Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	101	R5.0/R17.7	1	24

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE SHEET AND LOCATION MAP
2	TYPICAL CROSS SECTIONS
3	CONSTRUCTION AREA SIGNS
4-16	MOTORIST INFORMATION PLAN, DETAILS AND QUANTITIES
17	PAVEMENT DELINEATION DETAILS AND QUANTITIES
18	SUMMARY OF QUANTITIES
19-24	REVISED STANDARD PLANS

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

STATE OF CALIFORNIA

DEPARTMENT OF TRANSPORTATION

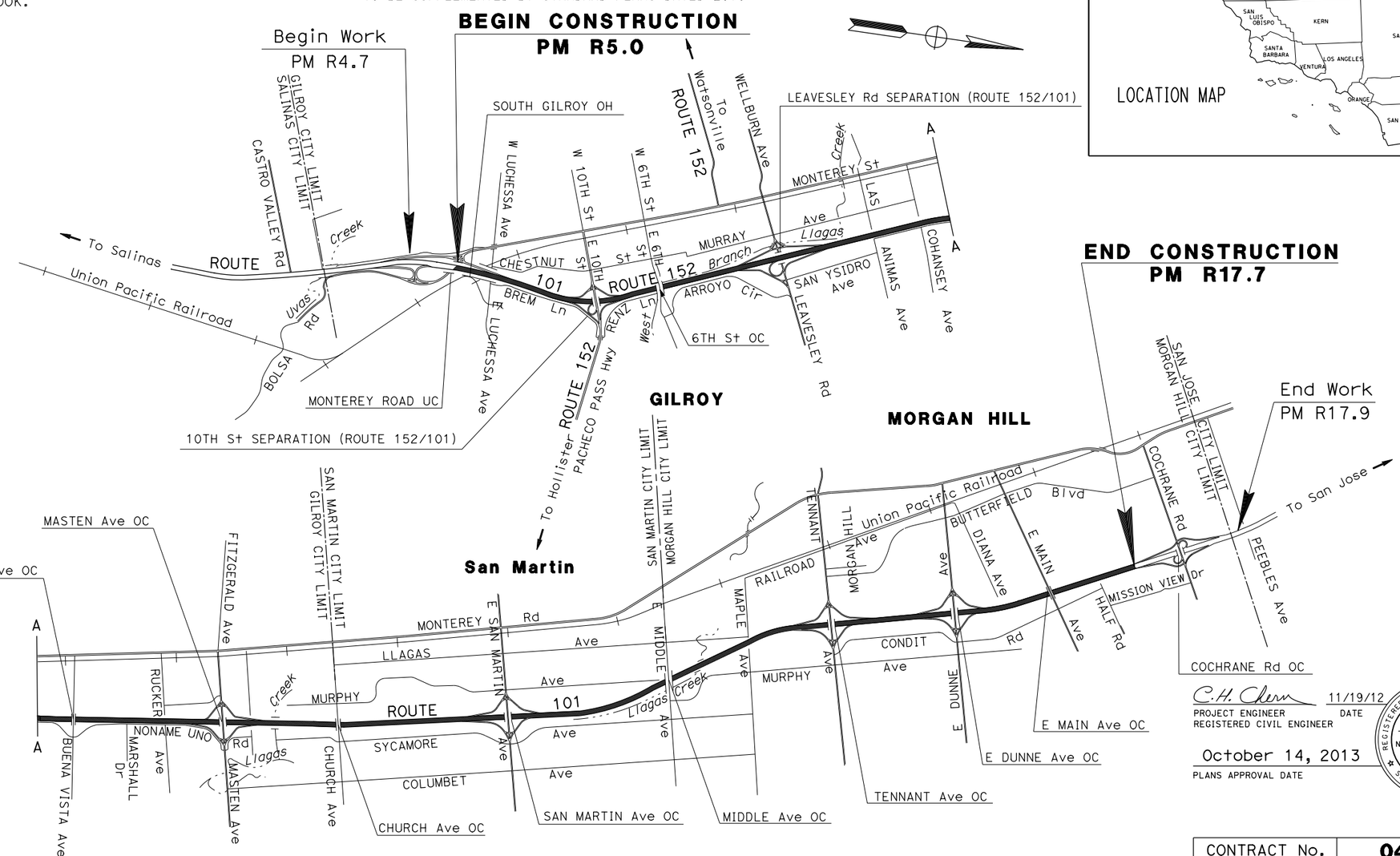
PROJECT PLANS FOR CONSTRUCTION ON

STATE HIGHWAY

IN SANTA CLARA COUNTY
IN GILROY AND MORGAN HILL
FROM 0.1 MILE NORTH OF MONTEREY ROAD UNDERCROSSING
TO 0.1 MILE SOUTH OF COCHRANE ROAD OVERCROSSING

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

LOCATION MAP



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

NO SCALE

C.H. Chern 11/19/12
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

October 14, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Chuen-Hsiung Chern No. 48187 Exp. 6-30-14 CIVIL STATE OF CALIFORNIA

CONTRACT No.	04-3E3104
PROJECT ID	0412000294

PROJECT MANAGER: RAMSES SARGISS
DESIGN MANAGER: NGOC TRAN

LAST REVISION 10-02-13 | DATE PLOTTED => 29-OCT-2013 | TIME PLOTTED => 15:23

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	101	R5.0/R17.7	2	24

C.H. Chern 5/20/13
REGISTERED CIVIL ENGINEER DATE

10-14-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Chuen-Hsiung Chern No. 48187 Exp. 6-30-14 CIVIL STATE OF CALIFORNIA

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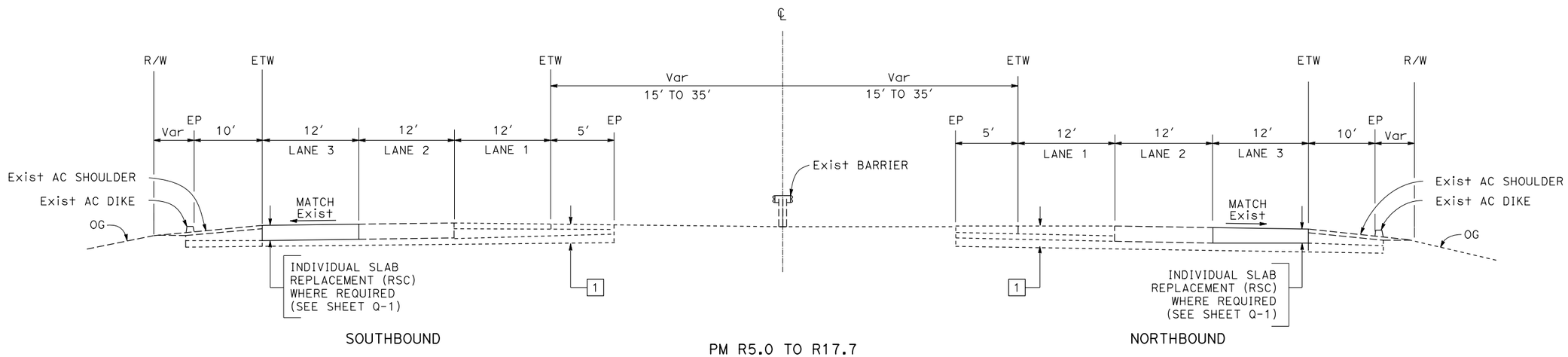
ABBREVIATION:

RSC RAPID STRENGTH CONCRETE

NOTES:

1. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
3. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
4. NO INDIVIDUAL SLAB REPLACEMENT ON APPROACH SLABS, AND ON ELECTRICAL LOOP SENSORS.



PM R5.0 TO R17.7

1 EXISTING MAINLINE STRUCTURAL SECTION (NB & SB)

PM	INSIDE SHOULDER	OUTSIDE SHOULDER	INSIDE LANE (LANE 1)	OUTSIDE LANES (LANES 2 & 3)
R5.0 TO R8.0	0.25' AC (TYPE B)	0.35' AC (TYPE B)	0.70' PCC 0.45' CTB (TYPE A) 0.55' CLASS 4 AS	0.75' PCC 0.45' CTB 0.50' CLASS 4 AS
	0.90' CLASS 2 AB	0.90' CLASS 2 AB		
	0.50' CLASS 4 AS	0.45' CLASS 4 AS		
R8.0 TO R14.0	0.25' AC (TYPE B)	0.35' AC (TYPE B)		
	0.90' CLASS 2 AB	0.85' CLASS 2 AB		
	0.55' CLASS 4 AS	0.45' CLASS 4 AS		
R14.0 TO R17.7	0.20' AC (TYPE B)	0.35' AC (TYPE B)		AS ABOVE SECTION EXCEPT 1.2' PCC 0.5' AS (4) FOR NB LANE 3
	0.95' CLASS 2 AB	0.85' CLASS 2 AB		
	0.55' CLASS 4 AS	0.50' CLASS 4 AS		

TYPICAL CROSS SECTIONS

NO SCALE

X-1

REVISED BY	DATE REVISED
CC	10/11/13

CHUEN-HSIUNG CHERN — NGOC TRAN
CALCULATED-DESIGNED BY — CHECKED BY
FUNCTIONAL SUPERVISOR: NGOC TRAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DESIGN

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	101	R5.0/R17.7	3	24

REGISTERED CIVIL ENGINEER 5/20/13 DATE

10-14-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Jerilyn L. Struven No. 49964 Exp. 12-31-14 CIVIL STATE OF CALIFORNIA

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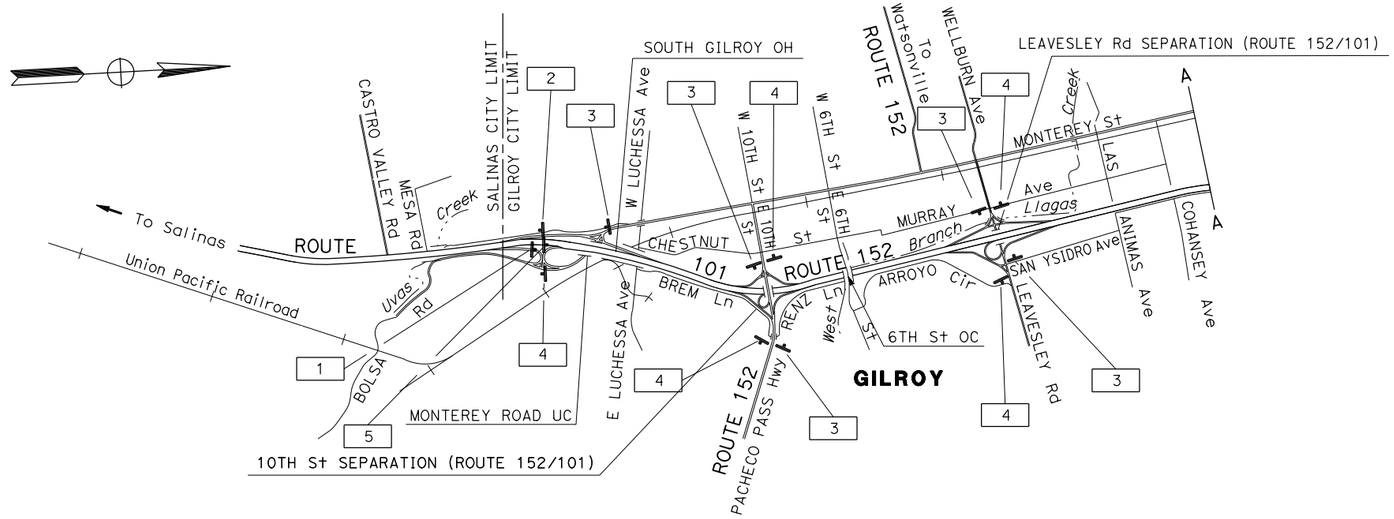

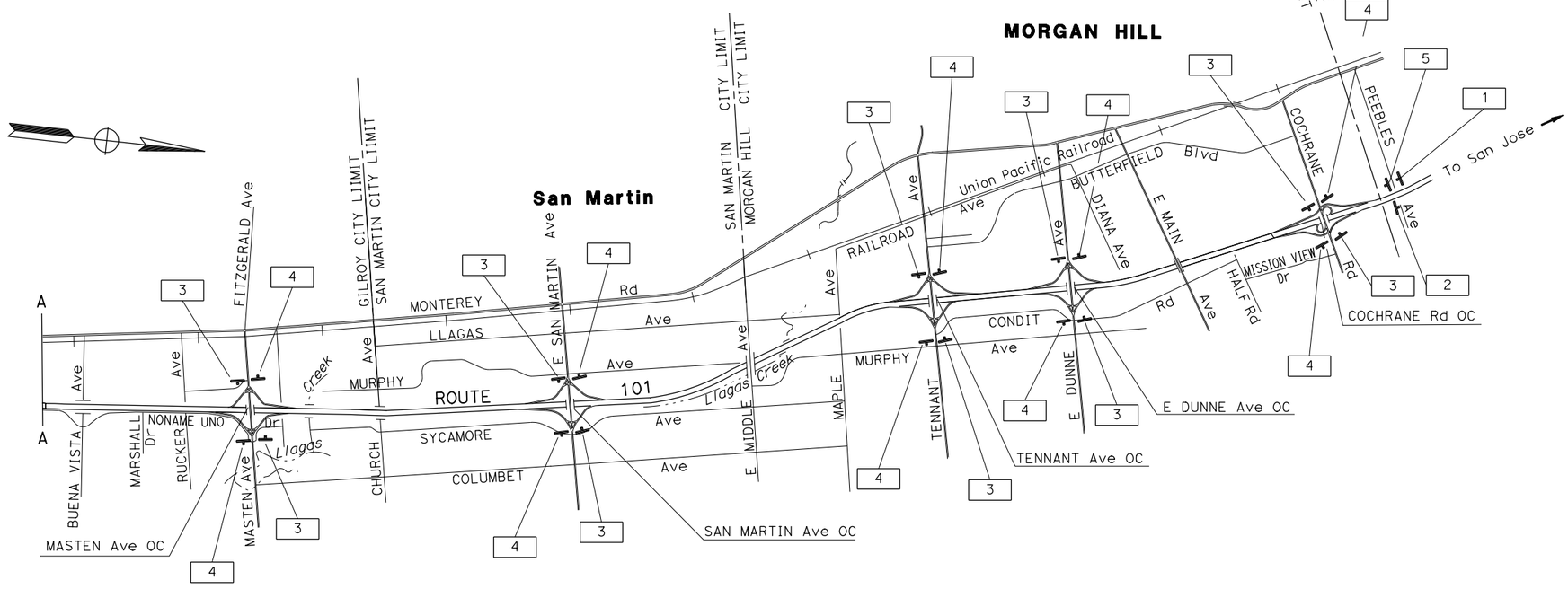

LEGEND:

- [No.] CONSTRUCTION AREA SIGN NUMBER
- ⇨ TRAFFIC DIRECTION
- ✕ RAMP CLOSED

NOTES:

1. LOCATION OF CONSTRUCTION AREA SIGNS AND MOTORIST INFORMATION PLAN FOR DETOUR SIGNS SHOWN ARE APROXIMATE, EXACT LOCATION TO BE DETERMINED BY THE ENGINEER.
2. ALL CONSTRUCTION AREA SIGNS AND MOTORIST INFORMATION PLAN FOR DETOUR SIGNS SHALL BE STATIONARY MOUNTED UNLESS OTHERWISE INDICATED.

CONTRUCTION AREA SIGNS

NO SCALE

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CS-1

REVISED BY	RY
DATE REVISED	10/11/13
CALCULATED-DESIGNED BY	ROY YUAN
CHECKED BY	JERILYN STRUVEN
FUNCTIONAL SUPERVISOR	ROLAND AU-YEUNG

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	101	R5.0/R17.7	4	24

REGISTERED CIVIL ENGINEER 5/20/13 DATE

10-14-13
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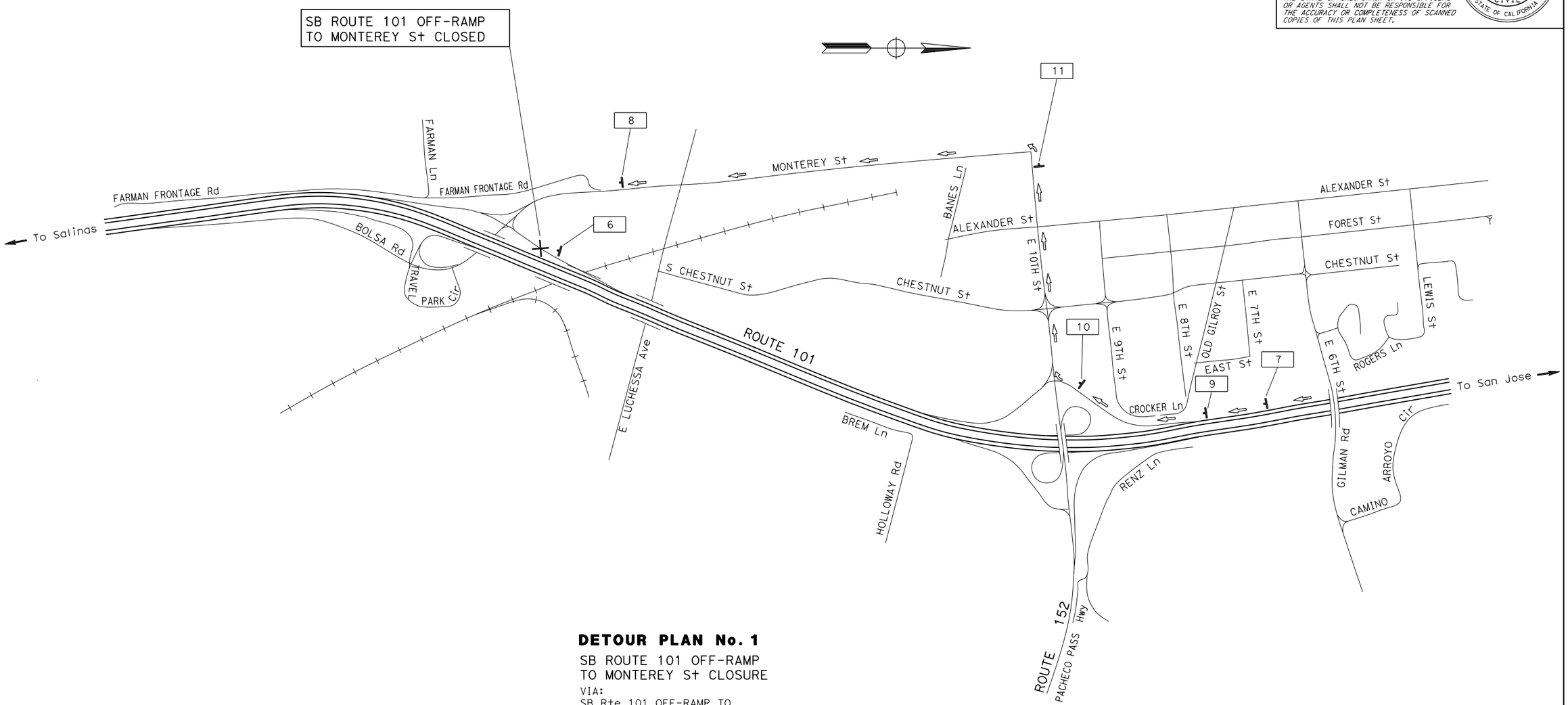

DETOUR PLAN No. 1

SB ROUTE 101 OFF-RAMP
TO MONTEREY St CLOSURE

VIA:
SB Rte 101 OFF-RAMP TO
E 10TH St; WB E 10TH St
TO MONTEREY St/SB MONTEREY St

MOTORIST INFORMATION PLAN

NO SCALE

APPROVED FOR MOTORIST INFORMATION WORK ONLY

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET CS-1

MI-1

REVISED BY	RY
DATE REVISED	10/11/13
CALCULATED-DESIGNED BY	ROY YUAN
CHECKED BY	JERILYN STRUVEN
FUNCTIONAL SUPERVISOR	ROLAND AU-YEUNG

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	101	R5.0/R17.7	5	24

REGISTERED CIVIL ENGINEER 5/20/13 DATE

10-14-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Jerilyn L. Struven No. 49964 Exp. 12-31-14 CIVIL STATE OF CALIFORNIA

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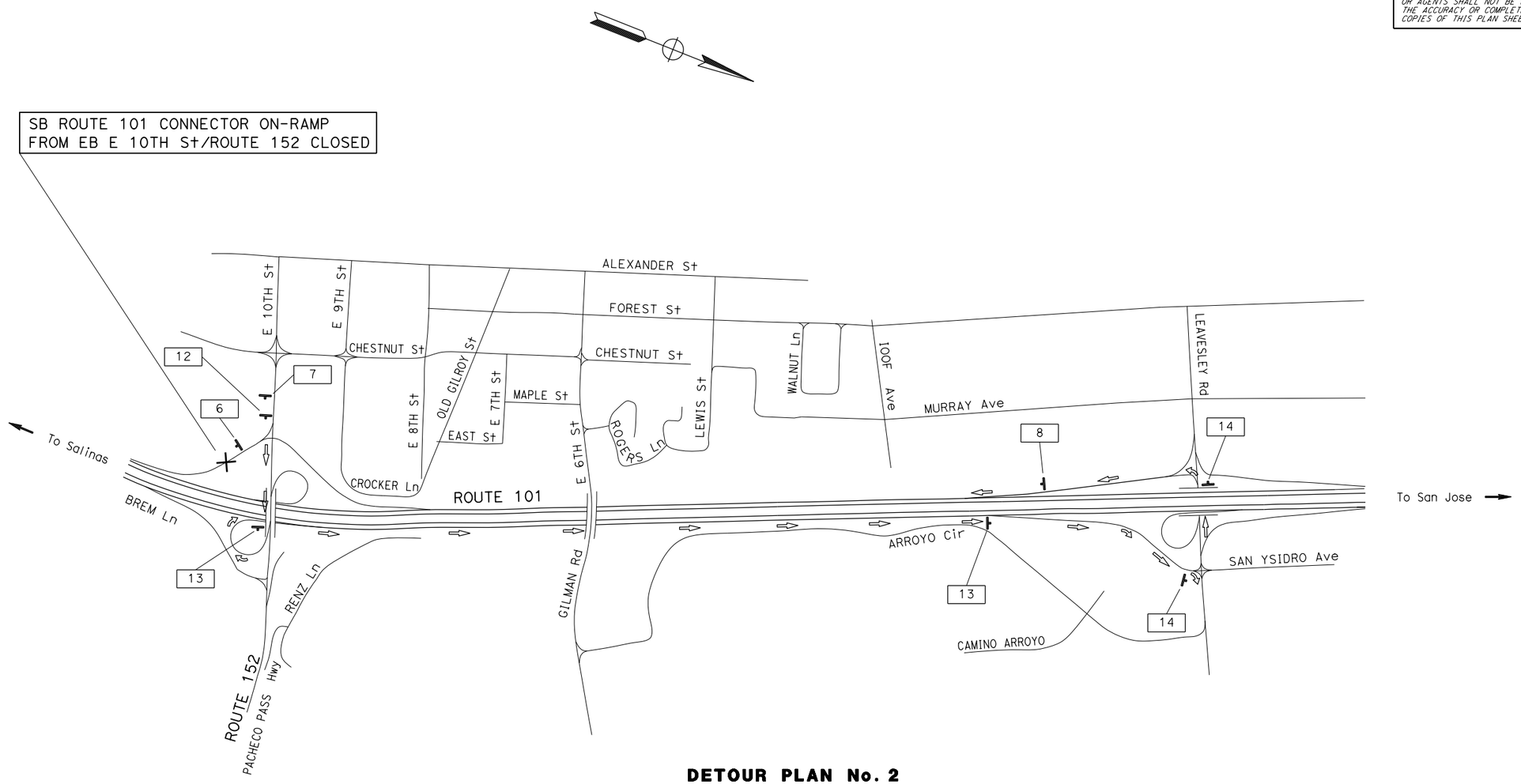
SB ROUTE 101 CONNECTOR ON-RAMP
FROM EB E 10TH St/ROUTE 152 CLOSED



DETOUR PLAN No. 2

SB ROUTE 101 CONNECTOR
ON-RAMP FROM FROM EB E 10TH
St/ROUTE 152 CLOSURE

VIA:
LOOP ON-RAMP TO NB Rte 101;
NB Rte 101; OFF-RAMP TO LEAVESLEY Rd;
WB LEAVESLEY TO SB ROUTE 101 ON-RAMP

APPROVED FOR MOTORIST INFORMATION WORK ONLY

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET CS-1

MOTORIST INFORMATION PLAN

NO SCALE

MI-2

CALCULATED-DESIGNED BY	ROY YUAN
CHECKED BY	JERILYN STRUVEN
FUNCTIONAL SUPERVISOR	ROLAND AU-YEUNG
REVISED BY	RY
DATE REVISED	10/11/13

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LAST REVISION 10-02-13
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TIME PLOTTED => 15:24

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	101	R5.0/R17.7	6	24

REGISTERED CIVIL ENGINEER 5/20/13 DATE

10-14-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Jerilyn L. Struven No. 49964 Exp. 12-31-14 CIVIL STATE OF CALIFORNIA

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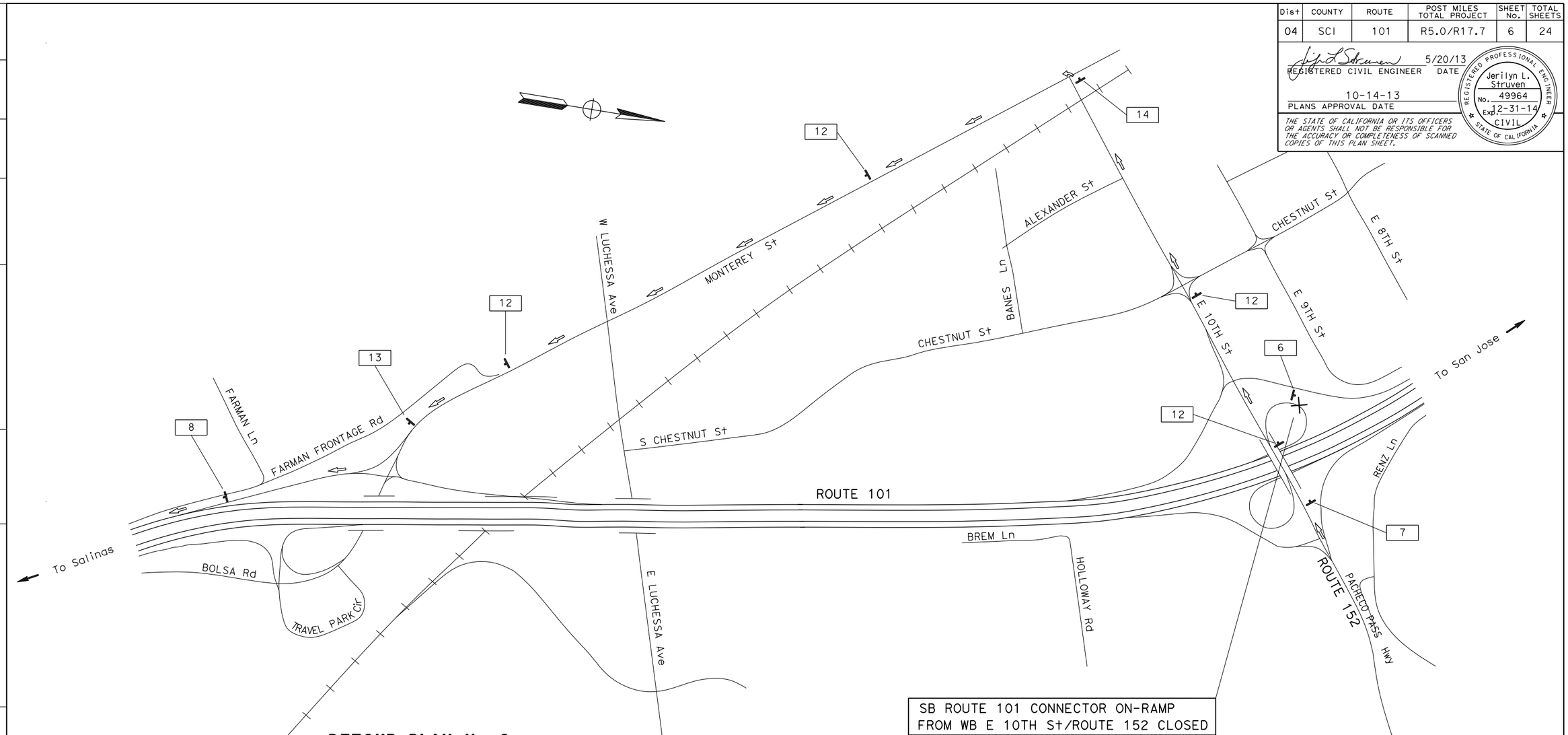

SB ROUTE 101 CONNECTOR ON-RAMP
FROM WB E 10TH St/ROUTE 152 CLOSED

DETOUR PLAN No. 3

SB ROUTE 101 CONNECTOR
ON-RAMP FROM FROM WB
E 10TH St/ROUTE 152 CLOSURE

VIA:
WB E 10TH St; SB MONTEREY St TO
ON-RAMP TO SB Rte 101.

MOTORIST INFORMATION PLAN

NO SCALE

APPROVED FOR MOTORIST INFORMATION WORK ONLY

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET CS-1

MI-3

REVISED BY	RY
DATE REVISED	10/11/13
CALCULATED-DESIGNED BY	ROY YUAN
CHECKED BY	JERILYN STRUVEN
FUNCTIONAL SUPERVISOR	ROLAND AU-YEUNG

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LAST REVISION 10-02-13
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TIME PLOTTED => 15:24

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	101	R5.0/R17.7	7	24

REGISTERED CIVIL ENGINEER 5/20/13 DATE

10-14-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Jerilyn L. Struven No. 49964 Exp. 12-31-14 CIVIL STATE OF CALIFORNIA

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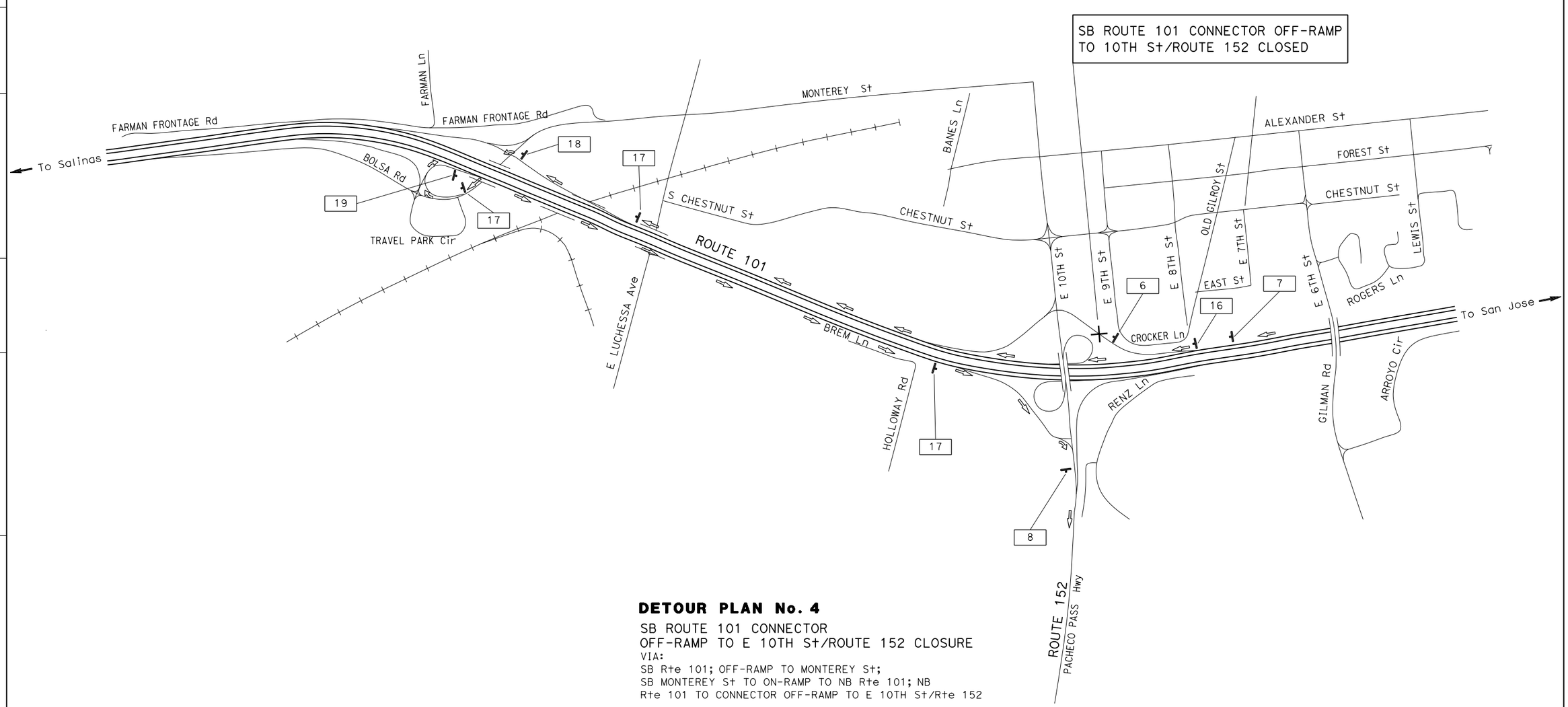

DETOUR PLAN No. 4

SB ROUTE 101 CONNECTOR
OFF-RAMP TO E 10TH St/ROUTE 152 CLOSURE
VIA:
SB Rte 101; OFF-RAMP TO MONTEREY St;
SB MONTEREY St TO ON-RAMP TO NB Rte 101; NB
Rte 101 TO CONNECTOR OFF-RAMP TO E 10TH St/Rte 152

MOTORIST INFORMATION PLAN

NO SCALE

APPROVED FOR MOTORIST INFORMATION WORK ONLY

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET CS-1

MI-4

REVISED BY	RY
DATE REVISED	10/11/13
ROY YUAN	JERILYN STRUVEN
CALCULATED-DESIGNED BY	CHECKED BY
FUNCTIONAL SUPERVISOR	ROLAND AU-YEUNG

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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LAST REVISION 10-02-13
DATE PLOTTED => 29-OCT-2013
TIME PLOTTED => 15:24

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	101	R5.0/R17.7	8	24

REGISTERED CIVIL ENGINEER 5/20/13 DATE

10-14-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Jerilyn L. Struven No. 49964 Exp. 12-31-14 CIVIL STATE OF CALIFORNIA

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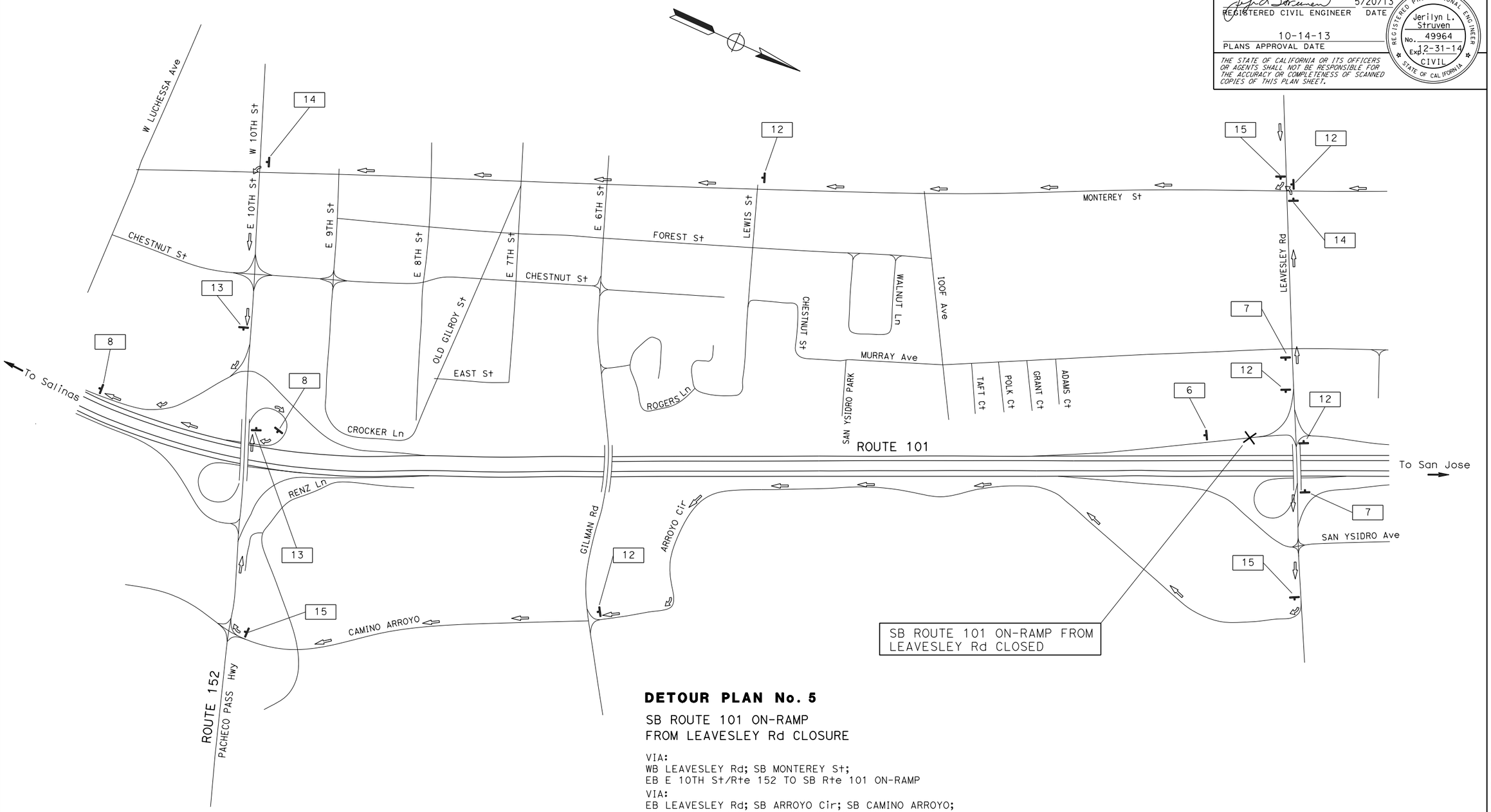

DETOUR PLAN No. 5

SB ROUTE 101 ON-RAMP
FROM LEAVESLEY Rd CLOSURE

VIA:
WB LEAVESLEY Rd; SB MONTEREY St;
EB E 10TH St/Rte 152 TO SB Rte 101 ON-RAMP

VIA:
EB LEAVESLEY Rd; SB ARROYO Cir; SB CAMINO ARROYO;
WB Rte 152 TO SB Rte 101 LOOP ON-RAMP

MOTORIST INFORMATION PLAN

NO SCALE

APPROVED FOR MOTORIST INFORMATION WORK ONLY

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET CS-1

MI-5

REVISED BY	RY
DATE REVISED	10/11/13
CALCULATED-DESIGNED BY	ROY YUAN
CHECKED BY	JERILYN STRUVEN
FUNCTIONAL SUPERVISOR	ROLAND AU-YEUNG

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	101	R5.0/R17.7	9	24

REGISTERED CIVIL ENGINEER 5/20/13 DATE

10-14-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Jerilyn L. Struven No. 49964 Exp. 12-31-14 CIVIL STATE OF CALIFORNIA

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DETOUR PLAN No. 6
SB ROUTE 101 ON-RAMP
FROM MASTEN Ave CLOSURE
VIA:
WB MASTEN Ave; SB MONTEREY Hwy;
EB LEAVESLEY Rd TO ON-RAMP
TO SB ROUTE 101

MOTORIST INFORMATION PLAN

NO SCALE

APPROVED FOR MOTORIST INFORMATION WORK ONLY

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET CS-1

MI-6

REVISED BY	DATE REVISED
RY	10/11/13

CALCULATED-DESIGNED BY: ROY YUAN
CHECKED BY: JERILYN STRUVEN
FUNCTIONAL SUPERVISOR: ROLAND AU-YEUNG

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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LAST REVISION 10-02-13 | DATE PLOTTED => 29-OCT-2013 | TIME PLOTTED => 15:24

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	101	R5.0/R17.7	10	24

REGISTERED CIVIL ENGINEER 5/20/13 DATE

10-14-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Jerilyn L. Struven No. 49964 Exp. 12-31-14 CIVIL STATE OF CALIFORNIA

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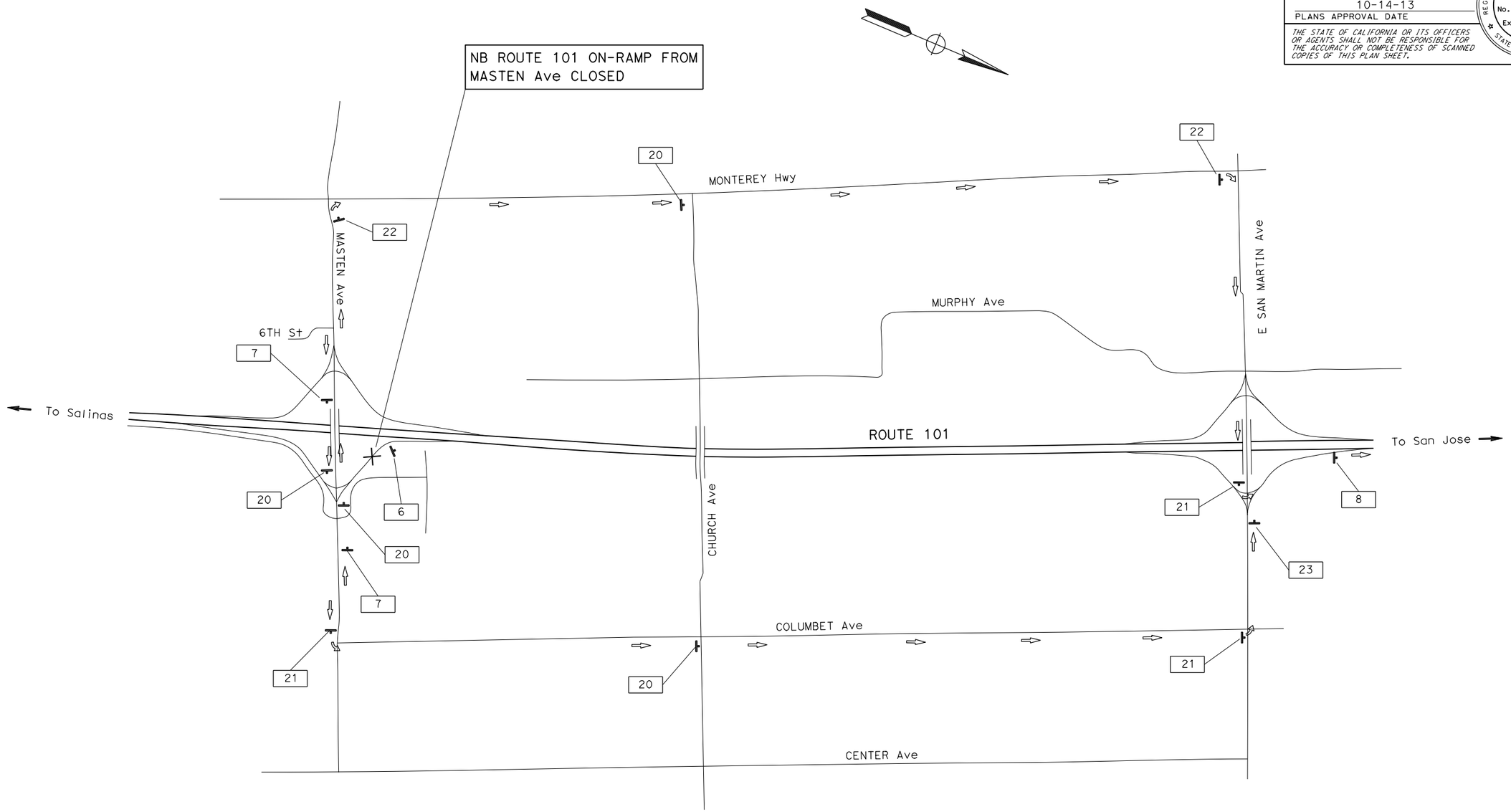

DETOUR PLAN No. 7

NB ROUTE 101 ON-RAMP
FROM MASTEN Ave CLOSURE

VIA:
WB MASTEN Ave; NB MONTEREY Hwy;
EB E SAN MARTIN Ave; ON-RAMP TO NB Rte 101

VIA:
EB MASTEN Ave; NB COLUMBET Ave;
WB E SAN MARTIN; ON-RAMP TO NB Rte 101

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FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET CS-1

MOTORIST INFORMATION PLAN

NO SCALE

MI-7

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	Caltrans® TRAFFIC	FUNCTIONAL SUPERVISOR	ROLAND AU-YEUNG
CALCULATED-DESIGNED BY	ROY YUAN	CHECKED BY	JERILYN STRUVEN
REVISED BY	RY	DATE REVISED	10/11/13

LAST REVISION 10-02-13 DATE PLOTTED => 29-OCT-2013 TIME PLOTTED => 15:25

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	101	R5.0/R17.7	11	24

REGISTERED CIVIL ENGINEER 5/20/13 DATE

10-14-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Jerilyn L. Struven No. 49964 Exp. 12-31-14 CIVIL STATE OF CALIFORNIA

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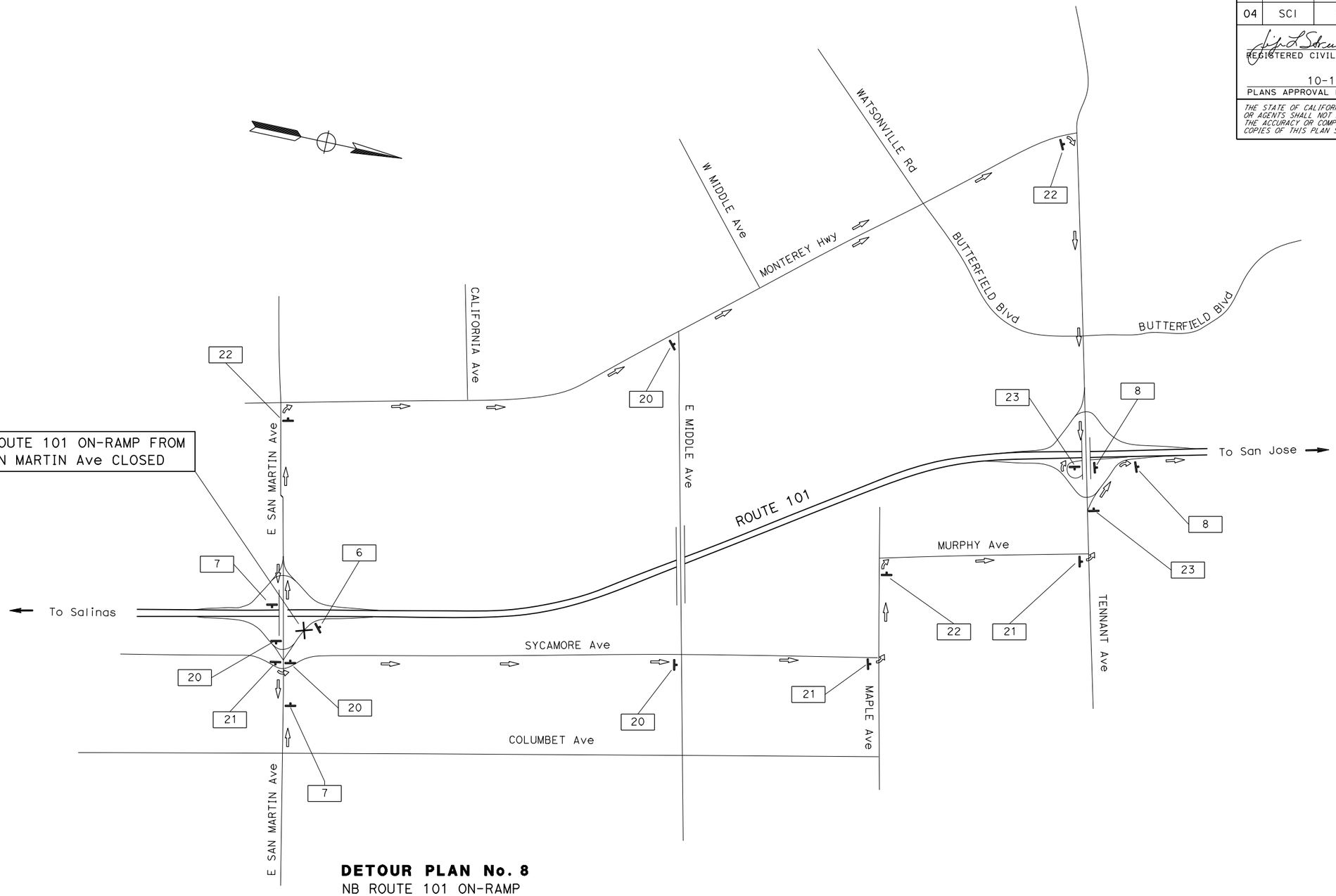

DETOUR PLAN No. 8

NB ROUTE 101 ON-RAMP
FROM E SAN MARTIN Ave CLOSURE

VIA:
EB E SAN MARTIN Ave; NB SYCAMORE Ave; WB MAPLE Ave;
NB MURPHY Ave; WB TENNANT Ave TO ON-RAMP TO NB Rte 101.

VIA:
WB E SAN MARTIN Ave; NB MONTEREY Hwy; EB TENNANT Ave
TO ON-RAMP TO NB Rte 101.

MOTORIST INFORMATION PLAN

NO SCALE

APPROVED FOR MOTORIST INFORMATION WORK ONLY

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET CS-1

MI-8

REVISED BY	RY
DATE REVISED	10/11/13
ROY YUAN	
JERILYN STRUVEN	
CALCULATED-DESIGNED BY	
CHECKED BY	
FUNCTIONAL SUPERVISOR	
ROLAND AU-YEUNG	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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REGISTERED CIVIL ENGINEER 5/20/13 DATE

10-14-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Jerilyn L. Struven No. 49964 Exp. 12-31-14 CIVIL STATE OF CALIFORNIA

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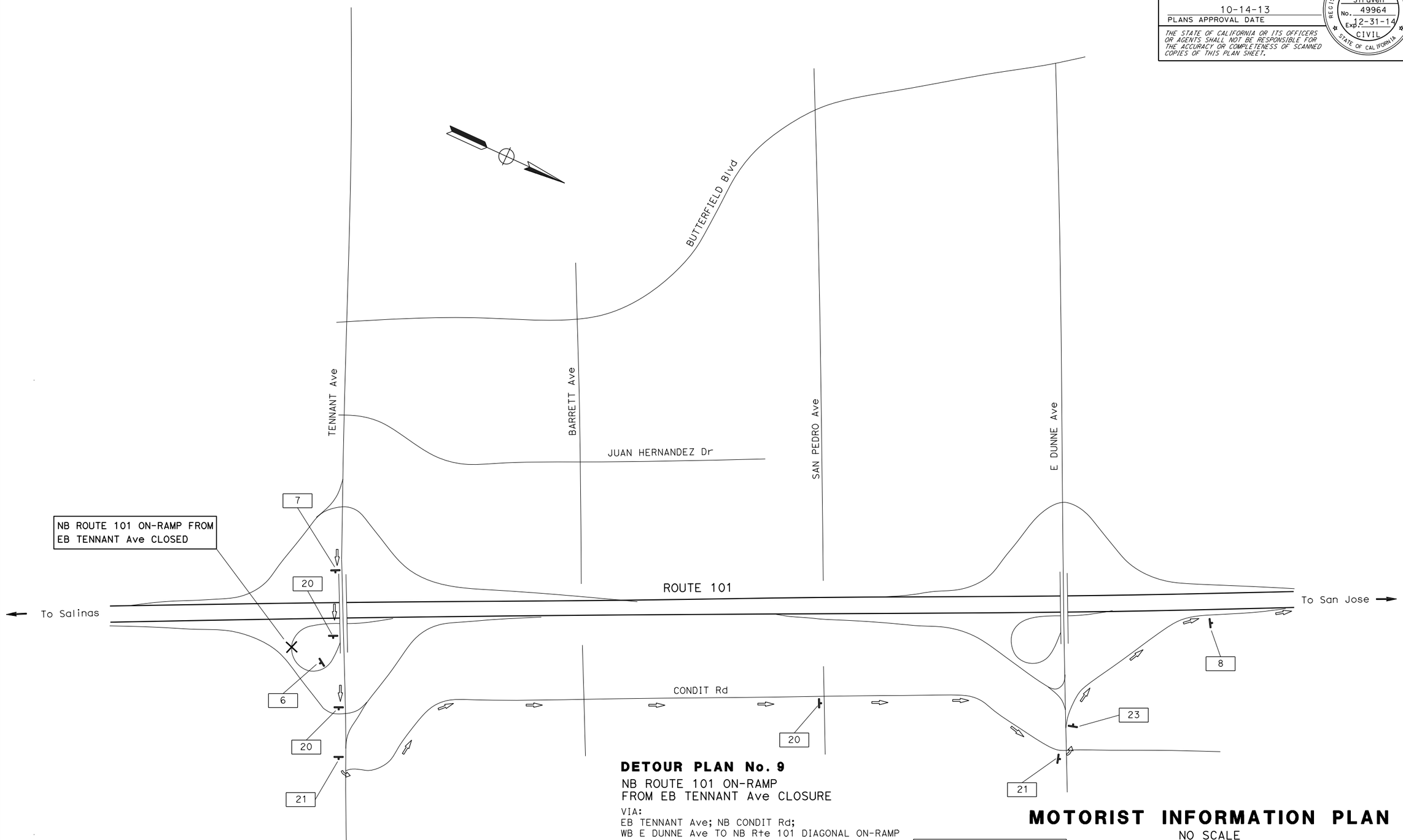

DETOUR PLAN No. 9

NB ROUTE 101 ON-RAMP
FROM EB TENNANT Ave CLOSURE

VIA:
EB TENNANT Ave; NB CONDIT Rd;
WB E DUNNE Ave TO NB Rte 101 DIAGONAL ON-RAMP

APPROVED FOR MOTORIST INFORMATION WORK ONLY

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET CS-1

MOTORIST INFORMATION PLAN

NO SCALE

MI-9

CALCULATED-DESIGNED BY	ROY YUAN
CHECKED BY	JERILYN STRUVEN
REVISED BY	RY
DATE REVISED	10/11/13
FUNCTIONAL SUPERVISOR	ROLAND AU-YEUNG

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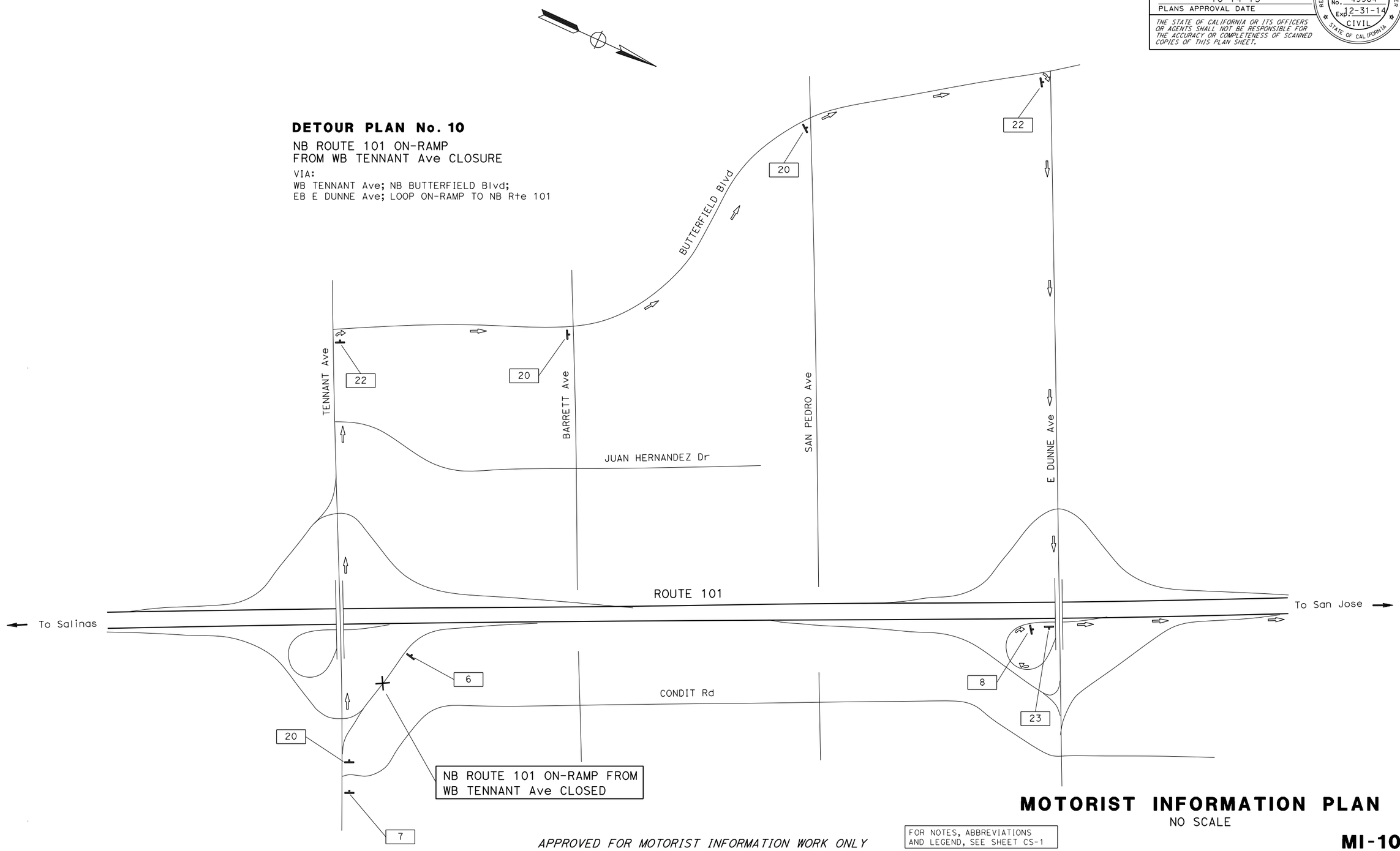
DETOUR PLAN No. 10

NB ROUTE 101 ON-RAMP
FROM WB TENNANT Ave CLOSURE

VIA:
WB TENNANT Ave; NB BUTTERFIELD Blvd;
EB E DUNNE Ave; LOOP ON-RAMP TO NB Rte 101



MOTORIST INFORMATION PLAN

NO SCALE

APPROVED FOR MOTORIST INFORMATION WORK ONLY

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET CS-1

MI-10

CALCULATED-DESIGNED BY	ROY YUAN
CHECKED BY	JERILYN STRUVEN
FUNCTIONAL SUPERVISOR	ROLAND AU-YEUNG
REVISED BY	RY
DATE REVISED	10/11/13

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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LAST REVISION 10-02-13
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TIME PLOTTED => 15:25

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	101	R5.0/R17.7	14	24

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REGISTERED PROFESSIONAL ENGINEER Jerilyn L. Struven No. 49964 Exp. 12-31-14 CIVIL STATE OF CALIFORNIA

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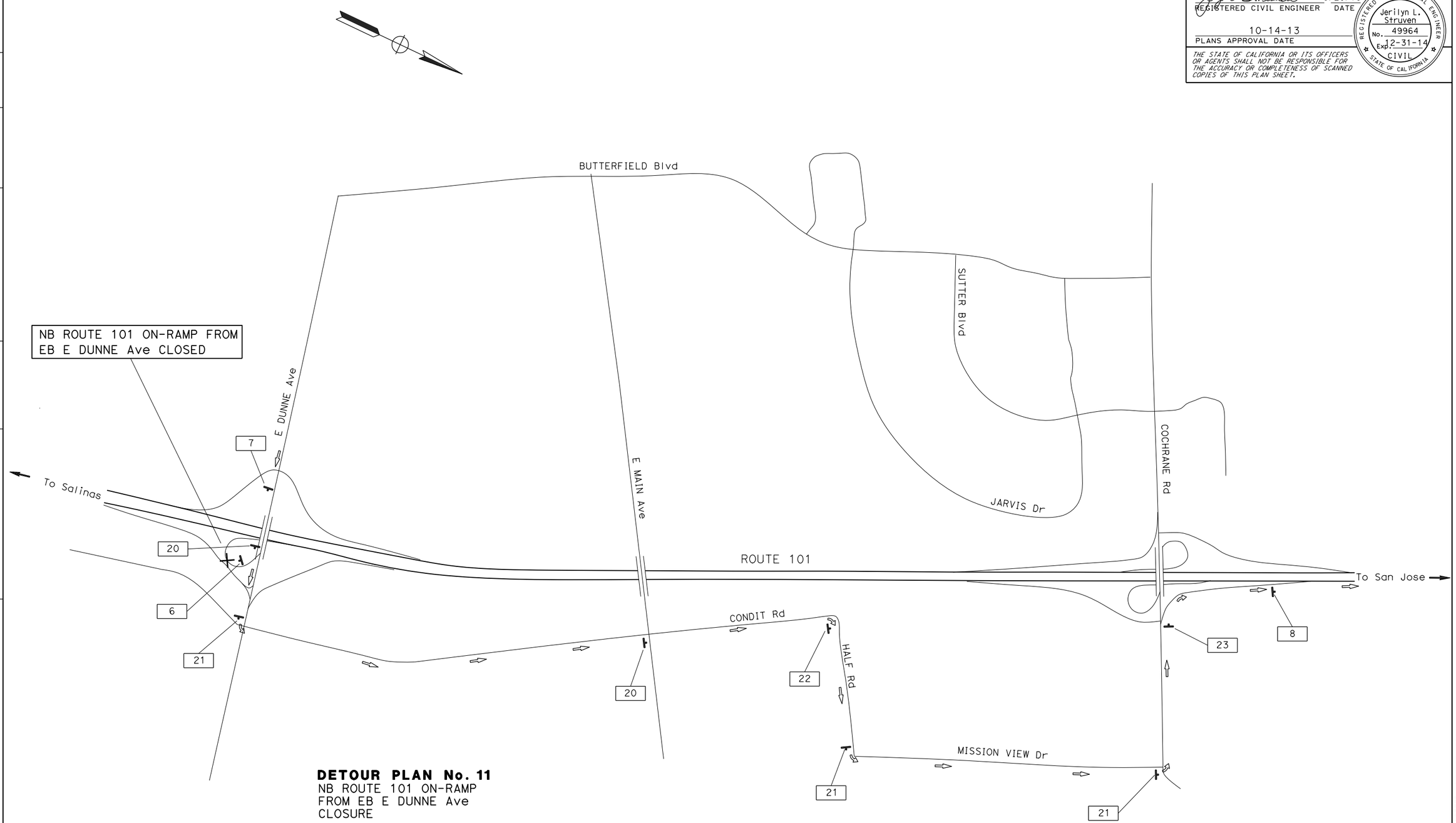

DETOUR PLAN No. 11
NB ROUTE 101 ON-RAMP
FROM EB E DUNNE Ave
CLOSURE

VIA:
EB E DUNNE Ave; NB CONDIT Rd;
EB HALF Rd; NB MISSION VIEW Dr; WB
COCHRANE Rd; ON-RAMP TO NB Rte 101

APPROVED FOR MOTORIST INFORMATION WORK ONLY

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET CS-1

MOTORIST INFORMATION PLAN
NO SCALE

MI-11

CALCULATED-DESIGNED BY	ROY YUAN
CHECKED BY	JERILYN STRUVEN
FUNCTIONAL SUPERVISOR	ROLAND AU-YEUNG
REVISED BY	RY
DATE REVISED	10/11/13

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC

LAST REVISION 10-02-13
DATE PLOTTED => 29-OCT-2013
TIME PLOTTED => 15:25

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	101	R5.0/R17.7	15	24

REGISTERED CIVIL ENGINEER 5/20/13 DATE

10-14-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Jerilyn L. Struven No. 49964 Exp. 12-31-14 CIVIL STATE OF CALIFORNIA

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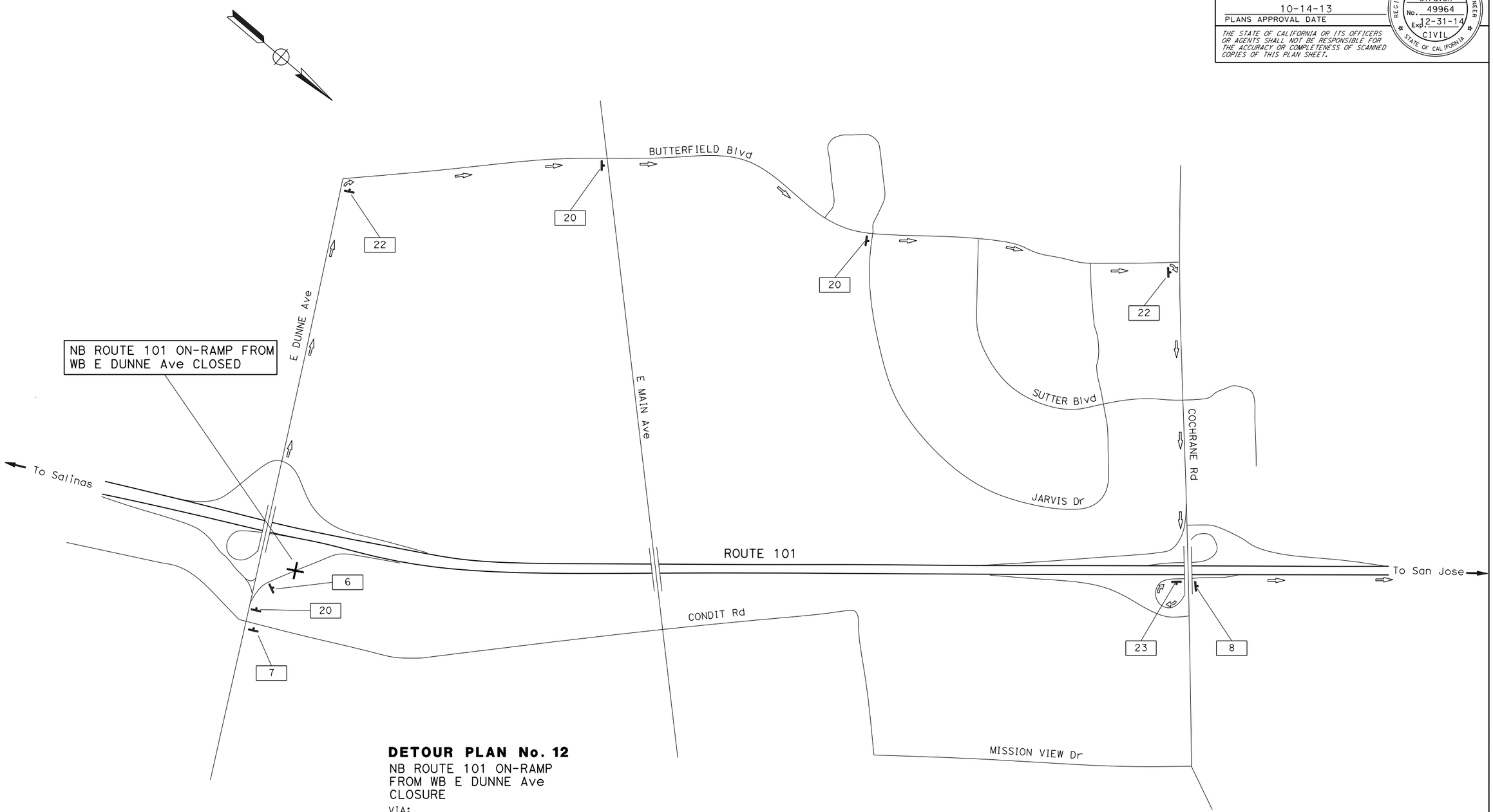

DETOUR PLAN No. 12

NB ROUTE 101 ON-RAMP FROM WB E DUNNE Ave CLOSURE

VIA:
WB E DUNNE Ave; NB BUTTERFIELD Blvd; EB COCHRANE Rd; LOOP ON-RAMP TO NB Rte 101

APPROVED FOR MOTORIST INFORMATION WORK ONLY

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET CS-1

MOTORIST INFORMATION PLAN

NO SCALE

MI-12

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	Caltrans® TRAFFIC	FUNCTIONAL SUPERVISOR	ROLAND AU-YEUNG
CALCULATED-DESIGNED BY	ROY YUAN	CHECKED BY	JERILYN STRUVEN
REVISED BY	RY	DATE REVISED	10/11/13

LAST REVISION 10-02-13 | DATE PLOTTED => 29-OCT-2013 | TIME PLOTTED => 15:25

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	101	R5.0/R17.7	16	24

REGISTERED CIVIL ENGINEER 5/20/13 DATE

10-14-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Jerilyn L. Struven No. 49964 Exp. 12-31-14 CIVIL STATE OF CALIFORNIA

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STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

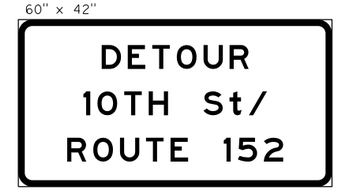
SIGN	SIGN CODE FEDERAL	SIGN CODE CALIFORNIA	PANEL SIZE (INCH x INCH)	SIGN MESSAGE	NUMBER OF POST & SIZE (EA-INCH x INCH	NUMBER OF SIGNS
1	W20-1		48 x 48	ROAD WORK AHEAD	(ONE) - 4 x 6	2
2	G20-2		48 x 24	END ROAD WORK	(ONE) - 4 x 6	2
3	W20-1		48 x 36	ROAD WORK AHEAD	(ONE) - 4 x 6	15
4	G20-2		36 x 18	END ROAD WORK	(ONE) - 4 x 6	15
5		C-40	72 x 36	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	(ONE) - 4 x 6	2
6		SC 6-4	48 x 60	RAMP CLOSED (DATE & TIME)	(ONE) - 6 x 6	12
7	W20-2		48 x 48	DETOUR AHEAD	(ONE) - 4 x 6	15
8	M4-8a		24 X 18	END DETOUR	(ONE) - 4 x 4	14
9		SPECIAL	72 x 30	SEE SPECIAL 1	(TWO) - 4 x 4	1
	M6-2 (↗)		21 x 15	DETOUR (DIAGONAL ARROW)		
10		SPECIAL	72 x 30	SEE SPECIAL 1	(TWO) - 4 x 4	1
	M4-10 (R↑)		48 x 18	DETOUR (RIGHT)		
11		SPECIAL	72 x 30	SEE SPECIAL 1	(TWO) - 4 x 4	1
	M4-10 (L↑)		48 x 18	DETOUR (LEFT)		
12		SC-3 (↑)	48 x 18	DETOUR (STRAIGHT AHEAD ARROW)	(ONE) - 4 x 6	13
		G26-2 (101)	28 x 24	ROUTE SHIELD		
	M3-3		21 x 9	SOUTH		
13	M4-8		21 x 9	DETOUR	(ONE) - 4 x 6	6
		G26-2 (101)	28 x 24	ROUTE SHIELD		
	M3-3		21 x 9	SOUTH		
	M6-2(↗)		21 x 9	DETOUR (DIAGONAL ARROW)		
14	M4-10 (L↑)		48 x 18	DETOUR (LEFT)	(ONE) - 4 x 6	8
		G26-2 (101)	28 x 24	ROUTE SHIELD		
	M3-3		21 x 9	SOUTH		
15	M4-10 (R↑)		48 x 18	DETOUR (RIGHT)	(ONE) - 4 x 6	4
		G26-2 (101)	28 x 24	ROUTE SHIELD		
	M3-3		21 x 9	SOUTH		
16		SPECIAL	60 x 42	SEE SPECIAL 2	(TWO) - 4 x 6	1
		SC-3 (↑)	48 x 18	DETOUR (STRAIGHT AHEAD ARROW)		
17		SPECIAL	60 x 42	SEE SPECIAL 2	(TWO) - 4 x 6	3
	M6-2(↗)		21 x 15	DETOUR (DIAGONAL ARROW)		
18		SPECIAL	60 x 42	SEE SPECIAL 2	(TWO) - 4 x 6	1
	M4-10 (L↑)		48 x 18	DETOUR (LEFT)		
19		SPECIAL	60 x 42	SEE SPECIAL 2	(TWO) - 4 x 6	1
		SC-3 (↑)	48 x 18	DETOUR (STRAIGHT AHEAD ARROW)		
20		SC-3 (↑)	48 x 18	DETOUR (STRAIGHT AHEAD ARROW)	(ONE) - 4 x 6	19
		G26-2(101)	28 x 24	ROUTE SHIELD		
	M3-1		21 x 9	NORTH		
21	M4-10 (L↑)		48 x 18	DETOUR (LEFT)	(ONE) - 4 x 6	11
		G26-2(101)	28 x 24	ROUTE SHIELD		
	M3-1		21 x 9	NORTH		
22	M4-10(R↑)		48 x 18	DETOUR (RIGHT)	(ONE) - 4 x 6	10
		G26-2(101)	28 x 24	ROUTE SHIELD		
	M3-1		21 x 9	NORTH		
23	M4-8		21 x 9	DETOUR	(ONE) - 4 x 6	7
		G26-2(101)	28 x 24	ROUTE SHIELD		
	M3-1		21 x 9	NORTH		
	M6-2(↗)		21 x 15	DETOUR (DIAGONAL ARROW)		

72" x 30"

6" CAPS
6" & 4½"
BLACK/ORANGE

SPECIAL 1

60" x 42"



6" CAPS
6" & 4½"
BLACK/ORANGE

SPECIAL 2

MOTORIST INFORMATION DETAILS AND QUANTITIES

NO SCALE

MID-1

RY	10/11/13
REVISED BY	DATE REVISED
ROY YUAN	JERILYN STRUVEN
CALCULATED-DESIGNED BY	CHECKED BY
FUNCTIONAL SUPERVISOR	ROLAND AU-YEUNG

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
TRAFFIC

LAST REVISION 10-02-13 | DATE PLOTTED => 29-OCT-2013 | TIME PLOTTED => 15:25

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	101	R5.0/R17.7	17	24

C.H. Chern 11/19/12
REGISTERED CIVIL ENGINEER DATE

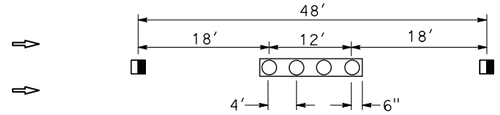
10-14-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Chuen-Hsiung Chern No. 48187 Exp. 6-30-14 CIVIL STATE OF CALIFORNIA

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

LEGEND:

- ○ TYPE A WHITE NON-REFLECTIVE MARKER
- ◨ TYPE G ONE-WAY CLEAR RETROREFLECTIVE MARKER
- ▭ 4" WHITE
- ⇨ DIRECTION OF TRAVEL



DETAIL 13M
PAVEMENT DELINEATION DETAIL

NOTES:

1. ALL EXISTING DELINEATION REMOVED SHALL BE REPLACED AT THE EXACT LOCATION OF EXISTING OR AS DIRECTED BY THE ENGINEER.
2. INSTALL 4" WHITE THERMOPLASTIC TRAFFIC STRIPE AFTER INSTALLING PAVEMENT MARKERS.

TRAFFIC STRIPES AND PAVEMENT MARKERS

PM (NB & SB)	DETAIL No.	THERMOPLASTIC TRAFFIC STRIPE		PAVEMENT MARKERS	
		4'' WHITE	4'' WHITE	NON-REFLECTIVE	RETROREFLECTIVE
			BROKEN (35-13)	TYPE A	TYPE G
		LF		EA	
R5.0/R17.7					
	13M		1600	140	70
	27B	1600			
TOTAL		1600	1600	140	70

PAVEMENT DELINATION DETAILS AND QUANTITIES

NO SCALE

PDQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN

FUNCTIONAL SUPERVISOR: NGOC TRAN
CALCULATED-DESIGNED BY: CHUEN-HSIUNG CHERN
CHECKED BY: NGOC TRAN
REVISED BY: CC
DATE REVISED: 10/11/13

LAST REVISION 10-02-13 | DATE PLOTTED => 29-OCT-2013 | TIME PLOTTED => 15:25

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	101	R5.0/R17.7	18	24

C.H. Chern 11/19/12
REGISTERED CIVIL ENGINEER DATE

10-14-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Chuen-Hsiung Chern No. 48187 Exp. 6-30-14 CIVIL STATE OF CALIFORNIA

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INDIVIDUAL SLAB REPLACEMENT (RSC)

PM	DIRECTION	LANE No.	No. OF ISOLATED SLABS	No. OF CONTIGUOUS SLABS	LANE LENGTH ISOLATED	LANE LENGTH CONTIGUOUS	THICKNESS	INDIVIDUAL SLAB REPLACEMENT(RSC)
					LF			CY
R8.4-R8.5	NB	3	2		36		0.75	12
R8.5-R8.6		3		2		36	0.75	12
R8.8-R8.9		3		2,2		72	0.75	24
R8.9-R9.0		3	2	4,3	36	126	0.75	54
R9.0-R9.1		3	2		36		0.75	12
R9.1-R9.2		3		2,3		90	0.75	30
R9.3-R9.4		3		3		54	0.75	18
R9.5-R9.6		3	2		36		0.75	12
R9.6-R9.7		3	1	2	18	36	0.75	18
R9.9-R10.0		3	1	4,4,3	18	198	0.75	72
R10.0-R10.1		3	1	4	18	72	0.75	30
R10.1-R10.2		3	1		18		0.75	6
R10.3-R10.5		3	3		54		0.75	18
R10.9-R12.0		3		2		36	0.75	12
R12.0-R12.1		3	1		18		0.75	6
R12.2-R12.4		3	3		54		0.75	18
R12.8-R13.0		3	1	4	18	72	0.75	30
R13.7-13.8		3		3		54	0.75	18
R14.0-R14.2		3	3	2	54	36	1.2	48
R14.2-R14.3		3		4,4		144	1.2	77
R14.3-R14.4		3	2	3	36	54	1.2	48
R14.4-R14.5		3	1	2	18	36	1.2	29
R14.5-R14.7		3	2	2,3	36	90	1.2	67
R14.7-R14.9		3		2,3		90	1.2	48
R15.2-R15.6		3	2	2	36	36	1.2	38
R15.7-R15.9		3	3		48		1.2	26
R16.1-R16.3		3	1		18		1.2	10
R16.6-R16.7		3	1		18		1.2	10
R16.7-R16.8		3	1		18		1.2	10
R16.8-R17.2		3	1		18		1.2	10
TOTAL (NB)								823
R17.4-R17.3	SB	3		2		36	1.2	19
R13.2-R13.0		3	2		36		0.75	12
R12.3-R12.1		3	2	2	36	36	0.75	24
R11.6-R11.5		3	2	2	36	36	0.75	24
R11.3-R11.1		3	1	5,2	18	126	0.75	48
R11.0-R10.9		3	1		18		0.75	6
R10.7-R10.6		3	1		18		0.75	6
R10.2-R10.1		3	1		18		0.75	6
R9.8-R9.7		3	1	3,2	20	90	0.75	37
R8.6-R8.4		3	4		72		0.75	24
R8.4-R8.3		3	2	5,2,2	36	162	0.75	66
R8.3-R8.2		3	2	4,2	36	108	0.75	48
R8.2-R8.1		3	1	2	18	36	0.75	18
R5.4-R5.3		3		2		36	0.75	12
TOTAL (SB)								350
GRAND TOTAL (NB+SB)								1173

ABBREVIATION:

RSC RAPID STRENTH CONCRETE

SUMMARY OF QUANTITIES

Q-1

REVISED BY	DATE REVISED
CC	10/02/13

CHUEN-HSIUNG CHERN — NGOC TRAN

CALCULATED-DESIGNED BY — CHECKED BY

FUNCTIONAL SUPERVISOR — NGOC TRAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DESIGN

LAST REVISION 10-02-13 | DATE PLOTTED => 29-OCT-2013 | TIME PLOTTED => 15:25

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCl	101	R5.0/R17.7	19	24

REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER William K. Farnbach No. C49042 Exp. 9-30-14 CIVIL STATE OF CALIFORNIA

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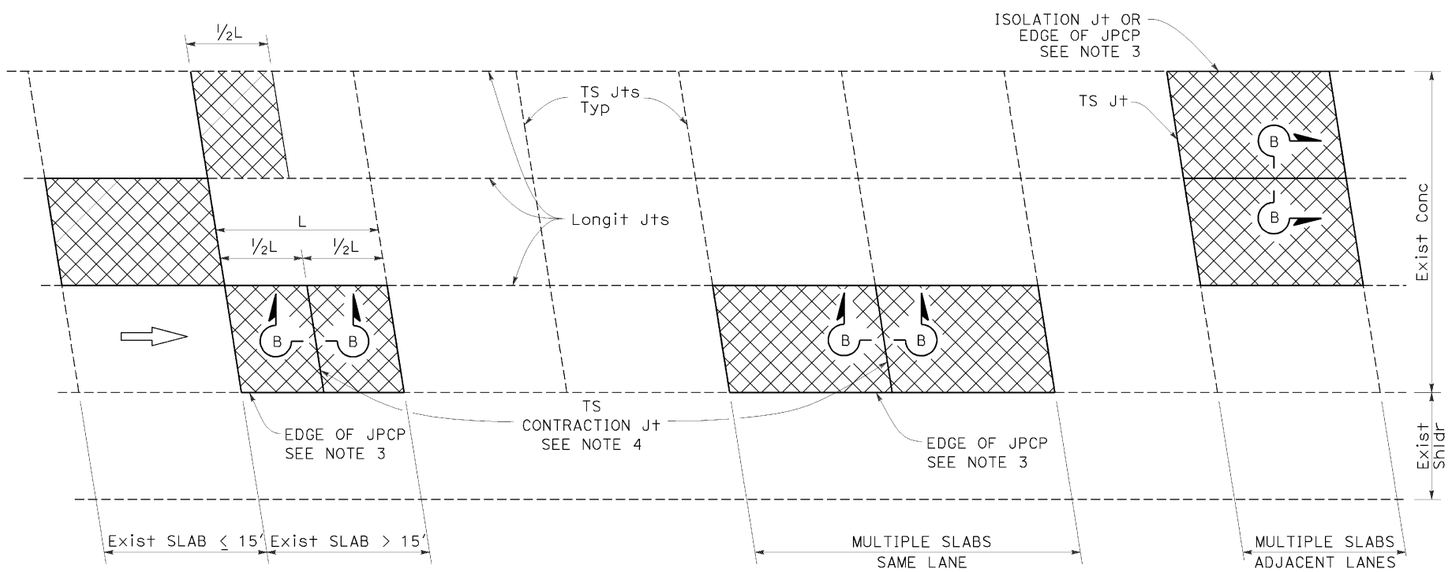
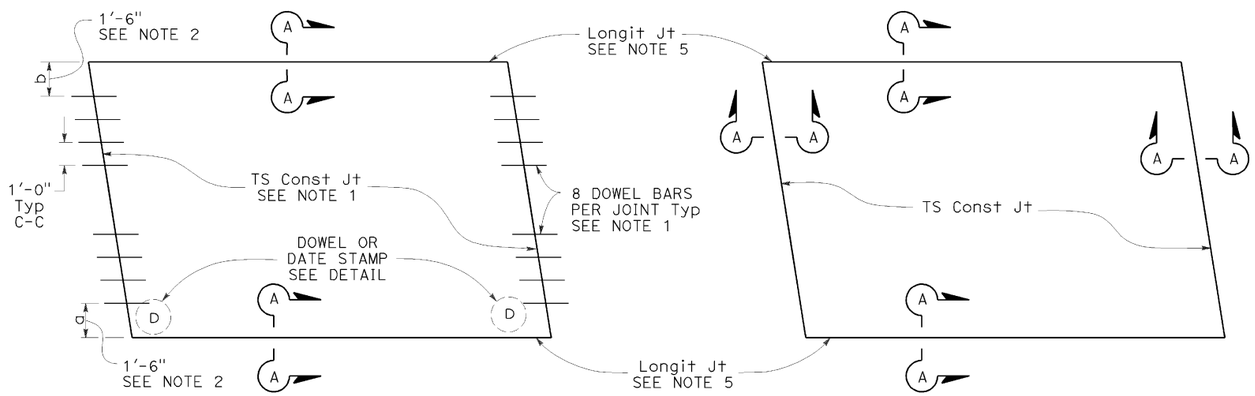
TO ACCOMPANY PLANS DATED 10-14-13



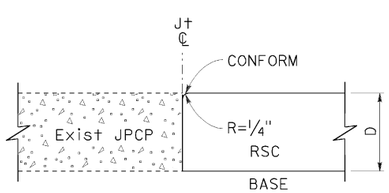
PLAN



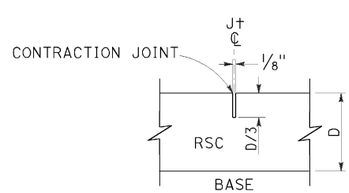
TYPE I
See Design Note 1

TYPE II
See Design Note 2

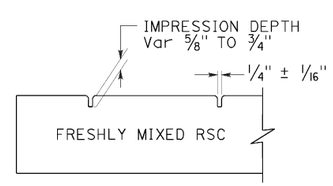
SLAB LAYOUT



SECTION A-A



SECTION B-B



SECTION C-C

LEGEND:

RSC RAPID STRENGTH CONCRETE

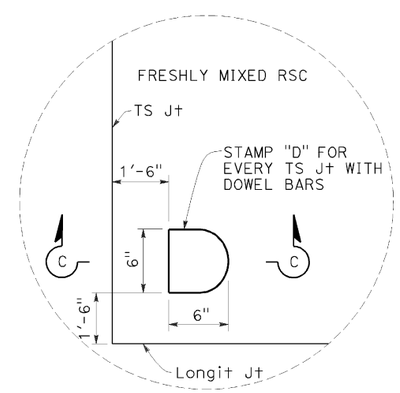
INDIVIDUAL SLAB REPLACEMENT WITH RSC

NOTES:

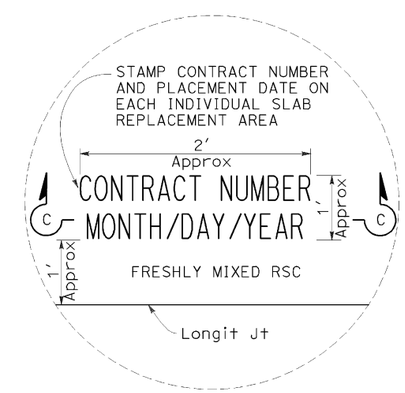
1. For details not shown, see Revised Standard Plan RSP P10.
2. Where the existing outside shoulder is asphalt concrete pavement, "a" = 1'-0" and "b" = 2'-0".
3. Use side forms where edge of RSC pavement is adjacent to asphalt concrete.
4. Transverse contraction joint to match skew of existing joint. Omit dowel bars.
5. Do not place tie bars at longitudinal joints.

DESIGN NOTES:

1. For concrete slab repair with at least 5 years design life.
2. For short term repairs < 5 yrs design life or for slab replacements with cracking and seating.



DOWEL STAMP DETAIL



DATE STAMP DETAIL

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

INDIVIDUAL SLAB REPLACEMENT WITH RAPID STRENGTH CONCRETE

NO SCALE

RSP P8 DATED JULY 19, 2013 SUPERSEDES RSP P8 DATED APRIL 20, 2012 AND STANDARD PLAN P8 DATED MAY 20, 2011 - PAGE 130 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP P8

2010 REVISED STANDARD PLAN RSP P8

5-31-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	101	R5.0/R17.7	20	24

REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Gurinderpal Bhullar
No. C48815
Exp. 9-30-14
CIVIL
STATE OF CALIFORNIA

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TO ACCOMPANY PLANS DATED 10-14-13

2010 REVISED STANDARD PLAN RSP T9

TABLE 1

TAPER LENGTH CRITERIA AND CHANNELIZING DEVICE SPACING

SPEED (S)	MINIMUM TAPER LENGTH * FOR WIDTH OF OFFSET 12 FEET (W)				MAXIMUM CHANNELIZING DEVICE SPACING		
					X	Y	Z **
	TANGENT 2L	MERGING L	SHIFTING L/2	SHOULDER L/3	TAPER	TANGENT	CONFLICT
mph	ft	ft	ft	ft	ft	ft	ft
20	160	80	40	27	20	40	10
25	250	125	63	42	25	50	12
30	360	180	90	60	30	60	15
35	490	245	123	82	35	70	17
40	640	320	160	107	40	80	20
45	1080	540	270	180	45	90	22
50	1200	600	300	200	50	100	25
55	1320	660	330	220	55	110	27
60	1440	720	360	240	60	120	30
65	1560	780	390	260	65	130	32
70	1680	840	420	280	70	140	35

* - For other offsets, use the following merging taper length formula for L:
For speed of 40 mph or less, $L = WS^2/60$
For speed of 45 mph or more, $L = WS$

Where: L = Taper length in feet
W = Width of offset in feet
S = Posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

** - Use for taper and tangent sections where there are no pavement markings or where there is a conflict between existing pavement markings and channelizers (CA).

TABLE 2

LONGITUDINAL BUFFER SPACE AND FLAGGER STATION SPACING

SPEED *	Min D **	DOWNGRADE Min D ***		
		-3%	-6%	-9%
mph	ft	ft	ft	ft
20	115	116	120	126
25	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
55	495	520	553	593
60	570	598	638	686
65	645	682	728	785
70	730	771	825	891

* - Speed is posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

** - Longitudinal buffer space or flagger station spacing

*** - Use on sustained downgrade steeper than -3 percent and longer than 1 mile.

TABLE 3

ADVANCE WARNING SIGN SPACING

ROAD TYPE	DISTANCE BETWEEN SIGNS *		
	A	B	C
	ft	ft	ft
URBAN - 25 mph OR LESS	100	100	100
URBAN - MORE THAN 25 mph TO 40 mph	250	250	250
URBAN - MORE THAN 40 mph	350	350	350
RURAL	500	500	500
EXPRESSWAY / FREEWAY	1000	1500	2640

* - The distances are approximate, are intended for guidance purposes only, and should be applied with engineering judgment. These distances should be adjusted by the Engineer for field conditions, if necessary, by increasing or decreasing the recommmended distances.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM TABLES FOR LANE AND RAMP CLOSURES

NO SCALE

RSP T9 DATED JULY 19, 2013 SUPERSEDES RSP T9 DATED APRIL 19, 2013 THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T9

4-30-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	101	R5.0/R17.7	21	24

REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Gurinderpal Bhullar No. C48815 Exp. 9-30-14 CIVIL STATE OF CALIFORNIA

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TO ACCOMPANY PLANS DATED 10-14-13

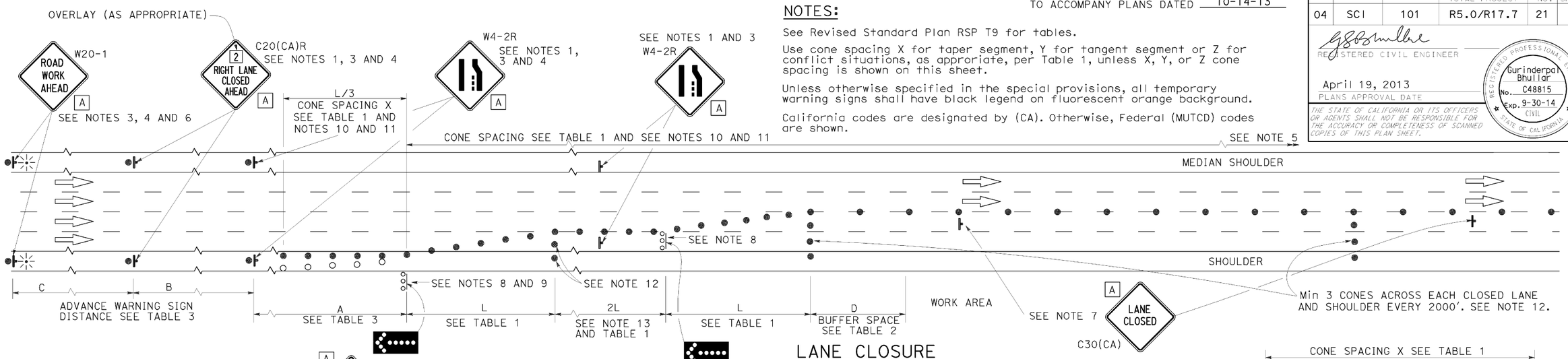
NOTES:

See Revised Standard Plan RSP T9 for tables.

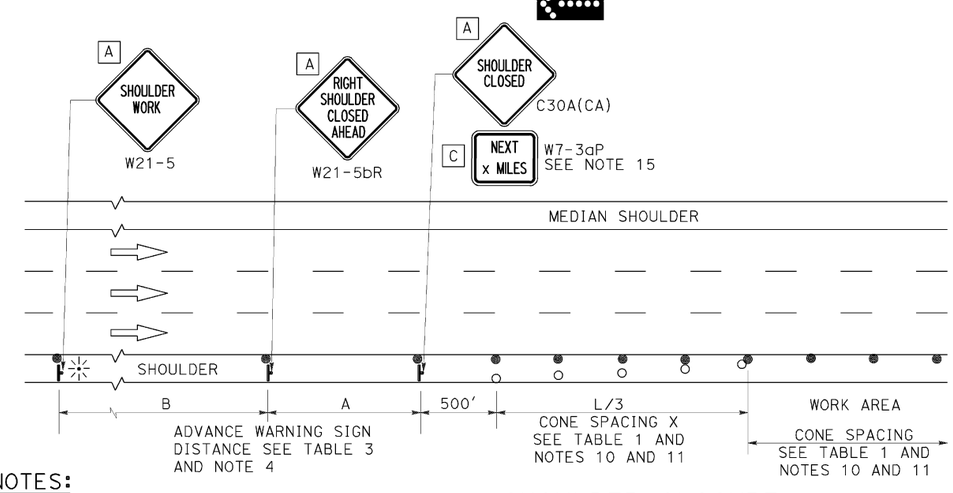
Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as approriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

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

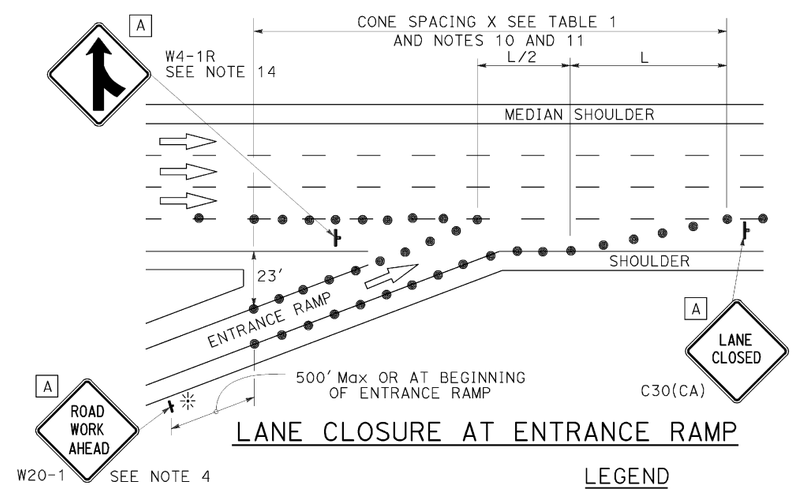
California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.



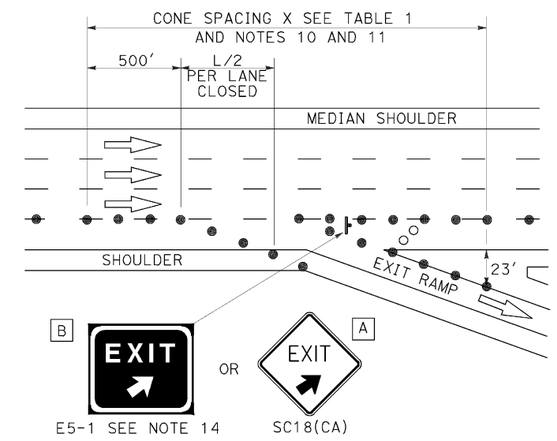
LANE CLOSURE



SHOULDER CLOSURE



LANE CLOSURE AT ENTRANCE RAMP



LANE CLOSURE AT EXIT RAMP

NOTES:

1. Median lane closures shall conform to the details as shown except that C20(CA)L and W4-2L signs shall be used.
2. At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
3. Duplicate sign installations are not required:
   a) On opposite shoulder if at least one-half of the available lanes remain open to traffic.
   b) In the median if the width of the median shoulder is less than 8' and the outside lanes are to be closed.
4. 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.
5. A G20-2 "END ROAD WORK" sign, with minimum size of 48" x 24" 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.
6. If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a C20(CA) sign for the first advance warning sign.
7. Place a C30(CA) sign every 2000' throughout length of lane closure.
8. One flashing arrow sign for each lane closed. The flashing arrow signs shall be Type I.
9. 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.
10. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
11. Portable delineators, placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.
12. 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.
13. Unless otherwise specified in the special provisions, the 2L tangent shown along lane lines shall be used between the L tapers required for each closed traffic lane.
14. Unless otherwise specified in the special provisions, the E5-1 or SC18(CA) and W4-1 signs shall be used as shown.
15. A W7-3aP "NEXT ___ MILES" plaque must be used if theshoulder closure extends beyond the distance that can be perceived by road users.

LEGEND

- TRAFFIC CONE
- TRAFFIC CONE (OPTIONAL TAPER)
- TEMPORARY TRAFFIC CONTROL SIGN
- FLASHING ARROW SIGN (FAS)
- FAS SUPPORT OR TRAILER
- PORTABLE FLASHING BEACON

SIGN PANEL SIZE (Min)

A	48" x 48"
B	72" x 60"
C	36" x 30"

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON FREEWAYS AND EXPRESSWAYS

NO SCALE

RSP T10 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T10 DATED MAY 20, 2011 - PAGE 237 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T10

2010 REVISED STANDARD PLAN RSP T10

12-18-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCl	101	R5.0/R17.7	22	24

REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Gurinderpal Bhullar No. C48815 Exp. 9-30-14 CIVIL STATE OF CALIFORNIA

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

TO ACCOMPANY PLANS DATED 10-14-13

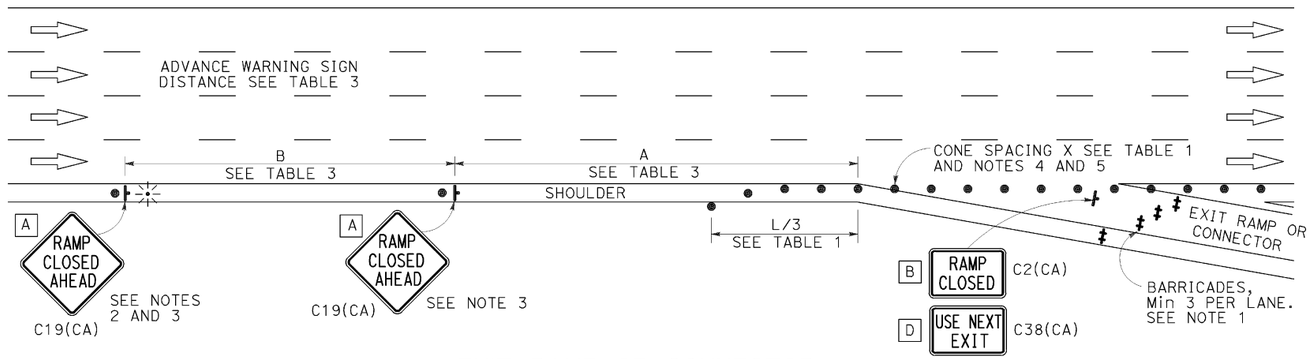
TYPICAL RAMP CLOSURES

SIGN PANEL SIZE (Min)

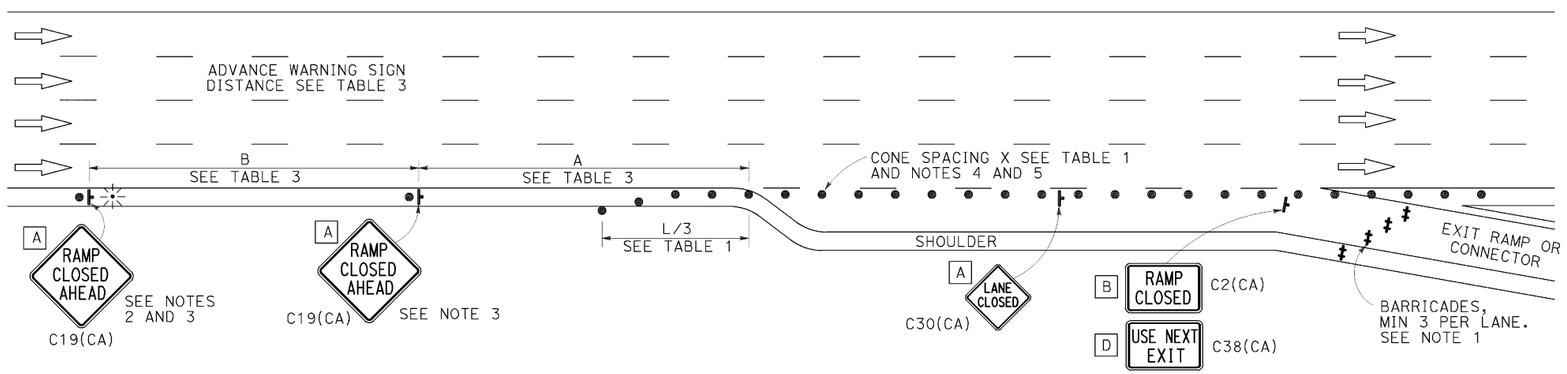
- A 48" x 48"
- B 48" x 30"
- C 36" x 36"
- D 48" x 36"

LEGEND

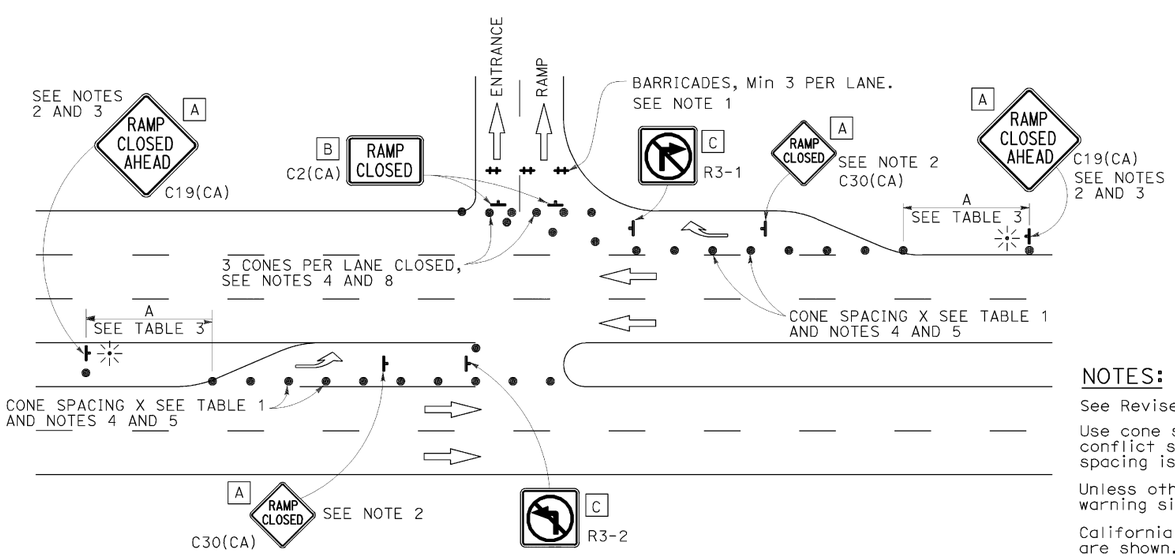
- TRAFFIC CONE
- TEMPORARY TRAFFIC CONTROL SIGN
- BARRICADES
- PORTABLE FLASHING BEACON



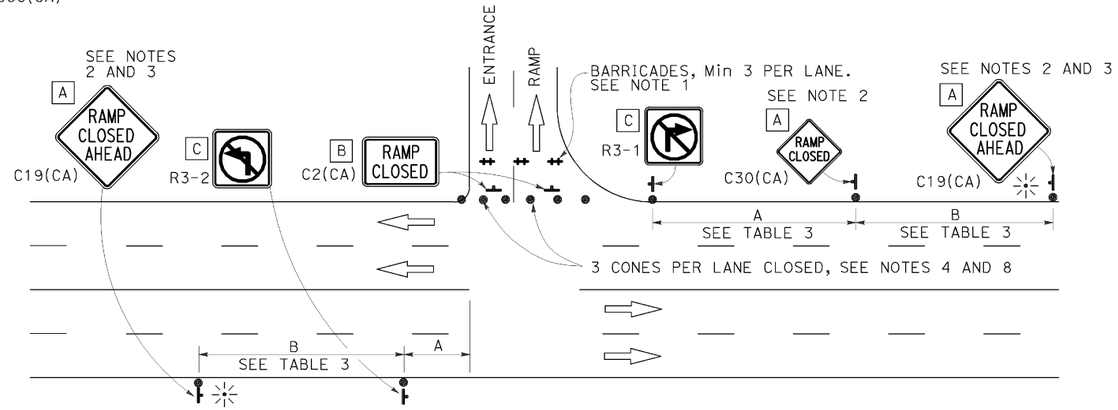
EXIT RAMP OR CONNECTOR



EXIT RAMP OR CONNECTOR WITH ADDITIONAL LANE



ENTRANCE RAMP WITH TURNING POCKETS



ENTRANCE RAMP WITHOUT TURNING POCKETS

NOTES:

1. 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.
2. 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.
3. 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. A flashing beacon shall be placed on top of the first C19(CA) sign during hours of darkness.
4. All cones used for ramp closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
5. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime ramp closures only.
6. At least one person shall be assigned to provide full time maintenance of traffic control devices, unless otherwise directed by the Engineer.
7. The existing "EXIT" signs shall be covered during ramp closures.
8. A minimum of 3 cones shall be placed transversely across each closed lane and shoulder.

NOTES:

See Revised Standard Plan RSP T9 for tables.

Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as approriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

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

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURE

NO SCALE

RSP T14 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T14 DATED MAY 20, 2011 - PAGE 242 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T14

2010 REVISED STANDARD PLAN RSP T14

12-18-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	101	R5.0/R17.7	23	24

REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Gurinderpal Bhullar No. C48815 Exp. 9-30-14 CIVIL STATE OF CALIFORNIA

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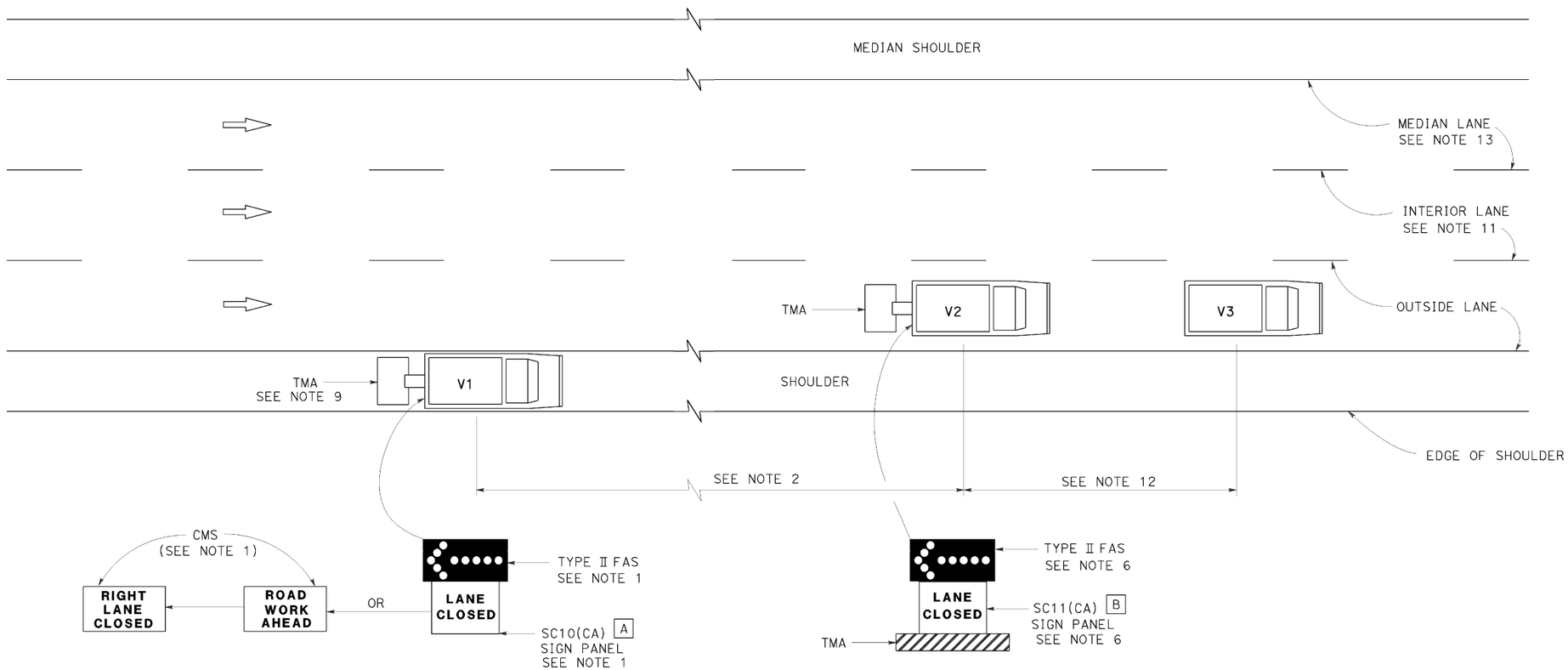
TO ACCOMPANY PLANS DATED 10-14-13



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

SIGN PANEL SIZE (Min)

A 66" × 36"

B 54" × 42"

LEGEND

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

NOTES:

1. 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. The changeable message sign shall be sequenced to show the "ROAD WORK AHEAD" message first, followed by the "RIGHT LANE CLOSED" message. For median lane closure, the flashing arrow symbol shall be reversed with the arrowhead on the right and the changeable message sign shall show "LEFT LANE CLOSED".
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 have Type III or above retroreflective sheeting, black on white, or black on fluorescent orange, with 6" minimum series D letters per Caltrans sign specifications.
6. Shadow vehicle V2 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.
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. If sign vehicle V1 encroaches into the traffic lane due to insufficient shoulder width, sign vehicle V1 shall be equipped with a truck-mounted attenuator. Sign vehicle V1 shall stay as close to the edge of shoulder as practicable.
10. Where workers would be on foot in the work area, a stationary type lane closure (Revised Standard Plan T10, T11, etc., as applicable) shall be used instead of this plan.
11. For moving lane closure on interior lane of multilane highways, use Revised Standard Plan T16.
12. The spacing between work vehicle(s) and the shadow vehicles, and between each shadow vehicle should be minimized to deter road users from driving in between.
13. When the work/application vehicle V3 occupies the median lane, sign vehicle V1 should drive in the median shoulder and indicate left lane closed ahead.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR MOVING LANE CLOSURE ON MULTILANE HIGHWAYS

NO SCALE

RSP T15 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T15
DATED MAY 20, 2011 - PAGE 243 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T15

2010 REVISED STANDARD PLAN RSP T15

12-18-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCl	101	R5.0/R17.7	24	24

REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Gurinderpal Bhullar No. C48815 Exp. 9-30-14 CIVIL STATE OF CALIFORNIA

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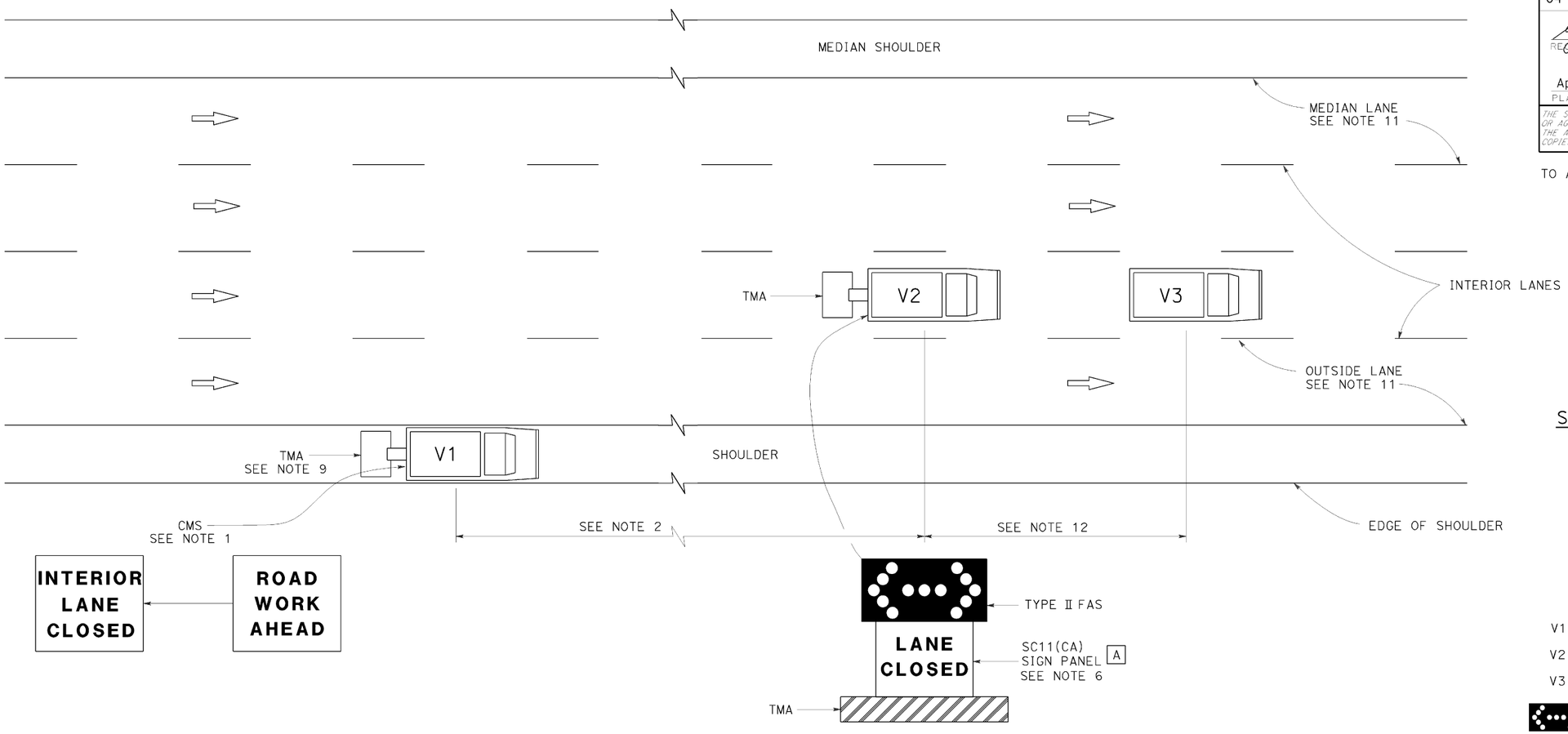
TO ACCOMPANY PLANS DATED 10-14-13

2010 REVISED STANDARD PLAN RSP T16



MOVING LANE CLOSURE ON INTERIOR LANE OF MULTILANE HIGHWAYS

SIGN PANEL SIZE (Min)

A 54" x 42"

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

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 have Type III or above retroreflective sheeting, black on white, or black on fluorescent orange, with 6" minimum series D letters per Caltrans sign specifications.
6. Shadow vehicle V2 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. If sign vehicle V1 encroaches into the traffic lane due to insufficient shoulder width, sign vehicle V1 shall be equipped with a truck-mounted attenuator. Sign vehicle V1 shall stay as close to the edge of shoulder as practicable.
10. Where workers would be on foot in the work area, a stationary type lane closure (Revised Standard Plan T10, T11 etc., as applicable) shall be used instead of this plan.
11. For moving lane closure on median lane or outside lane of multilane highways, use Revised Standard Plan T15.
12. The spacing between work vehicle(s) and the shadow vehicles, and between each shadow vehicle should be minimized to deter road users from driving in between.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR MOVING LANE CLOSURE ON MULTILANE HIGHWAYS

NO SCALE

RSP T16 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T16
DATED MAY 20, 2011 - PAGE 244 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T16

12-18-12