

INDEX OF PLANS

SHEET NO.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	CONSTRUCTION DETAILS
3-5	CONSTRUCTION AREA SIGNS
6	PAVEMENT DELINEATION QUANTITIES
7	SUMMARY OF QUANTITIES
8-13	REVISED STANDARD PLANS

STRUCTURE PLANS
14-23 STRUCTURE PLANS

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

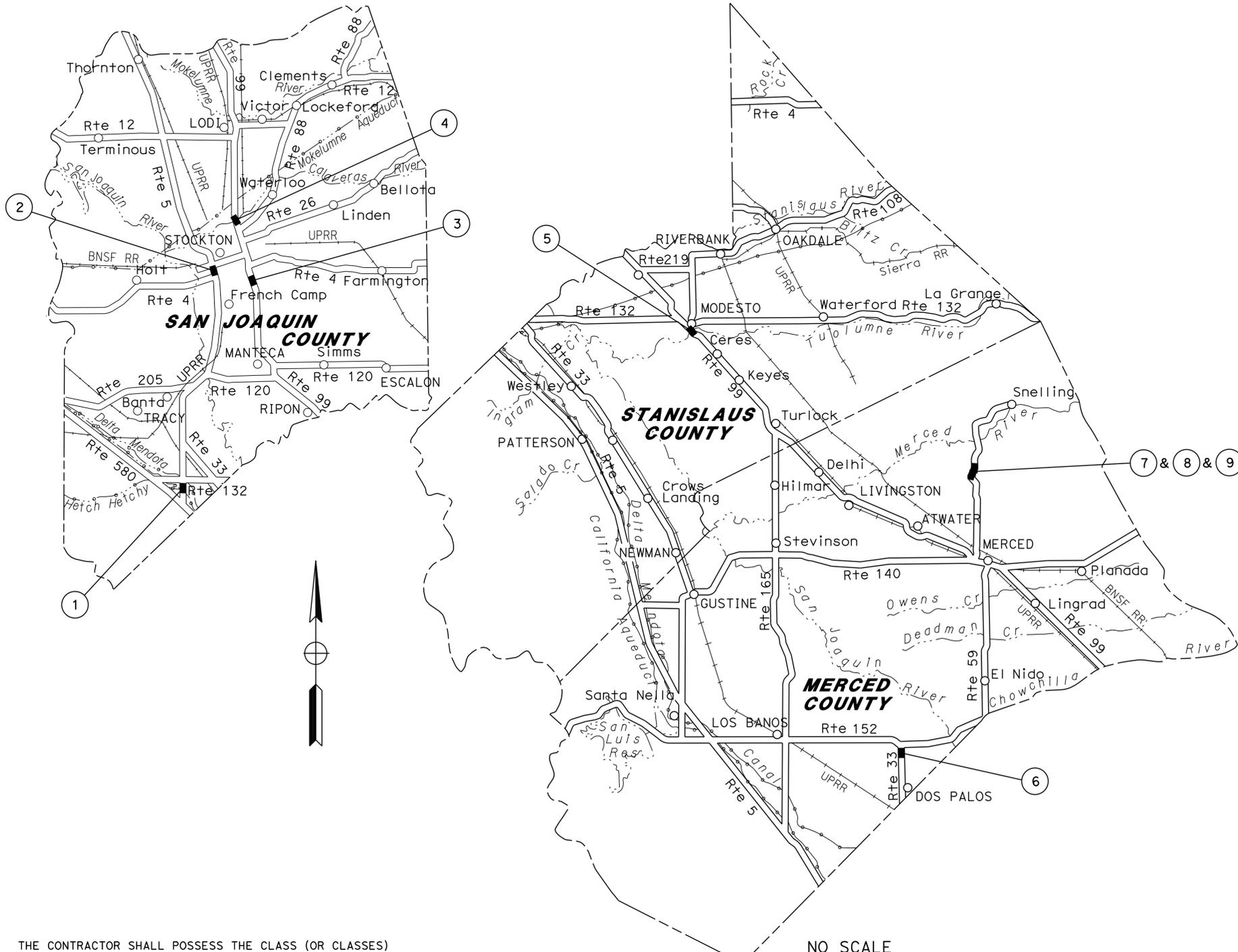
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN MERCED, SAN JOAQUIN, AND STANISLAUS COUNTIES
AT VARIOUS LOCATIONS

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mer, SJ, Sta	5, 33, 59, 99	Var	1	23

LOCATION MAP



LOCATIONS OF CONSTRUCTION

Loc No.	COUNTY	ROUTE	PM	STRUCTURE NAME	BRIDGE No.
1			2.46	BLEWETT ROAD OC	29-0243
2	SJ	5	26.11	N&S5-E4 CONNECTOR UC	29-0239H
3			14.61	ARCH ROAD UC	29-0316
4			21.79	CALAVERAS RIVER	29-0008R
5	Sta	99	R15.37	SIERRA DRIVE OC	38-0095
6	Mer	33	4.37	POSO SLOUGH	39-0054
7			24.09	EDENDALE CREEK	39-0069
8			25.45	ESCALADIAN CANAL	39-0109
9			26.05	CANAL CREEK	39-0070

PROJECT MANAGER
ALVIN MANGINDIN

DESIGN MANAGER
ALVIN MANGINDIN



NO SCALE

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

Rhodel DeClaro 02/25/15
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

February 23, 2015
PLANS APPROVAL DATE

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

CONTRACT No.	10-0Y8504
PROJECT ID	1014000094

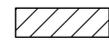
DATE PLOTTED => 03-MAR-2015
TIME PLOTTED => 16:24
LAST REVISION 02-25-15

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 MAINTENANCE
 FUNCTIONAL SUPERVISOR
 ALVIN MANGINDIN
 CALCULATED/DESIGNED BY
 CHECKED BY
 RHODEL DE CLARO
 JOSE A. ALICEA II
 REVISED BY
 DATE REVISED
 RDC
 02/25/15

NOTES:

1. DIMENSIONS OF PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
3. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
4. FOR COLD PLANE AC PAVEMENT DIMENSIONS AND LOCATIONS, SEE SUMMARY OF QUANTITIES SHEET.

LEGEND:

-  - COLD PLANE AC PAVEMENT
-  - COLD PLANE AC PAVEMENT HMA (TYPE A)

PAVEMENT CLIMATE REGION

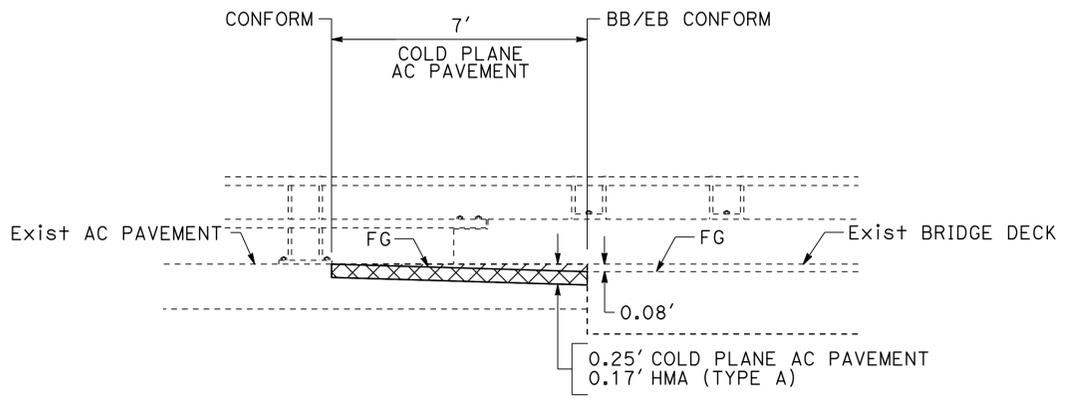
INLAND VALLEY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mer,SJ Sta	5,33, 59,99	Var	2	23

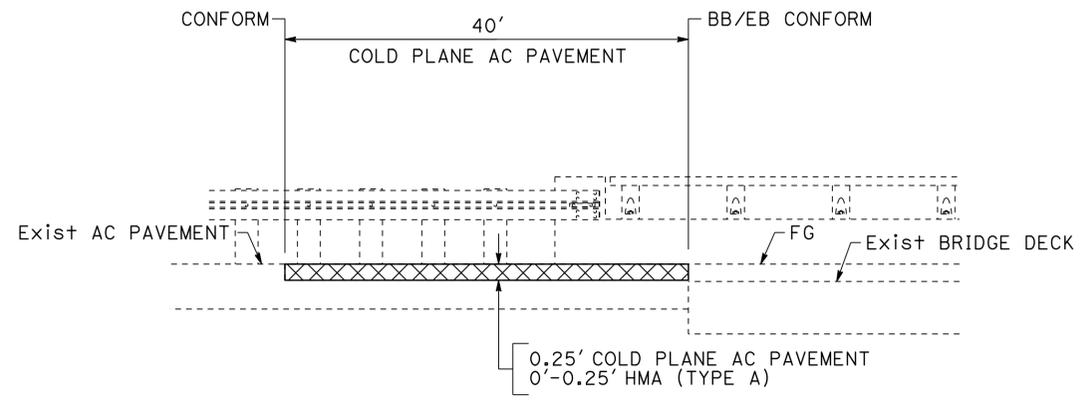
Rhodel DeClaro 02/25/15
 REGISTERED CIVIL ENGINEER DATE
 2-23-15
 PLANS APPROVAL DATE

RHODEL De CLARO
 No. 74058
 Exp. 6/30/15
 CIVIL
 STATE OF CALIFORNIA

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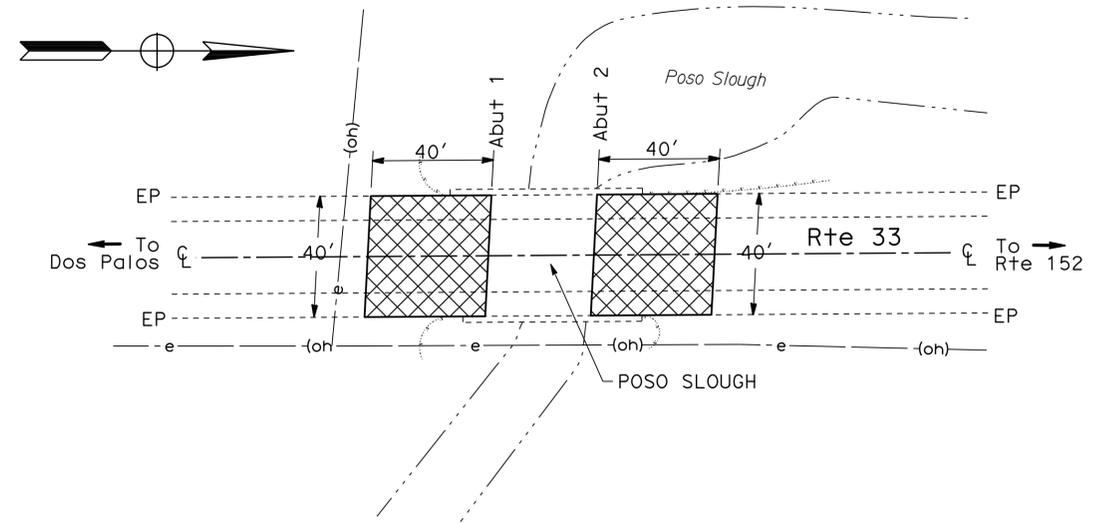


LOCATION 1
 SJ-5-PM 2.46
 BLEWETT ROAD OC



LOCATION 6
 Mer-33-PM 4.37
 POSO SLOUGH

CONFORM AT APPROACH/DEPARTURE BRIDGE DECK



LOCATION 6
 Mer-33-PM 4.37
 POSO SLOUGH

CONFORM LAYOUT

CONSTRUCTION DETAILS
 NO SCALE
C-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mer, SJ Sta	5,33, 59,99	Var	3	23

Rhodel DeClaro 02/25/15
 REGISTERED CIVIL ENGINEER DATE

2-23-15
 PLANS APPROVAL DATE

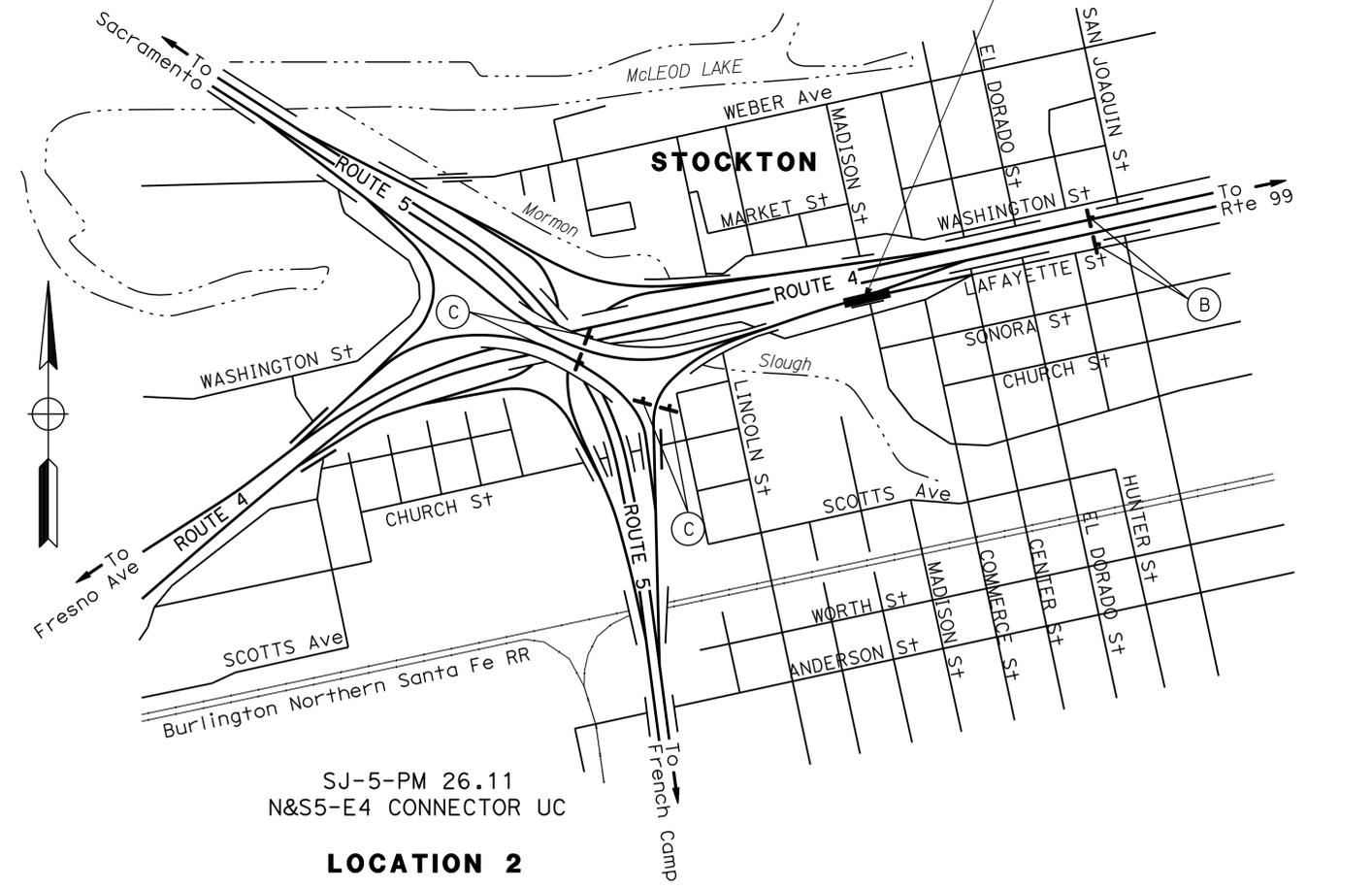
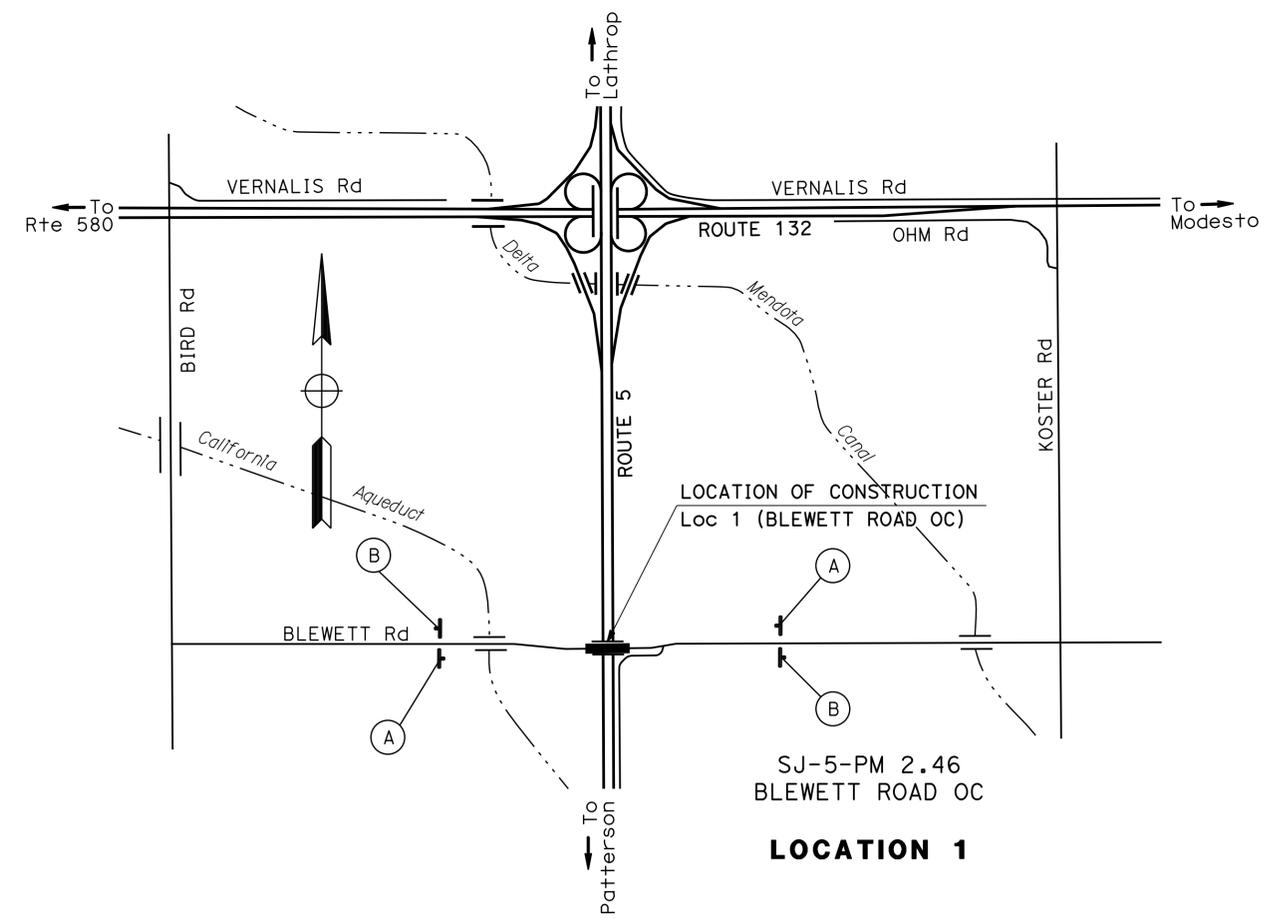
PROFESSIONAL ENGINEER
 RHODEL De CLARO
 No. 74058
 Exp. 6/30/15
 CIVIL
 STATE OF CALIFORNIA

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

CONSTRUCTION AREA SIGNS (PORTABLE)

Loc No.	BRIDGE NAME	SIGN CODE		PANEL SIZE	No. OF POSTS AND SIZE	No. OF SIGNS	SIGN MESSAGE	SIGN No.
		FEDERAL	CALIFORNIA					
1	BLEWETT ROAD OC	W20-1		36" x 36"	1 - 4" x 6"	2	ROAD WORK AHEAD	A
		G20-2		36" x 18"	1 - 4" x 4"	2	END ROAD WORK	B
2	N&S5-E4 CONNECTOR UC	W20-1		48" x 48"	1 - 6" x 6"	4	ROAD WORK AHEAD	C
		G20-2		36" x 18"	1 - 4" x 4"	2	END ROAD WORK	B
4	CALAVERAS RIVER	W20-1		48" x 48"	1 - 6" x 6"	3	ROAD WORK AHEAD	C
		G20-2		36" x 18"	1 - 4" x 4"	2	END ROAD WORK	B
5	SIERRA DRIVE OC	W20-1		36" x 36"	1 - 4" x 6"	9	ROAD WORK AHEAD	A
		G20-2		36" x 18"	1 - 4" x 4"	2	END ROAD WORK	B
6	POSO SLOUGH	W20-1		36" x 36"	1 - 4" x 6"	2	ROAD WORK AHEAD	A
		G20-2		36" x 18"	1 - 4" x 4"	2	END ROAD WORK	B
7	EDENDALE CREEK	W20-1		36" x 36"	1 - 4" x 6"	1	ROAD WORK AHEAD	A
		G20-2		36" x 18"	1 - 4" x 4"	1	END ROAD WORK	B
9	CANAL CREEK	W20-1		36" x 36"	1 - 4" x 6"	1	ROAD WORK AHEAD	A
		G20-2		36" x 18"	1 - 4" x 4"	1	END ROAD WORK	B

NOTE: EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 MAINTENANCE
 Rhodel DeClaro
 Jose A. Alicea II
 Alvin Mangindin
 02/25/15
 7/2/2010

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CONSTRUCTION AREA SIGNS
 NO SCALE
CS-1

LAST REVISION DATE PLOTTED => 02-MAR-2015
 02-25-15 TIME PLOTTED => 14:36

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
MAINTENANCE

FUNCTIONAL SUPERVISOR	ALVIN MANGINDIN
CALCULATED-DESIGNED BY	CHECKED BY
RHODEL DE CLARO	JOSE A. ALICEA II
REVISED BY	DATE REVISED
RDC	02/25/15

USERNAME => s120300
 DGN FILE => a0y8501a002.dgn

BORDER LAST REVISED 7/2/2010

RELATIVE BORDER SCALE IS IN INCHES

0 1 2 3

UNIT 2593

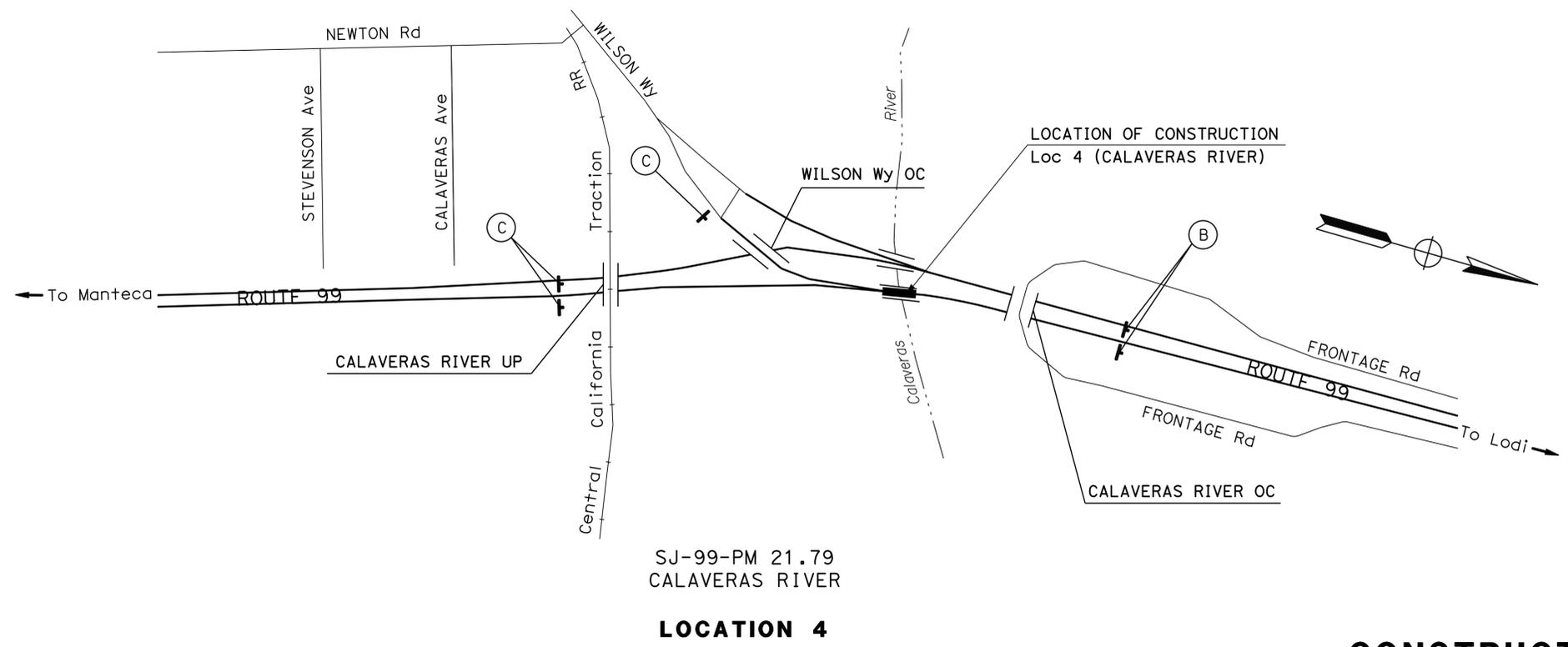
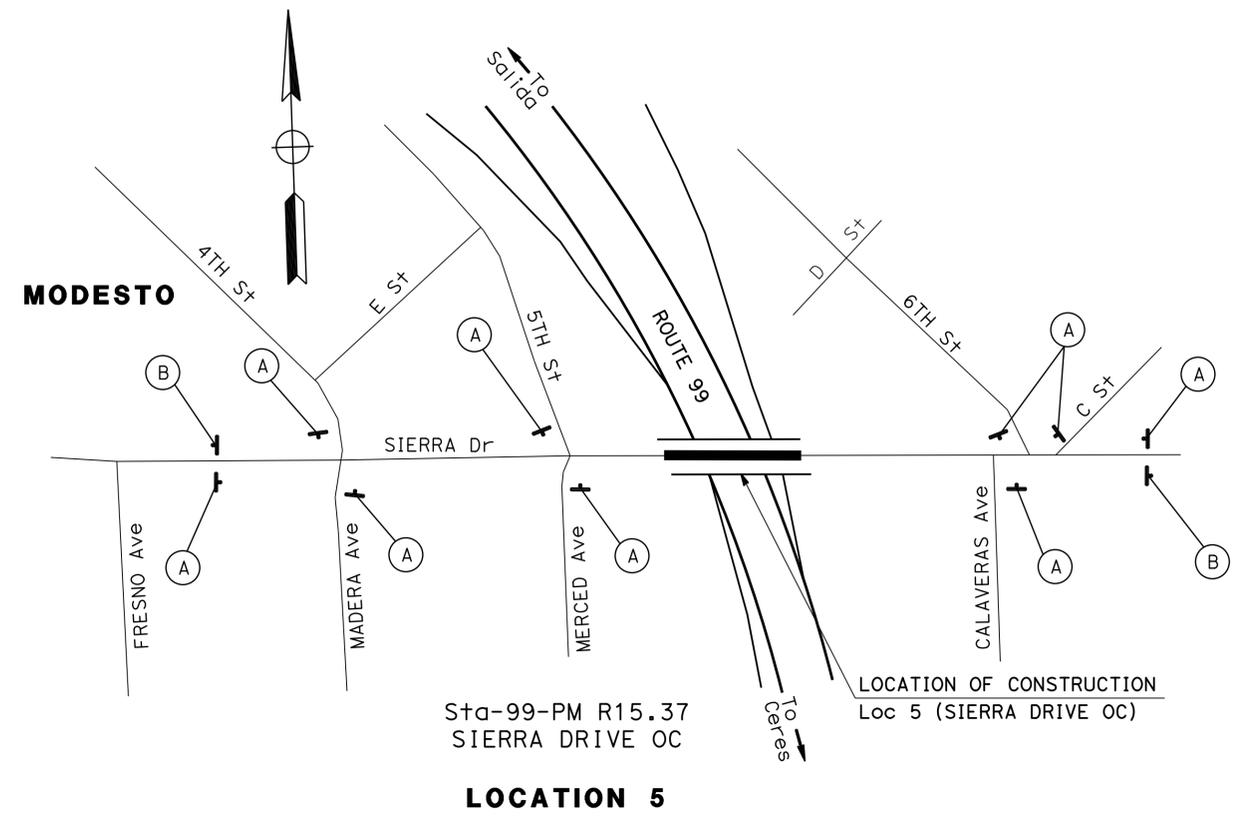
PROJECT NUMBER & PHASE 10140000941

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mer,SJ Sta	5,33, 59,99	Var	4	23

Rhodel DeClaro 02/25/15
 REGISTERED CIVIL ENGINEER DATE
 2-23-15
 PLANS APPROVAL DATE

RHODEL De CLARO
 No. 74058
 Exp. 6/30/15
 CIVIL
 STATE OF CALIFORNIA

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CONSTRUCTION AREA SIGNS
 NO SCALE
CS-2

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

LAST REVISION DATE PLOTTED => 02-MAR-2015
 02-25-15 TIME PLOTTED => 14:36

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mer, SJ Sta	5, 33, 59, 99	Var	5	23

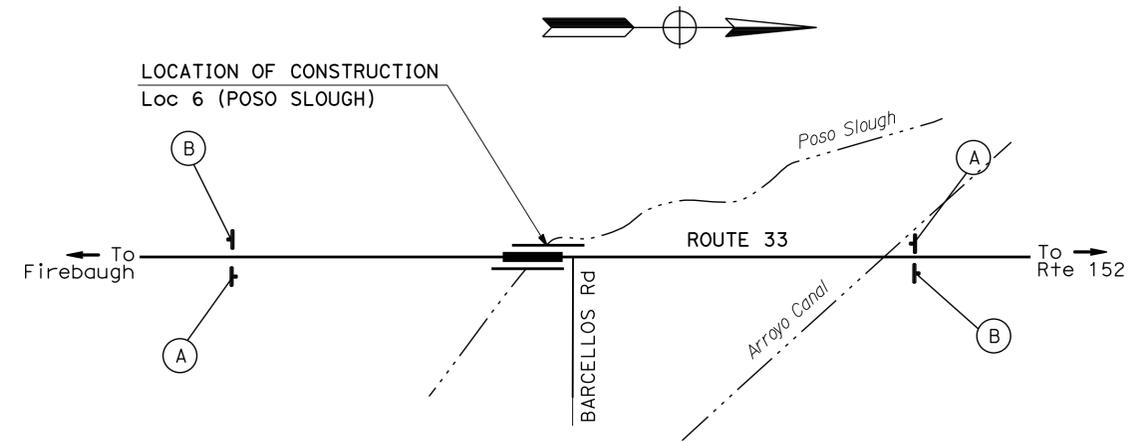
Rhodel DeClaro 02/25/15
 REGISTERED CIVIL ENGINEER DATE
 2-23-15
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 RHODEL De CLARO
 No. 74058
 Exp. 6/30/15
 CIVIL
 STATE OF CALIFORNIA

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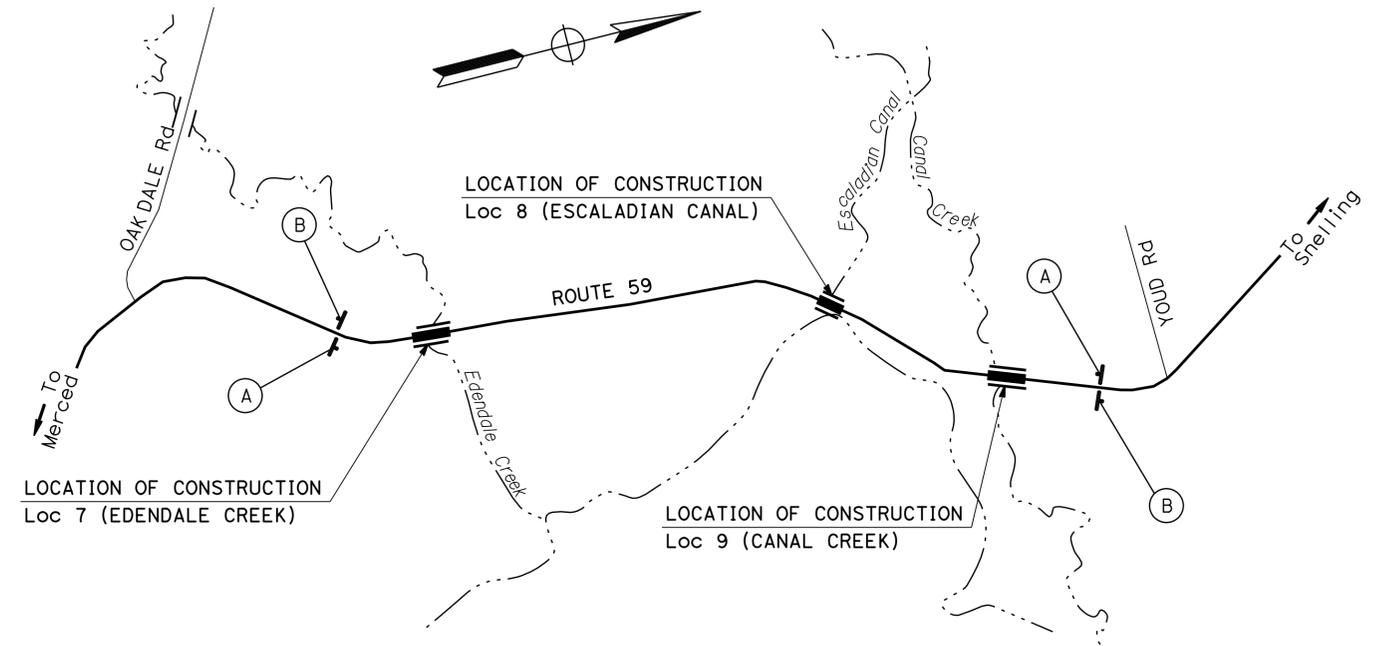
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
MAINTENANCE

FUNCTIONAL SUPERVISOR: ALVIN MANGINDIN
 RDC: 02/25/15
 REVISIONS: (None)
 RHO DEL DE CLARO: JOSE A. ALICEA II
 CALCULATED/DESIGNED BY: (None)
 CHECKED BY: (None)



Mer-33-PM 4.37
POSO SLOUGH

LOCATION 6



Mer-59-PM 24.09/26.05
EDENDALE CREEK, ESCALADIAN CANAL, AND CANAL CREEK

LOCATION 7- 9

CONSTRUCTION AREA SIGNS
NO SCALE
CS-3

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mer,SJ Sta	5,33, 59,99	Var	6	23

Rhodel DeClaro 02/25/15
REGISTERED CIVIL ENGINEER DATE

2-23-15
PLANS APPROVAL DATE

RHODEL De CLARO
No. 74058
Exp. 6/30/15
CIVIL

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PAVEMENT DELINEATION ITEMS

Loc No.	STRUCTURE NAME	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)	REMOVE THERMOPLASTIC TRAFFIC STRIPE	4" THERMOPLASTIC TRAFFIC STRIPE						4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 36-12)		4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 17-7)	8" THERMOPLASTIC TRAFFIC STRIPE	REMOVE PAVEMENT MARKER	PAVEMENT MARKER (RETROREFLECTIVE)										
				YELLOW			WHITE			YELLOW	WHITE	WHITE	WHITE		TYPE D			TYPE G			TYPE H				
				DETAIL 19	DETAIL 21	DETAIL 22	DETAIL 25	DETAIL 27B	PARKING LINES						DETAIL 6	DETAIL 12	DETAIL 9	DETAIL 36	DETAIL 6	DETAIL 19	DETAIL 22	DETAIL 9	DETAIL 12	DETAIL 36	DETAIL 19
		LF	LF	LF						LF		LF	LF	EA	EA										
1	BLEWETT ROAD OC	440	440			440		440					38			38									
2	N&S5-E4 CONNECTOR UC	148	900				148	148		296		148	28			4	7	13						4	
4	CALAVERAS RIVER		184					110		220			5				5								
5	SIERRA DRIVE OC	540	1173		540				1173																
6	POSO SLOUGH	153	230	230				230					8		3								5		
7	EDENDALE CREEK	56	84	84				84					3		1								2		
8	ESCALADIAN CANAL	14	84					84		42			1	1											
9	CANAL CREEK	21	128					128		64			2	2											
SUBTOTAL		1373	3223	314	540	440	148	1224	1173	106	516	148	296	85	3	4	38	4	12	13	7	4			
TOTAL		1373	3223	3839						622		148	296	85	85										

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
MAINTENANCE

FUNCTIONAL SUPERVISOR: ALVIN MANGINDIN
CALCULATED/DESIGNED BY: RHODEL DE CLARO
CHECKED BY: JOSE A. ALICEA II
RDC
REVISOR: RDC
DATE REVISOR: 02/25/15

PAVEMENT DELINEATION QUANTITIES PDQ-1

LAST REVISION DATE PLOTTED => 02-MAR-2015
02-25-15 TIME PLOTTED => 14:36

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mer, SJ Sta	5, 33, 59, 99	Var	7	23

Rhodel DeClaro 02/25/15
REGISTERED CIVIL ENGINEER DATE

2-23-15
PLANS APPROVAL DATE

RHODEL De CLARO
No. 74058
Exp. 6/30/15
CIVIL

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CONFORM TAPERS (ROADWAY ITEMS)

Loc No.	LOCATION DESCRIPTION	LENGTH	WIDTH	COLD PLANE AC PAVEMENT	HMA (TYPE A)
				SQYD	TON
1	BLEWETT ROAD OC (APPROACH)	7'	32'	25	3
	BLEWETT ROAD OC (DEPARTURE)	7'	32'	25	3
6	POSO SLOUGH (APPROACH)	40'	40'	178	30
	POSO SLOUGH (DEPARTURE)	40'	40'	178	30
TOTAL				406	66

TRAFFIC MANAGEMENT SYSTEM ELEMENTS (EXISTING)

COUNTY	ROUTE	Loc No.	PM	Dir	LOCATION DESCRIPTION	TYPE
SJ	5	2	25.974	NB	CHURCH STREET UC	MICROWAVE VEHICLE DETECTION SYSTEM
			25.974	NB	OFF-RAMP TO FRESNO AVENUE	MICROWAVE VEHICLE DETECTION SYSTEM
			25.980	NB	CHURCH STREET UC	CLOSED CIRCUIT TELEVISION CAMERA
			25.980	NB	OFF-RAMP TO WB ROUTE 4	TRAFFIC MONITORING STATION
			25.980	NB	OFF-RAMP TO EB ROUTE 4	TRAFFIC MONITORING STATION
			26.218	NB	ON-RAMP FROM WB ROUTE 4	TRAFFIC MONITORING STATION
			26.470	SB	NORTH OF ROUTE 4	CLOSED CIRCUIT TELEVISION CAMERA
			26.470	SB	OFF-RAMP TO EB ROUTE 4	TRAFFIC MONITORING STATION
			26.471	NB	STOCKTON CHANNEL VIADUCT	MICROWAVE VEHICLE DETECTION SYSTEM
			26.481	SB	OFF-RAMP TO ROUTE 4	MICROWAVE VEHICLE DETECTION SYSTEM
			26.486	SB	OFF-RAMP TO ROUTE 4/FRESNO AVENUE	MICROWAVE VEHICLE DETECTION SYSTEM
			14.289	SB	NORTH OF ON-RAMP FROM ARCH ROAD	MICROWAVE VEHICLE DETECTION SYSTEM
	14.289	SB	ON-RAMP FROM ARCH ROAD	MICROWAVE VEHICLE DETECTION SYSTEM		
	14.466	NB	OFF-RAMP TO ARCH ROAD	TRAFFIC MONITORING STATION		
	14.560		ARCH ROAD	SIGNAL		
	14.710	SB	OFF-RAMP TO ARCH ROAD	TRAFFIC MONITORING STATION		
	14.809	NB	ON-RAMP FROM ARCH ROAD	MICROWAVE VEHICLE DETECTION SYSTEM		
	21.337	SB	MAINLINE	TRAFFIC MONITORING STATION		
	21.353	NB	SOUTH OF WILSON WAY OC	TRAFFIC MONITORING STATION		
	21.353	SB	SOUTH OF WILSON WAY OC	TRAFFIC MONITORING STATION		
	21.611	NB	SOUTH OF WILSON WAY OC	TRAFFIC MONITORING STATION		
	21.611	SB	SOUTH OF WILSON WAY OC	TRAFFIC MONITORING STATION		
	21.846		WILSON WAY	ROADSIDE WEATHER INFORMATION SYSTEM		
	21.846	NB	NORTH OF OFF-RAMP TO WILSON WAY	TRAFFIC MONITORING STATION		
	21.856	SB	SOUTH OF CALAVERAS RIVER OC	TRAFFIC MONITORING STATION		
	22.000	NB	NORTH OF WILSON WAY	CHANGEABLE MESSAGE SIGN		
	22.086	NB	NORTH OF OFF-RAMP TO WILSON WAY	TRAFFIC MONITORING STATION		
	22.099	SB	SOUTH OF HAMMER LANE OC	TRAFFIC MONITORING STATION		
22.361	NB	SOUTH OF HAMMER LANE (STA #39B)	TRAFFIC MONITORING STATION			

NOTE: TRAFFIC MANAGEMENT SYSTEM ELEMENTS LOCATIONS ARE APPROXIMATE.

TEMPORARY DRAINAGE INLET PROTECTION

Loc No.	LOCATION DESCRIPTION	EA
2	N&S5-E4 CONNECTOR UC	2
4	CALAVERAS RIVER	1
9	CANAL CREEK	1
TOTAL		4

**SUMMARY OF QUANTITIES
Q-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
MAINTENANCE
FUNCTIONAL SUPERVISOR: ALVIN MANGINDIN
CALCULATED/DESIGNED BY: RHODEL DE CLARO
CHECKED BY: JOSE A. ALICEA II
REVISED BY: RDC
DATE REVISED: 02/25/15

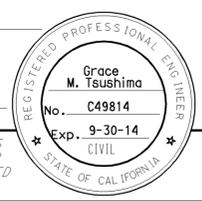


Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mer, SJ, Sta	5, 33, 59, 99	Var	8	23

Grace M. Tsushima
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

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TO ACCOMPANY PLANS DATED 2-23-15

UNIT OF MEASUREMENT SYMBOLS:

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

TABLE A

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

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

TABLE B

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

* For use on a sign panel only

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**ABBREVIATIONS
(SHEET 2 OF 2)**

NO SCALE

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

REVISED STANDARD PLAN RSP A10B

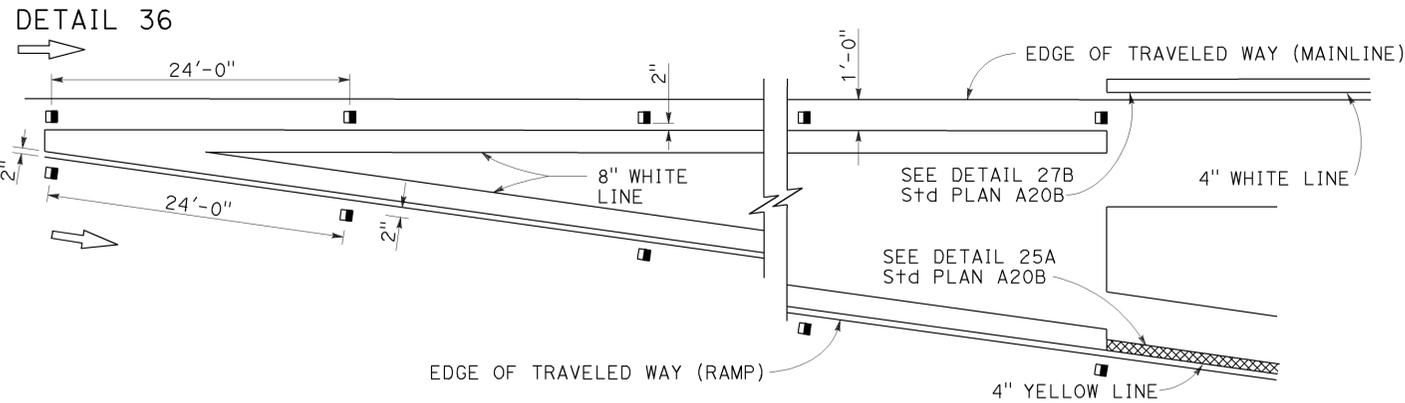
	M
Maint	MAINTENANCE
Max	MAXIMUM
MB	METAL BEAM
MBB	METAL BEAM BARRIER
MBGR	METAL BEAM GUARD RAILING
Med	MEDIAN
MGS	MIDWEST GUARDRAIL SYSTEM
MH	MANHOLE
Min	MINIMUM
Misc	MISCELLANEOUS
Misc I & S	MISCELLANEOUS IRON AND STEEL
Mkr	MARKER
Mod	MODIFIED, MODIFY
Mon	MONUMENT
MP	METAL PLATE
MPGR	METAL PLATE GUARD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

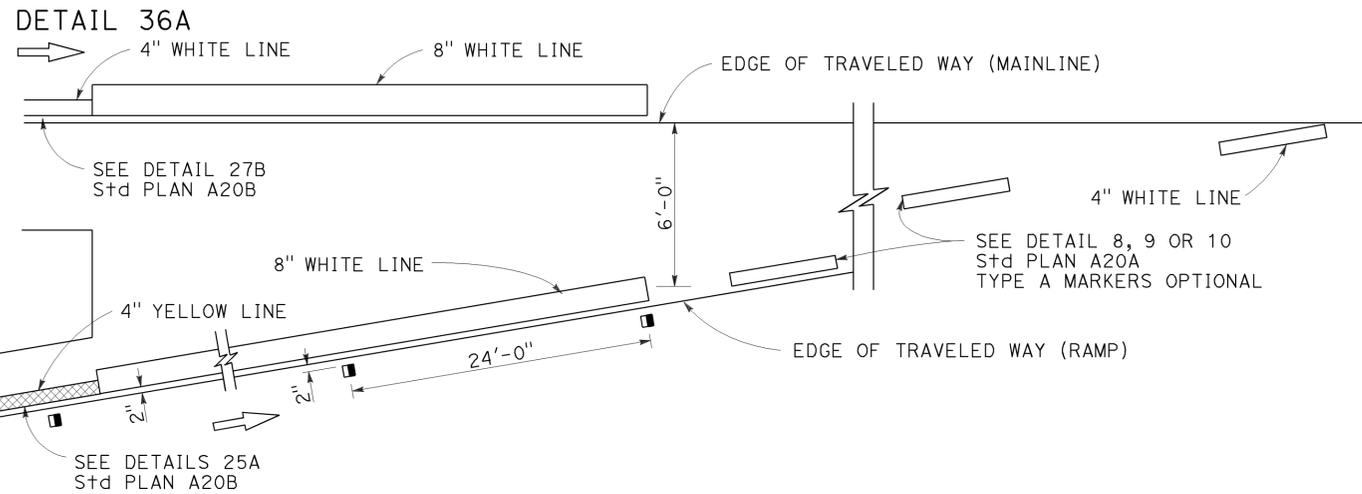
	S
S	SOUTH, SUPPLEMENT
SAE	STRUCTURE APPROACH EMBANKMENT
Salv	SALVAGE
SAPP	STRUCTURAL ALUMINUM PLATE PIPE
SB	SOUTHBOUND
SC	SAND CUSHION
SCSP	SLOTTED CORRUGATED STEEL PIPE
SD	STORM DRAIN
Sec	SECOND, SECTION
Sep	SEPARATION
SG	SUBGRADE
Shld	SHOULDER
Sht	SHEET
Sim	SIMILAR
⊥	STATION LINE
SM	SELECTED MATERIAL
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

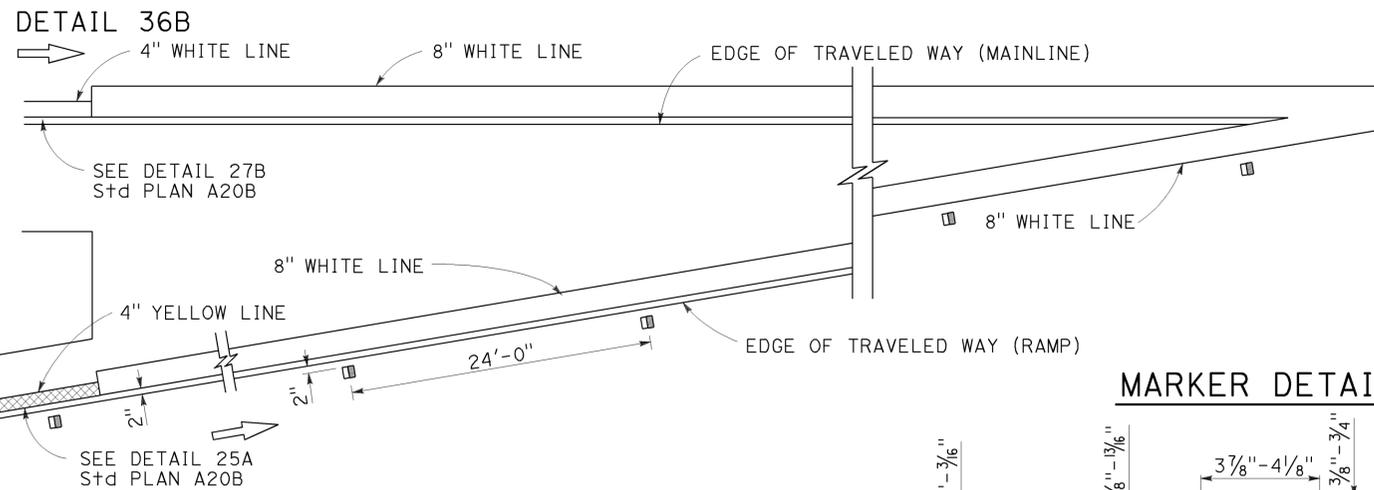
EXIT RAMP NEUTRAL AREA (GORE) TREATMENT



ENTRANCE RAMP NEUTRAL AREA (MERGE) TREATMENT



ENTRANCE RAMP NEUTRAL AREA (ACCELERATION LANE) TREATMENT

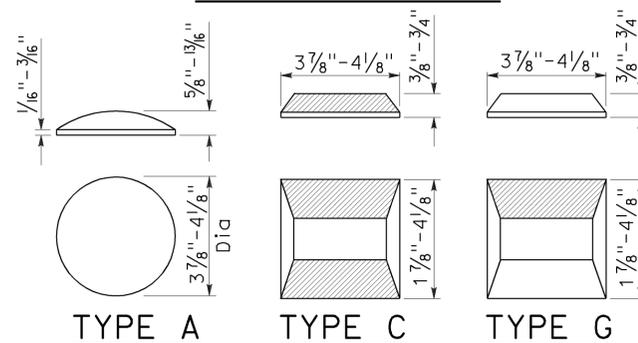


MARKER DETAILS

LEGEND:

MARKERS

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



RETROREFLECTIVE FACE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mer, S.J., Sta	5, 33, 59, 99	Var	9	23

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

REGISTERED PROFESSIONAL ENGINEER

Roberta L. McLaughlin

No. C40375

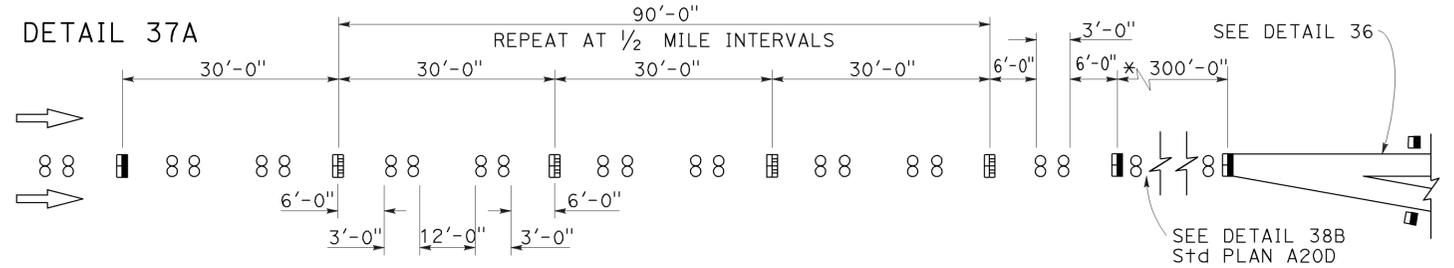
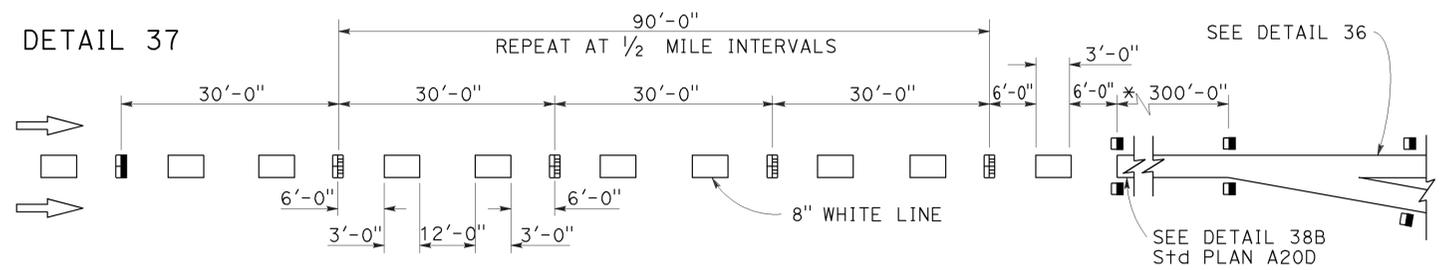
Exp. 3-31-15

CIVIL

STATE OF CALIFORNIA

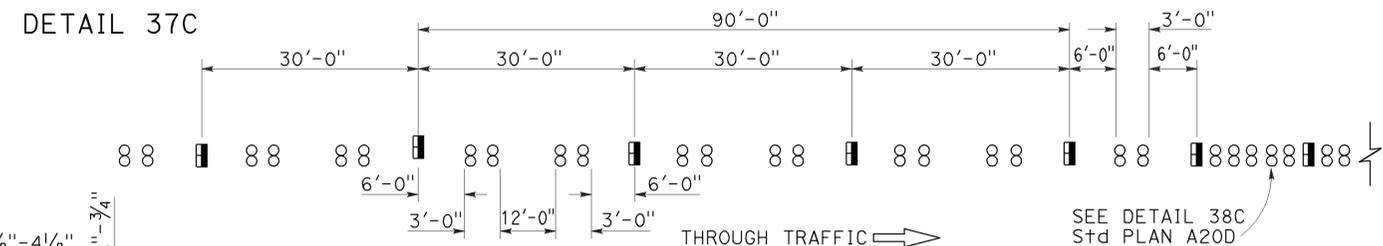
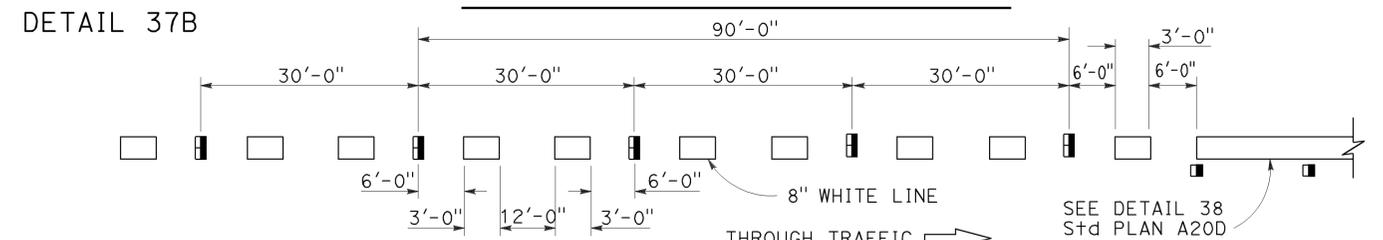
TO ACCOMPANY PLANS DATED 2-23-15

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

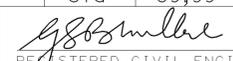
NO SCALE

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
10	Mer, SJ, Sta	5, 33, 59, 99	Var	10	23


 REGISTERED CIVIL ENGINEER
 July 19, 2013
 PLANS APPROVAL DATE



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

TO ACCOMPANY PLANS DATED 2-23-15

TABLE 1

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

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

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

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

TABLE 2

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

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

TABLE 3

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

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

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM TABLES
 FOR LANE AND RAMP CLOSURES**
 NO SCALE

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

REVISED STANDARD PLAN RSP T9

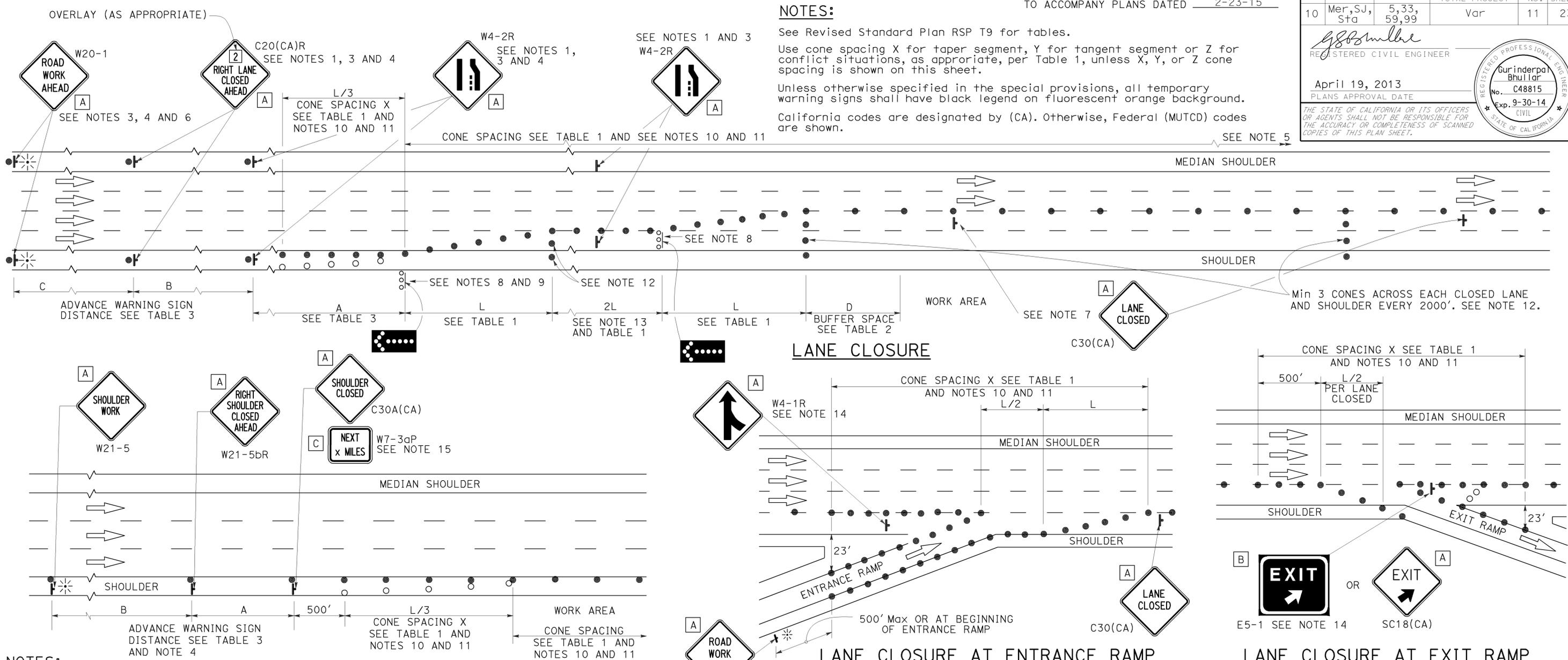
2010 REVISED STANDARD PLAN RSP T9

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mer, SJ, Sta	5, 33, 59, 99	Var	11	23

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:

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

NOTES:

1. Median lane closures shall conform to the details as shown except that C20(CA)L and W4-2L signs shall be used.
2. At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
3. Duplicate sign installations are not required:
 - a) On opposite shoulder if at least one-half of the available lanes remain open to traffic.
 - b) In the median if the width of the median shoulder is less than 8' and the outside lanes are to be closed.
4. 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.
5. 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

6. If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a C20(CA)L and W4-2L signs shall be used.
7. Place a C30(CA) sign every 2000' throughout length of lane closure.
8. One flashing arrow sign for each lane closed. The flashing arrow signs shall be Type I.
9. 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.
10. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
11. Portable delineators, placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.

LANE CLOSURE AT ENTRANCE RAMP

12. 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.
13. 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.
14. Unless otherwise specified in the special provisions, the E5-1 or SC18(CA) and W4-1 signs shall be used as shown.
15. A W7-3aP "NEXT _____ MILES" plaque must be used if the shoulder closure extends beyond the distance that can be perceived by road users.

LEGEND

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

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 72" x 60"
- C 36" x 30"

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON FREEWAYS AND EXPRESSWAYS

NO SCALE
 RSP T10 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T10 DATED MAY 20, 2011 - PAGE 237 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T10

2010 REVISED STANDARD PLAN RSP T10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mer, SJ, Sta	5, 33, 59, 99	Var	12	23

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

October 17, 2014
 PLANS APPROVAL DATE

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NOTES:

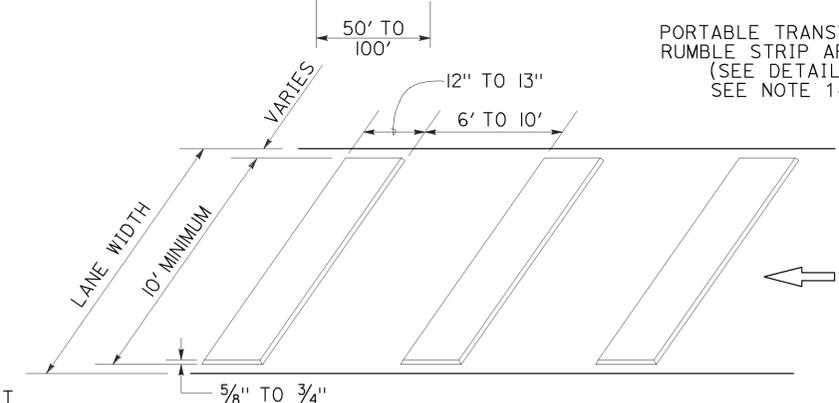
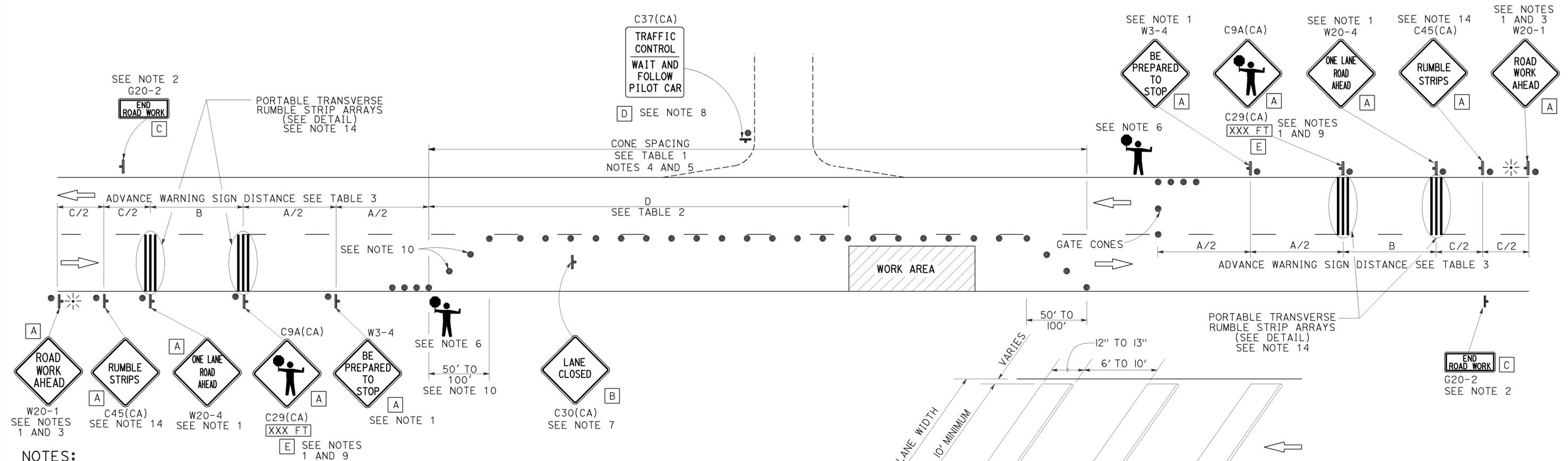
See Revised Standard Plan RSP T9 for tables.

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

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

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

TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL



LEGEND

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

SIGN PANEL SIZE (Min)

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

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON TWO LANE CONVENTIONAL HIGHWAYS

NO SCALE

RSP T13 DATED OCTOBER 17, 2014 SUPERSEDES RSP T13 DATED JULY 18, 2014 AND RSP T13 DATED APRIL 19, 2013 AND STANDARD PLAN T13 DATED MAY 20, 2011 - PAGE 241 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T13

- NOTES:**
- Each advance warning sign in each direction of travel shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
 - A G20-2 "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane control unless the end of work area is obvious, or ends within a larger project's limits.
 - If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a W20-4 sign for the first advance warning sign.
 - All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
 - Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
 - Additional advance flaggers may be required. Flagger should stand in a conspicuous place, be visible to approaching traffic as well as approaching vehicles after the first vehicle has stopped. During the hours of darkness, the flagging-station and flagger shall be illuminated and clearly visible to approaching traffic. The illumination footprint of the lighting on the ground shall be at least 20' in diameter. Place a minimum of four cones at 50' intervals in advance of flagger station as shown.
 - Place C30(CA) "LANE CLOSED" sign at 500' to 1000' intervals throughout extended work areas. They are optional if the work area is visible from the flagger station.
 - When a pilot car is used, place a C37(CA) "TRAFFIC CONTROL-WAIT AND FOLLOW PILOT CAR" sign with black legend on white background at all intersections, driveways and alleys without a flagger within traffic control area. Signs shall be clean and visible at all times. Where traffic can not be effectively self-regulated, at least one flagger shall be used at each intersection within traffic control area.
 - An optional C29(CA) sign may be placed below the C9A(CA) sign.
 - Either traffic cones or barricades shall be placed on the taper. Barricades shall be Type I, II, or III.
 - The color of the portable transverse rumble strips shall be black or orange. Use 2 arrays, each array shall consist of 3 rumble strips.
 - Portable transverse rumble strips shall not be placed on sharp horizontal or vertical curves nor shall they be placed through pedestrian crossings.
 - If the portable transverse rumble strips become out of alignment (skewed) by more than 6 inches, measured from one end to the other, they shall be readjusted to bring the placement back to the original location.
 - Portable transverse rumble strips are not required if any one of the following conditions is satisfied:
 - Work duration occupies a location for four hours or less
 - Posted speed limit is below 45 MPH
 - Work is of emergency nature
 - Work zone is in snow or icy weather conditions

2010 REVISED STANDARD PLAN RSP T13

TYPICAL RAMP CLOSURES

SIGN PANEL SIZE (Min)

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

LEGEND

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

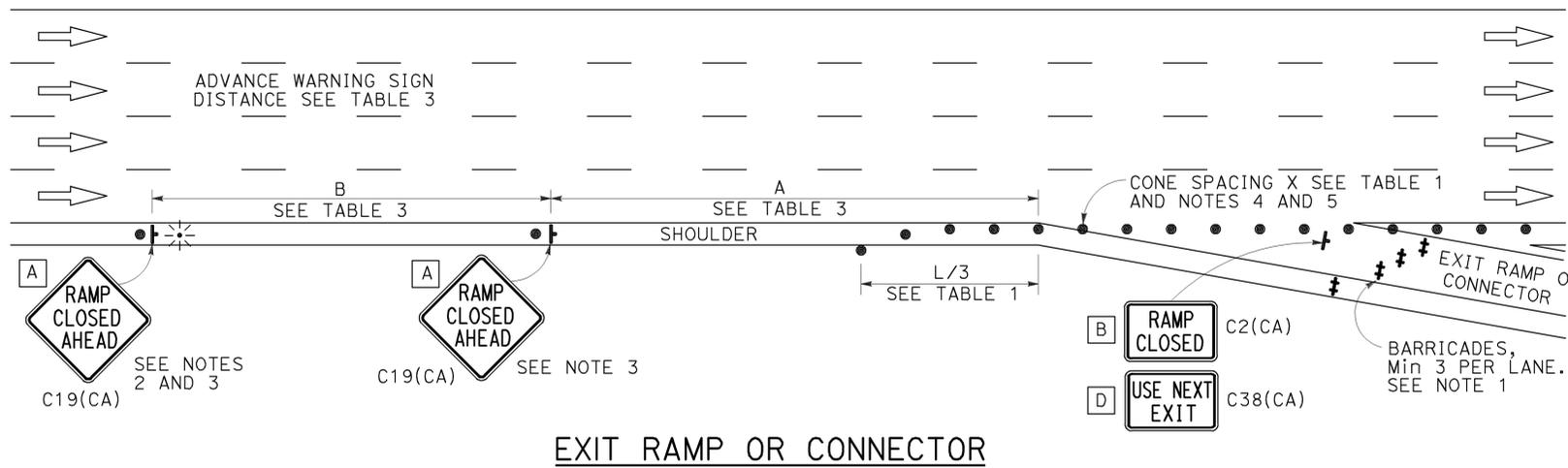
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mer, SJ, Sta	5, 33, 59, 99	Var	13	23

Gurinderpal Bhullar
 REGISTERED CIVIL ENGINEER
 April 19, 2013
 PLANS APPROVAL DATE

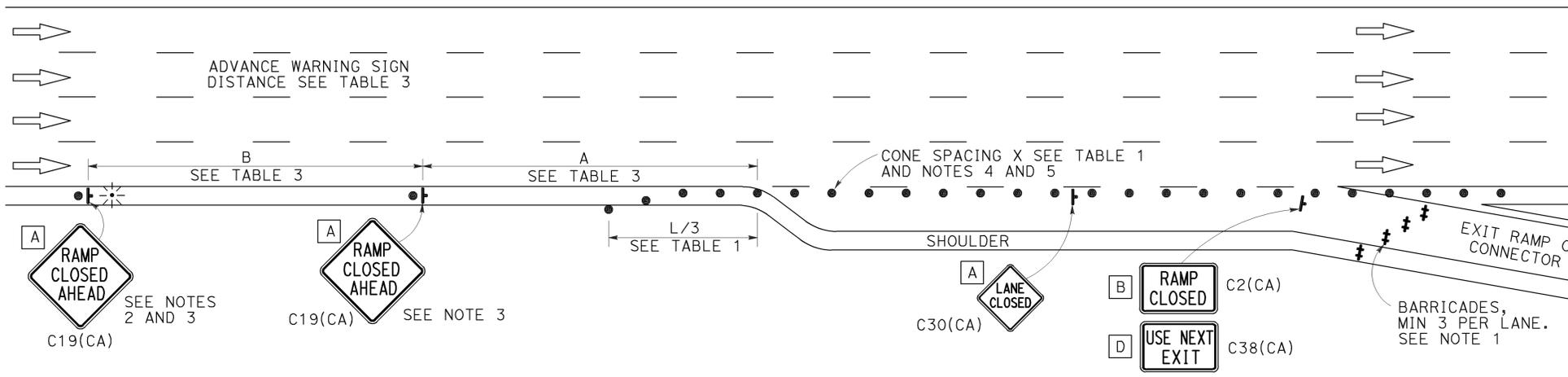
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

TO ACCOMPANY PLANS DATED 2-23-15

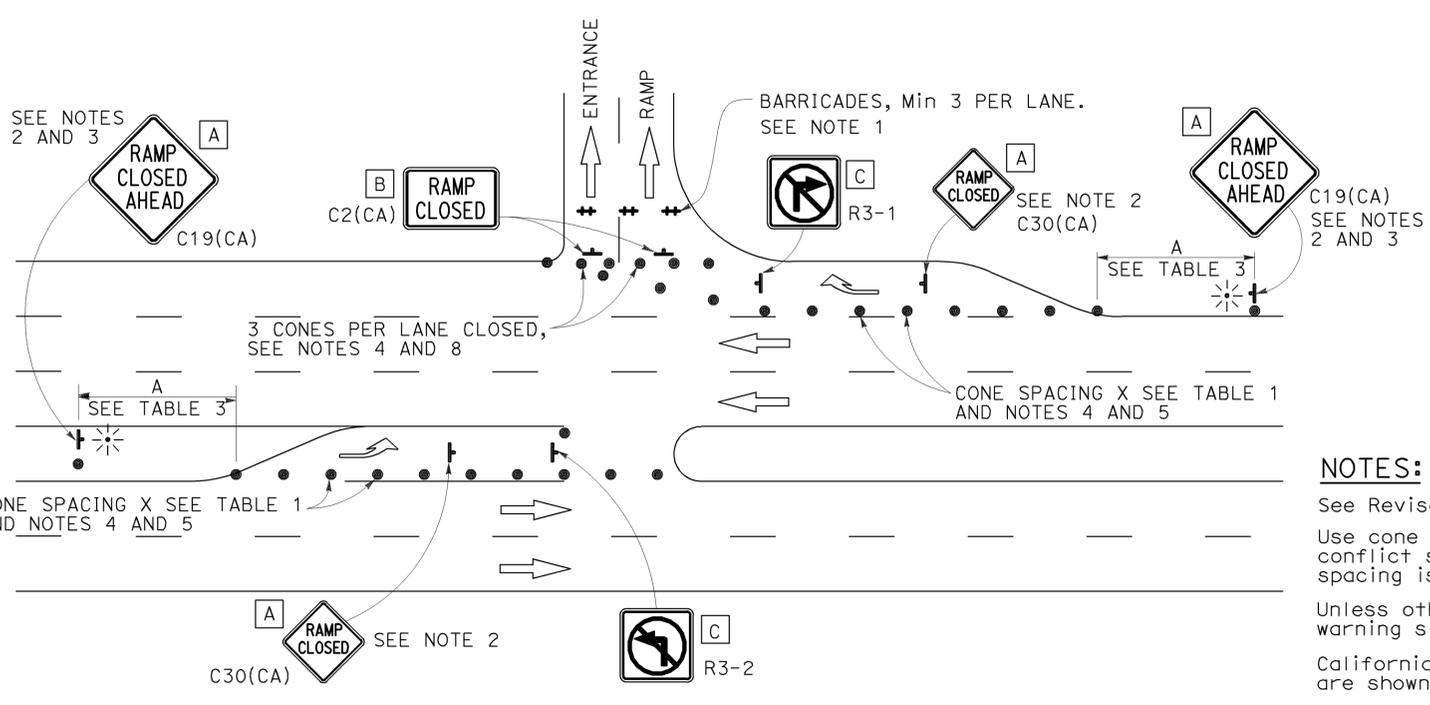
2010 REVISED STANDARD PLAN RSP T14



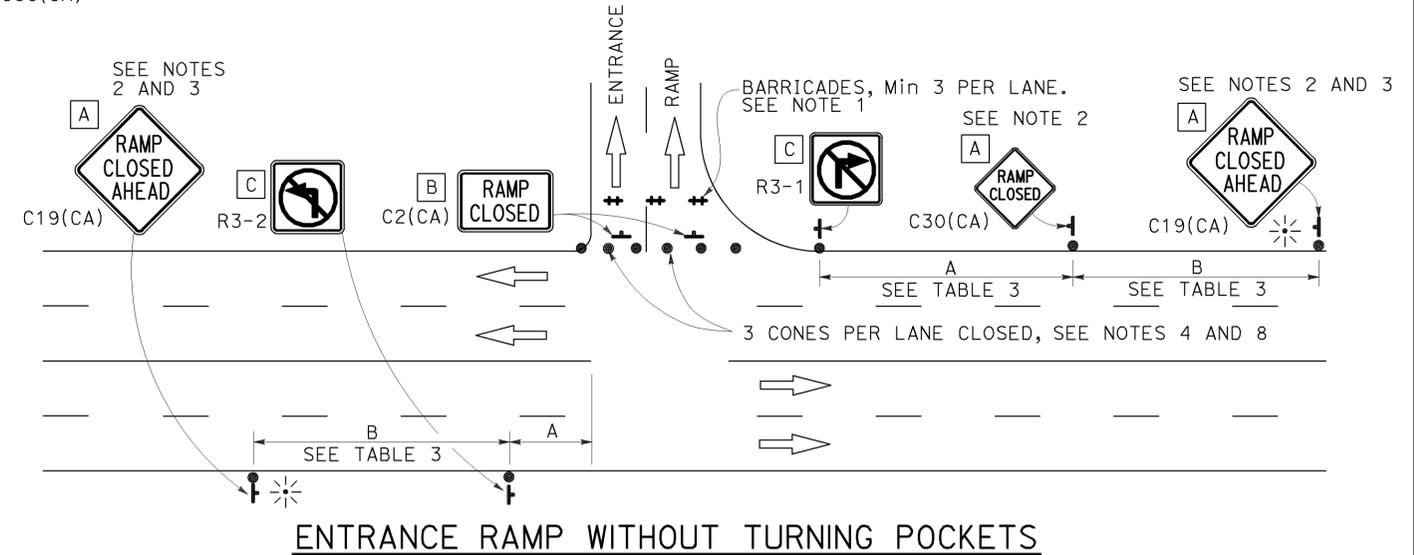
EXIT RAMP OR CONNECTOR



EXIT RAMP OR CONNECTOR WITH ADDITIONAL LANE



ENTRANCE RAMP WITH TURNING POCKETS



ENTRANCE RAMP WITHOUT TURNING POCKETS

NOTES:

1. See Revised Standard Plan RSP T9 for tables.
2. 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.
3. Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on fluorescent orange background.
4. California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

NOTES:

1. 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.
2. 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.
3. 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.
4. All cones used for ramp closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
5. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime ramp closures only.
6. At least one person shall be assigned to provide full time maintenance of traffic control devices, unless otherwise directed by the Engineer.
7. The existing "EXIT" signs shall be covered during ramp closures.
8. A minimum of 3 cones shall be placed transversely across each closed lane and shoulder.

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

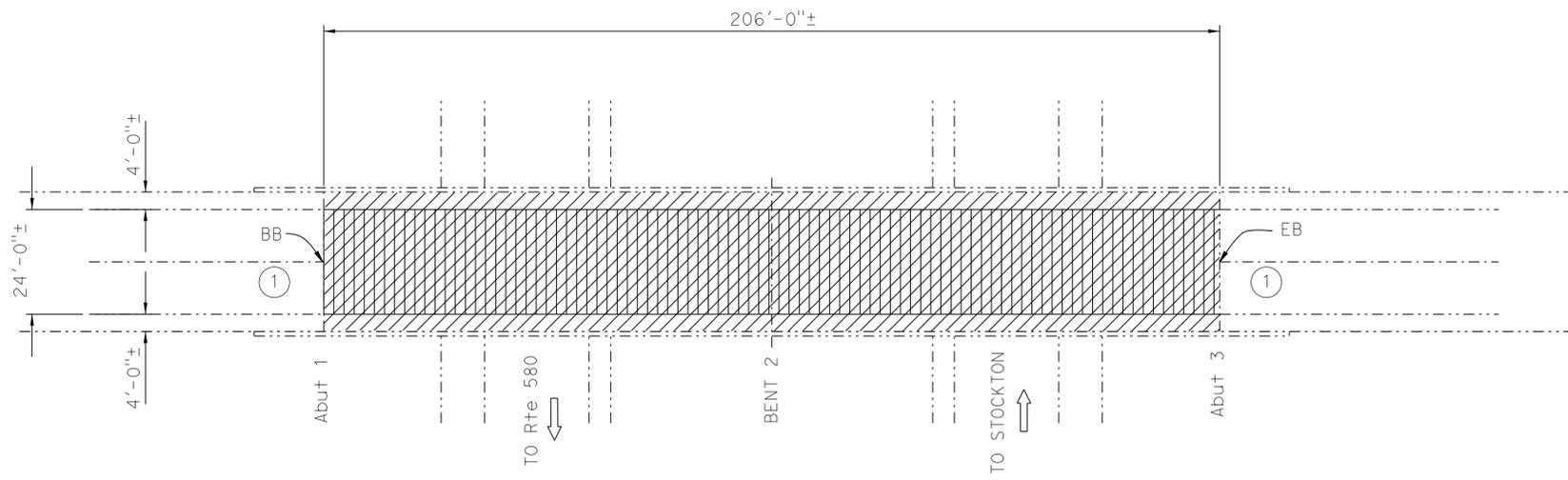
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mer, SJ, Sta	5, 33, 59, 99	Var	14	23

Arlene Frank 2-10-15
 REGISTERED CIVIL ENGINEER DATE

2-23-15
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 ARLENE FRANK
 No. C 55562
 Exp. 12-31-16
 CIVIL
 STATE OF CALIFORNIA

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



- NOTES: (APPLY TO THIS SHEET ONLY)
- Indicates limits of prepare concrete bridge deck surface and treat bridge deck with high molecular weight methacrylate.
 - Indicates limits of remove existing 1"± chip seal overlay
 - ① For approach roadway, see "ROADWAY PLANS"

QUANTITIES

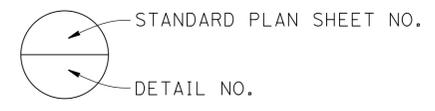
BLEWETT ROAD OVERCROSSING	BRIDGE NO. 29-0243
PREPARE CONCRETE BRIDGE DECK SURFACE	6,592 SQFT
TREAT BRIDGE DECK	6,592 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	73 GAL
REMOVE CHIP SEAL	4,944 SQFT

NOTES: (APPLY TO ALL SHEETS)

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

STANDARD PLANS DATED 2010

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

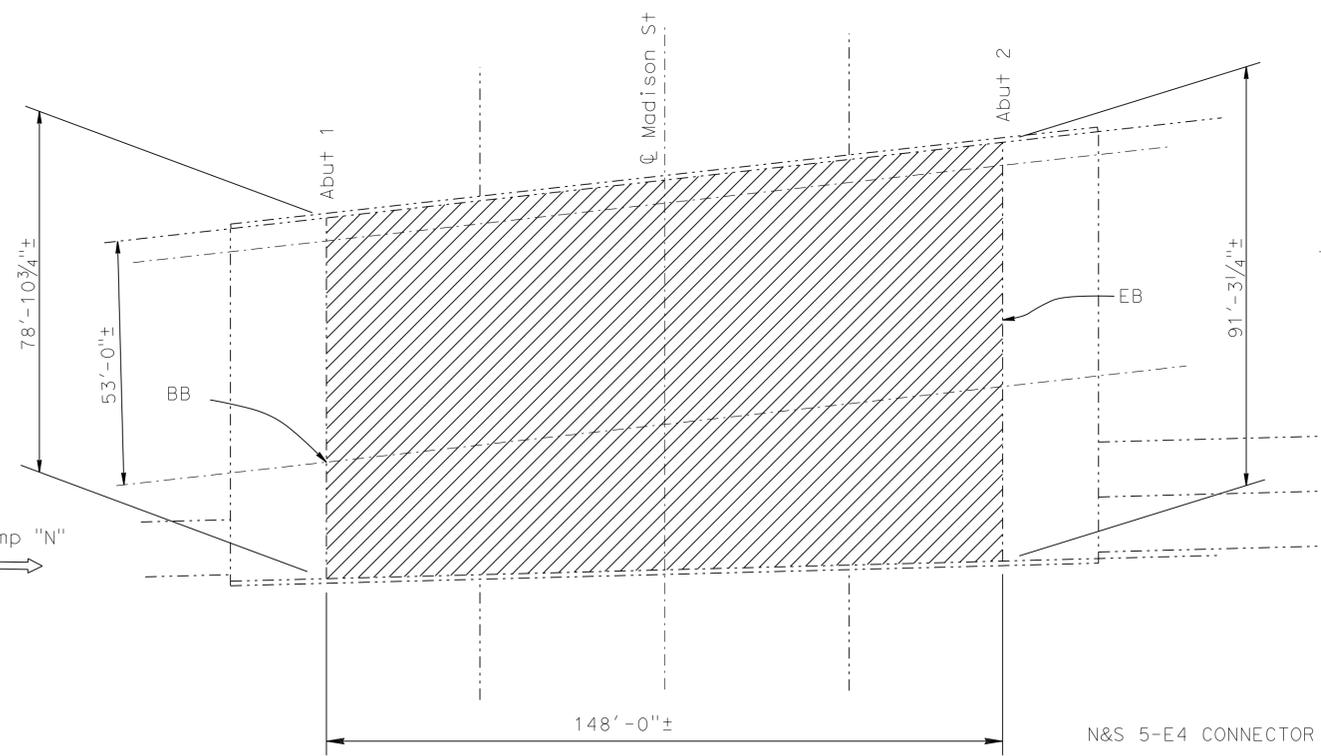


INDEX TO PLANS

SHEET NO.	TITLE
1	GENERAL PLAN NO. 1
2	GENERAL PLAN NO. 2
3	GENERAL PLAN NO. 3
4	GENERAL PLAN NO. 4
5	GENERAL PLAN NO. 5
6	GENERAL PLAN NO. 6
7	JOINT SEAL DETAILS NO. 1
8	JOINT SEAL DETAILS NO. 2
9	MEDIAN CONCRETE BARRIER DETAILS
10	STRIP JOINT SEAL ASSEMBLY MAXIMUM MOVEMENT RATING = 4"



BLEWETT ROAD OVERCROSSING
 Br. No. 29-0243, SJ, ROUTE 5, PM 2.46
 1"=20'



QUANTITIES

N&S 5-E4 CONNECTOR UC	BRIDGE NO. 29-0239H
PREPARE CONCRETE BRIDGE DECK SURFACE	12,592 SQFT
TREAT BRIDGE DECK	12,592 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	140 GAL



N&S5-E4 CONNECTOR UC
 Br. NO. 29-0239H, SJ, ROUTE 5, PM 26.11
 1"=20'

 DESIGN ENGINEER 2-10-15	DESIGN	BY A. FRANK	CHECKED A. NOJOUMI	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
	DETAILS	BY DAVID KISH	CHECKED A. NOJOUMI	LAYOUT	BY DAVID KISH
	QUANTITIES	BY A. FRANK	CHECKED A. NOJOUMI	SPECIFICATIONS	BY JARVIS MAHE

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
 POST MILE VARIES
ROUTE 5, 99, 33 & 59 BRIDGES
GENERAL PLAN NO. 1

NOTES: (APPLY TO THIS SHEET ONLY)

Indicates limits of remove existing joint seal gland, clean expansion joint and install neoprene strip seal gland. Remove portion of median barrier and install new steel cover plates. For details see "MEDIAN CONCRETE BARRIER DETAILS" sheet.

Indicates limits of reconstruct joint seal assembly. For details see "SECTION A-A" on "JOINT SEAL DETAILS NO. 2" sheet.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mer, SJ Sta	5, 33, 59, 99	Var	15	23

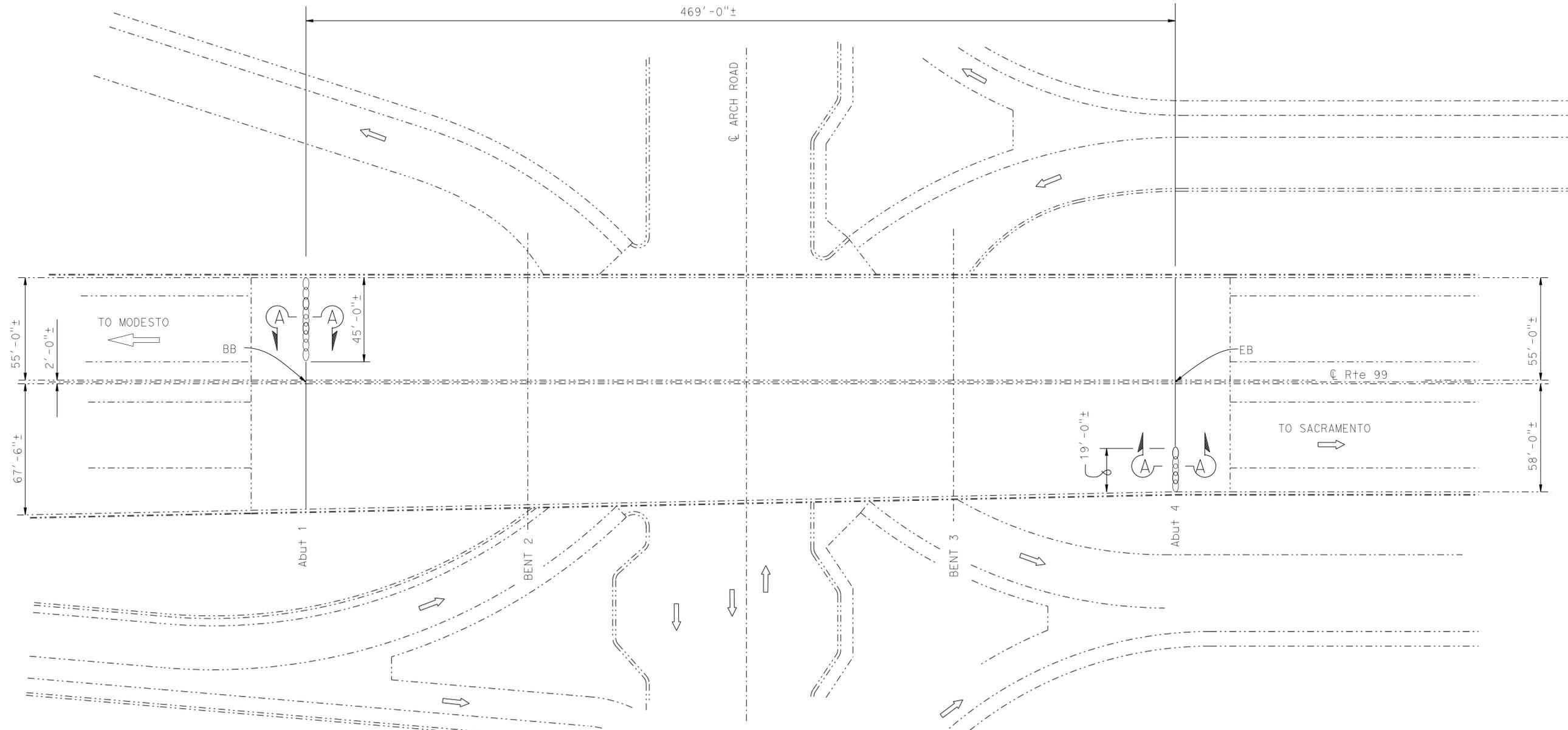
Arlene Frank 2-10-15
 REGISTERED CIVIL ENGINEER DATE

2-23-15
 PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
 ARLENE FRANK
 No. C 55562
 Exp. 12-31-16
 CIVIL
 STATE OF CALIFORNIA

ARCH ROAD UNDERCROSSING	BRIDGE NO. 29-0316
BRIDGE REMOVAL (PORTION)	LUMP SUM
STRUCTURAL CONCRETE, BRIDGE	6 CY
CLEAN EXPANSION JOINT	240 LF
JOINT SEAL ASSEMBLY (MR 3") (WABO)	64 LF
REPLACE NEOPRENE STRIP SEAL GLAND (WABO SEAL) (MR 3")	178 LF
MISCELLANEOUS METAL (BRIDGE)	960 LB



ARCH ROAD UNDERCROSSING
 Br No. 29-0316, SJ, ROUTE 99, PM 14.61
 1"=30'

 DESIGN ENGINEER 2-10-15	DESIGN	BY A. FRANK	CHECKED A. NOJOUMI	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 5, 99, 33 & 59 BRIDGES GENERAL PLAN NO. 2	
	DETAILS	BY DAVID KISH	CHECKED A. NOJOUMI	LAYOUT	BY DAVID KISH			CHECKED A. NOJOUMI		VARIOUS
	QUANTITIES	BY A. FRANK	CHECKED A. NOJOUMI	SPECIFICATIONS	BY JARVIS MAHE			PLANS AND SPECS COMPARED JARVIS MAHE		VARIES

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

UNIT: 3488 PROJECT NUMBER & PHASE: 1014000094 CONTRACT NO.: 10-0Y8501 DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
9-17-14 11-25-14	2	10

FILE => 10-0y8501_02gp.dgn

USERNAME => s120300 DATE PLOTTED => 02-MAR-2015 TIME PLOTTED => 14:27

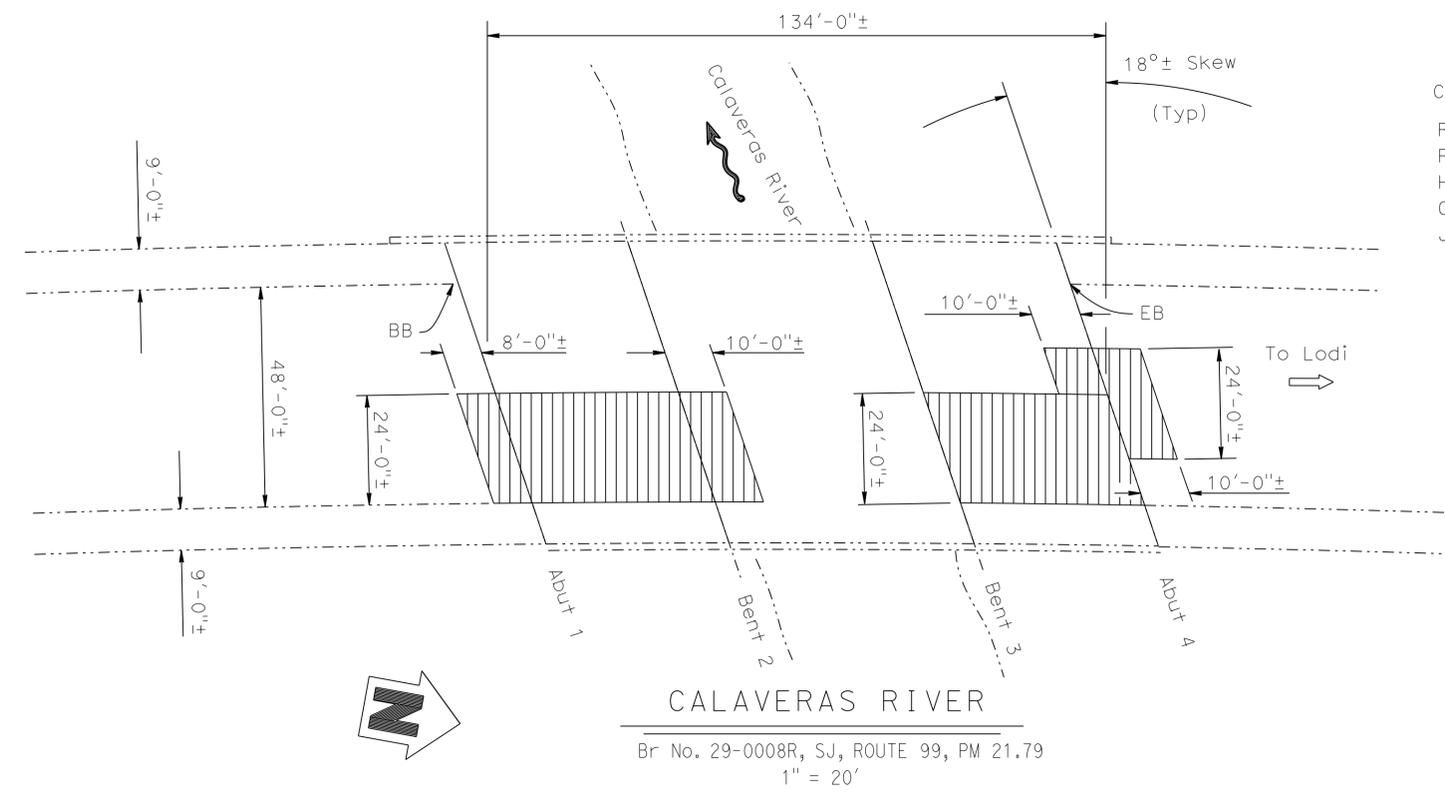
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mer, SJ, Sfa	5, 33, 59, 99	Var	16	23

Arlene Frank 2-10-15
 REGISTERED CIVIL ENGINEER DATE

2-23-15
 PLANS APPROVAL DATE

ARLENE FRANK
 No. C 55562
 Exp. 12-31-16
 CIVIL
 STATE OF CALIFORNIA

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QUANTITIES

CALAVERAS RIVER	BRIDGE NO. 29-0008R		
REMOVE ASPHALT CONCRETE SURFACING		2,712	SQFT
POLYESTER CONCRETE EXPANSION DAM		70	CF
HOT MIX ASPHALT (BRIDGE)		20	TON
CLEAN EXPANSION JOINT		280	LF
JOINT SEAL (MR 1")		280	LF

NOTES: (APPLY TO THIS SHEET ONLY)



Indicates limits of remove 1"± AC overlay and place new 1" HMA overlay. Conform new HMA overlay to existing adjacent FG.



Indicates limits of remove existing asphaltic plug and install new polyester concrete expansion dam and joint seal. See "ASPHALTIC PLUG AT ABUTMENT" and "ASPHALTIC PLUG AT BENT" details on "JOINT SEAL DETAILS NO. 1" sheet.

Matthew W. Lee 2-10-15
 DESIGN ENGINEER

DESIGN	BY A. FRANK	CHECKED A. NOJOUMI	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY DAVID KISH	CHECKED A. NOJOUMI	LAYOUT	BY DAVID KISH
QUANTITIES	BY A. FRANK	CHECKED A. NOJOUMI	SPECIFICATIONS	BY JARVIS MAHE
				PLANS AND SPECS COMPARED JARVIS MAHE

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
 POST MILE VARIES

ROUTE 5, 99, 33 & 59 BRIDGES

GENERAL PLAN NO. 3

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: 1014000094
 CONTRACT NO.: 10-0Y8501

REVISION DATES	SHEET	OF
8-11-14 11-25-14	3	10

FILE => 10-0y8501_03gp.dgn

USERNAME => s120300 DATE PLOTTED => 02-MAR-2015 TIME PLOTTED => 14:27

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mer, SJ, Sta	5, 33, 59, 99	Var	17	23

Arlene Frank 2-10-15
 REGISTERED CIVIL ENGINEER DATE

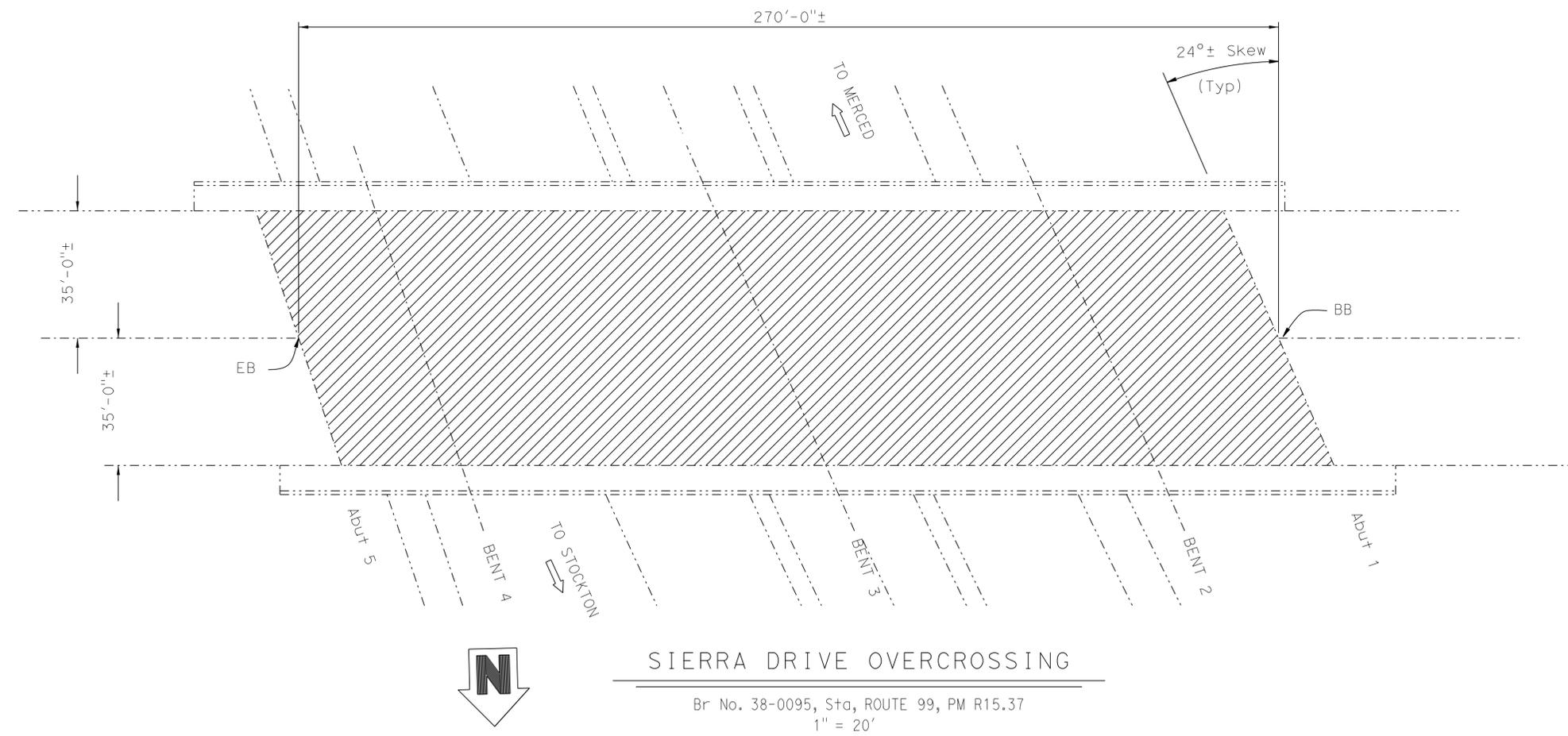
2-23-15
 PLANS APPROVAL DATE

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NOTES: (APPLY TO THIS SHEET ONLY)



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



QUANTITIES

SIERRA DRIVE OVERCROSSING	BRIDGE NO. 38-0095
PREPARE CONCRETE BRIDGE DECK SURFACE	18,900 SQFT
TREAT BRIDGE DECK	18,900 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	210 GAL

2-10-15
 DESIGN ENGINEER

DESIGN	BY A. FRANK	CHECKED A. NOJOUMI	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY DAVID KISH	CHECKED A. NOJOUMI	LAYOUT	BY DAVID KISH
QUANTITIES	BY A. FRANK	CHECKED A. NOJOUMI	SPECIFICATIONS	BY JARVIS MAHE

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

ROUTE 5, 99, 33 & 59 BRIDGES
GENERAL PLAN NO. 4

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

UNIT: 3488
 PROJECT NUMBER & PHASE: 1014000094
 CONTRACT NO.: 10-0Y8501

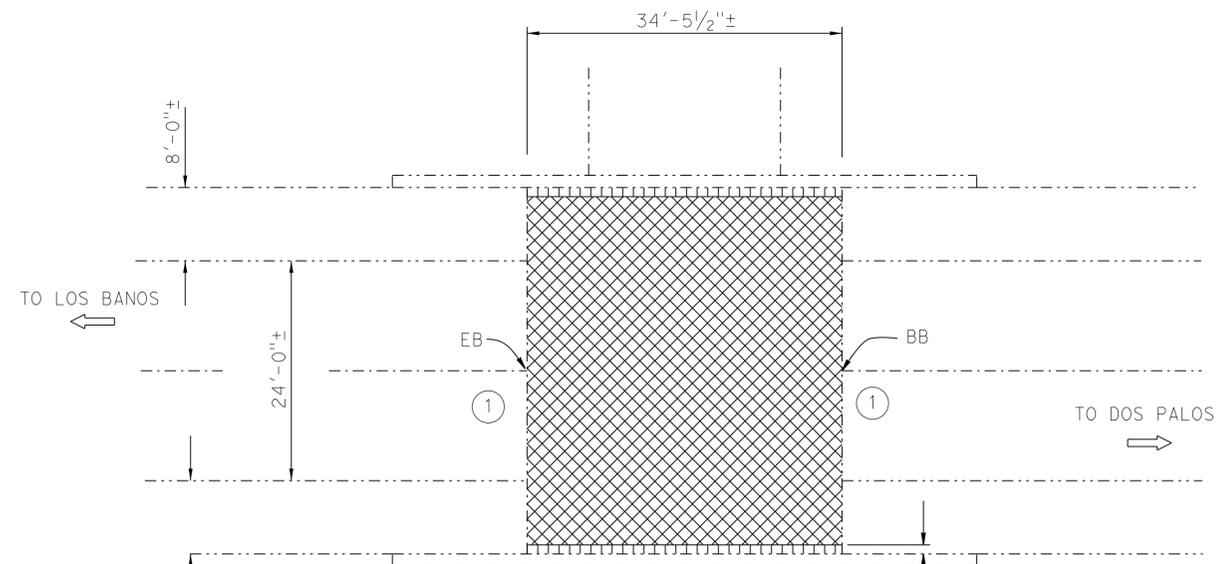
DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET	OF
	8-11-14	4	10

FILE => 10-0y8501_04gp.dgn

USERNAME => s120300 DATE PLOTTED => 02-MAR-2015 TIME PLOTTED => 14:27

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mer, SJa, Sfa	5, 33, 59, 99	Var	18	23

Arlene Frank 2-10-15
 REGISTERED CIVIL ENGINEER DATE
 2-23-15
 PLANS APPROVAL DATE
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QUANTITIES

POSLO SLOUGH

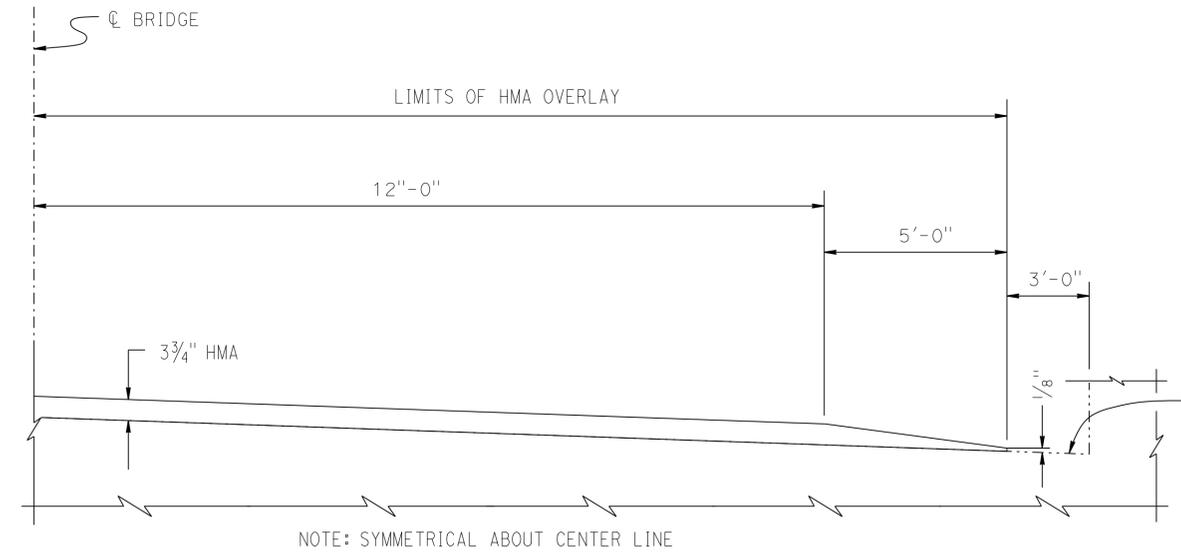
PUBLIC SAFETY PLAN	
RAPID SETTING CONCRETE (PATCH)	
REMOVE ASPHALT CONCRETE SURFACING	
REMOVE UNSOUND CONCRETE	
PREPARE CONCRETE BRIDGE DECK SURFACE	
TREAT BRIDGE DECK	
FURNISH BRIDGE DECK TREATMENT MATERIAL	
HOT MIX ASPHALT (BRIDGE)	

BRIDGE NO. 39-0054

LUMP SUM	
4 CF	
1,311 SQFT	
4 CF	
1,380 SQFT	
1,380 SQFT	
15 GAL	
39 TON	

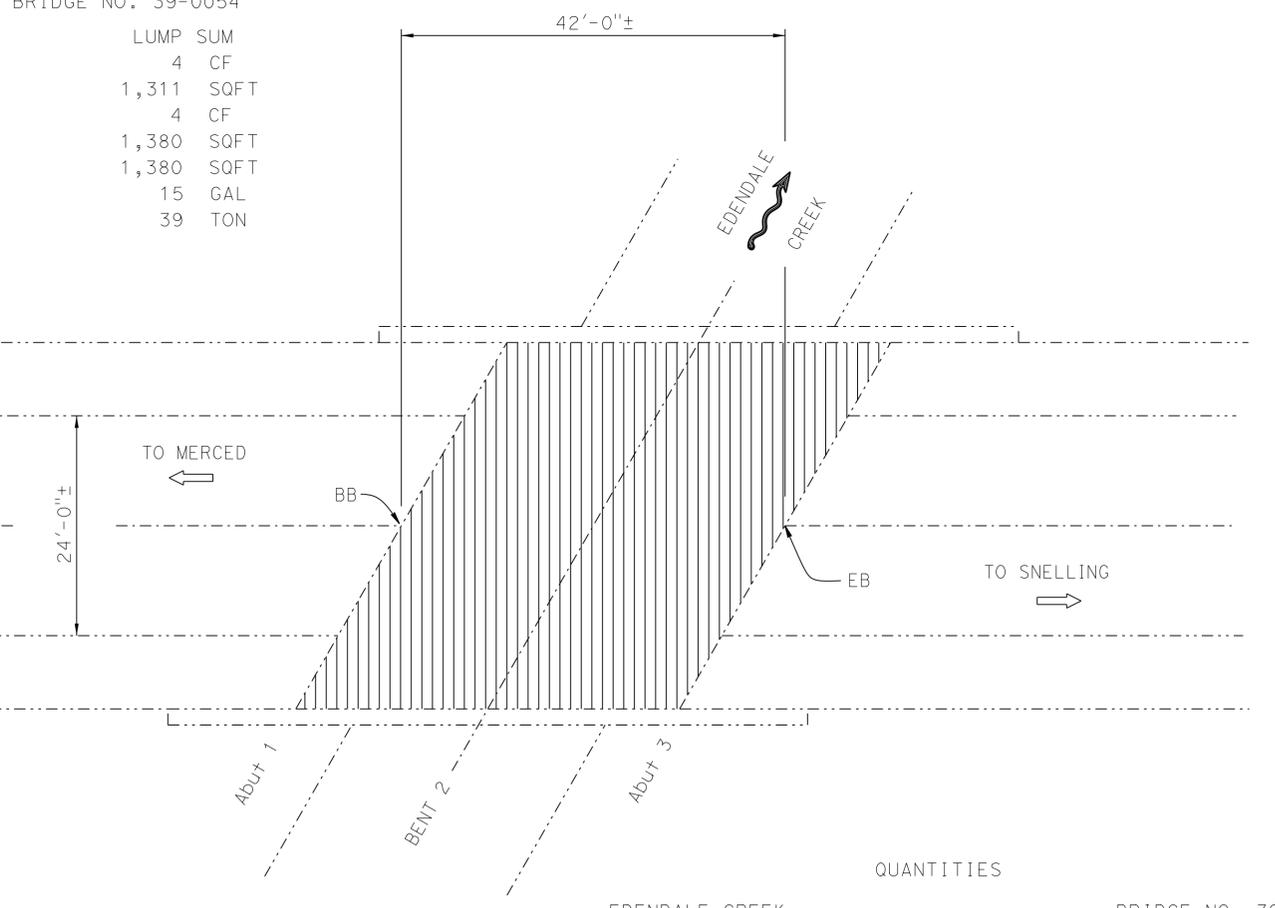


POSLO SLOUGH
 Br No. 39-0054, Mer, ROUTE 33, PM 4.37
 1"=10'



NOTE: SYMMETRICAL ABOUT CENTER LINE

DECK OVERLAY-CROWN
 NOTE: OVERLAY WILL PARALLEL EXISTING SLOPE AND CONFORM TO APPROACH PAVEMENT.
 NO SCALE



QUANTITIES

EDENDALE CREEK

PREPARE CONCRETE BRIDGE DECK SURFACE	1,680 SQFT
TREAT BRIDGE DECK	1,680 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	19 GAL

EDENDALE CREEK
 Br No. 39-0069, Mer, ROUTE 59, PM 24.09
 1"=10'



2-10-15
 DESIGN ENGINEER

DESIGN	BY A. FRANK	CHECKED A. NOJOUMI	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY DAVID KISH	CHECKED A. NOJOUMI	LAYOUT	BY DAVID KISH
QUANTITIES	BY A. FRANK	CHECKED A. NOJOUMI	SPECIFICATIONS	BY JARVIS MAHE

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	
VARIES	

ROUTE 5, 99, 33 & 59 BRIDGES
GENERAL PLAN NO. 5

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



UNIT: 3488
 PROJECT NUMBER & PHASE: 1014000094

CONTRACT NO.: 10-0Y8501

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
8-11-14 11-26-14	5	10

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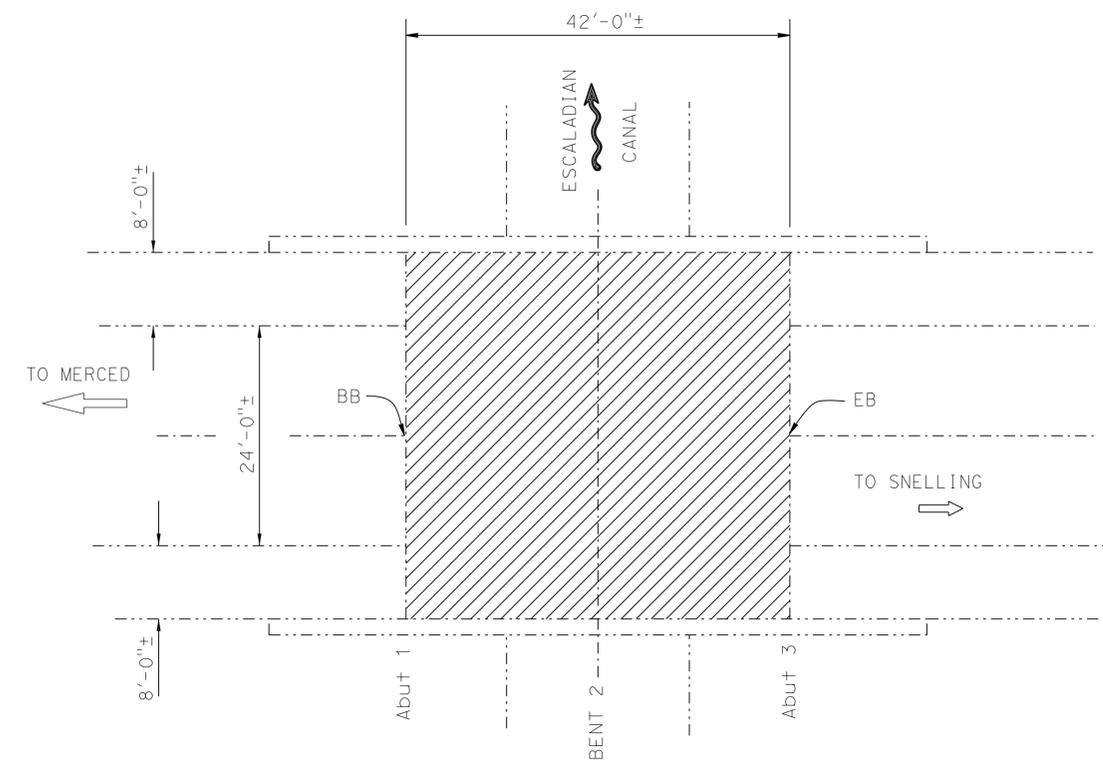
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mer, S.J. Sta	5, 33, 59, 99	Var	19	23

Arlene Frank 2-10-15
 REGISTERED CIVIL ENGINEER DATE

2-23-15
 PLANS APPROVAL DATE

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ESCALADIAN CANAL

Br No. 39-0109, Mer, ROUTE 59, PM 25.45
1"=10'

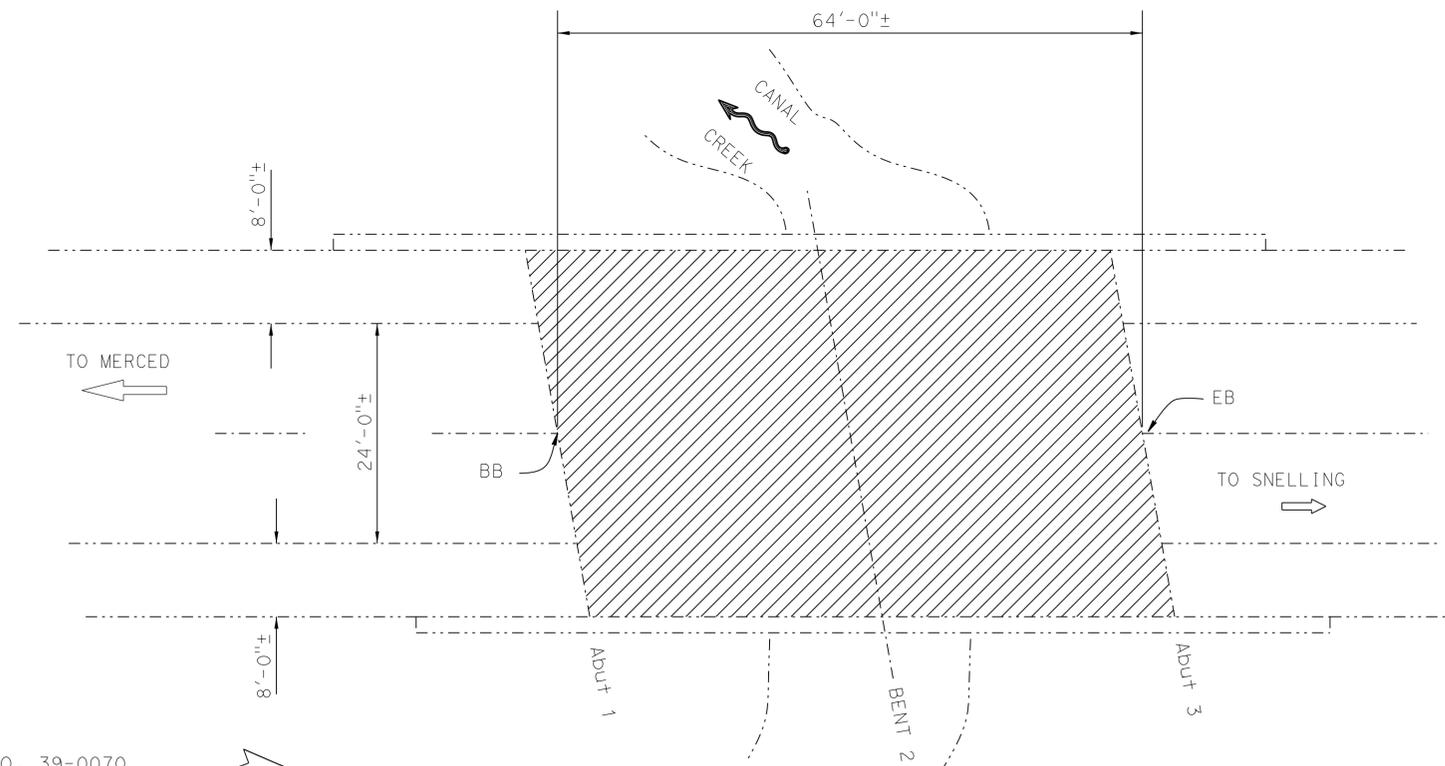
QUANTITIES

ESCALADIAN CANAL	BRIDGE NO. 39-0109
PREPARE CONCRETE BRIDGE DECK SURFACE	1,680 SQFT
TREAT BRIDGE DECK	1,680 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	19 GAL

NOTES: (APPLY TO THIS SHEET ONLY)



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



CANAL CREEK

Br No. 39-0070, Mer, ROUTE 59, PM 26.05
1"=10'

QUANTITIES

CANAL CREEK	BRIDGE NO. 39-0070
PREPARE CONCRETE BRIDGE DECK SURFACE	2,560 SQFT
TREAT BRIDGE DECK	2,560 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	28 GAL

DESIGN ENGINEER 2-10-15

DESIGN	BY A. FRANK	CHECKED A. NOJOUMI	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY DAVID KISH	CHECKED A. NOJOUMI	LAYOUT	BY DAVID KISH
QUANTITIES	BY A. FRANK	CHECKED A. NOJOUMI	SPECIFICATIONS	BY JARVIS MAHE

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

ROUTE 5, 99, 33 & 59 BRIDGES
GENERAL PLAN NO. 6

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



UNIT: 3488
 PROJECT NUMBER & PHASE: 1014000094

CONTRACT NO.: 10-0Y8501

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
8-11-14 11-26-14	6	10

FILE => 10-0y8501_06gp.dgn

USERNAME => s120300 DATE PLOTTED => 02-MAR-2015 TIME PLOTTED => 14:27

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mer, SJ, Sta	5, 33, 59, 99	Var	20	23

Arlene Frank 2-10-15
 REGISTERED CIVIL ENGINEER DATE
 2-23-15
 PLANS APPROVAL DATE
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JOINT SEAL TABLE

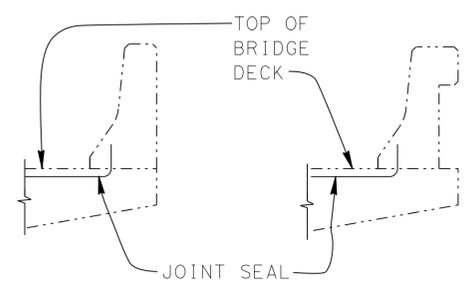
BRIDGE NAME	BRIDGE NUMBER	LOCATION		MINIMUM "MR" (in)	APPROXIMATE LENGTH (Ft)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXP JOINT (in)	APPROX LENGTH STRIP SEAL GLAND (Ft)
		Abut	BW					
ARCH ROAD UC	29-0316	Abut 1	BW	3	** 45.0	YES	60	* 81
		Abut 4	BW	3	** 19.0	YES	60	* 97
CALAVERAS RIVER	29-0008R	Abut 1	BW	1	70.0	YES	6	
		BENT 2	EJ	1	70.0	YES	6	
		BENT 3	EJ	1	70.0	YES	6	
		Abut 4	BW	1	70.0	YES	6	

GENERAL NOTES LOAD FACTOR DESIGN

DESIGN: BRIDGE DESIGN SPECIFICATIONS (1996 AASHTO with Interims and Revisions by CALTRANS)
 DEAD LOAD: Includes 35 psf for future wearing surface.
 LIVE LOADING: HS20-44 and alternative.
 REINFORCED CONCRETE: $f_y = 60$ ksi
 $f'_c = 3.6$ ksi
 $n = 8$

LEGEND:
 EJ - Expansion Joint
 BW - Backwall
 ** - Use joint seal assembly
 * - Replace neoprene strip seal gland

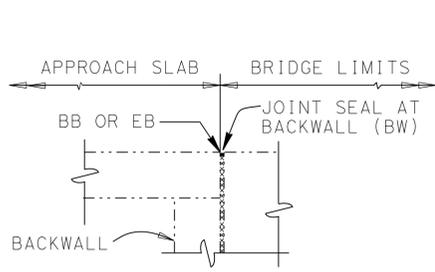
NOTE: All seals must be Type B, unless otherwise noted.



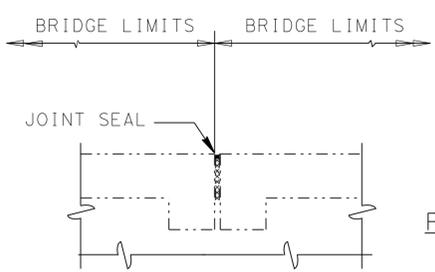
BARRIER RAIL

JOINT SEAL AT LOW SIDE OF DECK

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

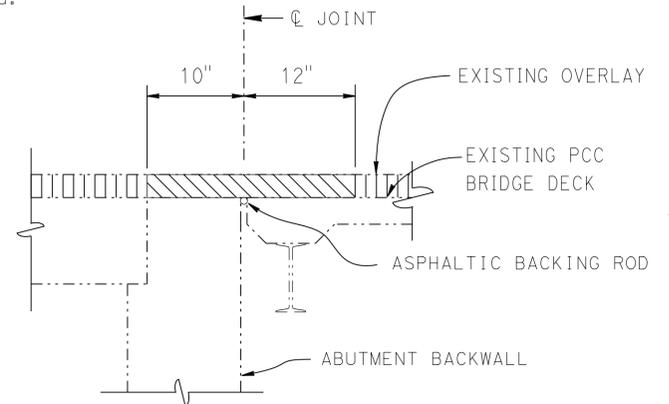


ABUTMENT WITH BACKWALL

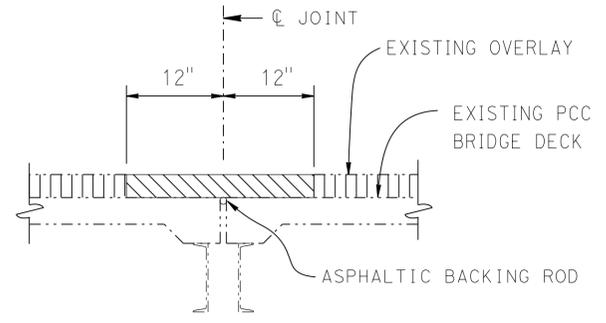


EXPANSION JOINT

JOINT SEAL LOCATION

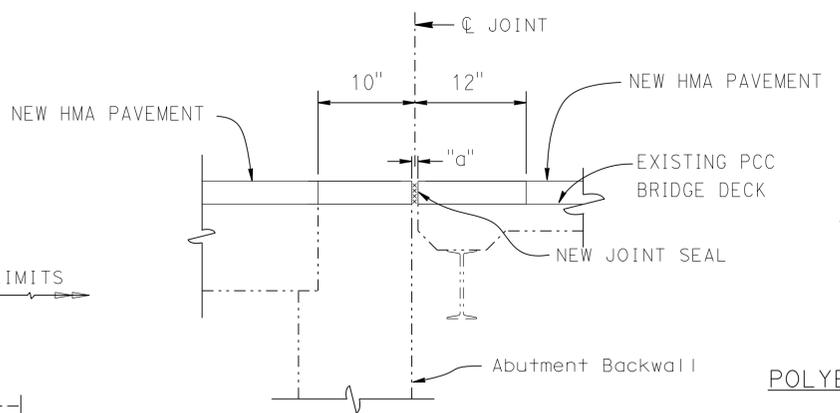


ASPHALTIC PLUG AT ABUTMENT

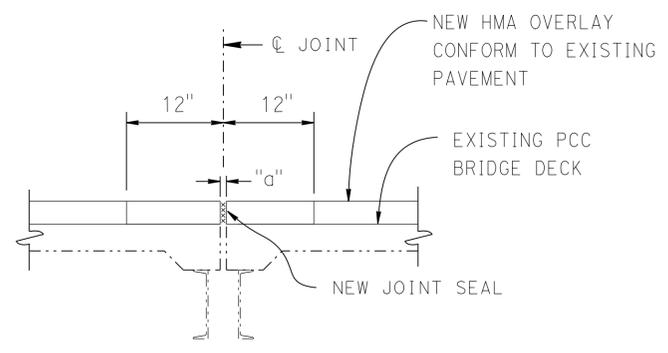


ASPHALTIC PLUG AT BENT

EXISTING



POLYESTER CONCRETE EXPANSION DAM AT ABUTMENT



POLYESTER CONCRETE EXPANSION DAM AT BENT

RECONSTRUCTION

CALAVERAS RIVER

NOTES: (APPLY TO THIS SHEET ONLY)
 Indicates limits of remove existing 1"± depth Asphaltic Plug and place new Polyester Concrete Expansion Dam and Joint Seal.
 Indicates limits of grind AC overlay and place new 1" HMA overlay, for location and limits see "GENERAL PLAN NO. 3" sheet.
 "a" Reconstructed gap width as determined by Engineer.

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

TEMPORARY DECK PLATE LOAD CRITERIA

MOMENT DEMAND/FOOT (kip-ft/ft)	BOLT SHEAR/FOOT (kip/ft)	BOLT TENSION (kip)
4.8	8.0	4.6

Plate deflection must not exceed $s/300$ (s = span in ft).
 Maximum anchor bolt spacing = 9".

NO SCALE

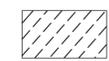
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mer, SJ, Sta	5, 33, 59, 99	Var	21	23

Arlene Frank 2-10-15
 REGISTERED CIVIL ENGINEER DATE
 2-23-15
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 ARLENE FRANK
 No. C 55562
 Exp. 12-31-16
 CIVIL
 STATE OF CALIFORNIA

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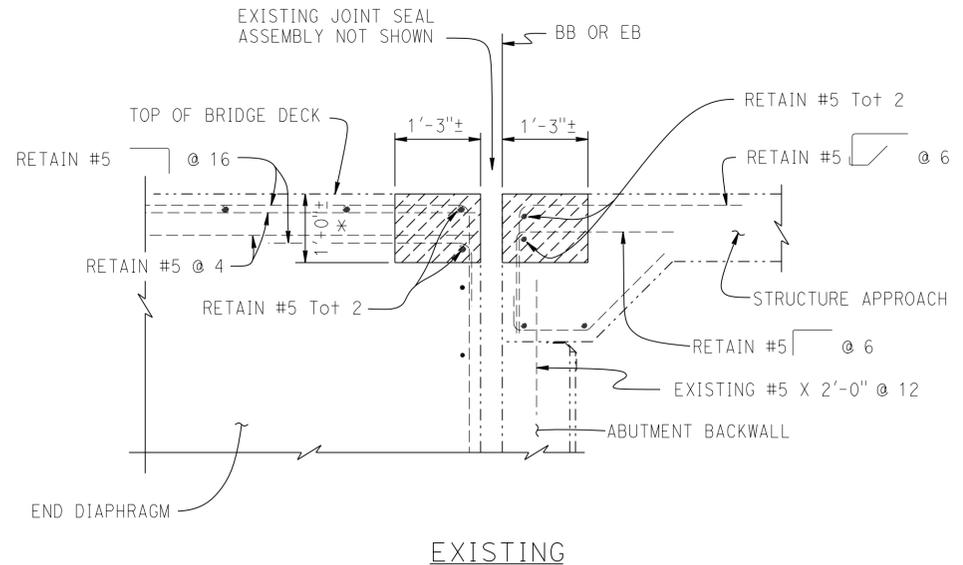
NOTES: (APPLY TO THIS SHEET ONLY)



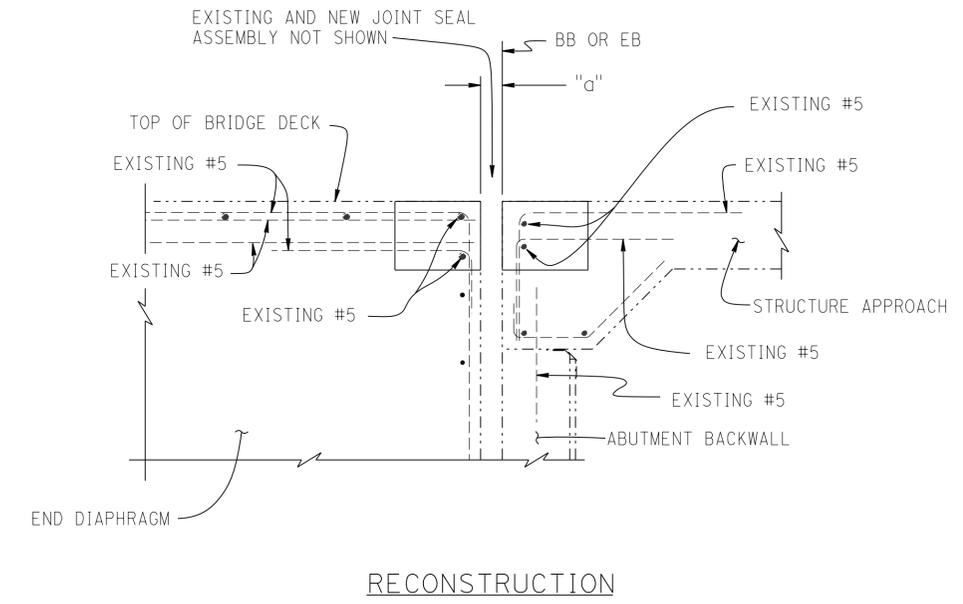
Indicates limits of remove existing concrete and joint seal assembly. Retain existing reinforcing steel as noted. Maintain a portion of joint seal assembly steel edge member to weld new steel edge member to match existing gap.

"a" Reconstructed gap width to match existing gap

* Depth of concrete removal varies as follows: 8" depth within deck overhang and 12" depth at the remaining length.



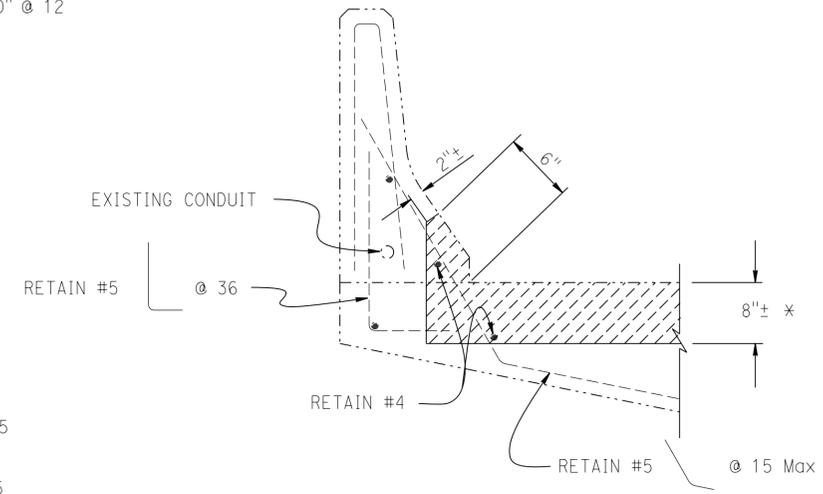
EXISTING



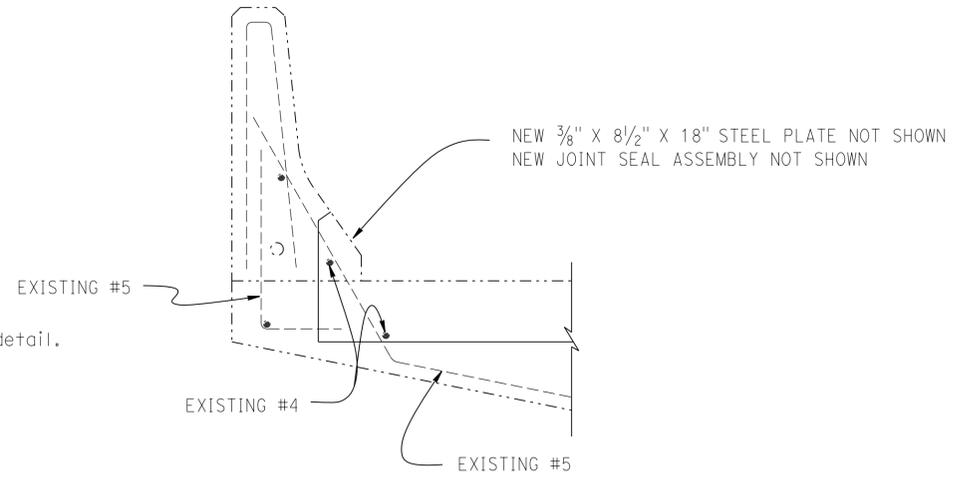
RECONSTRUCTION

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

NOTE: Bridge 29-0316 details at barrier rail type 27 not shown; see "TYPE 27 AT JOINT SEAL" detail.



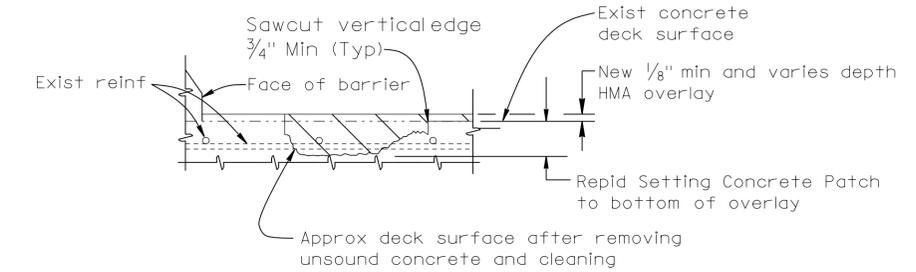
EXISTING



RECONSTRUCTION

TYPE 27 AT JOINT SEAL
1" = 1'-0"

DECK REPAIR TABLE			
REMOVE UNSOUND CONCRETE AND RAPID SETTING CONCRETE (PATCH)			
BRIDGE NUMBER	BRIDGE NAME	APPROXIMATE AREA DAMAGED (PERCENT)	APPROXIMATE DEPTH (INCHES)
39-0054	POSO SLOUGH	1	3



DECK REPAIR DETAIL-OVERLAY

Note: Reinforcement may be encountered during deck concrete removal.

DESIGN	BY A. FRANK	CHECKED A. NOJOURI
DETAILS	BY DAVID KISH	CHECKED A. NOJOURI
QUANTITIES	BY A. FRANK	CHECKED A. NOJOURI

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

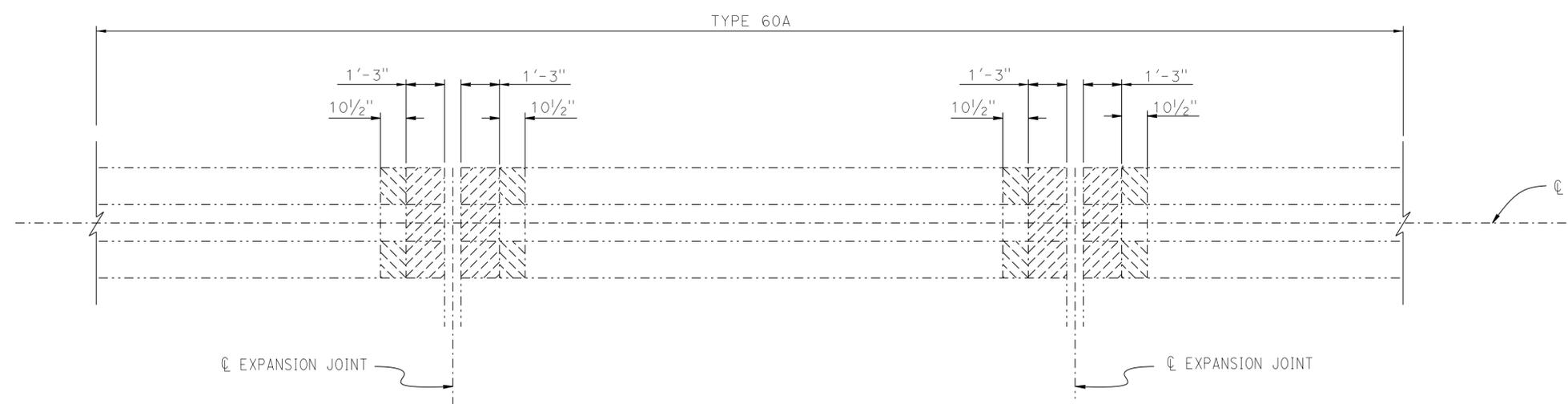
DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

ROUTE 5, 99, 33 & 59 BRIDGES
JOINT SEAL DETAILS NO. 2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mer, S.J., Sta	5, 33, 59, 99	Var	22	23

Arlene Frank 2-10-15
 REGISTERED CIVIL ENGINEER DATE
 2-23-15
 PLANS APPROVAL DATE
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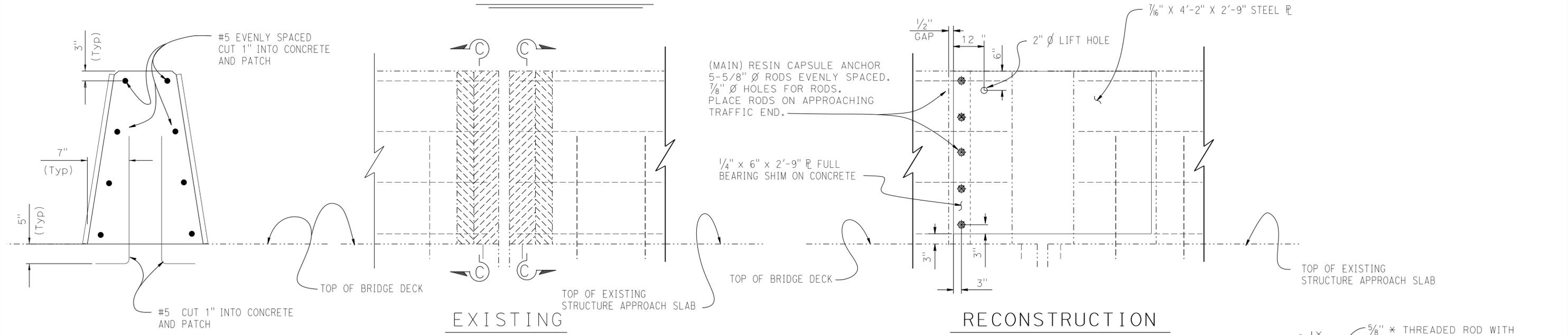
NOTES: (APPLY TO THIS SHEET ONLY)

Indicates limits of remove existing concrete barrier Type 60A. Cut reinforcing steel 1" into remaining concrete barrier and patch. Prepare surface smooth.

Indicates limits of remove 3/4" depth of concrete barrier Type 60A surface. New surface to be prepared smooth. Install new 7/16" thick plate.

STRUCTURAL STEEL fy = 50,000 psi

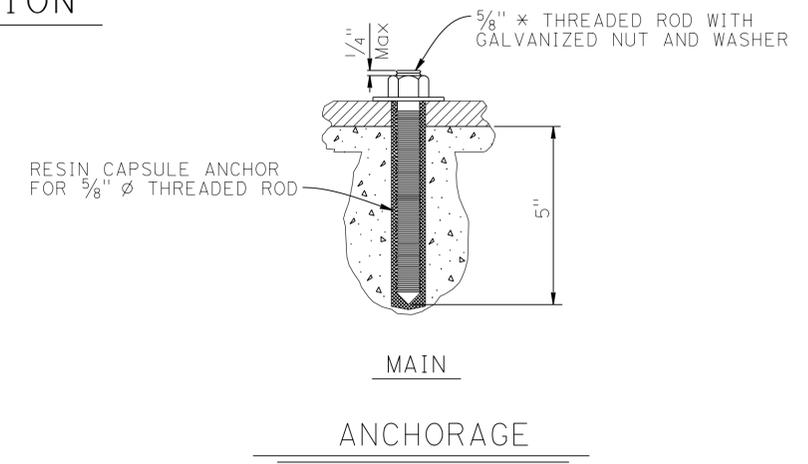
**MEDIAN CONCRETE BARRIER
PARTIAL PLAN**



SECTION C-C

RECONSTRUCTION

EXISTING



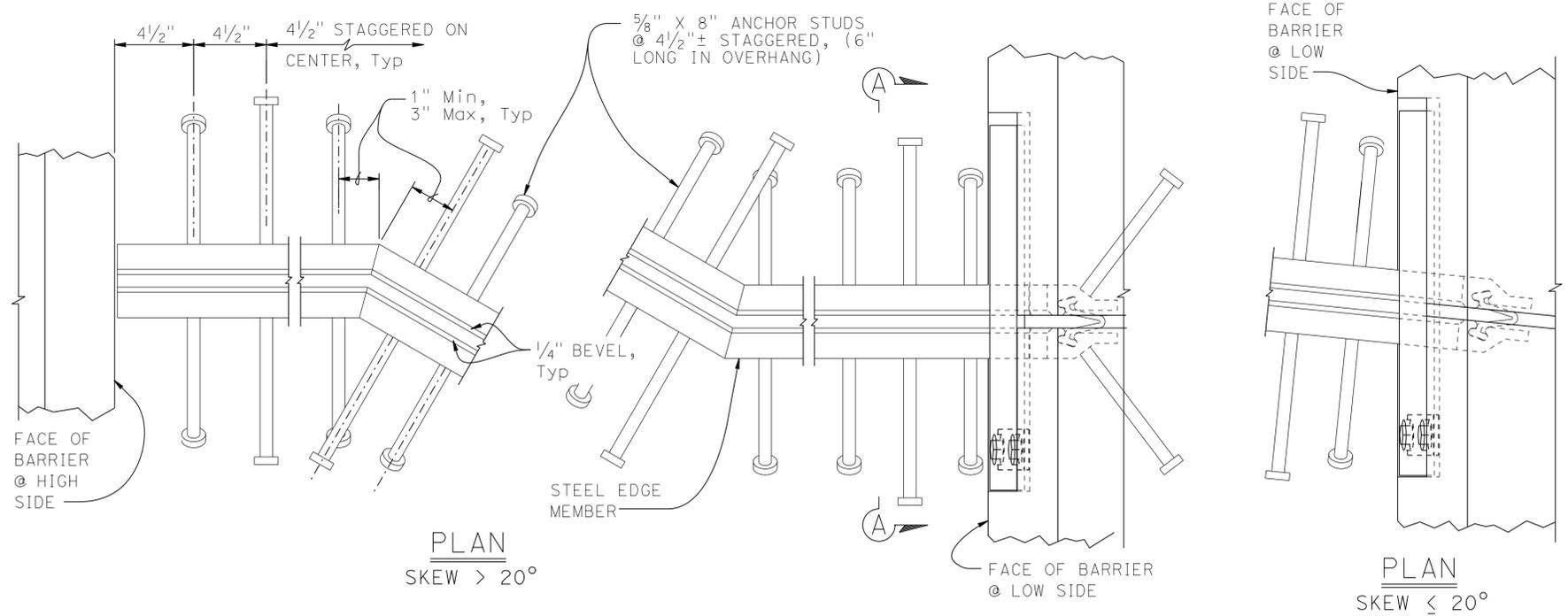
NO SCALE

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY A. FRANK	CHECKED A. NOJOUMI	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTE 5, 99, 33 & 59 BRIDGES				
	DETAILS	BY DAVID KISH	CHECKED A. NOJOUMI			VARIOUS					
	QUANTITIES	BY A. FRANK	CHECKED A. NOJOUMI			VARIES					
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					UNIT: 3488	PROJECT NUMBER & PHASE: 1014000094	CONTRACT NO.: 10-0Y8501	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 9	OF 10

FILE => 10-0y8501_09de103.dgn

USERNAME => s120300 DATE PLOTTED => 02-MAR-2015 TIME PLOTTED => 14:27

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Mer, S.J., Sta	5, 33, 59, 99	Var	23	23
Arlene Frank REGISTERED CIVIL ENGINEER			2-10-15 DATE		
2-23-15 PLANS APPROVAL DATE					
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.</small>					

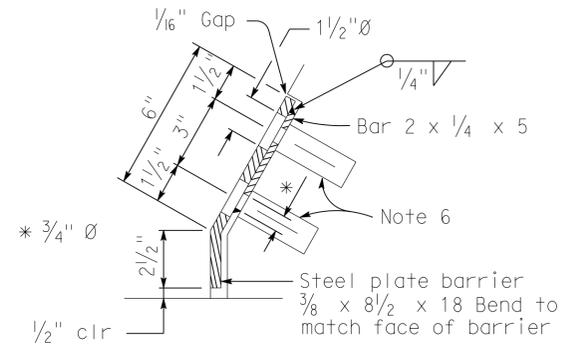
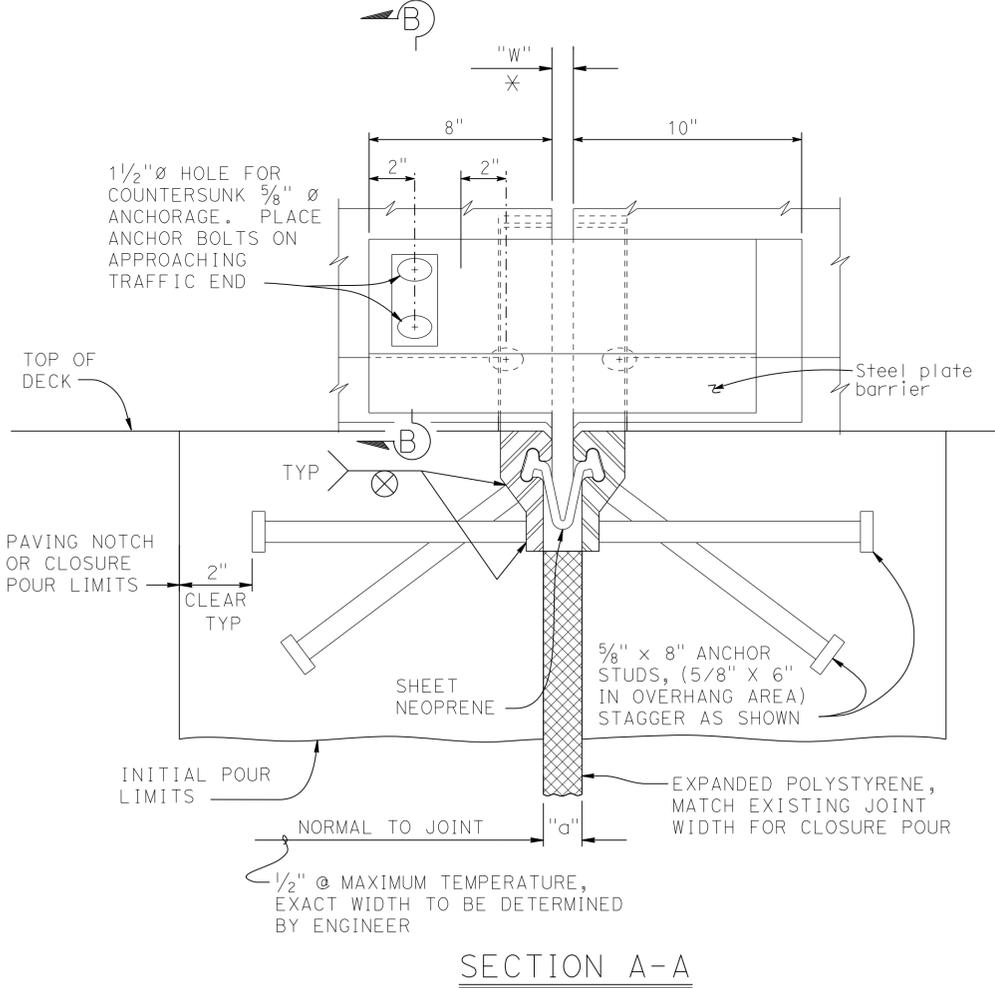


SCHEMATIC STEEL EDGE MEMBER

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 must 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 must be fabricated in one continuous piece and must 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.

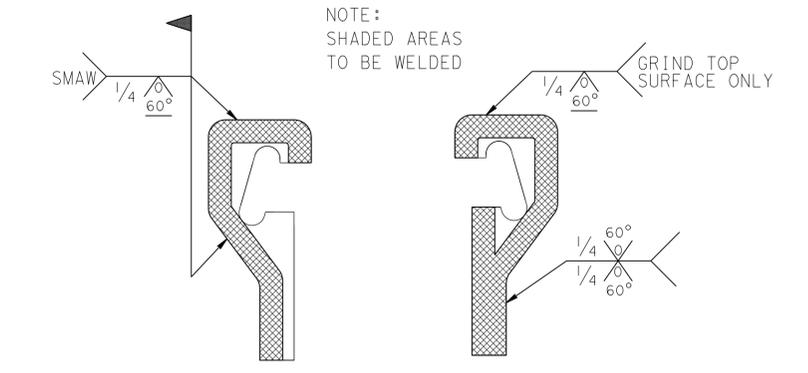
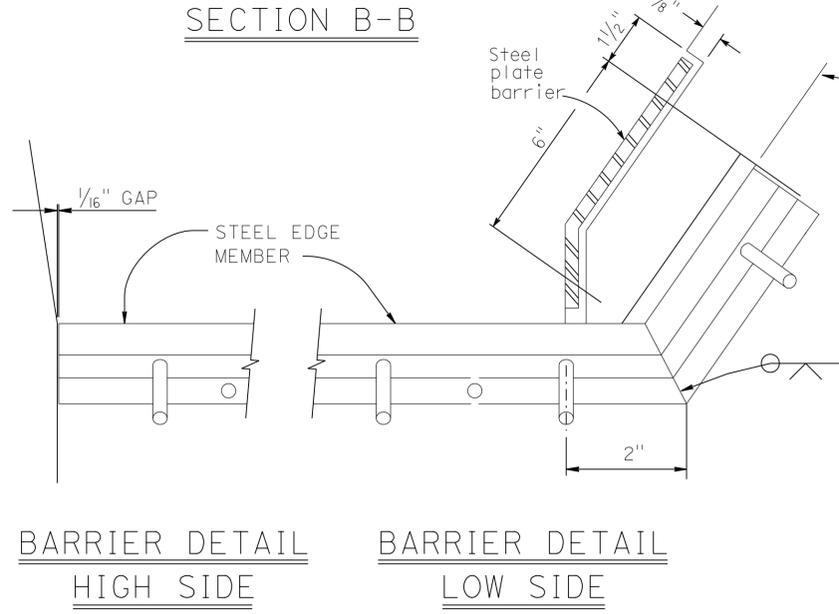
Anchor studs must conform to ASTM 108.



* TO SET MINIMUM JOINT OPENING "W"

$$"W" = 1/2" + [(Max Str temperature in °F) - (actual Str temperature in °F)] * (a_c or a_s) (12) (contributory L in feet)$$

$$a_c = 0.000006$$



SCHEMATIC FIELD WELD DETAIL

SCHEMATIC SHOP WELD DETAIL

DESIGN BY A. FRANK CHECKED A. NOJOURI			STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTE 5, 99, 33 & 59 BRIDGES STRIP JOINT SEAL ASSEMBLY MAXIMUM MOVEMENT RATING = 4"
DETAILS BY DAVID KISH CHECKED A. NOJOURI					VARIOUS	
QUANTITIES BY A. FRANK CHECKED A. NOJOURI					VARIES	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			UNIT: 3488 PROJECT NUMBER & PHASE: 1014000094	CONTRACT NO.: 10-0Y8501	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES SHEET 10 OF 10

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