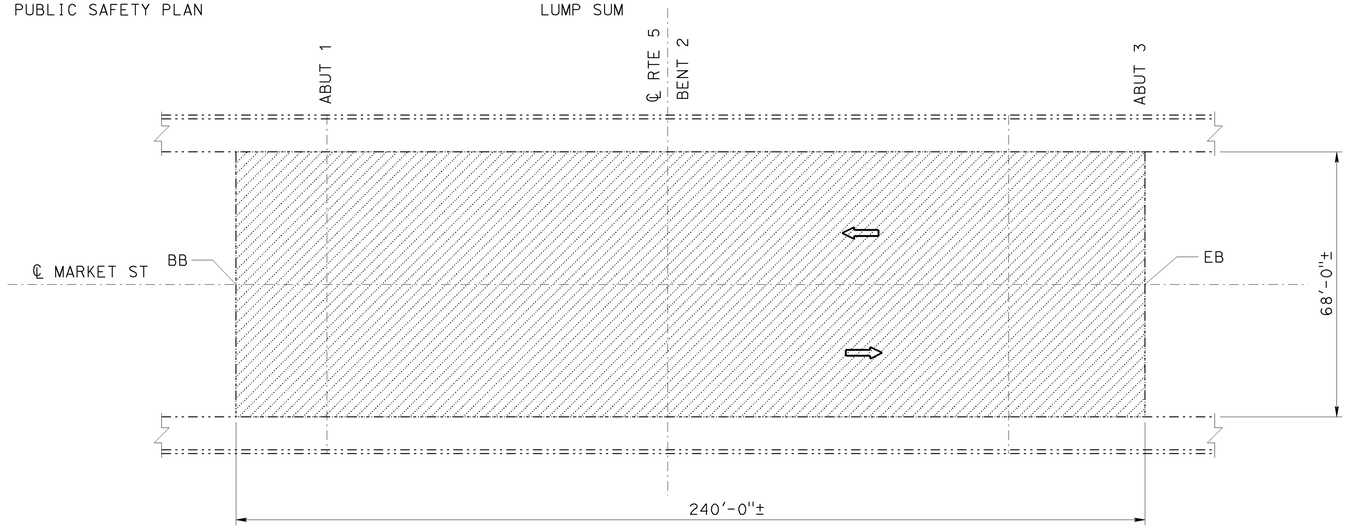
Indicates direction of traffic.

Indicates limits of prepare concrete bridge deck surface and treat existing bridge deck with high molecular weight methacrylate.

MARKET STREET OC BRIDGE NO. 57-0433

QUANTITIES

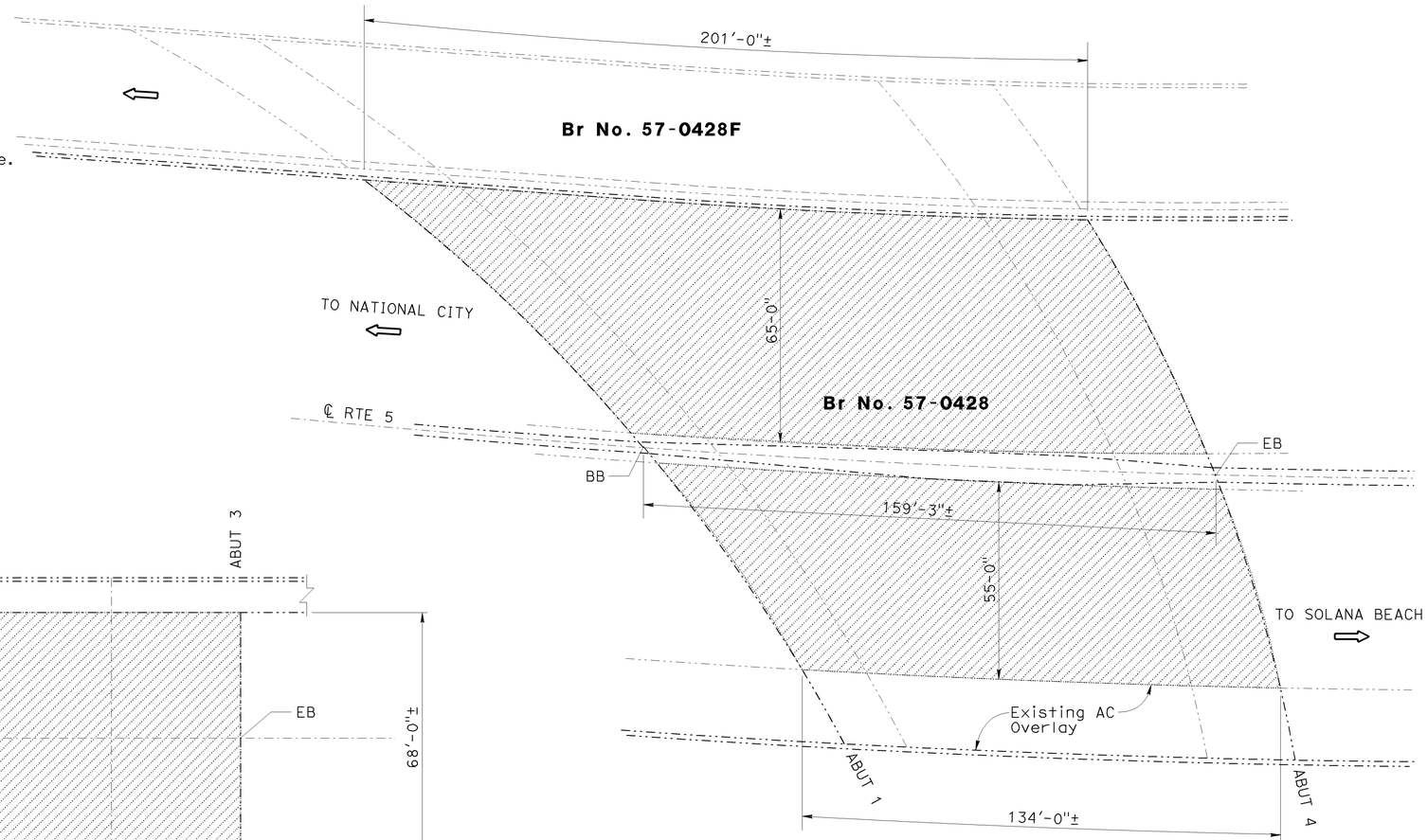
PREPARE CONCRETE BRIDGE DECK SURFACE	16,320	SQFT
TREAT BRIDGE DECK	16,320	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	205	GAL
PUBLIC SAFETY PLAN	LUMP	SUM



MARKET STREET OC

Br No. 57-0433, Rte 5, PM R14.89
1" = 20'

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.



PERSHING DRIVE UC

Br No. 57-0428, Rte 5, PM R15.41
1" = 20'

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Vinh Dang	CHECKED Ramesh Patel	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD		
	DETAILS	BY Tom Dang	CHECKED Vinh Dang	LAYOUT	BY Tom Dang	CHECKED Vinh Dang	
	QUANTITIES	BY Vinh Dang	CHECKED Ramesh Patel	SPECIFICATIONS	BY Dave Klein	PLANS AND SPECS COMPARED Dave Klein	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTE 5, 15, 805 BRIDGES
GENERAL PLAN NO. 2

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3489
PROJECT NUMBER & PHASE: 1100020270
CONTRACT NO.: 2M3201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
7/19/2011	7/28/2011			02	16

FILE => 11-2m3201-a-gp02.dgn

USERNAME => s129239 DATE PLOTTED => 24-JAN-2012 TIME PLOTTED => 08:44

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,15,805	Var	24	37

REGISTERED CIVIL ENGINEER — 11/14/11 DATE

01-30-12
PLANS APPROVAL DATE

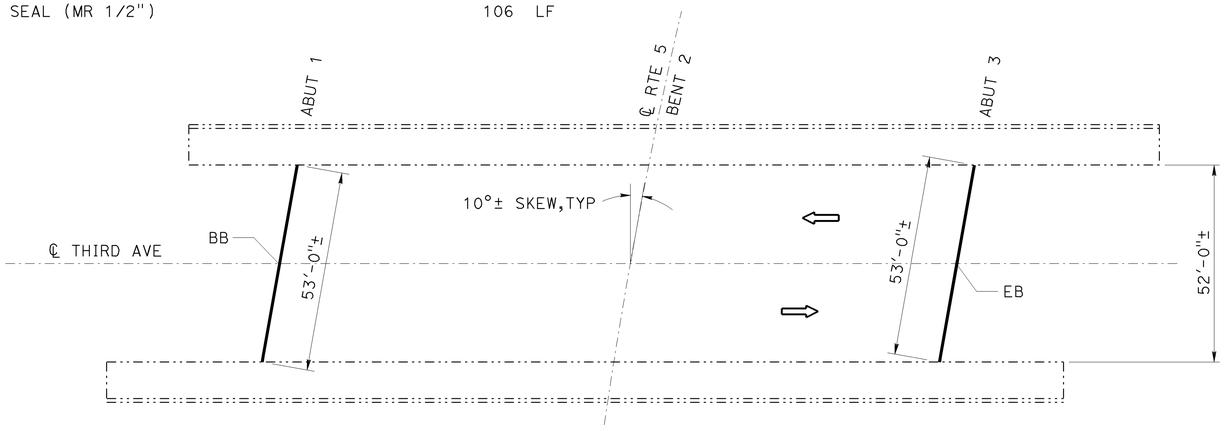
VINH DUC L. DANG No. C65096 Exp. 09/30/13 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

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

THIRD AVENUE OC BRIDGE NO. 57-0407

QUANTITIES

REMOVE UNSOUND CONCRETE	2	CF
CLEAN EXPANSION JOINT	106	LF
RAPID SETTING CONCRETE (PATCH)	2	CF
JOINT SEAL (MR 1/2")	106	LF



THIRD AVENUE OC

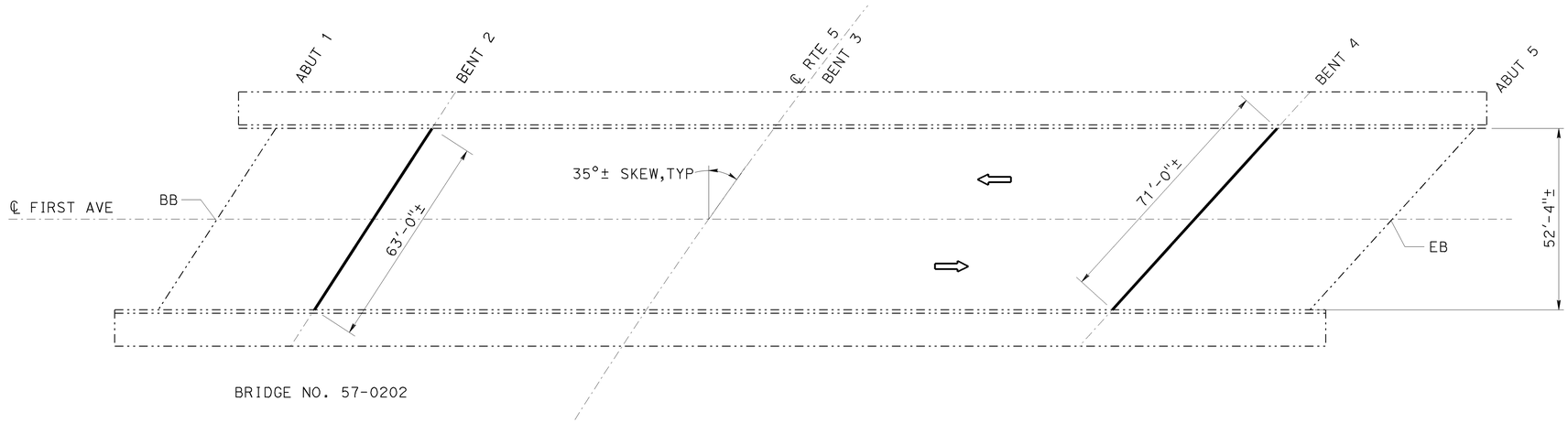
Br No. 57-0407, Rte 5, PM R16.47
1" = 20'

LEGEND:

Indicates existing.

Indicates direction of traffic.

Indicates location of clean expansion joint and placement of new joint seal. Prior to placement of new joint seal remove unsound concrete and patch with rapid setting concrete. See "JOINT SPALL REPAIR DETAIL" on "MISCELLANEOUS DETAILS NO. 2" sheet.



FIRST AVENUE OC BRIDGE NO. 57-0202

QUANTITIES

REMOVE UNSOUND CONCRETE	2	CF
CLEAN EXPANSION JOINT	134	LF
RAPID SETTING CONCRETE (PATCH)	2	CF
JOINT SEAL (MR 1 1/2")	134	LF

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

FIRST AVENUE OC

Br No. 57-0202, Rte 5, PM R16.59
1" = 20'

TONY D. BRAKE
DESIGN ENGINEER

DESIGN	BY Vinh Dang	CHECKED Ramesh Patel	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD			
DETAILS	BY Tom Dang	CHECKED Vinh Dang	LAYOUT	BY Tom Dang	CHECKED Vinh Dang		
QUANTITIES	BY Vinh Dang	CHECKED Ramesh Patel	SPECIFICATIONS	BY	PLANS AND SPECS COMPARED Dave Klein		

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTE 5, 15, 805 BRIDGES
GENERAL PLAN NO. 3

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3489
PROJECT NUMBER & PHASE: 1100020270 CONTRACT NO.: 2M3201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
7/19/2011	7/28/2011			03	16

FILE => 11-2m3201-a-gp03.dgn

USERNAME => s1292339 DATE PLOTTED => 24-JAN-2012 TIME PLOTTED => 08:14

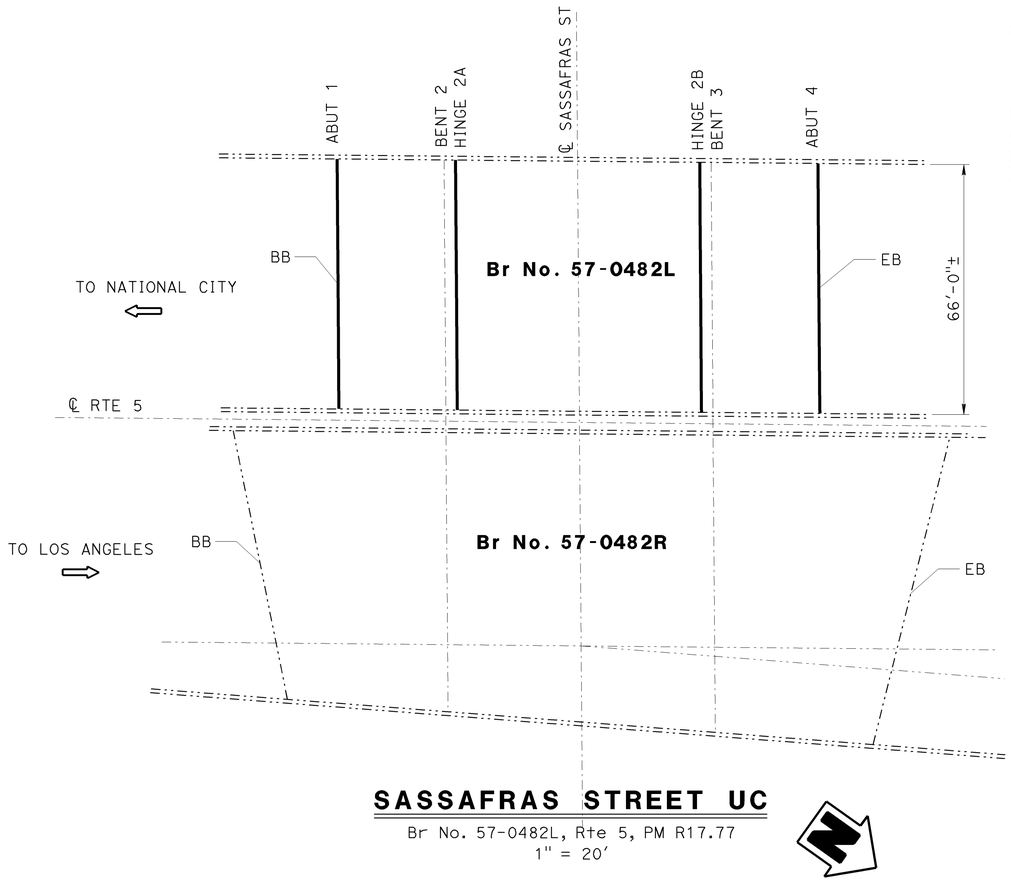
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,15,805	Var	25	37

REGISTERED CIVIL ENGINEER — 11/14/11 DATE

01-30-12
PLANS APPROVAL DATE

VINH DUC L. DANG
No. C65096
Exp. 09/30/13
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

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



SASSAFRAS STREET UC

Br No. 57-0482L, Rte 5, PM R17.77
1" = 20'

SASSAFRAS STREET UC — BRIDGE NO. 57-0482L

QUANTITIES

REMOVE UNSOUND CONCRETE	3	CF
CLEAN EXPANSION JOINT	264	LF
RAPID SETTING CONCRETE (PATCH)	3	CF
JOINT SEAL (MR 1/2")	264	LF

LEGEND:

Indicates existing.

Indicates direction of traffic.

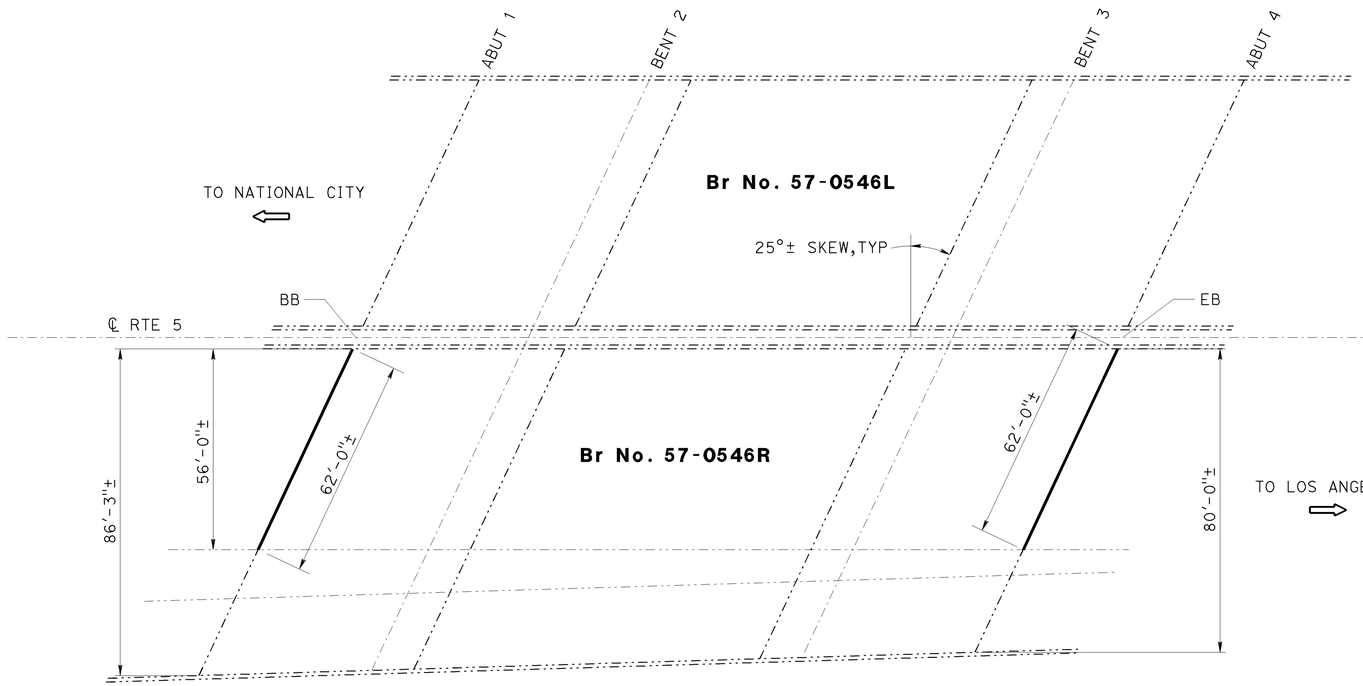
Indicates location of clean expansion joint and placement of new joint seal. Prior to placement of new joint seal remove unsound concrete and patch with rapid setting concrete. See "JOINT SPALL REPAIR DETAIL" on "MISCELLANEOUS DETAILS NO. 2" sheet.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

WASHINGTON STREET UC — BRIDGE NO. 57-0546R

QUANTITIES

REMOVE UNSOUND CONCRETE	2	CF
CLEAN EXPANSION JOINT	124	LF
RAPID SETTING CONCRETE (PATCH)	2	CF
JOINT SEAL (MR 1/2")	124	LF



WASHINGTON STREET UC

Br No. 57-0546R, Rte 5, PM R18.28
1" = 20'

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Vinh Dang	CHECKED Ramesh Patel	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD		
	DETAILS	BY Tom Dang	CHECKED Vinh Dang	LAYOUT	BY Tom Dang	CHECKED Vinh Dang	
	QUANTITIES	BY Vinh Dang	CHECKED Ramesh Patel	SPECIFICATIONS	BY Dave Klein	PLANS AND SPECS COMPARED Dave Klein	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTE 5, 15, 805 BRIDGES
GENERAL PLAN NO. 4

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3489
PROJECT NUMBER & PHASE: 1100020270
CONTRACT NO.: 2M3201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
7/19/2011	7/28/2011			04	16

FILE => 11-2m3201-a-gp04.dgn

USERNAME => s129239 DATE PLOTTED => 24-JAN-2012 TIME PLOTTED => 08:44

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,15,805	Var	26	37

REGISTERED CIVIL ENGINEER — 11/14/11 DATE

01-30-12
PLANS APPROVAL DATE

VINH DUC L. DANG
No. C65096
Exp. 09/30/13
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

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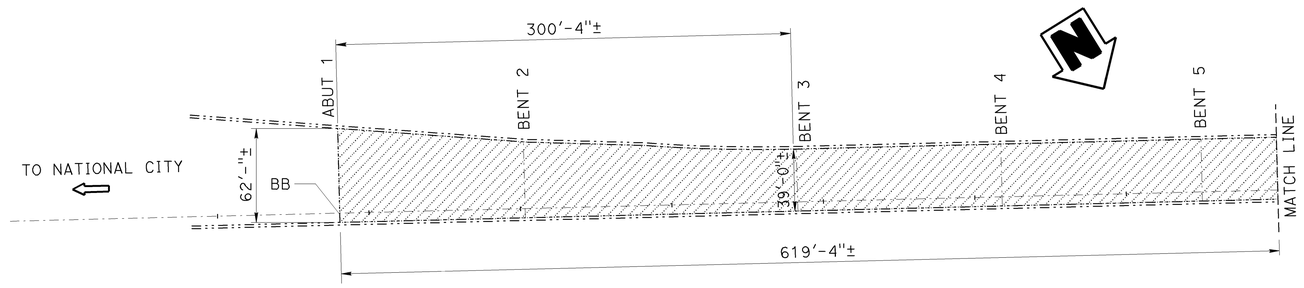


S15-S5 CONNECTOR OC BRIDGE NO. 57-0732F

QUANTITIES

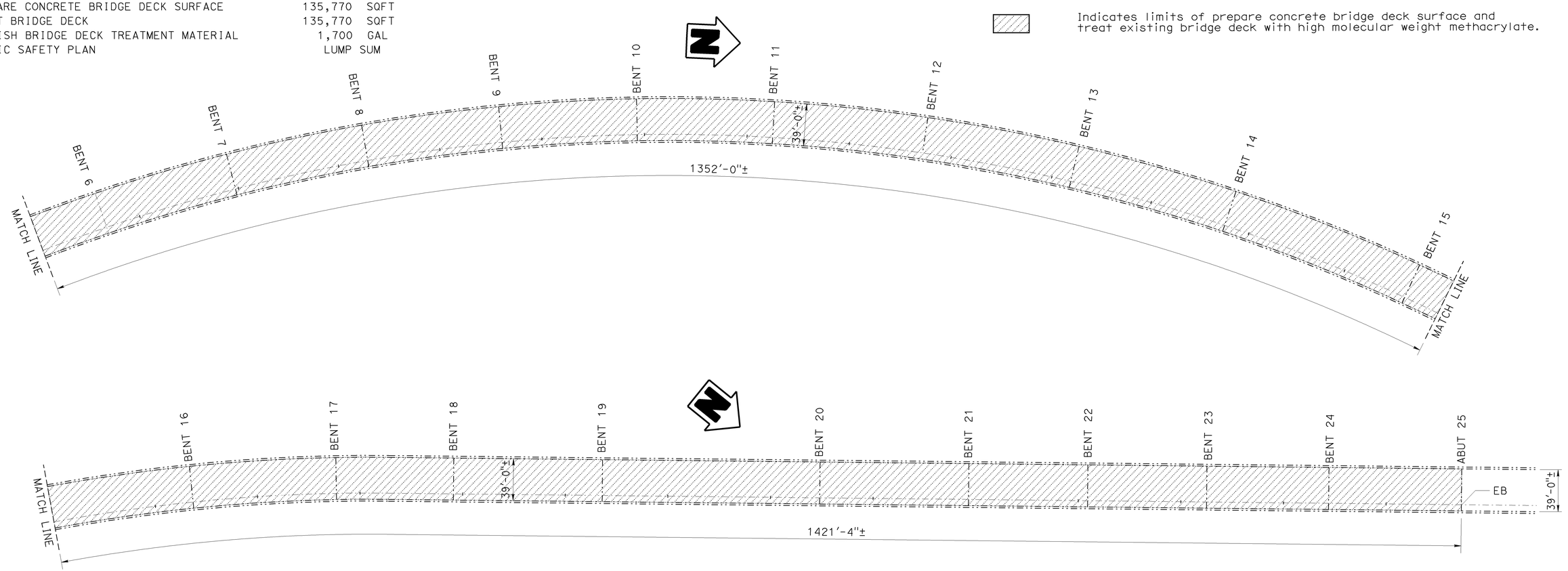
PREPARE CONCRETE BRIDGE DECK SURFACE	135,770	SQFT
TREAT BRIDGE DECK	135,770	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	1,700	GAL
PUBLIC SAFETY PLAN	LUMP SUM	

LEGEND:

Indicates existing.

Indicates direction of traffic.

Indicates limits of prepare concrete bridge deck surface and treat existing bridge deck with high molecular weight methacrylate.



NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

S15-S5 CONNECTOR OC

Br No. 57-0732F, Rte 15, PM R0.12
1" = 50'

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Vinh Dang	CHECKED Ramesh Patel	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO. Various POST MILE Varies	ROUTE 5, 15, 805 BRIDGES GENERAL PLAN NO. 5
	DETAILS	BY Tom Dang	CHECKED Vinh Dang	LAYOUT	BY Tom Dang	CHECKED Vinh Dang				
	QUANTITIES	BY Vinh Dang	CHECKED Ramesh Patel	SPECIFICATIONS	BY Dave Klein	PLANS AND SPECS COMPARED Dave Klein				

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3489
PROJECT NUMBER & PHASE: 1100020270 CONTRACT NO.: 2M3201

DISREGARD PRINTS BEARING EARLIER REVISION DATES → REVISION DATES 7/19/2011 7/28/2011

SHEET 05 OF 16

FILE => 11-2m3201-g-gp05.dgn

USERNAME => s1129239 DATE PLOTTED => 24-JAN-2012 TIME PLOTTED => 08:14

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,15,805	Var	27	37

REGISTERED CIVIL ENGINEER — 11/14/11 DATE

01-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — VINH DUC L. DANG — No. C65096 — Exp. 09/30/13 — CIVIL — STATE OF CALIFORNIA

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

LEGEND:

Indicates existing.

Indicates direction of traffic.

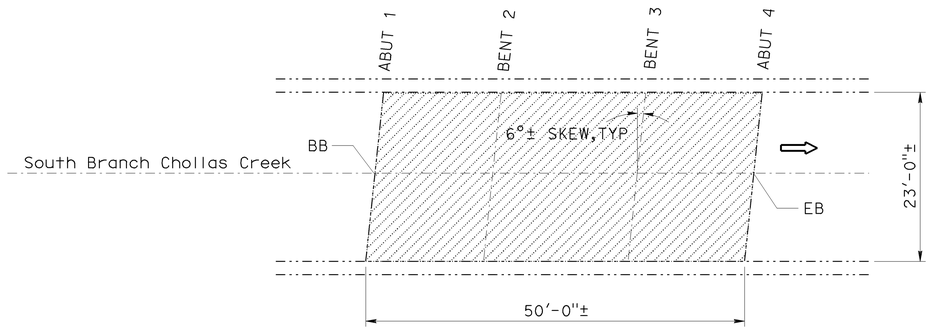
Indicates limits prepare concrete bridge deck surface and treat existing bridge deck with high molecular weight methacrylate.

Indicates location of clean expansion joint and placement of new joint seal. Prior to placement of new joint seal remove unsound concrete and patch with rapid setting concrete. See "JOINT SPALL REPAIR DETAIL" on "MISCELLANEOUS DETAILS NO. 2" sheet.

SOUTH BRANCH CHOLLAS CREEK BRIDGE NO. 57-0495S

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	1,150	SQFT
TREAT BRIDGE DECK	1,150	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	15	GAL
PUBLIC SAFETY PLAN	LUMP	SUM



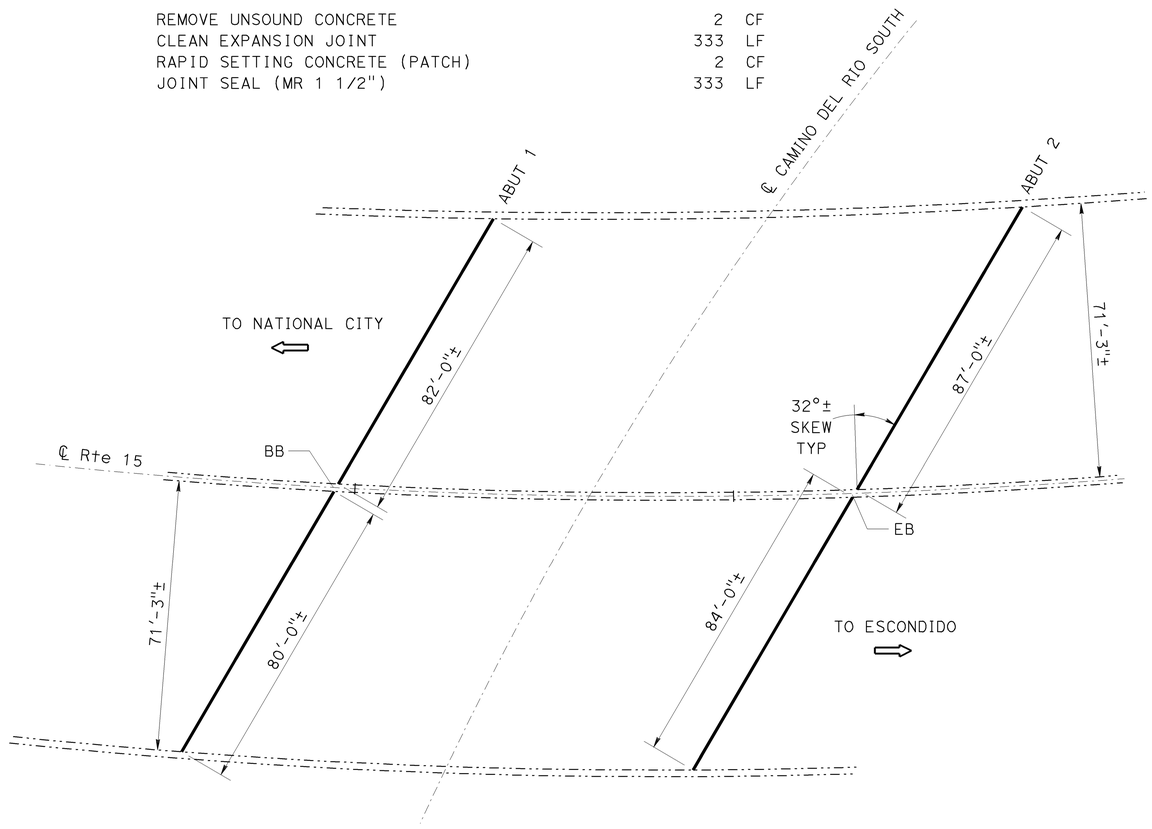
SOUTH BRANCH CHOLLAS CREEK

Br No. 57-0495S, Rte 15, PM 0.47
NO SCALE

CAMINO DEL RIO SOUTH UC BRIDGE NO. 57-0883

QUANTITIES

REMOVE UNSOUND CONCRETE	2	CF
CLEAN EXPANSION JOINT	333	LF
RAPID SETTING CONCRETE (PATCH)	2	CF
JOINT SEAL (MR 1 1/2")	333	LF



CAMINO DEL RIO SOUTH UC

Br No. 57-0883, Rte 15, PM R6.03
1" = 20'

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

DESIGN	BY Vinh Dang	CHECKED Ramesh Patel	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD			
DETAILS	BY Tom Dang	CHECKED Vinh Dang	LAYOUT	BY Tom Dang	CHECKED Vinh Dang		
QUANTITIES	BY Vinh Dang	CHECKED Ramesh Patel	SPECIFICATIONS	BY Dave Klein	PLANS AND SPECS COMPARED X Dave Klein		

TONY D. BRAKE
DESIGN ENGINEER

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTE 5, 15, 805 BRIDGES
GENERAL PLAN NO. 6

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3489
PROJECT NUMBER & PHASE: 1100020270
CONTRACT NO.: 2M3201

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES				SHEET	OF
7/19/2011	7/28/2011			06	16

FILE => 11-2m3201-a-gp06.dgn

USERNAME => s1292339 DATE PLOTTED => 24-JAN-2012 TIME PLOTTED => 08:44

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,15,805	Var	28	37

REGISTERED CIVIL ENGINEER — 11/14/11 DATE

01-30-12
PLANS APPROVAL DATE

VINH DUC L. DANG
No. C65096
Exp. 09/30/13
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

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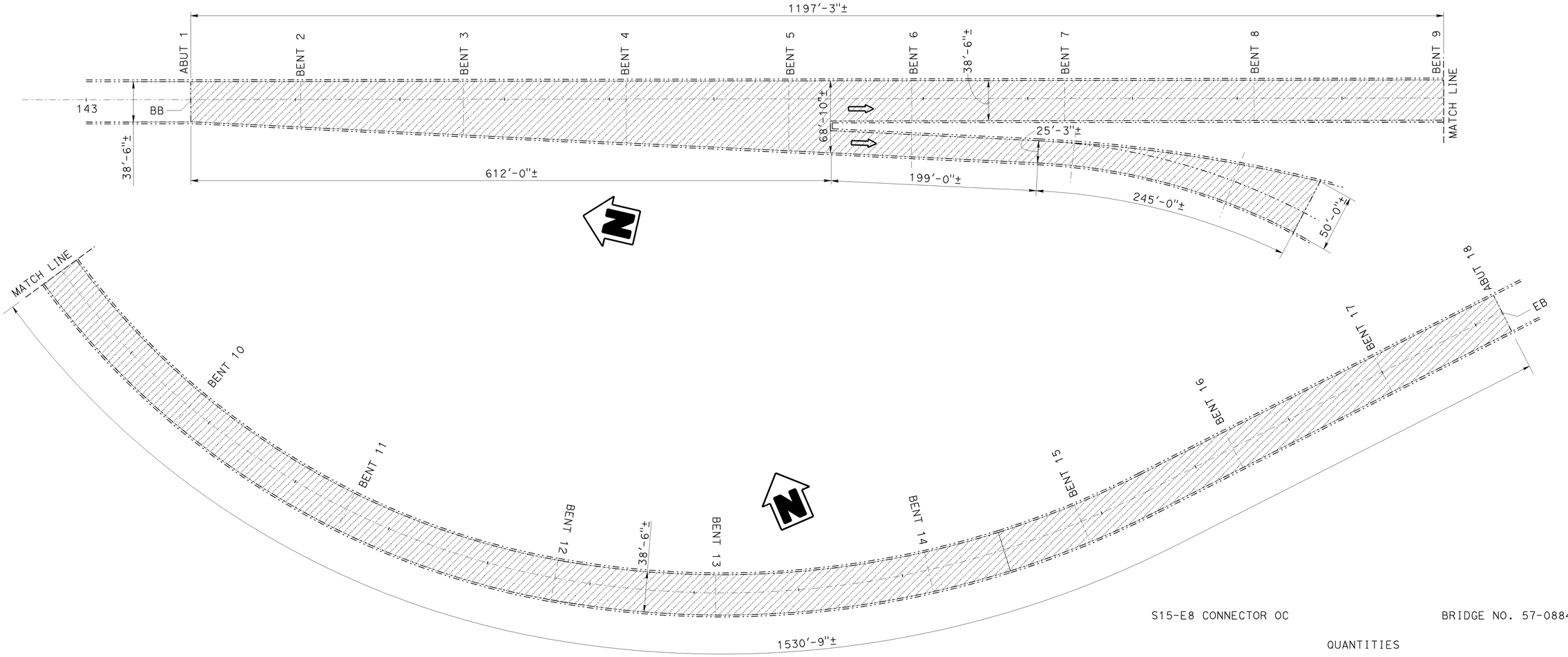
LEGEND:

Indicates existing.

Indicates direction of traffic.

Indicates limits prepare concrete bridge deck surface and treat existing bridge deck with high molecular weight methacrylate.



NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

S15-E8 CONNECTOR OC

Br No. 57-0884F, Rte 15, PM R6.06
1" = 50′

S15-E8 CONNECTOR OC — BRIDGE NO. 57-0884F

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	128,560	SQFT
TREAT BRIDGE DECK	128,560	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	1,610	GAL

TONY D. BRAKE
DESIGN ENGINEER

DESIGN	BY Vinh Dang	CHECKED Ramesh Patel	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD		
DETAILS	BY Tom Dang	CHECKED Vinh Dang	LAYOUT	BY Tom Dang	CHECKED Vinh Dang	
QUANTITIES	BY Vinh Dang	CHECKED Ramesh Patel	SPECIFICATIONS	BY Dave Klein	PLANS AND SPECS COMPARED Dave Klein	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTE 5, 15, 805 BRIDGES
GENERAL PLAN NO. 7

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3489
PROJECT NUMBER & PHASE: 1100020270
CONTRACT NO.: 2M3201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
7/19/2011	7/28/2011			07	16

FILE => 11-2m3201-a-gp07.dgn

USERNAME = s129239 DATE PLOTTED => 24-JAN-2012 TIME PLOTTED => 08:44

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,15,805	Var	29	37

REGISTERED CIVIL ENGINEER — 11/14/11 DATE

01-30-12
PLANS APPROVAL DATE

VINH DUC L. DANG
No. C65096
Exp. 09/30/13
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

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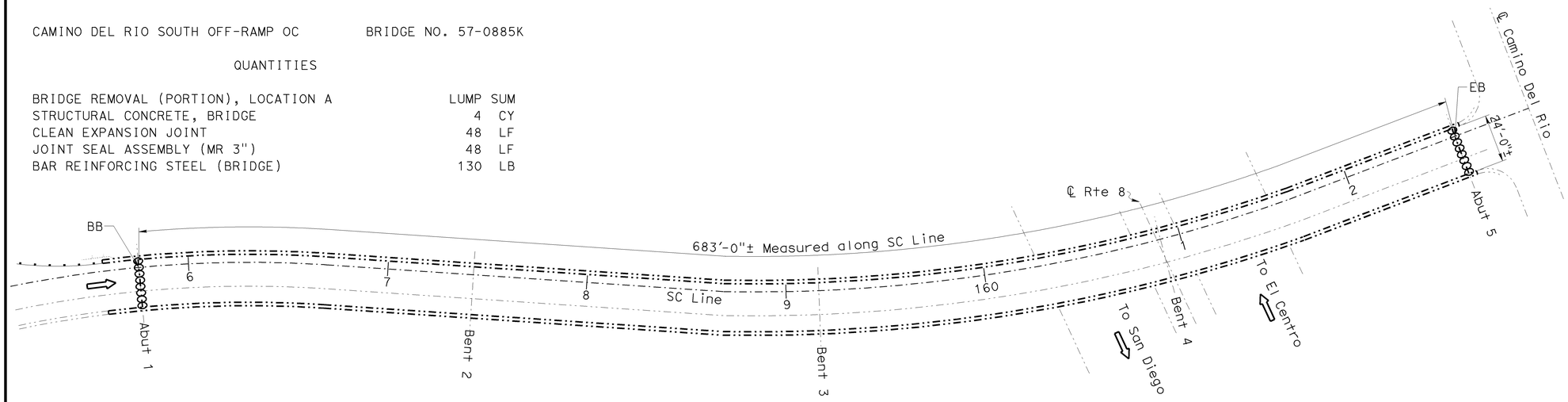
CAMINO DEL RIO SOUTH OFF-RAMP OC BRIDGE NO. 57-0885K

QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION A	LUMP	SUM
STRUCTURAL CONCRETE, BRIDGE	4	CY
CLEAN EXPANSION JOINT	48	LF
JOINT SEAL ASSEMBLY (MR 3")	48	LF
BAR REINFORCING STEEL (BRIDGE)	130	LB

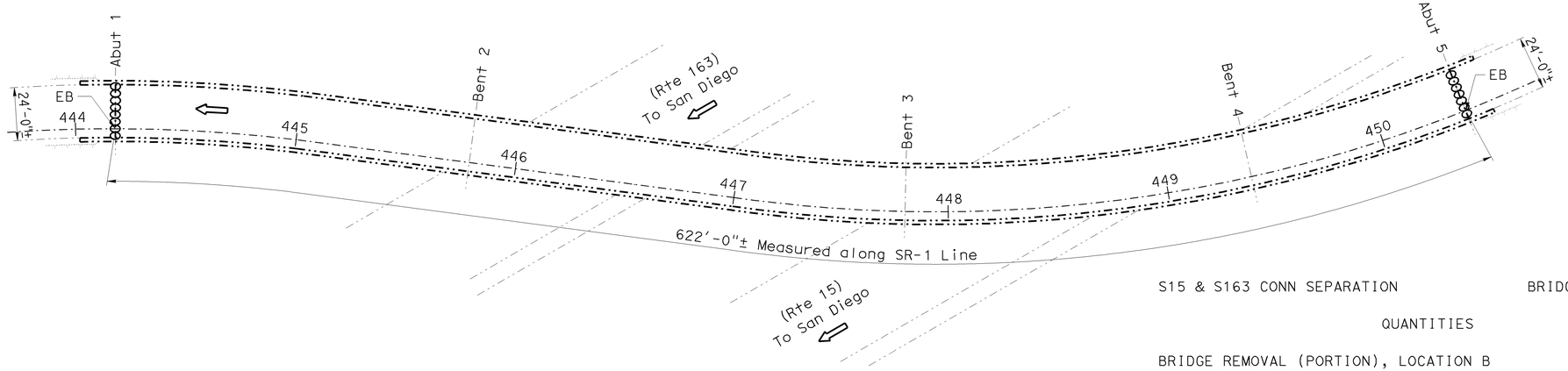


CAMINO DEL RIO SOUTH OFF-RAMP OC

Br No. 57-0885K, Rte 15, PM R6.12
Scale: 1"=30'

LEGEND:

- Indicates existing.
- Indicates direction of traffic.
- Indicates location of remove existing joint seal assembly, clean expansion joint and install new joint seal assembly. See "MISCELLANEOUS DETAILS NO. 1" and "JOINT SEAL DETAILS NO. 1" sheets.



S15 & S163 CONN SEPARATION

Br No. 57-0961F, Rte 15, PM M11.97
Scale: 1"=30'

S15 & S163 CONN SEPARATION BRIDGE NO. 57-0961F

QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION B	LUMP	SUM
STRUCTURAL CONCRETE, BRIDGE	4	CY
CLEAN EXPANSION JOINT	48	LF
JOINT SEAL ASSEMBLY (MR 2 1/2")	48	LF
BAR REINFORCING STEEL (BRIDGE)	130	LB

NOTE:
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TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Vinh Dang	CHECKED Ramesh Patel	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD		
	DETAILS	BY Tom Dang	CHECKED Vinh Dang	LAYOUT	BY Tom Dang	CHECKED Vinh Dang	
	QUANTITIES	BY Vinh Dang	CHECKED Ramesh Patel	SPECIFICATIONS	BY Dave Klein	PLANS AND SPECS COMPARED Dave Klein	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTE 5, 15, 805 BRIDGES
GENERAL PLAN NO. 8

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3489
PROJECT NUMBER & PHASE: 1100020270 CONTRACT NO.: 2M3201

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES				SHEET	OF
7/19/2011	7/28/2011			08	16

FILE =>: 11-2m3201-a-gp08.dgn

USERNAME => s1292239 DATE PLOTTED => 24-JAN-2012 TIME PLOTTED => 08:44

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,15,805	Var	30	37

REGISTERED CIVIL ENGINEER — 11/14/11 DATE

01-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — VINH DUC L. DANG — No. C65096 — Exp. 09/30/13 — CIVIL — STATE OF CALIFORNIA

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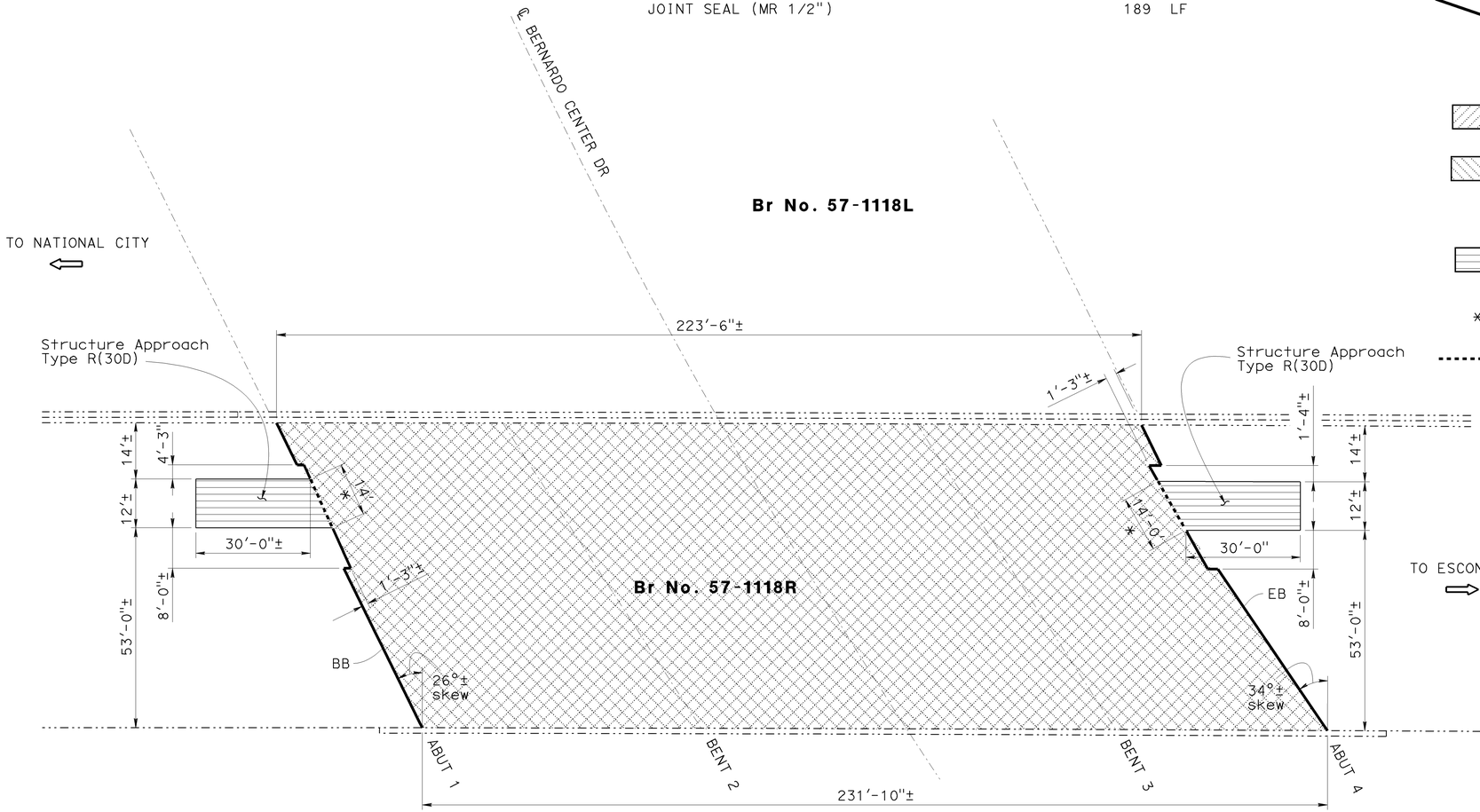
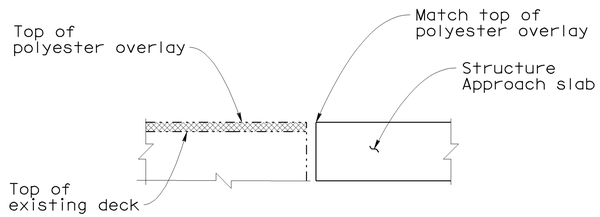
BERNARDO CENTER DRIVE UC — BRIDGE NO. 57-1118R

QUANTITIES		
REMOVE ASPHALT CONCRETE SURFACING	17,780	SQFT
REMOVE UNSOUND CONCRETE	46	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	17,780	SQFT
AGGREGATE BASE (APPROACH SLAB)	3	CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	31	CY
PAVING NOTCH EXTENSION	21	CF
CLEAN EXPANSION JOINT	161	LF
RAPID SETTING CONCRETE (PATCH)	46	CF
FURNISH POLYESTER CONCRETE OVERLAY	1,115	CF
PLACE POLYESTER CONCRETE OVERLAY	17,780	SQFT
JOINT SEAL (MR 1/2")	189	LF



LEGEND:

- Indicates existing.
- Indicates direction of traffic.
- Indicates location of clean expansion joint and placement of new joint seal. Prior to placement of new joint seal remove unsound concrete and patch with rapid setting concrete. See "JOINT SPALL REPAIR DETAIL" on "MISCELLANEOUS DETAILS NO. 2" sheet.
- Indicates limits of removal of existing ¾"± thick asphalt concrete overlay and prepare concrete bridge deck surface.
- Indicates limits of furnish and place new ¾"± thick polyester concrete overlay. Prior to placing new polyester concrete overlay, remove unsound concrete and patch with rapid setting concrete. Polyester concrete shall be placed in one lift.
- Indicates limits of remove existing PCC slabs and construct new structure approach slabs Type R(30D). See "STRUCTURE APPROACH TYPE R(30D)" sheet.
- * Indicates limits of paving notch.
- Indicates location of placement of new joint seal.



JOINT DETAIL

NOTE:
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BERNARDO CENTER DRIVE UC

Br No. 57-1118R, Rte 15, PM M22.94
NO SCALE

TONY D. BRAKE
DESIGN ENGINEER

DESIGN	BY Vinh Dang	CHECKED Ramesh Patel	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
DETAILS	BY Tom Dang	CHECKED Vinh Dang	LAYOUT	BY Tom Dang	CHECKED Vinh Dang
QUANTITIES	BY Vinh Dang	CHECKED Ramesh Patel	SPECIFICATIONS	BY Dave Klein	PLANS AND SPECS COMPARED Dave Klein

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTE 5, 15, 805 BRIDGES
GENERAL PLAN NO. 9

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3489
PROJECT NUMBER & PHASE: 1100020270
CONTRACT NO.: 2M3201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
7/19/2011	7/28/2011			09	16

FILE => 11-2m3201-a-gp09.dgn

USERNAME => s1292339 DATE PLOTTED => 24-JAN-2012 TIME PLOTTED => 08:14

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,15,805	Var	31	37

REGISTERED CIVIL ENGINEER — 11/14/11 DATE

VINH DUC L. DANG No. C65096 Exp. 09/30/13 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

01-30-12
PLANS APPROVAL DATE

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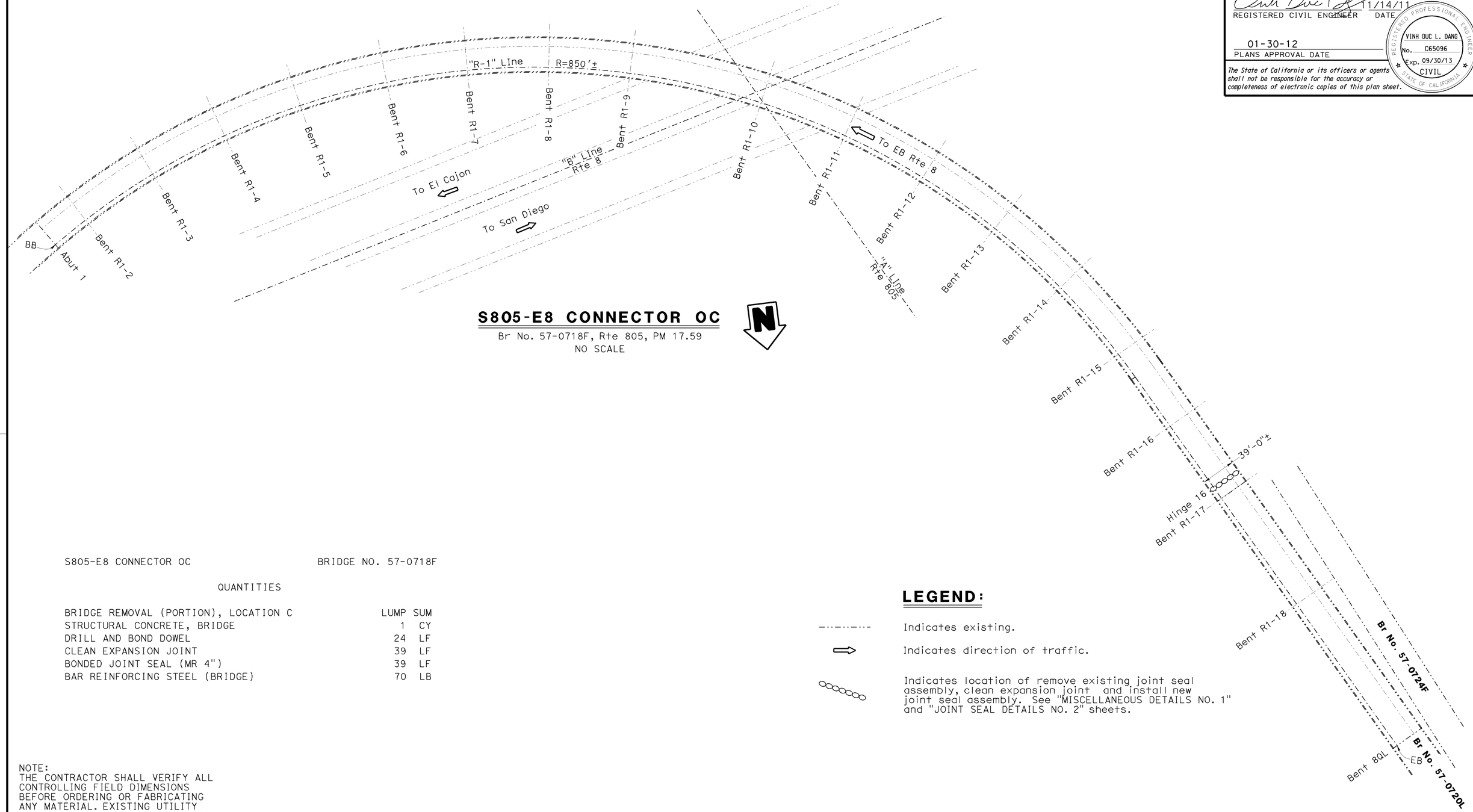

S805-E8 CONNECTOR OC

Br No. 57-0718F, Rte 805, PM 17.59
NO SCALE

S805-E8 CONNECTOR OC BRIDGE NO. 57-0718F

QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION C	LUMP	SUM
STRUCTURAL CONCRETE, BRIDGE	1	CY
DRILL AND BOND DOWEL	24	LF
CLEAN EXPANSION JOINT	39	LF
BONDED JOINT SEAL (MR 4")	39	LF
BAR REINFORCING STEEL (BRIDGE)	70	LB

LEGEND:

Indicates existing.

Indicates direction of traffic.

Indicates location of remove existing joint seal assembly, clean expansion joint and install new joint seal assembly. See "MISCELLANEOUS DETAILS NO. 1" and "JOINT SEAL DETAILS NO. 2" sheets.

NOTE:
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DESIGN	BY Vinh Dang	CHECKED Ramesh Patel	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD		
DETAILS	BY Tom Dang	CHECKED Vinh Dang	LAYOUT	BY Tom Dang	CHECKED Vinh Dang	
QUANTITIES	BY Vinh Dang	CHECKED Ramesh Patel	SPECIFICATIONS	BY Dave Klein	PLANS AND SPECS COMPARED Dave Klein	

TONY D. BRAKE
DESIGN ENGINEER

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTE 5, 15, 805 BRIDGES
GENERAL PLAN NO. 10

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3489
PROJECT NUMBER & PHASE: 1100020270 CONTRACT NO.: 2M3201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
7/19/2011	7/28/2011			10	16

FILE => 11-2m3201-a-gp10.dgn

USERNAME = s129239 DATE PLOTTED => 24-JAN-2012 TIME PLOTTED => 08:44

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,15,805	Var	32	37

REGISTERED CIVIL ENGINEER — 11/14/11 DATE

VINH DUC L. DANG No. C65096 Exp. 09/30/13 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

01-30-12
PLANS APPROVAL DATE

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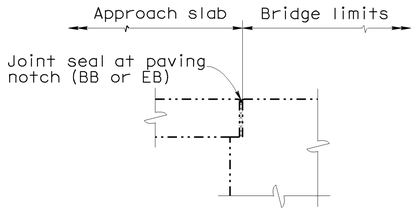
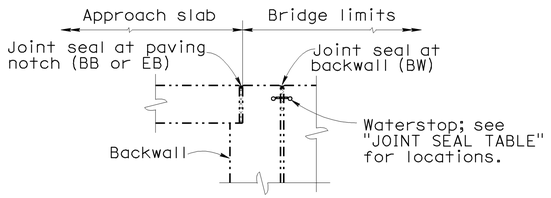
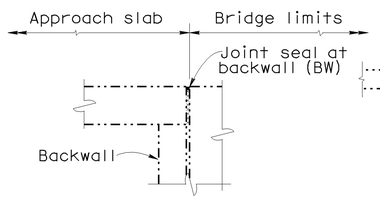


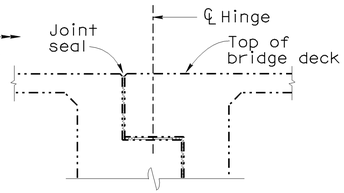
DIAPHRAGM ABUTMENT



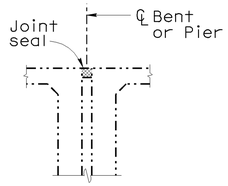
ABUTMENT WITH BACKWALL AND PAVING NOTCH



ABUTMENT WITH BACKWALL



HINGE



BENT OR PIER

JOINT SEAL LOCATION

NO SCALE

JOINT SEAL TABLE

BRIDGE NAME	BRIDGE NUMBER	LOCATION		MINIMUM "MR" (INCHES)	APPROX LENGTH (LF)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXP JOINT (INCHES)	REMOVE UNSOUND CONCRETE (CF)	RAPID SETTING CONCRETE PATCH (CF)
MAIN STREET UC	57-0434	ABUT 4	PN	1/2	280	NO	6	2	2
		ABUT 1	PN	1/2	306	NO	6		
30TH STREET POC	57-0440	ABUT 1	PN	1/2	8	NO	6	2	2
		ABUT 3	PN	1/2	8	NO	6		
THIRD AVENUE OC	57-0407	ABUT 1	PN	1/2	53	NO	6	2	2
		ABUT 3	PN	1/2	53	NO	6		
FIRST AVENUE OC	57-0202	BENT 2	PN	1 1/2	63	NO	12	2	2
		BENT 4	PN	1 1/2	71	NO	12		
WASHINGTON STREET UC	57-0546R	ABUT 1	PN	1/2	62	NO	6	2	2
		ABUT 4	PN	1/2	62	NO	6		
SASSAFRAS STREET UC	57-0482L	ABUT 1	PN	1/2	66	NO	6	3	3
		HINGE 2A	DJ	1/2	66	NO	6		
		HINGE 2B	DJ	1/2	66	NO	6		
		ABUT 4	PN	1/2	66	NO	6		
CAMINO DEL RIO SOUTH UC	57-0883	ABUT 1	PN	1 1/2	162	NO	12	2	2
		ABUT 2	PN	1 1/2	171	NO	12		
CAMINO DEL RIO SOUTH OFF-RAMP OC	57-0885K	ABUT 1	BW	3**	24	NO	12	———	———
		ABUT 5	BW	3**	24	NO	12		
S15 & S163 CONN SEPARATION	57-0961F	ABUT 1	BW	2 1/2**	24	NO	12	———	———
		ABUT 5	BW	2 1/2**	24	NO	12		
BERNARDO CENTER DRIVE UC	57-1118R	ABUT 1	PN	1/2	91	NO	6	2	2
		ABUT 5	PN	1/2	98	NO	6		
S805-E8 CONNECTOR OC	57-0718F	HINGE 16	DJ	4*	39	YES	12	———	———

* Use bonded joint seal after joint reconstruction.
** Indicates joint seal assembly

PN = Paving notch
BW = Backwall
DJ = Deck Joint

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

NOTES:

The following notes apply to JOINT SEAL TYPE A:

Install Joint Seal (MR = ½") or Silicone Joint Seal 3" up into curb or barrier rail on the low side of the deck where deck joint aligns with curb or barrier rail joint.

For details not shown see RSP B6-21 sheet.

The following notes apply to JOINT SEAL TYPE B:

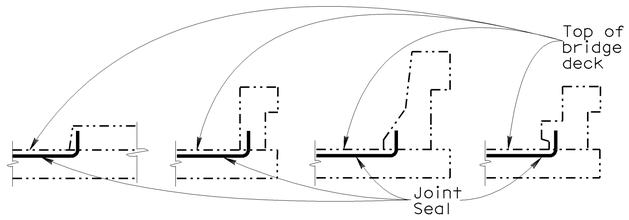
1) Seal must satisfy both minimum Movement Rating (MR) and minimum W1 requirements.

2) Minimum W1 is the calculated maximum width of the joint based on field measurements. After the joints have been cleaned, minimum W1 is to be recalculated by the Engineer.

3) W1 shall be the smaller of the values determined as follows:
   A) 0.85 times the manufacturer's designed minimum uncompressed width of the seal.
   B) The width of the seal on the third successive test cycle of the pressure deflection test, when compressed to an average pressure of 3.0 PSI.

4) Bend Type B joint seal 6 inches up into curb or rail on the low side of the deck where deck joint matches curb or rail joint.

For details not shown see RSP B6-21 sheet.



BARRIER RAIL

JOINT SEAL AT LOW SIDE OF DECK

Note: Details shown for illustration purposes only.

For use only where deck joint matches the sidewalk, curb or barrier rail joint.

DESIGN	BY Vinh Dang	CHECKED Ramesh Patel	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY Tom Dang	CHECKED Vinh Dang	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN
QUANTITIES	BY Vinh Dang	CHECKED Ramesh Patel	BRIDGE NO. Various / POST MILE Varies

ROUTE 5, 15, 805 BRIDGES
MISCELLANEOUS DETAILS NO. 1

STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3489
PROJECT NUMBER & PHASE: 1100020270
CONTRACT NO.: 2M3201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
7/19/2011	7/28/2011			11	16

FILE => 11-2m3201-b-miscdt101.dgn

USERNAME => s129239 DATE PLOTTED => 24-JAN-2012 TIME PLOTTED => 08:44

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,15,805	Var	33	37

11/14/11
REGISTERED CIVIL ENGINEER — DATE

VINH DUC L. DANG
No. C65096
Exp. 09/30/13
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

01-30-12
PLANS APPROVAL DATE

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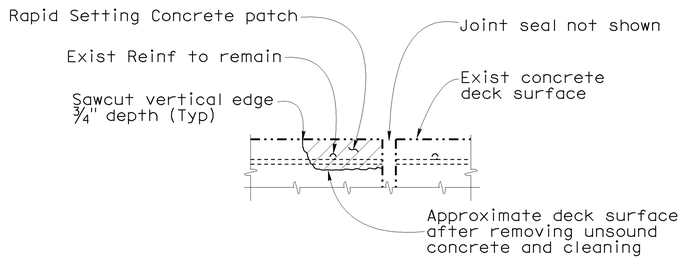
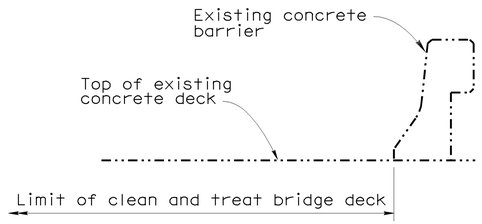


JOINT SPALL REPAIR DETAIL

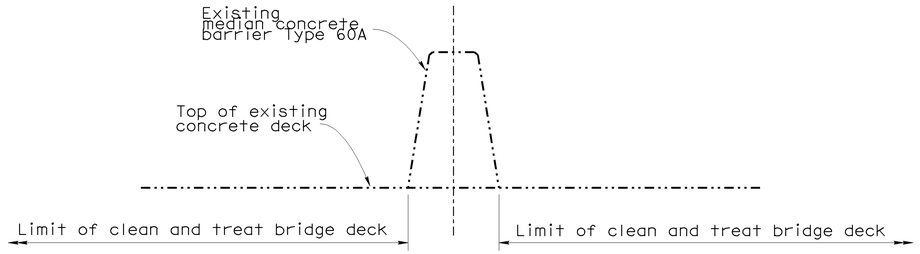
Location will be determined by the Engineer. Reinforcement may be encountered during deck concrete removal and is to remain undamaged.

DECK REPAIR NOTES:

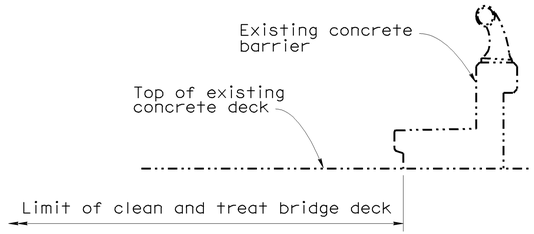
1. Existing reinforcement shall be protected in place during unsound concrete removal and patching operations.
2. It is responsibility of the Contractor to repair any reinforcement that is accidentally cut by saw cutting operations.
3. When existing transverse reinforcement is exposed in the deck surface, saw cutting may be waived with the approval of the Engineer.
4. The saw cut depth shall not exceed ¾ inch or the concrete cover over the top steel reinforcing bars, whichever is less.
5. Remove unsound Portland Cement concrete and unsound concrete patches to expose sound, hard concrete substrate. Replace original deck surface with rapid setting concrete patch.



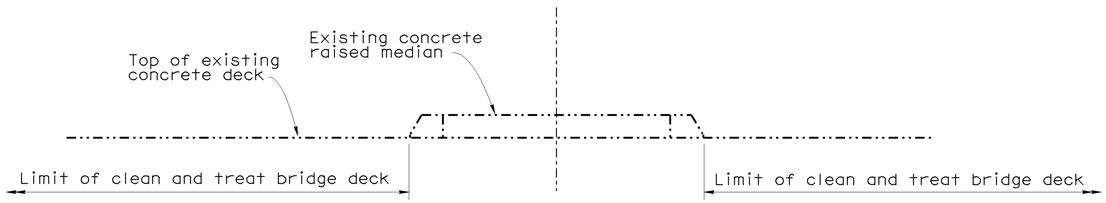
EOD BARRIER



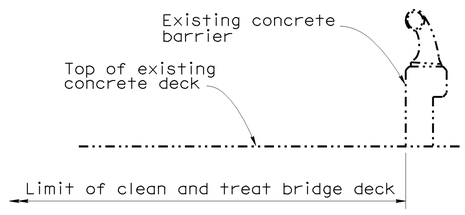
MEDIAN BARRIER



SIDEWALK BARRIER TYPE 2



RAISED MEDIAN



BARRIER TYPE 1

NOTE:
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TYPICAL LIMITS OF DECK WORK

NO SCALE

DESIGN	BY Vinh Dang	CHECKED Ramesh Patel	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO. Various
DETAILS	BY Tom Dang	CHECKED Vinh Dang			POST MILE Varies
QUANTITIES	BY Vinh Dang	CHECKED Ramesh Patel			

ROUTE 5, 15, 805 BRIDGES
MISCELLANEOUS DETAILS NO. 2

STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3489
PROJECT NUMBER & PHASE: 1100020270
CONTRACT NO.: 2M3201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
7/19/2011	7/28/2011			12	16

FILE => 11-2m3201-b-miscdt02.dgn

USERNAME => s129239 DATE PLOTTED => 24-JAN-2012 TIME PLOTTED => 08:44

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,15,805	Var	34	37

REGISTERED CIVIL ENGINEER — 11/14/11 DATE

VINH DUC L. DANG No. C65096 Exp. 09/30/13 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

01-30-12
PLANS APPROVAL DATE

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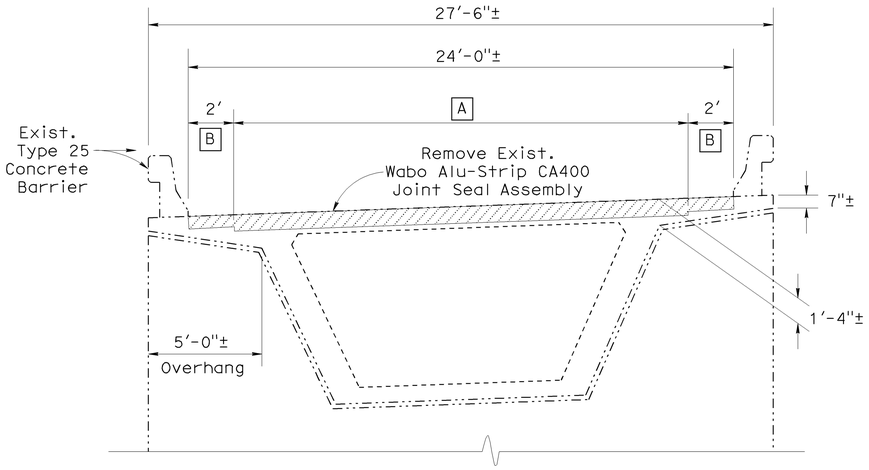


TYPICAL SECTION

Br No. 57-0961F
Abutments 1 and 5
NO SCALE

TEMPORARY DECKING DESIGN LOADING

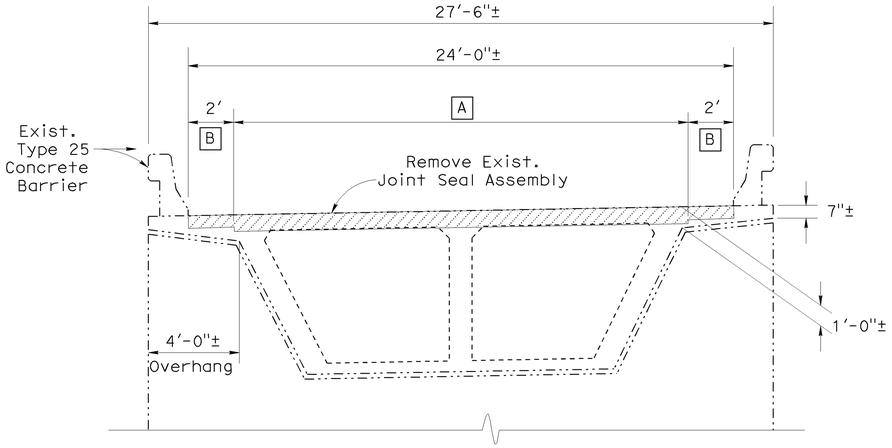
1. Moment demand per foot = 3800 lbs-ft/ft
2. For steel plate systems:
   a. anchor bolt shear per foot = 2700 lbs/ft
   b. anchor bolt tension = 4225 lbs
   c. maximum anchor bolt spacing = 1.0 ft

JOINT SEAL ASSEMBLY REMOVAL DEPTH

BRIDGE	LOCATION	"H"
57-0885K	A	10"
	B (2' to face of barrier)	8"
57-0961F	A	10"
	B (2' to face of barrier)	8"

LEGEND:

- Indicates existing.
- Indicates limits of bridge removal (portion). Existing reinforcements to remain.
- Indicates limits of structural concrete, bridge.



TYPICAL SECTION

Br No. 57-0885K
Abutment 1 and 5
NO SCALE

NOTE:
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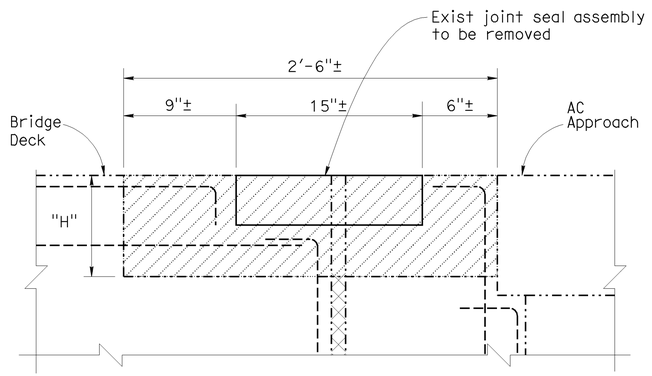
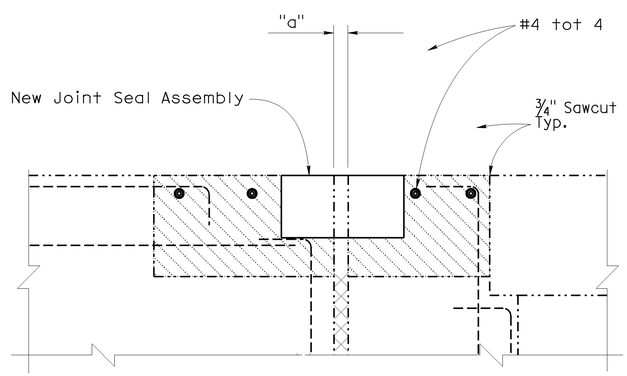


EXISTING



RECONSTRUCTION

JOINT SEAL ASSEMBLY REPLACEMENT

NO SCALE

1. For "a" dimension, see "JOINT SEAL ASSEMBLY (MAXIMUM MOVEMENT RATING=4")" sheet.

DESIGN	BY Vinh Dang	CHECKED Ramesh Patel	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO. Various
DETAILS	BY Tom Dang	CHECKED Vinh Dang			POST MILE Varies
QUANTITIES	BY Vinh Dang	CHECKED Ramesh Patel			

ROUTE 5, 15, 805 BRIDGES
JOINT SEAL DETAILS NO. 1

STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3489
PROJECT NUMBER & PHASE: 1100020270
CONTRACT NO.: 2M3201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
7/19/2011	7/28/2011			13	16

FILE => 11-2m3201-c-jtsdt101.dgn

USERNAME => s129239 DATE PLOTTED => 24-JAN-2012 TIME PLOTTED => 08:44

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,15,805	Var	35	37

REGISTERED CIVIL ENGINEER — 11/14/11 DATE

01-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — VINH DUC L. DANG — No. C65096 — Exp. 09/30/13 — CIVIL — STATE OF CALIFORNIA

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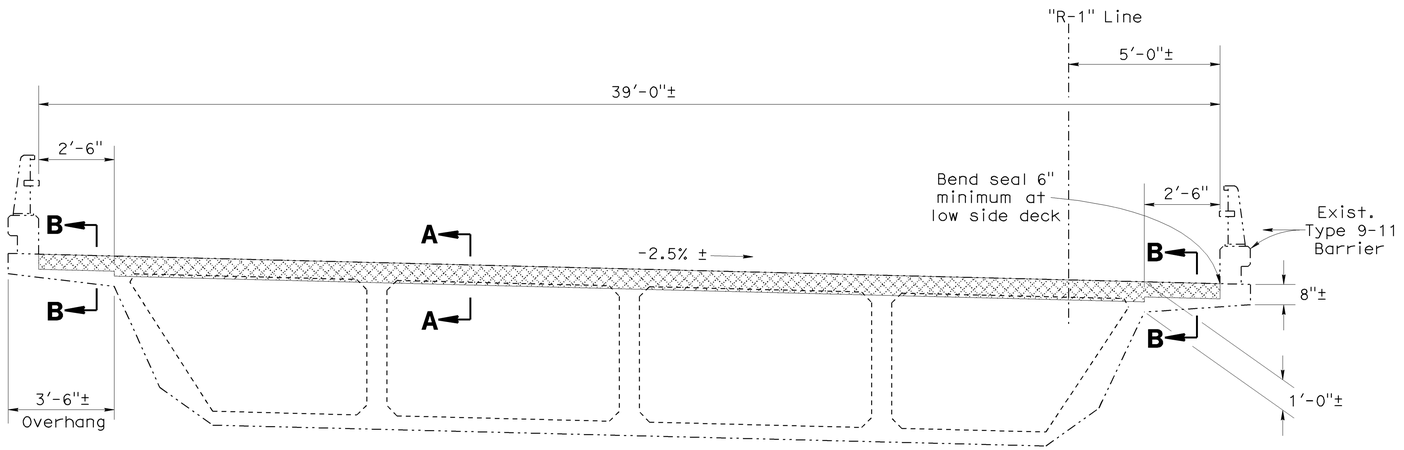
LEGEND:

Indicates existing.

Indicates limits of remove existing joint seal, clean expansion joint, and placement of new bonded joint seal. Prior to placement of new joint seal reconstruct existing joint to limits shown.

Indicates limits of bridge removal (portion). Existing reinforcement to remain in place and undamaged.

Indicates limits of structural concrete, bridge.

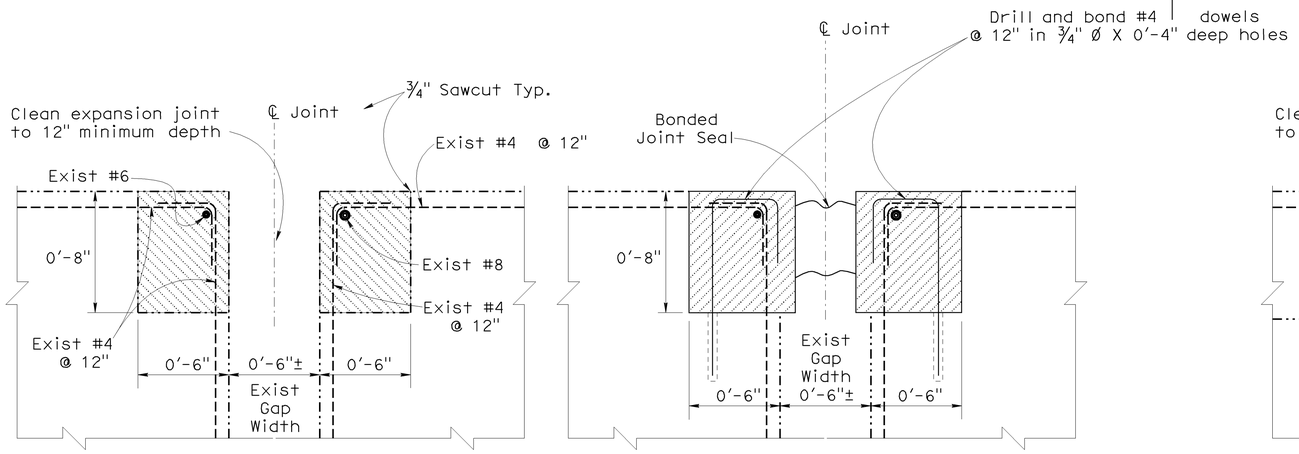


TYPICAL SECTION

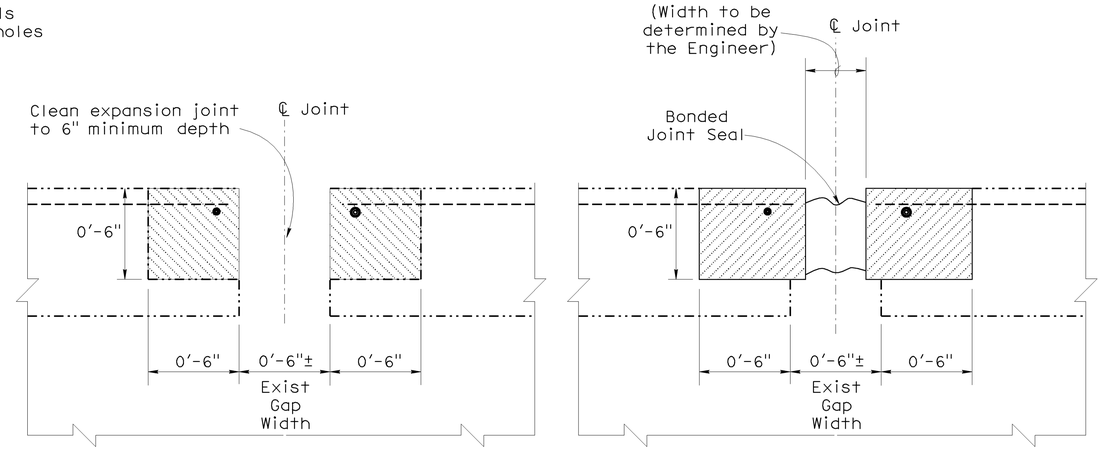
Br No. 57-0718F
Hinge 16
NO SCALE

TEMPORARY DECKING DESIGN LOADING

1. Moment demand per foot = 3800 lbs-ft/ft
2. For steel plate systems:
   a. anchor bolt shear per foot = 2700 lbs/ft
   b. anchor bolt tension = 4225 lbs
   c. maximum anchor bolt spacing = 1.0 ft



EXISTING AND REMOVAL — RECONSTRUCTION



EXISTING AND REMOVAL — RECONSTRUCTION

NOTE:
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SECTION A-A

NO SCALE

SECTION B-B

NO SCALE

DESIGN	BY Vinh Dang	CHECKED Ramesh Patel	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO. Various
DETAILS	BY Tom Dang	CHECKED Vinh Dang			POST MILE Varies
QUANTITIES	BY Vinh Dang	CHECKED Ramesh Patel			

ROUTE 5, 15, 805 BRIDGES
JOINT SEAL DETAILS NO. 2

STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3489
PROJECT NUMBER & PHASE: 1100020270
CONTRACT NO.: 2M3201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
7/19/2011	7/28/2011			14	16

FILE => 11-2m3201-c-jtsdt102.dgn

USERNAME => s129239 DATE PLOTTED => 24-JAN-2012 TIME PLOTTED => 08:44

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,15,805	Var	36	37

REGISTERED CIVIL ENGINEER — 11/14/11 DATE

VINH DUC L. DANG No. C65096 Exp. 09/30/13 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

01-30-12
PLANS APPROVAL DATE

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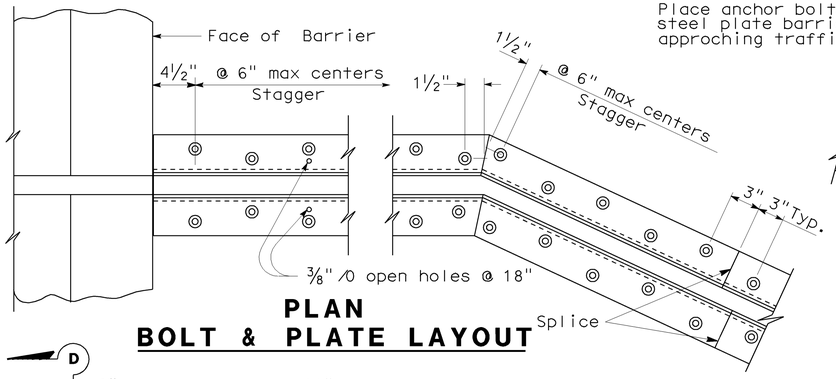
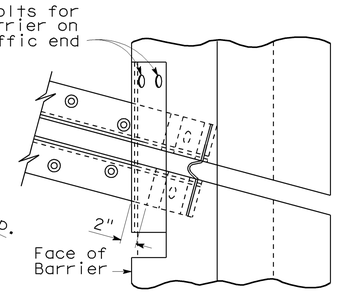
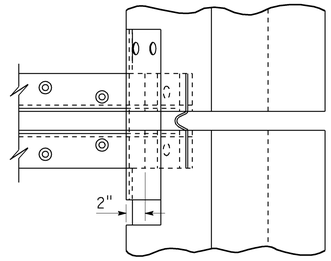


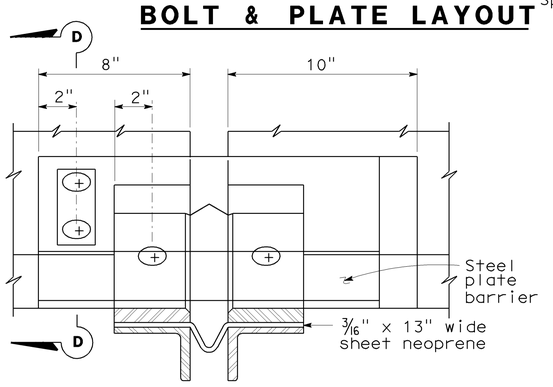
PLAN
BOLT & PLATE LAYOUT



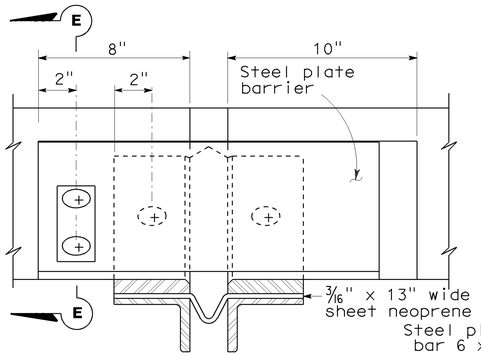
SKEW ≤ 20°



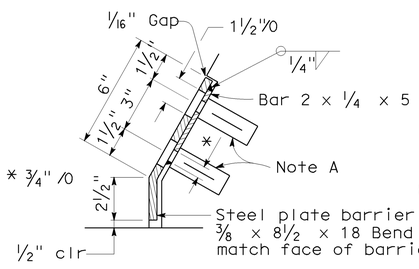
SKEW > 20°



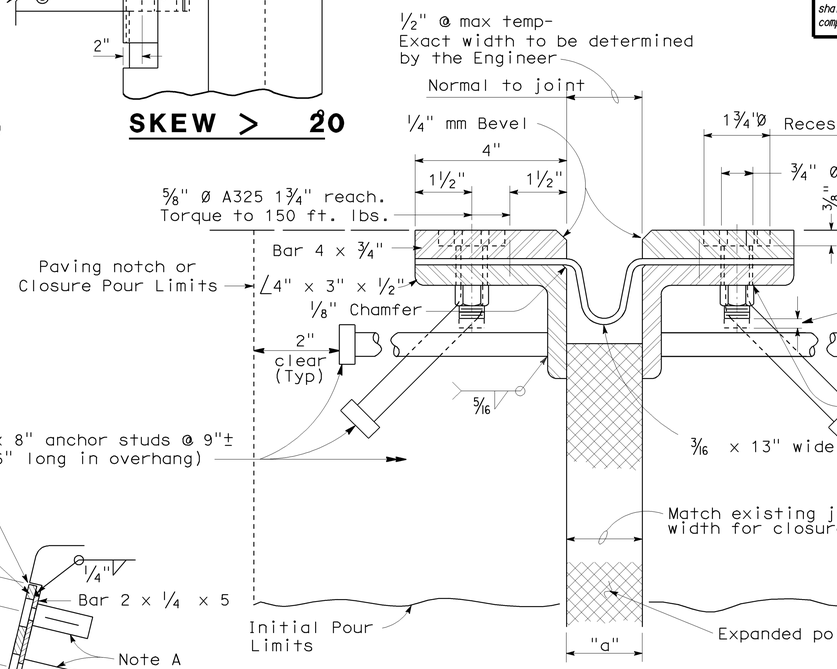
VIEW B-B



VIEW C-C

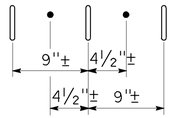


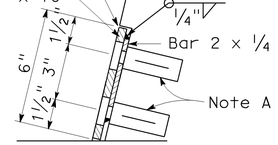
SECTION D-D



SECTION A-A

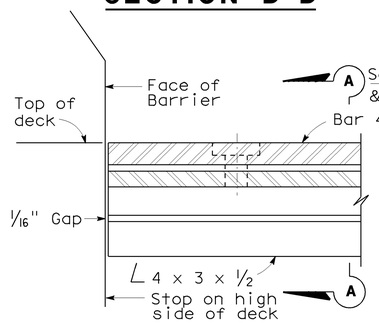
Note :
Stagger anchor studs @ 4½"± on centers thus:



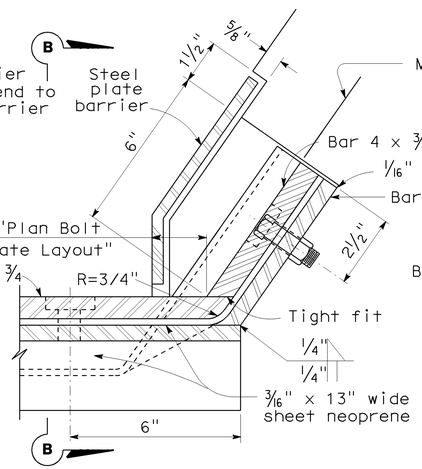


SECTION E-E

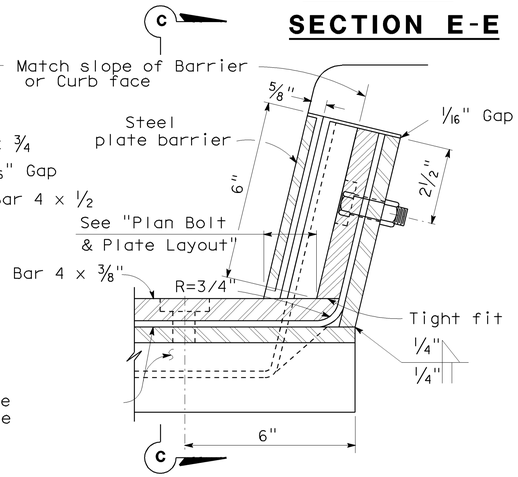
Joint Information			"a" Dimensions		
Location	Movement Rating (MR)	Skew	Winter	Spring & Fall	Summer
57-0885K, ABUT 1 & 5	3"	0°	3"	2¼"	1½"
57-0961F, ABUT 1 & 5	2½"	0°	2½"	2"	1¼"



HIGH SIDE BARRIER DETAIL



LOW SIDE BARRIER DETAIL
(See Note B)



SIDEWALK DETAIL
(See Note B)

NOTES:

Full penetration butt welds may be substituted for fillet welds on all anchor studs.

Alternate types of anchor studs may be permitted subject to the approval by the Engineer.

Joint seal assembly to be used in conjunction with closure pour. (See other sheets for limits). Closure pour shall not be placed until final deck surface is within the tolerances specified.

Use joint at crown of roadway, at any change in traverse slope in deck and at changes in horizontal direction. Place other joints at or near lanes. All metal parts to be painted or galvanized after fabrication.

Sheet neoprene shall be fabricated in one continuous piece or joints shall be vulcanized. Neoprene shall be fabricated to bend around corners. 1" holes in neoprene sheets shall be drilled or punched so that the neoprene is not distorted at the time of installation.

NOTE A

Insert assembly or expansion anchorage for ⅝" x 1¾" A325 bolt.

NOTE B

Use the sidewalk Detail at all sidewalk joints. Use the Barrier Detail at both sides if the roadway is crowned or if the difference in elevation between the ends of the seal is 0.5' or less.

NO SCALE

STANDARD DRAWING

FILE NO. xs8-010e

APPROVED BY T. DELIS — RESPONSIBLE TECHNICAL SPECIALIST
APPROVAL DATE 5-8-08

RELEASED BY ROBERTO LACALLE — RESPONSIBLE OFFICE CHIEF
RELEASE DATE 5-8-08

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

CU 2M3201
EA

BRIDGE NO. Various
POST MILE Varies

ROUTE 5, 15, 805 BRIDGES
JOINT SEAL ASSEMBLY (MAXIMUM MOVEMENT RATING = 4")

DISREGARD PRINTS BEARING EARLIER REVISION DATES →
REVISION DATES (PRELIMINARY STAGE ONLY): 7/19/2011 7/28/2011

SHEET 15 OF 16

DS OSD 2147A (ENGLISH STANDARD DRAWING "XS" BORDER REV. 01/11/08)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

USERNAME => s129239

DATE PLOTTED => 24-JAN-2012 TIME PLOTTED => 08:44

11-2m3201-d-jtsassbly

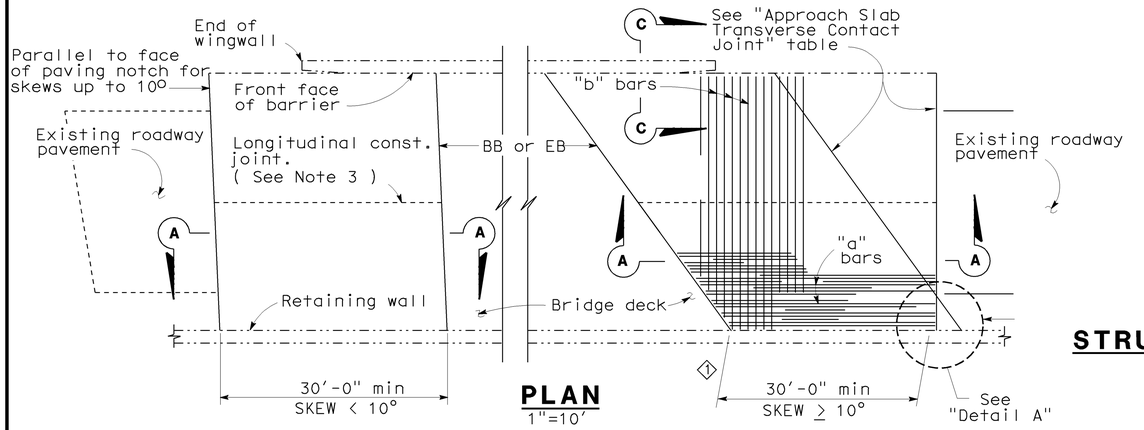
DIST.	COUNTY	ROUTE	MILE POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5,15,805	Var	37	37

11/14/11
REGISTERED ENGINEER — CIVIL

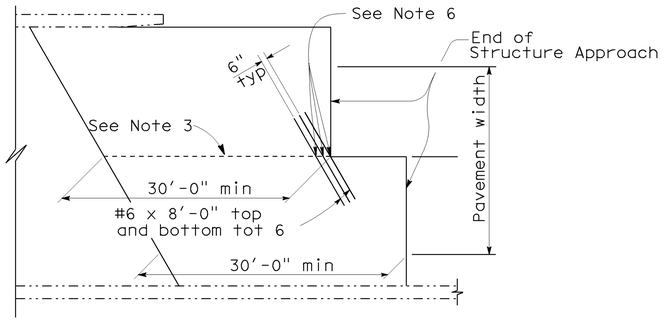
VINH DUC L. DANG
No. C65096
Exp. 09/30/13
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

01-30-12
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.

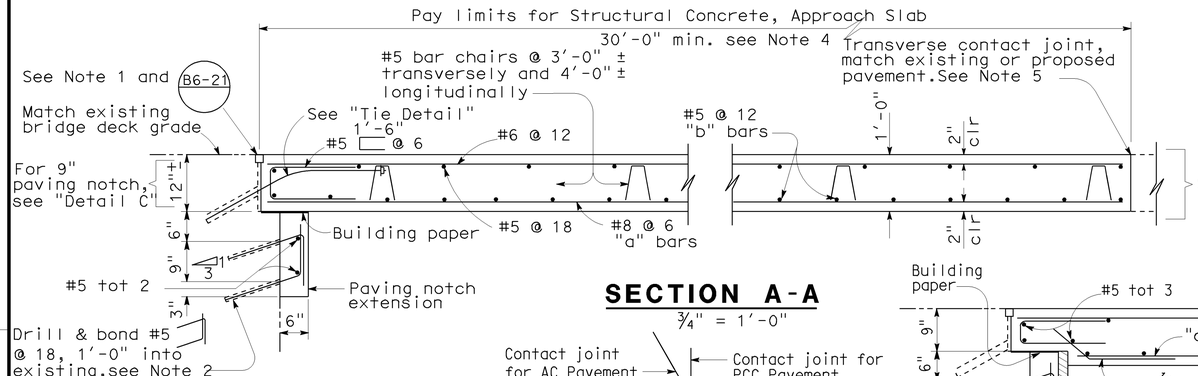


PLAN
1"=10'

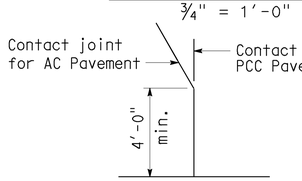


STRUCTURE APPROACH - END STAGGER DETAIL

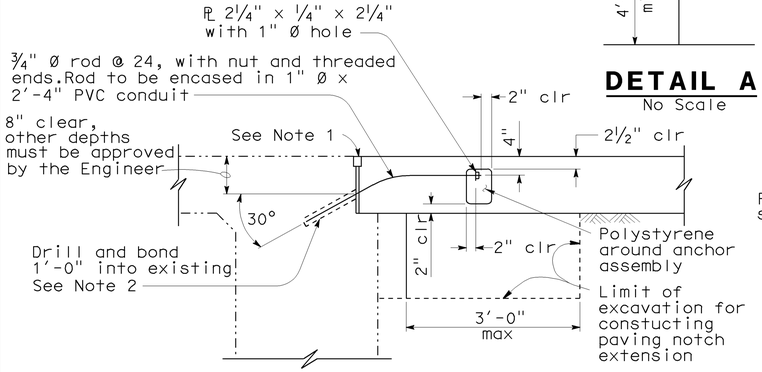
APPROACH SLAB TRANSVERSE CONTACT JOINT		
APPROACH SKEW	WITH AC ROADWAY PAVEMENT	WITH PCC ROADWAY PAVEMENT
< 10°	Parallel to face of paving notch	Parallel to face of paving notch
10° - 45°	Parallel to face of P N use (Detail A)	Stagger lines 24' to 36' apart
> 45°	Parallel to face of P N use (Detail A)	Stagger at each lane line



SECTION A-A
¾" = 1'-0"

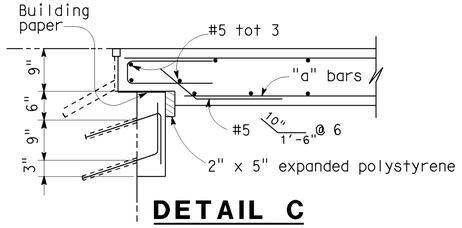


DETAIL A
No Scale



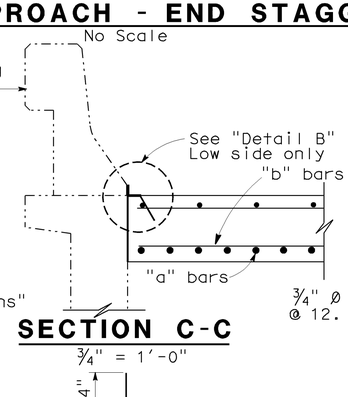
TIE DETAIL
¾" = 1'-0"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

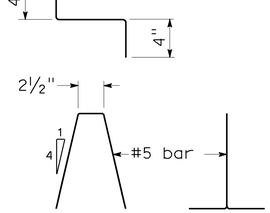


DETAIL C
¾" = 1'-0"

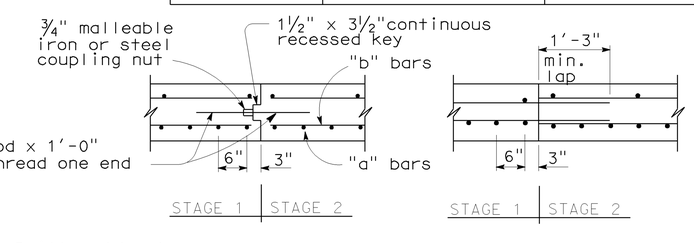
NOTE: For details not shown,see "Section A-A".

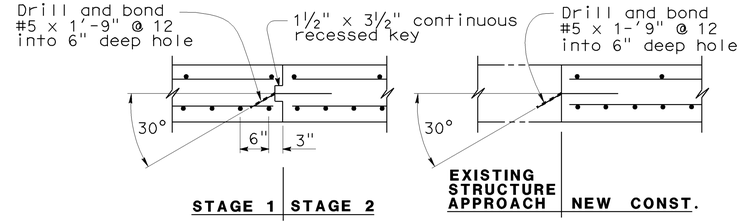


SECTION C-C
¾" = 1'-0"



BAR CHAIR DETAIL
1½" = 1'-0"

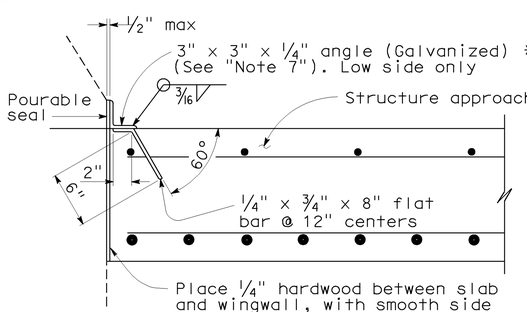




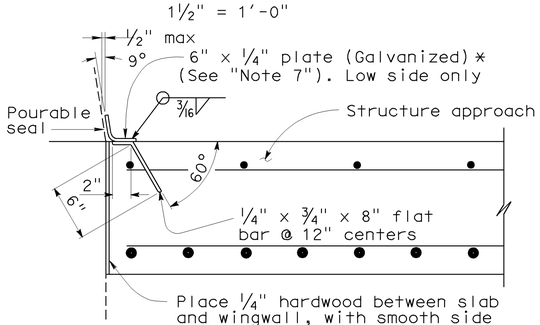
LONGITUDINAL CONSTRUCTION JOINT ALTERNATIVES
¾" = 1'-0"

NOTES:

1. For details not shown or noted,see Structure Plans. Adjust bar reinforcement to clear a sawcut for sealed joint,when required.
2. Space to avoid existing prestress anchorages and main reinforcement.
3. Longitudinal construction joints,when permitted by the Engineer,shall be located on lane lines.
4. Transverse contact joint shall be a minimum of 5'-0" from an existing or constructed weakened plane joint.
5. For transverse contact joint with new PCC paving. refer to Standard Plan P10.
6. Couplers are required for stage construction.
7. End angle or plate at beginning of barrier transition, end of wingwall or end of structure approach as applicable.



*(TO BE USED WITH TYPE 25 OR TYPE 27 CONCRETE BARRIER)



*(TO BE USED WITH TYPE 732 OR TYPE 736 CONCRETE BARRIER)

DETAIL B
1½" = 1'-0"

STANDARD DRAWING					
RELEASE DATE 3/14/05	DESIGN	BY M.TRAFFALIS	CHECKED E.THORKILDSEN	RELEASED BY	
	DETAILS	BY R.YEE	CHECKED E.THORKILDSEN		
FILE NO. xs3-140e	SUBMITTED	BY M.HA	DRAWING DATE 8/92	SERVICE CHIEF	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

BRIDGE NO.	ROUTE 5, 15, 805 BRIDGES
Various	
MILE POST	STRUCTURE APPROACH TYPE R(30D)
Varies	

DS OSD 2147A (ENGLISH) (REV. X/23/23)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3489 CONTRACT NO.: 2M3201
PROJECT NUMBER & PHASE: 1100020270

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 16 OF 16

DATE PLOTTED => 24-JAN-2012 TIME PLOTTED => 08:44

USERNAME => s129239

11-2m3201-e-strapp