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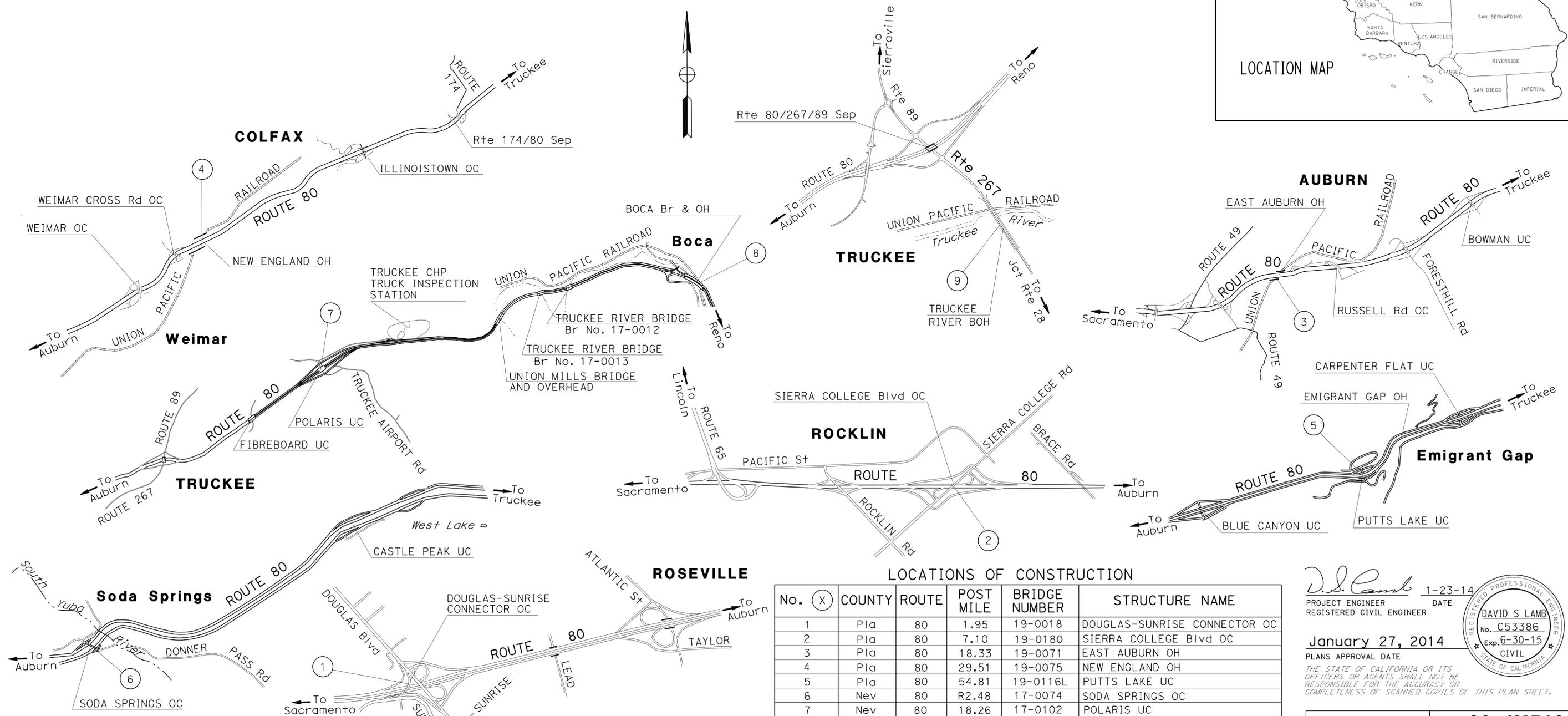
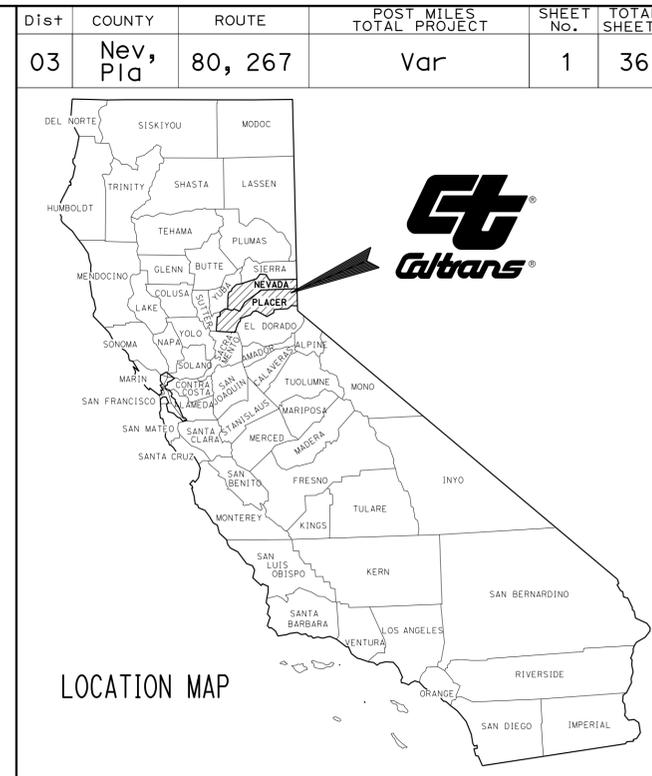
STRUCTURE PLANS

25-36 ROUTE 80 AND 267 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 NEVADA AND PLACER COUNTIES
AT VARIOUS LOCATIONS

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010



LOCATIONS OF CONSTRUCTION

No.	COUNTY	ROUTE	POST MILE	BRIDGE NUMBER	STRUCTURE NAME
1	Plc	80	1.95	19-0018	DOUGLAS-SUNRISE CONNECTOR OC
2	Plc	80	7.10	19-0180	SIERRA COLLEGE Blvd OC
3	Plc	80	18.33	19-0071	EAST AUBURN OH
4	Plc	80	29.51	19-0075	NEW ENGLAND OH
5	Plc	80	54.81	19-0116L	PULLS LAKE UC
6	Nev	80	R2.48	17-0074	SODA SPRINGS OC
7	Nev	80	18.26	17-0102	POLARIS UC
8	Nev	80	22.41	17-0059R	BOCA BR & OH
9	Nev	267	M0.39	17-0098	TRUCKEE RIVER BOH

PROJECT ENGINEER
 REGISTERED CIVIL ENGINEER
 DATE 1-23-14
January 27, 2014
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

CONTRACT No.	03-4M7104
PROJECT ID	0313000027

PROJECT MANAGER
RONALD S. SYKES
 DESIGN ENGINEER
RONALD S. SYKES

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
03	NeV, Pla	80,267	Var	3	36

Kris M. Albers 1-23-14
REGISTERED CIVIL ENGINEER DATE

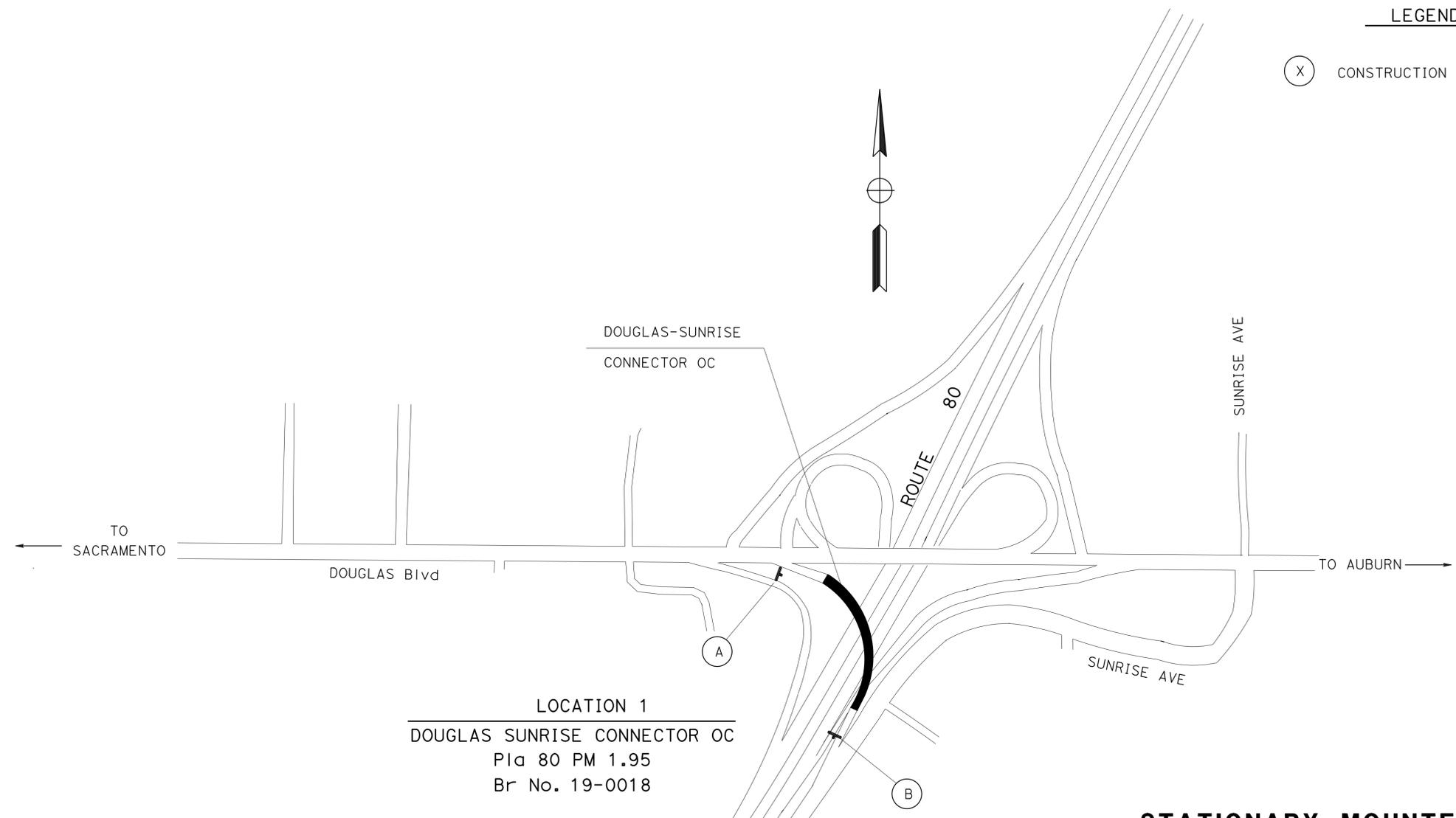
1-27-14
PLANS APPROVAL DATE

Kris M. Albers
No. 49986
Exp. 6-30-15
CIVIL
STATE OF CALIFORNIA

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LEGEND

(X) CONSTRUCTION AREA SIGN LETTER



STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN LETTER	SIGN CODE		PANEL SIZE	SIGN MESSAGE	NUMBER OF POST AND SIZE	NUMBER OF SIGNS
	FEDERAL	CALIFORNIA				
A	W20-1	C23	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	10
B	G20-2	C14	36" x 18"	END ROAD WORK	1 - 4" x 4"	9
C		C14	48" x 24"	END ROAD WORK	1 - 4" x 6"	4
D	W20-1	C23	60" x 60"	ROAD WORK AHEAD	2 - 4" x 6"	5

NOTES:

1. EXACT SIGN LOCATION TO BE DETERMINED BY THE ENGINEER.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
FUNCTIONAL SUPERVISOR: SERGIO ACEVES
DESIGNED BY: KRIS ALBERS
CHECKED BY: CHUCK COOK
REVISOR: KRIS ALBERS
DATE: 7/2/2010

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
03	Nev, Pla	80,267	Var	4	36

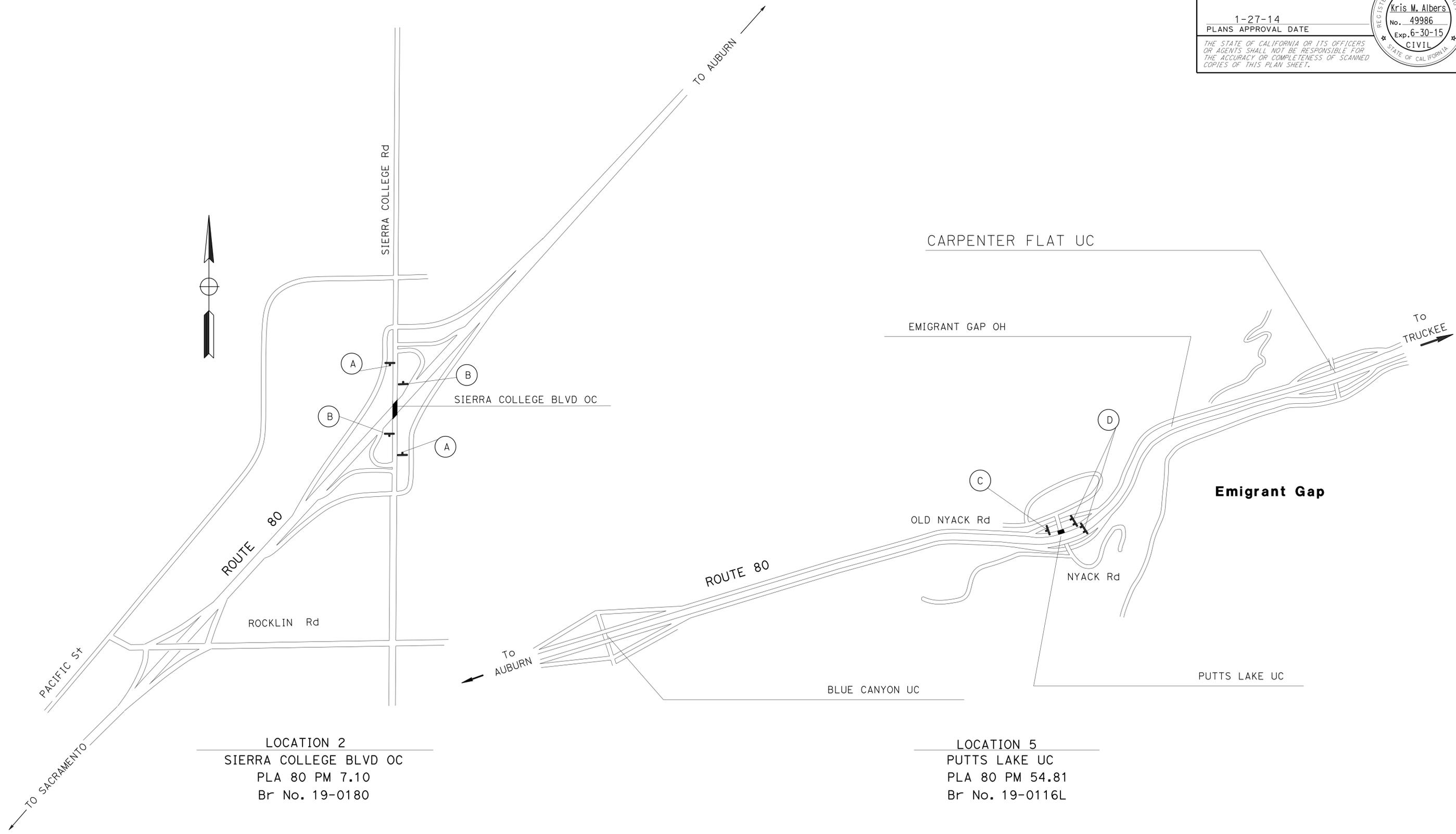
Kris M. Albers 1-23-14
REGISTERED CIVIL ENGINEER DATE

1-27-14
PLANS APPROVAL DATE

Kris M. Albers
No. 49986
Exp. 6-30-15
CIVIL

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	DESIGNED BY	REVISOR
Caltrans	SERGIO ACEVES	CHUCK COOK	KRIS ALBERS
TRAFFIC			



LOCATION 2
SIERRA COLLEGE BLVD OC
PLA 80 PM 7.10
Br No. 19-0180

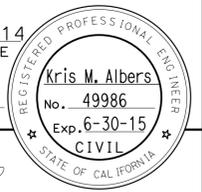
LOCATION 5
PUTTS LAKE UC
PLA 80 PM 54.81
Br No. 19-0116L

CONSTRUCTION AREA SIGNS
NO SCALE
CS-2

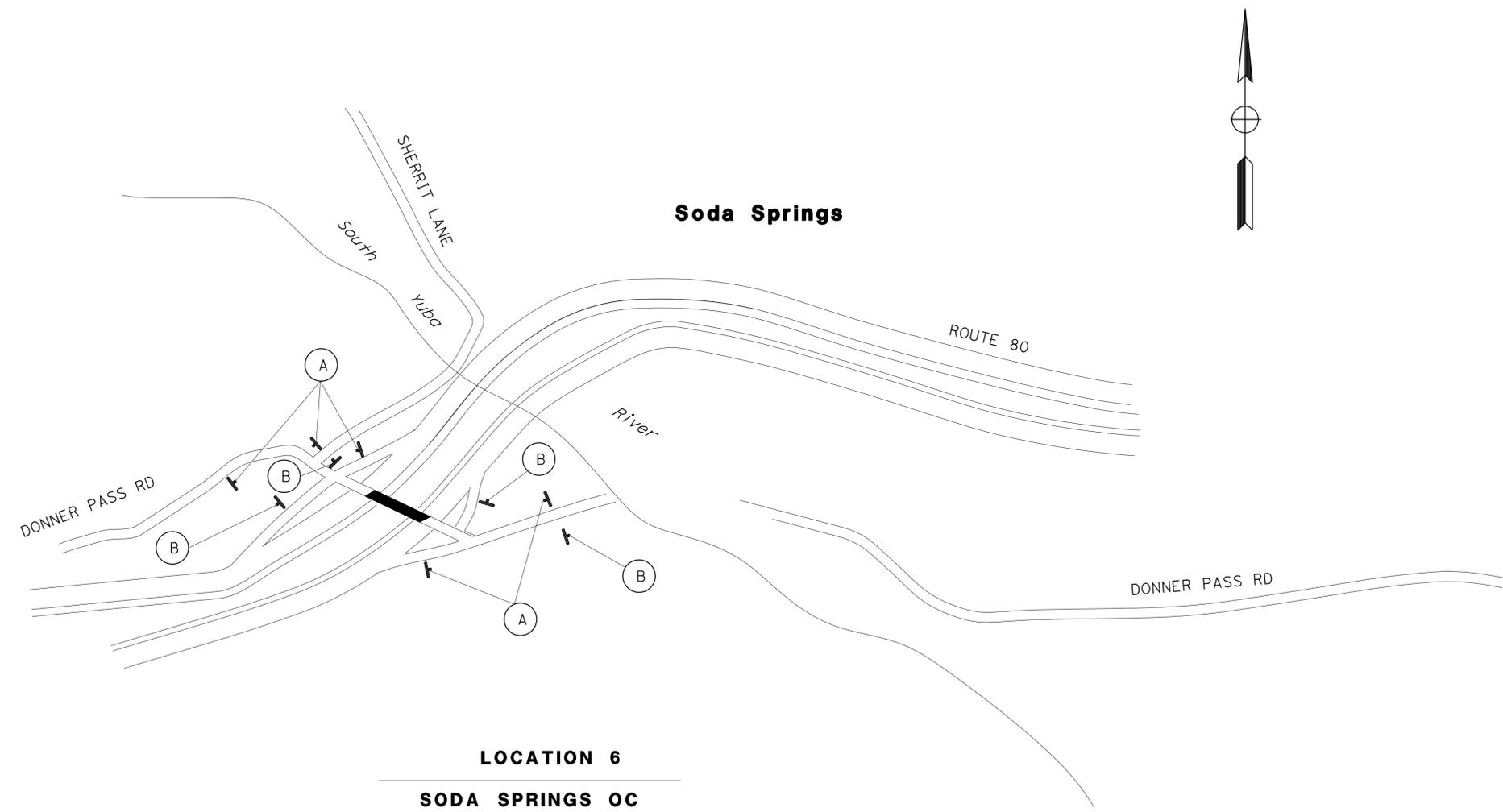
APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

LAST REVISION | DATE PLOTTED => 20-FEB-2014 11-07-13 | TIME PLOTTED => 11:20

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	NeV, Pla	80,267	Var	5	36
<i>Kris M. Albers</i> 1-23-14 REGISTERED CIVIL ENGINEER DATE					
1-27-14 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>					



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR	DATE
Caltrans	SERGIO ACEVES	CHECKED BY	KRIS ALBERS	
TRAFFIC			CHUCK COOK	



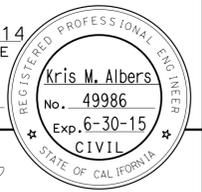
LOCATION 6
SODA SPRINGS OC
NEV 80 PM 2.48
Br No. 17-0074

CONSTRUCTION AREA SIGNS
 NO SCALE
CS-3

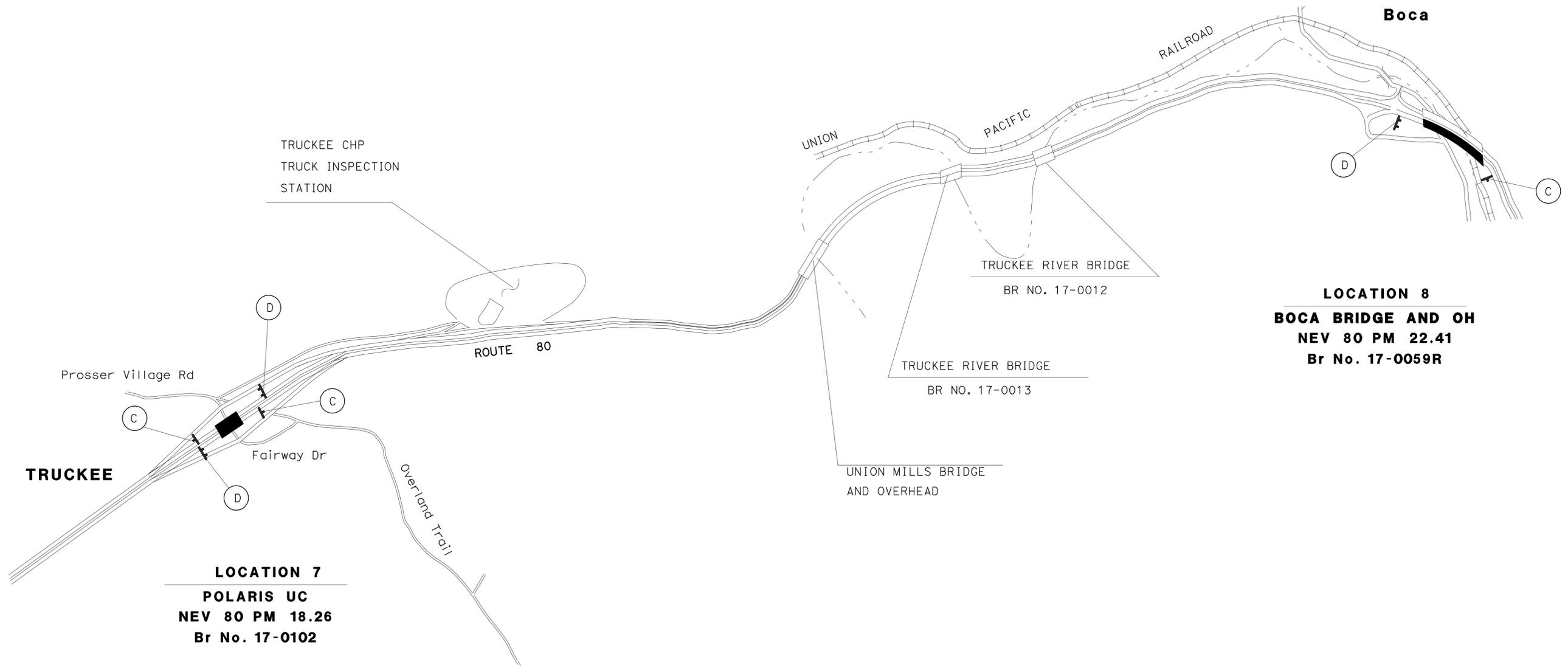
APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

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 11-07-13 | TIME PLOTTED => 11:20

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Nev, Pla	80,267	Var	6	36
<i>Kris M. Albers</i> 1-23-14 REGISTERED CIVIL ENGINEER DATE					
1-27-14 PLANS APPROVAL DATE					
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	REVISOR	DATE
Caltrans	TRAFFIC	CRK ALBERS	7/2/2010
		CHUCK COOK	
	DESIGNED BY	CHECKED BY	
	SERGIO ACEVES		



LOCATION 7
POLARIS UC
NEV 80 PM 18.26
Br No. 17-0102

LOCATION 8
BOCA BRIDGE AND OH
NEV 80 PM 22.41
Br No. 17-0059R

CONSTRUCTION AREA SIGNS
 NO SCALE
CS-4

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LAST REVISION DATE PLOTTED => 20-FEB-2014 11-07-13 TIME PLOTTED => 11:20

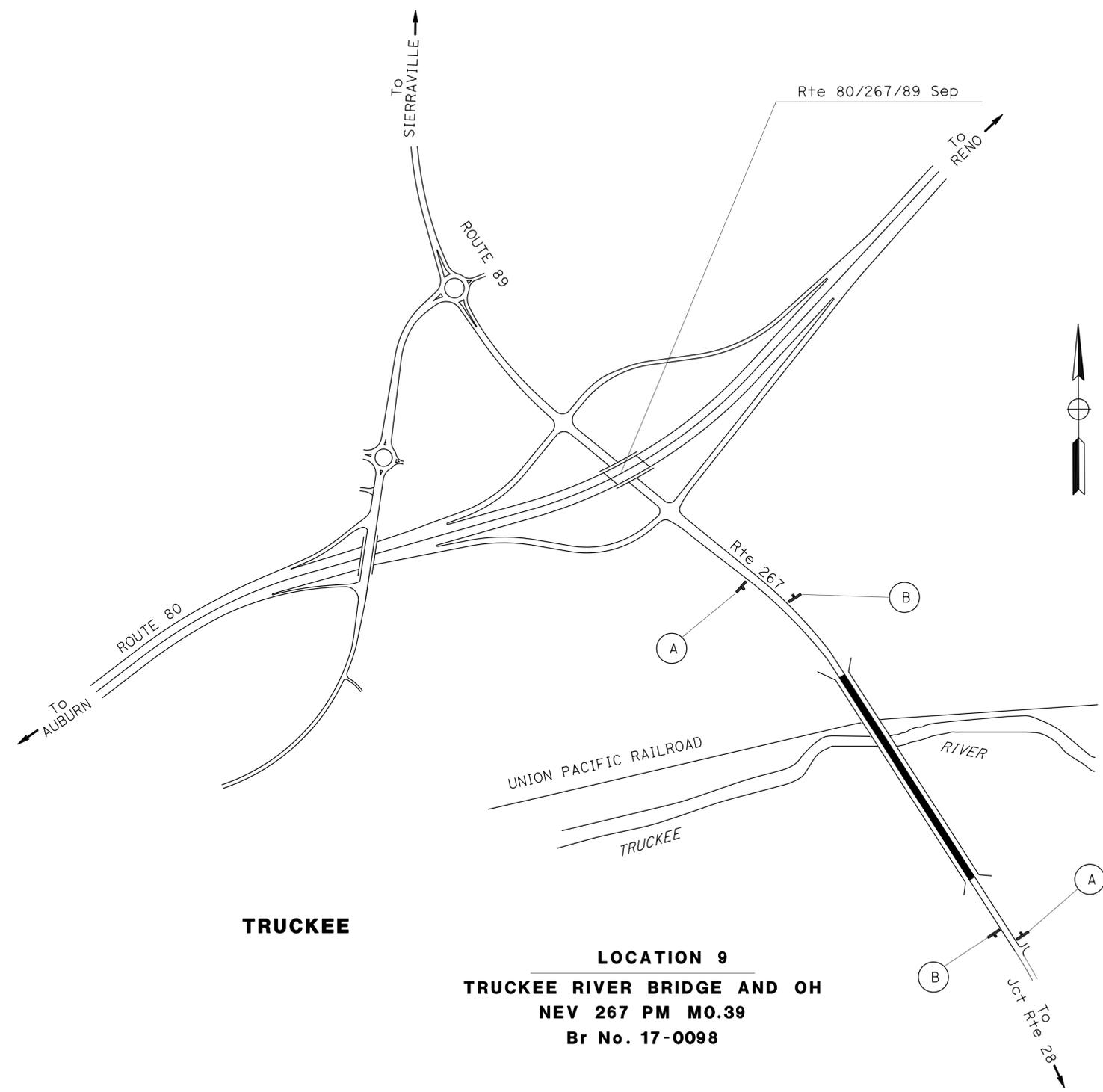
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Nev, Pla	80,267	Var	7	36

Kris M. Albers 1-23-14
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1-27-14
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Kris M. Albers
No. 49986
Exp. 6-30-15
CIVIL
STATE OF CALIFORNIA

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LOCATION 9
TRUCKEE RIVER BRIDGE AND OH
NEV 267 PM MO.39
Br No. 17-0098

CONSTRUCTION AREA SIGNS
NO SCALE
CS-5

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	REVISOR	DATE
Caltrans	SERGIO ACEVES	KRIS ALBERS	1-23-14
		CHUCK COOK	

USERNAME => s119538
DGN FILE => 03130000271a005.dgn

RELATIVE BORDER SCALE IS IN INCHES

UNIT 0390

PROJECT NUMBER & PHASE 0313000027

LAST REVISION | DATE PLOTTED => 20-FEB-2014
11-07-13 | TIME PLOTTED => 11:20

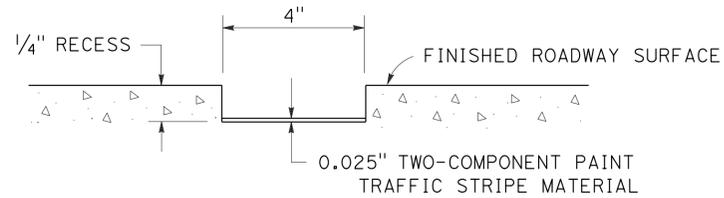
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Nev, Pla	80,267	Var	8	36

Kris M. Albers 1-23-14
REGISTERED CIVIL ENGINEER DATE

1-27-14
PLANS APPROVAL DATE

Kris M. Albers
No. 49986
Exp. 6-30-15
CIVIL

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DETAIL FOR RECESSED
TWO-COMPONENT PAINT TRAFFIC STRIPE
NO SCALE

REMOVE PERMANENT TAPE TRAFFIC STRIPE

LOCATION	DESCRIPTION	
	LEFT EDGE LINE	RIGHT EDGE LINE
	LF	LF
1	550	550
SUBTOTAL	550	550
TOTAL	1100	

REMOVE THERMOPLASTIC TRAFFIC STRIPE

LOCATION	DESCRIPTION		
	RIGHT EDGELINE	MEDIAN ISLAND	LANE LINE
	LF	LF	LF
2	690	1380	400
SUBTOTAL	690	1380	400
TOTAL	2470		

LOCATION	PAVEMENT MARKER (RETROREFLECTIVE)		
	TYPE D	TYPE H	TYPE G
	EA	EA	EA
1		24	
2	32		27
SUBTOTAL	32	24	27
TOTAL	83		

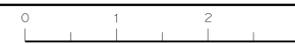
PAVEMENT DELINEATION QUANTITIES

LOCATION	4" PERMANENT TAPE TRAFFIC STRIPE			4" PERMANENT TAPE TRAFFIC STRIPE (BROKEN 17-7)	6" PERMANENT TAPE TRAFFIC STRIPE	4" TWO-COMPONENT PAINT TRAFFIC STRIPE		4" TWO COMPONENT PAINT TRAFFIC STRIPE (RECESSED)			4" TWO COMPONENT PAINT TRAFFIC STRIPE (RECESSED, BROKEN, 36-12)		
	DETAIL 25A	DETAIL 27B	DETAIL 29	DETAIL 9	DETAIL 39	DETAIL 21	DETAIL 27B	DETAIL 18	DETAIL 24	DETAIL 27B	DETAIL 5	DETAIL 11	DETAIL 18
	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF
1	550	550											
2			1380	1035	690								
5									172	172		172	
6						780	780						
7									310	310		310	
8									1150	1150		1150	
9							3100	532			1013		532
SUBTOTAL	550	550	1380	1035	690	780	3880	532	1632	1632	1013	1632	532
TOTAL	2480			1035	690	4660		3796			3177		

PAVEMENT DELINEATION QUANTITIES

PDQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
FUNCTIONAL SUPERVISOR: SERGIO ACEVES
REVISOR: KRIS ALBERS
CHECKER: CHUCK COOK
DESIGNER: [blank]
CHECKED BY: [blank]



	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
03	Nev, Pla	80,267	Var	9	36

Grace M. Tsushima
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

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TO ACCOMPANY PLANS DATED 1-27-14

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

TABLE A

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

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

TABLE B

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

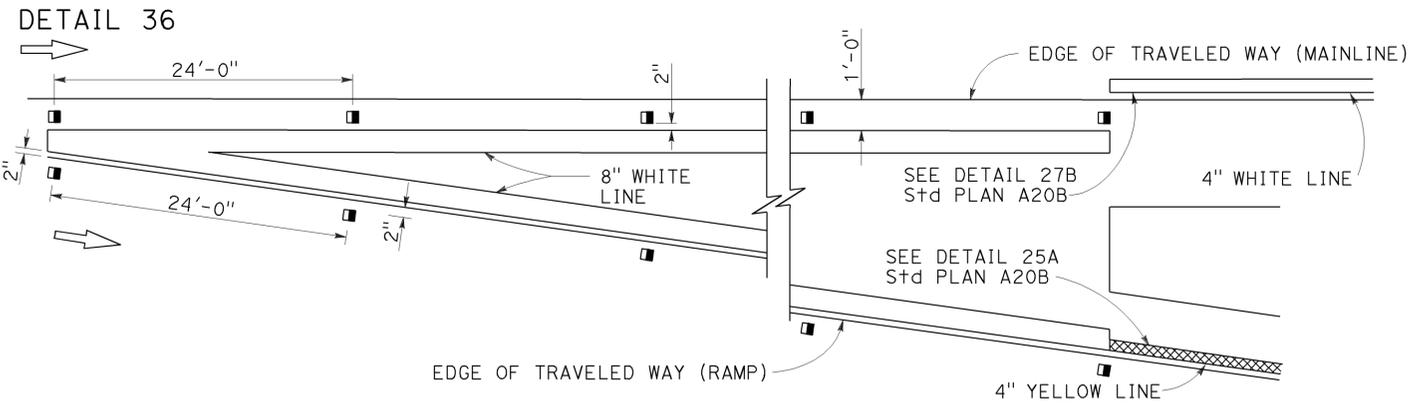
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**ABBREVIATIONS
(SHEET 2 OF 2)**

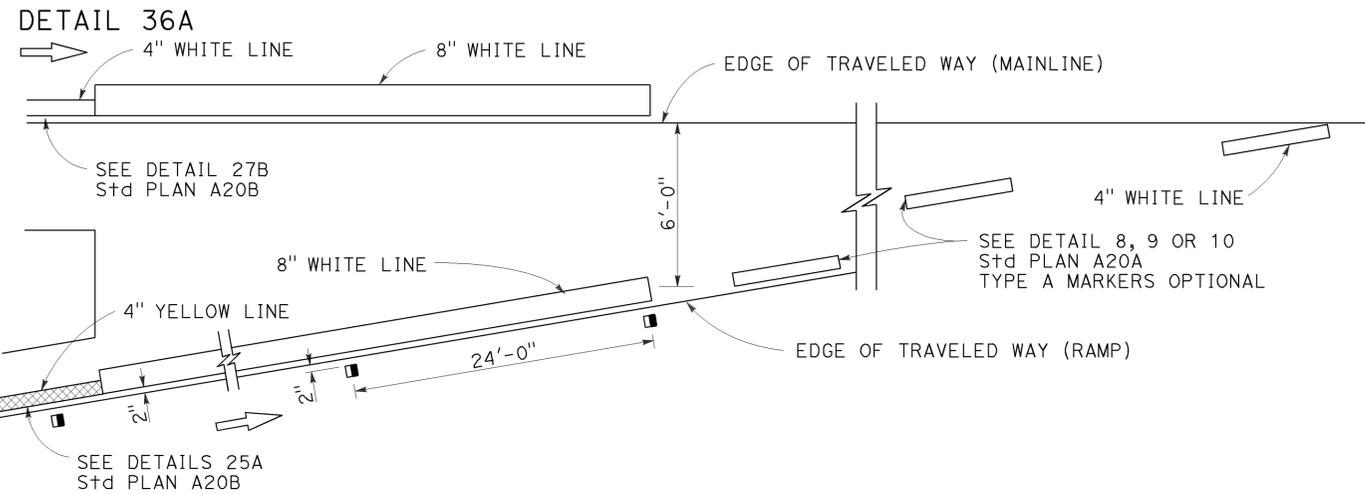
NO SCALE

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

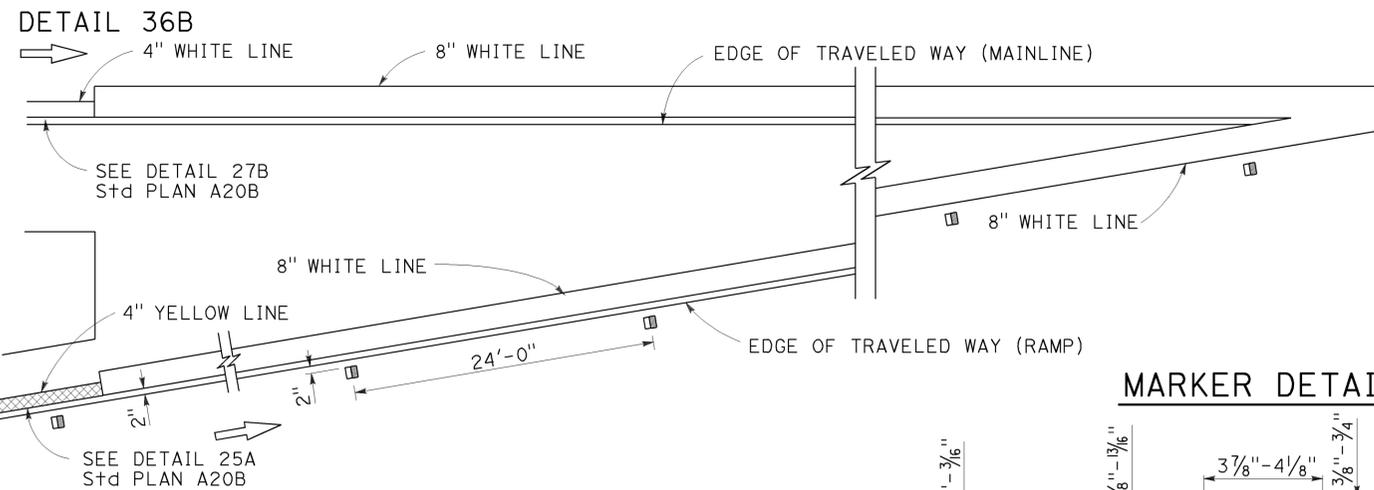
EXIT RAMP NEUTRAL AREA (GORE) TREATMENT



ENTRANCE RAMP NEUTRAL AREA (MERGE) TREATMENT



ENTRANCE RAMP NEUTRAL AREA (ACCELERATION LANE) TREATMENT

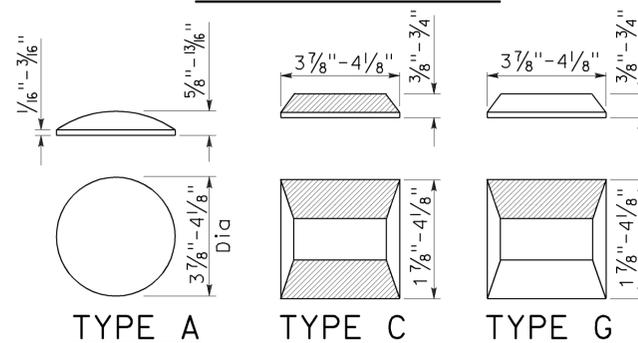


MARKER DETAILS

LEGEND:

MARKERS

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



RETROREFLECTIVE FACE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Nev, Pla	80,267	Var	10	36

Roberta L. McLaughlin
 REGISTERED CIVIL ENGINEER

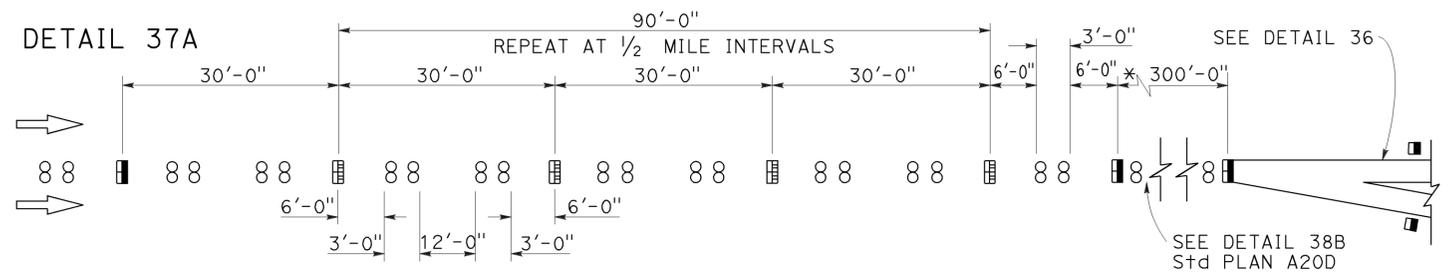
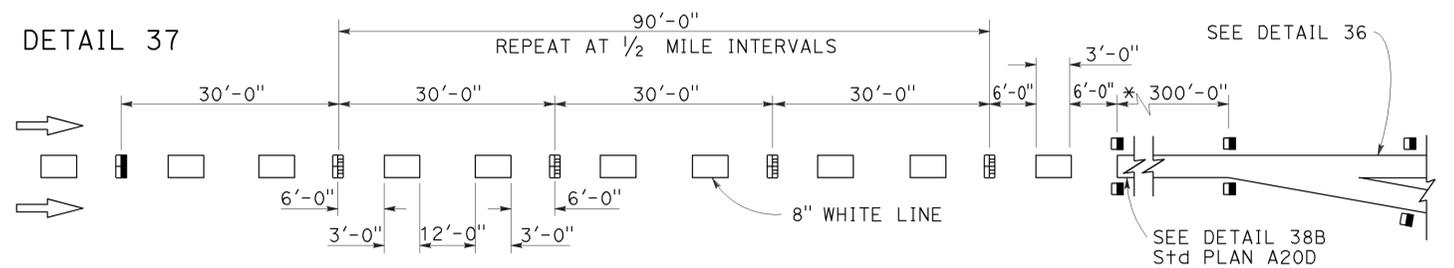
July 19, 2013
 PLANS APPROVAL DATE

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

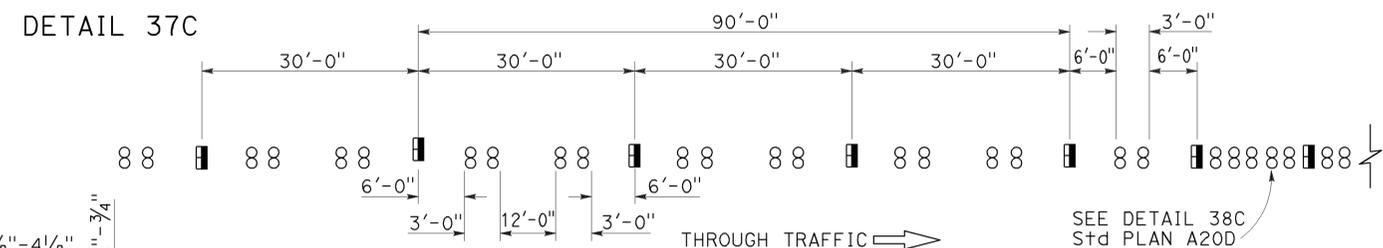
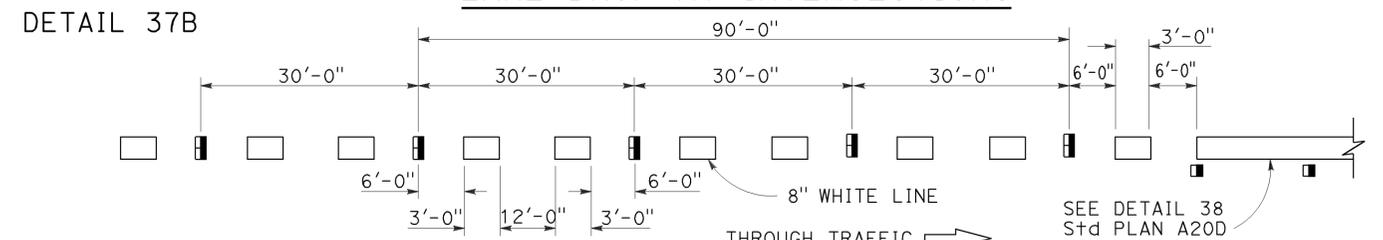
TO ACCOMPANY PLANS DATED 1-27-14

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

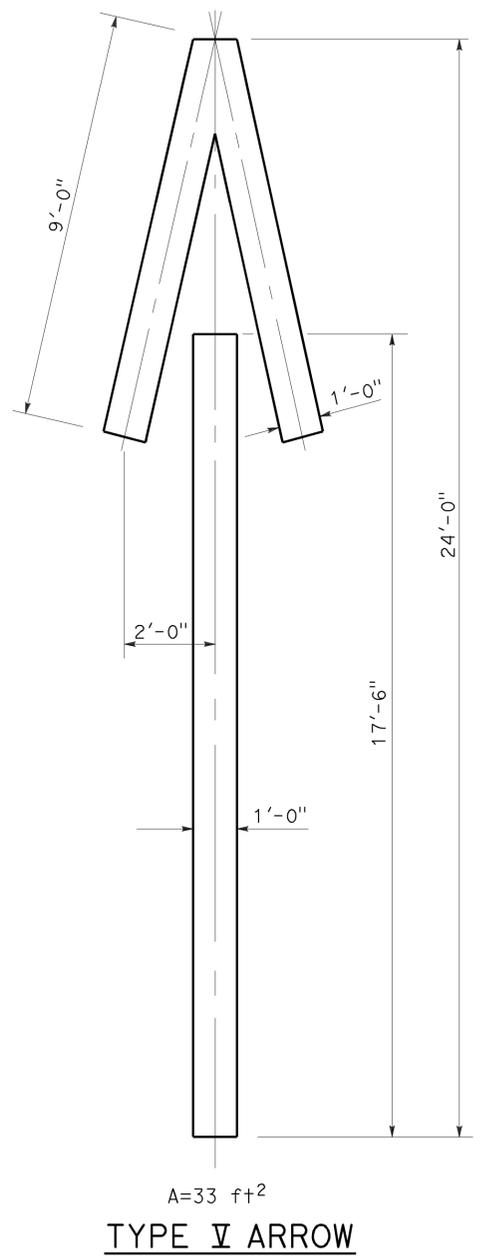
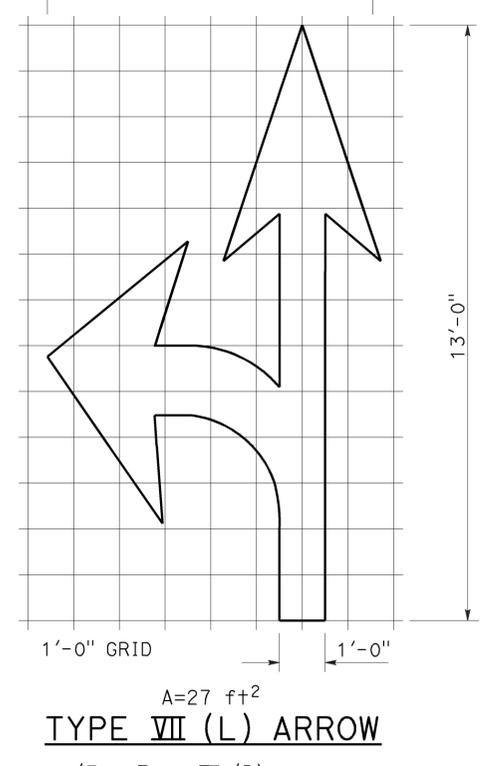
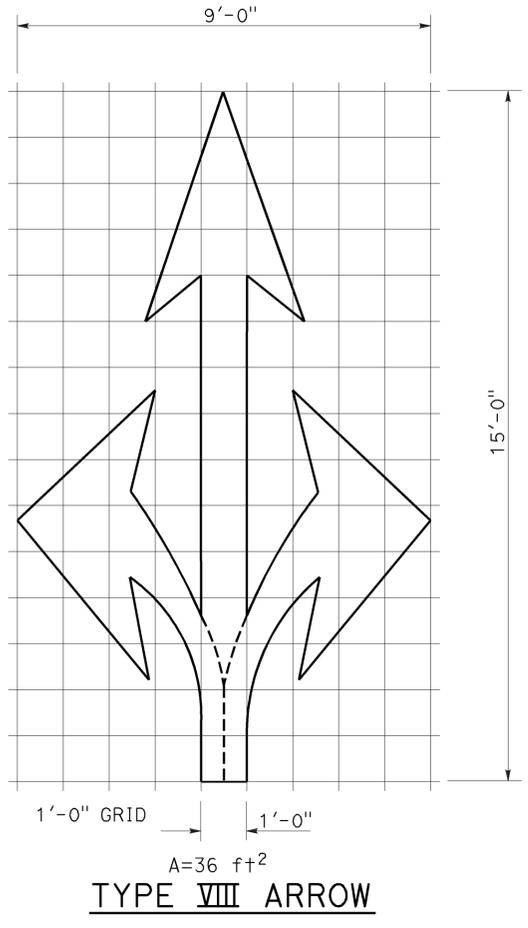
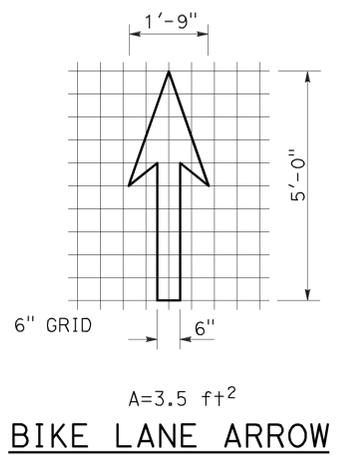
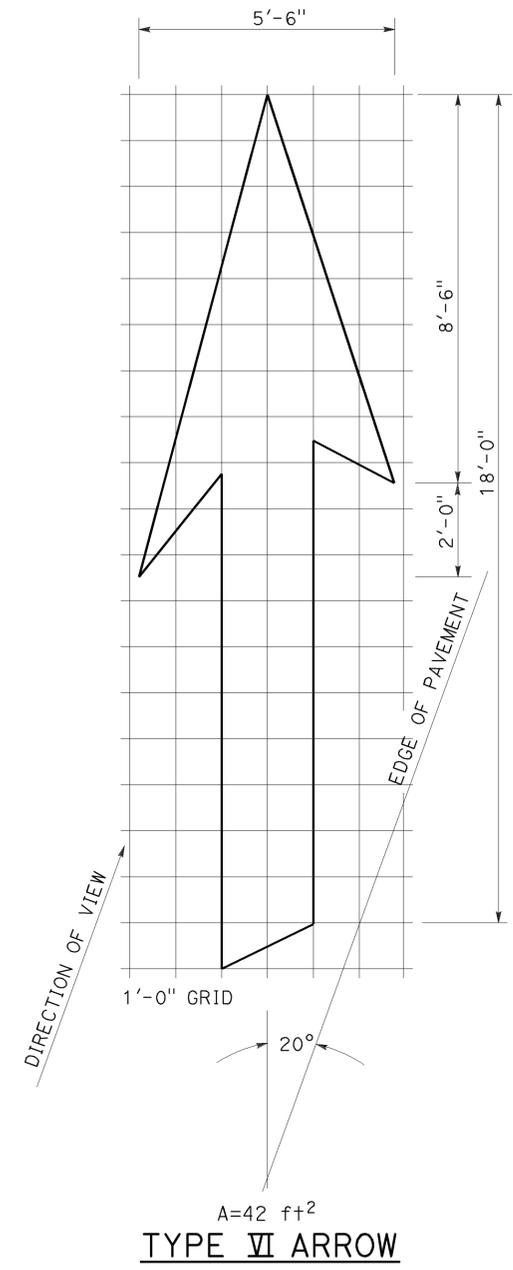
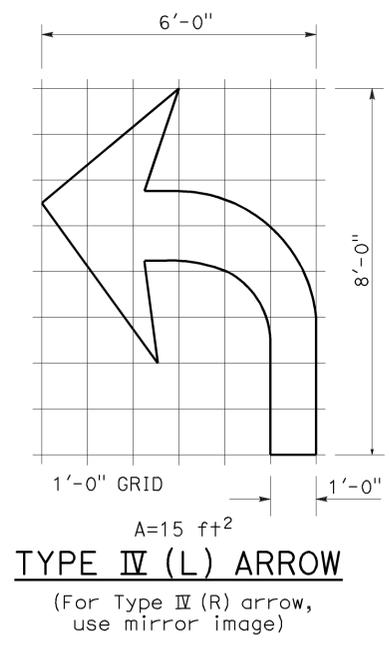
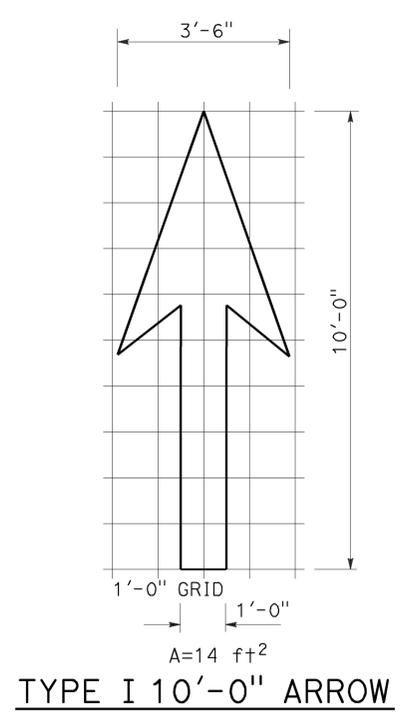
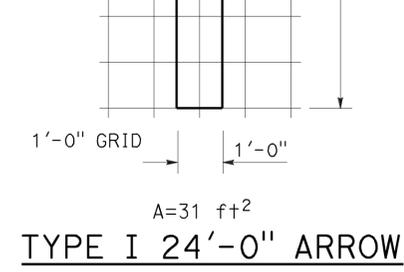
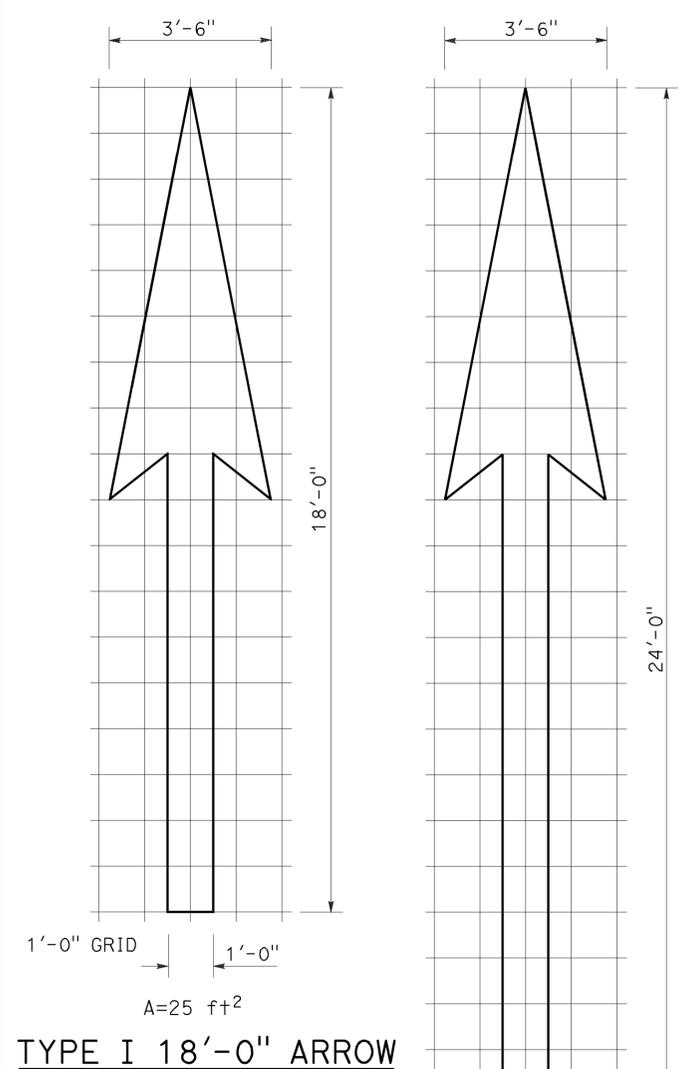
RSP A20C DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A20C DATED MAY 20, 2011 - PAGE 11 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A20C

2010 REVISED STANDARD PLAN RSP A20C

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Nev, Pla	80,267	Var	11	36
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 1-27-14

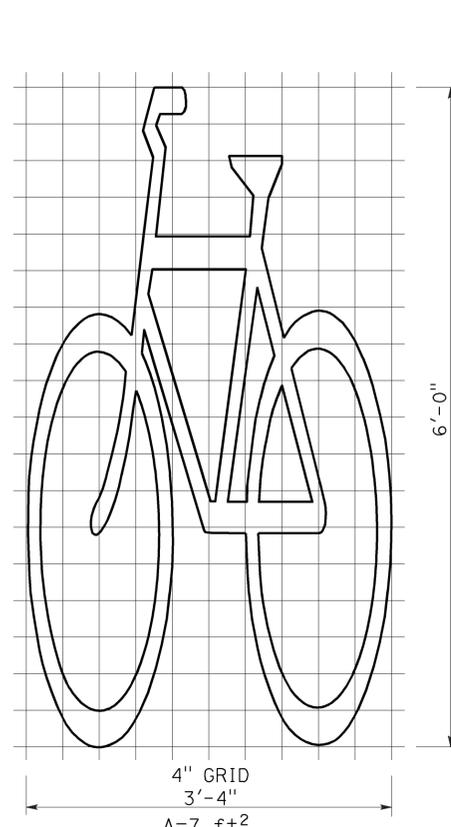


NOTE:
Minor variations in dimensions may be accepted by the Engineer.

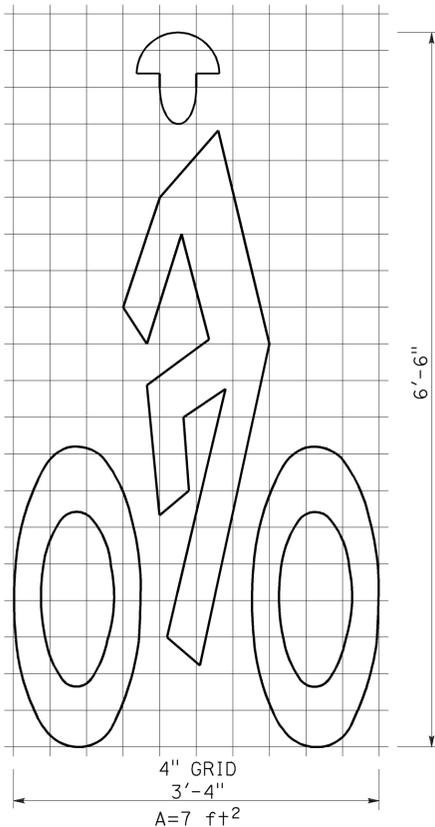
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**PAVEMENT MARKINGS
ARROWS**
NO SCALE

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

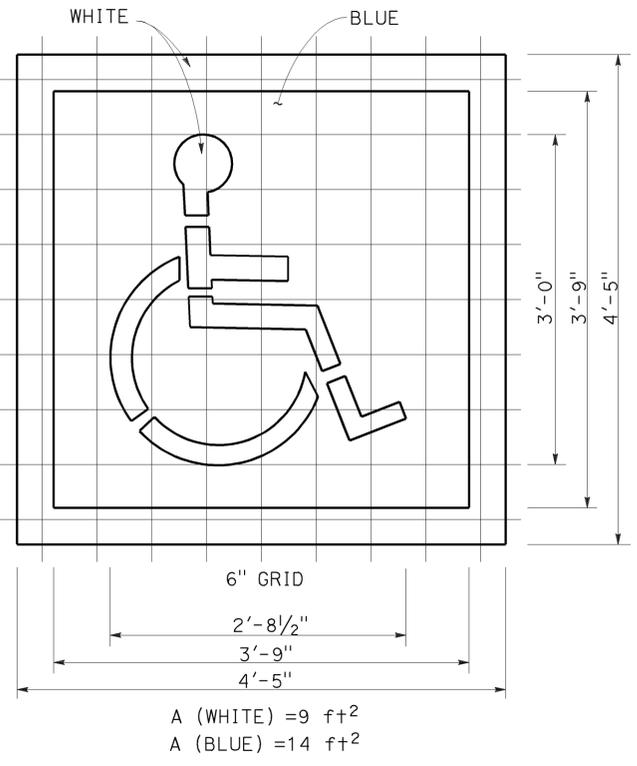
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Nev, Pla	80,267	Var	12	36
October 19, 2012 PLANS APPROVAL DATE					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					



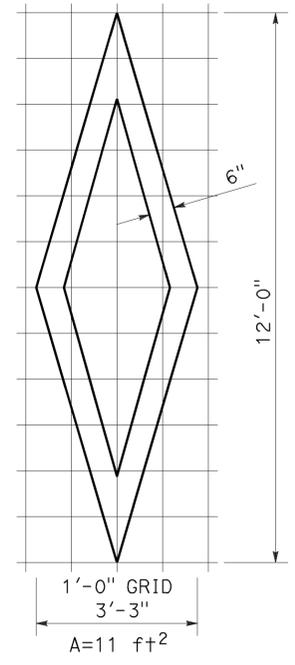
**BIKE LANE SYMBOL
WITHOUT PERSON**



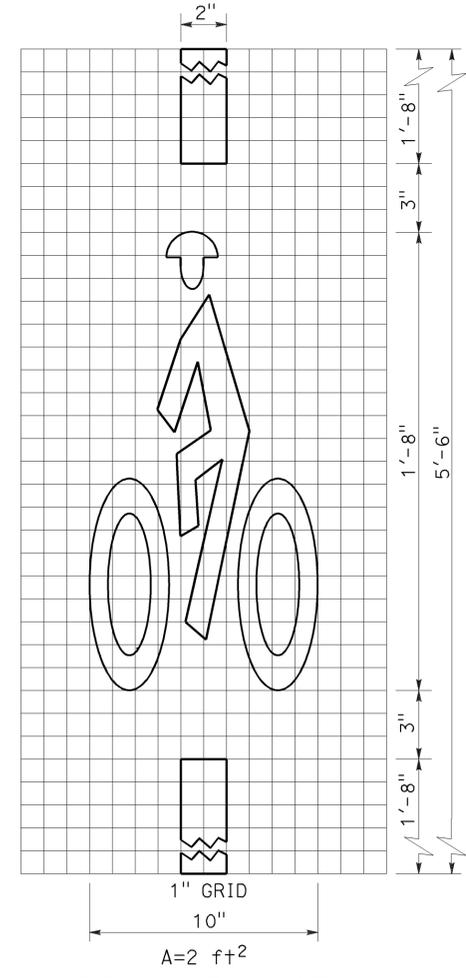
**BIKE LANE SYMBOL
WITH PERSON**



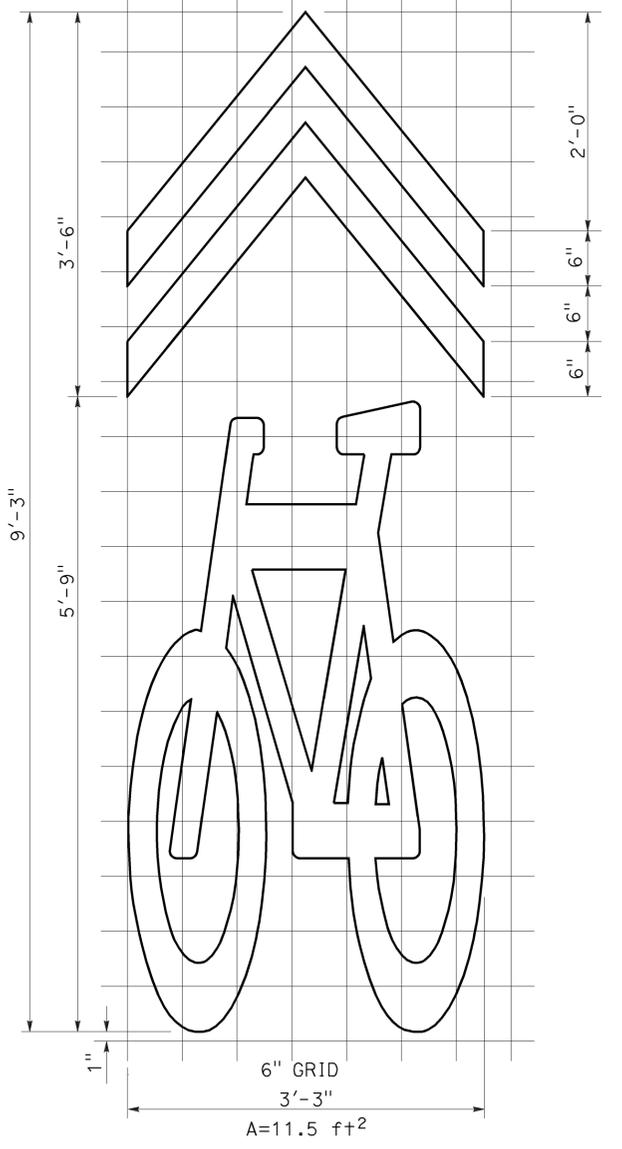
**INTERNATIONAL SYMBOL
OF ACCESSIBILITY (ISA) MARKING**



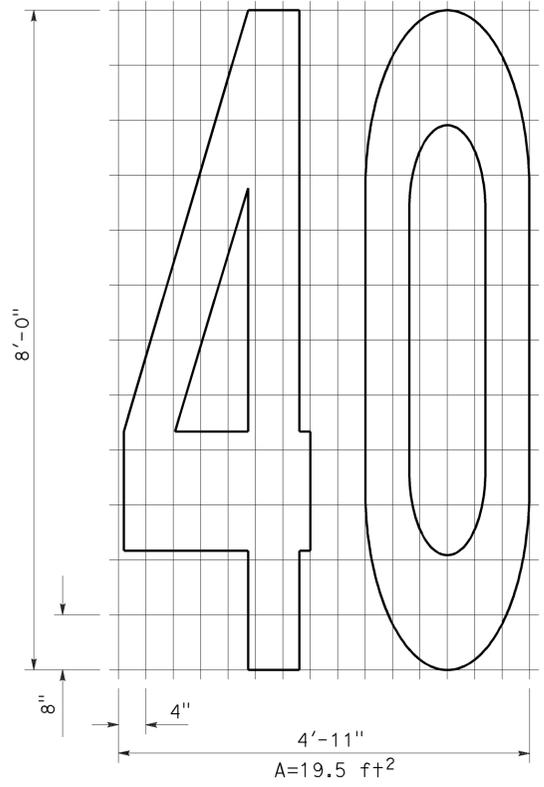
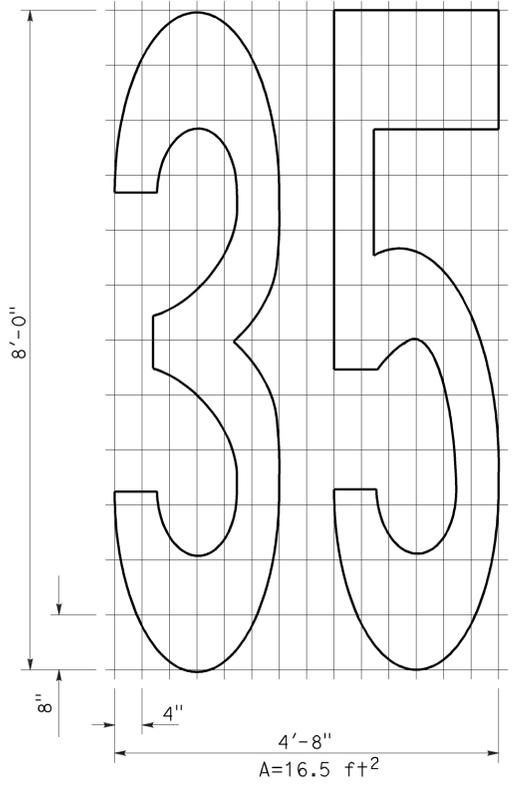
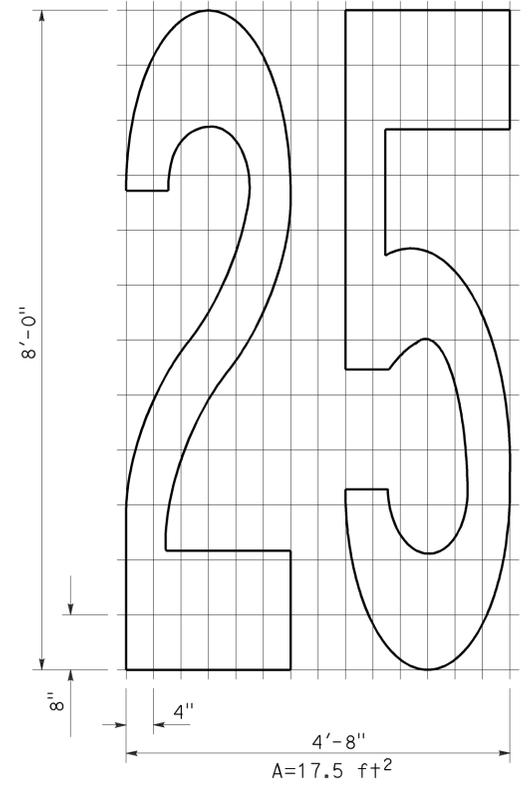
DIAMOND SYMBOL



**BICYCLE LOOP
DETECTOR SYMBOL**



SHARED ROADWAY BICYCLE MARKING



NUMERALS

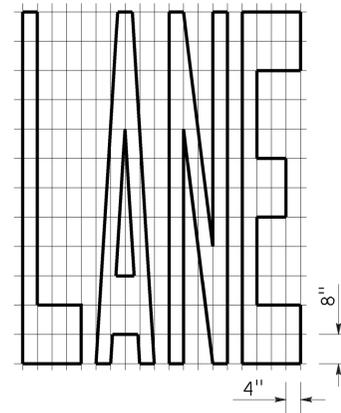
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**PAVEMENT MARKINGS
 SYMBOLS AND NUMERALS**
 NO SCALE

RSP A24C DATED OCTOBER 19, 2012 SUPERSEDES STANDARD PLAN A24C
 DATED MAY 20, 2011 - PAGE 15 OF THE STANDARD PLANS BOOK DATED 2010.

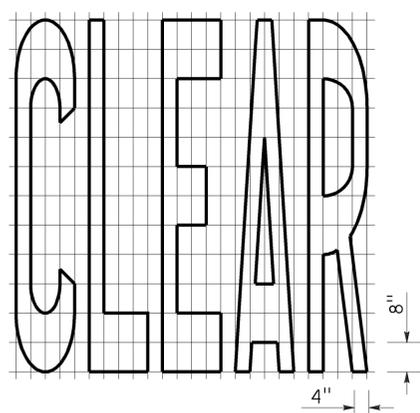
REVISED STANDARD PLAN RSP A24C

2010 REVISED STANDARD PLAN RSP A24C

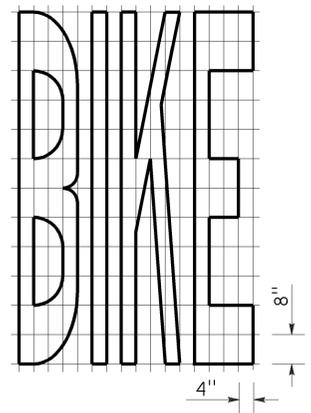
TO ACCOMPANY PLANS DATED 1-27-14



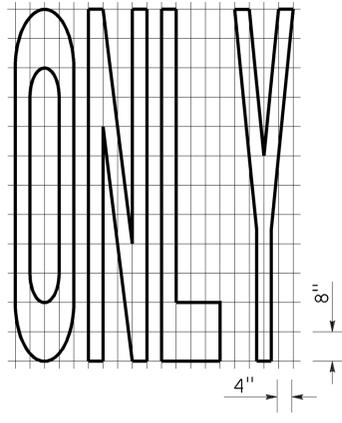
A=24 ft²



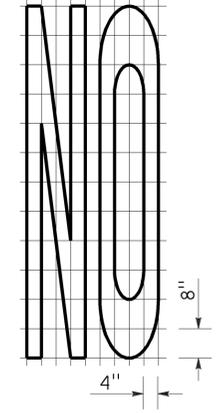
A=27 ft²



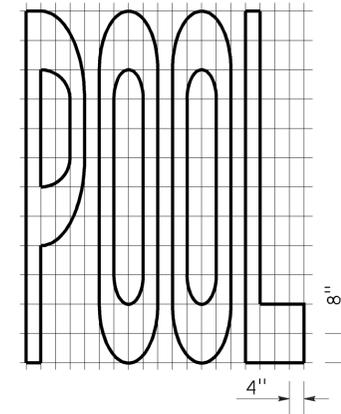
A=21 ft²



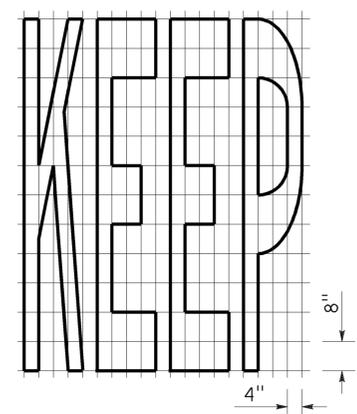
A=22 ft²



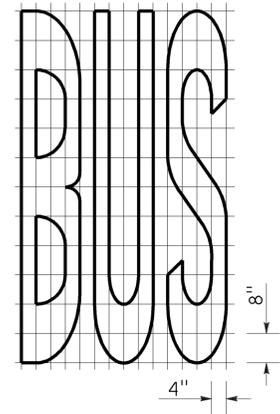
A=14 ft²



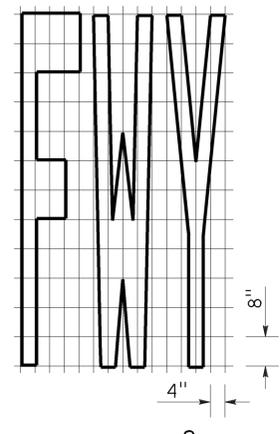
A=23 ft²



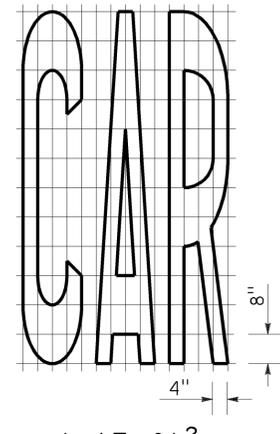
A=24 ft²



A=20 ft²

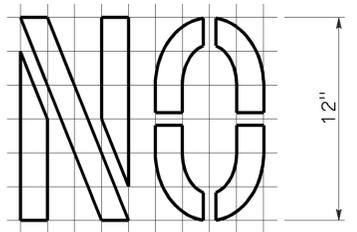


A=16 ft²



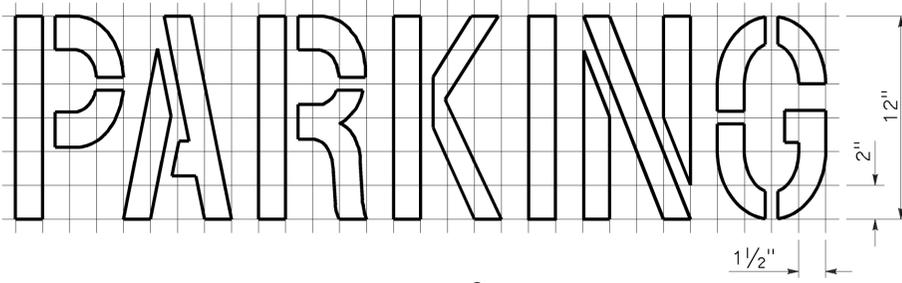
A=17 ft²

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



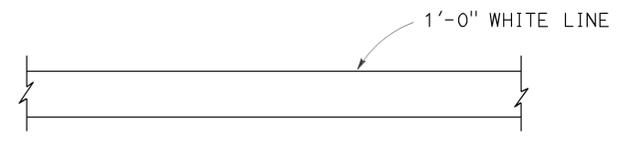
A=2 ft²

See Notes 6 and 7

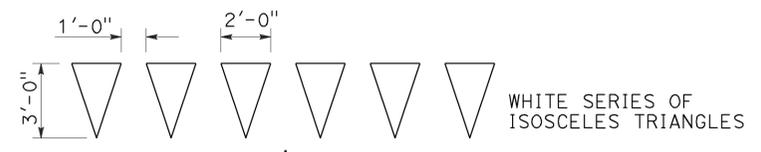


A=2 ft²

See Notes 6 and 7



LIMIT LINE (STOP LINE)



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.

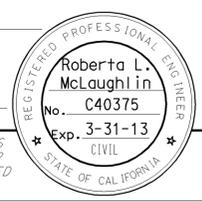
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**PAVEMENT MARKINGS
 WORDS, LIMIT AND YIELD LINES**
 NO SCALE

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

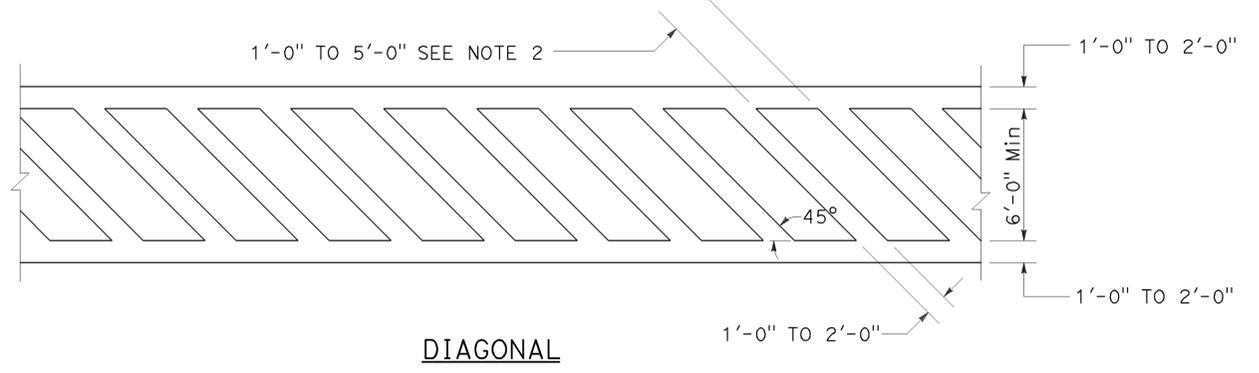
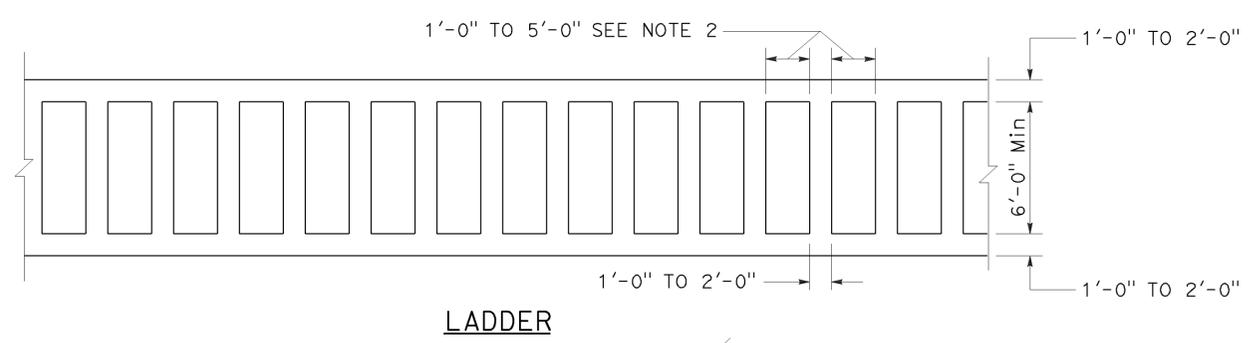
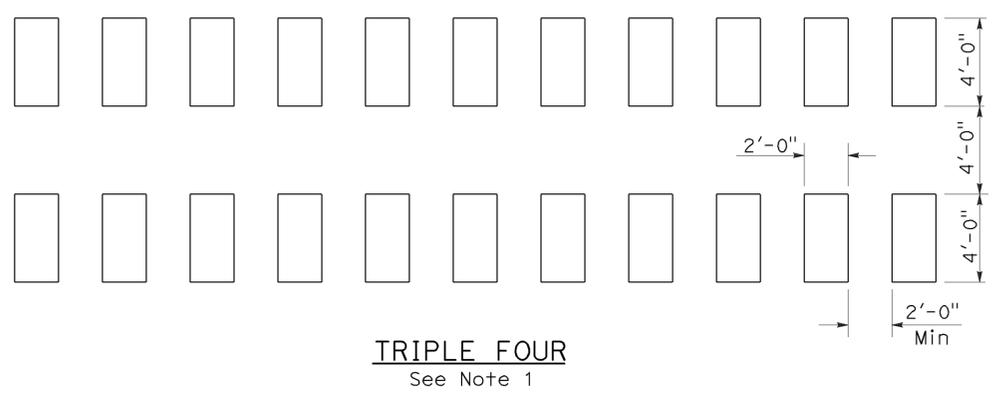
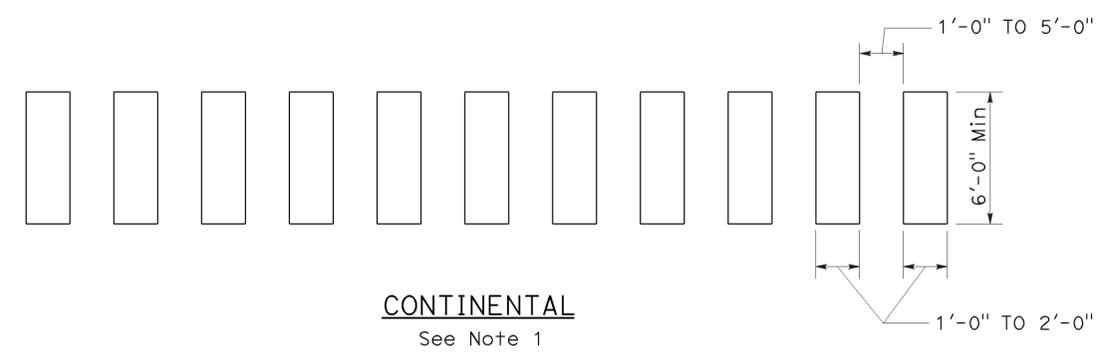
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Nev, Pla	80,267	Var	14	36

Roberta L. McLaughlin
 REGISTERED CIVIL ENGINEER
 July 20, 2012
 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.



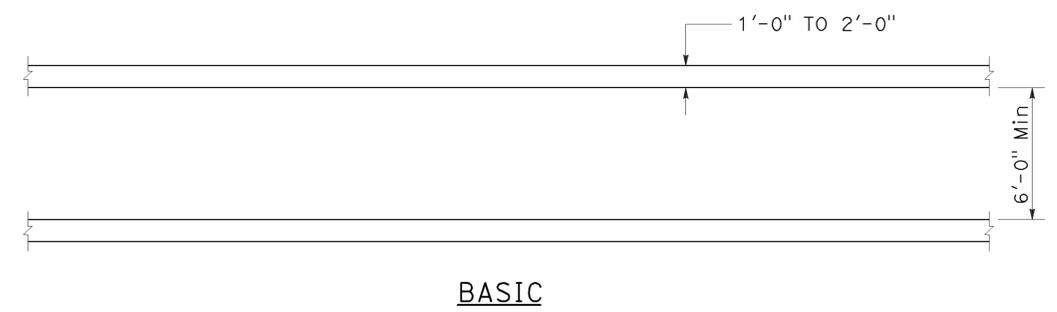
TO ACCOMPANY PLANS DATED 1-27-14



HIGHER VISIBILITY CROSSWALKS

NOTES:

1. Spaces between markings should be placed in wheel tracks of each lane.
2. Spacings not to exceed 2.5 times width of longitudinal line.
3. All crosswalk markings must be white except for those near schools must be yellow.



BASIC

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**PAVEMENT MARKINGS
CROSSWALKS**

NO SCALE
RSP A24F DATED JULY 20, 2012 SUPPLEMENTS THE
STANDARD PLANS BOOK DATED 2010.

2010 REVISED STANDARD PLAN RSP A24F

TO ACCOMPANY PLANS DATED 1-27-14

TABLE 1

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

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

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

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

TABLE 2

LONGITUDINAL BUFFER SPACE AND FLAGGER STATION SPACING				
SPEED *	Min D **	DOWNGRADE Min D ***		
		-3%	-6%	-9%
		ft	ft	ft
mph	ft	ft	ft	ft
20	115	116	120	126
25	155	158	165	173
30	200	205	215	227
35	250	257	271	287
40	305	315	333	354
45	360	378	400	427
50	425	446	474	507
55	495	520	553	593
60	570	598	638	686
65	645	682	728	785
70	730	771	825	891

* - Speed is posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph
 ** - Longitudinal buffer space or flagger station spacing
 *** - Use on sustained downgrade steeper than -3 percent and longer than 1 mile.

TABLE 3

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

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

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM TABLES FOR LANE AND RAMP CLOSURES

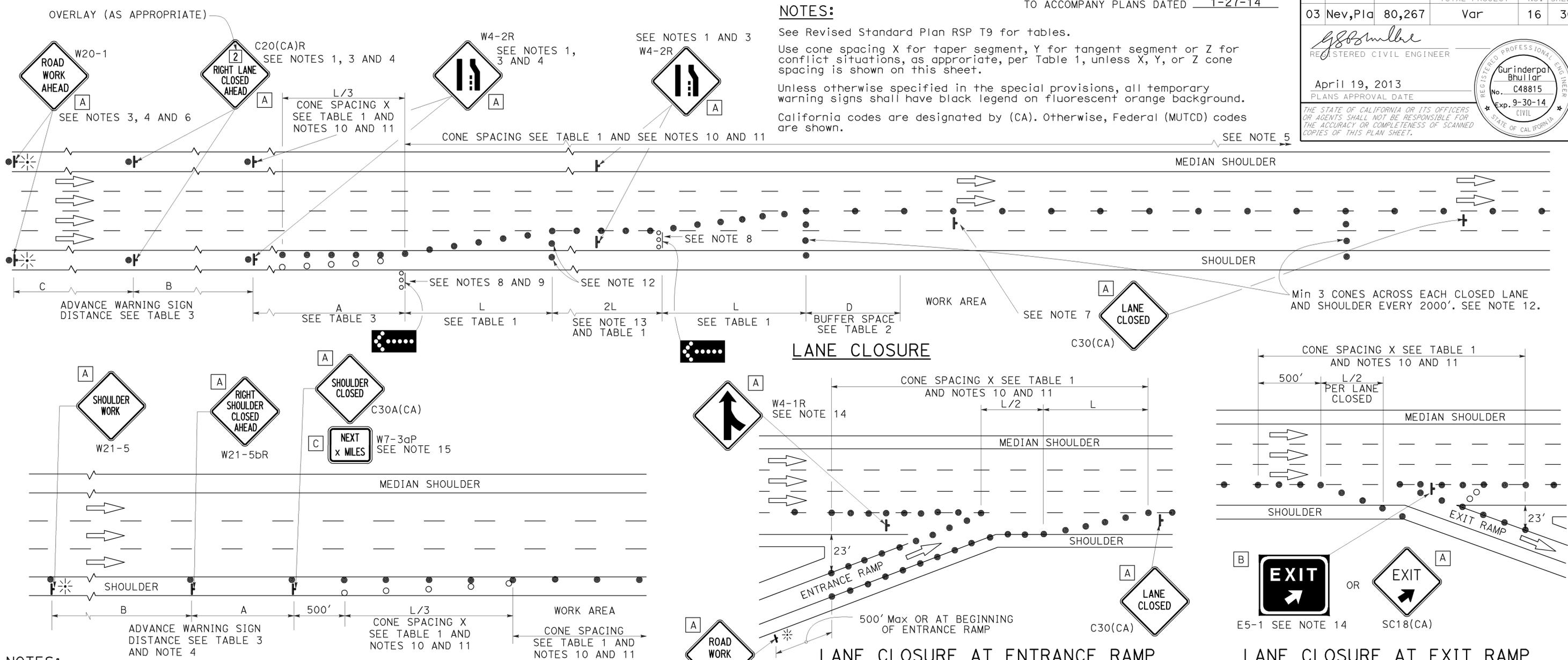
NO SCALE

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Nev,Pla	80,267	Var	16	36

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



- 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 x MILES", use a C20(CA) sign for the first advance warning sign.
 - Place a C30(CA) sign every 2000' throughout length of lane closure.
 - One flashing arrow sign for each lane closed. The flashing arrow signs shall be Type I.
 - A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at top of crest vertical curve or on a horizontal curve.
 - All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
 - Portable delineators, placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.

- Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000' as shown on the "Lane Closure" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
- Unless otherwise specified in the special provisions, the 2L tangent shown along lane lines shall be used between the L tapers required for each closed traffic lane.
- Unless otherwise specified in the special provisions, the E5-1 or SC18(CA) signs shall be used as shown.
- A W7-3aP "NEXT x 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

2010 REVISED STANDARD PLAN RSP T10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Nev, Pla	80,267	Var	17	36

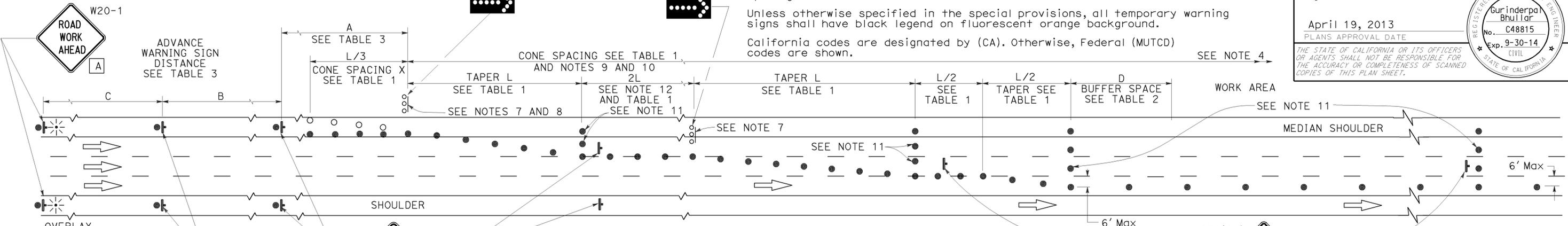
REGISTERED CIVIL ENGINEER
 Gurinderpal Bhullar
 No. C48815
 Exp. 9-30-14
 CIVIL
 STATE OF CALIFORNIA

April 19, 2013
 PLANS APPROVAL DATE

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

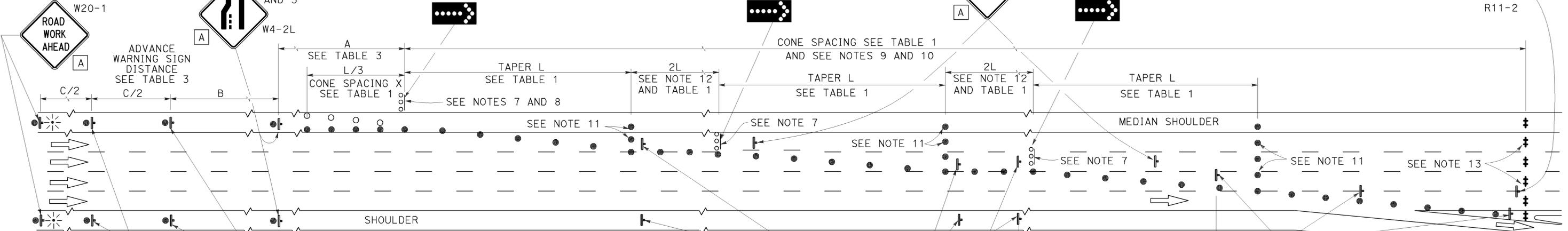
NOTES: See Revised Standard Plan RSP T9 for tables.
 Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.
 Unless otherwise specified in the special provisions, all temporary warning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

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

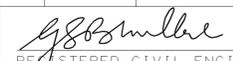
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
 FOR LANE CLOSURES ON
 FREEWAYS AND EXPRESSWAYS**
 NO SCALE

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

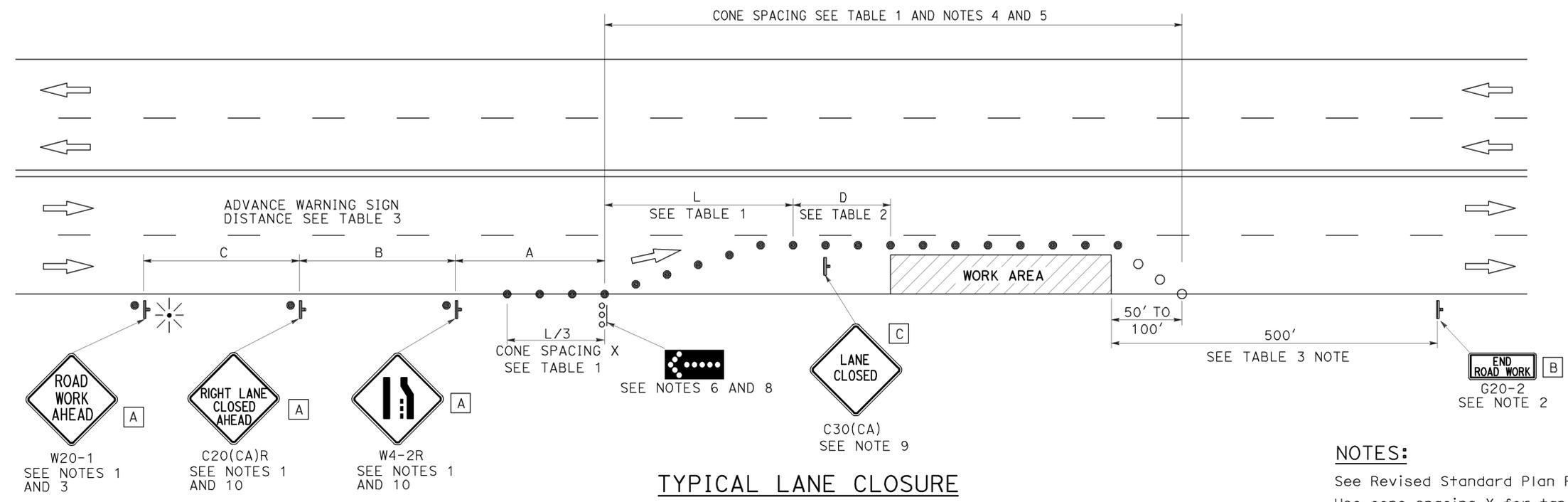
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Nev, Pla	80,267	Var	18	36


 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.

TO ACCOMPANY PLANS DATED 1-27-14



TYPICAL LANE CLOSURE

NOTES:

See Revised Standard Plan RSP T9 for tables.

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

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

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

NOTES:

- Each advance warning sign shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
- A G20-2 "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious, or ends within a larger project's limits.
- If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a C20(CA) sign for the first advance warning sign.
- All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
- Flashing arrow sign shall be either Type I or Type II.
- For approach speeds over 50 mph, use the "Traffic Control System for Lane Closure On Freeways And Expressways" plan for lane closure details and requirements.
- 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.
- Place a C30(CA) sign every 2000' throughout length of lane closure.
- 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 closure unless, otherwise directed by the Engineer.

LEGEND

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

SIGN PANEL SIZE (Min)

- A** 48" x 48"
- B** 36" x 18"
- C** 30" x 30"

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

NO SCALE

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

REVISED STANDARD PLAN RSP T11

2010 REVISED STANDARD PLAN RSP T11

LEGEND

- TRAFFIC CONE
- ⌋ TEMPORARY TRAFFIC CONTROL SIGN
- ⬢ FLASHING ARROW SIGN (FAS)
- FAS SUPPORT OR TRAILER
- ☀ PORTABLE FLASHING BEACON

SIGN PANEL SIZE (Min)

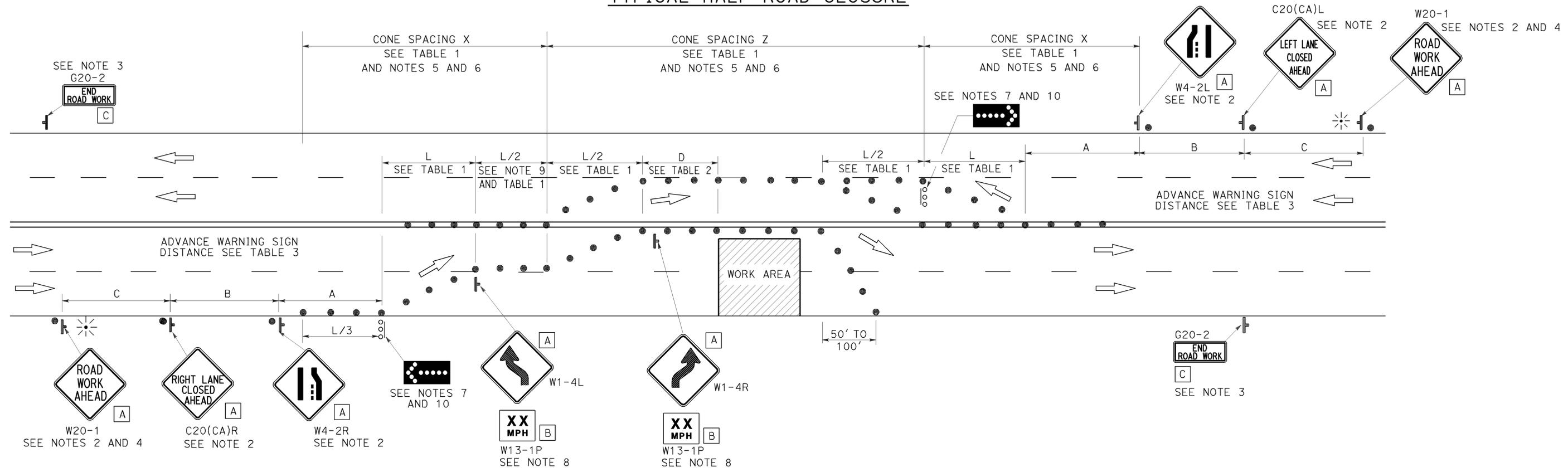
- A 48" x 48"
- B 24" x 24"
- C 36" x 18"

NOTES:

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

TO ACCOMPANY PLANS DATED 1-27-14

TYPICAL HALF ROAD CLOSURE



NOTES:

- At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closure unless, otherwise directed by the Engineer.
- Each advance warning sign in each direction of travel shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
- A G20-2 "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious, or ends within a larger project's limits.
- If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a C20(CA) sign for the first advance warning sign.
- All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
- Flashing arrow signs shall be either Type I or Type II.
- Advisory speed will be determined by the Engineer. The W13-1P Plaque will not be required when advisory speed is more than the posted or maximum speed limit.
- Unless otherwise specified in the special provisions, the tangent (L/2) shall be used.
- A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at the top of crest vertical curve or on a horizontal curve.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
 FOR HALF ROAD CLOSURE ON
 MULTILANE CONVENTIONAL
 HIGHWAYS AND EXPRESSWAYS**
 NO SCALE

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

REVISED STANDARD PLAN RSP T12

2010 REVISED STANDARD PLAN RSP T12

NOTES:

See Revised Standard Plan RSP T9 for tables.

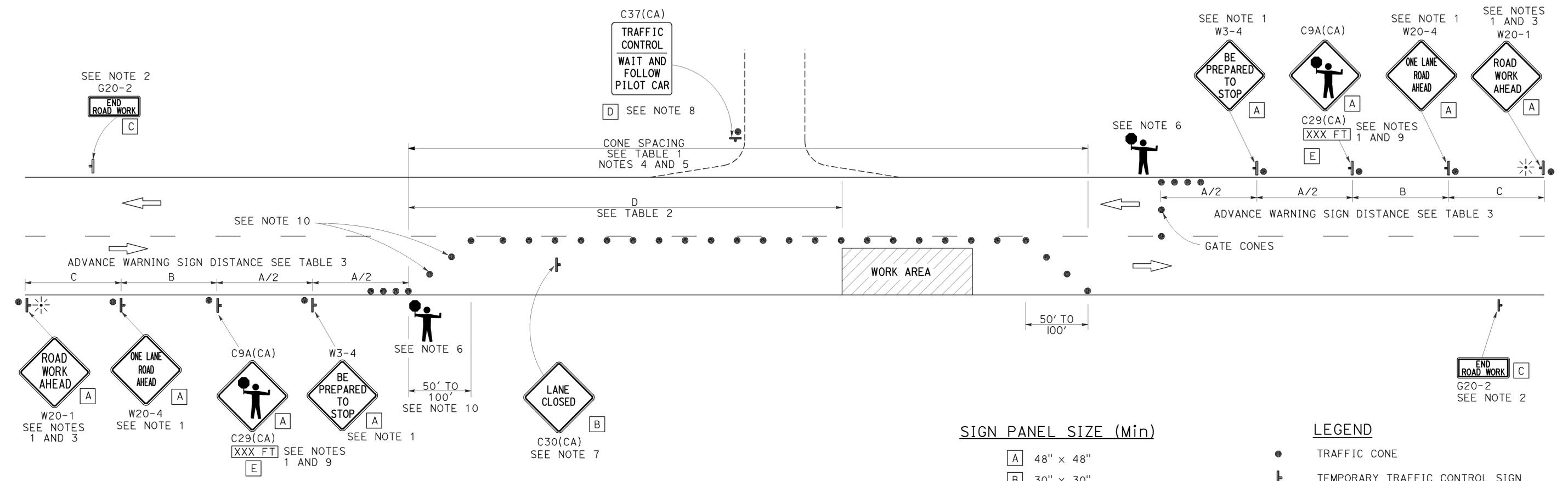
Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

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

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

TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL

TO ACCOMPANY PLANS DATED 1-27-14



NOTES:

- Each advance warning sign in each direction of travel shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
- A G20-2 "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane control unless the end of work area is obvious, or ends within a larger project's limits.
- If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a W20-4 sign for the first advance warning sign.
- All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
- Additional advance flaggers may be required. Flagger should stand in a conspicuous place, be visible to approaching traffic as well as approaching vehicles after the first vehicle has stopped. During the hours of darkness, the flagging station and flagger shall be illuminated and clearly visible to approaching traffic. The illumination footprint of the lighting on the ground shall be at least 20' in diameter. Place a minimum of four cones at 50' intervals in advance of flagger station as shown.
- Place C30(CA) "LANE CLOSED" sign at 500' to 1000' intervals throughout extended work areas. They are optional if the work area is visible from the flagger station.
- When a pilot car is used, place a C37(CA) "TRAFFIC CONTROL-WAIT AND FOLLOW PILOT CAR" sign with black legend on white background at all intersections, driveways and alleys without a flagger within traffic control area. Signs shall be clean and visible at all times. Where traffic can not be effectively self-regulated, at least one flagger shall be used at each intersection within traffic control area.
- An optional C29(CA) sign may be placed below the C9A(CA) sign.
- Either traffic cones or barricades shall be placed on the taper. Barricades shall be Type I, II, or III.

SIGN PANEL SIZE (Min)

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

LEGEND

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

NO SCALE

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

REVISED STANDARD PLAN RSP T13

2010 REVISED STANDARD PLAN RSP T13

TYPICAL RAMP CLOSURES

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
03	Nev, Pla	80,267	Var	21	36

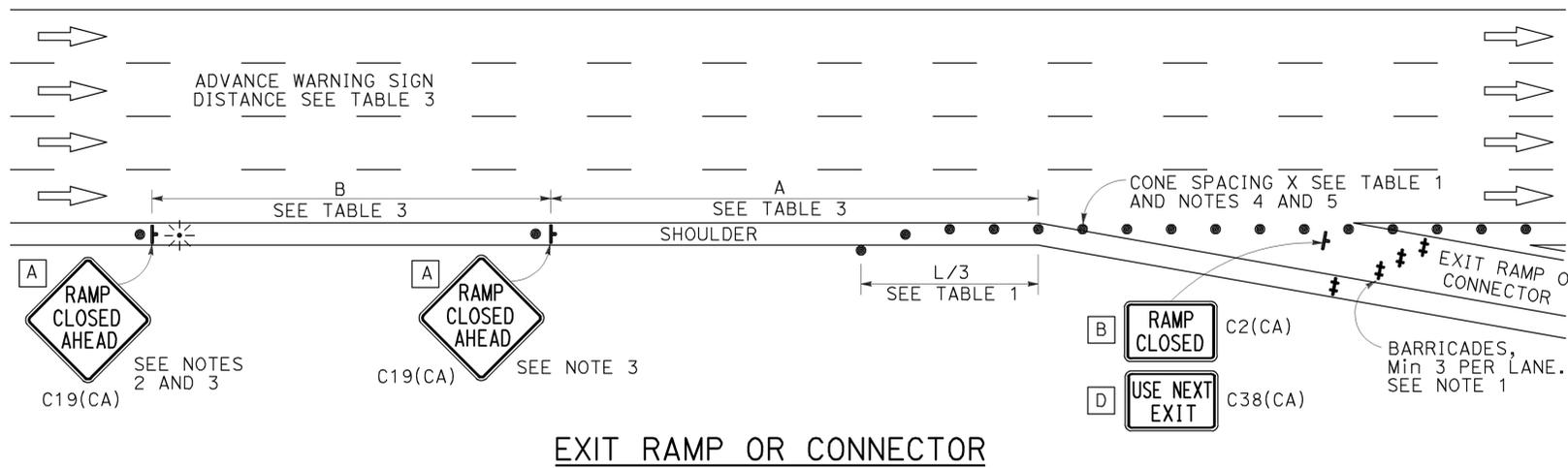
Gurinderpal Bhullar
 REGISTERED CIVIL ENGINEER
 April 19, 2013
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

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

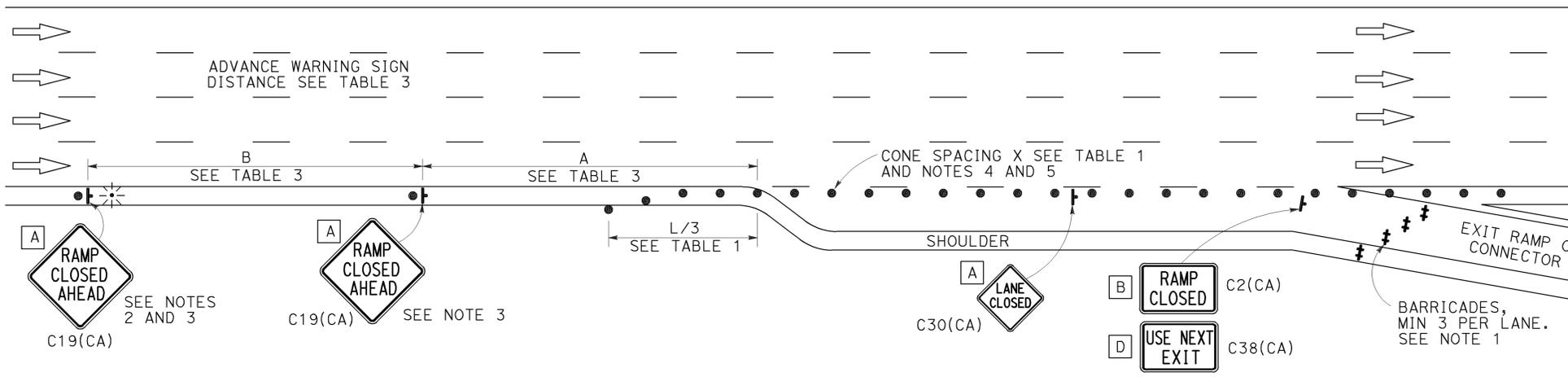
TO ACCOMPANY PLANS DATED 1-27-14

NOTES:

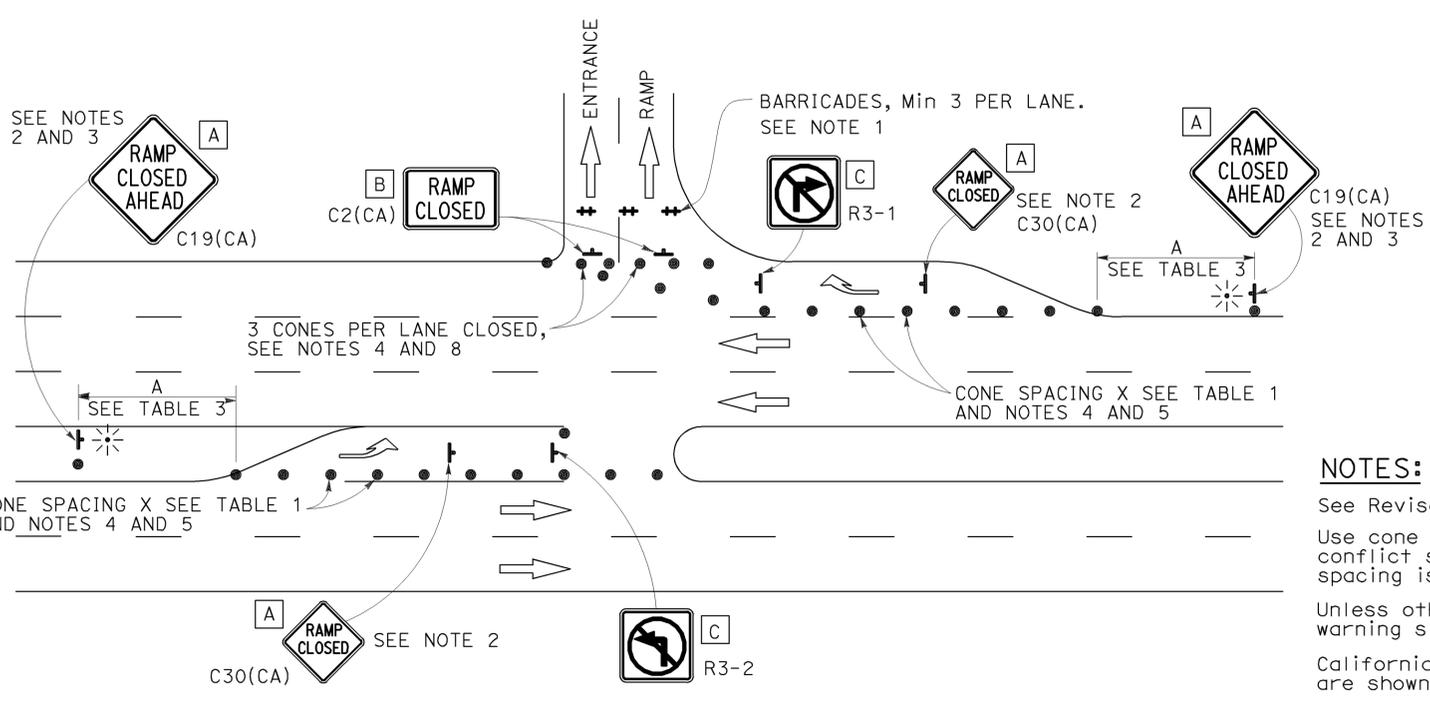
- Barricades shall be Type I, II, or III for closures lasting one week or less and Type III for closures lasting longer than one week.
- In addition to placing the C19(CA) "RAMP CLOSED AHEAD" and C30(CA) "RAMP CLOSED" signs, black on orange overlay plates with the word "CLOSED" may be mounted, as directed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



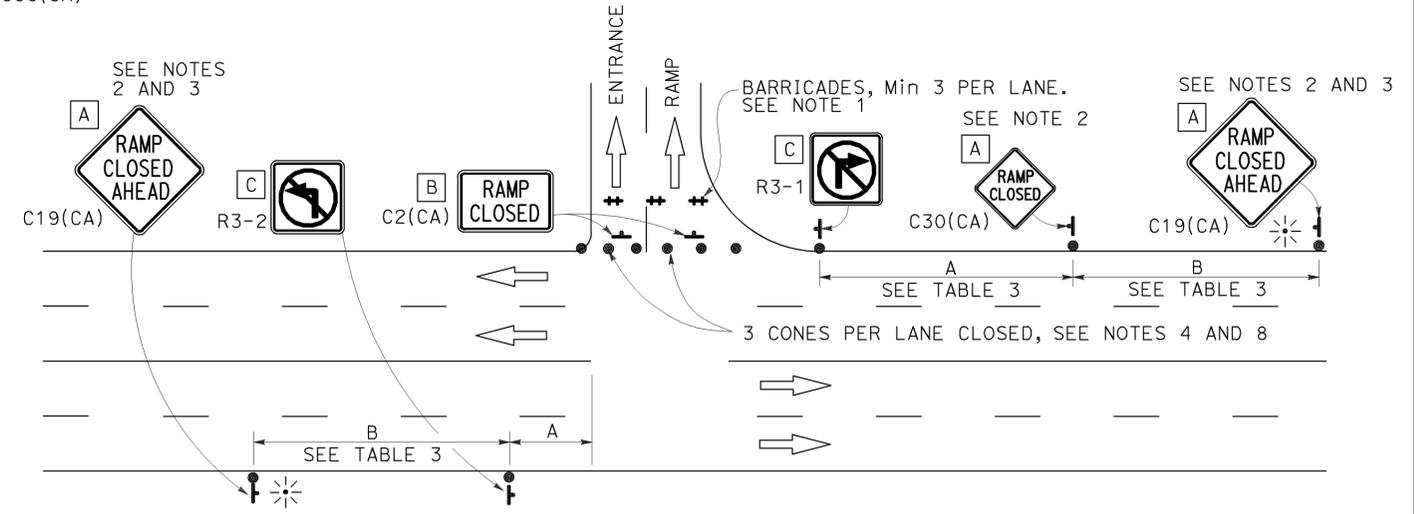
EXIT RAMP OR CONNECTOR



EXIT RAMP OR CONNECTOR WITH ADDITIONAL LANE



ENTRANCE RAMP WITH TURNING POCKETS



ENTRANCE RAMP WITHOUT TURNING POCKETS

NOTES:

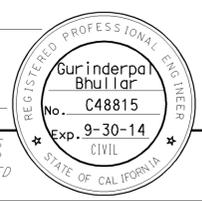
- See Revised Standard Plan RSP T9 for tables.
- Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.
- Unless otherwise specified in the special provisions, all temporary warning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

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

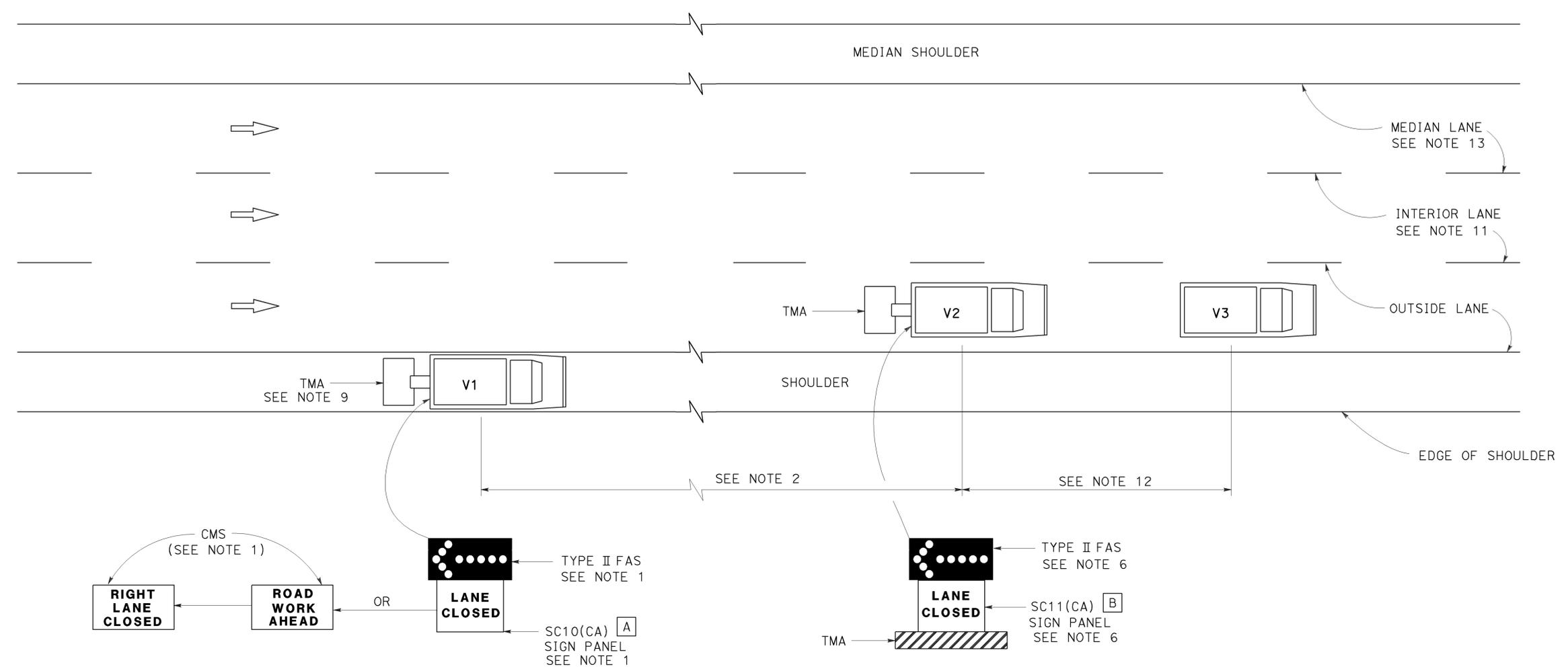
RSP T14 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T14
 DATED MAY 20, 2011 - PAGE 242 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T14

2010 REVISED STANDARD PLAN RSP T14



TO ACCOMPANY PLANS DATED 1-27-14



SIGN PANEL SIZE (Min)

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

LEGEND

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

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

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR MOVING LANE CLOSURE ON MULTILANE HIGHWAYS

NO SCALE

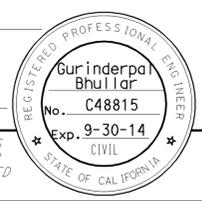
RSP T15 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T15 DATED MAY 20, 2011 - PAGE 243 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T15

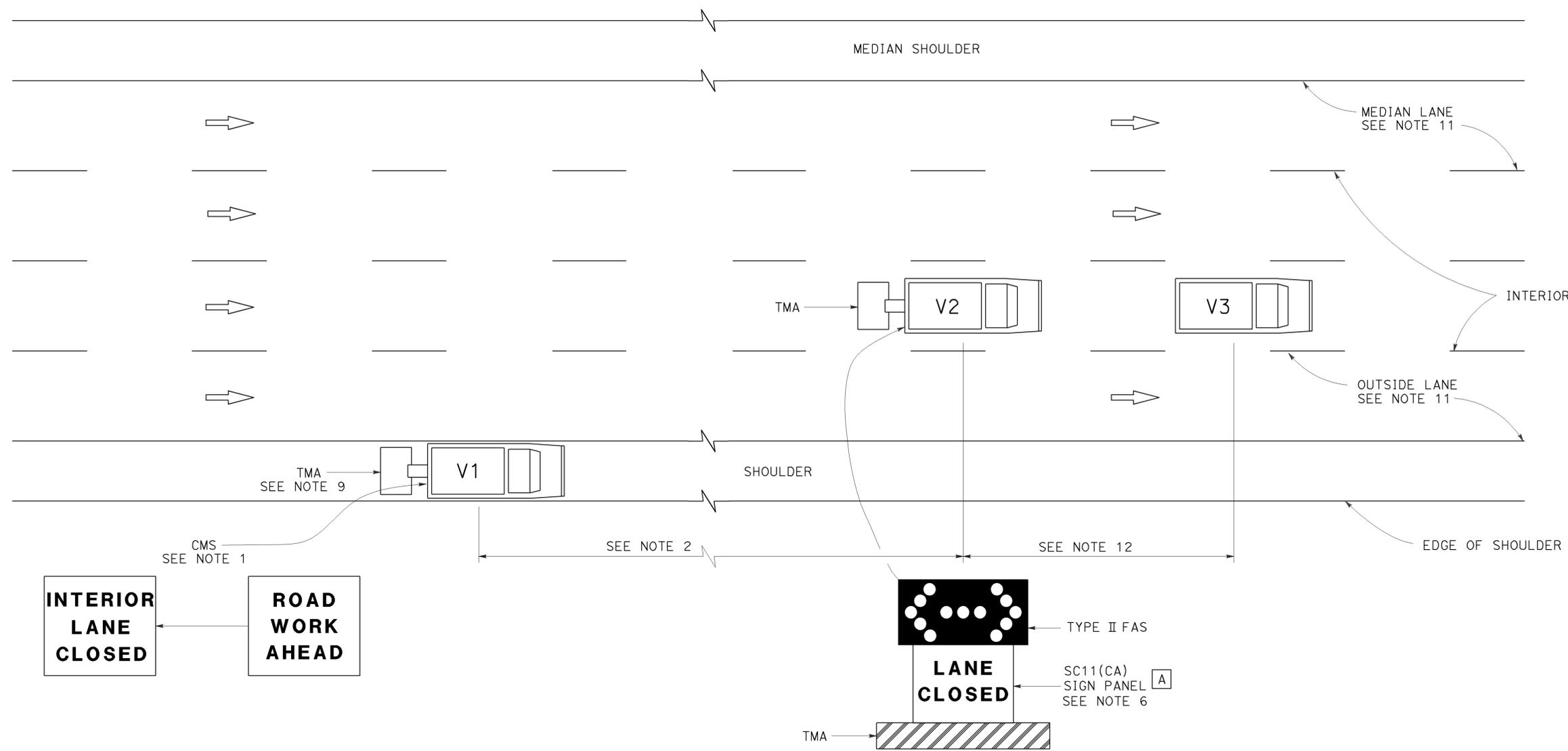
2010 REVISED STANDARD PLAN RSP T15

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Nev, Pla	80,267	Var	23	36

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.



TO ACCOMPANY PLANS DATED 1-27-14



SIGN PANEL SIZE (Min)

A 54" x 42"

LEGEND

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

MOVING LANE CLOSURE ON INTERIOR LANE OF MULTILANE HIGHWAYS

NOTES:

1. A changeable message sign shall be mounted on the rear of sign vehicle V1. The changeable message sign shall be sequenced to show the "ROAD WORK AHEAD" message first, followed by the "INTERIOR LANE CLOSED" message. The message "CENTER LANE CLOSED" may be used in place of the "INTERIOR LANE CLOSED" message.
2. If traffic queues develop, sign vehicle V1 should be positioned upstream from the end of queue. Sign vehicle V1 shall be positioned where highly visible when shoulders are not available.
3. A minimum sight distance of 1500' should be provided in advance of sign vehicle V1.
4. Sign vehicle V1 should remain at the beginning of horizontal or vertical curves until the other vehicles (V2 and V3) are far enough beyond the curve to resume the minimum sight distance of 1500'.
5. Vehicle-mounted sign panels shall have Type III or above retroreflective sheeting, black on white, or black on fluorescent orange, with 6" minimum series D letters per Caltrans sign specifications.
6. Shadow vehicle V2 shall be equipped with a truck-mounted attenuator. The sign panel shown and a Type II flashing arrow sign shall be mounted on the rear of shadow vehicle V2.
7. All vehicles used for lane closures shall be equipped with two-way radios, and the vehicle operators shall maintain communication during the work or application operation.
8. All vehicles shall be equipped with flashing or rotating amber lights.
9. If sign vehicle V1 encroaches into the traffic lane due to insufficient shoulder width, sign vehicle V1 shall be equipped with a truck-mounted attenuator. Sign vehicle V1 shall stay as close to the edge of shoulder as practicable.
10. Where workers would be on foot in the work area, a stationary type lane closure (Revised Standard Plan T10, T11 etc., as applicable) shall be used instead of this plan.
11. For moving lane closure on median lane or outside lane of multilane highways, use Revised Standard Plan T15.
12. The spacing between work vehicle(s) and the shadow vehicles, and between each shadow vehicle should be minimized to deter road users from driving in between.

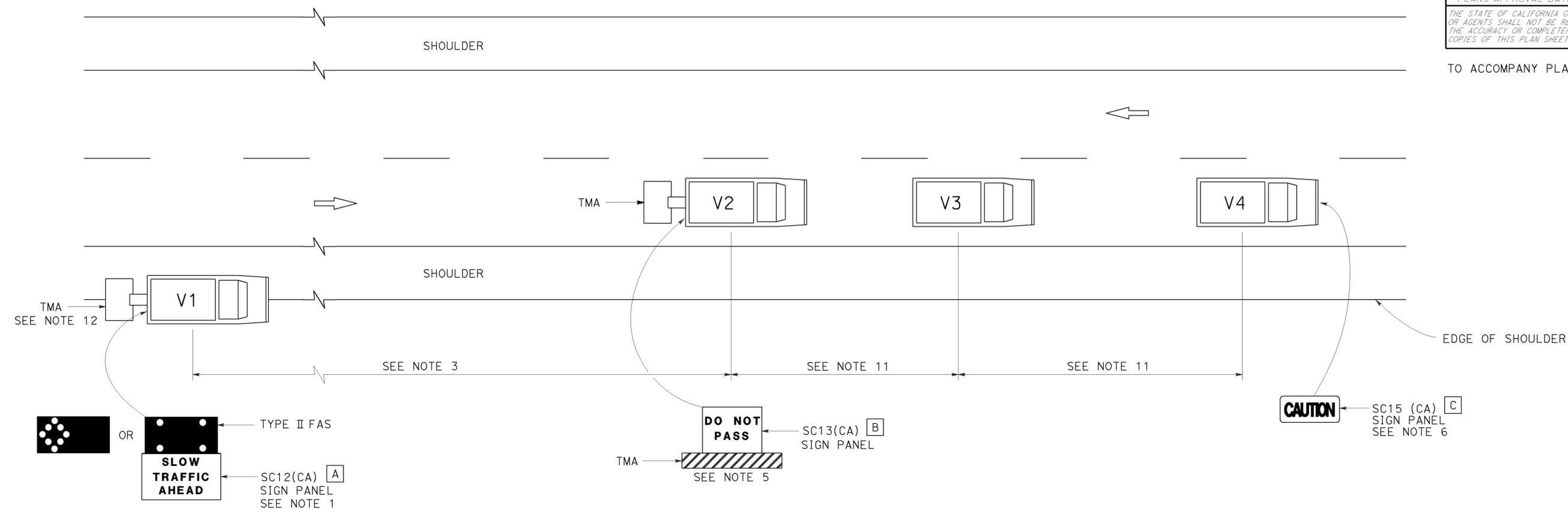
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
 FOR MOVING LANE CLOSURE
 ON MULTILANE HIGHWAYS**
 NO SCALE

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

REVISED STANDARD PLAN RSP T16

2010 REVISED STANDARD PLAN RSP T16

TO ACCOMPANY PLANS DATED 1-27-14



NOTES:

1. Either a changeable message sign or a SC12(CA) "SLOW TRAFFIC AHEAD" sign shall be mounted on the rear of sign vehicle V1. The changeable message sign shall be sequenced to show the "CAUTION" message first, follow by the "SLOW TRAFFIC AHEAD" message. A Type II flashing arrow sign may be used with the SC12(CA) sign panel.
2. Sign vehicle V1 should be positioned where highly visible when shoulders are not available.
3. If traffic queues develop, sign vehicle V1 should be positioned upstream from the end of queue.
4. Vehicle-mounted sign panels shall have Type III or above retroreflective sheeting, black on white, or black on fluorescent orange, with 6" minimum series D letters per Caltrans sign specifications.
5. Shadow vehicle shall be equipped with a truck-mounted attenuator. The sign panel shown shall be mounted on the rear of shadow vehicle V2. The message "LANE CLOSED" may be used in place of the "DO NOT PASS" message.
6. The sign panel shown shall be mounted on the front of sign vehicle V4, facing opposing traffic.
7. All vehicles shall be equipped with flashing or rotating amber lights.
8. Sign vehicle V4 will not be required when the work and vehicles V2 and V3 are 2' or more from the centerline of the highway during the work or application operations.
9. All vehicles used for lane closures shall be equipped with two-way radios and the vehicle operators shall maintain communication during the work or application operation.
10. This plan shall not be used where workers would be on foot in the work area. Use a stationary type lane closure (Revised Standard Plan T13) for this condition.
11. Minimize spacing between vehicles V2 and V3 and vehicles V3 and V4 to deter road users from driving in between them.
12. If sign vehicle V1 encroaches into the traffic lane due to insufficient shoulder width, sign vehicle V1 shall be equipped with a truck-mounted attenuator. Sign vehicle V1 shall stay as close to the edge of shoulder as practicable.

LEGEND

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

SIGN PANEL SIZE (Min)

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

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

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

REVISED STANDARD PLAN RSP T17

2010 REVISED STANDARD PLAN RSP T17

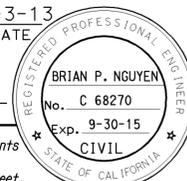
NOTES: (APPLY TO ALL SHEETS)

----- Indicates existing structure.

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

STANDARD PLAN SHEET NUMBER
DETAIL NUMBER

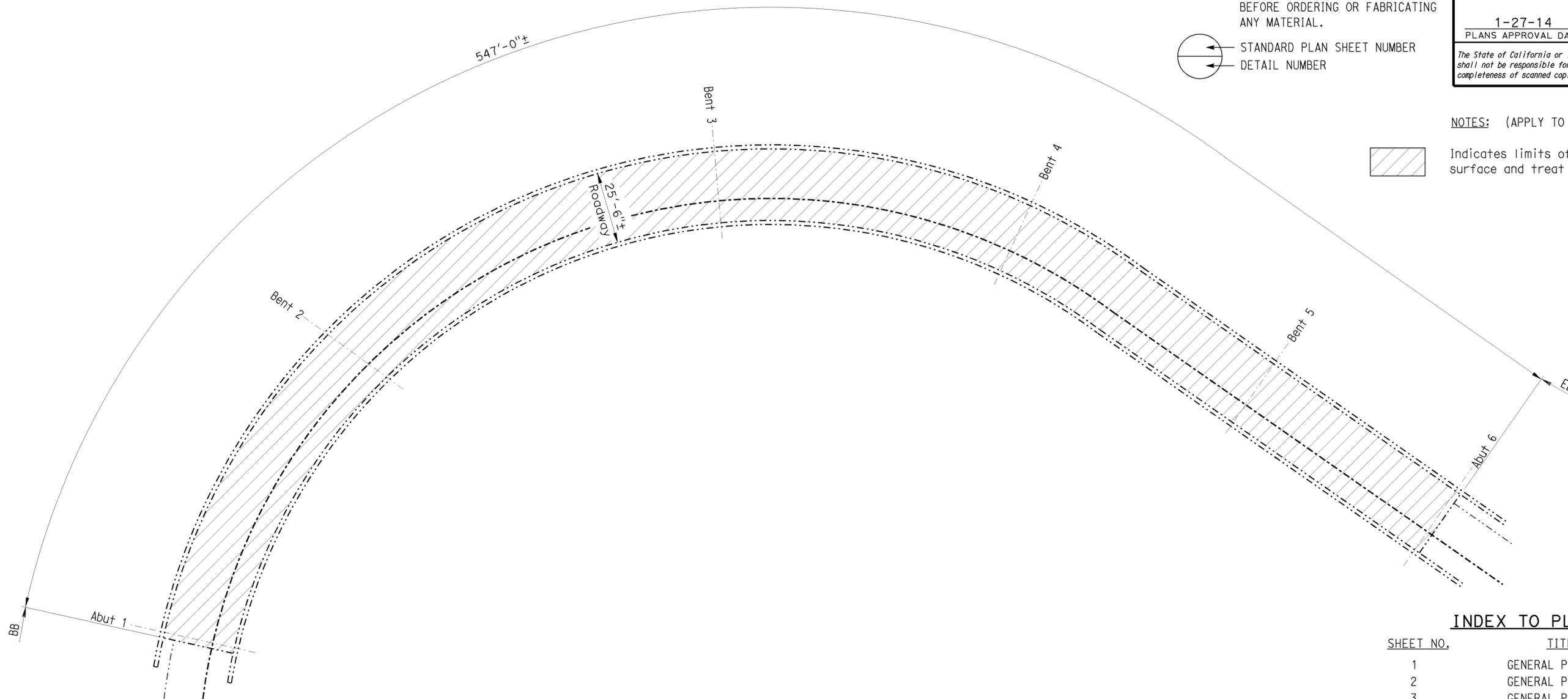
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Nev, Pla	80,267	Var	25	36
REGISTERED CIVIL ENGINEER			DATE		
12-3-13					
PLANS APPROVAL DATE					
1-27-14					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					



NOTES: (APPLY TO THIS SHEET ONLY)



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



DOUGLAS-SUNRISE CONNECTOR OVERCROSSING

BR. NO. 19-0018, RTE 80, PLA, PM 1.95
1' = 20'
LOCATION 1

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	JOINT SEAL AND DECK REPAIR DETAILS
8	JOINT SEAL DETAILS NO. 1
9	JOINT SEAL DETAILS NO. 2
10	SNOW PLOW DEFLECTOR DETAILS
11	MISCELLANEOUS DETAILS
12	STRIP JOINT SEAL ASSEMBLY (MAXIMUM MOVEMENT RATING = 4")

STANDARD PLANS DATED 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")

DOUGLAS-SUNRISE CONNECTOR OC

BRIDGE NO 19-0018

QUANTITIES

	LUMP SUM
PUBLIC SAFETY PLAN	
PREPARE CONCRETE BRIDGE DECK SURFACE	13,950 SQFT
TREAT BRIDGE DECK	13,950 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	156 GAL

12-3-13 *Michael J. Lee*
DESIGN ENGINEER

DESIGN BY B. Nguyen
CHECKED H. Moazami
DETAILS BY M. Hallstrom
CHECKED H. Moazami
QUANTITIES BY B. Nguyen
CHECKED H. Moazami

LOAD FACTOR DESIGN
LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
LAYOUT BY M. Hallstrom
CHECKED X
SPECIFICATIONS BY D. Klein
CHECKED PLANS AND SPECS COMPARED D. Klein

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIES
POST MILE VARIOUS

ROUTE 80 BRIDGES GENERAL PLAN NO. 1

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



UNIT: 3488
PROJECT NUMBER & PHASE: 0313000027

CONTRACT NO.: 03-4M7101

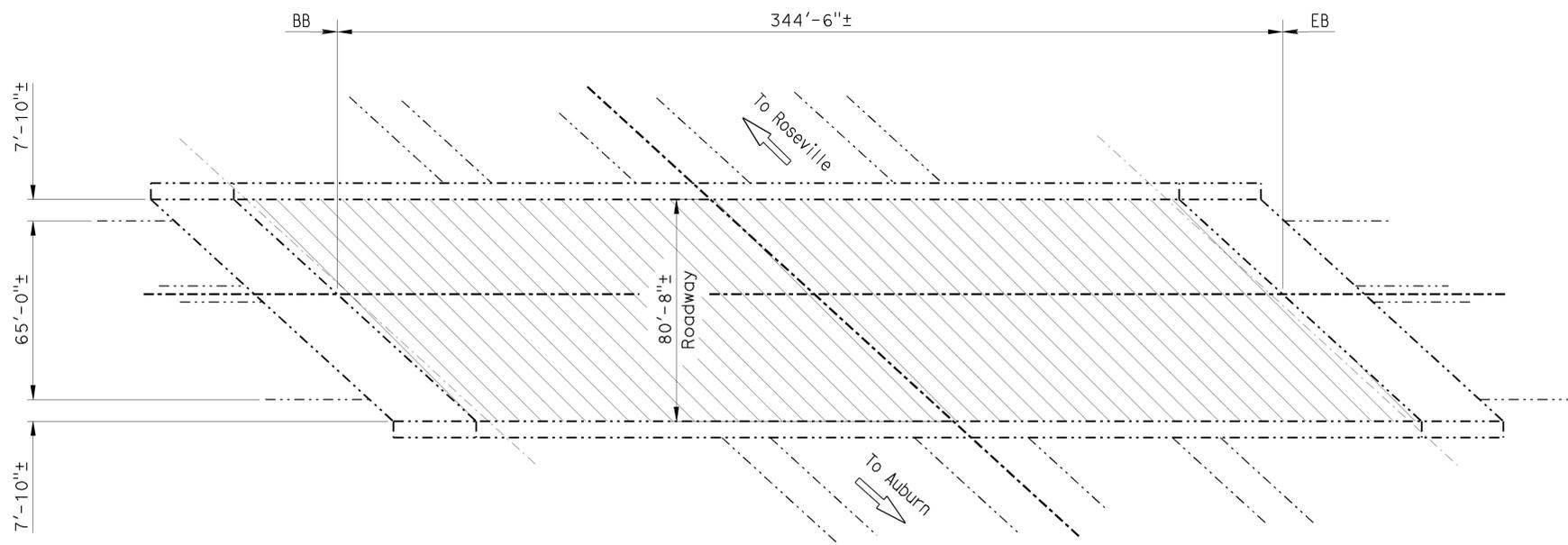
DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
5-10-13	1	12

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Nev, Pla	80,267	Var	26	36

12-3-13
 REGISTERED CIVIL ENGINEER DATE
 1-27-14
 PLANS APPROVAL DATE
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.

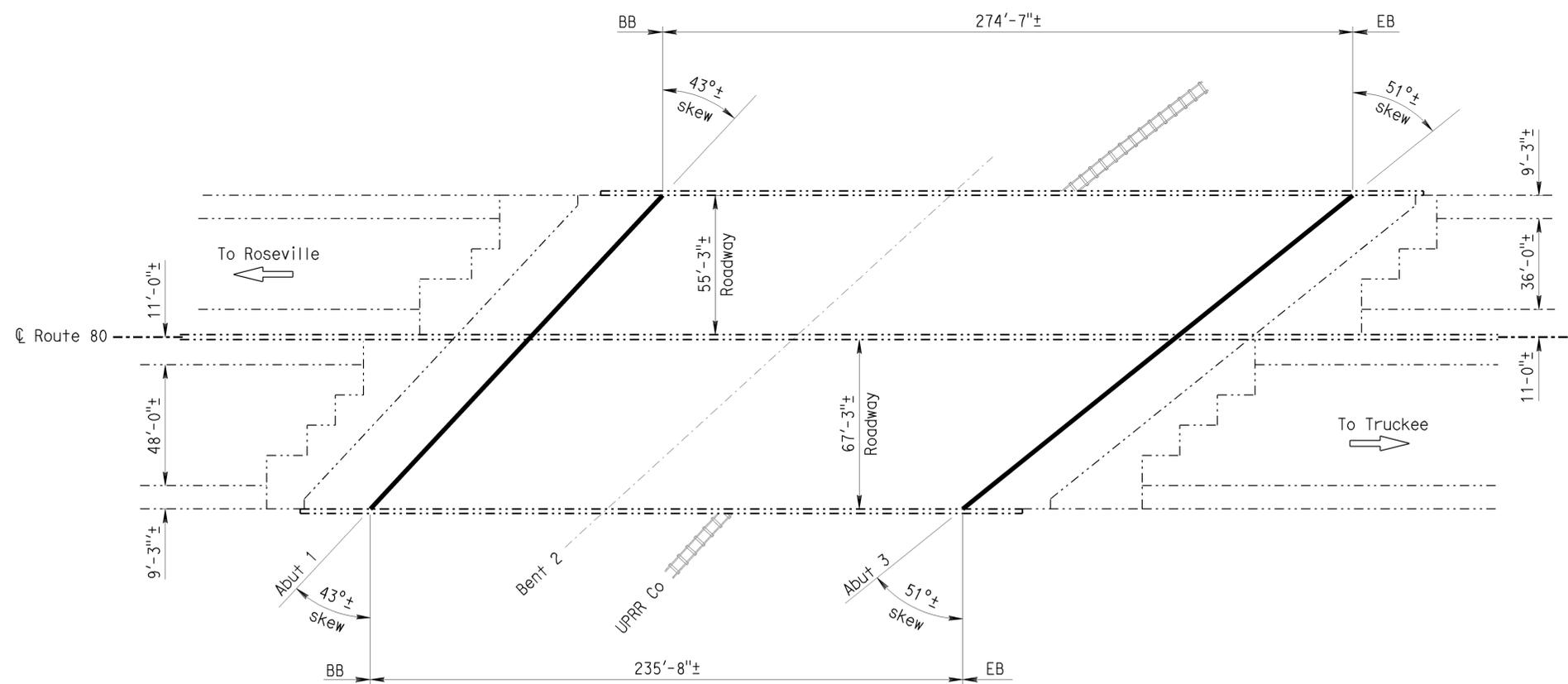
REGISTERED PROFESSIONAL ENGINEER
 BRIAN P. NGUYEN
 No. C 68270
 Exp. 9-30-15
 CIVIL
 STATE OF CALIFORNIA



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.

SIERRA COLLEGE BOULEVARD OVERCROSSING
 BR. NO. 19-0180, RTE 80, PLA, PM 7.10
 1' = 30'
 LOCATION 2



EAST AUBURN OVERHEAD
 BR. NO. 19-0071, ROUTE 80, PLA, PM 18.33
 1' = 30'
 LOCATION 3

SIERRA COLLEGE BLVD OC	BRIDGE NO 19-0180
QUANTITIES	
PREPARE CONCRETE BRIDGE DECK SURFACE	27,800 SQFT
TREAT BRIDGE DECK	27,800 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	310 GAL

EAST AUBURN OH	BRIDGE NO 19-0071
QUANTITIES	
CLEAN EXPANSION JOINT	364 LF
JOINT SEAL (MR 1½")	364 LF

12-3-13
 DESIGN ENGINEER

DESIGN	BY B. Nguyen	CHECKED H. Moazami	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY M. Hallstrom	CHECKED H. Moazami	LAYOUT	BY M. Hallstrom
QUANTITIES	BY B. Nguyen	CHECKED H. Moazami	SPECIFICATIONS	BY D. Klein

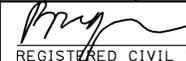
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

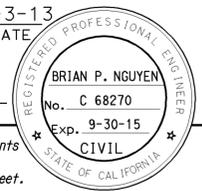
DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIES
POST MILE	VARIOUS

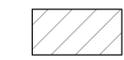
ROUTE 80 BRIDGES
GENERAL PLAN NO. 2



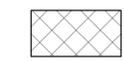
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Nev, Pla	80,267	Var	27	36
 REGISTERED CIVIL ENGINEER			12-3-13	DATE	
1-27-14 PLANS APPROVAL DATE					
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NOTES: (APPLY TO THIS SHEET ONLY)



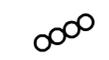
Indicates limits of remove existing 3/4"± polyester concrete overlay, remove unsound concrete, place rapid setting concrete patches, prepare concrete bridge deck surface, and place 3/4"± polyester concrete overlay. For details, see "JOINT SEAL AND DECK REPAIR DETAILS" sheet.



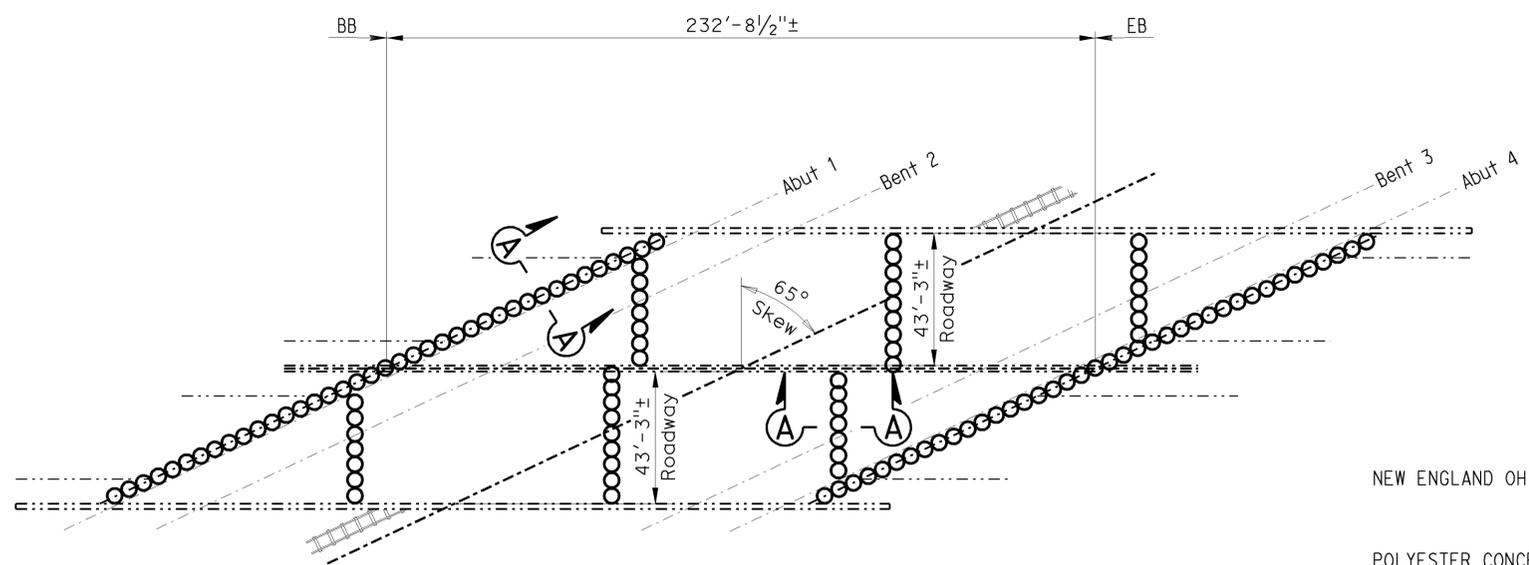
Indicates limits of grind approach slab surface, prepare concrete bridge deck surface and place 3/4"± polyester concrete overlay. For details, see DETAIL 1.



Indicates limits of clean expansion joint and install new joint seal and snow plow deflectors. For details, see "JOINT SEAL AND DECK REPAIR DETAILS" and "SNOW PLOW DEFLECTOR DETAILS" sheets.



Indicates location of clean expansion joint, place new polyester concrete expansion dam and install new joint seal. For details, see SECTION A-A on "JOINT SEAL DETAILS NO. 1" sheet and "JOINT SEAL AND REPAIR DETAILS" sheet.



NEW ENGLAND OH BRIDGE NO 19-0075

QUANTITIES

POLYESTER CONCRETE EXPANSION DAM	316	CF
CLEAN EXPANSION JOINT	635	LF
JOINT SEAL (MR 1")	635	LF

PUTTS LAKE UC BRIDGE NO 19-0116L

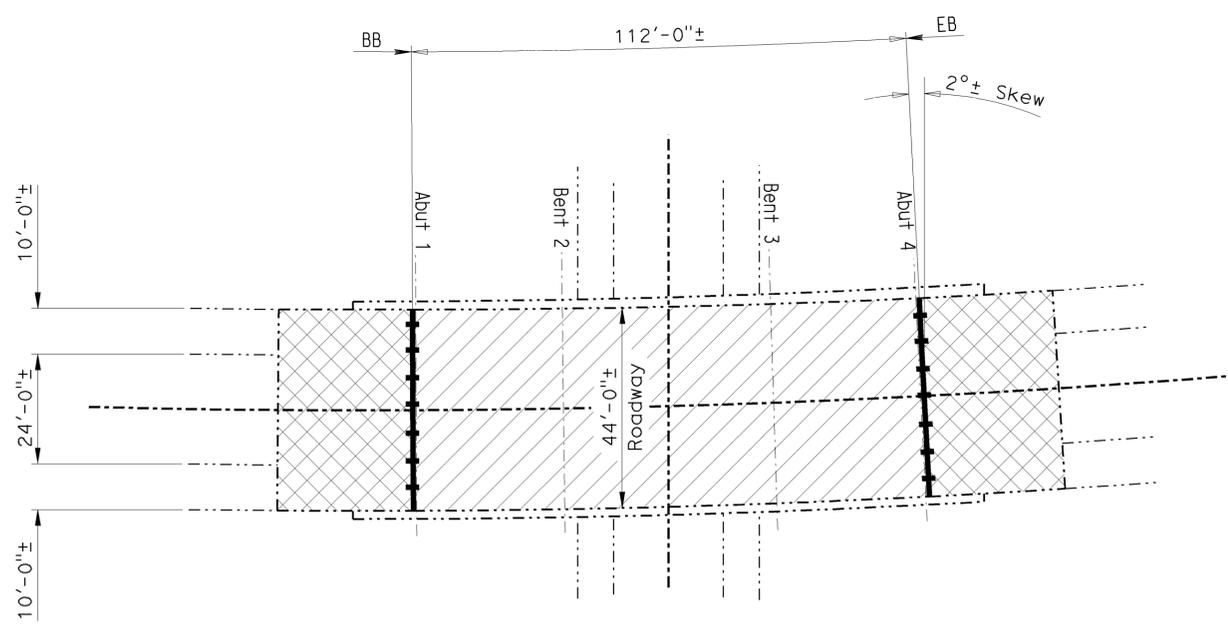
QUANTITIES

RAPID SETTING CONCRETE (PATCH)	13	CF
REMOVE CONCRETE DECK SURFACE	2,640	SQFT
REMOVE POLYESTER CONCRETE OVERLAY	4,930	SQFT
REMOVE UNSOUND CONCRETE	13	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	7,570	SQFT
FURNISH POLYESTER CONCRETE OVERLAY	570	CF
PLACE POLYESTER CONCRETE OVERLAY	7,570	SQFT
CLEAN EXPANSION JOINT	90	LF
SNOWPLOW DEFLECTOR	14	EA
JOINT SEAL (MR 1/2")	90	LF



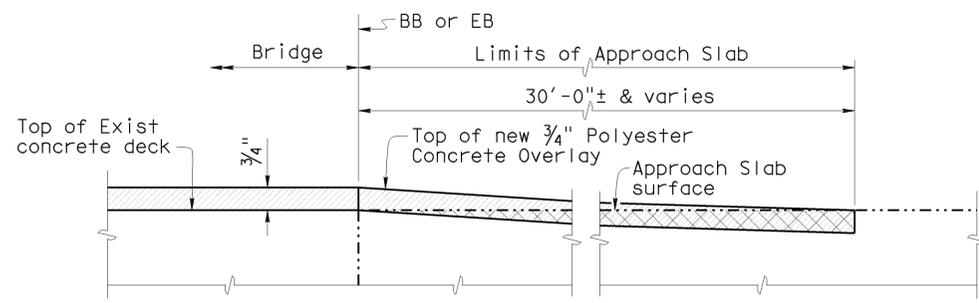
NEW ENGLAND OVERHEAD

BR. NO. 19-0075, RTE 80, PLA, PM 29.51
 1' = 30'
 LOCATION 4



PUTTS LAKE UNDERCROSSING

BR. NO. 19-0116L, RTE 80, PLA, PM 54.81
 1' = 20'
 LOCATION 5



DETAIL 1

NO SCALE

12-3-13 
 DESIGN ENGINEER

DESIGN	BY B. Nguyen	CHECKED H. Moazami	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY M. Hallstrom	CHECKED H. Moazami	LAYOUT	BY M. Hallstrom
QUANTITIES	BY B. Nguyen	CHECKED H. Moazami	SPECIFICATIONS	BY D. Klein

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIES
POST MILE	VARIOUS

**ROUTE 80 BRIDGES
 GENERAL PLAN NO. 3**

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



UNIT: 3488
 PROJECT NUMBER & PHASE: 0313000027

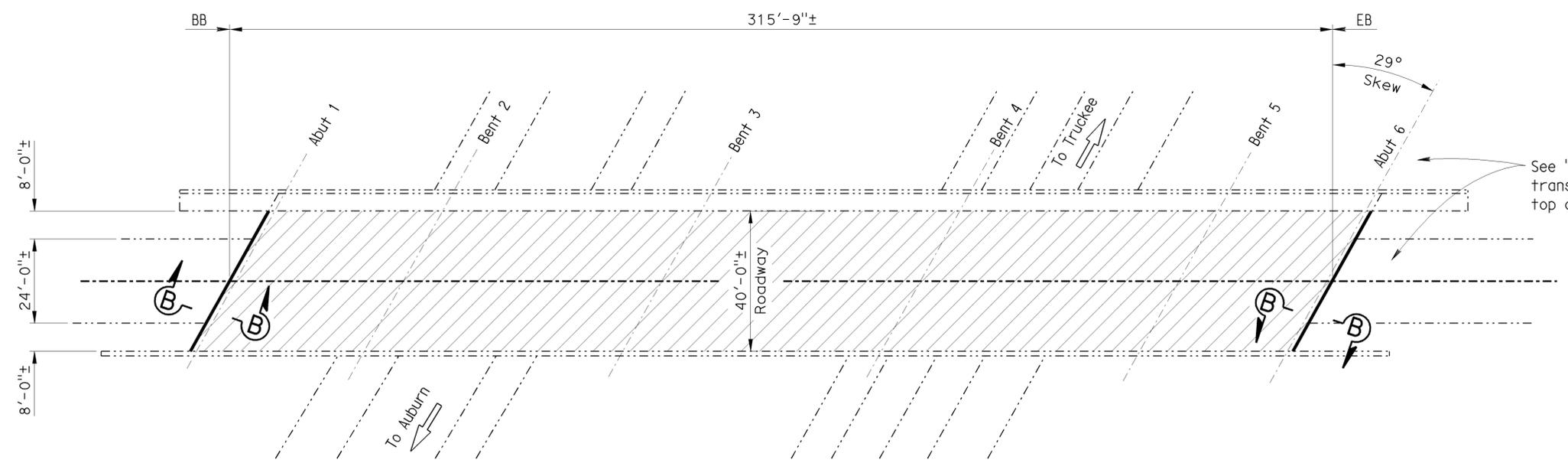
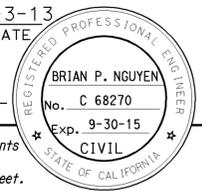
CONTRACT NO.: 03-4M7101

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
5-10-13	3	12

USERNAME => s137417 DATE PLOTTED => 11-DEC-2013 TIME PLOTTED => 10:45

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	NeV, Pla	80, 267	Var	28	36
			12-3-13	DATE	
REGISTERED CIVIL ENGINEER			1-27-14 PLANS APPROVAL DATE		
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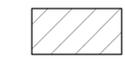


See "Roadway Plans" for transition from roadway to top of new polyester overlay



SODA SPRINGS OVERCROSSING

BR. NO. 17-0074, RTE 80, NEV, PM R2.48
 1' = 20'
 LOCATION 6
 Existing fiber optic lines beneath soffit have not been poltter.



Indicates limits of remove existing AC surfacing and membrane, AC thickness varies from 3/4"± to 2"±, remove unsound concrete, place rapid concrete setting patches, prepare concrete bridge deck surfaces, and place 1" polyester concrete overlay. For details, see "JOINT SEAL AND DECK REPAIR DETAILS" sheet.



Indicates limits of remove existing 3/4"± polyester concrete overlay, remove unsound concrete, place rapid setting concrete patches, prepare concrete bridge deck surface, and place 3/4"± polyester concrete overlay. For details, see "JOINT SEAL AND DECK REPAIR DETAILS" sheet.

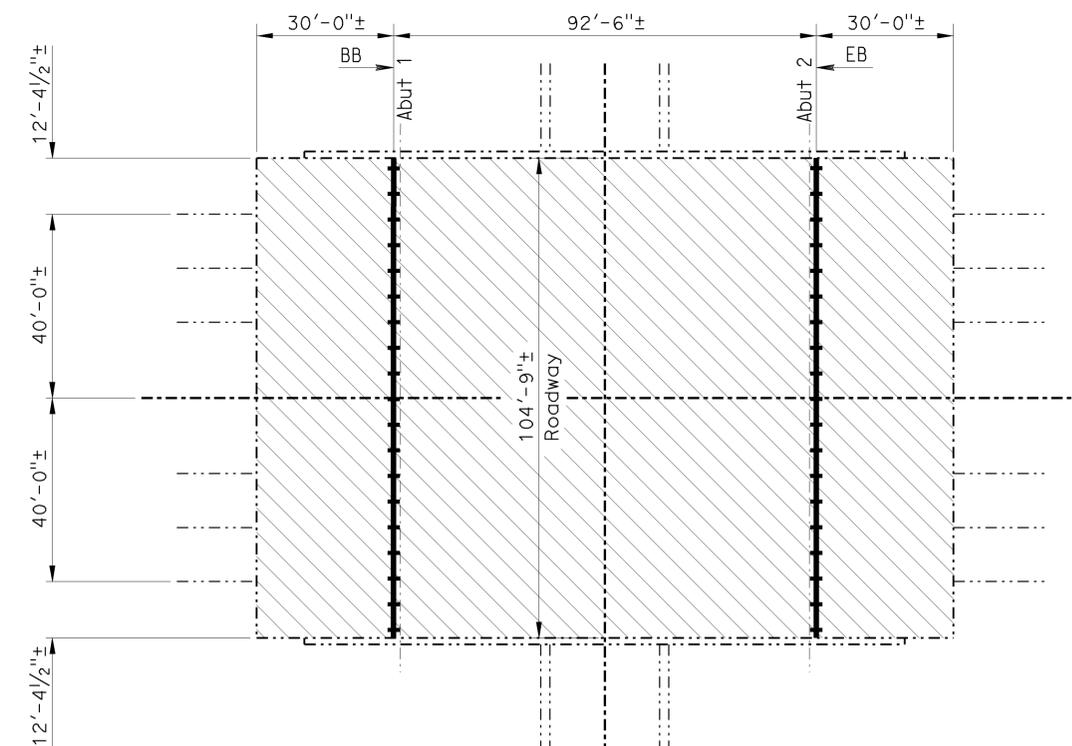


Indicates limits of clean expansion joint and install new joint seal and snow plow deflectors. For details, see "JOINT SEAL AND DECK REPAIR DETAILS" and "SNOW PLOW DEFLECTOR DETAILS" sheets.



Indicates limits of remove snow plow deflectors, clean expansion joint and install new joint seal and snow plow deflectors. For details, see "JOINT SEAL AND DECK REPAIR DETAILS" and "SNOW PLOW DEFLECTOR DETAILS" sheets.

For SECTION B-B, see "JOINT SEAL DETAILS NO. 1" sheet.



POLARIS UNDERCROSSING

BR. NO. 17-0102, RTE 80, NEV, PM 18.28
 1' = 20'
 LOCATION 7

SODA SPRINGS OC	QUANTITIES	BRIDGE NO 17-0074
RAPID SETTING CONCRETE (PATCH)	32 CF	
REMOVE ASPHALT CONCRETE SURFACING	12,630 SQFT	
REMOVE UNSOUND CONCRETE	32 CF	
PREPARE CONCRETE BRIDGE DECK SURFACE	12,630 SQFT	
FURNISH POLYESTER CONCRETE OVERLAY	1,265 CF	
PLACE POLYESTER CONCRETE OVERLAY	12,630 SQFT	
BRIDGE REMOVAL (PORTION), LOCATION A	LUMP SUM	
STRUCTURAL CONCRETE, BRIDGE	3 CY	
CLEAN EXPANSION JOINT	93 LF	
SNOWPLOW DEFLECTOR	14 EA	
JOINT SEAL (MR 1 1/2")	93 LF	

POLARIS UC	QUANTITIES	BRIDGE NO 17-0102
RAPID SETTING CONCRETE (PATCH)	40 CF	
REMOVE POLYESTER CONCRETE OVERLAY	15,980 SQFT	
REMOVE UNSOUND CONCRETE	40 CF	
PREPARE CONCRETE BRIDGE DECK SURFACE	15,980 SQFT	
FURNISH POLYESTER CONCRETE OVERLAY	1,200 CF	
PLACE POLYESTER CONCRETE OVERLAY	15,980 SQFT	
CLEAN EXPANSION JOINT	211 LF	
SNOWPLOW DEFLECTOR	38 EA	
JOINT SEAL (MR 1/2")	211 LF	

12-3-13 
 DESIGN ENGINEER

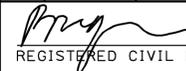
DESIGN	BY B. Nguyen	CHECKED H. Moazami	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY M. Hallstrom	CHECKED H. Moazami	LAYOUT	BY M. Hallstrom
QUANTITIES	BY B. Nguyen	CHECKED H. Moazami	SPECIFICATIONS	BY D. Klein

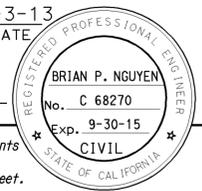
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIABLES
POST MILE	VARIOUS

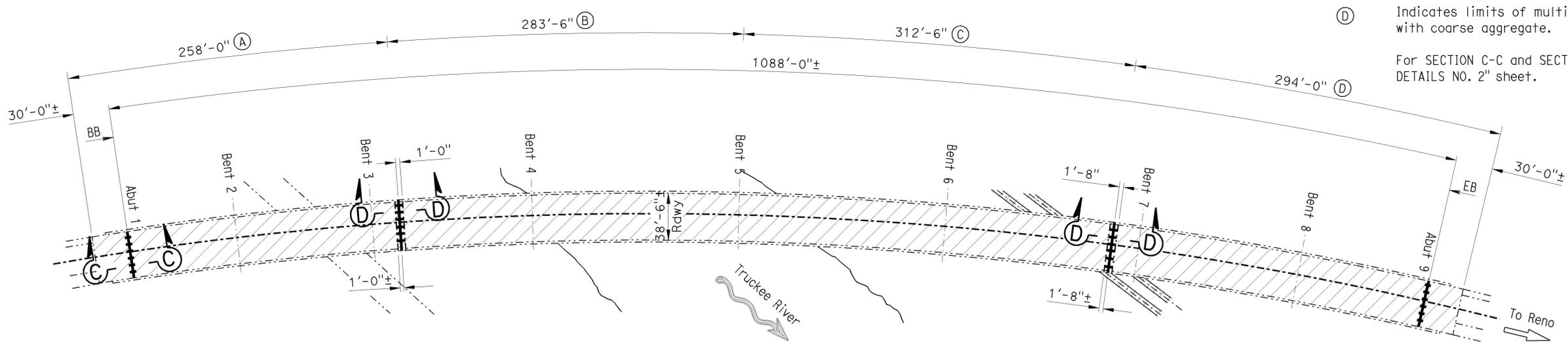
ROUTE 80 BRIDGES GENERAL PLAN NO. 4

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Nev, Pla	80,267	Var	29	36
 REGISTERED CIVIL ENGINEER			12-3-13	DATE	
PLANS APPROVAL DATE 1-27-14					
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BOCA BRIDGE AND OH	BRIDGE NO 17-0059R
QUANTITIES	
RAPID SETTING CONCRETE (PATCH)	111 CF
REMOVE POLYESTER CONCRETE OVERLAY	44,200 SQFT
REMOVE UNSOUND CONCRETE	111 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	88,400 SQFT
FURNISH POLYESTER CONCRETE OVERLAY	3,315 CF
PLACE POLYESTER CONCRETE OVERLAY	44,200 SQFT
MULTILAYER POLYESTER OVERLAY	44,200 SQFT
BRIDGE REMOVAL (PORTION), LOCATION B	LUMP SUM
STRUCTURAL CONCRETE, BRIDGE	6 CY
CLEAN EXPANSION JOINT	78 LF
SNOWPLOW DEFLECTOR	24 EA
JOINT SEAL (MR 1 1/2")	78 LF
BONDED JOINT SEAL (MR 2 1/2")	78 LF

- NOTES: (APPLY TO THIS SHEET ONLY)**
-  Indicates limits of remove existing 3/4"± polyester concrete overlay, remove unsound concrete, place rapid setting concrete patches, prepare concrete bridge deck surface, place 3/4"± polyester concrete overlay, prepare concrete bridge deck surface again and place multilayer polyester concrete overlay. For details, see "JOINT SEAL AND DECK REPAIR DETAILS" sheet.
 -  Indicates limits of remove snow plow deflectors, clean expansion joint and install new joint seal and snow plow deflectors. For details, see "JOINT SEAL AND DECK REPAIR DETAILS" and "SNOW PLOW DEFLECTOR DETAILS" sheets.
 - (A) Indicates limits of multilayer polyester concrete overlay with calcined bauxite aggregate.
 - (B) Indicates limits of multilayer polyester concrete overlay with copper slag aggregate.
 - (C) Indicates limits of multilayer polyester concrete overlay with basalt aggregate.
 - (D) Indicates limits of multilayer polyester concrete overlay with coarse aggregate.
- For SECTION C-C and SECTION D-D, see "JOINT SEAL DETAILS NO. 2" sheet.

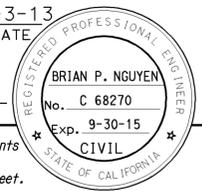



BOCA BRIDGE AND OVERHEAD
 BR. NO. 17-0059R, RTE 80, NEV, PM 22.41
 1' = 50'
 LOCATION 8

12-3-13  DESIGN ENGINEER	DESIGN	BY B. Nguyen	CHECKED H. Moazami	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	ROUTE 80 BRIDGES GENERAL PLAN NO. 5				
	DETAILS	BY M. Hallstrom	CHECKED H. Moazami	LAYOUT	BY M. Hallstrom		CHECKED X		VARIABLES			
	QUANTITIES	BY B. Nguyen	CHECKED H. Moazami	SPECIFICATIONS	BY D. Klein		PLANS AND SPECS COMPARED D. Klein		VARIOUS			
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	UNIT: 3488 PROJECT NUMBER & PHASE: 0313000027	CONTRACT NO.: 03-4M7101	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 5 OF 12

USERNAME => s137417 DATE PLOTTED => 11-DEC-2013 TIME PLOTTED => 10:45

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Nev, Pla	80, 267	Var	30	36
			REGISTERED CIVIL ENGINEER	DATE	
			12-3-13		
			PLANS APPROVAL DATE		
			1-27-14		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					



NOTES: (APPLY TO THIS SHEET ONLY)



Indicates limits of remove existing 3/4"± polyester concrete overlay, remove unsound concrete, place rapid setting concrete patches, prepare concrete bridge deck surface, and place 3/4"± polyester concrete overlay. For details, see "JOINT SEAL AND DECK REPAIR DETAILS" sheet.

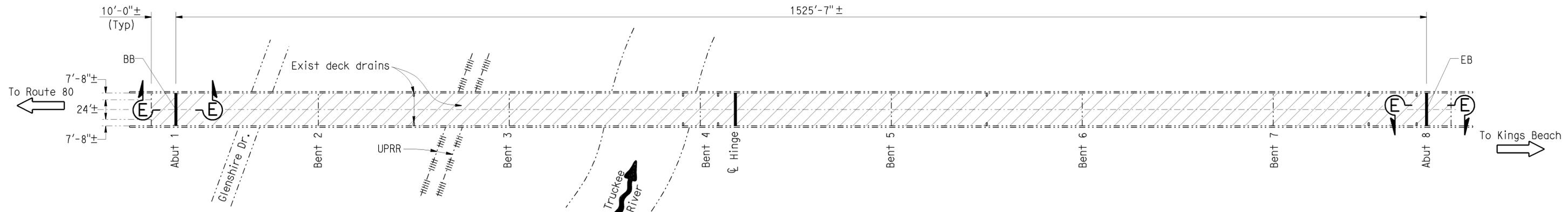


Indicates limits of remove existing joint seal assembly and install new joint seal assembly. For details, see "JOINT SEAL AND DECK REPAIR DETAILS" sheet and "MISCELLANEOUS DETAILS" sheet and "STRIP JOINT SEAL ASSEMBLY" sheet.

For SECTION D-D, see "MISCELLANEOUS DETALIS" sheet.

TRUCKEE RIVER BRIDGE AND OH BRIDGE NO 17-0098

QUANTITIES	
RAPID SETTING CONCRETE (PATCH)	152 CF
REMOVE POLYESTER CONCRETE OVERLAY	60,790 SQFT
REMOVE UNSOUND CONCRETE	152 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	60,790 SQFT
FURNISH POLYESTER CONCRETE OVERLAY	4,560 CF
PLACE POLYESTER CONCRETE OVERLAY	60,790 SQFT
BRIDGE REMOVAL (PORTION), LOCATION C	LUMP SUM
STRUCTURAL CONCRETE, BRIDGE	16 CY
JOINT SEAL ASSEMBLY (MR 3")	40 LF
JOINT SEAL ASSEMBLY (MR 4")	40 LF
JOINT SEAL ASSEMBLY (MR 8")	40 LF



TRUCKEE RIVER BOH

BR. NO. 17-0098, RTE 267, NEV, PM M0.39
 1' = 20'
 LOCATION 9
 Existing sewer line beneath soffit has not been plotted.

12-3-13 <i>Michael J. Lee</i> DESIGN ENGINEER	DESIGN	BY B. Nguyen	CHECKED H. Moazami	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTE 80 BRIDGES GENERAL PLAN NO. 6				
	DETAILS	BY M. Hallstrom	CHECKED H. Moazami	LAYOUT	BY M. Hallstrom			CHECKED X		VARIES			
	QUANTITIES	BY B. Nguyen	CHECKED H. Moazami	SPECIFICATIONS	BY D. Klein			PLANS AND SPECS COMPARED D. Klein		VARIOUS			
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3488	PROJECT NUMBER & PHASE: 0313000027	CONTRACT NO.: 03-4M7101	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 6	OF 12

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Nev, Pla	80,267	Var	31	36
			12-3-13		
			REGISTERED CIVIL ENGINEER		
			1-27-14	PLANS APPROVAL DATE	
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JOINT SEAL TABLE						
BRIDGE NAME	BRIDGE NUMBER	LOCATION		MINIMUM "MR" (inches)	APPROXIMATE LENGTH (feet)	EXISTING WATERSTOP
		Abutment	Span			
EAST AUBURN OVERHEAD	19-0071 *	Abut 1	BW	1 1/2	168.0	No
		Abut 3	BW	1 1/2	196.0	No
PUTTS LAKE UNDERCROSSING	19-0116L *	Abut 1	BW	1 1/2	45.0	No
		Abut 4	BW	1 1/2	45.0	No
BOCA BRIDGE AND OVERHEAD	17-0059R	Abut 1	BW *	1 1/2	39.0	No
		Span 3	H ***	2 1/2	39.0	No
		Span 6	H ***	2 1/2	39.0	No
POLARIS UNDERCROSSING	17-0102 *	Abut 9	BW *	1 1/2	39.0	No
		Abut 1	BW	1 1/2	105.5	No
NEW ENGLAND OVERHEAD	19-0075 *	Abut 2	BW	1 1/2	105.5	No
		Abut 1	BW	1	205.5	No
SODA SPRINGS OVERCROSSING	17-0074 *	Bent 2	-	1	68.0	No
		-	-	1	87.5	No
		Bent 3	-	1	68.0	No
TRUCKEE RIVER	17-0098 **	Abut 4	BW	1	205.5	No
		Abut 1	BW	1 1/2	46.5	No
TRUCKEE RIVER BRIDGE	17-0098 **	Abut 6	BW	1 1/2	46.5	No
		Abut 1	BW	3	40.0	No
TRUCKEE RIVER BRIDGE	17-0098 **	Hinge	H	8	40.0	No
		Abut 8	BW	4	40.0	No

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

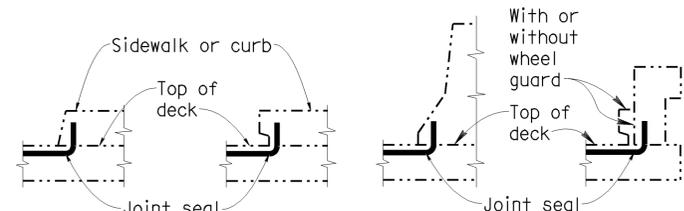
DECK REPAIR TABLE			
BRIDGE NAME	BRIDGE NUMBER	APPROXIMATE AREA DAMAGED (PERCENT)	APPROXIMATE DEPTH (INCHES)
SODA SPRINGS OVERCROSSING	17-0074	1	3
PUTTS LAKE UNDERCROSSING	19-0116L	1	3
POLARIS UNDERCROSSING	17-0102	1	3
BOCA BRIDGE AND OVERHEAD	17-0059R	1	3
TRUCKEE RIVER BRIDGE	17-0098	1	3

TEMPORARY DECKING DESIGN LOADING		
MOMENT DEMAND/FOOT (kip-ft/ft)	ANCHOR BOLT SHEAR/FOOT (kip/ft)	ANCHOR BOLT TENSION (kip)
10	8	8

Plate deflection shall not exceed s/30 (s = span of plate). Maximum anchor bolt spacing = 0'-9".

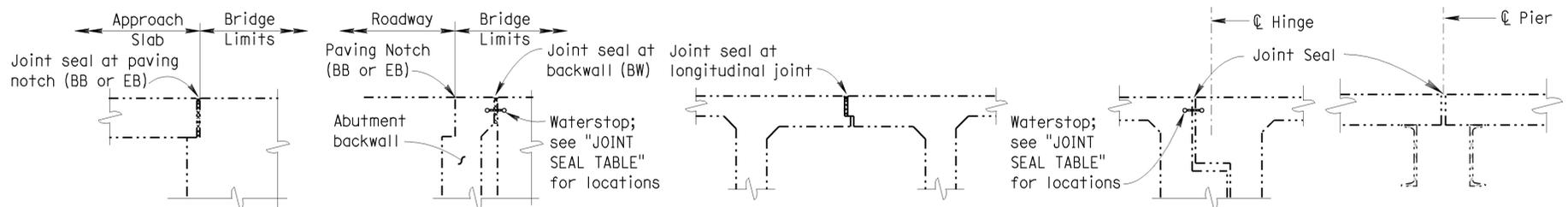
BR. NO. 17-0074, 17-0059R

LEGEND:
 BW = Backwall
 H = Hinge
 * = Requires Type B joint seal
 ** = Requires Joint Seal Assembly
 *** = Requires Bonded Joint Seal



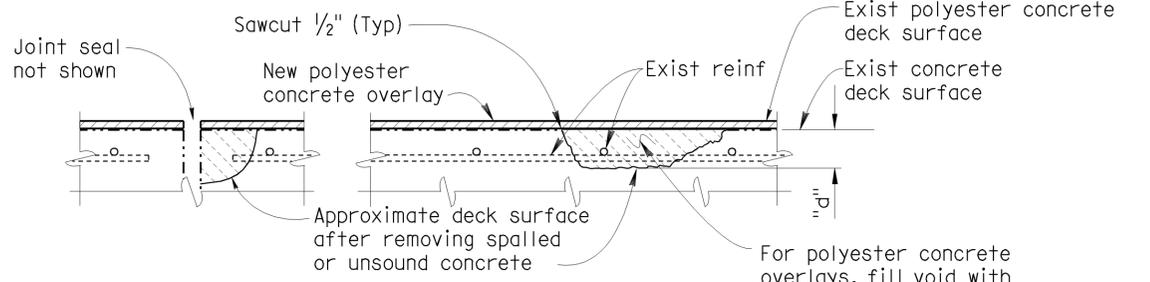
SIDEWALK OR CURB JOINT SEAL AT LOW SIDE OF DECK
BARRIER RAIL JOINT SEAL AT LOW SIDE OF DECK

Details shown for illustration purposes only. For use only where deck joint matches the barrier rail joint.
 NO SCALE



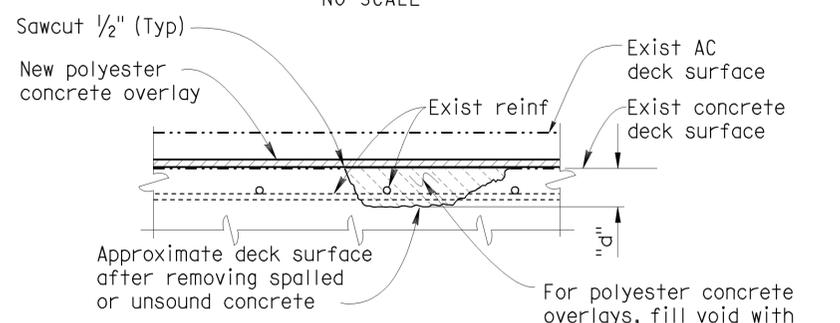
DIAPHRAGM ABUTMENT ABUTMENT WITH BACKWALL LONGITUDINAL JOINT HINGE PIER JOINT SEAL LOCATION

NO SCALE



DECK REPAIR DETAIL

Reinforcement may be encountered during deck concrete removal.
 BR. NO. 17-0102, 17-0059R, 19-0116L & 17-0098
 NO SCALE



DECK REPAIR DETAIL

Reinforcement may be encountered during deck concrete removal.
 BR. NO. 17-0074
 NO SCALE

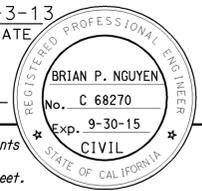
DESIGN	BY B. Nguyen	CHECKED H. Moazami
DETAILS	BY M. Hallstrom	CHECKED H. Moazami
QUANTITIES	BY B. Nguyen	CHECKED H. Moazami

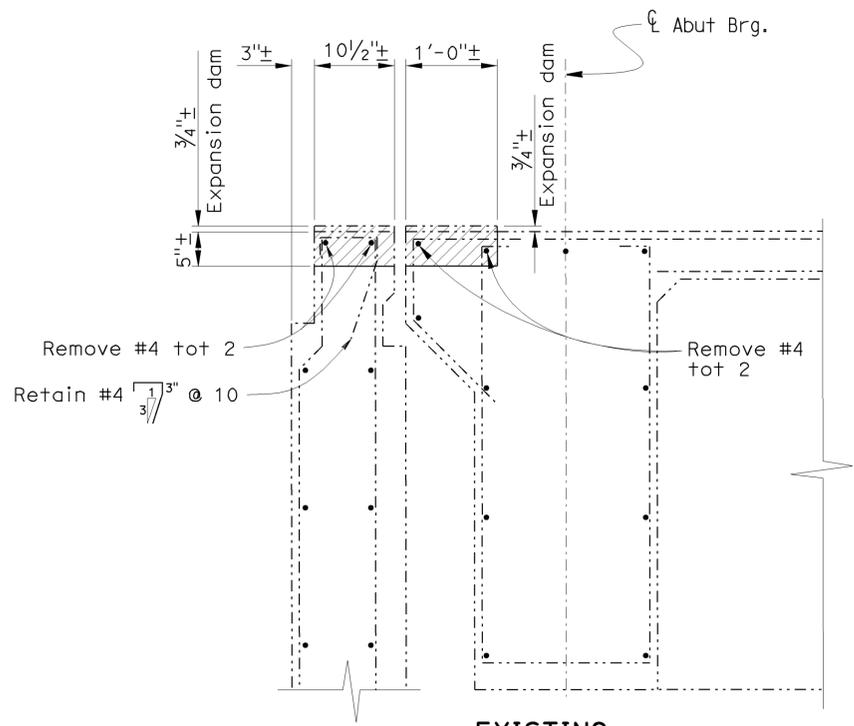
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

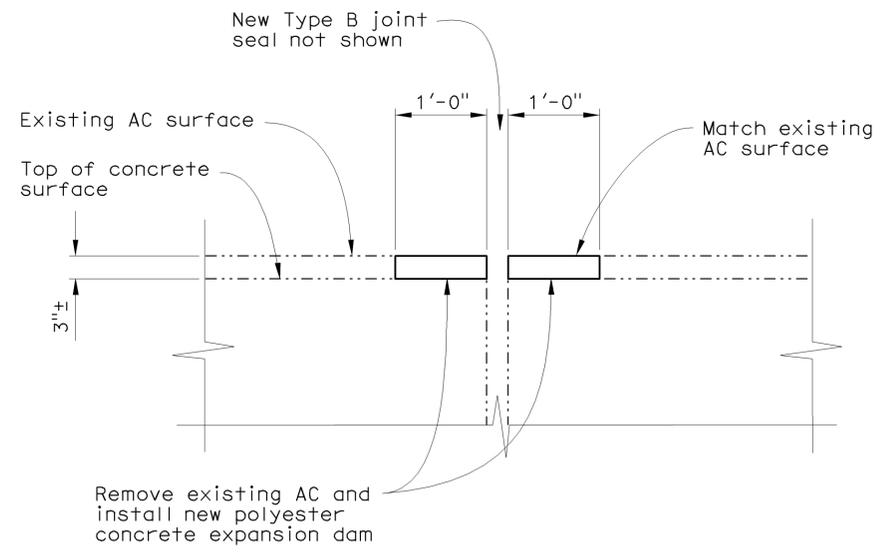
BRIDGE NO.	VARIES
POST MILE	VARIOUS

ROUTE 80 BRIDGES
 JOINT SEAL AND DECK REPAIR DETAILS

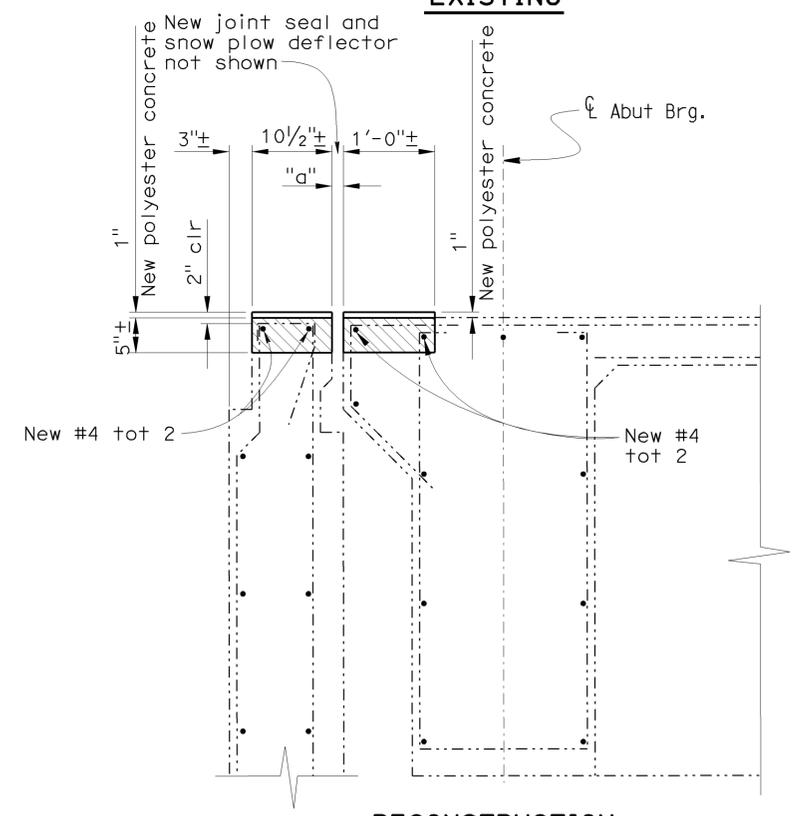
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Nev, Pla	80,267	Var	32	36
 REGISTERED CIVIL ENGINEER			12-3-13	DATE	
1-27-14			PLANS APPROVAL DATE		
					
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- NOTES: (APPLY TO THIS SHEET ONLY)
-  Indicates remove existing concrete and expansion dam.
 -  Indicates new structure concrete.
 - "a" Exact width to be determined by the Engineer.



SECTION A-A
BR. NO. 19-0075
1" = 1'-0"



RECONSTRUCTION
SECTION B-B
BR. NO. 17-0074
1" = 1'-0"

DESIGN	BY B. Nguyen	CHECKED H. Moazami
DETAILS	BY M. Hallstrom	CHECKED H. Moazami
QUANTITIES	BY B. Nguyen	CHECKED H. Moazami

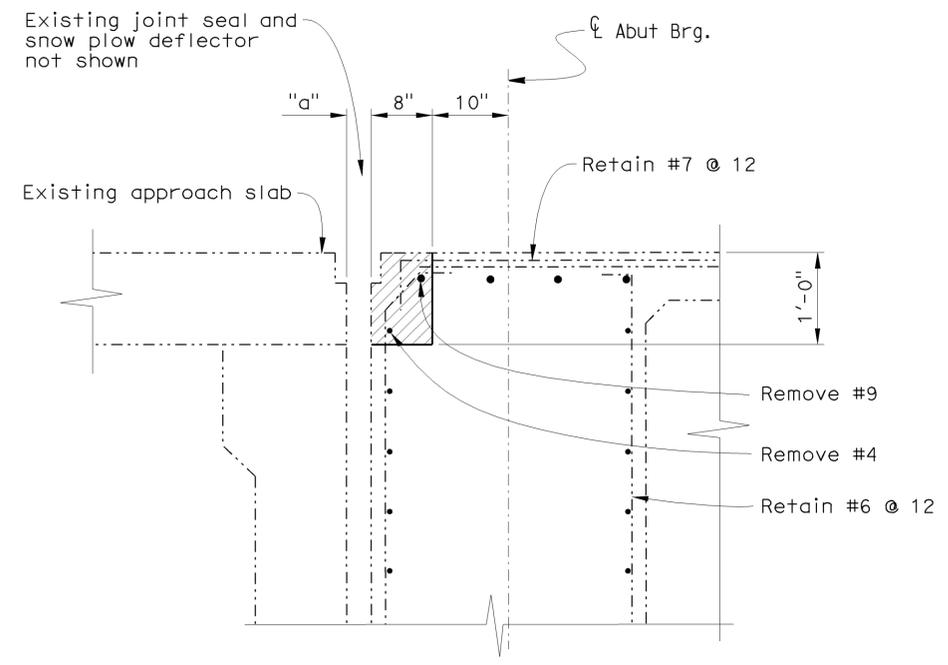
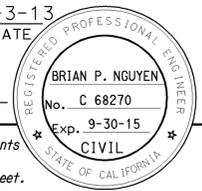
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

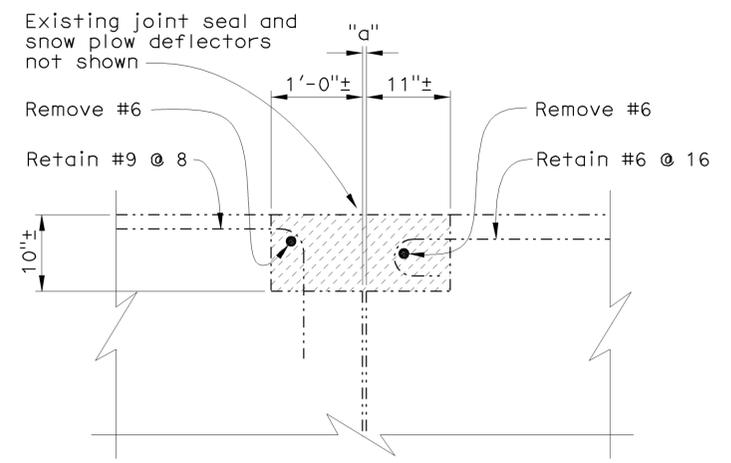
BRIDGE NO.	VARIES
POST MILE	VARIOUS

ROUTE 80 BRIDGES
JOINT SEAL DETAILS NO. 1

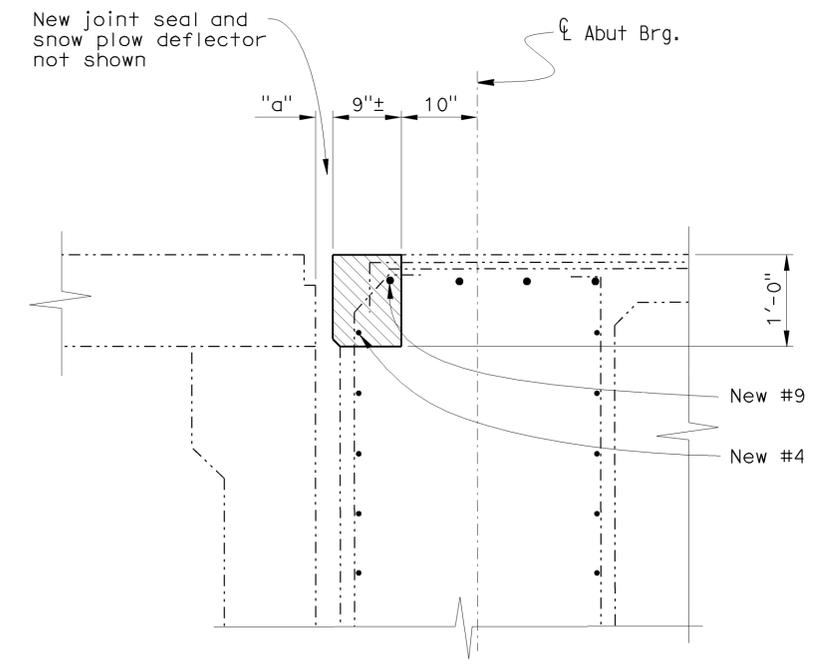
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Nev, Pla	80,267	Var	33	36
			12-3-13	DATE	
REGISTERED CIVIL ENGINEER			DATE		
1-27-14			PLANS APPROVAL DATE		
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EXISTING



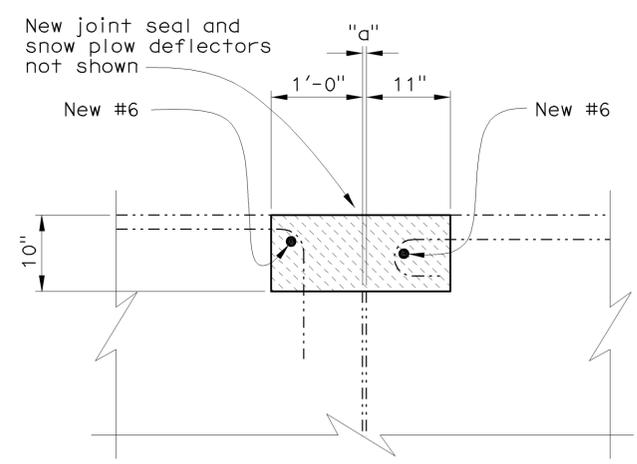
EXISTING



RECONSTRUCTION

SECTION C-C

BR. NO. 17-0059R
1" = 1'-0"



RECONSTRUCTION

SECTION D-D

BR. NO. 17-0059R
NO SCALE

- NOTES:** (APPLY TO THIS SHEET ONLY)
-  Indicates remove existing concrete and expansion dam.
 -  Indicates new structure concrete.
 -  Indicates remove existing concrete, joint seal assembly and snow plow deflectors.
 -  Indicates new structure concrete portion, Bonded joint seal and snow plow deflectors.
 - "a" Exact width to be determined by the Engineer.

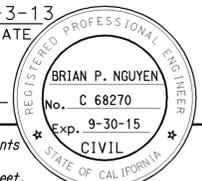
DESIGN	BY B. Nguyen	CHECKED H. Moazzami
DETAILS	BY M. Hallstrom	CHECKED H. Moazzami
QUANTITIES	BY B. Nguyen	CHECKED H. Moazzami

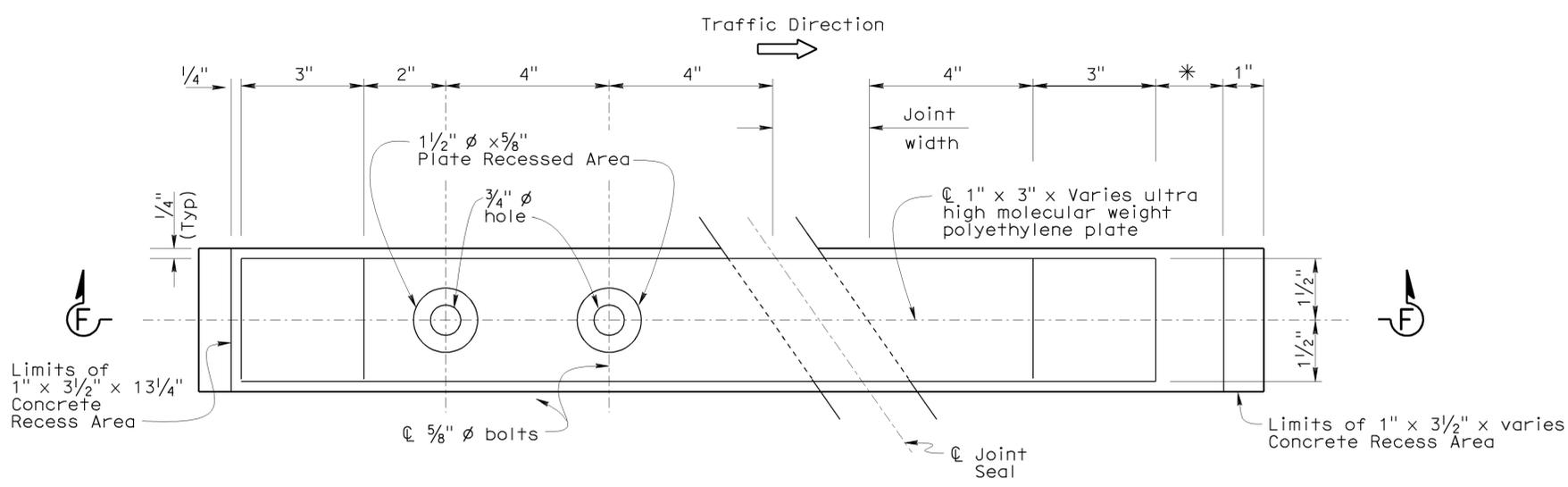
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIES
POST MILE	VARIOUS

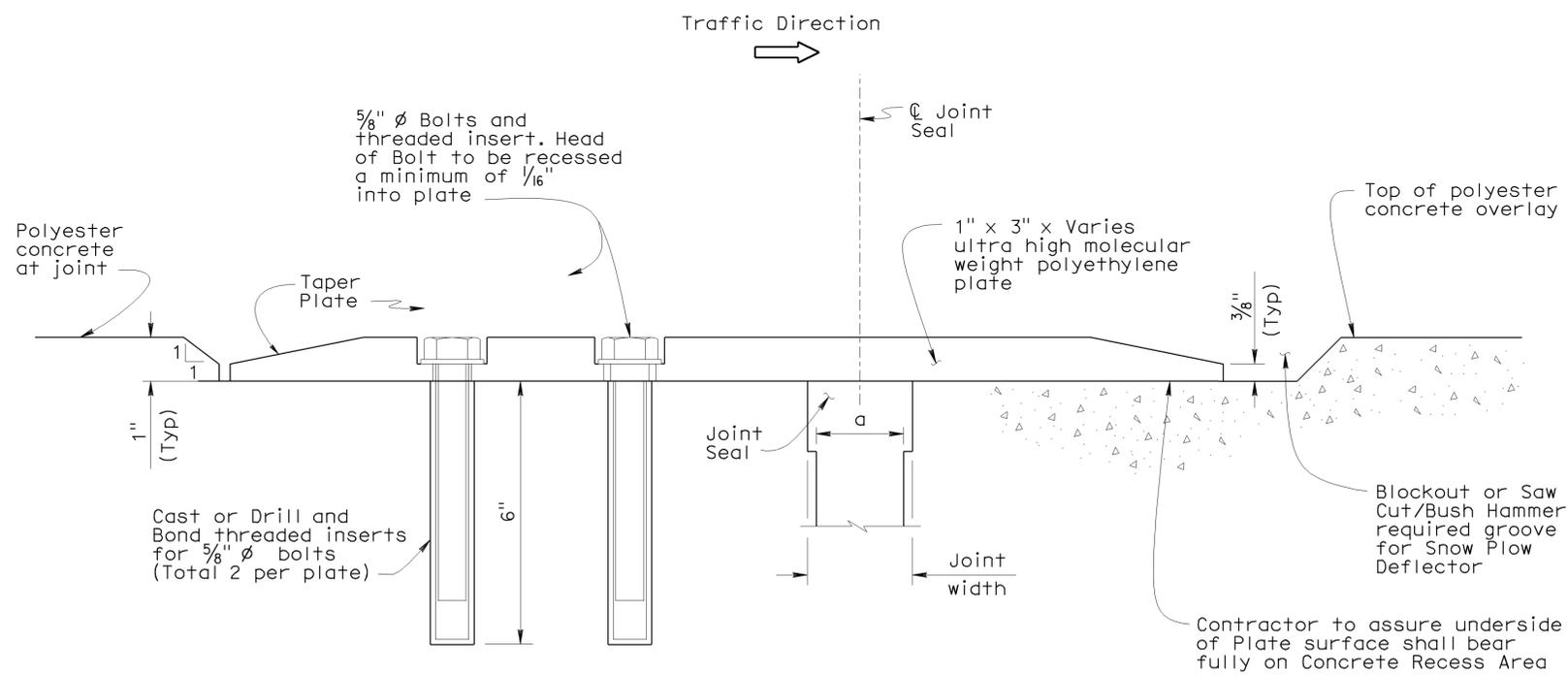
ROUTE 80 BRIDGES
JOINT SEAL DETAILS NO. 2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Nev, Pla	80,267	Var	34	36
 REGISTERED CIVIL ENGINEER			12-3-13	DATE	
PLANS APPROVAL DATE 1-27-14					
					
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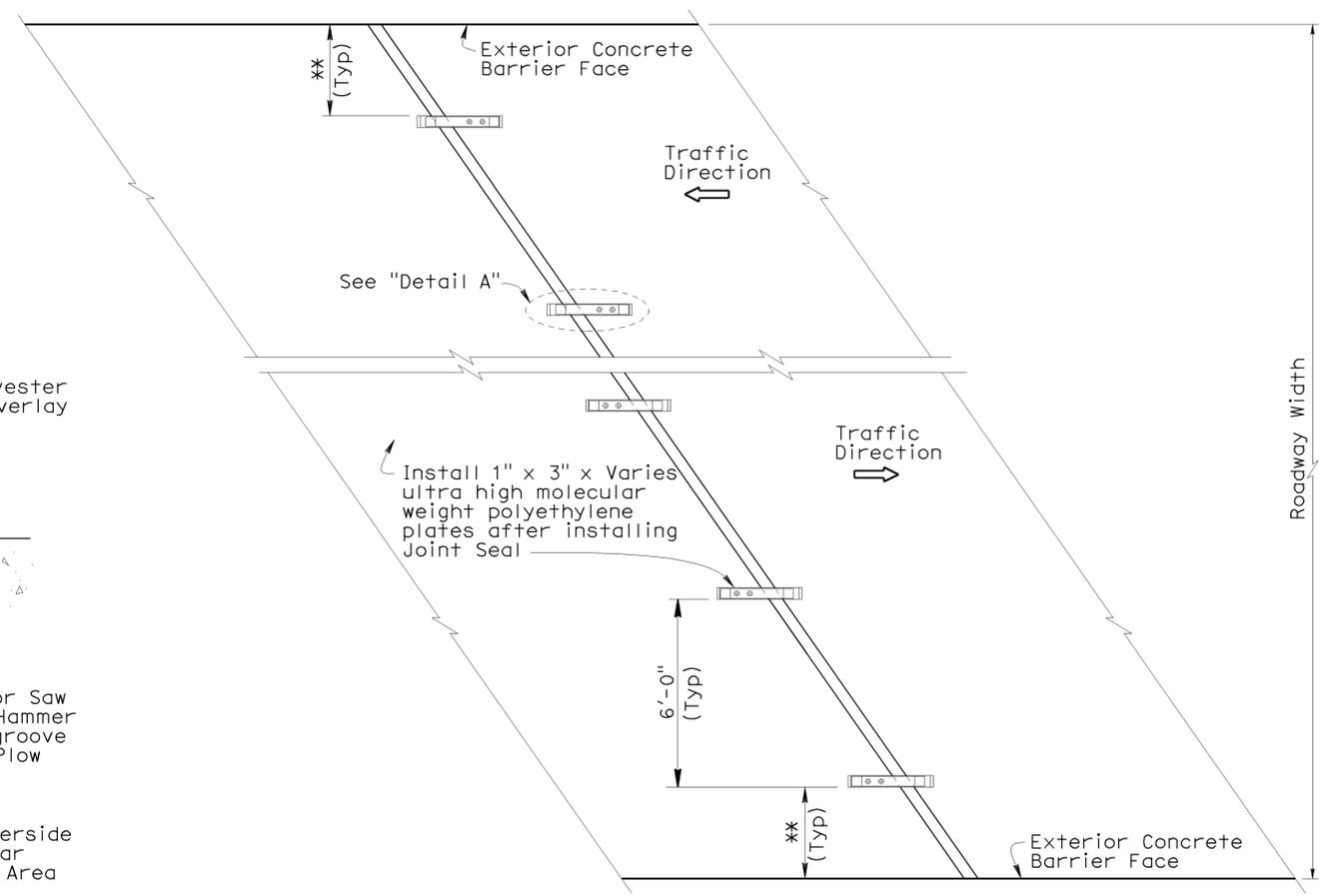


* "a" dimension plus 3/8"

DETAIL A
6"=1'-0"



SECTION F-F
6"=1'-0"

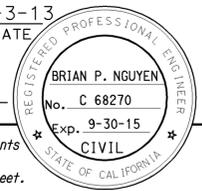


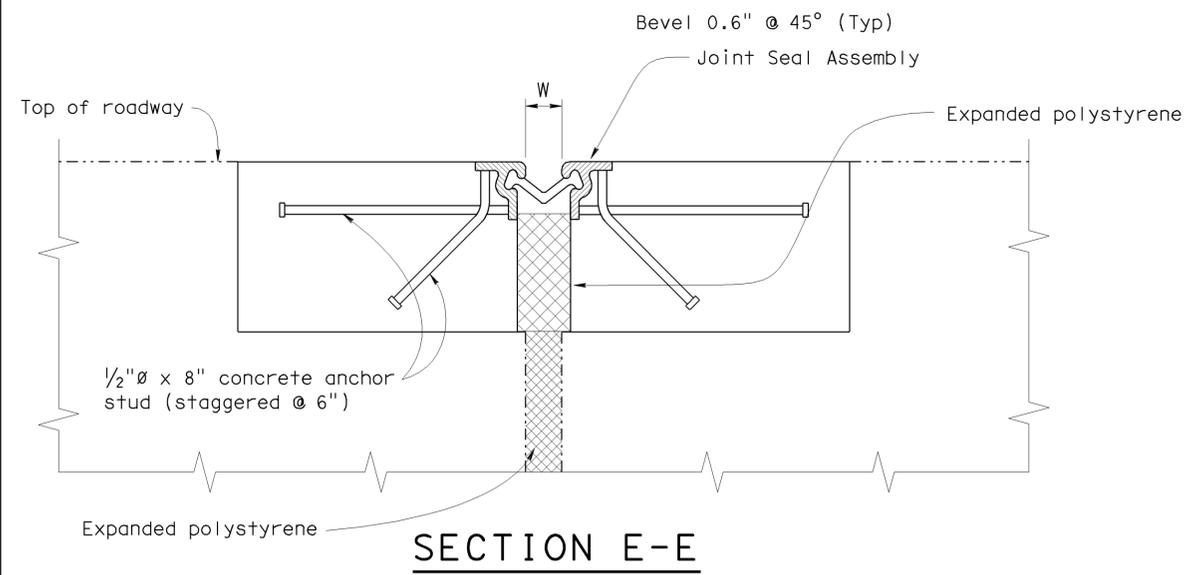
SNOW PLOW DEFLECTOR PLAN
1/2"=1'-0"

- ** 2'-0" BR. NO. 17-0074
- 4'-0" BR. NO. 19-0116L
- 6'-4" BR. NO. 17-0102
- 5'-3" BR. NO. 17-0059R

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

STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY B. Nguyen	CHECKED H. Moazami	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTE 80 BRIDGES SNOW PLOW DEFLECTOR DETAILS
	DETAILS	BY M. Hallstrom	CHECKED H. Moazami			VARIABLES	
	QUANTITIES	BY B. Nguyen	CHECKED H. Moazami			VARIOUS	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				UNIT: 3488 PROJECT NUMBER & PHASE: 0313000027	CONTRACT NO.: 03-4M7101	DISREGARD PRINTS BEARING EARLIER REVISION DATES	
				0 1 2 3			REVISION DATES 5-10-13
				FILE => 03-4m7101_10-snowplow-10.dgn		SHEET 10	OF 12

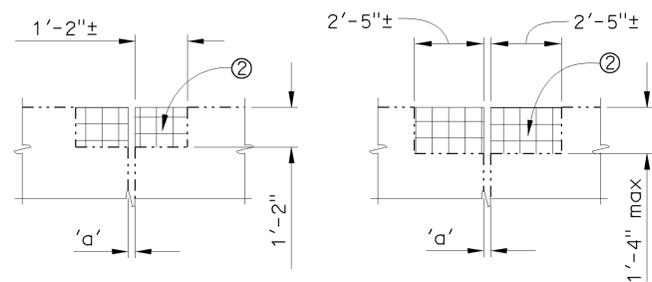
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Nev, Pla	80,267	Var	35	36
				12-3-13	DATE
REGISTERED CIVIL ENGINEER				PLANS APPROVAL DATE	
1-27-14				DATE	
					
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SECTION E-E

NO SCALE

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



ABUT 1 & 8

SPAN 4 HINGE

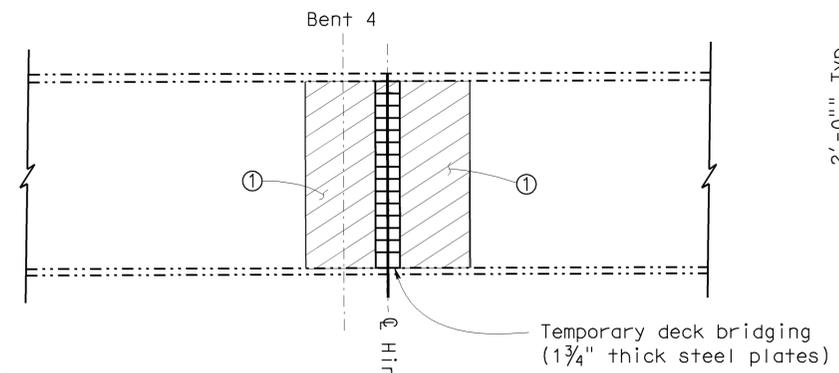
BLOCK OUT DETAIL

NO SCALE

Remove existing cold joint blockout concrete.

* TO SET MINIMUM JOINT OPENING "W"

$$W = \begin{cases} \frac{1}{2} + [(Max\ Str\ temperature\ in\ F^\circ) - (actual\ Str\ temperature\ in\ F^\circ)] * (a_c\ or\ a_s) * (12) * (contributory\ L\ in\ feet) \\ \frac{1}{2} \text{ Minimum} \\ a_c = 0.0000060 \\ a_s = 0.0000065 \end{cases}$$

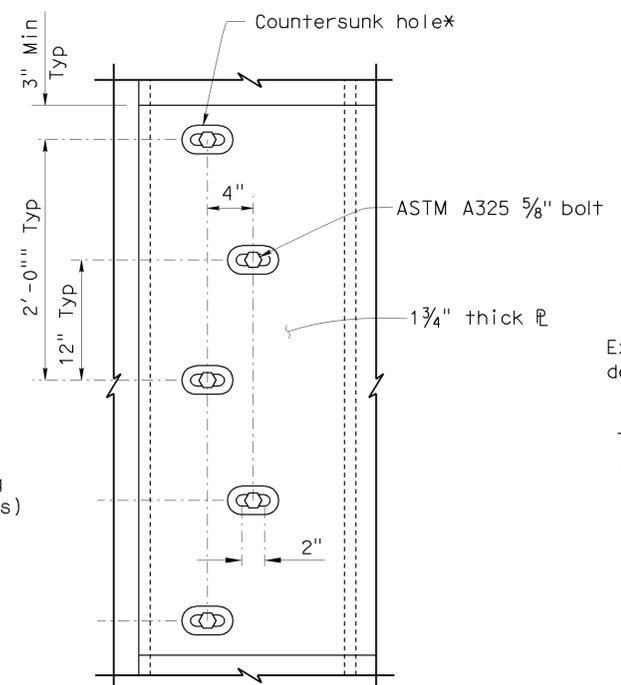


CONCRETE TAPER DETAIL

No Scale

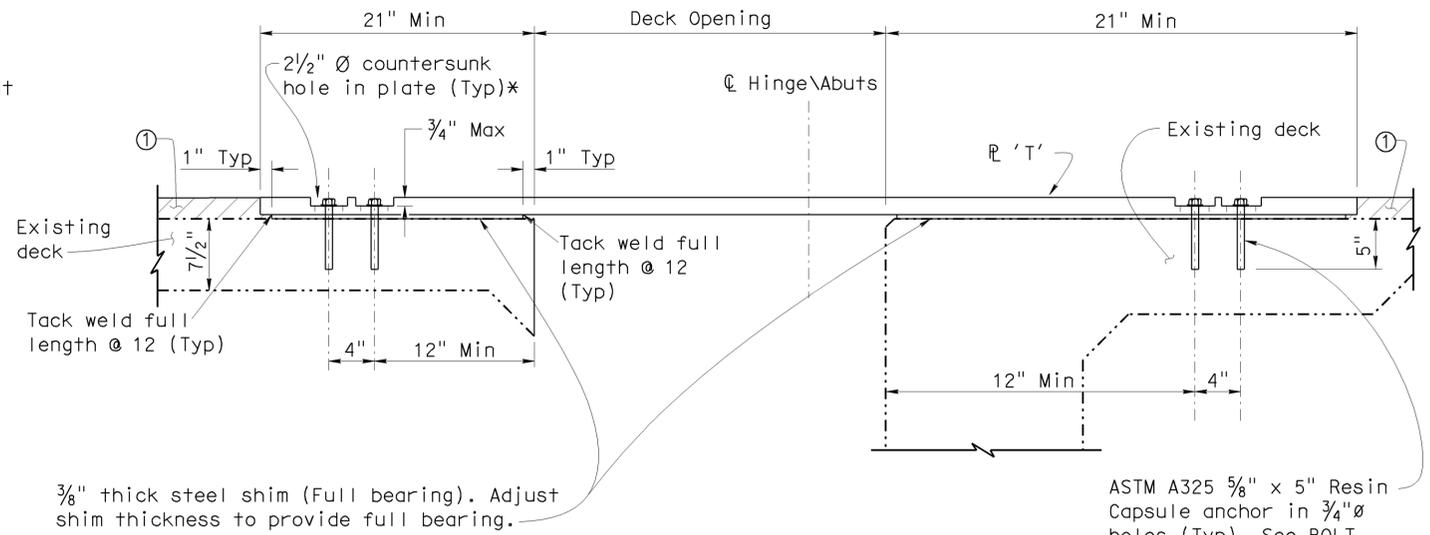
Span 4 hinge shown, abutments similar

- Note:
- ① Place tapered 200:1 (leading / trailing edge = 1/2" thick Max) rigid pavement material at approach and departure of construction.
 - ② Retain all existing longitudinal reinforcement.



BOLT STAGGER DETAIL

1 1/2" = 1'-0"



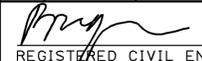
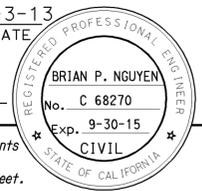
TEMPORARY DECK PLATE CONNECTION

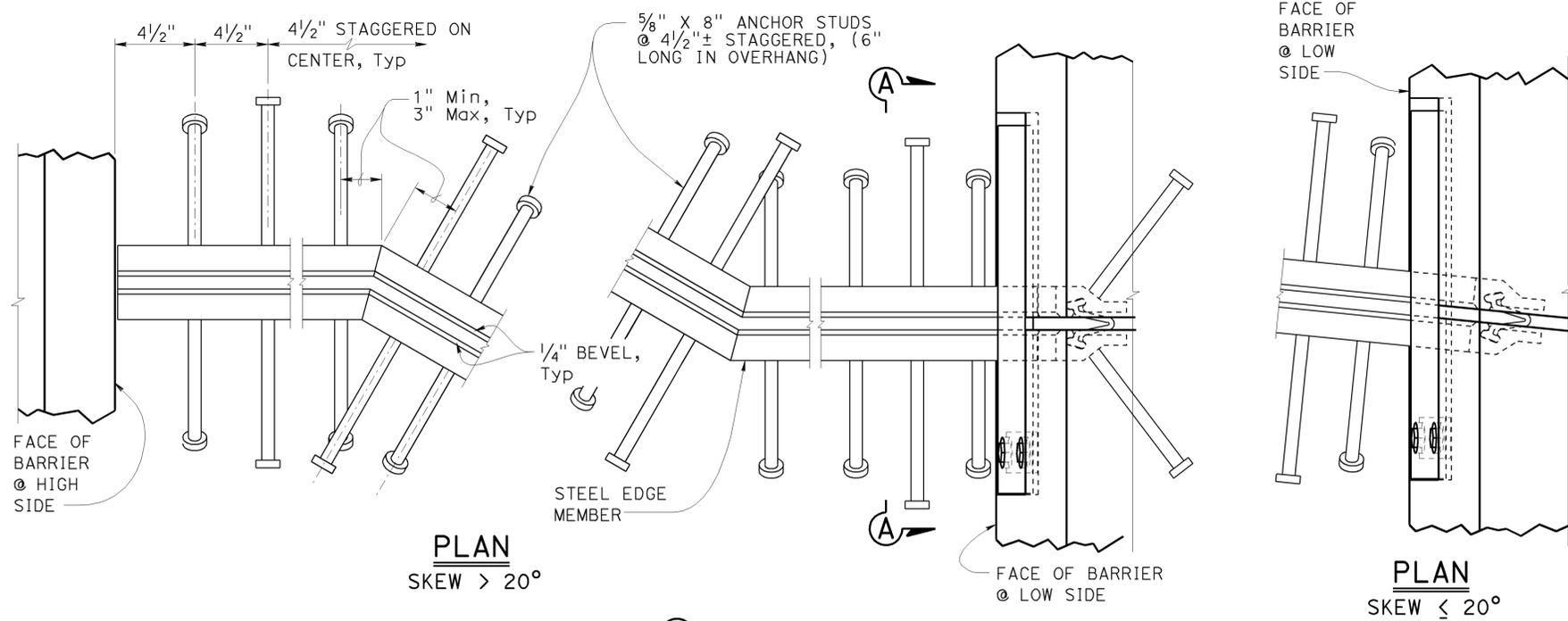
BR. NO. 17-0098
NO SCALE

'T' = 2 1/8" for span 4 hinge.
'T' = 1 1/2" for abutments.

ASTM A325 5/8" x 5" Resin Capsule anchor in 3/4"Ø holes (Typ). See BOLT STAGGER DETAIL

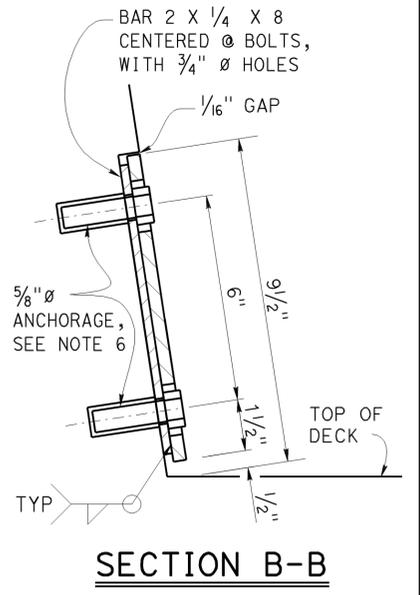
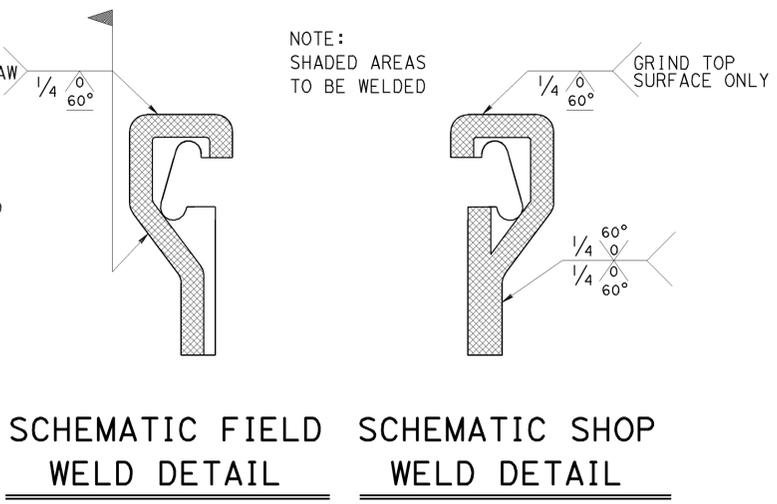
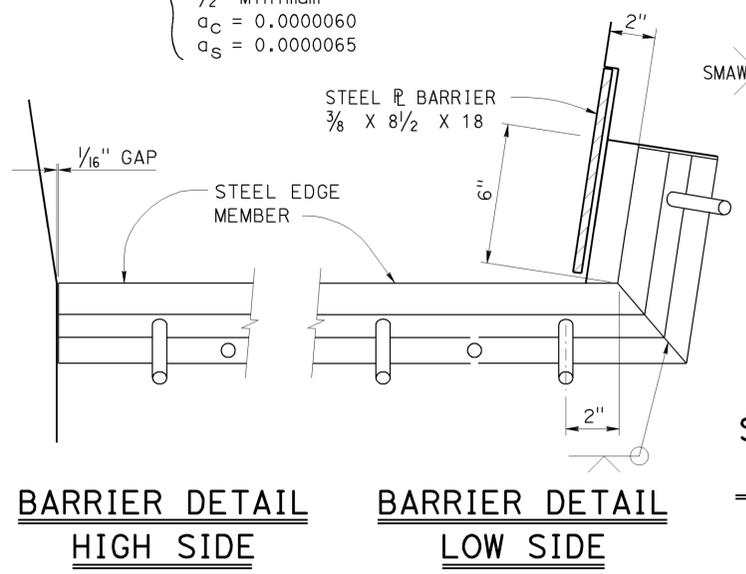
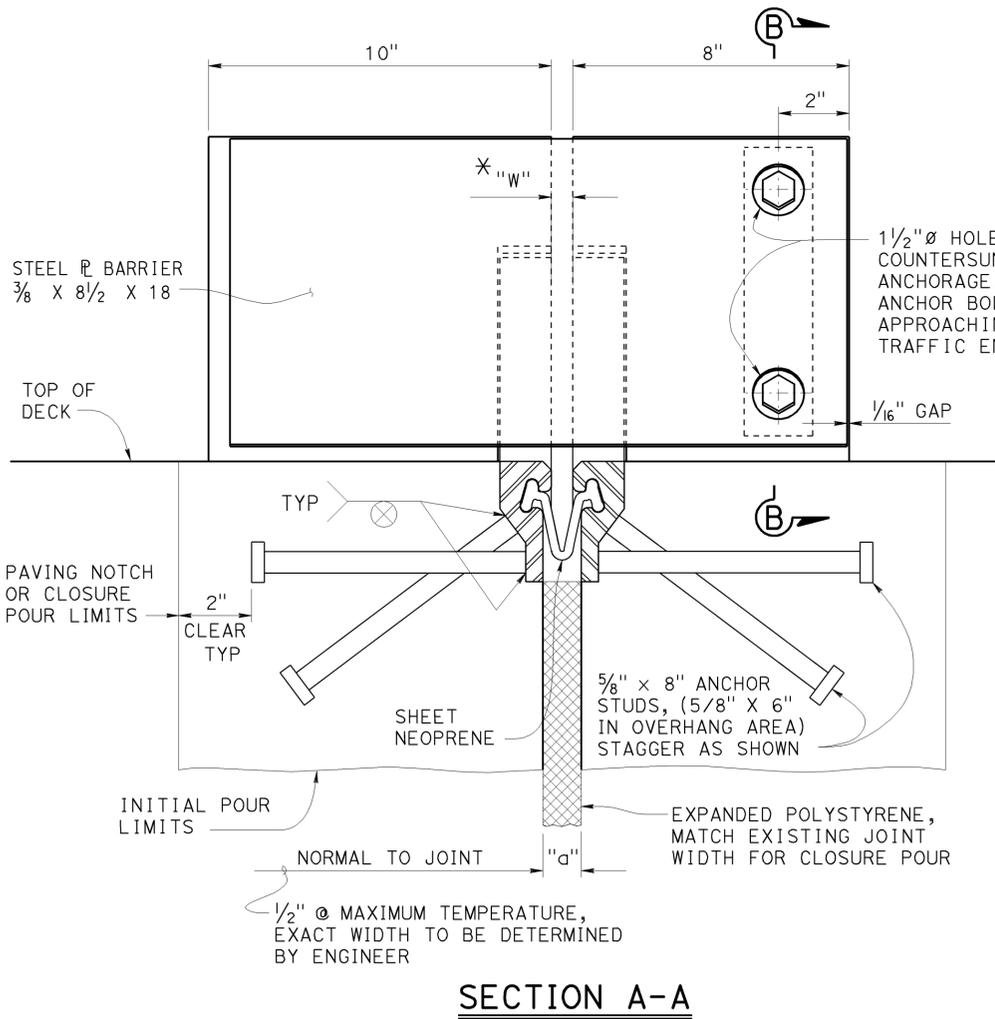
STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY B. Nguyen	CHECKED H. Moazzami	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTE 80 BRIDGES		
	DETAILS	BY M. Hallstrom	CHECKED H. Moazzami			17-0098	MISCELLANEOUS DETAILS		
	QUANTITIES	BY B. Nguyen	CHECKED H. Moazzami			MO.39			
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				UNIT: 3488 PROJECT NUMBER & PHASE: 0313000027		CONTRACT NO.: 03-4M7101		DISREGARD PRINTS BEARING EARLIER REVISION DATES	
				0 1 2 3		5-10-13		SHEET	OF
								11	12

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Nev, Pla	80,267	Var	36	36
			12-3-13	DATE	
REGISTERED CIVIL ENGINEER			1-27-14 PLANS APPROVAL DATE		
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SCHEMATIC STEEL EDGE MEMBER

- NOTES:
- Alternatively, fillet or complete penetration welds may be used at anchor studs.
 - Alternate types of anchor studs may be permitted subject to the authorization by the Engineer.
 - Joint seal assembly to be used in conjunction with closure pour. (See other sheets for limits). Closure pour shall not be placed until final deck surface is within the tolerances specified.
 - Use joint at crown of roadway, at any change in traverse slope in deck and at changes in horizontal direction. Place other joints at or near lanes. All metal parts to be painted or galvanized after fabrication.
 - Sheet Neoprene shall be fabricated in one continuous piece and shall be fabricated to bend around corners. Field splices of the neoprene are not allowed.
 - Insert assembly or expansion anchorage for 5/8" x 1 3/4" bolts. Use installation bolts extended 1/2" minimum past nut and coat with bond breaker, after concrete has cured, remove installation bolts, install HS bolts and sheet neoprene.
 - Sidewalk Detail similar to Barrier Detail on low side at both sides if the roadway is crowned or if the difference in elevation between the ends of the seal is 0.5' or less.
 - a_c, a_s, are the thermal expansion coefficients for concrete and steel respectively.
 - Anchor studs shall conform to ASTM 108.



STANDARD DRAWING		STATE OF CALIFORNIA		DIVISION OF ENGINEERING SERVICES		BRIDGE NO. 17-0098		ROUTE 80 BRIDGES	
FILE NO. xs8-010	APPROVAL DATE September 2013	DEPARTMENT OF TRANSPORTATION		PROJECT NUMBER & PHASE: 0313000027		POST MILE M0.39		STRIP JOINT SEAL ASSEMBLY	
DS OSD 2147A (ENGLISH STANDARD DRAWING "XS" BORDER REV. (02-02-11))		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3488		CONTRACT NO.: 03-4m7101		MAXIMUM MOVEMENT RATING = 4"	
				DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES		SHEET 12 OF 12	
				FILE => 03-4m7101_12-xs8-010.dgn					