

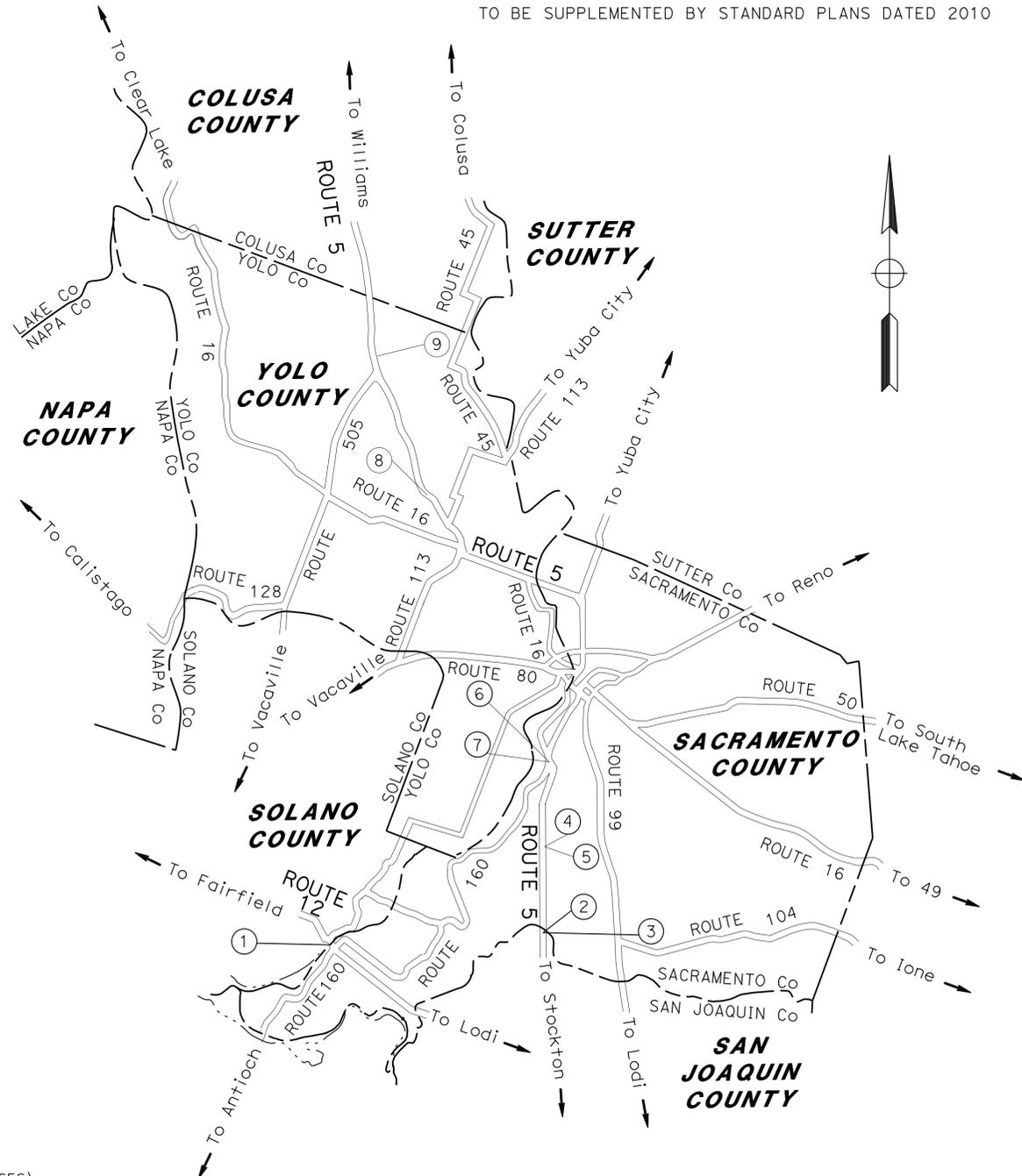
INDEX OF PLANS

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1	TITLE AND LOCATION MAP
2-4	CONSTRUCTION DETAILS
5-8	CONSTRUCTION AREA SIGNS
9	MOTORIST INFORMATION PLAN
10	PAVEMENT DELINEATION QUANTITIES
11	SUMMARY OF QUANTITIES
12-22	REVISED STANDARD PLANS
STRUCTURE PLANS	
23-35	ROUTE 5 AND 12 BRIDGES

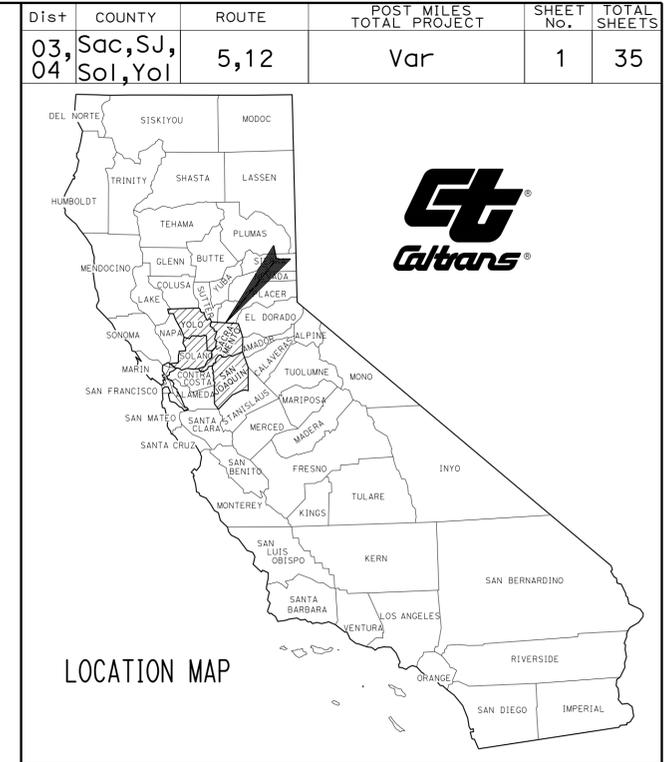
THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY**
**IN SACRAMENTO, SAN JOAQUIN,
SOLANO AND YOLO COUNTIES
AT VARIOUS LOCATIONS**

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010



NO SCALE



LOCATIONS OF CONSTRUCTION

Loc	COUNTY	ROUTE	PM	BRIDGE No.	STRUCTURE NAME
1	Sol	12	26.24	23-0024	SACRAMENTO RIVER (RIO VISTA)
2	SJ	5	49.78	29-0197L	MOKELUMNE RIVER
3	SJ	5	49.78	29-0197R	MOKELUMNE RIVER
4	Sac	5	8.11	24-0327L	STONE LAKE CREEK
5	Sac	5	8.11	24-0327R	STONE LAKE CREEK
6	Sac	5	15.58	24-0296L	FREEPORT BOULEVARD OH
7	Sac	5	15.58	24-0296R	FREEPORT BOULEVARD OH
8	Yol	5	R9.41	22-0150	COUNTY ROAD 99S OC
9	Yol	5	R23.79	22-0030	COUNTY ROAD 8 OC

PROJECT MANAGER
RONALD S. SYKES

DESIGN ENGINEER
RONALD S. SYKES

D.S. Lamb 2-19-14
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER



February 24, 2014
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.	03-4M7004
PROJECT ID	0313000026

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: RONALD S. SYKES

DESIGNED BY: ROBERT M. FLOYD II

CHECKED BY: DAVID S. LAMB

REVISOR: [REVISIONS]

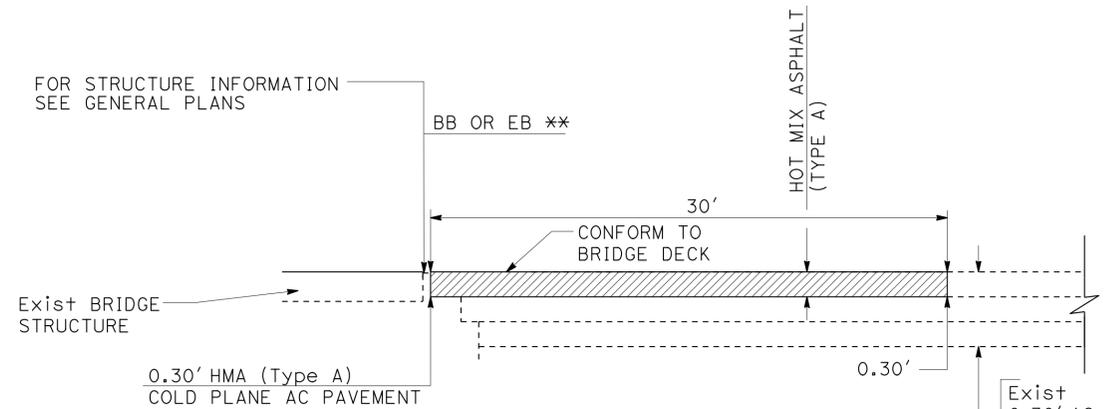
DATE: [REVISIONS]

LEGEND:

- COLD PLANE AC PAVEMENT
- GRIND EXISTING CONCRETE PAVEMENT

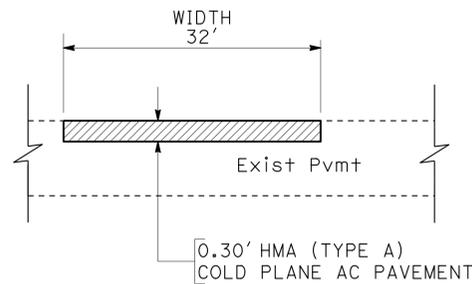
ABBREVIATIONS

- GPI GEOSYNTHETIC PAVEMENT INTERLAYER (PAVING MAT)
- LTS LIME TREATED SUB-BASE
- RHMA-O RUBBERIZED HOT MIX ASPHALT (OPEN GRADED)



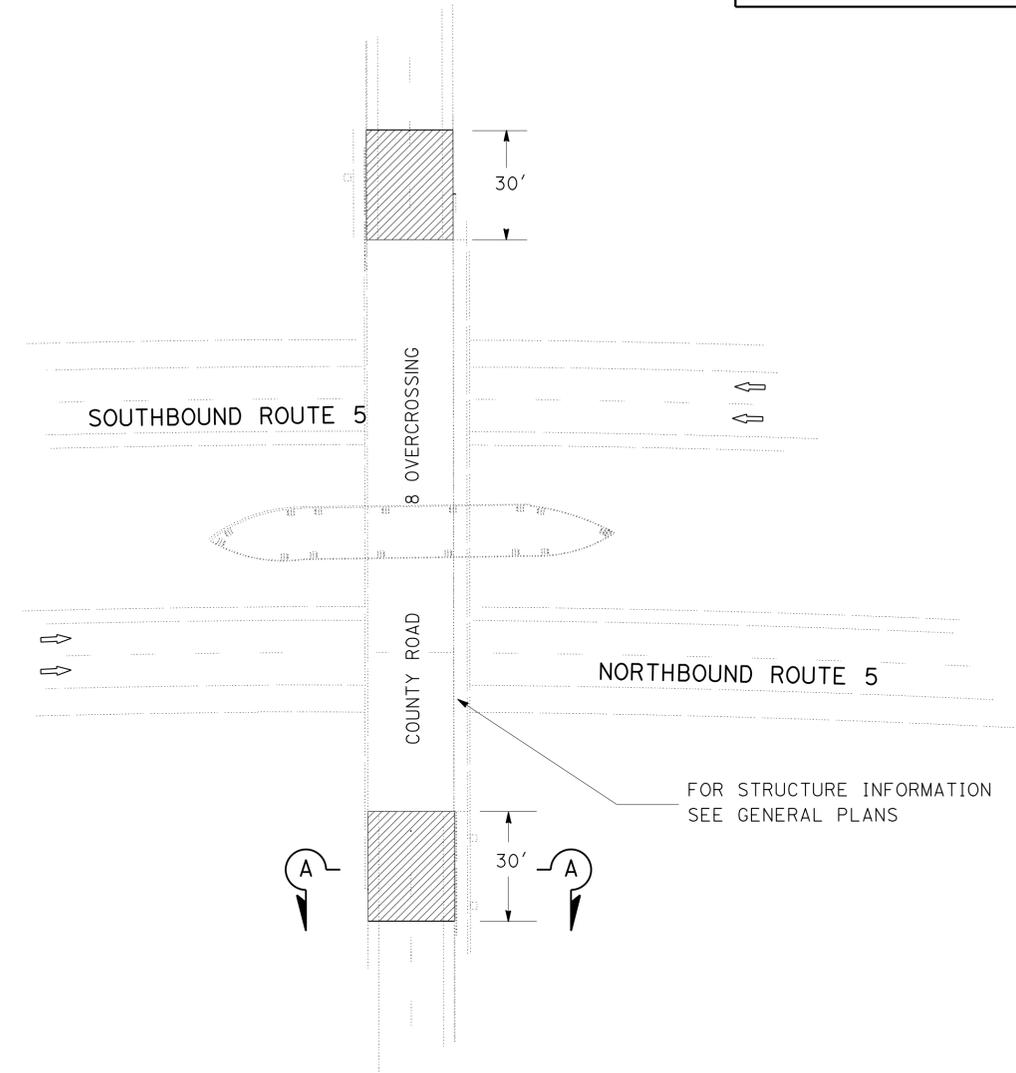
**PROFILE
LOCATION 9**

**BEGIN AND END OF BRIDGE OR END OF APPROACH AND DEPARTURE SLABS



SECTION A-A

LOCATION 9



**PLAN VIEW
ROUTE 5
COUNTY ROAD 8 OC
LOCATION 9
YoI-5**

CONSTRUCTION DETAILS

NO SCALE

C-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03, 04	Sac, Sol, Yolo	5, 12	Var	2	35

REGISTERED CIVIL ENGINEER: *David S. Lamb* 2-19-14

PLANS APPROVAL DATE: 2-24-14

DAVID S. LAMB
No. C53386
Exp. 6-30-15
CIVIL
STATE OF CALIFORNIA

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03, 04	Sac, Sol, Yolo	5, 12	Var	3	35

<i>D.S. Lamb</i>		2-19-14
REGISTERED CIVIL ENGINEER	DATE	
2-24-14		
PLANS APPROVAL DATE		

REGISTERED PROFESSIONAL ENGINEER
DAVID S. LAMB
No. C53386
Exp. 6-30-15
CIVIL
STATE OF CALIFORNIA

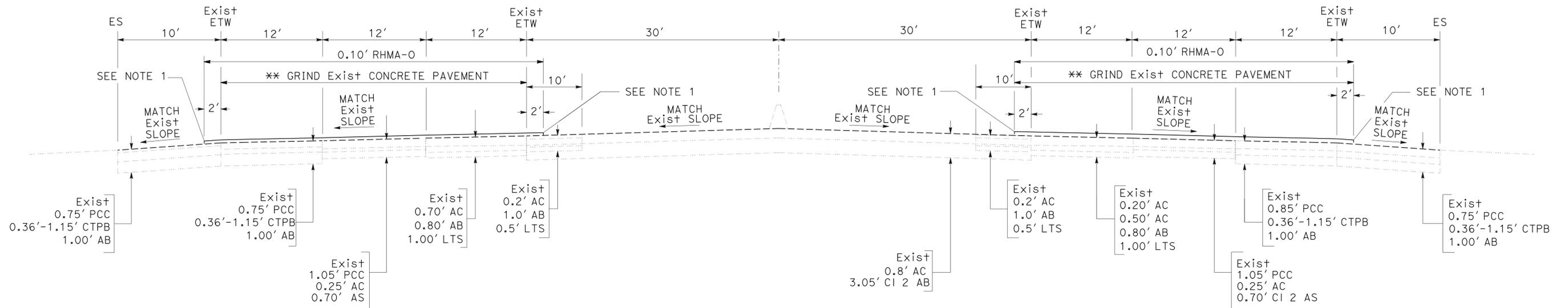
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

- 1. FOR RHMA-O CONFORM SEE DETAIL A ON CONSTRUCTION DETAIL SHEET 4.
- ** FOR GRIND EXISTING CONCRETE PAVEMENT, SEE CONFORM DETAIL THIS SHEET FOR LONGITUDINAL LIMITS.

LEGEND:

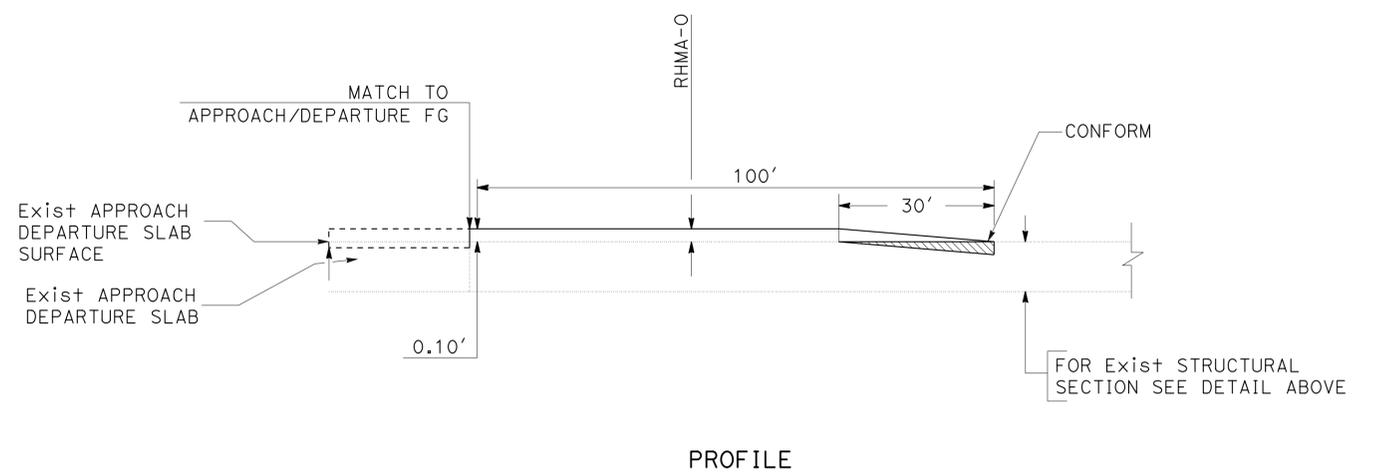
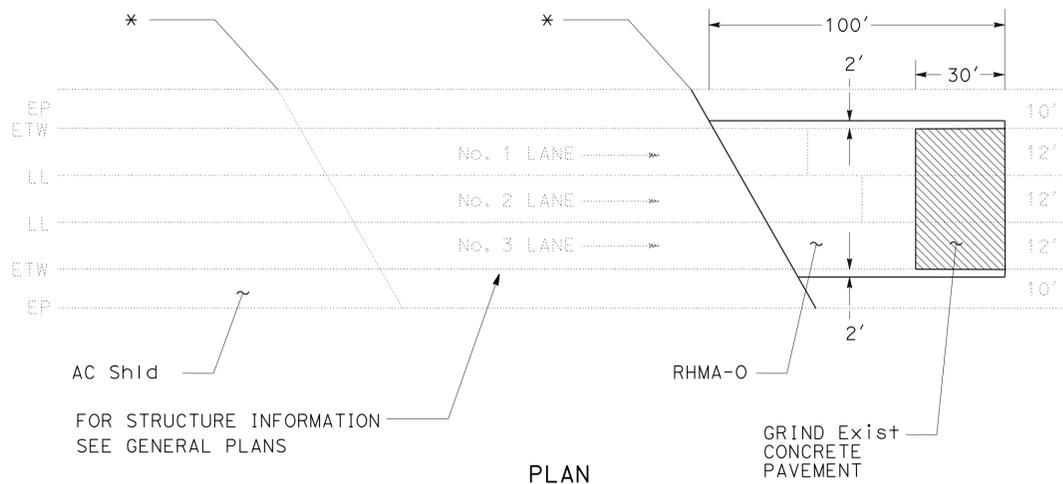
- COLD PLANE AC PAVEMENT
- GRIND EXISTING CONCRETE PAVEMENT



ROUTE 5
 LOCATIONS 6 AND 7
 Sac-5-PM 15.6/15.7
 SOUTH SIDE OF FREEPORT Blvd OH

SOUTHBOUND

NORTHBOUND



GRIND Exist CONCRETE PAVEMENT CONFORM

* BEGIN OR END OF APPROACH/DEPARTURE SLABS

PROFILE

LOCATIONS 6, AND 7
 ** BEGIN AND END OF SOUTH SIDE APPROACH AND DEPARTURE SLABS

CONSTRUCTION DETAILS

NO SCALE

C-2

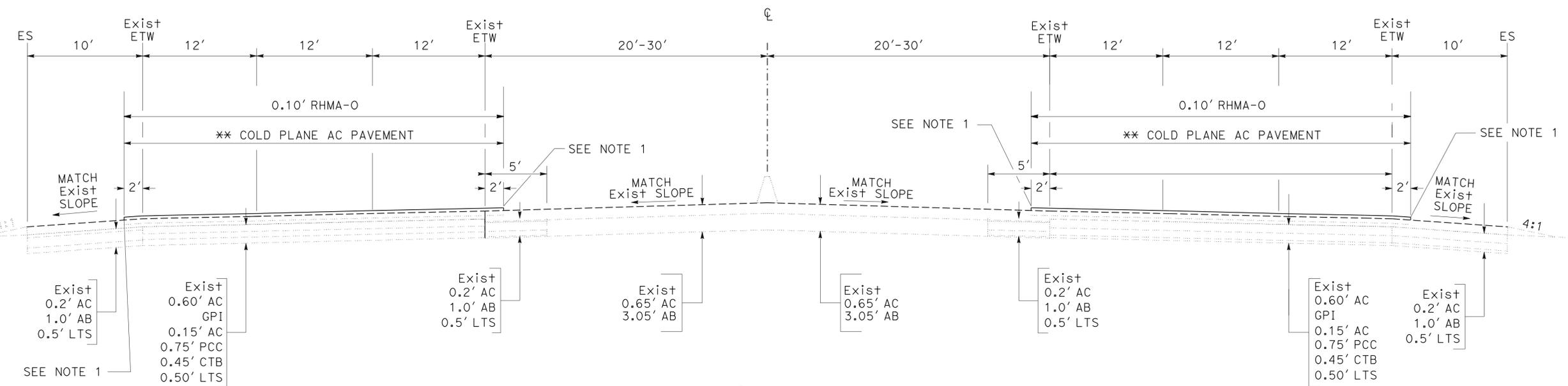
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03, 04	Sac, Sol, Yolo	5, 12	Var	4	35
		2-19-14		REGISTERED CIVIL ENGINEER DATE	
		2-24-14		PLANS APPROVAL DATE	
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					

NOTES:

- 1. FOR RHMA-O CONFORM SEE DETAIL A ON CONSTRUCTION DETAIL SHEET 4.
- ** GRIND EXISTING CONCRETE PAVEMENT CONFORM DETAIL FOR LONGITUDINAL LIMITS.

LEGEND:

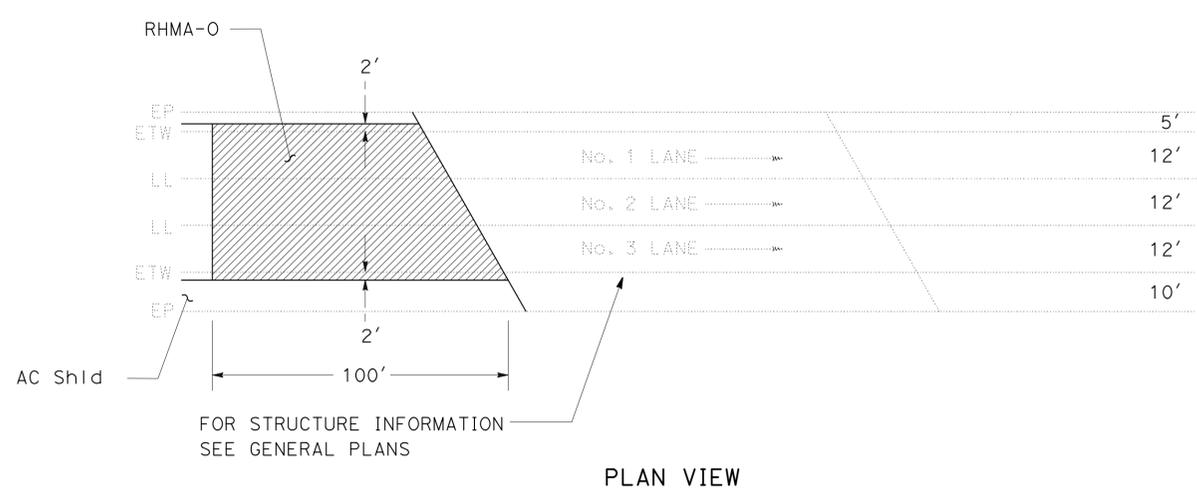
- COLD PLANE AC PAVEMENT
- GRIND EXISTING CONCRETE PAVEMENT



SOUTHBOUND

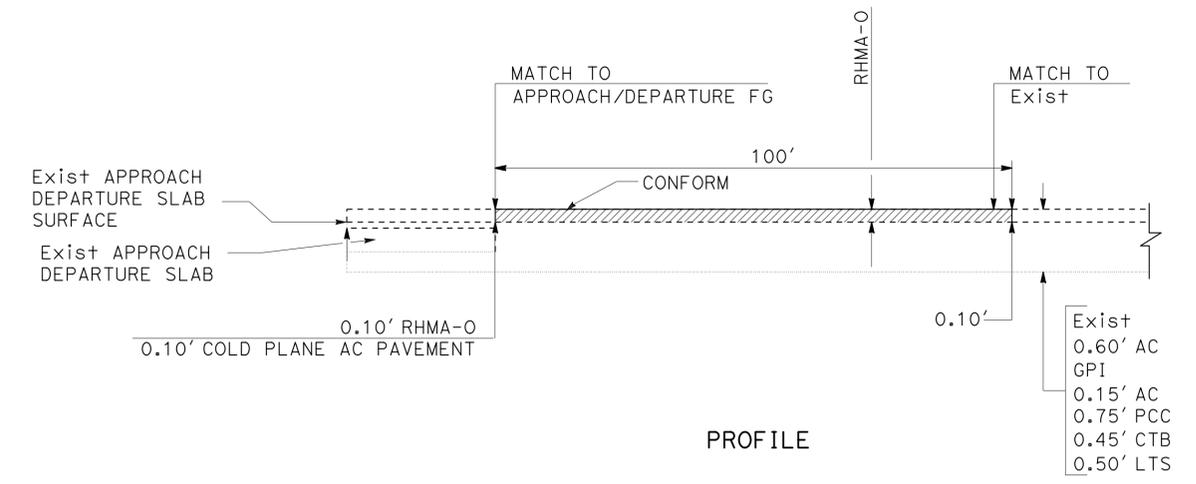
ROUTE 5
 LOCATIONS 6 AND 7
 Sac-5-PM 15.7/15.8
 NORTH SIDE OF FREEPORT Blvd OH

NORTHBOUND



COLD PLANE AC PAVEMENT CONFORM

NOTE: COLD PLANE OF APPROACH AND DEPARTURE IS 2' OUTSIDE OF EACH ETW.



PROFILE

LOCATIONS 6, AND 7

** BEGIN AND END OF NORTH SIDE APPROACH AND DEPARTURE SLABS

CONSTRUCTION DETAILS

NO SCALE

C-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MAINTENANCE DESIGN
 FUNCTIONAL SUPERVISOR: RONALD S. SYKES
 CALCULATED/DESIGNED BY: [Blank]
 CHECKED BY: [Blank]
 ROBERT M. FLOYD II
 REVISIONS BY: DAVID S. LAMB
 DATE REVISION: [Blank]



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03, 04	Sac, Sol, Yolo	5, 12	Var	5	35

D.S. Lamb 2-19-14
 REGISTERED CIVIL ENGINEER DATE

2-24-14
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DAVID S. LAMB
 No. C53386
 Exp. 6-30-15
 CIVIL
 STATE OF CALIFORNIA

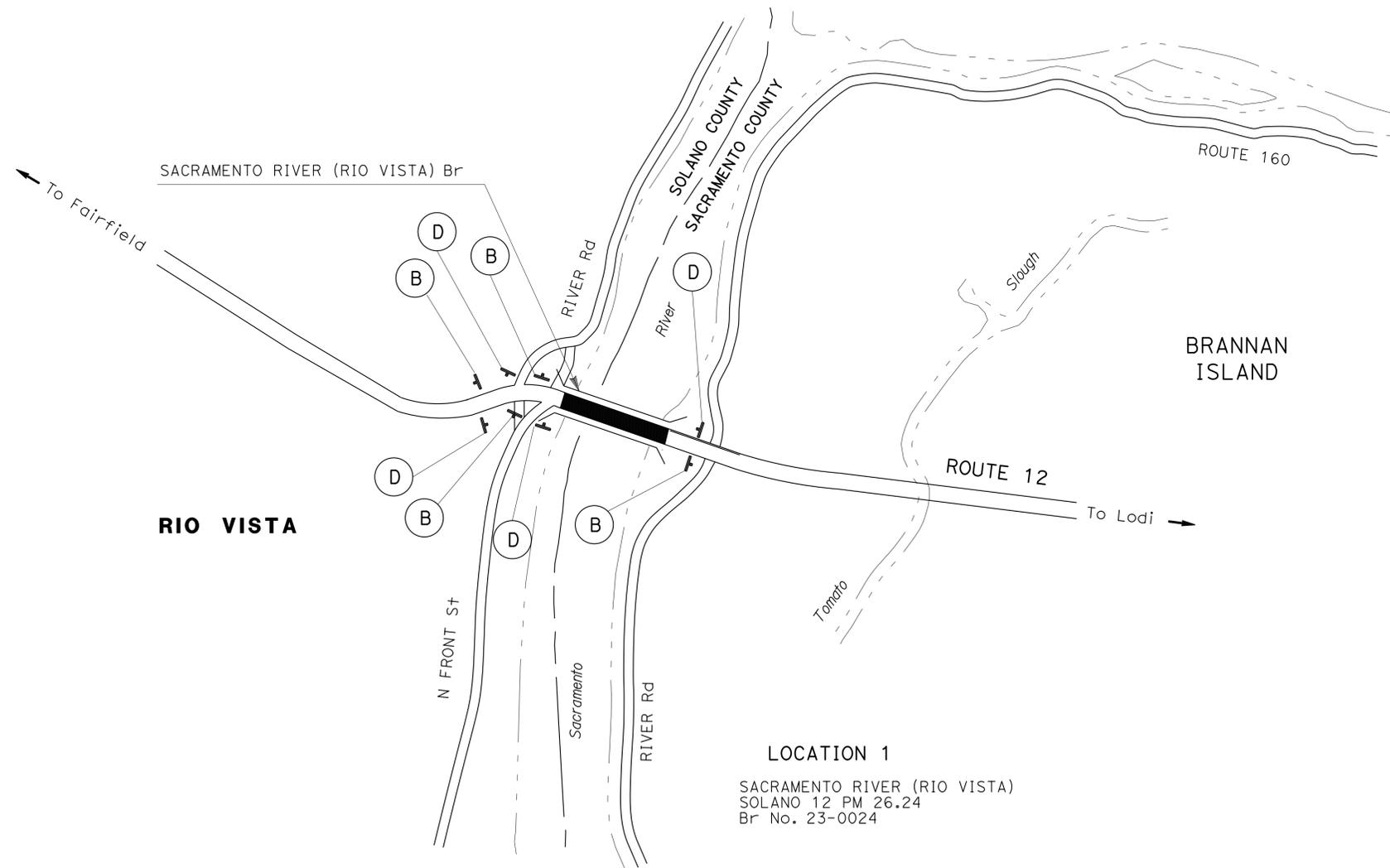
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

- 1.EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER
- 2.SEE SHEET M-1 FOR ADDITIONAL STATIONARY MOUNTED CAS

STATIONARY MOUNTED CONSTRUCTION AREA SIGN

SIGN LETTER	SIGN CODE		PANEL SIZE	SIGN MESSAGE	NUMBER OF POST AND SIZE	NUMBER OF SIGNS
	FEDERAL	CALIFORNIA				
(A)	W20-1	C23	60" x 60"	ROAD WORK AHEAD	2 - 4" x 6"	10
(B)	G20-2	C14	36" x 18"	END ROAD WORK	1 - 4" x 4"	8
(C)		C14	48" x 24"	END ROAD WORK	1 - 4" x 6"	6
(D)	W20-1	C23	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	10



LOCATION 1
 SACRAMENTO RIVER (RIO VISTA)
 SOLANO 12 PM 26.24
 Br No. 23-0024

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 MAINTENANCE DESIGN
 FUNCTIONAL SUPERVISOR
 RONALD S. SYKES
 CALCULATED/DESIGNED BY
 CHECKED BY
 ROBERT M. FLOYD II
 DAVID S. LAMB
 REVISED BY
 DATE REVISED

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CONSTRUCTION AREA SIGNS
 NO SCALE
CS-1

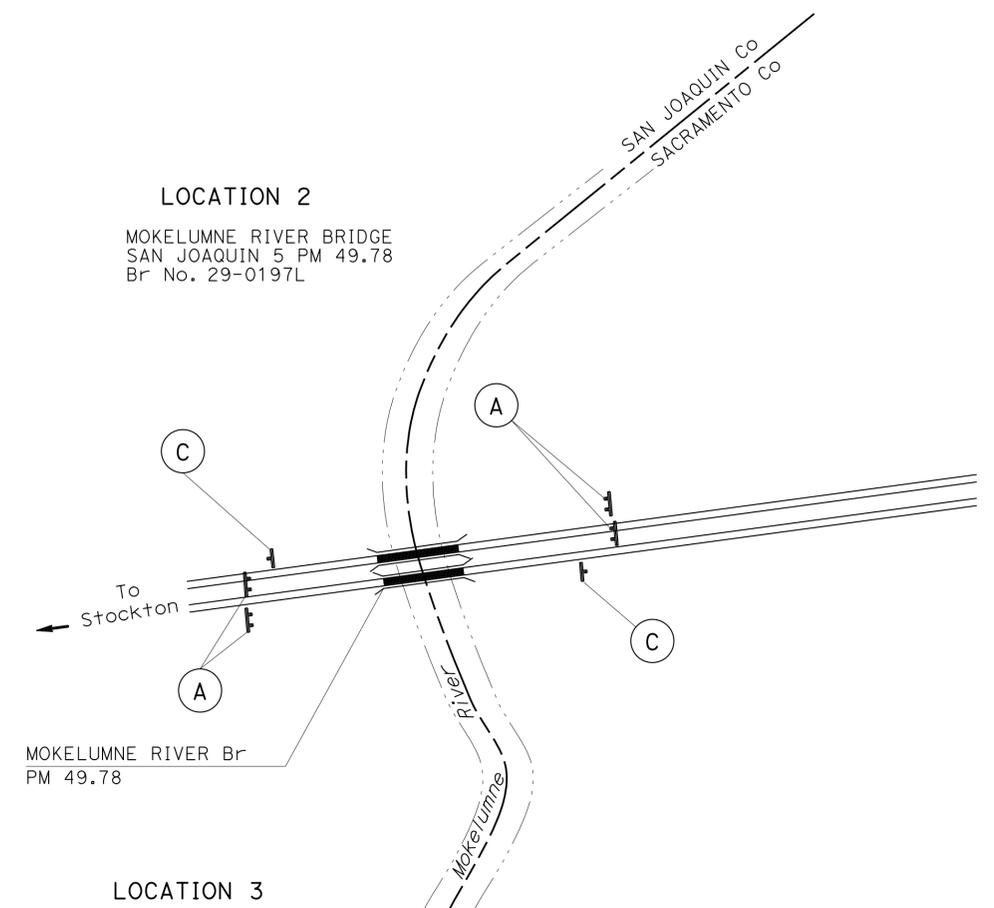
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR
 RONALD S. SYKES

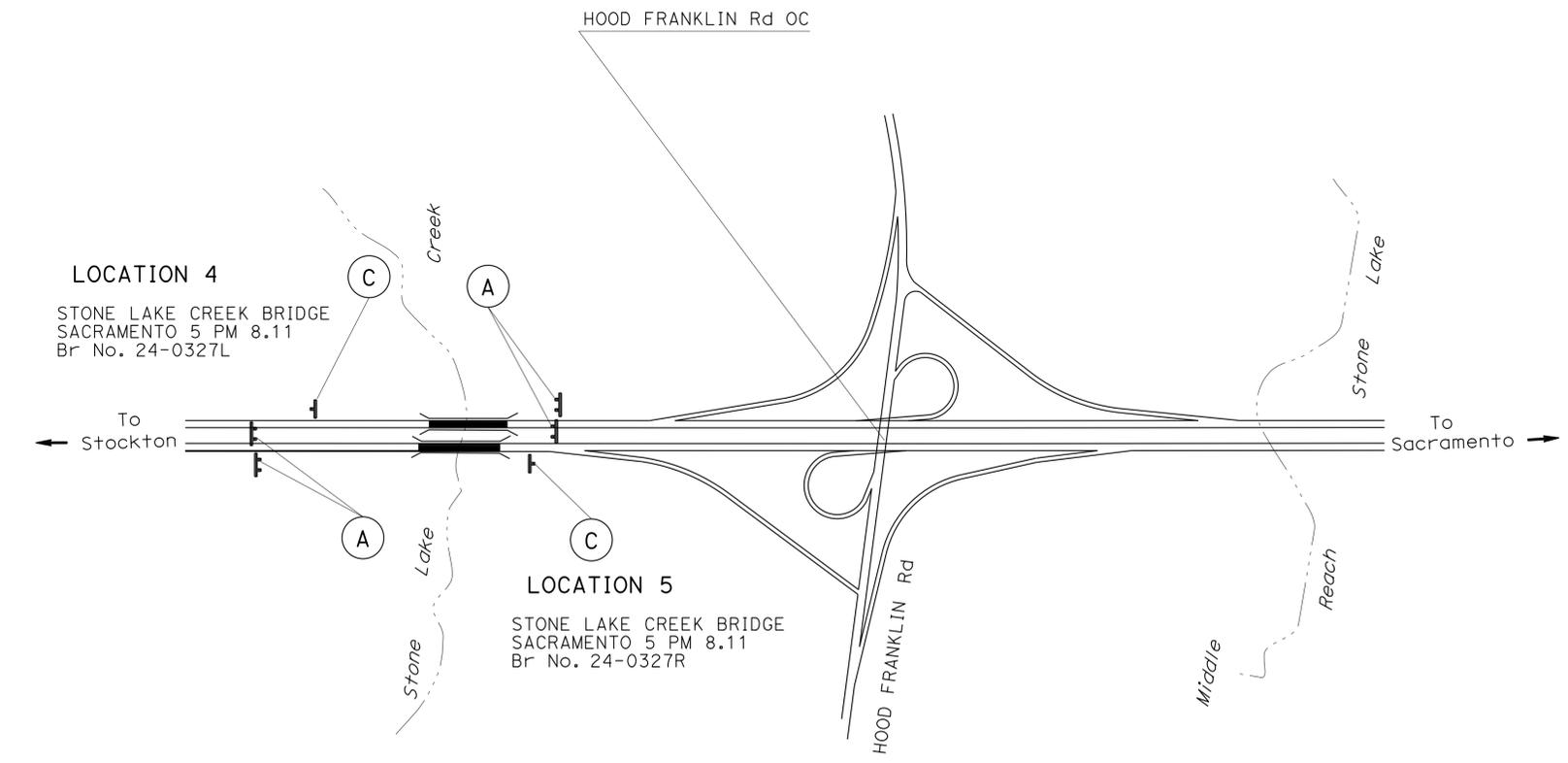
DESIGNED BY
 CHECKED BY

REVISOR
 DATE

REVISIONS



LOCATION 3
 MOKELUMNE RIVER BRIDGE
 SAN JOAQUIN 5 PM 49.78
 Br No. 29-0197R



LOCATION 4
 STONE LAKE CREEK BRIDGE
 SACRAMENTO 5 PM 8.11
 Br No. 24-0327L

LOCATION 5
 STONE LAKE CREEK BRIDGE
 SACRAMENTO 5 PM 8.11
 Br No. 24-0327R

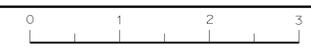
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03, 04	Sac, SJ, Sol, Yolo	5, 12	Var	6	35

REGISTERED CIVIL ENGINEER DATE 2-19-14
 PLANS APPROVAL DATE 2-24-14
 DAVID S. LAMB
 No. C53386
 Exp. 6-30-15
 CIVIL
 STATE OF CALIFORNIA

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CONSTRUCTION AREA SIGNS
 NO SCALE
CS-2

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03, 04	Sac, Sol, Yolo	5, 12	Var	7	35

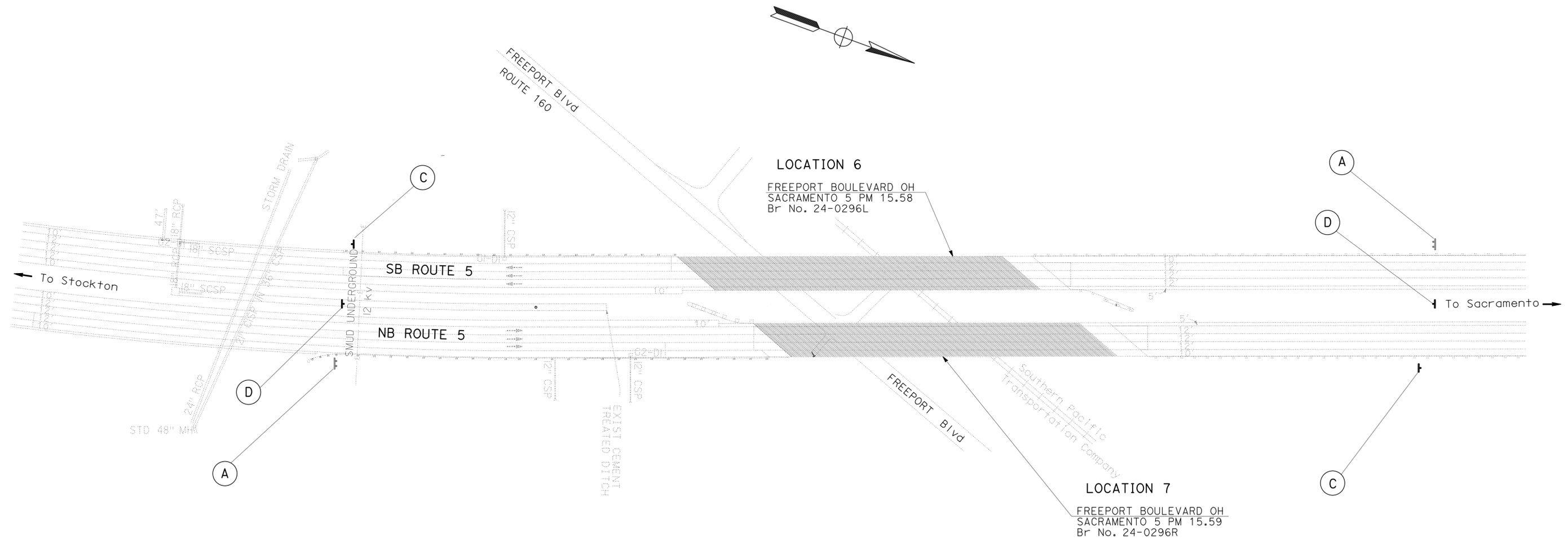
D.S. Lamb 2-19-14
 REGISTERED CIVIL ENGINEER DATE

2-24-14
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DAVID S. LAMB
 No. C53386
 Exp. 6-30-15
 CIVIL
 STATE OF CALIFORNIA

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 MAINTENANCE DESIGN
 FUNCTIONAL SUPERVISOR: RONALD S. SYKES
 CALCULATED/DESIGNED BY: CHECKED BY:
 ROBERT M. FLOYD II DAVID S. LAMB
 REVISED BY: DATE REVISED:



CONSTRUCTION AREA SIGNS
 NO SCALE
CS-3

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

LAST REVISION: 00-00-00
 DATE PLOTTED => 24-FEB-2014
 TIME PLOTTED => 14:50

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR
 RONALD S. SYKES

CALCULATED/DESIGNED BY
 CHECKED BY

ROBERT M. FLOYD II
 DAVID S. LAMB

REVISOR BY
 DATE REVISED

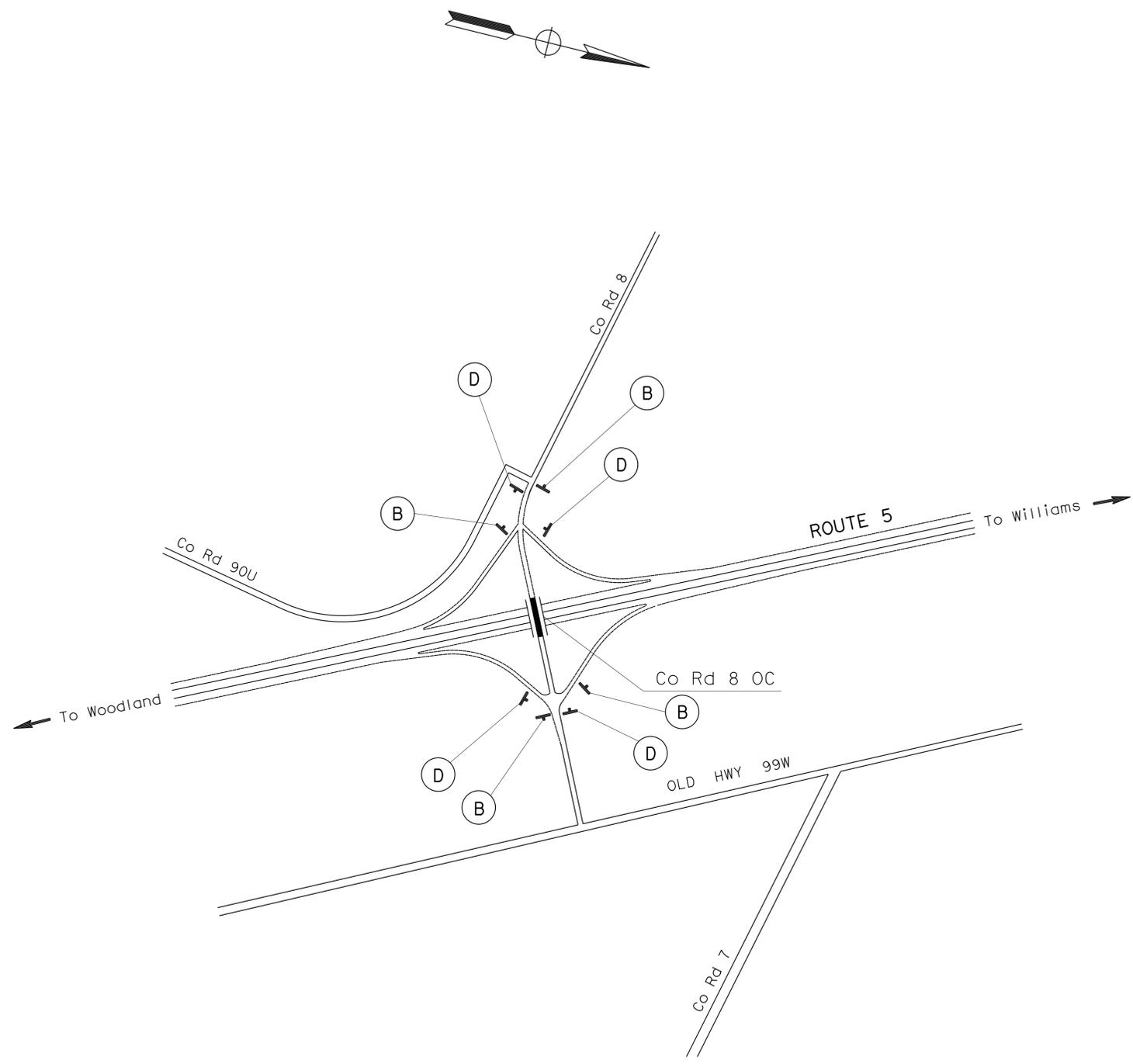
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03, 04	Sac, Sol, Yolo	5, 12	Var	8	35

D.S. Lamb 2-19-14
 REGISTERED CIVIL ENGINEER DATE

2-24-14
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DAVID S. LAMB
 No. C53386
 Exp. 6-30-15
 CIVIL
 STATE OF CALIFORNIA

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LOCATION 9
 COUNTY ROAD 8 OC
 YOLO 5 PM R23.79
 Br No. 22-0030

CONSTRUCTION AREA SIGNS
 NO SCALE
CS-4

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

DATE PLOTTED => 24-FEB-2014
 TIME PLOTTED => 14:50

REMOVE PAVEMENT DELINEATION QUANTITIES

LOCATION	COUNTY	ROUTE	BRIDGE NUMBER	DESCRIPTION	REMOVE THERMOPLASTIC TRAFFIC STRIPE	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)
					LF	LF
1	SoI	12	23-0024	SACRAMENTO RIVER (RIO VISTA)	882	882
2	SJ	5	29-0197L	MOKELUMNE RIVER	2,800	1,240
3	SJ	5	29-0197R	MOKELUMNE RIVER	2,800	1,240
4	Sac	5	24-0327L	STONE LAKE CREEK	216	98
5	Sac	5	24-0327R	STONE LAKE CREEK	216	98
6	Sac	5	24-0296L	FREEPORT BOULEVARD OH	1,692	564
7	Sac	5	24-0296R	FREEPORT BOULEVARD OH	1,692	564
8	YoI	5	22-0150	COUNTY ROAD 99S OC	670	670
9	YoI	5	22-0030	COUNTY ROAD 8 OC	414	414
TOTAL					11,382	5,770

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03, 04	Sac, SJ, Sol, YoI	5, 12	Var	10	35

D.S. Lamb 2-19-14
 REGISTERED CIVIL ENGINEER DATE

2-24-14
 PLANS APPROVAL DATE

DAVID S. LAMB
 No. C53386
 Exp. 6-30-15
 CIVIL
 STATE OF CALIFORNIA

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PAVEMENT DELINEATION QUANTITIES

LOCATION	COUNTY	ROUTE	POST MILE	BRIDGE NUMBER	DESCRIPTION	4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 36 - 12)				4" PERMANENT TAPE TRAFFIC STRIPE (BROKEN 36 - 12)				
						DETAIL 12		DETAIL 22	DETAIL 25	DETAIL 27B	DETAIL 12		DETAIL 25	DETAIL 27B
						LF	LF	LF	LF	LF	LF	LF		
1	SoI	12	26.24	23-0024	SACRAMENTO RIVER (RIO VISTA)			1,494		1,494				
2	SJ	5	49.78	29-0197L	MOKELUMNE RIVER	1,245			1,245					
3	SJ	5	49.78	29-0197R	MOKELUMNE RIVER	1,245			1,245					
4	Sac	5	8.11	24-0327L	STONE LAKE CREEK					98	98	98		
5	Sac	5	8.11	24-0327R	STONE LAKE CREEK					98	98	98		
6	Sac	5	15.58	24-0296L	FREEPORT BOULEVARD OH					1,628	814	814		
7	Sac	5	15.59	24-0296R	FREEPORT BOULEVARD OH					1,628	814	814		
8	YoI	5	R9.41	22-0150	COUNTY ROAD 99S OC			670		670				
9	YoI	5	R23.79	22-0030	COUNTY ROAD 8 OC			524		524				
SUBTOTAL						2,490	2,688	2,490	5,178	3,452	1,824	1,824		
TOTAL						2,490	10,356	3,452	3,648	3,648	3,648	3,648		

PAVEMENT DELINEATION QUANTITIES

LOCATION	COUNTY	ROUTE	BRIDGE NUMBER	DESCRIPTION	DETAIL NUMBER	PAVEMENT MARKER (RETROREFLECTIVE)		
						TYPE D	TYPE G	TYPE H
						EA	EA	EA
1	SoI	12	23-0024	SACRAMENTO RIVER (RIO VISTA)	22	64		
2	SJ	5	29-0197L	MOKELUMNE RIVER	12, 25		27	27
3	SJ	5	29-0197R	MOKELUMNE RIVER	12, 25		27	27
4	Sac	5	24-0327L	STONE LAKE CREEK	12, 25		3	3
5	Sac	5	24-0327R	STONE LAKE CREEK	12, 25		3	3
6	Sac	5	24-0296L	FREEPORT BOULEVARD OH	12, 25		26	13
7	Sac	5	24-0296R	FREEPORT BOULEVARD OH	12, 25		26	13
8	YoI	5	22-0150	COUNTY ROAD 99S OC	22	26		
9	YoI	5	22-0030	COUNTY ROAD 8 OC	22	24		
SUBTOTAL						114	112	86
TOTAL						312	312	312

**PAVEMENT DELINEATION QUANTITIES
PDQ-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 MAINTENANCE DESIGN
 FUNCTIONAL SUPERVISOR
 RONALD S. SYKES
 CALCULATED/DESIGNED BY
 CHECKED BY
 ROBERT M. FLOYD II
 DAVID S. LAMB
 REVISED BY
 DATE REVISED



x
x
x
x
x

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN
 FUNCTIONAL SUPERVISOR
 RONALD S. SYKES
 CALCULATED/DESIGNED BY
 CHECKED BY
 ROBERT M. FLOYD II
 DAVID S. LAMB
 REVISED BY
 DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03, 04	Sac,SJ, Sol,Yol	5,12	Var	11	35

D.S. Lamb 2-19-14
 REGISTERED CIVIL ENGINEER DATE

2-24-14
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 DAVID S. LAMB
 No. C53386
 Exp. 6-30-15
 CIVIL
 STATE OF CALIFORNIA

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ROADWAY QUANTITIES

LOCATION NUMBER	COUNTY AND ROUTE	BRIDGE NUMBER	DESCRIPTION	HOT MIX ASPHALT (TYPE A)	RUBBERIZED HOT MIX ASPHALT (OPEN GRADED)	COLD PLANE AC PAVEMENT	GRIND EXISTING CONCRETE PAVEMENT	TACK COAT
				TON	TON	SQYD	SQYD	TON
6	Sac 5	24-0296L	FREEPORT BOULEVARD OH		80	500	134	0.16
7	Sac 5	24-0296R	FREEPORT BOULEVARD OH		80	500	134	0.16
9	Yol 5	22-0030	COUNTY ROAD 8 OC	48		213		0.04
SUBTOTAL				48	160	1,213	268	0.36
TOTAL				48	160	1,213	268	0.36

NOTE:
 COLD PLANE OF APPROACH AND DEPARTURE IS 2' OUTSIDE OF EACH ETW , EXCEPT AT LOCATION 9 WHERE COLD PLANE GOES FROM EP TO EP.

SUMMARY OF QUANTITIES

Q-1

	M	
Maint	MAINTENANCE	
Max	MAXIMUM	
MB	METAL BEAM	
MBB	METAL BEAM BARRIER	
MBGR	METAL BEAM GUARD RAILING	
Med	MEDIAN	
MGS	MIDWEST GUARDRAIL SYSTEM	
MH	MANHOLE	
Min	MINIMUM	
Misc	MISCELLANEOUS	
Misc I & S	MISCELLANEOUS IRON AND STEEL	
Mkr	MARKER	
Mod	MODIFIED, MODIFY	
Mon	MONUMENT	
MP	METAL PLATE	
MPGR	METAL PLATE GUARD RAILING	
MR	MOVEMENT RATING	
MSE	MECHANICALLY STABILIZED EMBANKMENT	
Mt	MOUNTAIN, MOUNT	
MtI	MATERIAL	
MVP	MAINTENANCE VEHICLE PULLOUT	
	N	
N	NORTH	
NB	NORTHBOUND	
No.	NUMBER (MUST HAVE PERIOD)	
Nos.	NUMBERS (MUST HAVE PERIOD)	
NPS	NOMINAL PIPE SIZE	
NS	NEAR SIDE	
NSP	NEW STANDARD PLAN	
NTS	NOT TO SCALE	
	O	
ObItr	OBLITERATE	
OC	OVERCROSSING	
OD	OUTSIDE DIAMETER	
OF	OUTSIDE FACE	
OG	ORIGINAL GROUND	
OGAC	OPEN GRADED ASPHALT CONCRETE	
OGFC	OPEN GRADED FRICTION COURSE	
OH	OVERHEAD	
OHWM	ORDINARY HIGH WATER MARK	
O-O	OUT TO OUT	
Opp	OPPOSITE	
OSD	OVERSIDE DRAIN	
	P	
P	PAGE	
PAP	PERFORATED ALUMINUM PIPE	
PB	PULL BOX	
PC	POINT OF CURVATURE, PRECAST	
PCC	POINT OF COMPOUND CURVE, PORTLAND CEMENT CONCRETE	
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN	
PCP	PERFORATED CONCRETE PIPE, PRESTRESSED CONCRETE PIPE	
PCVC	POINT OF COMPOUND VERTICAL CURVE	
PEC	PERMIT TO ENTER AND CONSTRUCT	
Ped	PEDESTRIAN	
Ped OC	PEDESTRIAN OVERCROSSING	
Ped UC	PEDESTRIAN UNDERCROSSING	
Perm MtI	PERMEABLE MATERIAL	

	P continued	
PG	PROFILE GRADE	
PI	POINT OF INTERSECTION	
PJP	PARTIAL JOINT PENETRATION	
Pkwy	PARKWAY	
PL, PL	PLATE	
P/L	PROPERTY LINE	
PM	POST MILE, TIME FROM NOON TO MIDNIGHT	
PN	PAVING NOTCH	
POC	POINT OF HORIZONTAL CURVE	
POT	POINT OF TANGENT	
POVC	POINT OF VERTICAL CURVE	
PP	PIPE PILE, PLASTIC PIPE, POWER POLE	
PPL	PREFORMED PERMEABLE LINER	
PPP	PERFORATED PLASTIC PIPE	
PRC	POINT OF REVERSE CURVE	
PRF	PAVEMENT REINFORCING FABRIC	
PRVC	POINT OF REVERSE VERTICAL CURVE	
PS&E	PLANS, SPECIFICATIONS AND ESTIMATES	
PS, P/S	PRESTRESSED	
PSP	PERFORATED STEEL PIPE	
PT	POINT OF TANGENCY	
PVC	POLYVINYL CHLORIDE	
Pvmt	PAVEMENT	
	Q	
Qty	QUANTITY	
	R	
R	RADIUS	
R & D	REMOVE AND DISPOSE	
R & S	REMOVE AND SALVAGE	
R/C	RATE OF CHANGE	
RCA	REINFORCED CONCRETE ARCH	
RCB	REINFORCED CONCRETE BOX	
RCP	REINFORCED CONCRETE PIPE	
RCPA	REINFORCED CONCRETE PIPE ARCH	
Rd	ROAD	
Reinf	REINFORCED, REINFORCEMENT, REINFORCING	
Rel	RELOCATE	
Repl	REPLACEMENT	
Ret	RETAINING	
Rev	REVISED, REVISION	
Rdwy	ROADWAY	
RHMA	RUBBERIZED HOT MIX ASPHALT	
Riv	RIVER	
RM	ROAD-MIXED	
RP	RADIUS POINT, REFERENCE POINT	
RR	RAILROAD	
RSP	ROCK SLOPE PROTECTION, REVISED STANDARD PLAN	
Rt	RIGHT	
Rte	ROUTE	
RW	REDWOOD, RETAINING WALL	
R/W	RIGHT OF WAY	
Rwy	RAILWAY	

	S	
S	SOUTH, SUPPLEMENT	
SAE	STRUCTURE APPROACH EMBANKMENT	
Salv	SALVAGE	
SAPP	STRUCTURAL ALUMINUM PLATE PIPE	
SB	SOUTHBOUND	
SC	SAND CUSHION	
SCSP	SLOTTED CORRUGATED STEEL PIPE	
SD	STORM DRAIN	
Sec	SECOND, SECTION	
Sep	SEPARATION	
SG	SUBGRADE	
Shld	SHOULDER	
Sht	SHEET	
Sim	SIMILAR	
±	STATION LINE	
SM	SELECTED MATERIAL	
Spec	SPECIAL, SPECIFICATIONS	
SPP	SLOTTED PLASTIC PIPE	
SS	SLOPE STAKE	
SSBM	STRAP AND SADDLE BRACKET METHOD	
SSD	STRUCTURAL SECTION DRAIN	
SSPA	STRUCTURAL STEEL PLATE ARCH	
SSPP	STRUCTURAL STEEL PLATE PIPE	
SSPPA	STRUCTURAL STEEL PLATE PIPE ARCH	
SSRP	STEEL SPIRAL RIB PIPE	
St	STREET	
Sta	STATION	
STBB	SINGLE THRIE BEAM BARRIER	
Std	STANDARD	
Str	STRUCTURE	
Surf	SURFACING	
SW	SIDEWALK, SOUND WALL	
Swr	SEWER	
Sym	SYMMETRICAL	
S4S	SURFACE 4 SIDES	
	T	
T	SEMI-TANGENT	
Tan	TANGENT	
TBB	THRIE BEAM BARRIER	
Tbr	TIMBER	
TC	TOP OF CURB	
TCB	TRAFFIC CONTROL BOX	
TCE	TEMPORARY CONSTRUCTION EASEMENT	
Tel	TELEPHONE	
Temp	TEMPORARY	
TG	TOP OF GRADE	
To+	TOTAL	
TP	TELEPHONE POLE	
TPB	TREATED PERMEABLE BASE	
TPM	TREATED PERMEABLE MATERIAL	
Trans	TRANSITION	

	T continued	
TS	TRANSVERSE, TRAFFIC SIGNAL, TUBULAR STEEL	
Typ	TYPICAL	U
UC	UNDERCROSSING	
UD	UNDERDRAIN	
UG	UNDERGROUND	
UON	UNLESS OTHERWISE NOTED	
UP	UNDERPASS	V
V	VALVE, DESIGN SPEED	
Var	VARIABLE, VARIES	W
VC	VERTICAL CURVE	
VCP	VITRIFIED CLAY PIPE	
Vert	VERTICAL	
Via	VIADUCT	
Vol	VOLUME	
W	WEST, WIDTH	
WB	WESTBOUND	
WH	WEEP HOLE	
WM	WIRE MESH	
WS	WATER SURFACE	
WSP	WELDED STEEL PIPE	
Wt	WEIGHT	
WV	WATER VALVE	
WW	WINGWALL	
WWLOL	WINGWALL LAYOUT LINE	X
X Sec	CROSS SECTION	
Xing	CROSSING	Y
Yr	YEAR	
Yrs	YEARS	

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03, Sac, SJ, 04, Sol, Yo		5, 12	Var	12	35

Grace M. Tsushima
REGISTERED CIVIL ENGINEER

July 19, 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.

TO ACCOMPANY PLANS DATED 2-24-14

UNIT OF MEASUREMENT SYMBOLS:
Some of the symbols used in the project plan quantity tables and in the Bid Item List are:

TABLE A

SYMBOL USED	DEFINITIONS
ACRE	ACRE
CF	CUBIC FOOT
CY	CUBIC YARD
EA	EACH
GAL	GALLON
LB	POUND
LF	LINEAR FOOT
SQFT	SQUARE FOOT
SQYD	SQUARE YARD
STA	100 FEET
TAB	TABLET
TON	2,000 POUNDS

Some of the symbols used in the plans other than in the project plan quantity tables are:

TABLE B

SYMBOL USED	DEFINITIONS
ksi	KIPS PER SQUARE INCH
ksf	KIPS PER SQUARE FOOT
psi	POUNDS PER SQUARE INCH
psf	POUNDS PER SQUARE FOOT
lb/ft ³ , pcf	POUNDS PER CUBIC FOOT
tsf	TONS PER SQUARE FOOT
mph, MPH *	MILES PER HOUR
ø	NOMINAL DIAMETER
oz	OUNCE
lb	POUND
kip	1,000 POUNDS
cal	CALORIE
ft	FOOT OR FEET
gal	GALLON

* For use on a sign panel only

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**ABBREVIATIONS
(SHEET 2 OF 2)**

NO SCALE

2010 REVISED STANDARD PLAN RSP A10B

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03, 04	Sac, Sol, Yolo	5, 12	Var	13	35

Gurinderpal Bhullar
REGISTERED CIVIL ENGINEER

July 19, 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.

TO ACCOMPANY PLANS DATED 2-24-14

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		
	TANGENT 2L	MERGING L	SHIFTING L/2	SHOULDER L/3	X	Y	Z **
					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%
		ft	ft	ft
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 recommended 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

2010 REVISED STANDARD PLAN RSP T9

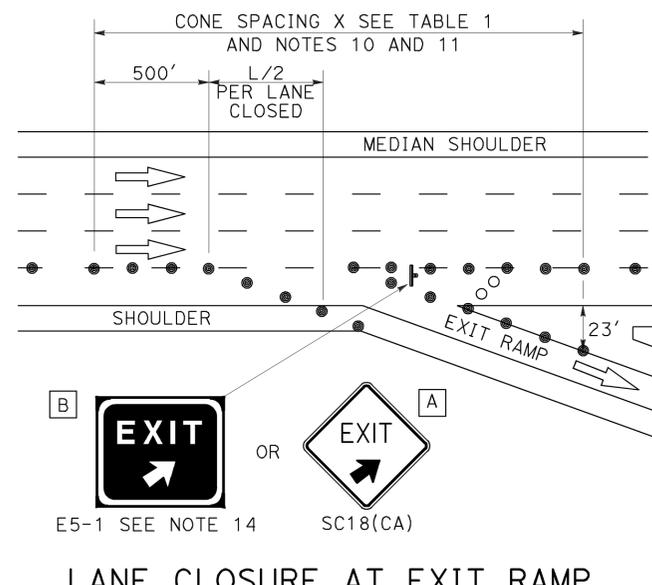
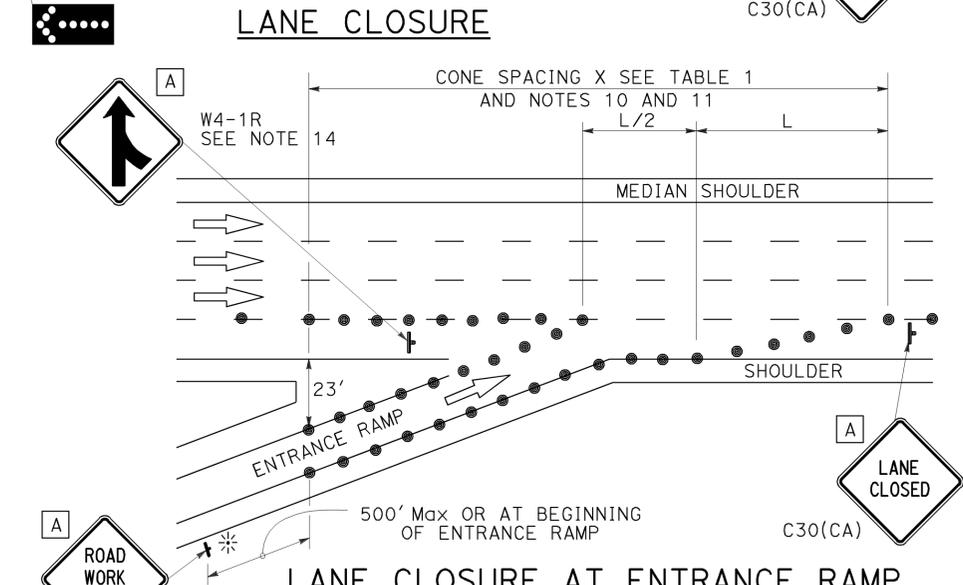
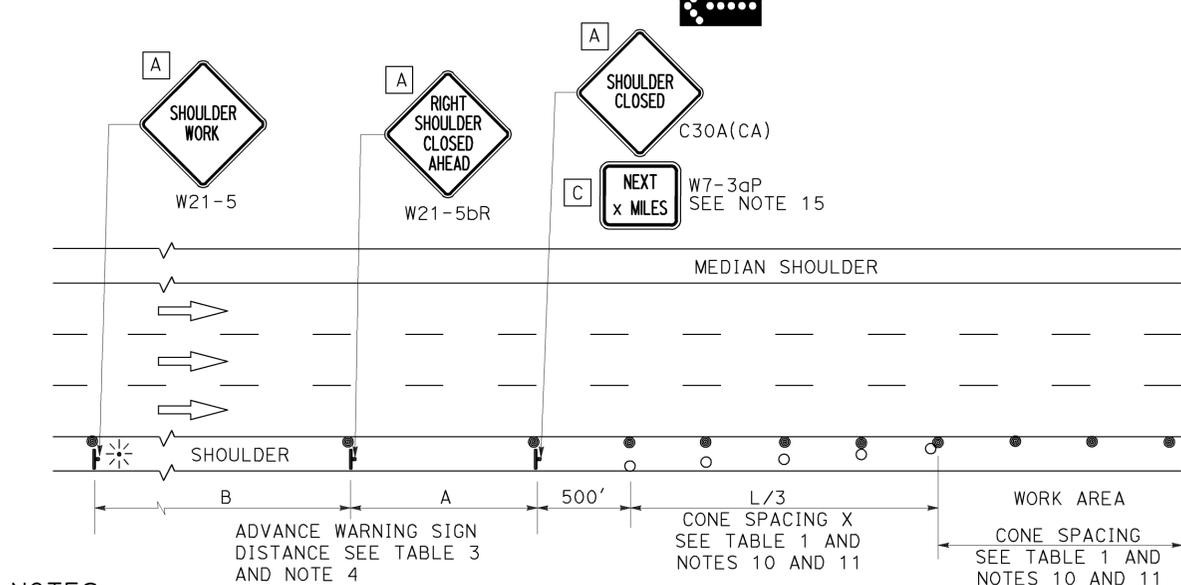
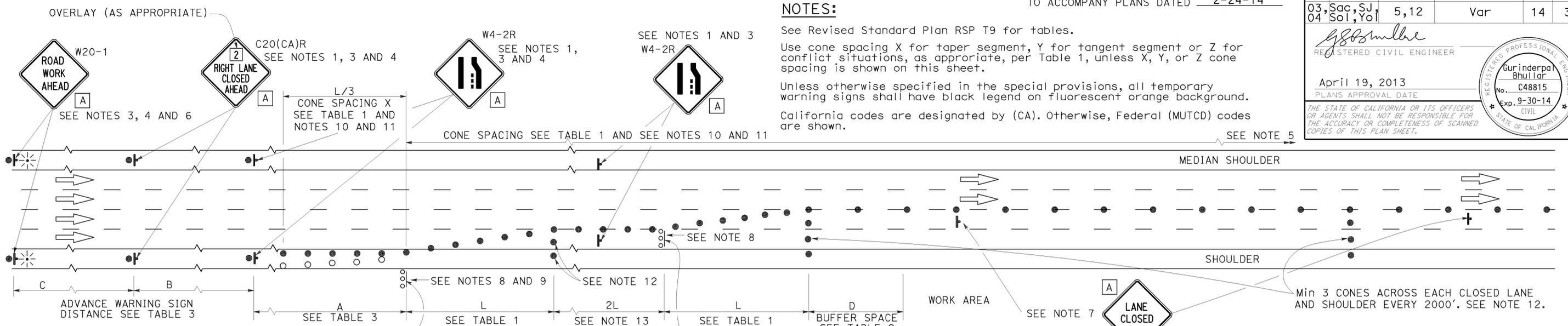
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03, Sac, SJ, 04, Sol, Yof		5, 12	Var	14	35

gsbmlbr
 REGISTERED CIVIL ENGINEER
 April 19, 2013
 PLANS APPROVAL DATE
 Gurinderpal Bhullar
 No. C48815
 Exp. 9-30-14
 CIVIL
 STATE OF CALIFORNIA

TO ACCOMPANY PLANS DATED 2-24-14

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 appropriate, 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.



NOTES:

- Median lane closures shall conform to the details as shown except that C20(CA)L and W4-2L 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 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.

SHOULDER CLOSURE

- 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.
- Place a C30(CA) sign every 2000' throughout length of lane closure.
- One flashing arrow sign for each lane closed. The flashing arrow signs shall be Type I.
- 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.

LANE CLOSURE AT ENTRANCE RAMP

- 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 2L tangent shown along lane lines shall be used between the L tapers required for each closed traffic lane.
- Unless otherwise specified in the special provisions, the E5-1 or SC18(CA) signs shall be used as shown.
- A W7-3aP "NEXT _____ MILES" plaque must be used if the shoulder closure extends beyond the distance that can be perceived by road users.

LANE CLOSURE AT EXIT RAMP

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

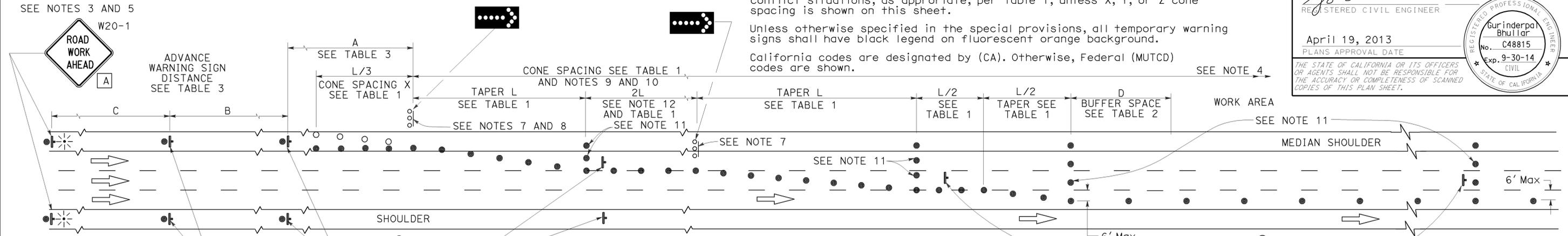
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Sacramento	5,12	Var	15	35

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

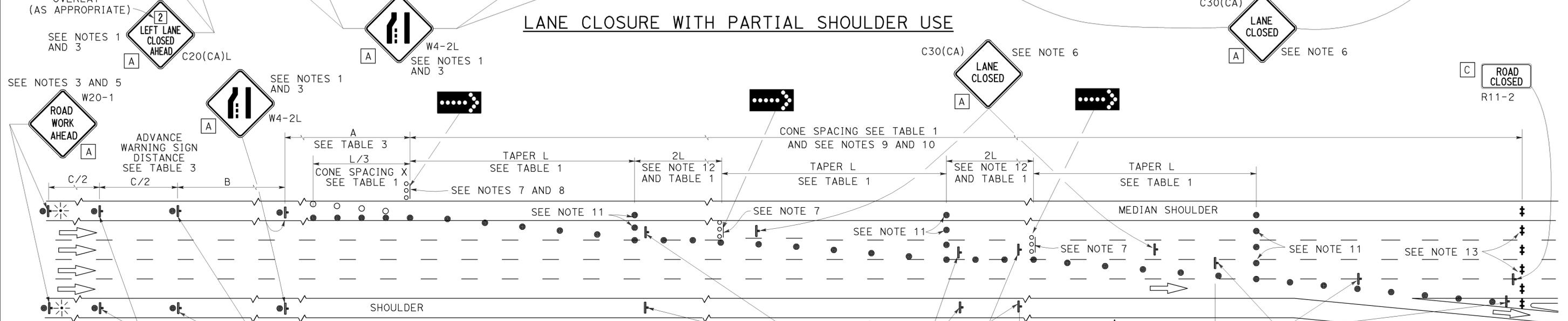
April 19, 2013
 PLANS APPROVAL DATE

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.

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 appropriate, 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 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 as shown except that C20(CA)R and W4-2R 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 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.
- 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.
- Place a C30(CA) sign every 2000' throughout length of lane closure.
- One flashing arrow sign for each lane closed. The flashing arrow signs shall be Type I.
- 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 2L tangent shown along lane lines shall be used between the L tapers required for each closed traffic lane.
- A minimum of Two Type II or III 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.

SIGN PANEL SIZE (Min)

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

LEGEND

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

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
 FOR LANE CLOSURES ON
 FREEWAYS AND EXPRESSWAYS**
 NO SCALE

RSP T10A DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T10A
 DATED MAY 20, 2011 - PAGE 238 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T10A

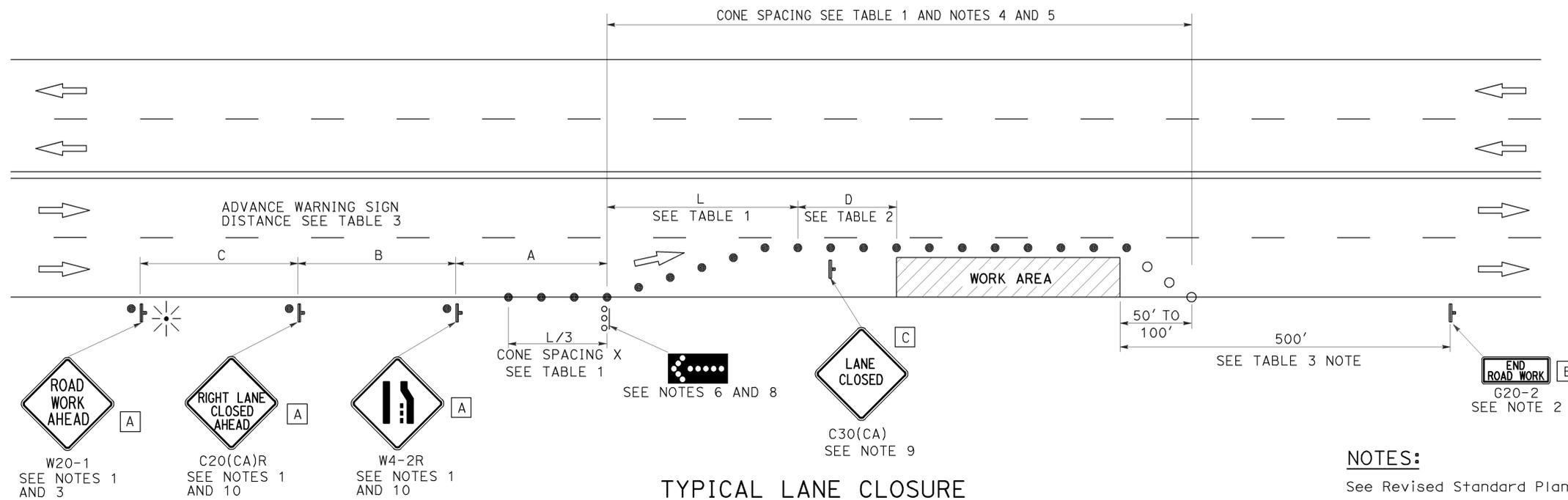
2010 REVISED STANDARD PLAN RSP T10A

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03, 04	Sac, Sol, Yof	5, 12	Var	16	35


 REGISTERED CIVIL ENGINEER
 April 19, 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.

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

TO ACCOMPANY PLANS DATED 2-24-14



TYPICAL LANE CLOSURE

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 appropriate, 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.

NOTES:

1. Each advance warning 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. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
2. A G20-2 "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.
3. 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.
4. All cones used for lane 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 closures only.
6. Flashing arrow sign shall be either Type I or Type II.
7. 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.
8. 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.
9. Place a C30(CA) sign every 2000' throughout length of lane closure.
10. Median lane closures shall conform to the details as shown except that C20(CA)L and W4-2L signs shall be used.
11. 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.

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)

-  48" x 48"
-  36" x 18"
-  30" x 30"

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
 FOR LANE CLOSURE ON
 MULTILANE CONVENTIONAL
 HIGHWAYS**

NO SCALE

RSP T11 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T11
 DATED MAY 20, 2011 - PAGE 239 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T11

2010 REVISED STANDARD PLAN RSP T11

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03, 04	Sac, Sol, Yof	5, 12	Var	17	35

REGISTERED CIVIL ENGINEER
 April 19, 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.



LEGEND

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

SIGN PANEL SIZE (Min)

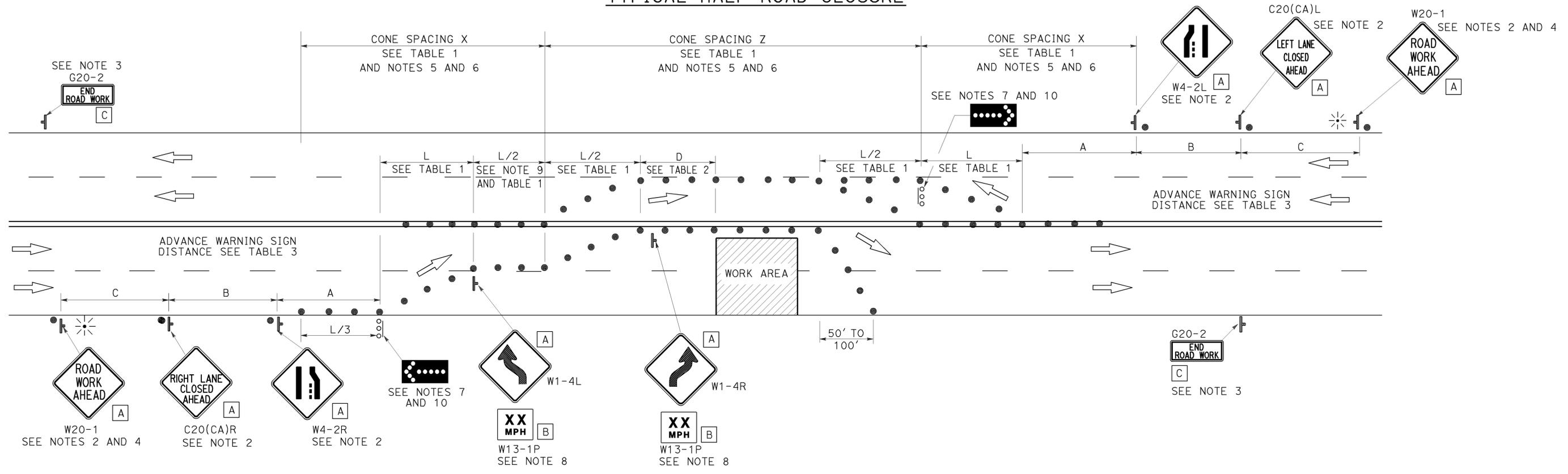
- A 48" x 48"
- B 24" x 24"
- C 36" x 18"

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 appropriate, 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.

TO ACCOMPANY PLANS DATED 2-24-14

TYPICAL HALF ROAD CLOSURE



NOTES:

- 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 G20-2 "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 G20-1 "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 W13-1P Plaque will not be required when advisory speed is more than the posted or maximum speed limit.
- Unless otherwise specified in the special provisions, the tangent (L/2) shall be used.
- 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.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

**TRAFFIC CONTROL SYSTEM
 FOR HALF ROAD CLOSURE ON
 MULTILANE CONVENTIONAL
 HIGHWAYS AND EXPRESSWAYS**

NO SCALE

RSP T12 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T12
 DATED MAY 20, 2011 - PAGE 240 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T12

2010 REVISED STANDARD PLAN RSP T12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03, 04	Sac, Sol, Yof	5, 12	Var	18	35

Registered Civil Engineer
 Gurinderpal Bhuillar
 No. C48815
 Exp. 9-30-14
 CIVIL
 STATE OF CALIFORNIA

April 19, 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.

NOTES:

See Revised Standard Plan RSP T9 for tables.

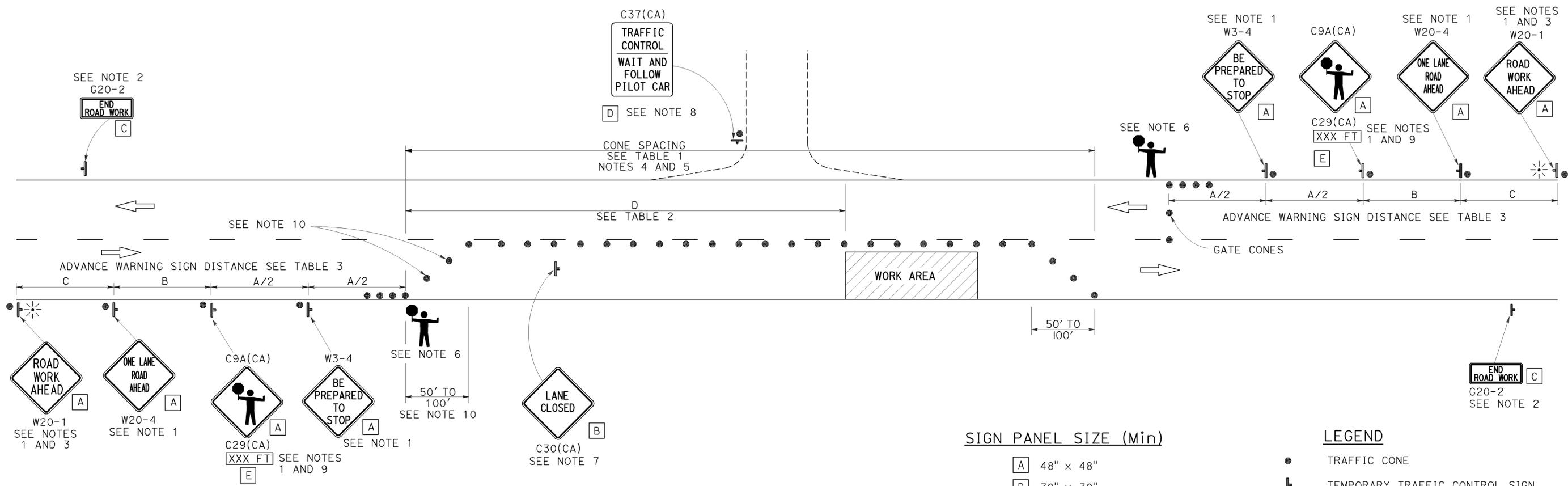
Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

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.

TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL

TO ACCOMPANY PLANS DATED 2-24-14



NOTES:

- 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 G20-2 "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane control 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 G20-1 "ROAD WORK NEXT _____ MILES", use a W20-4 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.
- Additional advance flaggers may be required. Flagger should stand in a conspicuous place, be visible to approaching traffic as well as approaching vehicles after the first vehicle has stopped. During the hours of darkness, the flagging-station and flagger shall be illuminated and clearly visible to approaching traffic. The illumination footprint of the lighting on the ground shall be at least 20' in diameter. Place a minimum of four cones at 50' intervals in advance of flagger station as shown.
- Place C30(CA) "LANE CLOSED" sign at 500' to 1000' intervals throughout extended work areas. They are optional if the work area is visible from the flagger station.
- When a pilot car is used, place a C37(CA) "TRAFFIC CONTROL-WAIT AND FOLLOW PILOT CAR" sign with black legend on white background at all intersections, driveways and alleys without a flagger within traffic control area. Signs shall be clean and visible at all times. Where traffic can not be effectively self-regulated, at least one flagger shall be used at each intersection within traffic control area.
- An optional C29(CA) sign may be placed below the C9A(CA) sign.
- Either traffic cones or barricades shall be placed on the taper. Barricades shall be Type I, II, or III.

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 30" x 30"
- C 36" x 18"
- D 36" x 42"
- E 20" x 7"

LEGEND

- TRAFFIC CONE
- ⊥ TEMPORARY TRAFFIC CONTROL SIGN
- ☼ PORTABLE FLASHING BEACON
- 🚧 FLAGGER

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

NO SCALE

RSP T13 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T13
DATED MAY 20, 2011 - PAGE 241 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T13

2010 REVISED STANDARD PLAN RSP T13

TYPICAL RAMP CLOSURES

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03, 04	Sac, Sol, Yolo	5, 12	Var	19	35

Gurinderpal Bhullar
 REGISTERED CIVIL ENGINEER
 April 19, 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.

SIGN PANEL SIZE (Min)

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

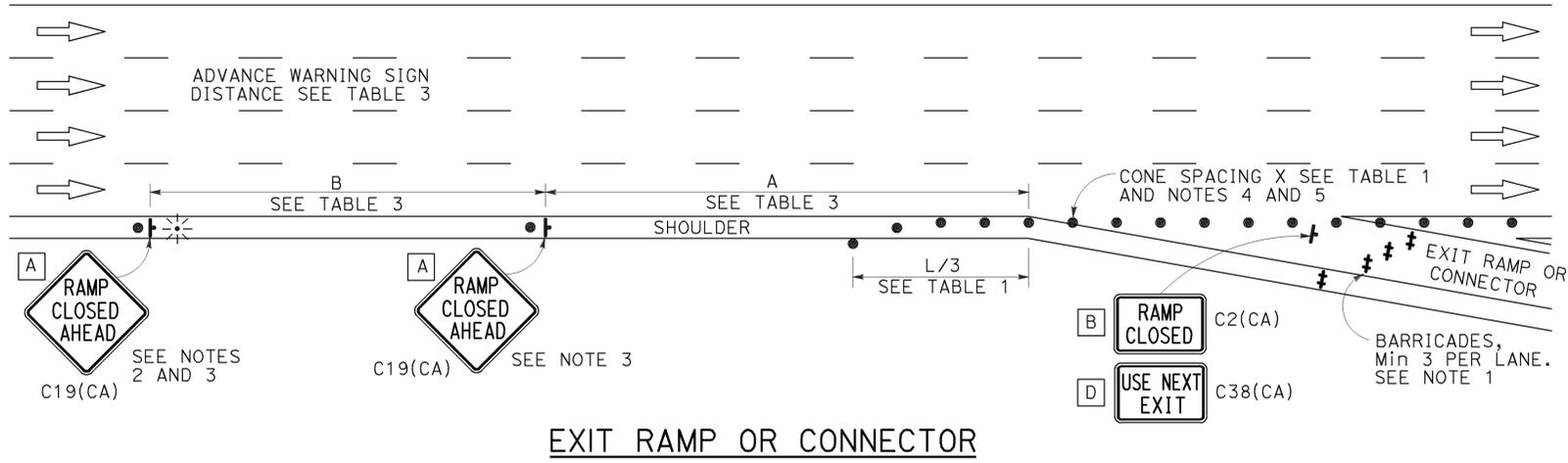
LEGEND

- TRAFFIC CONE
- † TEMPORARY TRAFFIC CONTROL SIGN
- ‡ BARRICADES
- ☼ PORTABLE FLASHING BEACON

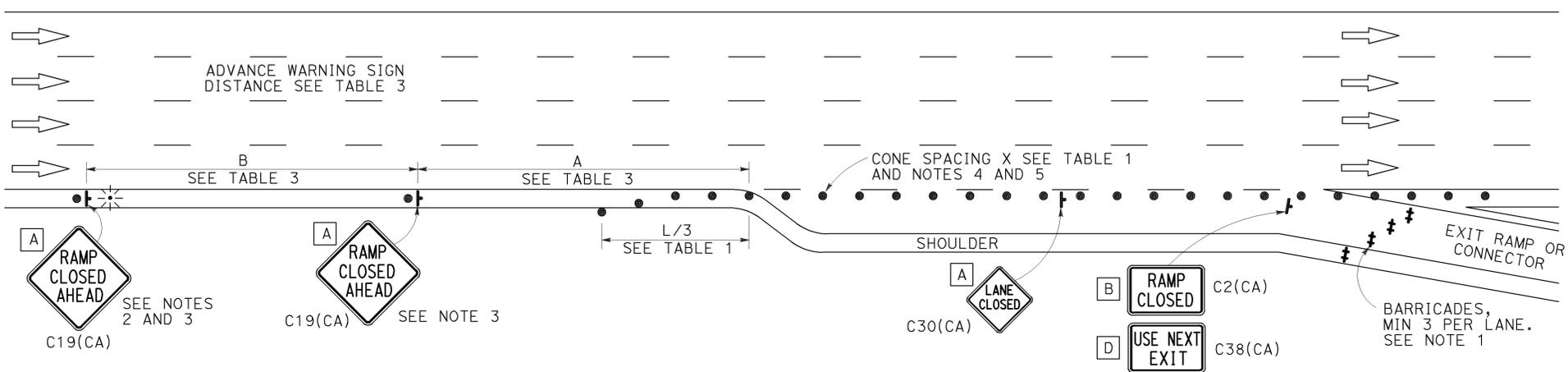
TO ACCOMPANY PLANS DATED 2-24-14

NOTES:

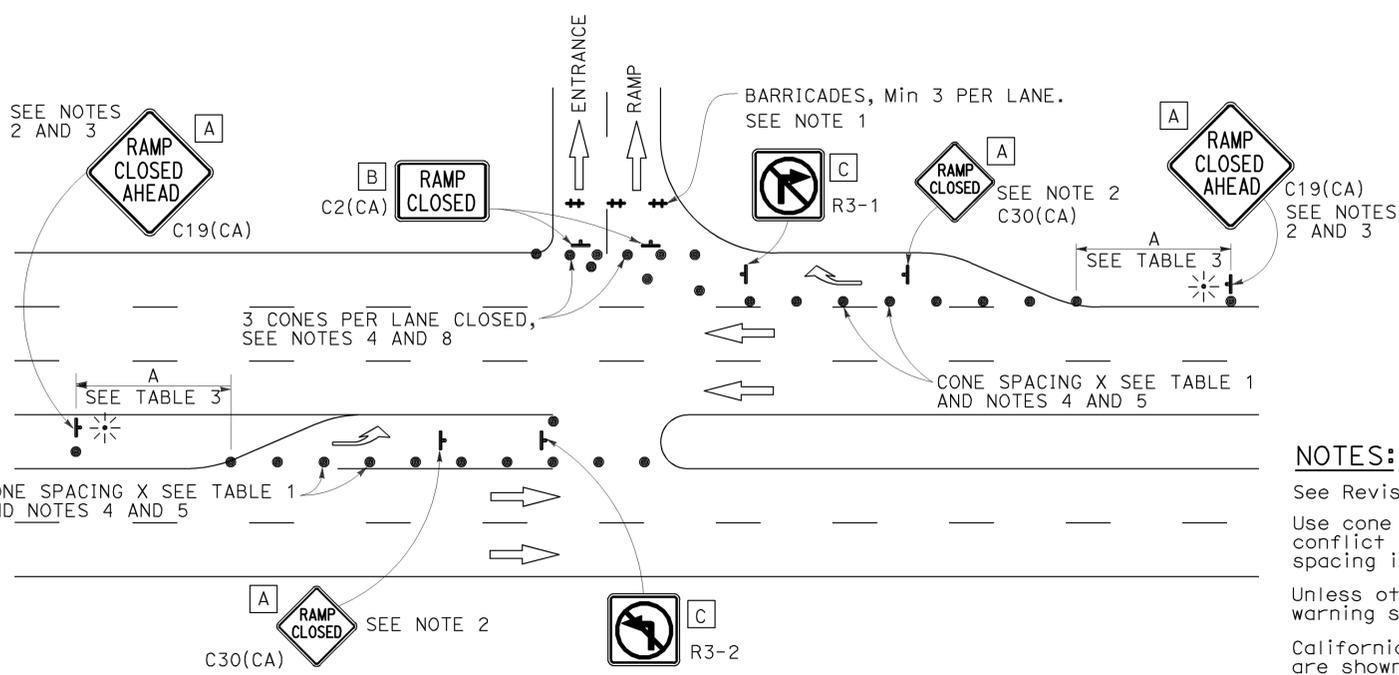
- Barricades shall be Type I, II, or III for closures lasting one week or less and Type III for closures lasting longer than one week.
- In addition to placing the C19(CA) "RAMP CLOSED AHEAD" and C30(CA) "RAMP CLOSED" signs, black on orange overlay plates with the word "CLOSED" may be mounted, as directed 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. A flashing beacon shall be placed on top of the first C19(CA) sign during hours of darkness.
- 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" signs shall be covered during ramp closures.
- A minimum of 3 cones shall be placed transversely across each closed lane and shoulder.



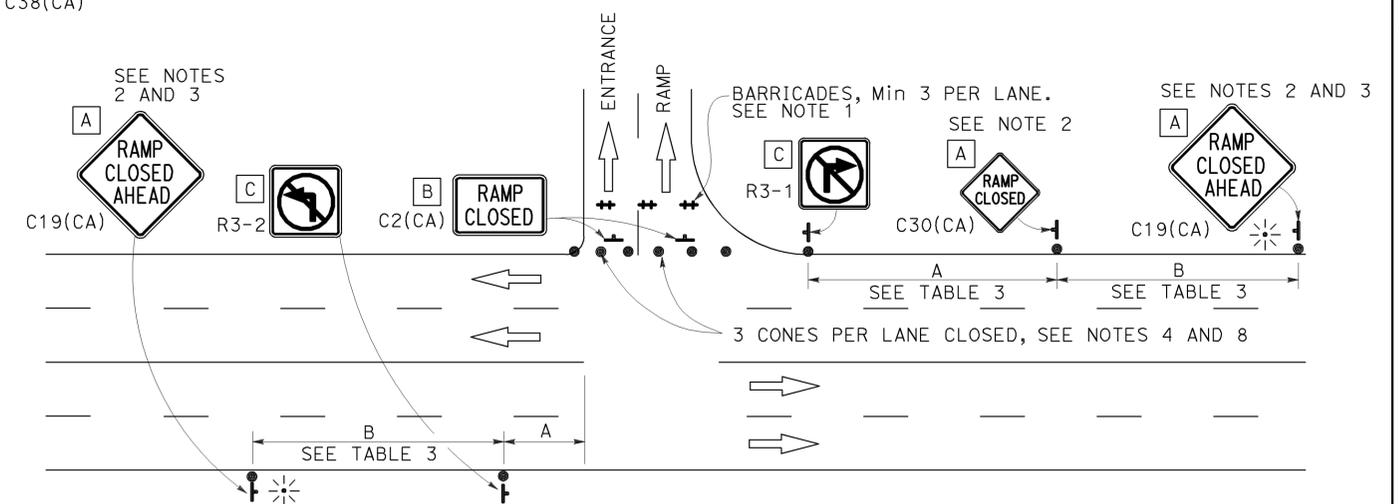
EXIT RAMP OR CONNECTOR



EXIT RAMP OR CONNECTOR WITH ADDITIONAL LANE



ENTRANCE RAMP WITH TURNING POCKETS



ENTRANCE RAMP WITHOUT TURNING POCKETS

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 appropriate, 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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03, 04	Sac, Sol, Yof	5, 12	Var	20	35

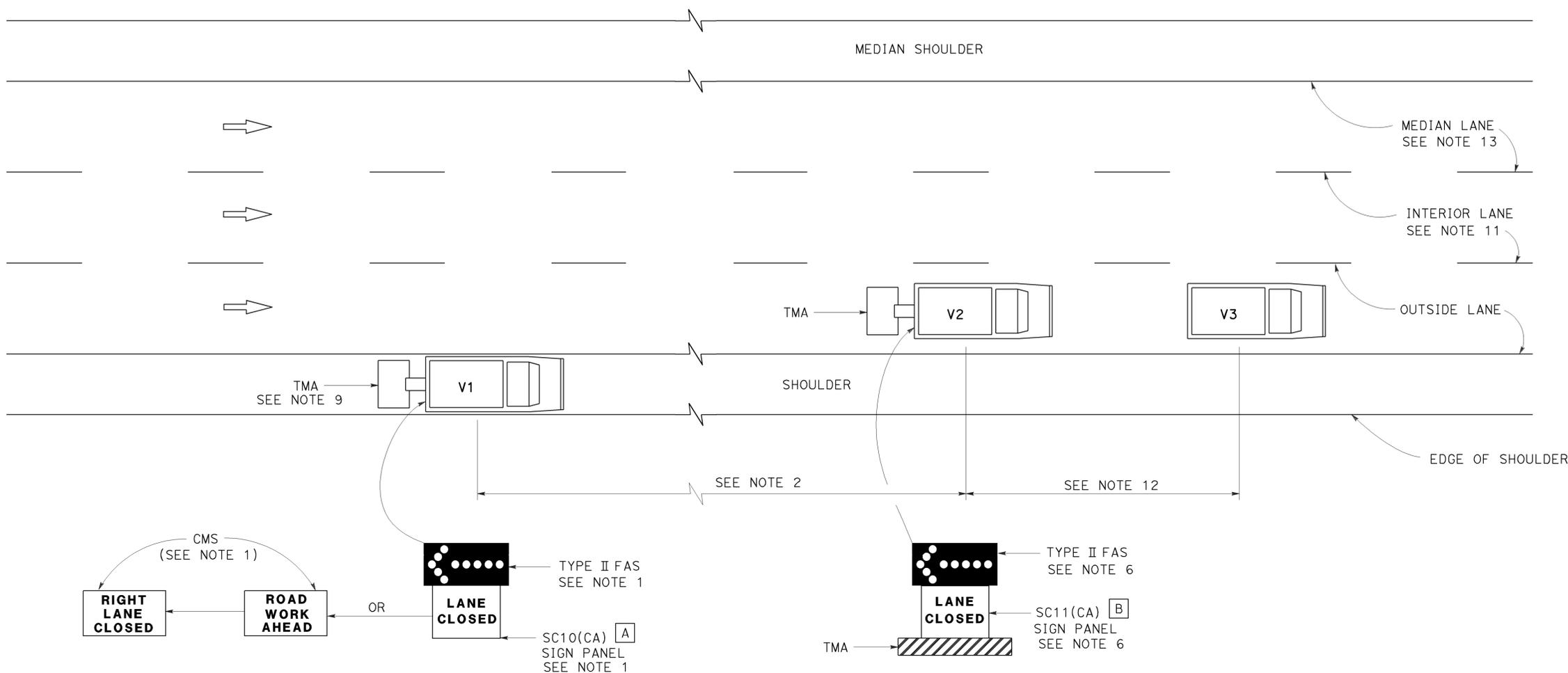
Registered Civil Engineer
 Gurinderpal Bhullar
 No. C48815
 Exp. 9-30-14
 CIVIL
 STATE OF CALIFORNIA

April 19, 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.

TO ACCOMPANY PLANS DATED 2-24-14

2010 REVISED STANDARD PLAN RSP T15



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

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

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. 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".
- 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 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.
- 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.
- 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.
- All vehicles shall be equipped with flashing or rotating amber lights.
- 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.
- 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.
- For moving lane closure on interior lane of multilane highways, use Revised Standard Plan T16.
- 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.
- 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

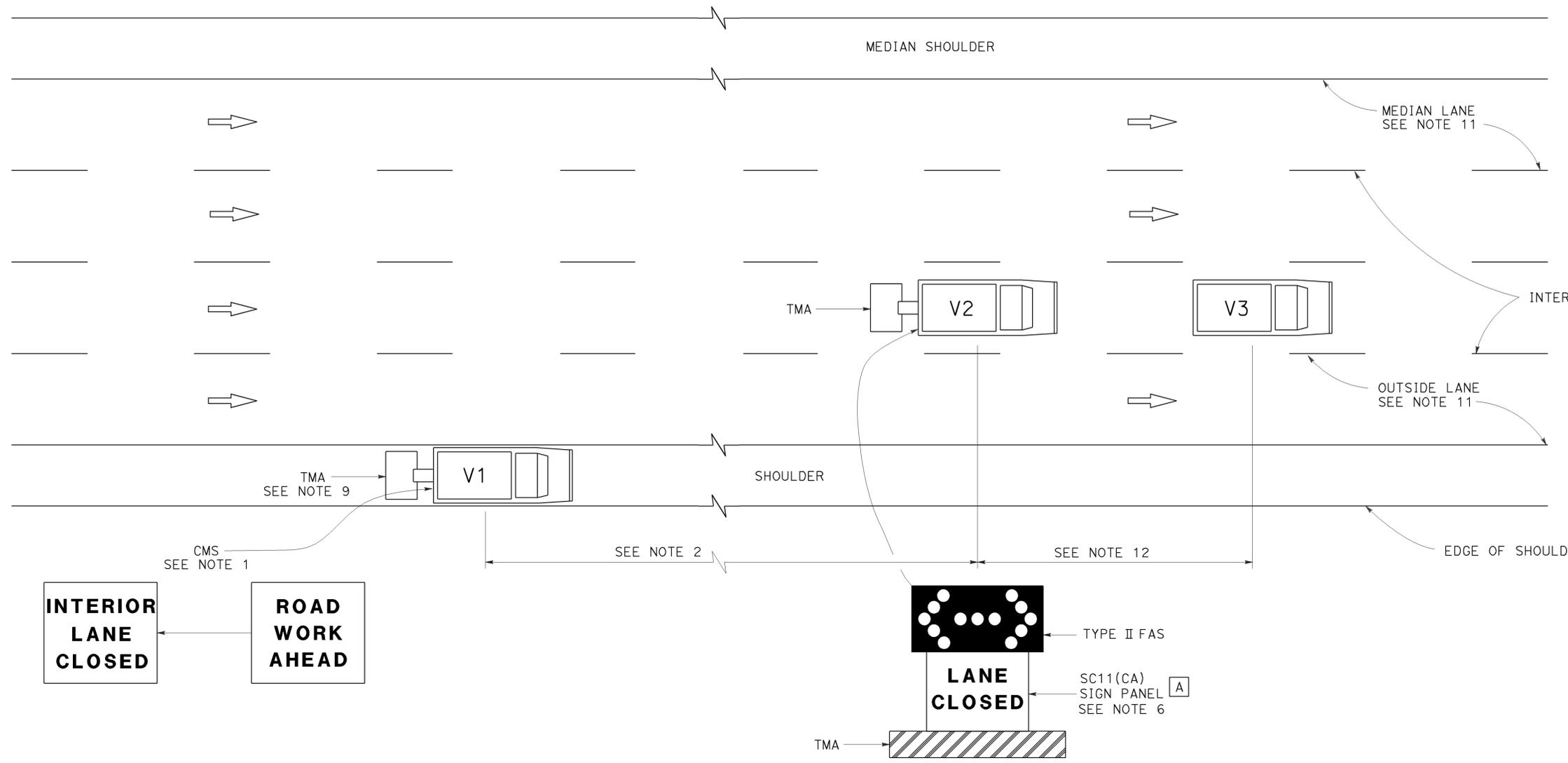
RSP T15 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T15 DATED MAY 20, 2011 - PAGE 243 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T15

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03, Sac, SJ, 04, Sol, Yof		5, 12	Var	21	35

Gurinderpal Bhullar
 REGISTERED CIVIL ENGINEER
 April 19, 2013
 PLANS APPROVAL DATE
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TO ACCOMPANY PLANS DATED 2-24-14



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

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 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

2010 REVISED STANDARD PLAN RSP T16

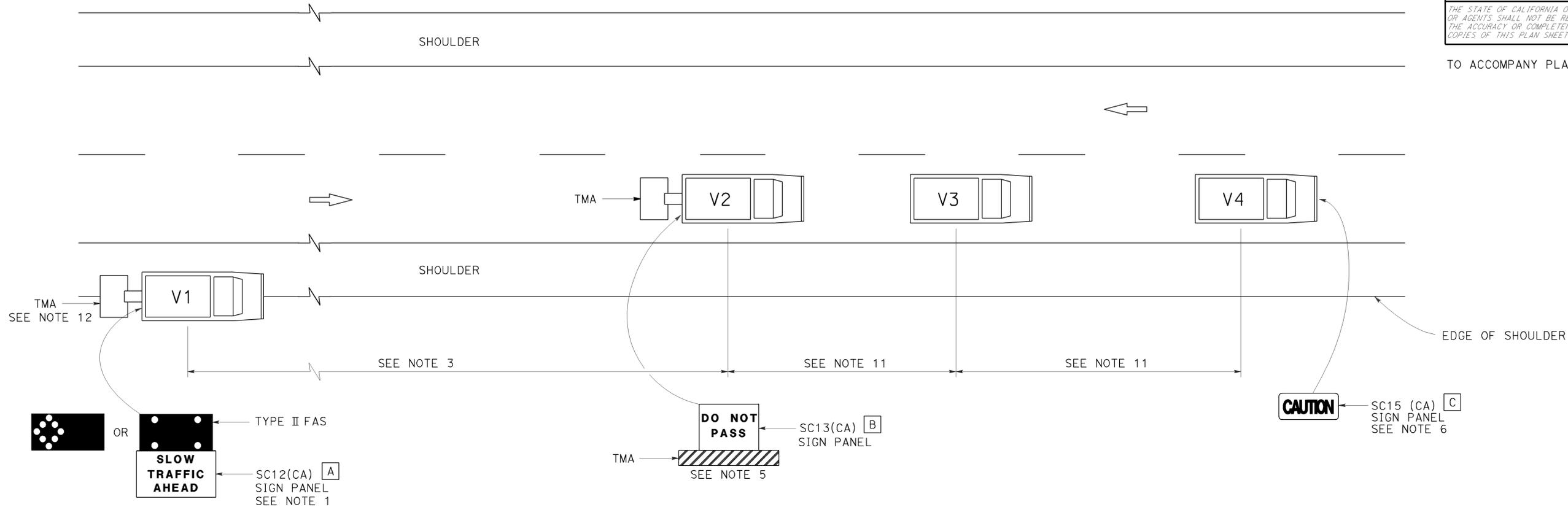
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03, 04	Sac, Sol, Yof	5, 12	Var	22	35


 REGISTERED CIVIL ENGINEER
 April 19, 2013
 PLANS APPROVAL DATE



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TO ACCOMPANY PLANS DATED 2-24-14



NOTES:

1. Either a changeable message sign or a SC12(CA) "SLOW TRAFFIC AHEAD" sign shall be mounted on the rear of sign vehicle V1. The changeable message sign shall be sequenced to show the "CAUTION" message first, follow by the "SLOW TRAFFIC AHEAD" message. A Type II flashing arrow sign may be used with the SC12(CA) sign panel.
2. Sign vehicle V1 should be positioned where highly visible when shoulders are not available.
3. If traffic queues develop, sign vehicle V1 should be positioned upstream from the end of queue.
4. 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.
5. Shadow vehicle 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.
6. The sign panel shown shall be mounted on the front of sign vehicle V4, facing opposing traffic.

7. All vehicles shall be equipped with flashing or rotating amber lights.
8. 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.
9. 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.
10. This plan shall not be used where workers would be on foot in the work area. Use a stationary type lane closure (Revised Standard Plan T13) for this condition.
11. Minimize spacing between vehicles V2 and V3 and vehicles V3 and V4 to deter road users from driving in between them.
12. 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.

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
-  FLASHING ARROW SIGN (FAS) IN ALTERNATING DIAMOND CAUTION

SIGN PANEL SIZE (Min)

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

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
 FOR MOVING LANE CLOSURE
 ON TWO LANE HIGHWAYS**
 NO SCALE

RSP T17 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T17 DATED MAY 20, 2011 - PAGE 245 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T17

2010 REVISED STANDARD PLAN RSP T17

INDEX TO PLANS

SHEET NO.	TITLE
1	GENERAL PLAN NO.1
2	JOINT SEAL DETAILS NO.1
3	GENERAL PLAN NO.2
4	JOINT SEAL DETAILS NO.2
5	JOINT SEAL DETAILS NO.3
6	GENERAL PLAN NO.3
7	ABUTMENT DETAILS NO.1
8	ABUTMENT DETAILS NO.2
9	DRAIN DETAILS NO.1
10	DRAIN DETAILS NO.2
11	DRAIN DETAILS NO.3
12	STRUCTURE APPROACH TYPE R(30D)
13	QUANTITIES

STANDARD PLANS DATED MAY 2010

SHEET NO.	TITLE
A10A	ACRONYMS AND ABBREVIATION (SHEET 1 OF 2)
RSP A10B	ACRONYMS AND ABBREVIATION (SHEET 2 OF 2)
B0-3	BRIDGE DETAILS
B6-21	JOINT SEAL (MAXIMUM MOVEMENT RATING = 2")
A62A	EXCAVATION AND BACKFILL MISCELLANEOUS DETAILS
A62C	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL BRIDGE
P3	JOINTED PLAIN CONCRETE PAVEMENT - NON DOWELED SHOULDER ADDITION / CONSTRUCTION

NOTES: (APPLY TO THIS SHEET ONLY)

- ① See "ROAD PLANS" to conform to new deck or approach slab grades.
- * Indicates area includes both approach slabs.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03, 04	Sac, Sol, Yolo	5, 12	Var	23	35

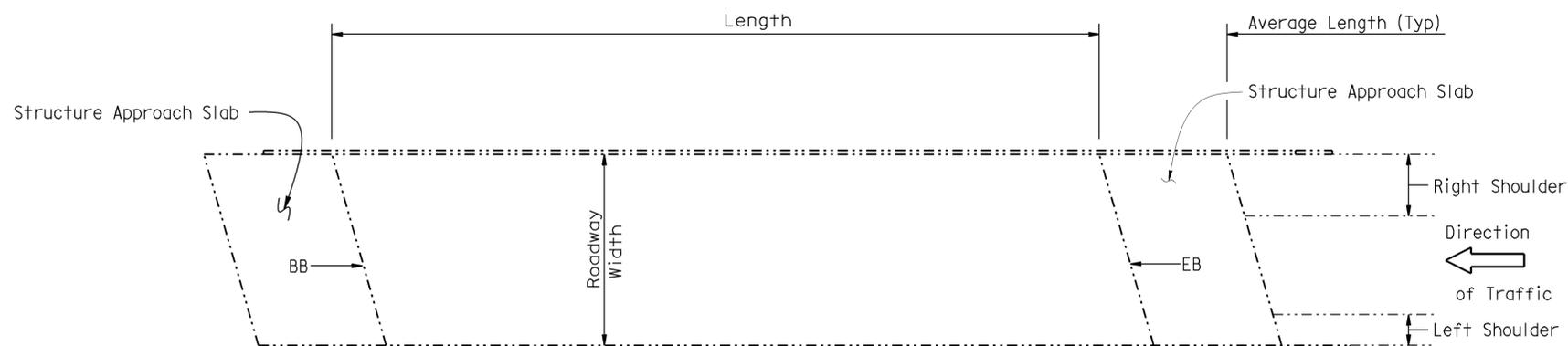
REGISTERED CIVIL ENGINEER DATE 10-18-13

PLANS APPROVAL DATE 2-24-14

Diosdada Acoba No. 52003 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.

RTE	PM	COUNTY	BRIDGE NAME	BRIDGE NUMBER	LENGTH (LF)	ROADWAY WIDTH (LF)	SHOULDER WIDTH (DIRECTION OF TRAVEL)		CLEAN EXPANSION JOINT (LF)	REMOVE AND REPLACE JOINT SEAL (LF)	PREPARE CONCRETE BRIDGE DECK SURFACE (SF)	TREAT BRIDGE DECK (SF)	FURNISH BRIDGE DECK TREATMENT MATERIAL (LOW ODOR) (GAL)	FURNISH POLYESTER CONCRETE OVERLAY (CF)	PLACE POLYESTER CONCRETE OVERLAY (SF) DEPTH = 3/4" ±	NOTE
							LEFT	RIGHT								
5	R9.41	YOL	COUNTY ROAD 99S OC	22-0150	305.0	40.0	8.0	8.0			SEE GENERAL PLAN NO.3					
5	R23.79	YOL	COUNTY ROAD 8 OC	22-0030	202.0	32.0	4.0	4.0			6464			485	6464	①
5	8.11	SAC	STONE LAKE CREEK	24-0327L	87.8	40.0	6.0	10.0			3512	3512	47			
5	8.11	SAC	STONE LAKE CREEK	24-0327R	87.8	40.0	6.0	10.0			3512	3512	47			
5	15.58	SAC	FREEPORT BLVD OH	24-0296L	554.0	52.0	6.0	10.0	161.6	161.6	32864*			2465*	32864*	①
5	15.58	SAC	FREEPORT BLVD OH	24-0296R	554.0	52.0	6.0	10.0	161.6	161.6	32864*			2465*	32864*	①
5	49.78	SJ	MOKELUMNE RIVER	29-0197L	1234.5	38.5	5.3	9.3			47528	47528	634			
5	49.78	SJ	MOKELUMNE RIVER	29-0197R	1234.5	38.5	5.3	9.3			47528	47528	634			
12	26.4	SOL	SACRAMENTO RIVER (RIO VISTA)	23-0024	2890.3	26.0	1.0	1.0			SEE GENERAL PLAN NO.2					



TYPICAL PLAN

No Scale

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

 DESIGN ENGINEER 10-18-13	DESIGN BY D. Acoba	CHECKED A. Nojourni	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO. Varies	ROUTE 5 & 12 BRIDGES GENERAL PLAN NO.1
	DETAILS BY N. Kelley	CHECKED A. Nojourni	LAYOUT	BY N. Kelley		CHECKED D. Acoba	
	QUANTITIES BY D. Acoba	CHECKED A. Nojourni	SPECIFICATIONS	BY S. Seifert	CHECKED S. Seifert		

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

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

UNIT: 3488 PROJECT NUMBER & PHASE: 0313000026 CONTRACT NO.: 03-4M7001

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
3-13 12-13 1-14	1	13

FILE => 03_4m7001_a_gp.dgn

TIME PLOTTED => 20-FEB-2014 USERNAME => s121116 DATE PLOTTED => 08:26

JOINT SEAL TABLE

BRIDGE NAME	BRIDGE NUMBER	LOCATION	MINIMUM "MR" (INCHES)	APPROXIMATE LENGTH (FEET)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXP JOINT (INCHES)	
SACRAMENTO RIVER (WEST APPROACH) BRIDGE AT RIO VISTA	23-0024	Abut 17	EJ	1/2	27.0	No	9.5
SACRAMENTO RIVER (TRUSS BRIDGE) BRIDGE AT RIO VISTA	23-0024	Abut 1	EJ	1/2	27.0	No	2.5
		Abut 1-a	EJ	1/2	27.0	No	9.5
		Abut 1-b	EJ	1/2	27.0	No	9.5
		Abut 1-c	EJ	1/2	27.0	No	9.5
		Pier 3-a	EJ	1/2	27.0	No	9.5
		Pier 3-b	EJ	1/2	27.0	No	9.5
		Pier 3-c	EJ	1/2	27.0	No	9.5
		Pier 5	EJ	1/2	27.0	No	2.5
		Pier 5-b	EJ	1/2	27.0	No	9.5
		Pier 5-c	EJ	1/2	27.0	No	9.5
		Pier 5-d	EJ	1/2	27.0	No	9.5
		Pier 5-e	EJ	1/2	27.0	No	9.5
		Pier 5-f	EJ	1/2	27.0	No	9.5
		Pier 6	EJ	1/2	27.0	No	2.5
		Pier 7-a	EJ	1.0*	27.0	No	9.5
		Pier 8-a	EJ	1.0*	27.0	No	9.5
		Pier 8-d	EJ	1.0*	27.0	No	9.5
		Pier 10-a	EJ	1.0*	27.0	No	9.5
		Pier 10-d	EJ	1.0*	27.0	No	9.5
		Pier 12-a	EJ	1.0*	27.0	No	9.5
Pier 12-d	EJ	1.0*	27.0	No	9.5		
Abut 14	EB	1/2	27.0	No	2.5		
FREEPORT BLVD OH	24-0296	Abut 1L	BB	2.0	80.8	No	12
		Abut 6L	EB	2.0	80.8	No	12
		Abut 1R	BB	2.0	80.8	No	12
		Abut 6R	EB	2.0	80.8	No	12
COUNTY RD 99S OC	22-0150	Abut 1	BB	1 1/2**	71.6	No	12
		Abut 3	EB	1 1/2**	71.6	No	12
		Abut 1WW	BB	1 1/2**	12.0	No	9
		Abut 3WW	EB	1 1/2**	12.0	No	9

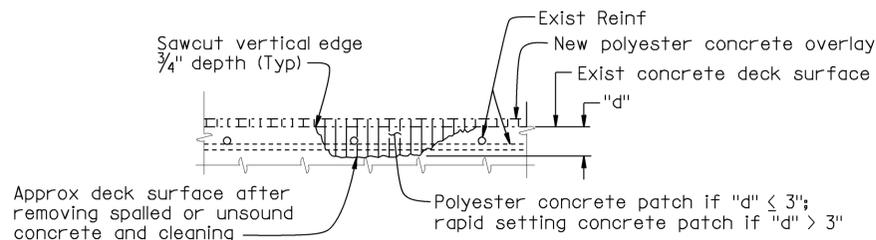
LEGEND:

- BB - Paving Notch at beginning of bridge
- EB - Paving Notch at end of bridge
- EJ - Expansion Joint
- H - Hinge
- WW - Wing wall
- * - Use Type B Seal
- ** - Use Bonded Joint Seal

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

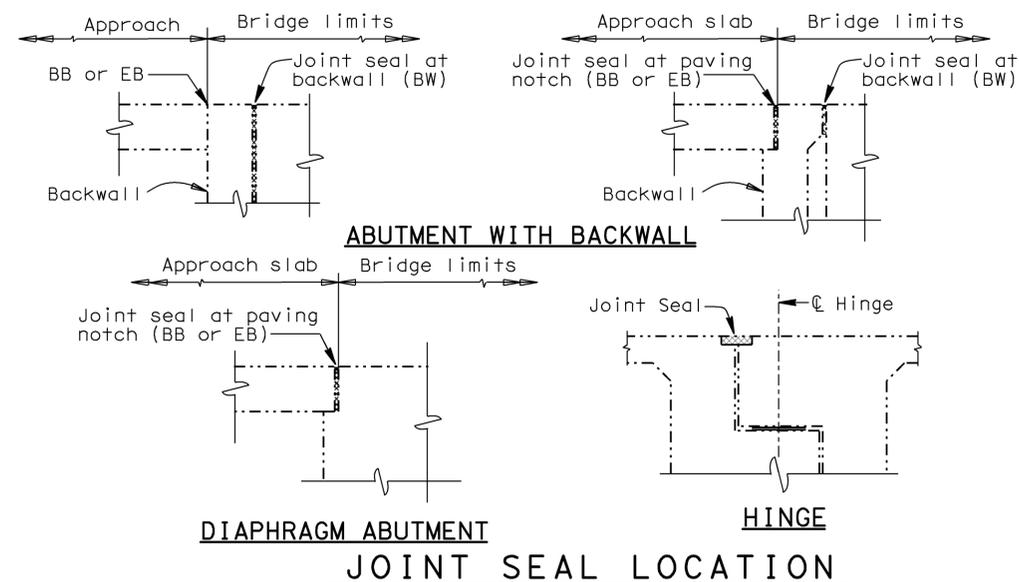
DECK REPAIR TABLE REMOVE UNSOUND CONCRETE AND RAPID SETTING CONCRETE (PATCH)			
BRIDGE NAME	BRIDGE NUMBER	APPROXIMATE AREA DAMAGED (PERCENT)	APPROXIMATE DEPTH (INCHES)
County Road 8 OC	22-0130	1	3
Freeport Boulevard OH	20-0296L	1	3
Freeport Boulevard OH	20-0296R	1	3
Sacramento River Bridge (Lift Span Only)	23-0024	10	3

Locations to be determined by the Engineer.



DECK REPAIR DETAIL - OVERLAY

Note: Locations to be determined by the Engineer.
Reinforcement may be encountered during deck concrete removal.
NO SCALE



The following notes apply to JOINT SEAL TYPE B:

- 1) Seal must satisfy both minimum Movement Rating (MR) and minimum W1 requirements.
- 2) Minimum W1 is the calculated maximum width of the joint based on field measurements. After the joints have been cleaned, minimum W1 is to be calculated by the Engineer.
- 3) W1 shall be the smaller of the values determined as follows:
 - A) 0.85 times the manufacturer's designed minimum uncompressed width of the seal.
 - B) The width of the seal on the third successive test cycle of the pressure deflection test, when compressed to an average pressure of 3 psi.
- 4) Bend Type B joint seal 6" up into curb or rail on the low side of the deck where deck joint matches curb or rail joint.
- 5) For details not shown, see B6-21

The following notes apply to JOINT SEAL TYPE A:

- 1) Install Type A joint seal 3" up into rail on the low side of deck where joint matches curb or rail joint.
- 2) For details not shown, see B6-21

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac, SJ	5, 12	Var	24	35

10-18-13
REGISTERED CIVIL ENGINEER DATE

2-24-14
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.

STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY D. Acoba	CHECKED A. Nojourni	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	Varies	ROUTE 5 & 12 BRIDGES JOINT SEAL DETAILS NO.1
	DETAILS	BY N. Kelley	CHECKED A. Nojourni		POST MILE	Various	
	QUANTITIES	BY D. Acoba	CHECKED A. Nojourni				

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

UNIT: 3488
PROJECT NUMBER & PHASE: 0313000026
CONTRACT NO.: 03-4m7001

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
1-8-13	18	37
1-21-14	2	13

FILE => 03_4m7001_b_js_de11.dgn

TIME PLOTTED => 08:26
DATE PLOTTED => 20-FEB-2014
USERNAME => s121116

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03, Sac, Sol, Yo	SJ	5, 12	Var	25	35

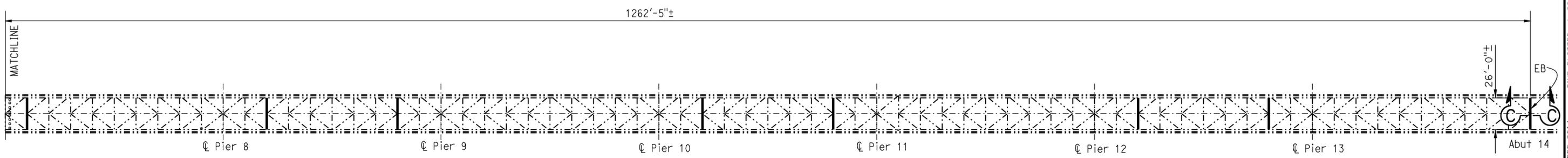
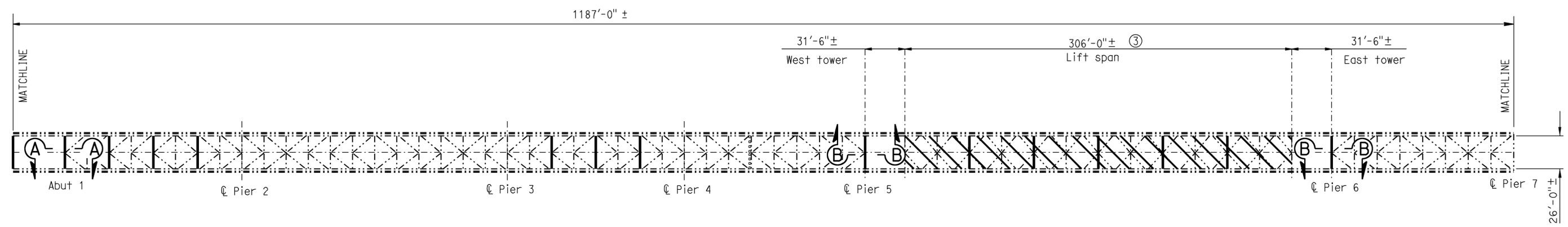
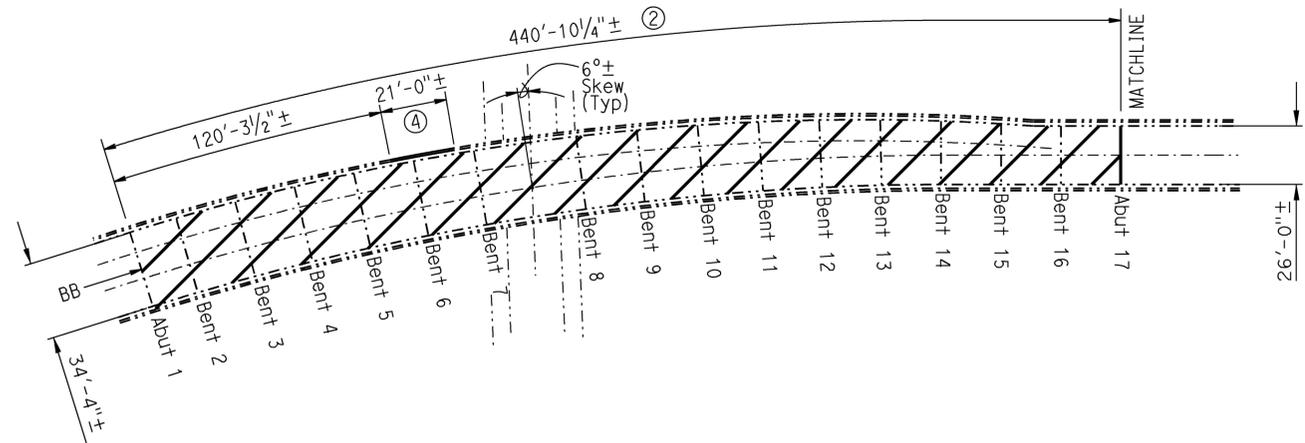
REGISTERED CIVIL ENGINEER	DATE
<i>[Signature]</i>	10-18-13
PLANS APPROVAL DATE	
2-24-14	

REGISTERED PROFESSIONAL ENGINEER
Diosdada Acoba
No. 52003
Exp. 12-31-14
CIVIL
STATE OF CALIFORNIA

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NOTES:

- Indicates existing.
- | Indicates location of existing joint seal removal and placement of new joint seal. For details, see JOINT SEAL DETAILS sheet and B6-21.
- ② Indicates limits of prepare concrete bridge deck and treat bridge deck with high molecular weight methacrylate.
- ③ Indicates limits of prepare concrete bridge deck, treat bridge deck with high molecular weight methacrylate, grind 1/4" ± concrete deck, prepare concrete bridge deck, furnish and place new 1/4" multi-layer polymer concrete overlay. Indicates limits of remove unsound concrete and rapid setting concrete (patch).
- ④ Indicates limits of remove steel bridge railing, replace with new steel bridge railing, clean and paint structural steel. For details, see "STEEL RAILING DETAILS" on "JOINT SEAL DETAILS NO.3" sheet.

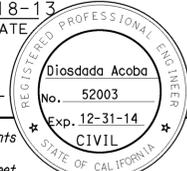


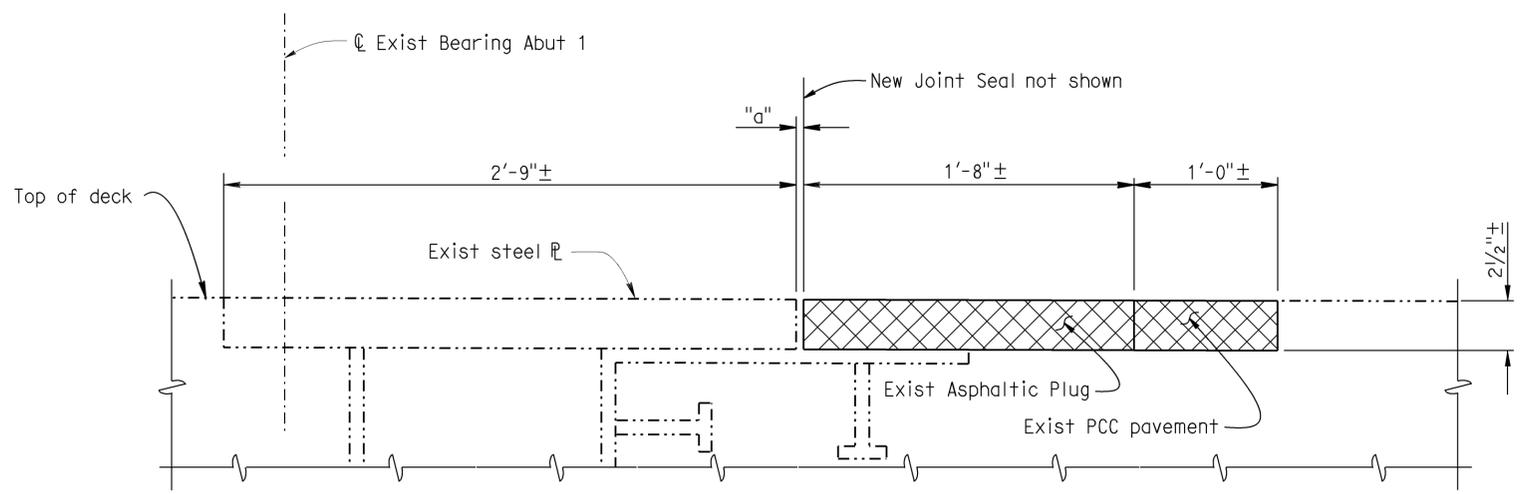
SACRAMENTO RIVER BRIDGE AT RIO VISTA

BR. NO. 23-0024, ROUTE 12, SOL, PM 42.5
1"=40'

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

<i>[Signature]</i> DESIGN ENGINEER	DESIGN BY D. Acoba	CHECKED A. Nojumi	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	ROUTE 5 & 12 BRIDGES GENERAL PLAN NO.2
	DETAILS BY N. Kelley	CHECKED A. Nojumi	LAYOUT	CHECKED D. Acoba		Varies	
	QUANTITIES BY D. Acoba	CHECKED A. Nojumi	SPECIFICATIONS	CHECKED S. Seifert		POST MILE	
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3488 PROJECT NUMBER & PHASE: 0313000026	CONTRACT NO.: 03-4M7001	DISREGARD PRINTS BEARING EARLIER REVISION DATES
						REVISION DATES	SHEET 3 OF 13

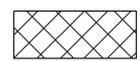
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03, 04	Sac, Sol, Yo	5, 12	Var	26	35
REGISTERED CIVIL ENGINEER			DATE	10-18-13	
PLANS APPROVAL DATE			2-24-14		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					



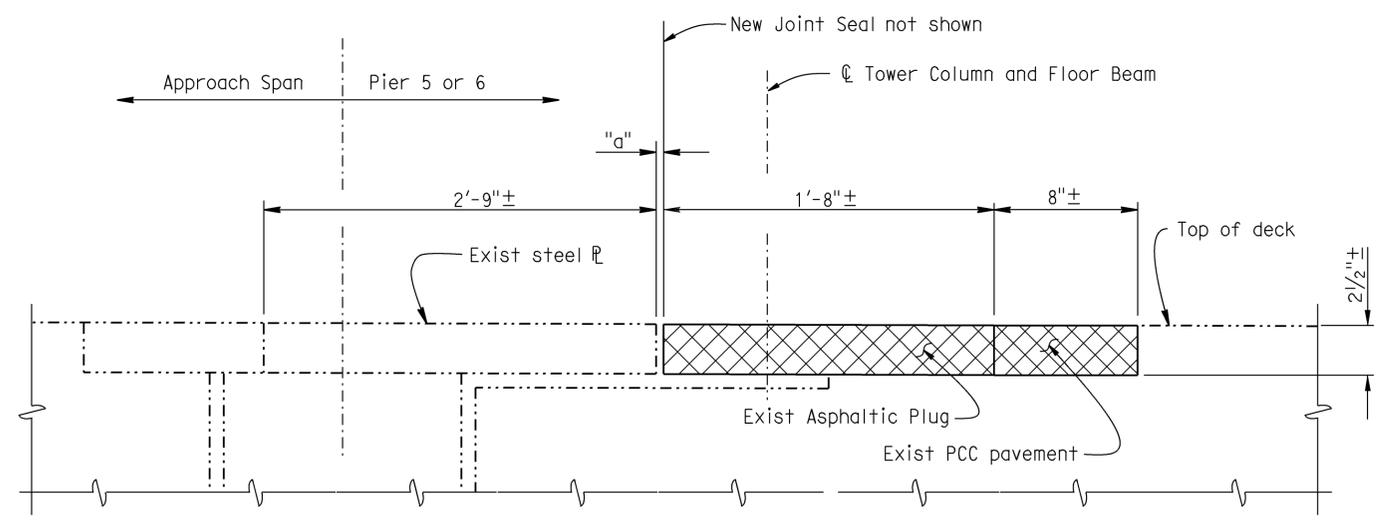
SECTION A-A @ ABUTMENT 1
NO SCALE

NOTES:

----- Indicates existing.

 Indicates limits of remove existing 2 1/2"± asphaltic plug joint seal and concrete expansion dam, prepare bridge deck, furnish and place 2 1/2"± polyester concrete overlay.

"a" Reconstructed gap width as determined by the Engineer.



SECTION B-B @ PIERS 5 & 6
NO SCALE

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

DESIGN	BY D. Acoba	CHECKED A. Nojourni
DETAILS	BY N. Kelley	CHECKED A. Nojourni
QUANTITIES	BY D. Acoba	CHECKED A. Nojourni

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	Varies	ROUTE 5 & 12 BRIDGES
POST MILE	Various	
JOINT SEAL DETAILS NO.2		

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



UNIT: 3488
PROJECT NUMBER & PHASE: 0313000026

CONTRACT NO.: 03-4m7001

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
3-8-13 2-19-14 12-8-13 1-24-14	4	13

FILE => 03_4m7001_d_js_de12.dgn

USERNAME => s121116 DATE PLOTTED => 20-FEB-2014 TIME PLOTTED => 08:28

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sacramento	5, 12	Var	27	35

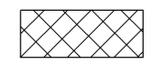
REGISTERED CIVIL ENGINEER	DATE
<i>Diosdada Acoba</i>	10-18-13
PLANS APPROVAL DATE	
2-24-14	

No.	Exp.
52003	12-31-14

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NOTES: (APPLY TO THIS SHEET ONLY)

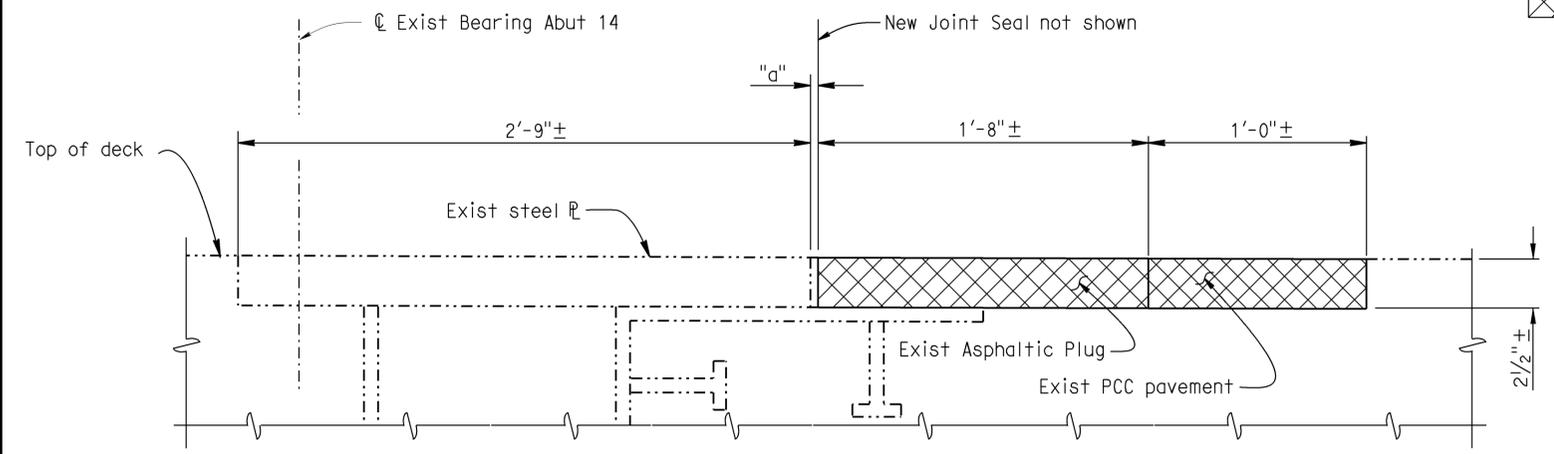
----- Indicates existing.



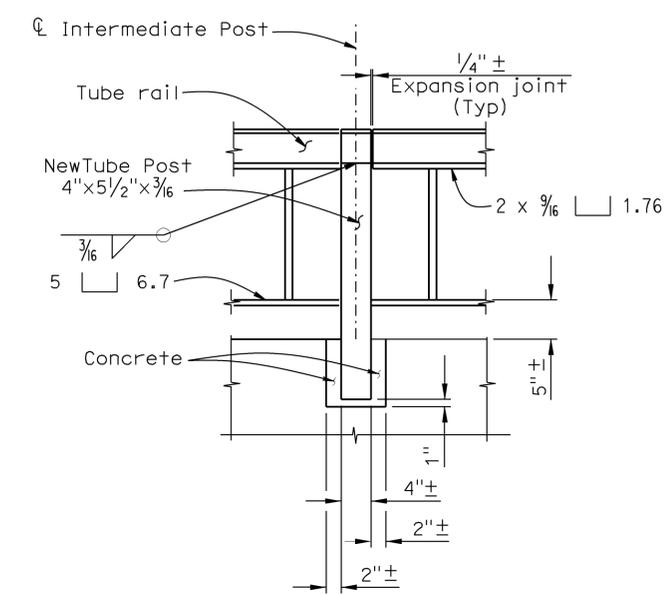
Indicates limits of remove existing 2 1/2"± asphaltic plug joint seal and concrete expansion dam, prepare bridge deck, furnish and place 2 1/2"± polyester concrete overlay.

"a" Reconstructed gap width as determined by the Engineer.

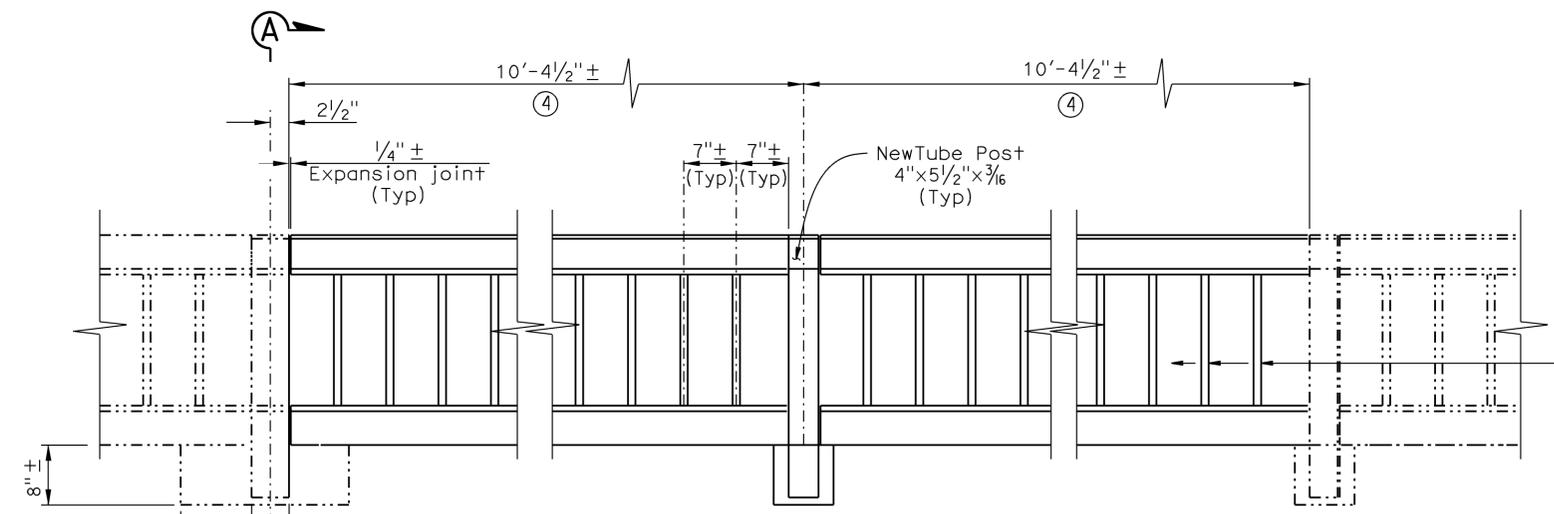
④ Indicates limits of remove steel bridge railing, replace with new steel bridge railing, clean and paint structural steel. For details, see "STEEL RAILING DETAILS" on "JOINT SEAL DETAILS NO.3" sheet.



SECTION C-C @ ABUTMENT 14
NO SCALE

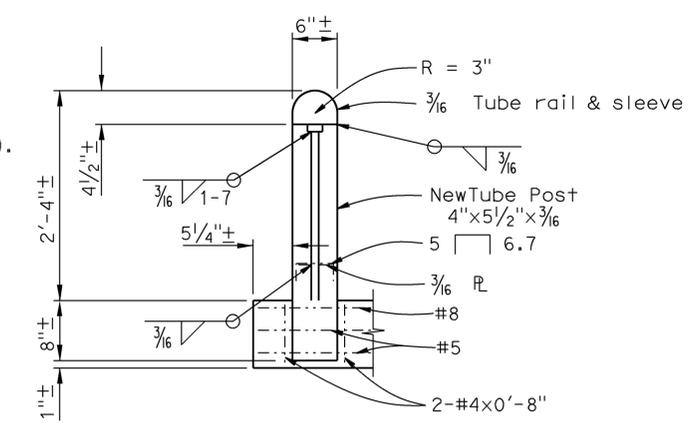


INTERMEDIATE POST
1"=1'-0"



STEEL RAILING DETAIL
1"=1'-0"

1" round cornered square baluster bars or 1" square No 16 gauge tubular sections. Match existing balluster (TYP).



SECTION A-A
1"=1'-0"

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

DESIGN	BY D. Acoba	CHECKED A. Nojourni
DETAILS	BY N. Kelley	CHECKED A. Nojourni
QUANTITIES	BY D. Acoba	CHECKED A. Nojourni

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	Varies	ROUTE 5 & 12 BRIDGES
POST MILE	Various	
JOINT SEAL DETAILS NO.3		

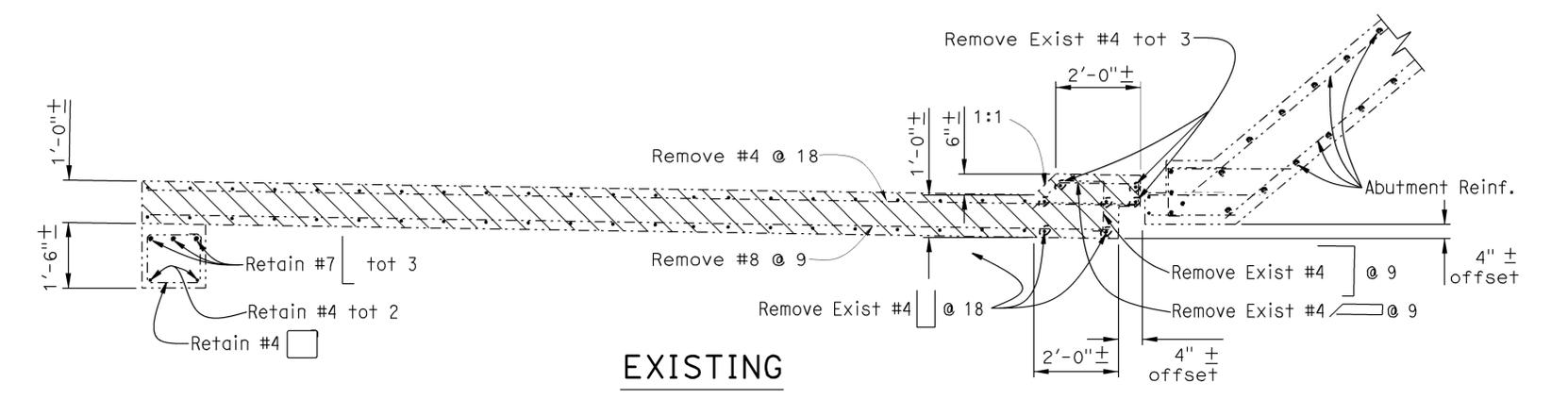
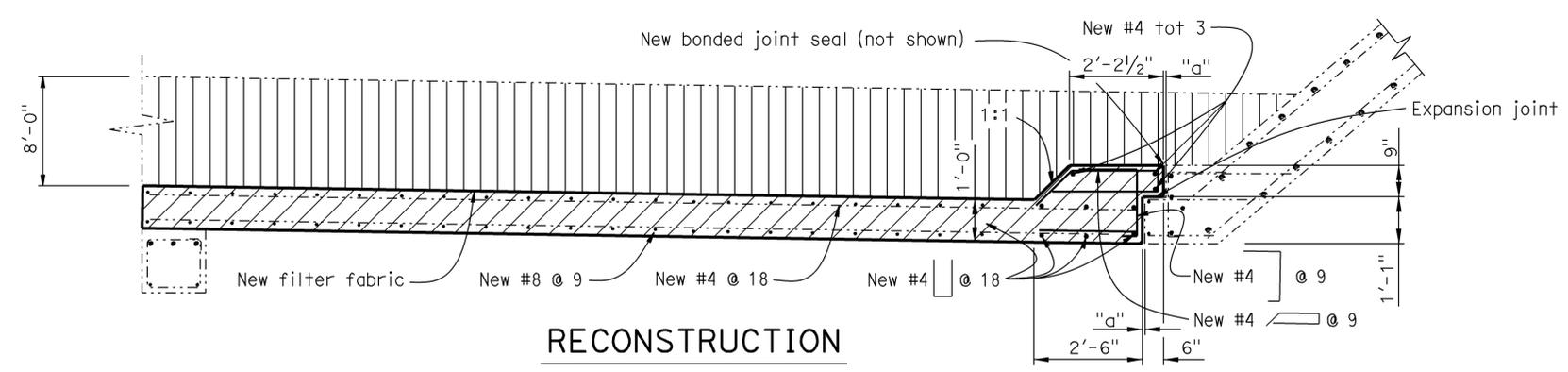
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sacramento	5, 12	Var	29	35

REGISTERED CIVIL ENGINEER DATE 10-18-13

PLANS APPROVAL DATE 2-24-14

Diosdada Acoba
No. 52003
Exp. 12-31-14
CIVIL
STATE OF CALIFORNIA

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- NOTES: (APPLY TO THIS SHEET ONLY)
- Indicates existing.
 - Indicates limits of remove existing concrete.
 - Indicates limits of new structure concrete.
 - Indicates limits of new structure excavation and backfill.
 - ① Indicates limits of reconstruct Concrete Barrier Type 9-11.

"a" Reconstructed gap width as determined by the Engineer

**GENERAL NOTES
LOAD FACTOR DESIGN**

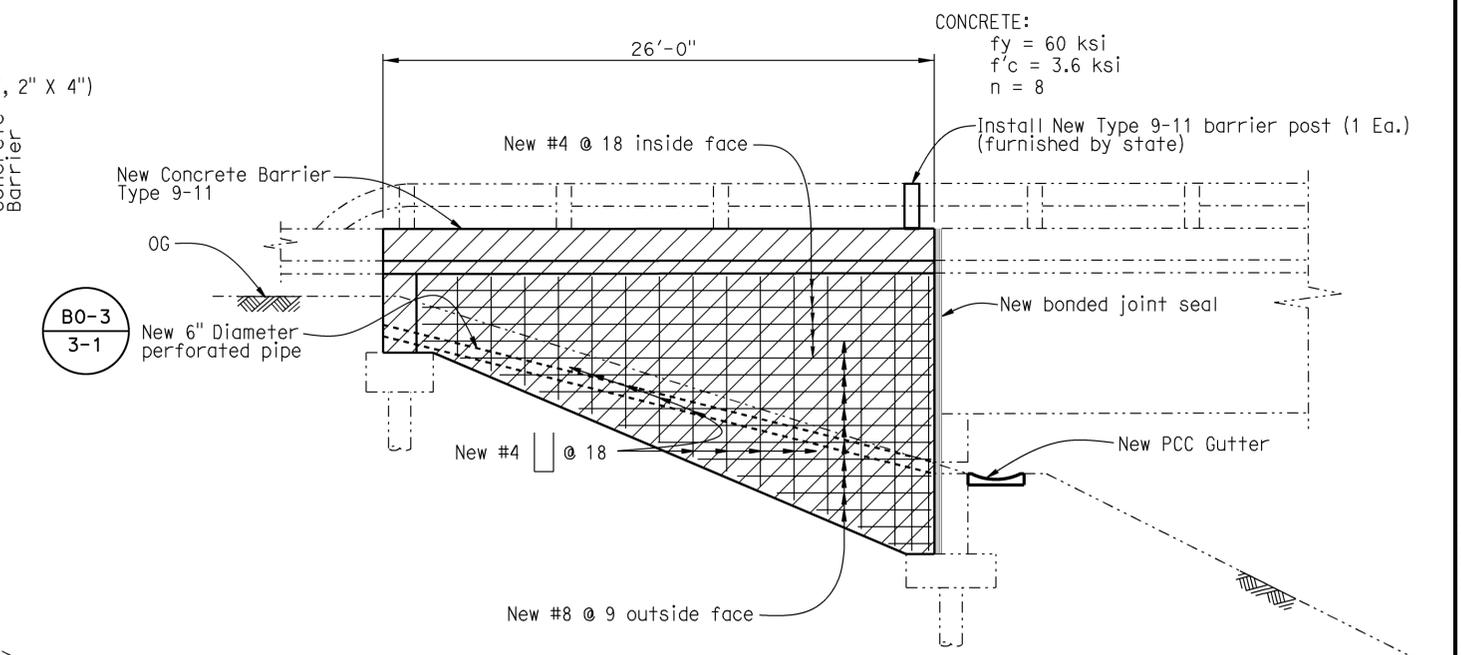
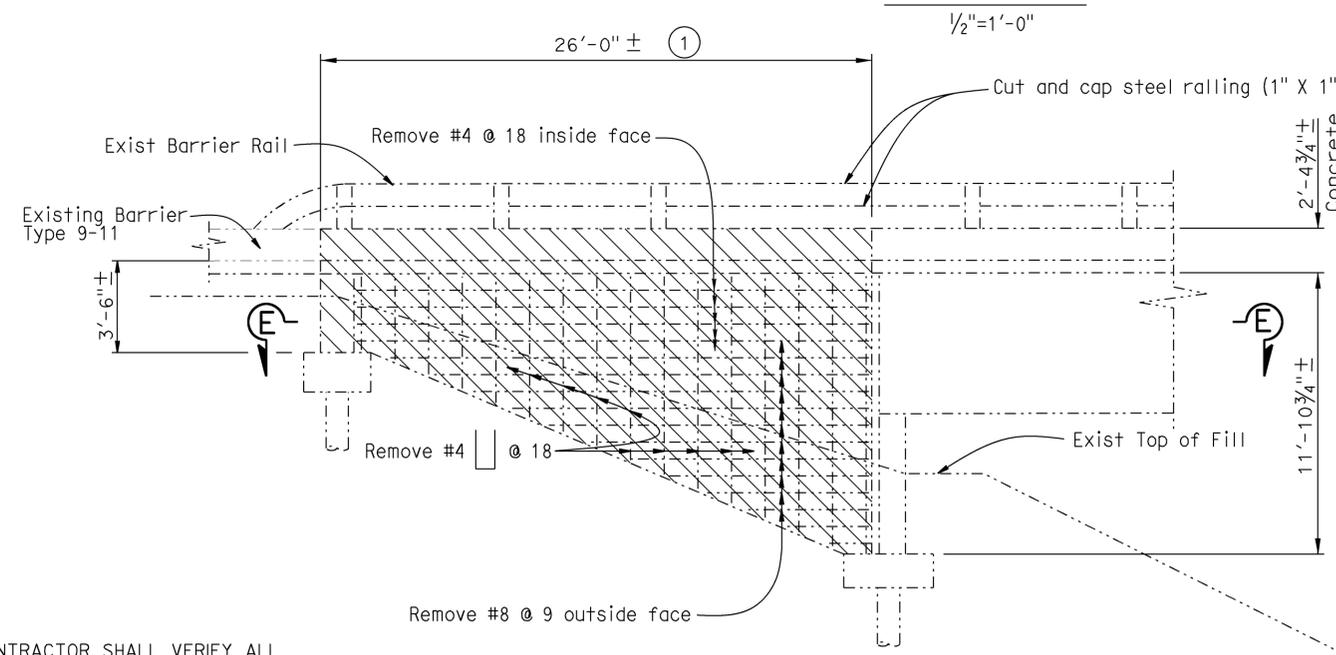
DESIGN:
Bridge Design Specifications ('96 by caltrans)

DEAD LOAD:
Includes 35 psf for future wearing surface

LIVE LOADING:
HS20-44 and permit design load.

CONCRETE:
f_y = 60 ksi
f'_c = 3.6 ksi
n = 8

Install New Type 9-11 barrier post (1 Ea.) (furnished by state)



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

EXISTING

ELEVATION D-D

RECONSTRUCTION

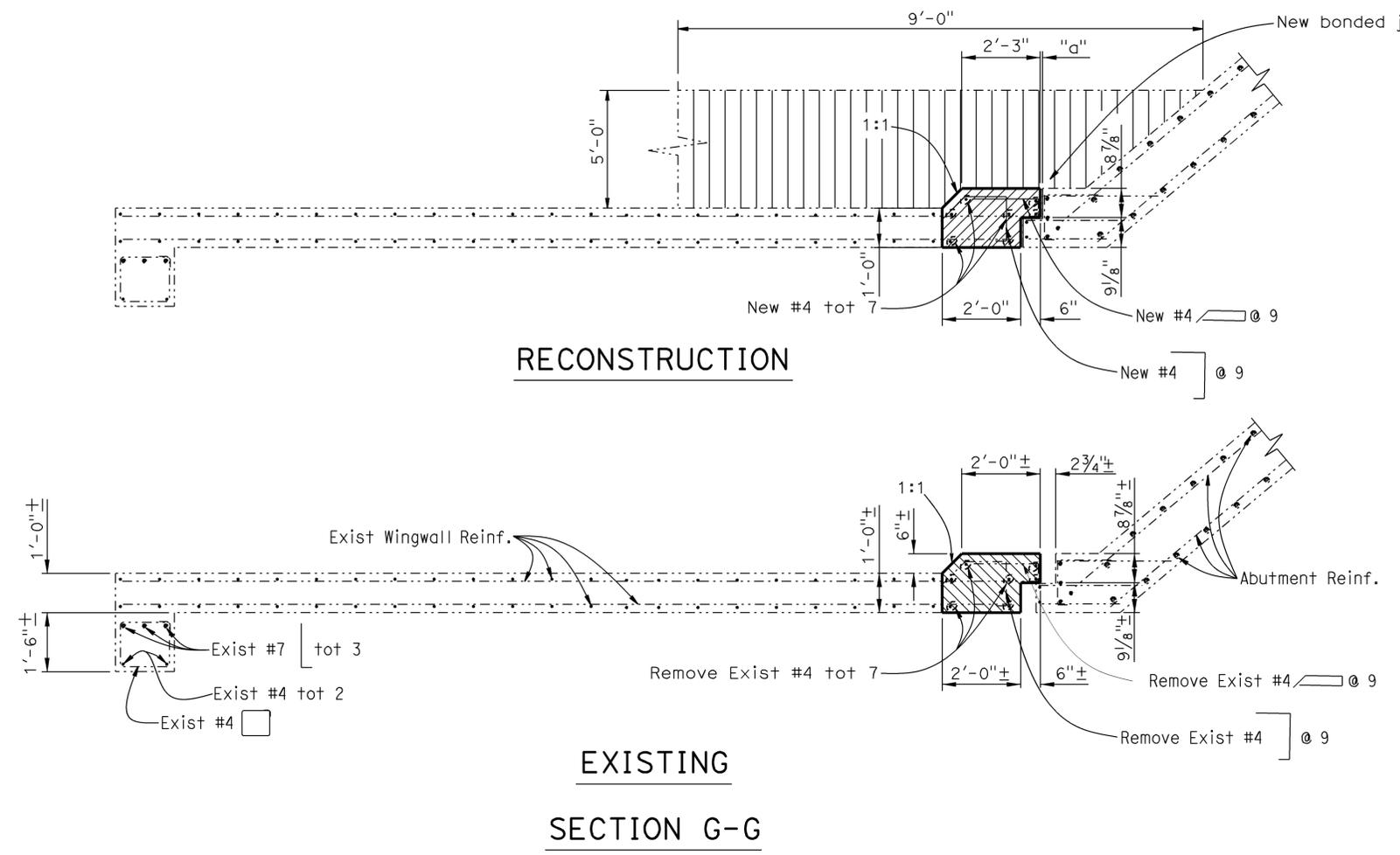
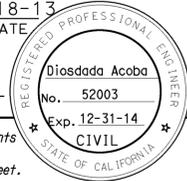
DESIGN	BY D. Acoba	CHECKED A. Nojourni
DETAILS	BY N. Kelley	CHECKED A. Nojourni
QUANTITIES	BY D. Acoba	CHECKED A. Nojourni

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

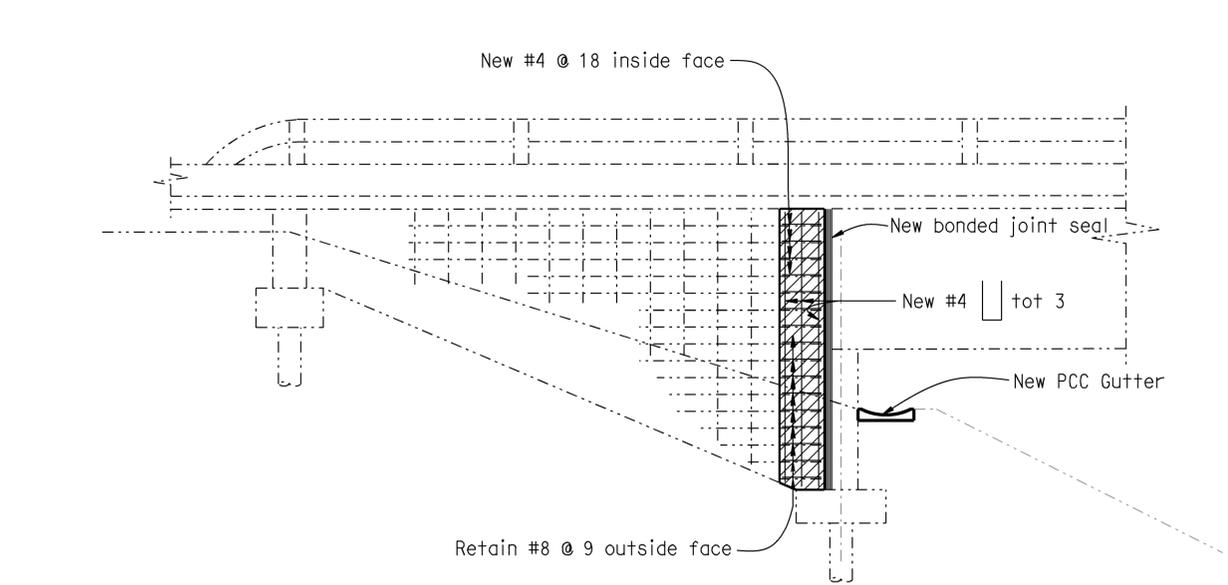
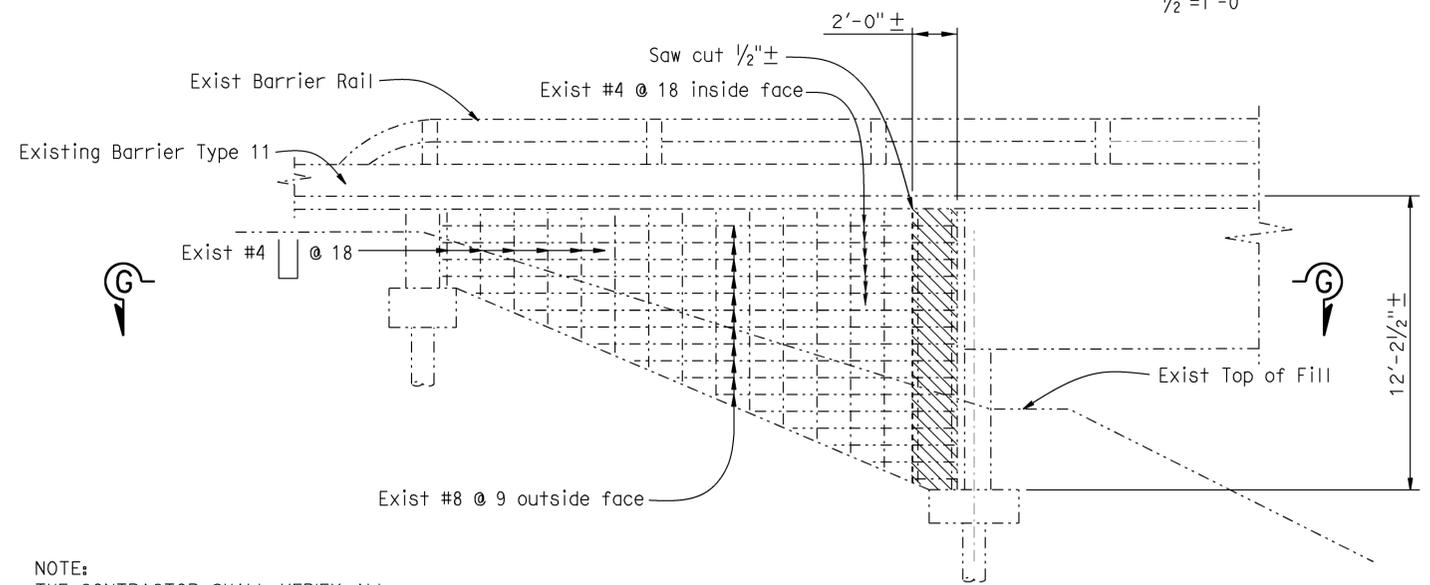
DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	Varies	ROUTE 5 & 12 BRIDGES
POST MILE	Various	
ABUTMENT DETAILS NO.1		

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sacramento	5, 12	Var	30	35
REGISTERED CIVIL ENGINEER			DATE	10-18-13	
PLANS APPROVAL DATE			2-24-14		
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- NOTES: (APPLY TO THIS SHEET ONLY)
- Indicates existing.
 - Indicates limits of remove existing concrete.
 - Indicates limits of new structure concrete.
 - Indicates limits of new structure excavation and backfill, and limits of replace concrete sidewalk.
 - "a" Reconstructed gap width as determined by the Engineer.



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

EXISTING

ELEVATION F-F
1/4"=1'-0"

RECONSTRUCTION

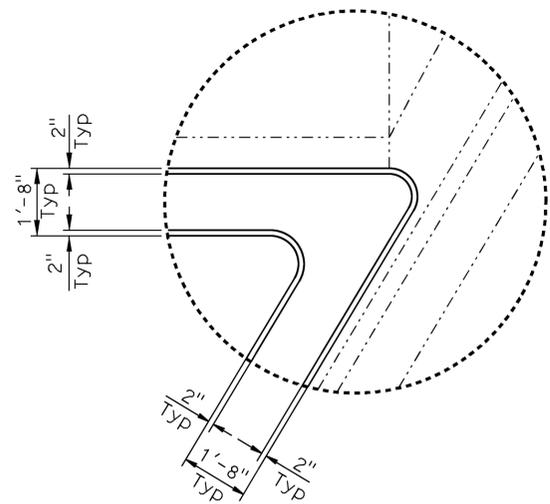
DESIGN	BY D. Acoba	CHECKED A. Nojoumi
DETAILS	BY N. Kelley	CHECKED A. Nojoumi
QUANTITIES	BY D. Acoba	CHECKED A. Nojoumi

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

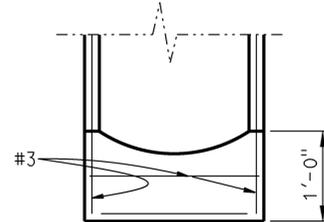
BRIDGE NO.	Varies
POST MILE	Various

ROUTE 5 & 12 BRIDGES
ABUTMENT DETAILS NO.2

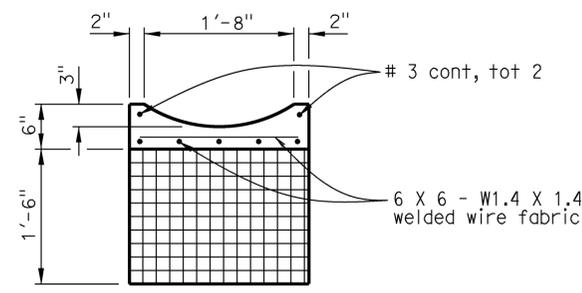
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sacramento	5, 12	Var	31	35
REGISTERED CIVIL ENGINEER			DATE	10-18-13	
PLANS APPROVAL DATE			2-24-14		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.			REGISTERED PROFESSIONAL ENGINEER Diosdada Acoba No. 52003 Exp. 12-31-14 CIVIL STATE OF CALIFORNIA		



DETAIL A
3/8" = 1'-0"



SECTION K-K
1" = 1'-0"



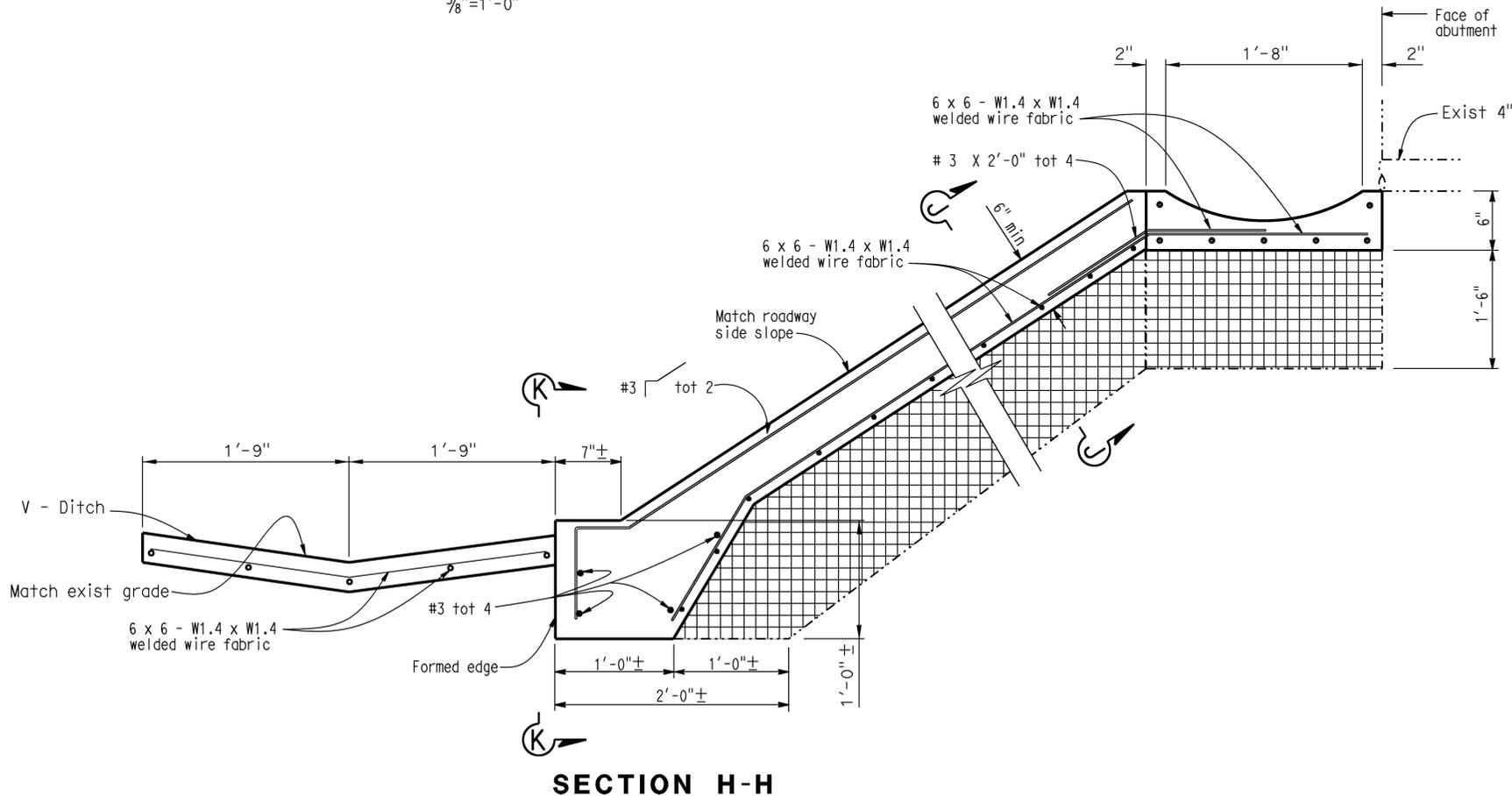
SECTION J-J
1" = 1'-0"

- NOTES:
- Indicates existing.
 - [Hatched Box] Indicates limits of structure excavation.
 - [Vertical Line Hatched Box] Indicates limits of structure backfill.

Additional Backfill Abutment 1 only

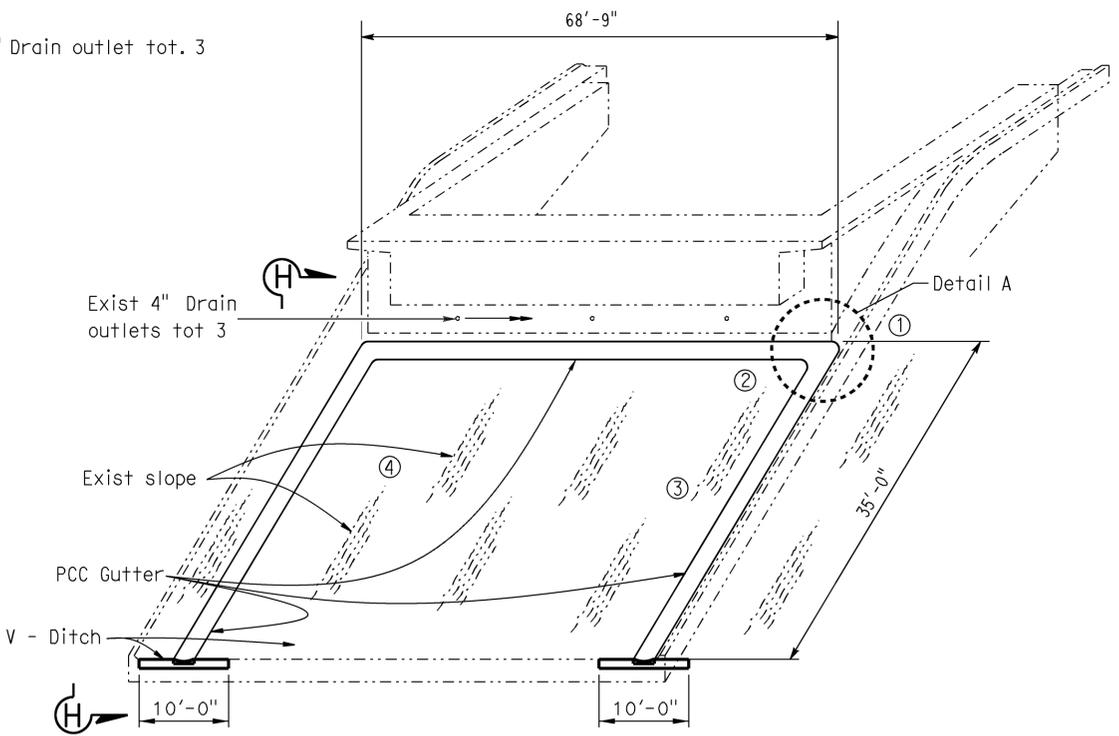
Location	Structure Backfill (CY)
①	7.0
②	3.0
③	5.0
④	9.0

Structure backfill for filling voids.



SECTION H-H

ABUTMENTS 1 & 3
NO SCALE



SLOPE DRAIN DETAIL

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

DESIGN	BY D. Acoba	CHECKED A. Nojoumi
DETAILS	BY N. Kelley	CHECKED A. Nojoumi
QUANTITIES	BY D. Acoba	CHECKED A. Nojoumi

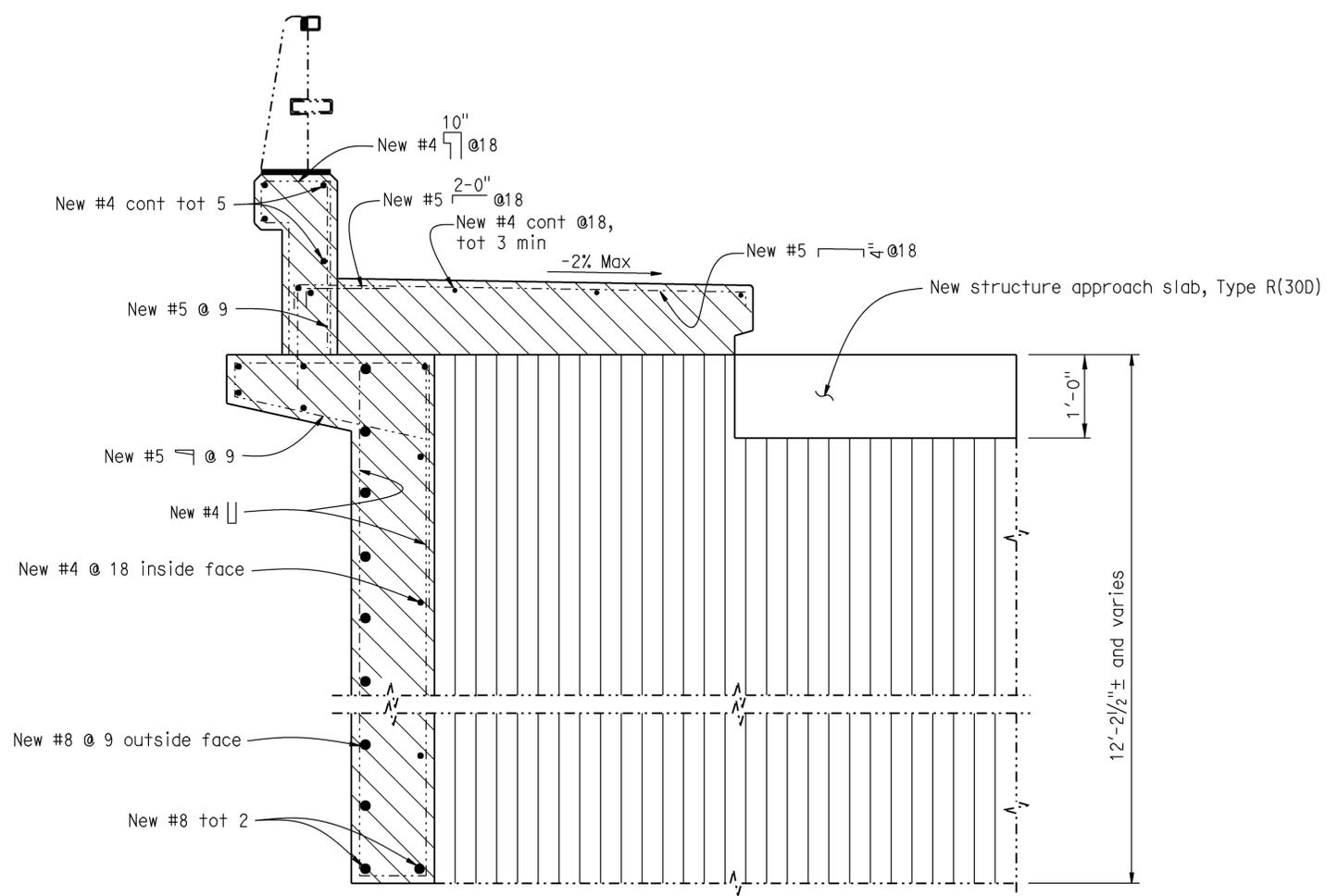
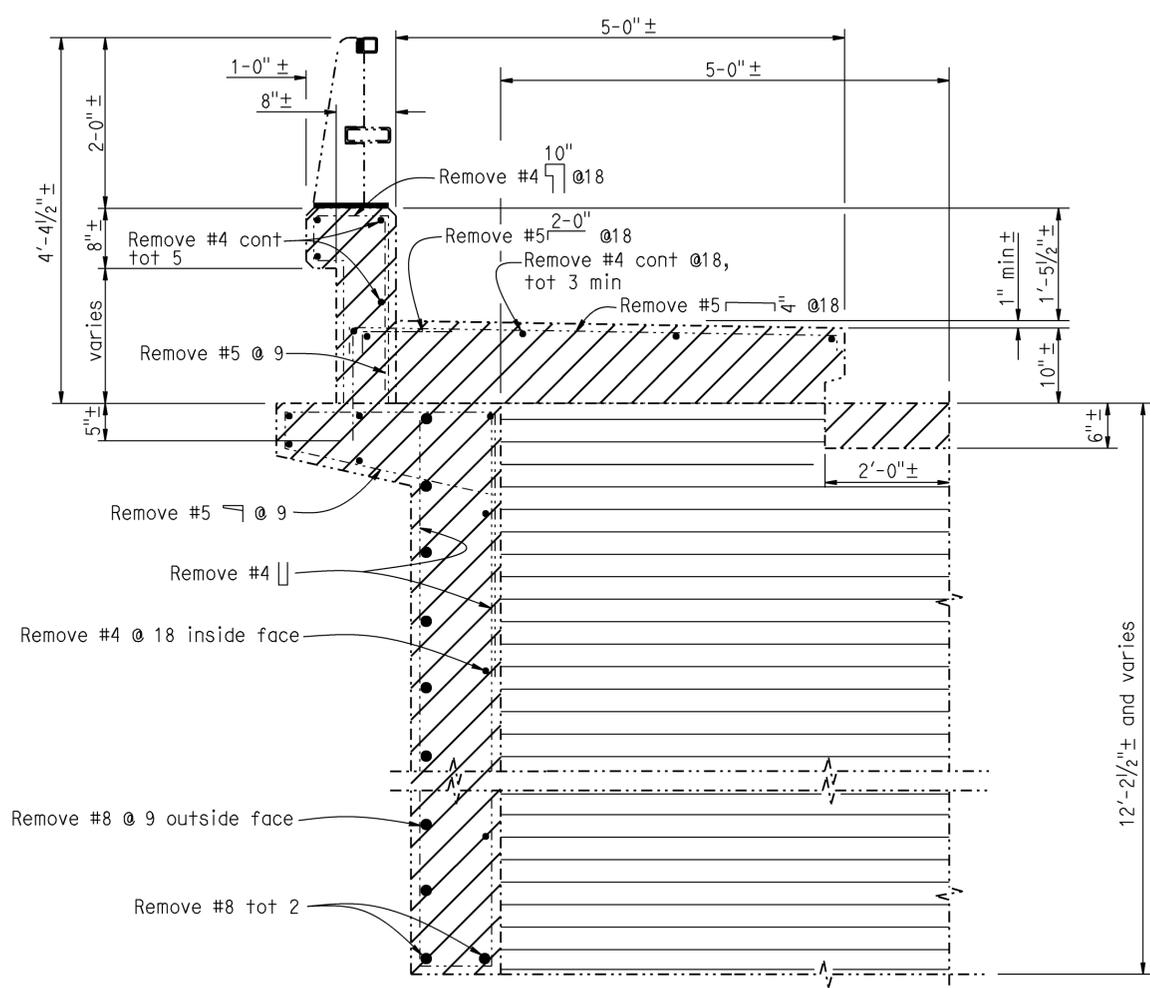
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	Varies
POST MILE	Various

ROUTE 5 & 12 BRIDGES
DRAIN DETAILS NO.1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sacramento	5, 12	Var	32	35
REGISTERED CIVIL ENGINEER			DATE	10-18-13	
PLANS APPROVAL DATE			2-24-14		
REGISTERED PROFESSIONAL ENGINEER Diosdada Acoba No. 52003 Exp. 12-31-14 CIVIL STATE OF CALIFORNIA			<i>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.</i>		

- NOTES: (APPLY TO THIS SHEET ONLY)
- Indicates existing.
 -  Indicates limits of structure excavation. For complete limits see "ABUTMENT DETAIL NO. 1" sheet.
 -  Indicates limits of structure backfill. For complete limits see "ABUTMENT DETAIL NO. 1" sheet.
 -  Indicates limits of remove concrete sidewalk, gutter, barrier and wingwall.
 -  Indicates limits of new concrete sidewalk, barrier and wingwall.



SECTION I-I
1"=1'-0"

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

DESIGN	BY D. Acoba	CHECKED A. Nojoumi
DETAILS	BY N. Kelley	CHECKED A. Nojoumi
QUANTITIES	BY D. Acoba	CHECKED A. Nojoumi

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

BRIDGE NO.	Varies	ROUTE 5 & 12 BRIDGES DRAIN DETAILS NO.2
POST MILE	Various	

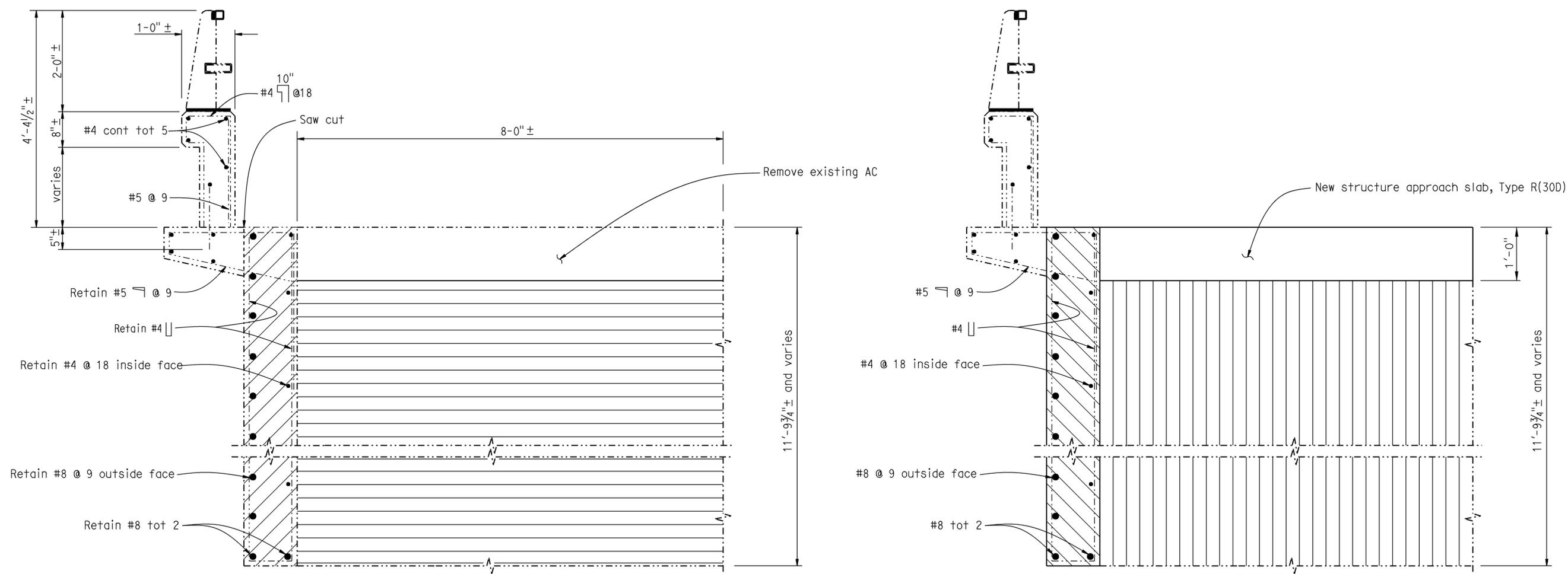
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac, SJ	5, 12	Var	33	35
04	SoL, Yo				

REGISTERED CIVIL ENGINEER	DATE
<i>[Signature]</i>	10-18-13
PLANS APPROVAL DATE	
2-24-14	

REGISTERED PROFESSIONAL ENGINEER
Diosdada Acoba
No. 52003
Exp. 12-31-14
CIVIL
STATE OF CALIFORNIA

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- NOTES: (APPLY TO THIS SHEET ONLY)
- Indicates existing.
 - [Hatched Box] Indicates limits of structure excavation. For complete limits see "ABUTMENT DETAIL NO. 2" sheet.
 - [Vertical Line Box] Indicates limits of structure backfill. For complete limits see "ABUTMENT DETAIL NO. 2" sheet.
 - [Diagonal Line Box] Indicates limits of remove concrete wingwall.
 - [Diagonal Line Box] Indicates limits of new concrete wingwall.



EXISTING

RECONSTRUCTION

SECTION J-J
1"=1'-0"

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

DESIGN	BY D. Acoba	CHECKED A. Nojumi
DETAILS	BY N. Kelley	CHECKED A. Nojumi
QUANTITIES	BY D. Acoba	CHECKED A. Nojumi

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

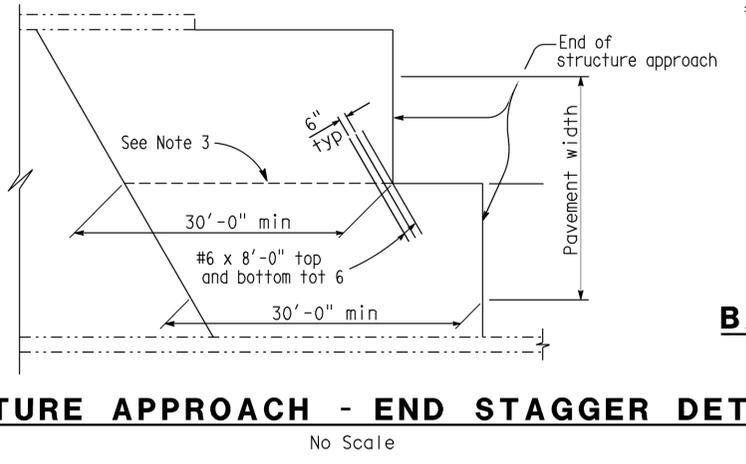
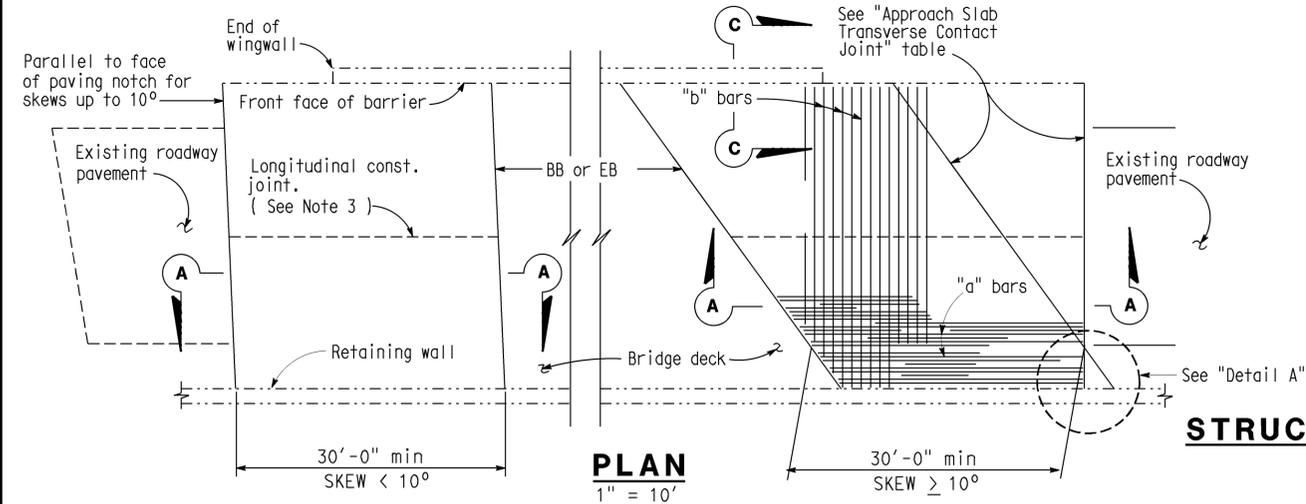
DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	Varies	ROUTE 5 & 12 BRIDGES
POST MILE	Various	
		DRAIN DETAILS NO.3

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sacramento	5, 12	Var	34	35

REGISTERED CIVIL ENGINEER 10-18-13
 2-24-14 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.

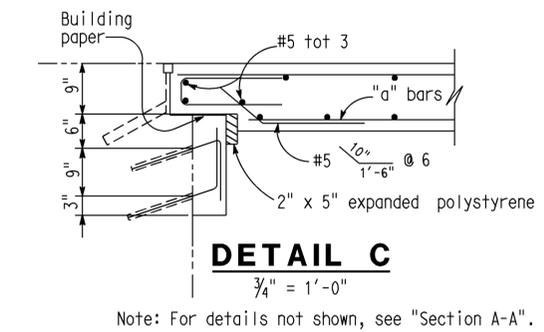
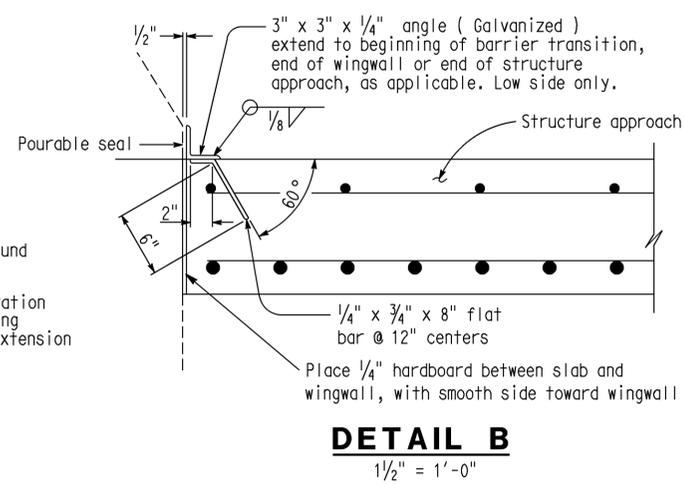
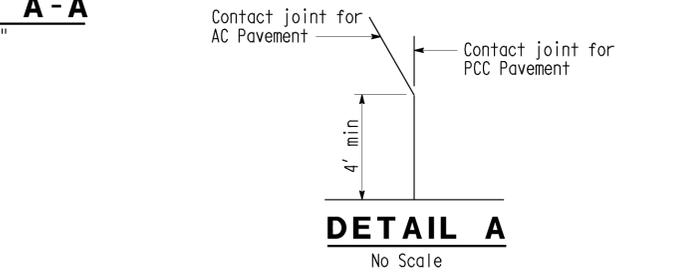
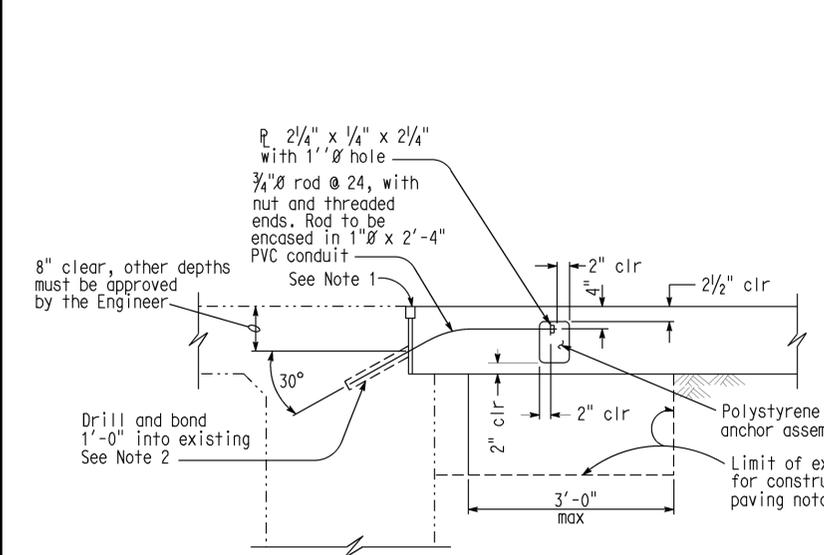
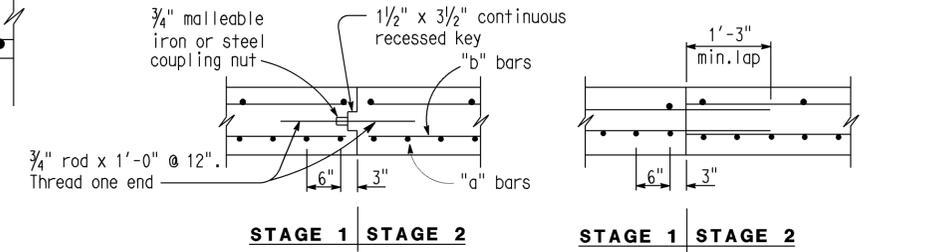
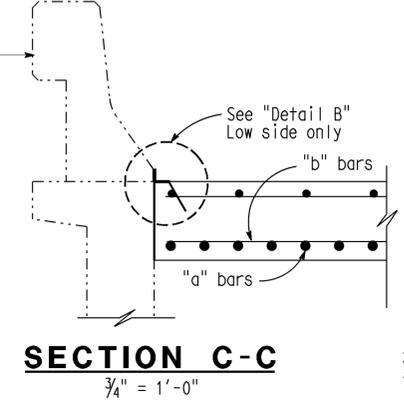
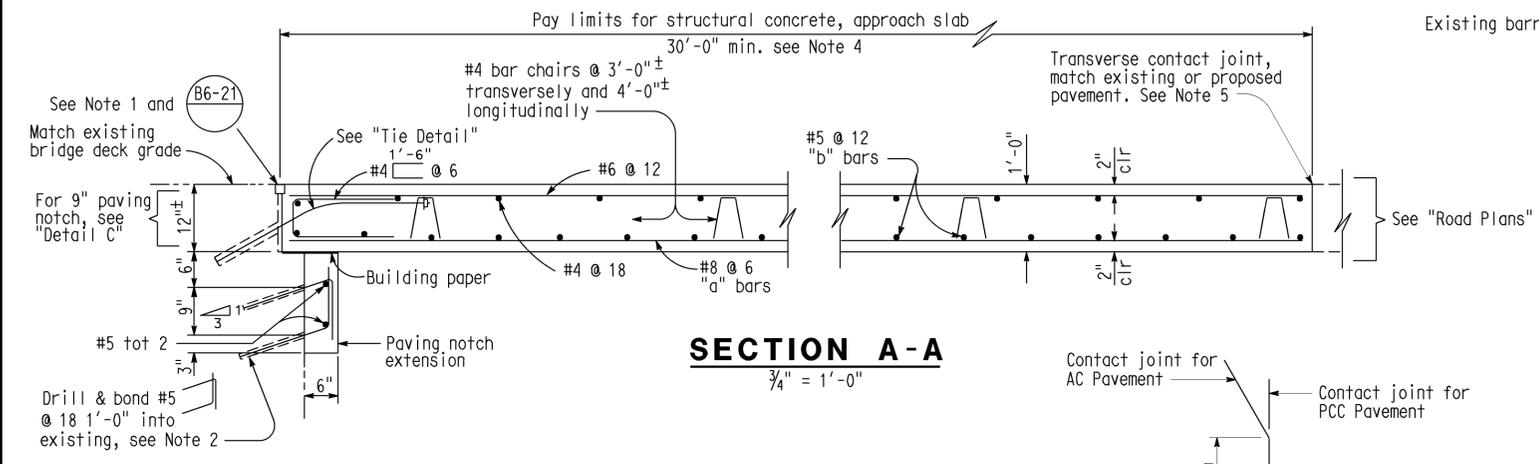
Diosdada Acoba
 No. 52003
 Exp. 12-31-14
 CIVIL ENGINEER
 STATE OF CALIFORNIA



BAR CHAIR DETAIL
 1 1/2" = 1'-0"

APPROACH SLAB TRANSVERSE CONTACT JOINT

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



- NOTES:**
- For details not shown or noted, see Structure Plans. Adjust bar reinforcement to clear a sawcut for sealed joint, when required.
 - Space to avoid existing prestress anchorages and main reinforcement.
 - Longitudinal construction joints, when permitted by the Engineer, shall be located on lane lines.
 - Transverse contact joint shall be a minimum of 5' from an existing or constructed weakened plane joint.
 - For transverse contact joint with new PCC paving refer to Standard Plan P3.

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

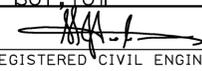
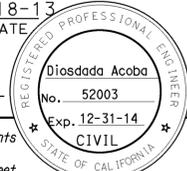
DESIGN	BY D. Acoba	CHECKED A. Nojourni	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	ROUTE 5 & 12 BRIDGES STRUCTURE APPROACH TYPE R(30D)
DETAILS	BY N. Kelley	CHECKED A. Nojourni		Varies	
QUANTITIES	BY D. Acoba	CHECKED A. Nojourni		Various	

UNIT: 3488
 PROJECT NUMBER & PHASE: 0313000026
 CONTRACT NO.: 03-4m7001

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
3-21-13 1-24-14 2-24-14 2-19-14	12	13

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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03, 04	Sac, Sol, Yuba	5, 12	Var	35	35
			10-18-13	REGISTERED CIVIL ENGINEER DATE	
2-24-14 PLANS APPROVAL DATE					
<i>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.</i>					

MOKELUMNE RIVER BRIDGE NO. 29-0197L/R

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	95,056	SOFT
TREAT BRIDGE DECK	95,056	SOFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	1,268	GAL

SACRAMENTO RIVER AT RIO VISTA BRIDGE NO. 23-0024

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM	
RAPID SETTING CONCRETE (PATCH)	199	CF
ADJUST BALANCE CONDITION	LUMP SUM	
REMOVE UNSOUND CONCRETE	199	CF
POLYESTER CONCRETE EXPANSION DAM	69	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	29,210	SOFT
MULTILAYER POLYMER OVERLAY	7,956	SOFT
TREAT BRIDGE DECK	21,254	SOFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	283	GAL
BRIDGE REMOVAL (PORTION), LOCATION A	LUMP SUM	
GRIND EXISTING BRIDGE DECK	7,956	SOFT
CLEAN EXPANSION JOINT	621	LF
JOINT SEAL (MR 1/2")	432	LF
JOINT SEAL (MR 1")	189	LF
STEEL BRIDGE RAILING	21	LF

STONE LAKE CREEK BRIDGE NO. 24-0327L/R

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	7,024	SOFT
TREAT BRIDGE DECK	7,024	SOFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	94	GAL

FREEMPORT BLVD OH BRIDGE NO. 24-0296L/R

QUANTITIES

RAPID SETTING CONCRETE (PATCH)	164	CF
REMOVE UNSOUND CONCRETE	164	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	65,728	SOFT
FURNISH POLYESTER CONCRETE OVERLAY	4,930	CF
PLACE POLYESTER CONCRETE OVERLAY	65,728	SOFT
CLEAN EXPANSION JOINT	323	LF
JOINT SEAL (MR 2")	323	LF

COUNTY ROAD 99S OC BRIDGE NO. 22-0150

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	12,200	SOFT
TREAT BRIDGE DECK	12,200	SOFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	164	GAL
BRIDGE REMOVAL (PORTION), LOCATION B	LUMP SUM	
RECONSTRUCT STEEL RAILING	26	LF
STRUCTURE EXCAVATION (BRIDGE)	78	CY
STRUCTURE BACKFILL (BRIDGE)	78	CY
STRUCTURAL CONCRETE, BRIDGE	11	CY
AGGREGATE BASE (APPROACH SLAB)	9	CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	90	CY
PAVING NOTCH EXTENSION	105	CF
BONDED JOINT SEAL (MR=1.5")	167	LF
BAR REINFORCING STEEL (BRIDGE)	1,471	LB
6" PERFORATED STEEL PIPE UNDERDRAIN	34	LF
SLOPE PAVING (CONCRETE)	12	CY
MINOR CONCRETE (CURB, GUTTER, SIDEWALK AND DRIVEWAY)	6	CY

COUNTY ROAD 8 OC BRIDGE NO. 22-0130

QUANTITIES

RAPID SETTING CONCRETE (PATCH)	16	CF
REMOVE UNSOUND CONCRETE	16	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	6,464	SOFT
FURNISH POLYESTER CONCRETE OVERLAY	485	CF
PLACE POLYESTER CONCRETE OVERLAY	6,464	SOFT

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

DESIGN	BY D. Acoba	CHECKED A. Nojourni
DETAILS	BY N. Kelley	CHECKED A. Nojourni
QUANTITIES	BY D. Acoba	CHECKED A. Nojourni

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

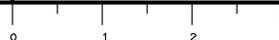
DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	Varies
POST MILE	Various

ROUTE 5 & 12 BRIDGES
QUANTITIES

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



UNIT: 3488
PROJECT NUMBER & PHASE: 0313000026

CONTRACT NO.: 03-4m7001

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
3-21-13 2-19-14 1-22-14 1-28-14	13	13

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