

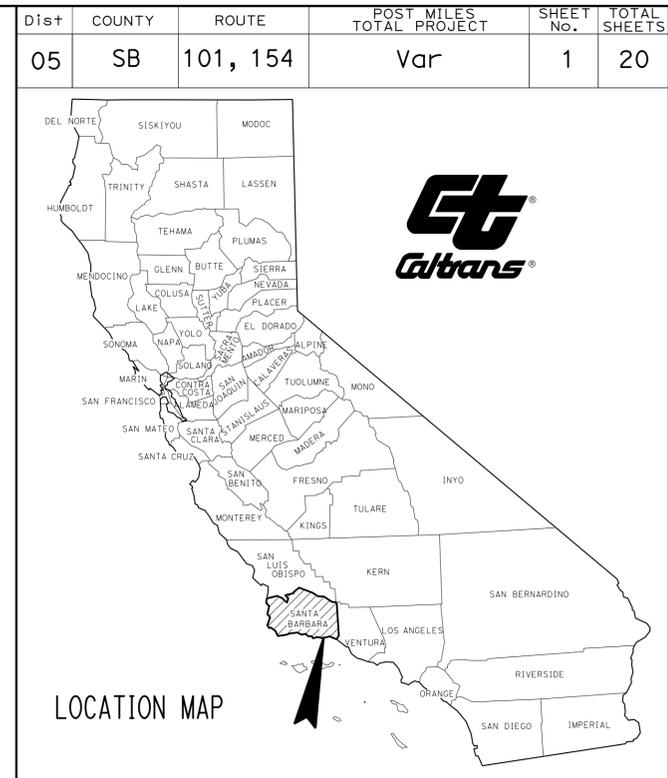
INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	CONSTRUCTION DETAILS AND SUMMARY OF QUANTITIES
3-4	CONSTRUCTION AREA SIGNS
5-6	PAVEMENT DELINEATION QUANTITIES
7-14	REVISED STANDARD PLANS
STRUCTURE PLANS	
15-20	GENERAL PLAN ROUTE 101 AND 154 BRIDGES

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

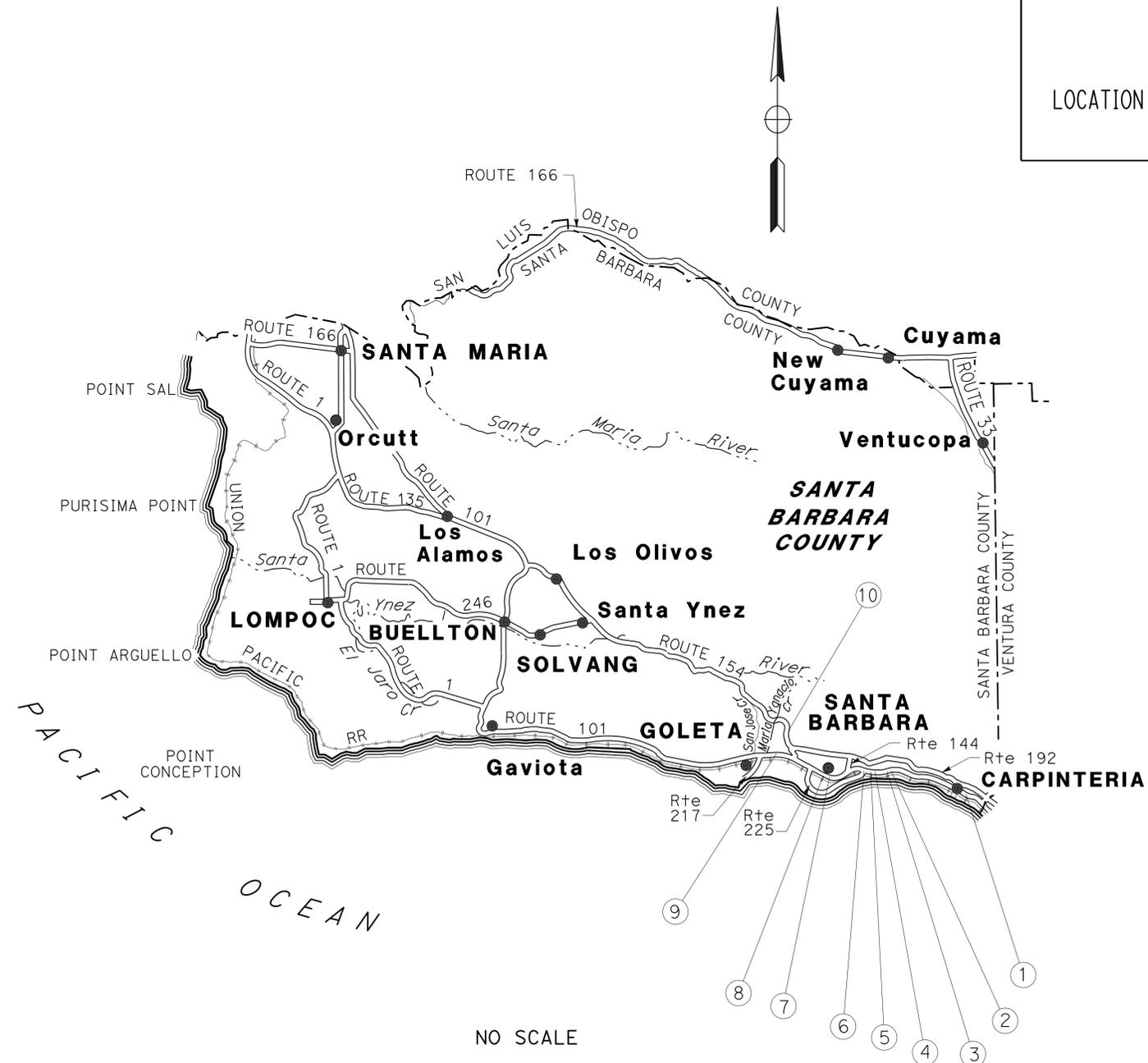
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN SANTA BARBARA COUNTY
AT VARIOUS LOCATIONS

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010



LOCATIONS OF CONSTRUCTION

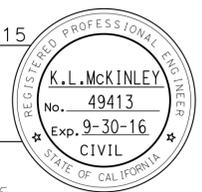
Loc	Co	ROUTE	PM	BRIDGE NAME	BRIDGE No.
①	SB	101	1.62	BAILARD Ave OC	51-0224
②	SB	101	R7.13	PADARO LANE OC	51-0227
③	SB	101	R8.26	EVANS Ave UC	51-0226L
④	SB	101	10.02	SAN YSIDRO ROAD OC	51-0185
⑤	SB	101	10.49	OLIVE MILL ROAD ON-RAMP Sep	51-0186K
⑥	SB	101	11.43	CABRILLO Blvd UC	51-0086L
⑦	SB	101	R15.26	MICHELTORENA St VIADUCT	51-0327
⑧	SB	101	R15.73	MISSION St UC	51-0210L
⑧	SB	101	R15.73	MISSION St UC	51-0210R
⑨	SB	101	20.95	MARIA YGNACIO CREEK	51-0162L
⑩	SB	154	30.21	SAN ANTONIO CREEK	51-0084



PROJECT MANAGER
KELLY J. McCLAIN

DESIGN MANAGER
KELLY J. McCLAIN

K.L. McKinley 2-17-15
 PROJECT ENGINEER DATE
 REGISTERED CIVIL ENGINEER



February 17, 2015
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

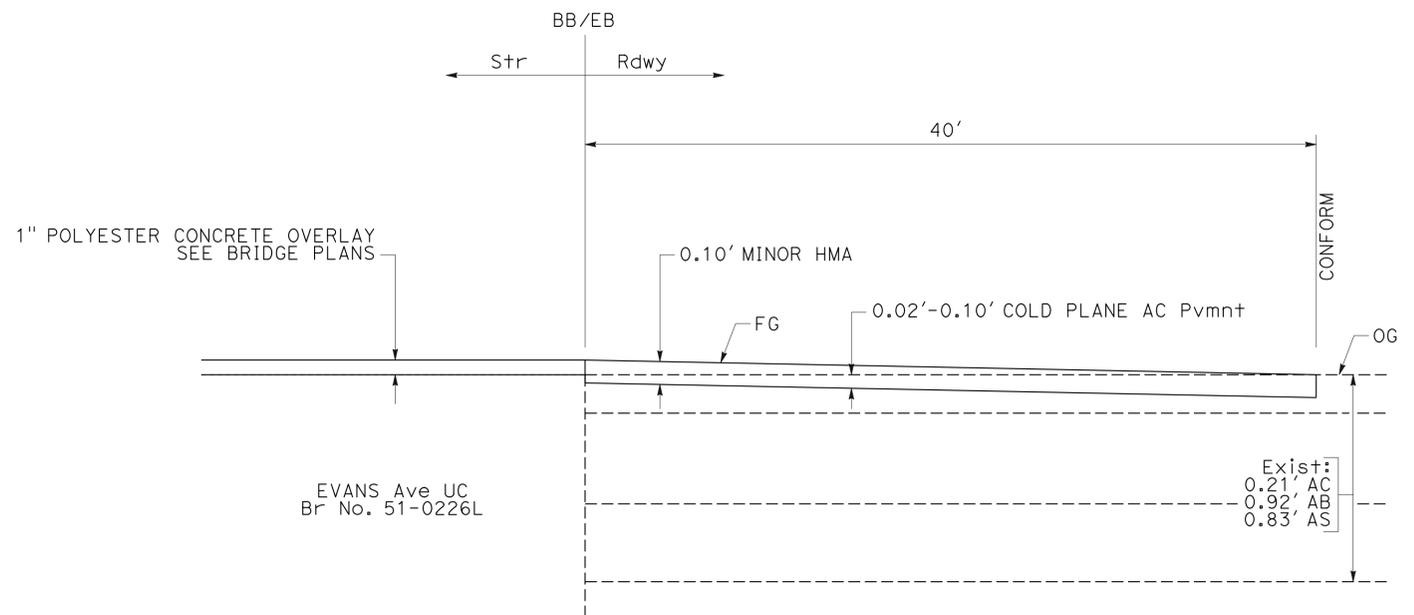
CONTRACT No.	05-1F3904
PROJECT ID	0513000137

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101,154	Var	2	20
			2-17-15 REGISTERED CIVIL ENGINEER DATE 2-17-15 PLANS APPROVAL DATE		
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

NOTES:

1. LIMITS OF COLD PLANE AC PAVEMENT AND MINOR HMA CONFORM TAPER.
2. PCC CONFORM TAPER. SEE BRIDGE PLANS.
3. EXISTING UTILITIES ARE NOT SHOWN ON THIS PLAN.

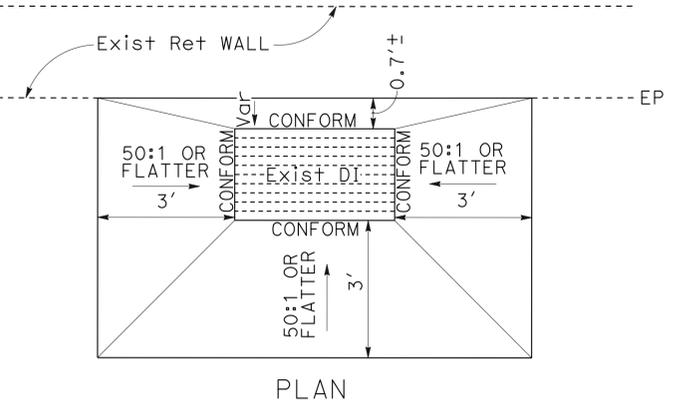
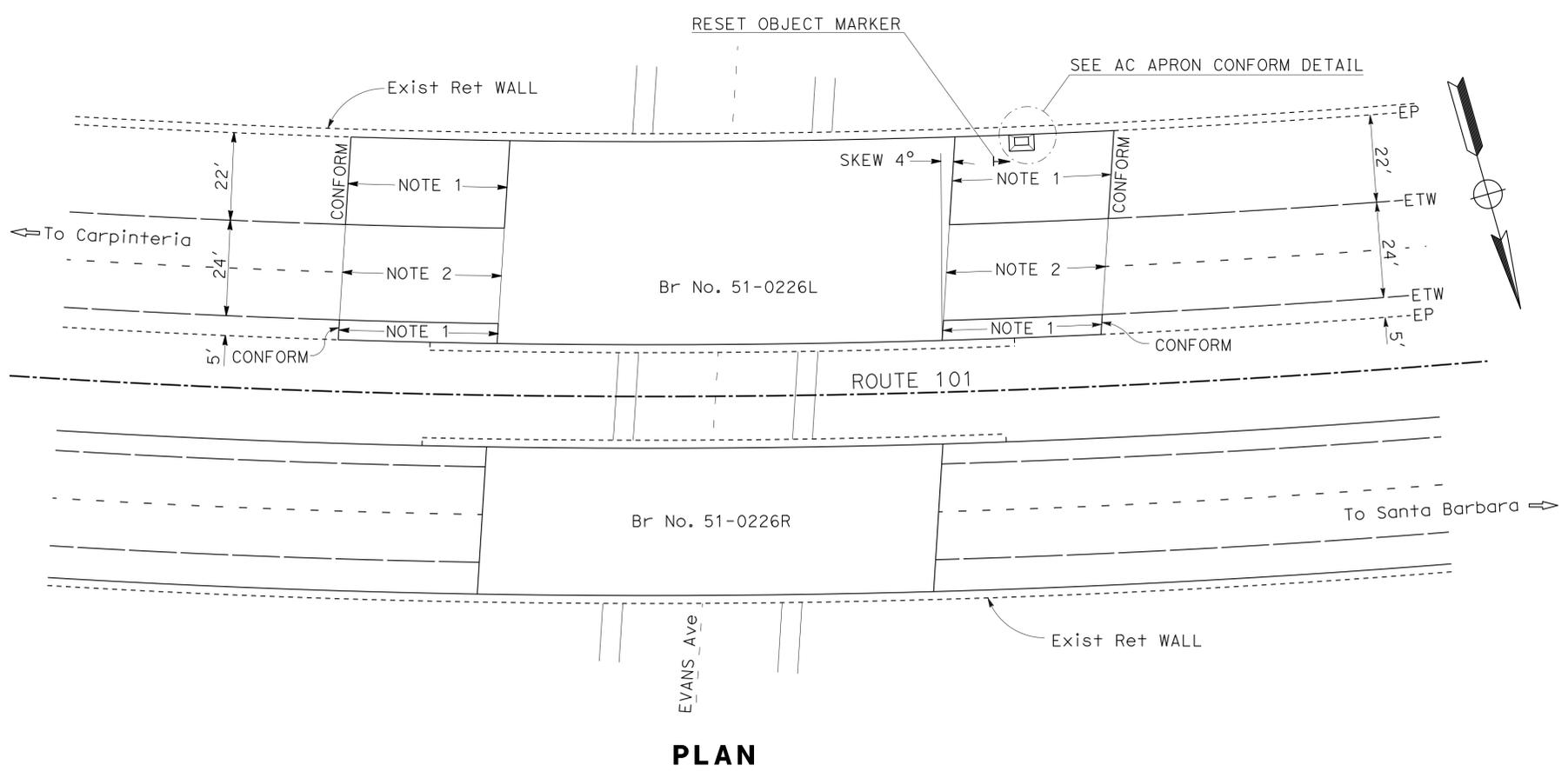
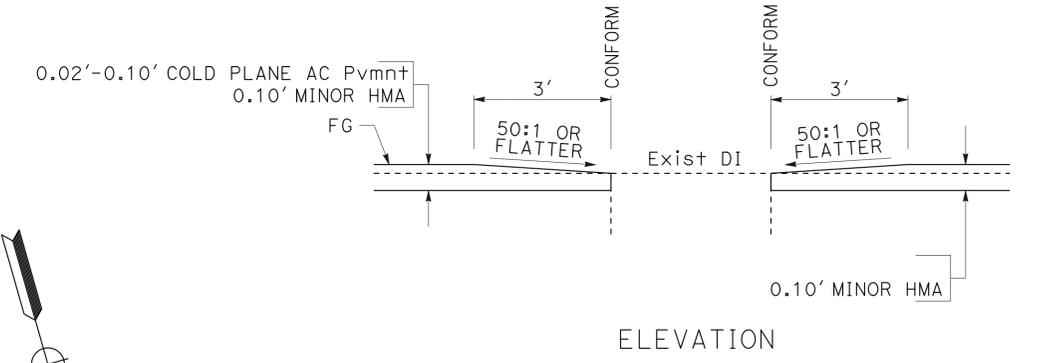


PAVEMENT STRUCTURE

LOCATION		COLD PLANE ASPHALT CONCRETE PAVEMENT	MINOR HOT MIX ASPHALT	TACK COAT (N)
		SQYD	TON	TON
LOC 3 - EVANS Ave UC BB	INSIDE Shld	22	1	0.01
	OUTSIDE Shld	98	7	0.02
LOC 3 - EVANS Ave UC EB	INSIDE Shld	22	1	0.01
	OUTSIDE Shld	98	7	0.02
TOTAL		240	16	

(N) NOT A SEPARATE PAY ITEM. FOR INFORMATION ONLY.

HMA CONFORM TAPER



AC APRON CONFORM DETAIL

CONSTRUCTION DETAILS AND SUMMARY OF QUANTITIES

(LOCATION 3 - EVANS AVENUE UC)

NO SCALE

C-1

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 REVISIONS:

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101, 154	Var	3	20

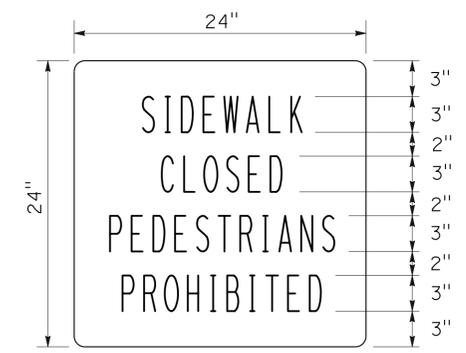
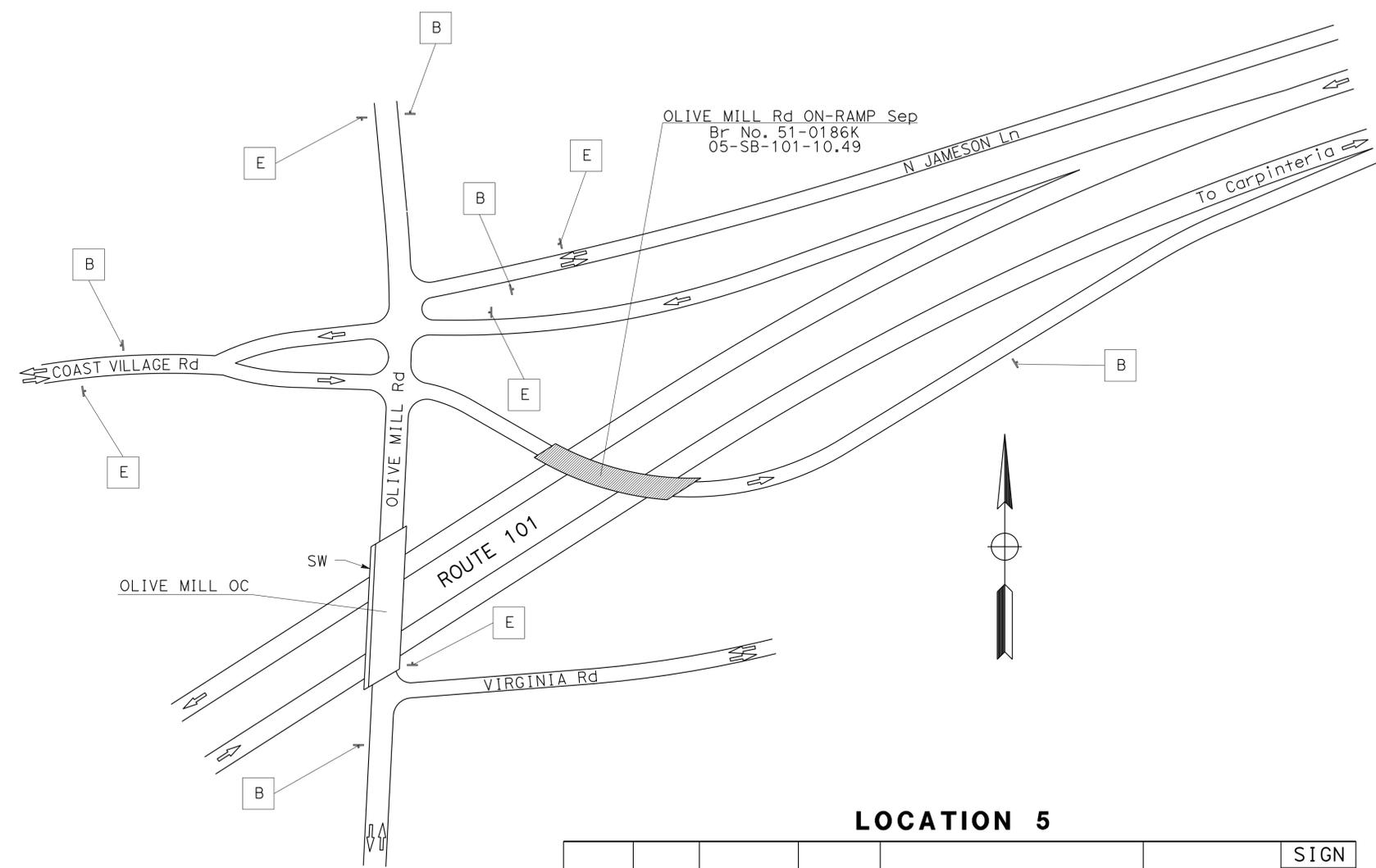
K.L. McKinley 2-17-15
 REGISTERED CIVIL ENGINEER DATE
 2-17-15
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. EXACT LOCATION 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 WHEN EXISTING STRUCTURE HAS TWO SIDEWALKS.
4. SIGN No. C & D TO BE USED ONLY WHEN WORK IS IN PROGRESS AND WITHIN 6 ft+ OF SW.

LEGEND:

- CONSTRUCTION AREA SIGN
- TYPE II BARRICADE



BLACK LETTERS ON WHITE BACKGROUND
 MOUNT PANEL ON TYPE II BARRICADE
SPECIAL SIGN "D"

LOCATION 5

Loc	Co	ROUTE	PM	BRIDGE NAME	BRIDGE No.	SIGN	
						B	E
5	SB	101	10.49	OLIVE MILL Rd ON-RAMP Sep	51-0186K	5	5
SUBTOTAL						5	5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN
 FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN
 CALCULATED/DESIGNED BY: KELLY J. McCLAIN
 CHECKED BY: KELLY J. McCLAIN
 REVISED BY: KELLY L. MCKINLEY
 DATE REVISIED: 2-17-15

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101,154	Var	5	20

K.L. McKinley 2-17-15
 REGISTERED CIVIL ENGINEER DATE

2-17-15
 PLANS APPROVAL DATE

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

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 THERMOPLASTIC PAVEMENT MARKING	REMOVE PAVEMENT MARKER	DESCRIPTION/COMMENTS	
							WHITE SOLID LF	WHITE BROKEN LF	YELLOW SOLID LF				
1	SB	101	1.62	BAILARD Ave OC	51-0224	22			564		EA	INCLUDES 188 LF BLACK STRIPE	
2	SB	101	R7.13	PADARO LANE OC	51-0227	21			582			INCLUDES 194 LF BLACK STRIPE	
										28	"NO"		
3	SB	101	R8.26	EVANS Ave UC	51-0226L					26	"RIGHT"		
						25A		114		8			
4	SB	101	10.02	SAN YSIDRO ROAD OC	51-0185	11		29			10		
						13							
						27B	228						
						38B	351				9-12" HATCH 13 LF EACH		
5	SB	101	10.49	OLIVE MILL ROAD ON-RAMP Sep	51-0186K	21			348			INCLUDES 116 LF BLACK STRIPE	
										28	"NO"		
6	SB	101	11.43	CABRILLO Blvd UC	51-0086L					52	"RIGHT"		
						25A		147			16		
						27B	147						
						25		149		3			
7	SB	101	R15.26	MICHELTORENA S+ VIADUCT	51-0327	11		74					
						13							
						27B	149				32		
						21			1,122			INCLUDES 374 LF BLACK STRIPE	
8	SB	101	R15.73	MISSION S+ UC	51-0210L	27			258		8		
						11		64					
						13					39		
						27B	129						
8	SB	101	R15.73	MISSION S+ UC	51-0210R	25			129		8		
						11		64					
						13					30		
						27B	129						
9	SB	101	20.95	MARIA YGNACIO CREEK	51-0162L	25A			150		12		
						11		76					
						13					66		
						27B	150						
10	SB	154	30.21	SAN ANTONIO CREEK	51-0084	23 Mod			600		152	INCLUDES 200 LF BLACK STRIPE	
						27B	400						
SUBTOTAL													
TOTAL								1,683	307		134	400	

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: KELLY L. MCKINLEY
 DATE REVISED:

PAVEMENT DELINEATION QUANTITIES PDQ-1

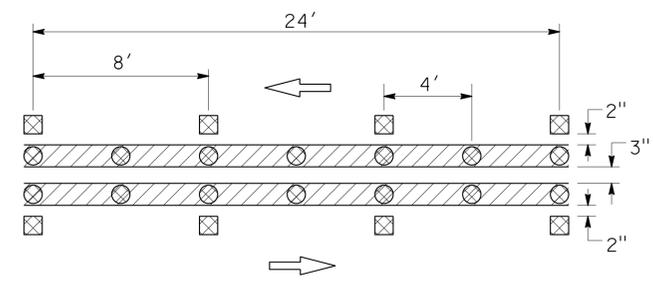
LAST REVISION | DATE PLOTTED => 17-FEB-2015
 02-12-15 | TIME PLOTTED => 13:58

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101,154	Var	6	20

Kelly McKinley 2-17-15
 REGISTERED CIVIL ENGINEER DATE
 2-17-15
 PLANS APPROVAL DATE

K.L. McKinley
 No. 49413
 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.



DETAIL 23 MODIFIED
NO SCALE

PAVEMENT DELINEATION

Loc	Co	ROUTE	PM	BRIDGE NAME	BRIDGE No.	DETAIL No.	4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 36-12)		4" THERMOPLASTIC TRAFFIC STRIPE		6" THERMOPLASTIC TRAFFIC STRIPE	THERMOPLASTIC PAVEMENT MARKING SQFT	PAVEMENT MARKER (RETROREFLECTIVE)			PAVEMENT MARKER (NON-REFLECTIVE)		DESCRIPTION/ COMMENTS				
							WHITE	BROKEN	WHITE	YELLOW	WHITE		TYPE D	TYPE G	TYPE H	TYPE A	TYPE AY					
							LF	LF	SOLID	SOLID	SOLID		EA	EA	EA	EA	EA					
1	SB	101	1.62	BAILARD Ave OC	51-0224	22						18										
2	SB	101	R7.13	PADARO LANE OC	51-0227	21						28						"NO" "RIGHT"				
3	SB	101	R8.26	EVANS Ave UC	51-0226L	25A																
						11	114															
						13																
						27B			228													
4	SB	101	10.02	SAN YSIDRO ROAD OC	51-0185	39																
						21																
5	SB	101	10.49	OLIVE MILL ROAD ON-RAMP Sep	51-0186K	21																
						25A																
6	SB	101	11.43	CABRILLO Blvd UC	51-0086L	27B																
						11	298															
						13																
						27B			149													
7	SB	101	R15.26	MICHELTORENA S+ VIADUCT	51-0327	21																
						25																
						11	258															
						13																
8	SB	101	R15.73	MISSION S+ UC	51-0210L	27B																
						25																
						11	258															
						13																
8	SB	101	R15.73	MISSION S+ UC	51-0210R	27B																
						25																
						11	258															
						13																
9	SB	101	20.95	MARIA YGNACIO CREEK	51-0162L	27B																
						25A																
						11	300															
						13																
10	SB	154	30.21	SAN ANTONIO CREEK	51-0084	23 Mod																
						27B																
SUBTOTAL							1,228	1,332	2,962	234	134	52	35	32	104	102						
TOTAL							1,228	1,332	4,294	234	134	119	206									

PAVEMENT DELINEATION DETAILS AND QUANTITIES PDQ-2

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: []
 REVISIONS: []

LAST REVISION DATE PLOTTED => 17-FEB-2015
 02-12-15 TIME PLOTTED => 13:58

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

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

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

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101, 154	Var	7	20

Grace M. Tsushima
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 Grace M. Tsushima
 No. C49814
 Exp. 9-30-14
 CIVIL
 STATE OF CALIFORNIA

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

TO ACCOMPANY PLANS DATED 2-17-15

UNIT OF MEASUREMENT SYMBOLS:

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

TABLE A

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

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

TABLE B

SYMBOL USED	DEFINITIONS
ksi	KIPS PER SQUARE INCH
ksf	KIPS PER SQUARE FOOT
psi	POUNDS PER SQUARE INCH
psf	POUNDS PER SQUARE FOOT
lb/ft ³ , pcf	POUNDS PER CUBIC FOOT
tsf	TONS PER SQUARE FOOT
mph, MPH *	MILES PER HOUR
∅	NOMINAL DIAMETER
oz	OUNCE
lb	POUND
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

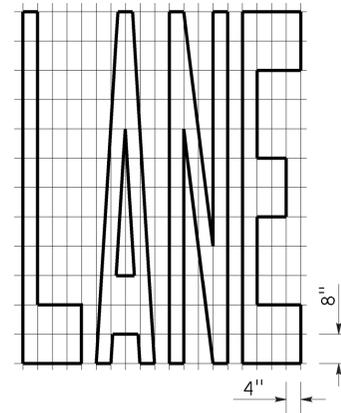
**ABBREVIATIONS
(SHEET 2 OF 2)**

NO SCALE

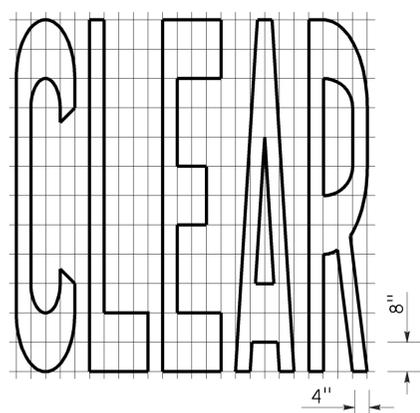
RSP A10B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A10B
DATED MAY 20, 2011 - PAGE 2 OF THE STANDARD PLANS BOOK DATED 2010.

2010 REVISED STANDARD PLAN RSP A10B

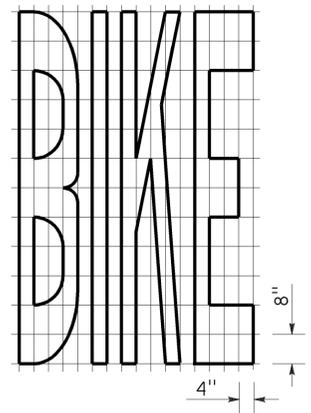
TO ACCOMPANY PLANS DATED 2-17-15



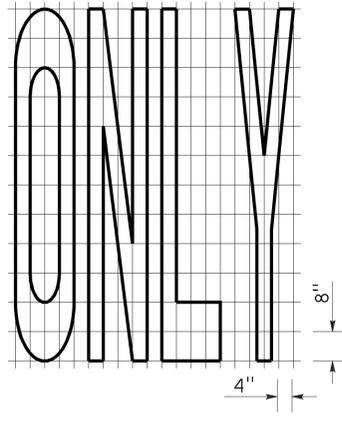
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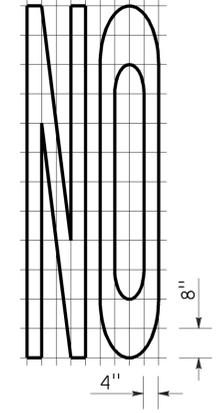
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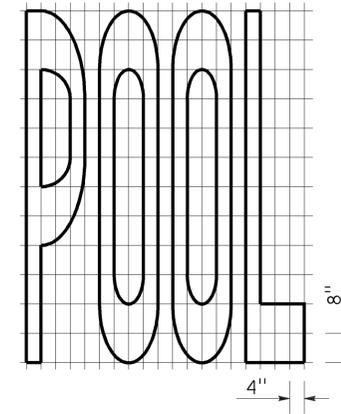
A=21 ft²



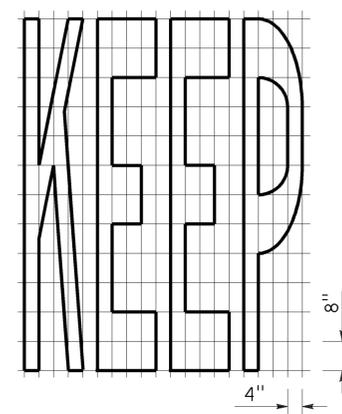
A=22 ft²



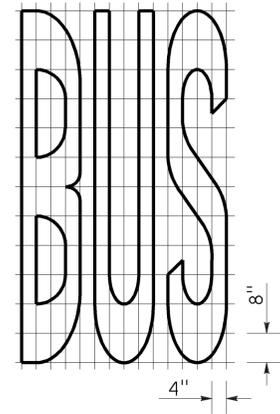
A=14 ft²



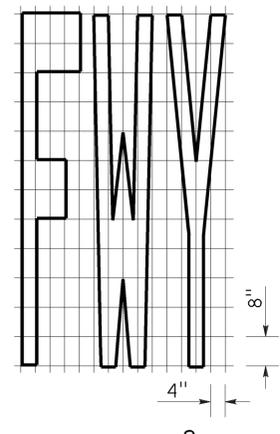
A=23 ft²



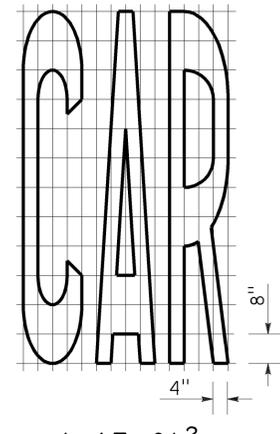
A=24 ft²



A=20 ft²

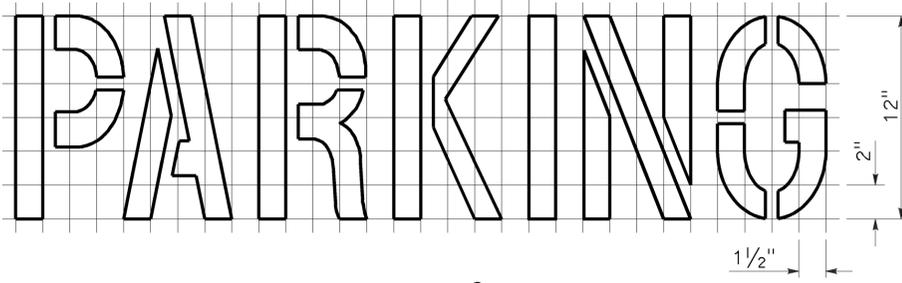
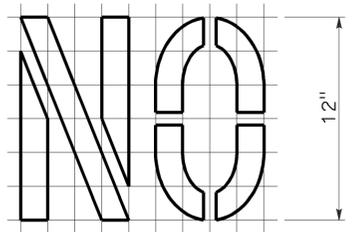


A=16 ft²

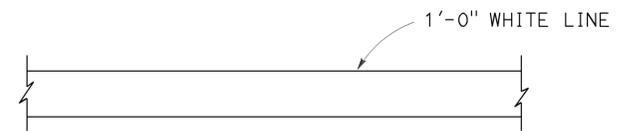


A=17 ft²

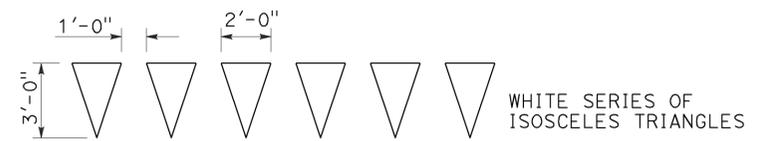
WORD MARKINGS			
ITEM	ft ²	ITEM	ft ²
LANE	24	NO	14
POOL	23	BIKE	21
CAR	17	BUS	20
CLEAR	27	ONLY	22
KEEP	24	FWY	16



A=2 ft²
See Notes 6 and 7



LIMIT LINE (STOP LINE)



DIRECTION OF TRAVEL
YIELD LINE

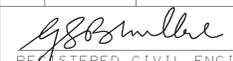
NOTES:

1. If a message consists of more than one word, it should read "UP", i.e., the first word should be nearest the driver.
2. The space between words should be at least four times the height of the characters for low speed roads, but not more than ten times the height of the characters. The space may be reduced appropriately where there is limited space because of local conditions.
3. Minor variations in dimensions may be accepted by the Engineer.
4. Portions of a letter, number or symbol may be separated by connecting segments not to exceed 2" in width.
5. The words "NO PARKING" pavement marking is to be used for parking facilities. For typical locations of markings, see Standard Plans A90A and A90B.
6. The words "NO PARKING", shall be painted in white letters no less than 1'-0" high on a contrasting background and located so that it is visible to traffic enforcement officials.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**PAVEMENT MARKINGS
WORDS, LIMIT AND YIELD LINES**
NO SCALE

RSP A24E DATED JULY 20, 2012 SUPERSEDES STANDARD PLAN A24E
DATED MAY 20, 2011 - PAGE 17 OF THE STANDARD PLANS BOOK DATED 2010.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101, 154	Var	9	20


 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 2-17-15

TABLE 1

TAPER LENGTH CRITERIA AND CHANNELIZING DEVICE SPACING							
SPEED (S)	MINIMUM TAPER LENGTH * FOR WIDTH OF OFFSET 12 FEET (W)				MAXIMUM CHANNELIZING DEVICE SPACING		
	TANGENT 2L	MERGING L	SHIFTING L/2	SHOULDER L/3	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

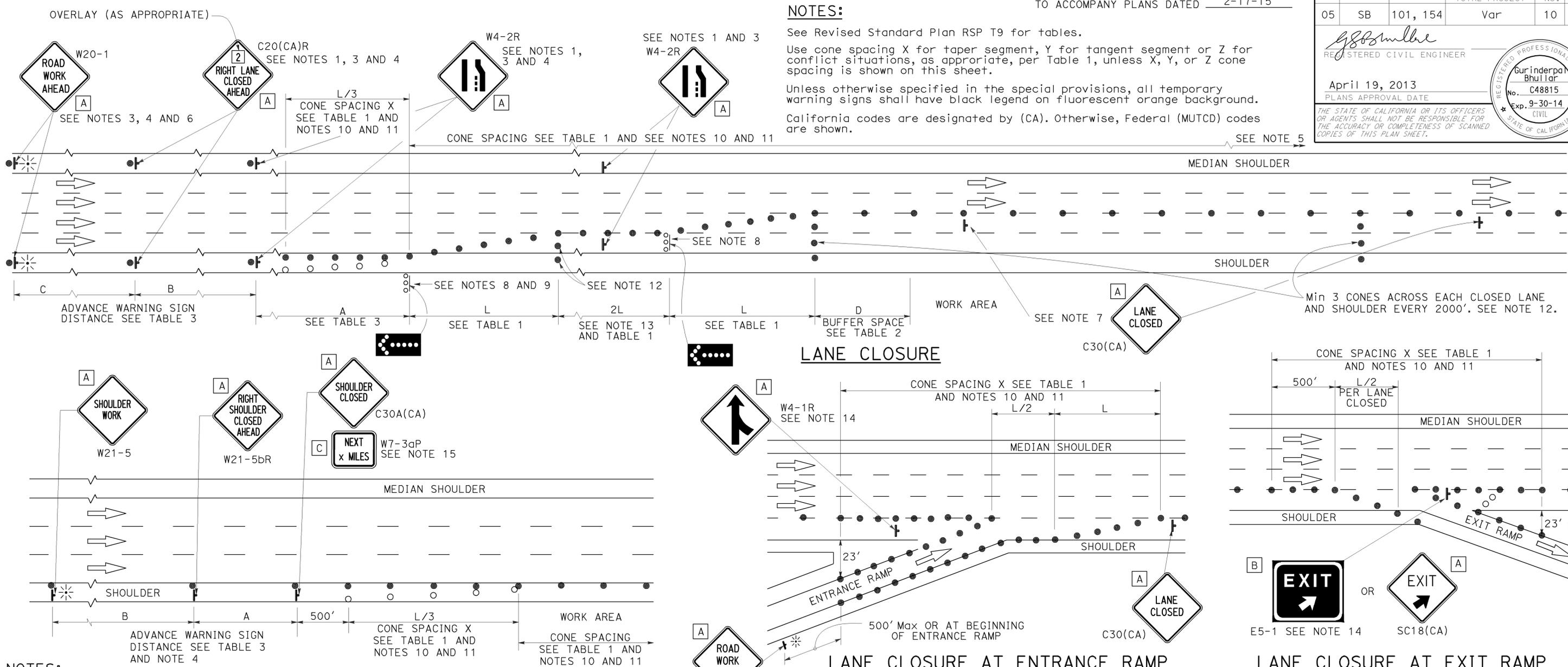
2010 REVISED STANDARD PLAN RSP T9

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101, 154	Var	10	20

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.

- SHOULDER CLOSURE**
- If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT ___ MILES", use a C20(CA) 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.

- LANE CLOSURE AT ENTRANCE RAMP**
- LANE CLOSURE AT EXIT RAMP**
- Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000' as shown on the "Lane Closure" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
 - Unless otherwise specified in the special provisions, the 2L tangent shown along lane lines shall be used between the L tapers required for each closed traffic lane.
 - Unless otherwise specified in the special provisions, the E5-1 or SC18(CA) 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"

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

**TRAFFIC CONTROL SYSTEM
 FOR LANE CLOSURE ON
 FREEWAYS AND EXPRESSWAYS**

NO SCALE

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

REVISED STANDARD PLAN RSP T10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101, 154	Var	11	20

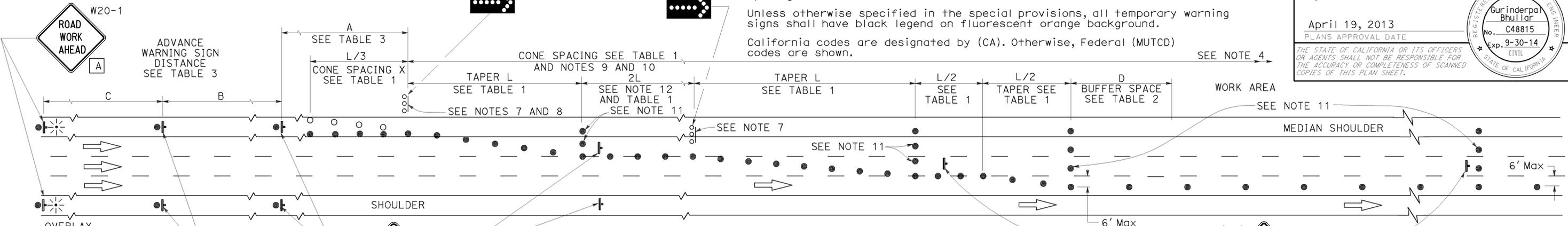
REGISTERED CIVIL ENGINEER
 Gurinderpal Bhullar
 No. C48815
 Exp. 9-30-14
 CIVIL
 STATE OF CALIFORNIA

April 19, 2013
 PLANS APPROVAL DATE

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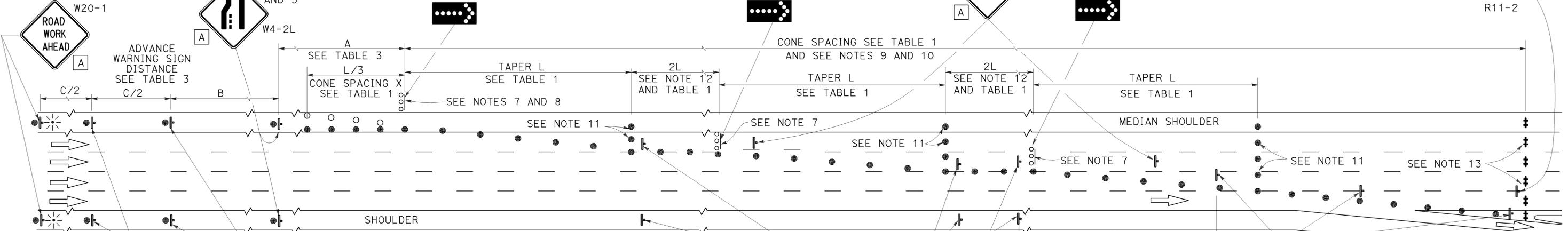
NOTES: See Revised Standard Plan RSP T9 for tables.
 Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.
 Unless otherwise specified in the special provisions, all temporary warning 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	SB	101, 154	Var	12	20

Devinder Singh
REGISTERED CIVIL ENGINEER

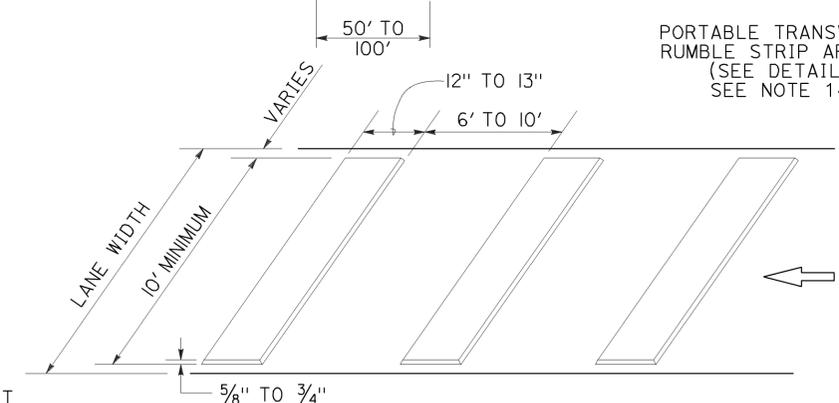
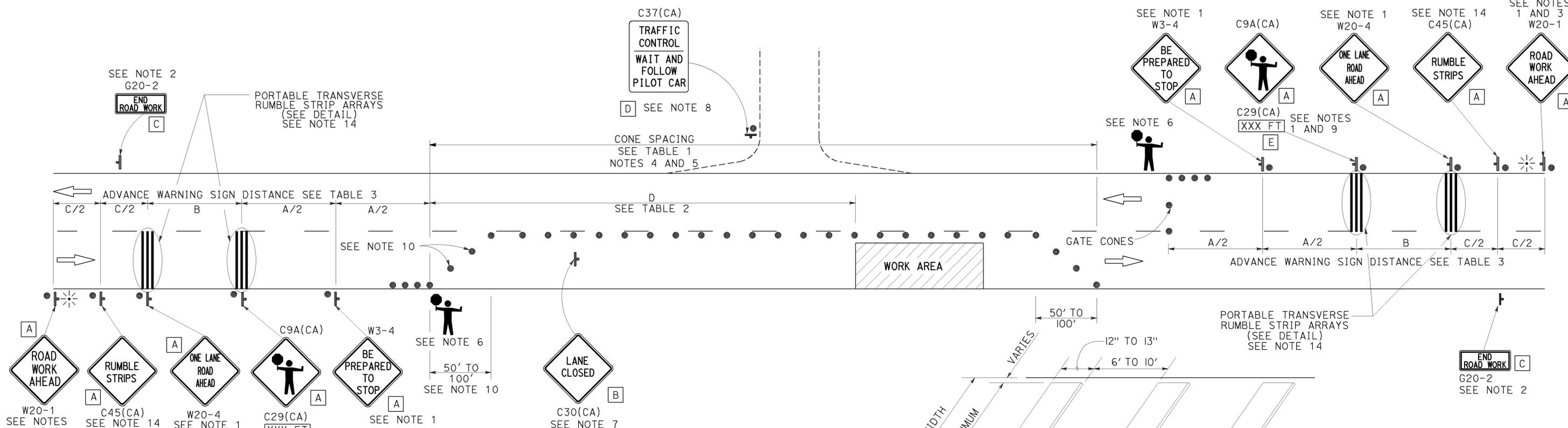
October 17, 2014
PLANS APPROVAL DATE

Devinder Singh
No. C50470
Exp. 6-30-15
CIVIL
STATE OF CALIFORNIA

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

TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL

TO ACCOMPANY PLANS DATED 2-17-15



LEGEND

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

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

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 17, 2014 SUPERSEDES 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	SB	101, 154	Var	13	20

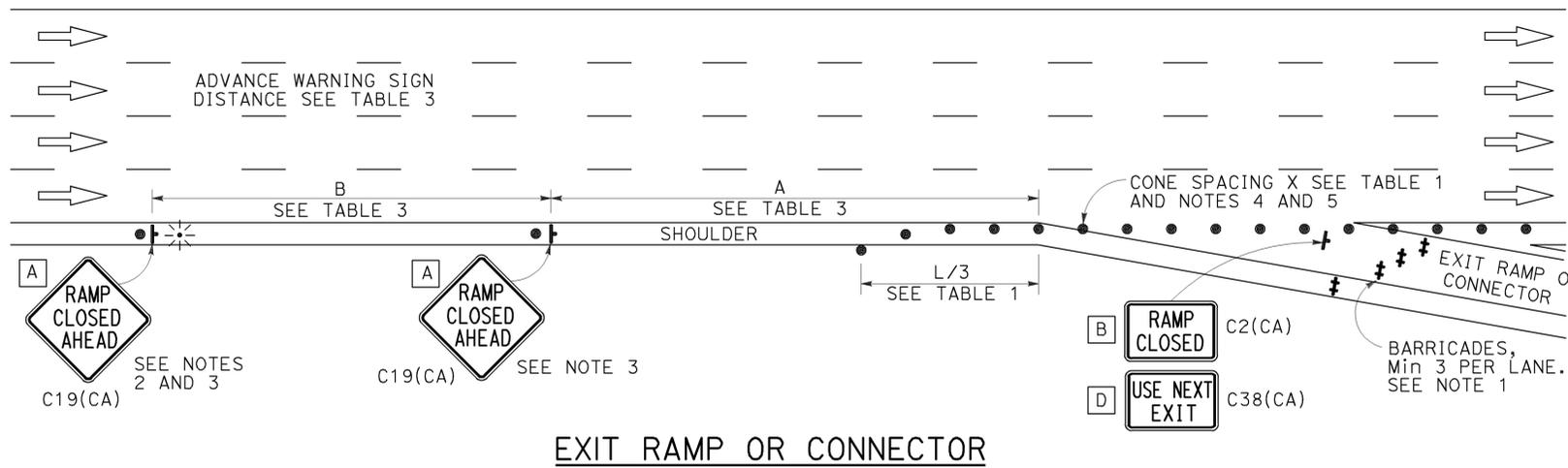
G. S. Miller
 REGISTERED CIVIL ENGINEER
 April 19, 2013
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

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

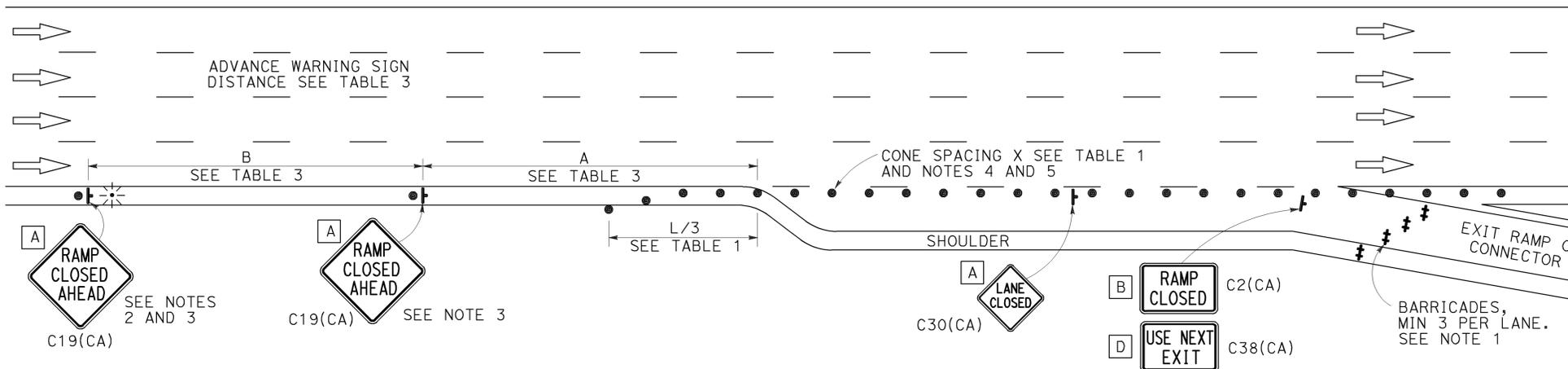
TO ACCOMPANY PLANS DATED 2-17-15

NOTES:

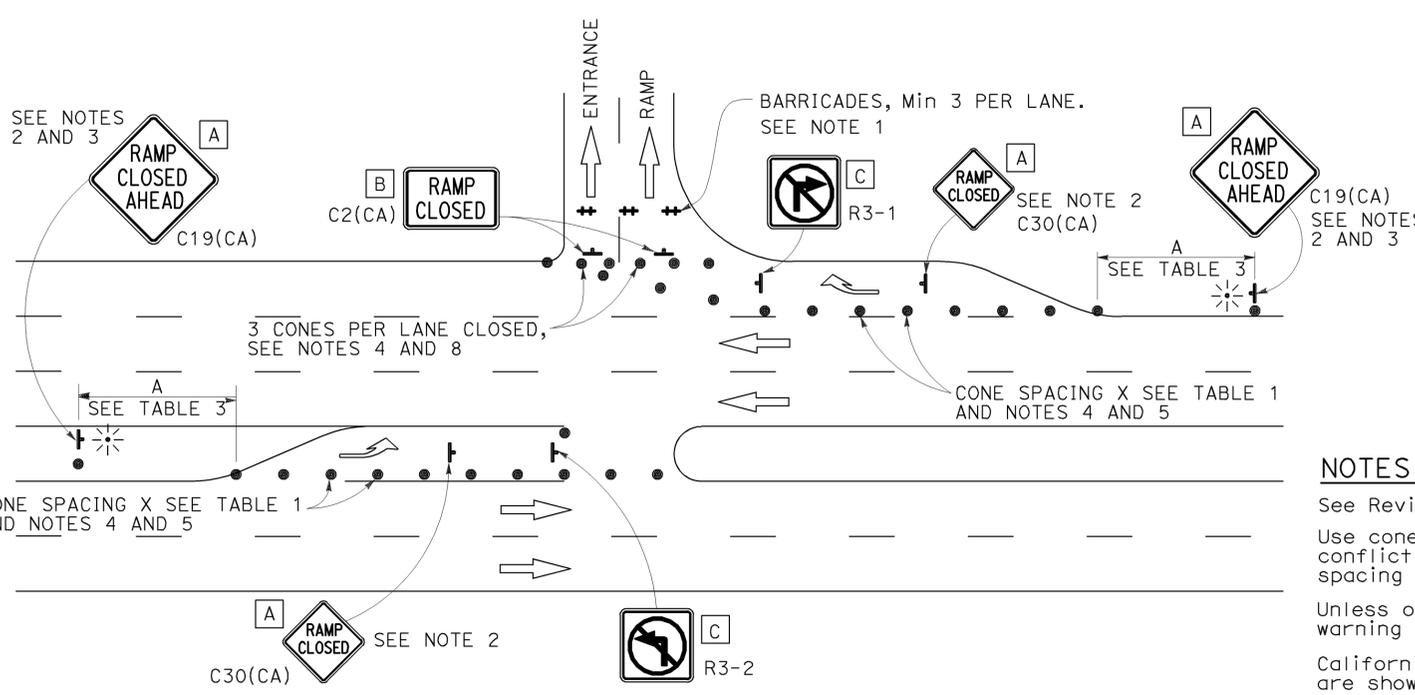
- Barricades shall be Type I, II, or III for closures lasting one week or less and Type III for closures lasting longer than one week.
- In addition to placing the C19(CA) "RAMP CLOSED AHEAD" and C30(CA) "RAMP CLOSED" signs, black on orange overlay plates with the word "CLOSED" may be mounted, as directed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



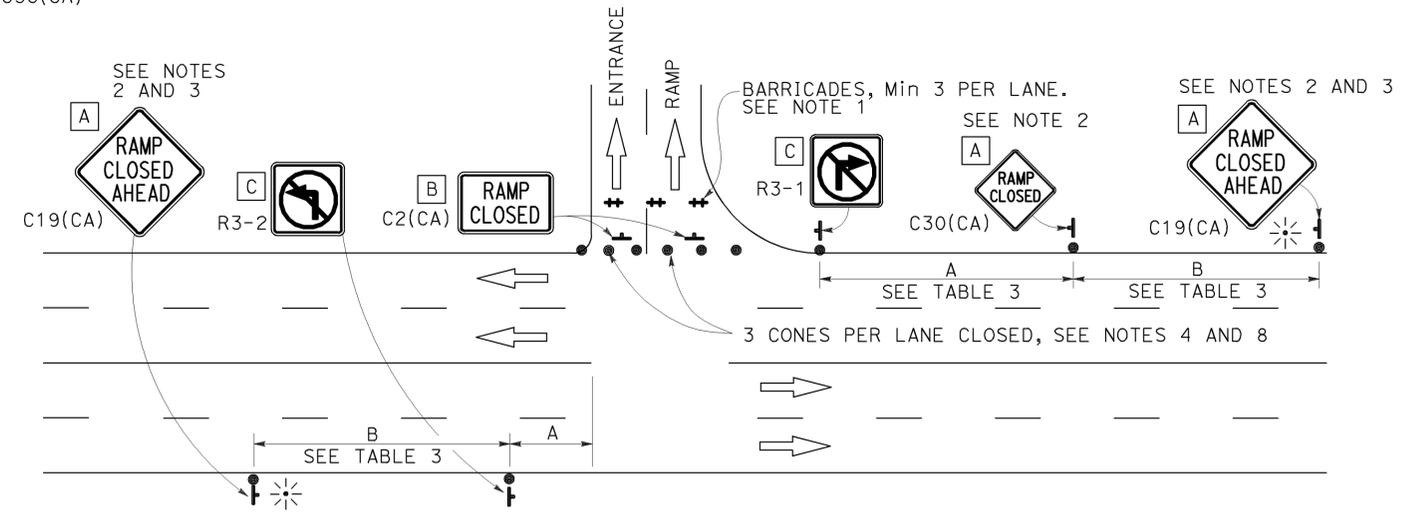
EXIT RAMP OR CONNECTOR



EXIT RAMP OR CONNECTOR WITH ADDITIONAL LANE



ENTRANCE RAMP WITH TURNING POCKETS



ENTRANCE RAMP WITHOUT TURNING POCKETS

NOTES:

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

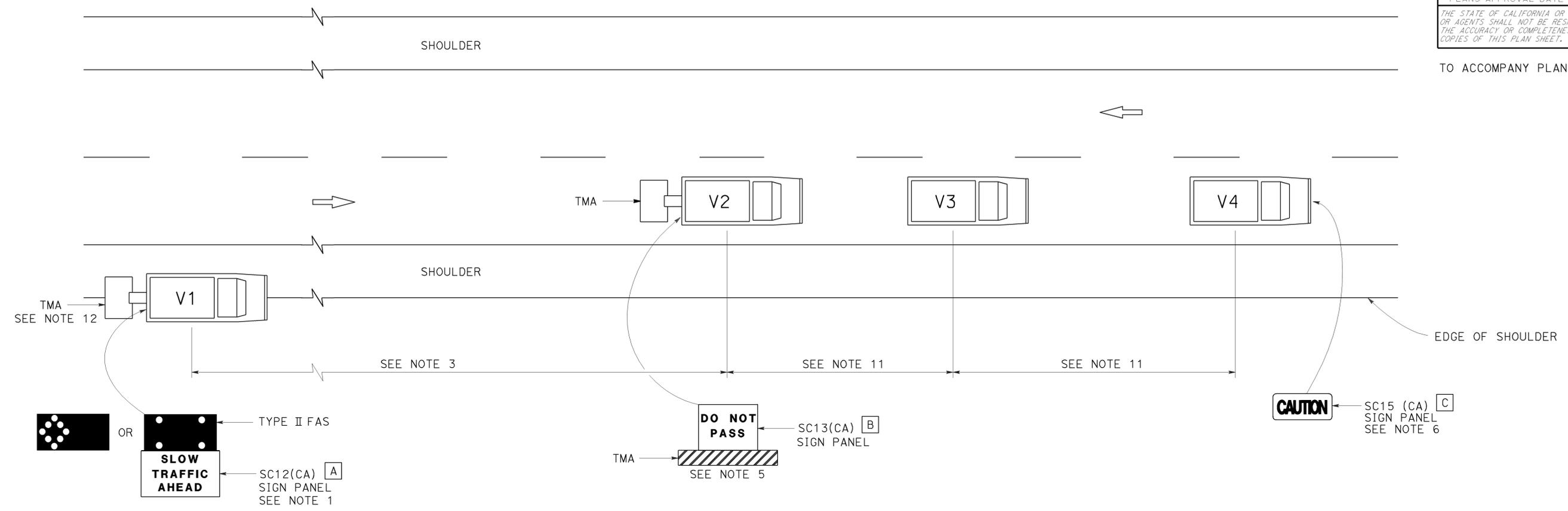
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
 FOR RAMP CLOSURE**
 NO SCALE

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

REVISED STANDARD PLAN RSP T14

2010 REVISED STANDARD PLAN RSP T14

TO ACCOMPANY PLANS DATED 2-17-15



NOTES:

1. Either a changeable message sign or a SC12(CA) "SLOW TRAFFIC AHEAD" sign shall be mounted on the rear of sign vehicle V1. The changeable message sign shall be sequenced to show the "CAUTION" message first, follow by the "SLOW TRAFFIC AHEAD" message. A Type II flashing arrow sign may be used with the SC12(CA) sign panel.
2. Sign vehicle V1 should be positioned where highly visible when shoulders are not available.
3. If traffic queues develop, sign vehicle V1 should be positioned upstream from the end of queue.
4. Vehicle-mounted sign panels shall have Type III or above retroreflective sheeting, black on white, or black on fluorescent orange, with 6" minimum series D letters per Caltrans sign specifications.
5. Shadow vehicle shall be equipped with a truck-mounted attenuator. The sign panel shown shall be mounted on the rear of shadow vehicle V2. The message "LANE CLOSED" may be used in place of the "DO NOT PASS" message.
6. The sign panel shown shall be mounted on the front of sign vehicle V4, facing opposing traffic.

7. All vehicles shall be equipped with flashing or rotating amber lights.
8. Sign vehicle V4 will not be required when the work and vehicles V2 and V3 are 2' or more from the centerline of the highway during the work or application operations.
9. All vehicles used for lane closures shall be equipped with two-way radios and the vehicle operators shall maintain communication during the work or application operation.
10. This plan shall not be used where workers would be on foot in the work area. Use a stationary type lane closure (Revised Standard Plan T13) for this condition.
11. Minimize spacing between vehicles V2 and V3 and vehicles V3 and V4 to deter road users from driving in between them.
12. If sign vehicle V1 encroaches into the traffic lane due to insufficient shoulder width, sign vehicle V1 shall be equipped with a truck-mounted attenuator. Sign vehicle V1 shall stay as close to the edge of shoulder as practicable.

LEGEND

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

SIGN PANEL SIZE (Min)

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

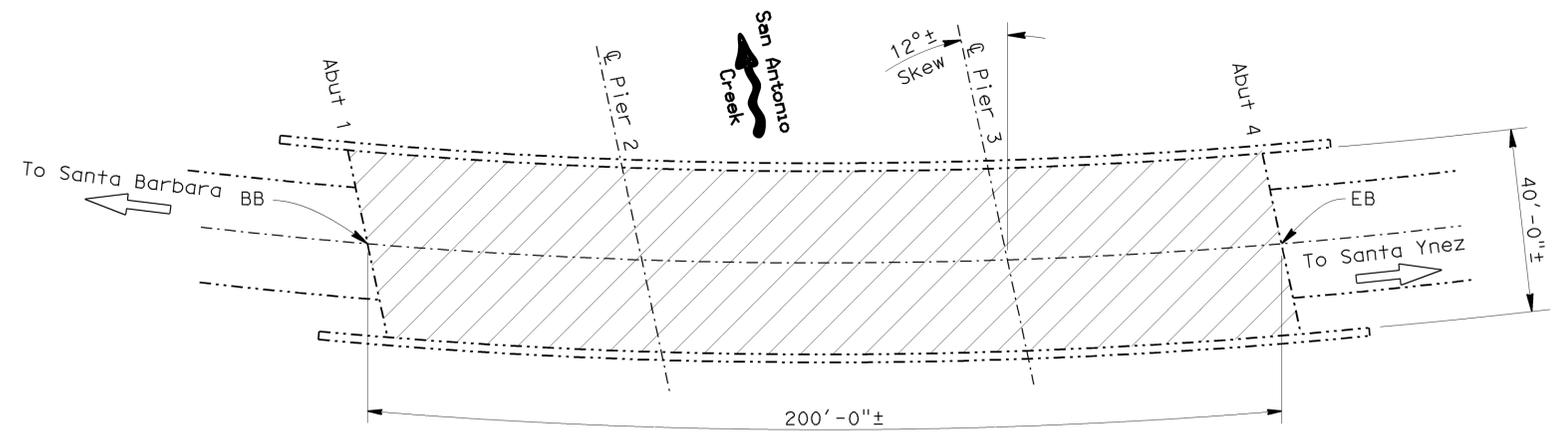
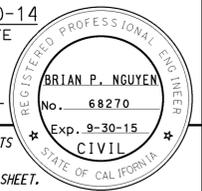
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
 FOR MOVING LANE CLOSURE
 ON TWO LANE HIGHWAYS**
 NO SCALE

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

REVISED STANDARD PLAN RSP T17

2010 REVISED STANDARD PLAN RSP T17

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
05	SB	101,154	Var	15	20
 REGISTERED CIVIL ENGINEER			12-30-14	DATE	
PLANS APPROVAL DATE 2-17-15					
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.					



SAN ANTONIO CREEK
 BR. NO. 51-0084, RTE 154, PM 30.21
 1"=20'

SAN ANTONIO CREEK BRIDGE NO. 51-0084

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	8,000	SOFT
TREAT BRIDGE DECK	8,000	SOFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	90	GAL

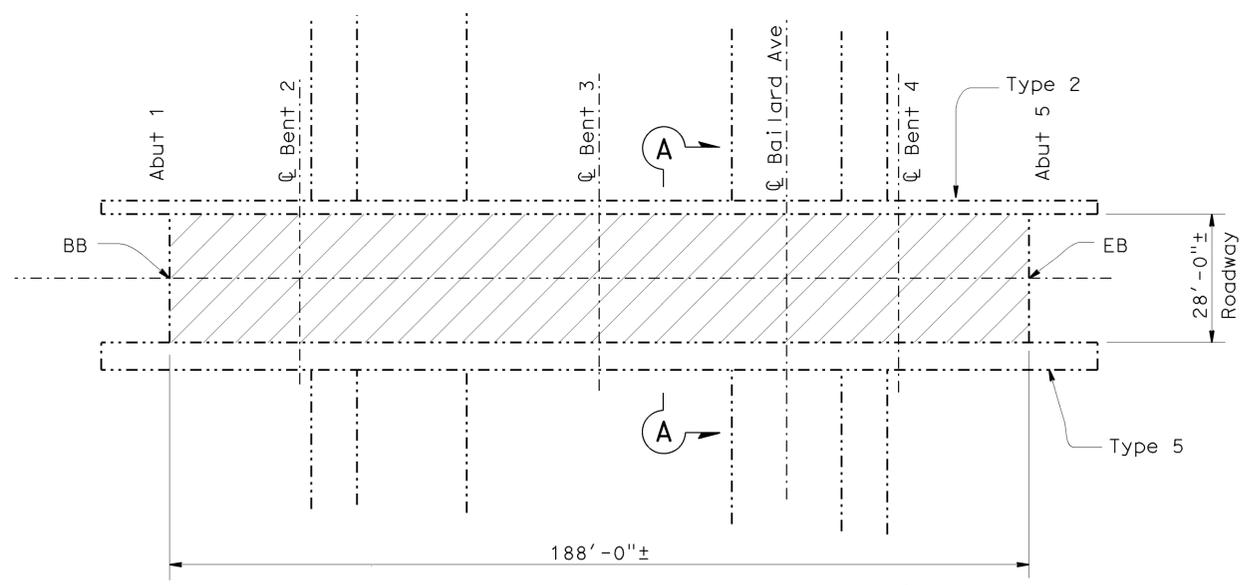
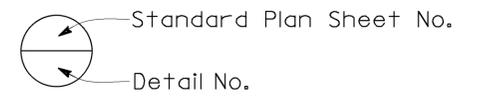
- NOTES:
- Indicates existing.
 -  Indicates limits of prepare concrete bridge deck surface and treat bridge deck with high molecular weight methacrylate.

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	MISCELLANEOUS DETAILS

STANDARD PLANS DATED MAY 2010

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

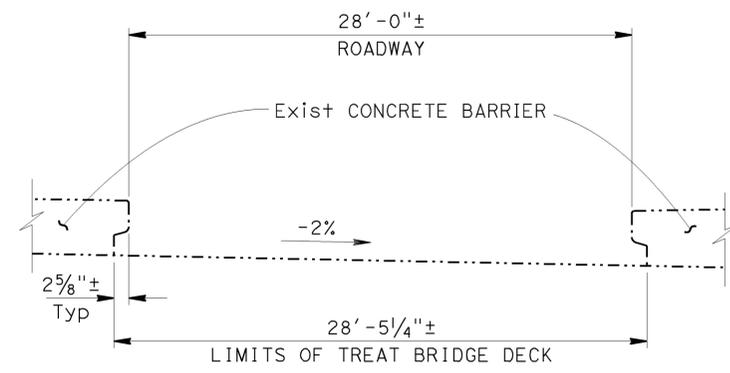


BAILARD AVE OC
 BR. NO. 51-0224, RTE 101, PM 1.62 CARP
 1"=20'

BAILARD AVE OC BRIDGE NO. 51-0224

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	5,264	SOFT
TREAT BRIDGE DECK	5,264	SOFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	59	GAL



SECTION A-A
 Br No. 51-0224
 NO SCALE

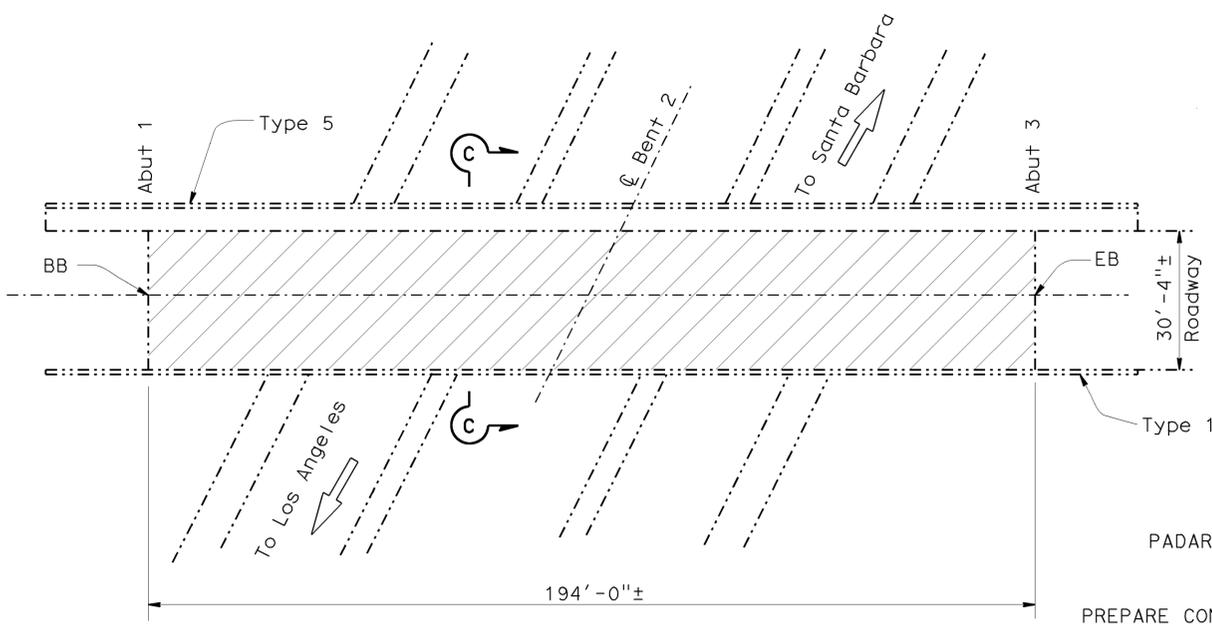
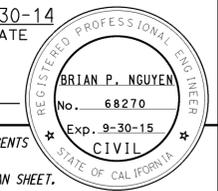
NOTE:
 THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

 12-30-14 DESIGN ENGINEER	DESIGN	BY Brian Nguyen	CHECKED Timothy Powell	LAYOUT	BY Trung Lam	CHECKED Brian Nguyen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTE 101 & 154 BRIDGES GENERAL PLAN NO. 1				
	DETAILS	BY Trung Lam	CHECKED Timothy Powell	SPECIFICATIONS	BY Jim Corrado	CHECKED Jim Corrado			VARIOUS					
	QUANTITIES	BY Brian Nguyen	CHECKED Timothy Powell					POST MILE						
STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)							ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	UNIT: 3488	PROJECT NUMBER & PHASE: 0513000137 1	CONTRACT NUMBER: 05-1F3901	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 1 OF 6

USERNAME => s115755 DATE PLOTTED => 03-FEB-2015 TIME PLOTTED => 16:40

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
05	SB	101,154	Var	16	20

12-30-14
 REGISTERED CIVIL ENGINEER DATE
 2-17-15
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

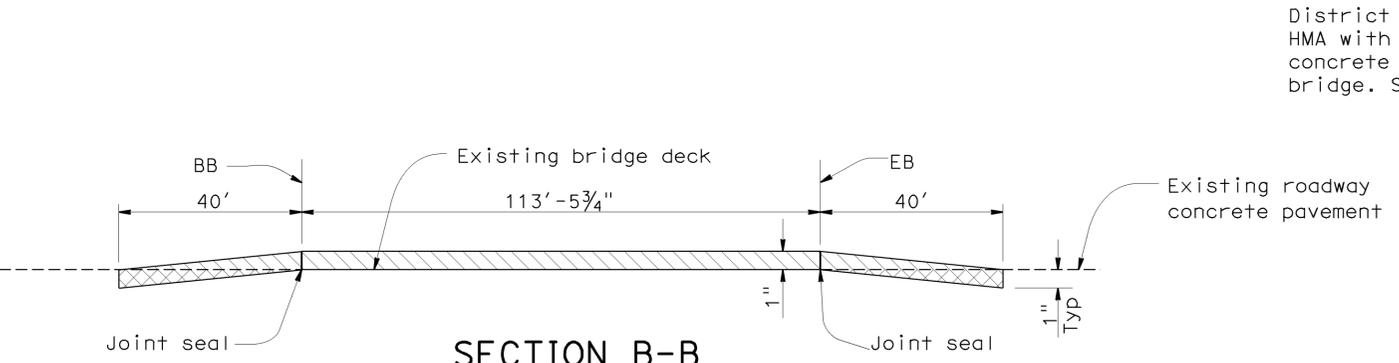


PADARO LANE OC
BR. NO. 51-0227, RTE 101, PM R7.13
1"=20'

PADARO LANE OC BRIDGE NO. 51-0227
QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	5,885	SOFT
TREAT BRIDGE DECK	5,885	SOFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	65	GAL

- NOTES:**
- Indicates existing.
 - [Hatched Box] Indicates limits of prepare concrete bridge deck surface and treat bridge deck with high molecular weight methacrylate.
 - [Cross-hatched Box] Indicates limits of remove unsound concrete, place rapid setting concrete patches, prepare concrete bridge deck surface, and place new 1" min depth polyester concrete overlay. For details, see "MISCELLANEOUS DETAILS" sheet.
 - [Solid Line] Indicates limits of clean expansion joint and install new joint seal. For details, see "MISCELLANEOUS DETAILS" sheet.

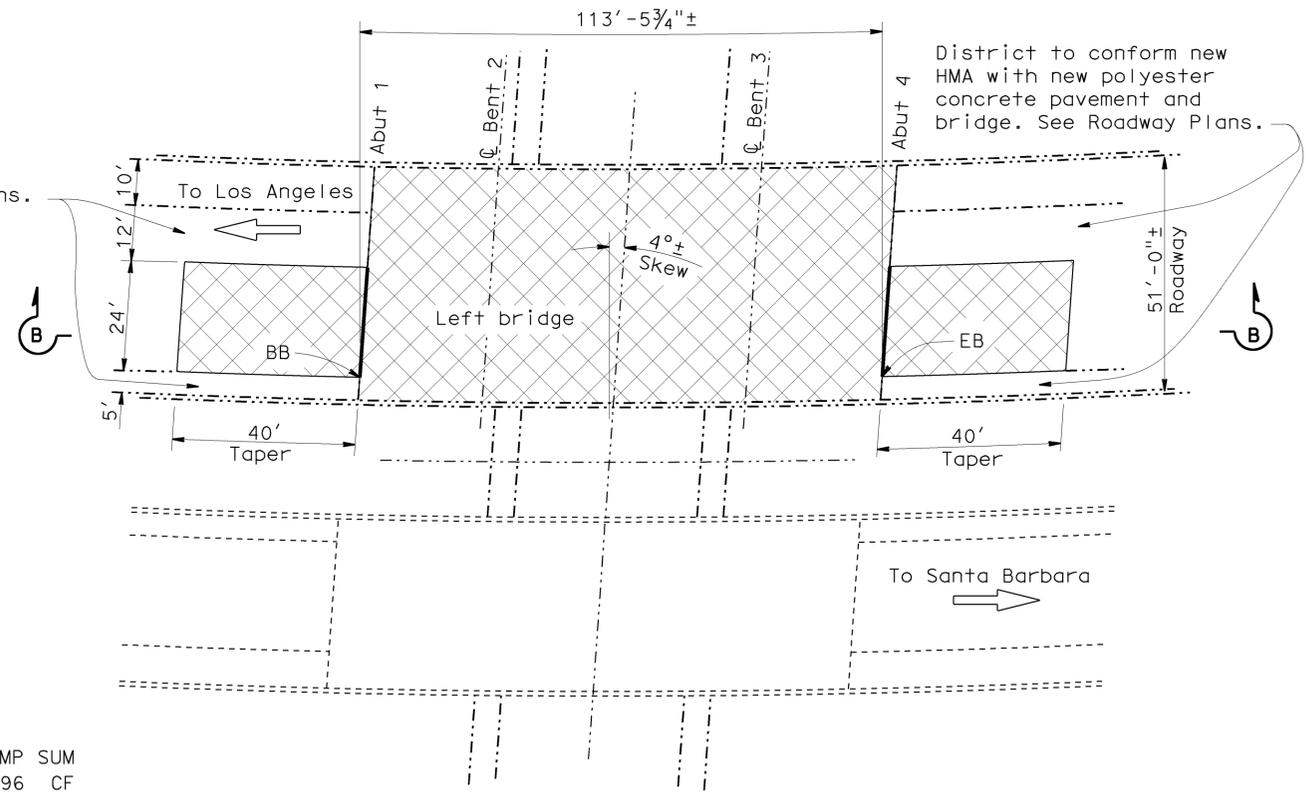


SECTION B-B
Br No. 51-0226L
NO SCALE

- Notes:**
- [Hatched Box] Indicates limits of grind roadway concrete pavement.
 - [Cross-hatched Box] New 1" minimum polyester concrete overlay.

EVANS AVE UC BRIDGE NO. 51-0226L
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
RAPID SETTING CONCRETE (PATCH)	96 CF
REMOVE UNSOUND CONCRETE	96 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	7,708 SQFT
FURNISH POLYESTER CONCRETE OVERLAY	771 CF
PLACE POLYESTER CONCRETE OVERLAY	7,708 SQFT
GRIND EXISTING CONCRETE PAVEMENT	214 SQYD
CLEAN EXPANSION JOINT	50 LF
JOINT SEAL (MR 1/2")	50 LF



EVANS AVE UC
BR. NO. 51-0226L, RTE 101, PM R8.26
1"=20'

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

 DESIGN ENGINEER 12-30-14	DESIGN	BY Brian Nguyen	CHECKED Timothy Powell	LAYOUT	BY Trung Lam	CHECKED Brian Nguyen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	VARIOUS	ROUTE 101 & 154 BRIDGES GENERAL PLAN NO. 2
	DETAILS	BY Trung Lam	CHECKED Timothy Powell	SPECIFICATIONS	BY Jim Corrado	CHECKED Jim Corrado			POST MILE	VARIES	
QUANTITIES	BY Brian Nguyen	CHECKED Timothy Powell	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3	UNIT: 3488 PROJECT NUMBER & PHASE: 0513000137 1	CONTRACT NUMBER: 05-1F3901	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	7-31-14 10-31-14 12-12-14	SHEET 2 OF 6

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)

FILE => 05-1f3901_02_gp2.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
05	SB	101,154	Var	17	20

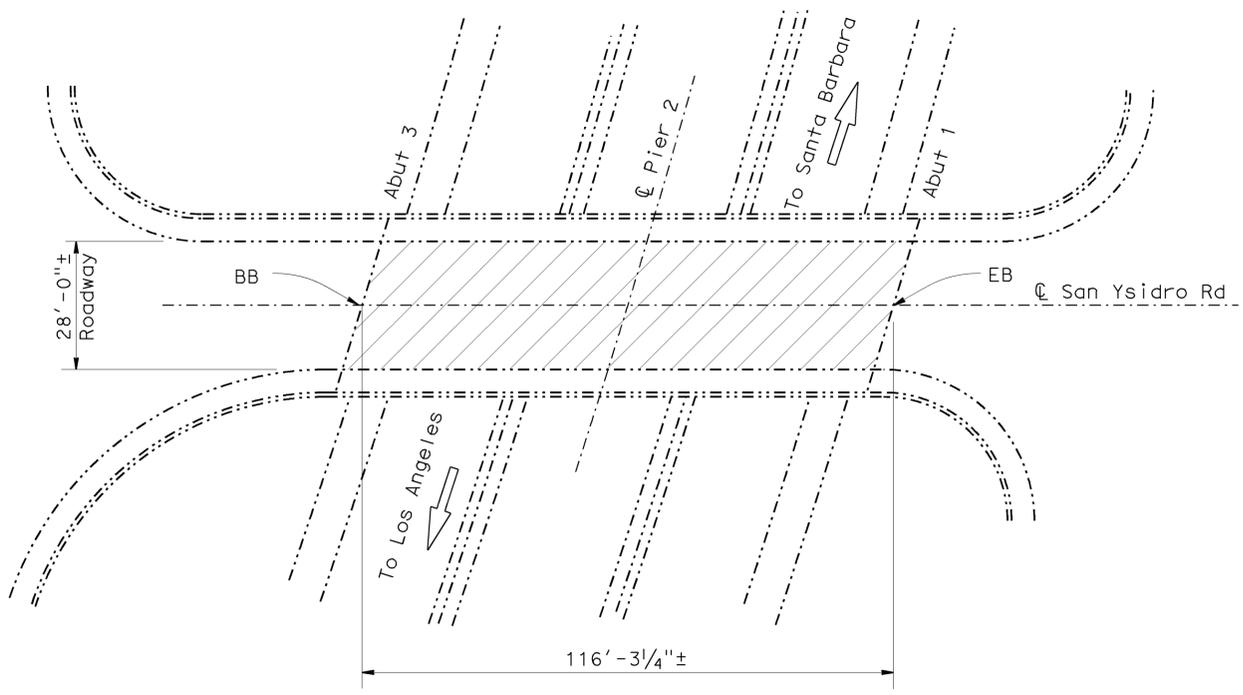
12-30-14
 REGISTERED CIVIL ENGINEER DATE
 2-17-15
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER
 BRIAN P. NGUYEN
 No. 68270
 Exp. 9-30-15
 CIVIL
 STATE OF CALIFORNIA

NOTES:

----- Indicates existing.

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



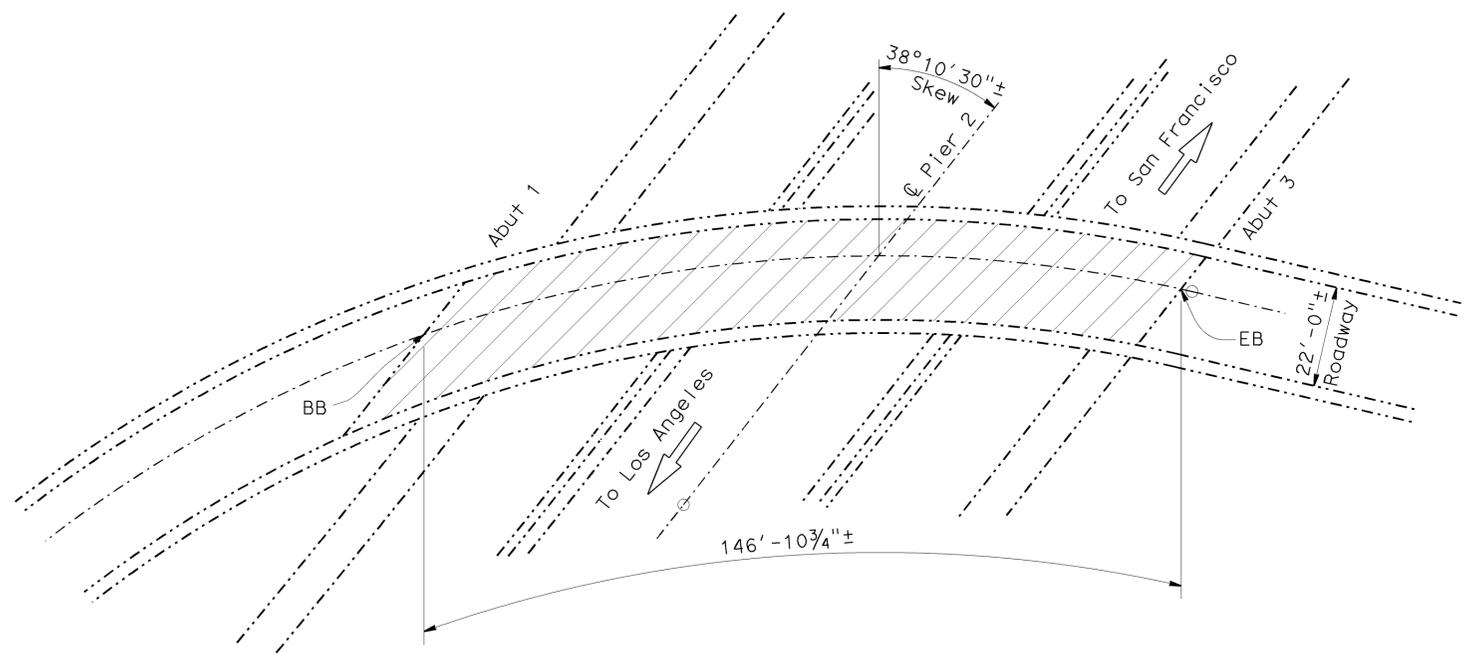
SAN YSIDRO ROAD OC
 BR. NO. 51-0185, RTE 101, PM 10.02
 1"=20'



SAN YSIDRO ROAD OC BRIDGE NO. 51-0185

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	3,256	SQFT
TREAT BRIDGE DECK	3,256	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	36	GAL



OLIVE MILL ROAD ON-RAMP SEPARATION
 BR. NO. 51-0186K, RTE 101, PM 10.49
 1"=20'



OLIVE MILL ROAD ON-RAMP SEPARATION BRIDGE NO. 51-0186K

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	3,232 SQFT
TREAT BRIDGE DECK	3,232 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	36 GAL

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

 12-30-14 DESIGN ENGINEER	DESIGN	BY Brian Nguyen	CHECKED Timothy Powell	LAYOUT	BY Trung Lam	CHECKED Brian Nguyen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTE 101 & 154 BRIDGES GENERAL PLAN NO. 3
	DETAILS	BY Trung Lam	CHECKED Timothy Powell	SPECIFICATIONS	BY Jim Corrado	CHECKED Jim Corrado			POST MILE	
QUANTITIES	BY Brian Nguyen	CHECKED Timothy Powell						VARIES		

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)

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

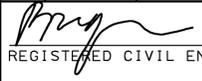
UNIT: 3488
 PROJECT NUMBER & PHASE: 0513000137 1
 CONTRACT NUMBER: 05-1F3901

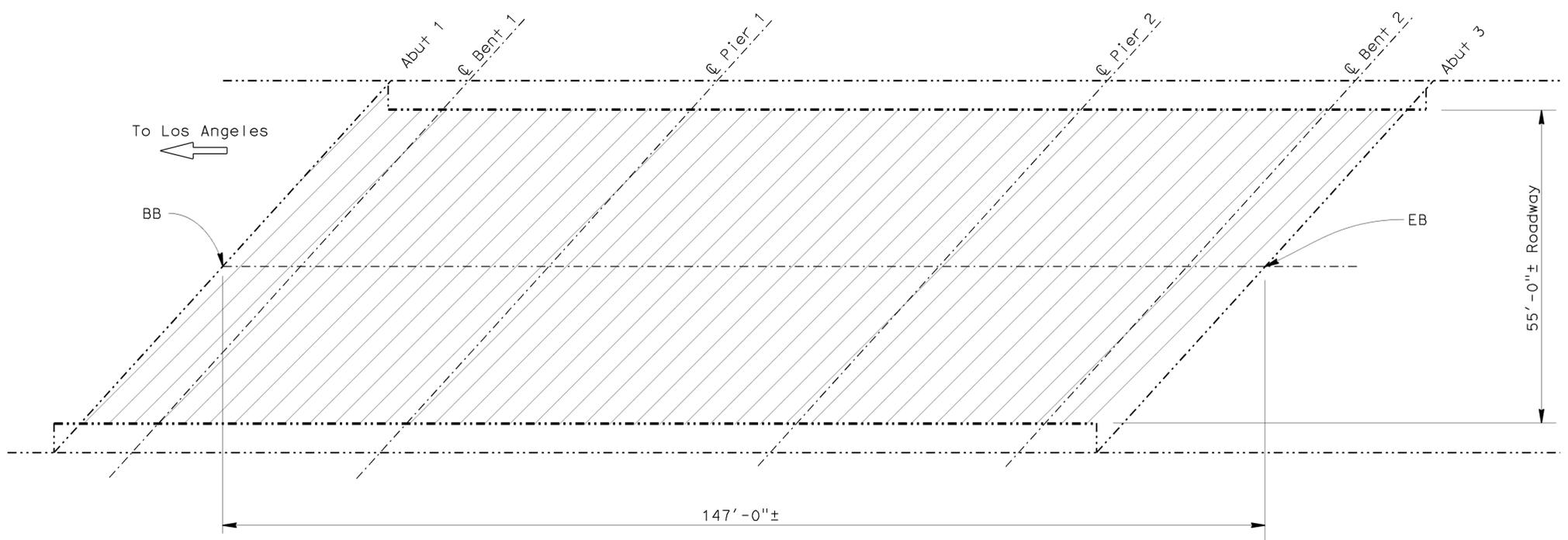
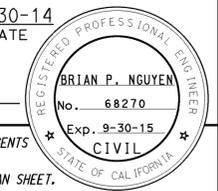
DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
7-31-14 10-31-14 12-12-14	3	6

FILE => 05-1f3901_03_gp3.dgn

USERNAME => s115755 DATE PLOTTED => 03-FEB-2015 TIME PLOTTED => 16:25

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
05	SB	101,154	Var	18	20
 REGISTERED CIVIL ENGINEER			12-30-14	DATE	
PLANS APPROVAL DATE 2-17-15					
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.					



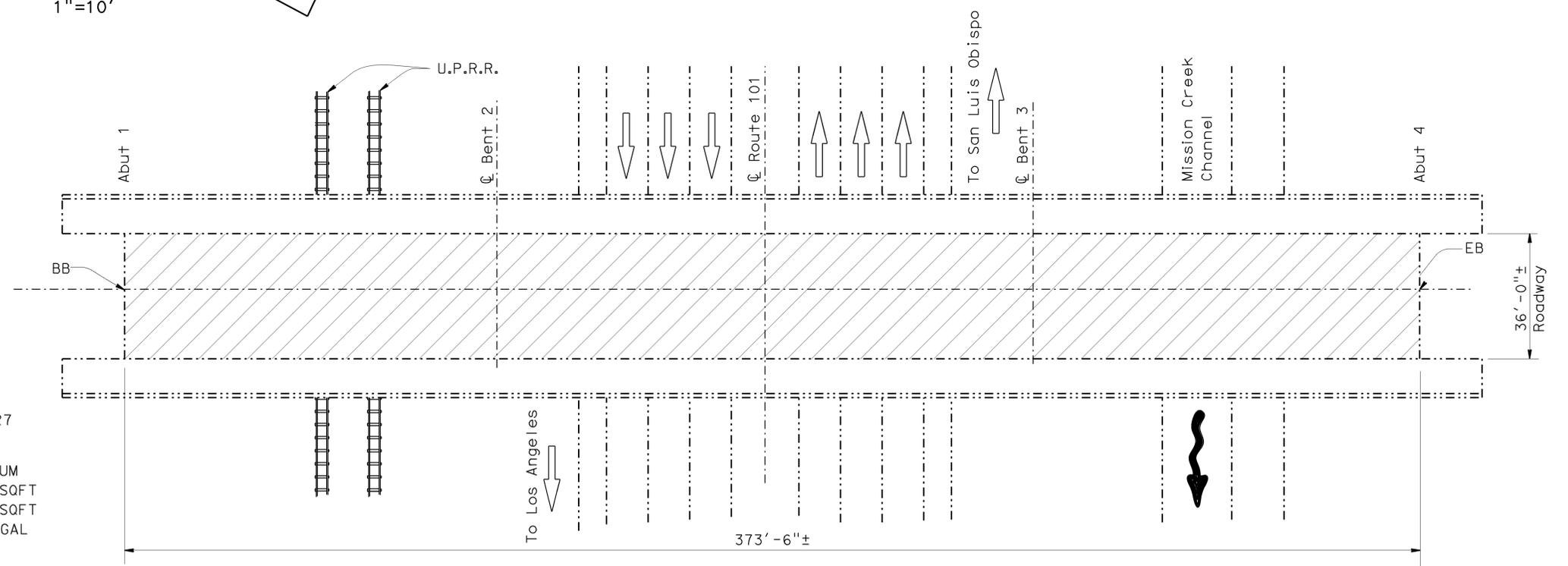
CABRILLO BLVD UC
 BR. NO. 51-0086L, RTE 101, PM 11.43
 1"=10'



CABRILLO BLVD UC BRIDGE NO. 51-0086L

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	8,085	SQFT
TREAT BRIDGE DECK	8,085	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	90	GAL



MICHELTORENA ST. VIADUCT BRIDGE NO. 51-0327

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	13,446 SQFT
TREAT BRIDGE DECK	13,446 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	149 GAL

MICHELTORENA ST. VIADUCT
 BR. NO. 51-0327, RTE 101, PM R15.26
 1"=20'

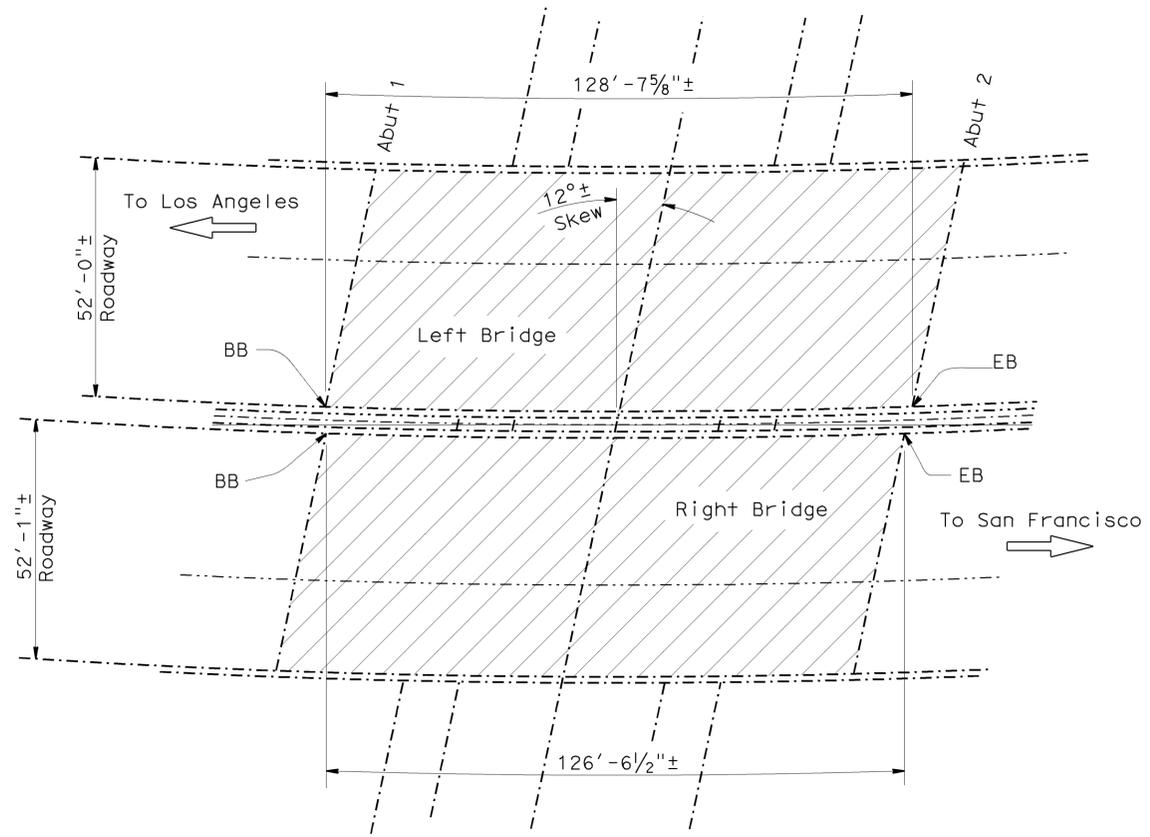
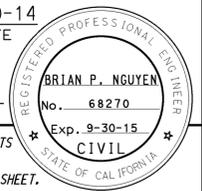


NOTE:
 THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

- NOTES:
- - - - - Indicates existing.
 -  Indicates limits of prepare concrete bridge deck surface and treat bridge deck with high molecular weight methacrylate.

 12-30-14 DESIGN ENGINEER	DESIGN BY Brian Nguyen	CHECKED Timothy Powell	LAYOUT BY Trung Lam	CHECKED Brian Nguyen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO. VARIOUS	ROUTE 101 & 154 BRIDGES GENERAL PLAN NO. 4						
	DETAILS BY Trung Lam	CHECKED Timothy Powell	BY Jim Corrado	PLANS AND SPECIFICATIONS COMPARED Jim Corrado			POST MILE VARIES							
QUANTITIES BY Brian Nguyen	CHECKED Timothy Powell				UNIT: 3488	PROJECT NUMBER & PHASE: 0513000137 1	CONTRACT NUMBER: 05-1F3901	REVISION DATES						
STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)					ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	DISREGARD PRINTS BEARING EARLIER REVISION DATES	<table border="1"> <tr> <td>7-31-14</td> <td>8-25-14</td> <td>10-31-14</td> <td>12-12-14</td> <td>2-30-14</td> </tr> </table>	7-31-14	8-25-14	10-31-14	12-12-14	2-30-14	SHEET 4 OF 6
7-31-14	8-25-14	10-31-14	12-12-14	2-30-14										

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
05	SB	101,154	Var	19	20
 REGISTERED CIVIL ENGINEER			12-30-14	DATE	
PLANS APPROVAL DATE 2-17-15					
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.					



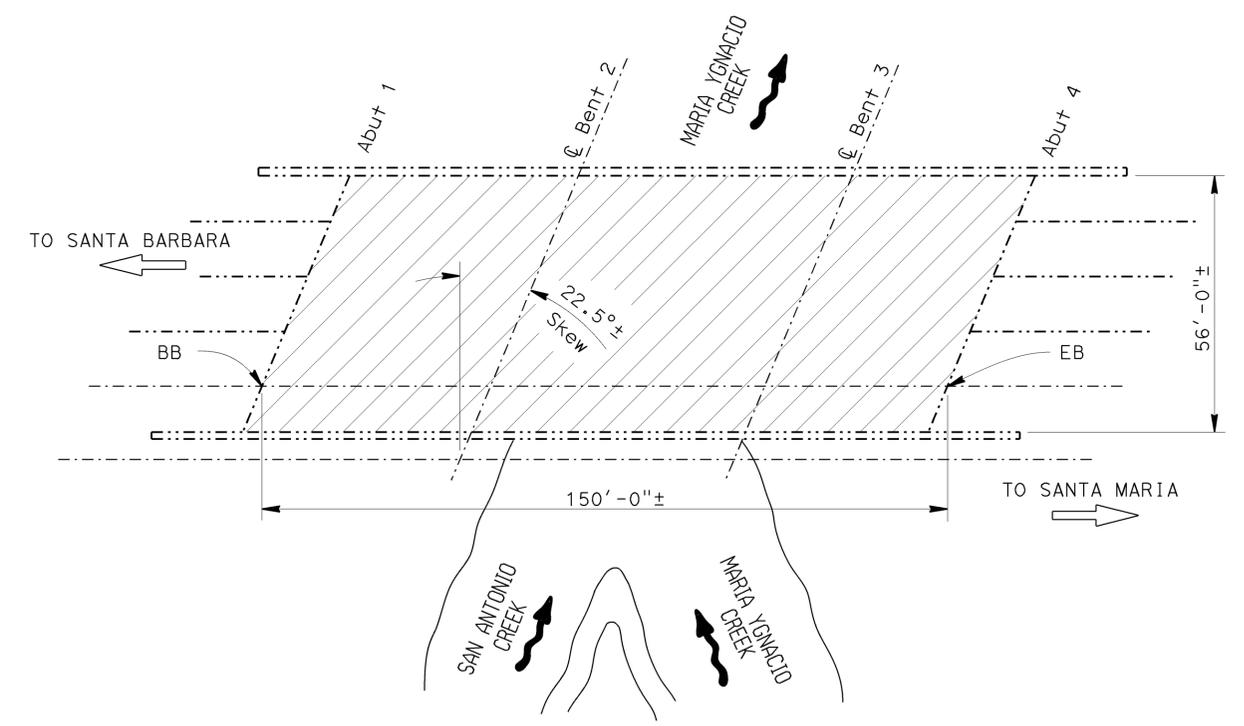
MISSION STREET UC
 BR. NO. 51-0210L/R, RTE 101, PM R15.73
 1"=20'

MISSION STREET UC BRIDGE NO. 51-0210L/R

QUANTITIES		
PREPARE CONCRETE BRIDGE DECK SURFACE	13,280	SQFT
TREAT BRIDGE DECK	13,280	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	148	GAL

NOTES:

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



MARIA YGNACIO CREEK
 BR. NO. 51-0162L, RTE 101, PM 20.95
 1"=20'

MARIA YGNACIO CREEK BRIDGE NO. 51-0162L

QUANTITIES		
PREPARE CONCRETE BRIDGE DECK SURFACE	8,400	SQFT
TREAT BRIDGE DECK	8,400	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	93	GAL

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

DESIGN	BY Brian Nguyen	CHECKED Timothy Powell	LAYOUT	BY Trung Lam	CHECKED Brian Nguyen
DETAILS	BY Trung Lam	CHECKED Timothy Powell	SPECIFICATIONS	BY Jim Corrado	PLANS AND SPECIFICATIONS COMPARED Jim Corrado
QUANTITIES	BY Brian Nguyen	CHECKED Timothy Powell			

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

ROUTE 101 & 154 BRIDGES
 GENERAL PLAN NO. 5

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
05	SB	101,154	Var	20	20

 12-30-14
 REGISTERED CIVIL ENGINEER DATE

2-17-15
 PLANS APPROVAL DATE

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

REGISTERED PROFESSIONAL ENGINEER
 BRIAN P. NGUYEN
 No. 68270
 Exp. 9-30-15
 CIVIL
 STATE OF CALIFORNIA

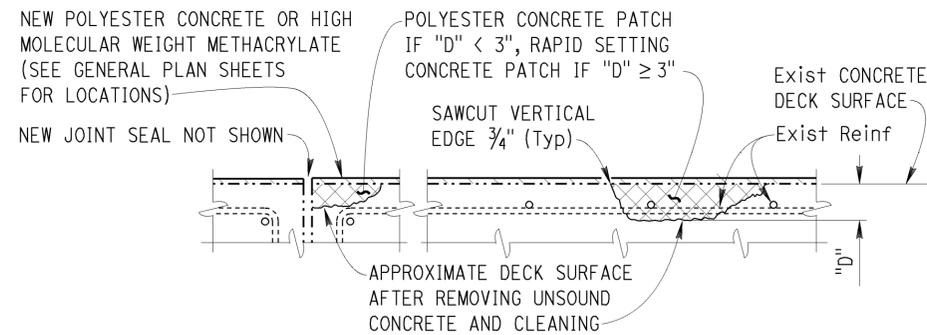
JOINT SEAL TABLE							
BRIDGE NAME	BRIDGE NUMBER	JOINT LOCATION		MINIMUM MR (INCHES)	Approx LENGTH (FEET)	EXISTING WATERSTOP	APPROXIMATE DEPTH TO CLEAN EXPANSION JOINT (INCHES)
		Abut 1	BB				
EVANS AVE UC	51-0226L	Abut 1	BB	1/2	25	NO	12
		Abut 4	EB	1/2	25	NO	12

LEGEND:

BB = PAVING NOTCH AT BEGINNING OF BRIDGE
 EB = PAVING NOTCH AT END OF BRIDGE

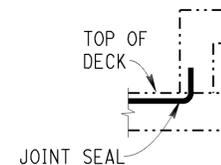
DECK REPAIR TABLE			
REMOVE UNSOUND CONCRETE AND PLACE RAPID SETTING CONCRETE PATCHES			
BRIDGE NAME	BRIDGE NUMBER	APPROXIMATE AREA DAMAGED (PERCENT)	APPROXIMATE DEPTH (INCHES)
EVANS AVE UC	51-0226L	5	3

LOCATIONS TO BE DETERMINED BY THE ENGINEER.
 FOR DETAILS SEE "JOINT AND DECK REPAIR DETAIL".



JOINT AND DECK REPAIR DETAIL

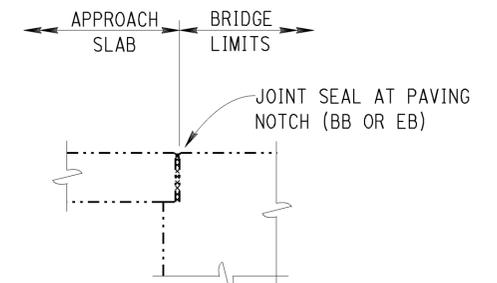
LOCATIONS TO BE DETERMINED BY THE ENGINEER.
 REINFORCEMENT MAY BE ENCOUNTERED DURING DECK CONCRETE REMOVAL.
 NO SCALE



BARRIER RAIL

JOINT SEAL AT LOW SIDE OF DECK

DETAILS SHOWN FOR ILLUSTRATION PURPOSES ONLY. FOR USE ONLY WHERE DECK JOINT MATCHES THE BARRIER RAIL JOINT.
 NO SCALE



DIAPHRAGM ABUTMENT

JOINT SEAL LOCATION

NO SCALE

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

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)	DESIGN	BY Brian Nguyen	CHECKED Timothy Powell	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTE 101 & 154 BRIDGES		
	DETAILS	BY Trung Lam	CHECKED Timothy Powell			VARIOUS			
	QUANTITIES	BY Brian Nguyen	CHECKED Timothy Powell			VARIES		MISCELLANEOUS DETAILS	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3				UNIT: 3488 PROJECT NUMBER & PHASE: 0513000137 1	CONTRACT NUMBER: 05-1F3901	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 6 OF 6