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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

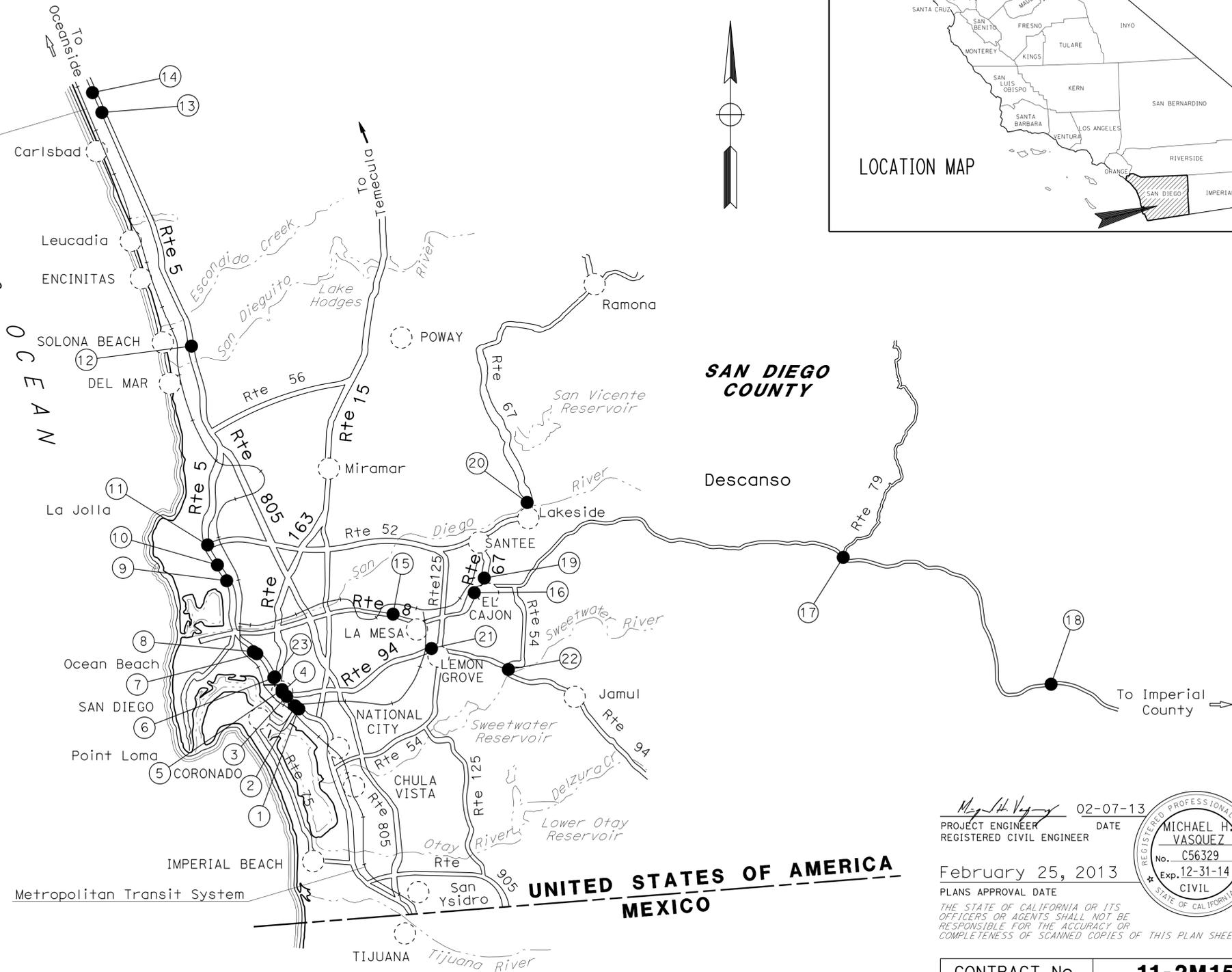
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN SAN DIEGO COUNTY
AT VARIOUS LOCATIONS

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010



LOCATIONS OF CONSTRUCTION

Loc	Rte	PM	BRIDGE No.	DESCRIPTION
①	5	R13.90	57-0846G	N5-S75 CONNECTOR OC
②	5	R14.16	57-0939H	S5-S75 CONNECTOR OC
③	5	R14.74	57-0451	J STREET OC
④	5	R15.00	57-0418S	S5-G St/19th-E 94 OC
⑤	5	R15.18	57-0423	BROADWAY OC
⑥	5	R16.17	57-0397S	N5-6TH AVENUE/N & S 163-N5 OC
⑦	5	R18.28	57-0546L	WASHINGTON STREET UC
⑧	5	R18.53	57-0547	NOELL STREET UC
⑨	5	R22.87	57-0287R	DE ANZA OFF-RAMP UC
⑩	5	R23.82	57-0289	ROSE CANYON CREEK
⑪	5	R25.93	57-0519F	S5-E52 CONNECTOR OH
⑫	5	R36.27	57-0489	VIA DE LA VALLE UC
⑬	5	R49.73	57-0275	CHESTNUT AVENUE UC
⑭	5	R50.94	57-0277	BUENA VISTA LAGOON
⑮	8	9.59	57-0341	LAKE MURRAY Blvd OC
⑯	8	14.95	57-0369	MARSHALL AVENUE OH
⑰	8	R37.83	57-0689R	ROUTE 8/79 SEPARATION
⑱	8	R56.78	57-0756R	LA POSTA CREEK
⑲	67	R0.16	57-0557F	S67-W8 CONNECTOR OC
⑳	67	R5.19	57-0562L	CHANNEL ROAD UC
㉑	94	R10.72	57-0803	CAMPO ROAD OC
㉒	94	15.27	57-0962	SWEETWATER RIVER
㉓	163	0.88	57-0392G	N163-N5 CONNECTOR OC



PROJECT MANAGER
ALBERTO GAYON

DESIGN ENGINEER
MICHAEL H. VASQUEZ

02-07-13
DATE
PROJECT ENGINEER
REGISTERED CIVIL ENGINEER



February 25, 2013
PLANS APPROVAL DATE

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

CONTRACT No.	11-2M1504
PROJECT ID	112000123

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

DATE PLOTTED => 04-MAR-2013 TIME PLOTTED => 14:03

NOTES:

- EXACT LOCATION OF CONSTRUCTION AREA SIGNS WILL BE DETERMINED BY THE ENGINEER.
- FEDERAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SIGN CODES ARE SHOWN UNLESS DESIGNATED BY (CA), INDICATING CALIFORNIA SIGN SPECIFICATIONS ARE USED.
- SEE TRAFFIC HANDLING PLANS FOR ADDITIONAL CONSTRUCTION AREA SIGNS.
- 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.

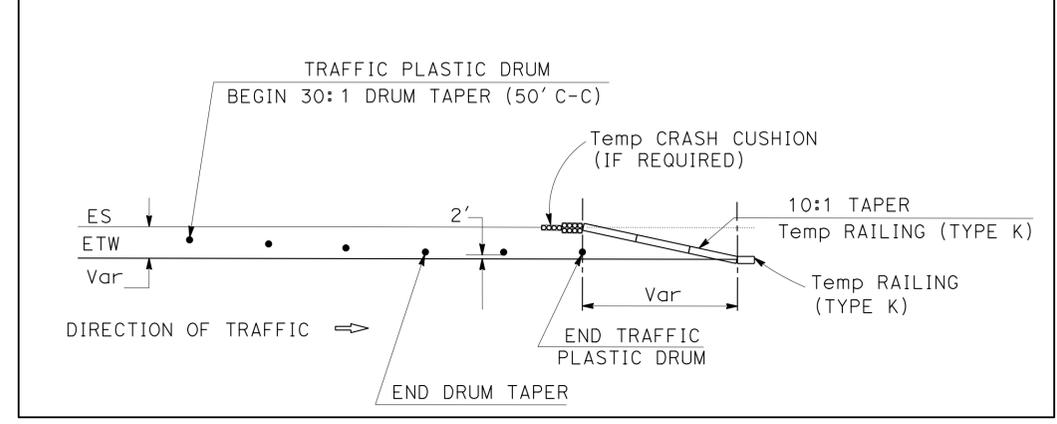
LEGEND:

XX = CONSTRUCTION AREA SIGNS

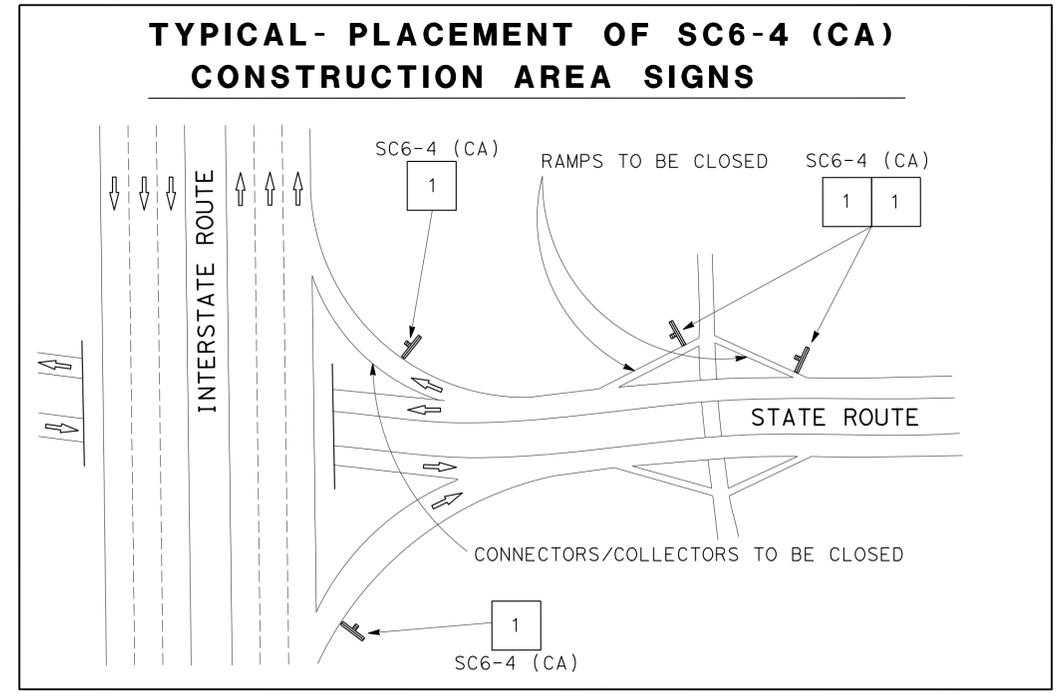
CONSTRUCTION AREA SIGNS

SIGN No.	CODE	PANEL SIZE (INCH)	No. OF POST AND SIZE (INCH)	No. OF SIGNS
1	SC6-4 (CA)	48 X 60	PORTABLE	7
2	C23 (CA)	48 X 48	1-4 X 6 (S)	36
3	C14 (CA)	48 X 24	1-4 X 4 (S)	33

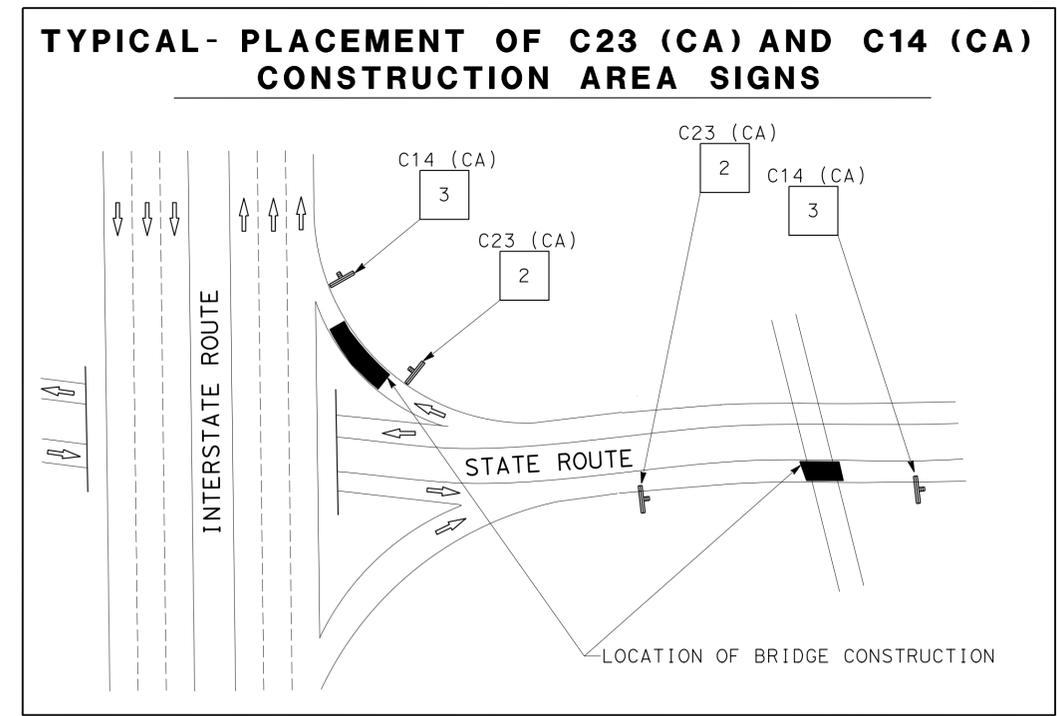
TYPICAL PLACEMENT OF TRAFFIC PLASTIC DRUM



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



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



CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

EVERUSALEM TADESSE
 MICHAEL VASQUEZ
 ALBERTO GAYON
 MAINTENANCE ENGINEERING
 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

NOTES:

1. EXACT LOCATION OF CONSTRUCTION AREA SIGNS SHALL BE DETERMINED BY THE ENGINEER.
2. FEDERAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SIGN CODES ARE SHOWN UNLESS DESIGNATED BY (CA), INDICATING CALIFORNIA SIGN SPECIFICATIONS ARE USED.
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

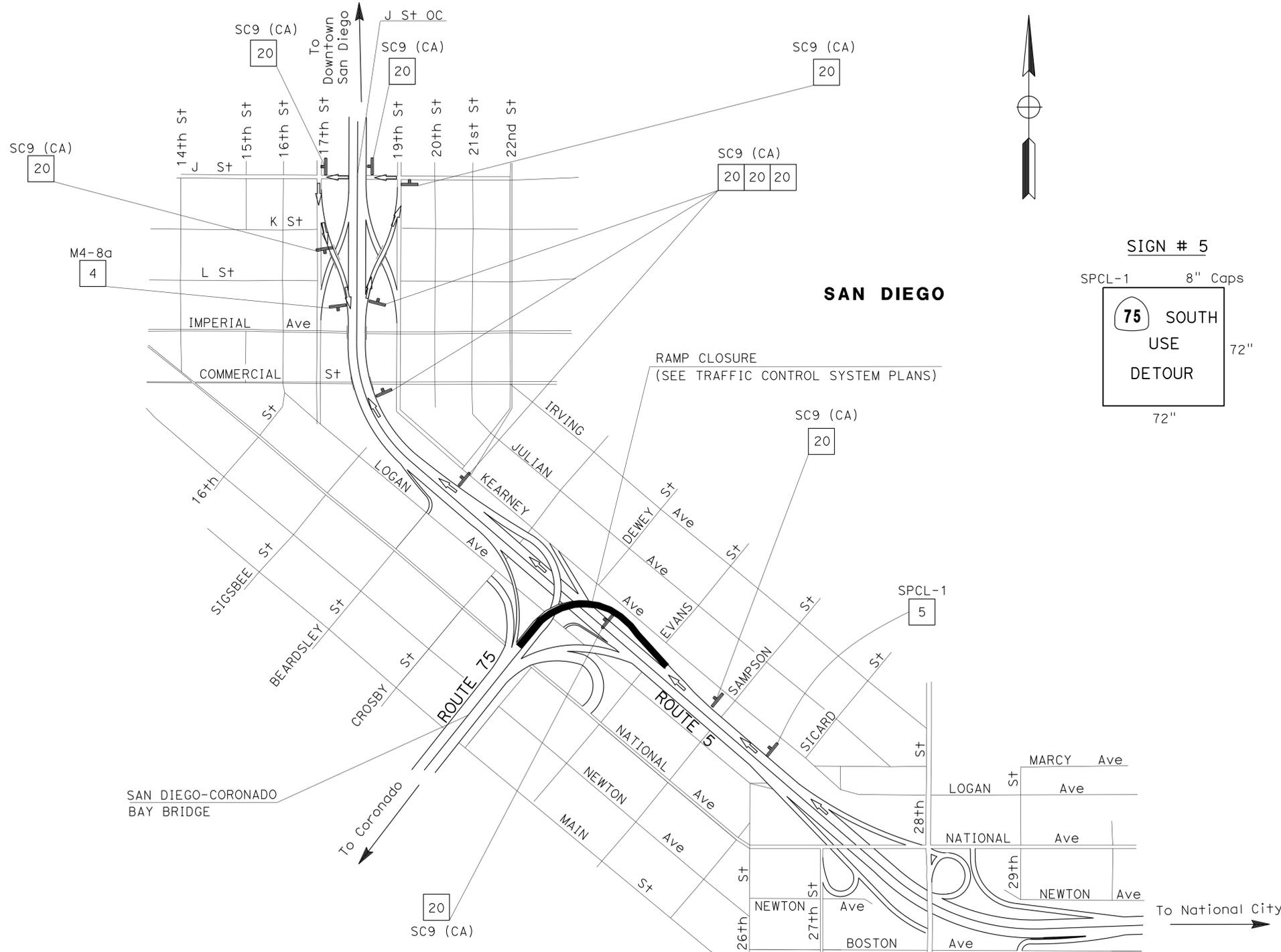
- XX = CONSTRUCTION AREA SIGNS
- SPCL = SPECIAL CONSTRUCTION AREA SIGN
- Caps = CAPITAL LETTERING
- ⇨ = DETOUR DIRECTION OF TRAVEL

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,67,94,163	Var	3	47

REGISTERED CIVIL ENGINEER DATE 02-07-13
 REGISTERED PROFESSIONAL ENGINEER
MICHAEL H. VASQUEZ
 No. C56329
 Exp. 12/31/14
 CIVIL
 STATE OF CALIFORNIA

02-25-13
 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.



CONSTRUCTION AREA SIGNS

SIGN No.	CODE	(INCH)	No. OF POST AND SIZE (INCH)	No. OF SIGNS
4	M4-8a	24 X 18	PORTABLE	14
5	SPCL-1	72 X 72	PORTABLE	1
6	SPCL-2	72 X 72	PORTABLE	2
7	SPCL-3	72 X 72	PORTABLE	1
8	SPCL-4	72 X 72	PORTABLE	1
9	SPCL-5	72 X 72	PORTABLE	2
10	SPCL-6	72 X 72	PORTABLE	1
11	SPCL-7	72 X 72	PORTABLE	1
12	SPCL-8	72 X 72	PORTABLE	5
13	SPCL-9	72 X 72	PORTABLE	3
14	SPCL-10	72 X 72	PORTABLE	1
15	SPCL-11	72 X 72	PORTABLE	1
16	SPCL-12	72 X 72	PORTABLE	2
17	SPCL-13	72 X 72	PORTABLE	2
18	SPCL-14	72 X 72	PORTABLE	1
19	SPCL-15	72 X 72	PORTABLE	2
20	SC9 (CA)	36 X 36	PORTABLE	165

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
MAINTENANCE ENGINEERING
 Et Caltrans®
 FUNCTIONAL SUPERVISOR: ALBERTO GAYON
 CALCULATED/DESIGNED BY: EYERUSALEM TADESSE
 CHECKED BY: MICHAEL VASQUEZ
 REVISED BY: EYERUSALEM TADESSE
 DATE REVISED:

APPROVED FOR TRAFFIC HANDLING WORK ONLY

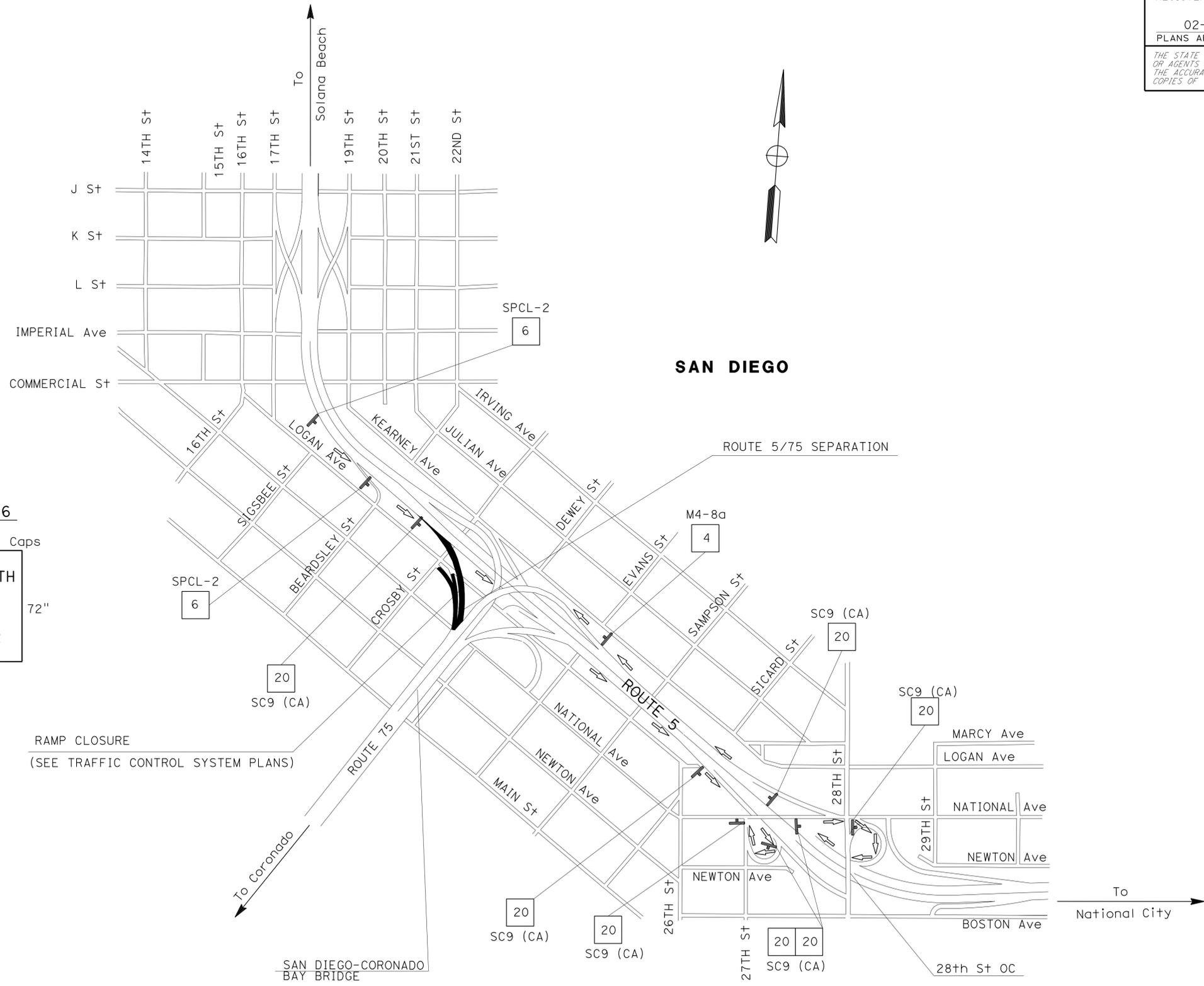
NB 5 CONNECTOR TO SB 75
TRAFFIC HANDLING PLAN
(LOCATION 1)
 NO SCALE
TH-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,67,94,163	Var	4	47

REGISTERED CIVIL ENGINEER DATE 02-07-13
 02-25-13
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 MICHAEL H. VASQUEZ
 No. C56329
 Exp. 12/31/14
 CIVIL
 STATE OF CALIFORNIA

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR
Caltrans	ALBERTO GAYON	CHECKED BY	DATE
MAINTENANCE ENGINEERING		DESIGNED BY	REVISION
		MICHAEL VASQUEZ	

SB 5 CONNECTOR TO SB 75
TRAFFIC HANDLING PLAN
(LOCATION 2)
 NO SCALE
TH-2

APPROVED FOR TRAFFIC HANDLING WORK ONLY

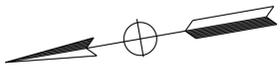
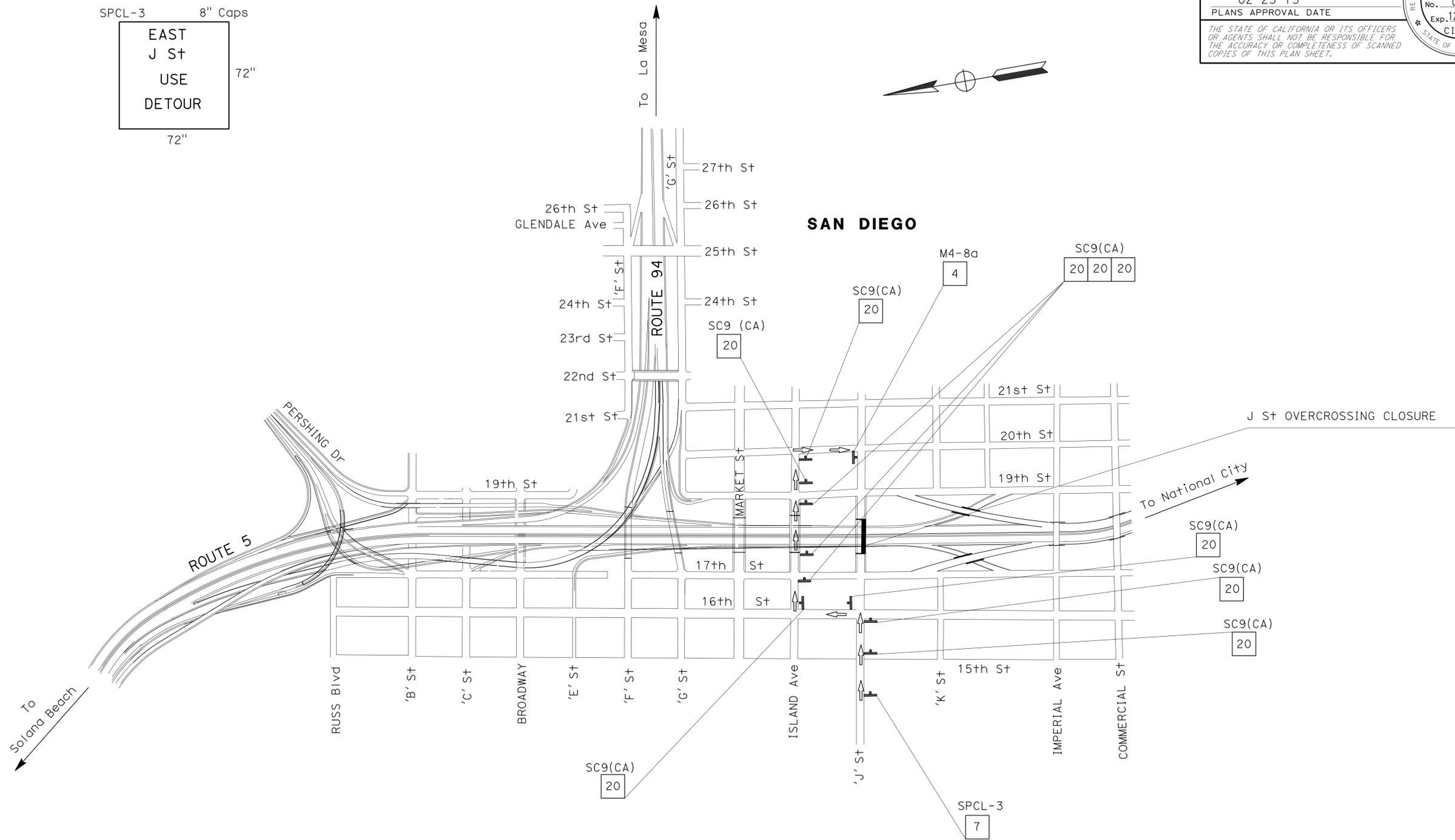
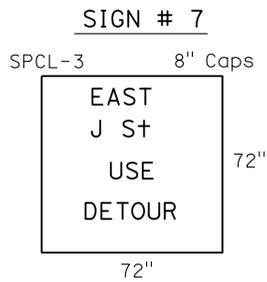
LAST REVISION DATE PLOTTED => 04-MAR-2013
 02-12-13 TIME PLOTTED => 11:43

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR
Caltrans	ALBERTO GAYON	DESIGNED BY	DATE
MAINTENANCE ENGINEERING		CHECKED BY	DATE
		DESIGNED BY	DATE
		CHECKED BY	DATE
		DESIGNED BY	DATE
		CHECKED BY	DATE

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,67,94,163	Var	5	47

REGISTERED CIVIL ENGINEER DATE 02-07-13
 REGISTERED CIVIL ENGINEER DATE 02-25-13
 PLANS APPROVAL DATE 02-25-13
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REGISTERED PROFESSIONAL ENGINEER
MICHAEL H. VASQUEZ
 No. C56329
 Exp. 12-31-14
 CIVIL
 STATE OF CALIFORNIA



APPROVED FOR TRAFFIC HANDLING WORK ONLY

EB J St TO J St

TRAFFIC HANDLING PLAN (LOCATION 3)

TH-3

NO SCALE

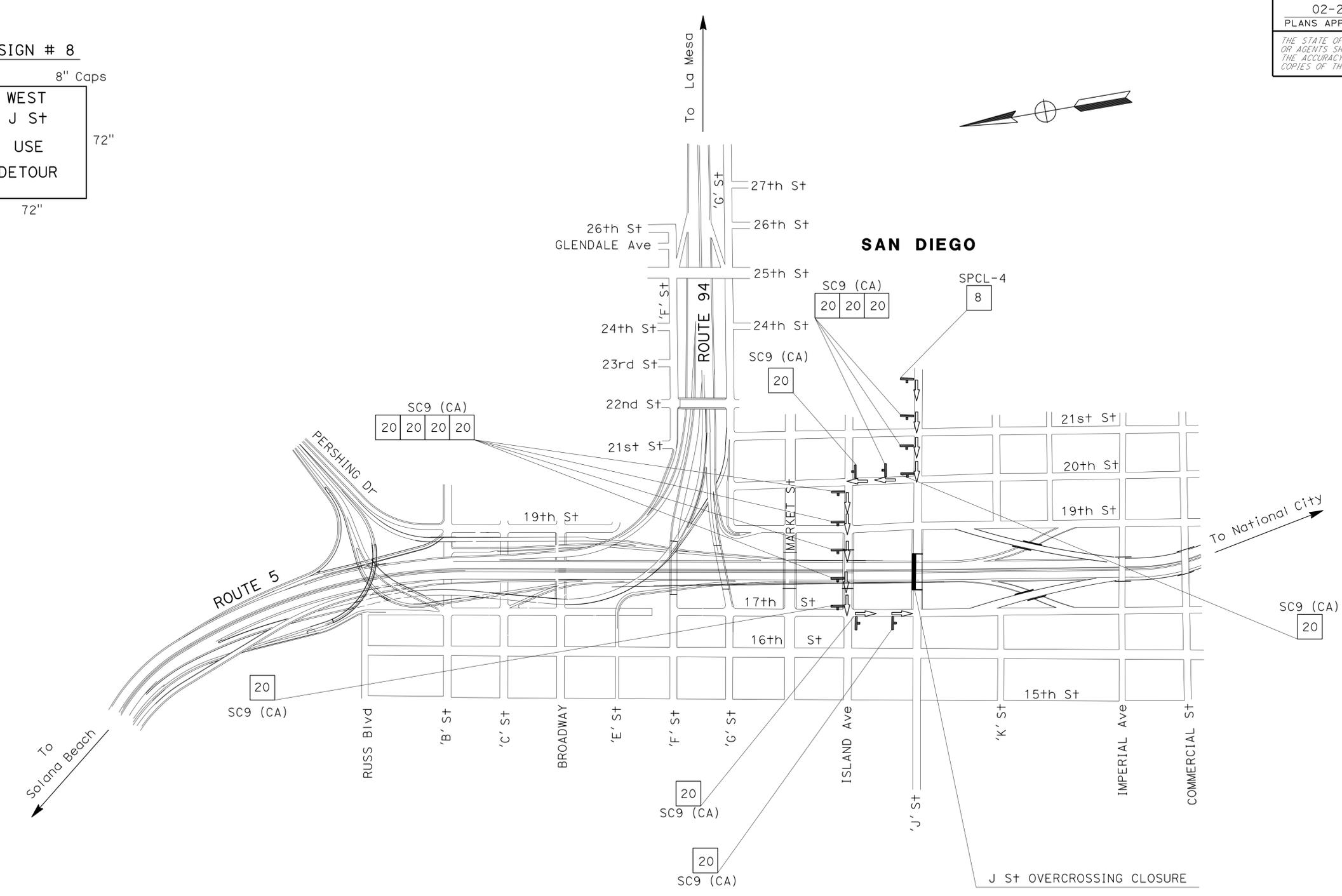
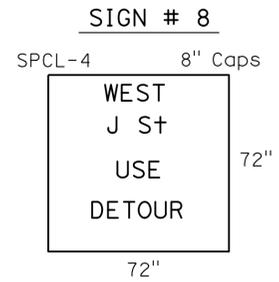
LAST REVISION | DATE PLOTTED => 04-MAR-2013
 02-12-13 | TIME PLOTTED => 11:43

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,67,94,163	Var	6	47

REGISTERED CIVIL ENGINEER DATE 02-07-13
 REGISTERED CIVIL ENGINEER DATE 02-25-13
 PLANS APPROVAL DATE 02-25-13

MICHAEL H. VASQUEZ
 No. C56329
 Exp. 12-31-14
 CIVIL

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR
MAINTENANCE ENGINEERING	ALBERTO GAYON	CHECKED BY	DATE
Caltrans		EYERUSALEM TADESSE	REVISOR
		MICHAEL VASQUEZ	DATE

APPROVED FOR TRAFFIC HANDLING WORK ONLY

WB J St TO J St

TRAFFIC HANDLING PLAN (LOCATION 3)

TH-4

NO SCALE

LAST REVISION | DATE PLOTTED => 04-MAR-2013
 02-12-13 | TIME PLOTTED => 11:43

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
MAINTENANCE ENGINEERING

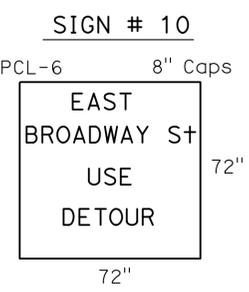
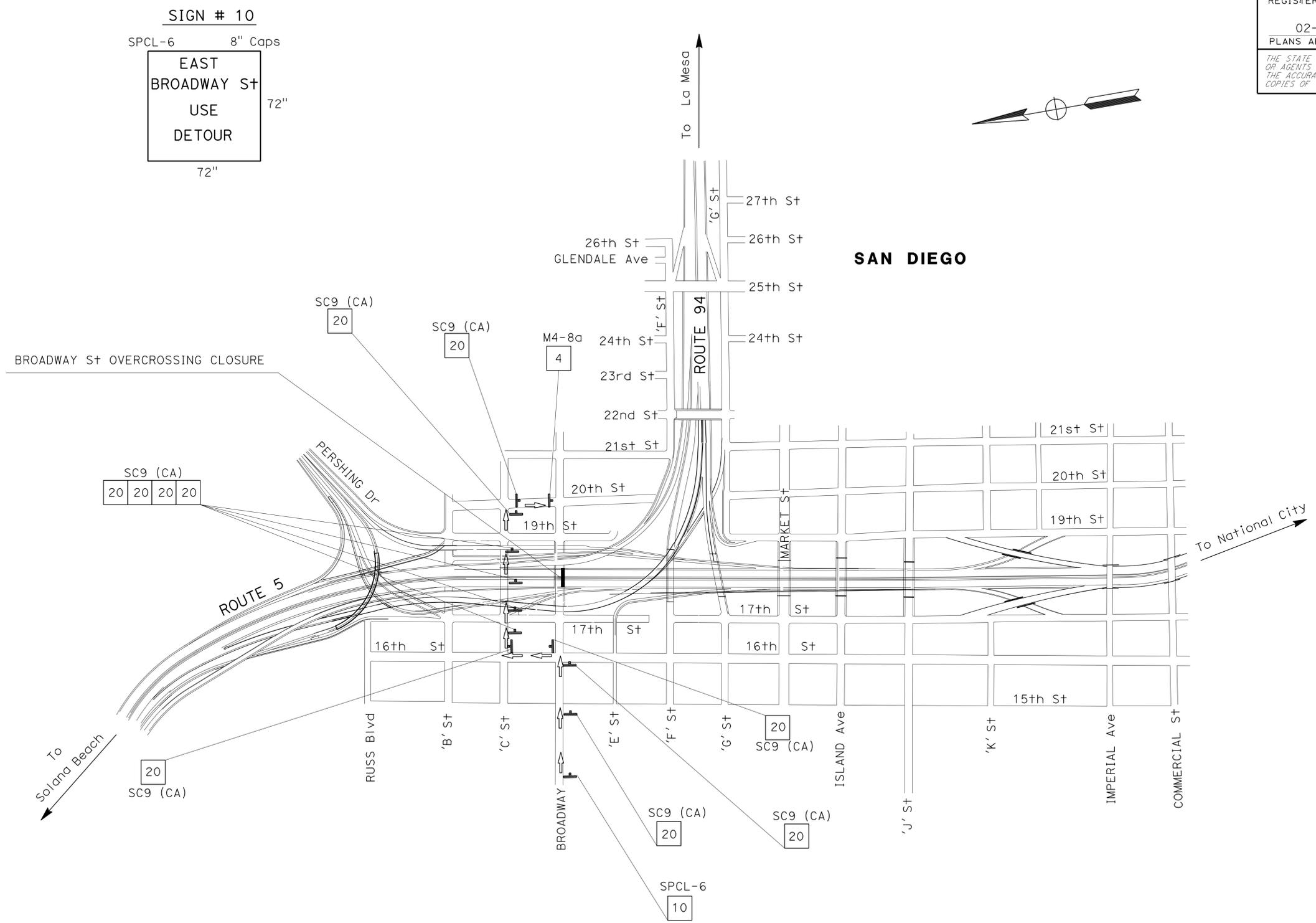
FUNCTIONAL SUPERVISOR	ALBERTO GAYON
CALCULATED/DESIGNED BY	CHECKED BY
EYERUSALEM TADESSE	MICHAEL VASQUEZ
REVISOR	DATE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,67,94,163	Var	8	47

02-07-13
 REGISTERED CIVIL ENGINEER DATE
 02-25-13
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MICHAEL H. VASQUEZ
 No. C56329
 Exp. 12-31-14
 CIVIL
 STATE OF CALIFORNIA

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EB BROADWAY TO BROADWAY
TRAFFIC HANDLING PLAN
(LOCATION 5)
 NO SCALE
TH-6

APPROVED FOR TRAFFIC HANDLING WORK ONLY

LAST REVISION | DATE PLOTTED => 04-MAR-2013
 02-12-13 | TIME PLOTTED => 11:43

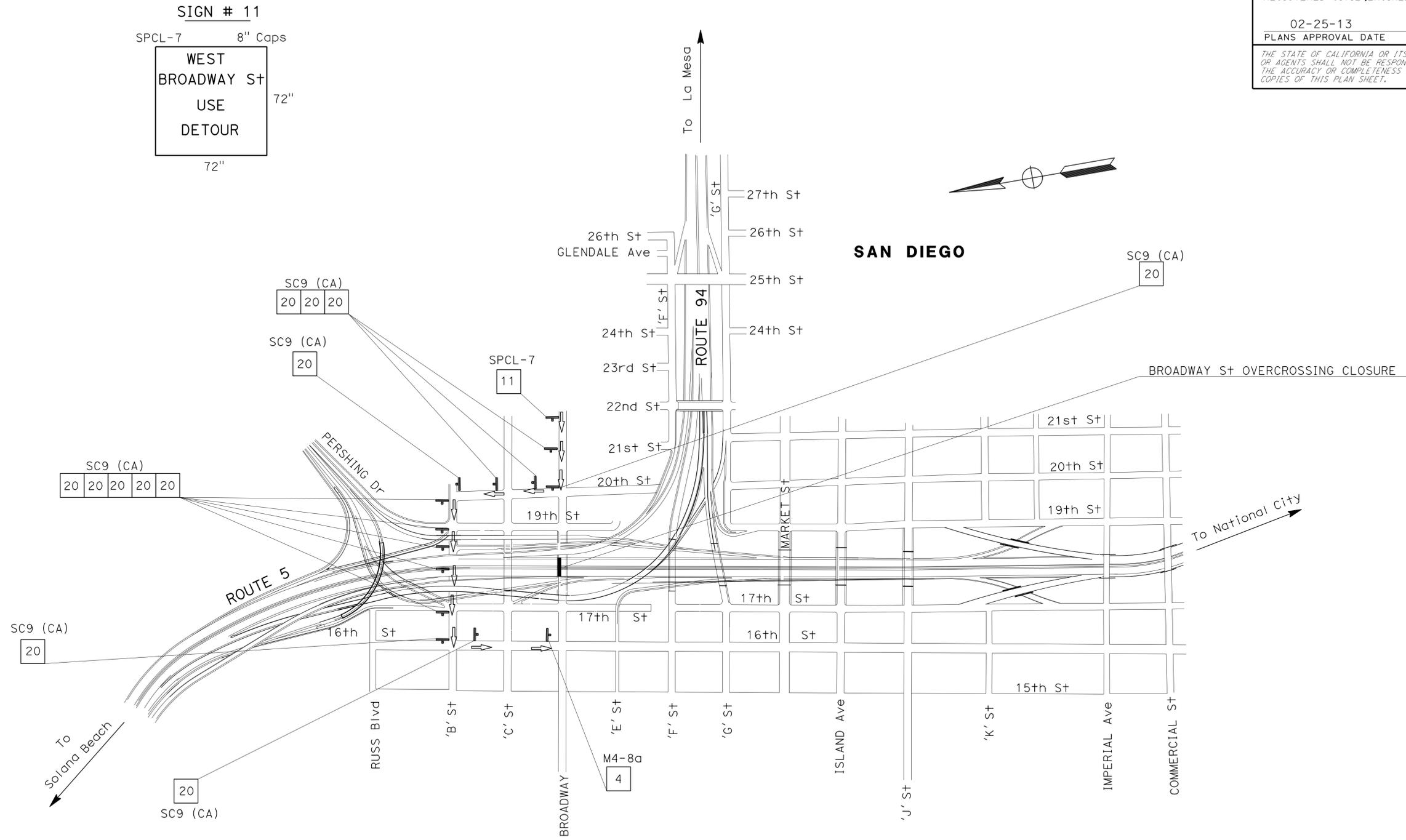
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,67,94,163	Var	9	47

REGISTERED CIVIL ENGINEER DATE 02-07-13
 REGISTERED CIVIL ENGINEER DATE 02-25-13
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 MICHAEL H. VASQUEZ
 No. C56329
 Exp. 12-31-14
 CIVIL
 STATE OF CALIFORNIA

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR
Caltrans	ALBERTO GAYON	EVERUSALEM TADESSE	BY
MAINTENANCE ENGINEERING		MICHAEL VASQUEZ	DATE
			REVISED

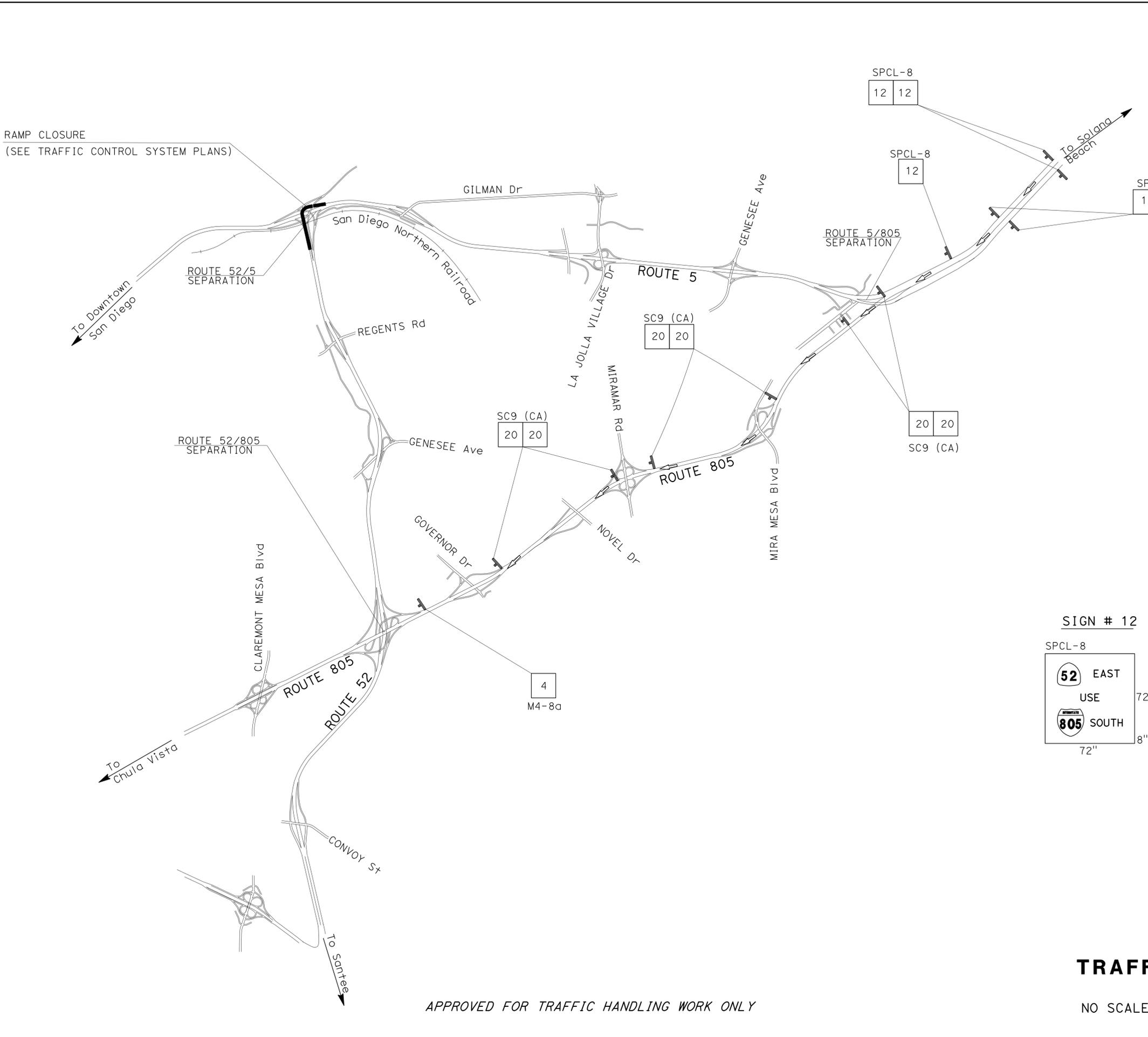


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WB BROADWAY TO BROADWAY
TRAFFIC HANDLING PLAN
(LOCATION 5)
 NO SCALE
TH-7

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR	ALBERTO GAYON
CALCULATED/DESIGNED BY	CHECKED BY
EYERUSALEM TADESSE	MICHAEL VASQUEZ
REVISED BY	DATE REVISED

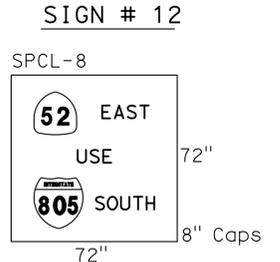
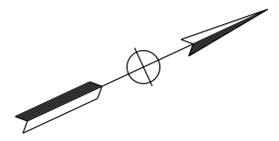


DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,67,94,163	Var	10	47

REGISTERED CIVIL ENGINEER DATE 02-07-13
 02-25-13
 PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
 MICHAEL H. VASQUEZ
 No. C56329
 Exp. 12/31/14
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 STATE OF CALIFORNIA



APPROVED FOR TRAFFIC HANDLING WORK ONLY

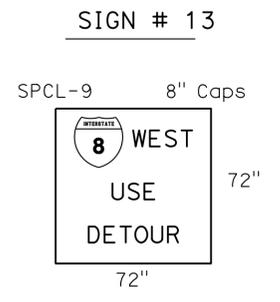
SB 5 CONNECTOR TO EB 52
TRAFFIC HANDLING PLAN
(LOCATION 11)
 NO SCALE **TH-8**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,67,94,163	Var	11	47

<i>Michael H. Vasquez</i>	02-07-13
REGISTERED CIVIL ENGINEER	DATE
02-25-13	
PLANS APPROVAL DATE	

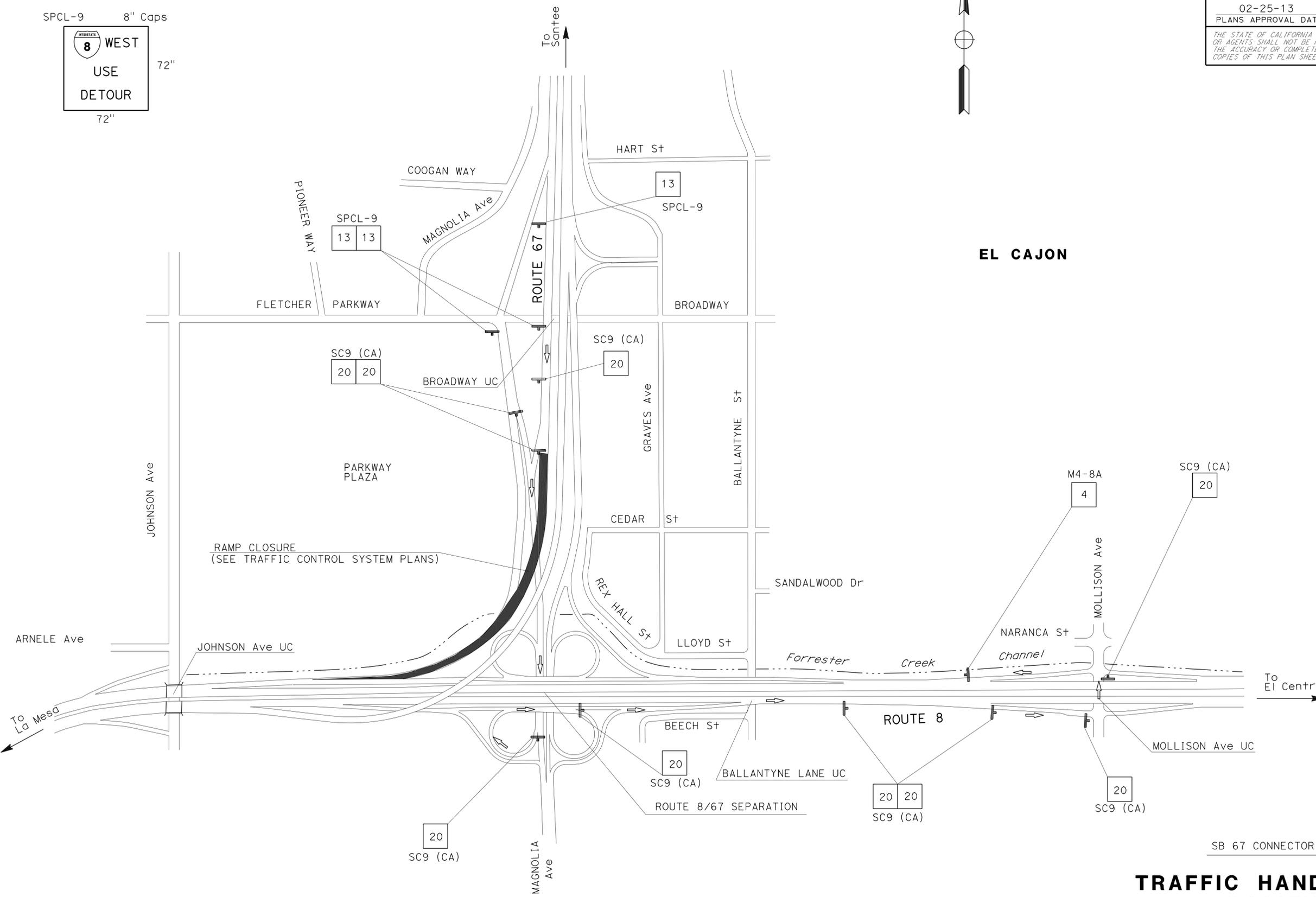
REGISTERED PROFESSIONAL ENGINEER
MICHAEL H. VASQUEZ
No. C56329
Exp. 12-31-14
CIVIL

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR	ALBERTO GAYON
CALCULATED/DESIGNED BY	CHECKED BY
EYERUSALEM TADESSE	MICHAEL VASQUEZ
REVISOR	DATE

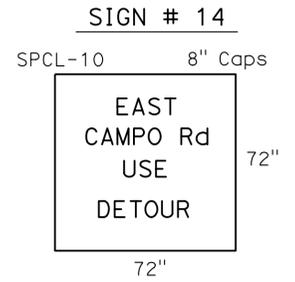
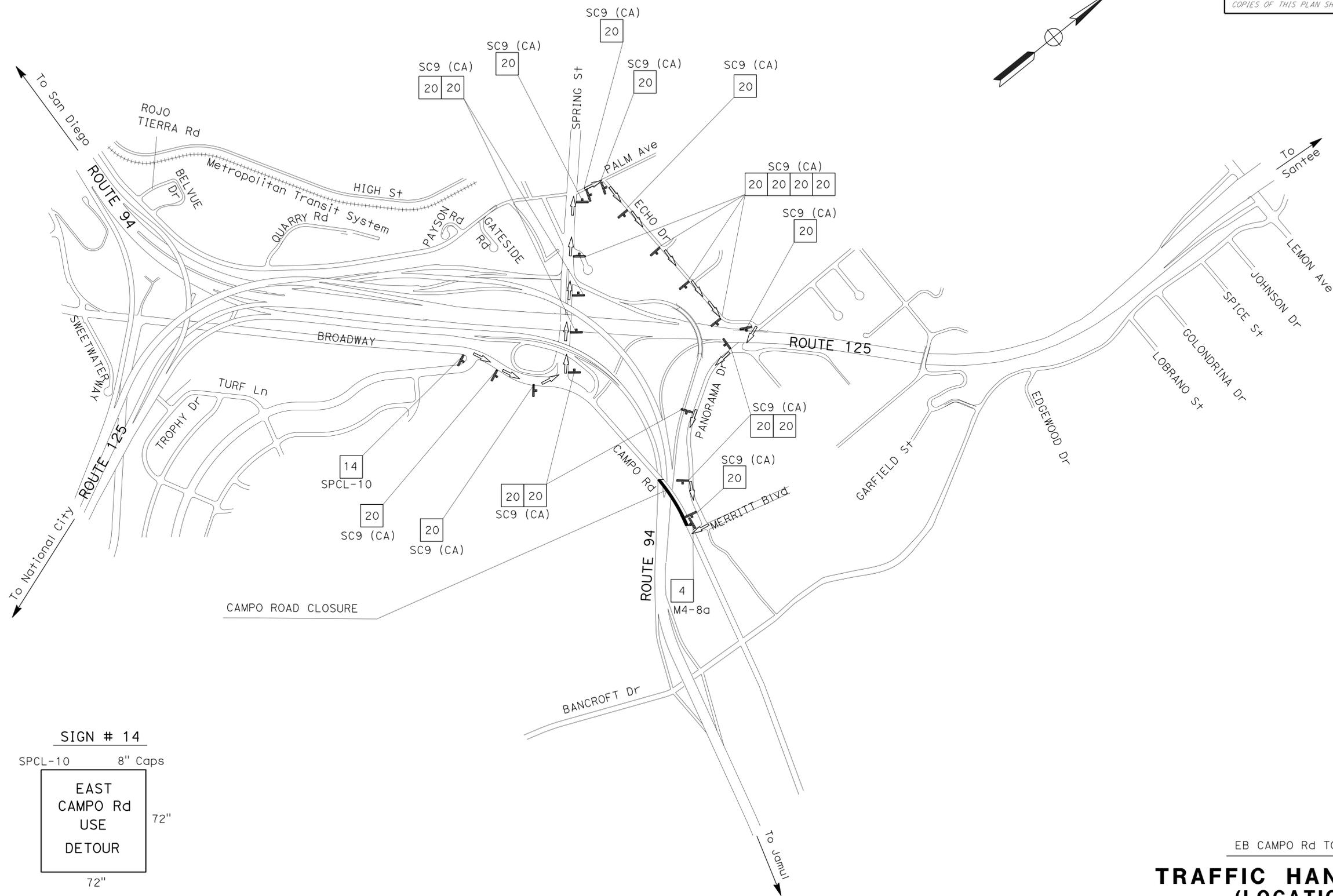


APPROVED FOR TRAFFIC HANDLING WORK ONLY

TRAFFIC HANDLING PLAN
(LOCATION 19)
 NO SCALE
TH-9

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,67,94,163	Var	12	47

REGISTERED CIVIL ENGINEER DATE 02-07-13
 REGISTERED CIVIL ENGINEER No. C56329 Exp. 12-31-14
 PLANS APPROVAL DATE 02-25-13
 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.



EB CAMPO Rd TO CAMPO Rd
TRAFFIC HANDLING PLAN
(LOCATION 21)
 NO SCALE
TH-10

APPROVED FOR TRAFFIC HANDLING WORK ONLY

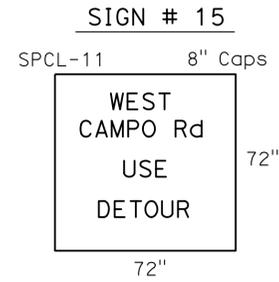
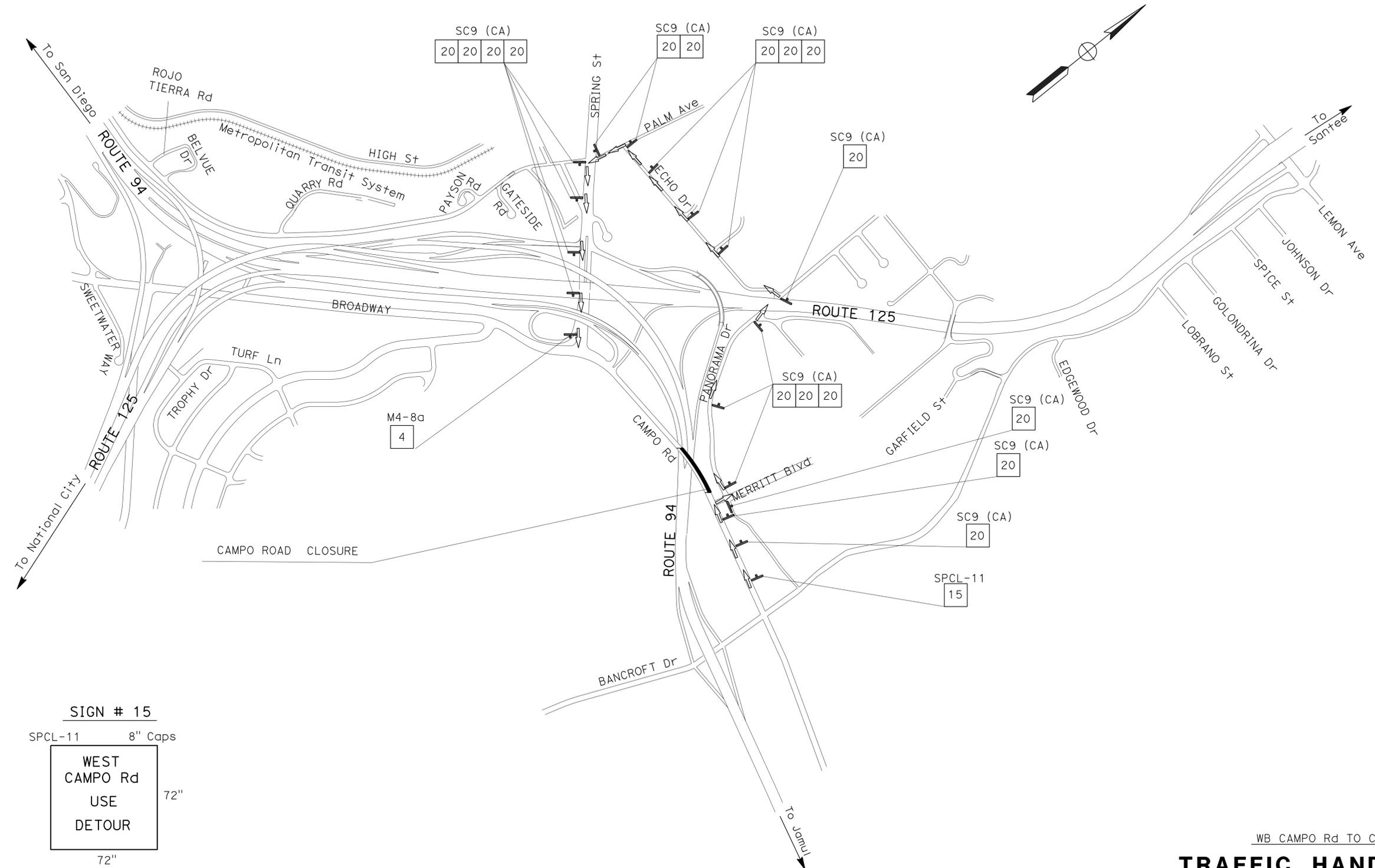
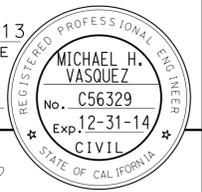
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR
Caltrans	ALBERTO GAYON	EYERUSALEM TADESSE	REVISOR
MAINTENANCE ENGINEERING		MICHAEL VASQUEZ	DATE REVISOR

LAST REVISION DATE PLOTTED => 04-MAR-2013
 02-14-13 TIME PLOTTED => 11:43

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,67,94,163	Var	13	47

<i>Michael H. Vasquez</i>	02-07-13
REGISTERED CIVIL ENGINEER	DATE
02-25-13	
PLANS APPROVAL DATE	

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WB CAMPO Rd TO CAMPO Rd
TRAFFIC HANDLING PLAN
(LOCATION 21)
 NO SCALE **TH-11**

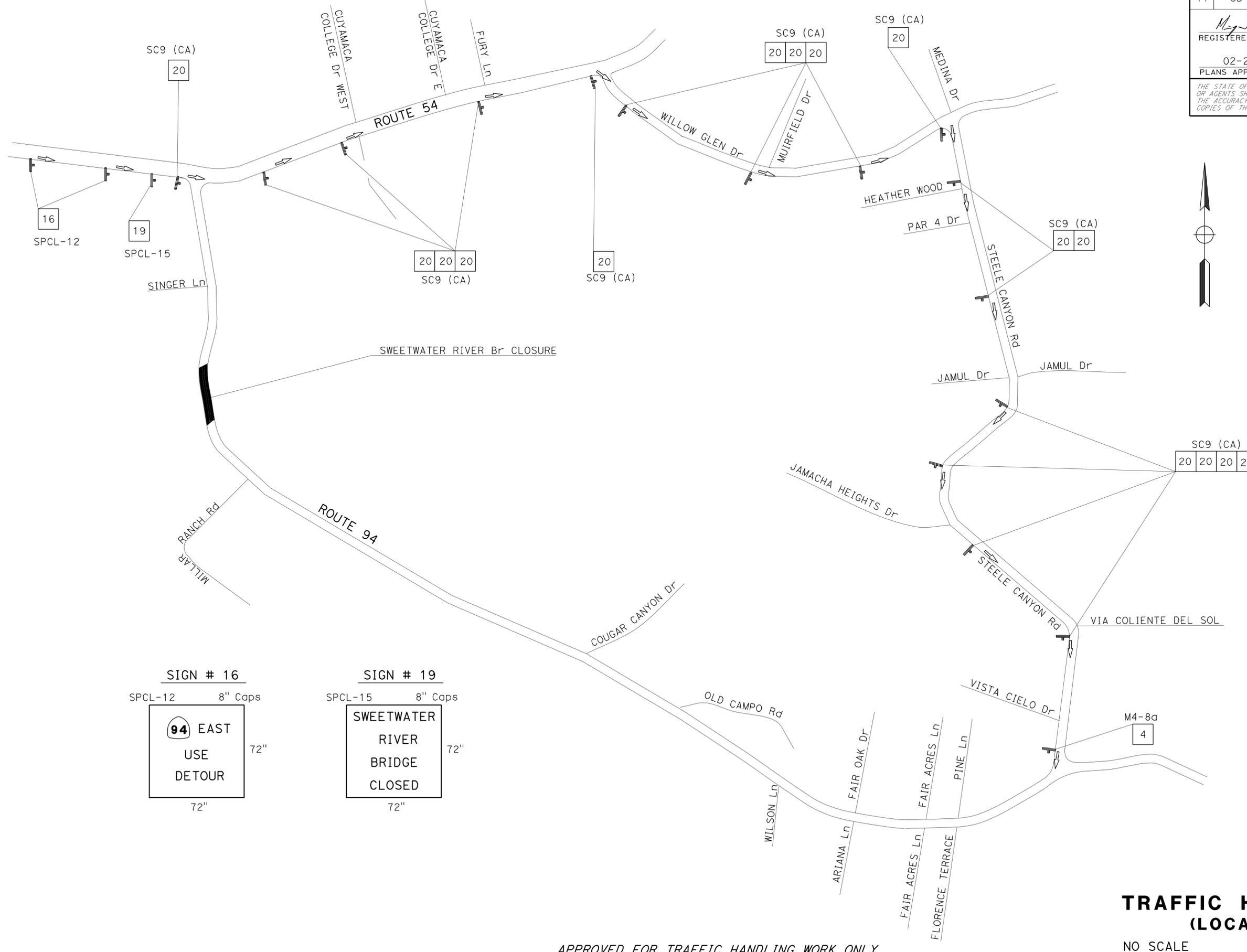
APPROVED FOR TRAFFIC HANDLING WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR
Caltrans	ALBERTO GAYON	MYERUSALEM TADESSE	DATE
MAINTENANCE ENGINEERING		MICHAEL VASQUEZ	REVISOR
			DATE

LAST REVISION | DATE PLOTTED => 04-MAR-2013 02-14-13 | TIME PLOTTED => 11:43

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,67,94,163	Var	14	47

REGISTERED CIVIL ENGINEER DATE 02-07-13
 REGISTERED CIVIL ENGINEER No. C56329 Exp. 12-31-14
 PLANS APPROVAL DATE 02-25-13
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR	ALBERTO GAYON
CALCULATED/DESIGNED BY	CHECKED BY
EVERUSALEM TADESSE	MICHAEL VASQUEZ
REVISOR	DATE
REVISOR	DATE

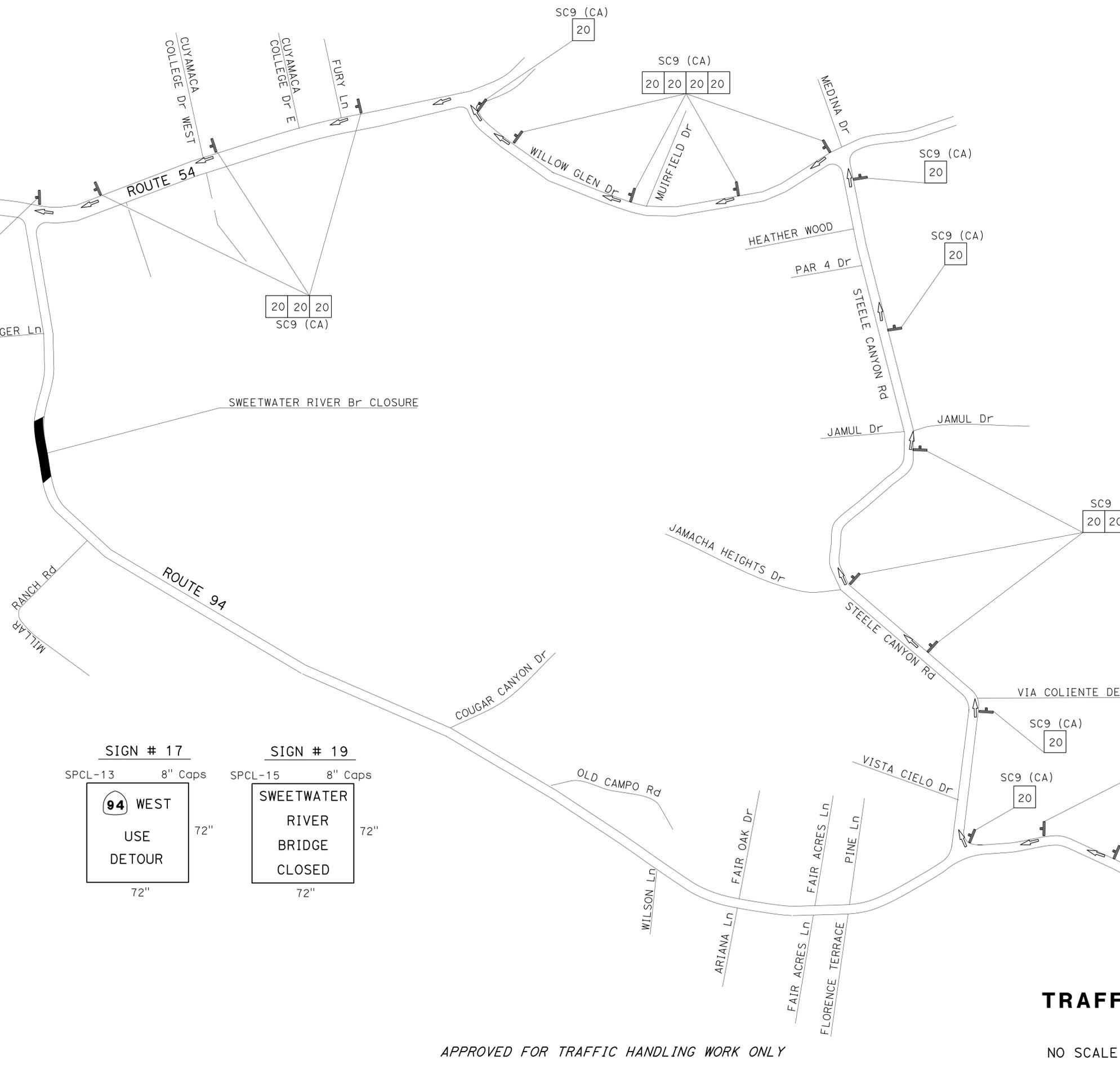
APPROVED FOR TRAFFIC HANDLING WORK ONLY

EB 94 TO EB 54
TRAFFIC HANDLING PLAN
(LOCATION 22)
 NO SCALE
TH-12

LAST REVISION | DATE PLOTTED => 04-MAR-2013
 02-14-13 | TIME PLOTTED => 11:43

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR	ALBERTO GAYON
CALCULATED/DESIGNED BY	CHECKED BY
EYERUSALEM TADESSE	MICHAEL VASQUEZ
REVISOR	DATE



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,67,94,163	Var	15	47
REGISTERED CIVIL ENGINEER No. C56329 Exp. 12-31-14 CIVIL			02-07-13 DATE 02-25-13 PLANS APPROVAL DATE		

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WB 94 TO WB 54

**TRAFFIC HANDLING PLAN
(LOCATION 22)**

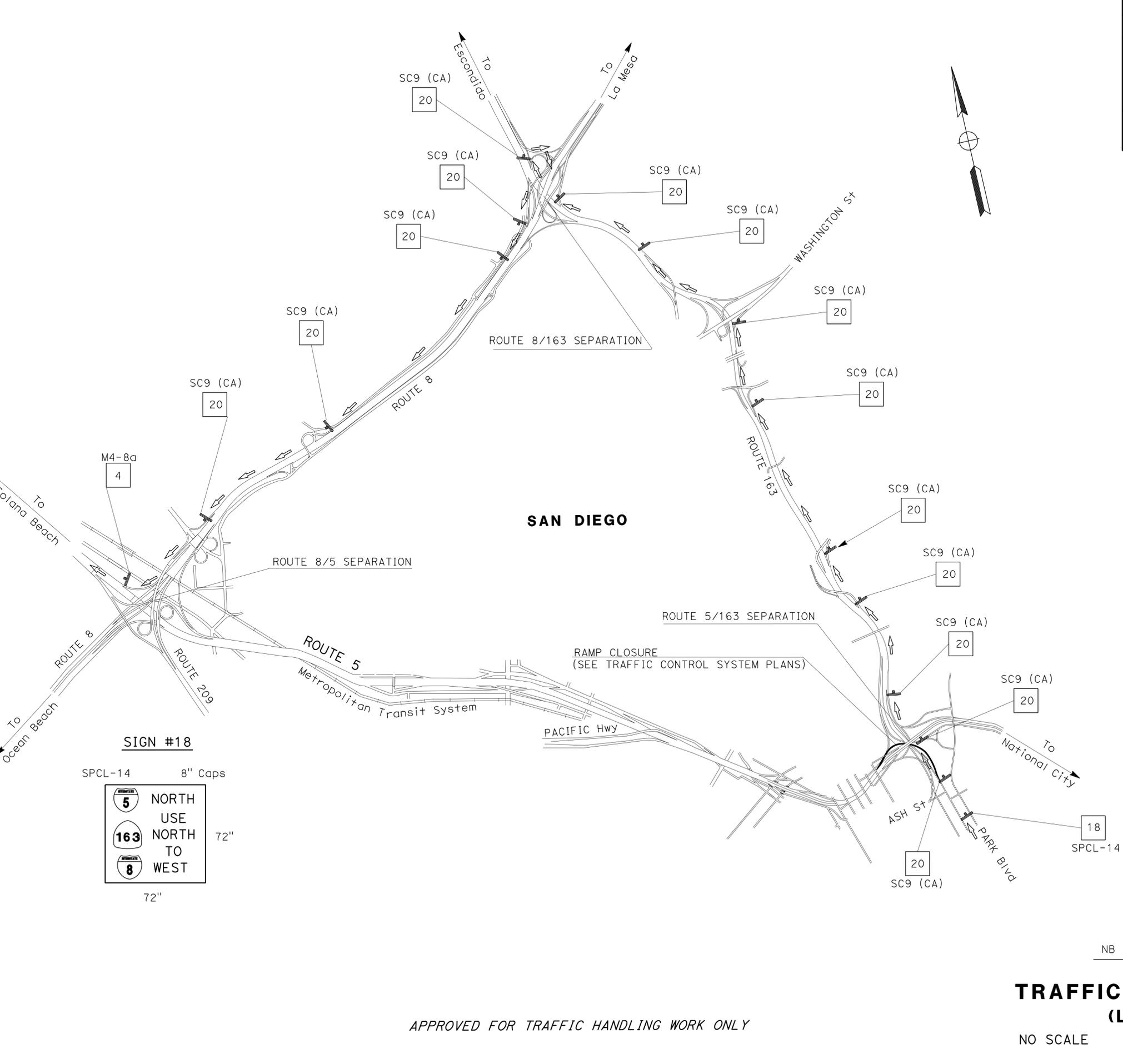
NO SCALE

TH-13

APPROVED FOR TRAFFIC HANDLING WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
MAINTENANCE ENGINEERING

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



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,67,94,163	Var	16	47

REGISTERED CIVIL ENGINEER DATE 02-07-13
 02-25-13
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MICHAEL H. VASQUEZ
 No. C56329
 Exp. 12-31-14
 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.

BORDER LAST REVISED 7/2/2010

USERNAME => s127400
 DGN FILE => 1112000123md014.dgn

RELATIVE BORDER SCALE IS IN INCHES

UNIT 2773

PROJECT NUMBER & PHASE 11120001231

TRAFFIC HANDLING PLAN
(LOCATION 23)
TH-14

NO SCALE

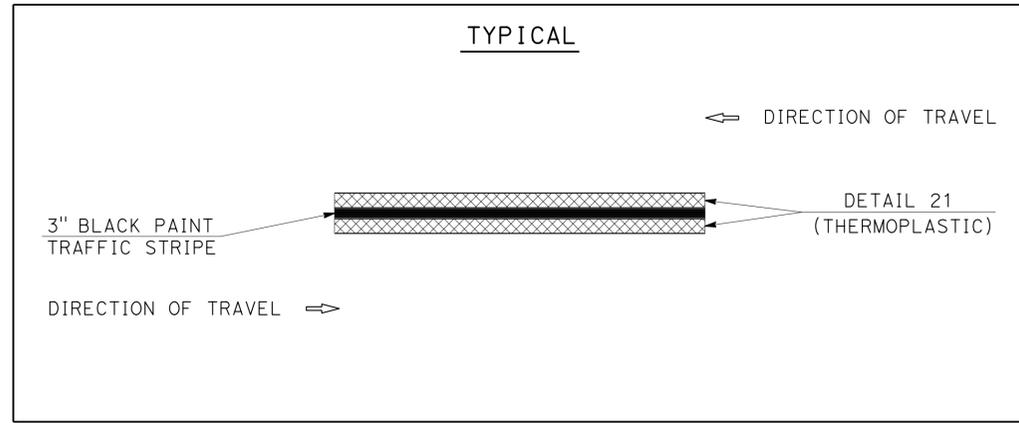
APPROVED FOR TRAFFIC HANDLING WORK ONLY

NB 163 CONNECTOR TO NB 5

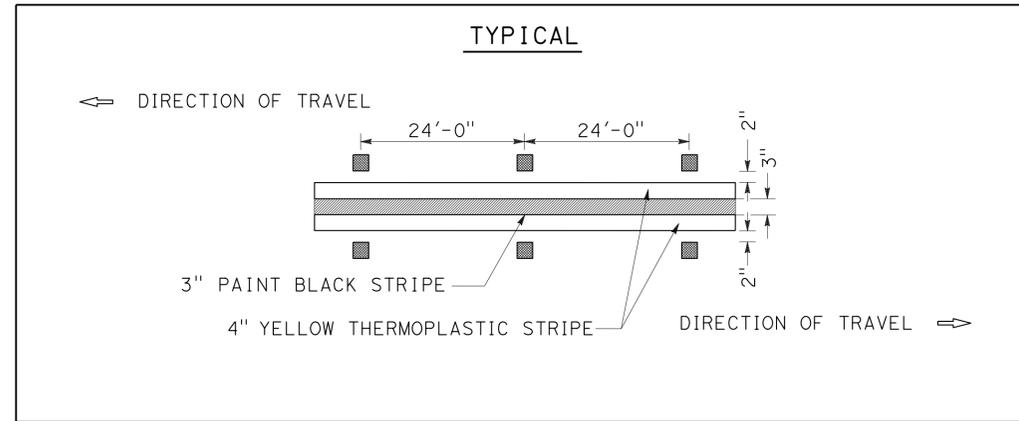
LAST REVISION | DATE PLOTTED => 04-MAR-2013
 02-14-13 | TIME PLOTTED => 11:43

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,67, 94,163	Var	17	47
<i>M. H. Vasquez</i> 02-07-13 REGISTERED CIVIL ENGINEER DATE			REGISTERED PROFESSIONAL ENGINEER MICHAEL H. VASQUEZ No. C56329 Exp. 12/31/14 CIVIL STATE OF CALIFORNIA		
02-25-13			PLANS APPROVAL DATE		
<small>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.</small>					

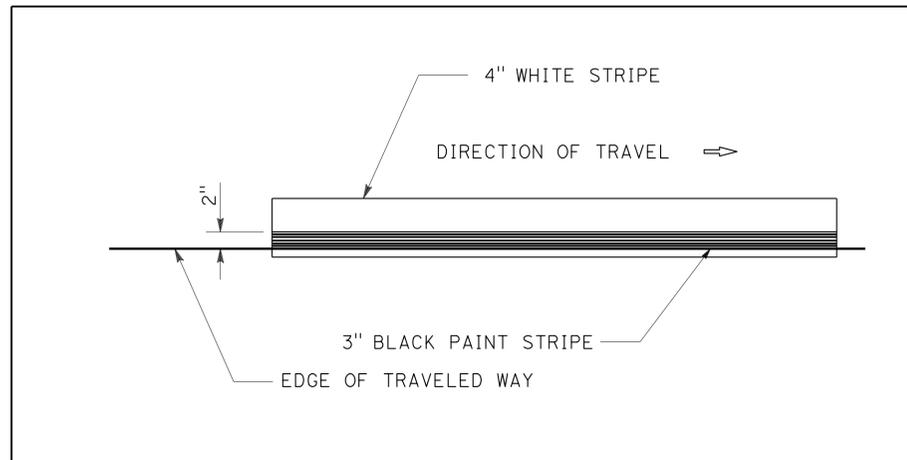
DETAIL 21 (Mod)



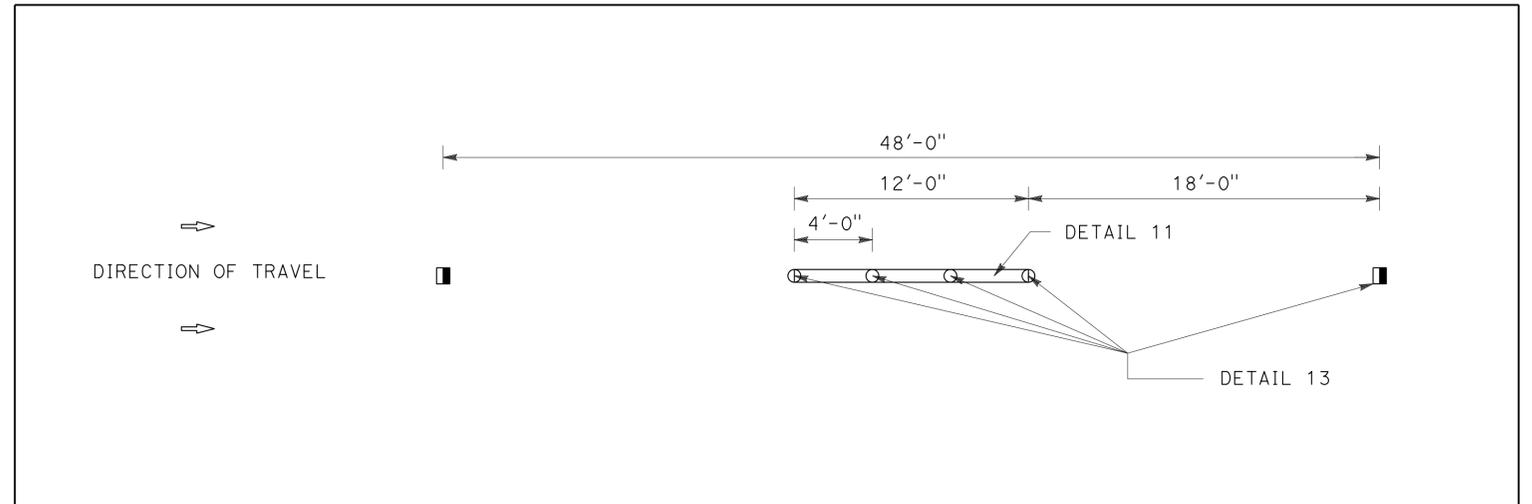
DETAIL 22 (Mod)



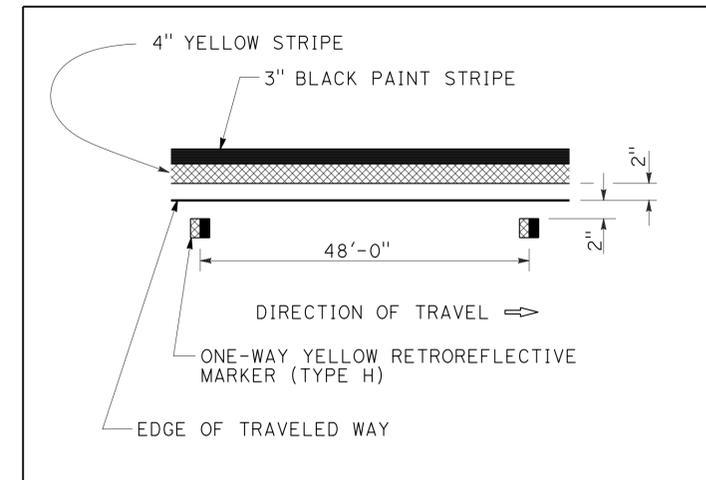
DETAIL 27B (Mod)



DETAIL 11/13 COMBINATION



DETAIL 25 (Mod)



PAVEMENT DELINEATION DETAILS

NO SCALE

PDD-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Maintenance Engineering
 Eyerusalem Tadesse
 Michael Vasquez
 Alberto Gayon

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,67,94,163	Var	18	47

REGISTERED CIVIL ENGINEER DATE 02-07-13
 REGISTERED CIVIL ENGINEER DATE 02-25-13
 PLANS APPROVAL DATE

No. C56329
 Exp. 12/31/14
 CIVIL

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
1	5	R13.90	57- 0846G	11/13, 25 (Mod), 27B (Mod)	4,129
2	5	R14.16	57- 0939H	11/13, 25 (Mod), 27B (Mod), 8	9,437
3	5	R14.74	57- 0451	21 (Mod)	756
4	5	R15.00	57-0418S	25(Mod), 27B (Mod)	886
5	5	R15.18	57-0423	9, 22(Mod)	1,274
9	5	R22.87	57-0287R	11/13, 25 (Mod), 27B (Mod)	478
11	5	R25.93	57-0519F	11/13, 25 (Mod), 27B (Mod),	911
16	8	14.95	57-0369	11/13, 25 (Mod), 27B (Mod)	2,494
18	8	R56.78	57-0756R	11, 27B (Mod), 25 (Mod)*	3,506
19	67	R0.16	57-0557F	11/13, 27B (Mod), 25 (Mod)*	888
20	67	R5.19	57-0562L	11/13, 25 (Mod), 27B (Mod)	503
21	94	R10.72	57-0803	22(Mod), 27B	3,126
22	94	15.27	57-0962	27B (Mod), 22 (Mod)*	2,450
23	163	0.88	57-0932G	25 (Mod)*	408
TOTAL					31,246

* - BLACK PAINT ONLY.

REMOVE THERMOPLASTIC TRAFFIC STRIPE

LOCATION	ROUTE	POSTMILE	BRIDGE No.	DETAIL	LF
2	5	R14.16	57-0939H	36A	230
16	8	14.95	57-0369	37	225
23	163	0.88	57-0392G	38	1,088
TOTAL					1,543

REMOVE YELLOW PAINTED TRAFFIC STRIPE (HAZARDOUS WASTE)

LOCATION	ROUTE	POSTMILE	BRIDGE No.	DETAIL	LF
18	8	R56.78	57-0756R	25 (Mod)	1,275
19	67	R0.16	57-0557F	25 (Mod)	323
22	94	15.27	57-0962	22 (Mod)	980
23	163	0.88	57-0392G	25 (Mod)	544
TOTAL					3,122

THERMOPLASTIC PAVEMENT MARKING (ENHANCED WET NIGHT VISIBILITY)

LOCATION	ROUTE	8" 45 DEGREE DIAGONAL SQFT
23	163	820
TOTAL		820

REMOVE PAVEMENT MARKER (EA) (N)

LOCATION	ROUTE	POSTMILE	BRIDGE No.	TYPE			
				A	D	G	H
1	5	R13.90	57-0486G	92		24	23
2	5	R14.16	57-0939H	148		16	15
4	5	R15.00	57-0418S				7
5	5	R15.18	57-0423		34	17	
9	5	R22.87	57-0287R	28		8	2
11	5	R25.93	57-0519F	20		6	7
16	8	14.95	57-0369	140		67	12
18	8	R56.78	57-0756R				27
19	67	R0.16	57-0557F	28		8	7
20	67	R5.19	57-0562L	12		4	3
21	94	R10.72	57-0803		57		
22	94	15.27	57-0962		43		
23	163	0.88	57-0392G			24	11
SUBTOTAL				468	134	174	114
TOTAL				890			

(N) NOT A SEPARATE PAY ITEM FOR INFORMATION ONLY

REMOVE THERMOPLASTIC PAVEMENT MARKING

LOCATION	ROUTE	8" 45 DEGREE DIAGONAL SQFT
23	163	820
TOTAL		820

PAVEMENT DELINEATION QUANTITIES

PDQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING
 FUNCTIONAL SUPERVISOR ALBERTO GAYON
 CALCULATED/DESIGNED BY CHECKED BY
 EYERUSALEM TADESSE MICHAEL VASQUEZ
 REVISED BY DATE REVISOR
 REVISIONS

LAST REVISION DATE PLOTTED => 04-MAR-2013
 02-14-13 TIME PLOTTED => 11:43

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,67,94,163	Var	19	47

REGISTERED CIVIL ENGINEER DATE 02-07-13
 REGISTERED CIVIL ENGINEER DATE 02-25-13
 PLANS APPROVAL DATE

MICHAEL H. VASQUEZ
 No. C56329
 Exp. 12/31/14
 CIVIL

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

PAVEMENT DELINEATION QUANTITIES

LOCATION			PAVEMENT MARKER SUMMARY				TRAFFIC STRIPE SUMMARY						
LOCATION	ROUTE	DETAIL No.	PAVEMENT MARKER (EA)				PAINT (1 COAT)	THERMOPLASTIC ENHANCED WET NIGHT VISIBILITY (LF)					
			NON-REFLECTIVE		RETROREFLECTIVE			3"-BLACK (LF)	4 INCH			8 INCH	
			TYPE A WHITE	TYPE D YELLOW	TYPE G CLEAR	TYPE H YELLOW	SOLID 4"		BROKEN 36'-12'	BROKEN 17'-7'	SOLID 8'	BROKEN 12'-3'	
1	5	11/13	92		24				1,101				
		25 (Mod)				23	1,101	1,101					
		27B (Mod)					1,101	1,101					
2	5	8									130		
		36A			6						115		
		11/13	148		38				1,790				
		25 (Mod)				52	2,500	2,500					
3	5	27B (Mod)					2,615	2,615					
		21 (Mod)					275	550					
4	5	25 (Mod)				7	253	253					
		27B (Mod)					253	253					
5	5	9			17						764		
		22 (Mod)		34			382	764					
9	5	11/13	28		8						325		
		25 (Mod)				2	87	87					
		27B (Mod)					138	138					
11	5	11/13	20		6						243		
		25 (Mod)				7	243	243					
		27B (Mod)					243	243					
16	8	11/13	140		36						1,686		
		25 (Mod)				12	592	592					
		27B (Mod)					592	592					
18	8	37			31							592	
		11									1,275		
		25 (Mod)				27	1,275	1,275					
19	67	27B (Mod)					1,275	1,275					
		11/13	28		8						323		
20	67	25 (Mod)				7	323	323					
		27B (Mod)					323	323					
		11/13	12		4						134		
21	94	25 (Mod)				3	134	134					
		27B (Mod)					134	134					
22	94	22 (Mod)		57			658	1,316					
		27B (Mod)					1,316	1,316					
23	163	27B (Mod)					980	980					
		22 (Mod)		43			490	980					
23	163	25 (Mod)				11	544	544					
		38			24						544		
SUB TOTAL			468	134	202	151	17,827	19,632	6,877	894	659	592	
TOTAL			468		487		17,827	19,632	6,877	894	659	592	

PAVEMENT DELINEATION QUANTITIES PDQ-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING
 FUNCTIONAL SUPERVISOR ALBERTO GAYON
 CALCULATED/DESIGNED BY CHECKED BY
 EYERUSALEM TADESSE MICHAEL VASQUEZ
 REVISED BY DATE REVISED
 x x x x x x x x x x



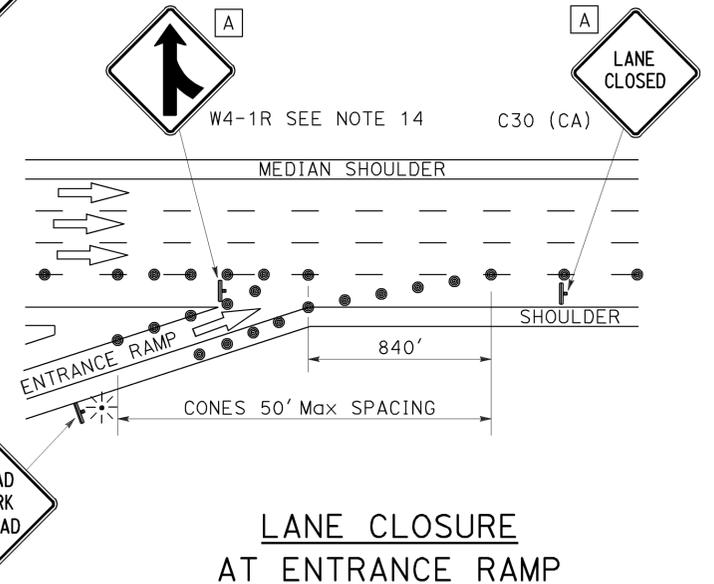
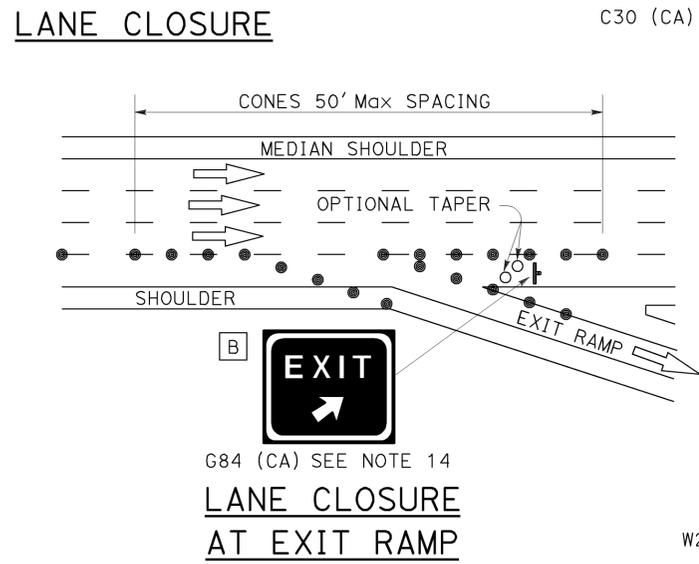
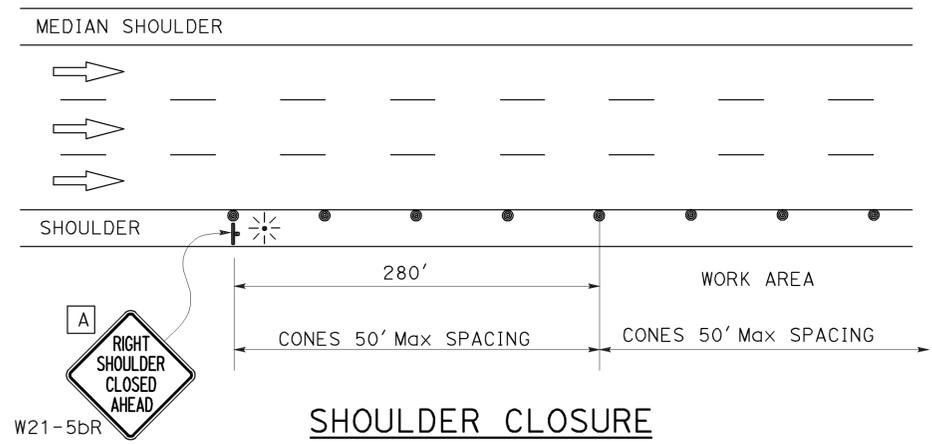
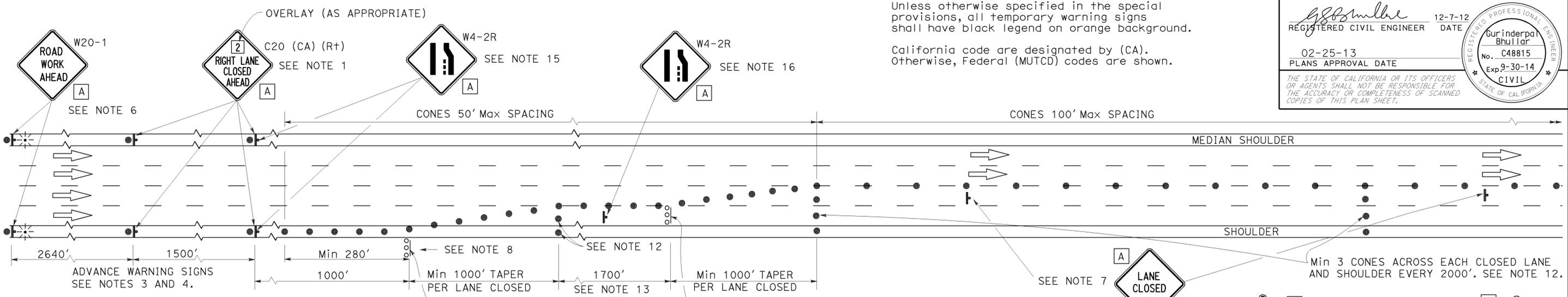
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,67,94,163	Var	20	47

REGISTERED CIVIL ENGINEER	DATE 12-7-12
02-25-13 PLANS APPROVAL DATE	

PROFESSIONAL ENGINEER	Gurinderpal Bhullar
No.	C48815
Exp.	9-30-14
CIVIL	

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:
 Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on orange background.
 California code are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.



- NOTES:**
- Median lane closures shall conform to the details for outside lane closures except that C20 (CA) (Lt) signs shall be used.
 - At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
 - Duplicate sign installations are not required:
 - On opposite shoulder if at least one-half of the available lanes remain open to traffic.
 - In the median if the width of the median shoulder is less than 8' and the outside lanes are to be closed.
 - Each advance warning sign on each side of the roadway shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
 - A C14 (CA) "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within a larger project's limits.
 - If the W20-1 sign would follow within 2000' of a stationary W20-1 or C11 (CA) "ROAD WORK NEXT _____ MILES", use a C20 (CA) sign for the first advance warning sign.
 - Place a C30 (CA) sign every 2000' throughout length of lane closure.
 - One flashing arrow sign for each lane closed. The first flashing arrow sign shall be Type I. All others may be either Type I or Type II.
 - A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at top of crest vertical curve or on a horizontal curve.
 - All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
 - Portable delineators, placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.
 - Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000' as shown on the "Lane Closure" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
 - Unless otherwise specified in the special provisions, the 1700' tangent shown along lane lines shall be used between the 1000' tapers required for each closed traffic lane.
 - Unless otherwise specified in the special provisions, the G84 (CA) and W4-1 signs shall be used as shown.
 - When specified in the special provisions, a W4-2 "LANE ENDS" symbol sign is to be used in place of the C20 (CA) "RIGHT LANE CLOSED AHEAD" sign.
 - The W4-2 "LANE ENDS" symbol sign shown at this location is to be used where the W4-2 sign is used as advance warning as described in Note 15.

SIGN PANEL SIZE (Min)

A	48" x 48"
B	54" x 48"

LEGEND

●	TRAFFIC CONE
○	TRAFFIC CONE (OPTIONAL TAPER)
↑	TEMPORARY SIGN
⚡	FLASHING ARROW SIGN (FAS)
⊞	FAS SUPPORT OR TRAILER
⚡	PORTABLE FLASHING BEACON

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
 FOR LANE CLOSURE ON
 FREEWAYS AND EXPRESSWAYS**
 NO SCALE
TCS-1

REVISOR: [] DATE: []
 CALCULATED/DESIGNED BY: [] CHECKED BY: []
 FUNCTIONAL SUPERVISOR: []
 DEPARTMENT OF TRANSPORTATION
 STATE OF CALIFORNIA
 Et-Trans

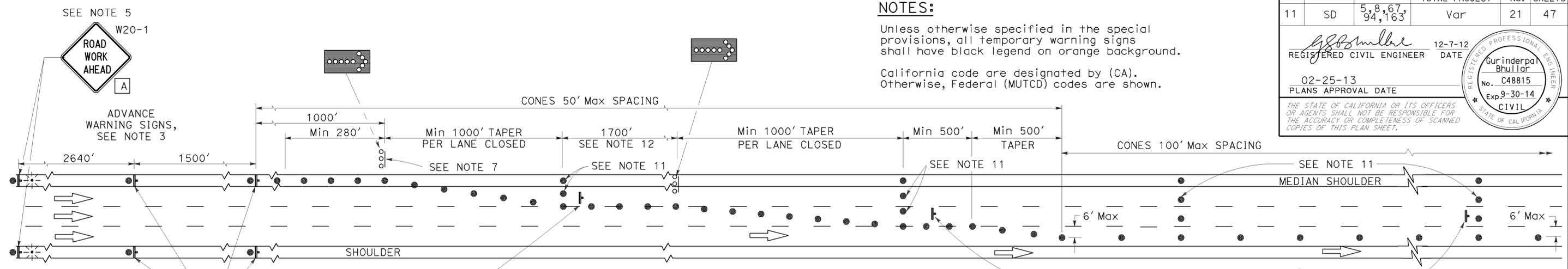
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5, 8, 67, 94, 163	Var	21	47

REGISTERED CIVIL ENGINEER	12-7-12	DATE
Gurinderpal Bhullar		
No. C48815		
Exp. 9-30-14		
CIVIL		

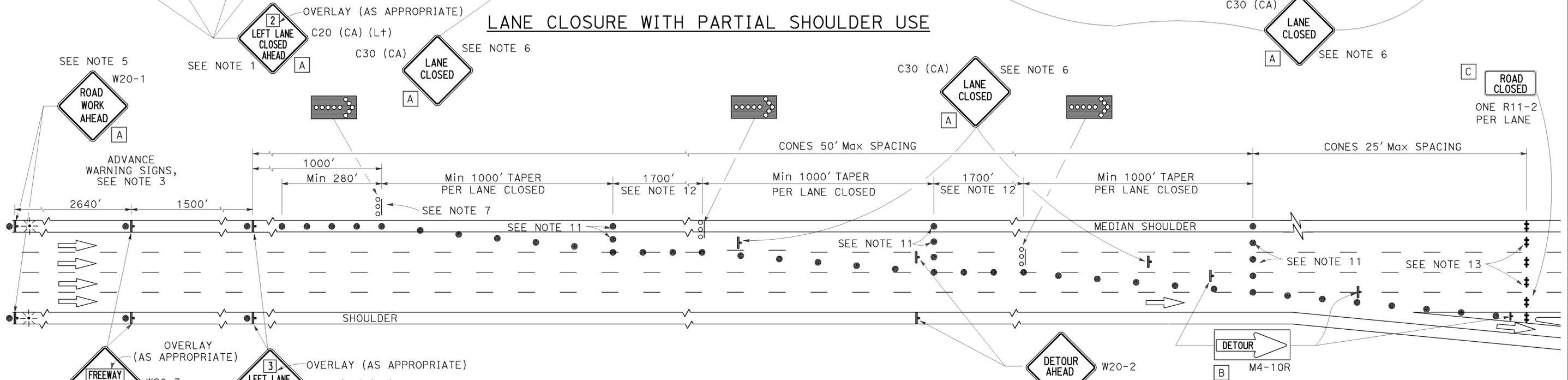
02-25-13
PLANS APPROVAL DATE

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NOTES:
 Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on orange background.
 California code are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.



LANE CLOSURE WITH PARTIAL SHOULDER USE



COMPLETE CLOSURE

NOTES:

- Lane closures on the right side using partial median shoulder as a traffic lane shall conform to the details for inside lane closure except that C20 (CA) (Rt) signs shall be used.
- At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
- Each advance warning sign on each side of the roadway shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" X 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
- A C14 (CA) "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within a larger project's limits.
- If the W20-1 sign would follow within 2000' of a stationary W20-1 or C11 (CA) "ROAD WORK NEXT ___ MILES", use a C20 (CA) sign for the first advance warning sign.
- Place a C30 (CA) sign every 2000' throughout length of lane closure.
- One flashing arrow sign for each lane closed. The first flashing arrow sign shall be Type I. All others may be either Type I or Type II.
- A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at the top of crest vertical curve or on a horizontal curve.
- All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
- Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000' as shown on the "Lane Closure With Partial Shoulder Use" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
- Unless otherwise specified in the special provisions, the 1700' tangent shown along lane lines shall be used between the 1000' tapers required for each closed traffic lane.
- A minimum of Two Type II barricades shall be placed across each closed lane and shoulder at the location shown and every 2000' within the complete closure area. Within the complete closure area, the transverse alignment of the barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
- When specified in the special provisions, a W20-2 "DETOUR AHEAD" sign is to be used in place of the W20-3 "FREEWAY CLOSED AHEAD" sign.

LEGEND

- TRAFFIC CONE
- † TEMPORARY SIGN
- ‡ BARRICADE
- FLASHING ARROW SIGN (FAS)
- FAS SUPPORT OR TRAILER
- ☀ PORTABLE FLASHING BEACON

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 48" x 18"
- C 48" x 30"

TRAFFIC CONTROL SYSTEM FOR LANE AND COMPLETE CLOSURES ON FREEWAYS AND EXPRESSWAYS

NO SCALE

TCS-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Et Caltrans®
 REVISIONS: 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5, 8, 67, 94, 163	Var	23	47

12-7-12 DATE
 REGISTERED CIVIL ENGINEER
 02-25-13 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.

Gurinderpal Bhullar
 No. C48815
 Exp. 9-30-14
 CIVIL

LEGEND

- TRAFFIC CONE
- ⊥ TEMPORARY SIGN
- ⬇ FLASHING ARROW SIGN (FAS)
- FAS SUPPORT OR TRAILER
- ⊛ PORTABLE FLASHING BEACON

TABLE 1

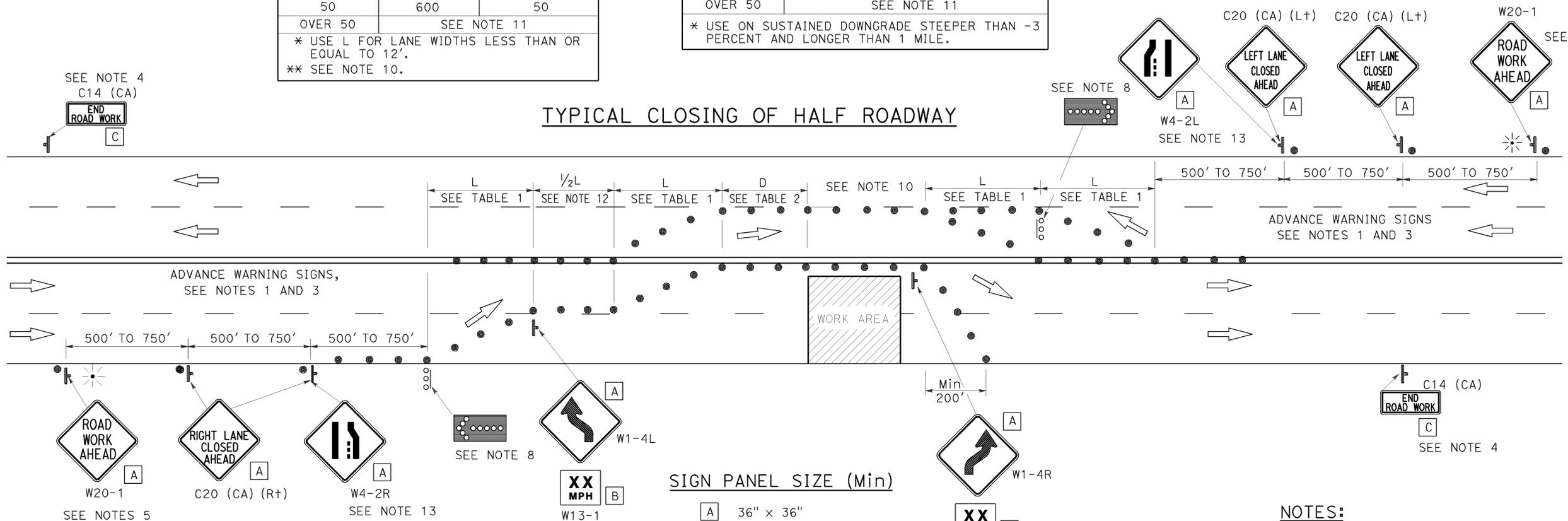
APPROACH SPEED	* MINIMUM L	** Max SPACING OF CONES ALONG TAPER
mph	ft	ft
20 and below	80	20
25	125	25
30	180	30
35	245	35
40	320	40
45	540	45
50	600	50
OVER 50	SEE NOTE 11	

* USE L FOR LANE WIDTHS LESS THAN OR EQUAL TO 12'.
 ** SEE NOTE 10.

TABLE 2

APPROACH SPEED	MINIMUM D	DOWNGRADE MINIMUM D *		
		-3%	-6%	-9%
mph	ft	ft	ft	ft
25 AND BELOW	155	158	165	173
30	200	205	215	227
35	250	257	271	287
40	305	315	333	354
45	360	378	400	427
50	425	446	474	507
OVER 50	SEE NOTE 11			

* USE ON SUSTAINED DOWNGRADE STEEPER THAN -3 PERCENT AND LONGER THAN 1 MILE.



SIGN PANEL SIZE (Min)

- A 36" x 36"
- B 24" x 24"
- C 36" x 18"

NOTES:

- Where Approach speeds are low, advance warning signs may be placed at 300' spacing and placed closer in urban areas.
- At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closure unless, otherwise directed by the Engineer.
- Each advance warning sign in each direction of travel shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
- A C14 (CA) "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious, or ends within a larger project's limits.
- If the W20-1 sign would follow within 2000' of a stationary W20-1 or C11 (CA) "ROAD WORK NEXT MILES", use a C20 (CA) sign for the first advance warning sign.
- All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
- Flashing arrow signs shall be either Type I or Type II.
- Advisory speed will be determined by the Engineer. The W13-1 Sign will not be required when advisory speed is more than the posted or maximum speed limit.
- The maximum spacing between cones along a tangent shall be 50' and along a taper shall be approximately as shown in Table 1.
- For approach speeds over 50 mph, use the "Traffic Control System For Lane Closure On Freeways And Expressways" plan for lane closure details and requirements.
- Unless otherwise specified in the special provisions, the (1/2 L) shown between the two (L) lane closure tapers shall be used.
- When specified in the special provisions, a W4-2 "Lane Ends" symbol sign is to be used in place of the C20 (CA) "RIGHT (LEFT) LANE CLOSED AHEAD" sign.

NOTES:

Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on orange background.

California code are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

**TRAFFIC CONTROL SYSTEM
 FOR LANE CLOSURE ON
 MULTILANE CONVENTIONAL
 HIGHWAYS**

NO SCALE

TCS-4

REVISOR BY
 DATE

CALCULATED/DESIGNED BY
 CHECKED BY

FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Et Caltrans

TYPICAL RAMP CLOSURES

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 48" x 30"
- C 30" x 30"
- D 48" x 48" - SPEED OF 50 mph OR MORE
36" x 36" - SPEED LESS THAN 50 mph
- E 48" x 36"

LEGEND

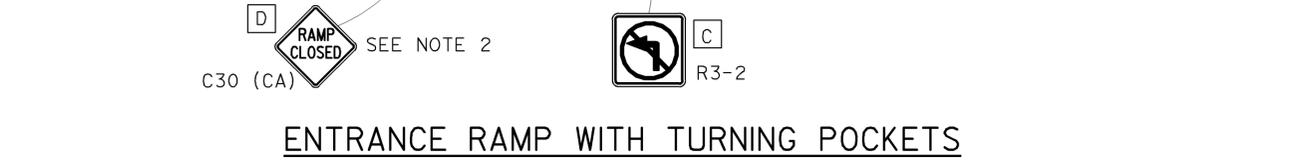
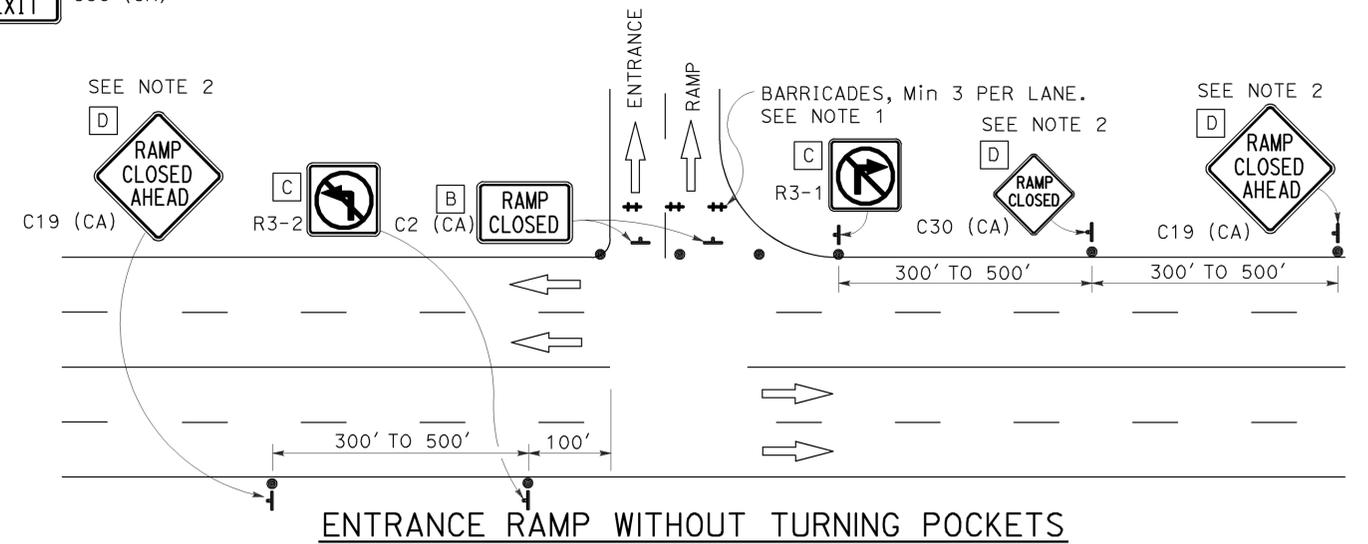
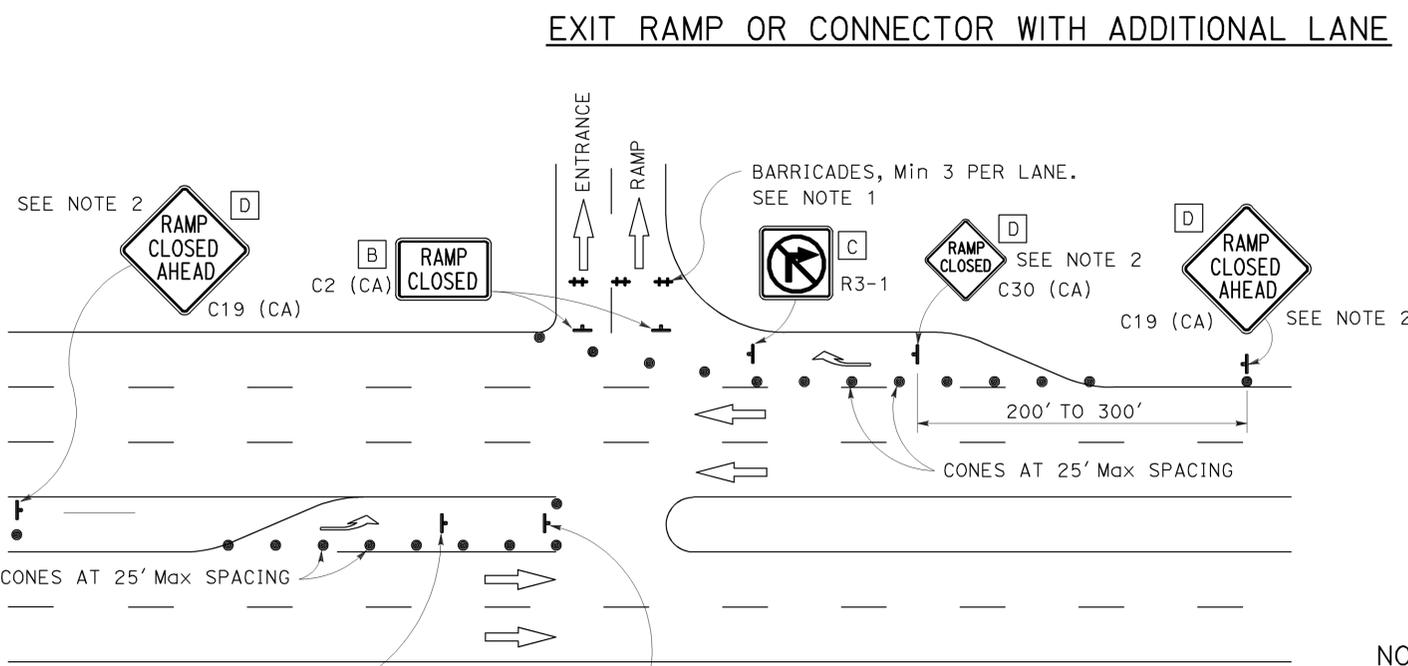
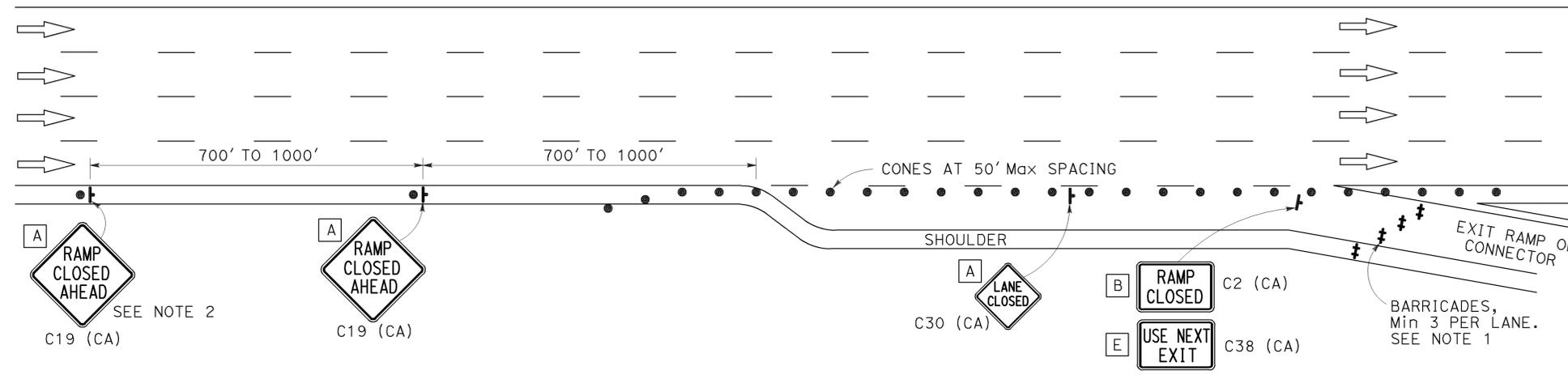
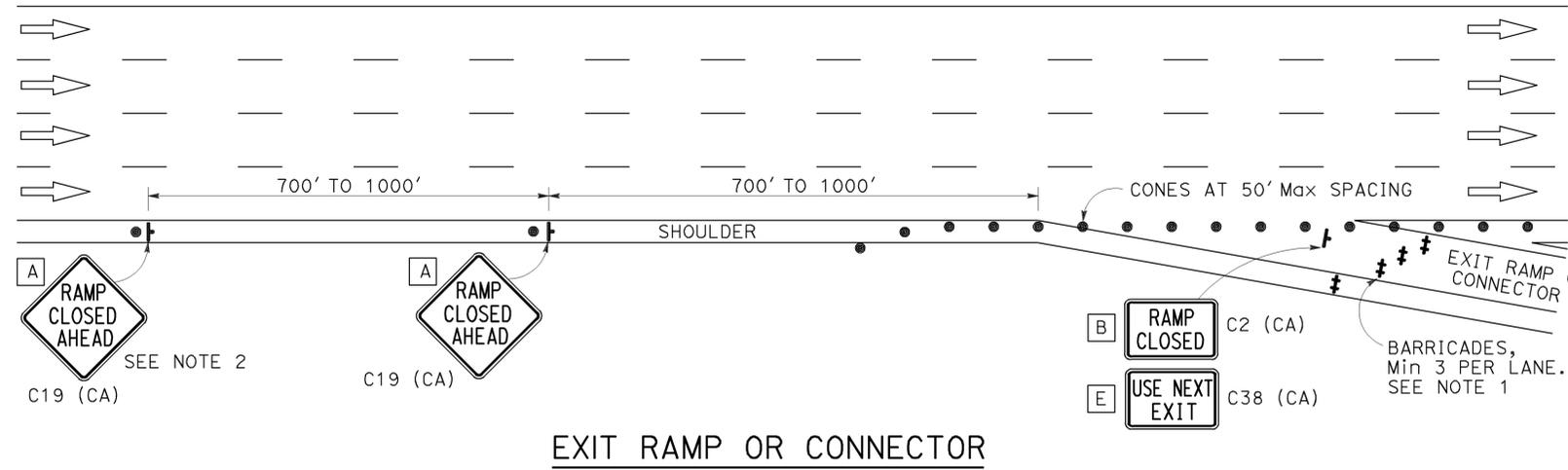
- TRAFFIC CONE
- † TEMPORARY SIGN
- ‡ BARRICADES

NOTES:

- Barricades shall be Type I, II, or III for closures lasting one week or less and Type III for closures lasting longer than one week.
- In addition to placing the C19 (CA) "RAMP CLOSED AHEAD" and C30 (CA) "RAMP CLOSED" signs, black on orange overlay plates with the word "CLOSED" may be mounted, as directed by the Engineer, on all guide signs that refer to the closed ramp. The letter size on the overlay shall be the same as the guide sign.
- Each advance C19 (CA) "RAMP CLOSED AHEAD" sign shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color.
- All cones used for ramp closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime ramp closures only.
- At least one person shall be assigned to provide full time maintenance of traffic control devices, unless otherwise directed by the Engineer.
- The existing "EXIT" sign in the gore area shall be covered during ramp closures.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5, 8, 67, 94, 163	Var	25	47

REGISTERED CIVIL ENGINEER
 12-7-12 DATE
 02-25-13 PLANS APPROVAL DATE
 Gurinderpal Bhullar
 No. C48815
 Exp. 9-30-14
 CIVIL
 STATE OF CALIFORNIA



NOTES:

- Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on orange background.
- California code are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURE

NO SCALE

TCS-6

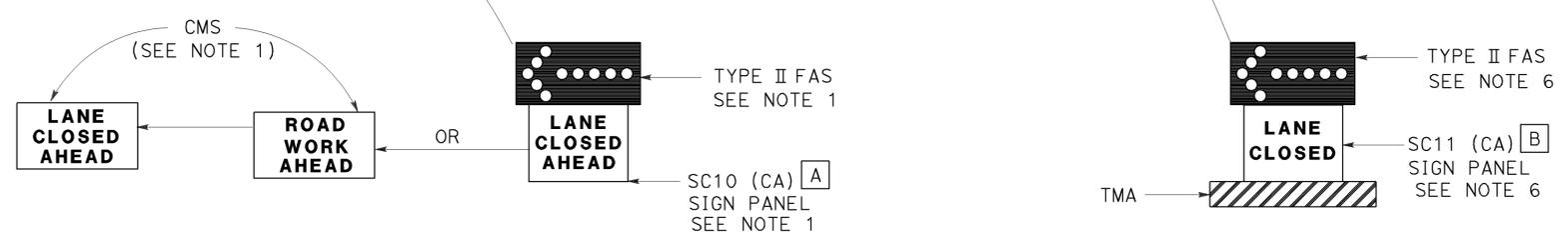
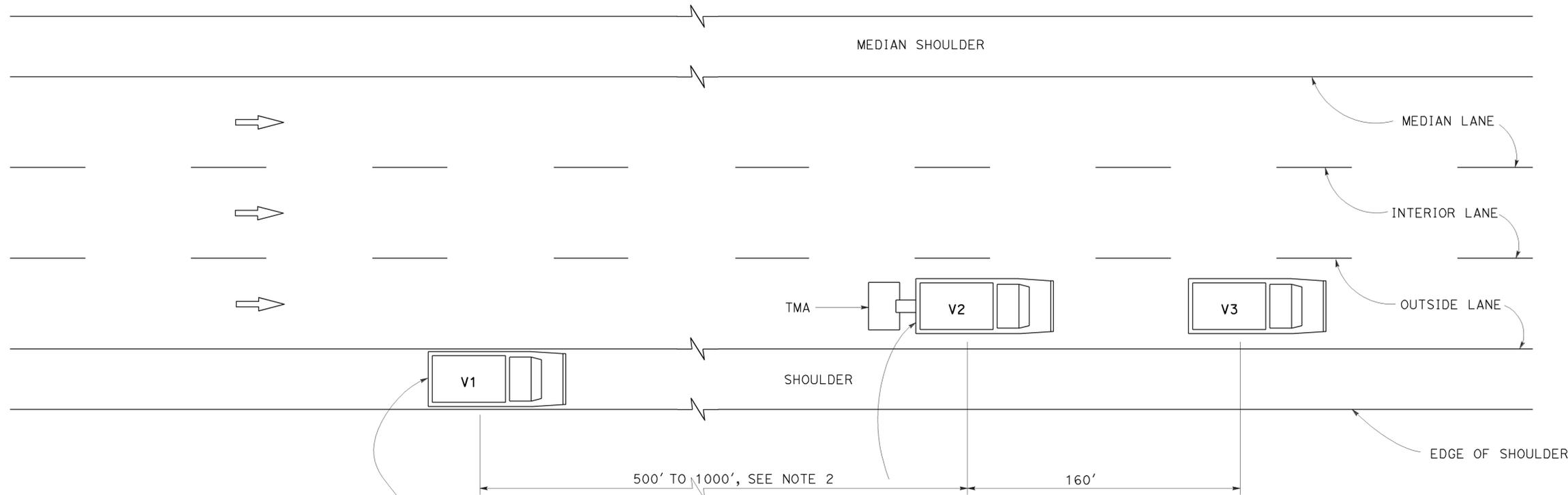
REVISOR: [] DATE: []
 CALCULATED/DESIGNED BY: [] CHECKED BY: []
 FUNCTIONAL SUPERVISOR: []
 DEPARTMENT OF TRANSPORTATION
 STATE OF CALIFORNIA
 Caltrans

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5, 8, 67, 94, 163	Var	26	47

REGISTERED CIVIL ENGINEER: *Gurinderpal Bhullar* 12-7-12 DATE
 02-25-13 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER: Gurinderpal Bhullar
 No. C48815
 Exp. 9-30-14
 CIVIL

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 PANEL SIZE (Min)

- [A] 66" x 36"
- [B] 54" x 42"

LEGEND

- V1 SIGN VEHICLE
- V2 SHADOW VEHICLE
- V3 WORK/APPLICATION VEHICLE
- [Flashing Arrow Symbol] FLASHING ARROW SIGN (FAS)
- CMS CHANGEABLE MESSAGE SIGN
- TMA TRUCK-MOUNTED ATTENUATOR

MOVING LANE CLOSURE ON MEDIAN LANE OR OUTSIDE LANE OF MULTILANE HIGHWAYS

NOTES:

- Either a changeable message sign or a SC10 (CA) sign panel and a Type II flashing arrow sign shall be mounted on the rear of sign vehicle V1. A Type II flashing arrow sign shall be mounted on the rear of sign vehicle V1 and used with the SC10 (CA) sign panel. A Type II flashing arrow sign will not be required with the changeable message sign provided the flashing arrow sign symbol is displayed on the changeable message sign board. The changeable message sign shall be sequenced to show the "ROAD WORK AHEAD" message first, followed by the "LANE CLOSED AHEAD" message and then the flashing arrow sign symbol. For median lane closure, the flashing arrow sign symbol shall be reversed with the arrowhead on the right.
- If traffic queues develop, sign vehicle V1 should be positioned upstream from the end of queue. Sign vehicle V1 shall be positioned where highly visible when shoulders are not available.
- A minimum sight distance of 1500' should be provided in advance of sign vehicle V1.
- Sign vehicle V1 should remain at the beginning of horizontal or vertical curves until the other vehicles (V2 and V3) are far enough beyond the curve to resume the minimum sight distance of 1500'.
- Vehicle-mounted sign panels shall be Type III, IV, VII, VIII or IX retroreflective sheeting, black on white, black on orange, or black on fluorescent orange, with 6" minimum series D letters per Caltrans sign specifications.
- Gross Vehicle Weight of shadow vehicle V2 shall be a minimum of 20,000 pounds and shall be equipped with a truck-mounted attenuator. The sign panel shown and a Type II flashing arrow sign shall be mounted on the rear of shadow vehicle V2. For median lane closure the flashing arrow sign symbol shall be displayed with the arrowhead on the right.
- All vehicles used for lane closures shall be equipped with two-way radios, and the vehicle operators shall maintain communication during the work or application operation.
- Where sufficient shoulder width is not available, sign vehicle V1 may encroach into the traffic lane staying as close to the edge of shoulder as practicable. Both V1 and V2 shall be equipped with a truck-mounted attenuator. The Gross Vehicle Weight of V1 and V2 shall be at least 20,000 pounds, respectively.
- When multiple work vehicles are used in close proximity to each other, only one shadow vehicle is required, and spacing between work vehicles shall be minimized in order to deter traffic from entering the closed lane.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**TRAFFIC CONTROL SYSTEM
FOR MOVING LANE CLOSURE
ON MULTILANE HIGHWAYS
(OUTSIDE AND MEDIAN LANES)**

NO SCALE

TCS-7

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Et Caltrans®
 REVISIONS: []
 DESIGNED BY: []
 CHECKED BY: []
 CALCULATED/DESIGNED BY: []
 FUNCTIONAL SUPERVISOR: []
 REVISOR: []
 DATE: []
 DATE REVISOR: []
 DATE REVISOR: []

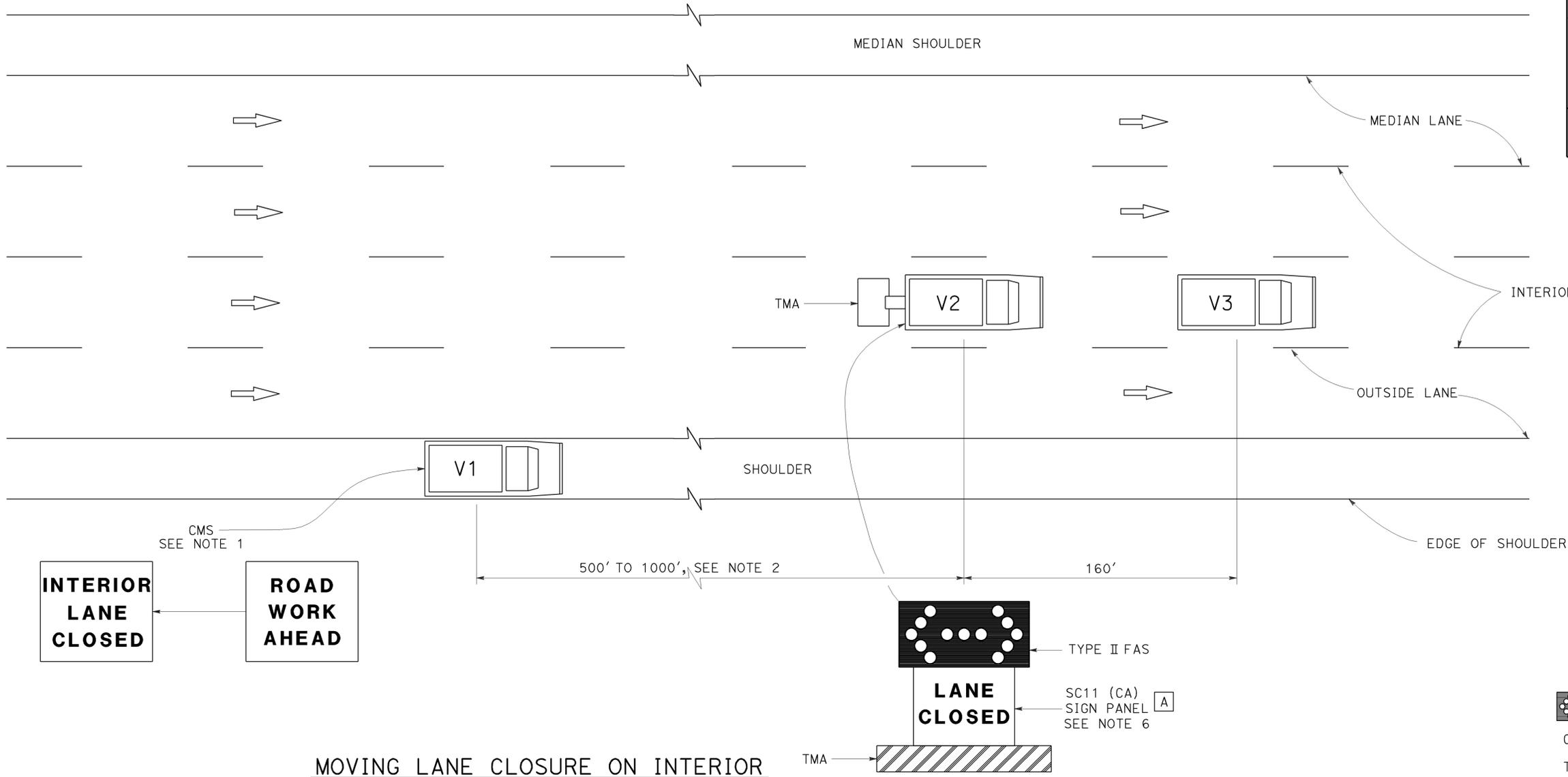
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5, 8, 67, 94, 163	Var	27	47

12-7-12
 REGISTERED CIVIL ENGINEER DATE
 02-25-13
 PLANS APPROVAL DATE

Gurinderpal Bhullar
 No. C48815
 Exp. 9-30-14
 CIVIL

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

V1	SIGN VEHICLE
V2	SHADOW VEHICLE
V3	WORK/APPLICATION VEHICLE
	FLASHING ARROW SIGN (FAS) IN FLASHING DOUBLE ARROW MODE
CMS	CHANGEABLE MESSAGE SIGN
TMA	TRUCK-MOUNTED ATTENUATOR

MOVING LANE CLOSURE ON INTERIOR LANE OF MULTILANE HIGHWAYS

NOTES:

1. A changeable message sign shall be mounted on the rear of sign vehicle V1. The changeable message sign shall be sequenced to show the "ROAD WORK AHEAD" message first, followed by the "INTERIOR LANE CLOSED" message. The message "CENTER LANE CLOSED" may be used in place of the "INTERIOR LANE CLOSED" message.
2. If traffic queues develop, sign vehicle V1 should be positioned upstream from the end of queue. Sign vehicle V1 shall be positioned where highly visible when shoulders are not available.
3. A minimum sight distance of 1500' should be provided in advance of sign vehicle V1.
4. Sign vehicle V1 should remain at the beginning of horizontal or vertical curves until the other vehicles (V2 and V3) are far enough beyond the curve to resume the minimum sight distance of 1500'.
5. Vehicle-mounted sign panels shall be Type III, IV, VII, VIII, or IX retroreflective sheeting, black on white, black on orange, or black on fluorescent orange, with 6" minimum series D letters per Caltrans sign specifications.
6. Gross Vehicle Weight of shadow vehicle V2 shall be a minimum of 20,000 pounds and shall be equipped with a truck-mounted attenuator. The sign panel shown and a Type II flashing arrow sign shall be mounted on the rear of shadow vehicle V2.
7. All vehicles used for lane closures shall be equipped with two-way radios, and the vehicle operators shall maintain communication during the work or application operation.
8. All vehicles shall be equipped with flashing or rotating amber lights.
9. Where sufficient shoulder width is not available, sign vehicle V1 may encroach into the traffic lane staying as close to the edge of shoulder as practicable. Both V1 and V2 shall be equipped with a truck-mounted attenuator. The Gross Vehicle Weight of V1 and V2 shall be at least 20,000 pounds, respectively.
10. When multiple work vehicles are used in close proximity to each other, only one shadow vehicle is required, and spacing between work vehicles shall be minimized in order to deter traffic from entering the closed lane.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**TRAFFIC CONTROL SYSTEM
FOR MOVING LANE CLOSURE
ON MULTILANE HIGHWAYS
(INTERIOR LANES)**

NO SCALE **TCS-8**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Functional Supervisor
 Calculated/Designed By
 Checked By
 Revised By
 Date Revised
 USERNAME => s114640
 DGN FILE => tcs16.dgn



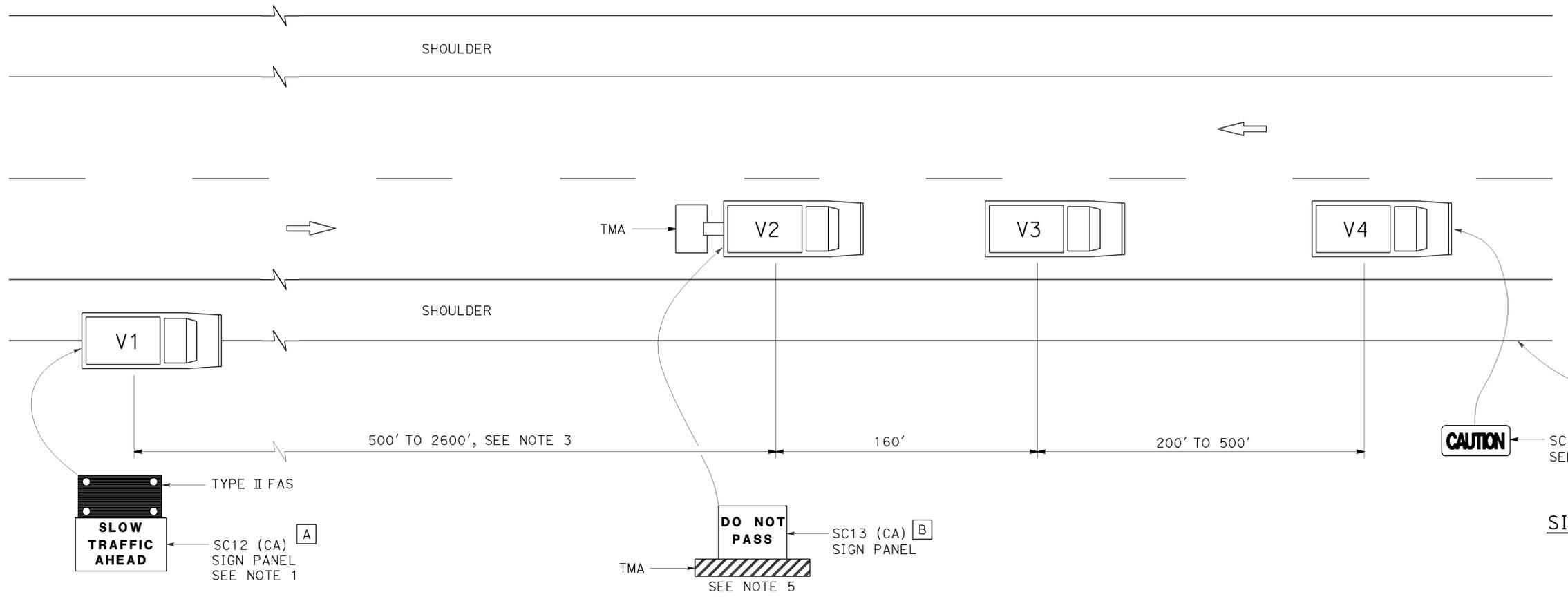
LAST REVISION | DATE PLOTTED => 10-DEC-2012
 02-25-13 | TIME PLOTTED => 09:45

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5, 8, 67, 94, 163	Var	28	47

12-7-12
 REGISTERED CIVIL ENGINEER DATE
 02-25-13
 PLANS APPROVAL DATE

Gurinderpal Bhullar
 No. C48815
 Exp. 9-30-14
 CIVIL

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 PANEL SIZE (Min)

- A 72" x 42"
- B 54" x 42"
- C 54" x 24"

LEGEND

- V1 SIGN VEHICLE
- V2 SHADOW VEHICLE
- V3 WORK/APPLICATION VEHICLE
- V4 SIGN VEHICLE
- TMA TRUCK-MOUNTED ATTENUATOR
- FLASHING ARROW SIGN (FAS) IN FLASHING CAUTION MODE

NOTES:

- Either a changeable message sign or a SC12 (CA) "SLOW TRAFFIC AHEAD" sign shall be mounted on the rear of sign vehicle V1. A Type II flashing arrow sign may be used with the SC12 (CA) sign panel.
- Sign vehicle V1 should be positioned where highly visible when shoulders are not available.
- If traffic queues develop, sign vehicle V1 should be positioned upstream from the end of queue.
- Vehicle-mounted sign panels shall be Type III, IV, VII, VIII or IX retroreflective sheeting, black on white, black on orange, or black on fluorescent orange, with 6" minimum series D letters per Caltrans sign specifications.
- Gross Vehicle Weight of shadow vehicle shall be a minimum of 20,000 pounds and shall be equipped with a truck-mounted attenuator. The sign panel shown shall be mounted on the rear of shadow vehicle V2. The message "LANE CLOSED" may be used in place of the "DO NOT PASS" message.
- The sign panel shown shall be mounted on the front of sign vehicle V4, facing opposing traffic.
- All vehicles shall be equipped with flashing or rotating amber lights.
- Sign vehicle V4 will not be required when the work and vehicles V2 and V3 are 2' or more from the centerline of the highway during the work or application operations.
- All vehicles used for lane closures shall be equipped with two-way radios and the vehicle operators shall maintain communication during the work or application operation.
- When multiple work vehicles are used in close proximity to each other, only one shadow vehicle is required and spacing between work vehicles shall be minimized in order to deter traffic from entering the closed lane.

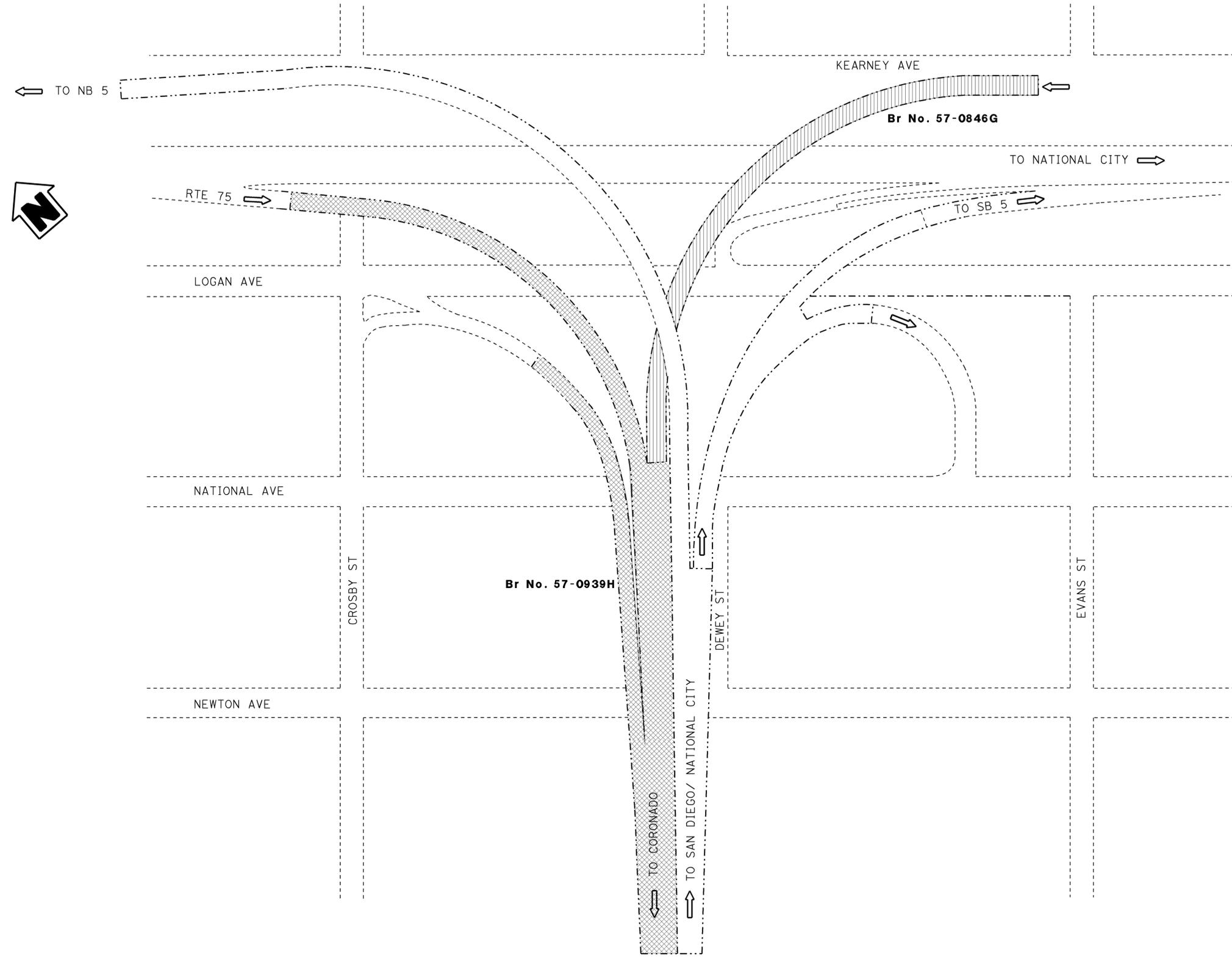
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
FOR MOVING LANE CLOSURE
ON TWO LANE HIGHWAYS**

NO SCALE

TCS-9

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Caltrans

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,67,94,163	Var	29	47
			01/18/13		
REGISTERED CIVIL ENGINEER			DATE		
02-25-13			PLANS APPROVAL DATE		
No. C66900			Exp. 09/30/14		
EDWARD J. NAHM			CIVIL		
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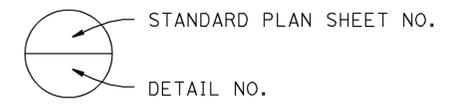


INDEX TO PLANS

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1	PARTIAL PROJECT PLAN
2	GENERAL PLAN NO. 1
3	GENERAL PLAN NO. 2
4	GENERAL PLAN NO. 3
5	GENERAL PLAN NO. 4
6	GENERAL PLAN NO. 5
7	GENERAL PLAN NO. 6
8	GENERAL PLAN NO. 7
9	GENERAL PLAN NO. 8
10	GENERAL PLAN NO. 9
11	GENERAL PLAN NO. 10
12	GENERAL PLAN NO. 11
13	GENERAL PLAN NO. 12
14	GENERAL PLAN NO. 13
15	GENERAL PLAN NO. 14
16	GIRDER REPAIR DETAILS NO. 1
17	GIRDER REPAIR DETAILS NO. 2
18	MISCELLANEOUS DETAILS NO. 1
19	MISCELLANEOUS DETAILS NO. 2

STANDARD PLANS 2010

SHEET NO.	TITLE
A10A	ABBREVIATIONS (SHEET 1 OF 2)
A10B	ABBREVIATIONS (SHEET 2 OF 2)
A10C	LINES AND SYMBOLS (SHEET 1 OF 3)
A10D	LINES AND SYMBOLS (SHEET 2 OF 3)
A10E	LINES AND SYMBOLS (SHEET 3 OF 3)
B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")



LEGEND:

Bridge Name	Br No.
N5-S75 CONNECTOR OC (see "GENERAL PLAN NO. 1" sheet)	57-0846G
S5-S75 CONNECTOR OC (see "GENERAL PLAN NO. 2" sheet)	57-0939H
-----	Indicates existing.
➔	Indicates direction of traffic.

SAN DIEGO - CORONADO BAY BRIDGE APPROACH RAMPS

NO SCALE

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 ENGINEER TONY D. BRAKE	DESIGN	BY Edward Nahm	CHECKED Tony Brake	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
	DETAILS	BY Tom Dang	CHECKED Tony Brake	LAYOUT	BY Tom Dang
	QUANTITIES	BY Edward Nahm	CHECKED Tony Brake	SPECIFICATIONS	BY Steve Seifert

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO. Various
		POST MILE Varies
	RTE 5,8,67,94,163 BRIDGES PARTIAL PROJECT PLAN	

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



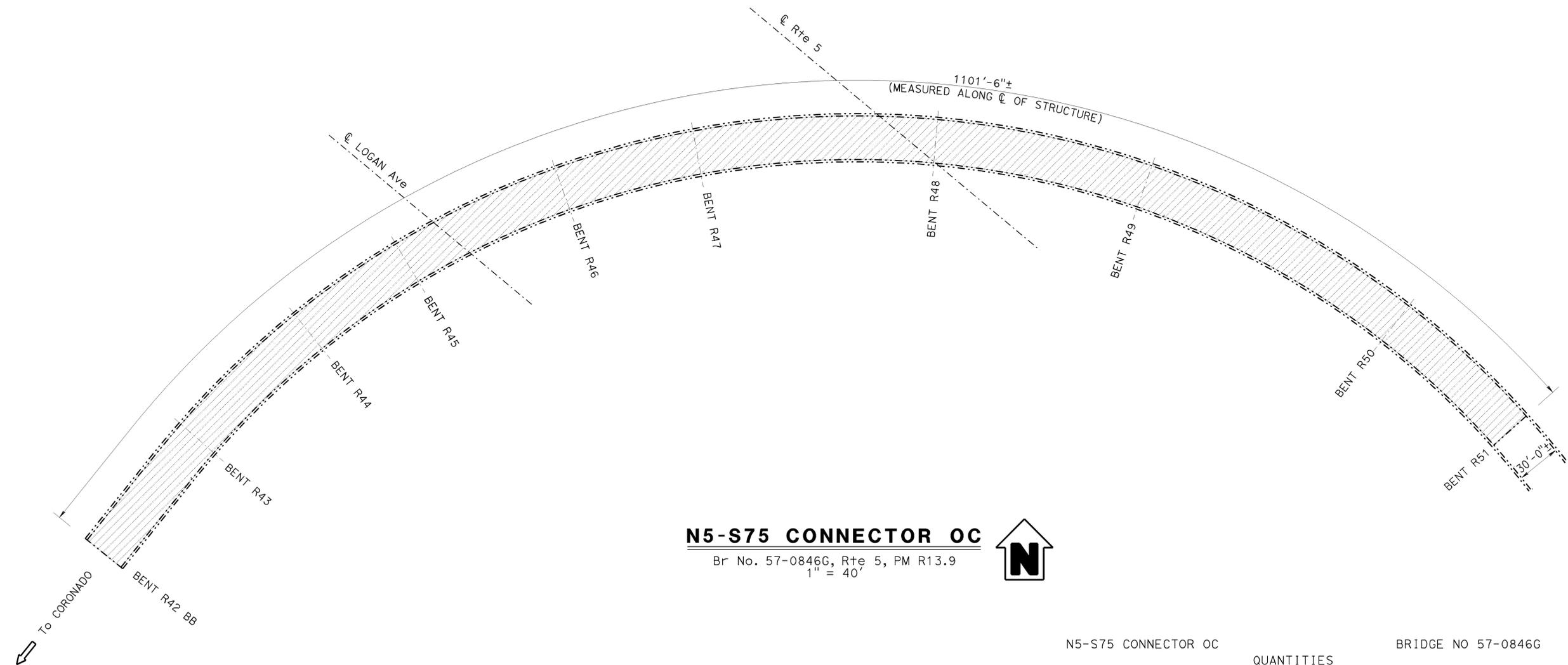
UNIT: 3489
PROJECT NUMBER & PHASE: 1112000123
CONTRACT NO.: 11-2M1501

DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 01 OF 19
---	----------------	----------------

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5, 8, 67, 94, 163	Var	30	47
 REGISTERED CIVIL ENGINEER			DATE	01/18/13	
PLANS APPROVAL DATE			02-25-13		
No. C66900 Exp. 09/30/14 CIVIL					
<small>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.</small>					

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.



N5-S75 CONNECTOR OC

Br No. 57-0846G, Rte 5, PM R13.9
 1" = 40'



N5-S75 CONNECTOR OC	QUANTITIES	BRIDGE NO 57-0846G
PUBLIC SAFETY PLAN		LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE		33,050 SQFT
TREAT BRIDGE DECK		33,050 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL		415 GAL

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.

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Edward Nahm	CHECKED Tony Brake	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
	DETAILS	BY Tom Dang	CHECKED Tony Brake	LAYOUT	BY Tom Dang
	QUANTITIES	BY Edward Nahm	CHECKED Tony Brake	SPECIFICATIONS	BY Steve Seifert

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	Various	RTE 5, 8, 67, 94, 163 BRIDGES GENERAL PLAN NO. 1
POST MILE	Varies	
REVISION DATES		
SHEET	02	OF
	19	

USERNAME => s129239 DATE PLOTTED => 17-JAN-2013 TIME PLOTTED => 2:11:14

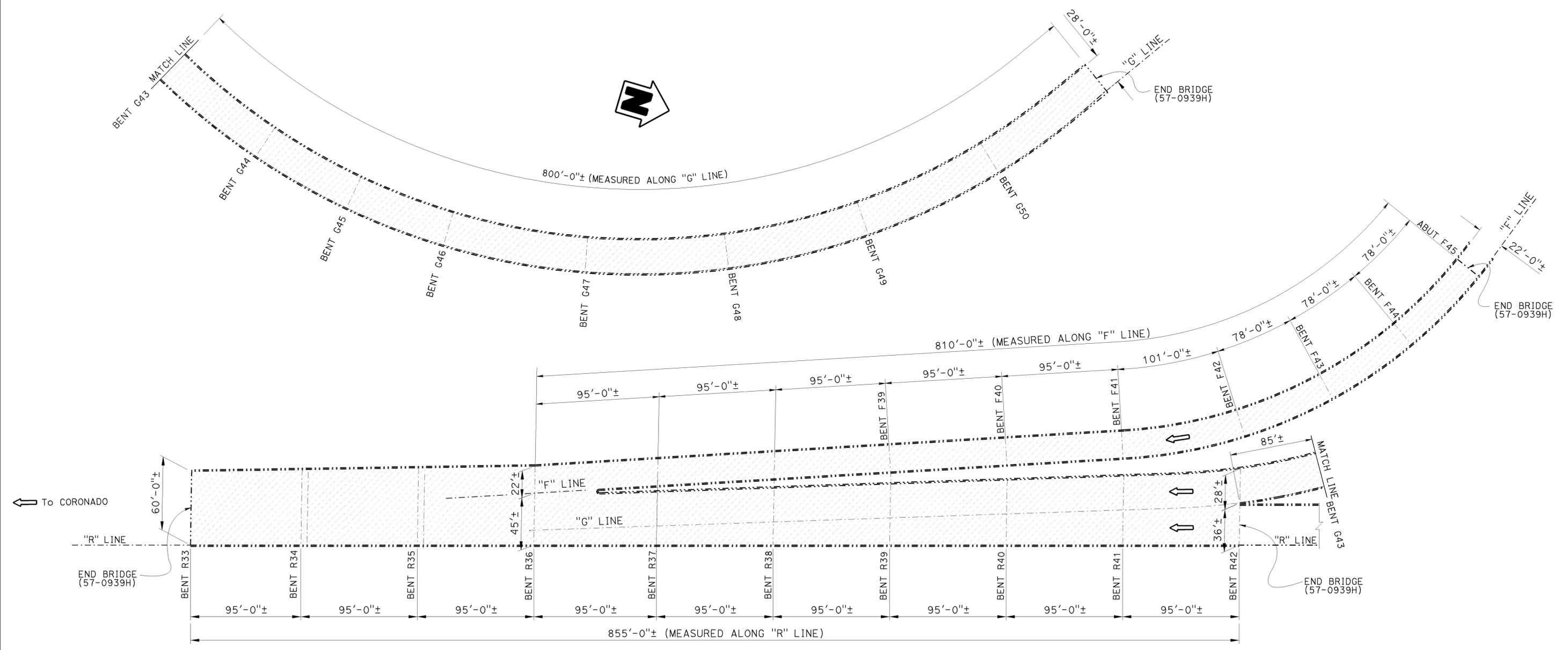
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5, 8, 67, 94, 163	Var	31	47

01/18/13
 REGISTERED CIVIL ENGINEER DATE
 02-25-13
 PLANS APPROVAL DATE
 No. C66900
 Exp. 09/30/14
 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 of prepare concrete bridge deck surface and treat existing bridge deck with high molecular weight methacrylate.

S5-S75 CONNECTOR OC	QUANTITIES	BRIDGE NO 57-0939H	LUMP SUM
PUBLIC SAFETY PLAN			91,760 SQFT
PREPARE CONCRETE BRIDGE DECK SURFACE			91,760 SQFT
TREAT BRIDGE DECK			1,150 GAL
FURNISH BRIDGE DECK TREATMENT MATERIAL			



S5-S75 CONNECTOR OC

Br No. 57-0939H, Rte 5, PM R14.16
NO SCALE

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.

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Edward Nahm	CHECKED Tony Brake	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	RTE 5, 8, 67, 94, 163 BRIDGES GENERAL PLAN NO. 2	
	DETAILS	BY Tom Dang	CHECKED Tony Brake	LAYOUT	BY Tom Dang		CHECKED Tony Brake		POST MILE
	QUANTITIES	BY Edward Nahm	CHECKED Tony Brake	SPECIFICATIONS	BY Steve Seifert		CHECKED Steve Seifert		Varies

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS
 UNIT: 3489 PROJECT NUMBER & PHASE: 1112000123 CONTRACT NO.: 11-2M1501
 DISREGARD PRINTS BEARING EARLIER REVISION DATES

USERNAME => s129239 DATE PLOTTED => 17-JAN-2013 TIME PLOTTED => 2:17

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,67,94,163	Var	32	47
 REGISTERED CIVIL ENGINEER			DATE	01/18/13	
PLANS APPROVAL DATE			02-25-13		
No. C66900 Exp. 09/30/14 CIVIL			REGISTERED PROFESSIONAL ENGINEER EDWARD J. NAHM STATE OF CALIFORNIA		
<small>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.</small>					

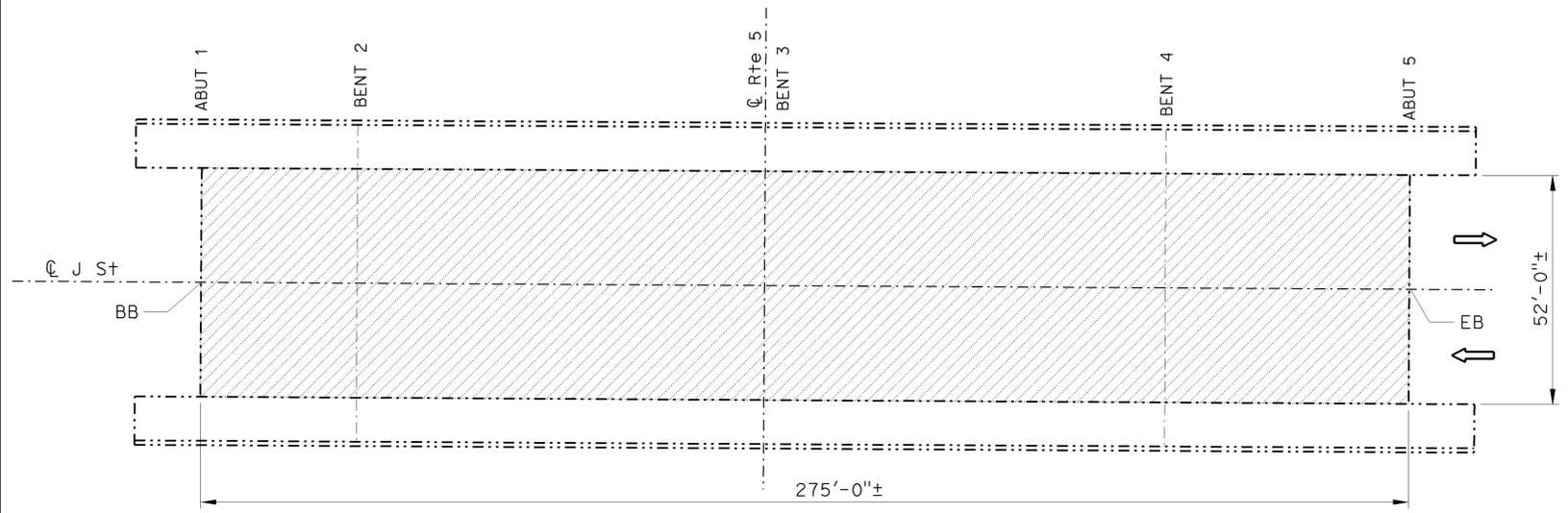
J STREET OC BRIDGE NO 57-0451

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM	
PREPARE CONCRETE BRIDGE DECK SURFACE	14,300	SQFT
TREAT BRIDGE DECK	14,300	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	180	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.



J STREET OC

Br No. 57-0451, Rte 5, PM R14.74
1" = 20'

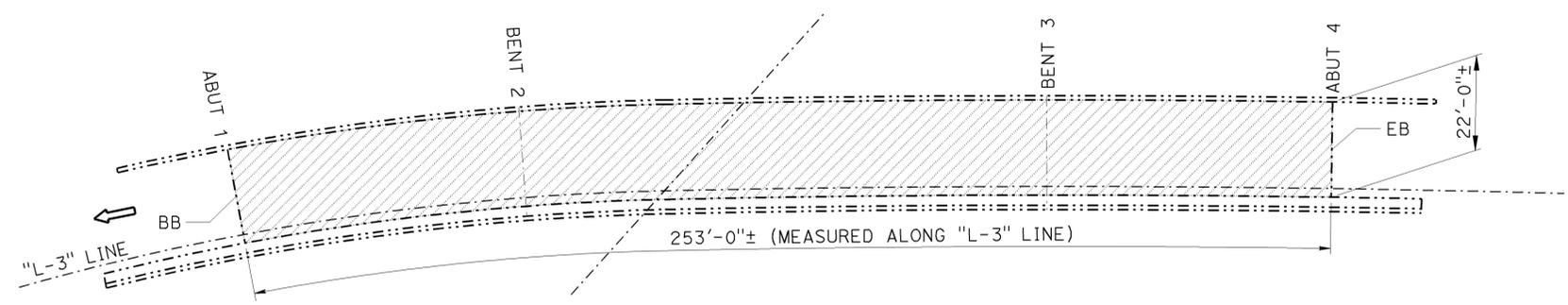


S5-G ST/ 19TH-E 94 OC

BRIDGE NO 57-0418S

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM	
PREPARE CONCRETE BRIDGE DECK SURFACE	5,570	SQFT
TREAT BRIDGE DECK	5,570	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	70	GAL



S5-G STREET/ 19TH-E 94 OC

Br No. 57-0418S, Rte 5 PM R15.00
1" = 20'



NOTE:
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DESIGN	BY Edward Nahm	CHECKED Tony Brake	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Tom Dang	CHECKED Tony Brake	LAYOUT	BY Tom Dang
QUANTITIES	BY Edward Nahm	CHECKED Tony Brake	SPECIFICATIONS	BY Steve Seifert

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

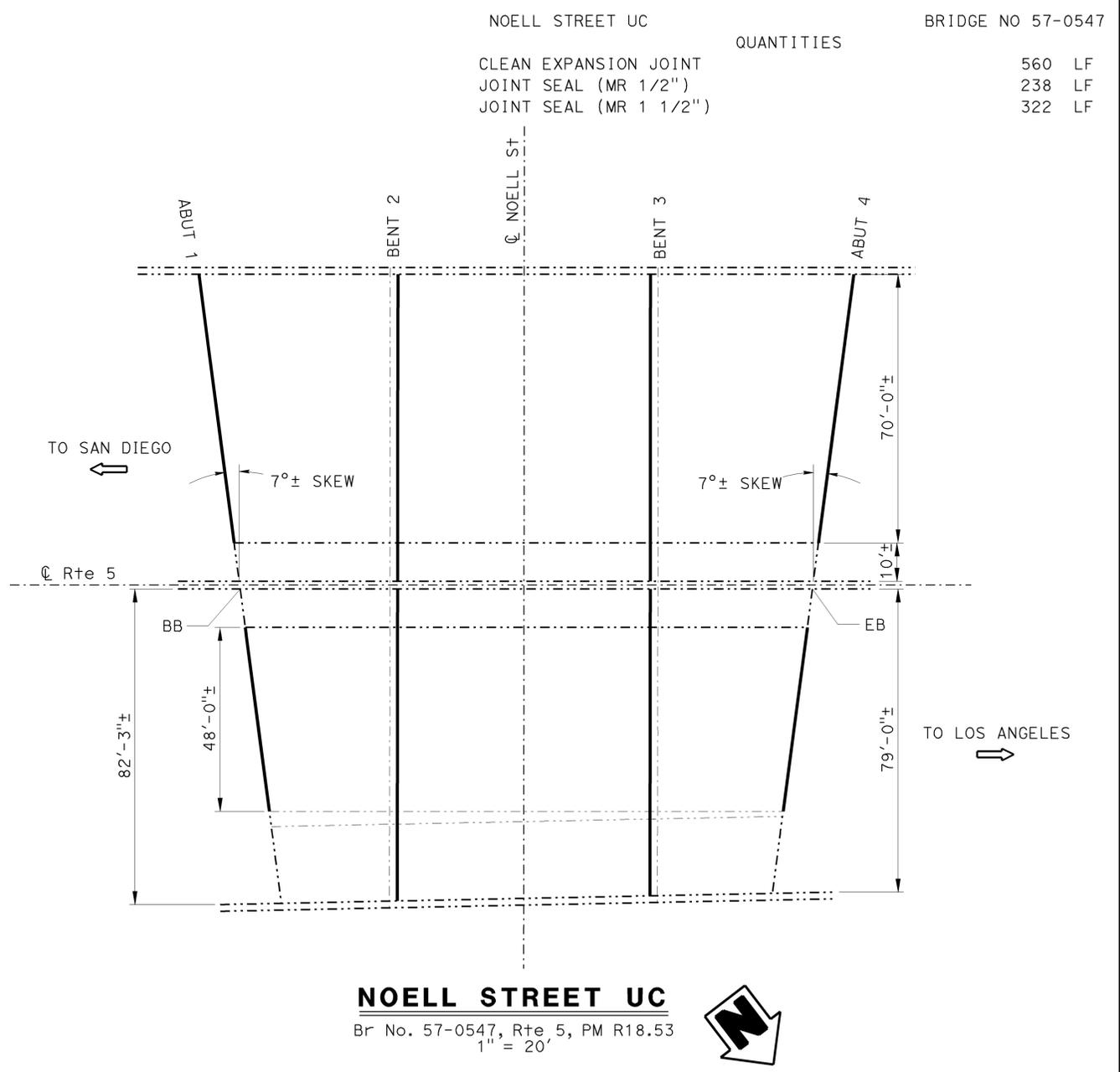
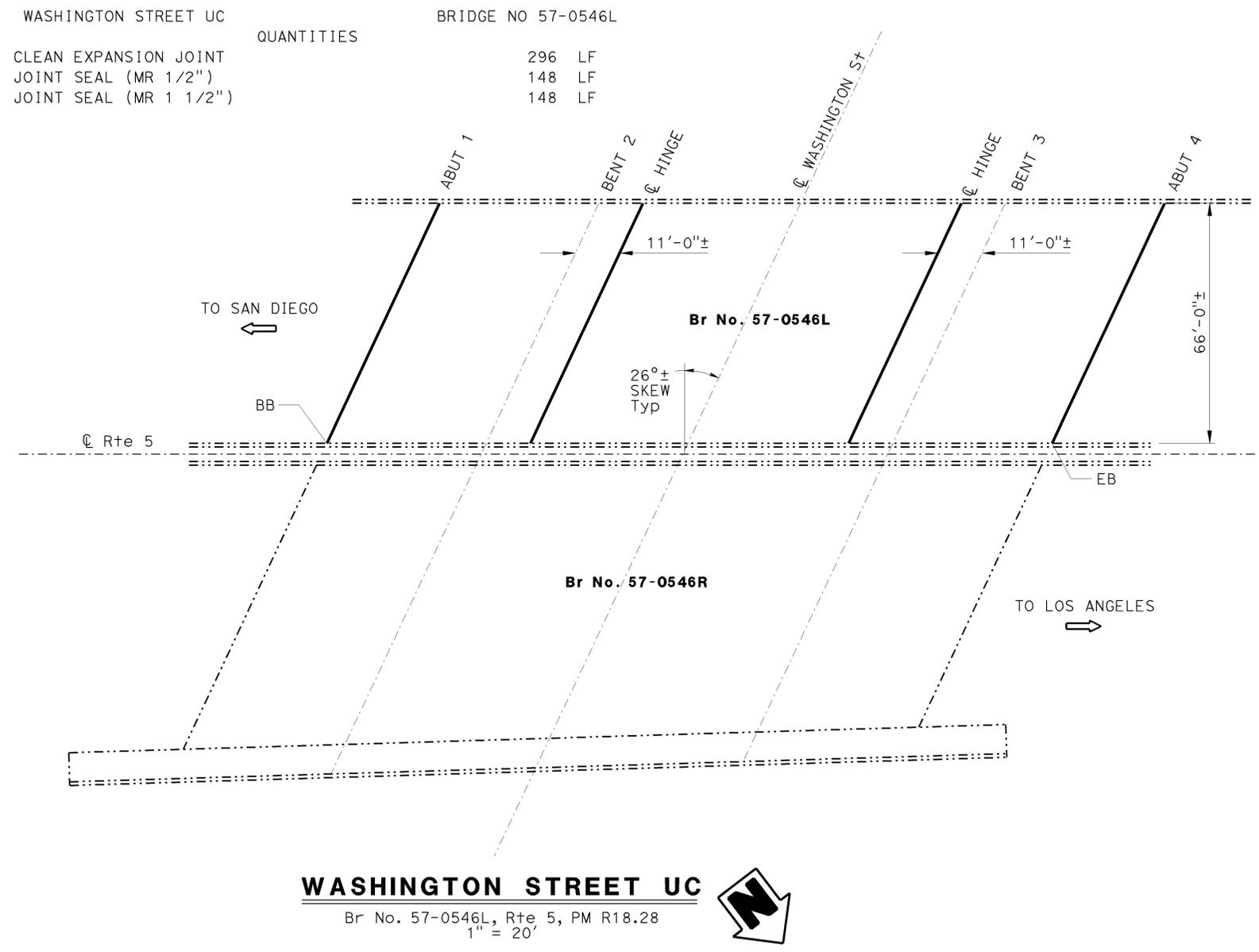
BRIDGE NO. Various
POST MILE Varies

RTE 5,8,67,94,163 BRIDGES
GENERAL PLAN NO. 3

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5, 8, 67, 94, 163	Var	34	47
			01/18/13		
			REGISTERED CIVIL ENGINEER	DATE	
			02-25-13	PLANS APPROVAL DATE	
			REGISTERED PROFESSIONAL ENGINEER No. C66900 Exp. 09/30/14 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 location of clean expansion joint and placement of new joint seal.



NOTE:
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DESIGN	BY Edward Nahm	CHECKED Tony Brake	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Tom Dang	CHECKED Tony Brake	LAYOUT	BY Tom Dang
QUANTITIES	BY Edward Nahm	CHECKED Tony Brake	SPECIFICATIONS	BY Steve Seifert

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
 POST MILE Varies

RTE 5, 8, 67, 94, 163 BRIDGES
 GENERAL PLAN NO. 5

UNIT: 3489
 PROJECT NUMBER & PHASE: 1112000123
 CONTRACT NO.: 11-2M1501

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
1-25-12	06	19

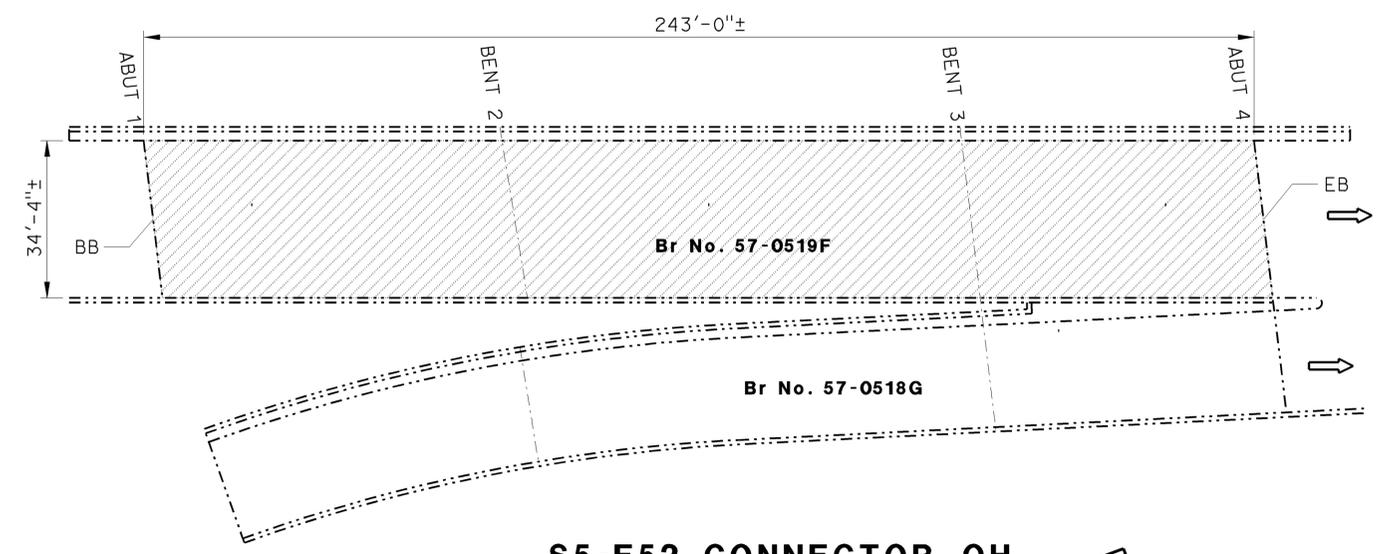
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5, 8, 67, 94, 163	Var	35	47
			01/18/13		
			REGISTERED CIVIL ENGINEER		
			DATE		
			02-25-13		
			PLANS APPROVAL DATE		
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					

S5-E52 CONNECTOR OH BRIDGE NO 57-0519F

QUANTITIES	LUMP SUM
PUBLIC SAFETY PLAN	8,350 SQFT
PREPARE CONCRETE BRIDGE DECK SURFACE	8,350 SQFT
TREAT BRIDGE DECK	105 GAL
FURNISH BRIDGE DECK TREATMENT MATERIAL	

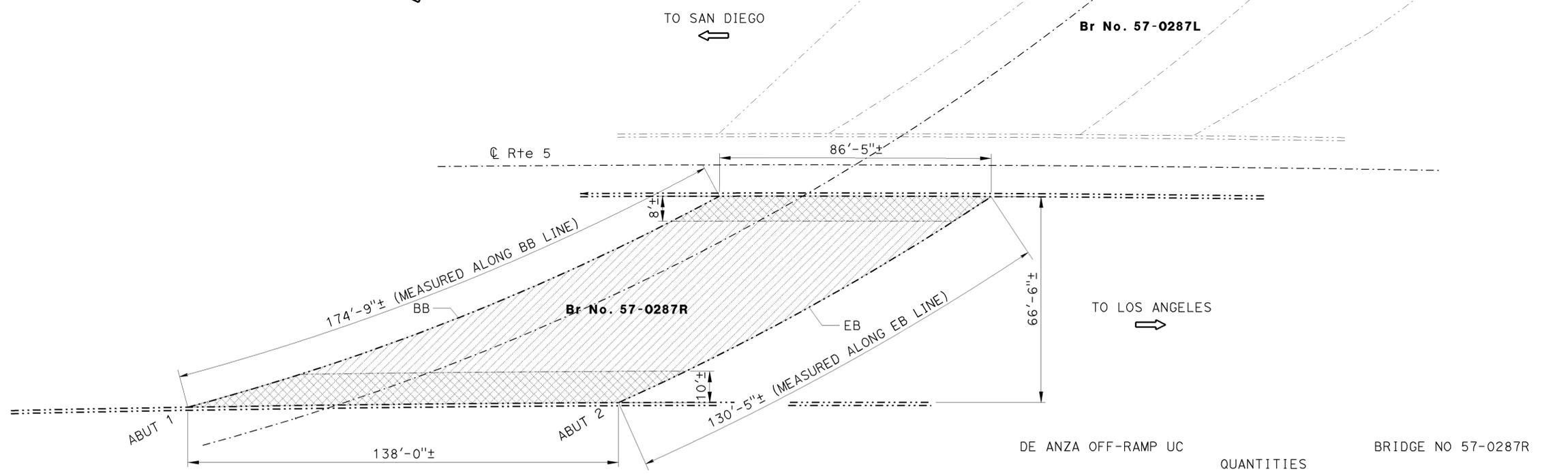
LEGEND:

- Indicates existing.
- ⇒ Indicates direction of traffic.
- ▨ Indicates limits of prepare concrete bridge deck surface and treat existing bridge deck with high molecular weight methacrylate.
- ▩ Indicates limits of remove existing contrast treatment.



S5-E52 CONNECTOR OH

Br No. 57-0519F, Rte 5, PM R25.93
1" = 20'



DE ANZA OFF-RAMP UC

Br No. 57-0287R, Rte 5, PM R22.87
1" = 20'



DE ANZA OFF-RAMP UC BRIDGE NO 57-0287R

QUANTITIES	LUMP SUM
PUBLIC SAFETY PLAN	2,070 SQFT
REMOVE CONTRAST TREATMENT	17,120 SQFT
PREPARE CONCRETE BRIDGE DECK SURFACE	17,120 SQFT
TREAT BRIDGE DECK	215 GAL
FURNISH BRIDGE DECK TREATMENT MATERIAL	

NOTE:
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DESIGN	BY Edward Nahm	CHECKED Tony Brake	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Tom Dang	CHECKED Tony Brake	LAYOUT	BY Tom Dang
QUANTITIES	BY Edward Nahm	CHECKED Tony Brake	SPECIFICATIONS	BY Steve Seifert

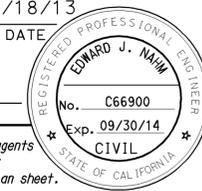
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

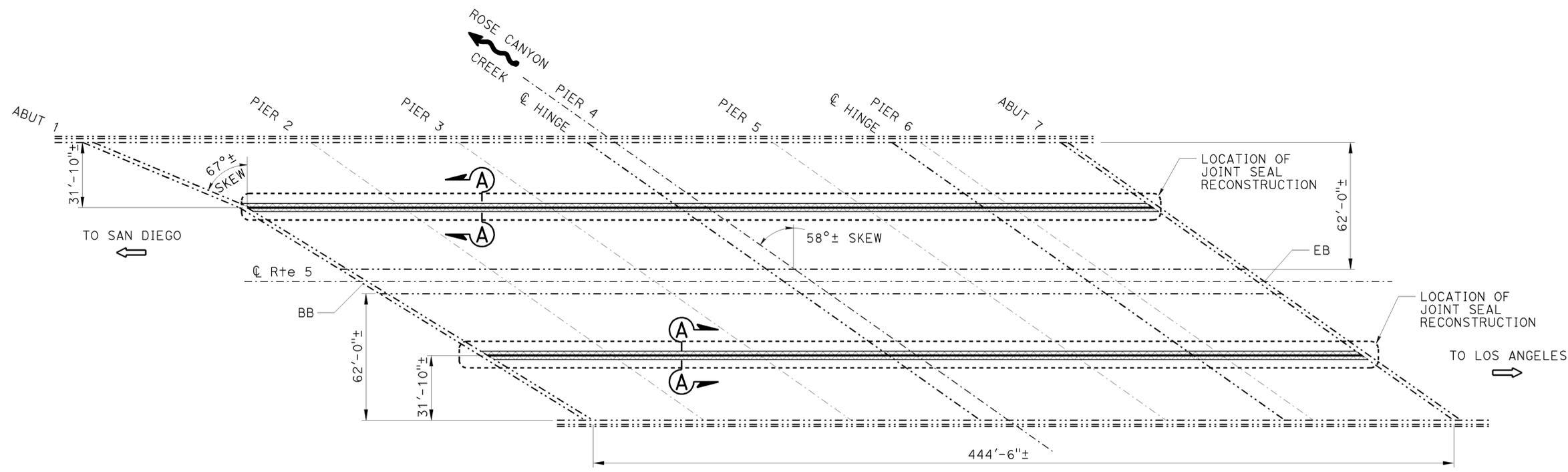
DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

RTE 5, 8, 67, 94, 163 BRIDGES
GENERAL PLAN NO. 6

USERNAME => s129239 DATE PLOTTED => 17-JAN-2013 TIME PLOTTED => 21:09

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5, 8, 67, 94, 163	Var	36	47
 REGISTERED CIVIL ENGINEER			DATE	01/18/13	
PLANS APPROVAL DATE			02-25-13		
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.					

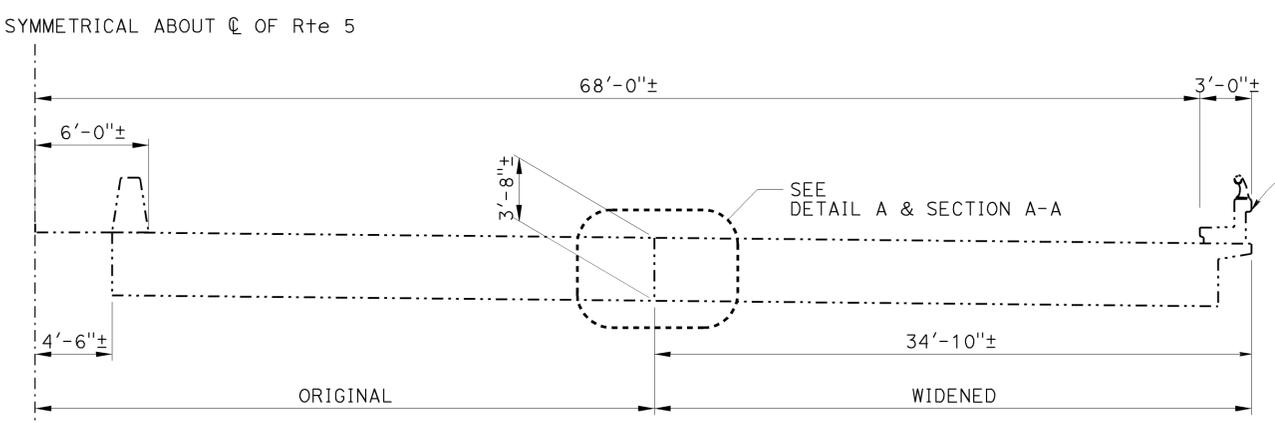


ROSE CANYON CREEK

Br No. 57-0289, Rte 5, PM R23.82
1" = 30'



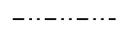
ROSE CANYON CREEK BRIDGE NO 57-0289



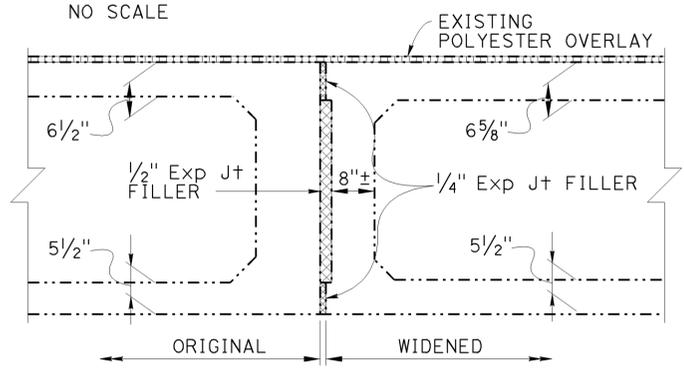
TYPICAL SECTION

NO SCALE

LEGEND:

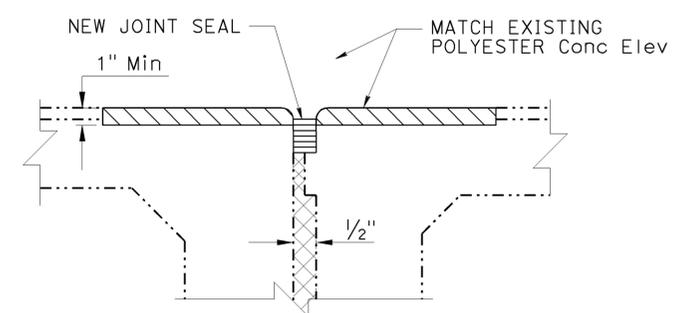
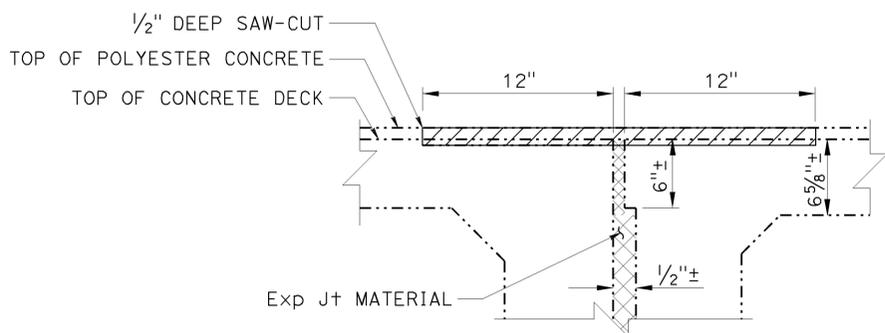
-  Indicates existing.
-  Indicates direction of traffic.
-  Indicates limits of Polyester concrete removal.
-  Indicates limits of new 1" thick minimum Polyester concrete overlay.
-  or  Indicates new joint seal Type AL.

QUANTITIES		LUMP SUM
PUBLIC SAFETY PLAN		
REMOVE POLYESTER CONCRETE DECK SURFACE	1,780	SQFT
PREPARE CONCRETE BRIDGE DECK SURFACE	1,780	SQFT
FURNISH POLYESTER CONCRETE OVERLAY	148	CF
PLACE POLYESTER CONCRETE OVERLAY	1,780	SQFT
CLEAN EXPANSION JOINT	890	LF
JOINT SEAL (TYPE AL)	890	LF



DETAIL A - JOINT SEAL RECONSTRUCTION

NO SCALE (SEE SECTION A-A)



SECTION A-A

NO SCALE

NOTE:
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DESIGN	BY Edward Nahm	CHECKED Tony Brake	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Tom Dang	CHECKED Tony Brake	LAYOUT	BY Tom Dang
QUANTITIES	BY Edward Nahm	CHECKED Tony Brake	SPECIFICATIONS	BY Steve Seifert

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO. Various	RTE 5, 8, 67, 94, 163 BRIDGES GENERAL PLAN NO. 7
		POST MILE Varies	

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5, 8, 67, 94, 163	Var	37	47

01/18/13
 REGISTERED CIVIL ENGINEER DATE
 02-25-13
 PLANS APPROVAL DATE

No. C66900
 Exp. 09/30/14
 CIVIL

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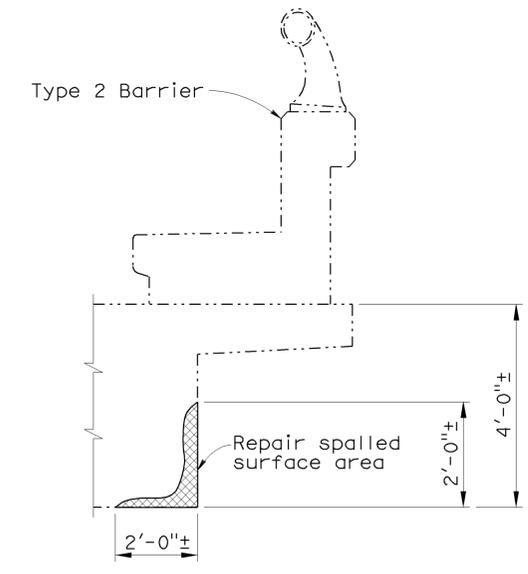
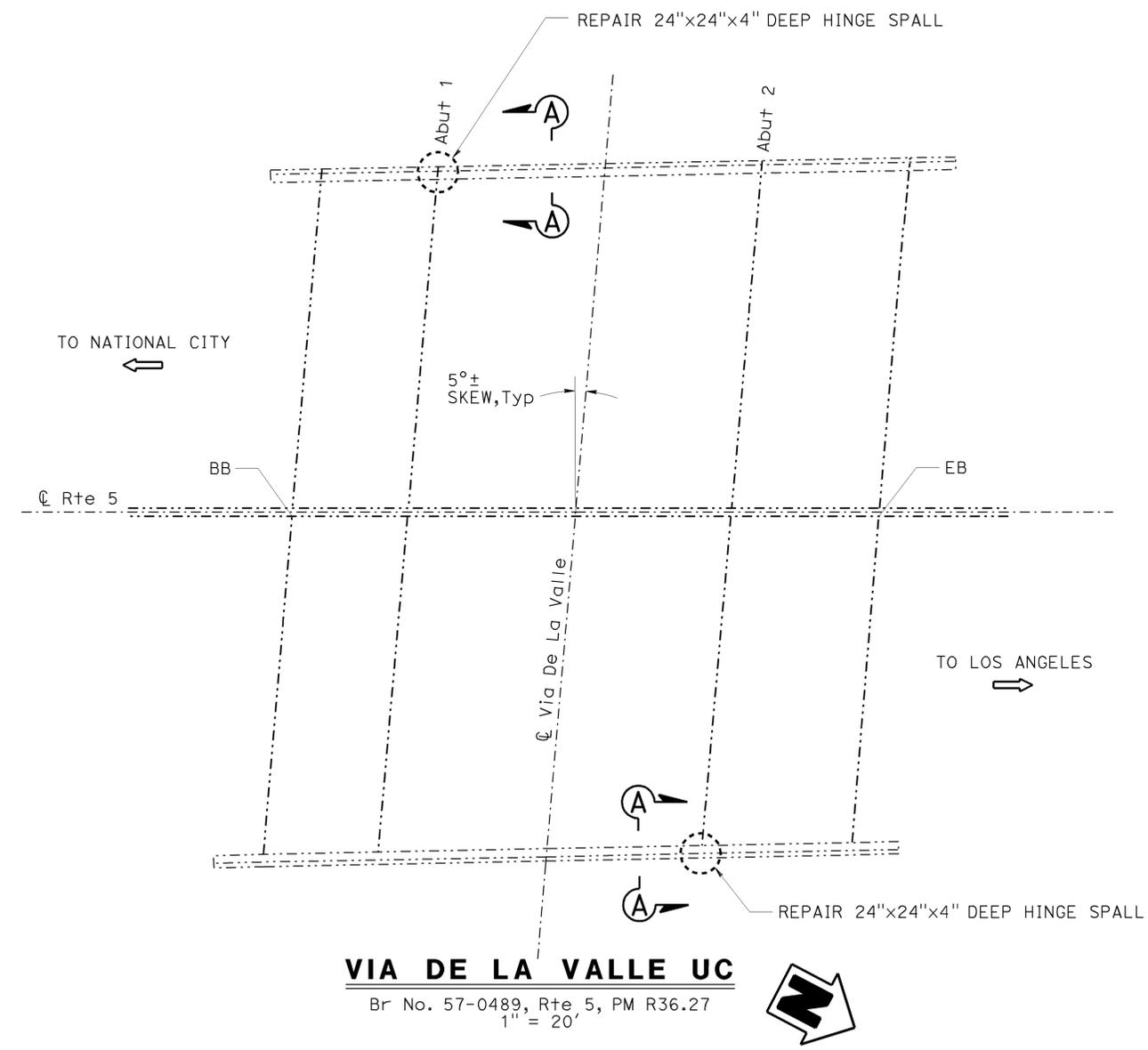
LEGEND:

- Indicates existing.
- ⇒ Indicates direction of traffic.
- ▨ Indicates repair spalled surface area.

NOTES:

1. For spalled surface repair details, see "MISCELLANEOUS DETAILS NO. 2" sheet.

VIA DE LA VALLE UC
 REPAIR SPALLED SURFACE AREA
 QUANTITIES
 8 SQFT



SECTION A-A
HINGE SPALL REPAIR
 NO SCALE

NOTE:
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TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Edward Nahm	CHECKED Tony Brake	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.	RTE 5, 8, 67, 94, 163 BRIDGES GENERAL PLAN NO. 8
	DETAILS	BY Tom Dang	CHECKED Tony Brake	LAYOUT	BY Tom Dang			CHECKED Tony Brake	
	QUANTITIES	BY Edward Nahm	CHECKED Tony Brake	SPECIFICATIONS	BY Steve Seifert	CHECKED Steve Seifert	PLANS AND SPECS COMPARED	Varies	

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS
 UNIT: 3489 PROJECT NUMBER & PHASE: 1112000123 CONTRACT NO.: 11-2M1501
 DISREGARD PRINTS BEARING EARLIER REVISION DATES
 REVISION DATES SHEET OF
 09 19

USERNAME => s129239 DATE PLOTTED => 17-JAN-2013 TIME PLOTTED => 20:54

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5, 8, 67, 94, 163	Var	38	47

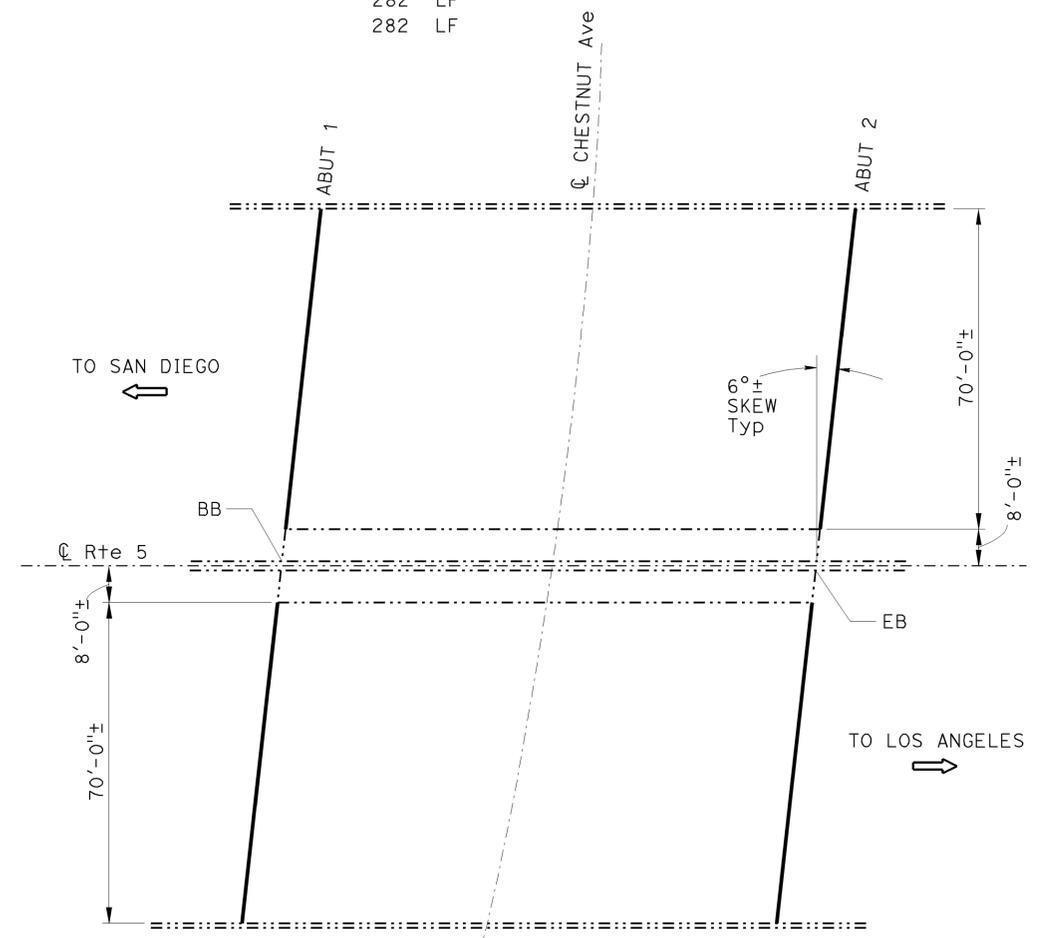
01/18/13
 REGISTERED CIVIL ENGINEER DATE
 02-25-13
 PLANS APPROVAL DATE
 No. C66900
 Exp. 09/30/14
 CIVIL
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

LEGEND:

- Indicates existing.
- ⇒ Indicates direction of traffic.
- /— Indicates location of clean expansion joint and placement of new joint seal.

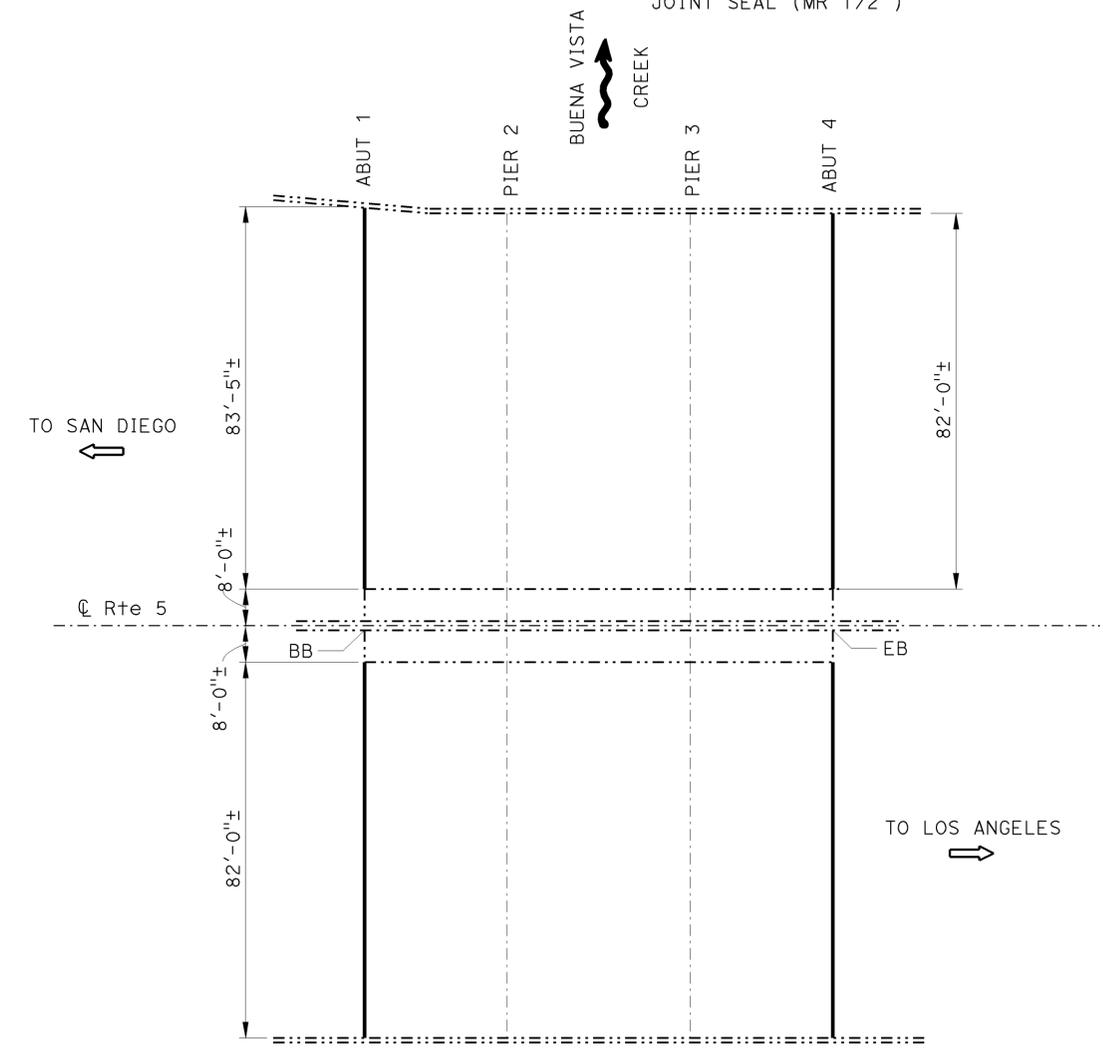
CHESTNUT AVE UC
 CLEAN EXPANSION JOINT
 JOINT SEAL (MR 1/2")

QUANTITIES
 BRIDGE NO 57-0275
 282 LF
 282 LF



CHESTNUT AVENUE UC
 Br No. 57-0275, Rte 5, PM R49.73
 1" = 20'

QUANTITIES
 BRIDGE NO 57-0277
 330 LF
 330 LF



BUENA VISTA LAGOON
 Br No. 57-0277, Rte 5, PM R50.94
 1" = 20'

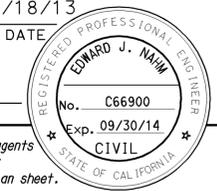
NOTE:
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

DESIGN	BY Edward Nahm	CHECKED Tony Brake	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Tom Dang	CHECKED Tony Brake	LAYOUT	BY Tom Dang
QUANTITIES	BY Edward Nahm	CHECKED Tony Brake	SPECIFICATIONS	BY Steve Seifert

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

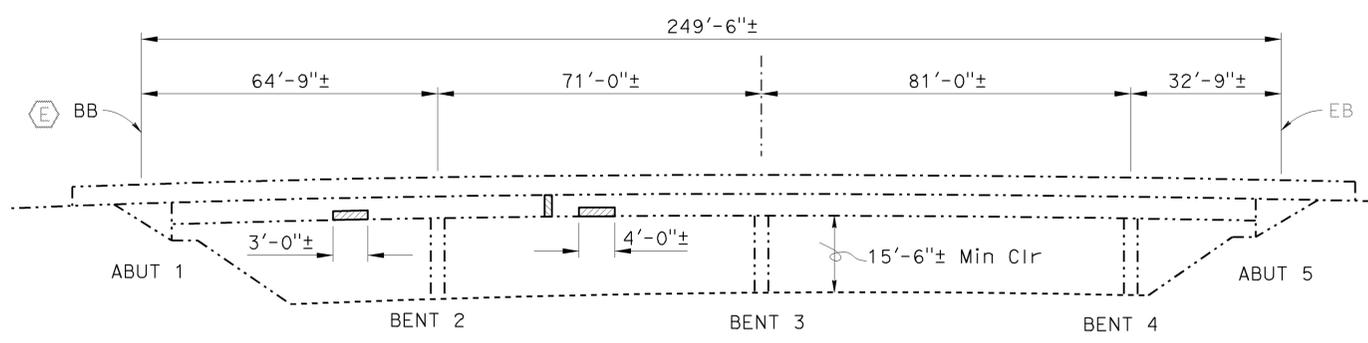
BRIDGE NO. Various
 POST MILE Varies
RTE 5, 8, 67, 94, 163 BRIDGES
GENERAL PLAN NO. 9

USERNAME => s129239 DATE PLOTTED => 17-JAN-2013 TIME PLOTTED => 2:05:55

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5, 8, 67, 94, 163	Var	39	47
 REGISTERED CIVIL ENGINEER			DATE	01/18/13	
PLANS APPROVAL DATE			02-25-13		
No. C66900 Exp. 09/30/14 CIVIL					
<small>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.</small>					

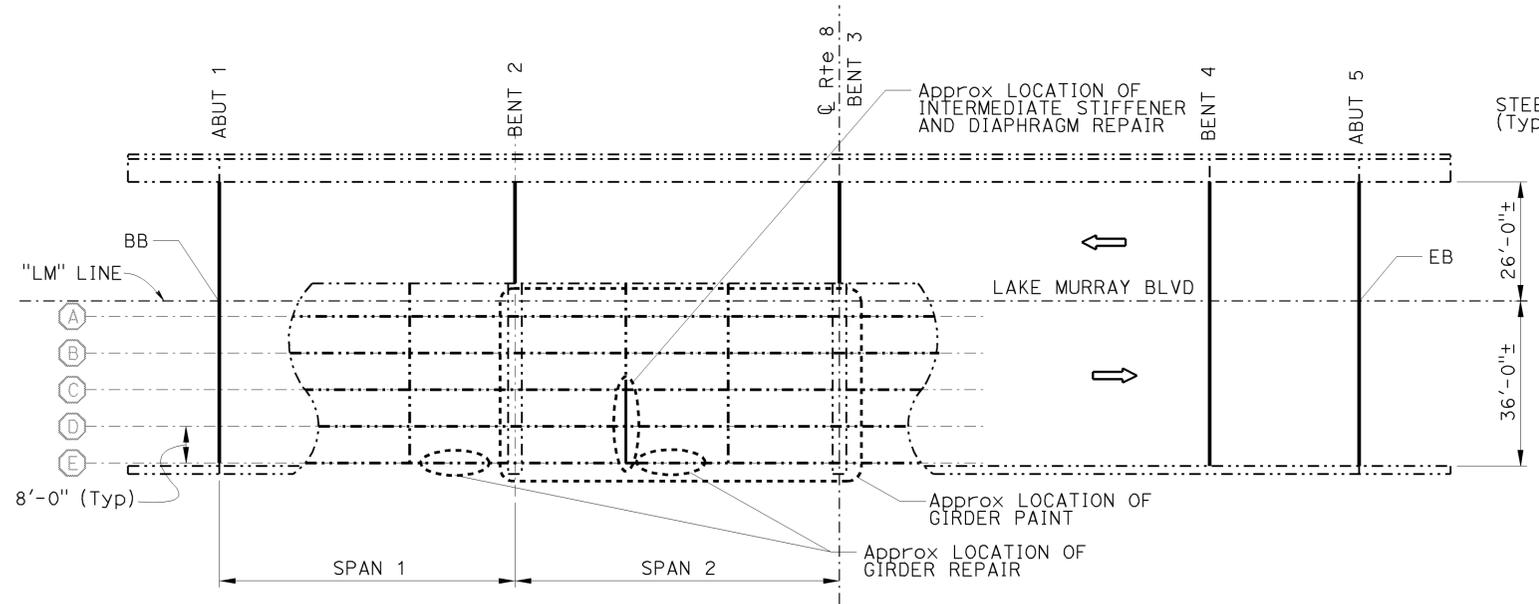
LEGEND:

- Indicates existing.
- Indicates direction of traffic.
- /--- Indicates location of clean expansion joint and placement of new joint seal.
- ⊗ Indicates girder line designation.
- ① or [Hatched Box] Indicates approximate limits of existing steel girder to be heat straightened and repaired, spot blast cleaned and painted, as approved by the Engineer. See "GIRDER REPAIR DETAILS NO. 1" & "GIRDER REPAIR DETAILS NO. 2" sheets.
- ② or [Hatched Box] Indicates approximate location of replace intermediate stiffeners and diaphragm. See "GIRDER REPAIR DETAILS NO. 1" & "GIRDER REPAIR DETAILS NO. 2" sheets.
- ③ Indicates limit of clean and paint bottom flange girder only. See "GIRDER REPAIR DETAILS NO. 1" & "GIRDER REPAIR DETAILS NO. 2" sheets.



LAKE MURRAY BLVD OC - ELEVATION

Br No. 57-0341, Rte 8, PM 9.59
 1" = 20'



LAKE MURRAY BLVD OC - PLAN

Br No. 57-0341, Rte 8, PM 9.59
 1" = 20'

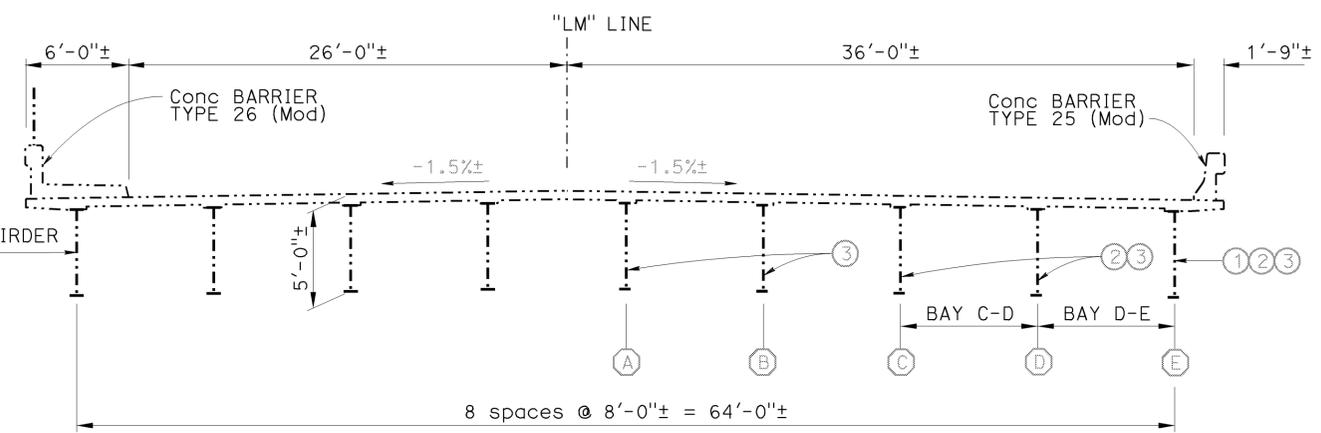


CONSTRUCTION NOTES:

- All welds shown to conform to AWS D1.5.
- All new structural steel to be ASTM Designation A709 Grade 36 (Fy=36 ksi).
- For heat straightening, existing girder web and flange are Type A7 (carbon, Fy=33 ksi).
- All new bolts to be high strength bolts (ASTM A325).
- Paint on existing steel contains lead-based primer.

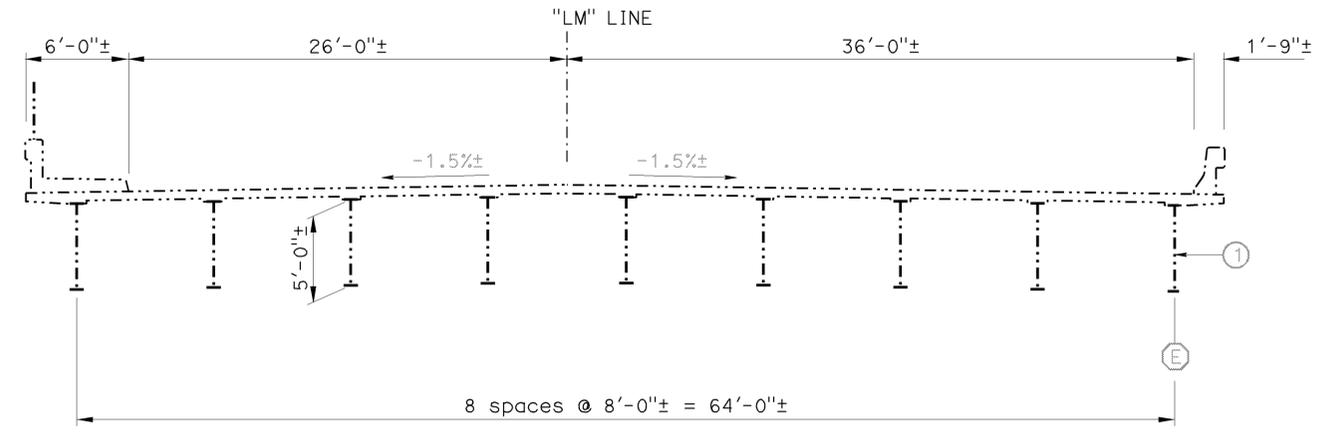
NOTE:
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

LAKE MURRAY BLVD OC		BRIDGE NO 57-0341	
QUANTITIES			
BRIDGE REMOVAL (PORTION)		LUMP SUM	
CLEAN EXPANSION JOINT		310 LF	
JOINT SEAL (MR 1/2")		310 LF	
STRUCTURAL STEEL (BRIDGE)		820 LB	
HEAT STRAIGHTEN STEEL GIRDER		LUMP SUM	
CLEAN AND PAINT STRUCTURAL STEEL		LUMP SUM	
SPOT BLAST CLEAN AND PAINT UNDERCOAT		20 SQFT	



TYPICAL SECTION - SPAN 2

3/16" = 1'-0"



TYPICAL SECTION - SPAN 1

3/16" = 1'-0"

TONY D. BRAKE
 DESIGN ENGINEER

DESIGN	BY Edward Nahn	CHECKED Tony Brake
DETAILS	BY Tom Dang	CHECKED Tony Brake
QUANTITIES	BY Edward Nahn	CHECKED Tony Brake

LOAD FACTOR DESIGN	BY Tom Dang	CHECKED Tony Brake
LAYOUT	BY Tom Dang	CHECKED Tony Brake
SPECIFICATIONS	BY Steve Seifert	PLANS AND SPECS COMPARED Steve Seifert

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	Various
POST MILE	Varies

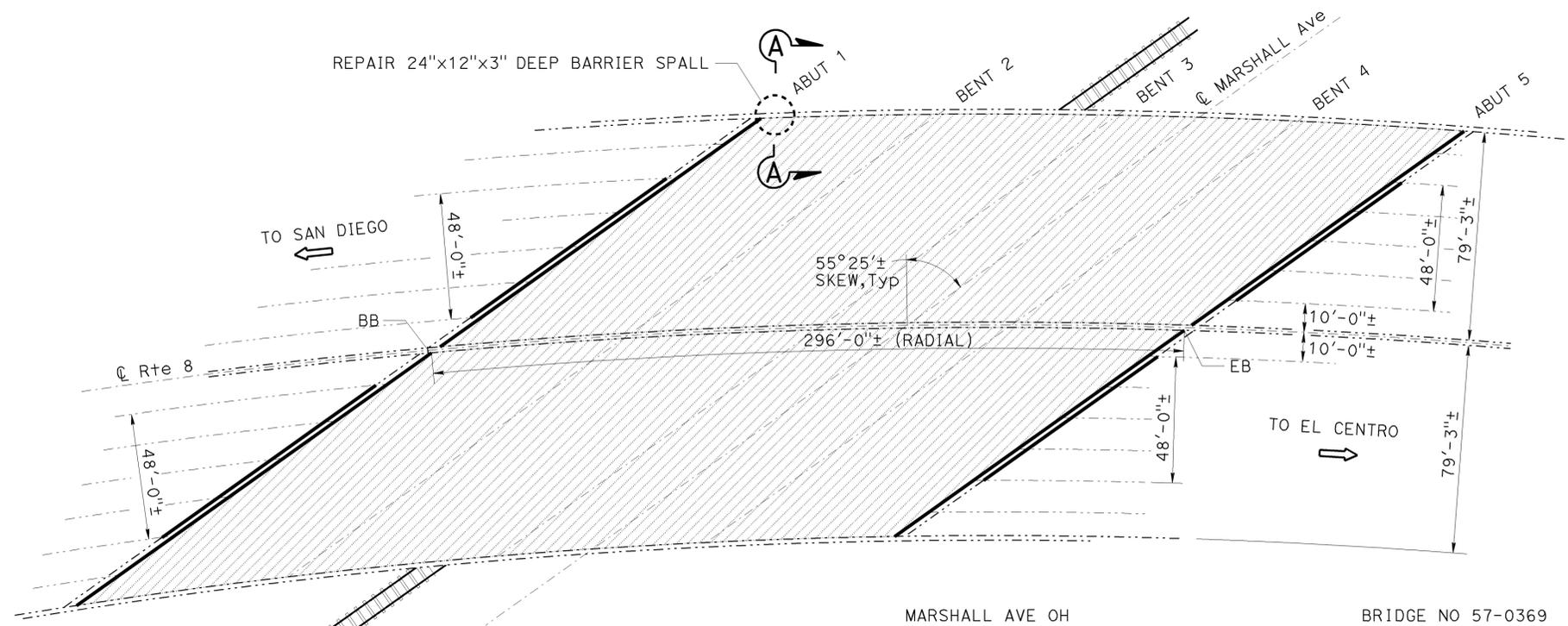
RTE 5, 8, 67, 94, 163 BRIDGES
 GENERAL PLAN NO. 10

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5, 8, 67, 94, 163	Var	40	47

01/18/13
 REGISTERED CIVIL ENGINEER DATE
 02-25-13
 PLANS APPROVAL DATE

EDWARD J. NAHM
 No. C66900
 Exp. 09/30/14
 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.



MARSHALL AVE OH
 Br No. 57-0369, Rte 8, PM 14.95
 1" = 30'

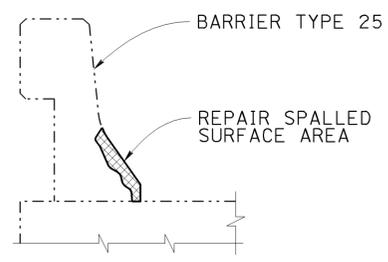
MARSHALL AVE OH	QUANTITIES	BRIDGE NO 57-0369
PUBLIC SAFETY PLAN		LUMP SUM
REPAIR SPALLED SURFACE AREA	2 SQFT	
PREPARE CONCRETE BRIDGE DECK SURFACE	46,920 SQFT	
TREAT BRIDGE DECK	46,920 SQFT	
FURNISH BRIDGE DECK TREATMENT MATERIAL	590 GAL	
CLEAN EXPANSION JOINT	898 LF	
JOINT SEAL (MR 1/2")	898 LF	

LEGEND:

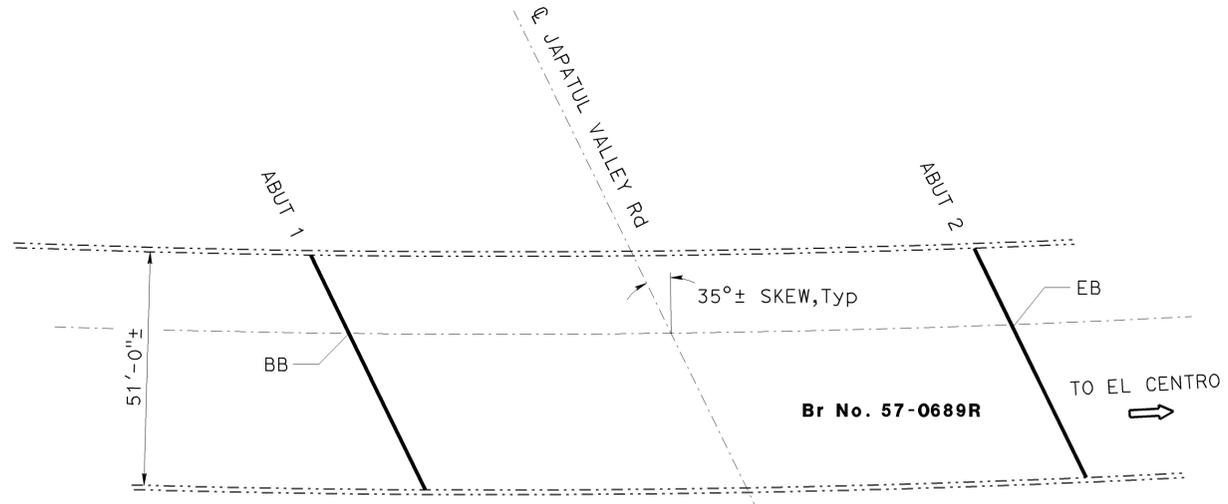
- - - - - Indicates existing.
- Indicates direction of traffic.
- /— Indicates location of clean expansion joint and placement of new joint seal.
- ▨ Indicates repair spalled surface area.
- ▩ Indicates limits of prepare concrete bridge deck surface and treat existing bridge deck with high molecular weight methacrylate.

NOTES:

- For spalled surface repair details, see "MISCELLANEOUS DETAILS NO. 2" sheet.



SECTION A-A
BARRIER RAIL REPAIR
 NO SCALE



ROUTE 8/79 SEPARATION
 Br No. 57-0689R, Rte 8, PM R37.83
 1" = 20'

ROUTE 8/79 SEPARATION	QUANTITIES	BRIDGE NO 57-0689R
CLEAN EXPANSION JOINT		124 LF
JOINT SEAL (MR 1/2")		124 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.

DESIGN	BY Edward Nahm	CHECKED Tony Brake	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Tom Dang	CHECKED Tony Brake	LAYOUT	BY Tom Dang
QUANTITIES	BY Edward Nahm	CHECKED Tony Brake	SPECIFICATIONS	BY Steve Seifert

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
 POST MILE Varies

RTE 5, 8, 67, 94, 163 BRIDGES
GENERAL PLAN NO. 11

UNIT: 3489
 PROJECT NUMBER & PHASE: 1112000123
 CONTRACT NO.: 11-2M1501

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET 12	OF 19
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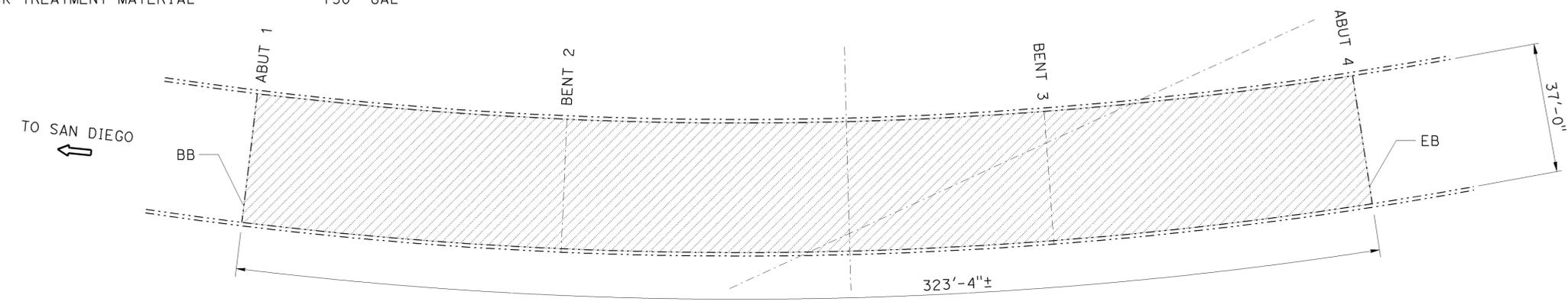
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,67,94,163	Var	41	47
			01/18/13		
REGISTERED CIVIL ENGINEER			DATE		
02-25-13			PLANS APPROVAL DATE		
			REGISTERED PROFESSIONAL ENGINEER No. C66900 Exp. 09/30/14 CIVIL STATE OF CALIFORNIA		
The State of California or its officers 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 of prepare concrete bridge deck surface and treat existing bridge deck with high molecular weight methacrylate.

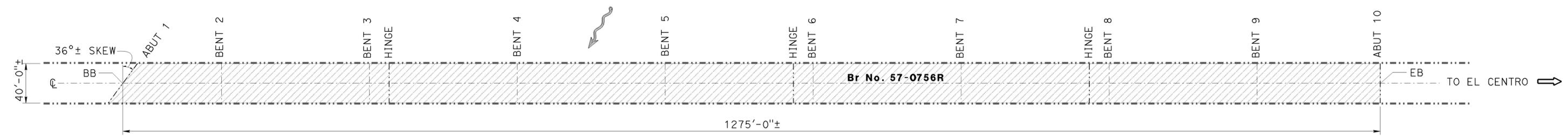
S67-W8 CONNECTOR OC BRIDGE NO 57-0557F

QUANTITIES	LUMP SUM
PUBLIC SAFETY PLAN	
PREPARE CONCRETE BRIDGE DECK SURFACE	11,960 SQFT
TREAT BRIDGE DECK	11,960 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	150 GAL



S67-W8 CONNECTOR OC

Br No. 57-0557F, Rte 67, PM R0.16
1" = 20'



LA POSTA CREEK

Br No. 57-0756R, Rte 8, PM R56.78
1" = 50'

LA POSTA CREEK BRIDGE NO 57-0756R

QUANTITIES	LUMP SUM
PUBLIC SAFETY PLAN	
PREPARE CONCRETE BRIDGE DECK SURFACE	51,000 SQFT
TREAT BRIDGE DECK	51,000 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	640 GAL

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.

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Edward Nahm	CHECKED Tony Brake	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	RTE 5,8,67,94,163 BRIDGES GENERAL PLAN NO. 12				
	DETAILS	BY Tom Dang	CHECKED Tony Brake	LAYOUT	BY Tom Dang		CHECKED Tony Brake		POST MILE			
	QUANTITIES	BY Edward Nahm	CHECKED Tony Brake	SPECIFICATIONS	BY Steve Seifert		CHECKED Steve Seifert		PLANS AND SPECS COMPARED	Varies		
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3489	PROJECT NUMBER & PHASE: 1112000123	CONTRACT NO.: 11-2M1501	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 13 OF 19

USERNAME => s129239 DATE PLOTTED => 25-JAN-2013 TIME PLOTTED => 12:35

CHANNEL ROAD UC

BRIDGE NO 57-0562L

QUANTITIES

	LUMP SUM
PUBLIC SAFETY PLAN	
PREPARE CONCRETE BRIDGE DECK SURFACE	5,390 SQFT
TREAT BRIDGE DECK	5,390 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	70 GAL

LEGEND:

- Indicates existing.
- Indicates direction of traffic.
- [Hatched Box] Indicates limits of 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.
- [Cross-hatched Box] Indicates repair spalled surface area.

NOTES:

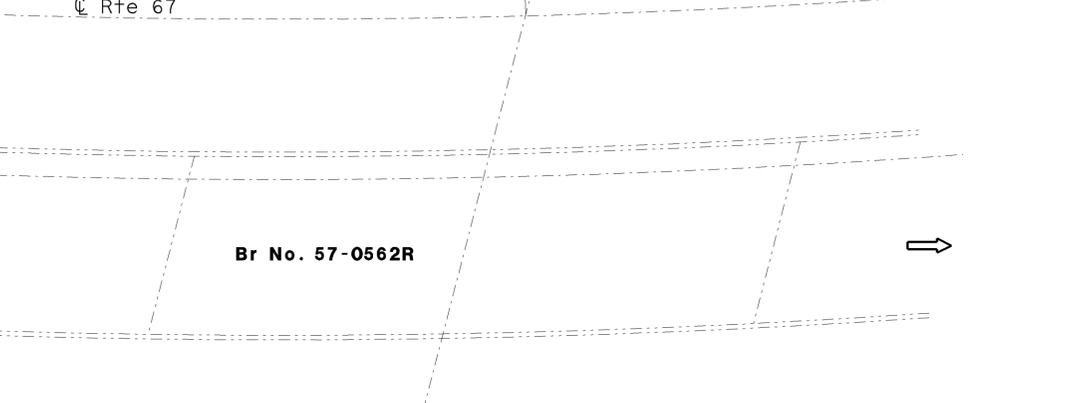
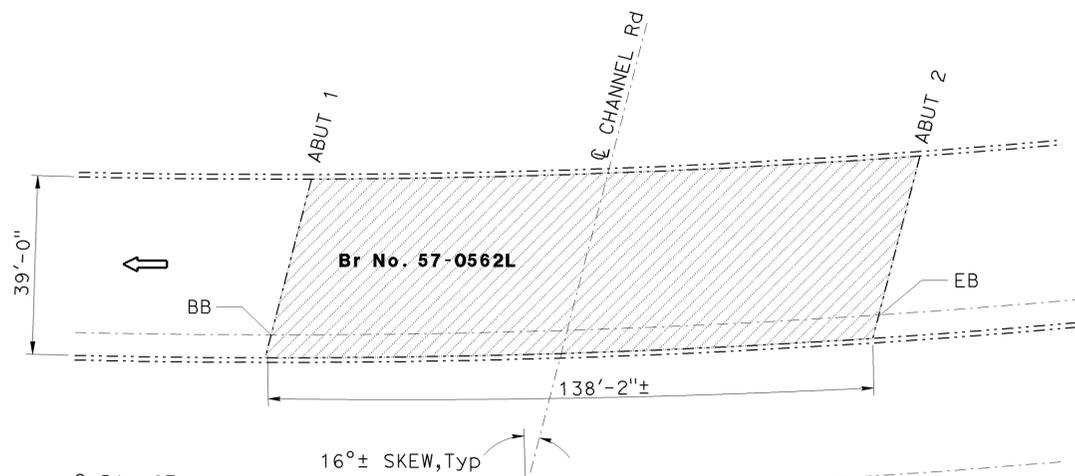
- For spalled surface repair details, see "MISCELLANEOUS DETAILS NO. 2" sheet.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5, 8, 67, 94, 163	Var	42	47

01/18/13
 REGISTERED CIVIL ENGINEER DATE
 02-25-13
 PLANS APPROVAL DATE

EDWARD J. NAHM
 No. C66900
 Exp. 09/30/14
 CIVIL
 STATE OF CALIFORNIA

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CHANNEL ROAD UC

Br No. 57-0562L, Rte 67, PM R5.19
1" = 20'



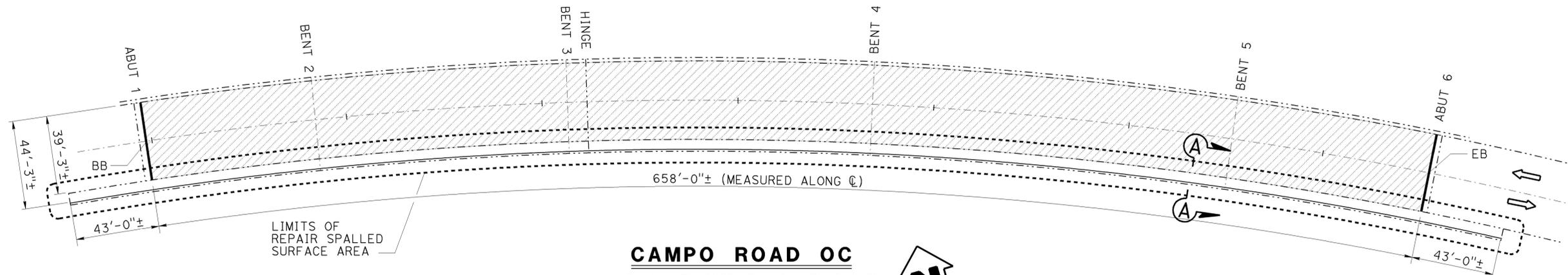
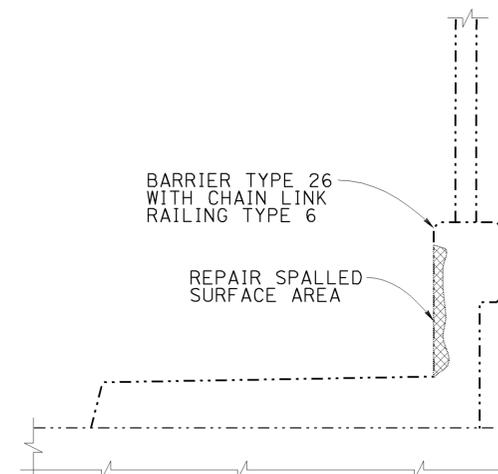
BARRIER RAIL REPAIR				
BRIDGE NAME	BRIDGE NUMBER	BARRIER AREA (SQFT)	APPROX AREA DAMAGED	REPAIR SPALLED SURFACE AREA (SQFT)
CAMPO ROAD UC	57-0803	1674	1%	17

CAMPO ROAD OC

BRIDGE NO 57-0803

QUANTITIES

	LUMP SUM
PUBLIC SAFETY PLAN	
REPAIR SPALLED SURFACE AREA	17 SQFT
PREPARE CONCRETE BRIDGE DECK SURFACE	25,830 SQFT
TREAT BRIDGE DECK	25,830 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	325 GAL
CLEAN EXPANSION JOINT	80 LF
JOINT SEAL (MR 1 1/2")	80 LF



CAMPO ROAD OC

Br No. 57-0803, Rte 94, PM R10.72
1" = 30'



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 Edward Nahm	CHECKED Tony Brake	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Tom Dang	CHECKED Tony Brake	LAYOUT	BY Tom Dang
QUANTITIES	BY Edward Nahm	CHECKED Tony Brake	SPECIFICATIONS	BY Steve Seifert

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies
RTE 5, 8, 67, 94, 163 BRIDGES
GENERAL PLAN NO. 13

USERNAME => s129239 DATE PLOTTED => 28-JAN-2013 TIME PLOTTED => 08:58

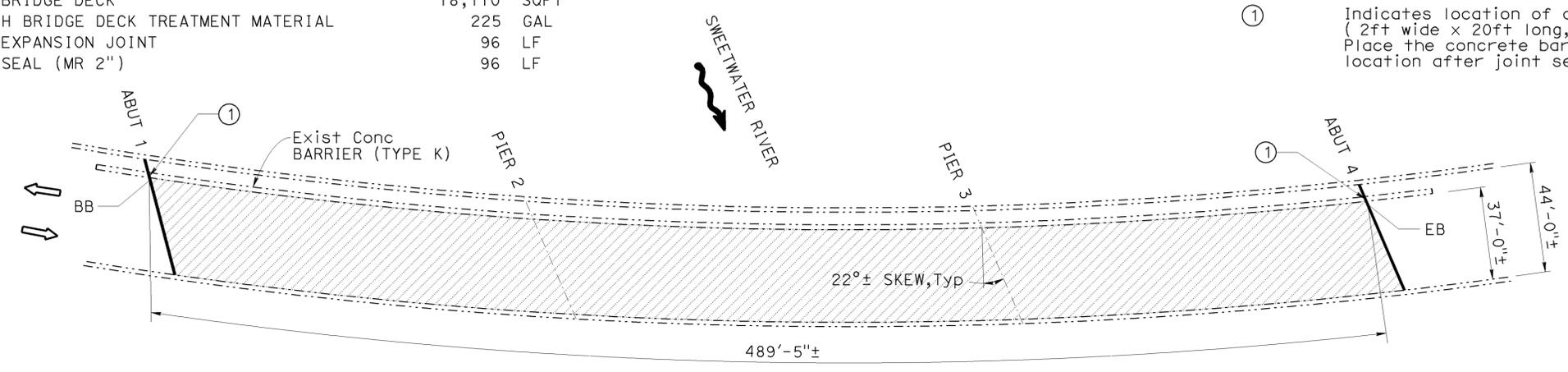
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5, 8, 67, 94, 163	Var	43	47
 REGISTERED CIVIL ENGINEER			DATE	01/18/13	
PLANS APPROVAL DATE			02-25-13		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					

LEGEND:

- Indicates existing.
- ➔ Indicates direction of traffic.
- ▨ Indicates limits of prepare concrete bridge deck surface and place high molecular weight methacrylate.
- /— Indicates location of clean expansion joint and placement of new joint seal.
- ① Indicates location of concrete barrier (Type K) removal (2ft wide x 20ft long, Tot 3) prior to joint seal installation. Place the concrete barrier (Type K) back to original location after joint seal replacement.

SWEETWATER RIVER BRIDGE NO 57-0962

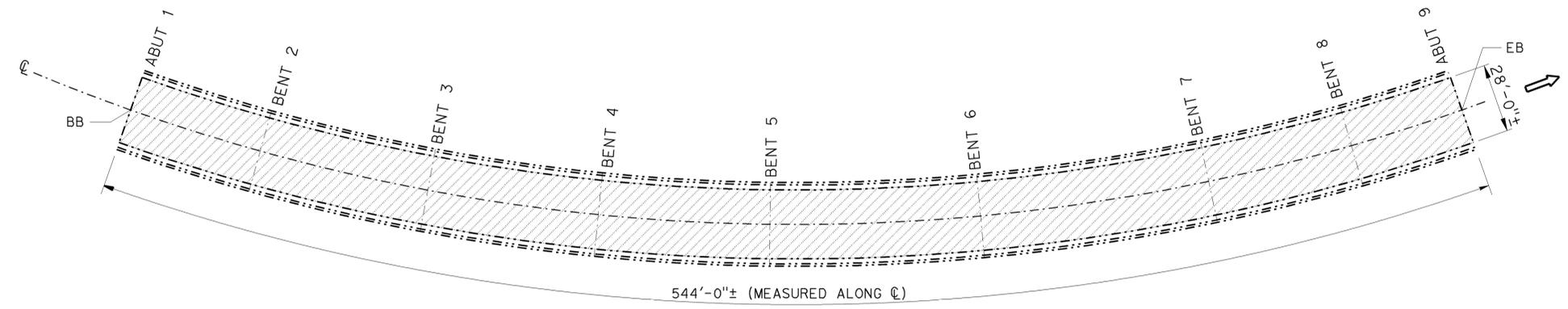
QUANTITIES	LUMP SUM
PUBLIC SAFETY PLAN	
PREPARE CONCRETE BRIDGE DECK SURFACE	18,110 SQFT
TREAT BRIDGE DECK	18,110 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	225 GAL
CLEAN EXPANSION JOINT	96 LF
JOINT SEAL (MR 2")	96 LF



SWEETWATER RIVER
 Br No. 57-0962, Rte 94, PM 15.27
 1" = 30'

N163-N5 CONNECTOR OC BRIDGE NO 57-0392G

QUANTITIES	LUMP SUM
PUBLIC SAFETY PLAN	
PREPARE CONCRETE BRIDGE DECK SURFACE	15,230 SQFT
TREAT BRIDGE DECK	15,230 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	190 GAL



N163-N5 CONNECTOR OC
 Br No. 57-0392G, Rte 163, PM 0.88
 1" = 30'

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 Edward Nahm	CHECKED Tony Brake	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Tom Dang	CHECKED Tony Brake	LAYOUT	BY Tom Dang
QUANTITIES	BY Edward Nahm	CHECKED Tony Brake	SPECIFICATIONS	BY Steve Seifert

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
 POST MILE Various

RTE 5,8,67,94,163 BRIDGES
GENERAL PLAN NO. 14

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,67,94,163	Var	44	47

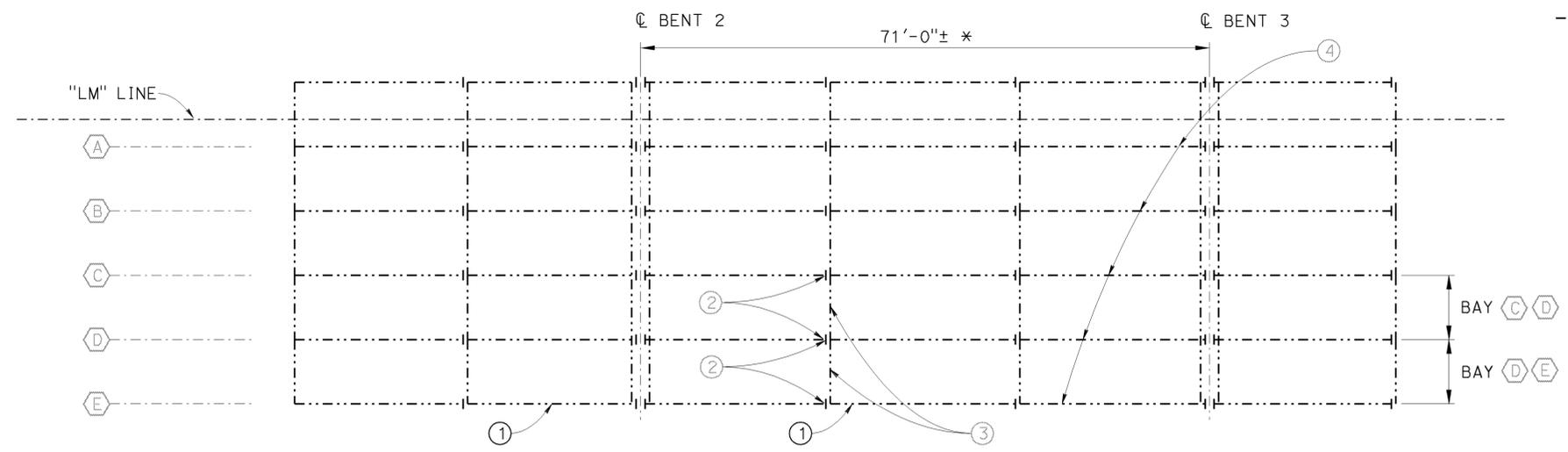
01/18/13
 REGISTERED CIVIL ENGINEER DATE
 02-25-13
 PLANS APPROVAL DATE
 No. C66900
 Exp. 09/30/14
 CIVIL
 STATE OF CALIFORNIA
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

LEGEND:

- Indicates existing.
- (X) Indicates girder line designation.
- *

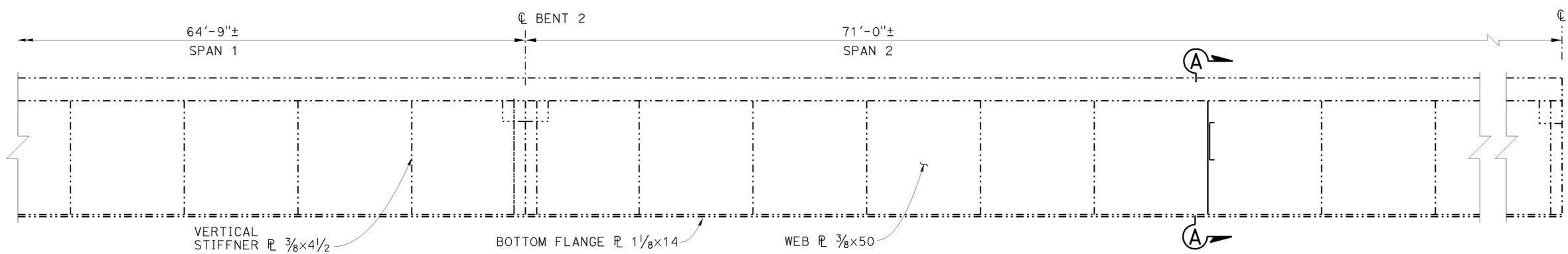
NOTES:

- ① Indicates location of heat and force straighten damaged girder (E) as approved by the Engineer. Remove existing paint prior to heat straightened operation. See SECTION B-B of "GIRDER REPAIR DETAILS NO. 2" sheet.
- ② Indicates location of replace damaged intermediate stiffeners $\text{PL } \frac{3}{8} \times 4\frac{1}{2}$ " at girder (C), (D), and (E). See SECTION A-A of "GIRDER REPAIR DETAILS NO. 2" sheet (Total 4).
- ③ Indicates location of replace damaged intermediate diaphragm MC 18x42.7 at bays C-D & D-E. See SECTION A-A of "GIRDER REPAIR DETAILS NO. 2" sheet (Total 2). Attach to replaced stiffeners with $\frac{7}{8}$ " diameter HS bolts.
- ④ Indicates location of clean and paint bottom flange $\text{PL } 1\frac{1}{8} \times 14$ of the girders (A), (B), (C), (D) and (E) at Span 2 (71' per each girder). See TYPICAL PAINT LIMIT DETAIL on "GIRDER REPAIR DETAILS NO. 2" sheet.
- ⑤ For SECTION A-A and SECTION B-B, see "GIRDER REPAIR DETAILS NO. 2" sheet.



PARTIAL GIRDER LAYOUT

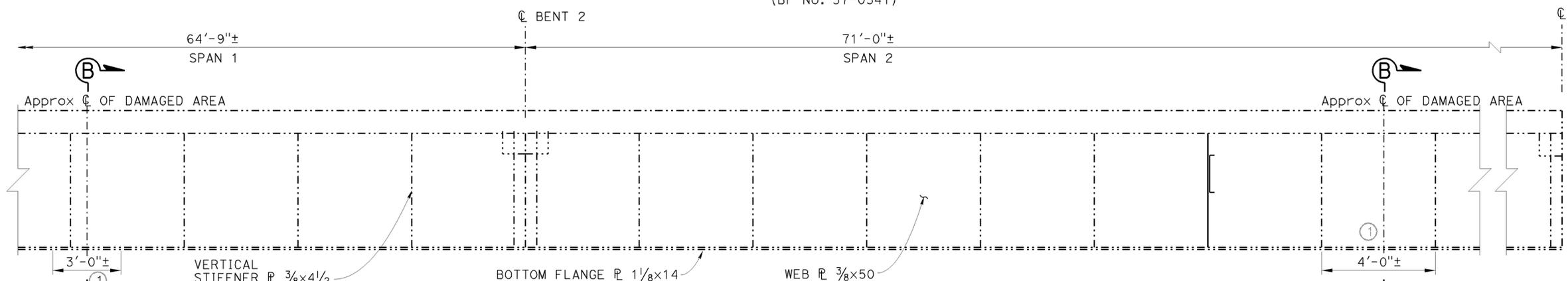
NO SCALE
 (Br No. 57-0341)



GIRDER CDE PART ELEVATION

1" = 20'
 (Br No. 57-0341)

1. All details not shown for clarity.
2. For Section A-A, see "GIRDER REPAIR DETAILS NO. 2" sheet.
3. Replace damaged intermediate stiffeners and diaphragms.
4. Spot blast, clean and paint steel on all repaired locations as approved by Engineer.



GIRDER E PART ELEVATION

1" = 20'
 (Br No. 57-0341)

1. All details not shown for clarity.
2. For Section B-B, see "GIRDER REPAIR DETAILS NO. 2" sheet.
3. Heat and force straighten damaged girder.
4. Spot blast, clean and paint steel on all repaired locations as approved by Engineer.

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 Edward Nahm	CHECKED Tony Brake
DETAILS	BY Tom Dang	CHECKED Tony Brake
QUANTITIES	BY Edward Nahm	CHECKED Tony Brake

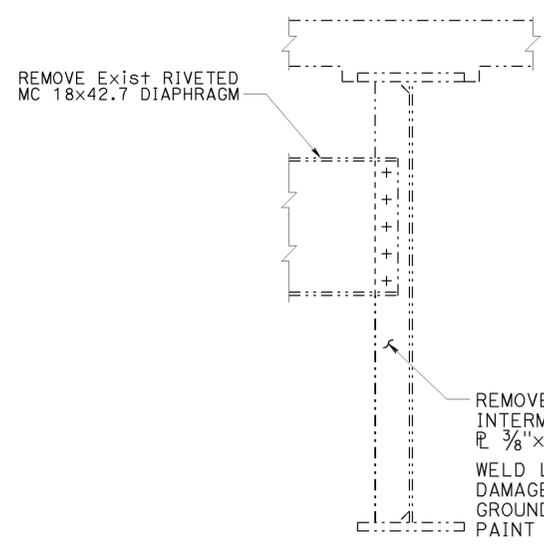
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	Various
POST MILE	Varies

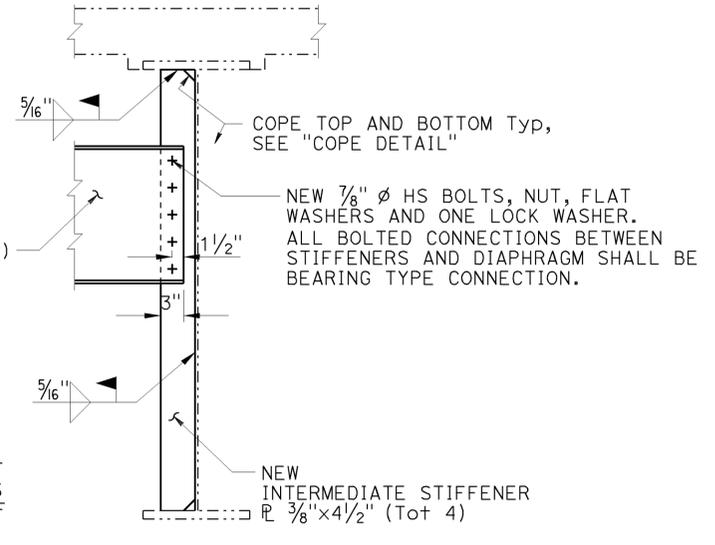
RTE 5,8,67,94,163 BRIDGES
GIRDER REPAIR DETAILS NO. 1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,67,94,163	Var	45	47
			01/18/13		
REGISTERED CIVIL ENGINEER			DATE		
02-25-13			PLANS APPROVAL DATE		
					
<small>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.</small>					

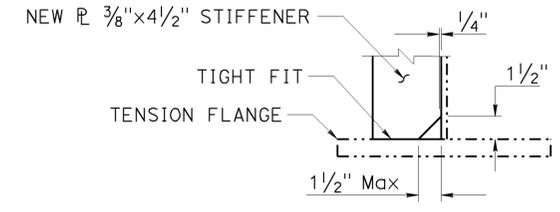


EXISTING

SECTION A-A



RECONSTRUCTION



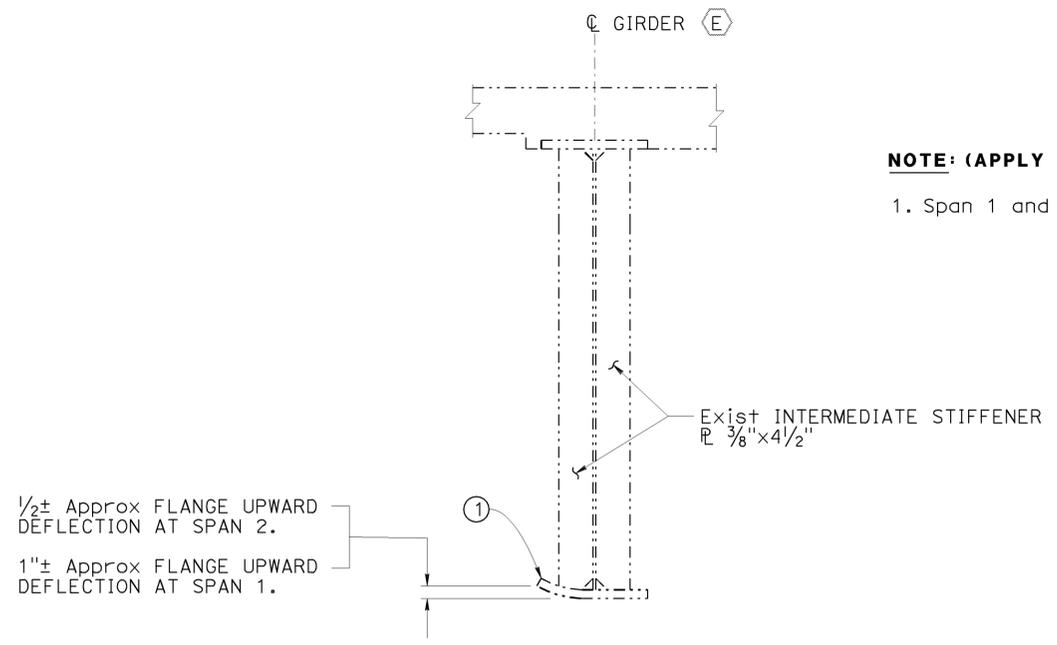
COPE DETAIL

LEGEND:

- Indicates existing.
- Indicates approx limit of clean and paint bottom flange girders.
- ① Indicates location of heat and force straighten damaged girder as approved by the Engineer.

NOTES:

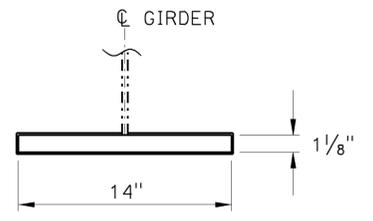
1. For location of SECTION A-A & SECTION B-B see "GIRDER REPAIR DETAILS NO. 1" sheet.



SECTION B-B

NOTE: (APPLY TO SECTION B-B)

1. Span 1 and 2 similar.



TYPICAL PAINT LIMIT DETAIL

LAKE MURRAY BLVD

NO SCALE
(Br No. 57-0341)

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 Edward Nahm	CHECKED Tony Brake
DETAILS	BY Tom Dang	CHECKED Tony Brake
QUANTITIES	BY Edward Nahm	CHECKED Tony Brake

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	Various
POST MILE	Varies

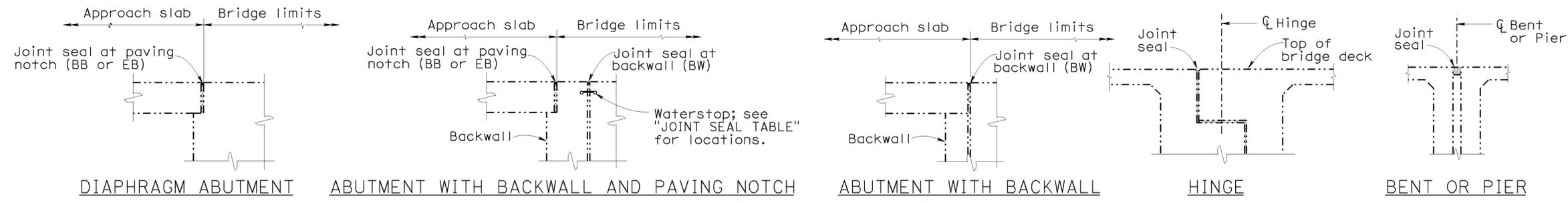
RTE 5,8,67,94,163 BRIDGES
GIRDER REPAIR DETAILS NO. 2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5, 8, 67, 94, 163	Var	46	47

01/18/13
 REGISTERED CIVIL ENGINEER DATE
 02-25-13
 PLANS APPROVAL DATE

EDWARD J. NAHM
 No. C66900
 Exp. 09/30/14
 CIVIL
 STATE OF CALIFORNIA

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JOINT SEAL LOCATION

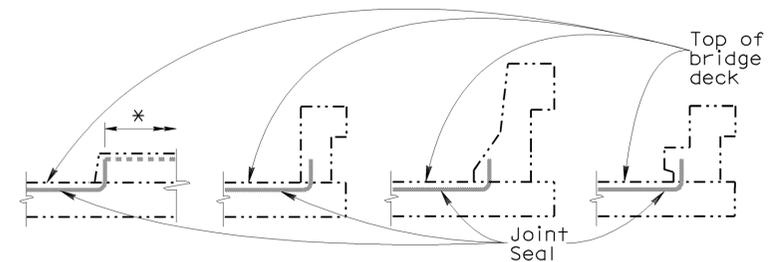
NO SCALE
 Abutment joint seal is not required with AC roadway pavement transverse contact joint.

JOINT SEAL TABLE							
BRIDGE NAME	BRIDGE NUMBER	LOCATION		MINIMUM "MR" (INCH)	APPROX JOINT LENGTH (LF)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXP JOINT (INCH)
		ABUT	BW				
N5-6TH AVENUE/N&S163-N5 OC	57-0397S	ABUT 1	BW	1 1/2	22	YES	6
		ABUT 4	BW	1 1/2	22	YES	6
WASHINGTON STREET UC	57-0546L	ABUT 1	PN	1/2	74	NO	9
		HINGE 2	DJ	1 1/2	74	YES	6
		HINGE 3	DJ	1 1/2	74	YES	6
		ABUT 4	PN	1/2	74	NO	9
NOELL STREET UC	57-0547	ABUT 1	PN	1/2	119	NO	9
		BENT 2	DJ	1 1/2	161	NO	9
		BENT 3	DJ	1 1/2	161	NO	9
		ABUT 4	PN	1/2	119	NO	9
ROSE CANYON CREEK	57-0289	SB	DJ**	TYPE AL	445	NO	6
		NB	DJ**	TYPE AL	445	NO	6
CHESTNUT AVENUE UC	57-0275	ABUT 1	PN	1/2	141	NO	9
		ABUT 2	PN	1/2	141	NO	9
BUENA VISTA LAGOON	57-0277	ABUT 1	PN	1/2	166	NO	9
		ABUT 4	PN	1/2	164	NO	9
LAKE MURRAY BLVD OC	57-0341	ABUT 1	BW	1/2	62	NO	9
		BENT 2	DJ	1/2	62	NO	9
		BENT 3	DJ	1/2	62	NO	9
		BENT 4	DJ	1/2	62	NO	9
		ABUT 5	BW	1/2	62	NO	9
MARSHALL AVENUE OH	57-0369	ABUT 1	PN	1/2	169	NO	9
		ABUT 1	BW	1/2	280	YES	6
		ABUT 4	BW	1/2	280	YES	6
		ABUT 4	PN	1/2	169	NO	9
ROUTE 8/79 SEPARATION	57-0689R	ABUT 1	PN	1/2	62	NO	9
		ABUT 2	PN	1/2	62	NO	9
CAMPO ROAD OC	57-0803	ABUT 1	BW	1 1/2	40	YES	6
		ABUT 6	BW	1 1/2	40	YES	6
SWEETWATER RIVER	57-0962	ABUT 1	PN	2	48	NO	9
		ABUT 4	PN	2	48	NO	9

PN = Paving notch
 BW = Backwall
 DJ** = Longitudinal Deck Joint
 DJ = Deck Joint

NOTES:

- The following notes apply to JOINT SEAL TYPE A:
- Install Joint Seal (MR = 1/2 ") 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 STANDARD PLAN B6-21.
- The following notes apply to JOINT SEAL TYPE B:
- Seal must satisfy both minimum Movement Rating (MR) and minimum W1 requirements.
 - 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.
 - W1 shall be the smaller of the values determined as follows:
 - 0.85 times the manufacturer's designed minimum uncompressed width of the seal.
 - 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.
 - 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 STANDARD PLAN B6-21.



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.
 * Extension of joint seal will be determined by the Engineer if necessary.

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 Edward Nahm	CHECKED Tony Brake	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	RTE 5, 8, 67, 94, 163 BRIDGES	
	DETAILS	BY Tom Dang	CHECKED Tony Brake			POST MILE		MISCELLANEOUS DETAILS NO. 1
	QUANTITIES	BY Edward Nahm	CHECKED Tony Brake			Varies		

STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 09-01-10) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

UNIT: 3489 PROJECT NUMBER & PHASE: 1112000123 CONTRACT NO.: 11-2M1501

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
11-25-12	18	19

FILE => 11-2m1501-d-miscdt101.dgn

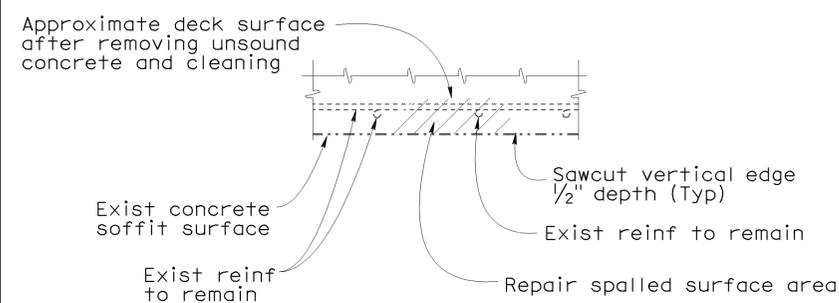
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,67,94,163	Var	47	47

<i>Edward J. Nahm</i>	01/18/13
REGISTERED CIVIL ENGINEER	DATE
02-25-13	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER
 EDWARD J. NAHM
 No. C66900
 Exp. 09/30/14
 CIVIL
 STATE OF CALIFORNIA

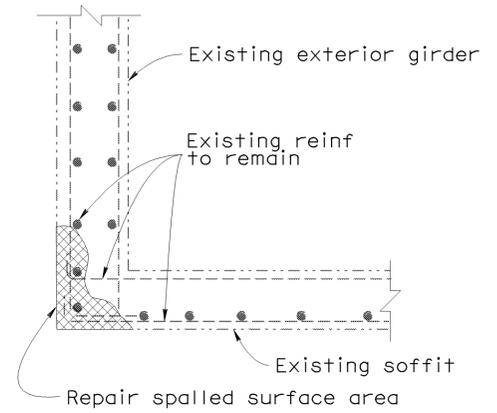
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

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



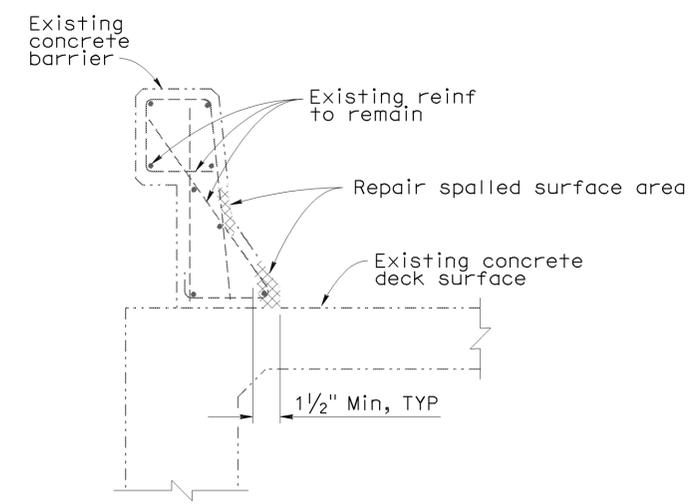
SOFFIT REPAIR DETAIL

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



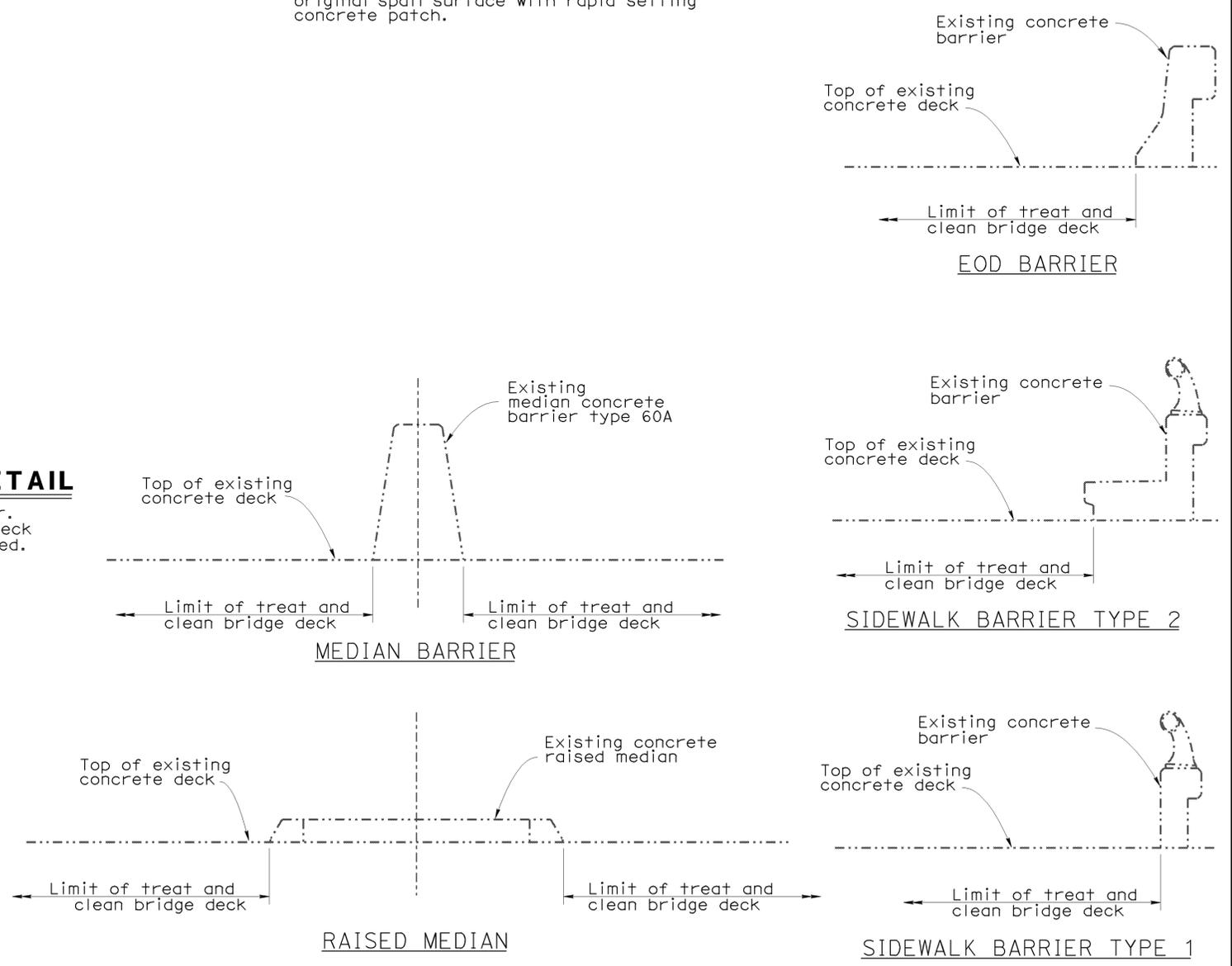
SPALLED SURFACE AREA DETAIL

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



CONCRETE BARRIER SPALL REPAIR DETAIL

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



TYPICAL LIMITS OF DECK WORK

NO SCALE

NOTE:
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DESIGN	BY Edward Nahm	CHECKED Tony Brake
DETAILS	BY Tom Dang	CHECKED Tony Brake
QUANTITIES	BY Edward Nahm	CHECKED Tony Brake

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	Various
POST MILE	Varies

RTE 5,8,67,94,163 BRIDGES
MISCELLANEOUS DETAILS NO. 2