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STRUCTURE PLANS

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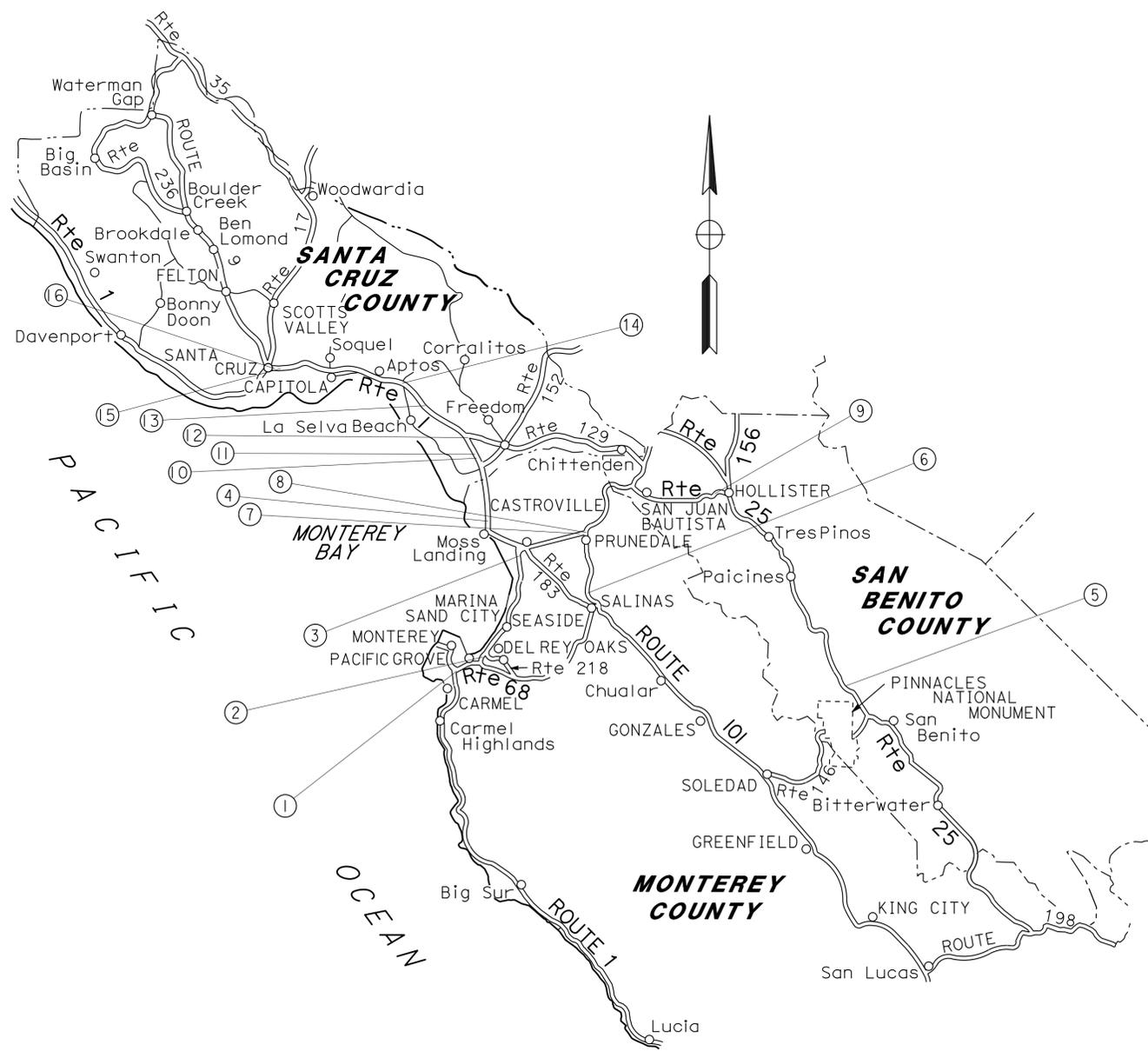
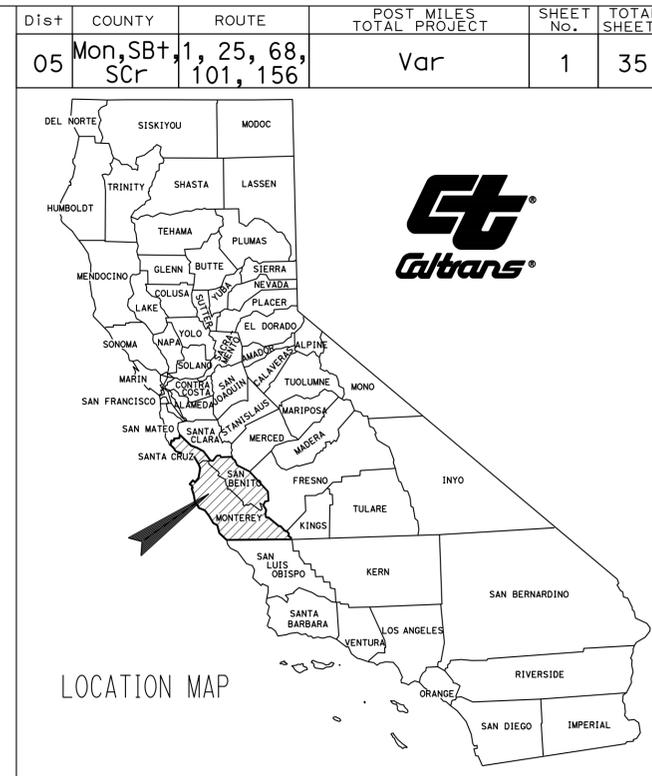
THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

**STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION**

**PROJECT PLANS FOR CONSTRUCTION ON  
STATE HIGHWAY**

**IN MONTEREY, SAN BENITO  
AND SANTA CRUZ COUNTIES  
AT VARIOUS LOCATIONS**

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010



**LOCATIONS OF CONSTRUCTION**

Loc	Co	ROUTE	PM	BRIDGE NAME	BRIDGE No.
①	Mon	68	L4.25	N1-W68, E68-N1 Conn	44-0070E
②	Mon	1	R78.85	DEL MONTE OFF-RAMP OC	44-0157K
③	Mon	1	R90.39	MOLERA ROAD OC	44-0217
④	Mon	1	96.44	ELKHORN SLOUGH	44-0074
⑤	SB+	25	R30.05	SAN BENITO RIVER	43-0015
⑥	Mon	101	87.30	EAST MARKET STREET UC	44-0093L
⑦	Mon	156	T5.17	ROUTE 156/101 Sep	44-0107
⑧	Mon	101	95.35	S101-W156 Conn OC	44-0277F
⑨	SB+	156	R8.45	SAN BENITO RIVER	43-0044
⑩	SCR	1	R1.14	WEST WATSONVILLE OH	36-0083L/R
⑪	SCR	1	R1.35	WATSONVILLE SLOUGH	36-0090L/R
⑫	SCR	1	R2.68	S1-E152 Conn OC	36-0084F
⑬	SCR	1	R4.07	BUENA VISTA Dr UC	36-0092L/R
⑭	SCR	1	R6.68	MAR MONTE AVENUE OC	36-0093
⑮	SCR	1	16.43	BRANCFORTE CREEK	36-0060
⑯	SCR	1	16.63	EMELINE STREET UC	36-0105

PROJECT MANAGER  
KELLY J. McCLAIN

DESIGN MANAGER  
KELLY J. McCLAIN

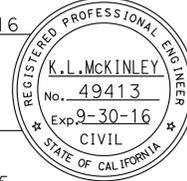
THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO BIDDERS."

NO SCALE

*K.L. McKinley* 2-1-16  
PROJECT ENGINEER DATE  
REGISTERED CIVIL ENGINEER

February 1, 2016  
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.	<b>05-1G3304</b>
PROJECT ID	<b>0514000142</b>

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SB+,Scr	1,25,68,101,156	Var	2	35

K.L. McKinley  
 REGISTERED CIVIL ENGINEER 2-1-16 DATE  
 No. 49413  
 Exp. 9-30-16  
 CIVIL  
 STATE OF CALIFORNIA

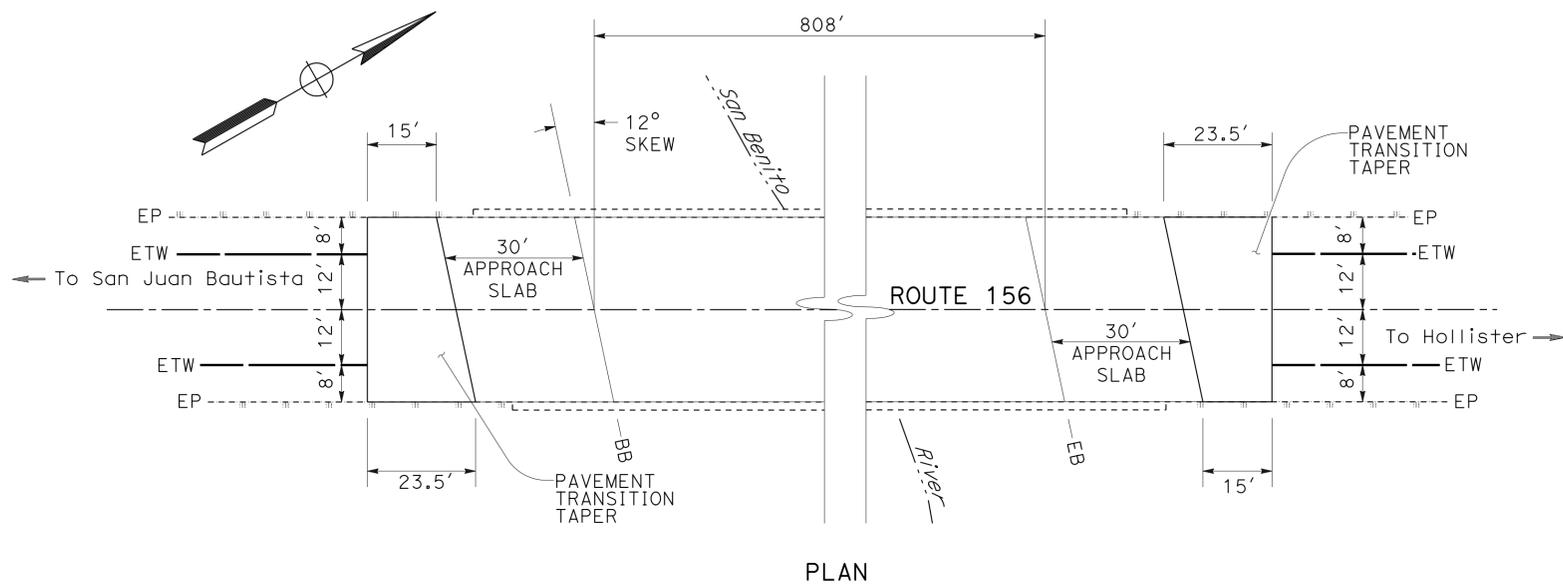
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

**NOTES:**

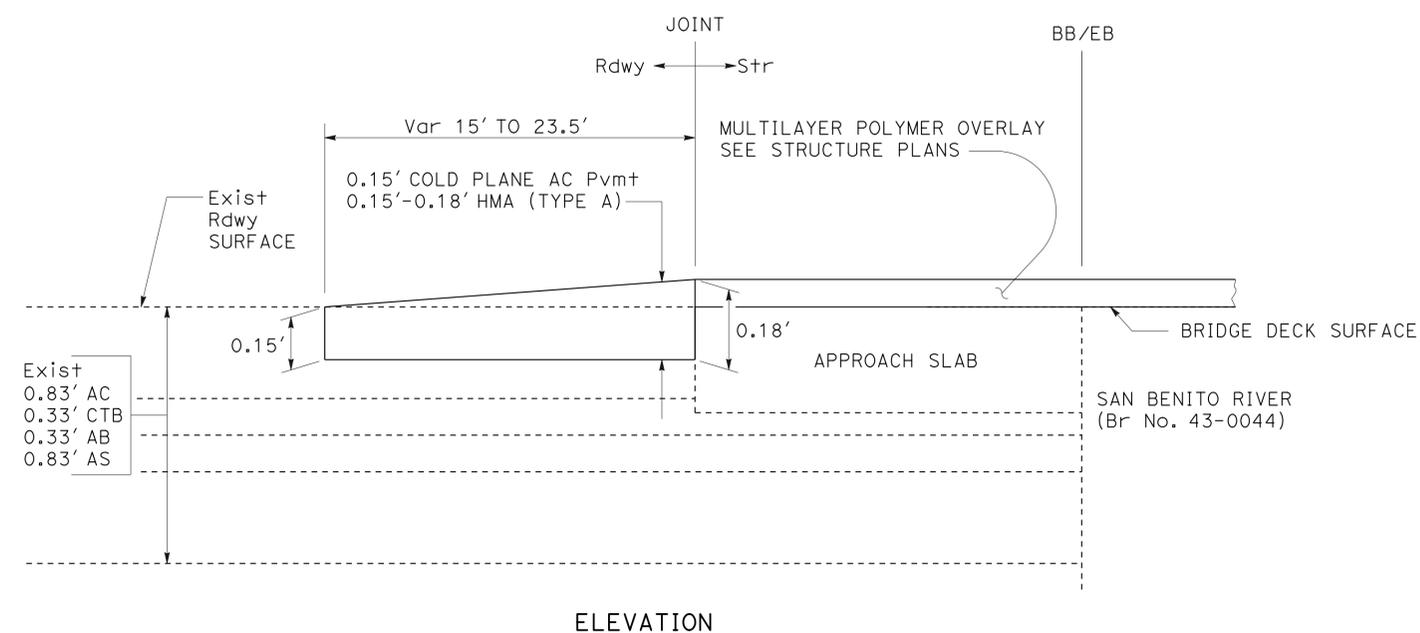
- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- EXISTING UTILITIES ARE NOT SHOWN ON THIS PLAN.

**PAVEMENT STRUCTURE QUANTITIES**

LOCATION	COLD PLANE ASPHALT CONCRETE PAVEMENT	HOT MIX ASPHALT (TYPE A)	TACK COAT
	SQYD	TON	TON
Loc 1 - N1-W68, E68-N1 Con BB	39	4	0.01
Loc 1 - N1-W68, E68-N1 Con EB	34	3	0.01
Loc 9 - SAN BENITO RIVER BB	238	26	0.06
Loc 9 - SAN BENITO RIVER EB	238	26	0.06
<b>TOTAL</b>	<b>549</b>	<b>59</b>	<b>0.14</b>

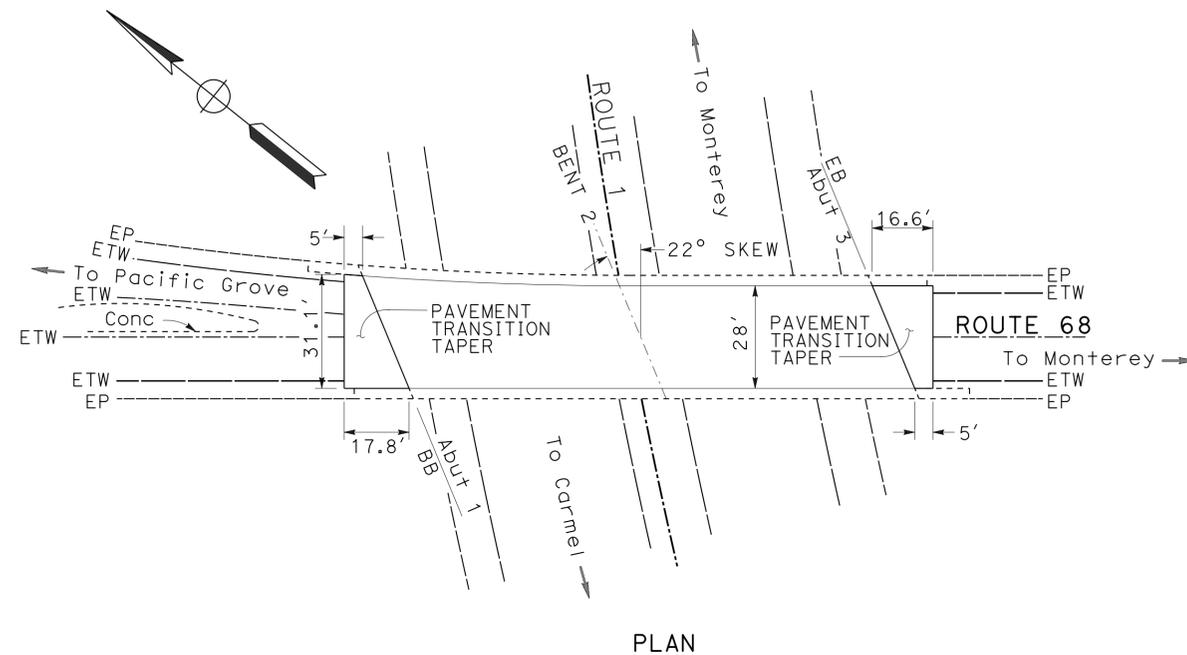


PLAN

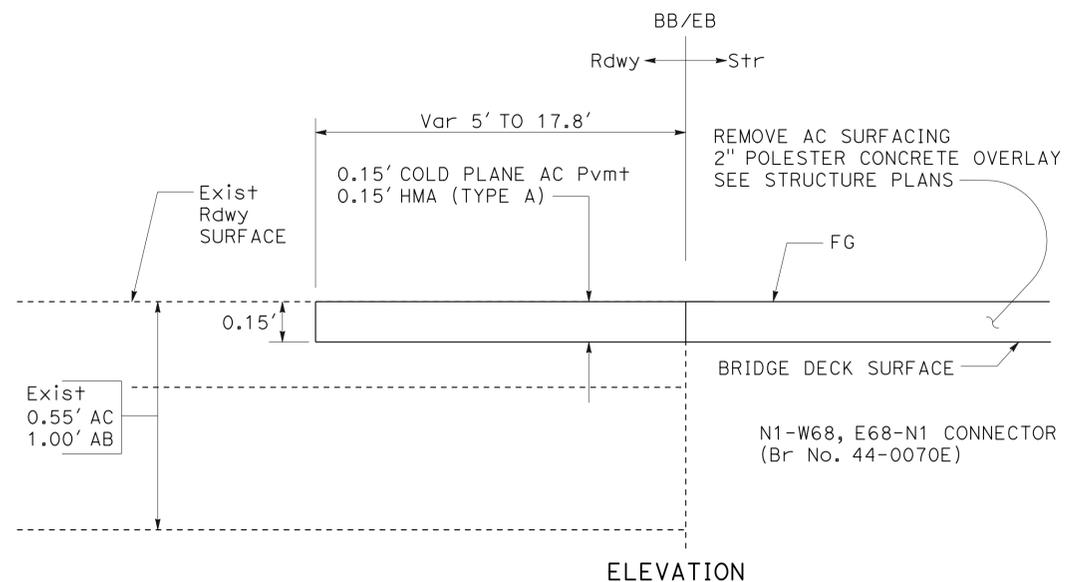


ELEVATION

**LOCATION 9 - SAN BENITO RIVER PAVEMENT TRANSITION TAPER DETAIL**



PLAN



ELEVATION

**LOCATION 1 - N1-W68, E68-N1 CONNECTOR PAVEMENT TRANSITION TAPER DETAIL**

**CONSTRUCTION DETAILS AND QUANTITIES**

NO SCALE

**C-1**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon, SBT, SCR	1, 25, 68, 101, 156	Var	3	35

K.L. McKinley  
 REGISTERED CIVIL ENGINEER DATE 2-1-16  
 2-1-16  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 K.L. MCKINLEY  
 No. 49413  
 Exp. 9-30-16  
 CIVIL  
 STATE OF CALIFORNIA

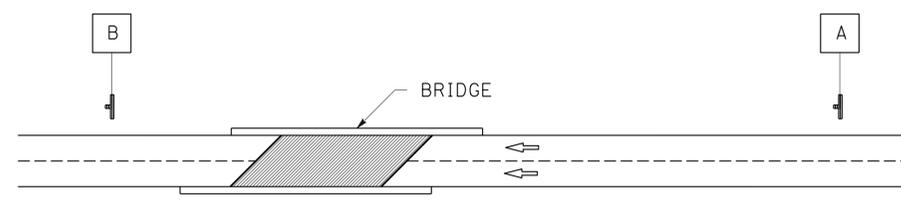
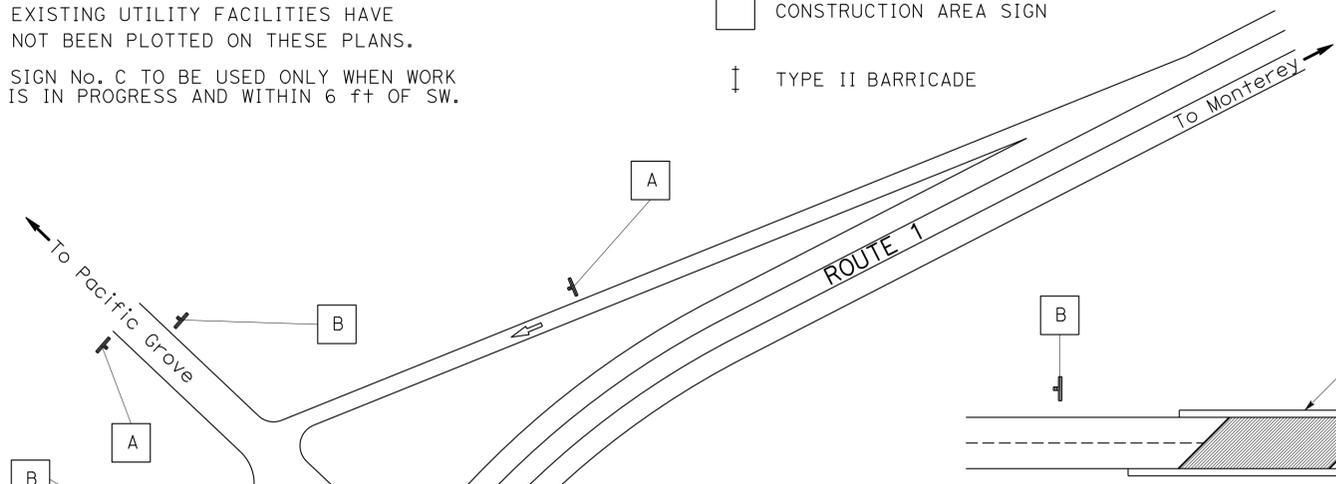
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

**NOTES:**

1. EXACT LOCATIONS OF CONSTRUCTION AREA SIGNS TO BE DETERMINED BY THE ENGINEER.
2. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
3. SIGN No. C TO BE USED ONLY WHEN WORK IS IN PROGRESS AND WITHIN 6 ft OF SW.

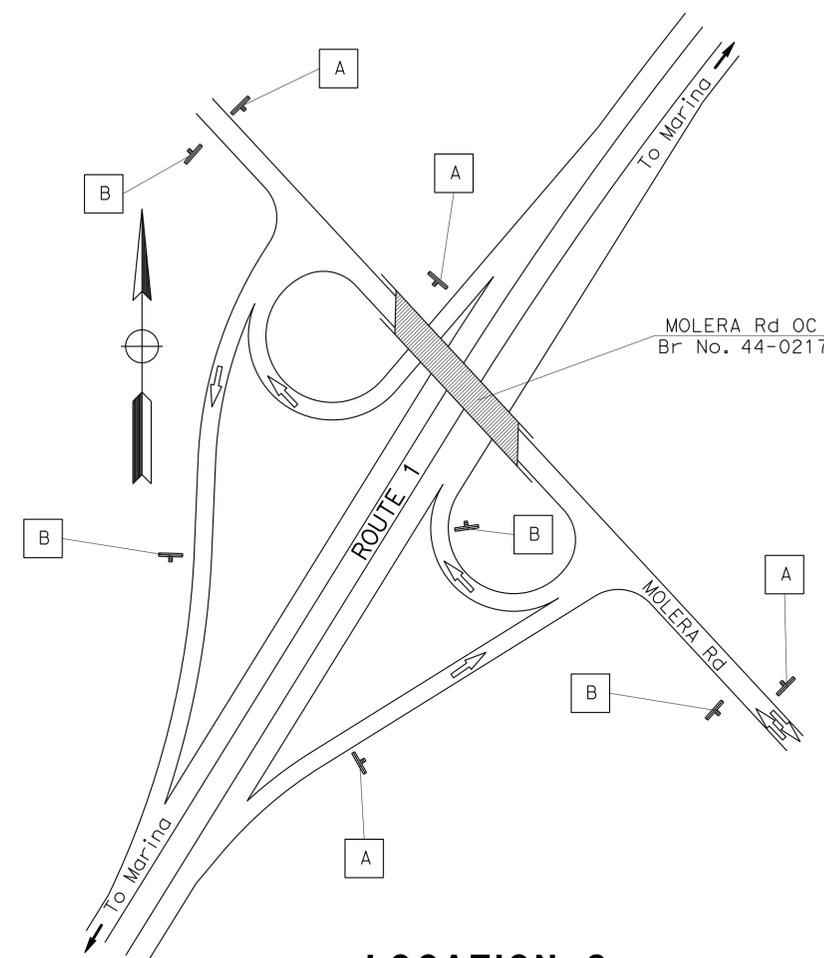
**LEGEND:**

- CONSTRUCTION AREA SIGN
- ⊥ TYPE II BARRICADE



**LOCATIONS 6, 10 TO 13**

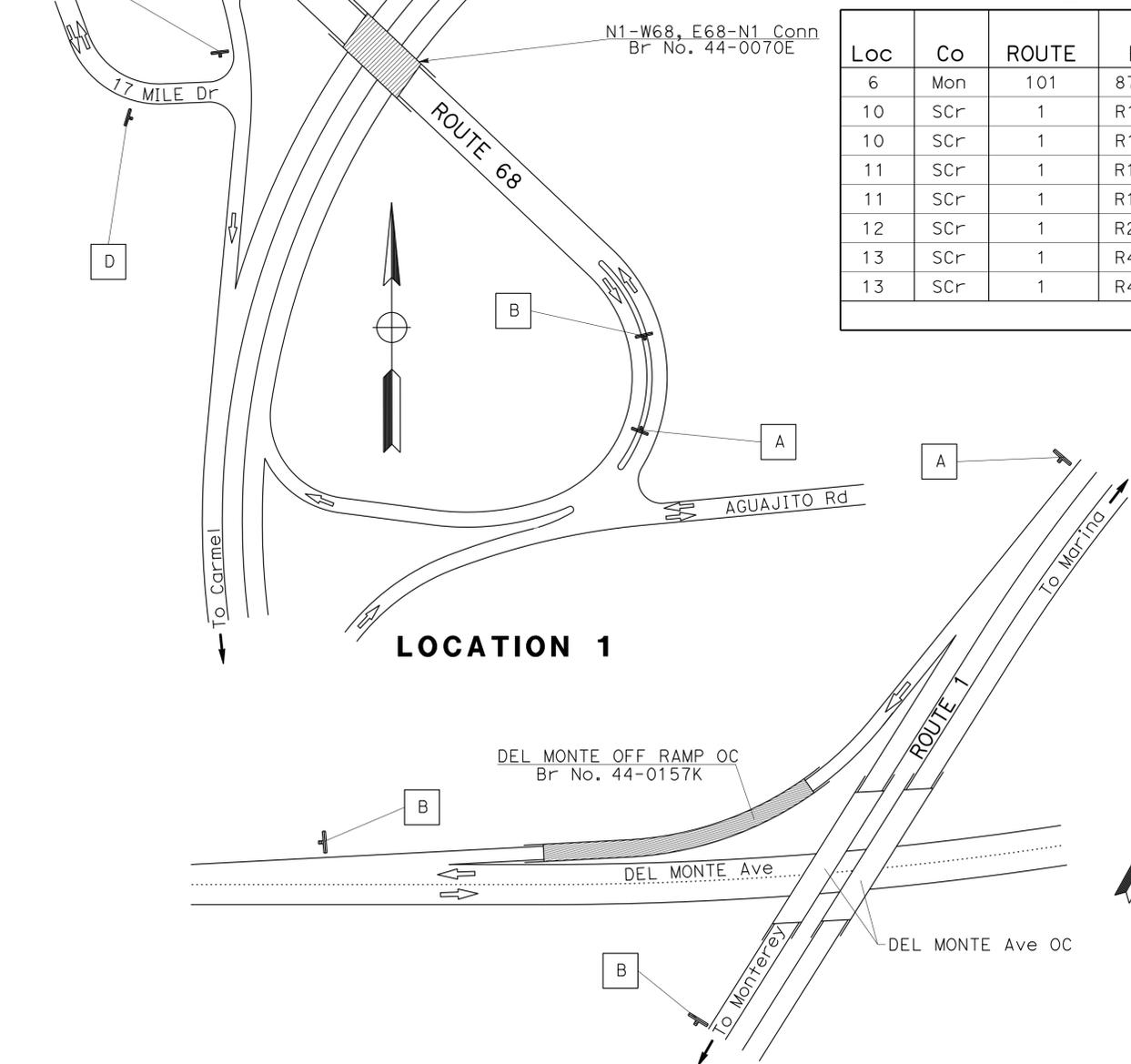
Loc	Co	ROUTE	PM	BRIDGE NAME	BRIDGE No.	SIGN	
						A	B
6	Mon	101	87.30	EAST MARKET St UC	44-0093L	1	1
10	SCR	1	R1.14	WEST WATSONVILLE OH	36-0083L	-	1
10	SCR	1	R1.14	WEST WATSONVILLE OH	36-0083R	1	-
11	SCR	1	R1.35	WATSONVILLE SLOUGH	36-0083L	1	-
11	SCR	1	R1.35	WATSONVILLE SLOUGH	36-0083R	-	1
12	SCR	1	R2.68	S1-E152 Conn OC	36-0084F	1	1
13	SCR	1	R4.07	BUENA VISTA Dr UC	36-0092L	1	1
13	SCR	1	R4.07	BUENA VISTA Dr UC	36-0092R	1	1
SUBTOTAL						6	6



**LOCATION 3**

**LOCATIONS 1 TO 3**

Loc	Co	ROUTE	PM	BRIDGE NAME	BRIDGE No.	SIGN		
						A	B	D
1	Mon	68	L4.25	N1-W68, E68-N1 Conn	44-0070E	3	3	1
2	Mon	1	R78.85	DEL MONTE OFF RAMP OC	44-0157K	1	2	-
3	Mon	1	R90.39	MOLERA Rd OC	44-0217	4	4	-
SUBTOTAL						8	9	1



**LOCATION 1**

**LOCATION 2**

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** MAINTENANCE DESIGN  
 FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN  
 CALCULATED/DESIGNED BY: KELLY J. McCLAIN  
 CHECKED BY:  
 REVISED BY: KELLY L. MCKINLEY  
 DATE REVISED:

LAST REVISION | DATE PLOTTED => 01-FEB-2016  
 02-01-16 | TIME PLOTTED => 1:3:33

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SBt,Scr	1,25,68,101,156	Var	4	35

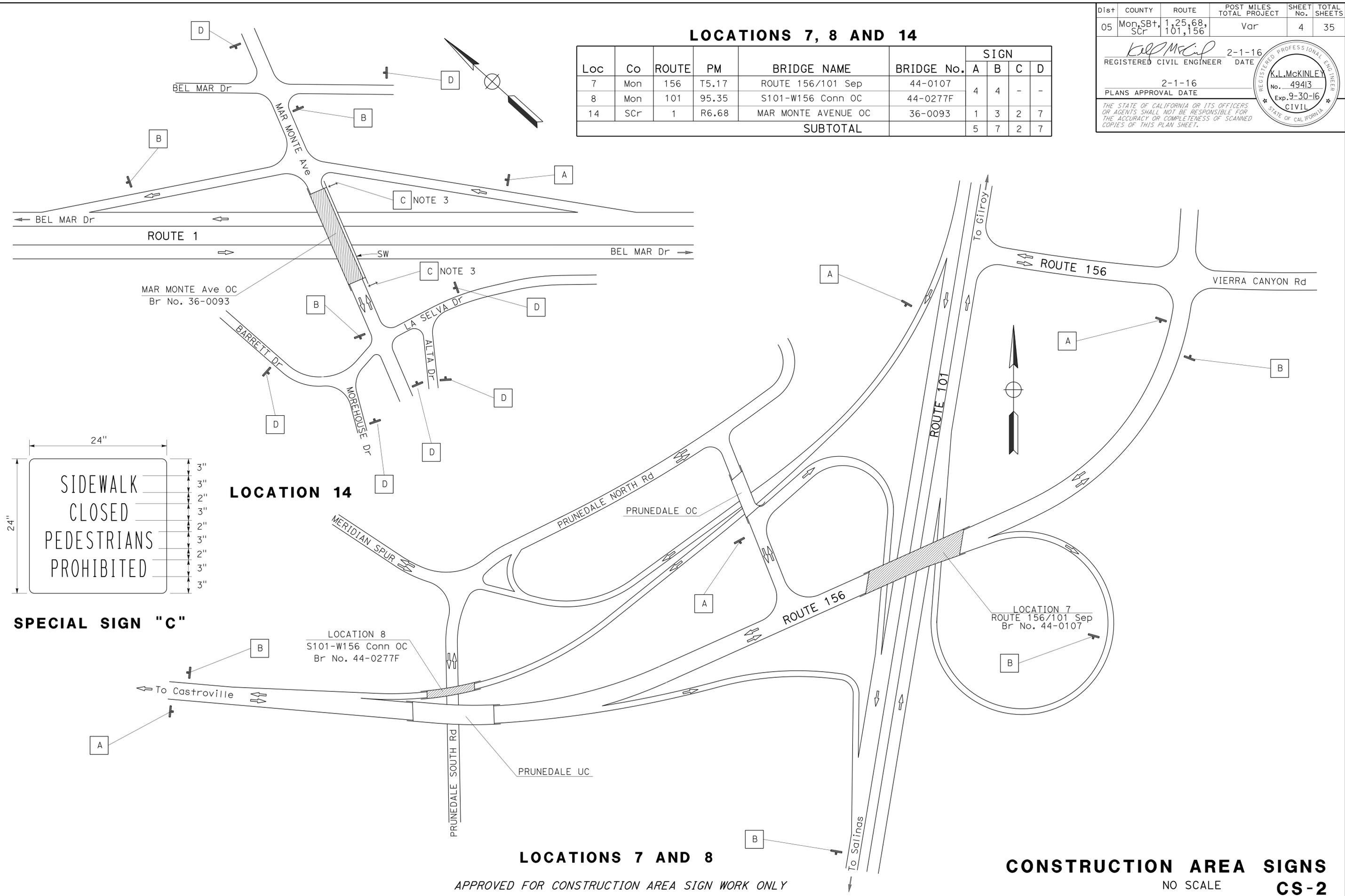
REGISTERED CIVIL ENGINEER *K.L. McKinley* 2-1-16  
 DATE  
 PLANS APPROVAL DATE 2-1-16

REGISTERED PROFESSIONAL ENGINEER  
 K.L. MCKINLEY  
 No. 49413  
 Exp. 9-30-16  
 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.

### LOCATIONS 7, 8 AND 14

Loc	Co	ROUTE	PM	BRIDGE NAME	BRIDGE No.	SIGN			
						A	B	C	D
7	Mon	156	T5.17	ROUTE 156/101 Sep	44-0107	4	4	-	-
8	Mon	101	95.35	S101-W156 Conn OC	44-0277F				
14	Scr	1	R6.68	MAR MONTE AVENUE OC	36-0093	1	3	2	7
SUBTOTAL						5	7	2	7



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** MAINTENANCE DESIGN  
 FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN  
 CALCULATED/DESIGNED BY: KELLY J. McCLAIN  
 CHECKED BY:  
 REVISED BY: KELLY L. MCKINLEY  
 DATE REVISED:

**LOCATIONS 7 AND 8**  
 APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

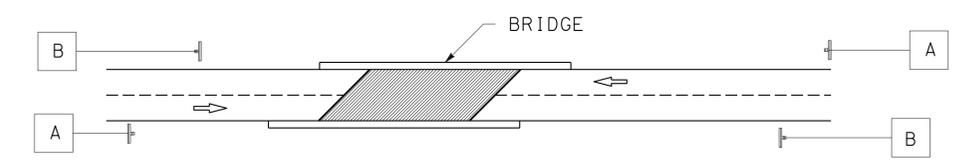
**CONSTRUCTION AREA SIGNS**  
 NO SCALE  
**CS-2**

LAST REVISION | DATE PLOTTED => 01-FEB-2016  
 02-01-16 | TIME PLOTTED => 13:33

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SB+,SCR	1,25,68,101,156	Var	5	35

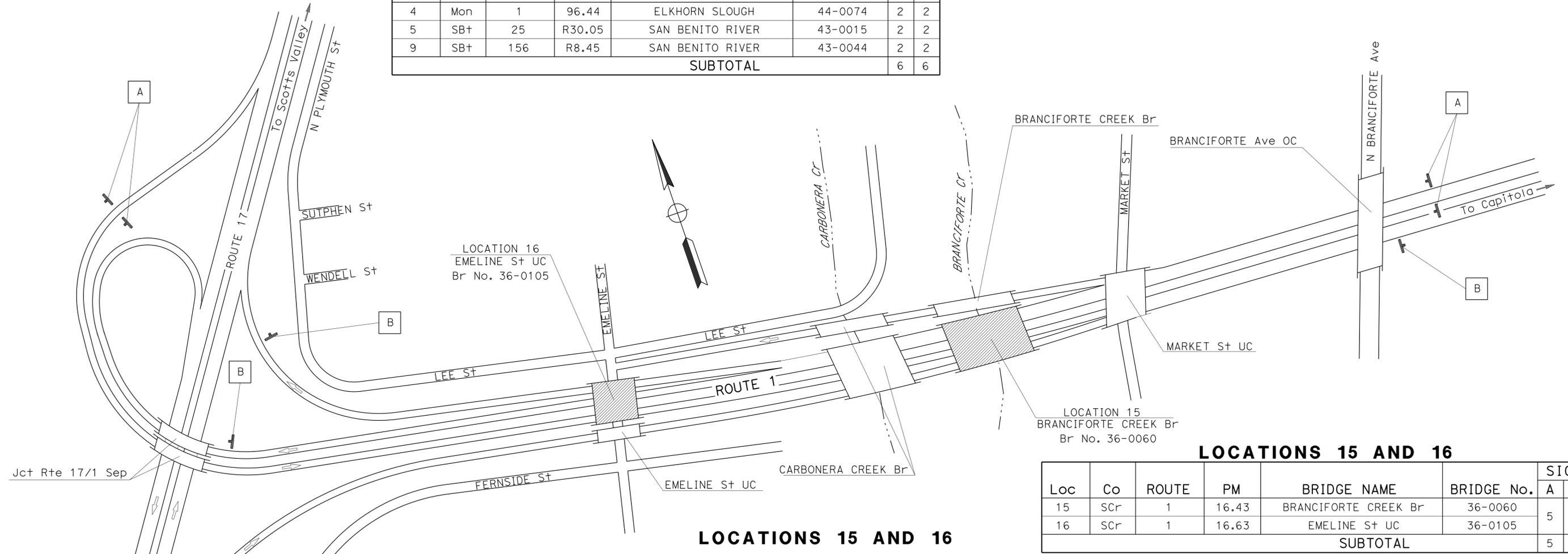
REGISTERED CIVIL ENGINEER **K.L. McKINLEY** No. 49413  
 DATE 2-1-16  
 PLANS APPROVAL DATE 2-1-16  
 Exp. 9-30-16  
 CIVIL

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.



**LOCATIONS 4, 5, 9**

Loc	Co	ROUTE	PM	BRIDGE NAME	BRIDGE No.	SIGN	
						A	B
4	Mon	1	96.44	ELKHORN SLOUGH	44-0074	2	2
5	SB+	25	R30.05	SAN BENITO RIVER	43-0015	2	2
9	SB+	156	R8.45	SAN BENITO RIVER	43-0044	2	2
SUBTOTAL						6	6



**LOCATIONS 15 AND 16**

Loc	Co	ROUTE	PM	BRIDGE NAME	BRIDGE No.	SIGN	
						A	B
15	SCR	1	16.43	BRANCIFFORTE CREEK Br	36-0060	5	3
16	SCR	1	16.63	EMELINE St UC	36-0105	5	3
SUBTOTAL						5	3

**LOCATIONS 15 AND 16**

**STATIONARY MOUNTED CONSTRUCTION AREA SIGNS (SUMMARY)**

SIGN No.	SIGN CODE		PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS	REMARKS
	FEDERAL	CALIFORNIA					
A	W20-1	C23	48" x 48"	ROAD WORK AHEAD	1 - 4" x 6"	30	
B	G20-2	C14	48" x 24"	END ROAD WORK	1 - 4" x 6"	30	
C	SPECIAL		24" x 24"	SIDEWALK CLOSED PEDESTRIAN PROHIBITED		2	BARRICADE MOUNTED
D	W20-1	C23	30" x 30"	ROAD WORK AHEAD	1 - 4" x 6"	8	

**CONSTRUCTION AREA SIGNS**  
NO SCALE  
**CS-3**

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** MAINTENANCE DESIGN  
 FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN  
 CALCULATED/DESIGNED BY: KELLY J. McCLAIN  
 REVISOR: KELLY L. McKINLEY  
 DATE: 7/2/2010

LAST REVISION | DATE PLOTTED => 01-FEB-2016  
 TIME PLOTTED => 1:31:33

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SBt,Scr	1,25,68,101,156	Var	6	35

*K.L. McKinley* 2-1-16  
 REGISTERED CIVIL ENGINEER DATE  
 2-1-16  
 PLANS APPROVAL DATE

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

**NOTE:**

NO REMOVE PAVEMENT DELINEATION WORK LOCATIONS 1, 4, 12 AND 16.

**REMOVE PAVEMENT DELINEATION**

Loc	Co	ROUTE	PM	BRIDGE NAME	BRIDGE No.	DETAIL No.	REMOVE THERMOPLASTIC TRAFFIC STRIPE		REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)	REMOVE PAVEMENT MARKER	REMOVE THERMOPLASTIC PAVEMENT MARKING	DESCRIPTION/COMMENTS
							WHITE SOLID LF	WHITE BROKEN LF	YELLOW SOLID LF			
							EA	SQFT				
2	Mon	1	R78.85	DEL MONTE OFF-RAMP OC	44-0157K	25			490	10		
						27B	490					
3	Mon	1	R90.39	MOLERA ROAD OC	44-0217	22			1,086	19		INCLUDES 362 LF BLACK STRIPE
						27B	362					
5	SB+	25	R30.05	SAN BENITO RIVER	43-0015	22			531	15		INCLUDES 177 LF BLACK STRIPE
						27B	354					
6	Mon	101	87.30	EAST MARKET STREET UC	44-0093L	25			106	12		
						11		27				
						13						
						27B	106					
7	Mon	156	T5.17	ROUTE 156/101 SEPARATION	44-0107	27B			422			
						25A			211	14		
						22			633	36		INCLUDES 211 LF BLACK STRIPE
						TYPE-1					31	TYPE I 24'-0" ARROW
						TYPE-VII					27	TYPE VII (R) ARROW
TYPE-V					33	TYPE V ARROW						
8	Mon	101	95.35	S101-W156 CONNECTOR OC	44-0277F	25			87	2		
						27B	87					
9	SB+	156	R8.45	SAN BENITO RIVER	43-0044	23mod			2,462	656		INCLUDES 868 LF BLACK STRIPE
						27B	1,736					
10	Scr	1	R1.14	WEST WATSONVILLE OH	36-0083R	25			315	7		
						11		79				
						27B	315				33	
10	Scr	1	R1.14	WEST WATSONVILLE OH	36-0083L	25			315	7		
						11		79				
						13					31	
						14					2	
SUBTOTAL							4,187	185				
SHEET TOTAL							4,372		6,236	857	91	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** MAINTENANCE DESIGN

**PAVEMENT DELINEATION QUANTITIES PDQ-1**

LAST REVISION | DATE PLOTTED => 01-FEB-2016  
 02-01-16 | TIME PLOTTED => 1:33

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon,SB+,Scr	1,25,68,101,156	Var	7	35

*K.L. McKinley*  
 REGISTERED CIVIL ENGINEER DATE 2-1-16  
 PLANS APPROVAL DATE 2-1-16

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### REMOVE PAVEMENT DELINEATION

Loc	Co	ROUTE	PM	BRIDGE NAME	BRIDGE No.	DETAIL No.	REMOVE THERMOPLASTIC TRAFFIC STRIPE		REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)	REMOVE PAVEMENT MARKER	REMOVE THERMOPLASTIC PAVEMENT MARKING	DESCRIPTION/COMMENTS
							WHITE SOLID LF	WHITE BROKEN LF	YELLOW SOLID LF			
11	Scr	1	R1.35	WATSONVILLE SLOUGH	36-0090R	25			274	4		INCLUDES 107 LF BLACK STRIPE AND 60 LF DOUBLE Det 25
						11		27				
						13				11		
						27B	167					
11	Scr	1	R1.35	WATSONVILLE SLOUGH	36-0090L	25			274	3		INCLUDES 107 LF BLACK STRIPE AND 60 LF DOUBLE Det 25
						11		27				
						13				11		
						27B	167					
13	Scr	1	R4.07	BUENA VISTA Dr UC	36-0092R	25			111	2		
						11		56				
						13				24		
						27B	111					
13	Scr	1	R4.07	BUENA VISTA Dr UC	36-0092L	25			222	8		INCLUDES 111 LF BLACK STRIPE
						11		28				
						13				12		
						27B	333					
14	Scr	1	R6.68	MAR MONTE Ave OC	36-0093	22			897	38		INCLUDES 299 LF BLACK STRIPE
						27B	598					
						STOP				5		
15	Scr	1	R16.43	BRANCIFORTE CREEK	36-0060	25			142	3		Approx 1/4 OF PAVEMENT MARKING TO BE REMOVED
						11		36				
						13				15		
						37		84		14		
						27B	142					
						25			156	3		
						9		23		3		
						11		59				
						13				23		
27B	156											
SUBTOTAL							1,674	372				
SHEET TOTAL								2,046	2,076	174	5	
SUBTOTAL PDQ-1								4,372	6,236	857	91	
TOTAL								6,418	8,312	1,031	96	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** MAINTENANCE DESIGN

## PAVEMENT DELINEATION QUANTITIES PDQ-2

LAST REVISION | DATE PLOTTED => 01-FEB-2016  
 02-01-16 | TIME PLOTTED => 1:33



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon, SBT, Scr	1,25,68, 101,156	Var	9	35

*K.L. McKinley*  
 REGISTERED CIVIL ENGINEER DATE 2-1-16  
 PLANS APPROVAL DATE 2-1-16

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### PAVEMENT DELINEATION

Loc	Co	ROUTE	PM	BRIDGE NAME	BRIDGE No.	DETAIL No.	4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 17-7)		4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 36-12)		4" THERMOPLASTIC TRAFFIC STRIPE		8" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 12-3)		PAVEMENT MARKER (RETROREFLECTIVE)				PAVEMENT MARKER (NON-REFLECTIVE)		THERMOPLASTIC PAVEMENT MARKING	COMMENTS							
							WHITE BROKEN	WHITE BROKEN	WHITE SOLID	YELLOW SOLID	WHITE BROKEN	TYPE C	TYPE D	TYPE G	TYPE H	TYPE A	TYPE AY												
							LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	SQFT											
11	Scr	1	R1.35	WATSONVILLE SLOUGH	36-0090R	25																							
						11																							
						13																							
						27B																							
11	Scr	1	R1.35	WATSONVILLE SLOUGH	36-0090L	25																							
						11																							
						13																							
						27B																							
13	Scr	1	R4.07	BUENA VISTA Dr UC	36-0092R	25																							
						11																							
						13																							
						27B																							
13	Scr	1	R4.07	BUENA VISTA Dr UC	36-0092L	25																							
						11																							
						13																							
						27B																							
14	Scr	1	R6.68	MAR MONTE Ave OC	36-0093	22																							
						27B																							
15	Scr	1	R16.43	BRANCIFORTE CREEK	36-0060	25																							
						11																							
						13																							
						37																							
						27B																							
						25																							
						9																							
						11																							
13																													
27B																													
SUBTOTAL																													
SHEET TOTAL							189	923	2,664	142		90		77															
SHEET TOTAL PDQ-3								736	9,948			385		518		91													
GRAND TOTAL							189	1,659	12,612	142		475		595		91													

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** MAINTENANCE DESIGN  
 FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN  
 CALCULATED/DESIGNED BY: KELLY L. MCKINLEY  
 CHECKED BY: KELLY J. McCLAIN  
 REVISED BY: \_\_\_\_\_ DATE REVISED: \_\_\_\_\_

## PAVEMENT DELINEATION QUANTITIES PDQ-4

	<b>M</b>	
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	
	<b>N</b>	
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	
	<b>O</b>	
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	
	<b>P</b>	
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	

	<b>P continued</b>	
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	
	<b>Q</b>	
Qty	QUANTITY	
	<b>R</b>	
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	

	<b>S</b>	
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	
	<b>T</b>	
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	

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon, SB+ Scr	1,25,68, 101,156	Var	10	35

*Grace M. Tsushima*  
REGISTERED CIVIL ENGINEER



July 19, 2013  
PLANS APPROVAL DATE

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

TO ACCOMPANY PLANS DATED 2-1-16

**UNIT OF MEASUREMENT SYMBOLS:**

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

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:

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 <sup>3</sup> , pcf	POUNDS PER CUBIC FOOT
tsf	TONS PER SQUARE FOOT
mph, MPH *	MILES PER HOUR
ø	NOMINAL DIAMETER
oz	OUNCE
lb	POUND
kíp	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.

2010 REVISED STANDARD PLAN RSP A10B

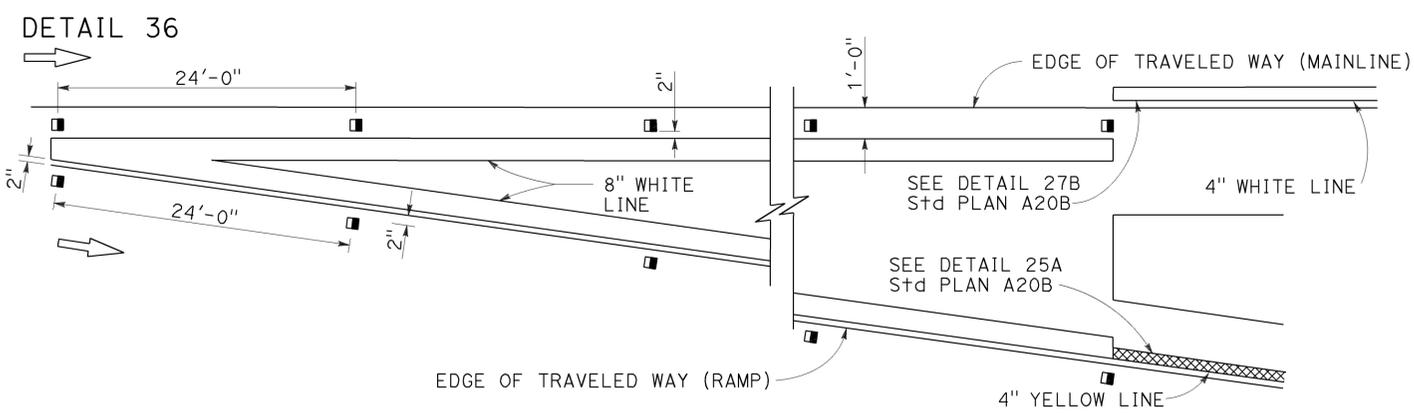
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon, SB+ Scr	1,25,68, 101,156	Var	11	35

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

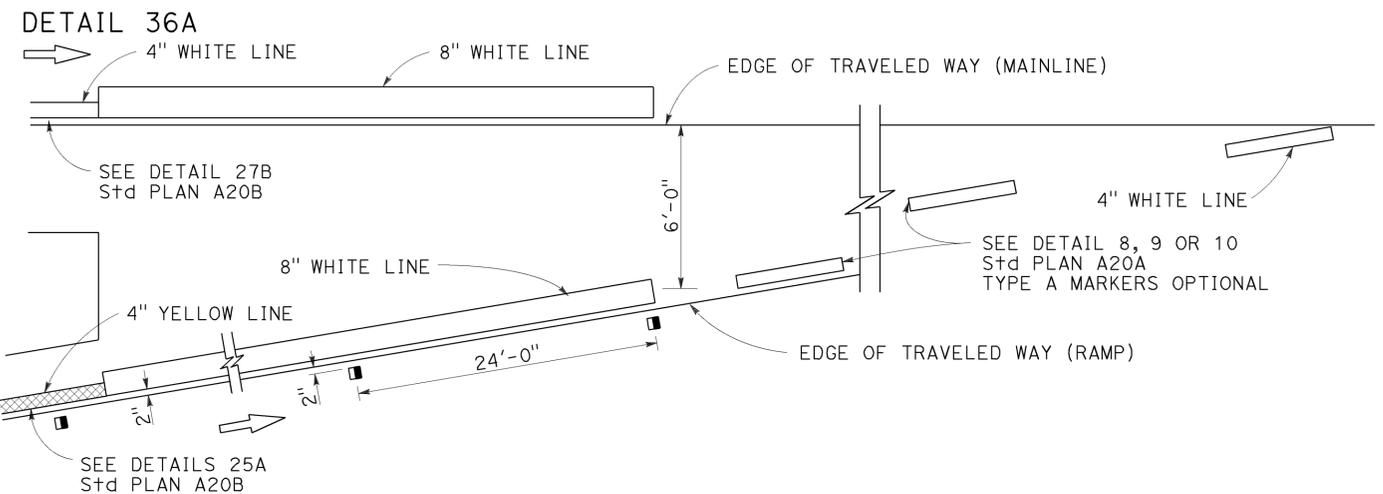
July 19, 2013  
 PLANS APPROVAL DATE

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.

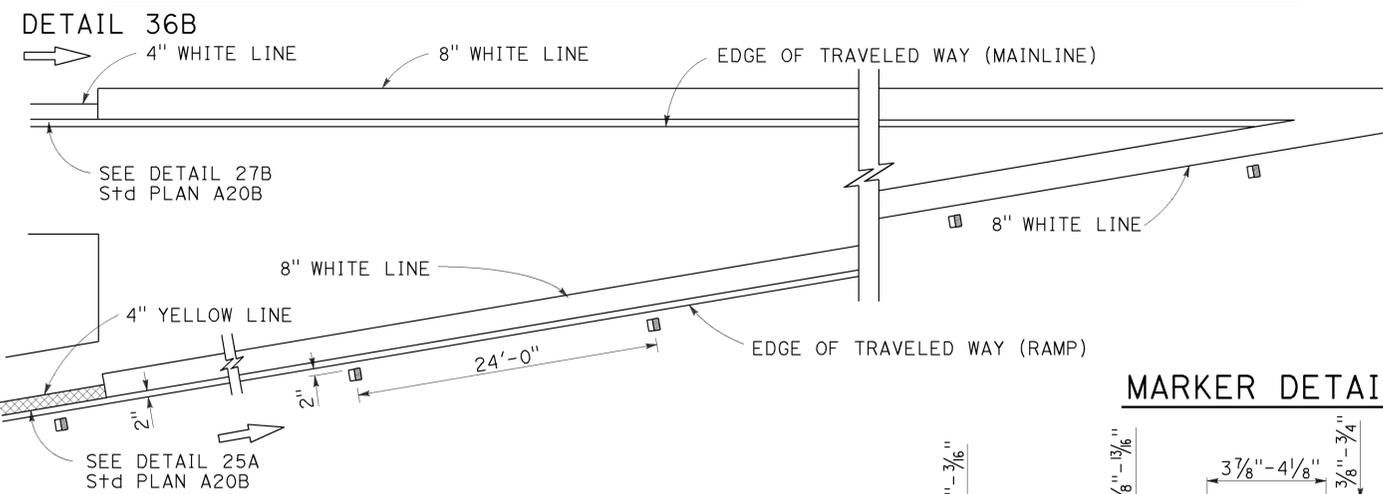
### EXIT RAMP NEUTRAL AREA (GORE) TREATMENT



### ENTRANCE RAMP NEUTRAL AREA (MERGE) TREATMENT

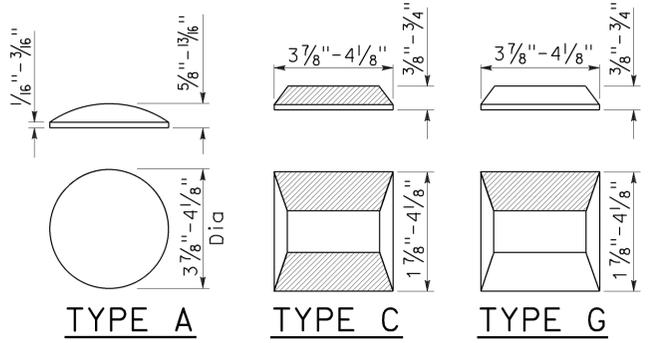


### ENTRANCE RAMP NEUTRAL AREA (ACCELERATION LANE) TREATMENT



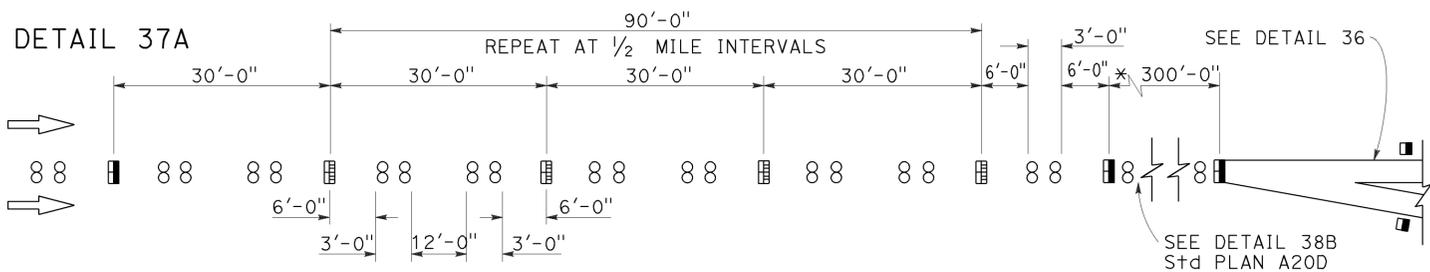
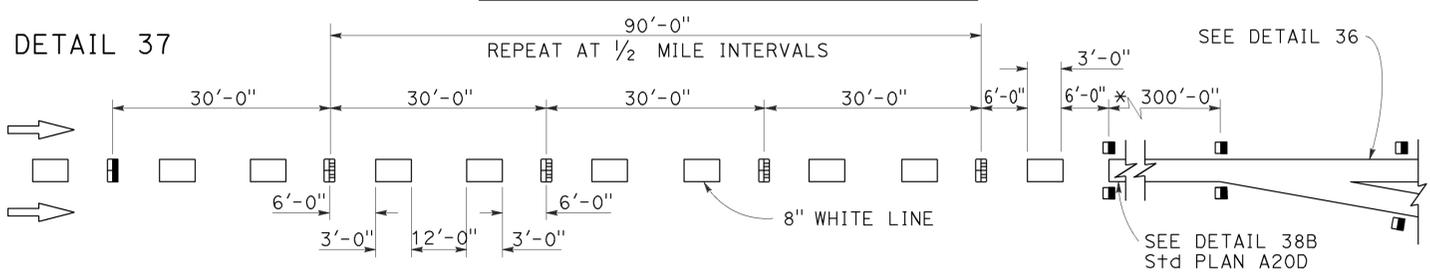
### MARKER DETAILS

- LEGEND:**
- MARKERS**
- TYPE A WHITE NON-REFLECTIVE
  - ◻ TYPE C RED-CLEAR RETROREFLECTIVE
  - TYPE G ONE-WAY CLEAR RETROREFLECTIVE



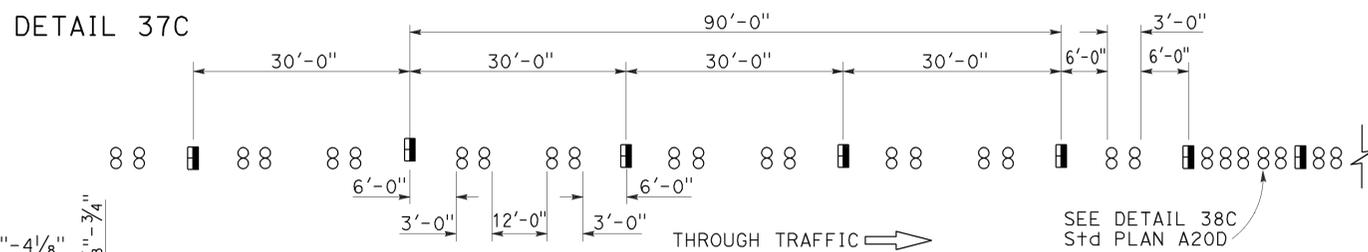
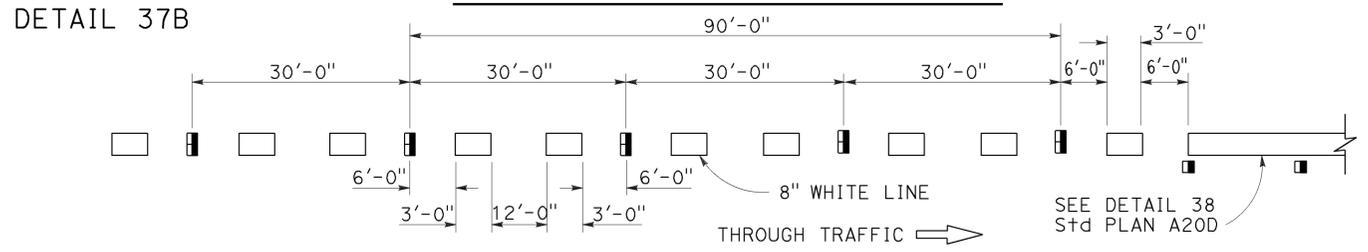
RETROREFLECTIVE FACE

### LANE DROP AT EXIT RAMP



\* 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

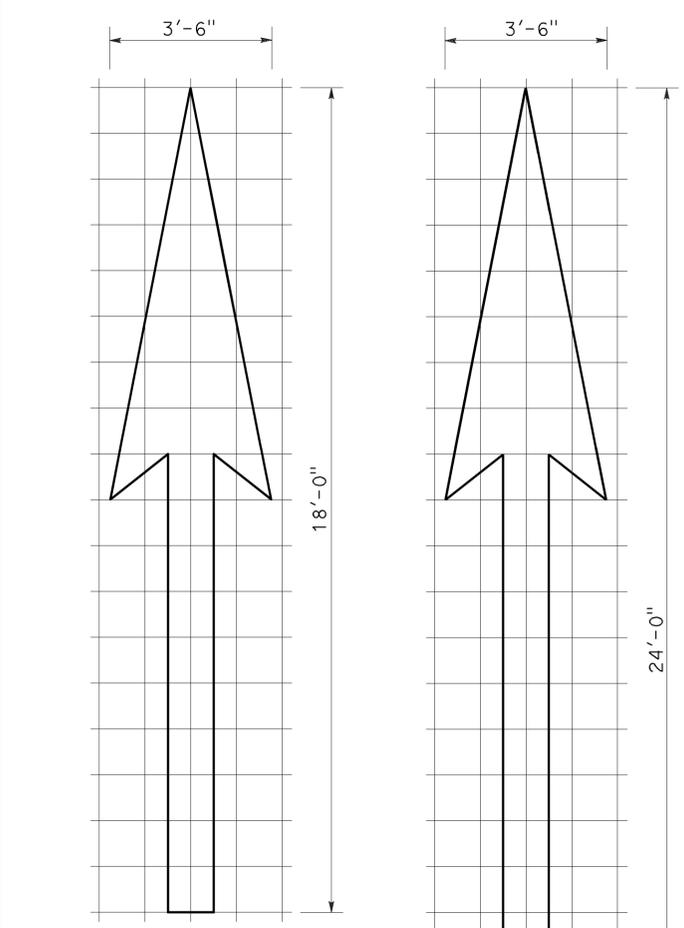
RSP A20C DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A20C DATED MAY 20, 2011 - PAGE 11 OF THE STANDARD PLANS BOOK DATED 2010.

## REVISED STANDARD PLAN RSP A20C

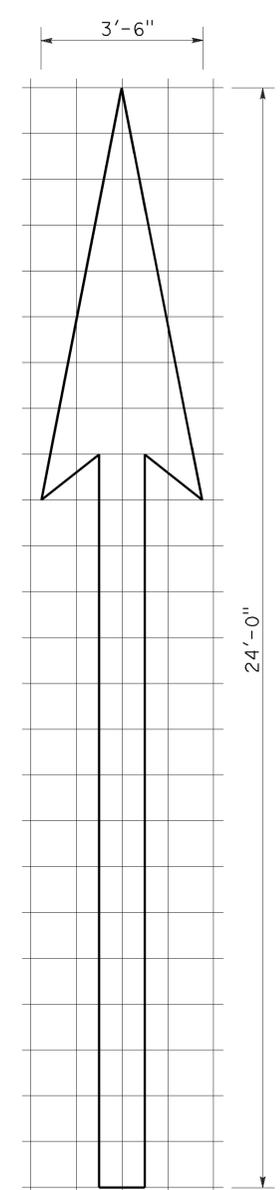
2010 REVISED STANDARD PLAN RSP A20C

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon, SB+ Scr	1,25,68, 101,156	Var	12	35
REGISTERED CIVIL ENGINEER April 20, 2012 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>					

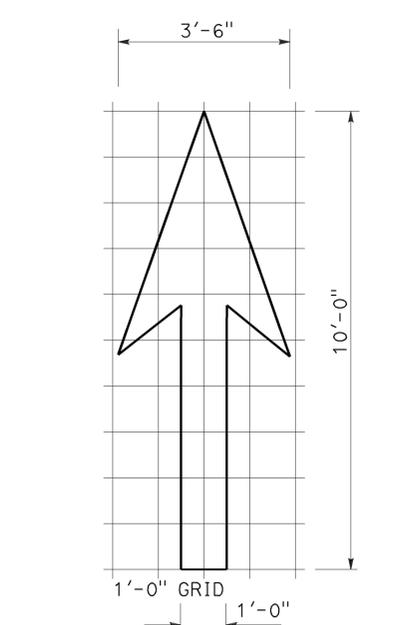
TO ACCOMPANY PLANS DATED 2-1-16



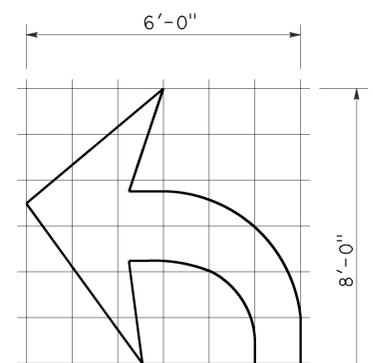
A=25 ft<sup>2</sup>  
**TYPE I 18'-0" ARROW**



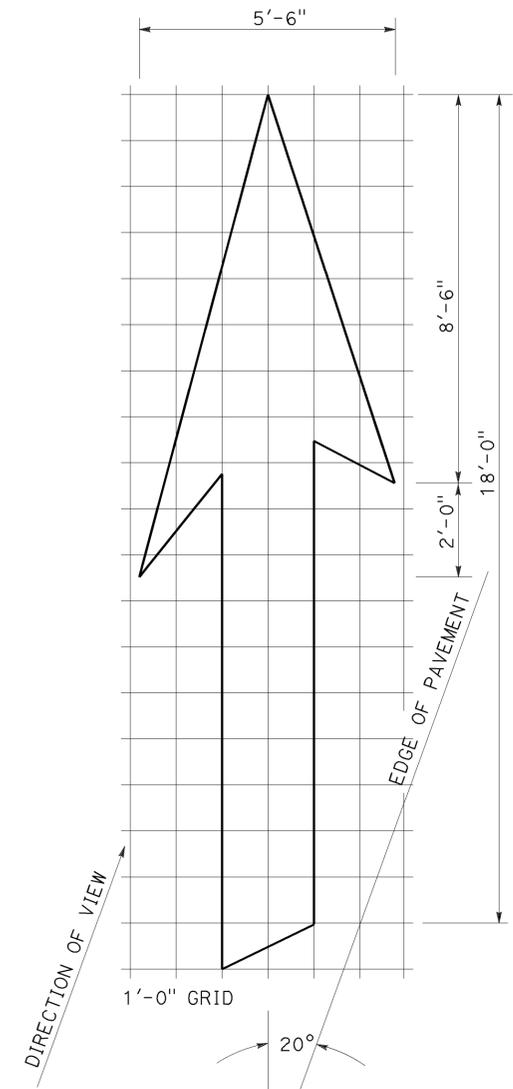
A=31 ft<sup>2</sup>  
**TYPE I 24'-0" ARROW**



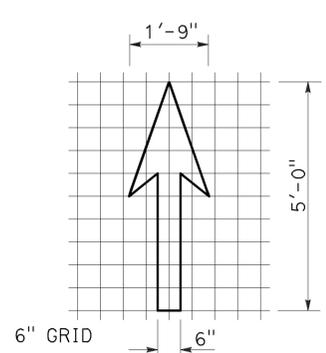
A=14 ft<sup>2</sup>  
**TYPE I 10'-0" ARROW**



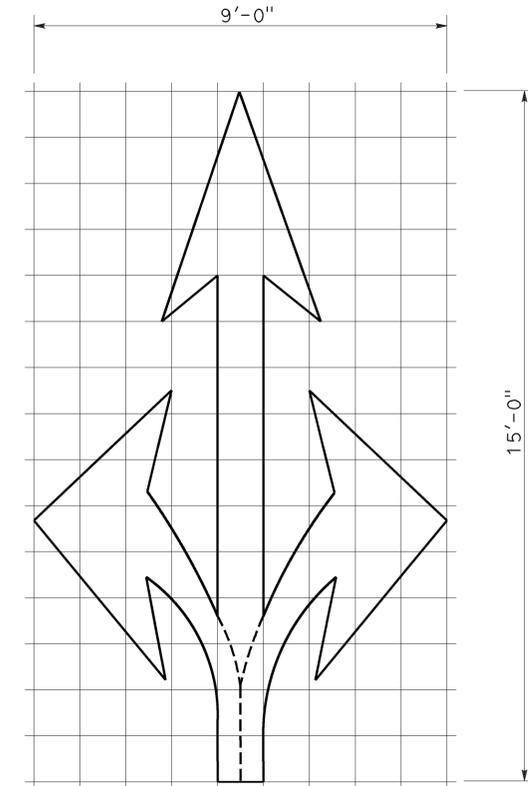
A=15 ft<sup>2</sup>  
**TYPE IV (L) ARROW**  
(For Type IV (R) arrow, use mirror image)



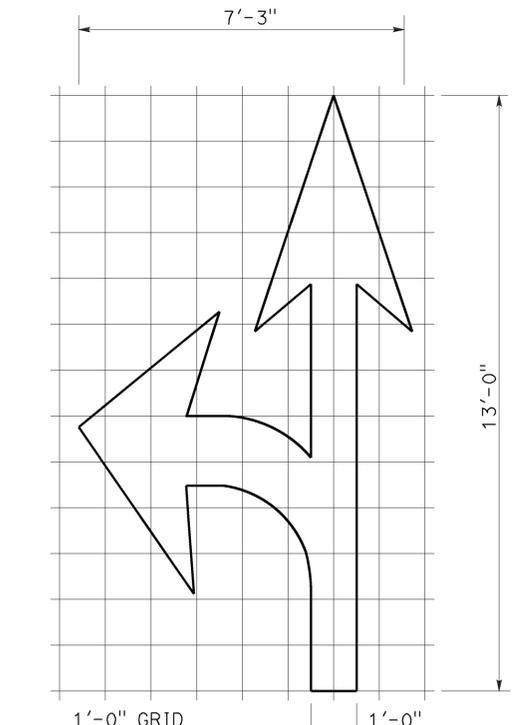
A=42 ft<sup>2</sup>  
**TYPE VI ARROW**  
Right lane drop arrow  
(For left lane, use mirror image)



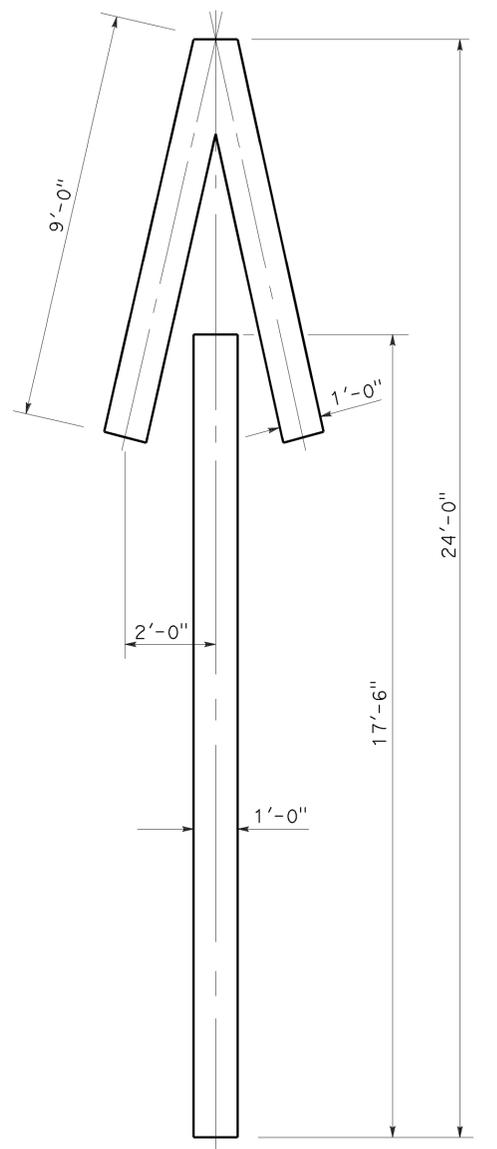
A=3.5 ft<sup>2</sup>  
**BIKE LANE ARROW**



A=36 ft<sup>2</sup>  
**TYPE VIII ARROW**



A=27 ft<sup>2</sup>  
**TYPE VII (L) ARROW**  
(For Type VII (R) arrow, use mirror image)



A=33 ft<sup>2</sup>  
**TYPE V ARROW**

**NOTE:**  
Minor variations in dimensions may be accepted by the Engineer.

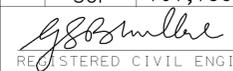
STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**PAVEMENT MARKINGS  
ARROWS**  
NO SCALE

RSP A24A DATED APRIL 20, 2012 SUPERSEDES STANDARD PLAN A24A DATED MAY 20, 2011 - PAGE 13 OF THE STANDARD PLANS BOOK DATED 2010.

**REVISED STANDARD PLAN RSP A24A**

**2010 REVISED STANDARD PLAN RSP A24A**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon, SB+ Scr	1,25,68, 101,156	Var	13	35

  
 REGISTERED CIVIL ENGINEER  
 July 19, 2013  
 PLANS APPROVAL DATE



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TO ACCOMPANY PLANS DATED 2-1-16

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.

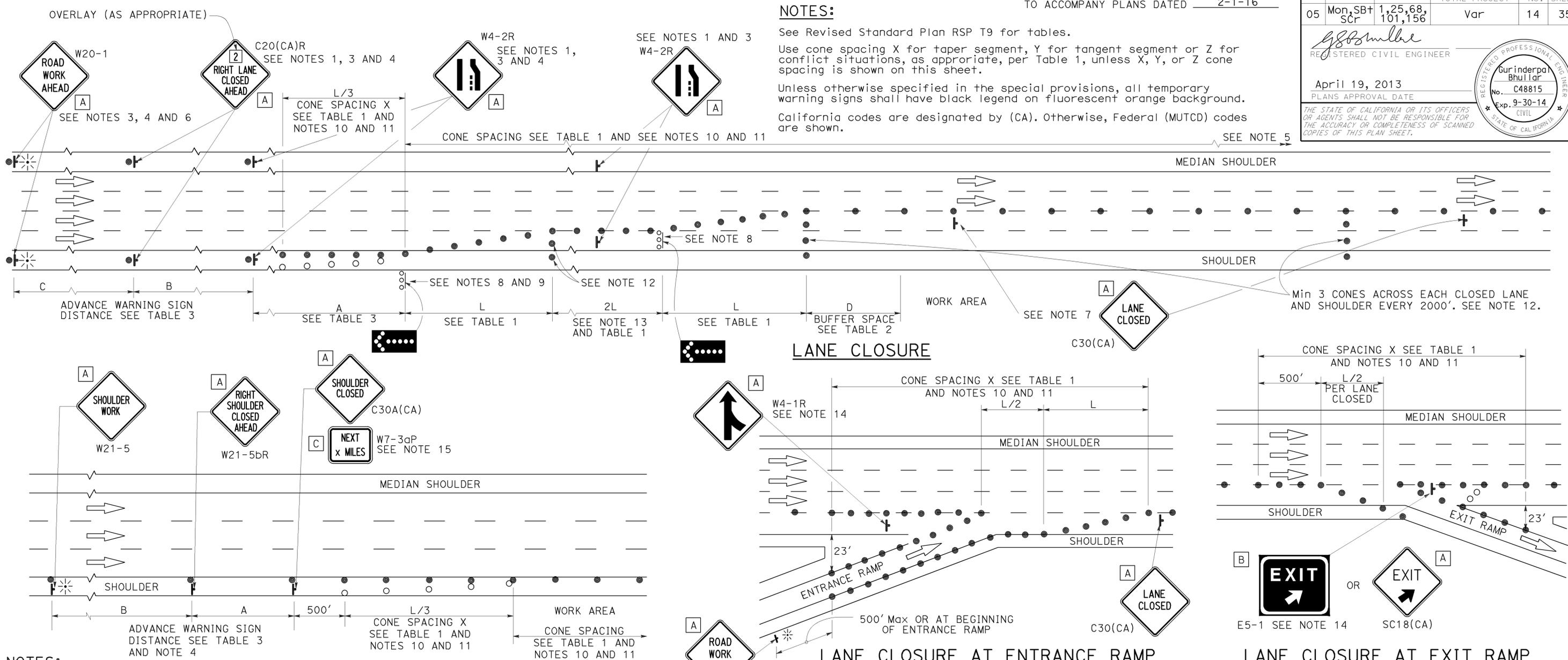
**REVISED STANDARD PLAN RSP T9**

2010 REVISED STANDARD PLAN RSP T9

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon, SB+ Scr	1,25,68, 101,156	Var	14	35

REGISTERED CIVIL ENGINEER  
 April 19, 2013  
 PLANS APPROVAL DATE  
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

2010 REVISED STANDARD PLAN RSP T10



- 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.

- 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)L and W4-2L signs shall be used.
- 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**

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**

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

NO SCALE

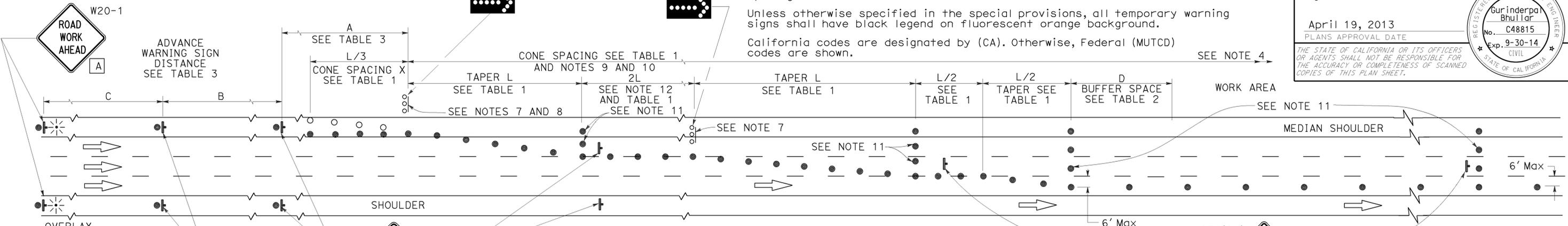
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon, SB+ Scr	1,25,68, 101,156	Var	15	35

REGISTERED CIVIL ENGINEER  
 April 19, 2013  
 PLANS APPROVAL DATE

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

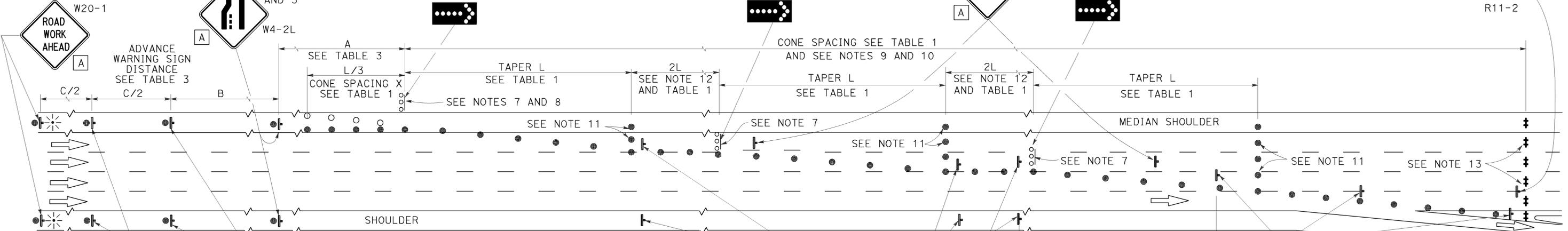
**NOTES:** See Revised Standard Plan RSP T9 for tables.  
 Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.  
 Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on fluorescent orange background.  
 California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

SEE NOTES 3 AND 5



**LANE CLOSURE WITH PARTIAL SHOULDER USE**

SEE NOTES 3 AND 5



**COMPLETE CLOSURE**

**NOTES:**

- Lane closures on the right side using partial median shoulder as a traffic lane shall conform to the details as shown except that C20(CA)R and W4-2R signs shall be used.
- At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
- Each advance warning sign on each side of the roadway shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" X 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
- A G20-2 "END ROAD WORK" sign, with minimum size of 48" x 24" as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within a larger project's limits.
- If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT \_\_\_ MILES", use a C20(CA) sign for the first advance warning sign.
- Place a C30(CA) sign every 2000' throughout length of lane closure.
- One flashing arrow sign for each lane closed. The flashing arrow signs shall be Type I.
- A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at the top of crest vertical curve or on a horizontal curve.
- All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
- Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000' as shown on the "Lane Closure With Partial Shoulder Use" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
- Unless otherwise specified in the special provisions, the 2L tangent shown along lane lines shall be used between the L tapers required for each closed traffic lane.
- A minimum of Two Type II or III barricades shall be placed across each closed lane and shoulder at the location shown and every 2000' within the complete closure area. Within the complete closure area, the transverse alignment of the barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
- When specified in the special provisions, a W20-2 "DETOUR AHEAD" sign is to be used in place of the W20-3 "FREEWAY CLOSED AHEAD" sign.

**SIGN PANEL SIZE (Min)**

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

**LEGEND**

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

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

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

**REVISED STANDARD PLAN RSP T10A**

2010 REVISED STANDARD PLAN RSP T10A

**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
05	Mon, SB+ Scr	1,25,68, 101,156	Var	16	35

*Devinder Singh*  
REGISTERED CIVIL ENGINEER

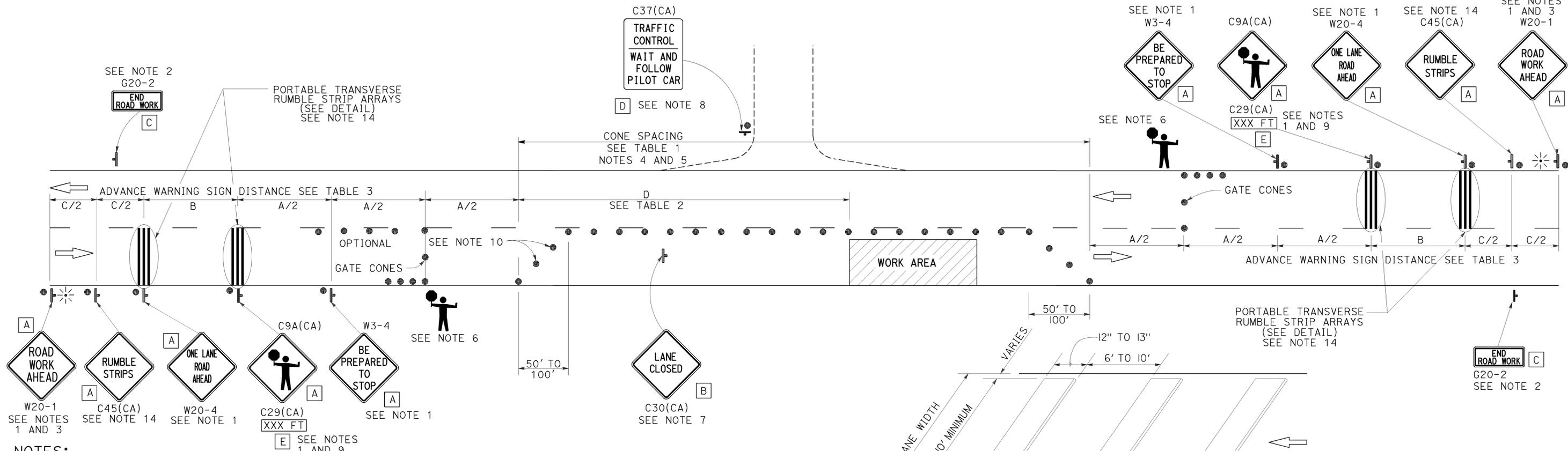
October 30, 2015  
PLANS APPROVAL DATE

Devinder Singh  
No. C50470  
Exp. 6-30-17  
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.

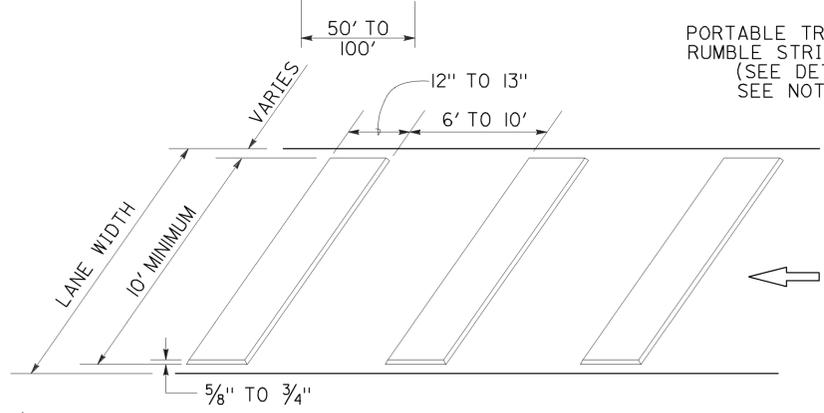
**TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL**

TO ACCOMPANY PLANS DATED 2-1-16



**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
05	Mon, SB+ Scr	1,25,68, 101,156	Var	17	35

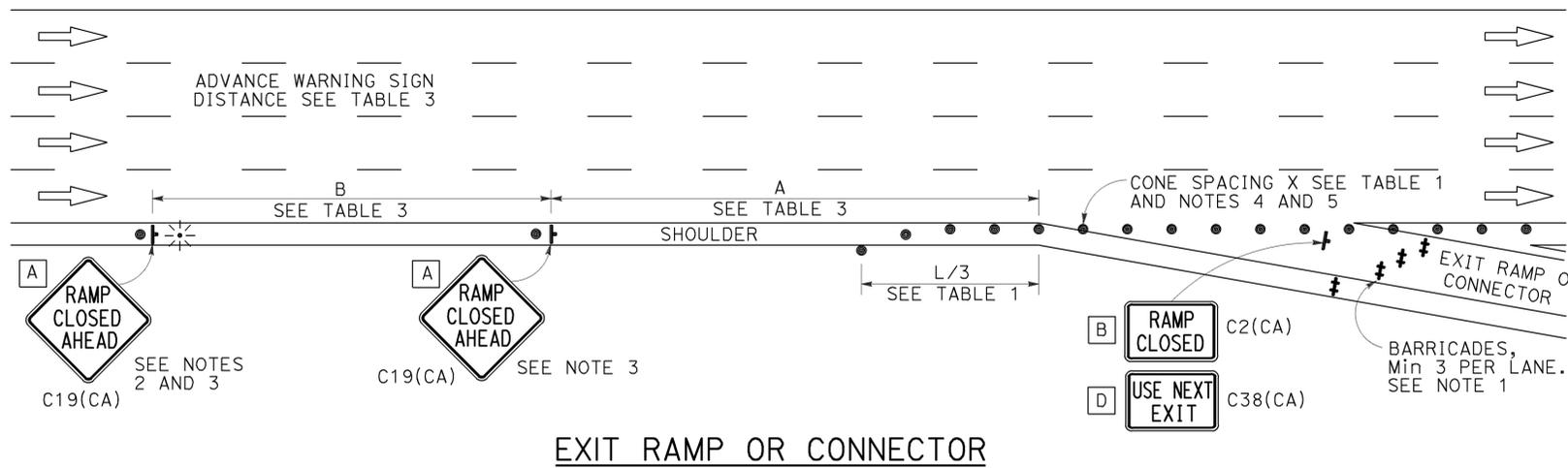
*Gurinderpal Bhullar*  
 REGISTERED CIVIL ENGINEER  
 April 19, 2013  
 PLANS APPROVAL DATE  
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

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

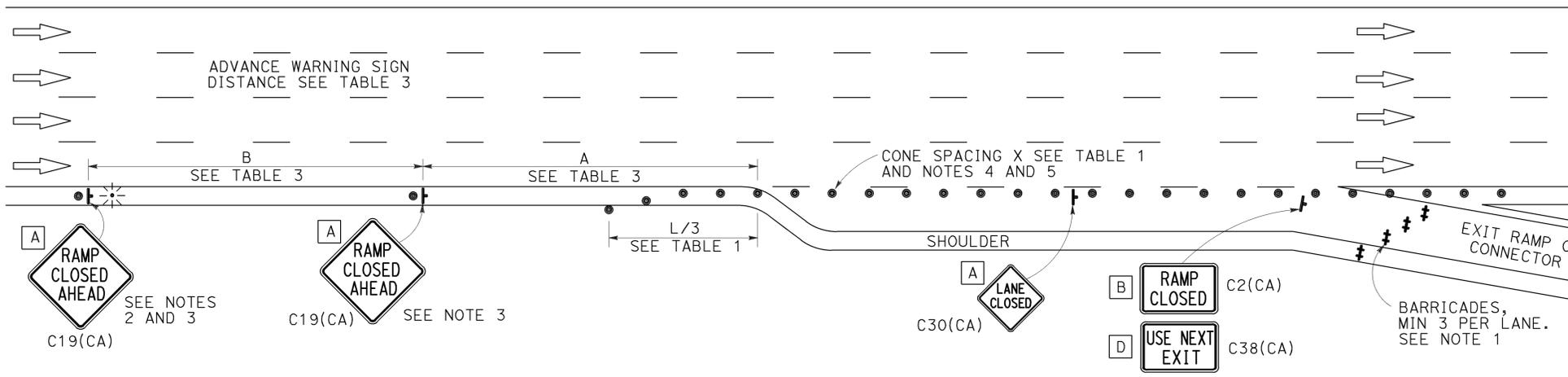
TO ACCOMPANY PLANS DATED 2-1-16

## NOTES:

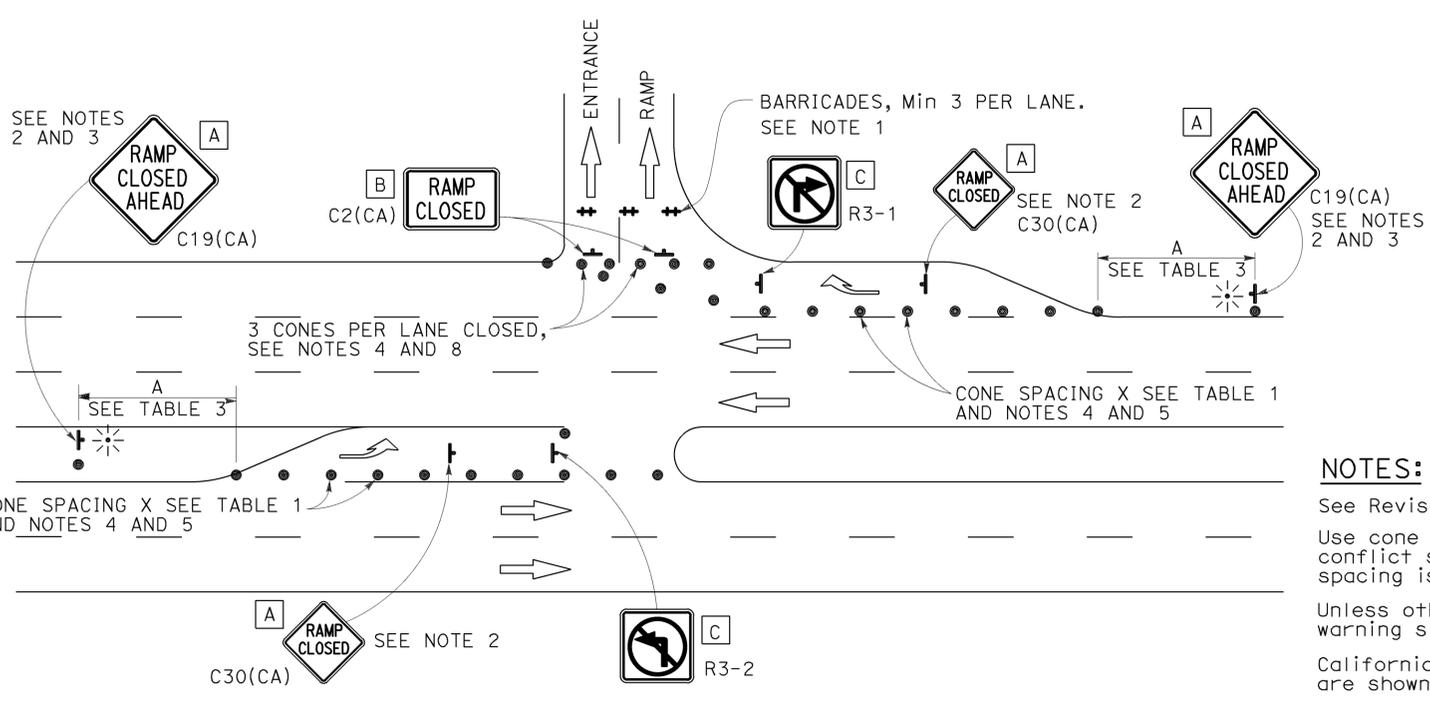
- Barricades shall be Type I, II, or III for closures lasting one week or less and Type III for closures lasting longer than one week.
- In addition to placing the C19(CA) "RAMP CLOSED AHEAD" and C30(CA) "RAMP CLOSED" signs, black on orange overlay plates with the word "CLOSED" may be mounted, as directed by the Engineer, on all guide signs that refer to the closed ramp. The letter size on the overlay shall be the same as the guide sign.
- Each advance C19(CA) "RAMP CLOSED AHEAD" sign shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. A flashing beacon shall be placed on top of the first C19(CA) sign during hours of darkness.
- All cones used for ramp closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime ramp closures only.
- At least one person shall be assigned to provide full time maintenance of traffic control devices, unless otherwise directed by the Engineer.
- The existing "EXIT" signs shall be covered during ramp closures.
- A minimum of 3 cones shall be placed transversely across each closed lane and shoulder.



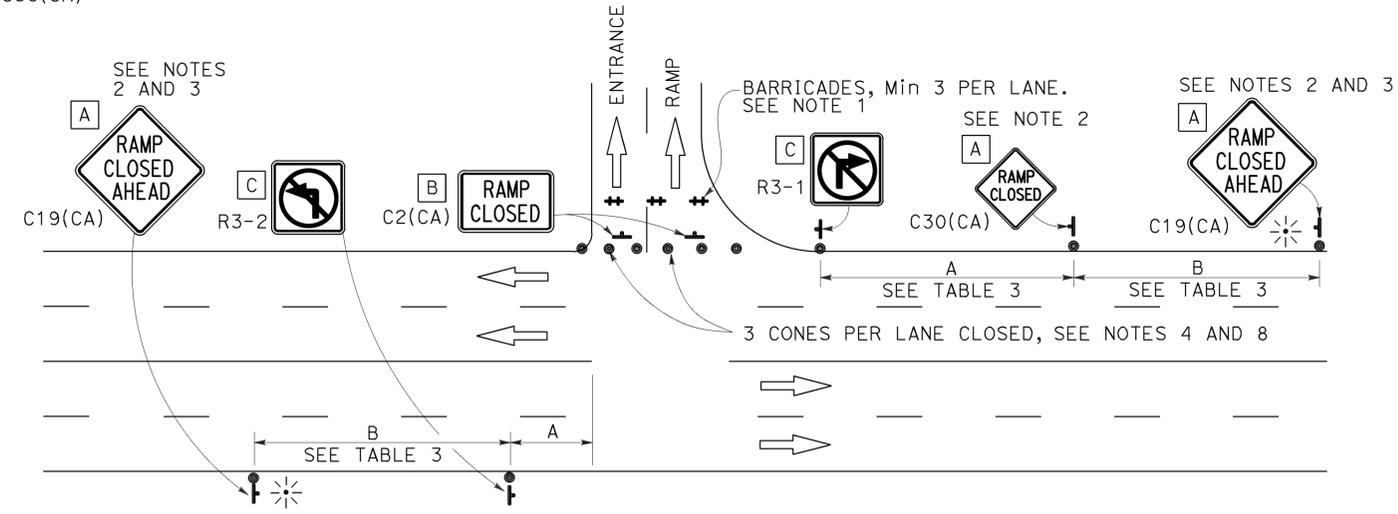
EXIT RAMP OR CONNECTOR



EXIT RAMP OR CONNECTOR WITH ADDITIONAL LANE



ENTRANCE RAMP WITH TURNING POCKETS



ENTRANCE RAMP WITHOUT TURNING POCKETS

## NOTES:

- See Revised Standard Plan RSP T9 for tables.
- Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.
- Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on fluorescent orange background.
- California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

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

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

**REVISED STANDARD PLAN RSP T14**

2010 REVISED STANDARD PLAN RSP T14

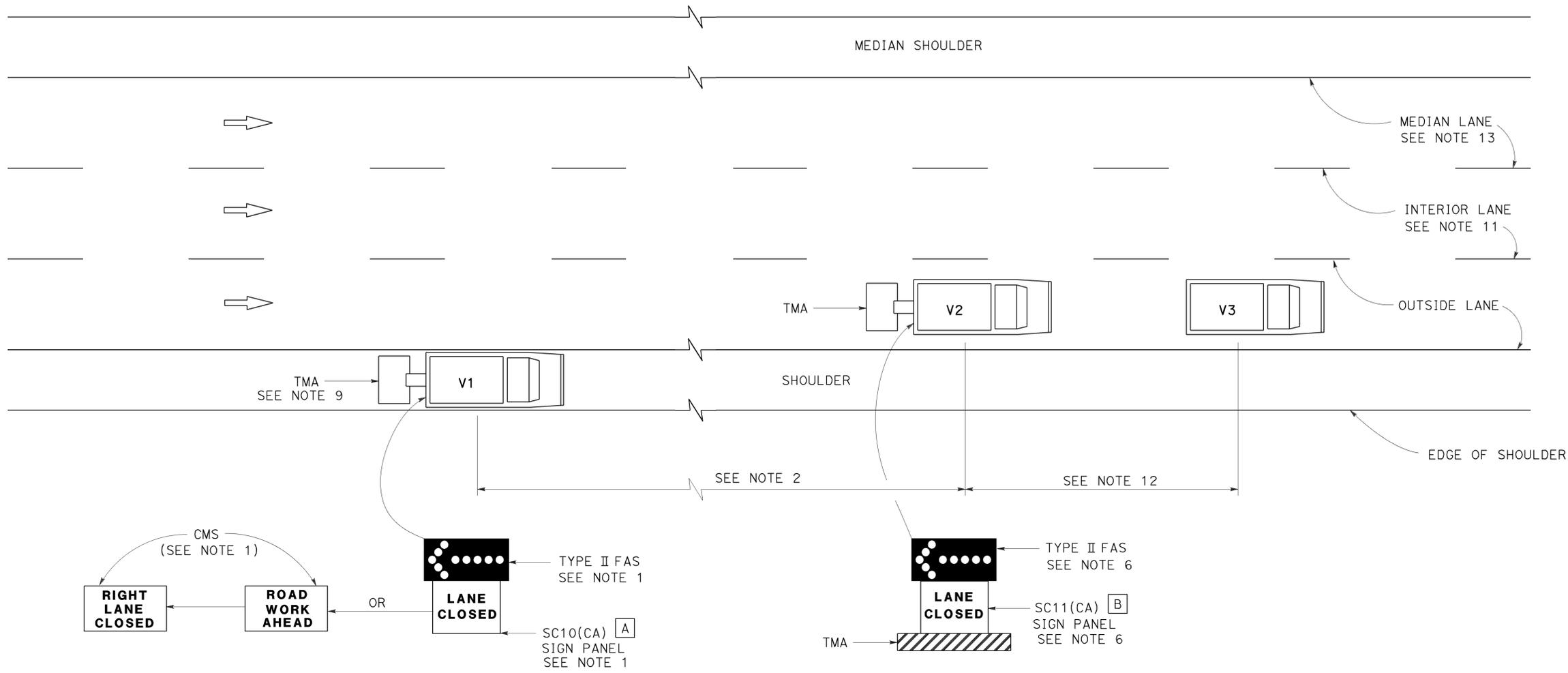
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon, SB+ Scr	1,25,68, 101,156	Var	18	35

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

April 19, 2013  
 PLANS APPROVAL DATE

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

TO ACCOMPANY PLANS DATED 2-1-16



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

**SIGN PANEL SIZE (Min)**

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

**LEGEND**

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

**NOTES:**

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

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

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

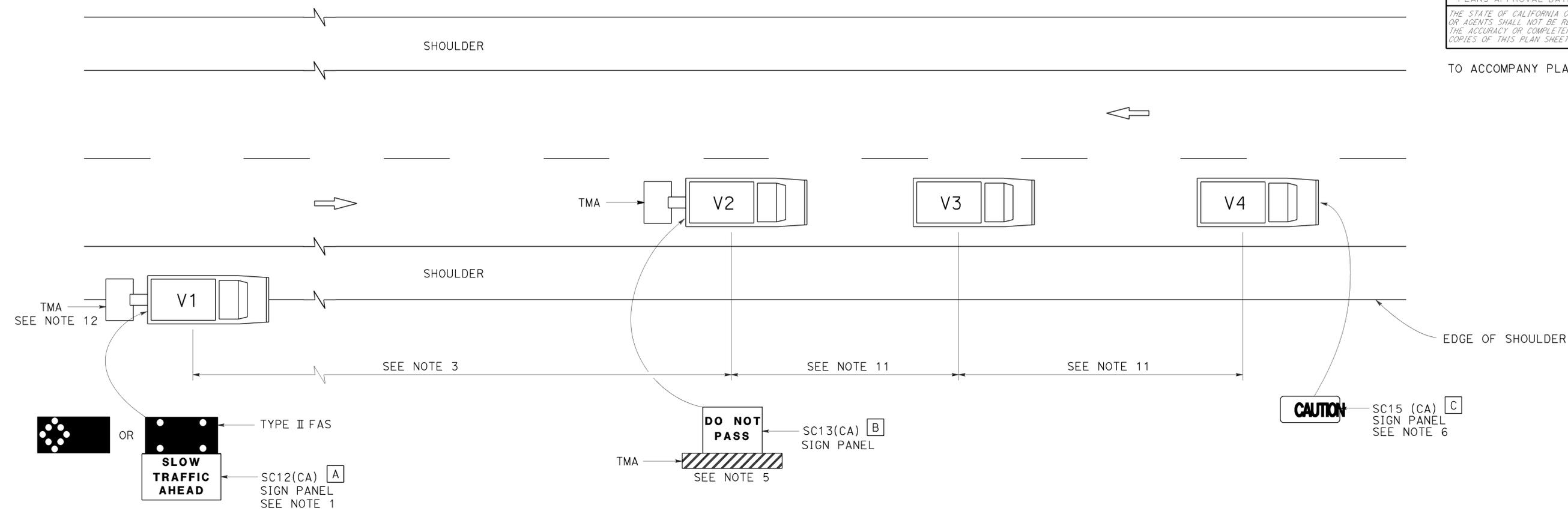
NO SCALE

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

**REVISED STANDARD PLAN RSP T15**

2010 REVISED STANDARD PLAN RSP T15

TO ACCOMPANY PLANS DATED 2-1-16



**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"

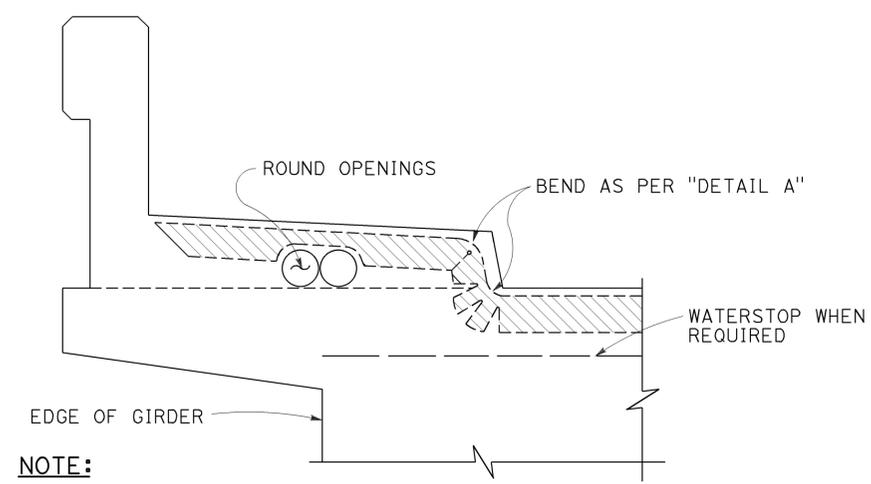
STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**TRAFFIC CONTROL SYSTEM  
 FOR MOVING LANE CLOSURE  
 ON TWO LANE HIGHWAYS**  
 NO SCALE

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**

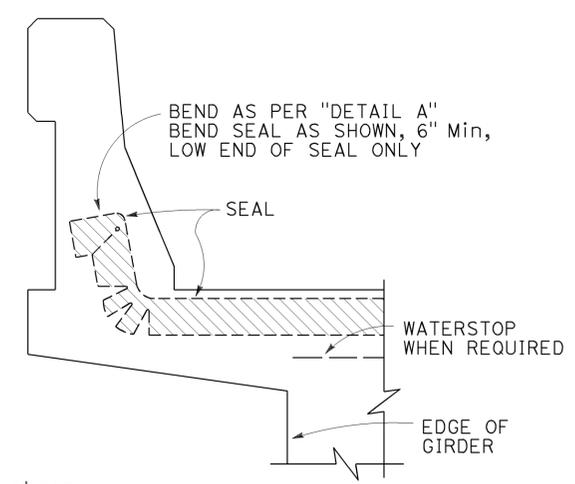
2010 REVISED STANDARD PLAN RSP T17

TO ACCOMPANY PLANS DATED 2-1-16

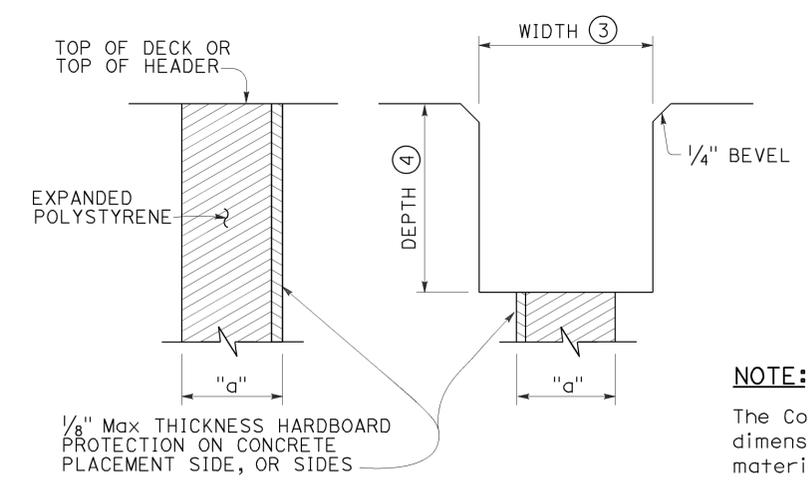


**NOTE:**  
 Type "B" seal shown. Type "A" seals to conform to the general path of seal shown, cuts for bending not required. Bend type "A" seals 3" up into curb or barrier rail on only the low end of the seal.

**CONCRETE BARRIER AND SIDEWALK**



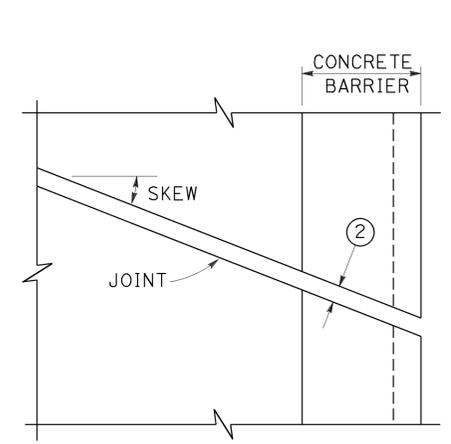
**CONCRETE BARRIER**



**FORMING DETAIL SAWCUT DETAIL**

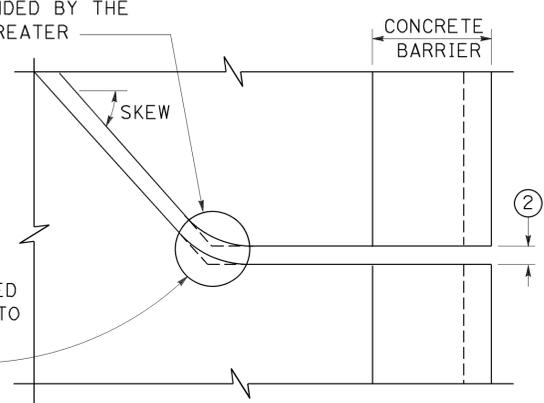
**NOTE:**  
 The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

**JOINT SEALS DETAILS**



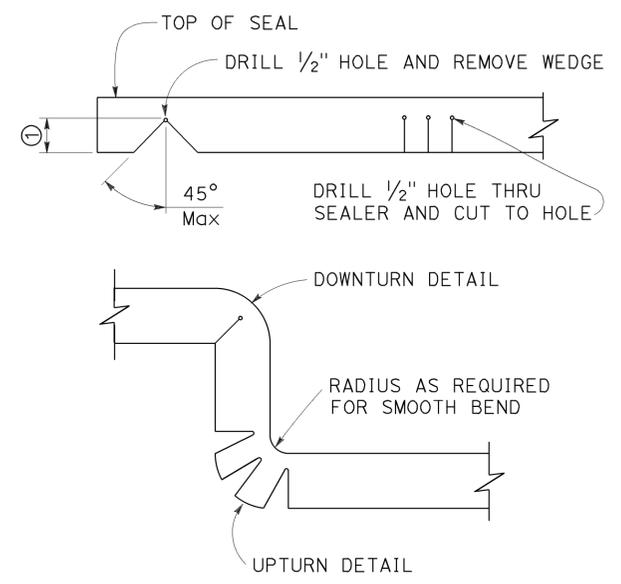
**PLAN OF JOINT (SKEW ≤ 20°)**

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



**PLAN OF JOINT (SKEW > 20°)**

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

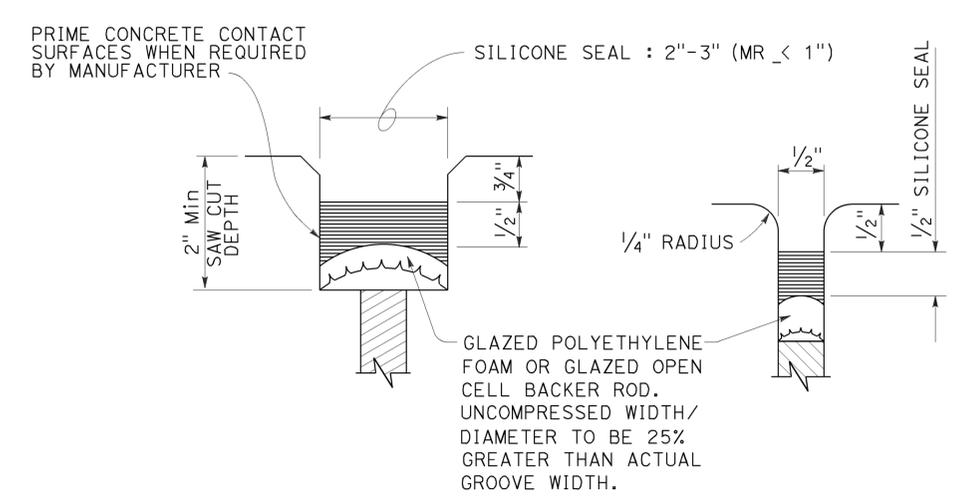


**DETAIL A**

- 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<sub>2</sub>) 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.

**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"

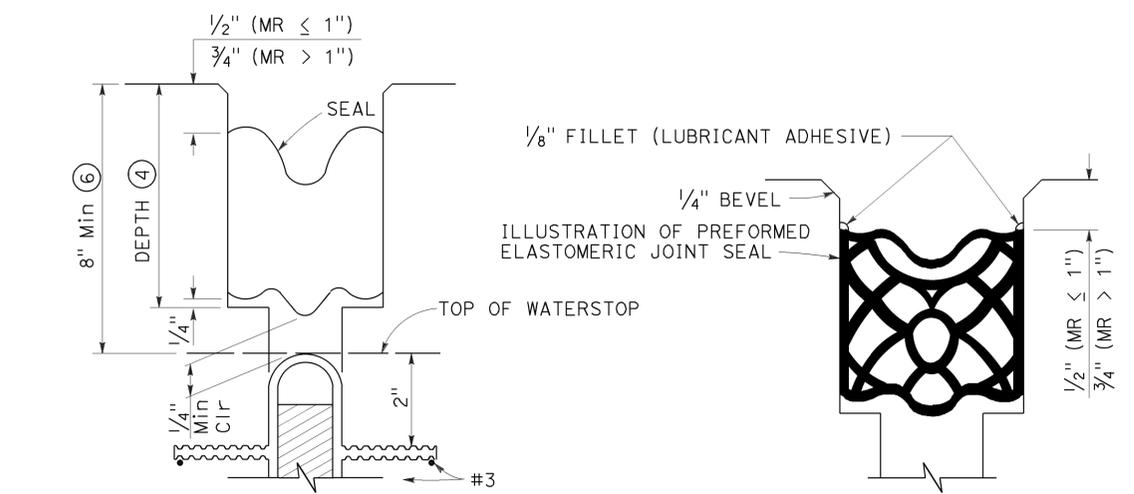


**TYPE A SEAL**

Movement rating : Silicone = 1" Max

**TYPE AL SEAL**

Longitudinal joints only



**TYPE B JOINT SEAL IN MINIMUM WIDTH POSITION (W<sub>2</sub>)**

**TYPE B SEAL**

Movement Rating ≤ 2"

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

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

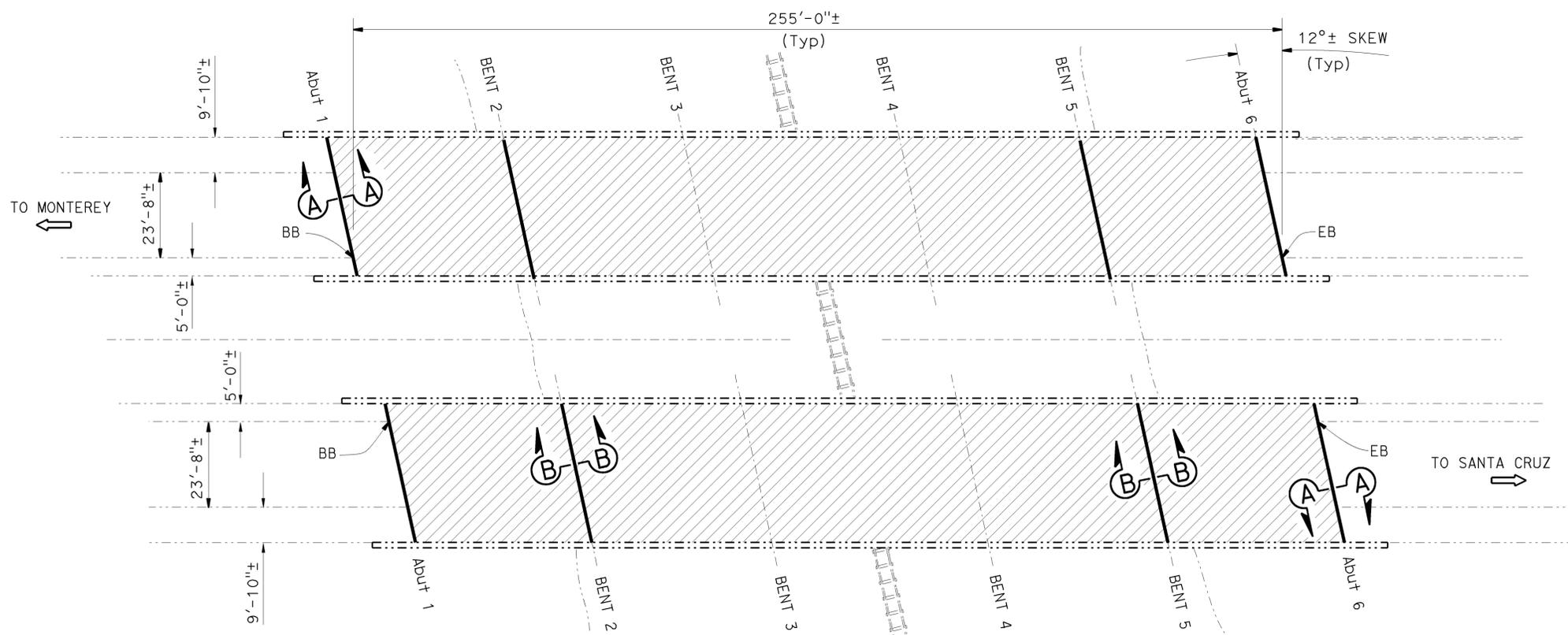
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SCR, SB+, Mon	1,25,68, 101,156,	Var	21	35

**Tim Campbell** 12-04-15  
 REGISTERED CIVIL ENGINEER DATE

2-1-16  
 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.

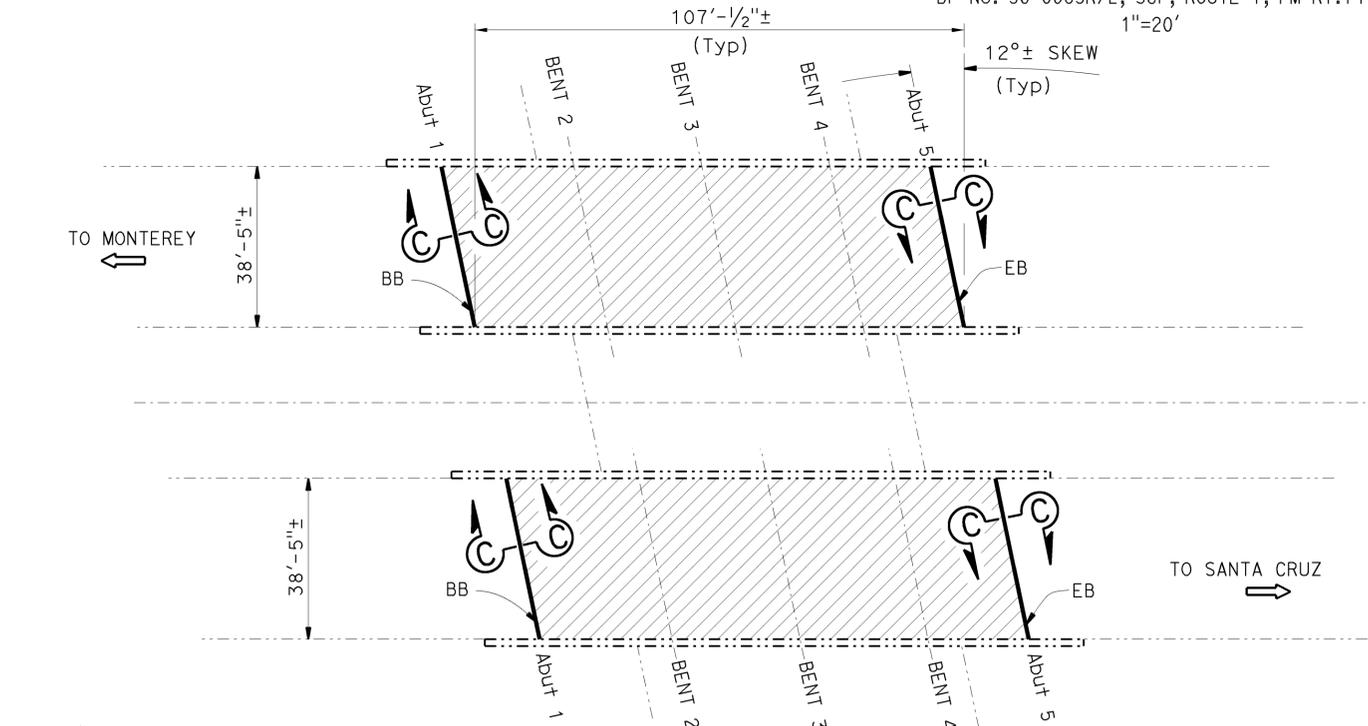
REGISTERED PROFESSIONAL ENGINEER  
**TIM CAMPBELL**  
 No. 63268  
 Exp. 06-30-16  
 CIVIL  
 STATE OF CALIFORNIA



NOTE: For section "A-A" AND "B-B" see "JOINT SEAL DETAILS NO. 3" sheet.

**WEST WATSONVILLE OVERHEAD**

Br No. 36-0083R/L, SCR, ROUTE 1, PM R1.14  
1"=20'



NOTE: For section "C-C" see "JOINT SEAL DETAILS NO. 4" sheet.

**WATSONVILLE SLOUGH**

Br No. 36-0090R/L, SCR, ROUTE 1, PM R1.35  
1"=20'

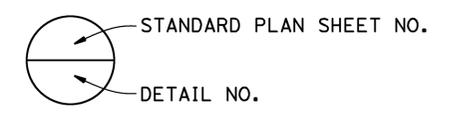
- NOTES: (APPLY TO THIS SHEET ONLY)
- Indicates limits of prepare concrete bridge deck surface and treat bridge deck with Methacrylate.
  - Indicates limits of clean expansion joint and install new joint seal. For details, see "JOINT SEAL DETAILS NO. 1" and "JOINT SEAL DETAILS NO. 2" sheets.

NOTES: (APPLY TO ALL SHEETS)

- - - - - Indicates existing.
- THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

**STANDARD PLANS DATED 2010**

SHEET NO.	TITLE
A10A	ABBREVIATIONS (SHEET 1 OF 2)
A10B	ABBREVIATIONS (SHEET 2 OF 2)
B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")



**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	JOINT SEAL DETAILS NO. 1
10	JOINT SEAL DETAILS NO. 2
11	JOINT SEAL DETAILS NO. 3
12	JOINT SEAL DETAILS NO. 4
13	JOINT SEAL DETAILS NO. 5
14	JOINT SEAL DETAILS NO. 6
15	JOINT SEAL DETAILS NO. 7

QUANTITIES

WEST WATSONVILLE OVERHEAD	BRIDGE NO. 36-0083R/L		
PREPARE CONCRETE BRIDGE DECK SURFACE	19,636	SQFT	
TREAT BRIDGE DECK	19,636	SQFT	
FURNISH BRIDGE DECK TREATMENT MATERIAL	220	GAL	
BRIDGE REMOVAL (PORTION), LOCATION A	LUMP	SUM	
STRUCTURAL CONCRETE, BRIDGE	4	CY	
CLEAN EXPANSION JOINT	320	LF	
JOINT SEAL (MR 1")	160	LF	
JOINT SEAL (MR 1 1/2")	160	LF	
BAR REINFORCING STEEL (BRIDGE)	86	LB	

QUANTITIES

WATSONVILLE SLOUGH	BRIDGE NO. 36-0090R/L		
PUBLIC SAFETY PLAN	LUMP	SUM	
PREPARE CONCRETE BRIDGE DECK SURFACE	8,226	SQFT	
TREAT BRIDGE DECK	8,226	SQFT	
FURNISH BRIDGE DECK TREATMENT MATERIAL	92	GAL	
BRIDGE REMOVAL (PORTION), LOCATION B	LUMP	SUM	
STRUCTURAL CONCRETE, BRIDGE	4	CY	
CLEAN EXPANSION JOINT	160	LF	
JOINT SEAL (MR 1")	160	LF	
BAR REINFORCING STEEL (BRIDGE)	492	LB	

DESIGN	BY TIM CAMPBELL	CHECKED PAT PIACENTINI	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY DAVID KISH	CHECKED PAT PIACENTINI	LAYOUT	BY DAVID KISH
QUANTITIES	BY TIM CAMPBELL	CHECKED PAT PIACENTINI	SPECIFICATIONS	BY CRAIG WHITTEN

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS  
POST MILE VARIES

**ROUTE 1, 25, 68, 101, & 156**

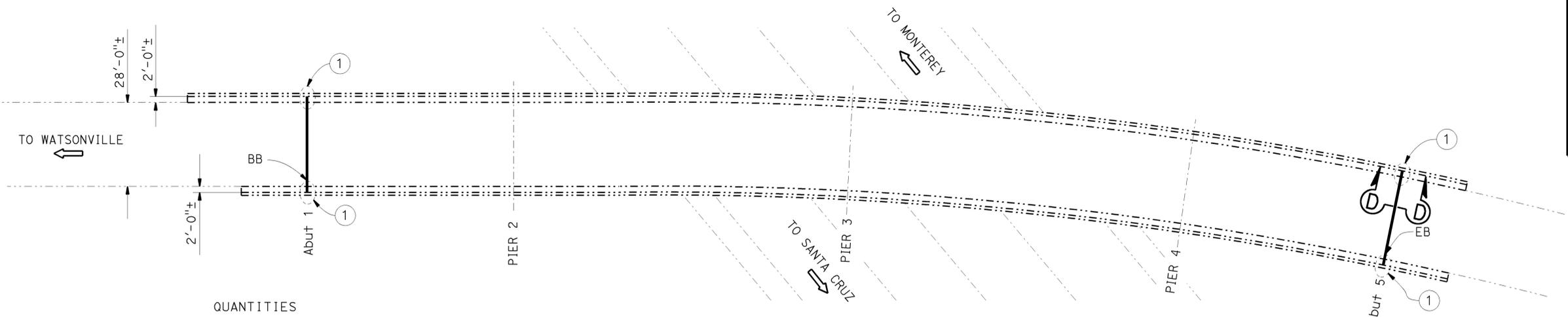
**GENERAL PLAN NO. 1**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SCR, SB+, Mon	1,25,68, 101,156,	Var	22	35

**Tim Campbell** 12-04-15  
 REGISTERED CIVIL ENGINEER DATE

2-1-16  
 PLANS APPROVAL DATE

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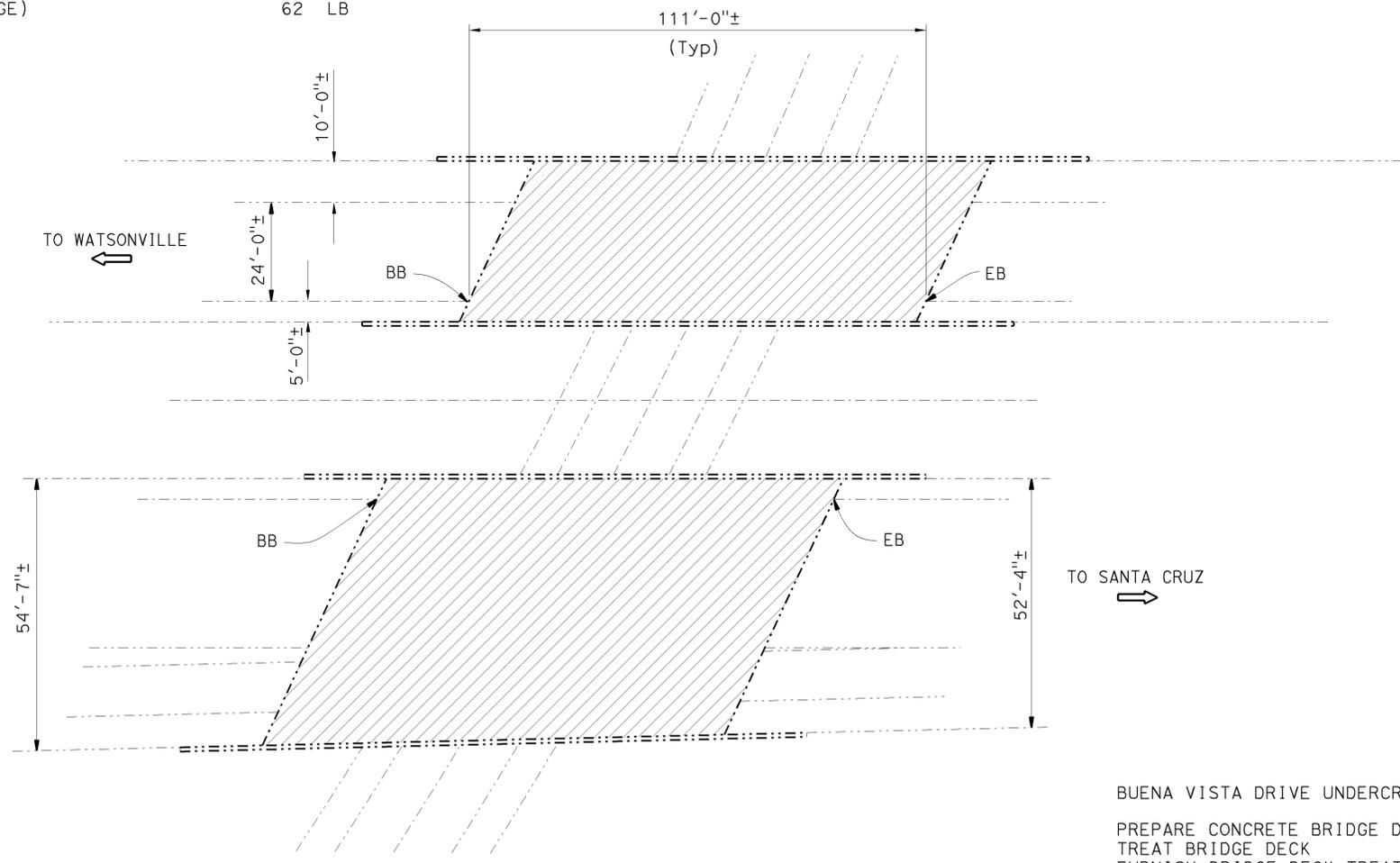
QUANTITIES

S1-E152 CONNECTOR OVERCROSSING	BRIDGE NO. 36-0084F
BRIDGE REMOVAL (PORTION), LOCATION C	LUMP SUM
STRUCTURAL CONCRETE, BRIDGE	1 CY
CLEAN EXPANSION JOINT	68 LF
JOINT SEAL (MR 1 1/2")	68 LF
BAR REINFORCING STEEL (BRIDGE)	62 LB

NOTE: For section "D-D" see "JOINT SEAL DETAILS NO. 4" sheet.

**S1-E152 CONNECTOR OVERCROSSING**

Br No. 36-0084F, SCR, ROUTE 1, PM R2.68  
1"=20'



- NOTES: (APPLY TO THIS SHEET ONLY)
- 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 NO. 1" and "JOINT SEAL DETAILS NO. 2" sheets.
  - ① For joint seal details, see "JOINT SEAL AT SIDEWALK DETAIL NO. 1" on "JOINT SEAL DETAILS NO. 2" sheet.

QUANTITIES

BUENA VISTA DRIVE UNDERCROSSING	BRIDGE NO. 36-0092R/L
PREPARE CONCRETE BRIDGE DECK SURFACE	10,263 SQFT
TREAT BRIDGE DECK	10,263 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	114 GAL

**BUENA VISTA DRIVE UNDERCROSSING**

Br No. 36-0092R/L, SCR, ROUTE 1, PM R4.07  
1"=20'

12-04-15  
 DESIGN ENGINEER

DESIGN	BY TIM CAMPBELL	CHECKED PAT PIACENTINI	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY DAVID KISH	CHECKED PAT PIACENTINI	LAYOUT	BY DAVID KISH
QUANTITIES	BY TIM CAMPBELL	CHECKED PAT PIACENTINI	SPECIFICATIONS	BY CRAIG WHITTEN

**STATE OF CALIFORNIA**  
 DEPARTMENT OF TRANSPORTATION

**DIVISION OF MAINTENANCE**  
**STRUCTURE MAINTENANCE DESIGN**

**ROUTE 1, 25, 68, 101, & 156**  
**GENERAL PLAN NO. 2**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SCR, SBT, Mon	1,25,68, 101,156,	Var	23	35

**Tim Campbell** 12-04-15  
 REGISTERED CIVIL ENGINEER DATE

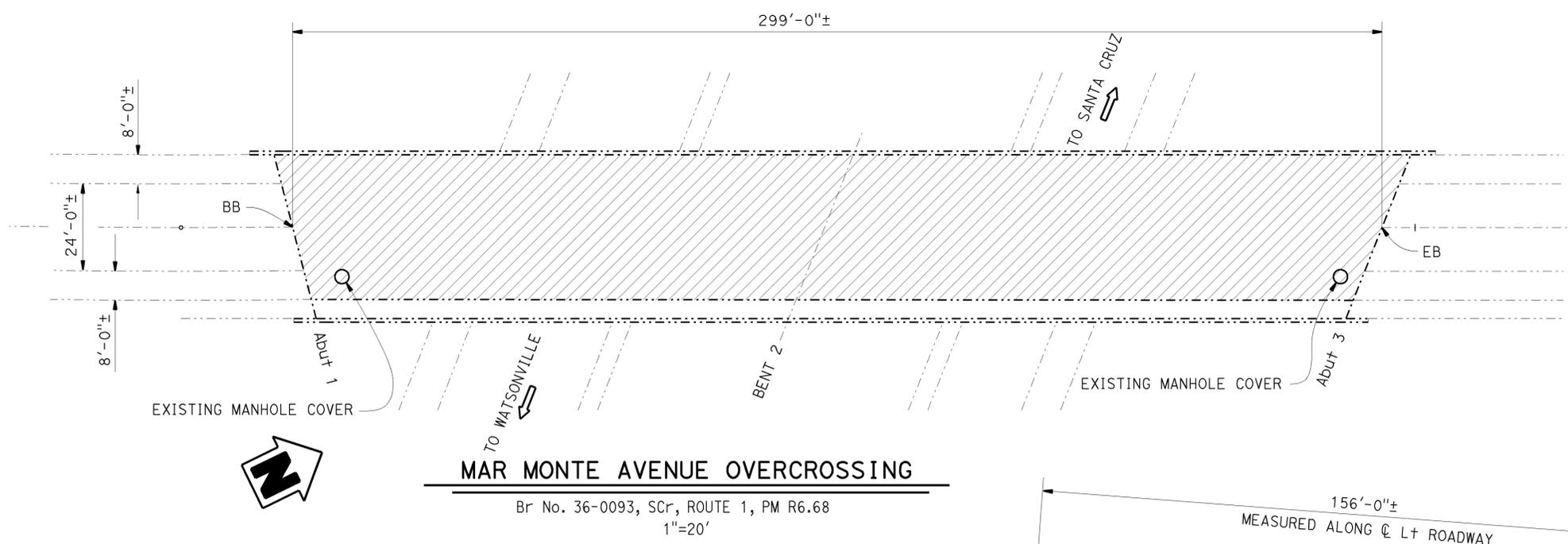
2-1-16  
 PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER  
**TIM CAMPBELL**  
 No. 63268  
 Exp. 06-30-16  
 CIVIL  
 STATE OF CALIFORNIA

NOTES: (APPLY TO THIS SHEET ONLY)

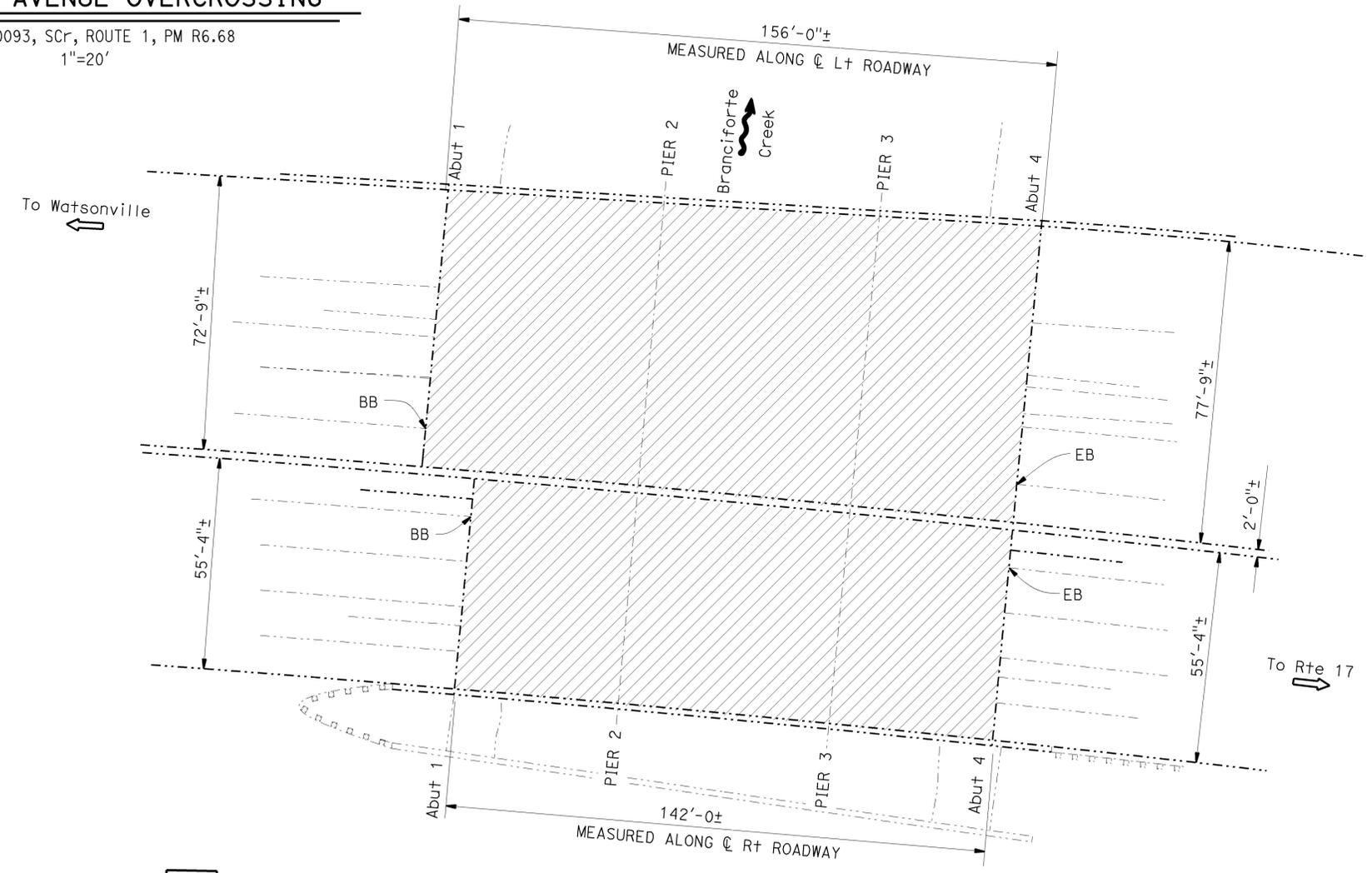
Indicates limits of prepare concrete bridge deck surface and treat bridge deck with Methacrylate.



**MAR MONTE AVENUE OVERCROSSING**

Br No. 36-0093, SCR, ROUTE 1, PM R6.68  
 1"=20'

QUANTITIES		BRIDGE NO. 36-0093	
MAR MONTE AVENUE OVERCROSSING		LUMP SUM	
PUBLIC SAFETY PLAN		11,960	SQFT
PREPARE CONCRETE BRIDGE DECK SURFACE		11,960	SQFT
TREAT BRIDGE DECK			
FURNISH BRIDGE DECK TREATMENT MATERIAL		132	GAL



**BRANCIFORTE CREEK**

Br No. 36-0060, SCR, ROUTE 1, PM 16.43  
 1"=20'

QUANTITIES		BRIDGE NO. 36-0060	
BRANCIFORTE CREEK		LUMP SUM	
PUBLIC SAFETY PLAN		19,597	SQFT
PREPARE CONCRETE BRIDGE DECK SURFACE		19,597	SQFT
TREAT BRIDGE DECK			
FURNISH BRIDGE DECK TREATMENT MATERIAL		217	GAL

12-04-15  
 DESIGN ENGINEER

DESIGN	BY TIM CAMPBELL	CHECKED PAT PIACENTINI	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY DAVID KISH	CHECKED PAT PIACENTINI	LAYOUT	BY DAVID KISH
QUANTITIES	BY TIM CAMPBELL	CHECKED PAT PIACENTINI	SPECIFICATIONS	BY CRAIG WHITTEN

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS  
 POST MILE VARIES

**ROUTE 1, 25, 68, 101, & 156**  
**GENERAL PLAN NO. 3**

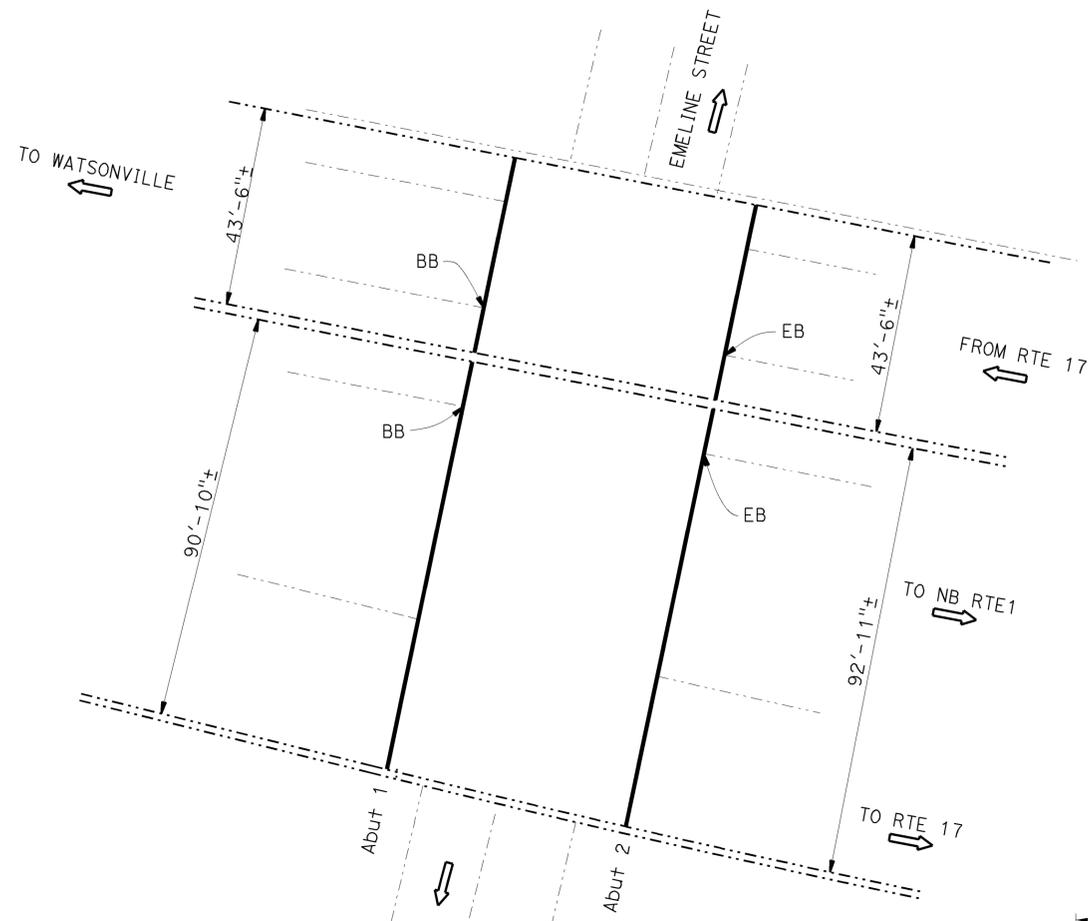
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SCR, SB+, Mon	1,25,68, 101,156,	Var	24	35

**Tim Campbell** 12-04-15  
 REGISTERED CIVIL ENGINEER DATE

2-1-16  
 PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER  
**TIM CAMPBELL**  
 No. 63268  
 Exp. 06-30-16  
 CIVIL  
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QUANTITIES  
 EMELINE STREET UNDERCROSSING  
 CLEAN EXPANSION JOINT  
 JOINT SEAL (MR 1 1/2")

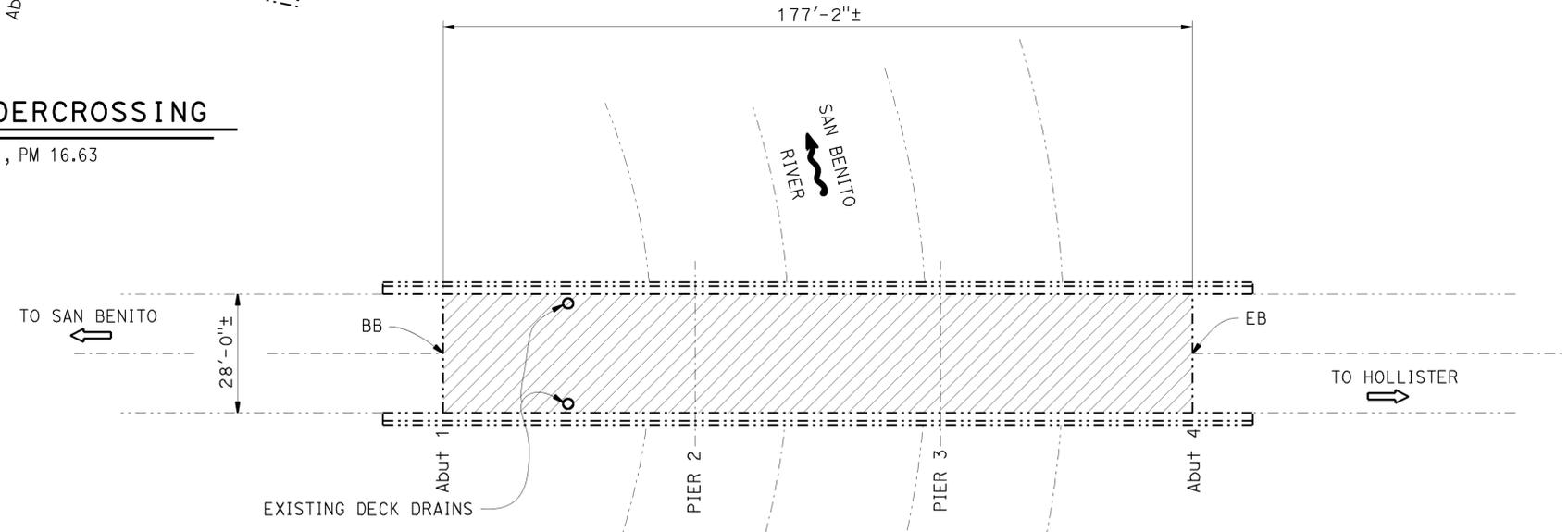
BRIDGE NO. 36-0105  
 274 LF  
 274 LF

NOTES: (APPLY TO THIS SHEET ONLY)

 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 NO. 1" and "JOINT SEAL DETAILS NO. 2" sheets.

**N**  
**EMELINE STREET UNDERCROSSING**  
 Br No. 36-0105, SCR, ROUTE 1, PM 16.63  
 1"=20'



QUANTITIES  
 SAN BENITO RIVER  
 PUBLIC SAFETY PLAN  
 PREPARE CONCRETE BRIDGE DECK SURFACE  
 TREAT BRIDGE DECK  
 FURNISH BRIDGE DECK TREATMENT MATERIAL

BRIDGE NO. 43-0015  
 LUMP SUM  
 4,961 SQFT  
 4,961 SQFT  
 55 GAL

**N**  
**SAN BENITO RIVER**  
 Br No. 43-0015, SB+, ROUTE 25, PM R30.05  
 1"=20'

  
 12-04-15  
 DESIGN ENGINEER

DESIGN	BY TIM CAMPBELL	CHECKED PAT PIACENTINI	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY DAVID KISH	CHECKED PAT PIACENTINI	LAYOUT	BY DAVID KISH
QUANTITIES	BY TIM CAMPBELL	CHECKED PAT PIACENTINI	SPECIFICATIONS	BY CRAIG WHITTEN

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS  
 POST MILE VARIES

**ROUTE 1, 25, 68, 101, & 156**  
**GENERAL PLAN NO. 4**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SCR, SB+, Mon	1,25,68, 101,156,	Var	25	35

12-04-15  
 REGISTERED CIVIL ENGINEER DATE  
 2-1-16  
 PLANS APPROVAL DATE  
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NOTES: (APPLY TO THIS SHEET ONLY)



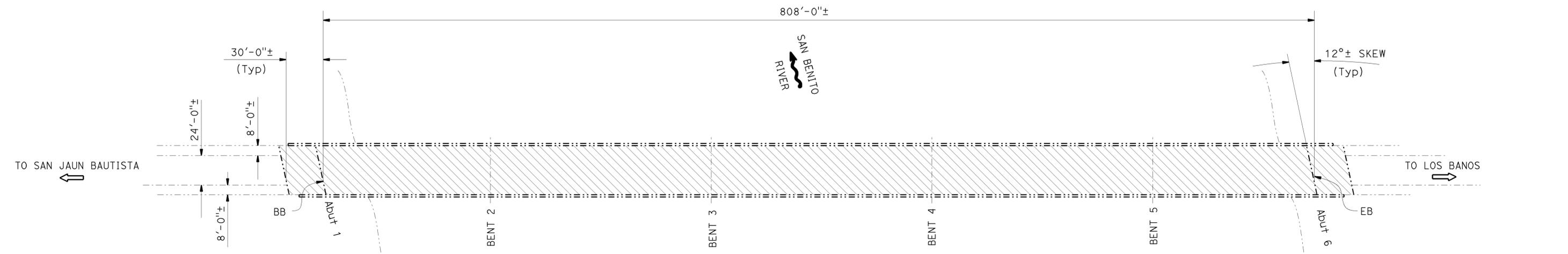
Indicates limits of prepare concrete bridge deck surface. Place new multilayer polymer overlay. Prior to placing new multilayer polymer overlay, remove unsound concrete and patch with rapid setting concrete, as shown on the "JOINT AND DECK REPAIR DETAIL" on "JOINT SEAL DETAILS NO. 1" sheet.



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

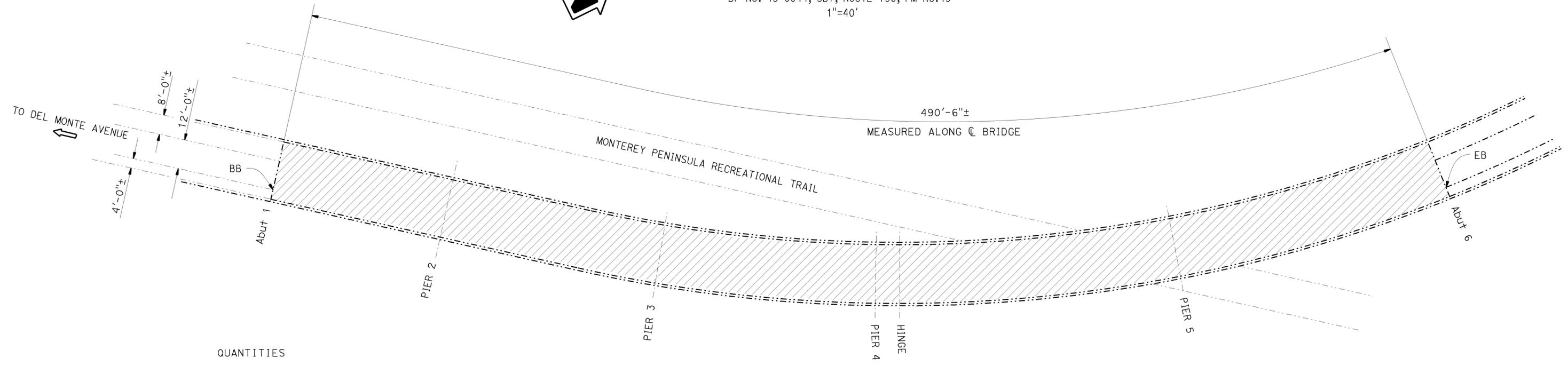
QUANTITIES

SAN BENITO RIVER	BRIDGE NO. 43-0044
RAPID SETTING CONCRETE (PATCH)	434 CF
REMOVE UNSOUND CONCRETE	434 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	34,720 SQFT
MULTILAYER POLYMER OVERLAY	34,720 SQFT



**SAN BENITO RIVER**

Br No. 43-0044, SB+, ROUTE 156, PM R8.45  
1"=40'



**DEL MONTE OFF RAMP OVERCROSSING**

Br No. 44-0157K, Mon, ROUTE 1, PM R78.85  
1"=20'

QUANTITIES

DEL MONTE OFF RAMP OVERCROSSING	BRIDGE NO. 44-0157K
PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	11,772 SQFT
TREAT BRIDGE DECK	11,772 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	131 GAL

12-04-15  
 DESIGN ENGINEER

DESIGN	BY TIM CAMPBELL	CHECKED PAT PIACENTINI	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY DAVID KISH	CHECKED PAT PIACENTINI	LAYOUT	BY DAVID KISH
QUANTITIES	BY TIM CAMPBELL	CHECKED PAT PIACENTINI	SPECIFICATIONS	BY CRAIG WHITTEN

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS  
 POST MILE VARIES  
**ROUTE 1, 25, 68, 101, & 156**  
**GENERAL PLAN NO. 5**

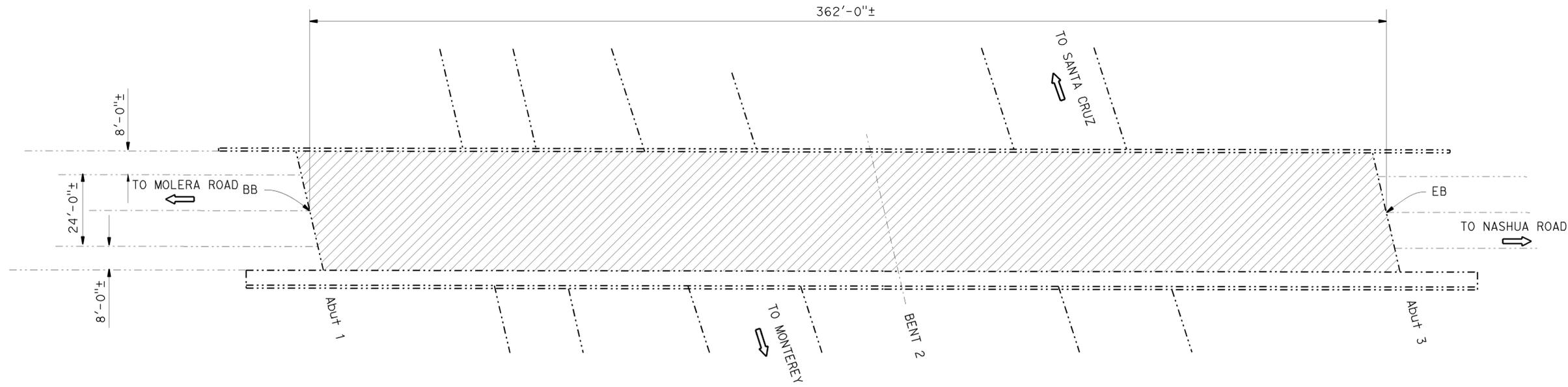
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SCR, SB+, Mon	1,25,68, 101,156,	Var	26	35

**Tim Campbell** 12-04-15  
 REGISTERED CIVIL ENGINEER DATE

2-1-16  
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REGISTERED PROFESSIONAL ENGINEER  
**TIM CAMPBELL**  
 No. 63268  
 Exp. 06-30-16  
 CIVIL  
 STATE OF CALIFORNIA



**MOLERA ROAD OVERCROSSING**

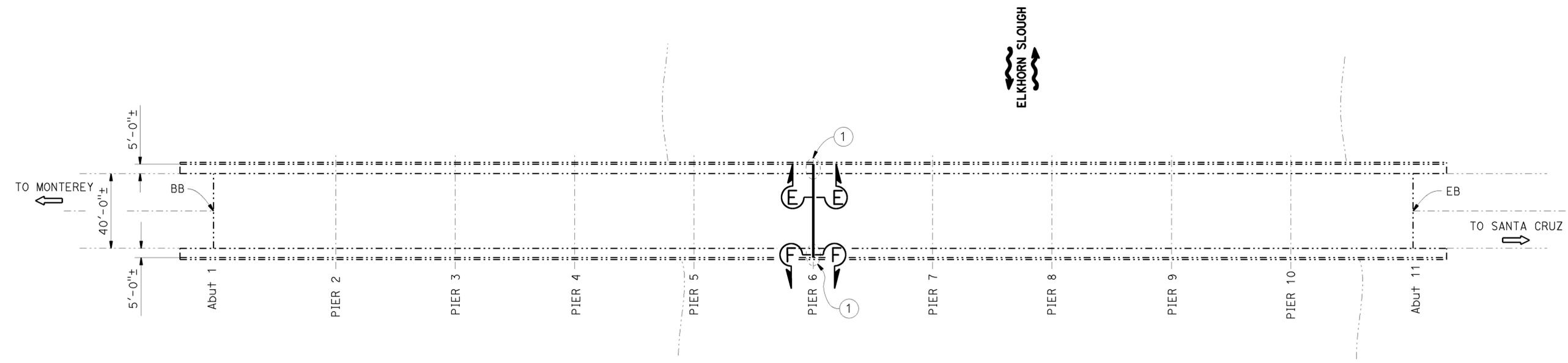
Br No. 44-0217, Mon, ROUTE 1, PM R90.39  
1"=20'

NOTES: (APPLY TO THIS SHEET ONLY)

- 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 NO. 1" and "JOINT SEAL DETAILS NO. 2" sheets.
- ① For joint seal details, see "JOINT SEAL AT SIDEWALK DETAIL NO. 2" on "JOINT SEAL DETAILS NO. 2" sheet.

QUANTITIES

MOLERA ROAD OVERCROSSING	BRIDGE NO. 44-0217
PREPARE CONCRETE BRIDGE DECK SURFACE	14,480 SQFT
TREAT BRIDGE DECK	14,480 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	160 GAL



NOTE: For section "E-E" and section "F-F" see "JOINT SEAL DETAILS NO. 5" sheet.

**ELKHORN SLOUGH**

Br No. 44-0074, Mon, ROUTE 1, PM 96.44  
1"=30'

QUANTITIES

ELKHORN SLOUGH	BRIDGE NO. 44-0074
BRIDGE REMOVAL (PORTION), LOCATION D	LUMP SUM
STRUCTURAL CONCRETE, BRIDGE	1.2 CY
CLEAN EXPANSION JOINT	52 LF
BONDED JOINT SEAL (MR 2 1/2")	52 LF
BAR REINFORCING STEEL (BRIDGE)	176 LB

12-04-15  
 DESIGN ENGINEER

DESIGN	BY TIM CAMPBELL	CHECKED PAT PIACENTINI	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY DAVID KISH	CHECKED PAT PIACENTINI	LAYOUT	BY DAVID KISH
QUANTITIES	BY TIM CAMPBELL	CHECKED PAT PIACENTINI	SPECIFICATIONS	BY CRAIG WHITTEN

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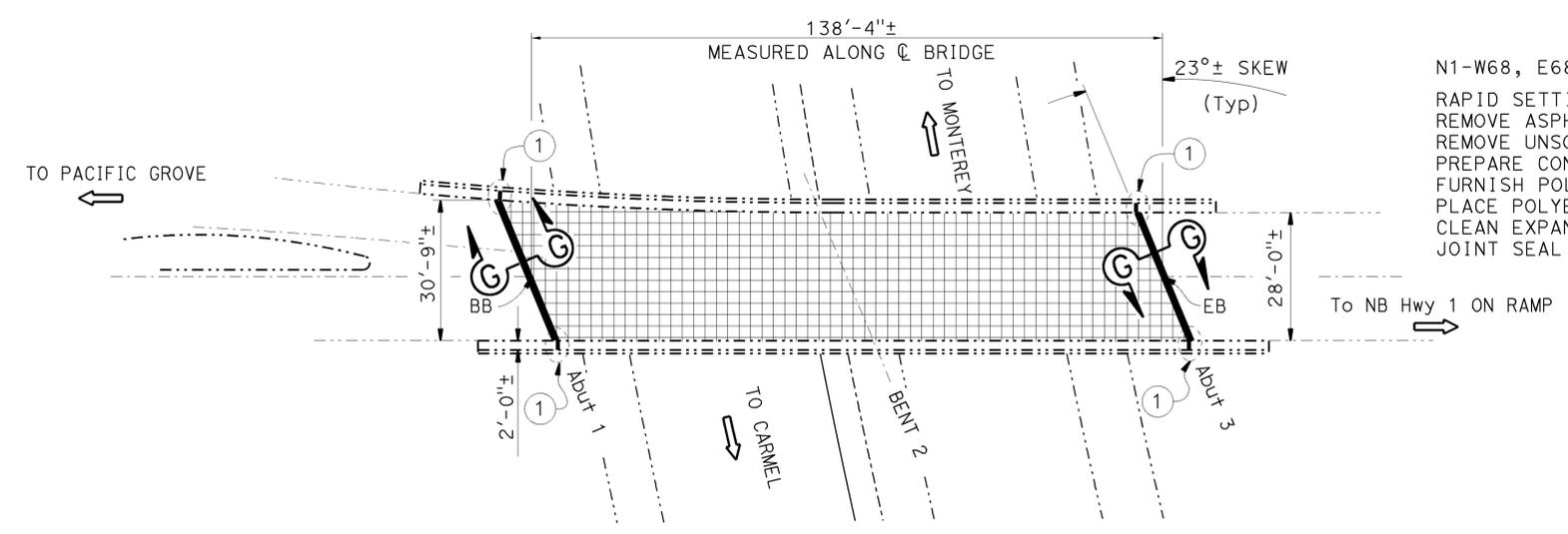
DIVISION OF MAINTENANCE  
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

**ROUTE 1, 25, 68, 101, & 156**  
**GENERAL PLAN NO. 6**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SCR, SB+, Mon	1,25,68, 101,156,	Var	27	35

12-04-15  
 REGISTERED CIVIL ENGINEER DATE  
 2-1-16  
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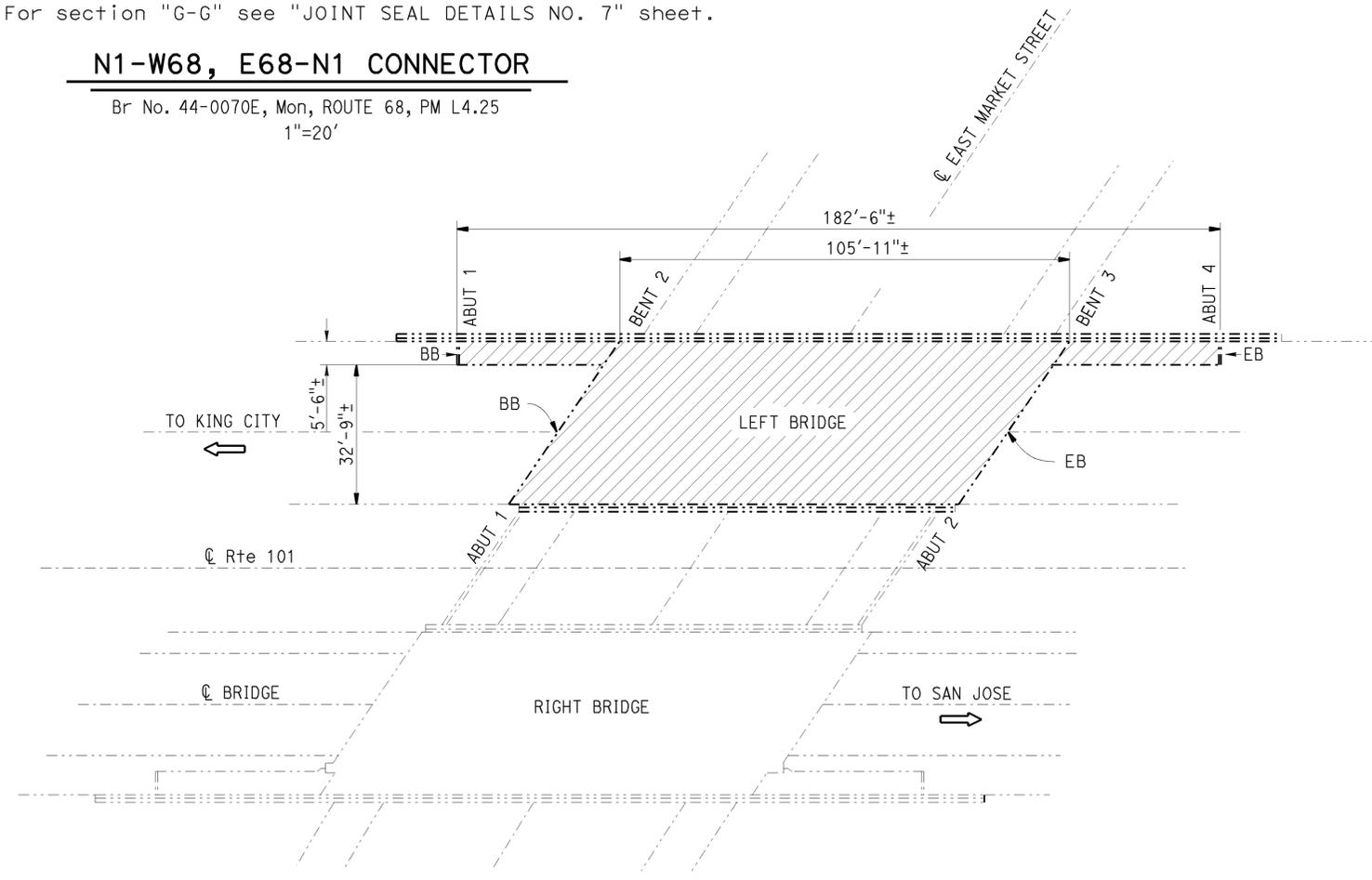
QUANTITIES

BRIDGE NO. 44-0070E

RAPID SETTING CONCRETE (PATCH)	102	CF
REMOVE ASPHALT CONCRETE SURFACING	4,064	SQFT
REMOVE UNSOUND CONCRETE	102	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	4,064	SQFT
FURNISH POLYESTER CONCRETE OVERLAY	813	CF
PLACE POLYESTER CONCRETE OVERLAY	4,064	SQFT
CLEAN EXPANSION JOINT	77	LF
JOINT SEAL (MR 1/2")	77	LF

NOTE: For section "G-G" see "JOINT SEAL DETAILS NO. 7" sheet.

**N1-W68, E68-N1 CONNECTOR**  
 Br No. 44-0070E, Mon, ROUTE 68, PM L4.25  
 1"=20'



QUANTITIES

BRIDGE NO. 44-0093L

EAST MARKET STREET UNDERCROSSING	LUMP SUM	
PUBLIC SAFETY PLAN	4,473	SQFT
PREPARE CONCRETE BRIDGE DECK SURFACE	4,473	SQFT
TREAT BRIDGE DECK	50	GAL
FURNISH BRIDGE DECK TREATMENT MATERIAL		

**EAST MARKET STREET UNDERCROSSING**  
 Br No. 44-0093L, Mon, ROUTE 101, PM 87.3  
 1"=20'



- NOTES: (APPLY TO THIS SHEET ONLY)
- Indicates limits of prepare concrete bridge deck surface and treat bridge deck with Methacrylate.
  - Indicates limits of remove existing 2"± depth AC overlay.
  - Indicates limits of prepare concrete bridge deck surface, furnish and place new 2" minimum depth polyester concrete overlay. Prior to placing new polyester concrete overlay, remove unsound concrete and patch with rapid setting concrete as shown on the "JOINT AND DECK REPAIR DETAIL" on "JOINT SEAL DETAILS NO. 1" sheet.
  - Indicates limits of remove asphaltic plug joints, clean expansion joint and install new joint seal. For details, see "JOINT SEAL DETAILS NO. 1" and "JOINT SEAL DETAILS NO. 2" sheets.
  - For joint seal details, see "JOINT SEAL AT SIDEWALK DETAIL NO. 3" on "JOINT SEAL DETAILS NO. 2" sheet.

12-04-15  
 DESIGN ENGINEER

DESIGN	BY TIM CAMPBELL	CHECKED PAT PIACENTINI	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY DAVID KISH	CHECKED PAT PIACENTINI	LAYOUT	BY DAVID KISH
QUANTITIES	BY TIM CAMPBELL	CHECKED PAT PIACENTINI	SPECIFICATIONS	BY CRAIG WHITTEN

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
 STRUCTURE MAINTENANCE DESIGN

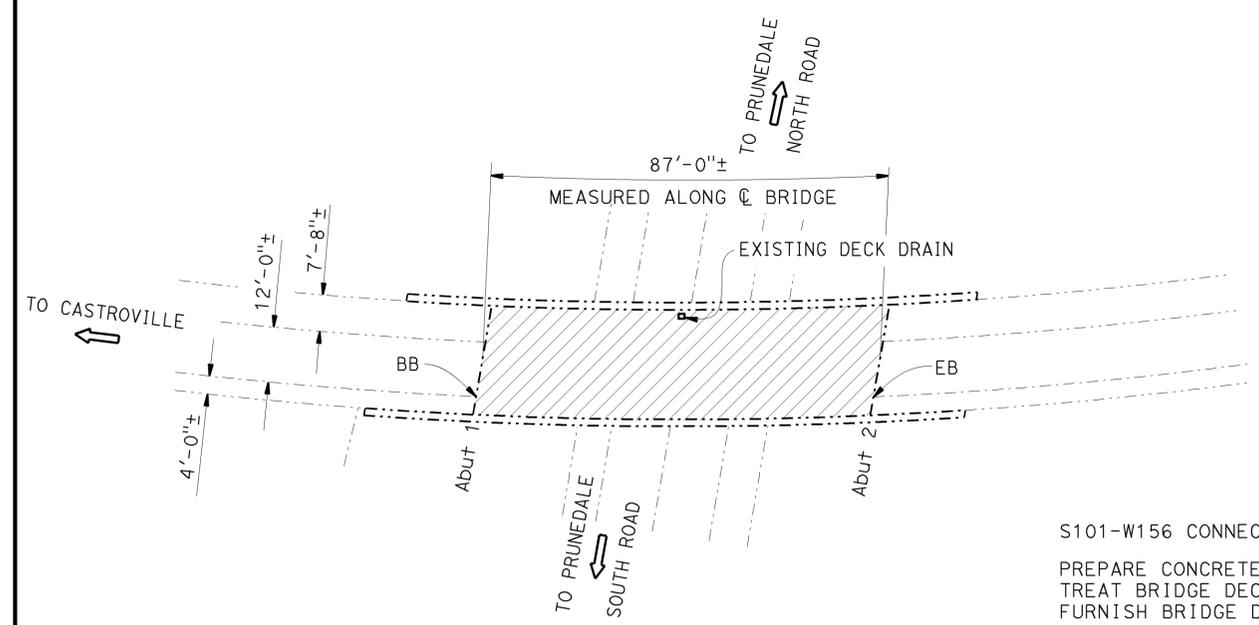
BRIDGE NO. VARIOUS  
 POST MILE VARIES  
**ROUTE 1, 25, 68, 101, & 156**  
**GENERAL PLAN NO. 7**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SCR, SB+, Mon	1,25,68, 101,156,	Var	28	35

12-04-15  
 REGISTERED CIVIL ENGINEER DATE  
 2-1-16  
 PLANS APPROVAL DATE  
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NOTES: (APPLY TO THIS SHEET ONLY)

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

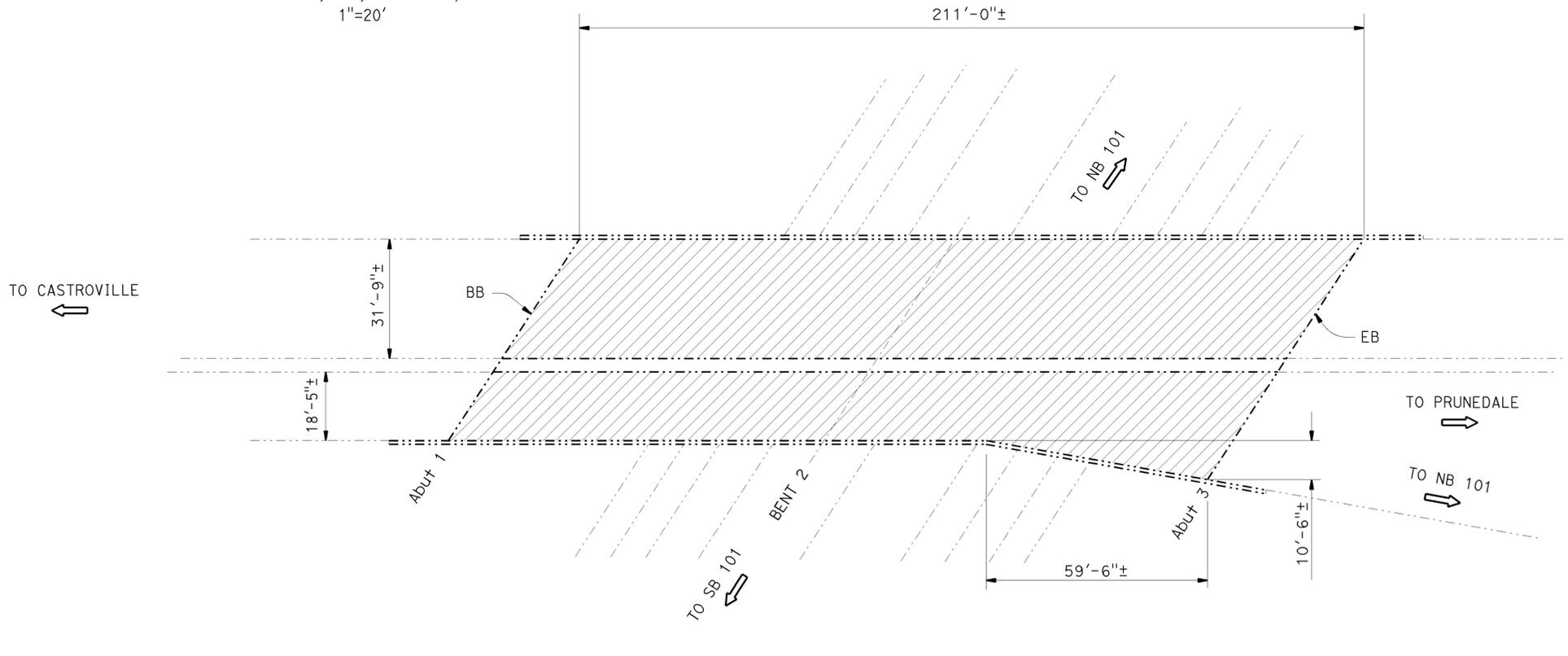


QUANTITIES

S101-W156 CONNECTOR UNDERCROSSING	BRIDGE NO. 44-0277F
PREPARE CONCRETE BRIDGE DECK SURFACE	2,059 SQFT
TREAT BRIDGE DECK	2,059 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	23 GAL

**S101-W156 CONNECTOR UNDERCROSSING**

Br No. 44-0277F, Mon, ROUTE 101, PM 95.35  
1"=20'



**ROUTE 156/101 SEPARATION**

Br No. 44-0107, Mon, ROUTE 156, PM T5.17  
1"=20'



QUANTITIES

ROUTE 156/101 SEPARATION	BRIDGE NO. 44-0107
PREPARE CONCRETE BRIDGE DECK SURFACE	10,898 SQFT
TREAT BRIDGE DECK	10,898 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	121 GAL

  
 12-04-15  
 DESIGN ENGINEER

DESIGN	BY TIM CAMPBELL	CHECKED PAT PIACENTINI	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY DAVID KISH	CHECKED PAT PIACENTINI	LAYOUT	BY DAVID KISH
QUANTITIES	BY TIM CAMPBELL	CHECKED PAT PIACENTINI	SPECIFICATIONS	BY CRAIG WHITTEN

STATE OF CALIFORNIA  
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DIVISION OF MAINTENANCE  
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS  
 POST MILE VARIES  
**ROUTE 1, 25, 68, 101, & 156**  
**GENERAL PLAN NO. 8**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SCR, SB+, Mon	1,25,68, 101,156,	Var	29	35

12-04-15  
 REGISTERED CIVIL ENGINEER DATE  
 2-1-16  
 PLANS APPROVAL DATE  
 No. 63268  
 Exp. 06-30-16  
 CIVIL  
 STATE OF CALIFORNIA  
 REGISTERED PROFESSIONAL ENGINEER  
 TIM CAMPBELL  
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### JOINT SEAL TABLE

BRIDGE NAME	BRIDGE NUMBER	LOCATION	MINIMUM "MR" (INCHES)	APPROXIMATE LENGTH (FEET)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXP JOINT (INCHES)	
WEST WATSONVILLE OVERHEAD	36-0083R	Abut 1	BW	1 1/2	40	NO	14
		BENT 2 *	EJ	1	40	YES	40
		BENT 5 *	EJ	1	40	YES	40
	36-0083L	Abut 6 *	BW	1	40	NO	14
		Abut 1 *	BW	1	40	NO	14
		BENT 2	EJ	1 1/2	40	YES	40
WATSONVILLE SLOUGH	36-0090R	BENT 5	EJ	1 1/2	40	YES	40
		Abut 6	BW	1 1/2	40	NO	14
		Abut 1 *	BB	1	40	NO	12
	36-0090L	Abut 5 *	EB	1	40	NO	12
		Abut 1 *	BB	1	40	NO	12
		Abut 5 *	EB	1	40	NO	12
S1-E152 CONNECTOR OVERCROSSING	36-0084F	Abut 1	BW	1 1/2	34	YES	6
		Abut 5	BW	1 1/2	34	YES	14
EMELINE STREET UNDERCROSSING	36-0105	Abut 1	BB	1 1/2	136	NO	12
		Abut 2	EB	1 1/2	138	NO	12
ELKHORN SLOUGH	44-0074	Bent 6 **	EJ	2 1/2	52	NO	12
N1-W68, E68-N1 CONNECTOR	44-0070E	Abut 1	BW	1/2	40	NO	51
		Abut 3	BW	1/2	37	NO	51

- 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)

### GENERAL NOTES LOAD FACTOR DESIGN

(BRIDGE NUMBERS: 36-0083R/L, 36-0090R/L, 36-0084F, 44-0074)

DESIGN: BRIDGE DESIGN SPECIFICATIONS (1996 AASHTO with Interims and Revisions by CALTRANS)

LIVE LOADING: HS20-44 and alternative and permit design load.

REINFORCED CONCRETE:  $f_y = 60,000$  psi  
 $f'_c = 3,600$  psi  
 $n = 8$

### TEMPORARY DECK PLATE LOAD CRITERIA

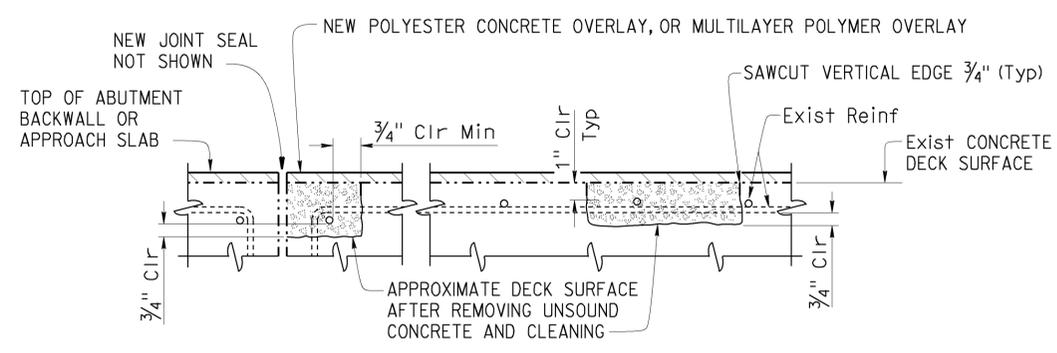
MOMENT DEMAND/FOOT (KIP-FT/FT)	BOLT SHEAR/FOOT (KIP/FT)	BOLT TENSION (KIP)
7	8	6

Notes:  
 Plate thickness shall be  $\geq 7/8"$   
 Plate deflection shall not be greater than  $S/300$  (S = Span in feet)  
 Maximum spacing of anchorages is 9"

- LEGEND:**
- BW - Abutment backwall joint
  - BB - Paving Notch at beginning of bridge
  - EB - Paving Notch at end of bridge
  - EJ - EXPANSION JOINT
  - \* - Use Type B Joint Seal
  - \*\* - Use Bonded Joint Seal

DECK REPAIR TABLE REMOVE UNSOUND CONCRETE AND RAPID SETTING CONCRETE (PATCH)			
BRIDGE NAME	BRIDGE NUMBER	APPROXIMATE AREA DAMAGED (PERCENT)	APPROXIMATE DEPTH (INCHES)
SAN BENITO RIVER	43-0044	5	3
N1-W68, E68-N1 CONNECTOR	44-0070E	10	3

Locations to be determined by the Engineer.  
 For details see "Joint And Deck Repair Detail".



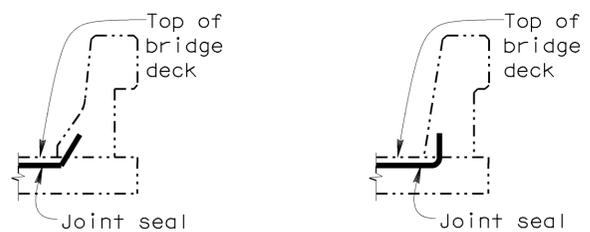
### JOINT AND DECK REPAIR DETAIL

Note: Locations to be determined by the Engineer.  
 Reinforcement may be encountered during deck concrete removal.

DESIGN	BY TIM CAMPBELL	CHECKED PAT PIACENTINI	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	<b>ROUTE 1, 25, 68, 101, &amp; 156</b> <b>JOINT SEAL DETAILS NO. 1</b>
DETAILS	BY DAVID KISH	CHECKED PAT PIACENTINI			VARIOUS	
QUANTITIES	BY TIM CAMPBELL	CHECKED PAT PIACENTINI			VARIES	

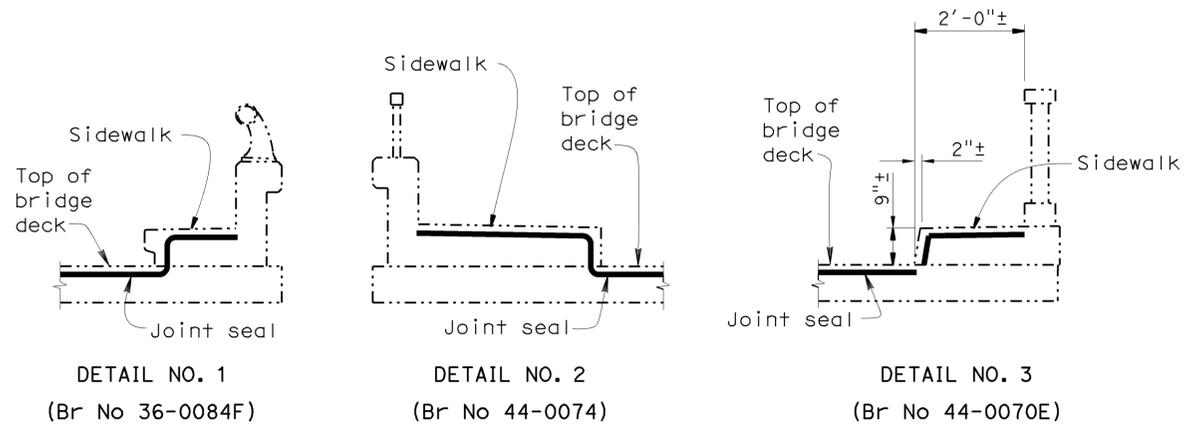
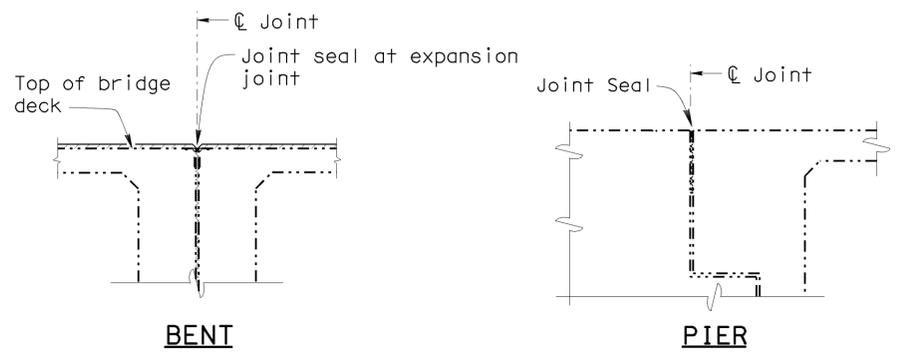
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SCR, SB+, Mon	1,25,68, 101,156,	Var	30	35

Tim Campbell 12-04-15  
 REGISTERED CIVIL ENGINEER DATE  
 2-1-16  
 PLANS APPROVAL DATE  
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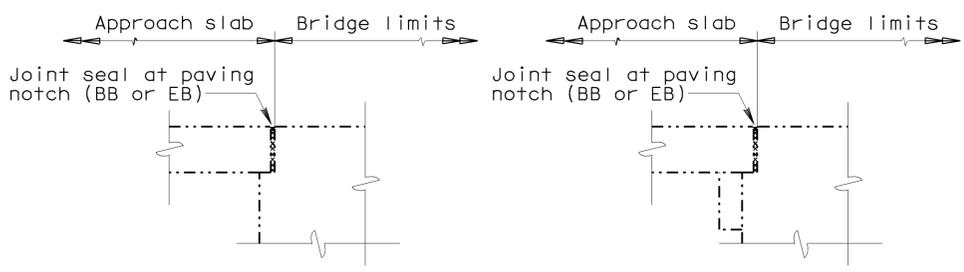


**BARRIER RAIL**  
**JOINT SEAL AT LOW SIDE OF DECK**

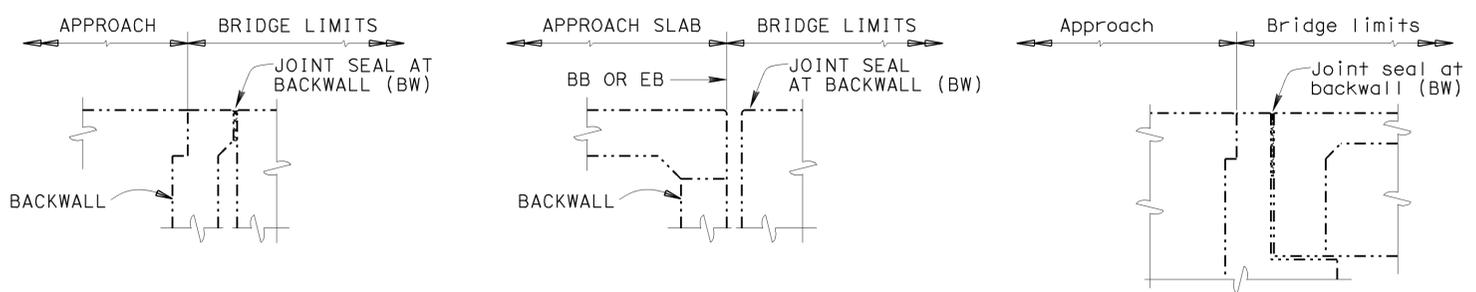
Notes: Details shown for illustration purposes only. For use only where deck joint matches the sidewalk, curb or barrier rail joint.



**JOINT SEAL AT SIDEWALK DETAILS**



**DIAPHRAGM ABUTMENT**



**ABUTMENT WITH BACKWALL**

**JOINT SEAL LOCATION**

DESIGN	BY TIM CAMPBELL	CHECKED PAT PIACENTINI
DETAILS	BY DAVID KISH	CHECKED PAT PIACENTINI
QUANTITIES	BY TIM CAMPBELL	CHECKED PAT PIACENTINI

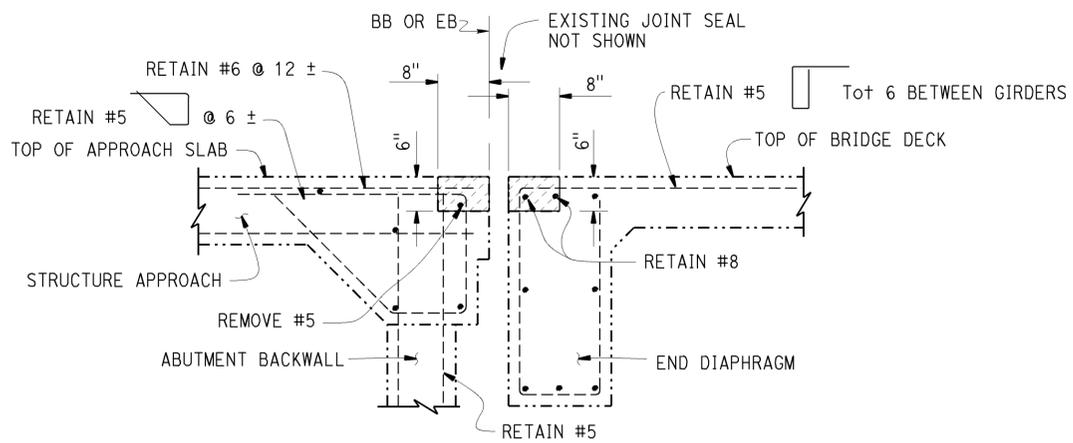
STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
 STRUCTURE MAINTENANCE DESIGN

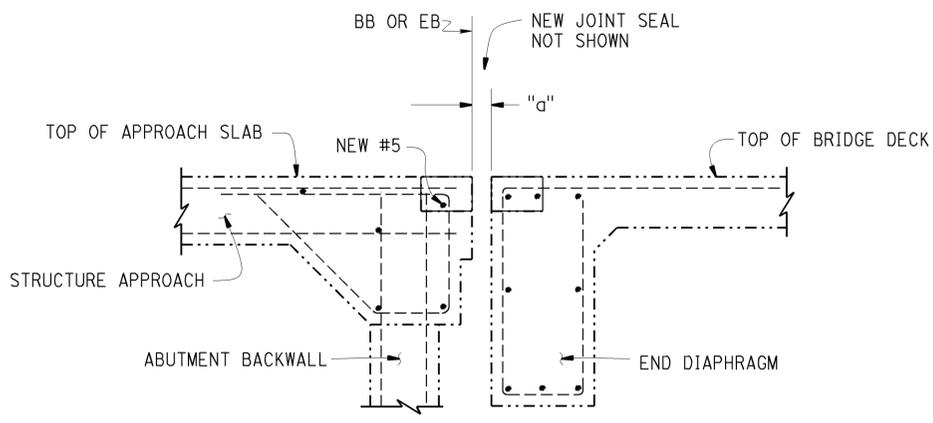
BRIDGE NO.	VARIOUS
POST MILE	VARIES

ROUTE 1, 25, 68, 101, & 156  
 JOINT SEAL DETAILS NO. 2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SCR, SB+, Mon	1,25,68, 101,156,	Var	31	35
 REGISTERED CIVIL ENGINEER DATE 12-04-15					
PLANS APPROVAL DATE 2-1-16					
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EXISTING



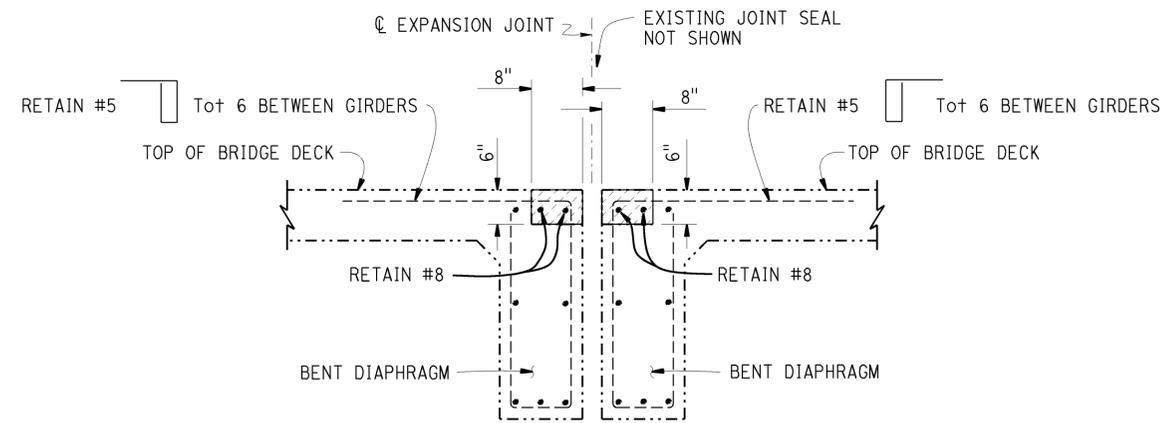
RECONSTRUCTION

**SECTION A-A**  
 $\frac{3}{4}'' = 1'-0''$   
 (Br. No. 36-0083R/L)

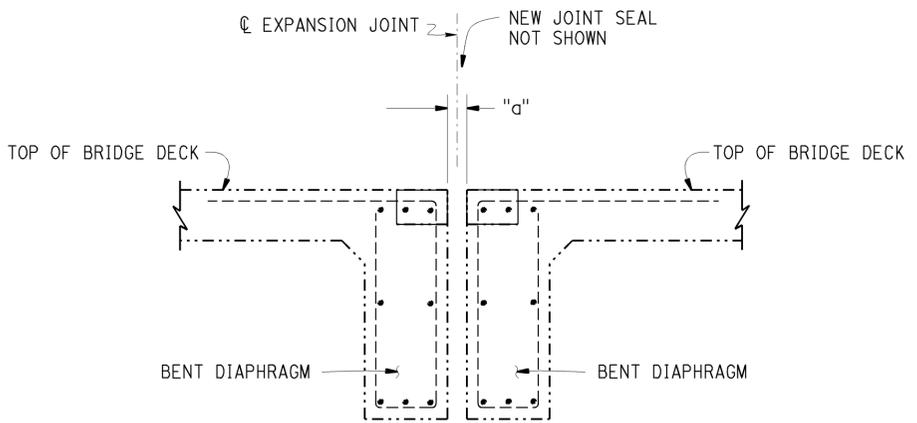
NOTES: (APPLY TO THIS SHEET ONLY)

 Indicates limits of bridge removal (portion) and place structural concrete, bridge. Retain existing reinforcing steel as noted.

"d" Reconstruct gap width as determined by the Engineer.



EXISTING



RECONSTRUCTION

**SECTION B-B**  
 $\frac{3}{4}'' = 1'-0''$   
 (Br. No. 36-0083R)

DESIGN	BY TIM CAMPBELL	CHECKED PAT PIACENTINI
DETAILS	BY DAVID KISH	CHECKED PAT PIACENTINI
QUANTITIES	BY TIM CAMPBELL	CHECKED PAT PIACENTINI

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

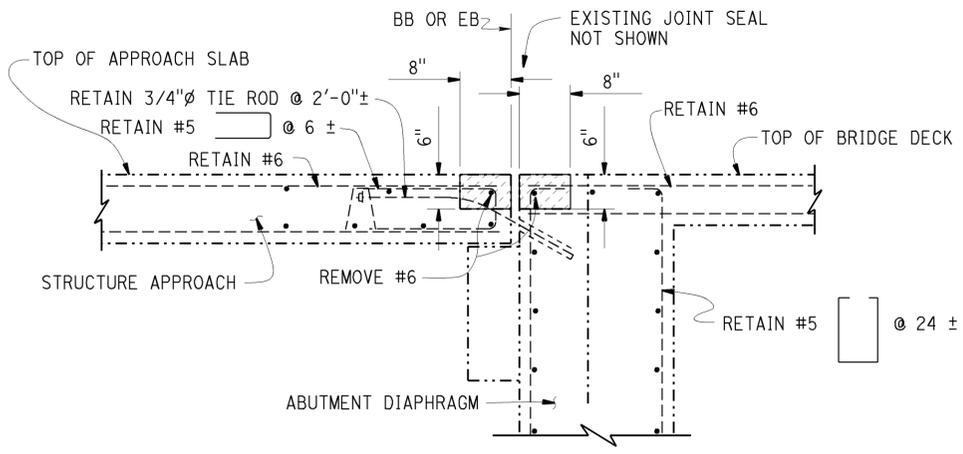
DIVISION OF MAINTENANCE  
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

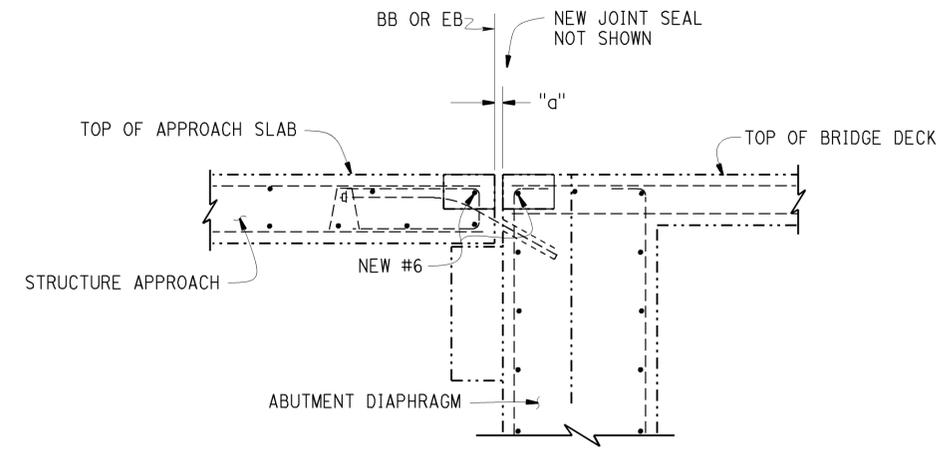
**ROUTE 1, 25, 68, 101, & 156**  
**JOINT SEAL DETAILS NO. 3**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SCR, SB+, Mon	1,25,68, 101,156,	Var	32	35

Tim Campbell 12-04-15  
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 2-1-16  
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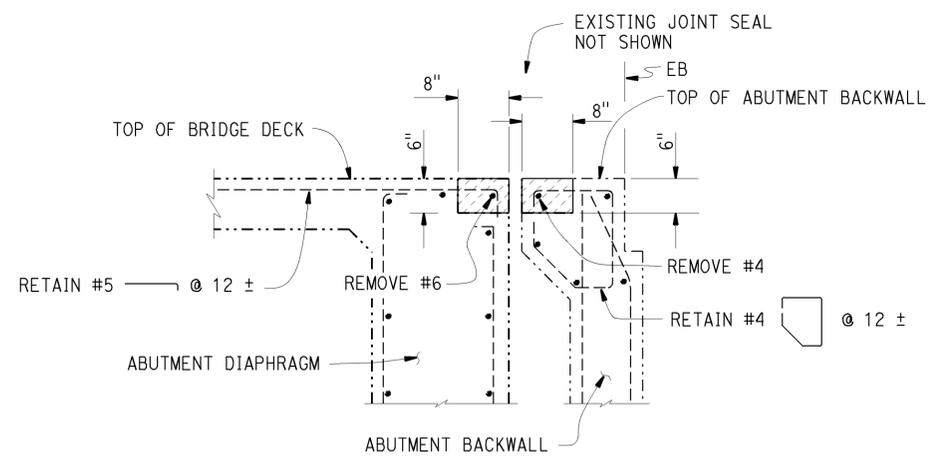
EXISTING



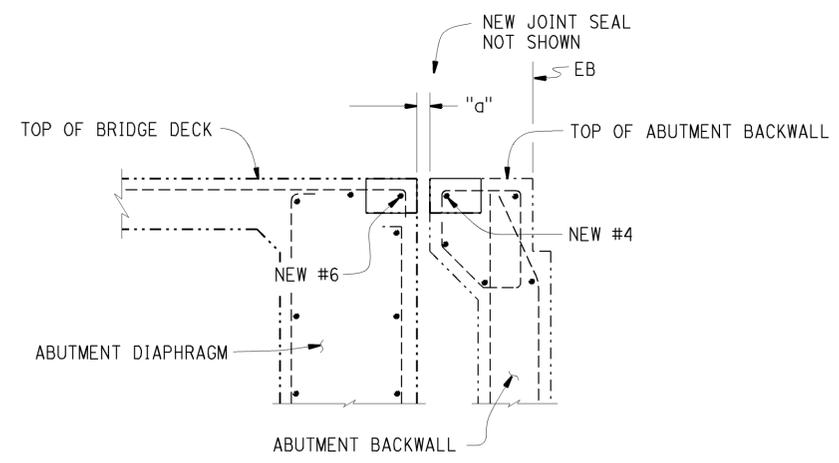
RECONSTRUCTION

**SECTION C-C**  
 $\frac{3}{4}'' = 1'-0''$   
 (Br. No. 36-0090R/L)

- NOTES: (APPLY TO THIS SHEET ONLY)
- Indicates limits of bridge removal (portion) and place structural concrete, bridge. Retain existing reinforcing steel as noted.
  - "a" Reconstruct gap width as determined by the Engineer.



EXISTING



RECONSTRUCTION

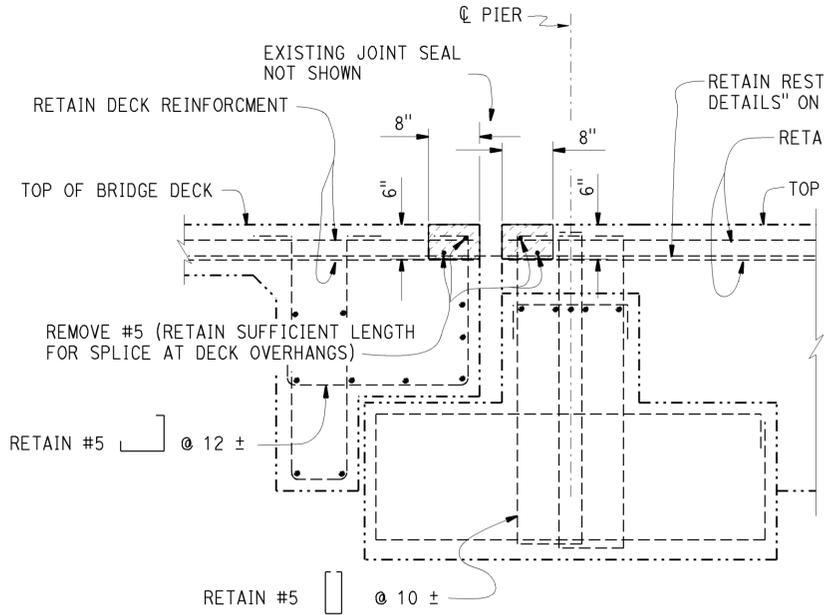
**SECTION D-D**  
 $\frac{3}{4}'' = 1'-0''$   
 (Br. No. 36-0084F)

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY TIM CAMPBELL	CHECKED PAT PIACENTINI	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	ROUTE 1, 25, 68, 101, & 156
	DETAILS	BY DAVID KISH	CHECKED PAT PIACENTINI		VARIOUS	
	QUANTITIES	BY TIM CAMPBELL	CHECKED PAT PIACENTINI		VARIES	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				UNIT:3488 PROJECT NUMBER & PHASE:0514000142	CONTRACT NO.:05-1G3301	DISREGARD PRINTS BEARING EARLIER REVISION DATES
				0 1 2 3	REVISION DATES	SHEET 12 OF 15

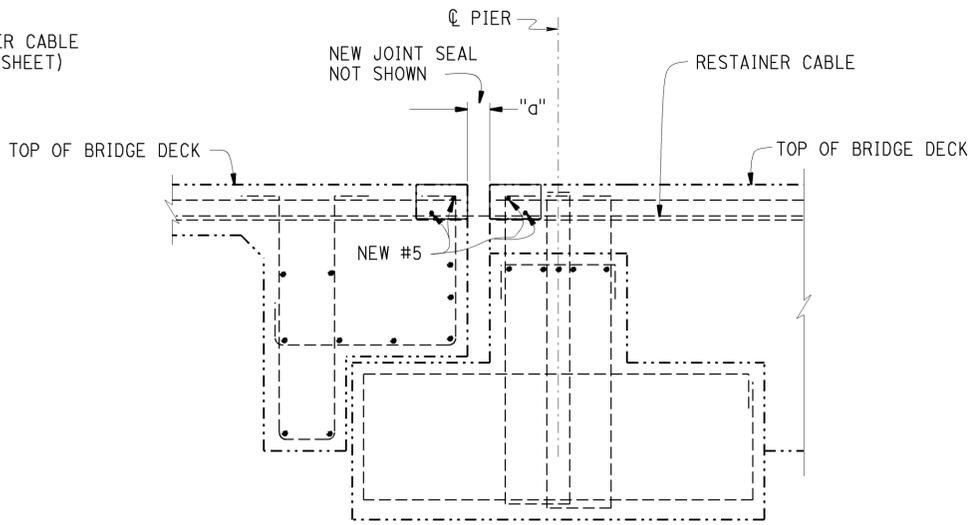
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 USERNAME => s115755 DATE PLOTTED => 28-JAN-2016 TIME PLOTTED => 14:09

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SCR, SB+, Mon	1,25,68, 101,156,	Var	33	35

Tim Campbell 12-04-15  
 REGISTERED CIVIL ENGINEER DATE  
 2-1-16  
 PLANS APPROVAL DATE  
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**EXISTING**



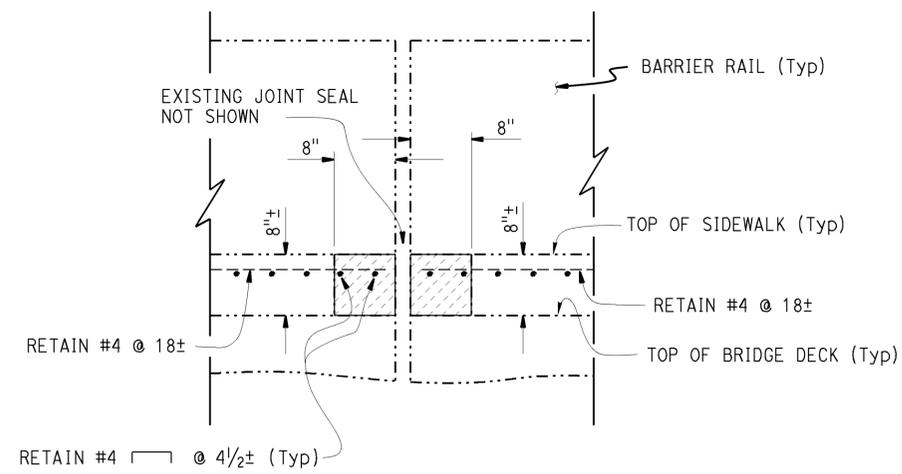
**RECONSTRUCTION**

NOTE: For Limits of "SECTION E-E" see "TYPICAL JOINT AND SIDEWALK REBUILD DETAIL" on "JOINT SEAL DETAILS NO.6" sheet.

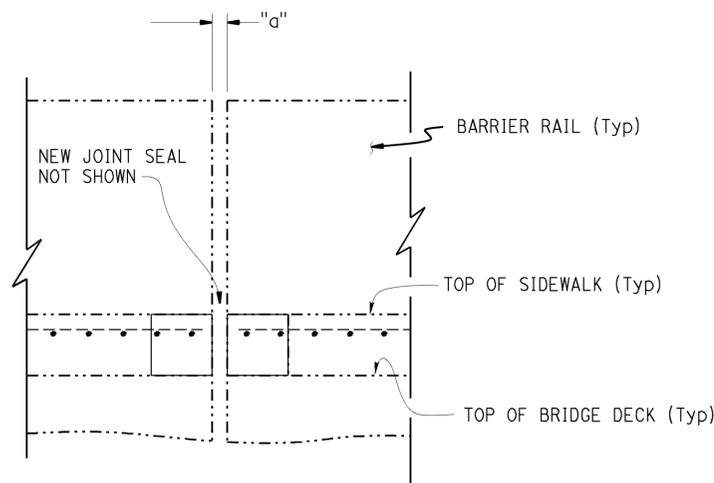
**SECTION E-E**

3/4" = 1'-0"  
(Br. No. 44-0074)

- NOTES: (APPLY TO THIS SHEET ONLY)
- Indicates limits of bridge removal (portion) and place structural concrete, bridge. Retain existing reinforcing steel as noted.
  - "d" Reconstruct gap width as determined by the Engineer.



**EXISTING**



**RECONSTRUCTION**

NOTE: For Limits of "SECTION F-F" see "TYPICAL JOINT AND SIDEWALK REBUILD DETAIL" on "JOINT SEAL DETAILS NO.6" sheet.

**SECTION F-F**

1" = 1'-0"  
(Br. No. 44-0074)

DESIGN	BY TIM CAMPBELL	CHECKED PAT PIACENTINI
DETAILS	BY DAVID KISH	CHECKED PAT PIACENTINI
QUANTITIES	BY TIM CAMPBELL	CHECKED PAT PIACENTINI

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

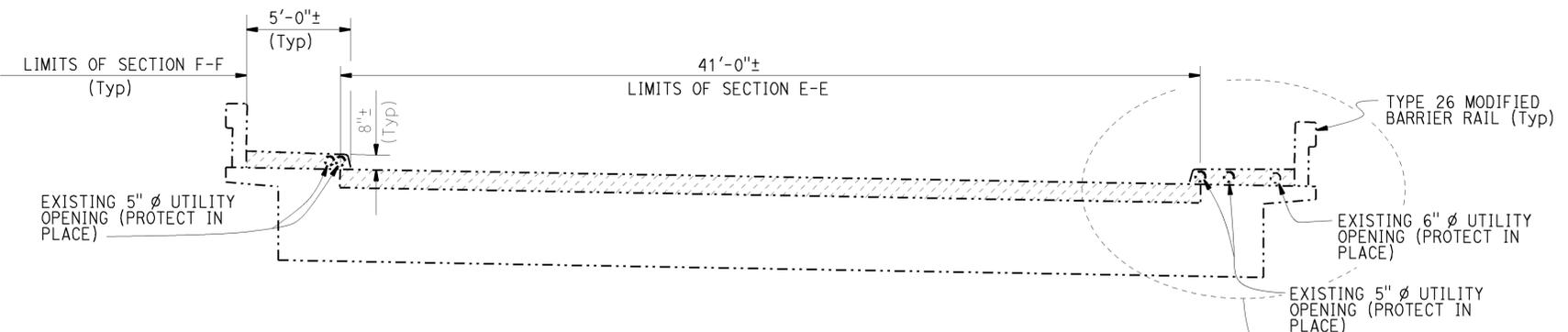
ROUTE 1, 25, 68, 101, & 156  
JOINT SEAL DETAILS NO. 5

NOTES: (APPLY TO THIS SHEET ONLY)

 Indicates limits of bridge removal (portion) and place structural concrete, bridge.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SCR, SB+, Mon	1,25,68, 101,156,	Var	34	35

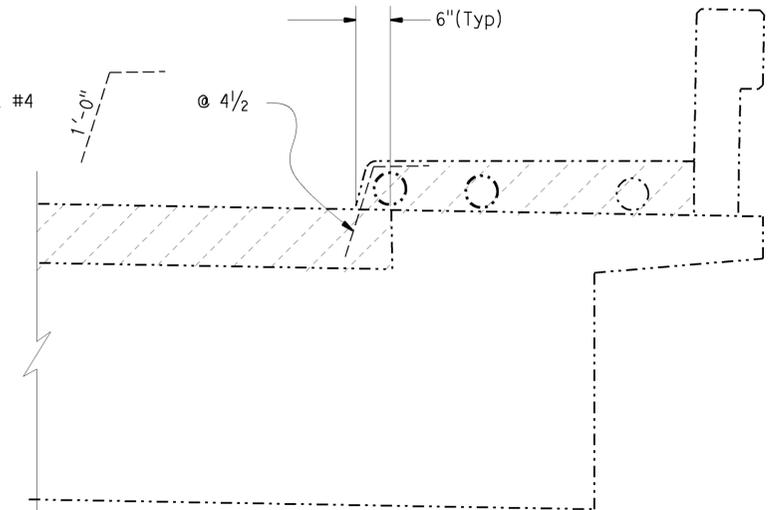
**Tim Campbell** 12-04-15  
 REGISTERED CIVIL ENGINEER DATE  
 2-1-16  
 PLANS APPROVAL DATE  
 REGISTERED PROFESSIONAL ENGINEER  
 TIM CAMPBELL  
 No. 63268  
 Exp. 06-30-16  
 CIVIL  
 STATE OF CALIFORNIA  
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**TYPICAL JOINT AND SIDEWALK REBUILD DETAIL**

1/4" = 1'-0"  
(Br. No. 44-0074)

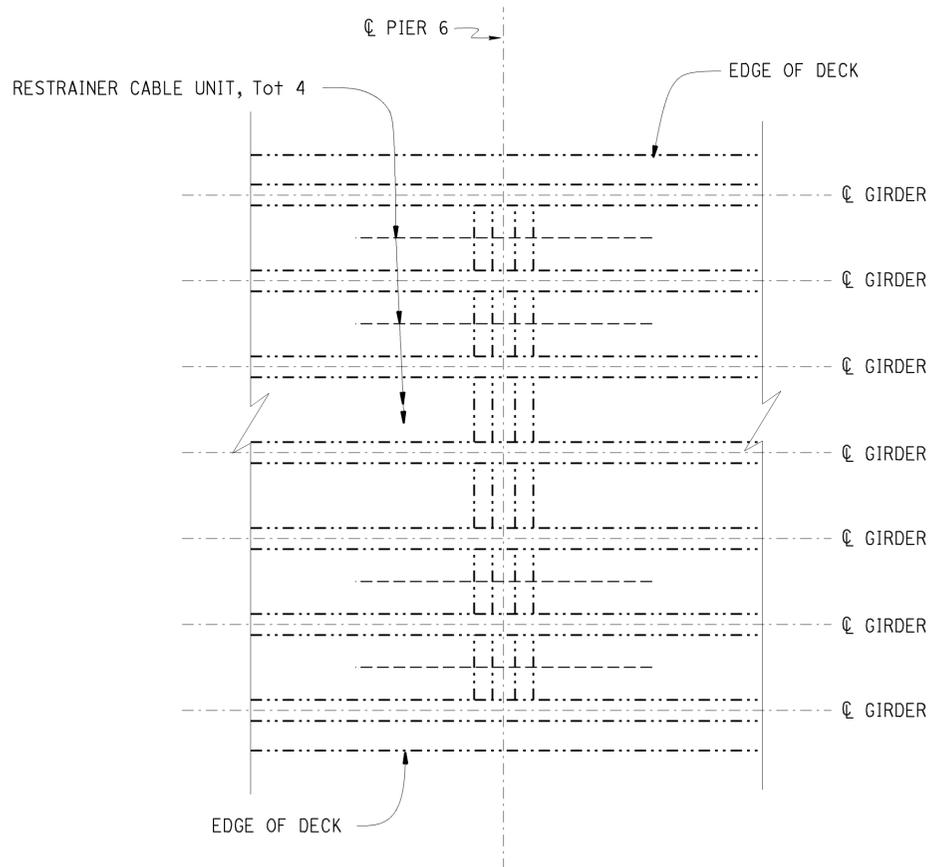
REMOVE AND REPLACE #4



NOTES: - Right side shown left side similar  
 - For reinforcement not shown see "SECTION E-E" and "SECTION F-F" on "JOINT SEAL DETAILS NO. 5" sheet

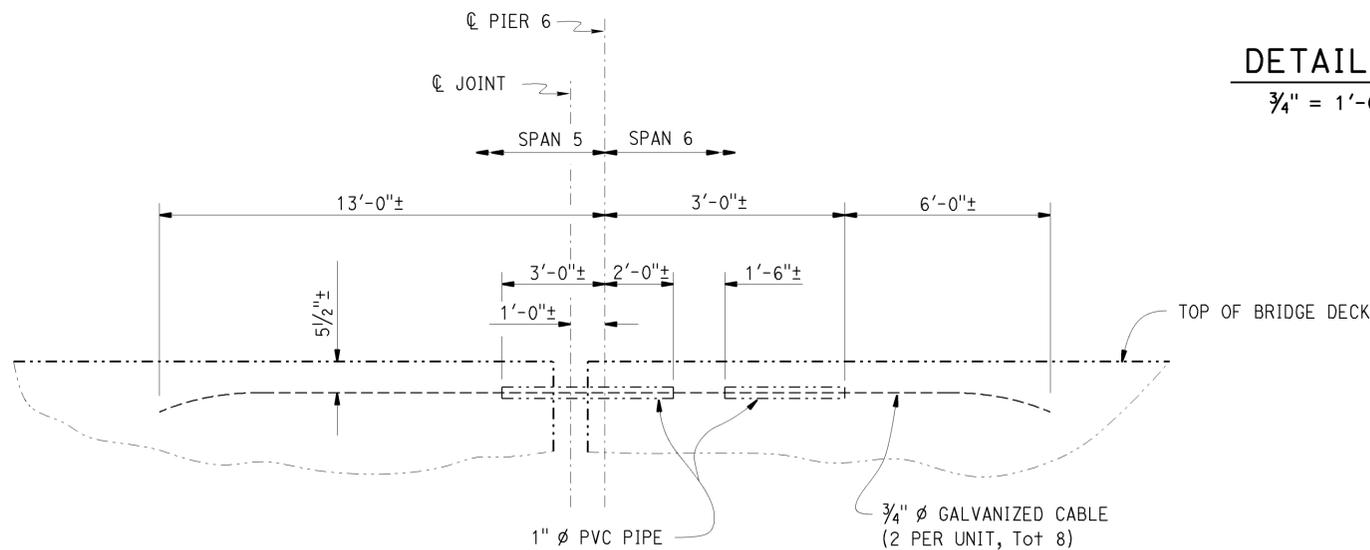
**DETAIL A**

3/4" = 1'-0"



**PART PLAN (RESTRAINER CABLE UNIT) LAYOUT**

1/8" = 1'-0"



**ELEVATION (RESTRAINER CABLE UNIT)**

3/8" = 1'-0"

**RESTRAINER CABLE DETAILS**

(Br. No. 44-0074)

DESIGN	BY TIM CAMPBELL	CHECKED PAT PIACENTINI
DETAILS	BY DAVID KISH	CHECKED PAT PIACENTINI
QUANTITIES	BY TIM CAMPBELL	CHECKED PAT PIACENTINI

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

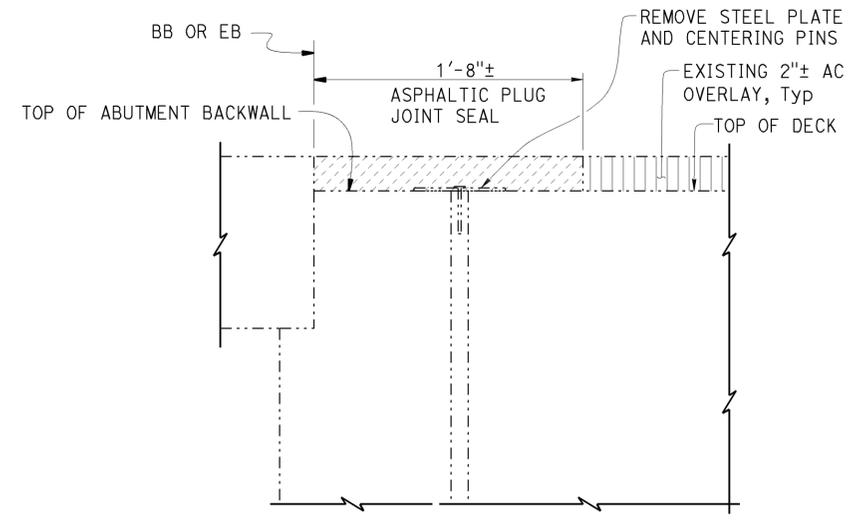
DIVISION OF MAINTENANCE  
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS  
 POST MILE VARIES

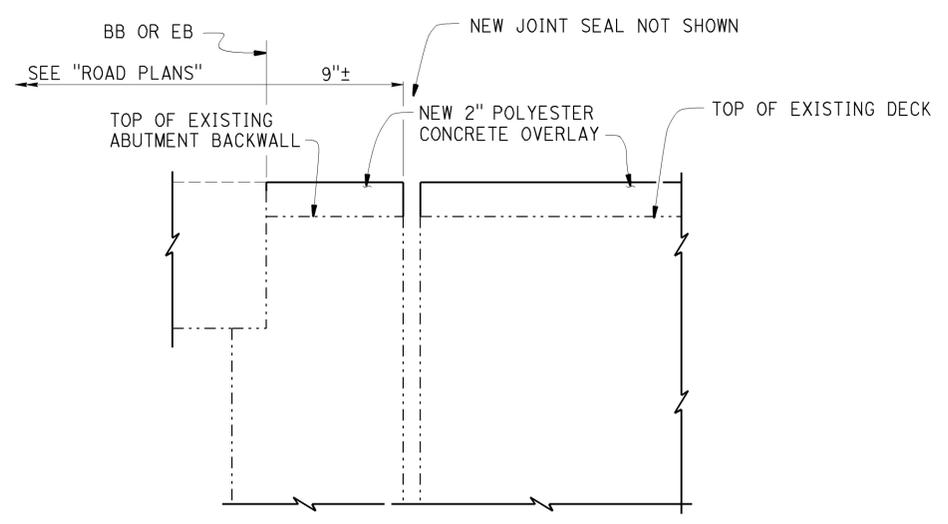
**ROUTE 1, 25, 68, 101, & 156**  
**JOINT SEAL DETAILS NO. 6**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SCR, SB+, Mon	1,25,68, 101,156,	Var	35	35

Tim Campbell 12-04-15  
 REGISTERED CIVIL ENGINEER DATE  
 2-1-16  
 PLANS APPROVAL DATE  
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EXISTING



RECONSTRUCTION

**SECTION G-G**  
 1/2" = 1'-0"  
 (Br. No. 44-0070E)

NOTES: (APPLY TO THIS SHEET ONLY)

Indicates remove existing asphaltic plug joint seal.

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY TIM CAMPBELL	CHECKED PAT PIACENTINI	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE <b>STRUCTURE MAINTENANCE DESIGN</b>	BRIDGE NO.	<b>ROUTE 1, 25, 68, 101, &amp; 156</b> <b>JOINT SEAL DETAILS NO. 7</b>
	DETAILS	BY DAVID KISH	CHECKED PAT PIACENTINI			VARIOUS	
	QUANTITIES	BY TIM CAMPBELL	CHECKED PAT PIACENTINI			VARIES	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3	UNIT: 3488	CONTRACT NO.: 05-1G3301	DISREGARD PRINTS BEARING EARLIER REVISION DATES
					PROJECT NUMBER & PHASE: 0514000142	REVISION DATES	SHEET 15 OF 15

FILE => 05-1g3301\_15jtdet07.agn

USERNAME => s115755 DATE PLOTTED => 28-JAN-2016 TIME PLOTTED => 14:09