

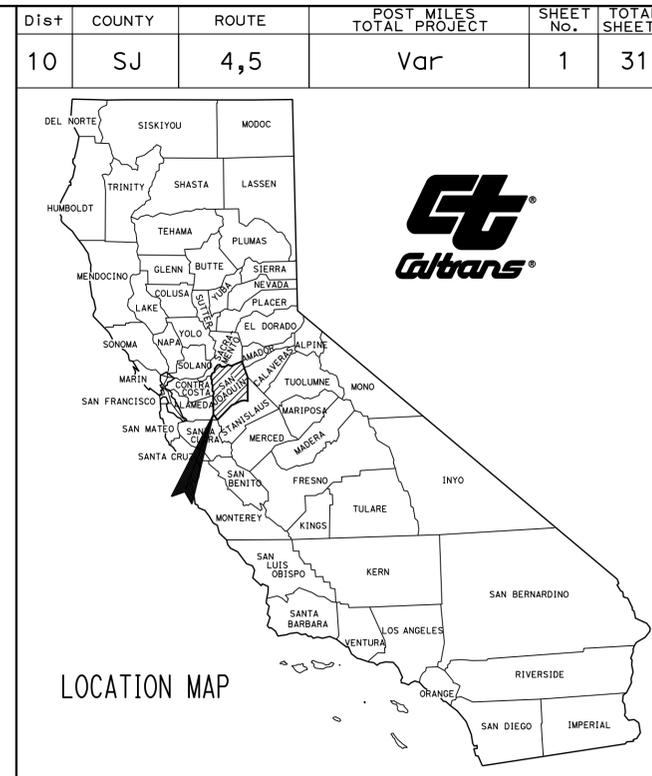
INDEX OF PLANS

SHEET NO.	DESCRIPTION
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2	CONSTRUCTION DETAILS
3	CONSTRUCTION AREA SIGNS
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6	SUMMARY OF QUANTITIES
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STRUCTURE PLANS	
19-31	VARIOUS BRIDGES

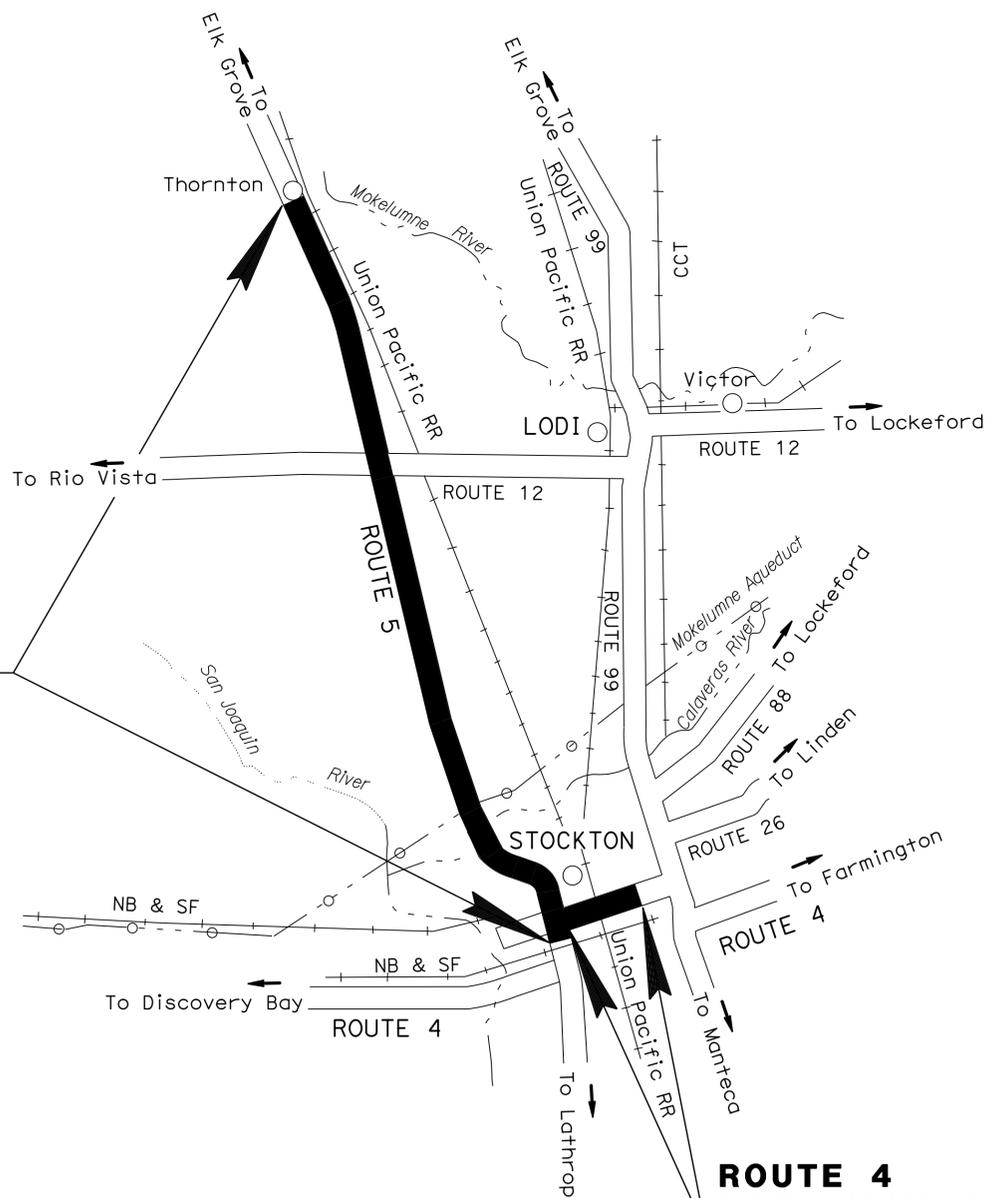
THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN SAN JOAQUIN COUNTY
AT VARIOUS LOCATIONS

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010



ROUTE 5
LOCATIONS OF CONSTRUCTION
Nos. 6 THROUGH 18



ROUTE 4
LOCATIONS OF CONSTRUCTION
Nos. 1 THROUGH 5

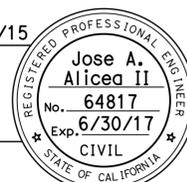
LOCATIONS OF CONSTRUCTION

Loc No.	COUNTY	ROUTE	PM	DESCRIPTION	BRIDGE No.
1	SJ	4	R16.01	ROUTE 4/5 CONNECTOR UC	29-0235R
2	SJ	4	R16.02	ROUTE 4/5 CONNECTOR UC	29-0235L
3	SJ	4	R17.56	AIRPORT WAY UC	29-0300R
4	SJ	4	R18.06	MAIN STREET OC	29-0303
5	SJ	4	R18.52	E STREET OC	29-0304
6	SJ	5	25.87	ROUTE 5/4 CONNECTOR VIADUCT	29-0233H
7	SJ	5	25.99	CHURCH STREET UC	29-0231R
8	SJ	5	26.12	ROUTE 5/4 SEPARATION	29-0232L
9	SJ	5	26.12	ROUTE 5/4 SEPARATION	29-0232R
10	SJ	5	35.30	EIGHT MILE ROAD UC	29-0209L
11	SJ	5	35.30	EIGHT MILE ROAD UC	29-0209R
12	SJ	5	38.06	THORTON ROAD CONNECTOR UC	29-0254L
13	SJ	5	39.55	ROUTE 5/12 SEPARATION	29-0255L
14	SJ	5	41.66	TURNER ROAD UC	29-0245L
15	SJ	5	42.67	WOODBIDGE ROAD UC	29-0249L
16	SJ	5	42.67	WOODBIDGE ROAD UC	29-0249R
17	SJ	5	47.60	WALNUT GROVE ROAD UC	29-0250R
18	SJ	5	47.61	WALNUT GROVE ROAD UC	29-0250L

PROJECT MANAGER
ALVIN MANGINDIN

DESIGN MANAGER
ALVIN MANGINDIN

JA Alicea II 07/22/15
 PROJECT ENGINEER DATE
 REGISTERED CIVIL ENGINEER
 November 2, 2015
 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.	10-1E1004
PROJECT ID	1015000071

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

NO SCALE

DATE PLOTTED => 19-NOV-2015 TIME PLOTTED => 1:34:40

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE

THOA TABADA
 JOSE ALICEA

REVISOR BY
 DATE

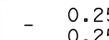
DESIGNED BY
 CHECKED BY

FUNCTIONAL SUPERVISOR
 ALVIN MANGINDIN

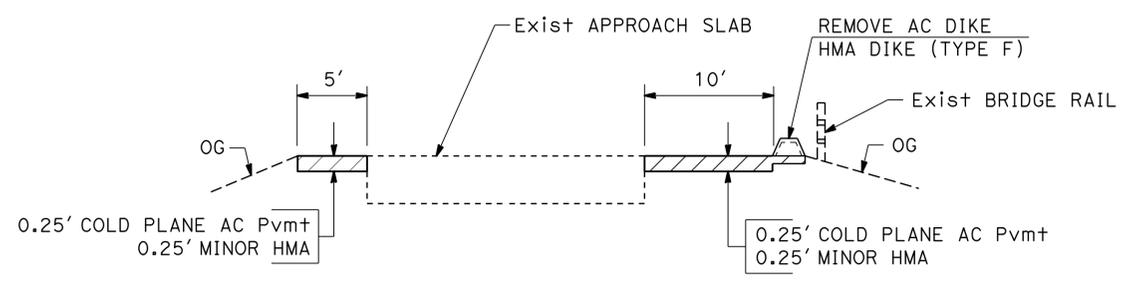
DATE PLOTTED => 19-NOV-2015
 TIME PLOTTED => 13:40

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5	Var	2	31

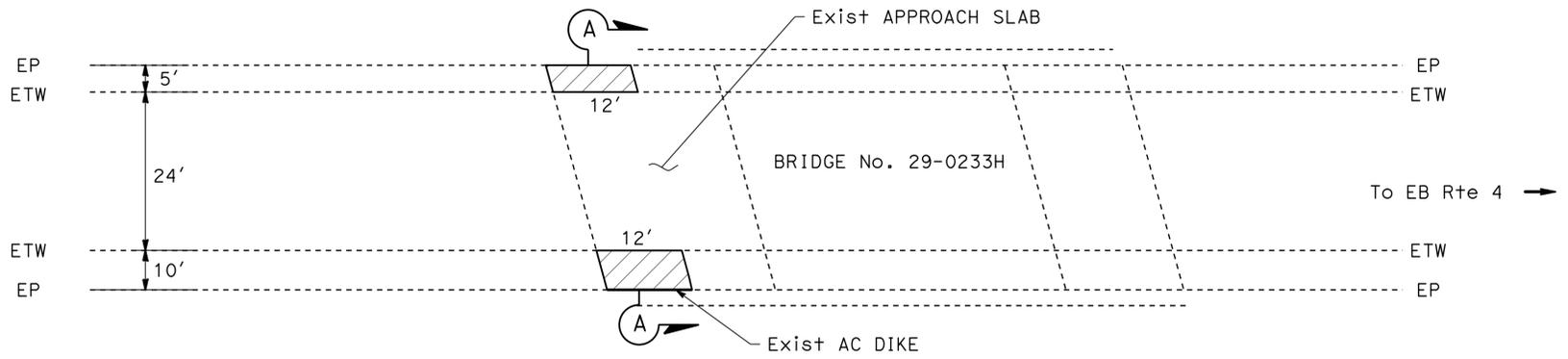
REGISTERED CIVIL ENGINEER DATE 11/13/15
 Jose A. Alicea II
 No. 64817
 Exp. 6/30/17
 CIVIL
 STATE OF CALIFORNIA
 PLANS APPROVAL DATE 11-2-15
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

LEGEND:
 - 0.25' COLD PLANE AC Pvm+
 - 0.25' MINOR HMA

PAVEMENT CLIMATE REGION
 INLAND VALLEY



SECTION A-A



PM 25.87 (Loc 6)
ROUTE 5
REPLACE AC SHOULDER

CONSTRUCTION DETAILS
 NO SCALE
C-1

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN	SIGN CODE	PANEL SIZE	No. OF POSTS AND SIZE	No. OF SIGNS	SIGN MESSAGE
	FEDERAL				
A	G20-1	132" x 84"	2 - 6" x 8"	2	ROAD CONSTRUCTION NEXT 3 MILES
B	G20-1	132" x 84"	2 - 6" x 8"	2	ROAD CONSTRUCTION NEXT 13 MILES
C	W20-1	48" x 48"	1 - 4" x 6"	19	ROAD WORK AHEAD
D	G20-2	36" x 18"	1 - 4" x 4"	12	END ROAD WORK

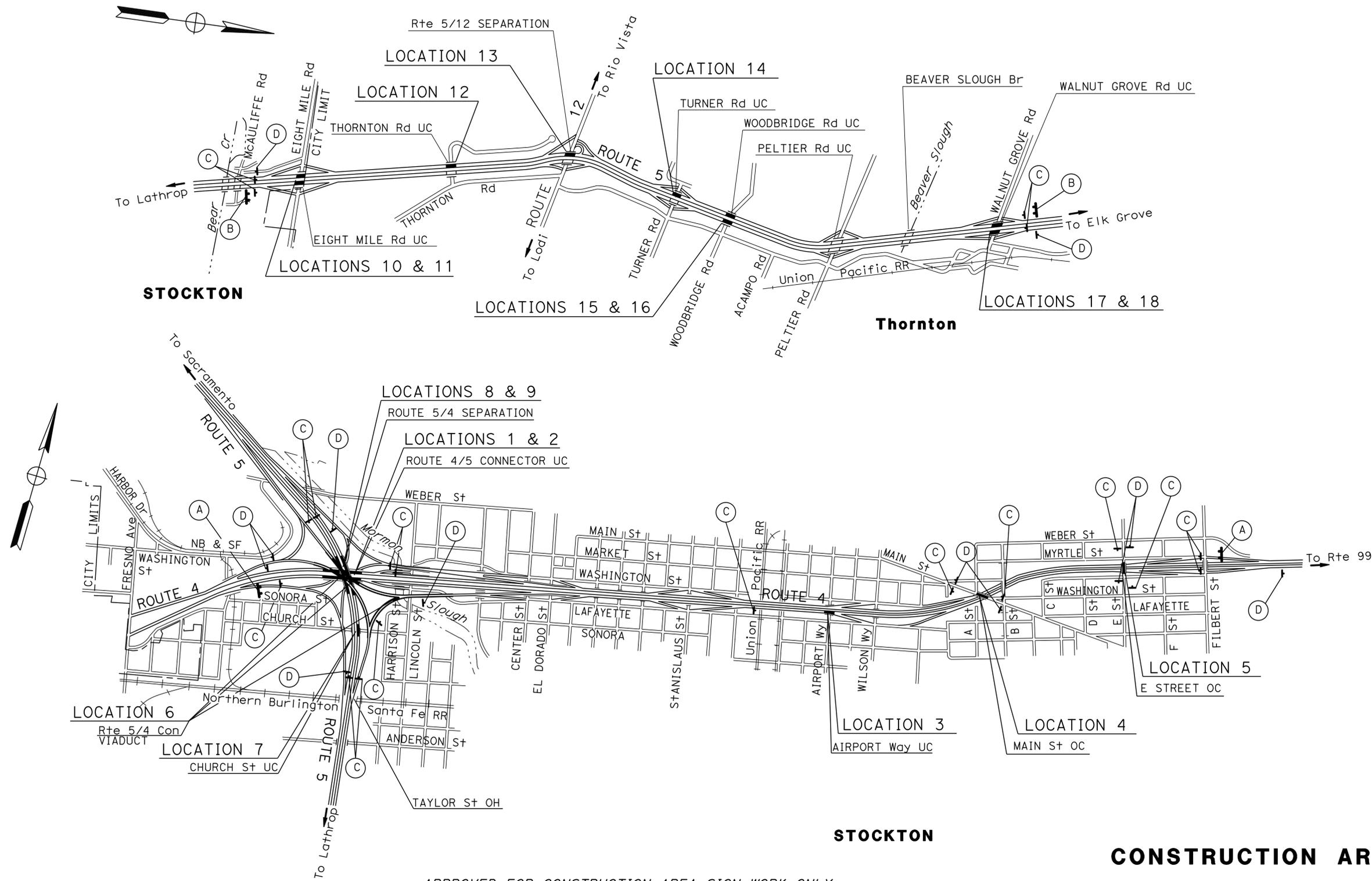
NOTES: 1. EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.
 2. FOR ADDITIONAL CONSTRUCTION AREA SIGNS, SEE MOTORIST INFORMATION SHEETS.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5	Var	3	31

Jose A. Alicea II 7/22/15
 REGISTERED CIVIL ENGINEER DATE

11-2-15
 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.



APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CONSTRUCTION AREA SIGNS
 NO SCALE **CS-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MAINTENANCE
 FUNCTIONAL SUPERVISOR: ALVIN MANGINDIN
 CALCULATED/DESIGNED BY: THOA TABADA
 CHECKED BY: JOSE ALICEA
 REVISED BY: JAA
 DATE REVISED: 9-29-15

LAST REVISION | DATE PLOTTED => 19-NOV-2015
 09-29-15 | TIME PLOTTED => 13:40

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5	Var	4	31

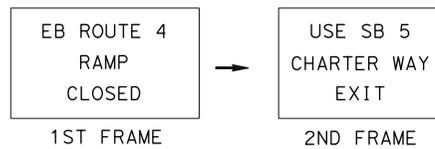
REGISTERED CIVIL ENGINEER DATE 7/22/15
 JOSE A. ALICEA II
 No. 64817
 Exp. 6/30/17
 CIVIL
 STATE OF CALIFORNIA

11-2-15
 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. EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.
2. * ADVANCED SPECIAL MESSAGE ADVISORY SIGN AT RAMP.
3. WHEN DETOUR IS NOT IN USE, COVER ALL CONFLICTING ROADSIDE SIGNS EXCEPT SC6-4.
4. FOR ADDITIONAL CONSTRUCTION AREA SIGNS, SEE CONSTRUCTION AREA SIGNS SHEET AND MOTORIST INFORMATION PLAN SHEET 2.
5. CALIFORNIA SIGN CODES ARE DESIGNATED BY (CA). OTHERWISE FEDERAL (MUTCD) CODES ARE SHOWN.
6. DURING THE CONNECTOR CLOSURE, THE PCMS SHOULD READ:

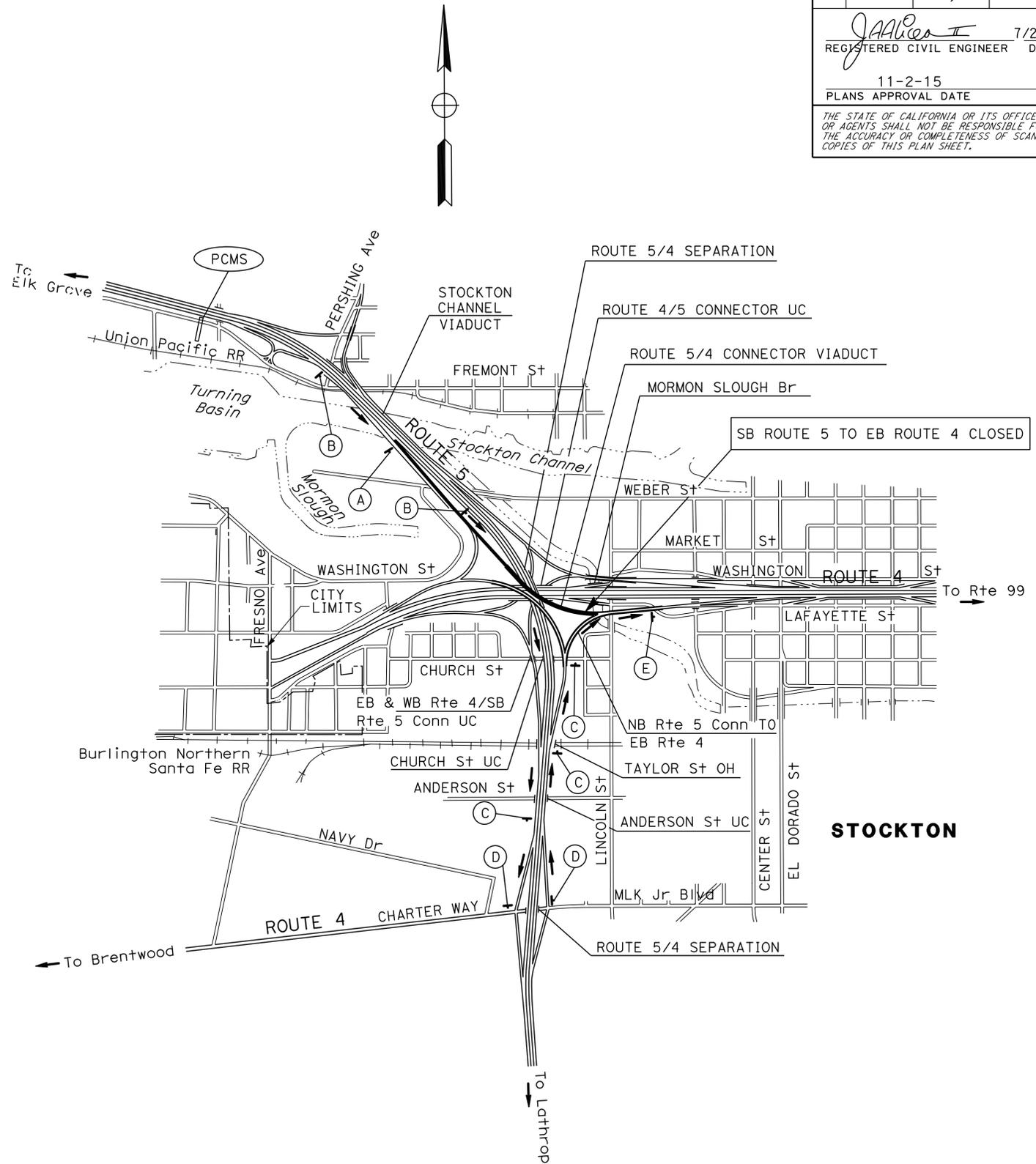


CONSTRUCTION AREA SIGNS

SIGN	SIGN CODE	PANEL SIZE	No. OF POSTS AND SIZE	No. OF SIGNS	SIGN MESSAGE
(A)*	SC6-4(CA)	48" x 60"	1 - 6" x 6"	1	"RAMP CLOSED INFO"
(B)	M4-8	24" x 12"	1 - 4" x 4"	2	DETOUR
	G28-1(4)(CA)	24" x 18"			"4" SHIELD
(C)	M4-10(R+)	48" x 18"	1 - 4" x 4"	3	DETOUR (ARROW)
(D)	M4-10(L+)	48" x 18"	1 - 4" x 4"	2	DETOUR (ARROW)
(E)	M4-8a	24" x 18"	1 - 4" x 4"	1	END DETOUR

DETOUR PLAN

1. SB ROUTE 5 TO EB ROUTE 4 CLOSED
2. CONTINUE SB ROUTE 5
3. TAKE SB ROUTE 5 CHARTER WAY OFF-RAMP
4. TAKE LEFT ONTO EB CHARTER WAY
5. TAKE LEFT ONTO NB ROUTE 5 ON-RAMP FROM CHARTER WAY
6. TAKE EB ROUTE 4 CONNECTOR
7. END DETOUR



**MOTORIST INFORMATION PLAN
(SB ROUTE 5 TO EB ROUTE 4)**

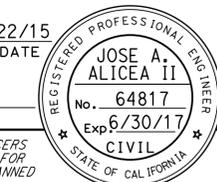
NO SCALE

MI-1

APPROVED FOR MOTORIST INFORMATION WORK ONLY

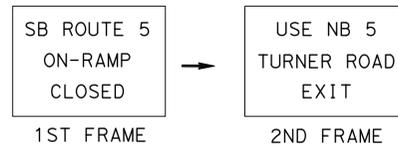
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5	Var	5	31

		7/22/15
REGISTERED CIVIL ENGINEER	DATE	
11-2-15		
PLANS APPROVAL DATE		

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

NOTES (THIS SHEET ONLY):

- FOR ADDITIONAL CONSTRUCTION AREA SIGNS, SEE CONSTRUCTION AREA SIGNS SHEET AND MOTORIST INFORMATION SHEET 1.
- DURING THE CONNECTOR CLOSURE, THE PCMS SHOULD READ:

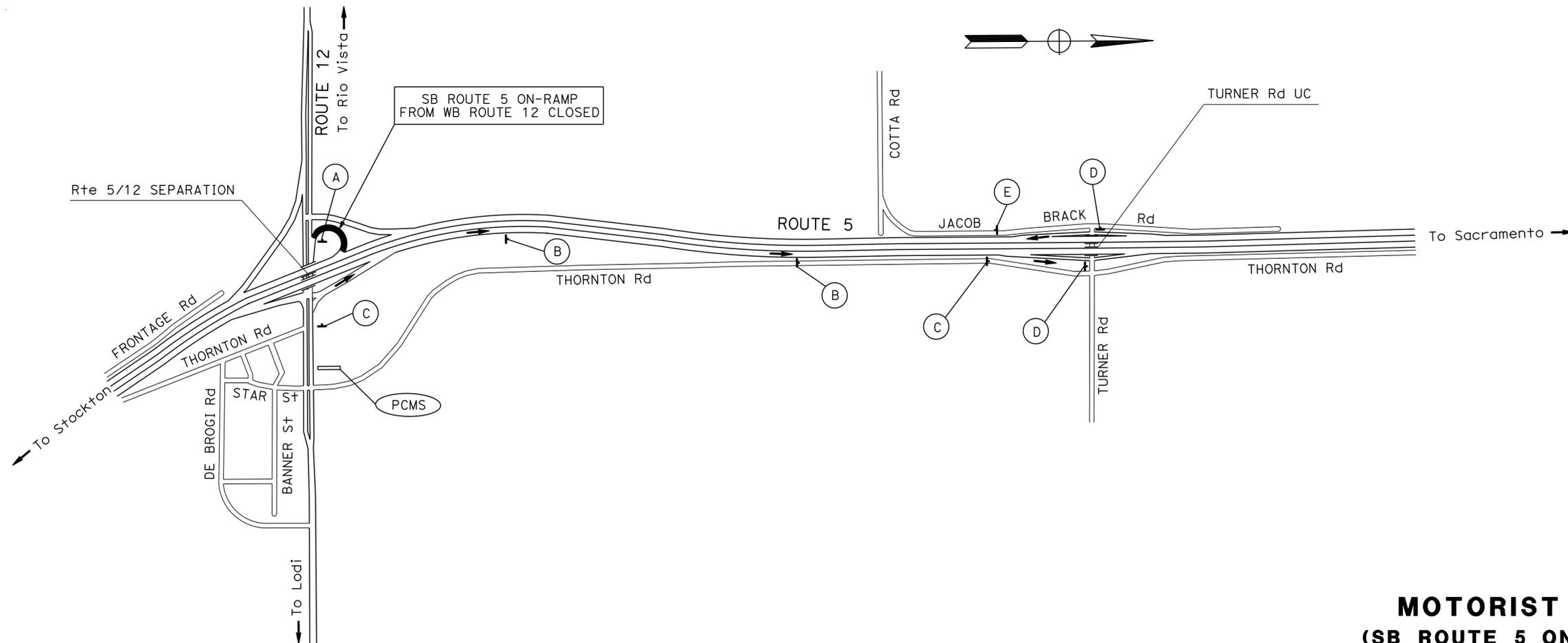


DETOUR PLAN

- ON-RAMP TO SB ROUTE 5 FROM ROUTE 12 CLOSED
- TAKE ON-RAMP TO NB ROUTE 5 FROM WB ROUTE 12
- CONTINUE NB ROUTE 5
- TAKE NB ROUTE 5 TURNER ROAD OFF-RAMP
- TAKE LEFT ONTO WB TURNER ROAD
- TAKE LEFT ONTO SB ROUTE 5 ON-RAMP FROM TURNER ROAD
- END DETOUR

CONSTRUCTION AREA SIGNS

SIGN	SIGN CODE	PANEL SIZE	No. OF POSTS AND SIZE	No. OF SIGNS	SIGN MESSAGE
(A)*	SC6-4(CA)	48" x 60"	1 - 6" x 6"	1	"RAMP CLOSED INFO"
(B)	M4-8	24" x 12"	1 - 4" x 4"	2	DETOUR
	G27-1(5)(CA)	24" x 24"			"5" SHIELD
(C)	M4-10(R+)	48" x 18"	1 - 4" x 4"	2	DETOUR (ARROW)
(D)	M4-10(L+)	48" x 18"	1 - 4" x 4"	2	DETOUR (ARROW)
(E)	M4-8a	24" x 18"	1 - 4" x 4"	1	END DETOUR



MOTORIST INFORMATION PLAN
(SB ROUTE 5 ON-RAMP FROM WB ROUTE 12)

NO SCALE

MI-2

APPROVED FOR MOTORIST INFORMATION WORK ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5	Var	6	31

REGISTERED CIVIL ENGINEER DATE 7/22/15
 JOSE A. ALICEA II
 No. 64817
 Exp. 6/30/17
 CIVIL
 PLANS APPROVAL DATE 11-2-15
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:
TRAFFIC MANAGEMENT SYSTEM ELEMENTS LOCATIONS ARE APPROXIMATE.

TRAFFIC MANAGEMENT SYSTEM ELEMENTS (EXISTING)

Loc	Rte	PM	Dir	LOCATION	TYPE	DESCRIPTION
8	5	25.97	NB	CHURCH STREET UC	TMS	TRAFFIC MONITORING STATION
8	5	25.98	NB	CHURCH STREET	CCTV	CLOSED CIRCUIT TELEVISION CAMERA
13	5	38.09	SB	N OF VAN RUITEN UC	TMS	TRAFFIC MONITORING STATION
15	5	41.68	SB	N OF TURNER ROAD	TMS	TRAFFIC MONITORING STATION
16	5	42.70	SB	N OF WOODBRIDGE ROAD	TMS	TRAFFIC MONITORING STATION
17	5	42.70	NB	N OF WOODBRIDGE ROAD	TMS	TRAFFIC MONITORING STATION
18	5	47.65	NB	ON-RAMP FROM WALNUT GROVE Rd	TMS	TRAFFIC MONITORING STATION
19	5	47.60	SB	ON-RAMP FROM WALNUT GROVE Rd	TMS	TRAFFIC MONITORING STATION

ROADWAY ITEMS

Loc	Rte	PM	DESCRIPTION	BRIDGE No.	SIDE	LENGTH	WIDTH	COLD PLANE AC Pvmnt	MINOR HMA	REMOVE AC DIKE	PLACE HMA DIKE (TYPE F)
								SQYD	TON	LF	LF
6	5	25.87	ROUTE 5/4 CONNECTOR VIADUCT	29-0233H	R+	12'	10'	14	2.8		
					L+	12'	5'	7	1.0		
					R+				0.2	12	12
TOTAL								21	4.0	12	12

PAVEMENT DELINEATION QUANTITIES

Loc	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)	REMOVE THERMOPLASTIC TRAFFIC STRIPE	4" THERMOPLASTIC TRAFFIC STRIPE					8" THERMOPLASTIC TRAFFIC STRIPE		REMOVE PAVEMENT MARKER	PAVEMENT MARKER (RETROREFLECTIVE)								REMOVE THERMOPLASTIC PAVEMENT MARKING	REMOVE THERMOPLASTIC PAVEMENT MARKING			
			YELLOW		WHITE	WHITE	YELLOW	WHITE	WHITE		TYPE A DETAIL 13	TYPE D DETAIL 2	TYPE G			TYPE H							
			DETAIL 22	DETAIL 25	DETAIL 25A	DETAIL 27B	(BROKEN 36-12) DETAIL 12	(BROKEN 17-7) DETAIL 2	DETAIL 8				DETAIL 9	DETAIL 9	DETAIL 12	DETAIL 13	DETAIL 36	DETAIL 25			DETAIL 25A		
			LF	LF	LF	LF	LF	EA	EA				SQFT	SQFT									
3	256	140		163	93	326	326			21				7		6	4	4	31	31			
4	572		572						36				24	12									
5	205							205		5		5											
6	30				30	30	30		3					1				2					
7	171			171		171	513		68	42				11	11			4					
10	134			134		134	268		37	22				6	6			3					
11	134			134		134	268		37	22				6	6			3					
12	86			86		86	172		6					4				2					
13	210			210		210	420		14					9				5					
14	104			104		104	104		17	8				3	3			3					
15	105			105		105	105		17	8				3	3			3					
16	105			105		105	105		17	8				3	3			3					
17	148			148		148	148		24	12				4	4			4					
18	148			148		148	148		24	12				4	4			4					
SUBTOTAL	2408	140	572	1508	123	1701	2607	205	80	572	140	326	134	5	24	12	61	40	6	38	6	31	31
TOTAL	2408	140	3904				2607	857			140	326	326								31	31	

SUMMARY OF QUANTITIES
Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MAINTENANCE
 FUNCTIONAL SUPERVISOR: ALVIN MANGINDIN
 CALCULATED/DESIGNED BY: THOA TABADA
 CHECKED BY: JOSE ALICEA
 REVISED BY: JAA
 DATE REVISED: 09-29-15

LAST REVISION DATE PLOTTED => 19-NOV-2015 11-13-15 TIME PLOTTED => 13:40

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5	Var	7	31

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 11-2-15

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
∅	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

RSP A10B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A10B
DATED MAY 20, 2011 - PAGE 2 OF THE STANDARD PLANS BOOK DATED 2010.

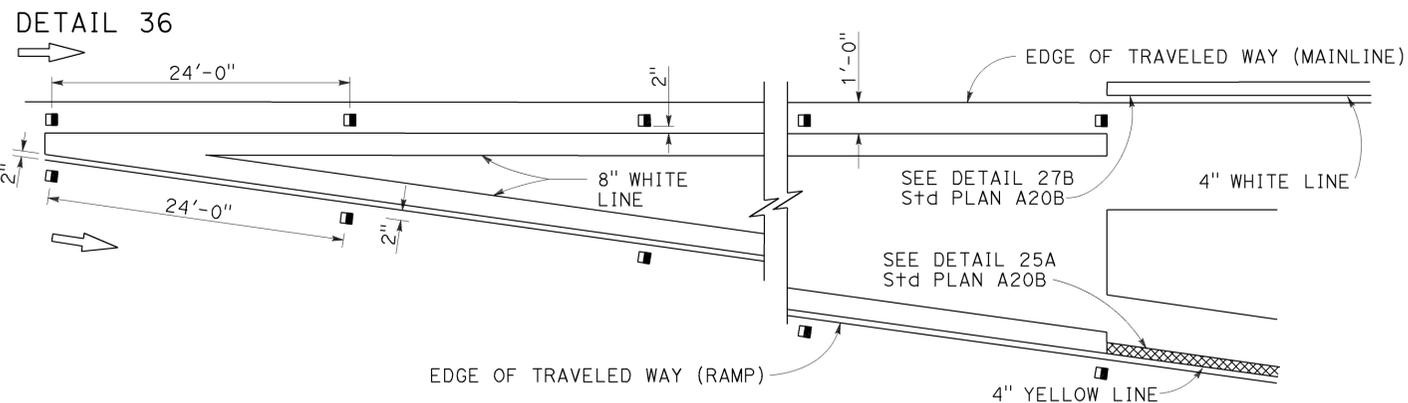
	M
Maint	MAINTENANCE
Max	MAXIMUM
MB	METAL BEAM
MBB	METAL BEAM BARRIER
MBGR	METAL BEAM GUARD RAILING
Med	MEDIAN
MGS	MIDWEST GUARDRAIL SYSTEM
MH	MANHOLE
Min	MINIMUM
Misc	MISCELLANEOUS
Misc I & S	MISCELLANEOUS IRON AND STEEL
Mkr	MARKER
Mod	MODIFIED, MODIFY
Mon	MONUMENT
MP	METAL PLATE
MPGR	METAL PLATE GUARD 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
Obir	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

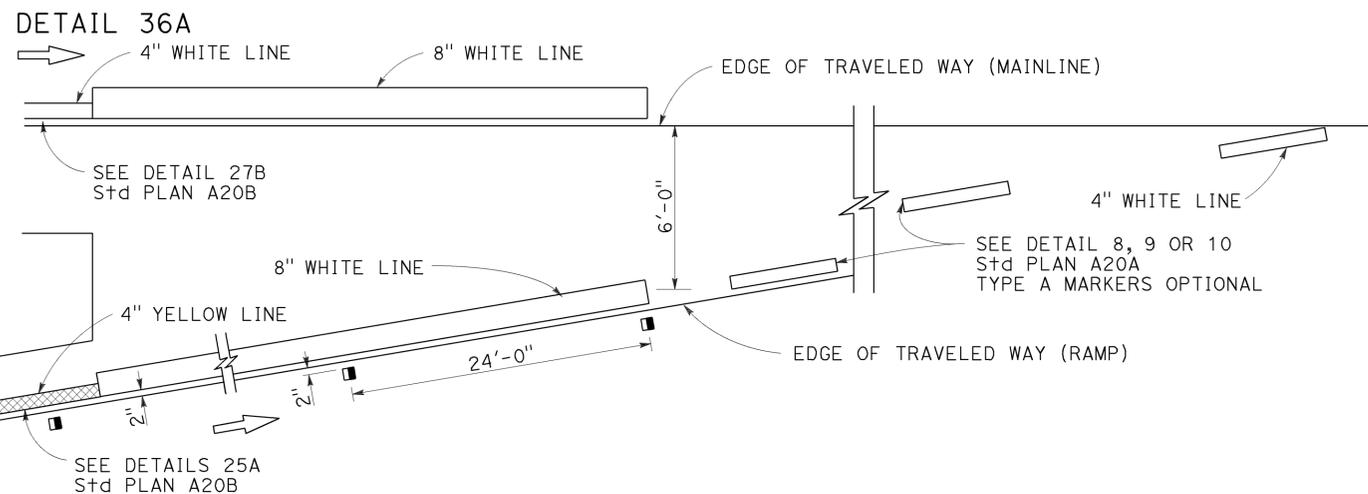
	S
S	SOUTH, SUPPLEMENT
SAE	STRUCTURE APPROACH EMBANKMENT
Salv	SALVAGE
SAPP	STRUCTURAL ALUMINUM PLATE PIPE
SB	SOUTHBOUND
SC	SAND CUSHION
SCSP	SLOTTED CORRUGATED STEEL PIPE
SD	STORM DRAIN
Sec	SECOND, SECTION
Sep	SEPARATION
SG	SUBGRADE
Shld	SHOULDER
Sht	SHEET
Sim	SIMILAR
SL	STATION LINE
SM	SELECTED MATERIAL
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
TeI	TELEPHONE
Temp	TEMPORARY
TG	TOP OF GRADE
Tot	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
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
Vert	VERTICAL
Via	VIADUCT
Vol	VOLUME
	W
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
WWL	WINGWALL LAYOUT LINE
	X
X Sec	CROSS SECTION
Xing	CROSSING
	Y
Yr	YEAR
Yrs	YEARS

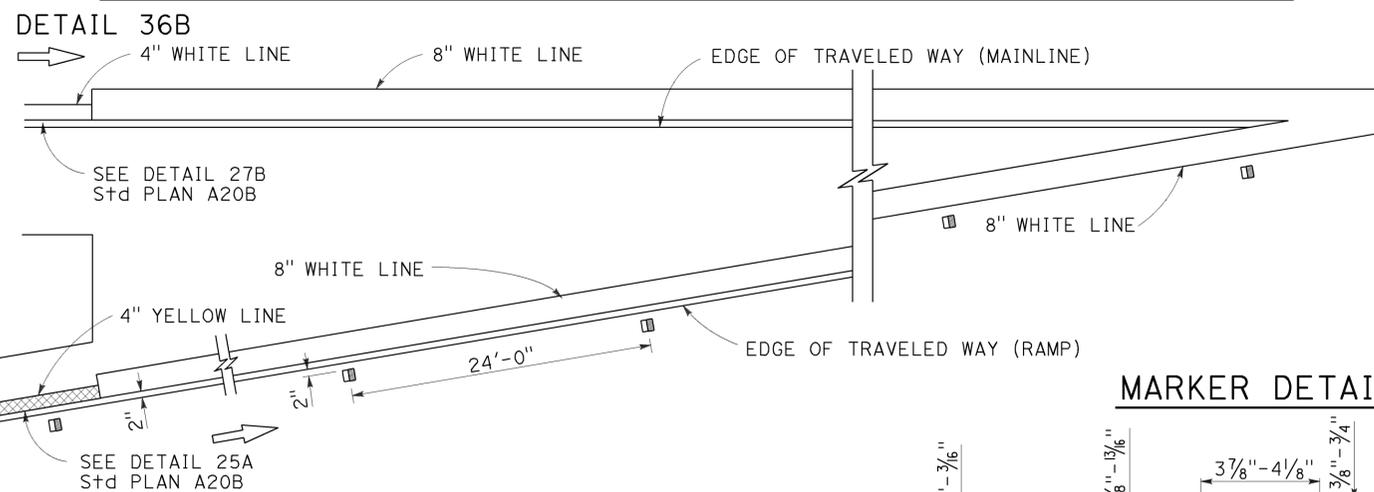
EXIT RAMP NEUTRAL AREA (GORE) TREATMENT



ENTRANCE RAMP NEUTRAL AREA (MERGE) TREATMENT



ENTRANCE RAMP NEUTRAL AREA (ACCELERATION LANE) TREATMENT

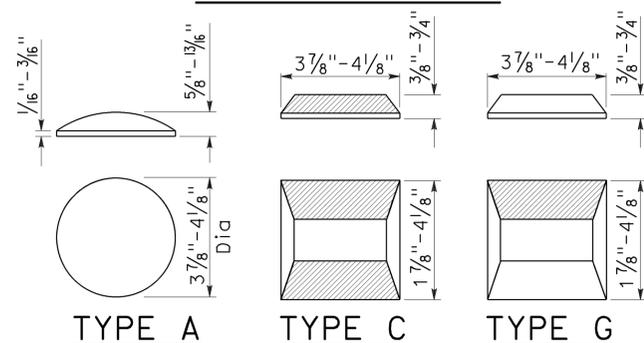


MARKER DETAILS

LEGEND:

MARKERS

- TYPE A WHITE NON-REFLECTIVE
- ◻ TYPE C RED-CLEAR RETROREFLECTIVE
- TYPE G ONE-WAY CLEAR RETROREFLECTIVE



RETROREFLECTIVE FACE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5	Var	8	31

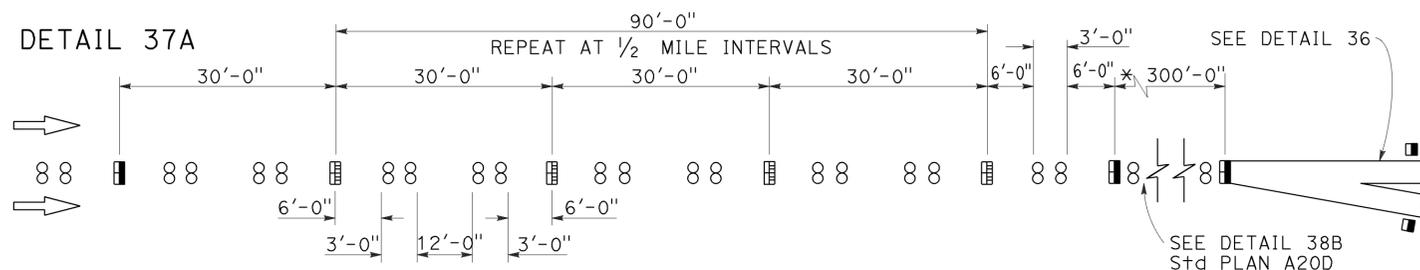
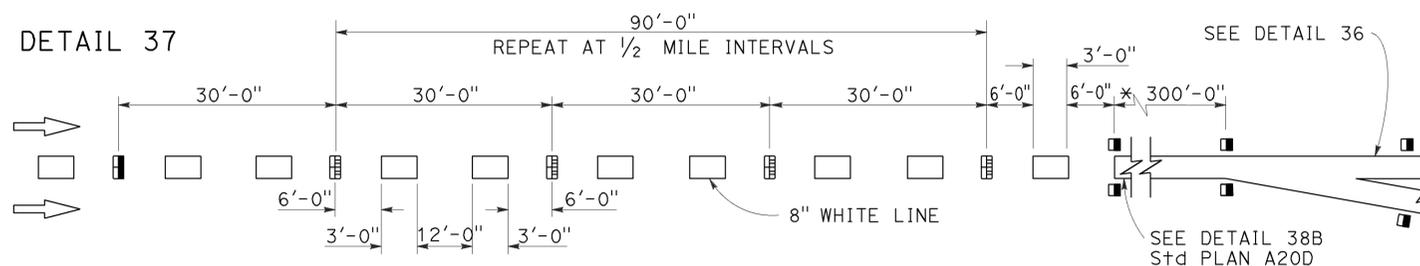
Roberta L. McLaughlin
 REGISTERED CIVIL ENGINEER
 No. C40375
 Exp. 3-31-15
 CIVIL
 STATE OF CALIFORNIA

July 19, 2013
PLANS APPROVAL DATE

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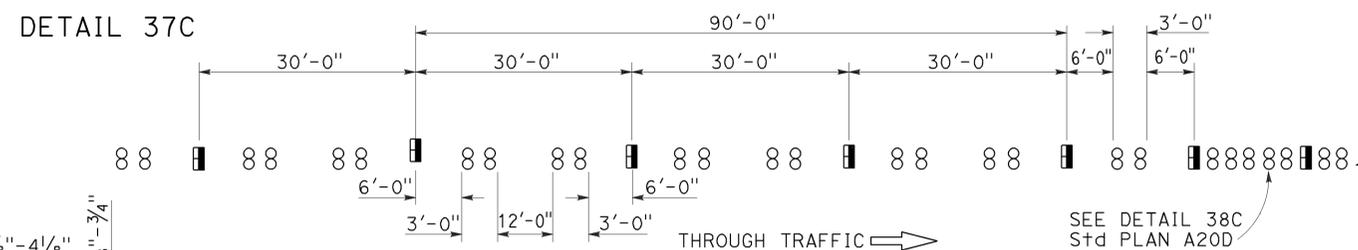
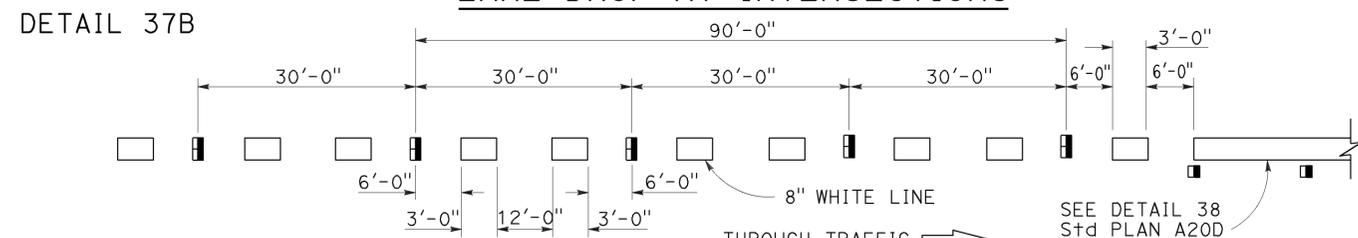
TO ACCOMPANY PLANS DATED 11-2-15

LANE DROP AT EXIT RAMPS



* The solid channelizing line shown may be omitted on short auxiliary lanes where weaving length is critical.

LANE DROP AT INTERSECTIONS



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKERS AND TRAFFIC LINE TYPICAL DETAILS

NO SCALE

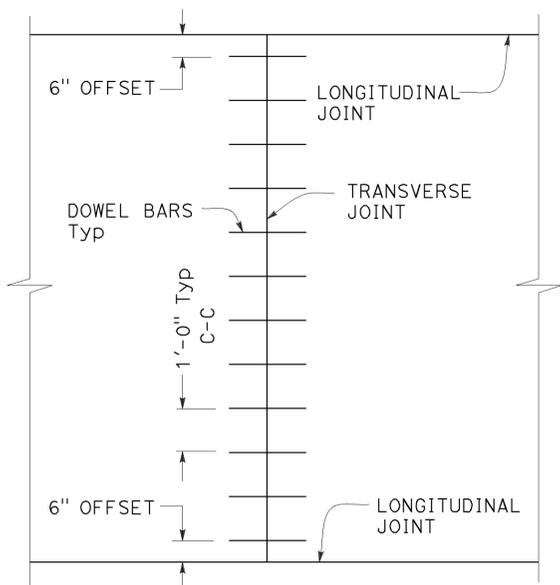
RSP A20C DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A20C DATED MAY 20, 2011 - PAGE 11 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A20C

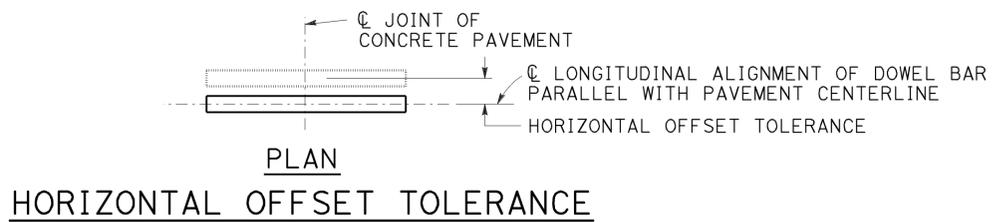
2010 REVISED STANDARD PLAN RSP A20C

TO ACCOMPANY PLANS DATED 11-2-15

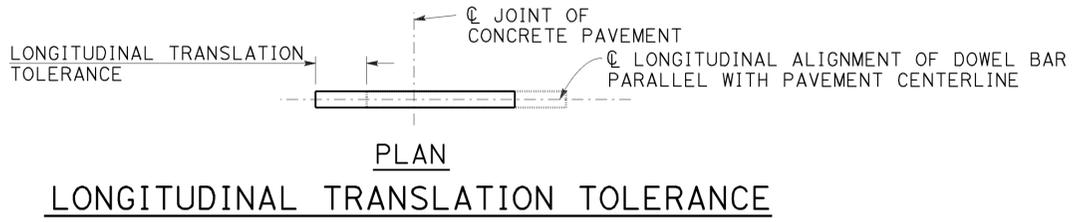
- NOTES:**
- See Revised Standard Plan RSP P1 for typical dowel bar placement and locations.
 - Where fresh concrete pavement is placed against new concrete or existing concrete pavement, rounding the corner of the existing concrete pavement is not required.
 - May also use 3/4" Dia dowel bars 2'-4" ± 1/4" in length. Center the length of dowel bars at the centerline of longitudinal joint.



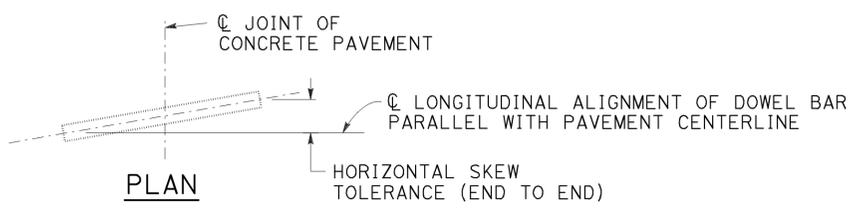
**TRANSVERSE JOINT
DOWEL BAR LAYOUT**



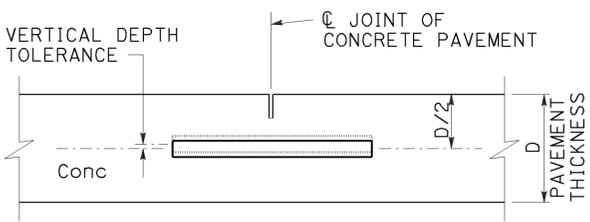
HORIZONTAL OFFSET TOLERANCE



LONGITUDINAL TRANSLATION TOLERANCE

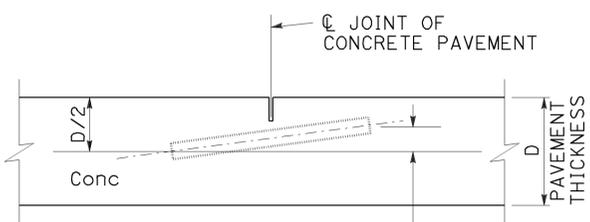


HORIZONTAL SKEW TOLERANCE



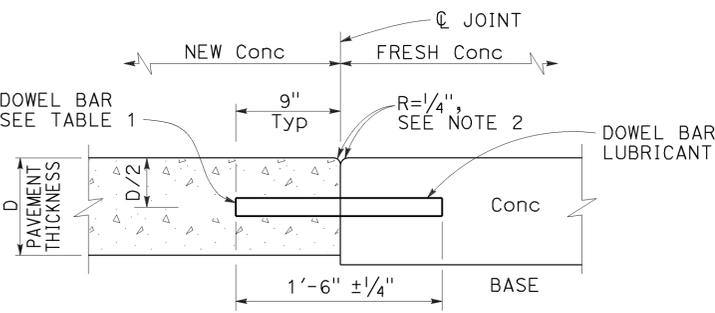
ELEVATION

VERTICAL DEPTH TOLERANCE

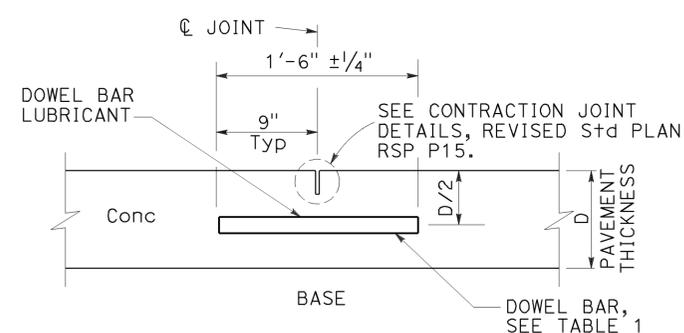


ELEVATION

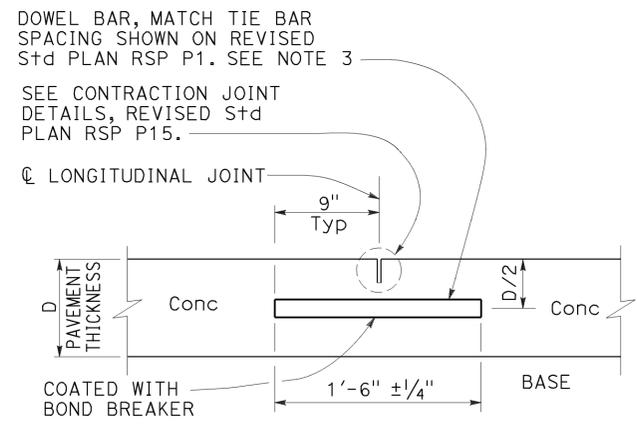
VERTICAL SKEW TOLERANCE



**TRANSVERSE
CONSTRUCTION JOINT DETAIL**



TRANSVERSE CONTRACTION JOINT



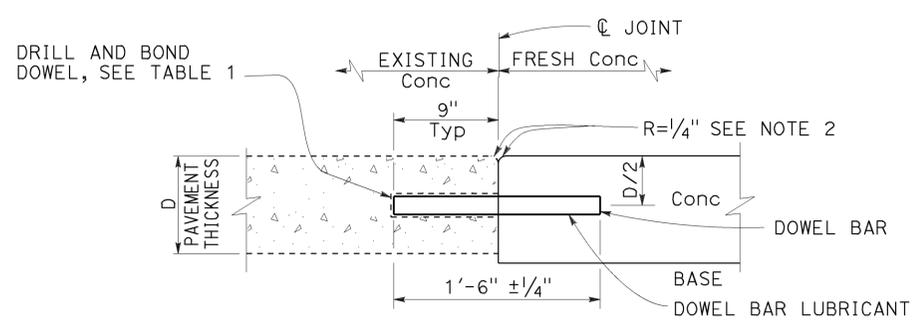
**LONGITUDINAL CONTRACTION
JOINT WITH DOWEL BARS**

See Revised Std Plan RSP P18

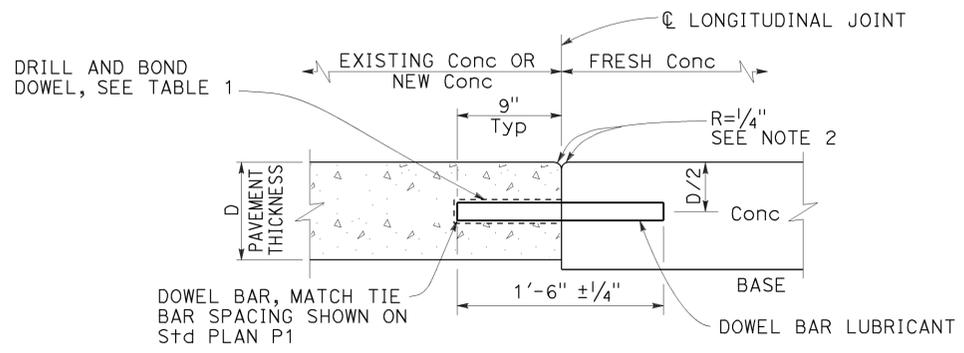
TABLE 1

DOWEL BAR DIAMETER TABLE			
PAVEMENT THICKNESS	0.65'	> 0.65' - 0.85'	> 0.85'
MINIMUM DOWEL * BAR DIAMETER	1"	1 1/4"	1 1/2"

* The drilled hole diameter must be 1/8" to 3/16" larger than the bar diameter.



**TRANSVERSE CONSTRUCTION JOINT
FOR EXISTING CONCRETE PAVEMENT**



**LONGITUDINAL CONSTRUCTION JOINT
WITH DOWEL BARS**

See Revised Std Plan RSP P18

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**CONCRETE PAVEMENT
DOWEL BAR
DETAILS**

NO SCALE

RSP P10 DATED JULY 19, 2013 SUPERSEDES RSP P10 DATED APRIL 20, 2012 AND STANDARD PLAN P10 DATED MAY 20, 2011 - PAGE 131 OF THE STANDARD PLANS BOOK DATED 2010.

2010 REVISED STANDARD PLAN RSP P10

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5	Var	10	31

William K. Farnbach
 REGISTERED CIVIL ENGINEER
 July 19, 2013
 PLANS APPROVAL DATE
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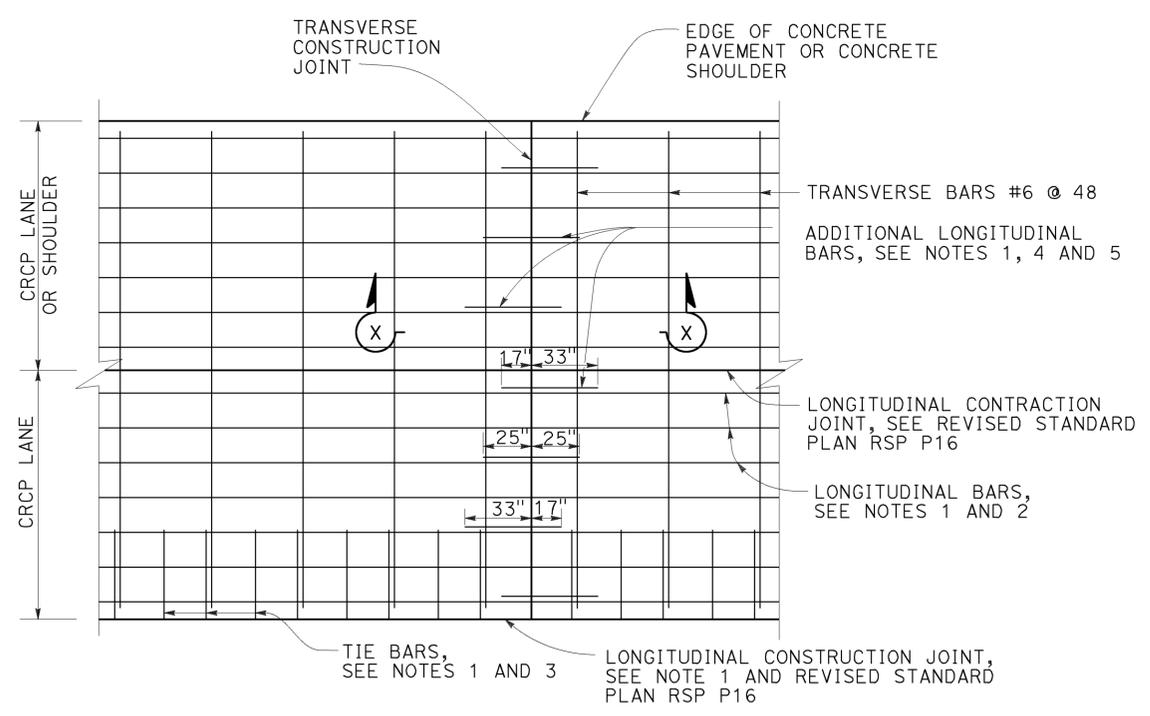
TO ACCOMPANY PLANS DATED 11-2-15

NOTES:

1. For longitudinal bar size, spacing and clearances, see Table 1 on Revised Standard Plan RSP P4.
2. The length of lap splices for bar reinforcement must be at least 25".
3. For tie bars in longitudinal construction joint, see Revised Standard Plan RSP P16.
4. Place additional longitudinal bars parallel to and in the same plane as the longitudinal bars.
5. Place additional longitudinal bars symmetrically about longitudinal construction joint.

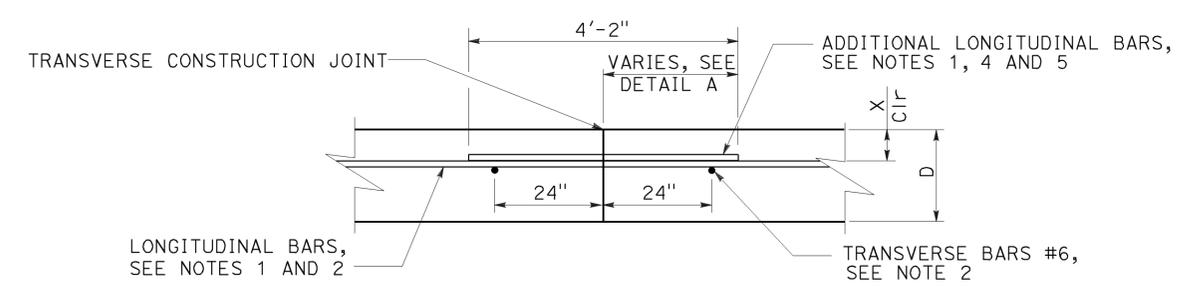
ABBREVIATION

D = Thickness of CRCP



DETAIL A

Additional longitudinal bars at transverse construction joint



SECTION X-X
TRANSVERSE CONSTRUCTION JOINT

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**CONTINUOUSLY REINFORCED
CONCRETE PAVEMENT
TRANSVERSE CONSTRUCTION JOINT**

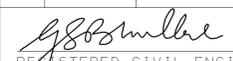
NO SCALE

RSP P14 DATED JULY 19, 2013 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP P14

2010 REVISED STANDARD PLAN RSP P14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5	Var	11	31


 REGISTERED CIVIL ENGINEER
 July 19, 2013
 PLANS APPROVAL DATE



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TO ACCOMPANY PLANS DATED 11-2-15

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
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.

2010 REVISED STANDARD PLAN RSP T9

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5	Var	12	31

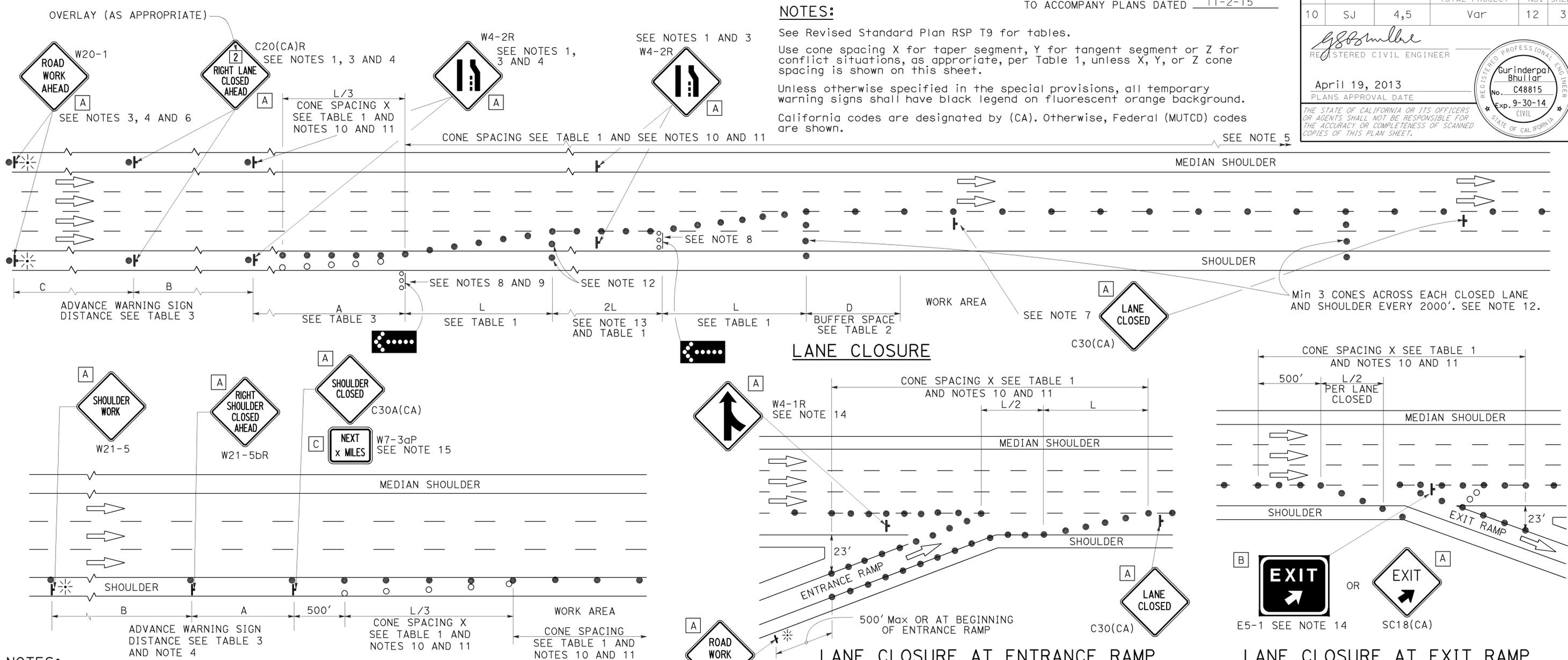
REGISTERED CIVIL ENGINEER
 Gurinderpal Bhullar
 No. C48815
 Exp. 9-30-14
 CIVIL
 STATE OF CALIFORNIA

April 19, 2013
 PLANS APPROVAL DATE
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TO ACCOMPANY PLANS DATED 11-2-15

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.

- 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) and W4-1 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.

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"

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

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.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5	Var	13	31

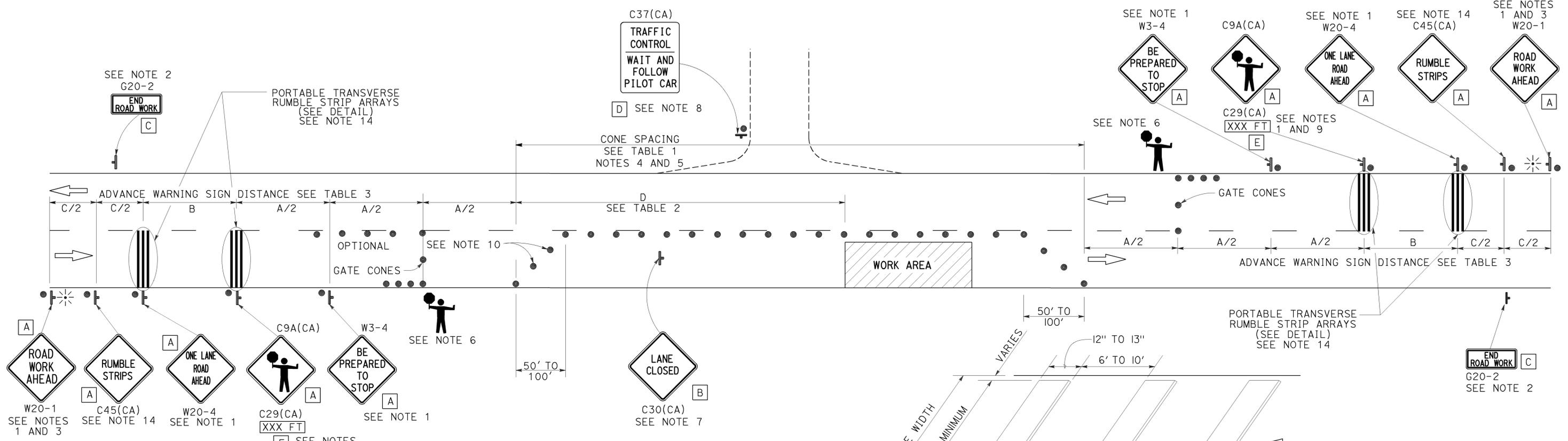
Devinder Singh
 REGISTERED CIVIL ENGINEER
 No. C50470
 Exp. 6-30-17
 CIVIL
 STATE OF CALIFORNIA

October 30, 2015
 PLANS APPROVAL DATE

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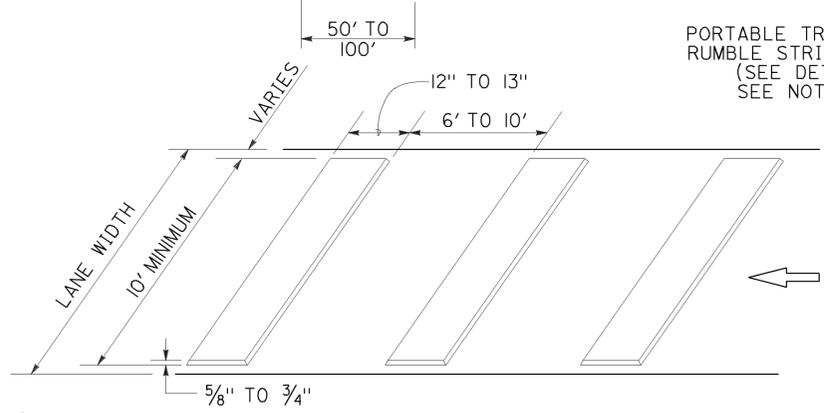
TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL

TO ACCOMPANY PLANS DATED 11-2-15



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.
- The color of the portable transverse rumble strips shall be black or orange. Use 2 arrays, each array shall consist of 3 rumble strips.
- Portable transverse rumble strips shall not be placed on sharp horizontal or vertical curves nor shall they be placed through pedestrian crossings.
- If the portable transverse rumble strips become out of alignment (skewed) by more than 6 inches, measured from one end to the other, they shall be readjusted to bring the placement back to the original location.
- Portable transverse rumble strips are not required if any one of the following conditions is satisfied:
 - Work duration occupies a location for four hours or less
 - Posted speed limit is below 45 MPH
 - Work is of emergency nature
 - Work zone is in snow or icy weather conditions



LEGEND

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

SIGN PANEL SIZE (Min)

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

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON TWO LANE CONVENTIONAL HIGHWAYS

NO SCALE

RSP T13 DATED OCTOBER 30, 2015 SUPERSEDES RSP T13 DATED OCTOBER 17, 2014, RSP T13 DATED JULY 18, 2014 AND RSP T13 DATED APRIL 19, 2013 AND 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

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5	Var	14	31

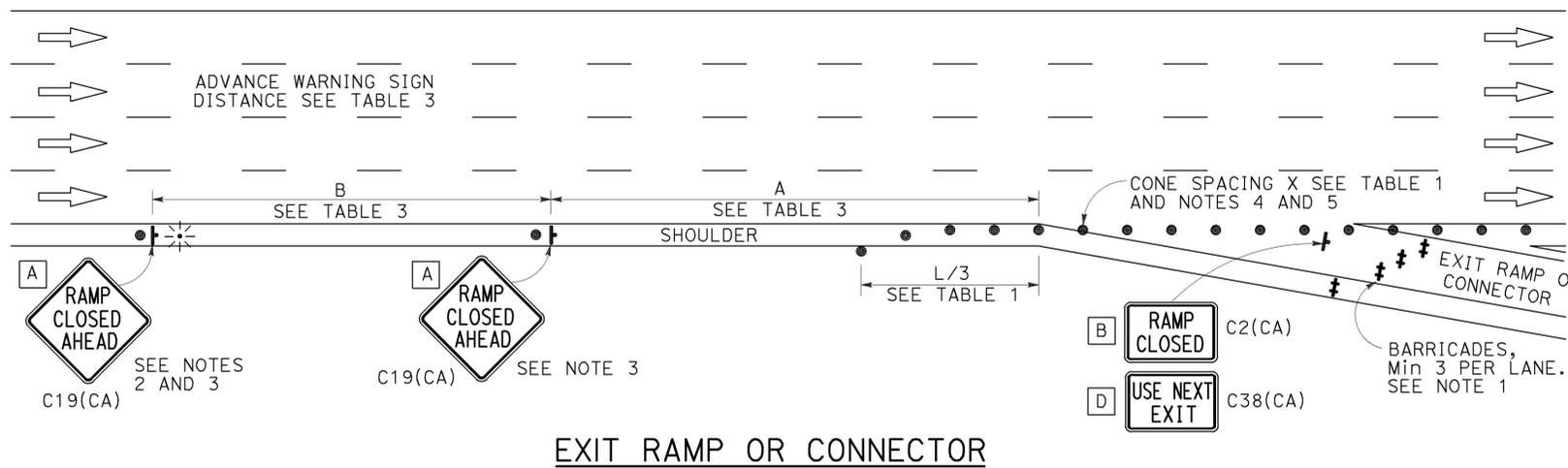
Gurinderpal Bhullar
 REGISTERED CIVIL ENGINEER
 April 19, 2013
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
 Gurinderpal Bhullar
 No. C48815
 Exp. 9-30-14
 CIVIL
 STATE OF CALIFORNIA

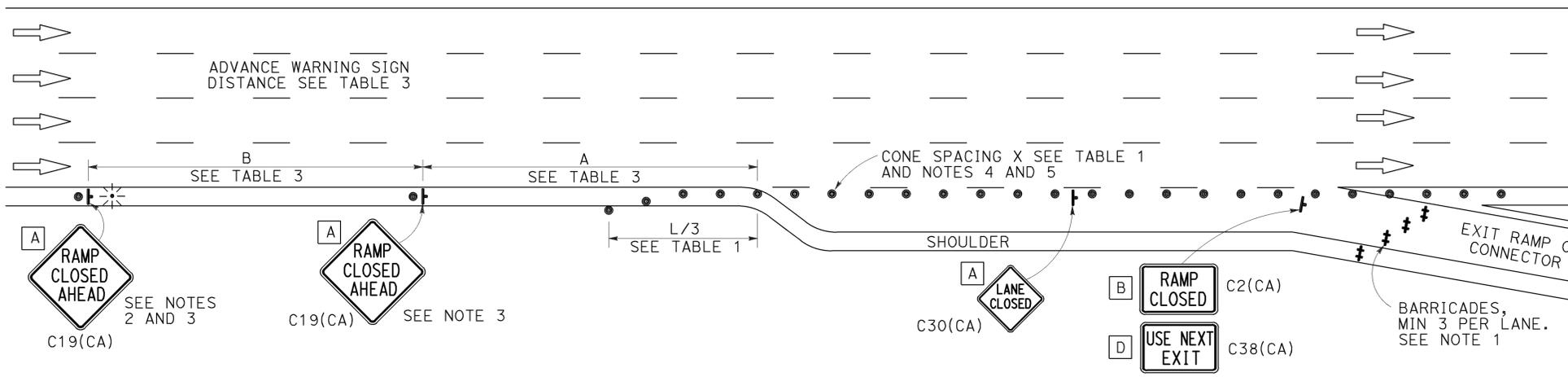
TO ACCOMPANY PLANS DATED 11-2-15

NOTES:

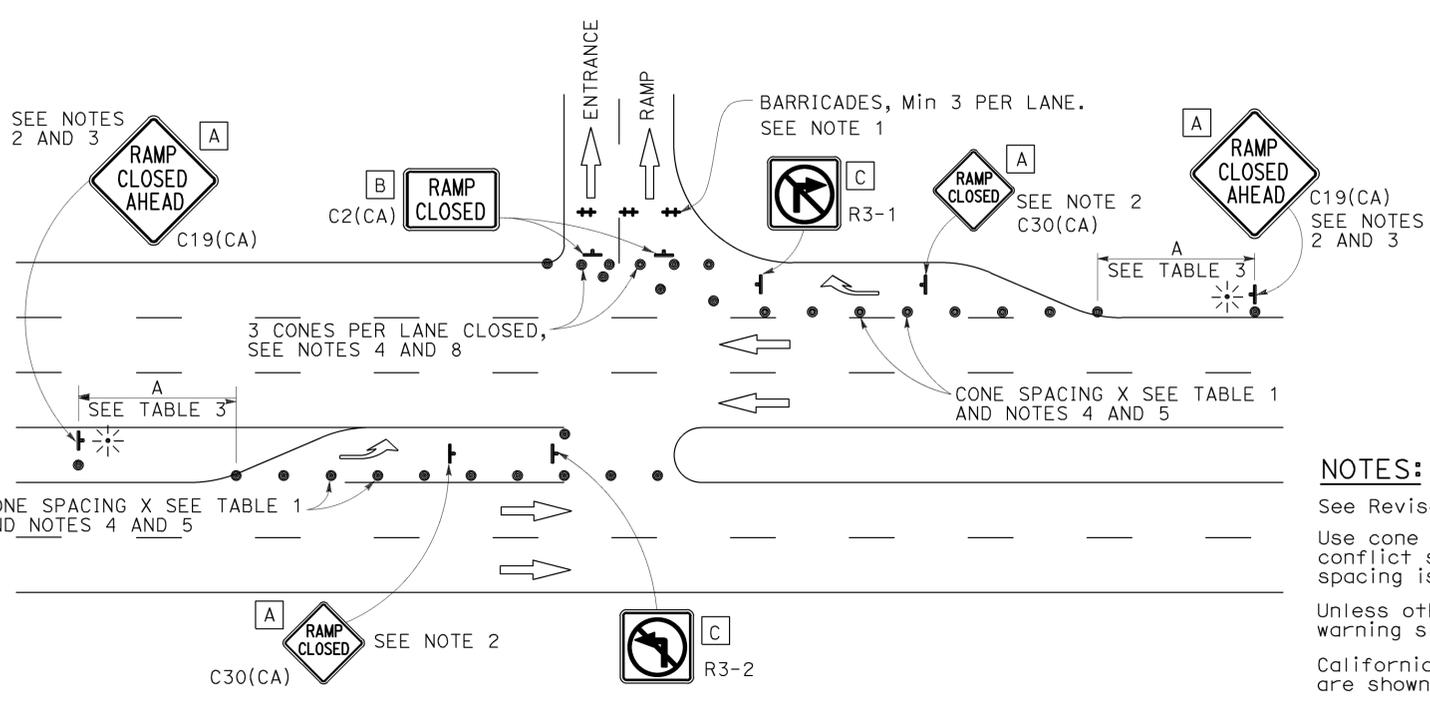
- Barricades shall be Type I, II, or III for closures lasting one week or less and Type III for closures lasting longer than one week.
- In addition to placing the C19(CA) "RAMP CLOSED AHEAD" and C30(CA) "RAMP CLOSED" signs, black on orange overlay plates with the word "CLOSED" may be mounted, as directed 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.



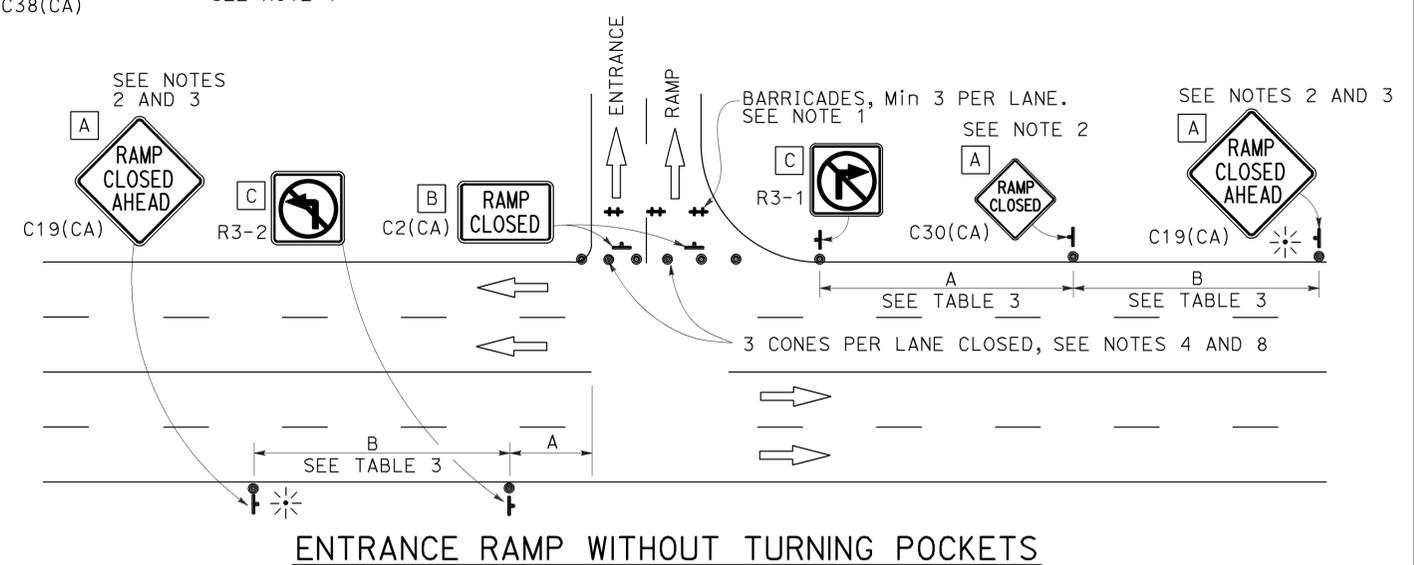
EXIT RAMP OR CONNECTOR



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.

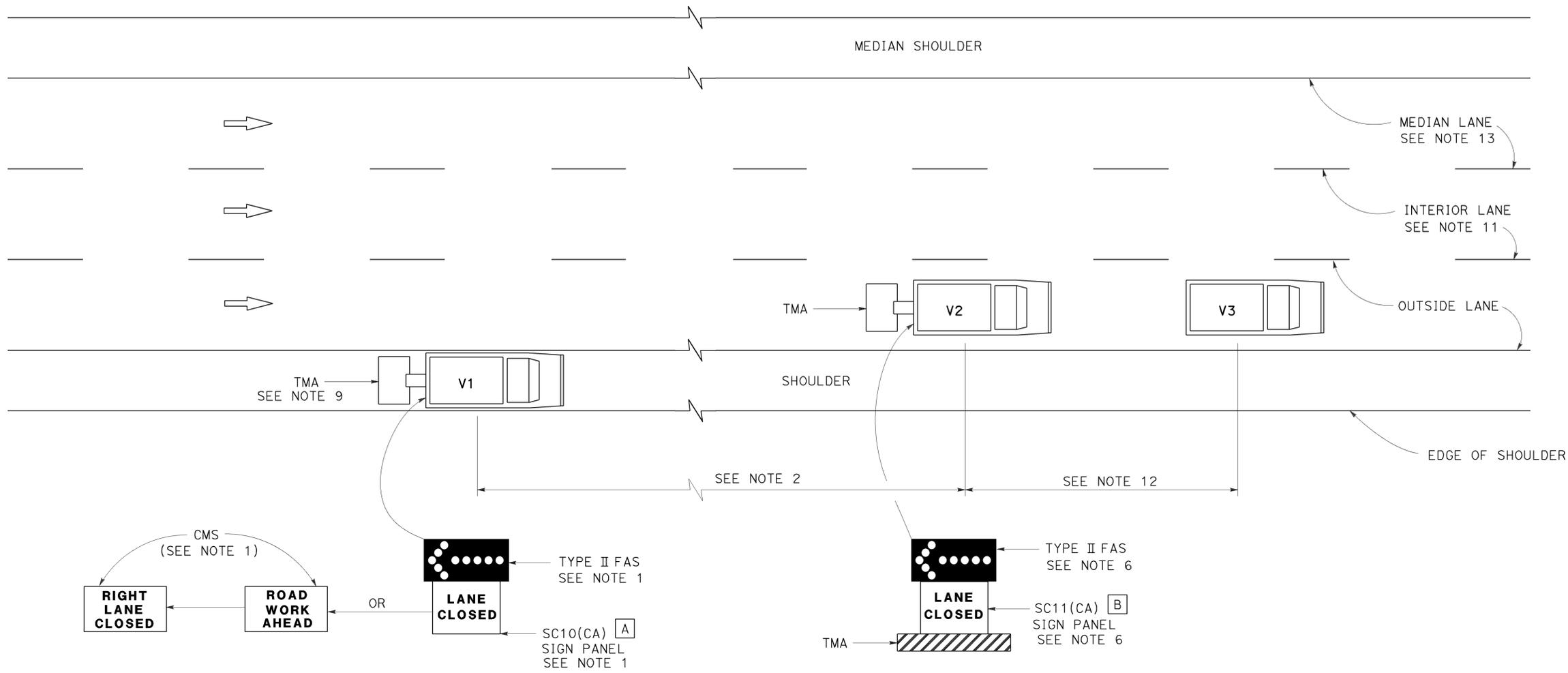
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
 FOR RAMP CLOSURE**
 NO SCALE

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

TO ACCOMPANY PLANS DATED 11-2-15



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 SIGN (FAS)
- CMS CHANGEABLE MESSAGE SIGN
- TMA TRUCK-MOUNTED ATTENUATOR

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

NOTES:

1. Either a changeable message sign or a SC10(CA) sign panel and a Type II flashing arrow sign shall be mounted on the rear of sign vehicle V1. The changeable message sign shall be sequenced to show the "ROAD WORK AHEAD" message first, followed by the "RIGHT LANE CLOSED" message. For median lane closure, the flashing arrow symbol shall be reversed with the arrowhead on the right and the changeable message sign shall show "LEFT LANE CLOSED".
2. If traffic queues develop, sign vehicle V1 should be positioned upstream from the end of queue. Sign vehicle V1 shall be positioned where highly visible when shoulders are not available.
3. A minimum sight distance of 1500' should be provided in advance of sign vehicle V1.
4. Sign vehicle V1 should remain at the beginning of horizontal or vertical curves until the other vehicles (V2 and V3) are far enough beyond the curve to resume the minimum sight distance of 1500'.
5. Vehicle-mounted sign panels shall have Type III or above retroreflective sheeting, black on white, or black on fluorescent orange, with 6" minimum series D letters per Caltrans sign specifications.
6. Shadow vehicle V2 shall be equipped with a truck-mounted attenuator. The sign panel shown and a Type II flashing arrow sign shall be mounted on the rear of shadow vehicle V2. For median lane closure the flashing arrow sign symbol shall be displayed with the arrowhead on the right.
7. All vehicles used for lane closures shall be equipped with two-way radios, and the vehicle operators shall maintain communication during the work or application operation.
8. All vehicles shall be equipped with flashing or rotating amber lights.
9. If sign vehicle V1 encroaches into the traffic lane due to insufficient shoulder width, sign vehicle V1 shall be equipped with a truck-mounted attenuator. Sign vehicle V1 shall stay as close to the edge of shoulder as practicable.
10. Where workers would be on foot in the work area, a stationary type lane closure (Revised Standard Plan T10, T11, etc., as applicable) shall be used instead of this plan.
11. For moving lane closure on interior lane of multilane highways, use Revised Standard Plan T16.
12. The spacing between work vehicle(s) and the shadow vehicles, and between each shadow vehicle should be minimized to deter road users from driving in between.
13. When the work/application vehicle V3 occupies the median lane, sign vehicle V1 should drive in the median shoulder and indicate left lane closed ahead.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR MOVING LANE CLOSURE ON MULTILANE HIGHWAYS
NO SCALE

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

REVISED STANDARD PLAN RSP T15

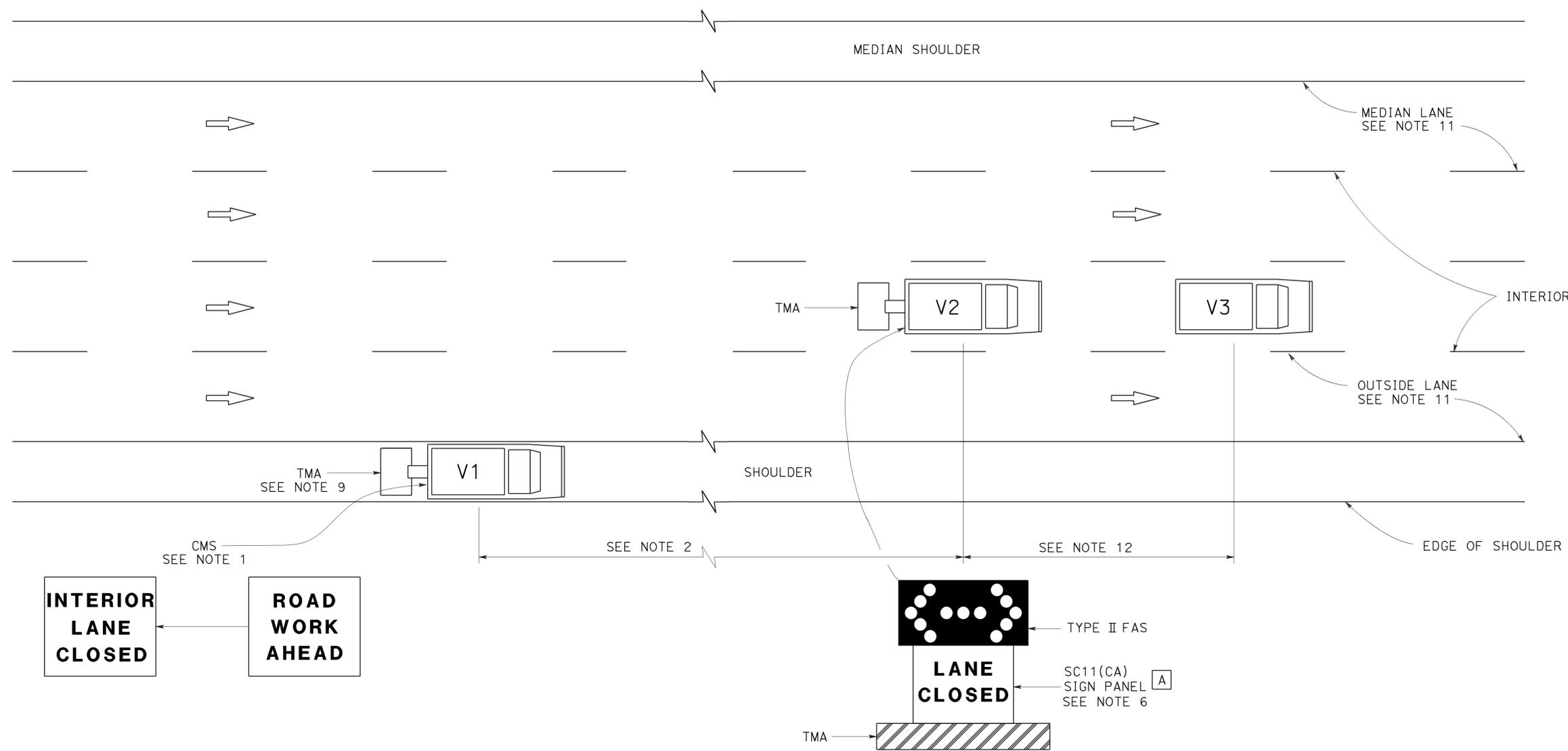
2010 REVISED STANDARD PLAN RSP T15

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5	Var	16	31

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.

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

TO ACCOMPANY PLANS DATED 11-2-15



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**

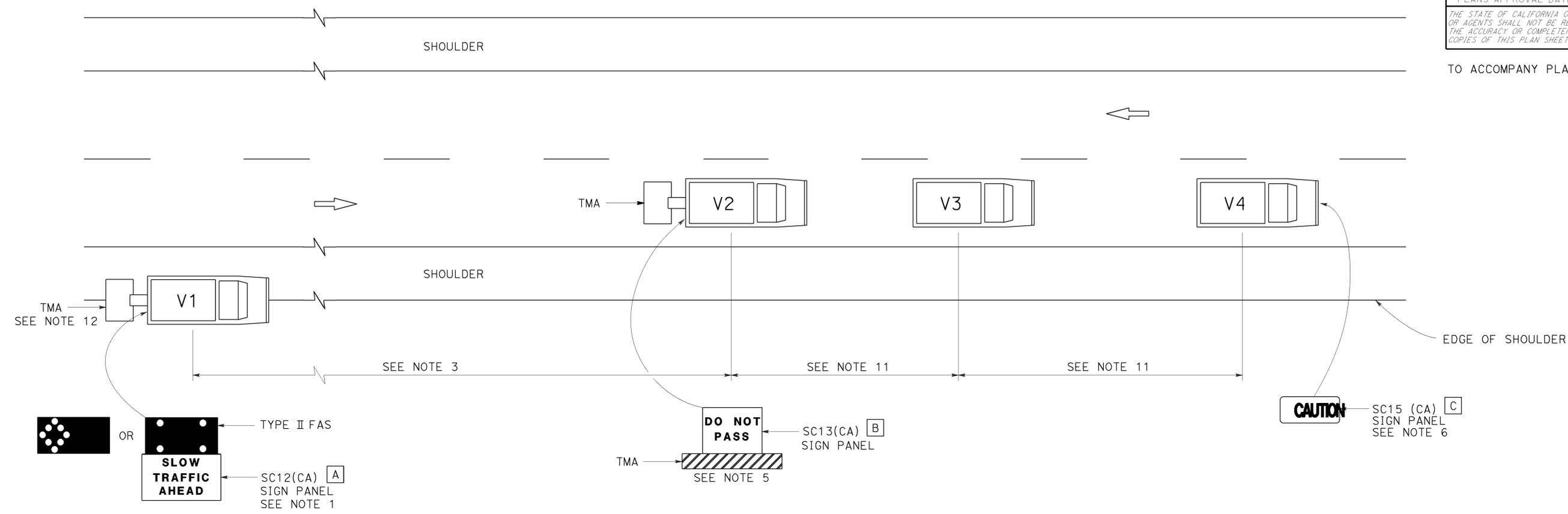
NO SCALE

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

TO ACCOMPANY PLANS DATED 11-2-15



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"

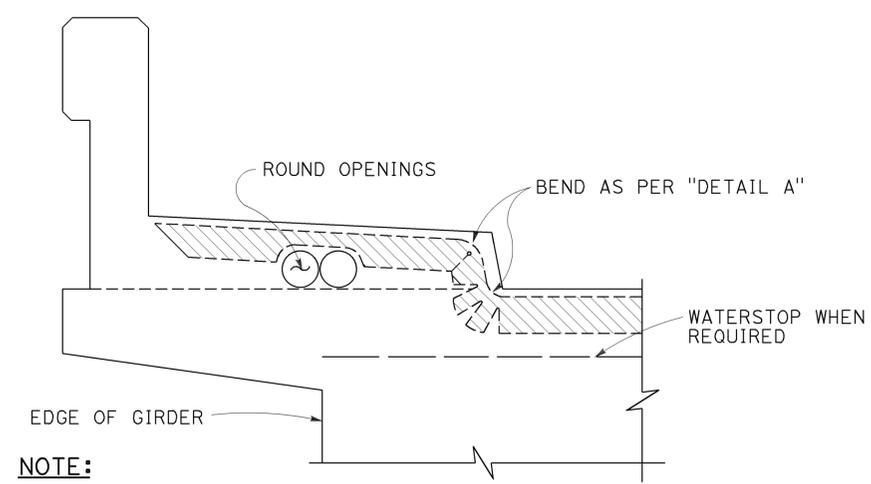
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
 FOR MOVING LANE CLOSURE
 ON TWO LANE HIGHWAYS**
 NO SCALE

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

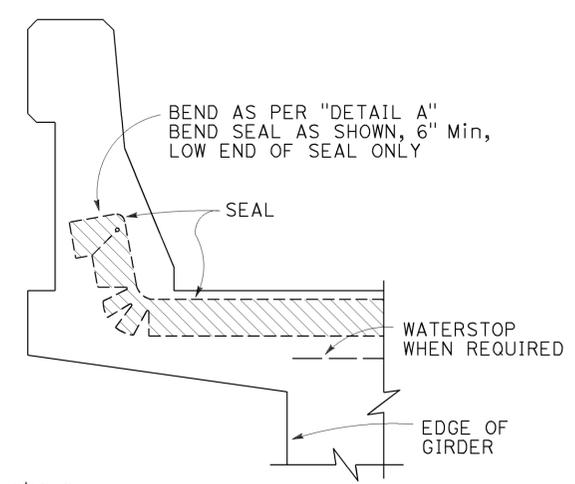
2010 REVISED STANDARD PLAN RSP T17

TO ACCOMPANY PLANS DATED 11-2-15

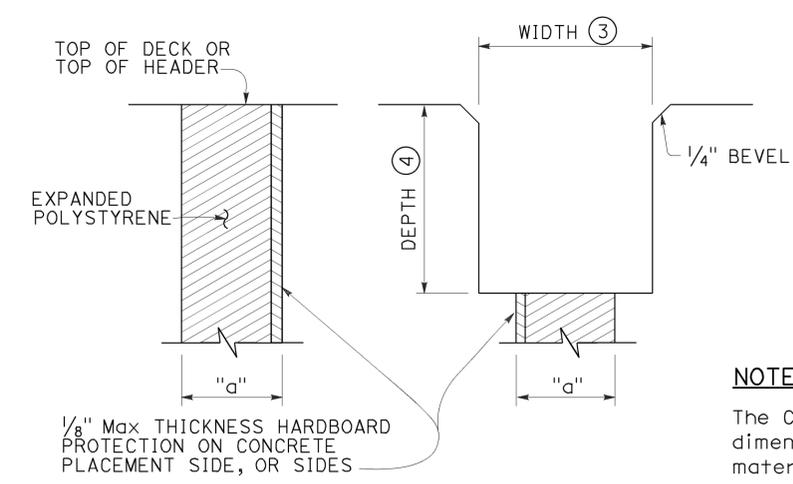


NOTE:
 Type "B" seal shown. Type "A" seals to conform to the general path of seal shown, cuts for bending not required. Bend type "A" seals 3" up into curb or barrier rail on only the low end of the seal.

CONCRETE BARRIER AND SIDEWALK



CONCRETE BARRIER

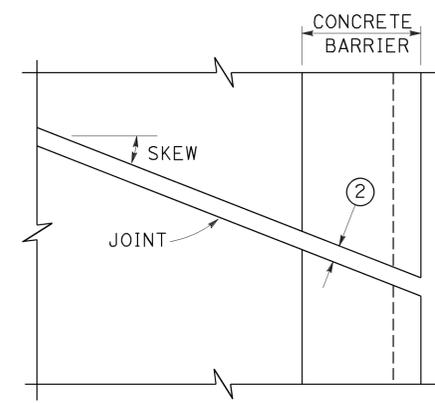


FORMING DETAIL SAWCUT DETAIL

NOTE:
 The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

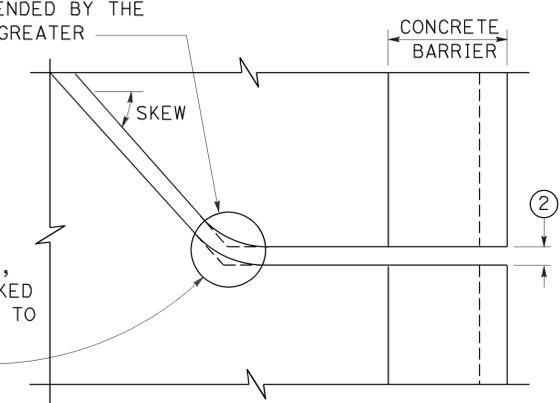
JOINT SEALS DETAILS

Min ϕ RADIUS TO BE 4 TIMES UNCOMPRESSED WIDTH OF SEAL OR AS RECOMMENDED BY THE MANUFACTURER, WHICHEVER IS GREATER



PLAN OF JOINT (SKEW $\leq 20^\circ$)

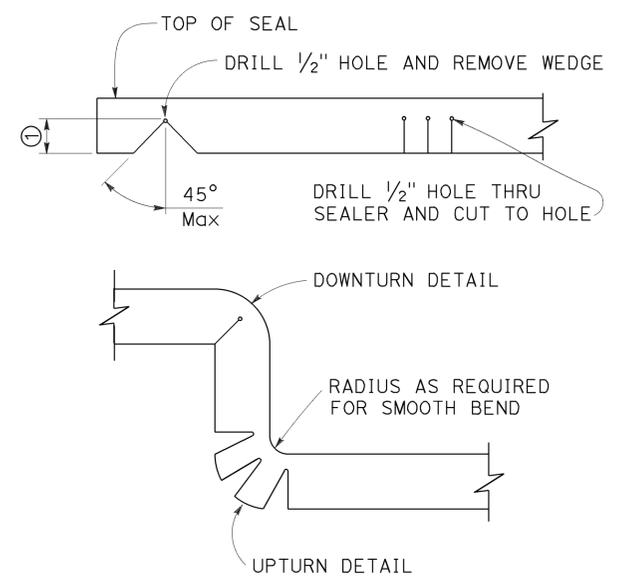
IN LIEU OF SAW CUTTING, THIS AREA MAY BE BLOCKED OUT AND RECONSTRUCTED TO MATCH SAW CUTTING ON BOTH SIDES.



PLAN OF JOINT (SKEW $> 20^\circ$)

NOTES:

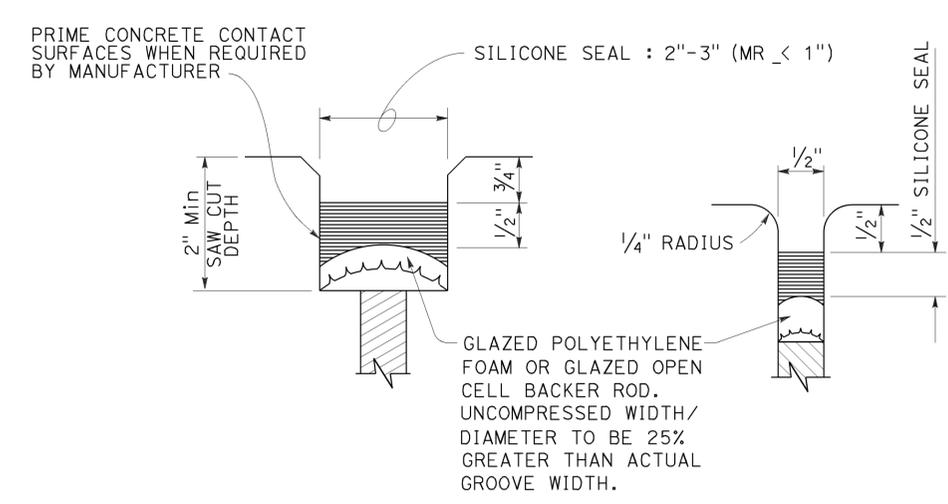
- Make smooth cuts from the bottom of seal to 1/2" clear of top leaving at least one complete cell between the top of the cut and top of the seal. When necessary cut back of seal to clear conduit and round openings.
- Opening in barrier to match width of sawn deck joint.
- Sawcut groove widths shall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



DETAIL A

DIMENSIONS "a" OF JOINT REQUIRED

MOVEMENT RATING (MR) (5)	BRIDGE TYPE	"a" DIMENSION		
		DECK CONCRETE PLACED		
		WINTER	FALL-SPRING	SUMMER
2"	ALL EXCEPT CIP/PS	1 1/2"	1 1/4"	3/4"
	CIP/PS	1 1/4"	1"	1/2"
1 1/2"	ALL EXCEPT CIP/PS	1 1/4"	1"	1/2"
	CIP/PS	1"	3/4"	1/2"
1"	ALL EXCEPT CIP/PS	1"	3/4"	1/2"
	CIP/PS	3/4"	1/2"	1/2"
1/2"	ALL EXCEPT CIP/PS	3/4"	3/4"	1/2"
	CIP/PS	1/2"	1/2"	1/2"

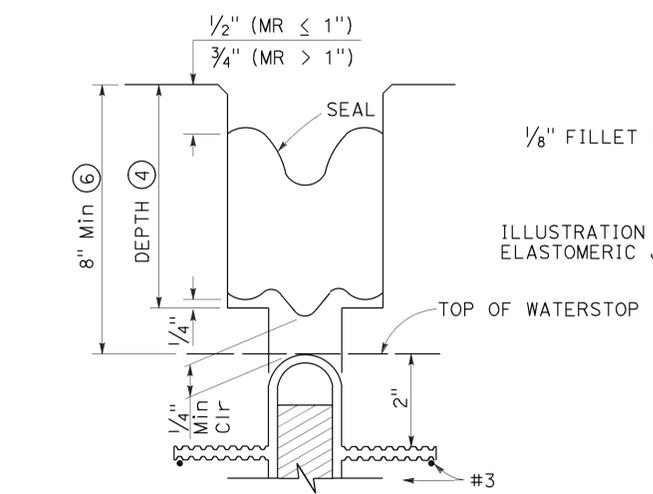


TYPE A SEAL

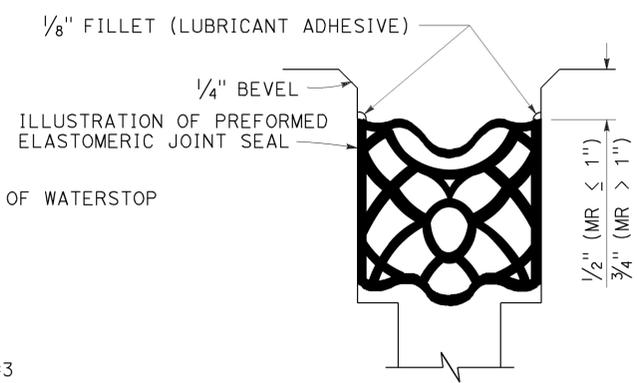
Movement rating : Silicone = 1" Max

TYPE AL SEAL

Longitudinal joints only



TYPE B JOINT SEAL IN MINIMUM WIDTH POSITION (W_2)



TYPE B SEAL

Movement Rating $\leq 2"$

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
JOINT SEALS
(MAXIMUM MOVEMENT RATING = 2")

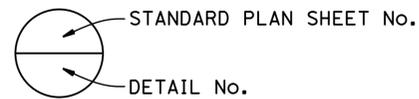
NO SCALE
 RSP B6-21 DATED OCTOBER 30, 2015 SUPERSEDES
 STANDARD PLAN B6-21 DATED MAY 20, 2011 -
 PAGE 283 OF THE STANDARD PLANS BOOK DATED 2010.

INDEX TO PLANS

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

STANDARD PLANS DATED MAY 2010

SHEET NO.	TITLE
A10A	ABBREVIATIONS (SHEET 1 OF 2)
RSP A10B	ABBREVIATIONS (SHEET 2 OF 2)
B6-21	JOINT SEAL (MAXIMUM MOVEMENT RATING = 2")
RSP P10	CONCRETE PAVEMENT DOWEL BAR DETAILS
RSP P14	CONTINUOUSLY REINFORCED CONCRETE PAVEMENT TRANSVERSE CONSTRUCTION JOINT



NOTES: (APPLY TO THIS SHEET ONLY)

----- Indicates existing.

- ① For limits of Bridge Removal (Portion), Structural Concrete, Bridge (Repair), Structure Excavation and Backfill (Bridge) and Galvanic Anode installation, see "GALVANIC ANODE DETAILS" sheet.

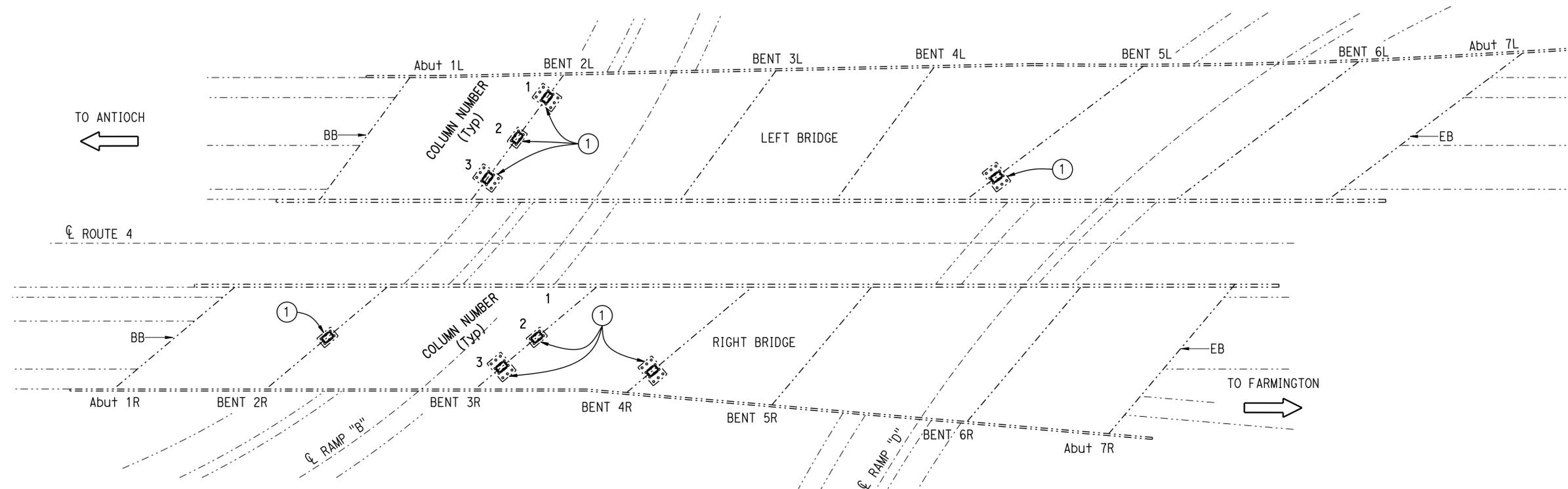
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5	Var	19	31

REGISTERED CIVIL ENGINEER DATE 7-24-15

PLANS APPROVAL DATE 11-2-15

REGISTERED PROFESSIONAL ENGINEER
 Diosdada Acoba
 No. 52003
 Exp. 12-31-16
 CIVIL
 STATE OF CALIFORNIA

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



ROUTE 4/5 CONNECTOR UNDERCROSSING

BR NO. 29-0235L/R, SJ, ROUTE 4, PM R16.01
 1"=30'

ROUTE 4/5 CONNECTOR UNDERCROSSING (29-0235L/R)

QUANTITIES

	LUMP SUM
BRIDGE REMOVAL (PORTION), LOCATION A	43 CY
STRUCTURE EXCAVATION (BRIDGE)	43 CY
STRUCTURE BACKFILL (BRIDGE)	7 CY
STRUCTURAL CONCRETE, BRIDGE (REPAIR)	456 EA
GALVANIC ANODE	

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

 DESIGN ENGINEER 7-14-15	DESIGN	BY D. ACOBA	CHECKED A. FRANK	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	ROUTE 4 & 5 BRIDGES GENERAL PLAN NO.1	
	DETAILS	BY N. KELLEY	CHECKED A. FRANK	LAYOUT	BY N. KELLEY		CHECKED D. ACOBA		VARIABLES
	QUANTITIES	BY D. ACOBA	CHECKED A. FRANK	SPECIFICATIONS	BY S. NELAPATLA		CHECKED S. NELAPATLA		PLANS AND SPECS COMPARED

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

UNIT: 3488
 PROJECT NUMBER & PHASE: 1015000071 1
 CONTRACT NO.: 10-1E1004

DISREGARD PRINTS BEARING EARLIER REVISION DATES

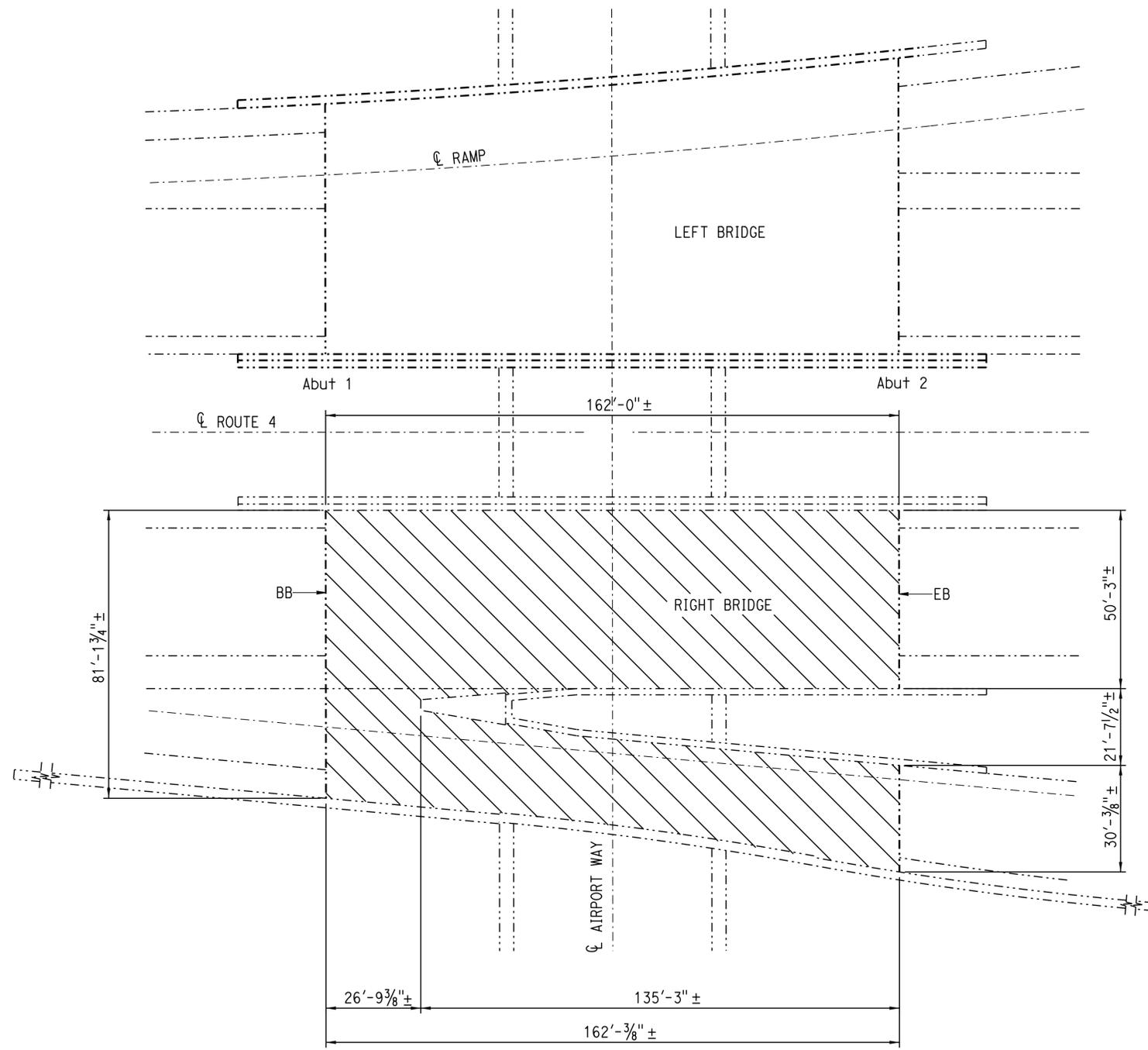
REVISION DATES	SHEET	OF
1-27-15 11-3-15 10-16-15 10-22-15	1	13

FILE => 10_1e1001_agp.dgn

USERNAME => s120300 DATE PLOTTED => 17-NOV-2015 TIME PLOTTED => 15:39

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5	Var	20	31

REGISTERED CIVIL ENGINEER DATE 7-24-15
 REGISTERED PROFESSIONAL ENGINEER
 Diomedes Acoba
 No. 52003
 Exp. 12-31-16
 CIVIL
 STATE OF CALIFORNIA
 PLANS APPROVAL DATE 11-2-15
 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: (APPLY TO THIS SHEET ONLY)
 ----- Indicates existing.
 Indicates limits of prepare concrete bridge deck surface and treat bridge deck with methacrylate.

AIRPORT WAY UNDERCROSSING
 BR NO. 29-0300R, SJ, ROUTE 4, PM R17.56
 1"=20'

AIRPORT WAY UNDERCROSSING (29-0300R)
 QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	13,346 SQFT
TREAT BRIDGE DECK	13,346 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	148 GAL

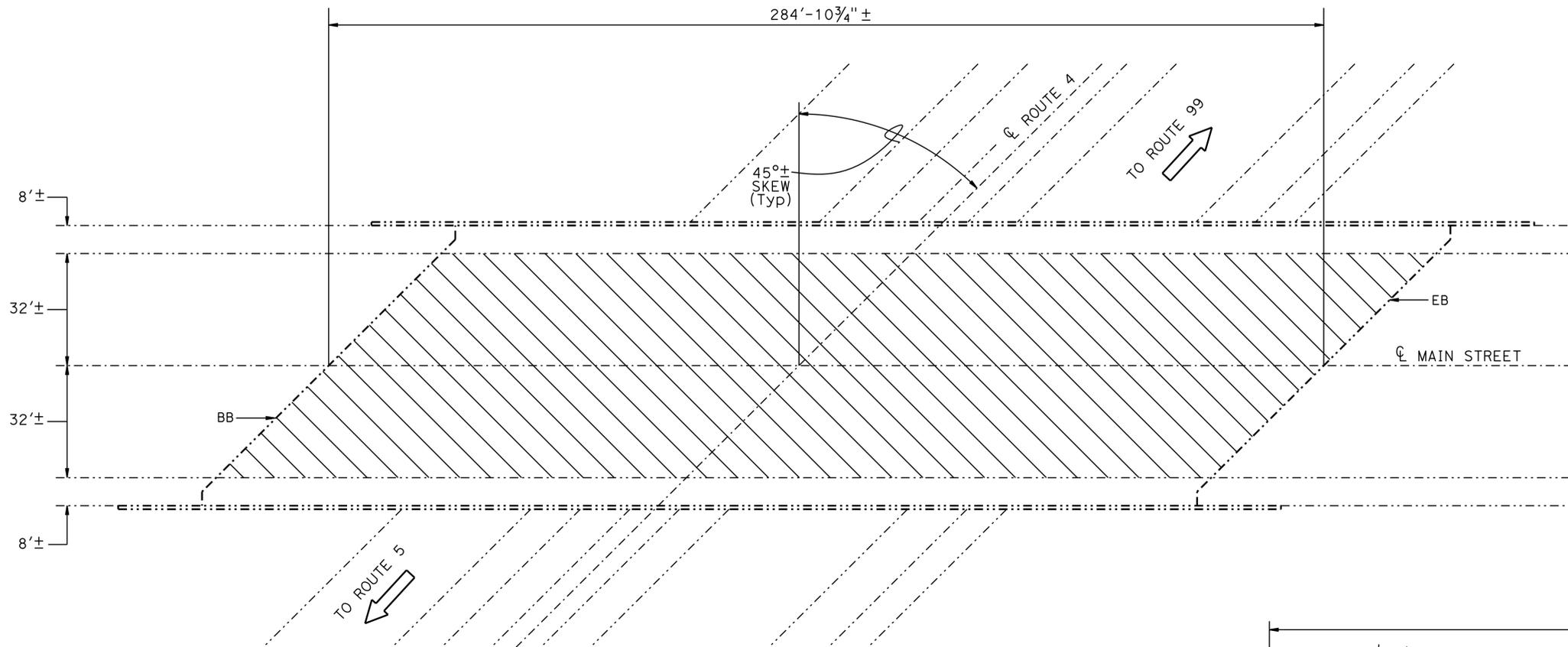
NOTE:
 THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

 DESIGN ENGINEER 7-14-15	DESIGN	BY D. ACOBA	CHECKED A. FRANK	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTE 4 & 5 BRIDGES GENERAL PLAN NO.2	
	DETAILS	BY N. KELLEY	CHECKED A. FRANK	LAYOUT	BY N. KELLEY			CHECKED D. ACOBA		VARIES
	QUANTITIES	BY D. ACOBA	CHECKED A. FRANK	SPECIFICATIONS	BY S. NELAPATLA	PLANS AND SPECS COMPARED S. NELAPATLA	VARIOUS			
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3488 PROJECT NUMBER & PHASE: 1015000071 1	CONTRACT NO.: 10-1E1004	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 1-27-15 9-29-15 10-8-15 6-2-15 SHEET 2 OF 13

USERNAME => s120300 DATE PLOTTED => 17-NOV-2015 TIME PLOTTED => 15:39

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5	Var	21	31

REGISTERED CIVIL ENGINEER *[Signature]* DATE 7-24-15
 PLANS APPROVAL DATE 11-2-15
 REGISTERED PROFESSIONAL ENGINEER
 Diosdada Acoba
 No. 52003
 Exp. 12-31-16
 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: (APPLY TO THIS SHEET ONLY)

----- Indicates existing.

Indicates limits of prepare concrete bridge deck surface and treat bridge deck with methacrylate.



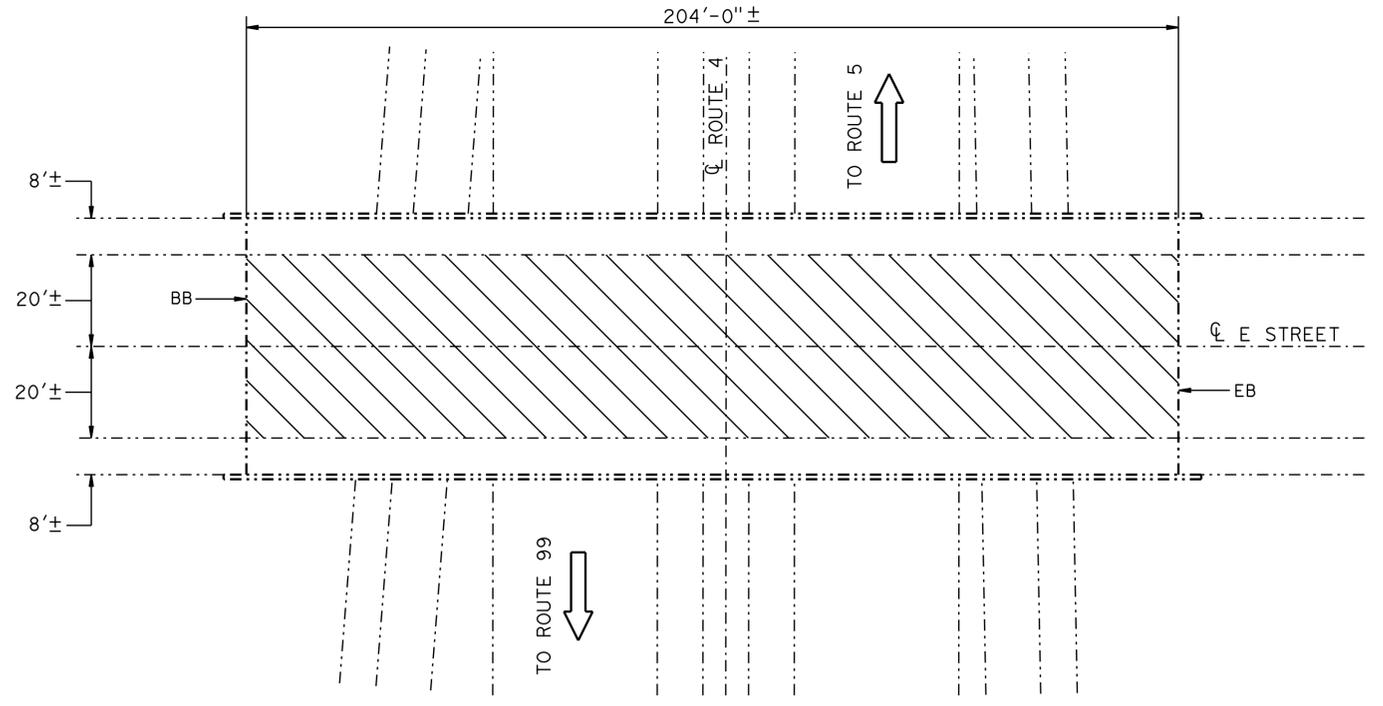
MAIN STREET OVERCROSSING

BR NO. 29-0303, ROUTE 4, SJ, PM R18.06
 1" = 20'

MAIN STREET OVERCROSSING (29-0303)

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	18,234 SQFT
TREAT BRIDGE DECK	18,234 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	203 GAL



E STREET OVERCROSSING

BR NO. 29-0304, ROUTE 4, SJ, PM R18.52
 1" = 20'

E STREET OVERCROSSING (29-0304)

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	8,160 SQFT
TREAT BRIDGE DECK	8,160 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	91 GAL

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

[Signature]
 DESIGN ENGINEER 7-14-15

DESIGN	BY D. ACOBA	CHECKED A. FRANK
DETAILS	BY N. KELLEY	CHECKED A. FRANK
QUANTITIES	BY D. ACOBA	CHECKED A. FRANK

LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
LAYOUT	BY N. KELLEY
SPECIFICATIONS	BY S. NELAPATLA

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIES
 POST MILE VARIOUS
ROUTE 4 & 5 BRIDGES
GENERAL PLAN NO.3

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5	Var	22	31

REGISTERED CIVIL ENGINEER DATE 7-24-15

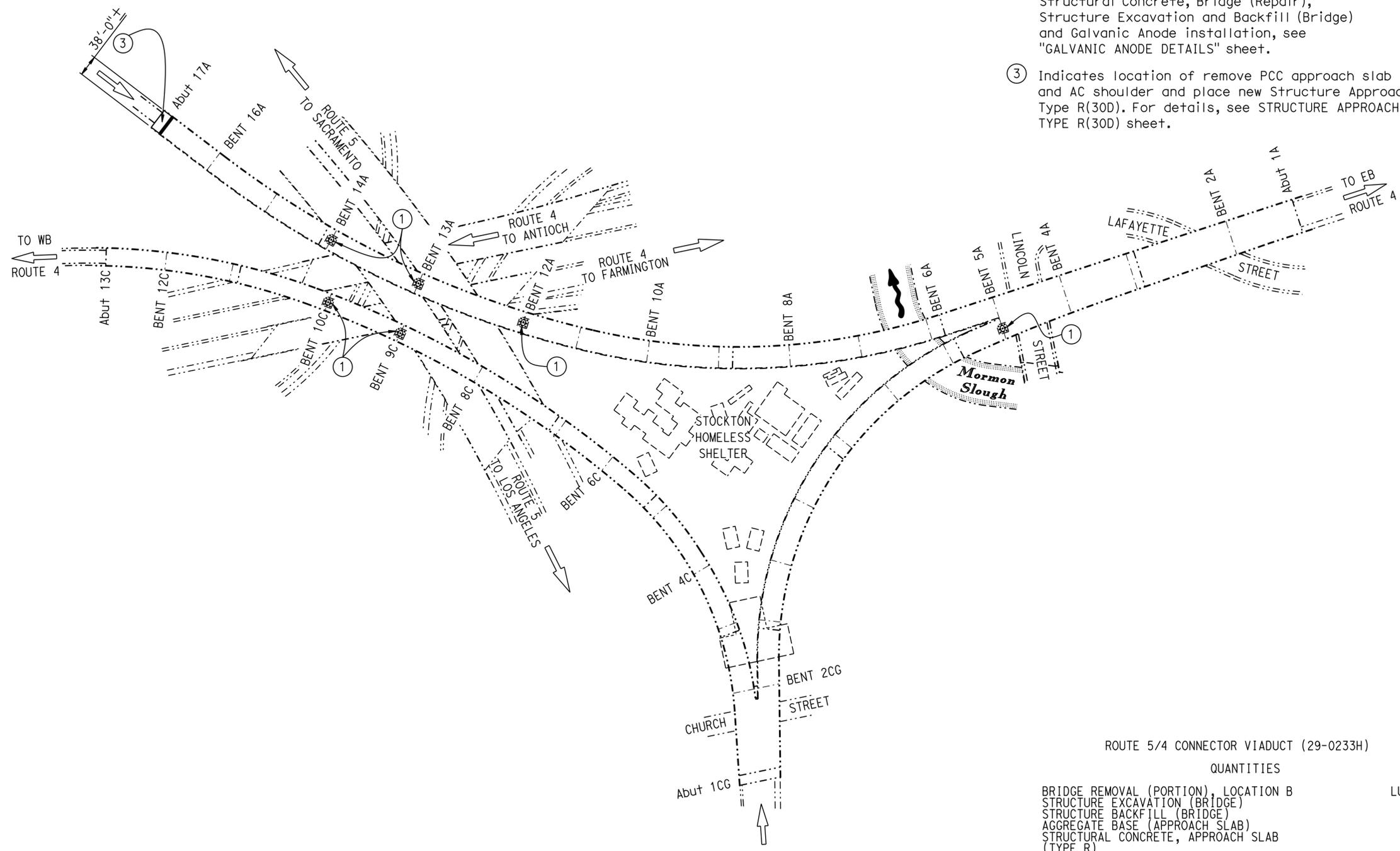
PLANS APPROVAL DATE 11-2-15

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REGISTERED PROFESSIONAL ENGINEER
 Diosdada Acoba
 No. 52003
 Exp. 12-31-16
 CIVIL
 STATE OF CALIFORNIA

NOTES: (APPLY TO THIS SHEET ONLY)

- Indicates existing.
- Indicates location of clean expansion joint and install new joint seal. For details, see "JOINT SEAL DETAILS" sheet.
- ① For limits of Bridge Removal (Portion), Structural Concrete, Bridge (Repair), Structure Excavation and Backfill (Bridge) and Galvanic Anode installation, see "GALVANIC ANODE DETAILS" sheet.
- ③ Indicates location of remove PCC approach slab and AC shoulder and place new Structure Approach Type R(30D). For details, see STRUCTURE APPROACH TYPE R(30D) sheet.



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



ROUTE 5/4 CONNECTOR VIADUCT

BR NO. 29-0233H, SJ, ROUTE 5, PM 25.87
 NO SCALE

ROUTE 5/4 CONNECTOR VIADUCT (29-0233H)

QUANTITIES

	LUMP	SUM
BRIDGE REMOVAL (PORTION), LOCATION B	39	CY
STRUCTURE EXCAVATION (BRIDGE)	39	CY
STRUCTURE BACKFILL (BRIDGE)	11	CY
AGGREGATE BASE (APPROACH SLAB)	53	CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	11	CY
STRUCTURAL CONCRETE, BRIDGE (REPAIR)	29	CF
PAVING NOTCH EXTENSION	39	LF
JOINT SEAL (MR 1 1/2")	608	EA
GALVANIC ANODE		

DESIGN ENGINEER <i>D. Acoba</i> 7-14-15	DESIGN	BY D. ACOBA	CHECKED A. FRANK	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
	DETAILS	BY N. KELLEY	CHECKED A. FRANK	LAYOUT	BY N. KELLEY
	QUANTITIES	BY D. ACOBA	CHECKED A. FRANK	SPECIFICATIONS	BY S. NELAPATLA

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIES
 POST MILE VARIOUS

ROUTE 4 & 5 BRIDGES
GENERAL PLAN NO.4

UNIT: 3488
 PROJECT NUMBER & PHASE: 1015000071 1 CONTRACT NO.: 10-1E1004

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
4-3-15 11-3-15 10-15-15 10-22-15	4	13

USERNAME => s120300 DATE PLOTTED => 17-NOV-2015 TIME PLOTTED => 15:39

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5	Var	23	31

NOTES: (APPLY TO THIS SHEET ONLY)

----- Indicates existing.

 Indicates limits of prepare concrete bridge deck surface and treat bridge deck with methacrylate.

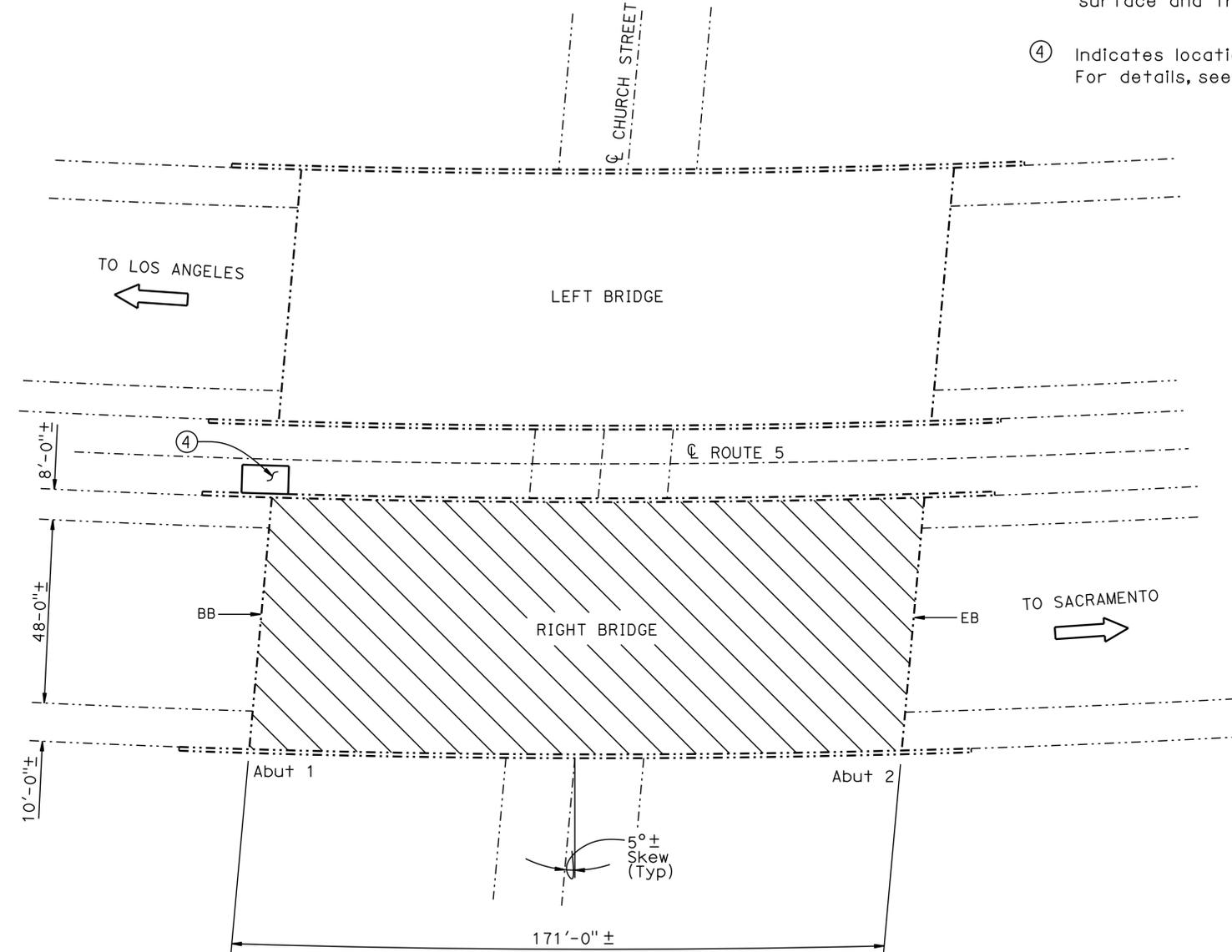
④ Indicates location of Modify Concrete Slope Paving. For details, see "JOINT SEAL DETAILS" sheet.

7-24-15
REGISTERED CIVIL ENGINEER DATE

11-2-15
PLANS APPROVAL DATE

Diosdada Acoba
No. 52003
Exp. 12-31-16
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.



CHURCH STREET UNDERCROSSING

BR NO. 29-0231R, ROUTE 5, SJ, PM 25.99
1" = 20'

CHURCH STREET UNDERCROSSING (29-0231R)

QUANTITIES

MODIFY SLOPE PAVING	11	CY
PREPARE CONCRETE BRIDGE DECK SURFACE	11,286	SQFT
TREAT BRIDGE DECK	11,286	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	125	GAL

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

Matthew W. Kelley
7-14-15
DESIGN ENGINEER

DESIGN	BY D. ACOBA	CHECKED A. FRANK
DETAILS	BY N. KELLEY	CHECKED A. FRANK
QUANTITIES	BY D. ACOBA	CHECKED A. FRANK

LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
LAYOUT	BY N. KELLEY
SPECIFICATIONS	BY S. NELAPATLA

CHECKED D. ACOBA	PLANS AND SPECS COMPARED S. NELAPATLA
------------------	---------------------------------------

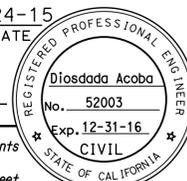
STATE OF CALIFORNIA	DIVISION OF MAINTENANCE
DEPARTMENT OF TRANSPORTATION	STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIES
POST MILE	VARIOUS

ROUTE 4 & 5 BRIDGES	
GENERAL PLAN NO.5	

UNIT: 3488	PROJECT NUMBER & PHASE: 1015000071 1	CONTRACT NO.: 10-1E1004
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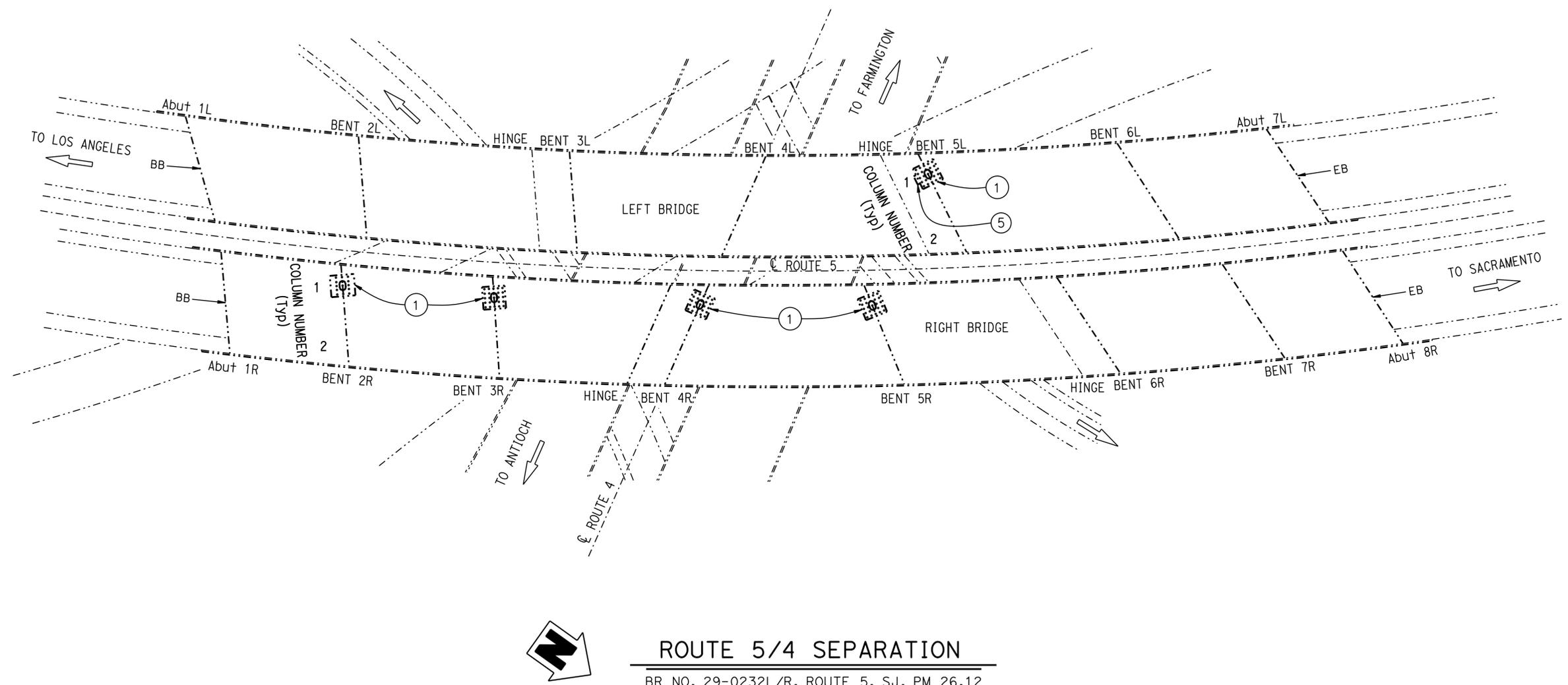
DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 5 OF 13
	1-27-15 9-2-15 9-29-15 10-8-15	

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5	Var	24	31
REGISTERED CIVIL ENGINEER			DATE	7-24-15	
PLANS APPROVAL DATE			11-2-15		
					
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.</small>					

NOTES: (APPLY TO THIS SHEET ONLY)

----- Indicates existing.

- ① For limits of Bridge Removal (Portion), Structural Concrete, Bridge (Repair), Structure Excavation and Backfill (Bridge) and Galvanic Anode installation, see "GALVANIC ANODE DETAILS" sheet.
- ⑤ Remove electrical pull box.



ROUTE 5/4 SEPARATION

BR NO. 29-0232L/R, ROUTE 5, SJ, PM 26.12
1" = 40'

ROUTE 5/4 SEPARATION (29-0232L/R)

QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION C	LUMP SUM
STRUCTURE EXCAVATION (BRIDGE)	27 CY
STRUCTURE BACKFILL (BRIDGE)	27 CY
STRUCTURAL CONCRETE, BRIDGE (REPAIR)	3 CY
GALVANIC ANODE	216 EA

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


DESIGN ENGINEER
7-14-15

DESIGN	BY D. ACOBA	CHECKED A. FRANK
DETAILS	BY N. KELLEY	CHECKED A. FRANK
QUANTITIES	BY D. ACOBA	CHECKED A. FRANK

LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
LAYOUT	BY N. KELLEY CHECKED D. ACOBA
SPECIFICATIONS	BY S. NELAPATLA CHECKED S. NELAPATLA PLANS AND SPECS COMPARED

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIES
POST MILE	VARIOUS

ROUTE 4 & 5 BRIDGES GENERAL PLAN NO.6

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

UNIT: 3488
PROJECT NUMBER & PHASE: 1015000071 1
CONTRACT NO.: 10-1E1004

DISREGARD PRINTS BEARING EARLIER REVISION DATES

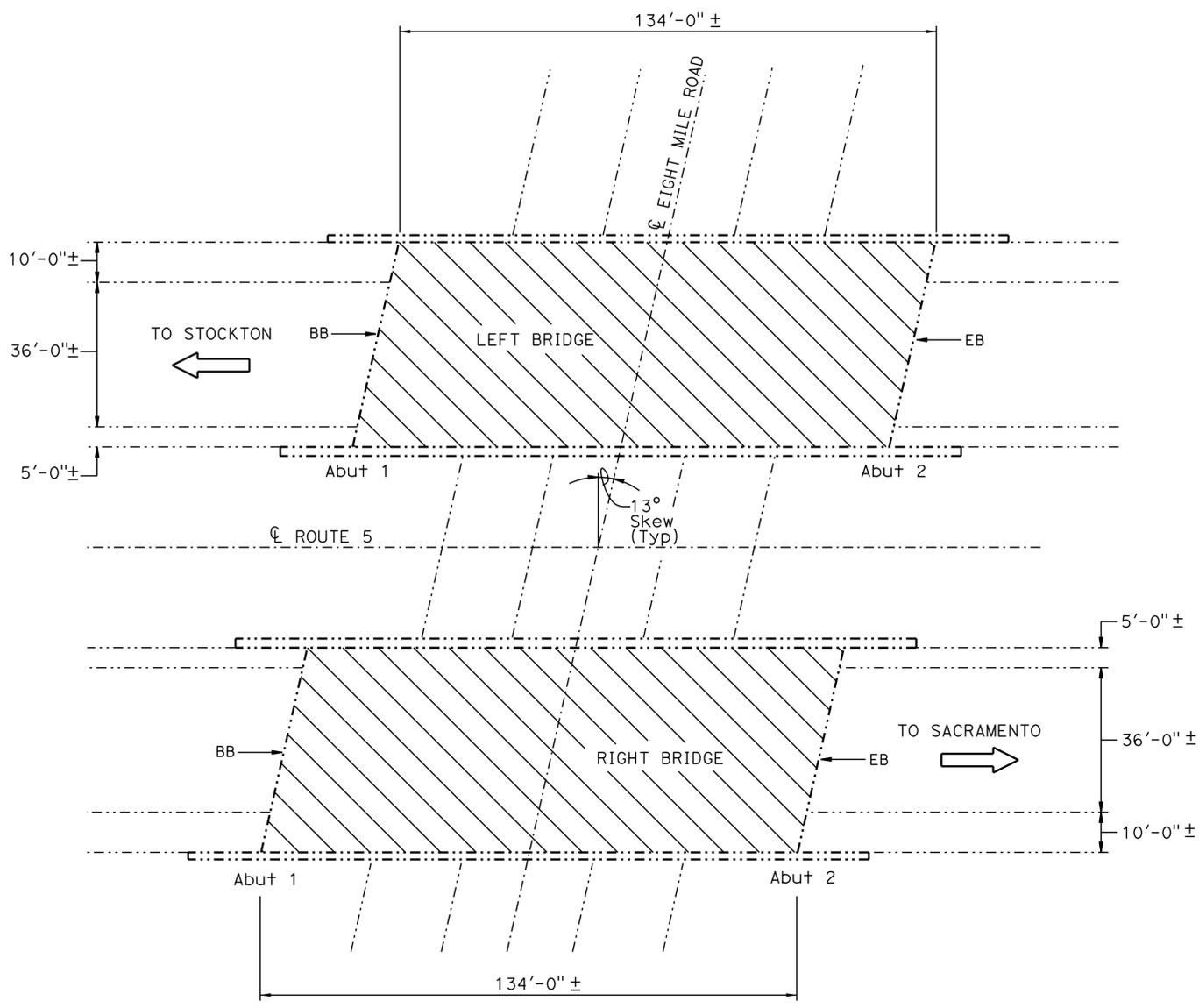
REVISION DATES	SHEET	OF
1-27-15 10-15-15 10-22-15 11-3-15	6	13

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5	Var	25	31

REGISTERED CIVIL ENGINEER DATE 7-24-15
 REGISTERED CIVIL ENGINEER No. 52003 Exp. 12-31-16
 PLANS APPROVAL DATE 11-2-15
 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: (APPLY TO THIS SHEET ONLY)

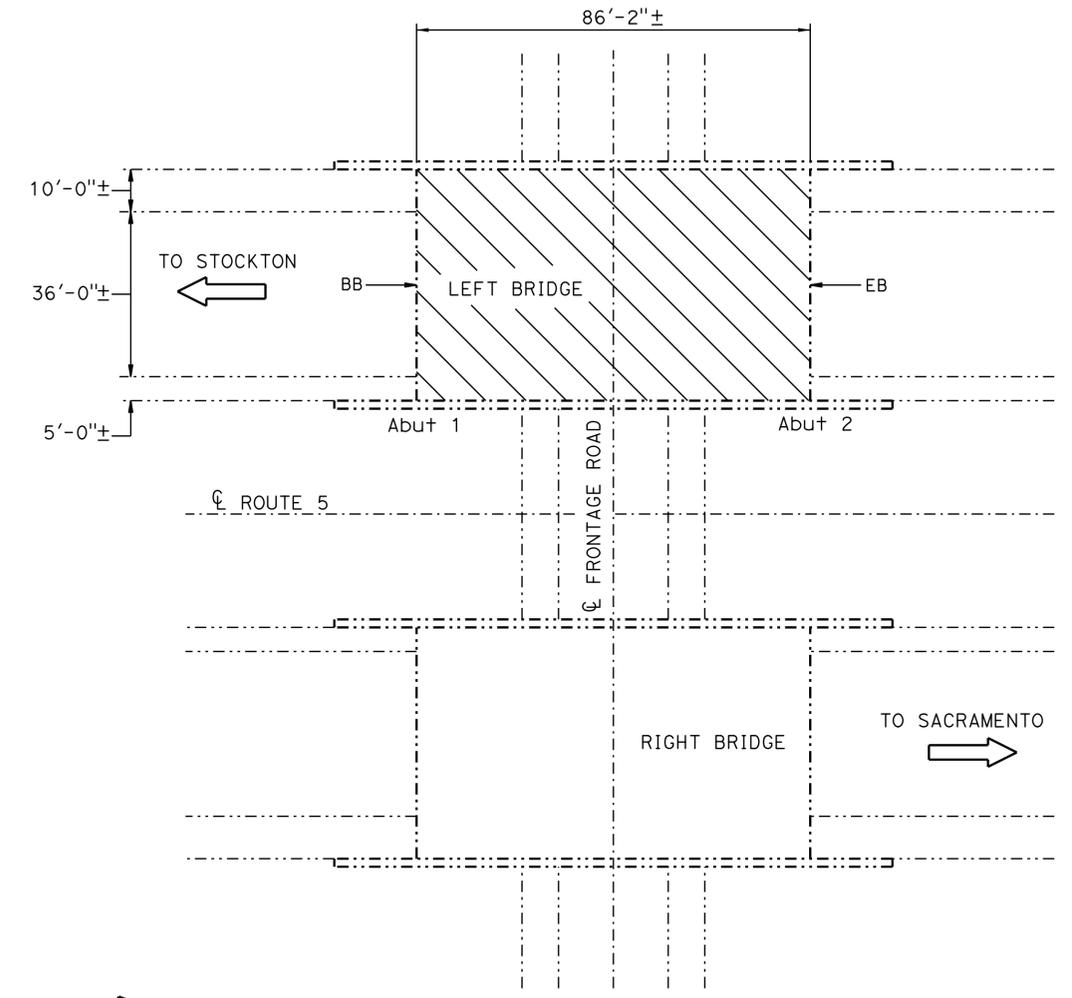
- Indicates existing.
-  Indicates limits of prepare concrete bridge deck surface and treat bridge deck with methacrylate.



EIGHT MILE ROAD UNDERCROSSING
 BR NO. 29-0209L/R, ROUTE 5, SJ, PM 35.30
 1" = 20'

EIGHT MILE ROAD UNDERCROSSING (29-0209L/R)	
QUANTITIES	
PREPARE CONCRETE BRIDGE DECK SURFACE	13,668 SQFT
TREAT BRIDGE DECK	13,668 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	152 GAL

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



THORNTON ROAD CONNECTOR UNDERCROSSING
 BR NO. 29-0254L, ROUTE 5, SJ, PM 38.06
 1" = 20'

THORNTON ROAD CONNECTOR UNDERCROSSING (29-0254L)	
QUANTITIES	
PREPARE CONCRETE BRIDGE DECK SURFACE	4,394 SQFT
TREAT BRIDGE DECK	4,394 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	49 GAL

 DESIGN ENGINEER	DESIGN	BY D. ACOBA	CHECKED A. FRANK	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
	DETAILS	BY N. KELLEY	CHECKED A. FRANK	LAYOUT	BY N. KELLEY
	QUANTITIES	BY D. ACOBA	CHECKED A. FRANK	SPECIFICATIONS	BY S. NELAPATLA

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE	BRIDGE NO.
	STRUCTURE MAINTENANCE DESIGN	VARIES
		POST MILE
		VARIOUS

ROUTE 4 & 5 BRIDGES	
GENERAL PLAN NO.7	
REVISION DATES	SHEET OF
1-27-15 10-8-15 9-2-15 9-24-15	7 13

USERNAME => s120300 DATE PLOTTED => 17-NOV-2015 TIME PLOTTED => 15:39

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5	Var	26	31

REGISTERED CIVIL ENGINEER DATE 7-24-15

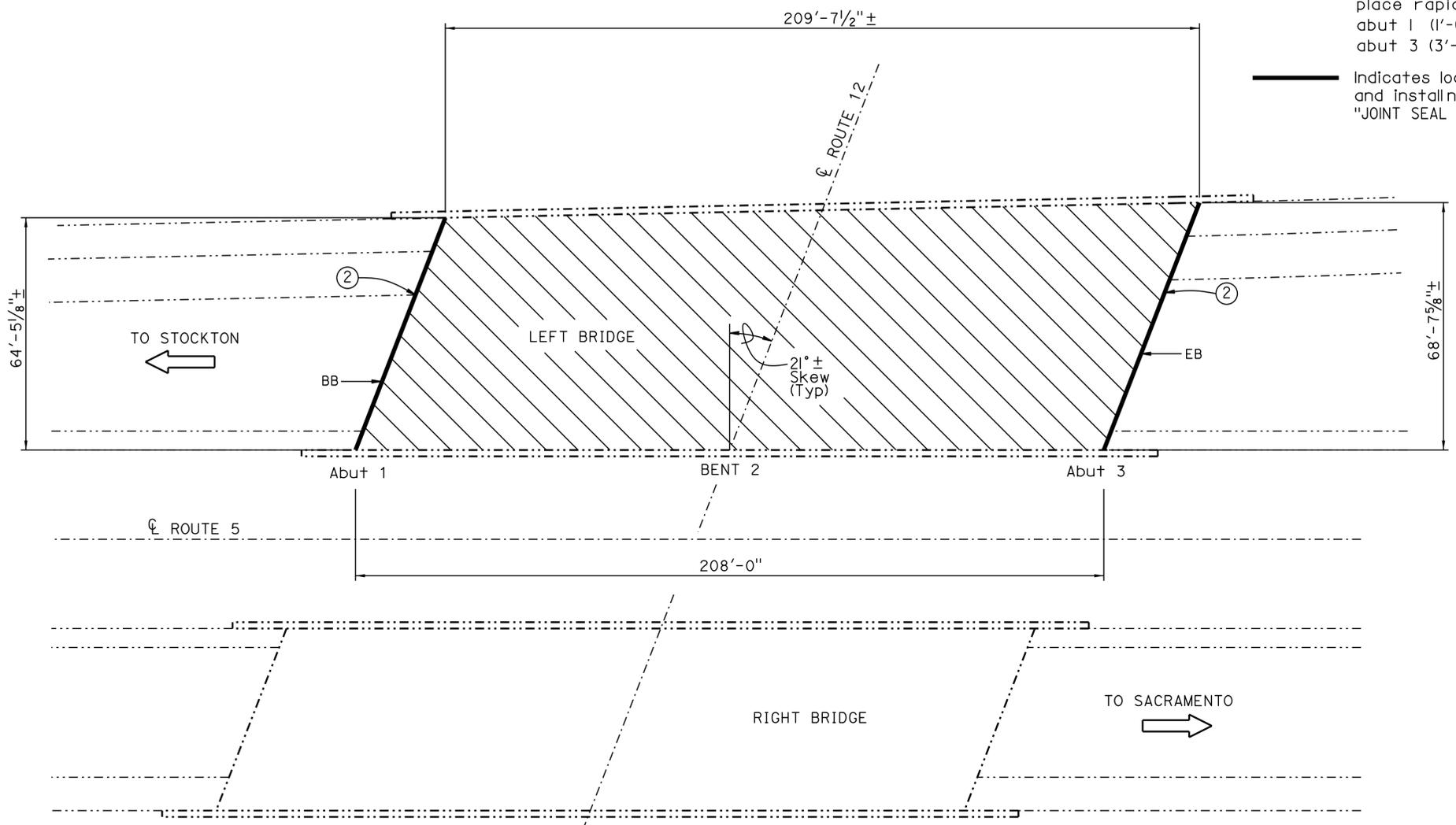
PLANS APPROVAL DATE 11-2-15

REGISTERED PROFESSIONAL ENGINEER
 Diosdada Acoba
 No. 52003
 Exp. 12-31-16
 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: (APPLY TO THIS SHEET ONLY)

- Indicates existing.
-  Indicates limits of prepare concrete bridge deck surface and treat bridge deck with methacrylate.
- ② Indicates location of unsound concrete and place rapid setting concrete (patch)
 abut 1 (1'-6"± x 8"± x 3"±)
 abut 3 (3'-0"± x 8"± x 3"±)
-  Indicates location of clean expansion joint and install new joint seal. For details, see "JOINT SEAL DETAILS" sheet.



ROUTE 5/12 SEPARATION
 BR NO. 29-0255L, ROUTE 5, SJ, PM 39.55
 1" = 20'

ROUTE 5/12 SEPARATION (29-0255L)

QUANTITIES

RAPID SETTING CONCRETE (PATCH)	0.8	CF
REMOVE UNSOUND CONCRETE	0.8	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	13,892	SQFT
TREAT BRIDGE DECK	13,892	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	154	GAL
CLEAN EXPANSION JOINT	145	LF
JOINT SEAL (MR 1")	145	LF

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


 DESIGN ENGINEER 7-14-15

DESIGN	BY D. ACOBA	CHECKED A. FRANK	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY N. KELLEY	CHECKED A. FRANK	LAYOUT	BY N. KELLEY
QUANTITIES	BY D. ACOBA	CHECKED A. FRANK	SPECIFICATIONS	BY S. NELAPATLA

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIES
 POST MILE VARIOUS
ROUTE 4 & 5 BRIDGES
GENERAL PLAN NO.8

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

UNIT: 3488
 PROJECT NUMBER & PHASE: 1015000071 1 CONTRACT NO.: 10-1E1004

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
1-27-15 9-2-15 9-28-15 10-8-15	8	13

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5	Var	27	31

7-24-15
REGISTERED CIVIL ENGINEER DATE

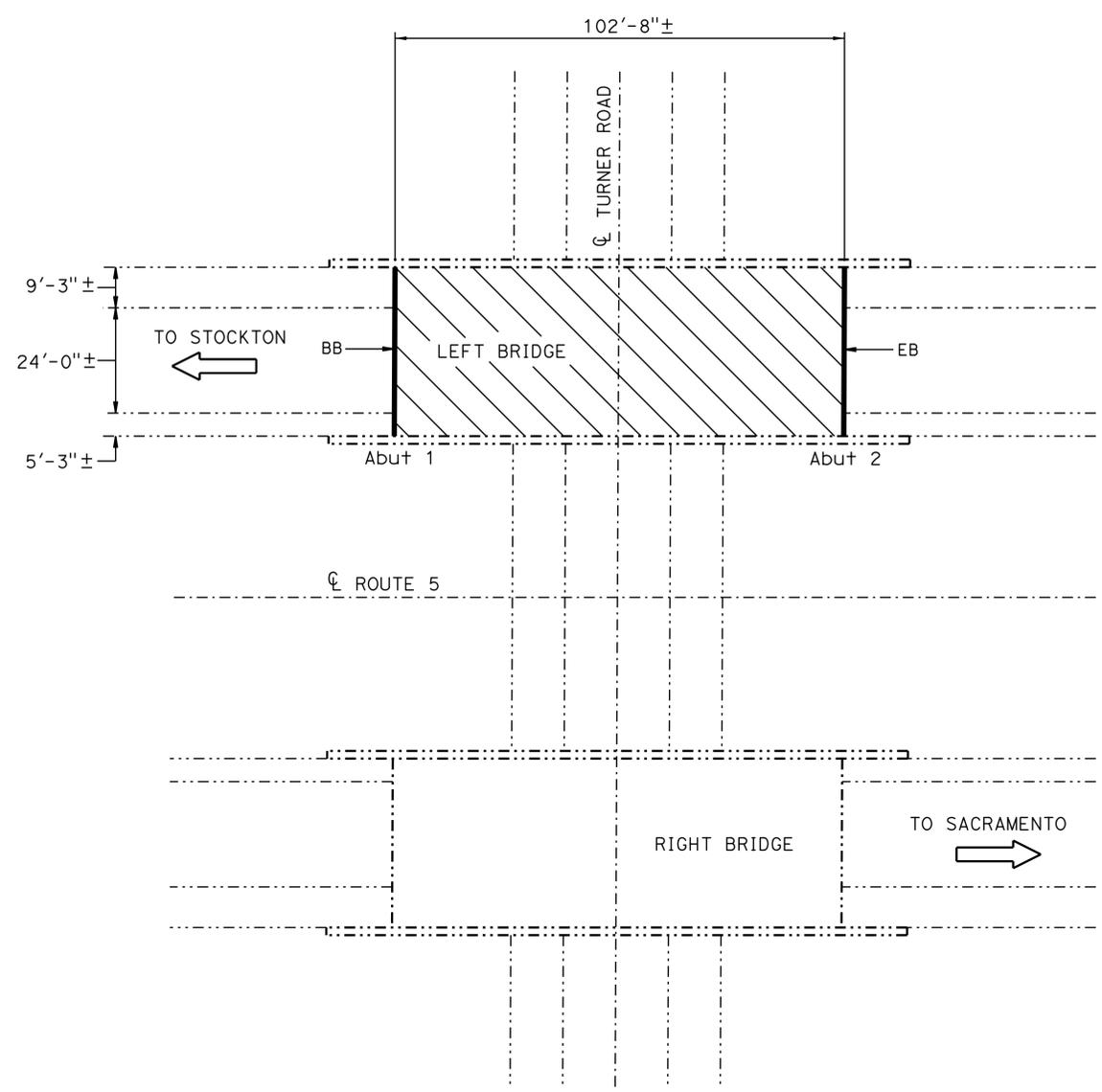
11-2-15
PLANS APPROVAL DATE

Diosdada Acoba
No. 52003
Exp. 12-31-16
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: (APPLY TO THIS SHEET ONLY)

- Indicates existing.
-  Indicates limits of prepare concrete bridge deck surface and treat bridge deck with methacrylate.
-  Indicates limits of clean expansion joint and install new joint seal. For details, see "JOINT SEAL DETAILS" sheet.
- ② Indicates location of remove unsound concrete and place rapid setting concrete (patch). (2'-0"±X6"±X3"±)



TURNER ROAD UNDERCROSSING

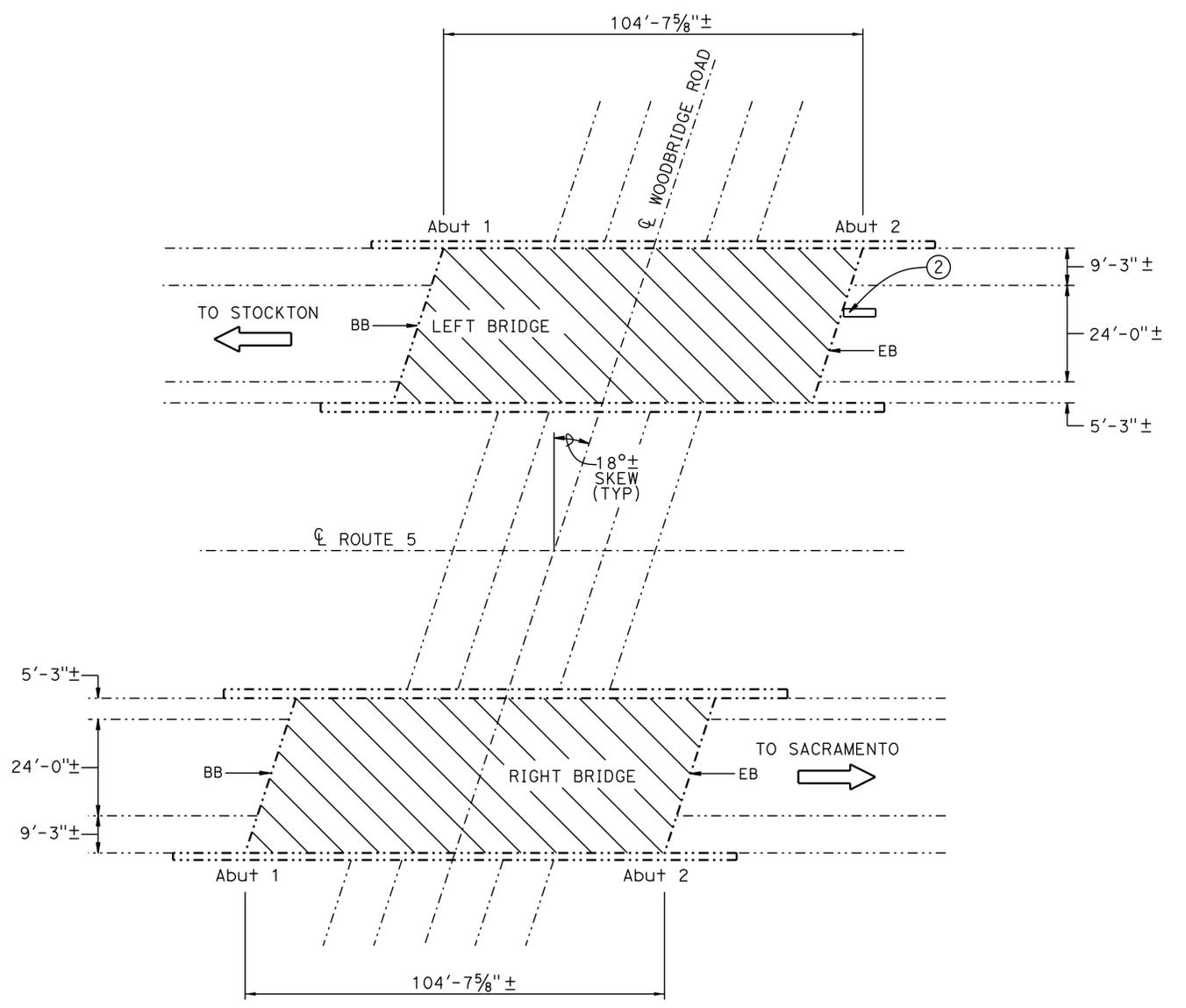
BR NO. 29-0245L, ROUTE 5, SJ, PM 41.66
1" = 20'

TURNER ROAD UNDERCROSSING (29-0245L)

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	3,953	SQFT
TREAT BRIDGE DECK	3,953	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	44	GAL
CLEAN EXPANSION JOINT	80	LF
JOINT SEAL (MR 1")	80	LF

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



WOODBIDGE ROAD UNDERCROSSING

BR NO. 29-0249L/R, ROUTE 5, SJ, PM 42.67
1" = 20'

WOODBIDGE ROAD UNDERCROSSING (29-0249L/R)

QUANTITIES

RAPID SETTING CONCRETE (PATCH)	0.3	CF
REMOVE UNSOUND CONCRETE	0.3	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	8,057	SQFT
TREAT BRIDGE DECK	8,057	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	90	GAL

 DESIGN ENGINEER 7-14-15	DESIGN	BY D. ACOBA	CHECKED A. FRANK	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
	DETAILS	BY N. KELLEY	CHECKED A. FRANK	LAYOUT	BY N. KELLEY
	QUANTITIES	BY D. ACOBA	CHECKED A. FRANK	SPECIFICATIONS	BY S. NELAPATLA

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIES
POST MILE VARIOUS

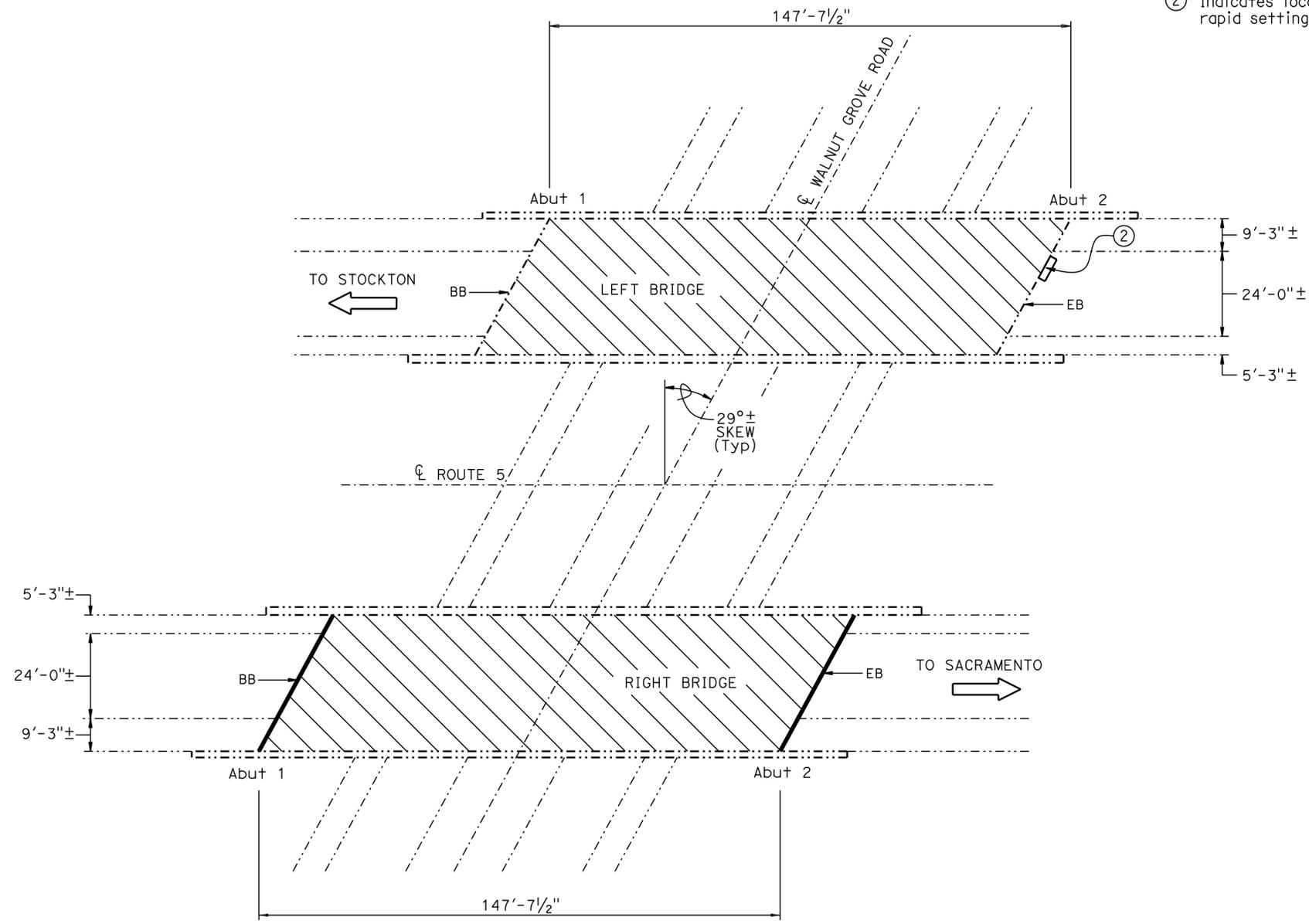
ROUTE 4 & 5 BRIDGES
GENERAL PLAN NO.9

USERNAME => s120300 DATE PLOTTED => 17-NOV-2015 TIME PLOTTED => 15:39

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5	Var	28	31
REGISTERED CIVIL ENGINEER			DATE	7-24-15	
PLANS APPROVAL DATE			11-2-15		
REGISTERED PROFESSIONAL ENGINEER Diosdada Acoba No. 52003 Exp. 12-31-16 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: (APPLY TO THIS SHEET ONLY)

- Indicates existing.
-  Indicates limits of prepare concrete bridge deck surface and treat bridge deck with methacrylate.
-  Indicates limits of clean expansion joint and install new joint seal. For details, see "JOINT SEAL DETAILS" sheet.
- ② Indicates location of remove unsound concrete and place rapid setting concrete (patch). (7'-0"±X6"±X3"±).



WALNUT GROVE ROAD UNDERCROSSING

BR NO. 29-0250L/R, ROUTE 5, SJ, PM 47.61
1" = 20'

WALNUT GROVE ROAD UNDERCROSSING (29-0250L/R)
QUANTITIES

RAPID SETTING CONCRETE (PATCH)	0.9	CF
REMOVE UNSOUND CONCRETE	0.9	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	11,368	SQFT
TREAT BRIDGE DECK	11,368	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	126	GAL
CLEAN EXPANSION JOINT	90	LF
JOINT SEAL (MR 1")	90	LF

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

 DESIGN ENGINEER	DESIGN	BY D. ACOBA	CHECKED A. FRANK	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTE 4 & 5 BRIDGES GENERAL PLAN NO.10
	DETAILS	BY N. KELLEY	CHECKED A. FRANK	LAYOUT	BY N. KELLEY			CHECKED D. ACOBA	
QUANTITIES	BY D. ACOBA	CHECKED A. FRANK	SPECIFICATIONS	BY S. NELAPATLA	CHECKED S. NELAPATLA	PLANS AND SPECS COMPARED	POST MILE	VARIOUS	

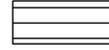
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

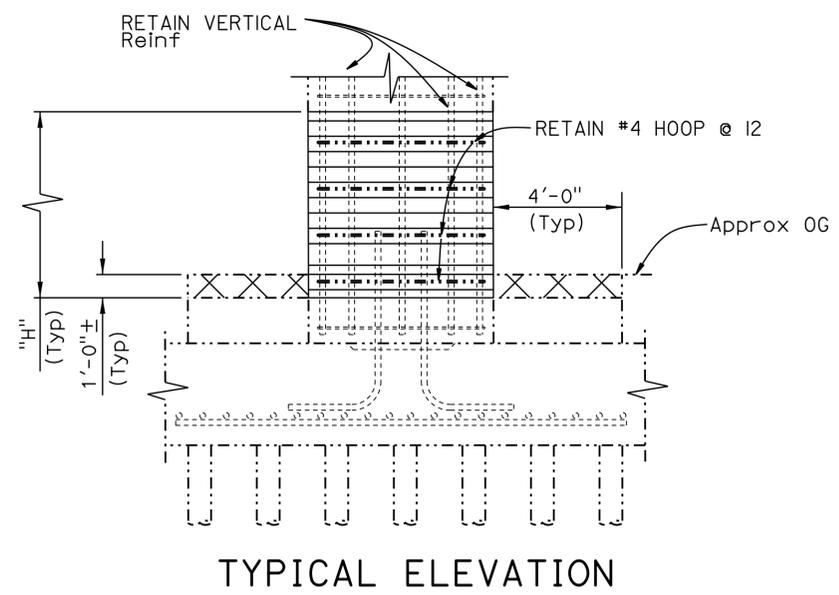
UNIT: 3488	PROJECT NUMBER & PHASE: 1015000071 1	CONTRACT NO.: 10-1E1004	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET	OF
				1-27-15 9-29-15 10-8-15 7-10-15	10	13

FILE => 10_1e1001_jgp.dgn

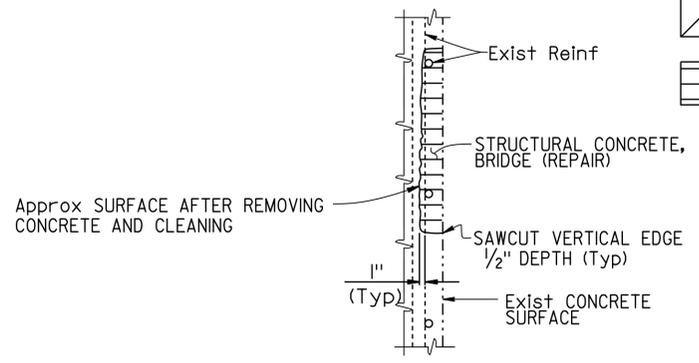
USERNAME => s120300 DATE PLOTTED => 17-NOV-2015 TIME PLOTTED => 15:39

NOTES: (APPLY TO THIS SHEET ONLY)

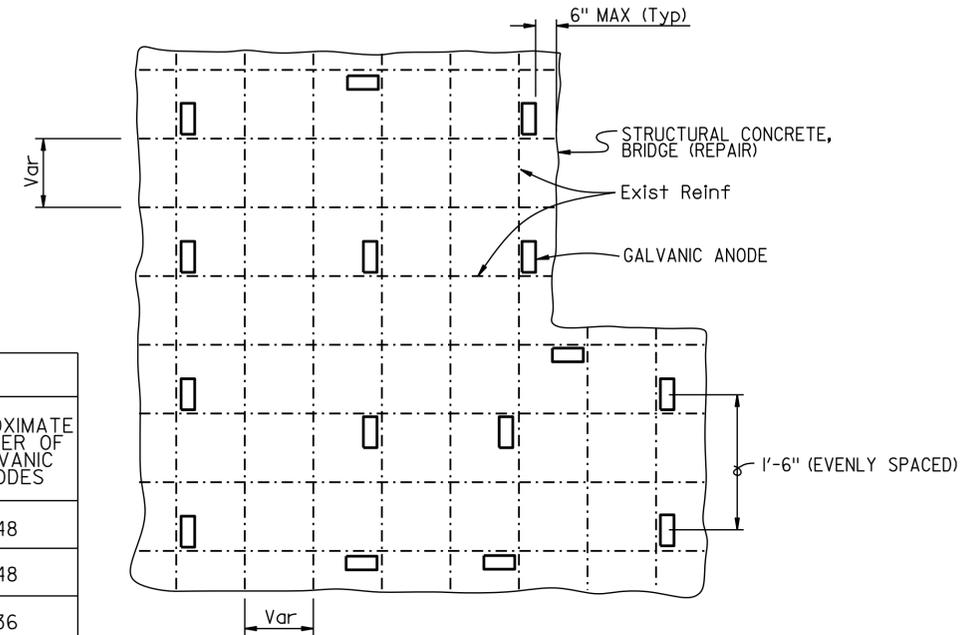
- Indicates existing structure.
-  Indicates limits of Structure Excavation (Bridge).
-  Indicates limits of Structure Backfill (Bridge).
-  Indicates limits of Bridge Removal (Portion) and Structural Concrete, Bridge (Repair).



TYPICAL ELEVATION



COLUMN REPAIR DETAIL

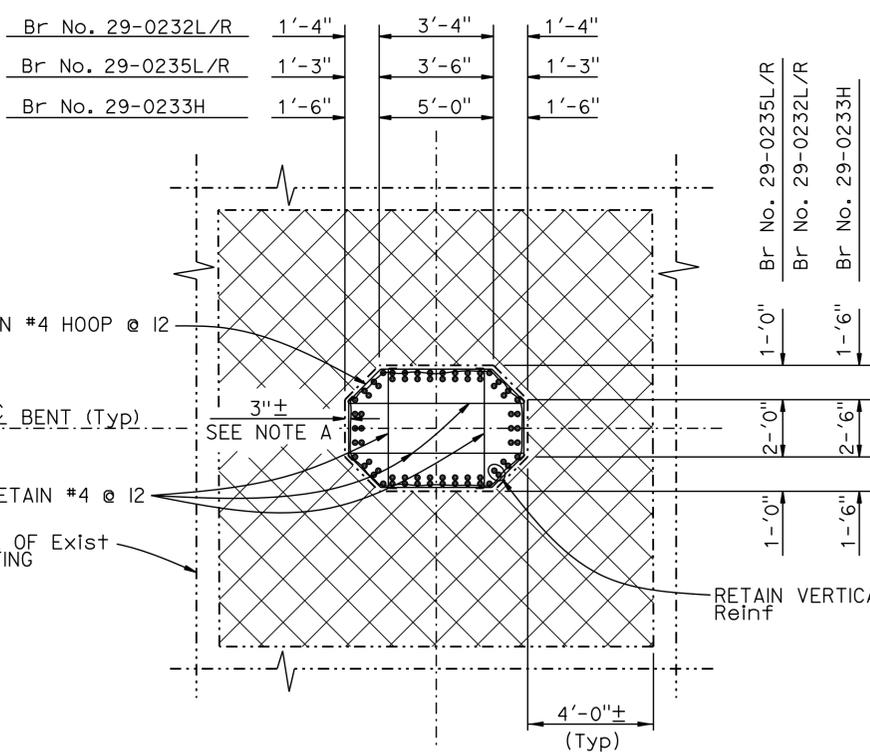


GALVANIC ANODE LAYOUT DETAIL

Note: all galvanic anodes shall be installed with embedding mortar.

NOTES:

- The Engineer determines the exact locations of bridge removal (portion).
- Bridge removal (portion) is limited to no more than 25% of the column perimeter at any one time.
- * Only work on either column 12A, 13A, or 14A at any one time.
- ** Only work on either column 9C, or 10C at any one time.



TYPICAL PLAN AT TOP OF FOOTING

Br No. 29-0235L/R
 Br No. 29-0232L/R
 Br No. 29-0233H

NO SCALE

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

BRIDGE REMOVAL (PORTION) AND STRUCTURAL CONCRETE, BRIDGE (REPAIR) TABLE					
BRIDGE NUMBER	BENT	COLUMN NUMBER	"H" (F+)	PERIMETER (F+)	APPROXIMATE NUMBER OF GALVANIC ANODES
29-0232L	5	1	4	17.3	48
29-0232R	2	1	4	17.3	48
	3	1	3	17.3	36
	4	1	4	17.3	48
29-0235L	5	1	3	17.3	36
	2	1	4	17.4	48
	2	2	4	17.4	48
29-0235R	2	3	3	17.4	36
	5	3	8	17.4	72
	2	2	7	17.4	72
29-0233H	3	3	5	17.4	48
	3	2	4	17.4	48
	4	3	9	17.4	84
29-0233H	5A		7	23.5	96
	12A*		9	23.5	112
	13A*		9	23.5	112
	14A*		6	23.5	80
	9C**		10	23.5	128
	10C**		6	23.5	80

**GENERAL NOTES
 LOAD FACTOR DESIGN**

DESIGN: BRIDGE DESIGN SPECIFICATIONS (1983 AASHTO with Interims and Revisions by CALTRANS)

REINFORCED CONCRETE:

fy = 60 KSI
 f'c = 4 KSI
 n = 9

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,5	Var	30	31

REGISTERED CIVIL ENGINEER DATE 7-24-15
 11-2-15 PLANS APPROVAL DATE
 Diomedes Acoba No. 52003 Exp. 12-31-16 CIVIL
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.

NOTES: (APPLY TO THIS SHEET ONLY)

- Indicates existing.
- Exist Rocks
- Exist Dirt
- Unreinforced Concrete.

JOINT SEAL TABLE

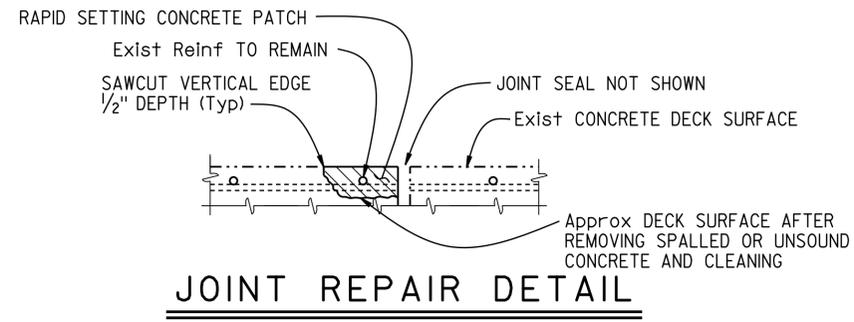
BRIDGE NAME	BRIDGE NUMBER	LOCATION	MINIMUM "MR" (INCHES)	APPROXIMATE LENGTH (FEET)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXP JOINT (INCHES)
ROUTE 5/12 SEPARATION	29-0255L	Abut 1	BB	1	NO	12
		Abut 3	EB	1	NO	12
TURNER ROAD UNDERCROSSING	29-0245L	Abut 1	BB	1	NO	12
		Abut 3	EB	1	NO	12
WALNUT GROVE ROAD UNDERCROSSING	29-0250R	Abut 1	BB	1	NO	12
		Abut 3	EB	1	NO	12
ROUTE 5/4 CONNECTOR VIADUCT	29-0233H	Abut 17A	EB	1 1/2	NO	12

LEGEND:
 BB - Paving Notch at beginning of bridge
 EB - Paving Notch at end of bridge
 BW - Backwall

- The following notes apply to JOINT SEAL TYPE B:
- Seal must satisfy both minimum Movement Rating (MR) and minimum W1 requirements.
 - Minimum W1 is the calculated maximum width of the joint based on field measurements. After the joints have been cleaned, minimum W1 is to be calculated by the Engineer.
 - W1 shall be the smaller of the values determined as follows:
 - 0.85 times the manufacturer's designed minimum uncompressed width of the seal.
 - The width of the seal on the third successive test cycle of the pressure deflection test; when compressed to an average pressure of 3 psi.
 - 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.
 - For details not shown, see B6-21

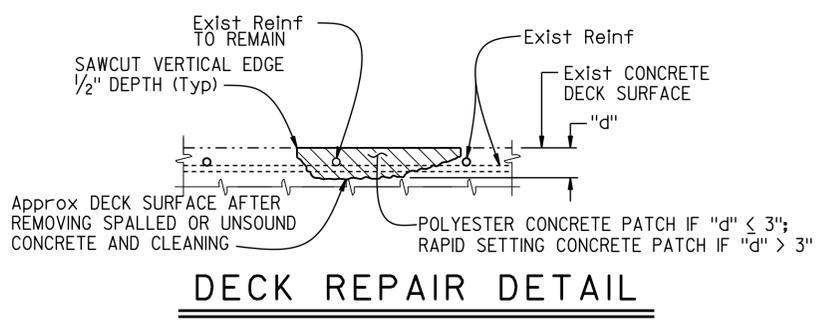
- The following notes apply to JOINT SEAL TYPE A:
- Install Type A joint seal 3" up into rail on the low side of deck where joint matches curb or rail joint.
 - For details not shown, see B6-21

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

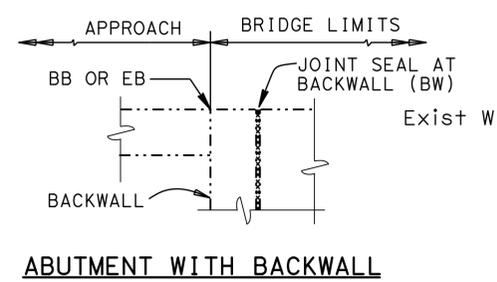


JOINT REPAIR DETAIL

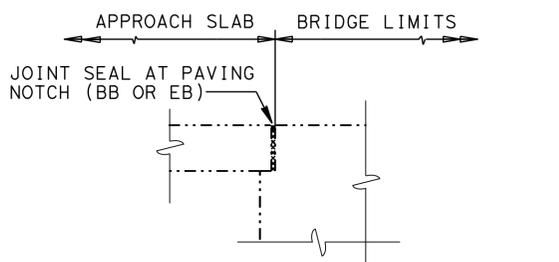
Location will be determined by the engineer. Reinforcement may be encountered during deck concrete removal and is to remain undamaged.



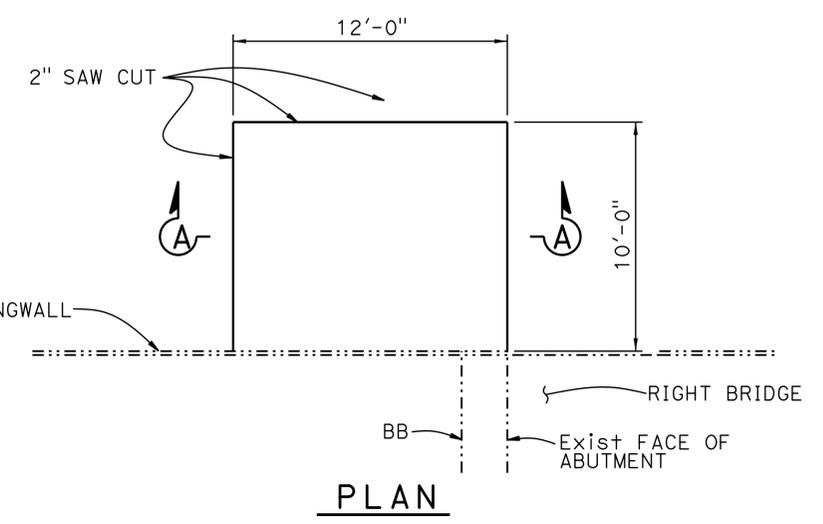
DECK REPAIR DETAIL



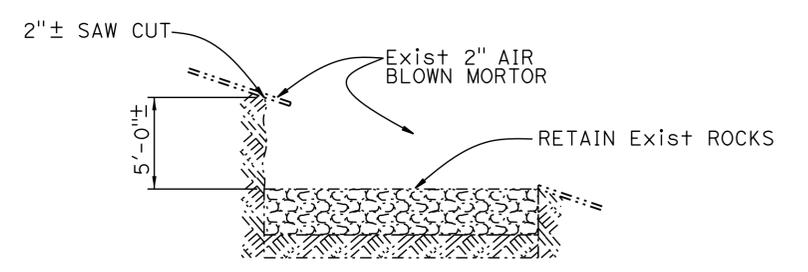
ABUTMENT WITH BACKWALL



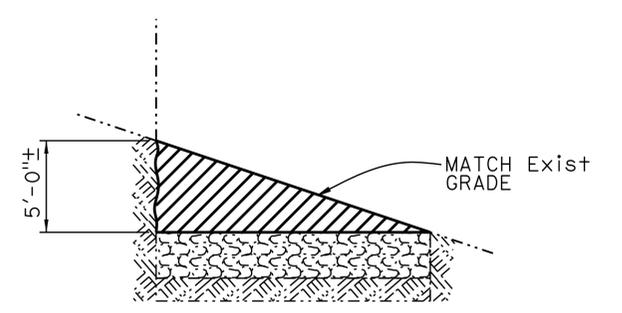
DIAPHRAGM ABUTMENT JOINT SEAL LOCATION



PLAN



EXISTING



MODIFIED SECTION A-A

MODIFY SLOPE PAVING

BR NO. 29-0231R
 1/4" = 1'-0"

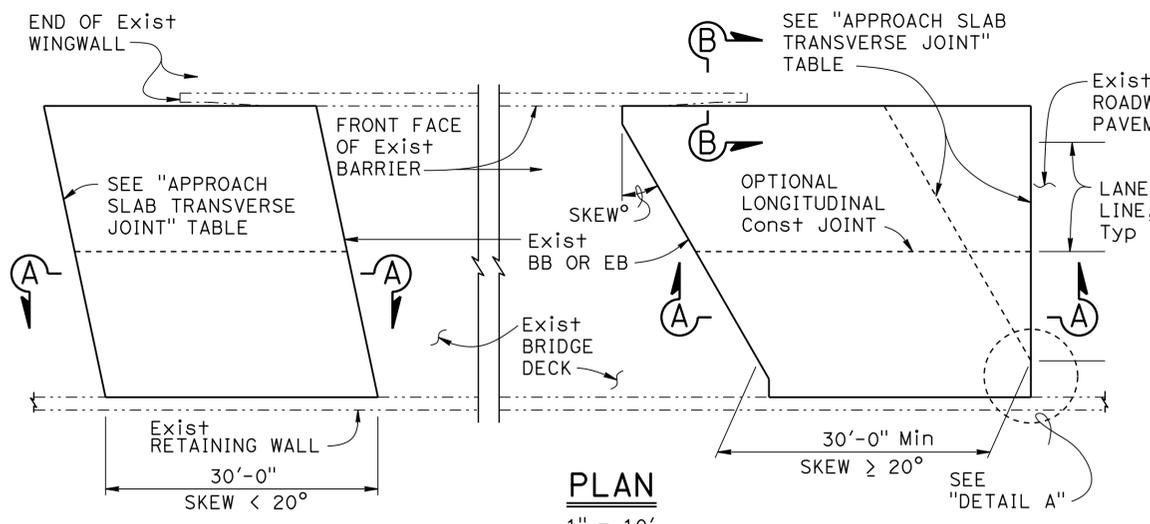
DESIGN	BY D. ACOPA	CHECKED A. FRANK
DETAILS	BY N. KELLEY	CHECKED A. FRANK
QUANTITIES	BY D. ACOPA	CHECKED A. FRANK

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

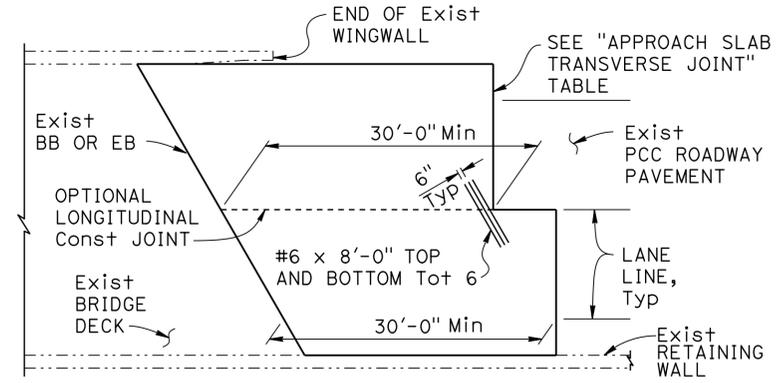
DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIES
POST MILE	VARIOUS

ROUTE 4 & 5 BRIDGES JOINT SEAL DETAILS

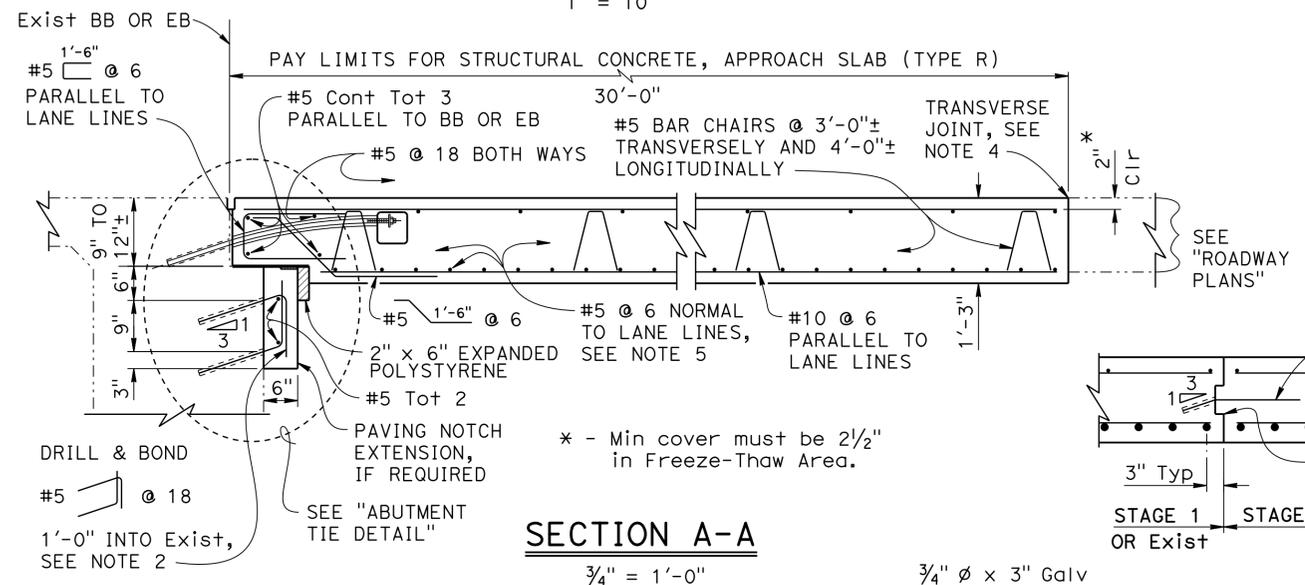


DETAIL A
No Scale

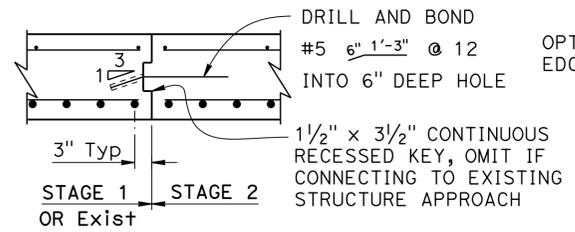


END STAGGER DETAIL
1" = 10'

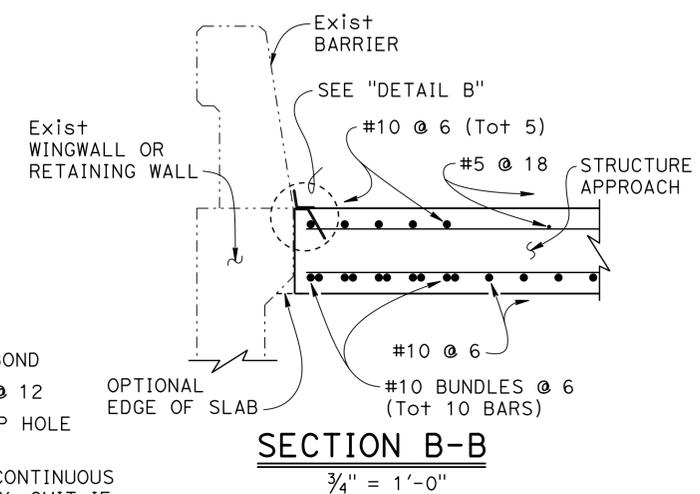
APPROACH SLAB TRANSVERSE JOINT		
APPROACH SKEW	WITH HMA ROADWAY PAVEMENT	WITH PCC ROADWAY PAVEMENT
< 20°	PARALLEL TO BB OR EB	PARALLEL TO BB OR EB
20° - 45°	PARALLEL TO BB OR EB USE "DETAIL A"	STAGGER AT LANE LINES 24' TO 36' APART, SEE "END STAGGER DETAIL"
> 45°	PARALLEL TO BB OR EB USE "DETAIL A"	STAGGER AT EACH LANE LINE, SEE "END STAGGER DETAIL"



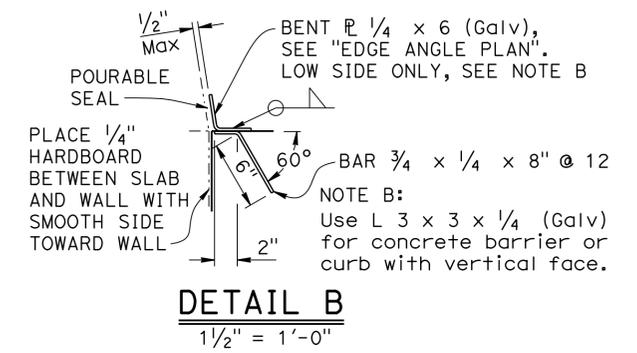
SECTION A-A
3/4" = 1'-0'



LONGITUDINAL CONSTRUCTION JOINT ALTERNATIVES
3/4" = 1'-0'



SECTION B-B
3/4" = 1'-0'

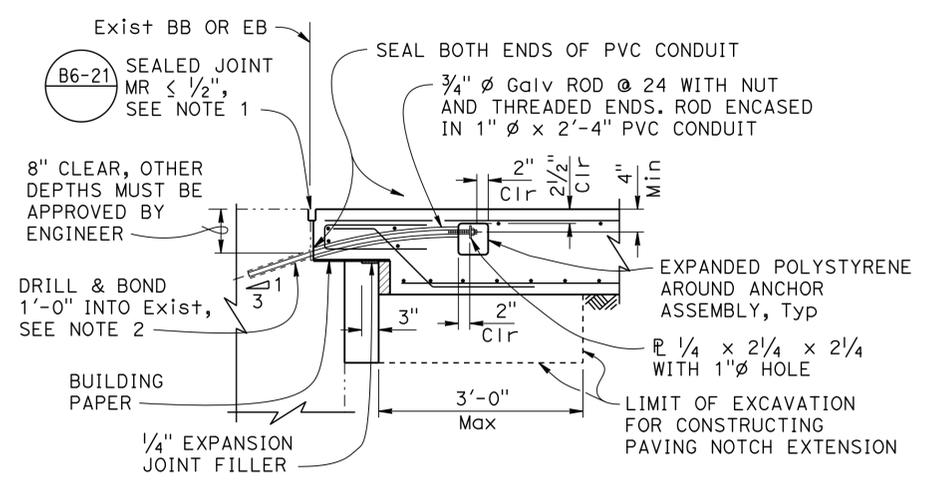


DETAIL B
1/2" = 1'-0'

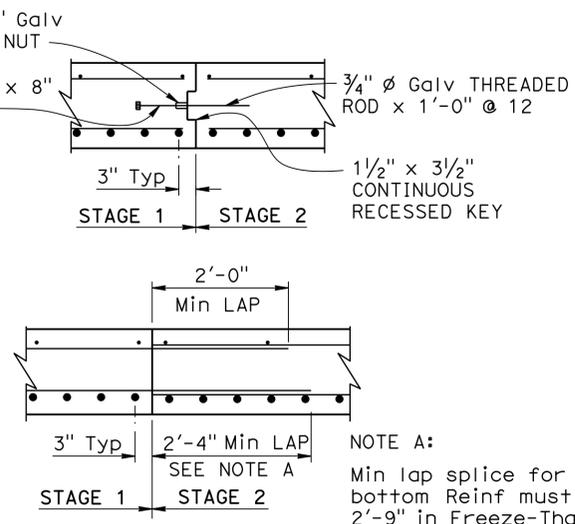
DESIGN NOTES

DESIGN: AASHTO LRFD Bridge Design Specifications, 2012 Edition with Caltrans Amendments, preface dated January 2014
 LIMIT STATES: Service I, Strength I & II, Extreme II and Fatigue I (Y_{FAT} = 1.0)
 DEAD LOAD: Includes 35 psf for future wearing surface
 LIVE LOAD: HL93 and permit design load
 Equivalent strip width method: W₁ = 12 ft
 Slab span: L₁ = 24.5 ft
 REINFORCED CONCRETE:
 f_y = 60 ksi
 f'_c = 3.6 ksi
 n = 8

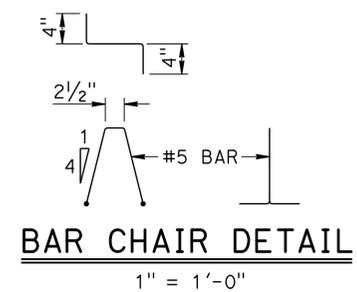
- NOTES:
- For details not shown, see other plan sheets. Adjust reinforcement to clear sawcut for sealed joint.
 - Space reinforcement to avoid existing prestress anchorages and other abutment reinforcement.
 - End the plate or edge angle at beginning of barrier transition, end of wingwall, or end of structure approach as applicable.
 - Transverse Joint must be a minimum of 5'-0" from an existing or constructed weakened plane joint in approach PCC roadway pavement. Refer to Standard Plans P10 and P14.
 - At the Contractor's option, approach slab transverse reinforcement may be placed parallel to BB or EB. Spacing of transverse reinforcement is measured along ℓ roadway.



ABUTMENT TIE DETAIL
3/4" = 1'-0'



EDGE ANGLE PLAN
1" = 1'-0'



BAR CHAIR DETAIL
1" = 1'-0'

NOTE: The contractor must verify all controlling field dimensions before ordering or fabricating any material.

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