

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	10	R110.4/R152.4	1	16

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN RIVERSIDE COUNTY
NEAR AND IN BLYTHE
FROM 4.9 MILES EAST OF JUNCTION ROUTE 177
TO 3.8 MILES EAST OF JUNCTION ROUTE 78

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010



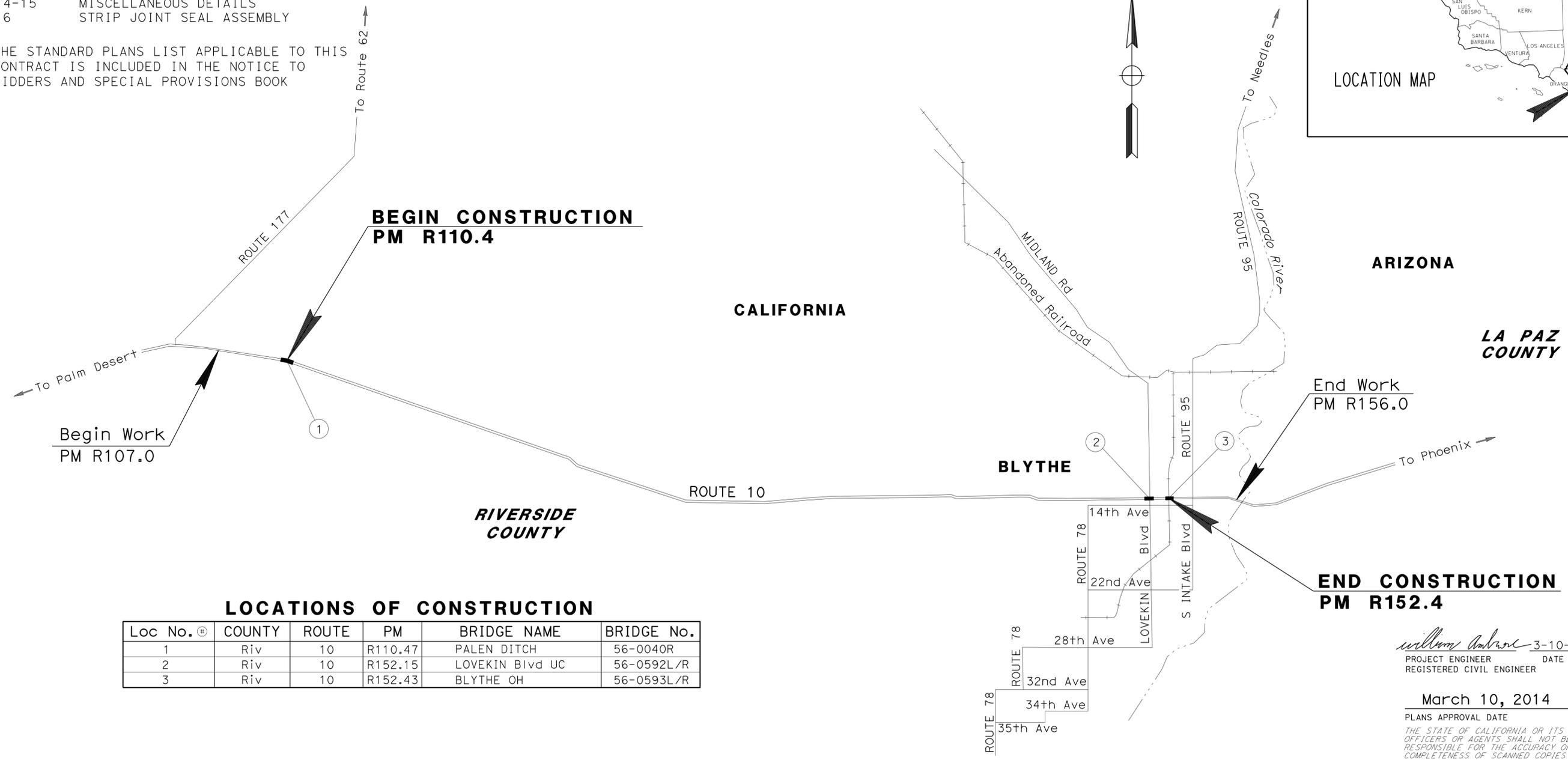
INDEX OF PLANS

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16	STRIP JOINT SEAL ASSEMBLY

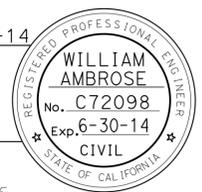
THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK



LOCATIONS OF CONSTRUCTION

Loc No. (⊕)	COUNTY	ROUTE	PM	BRIDGE NAME	BRIDGE No.
1	Riv	10	R110.47	PALEN DITCH	56-0040R
2	Riv	10	R152.15	LOVEKIN Blvd UC	56-0592L/R
3	Riv	10	R152.43	BLYTHE OH	56-0593L/R

William Ambrose 3-10-14
 PROJECT ENGINEER DATE
 REGISTERED CIVIL ENGINEER
March 10, 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.



PROJECT MANAGER
CATALINO PINING

DESIGN ENGINEER
WILLIAM AMBROSE

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

NO SCALE

DATE PLOTTED => 10-MAR-2014 TIME PLOTTED => 09:35

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	10	R110.4/R152.4	2	16

William Ambrose 3-10-14
 REGISTERED CIVIL ENGINEER DATE
 3-10-14
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
**WILLIAM
 AMBROSE**
 No. C72098
 Exp. 6-30-14
 CIVIL
 STATE OF CALIFORNIA

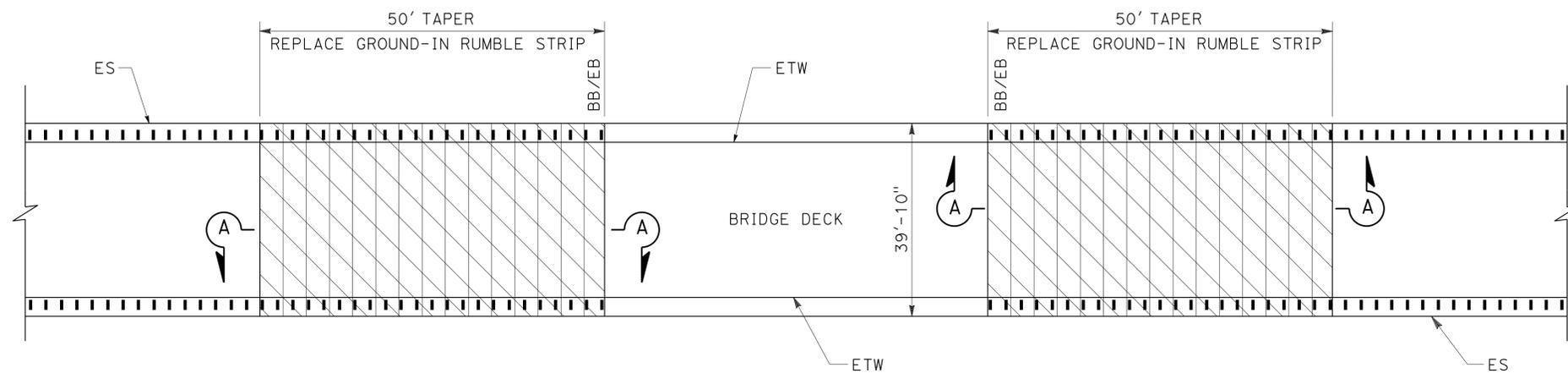
THE STATE OF CALIFORNIA OR ITS OFFICERS
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 COPIES OF THIS PLAN SHEET.

NOTE:

1. SEE STANDARD PLAN A40B FOR RUMBLE STRIP DETAILS.

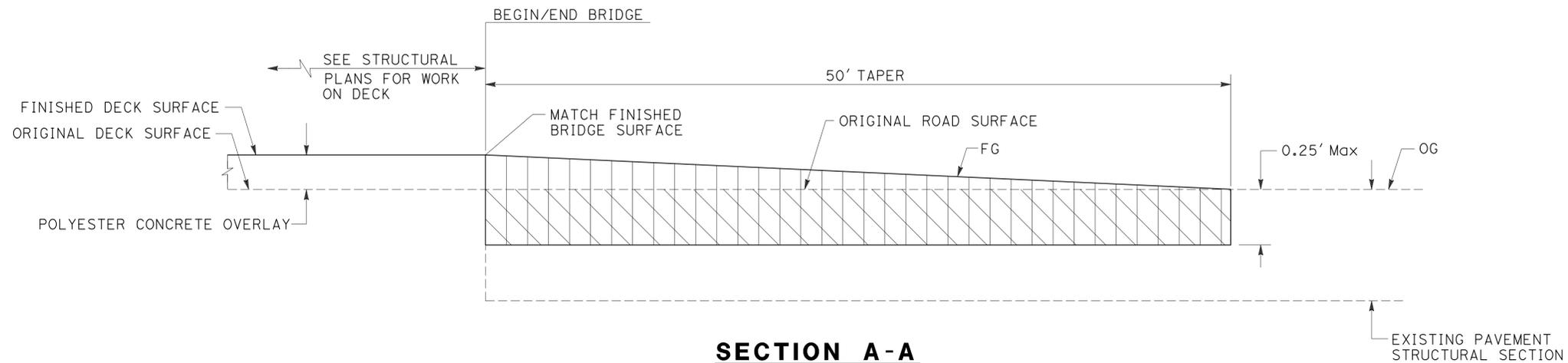
LEGEND:

-  0.25' Max COLD PLANE AC PAVEMENT
-  HMA (TYPE A)
-  SHOULDER RUMBLE STRIP (HMA, GROUND-IN INDENTATIONS)



**TYPICAL PAVING CONFORM AT BEGIN AND END
 OF BRIDGE DECK POLYESTER OVERLAY**

ROUTE 10 LOVEKIN Blvd UC 54-0592 L/R
 AND BLYTHE OH 56-0593 L/R



SECTION A-A

CONSTRUCTION DETAILS

NO SCALE

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	REVISOR	DATE
Caltrans MAINTENANCE DESIGN	KEVIN CHEN	WILLIAM AMBROSE	3-10-14
		KUAN H. CHEN	

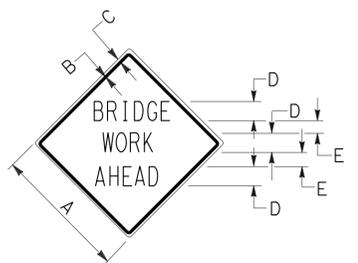
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	10	R110.4/R152.4	3	16
<i>W. E. Wasser</i> 3-10-14 REGISTERED CIVIL ENGINEER DATE					
3-10-14			PLANS APPROVAL DATE		
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No. (X)	SIGN CODE		PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	No. OF SIGNS
	FEDERAL	CALIFORNIA				
A	W20-1 (SPECIAL)		48" x 48"	BRIDGE WORK AHEAD	1 - 6" x 6"	3
B	G20-2		48" x 24"	END ROAD WORK	1 - 4" x 6"	3
C	W20-1		36" x 36"	ROAD WORK AHEAD	1 - 4" x 6"	6
D	G20-2		36" x 18"	END ROAD WORK	1 - 4" x 4"	2
E		C40<CA>	108" x 42"	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	2 - 6" x 6"	3

NOTE:
1. FOR ADDITIONAL CONSTRUCTION AREA SIGNS SEE MI SHEETS.

- LEGEND:**
- CONSTRUCTION AREA
 - CONSTRUCTION AREA SIGN (ONE POST)
 - CONSTRUCTION AREA SIGN (TWO POST)
 - CONSTRUCTION AREA SIGN LETTER
 - PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)



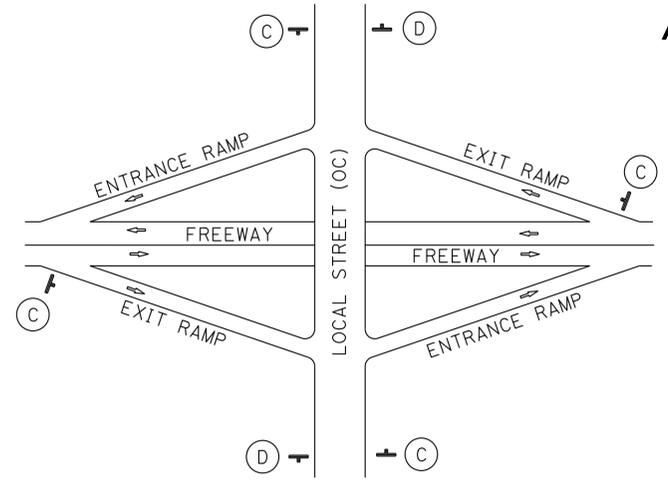
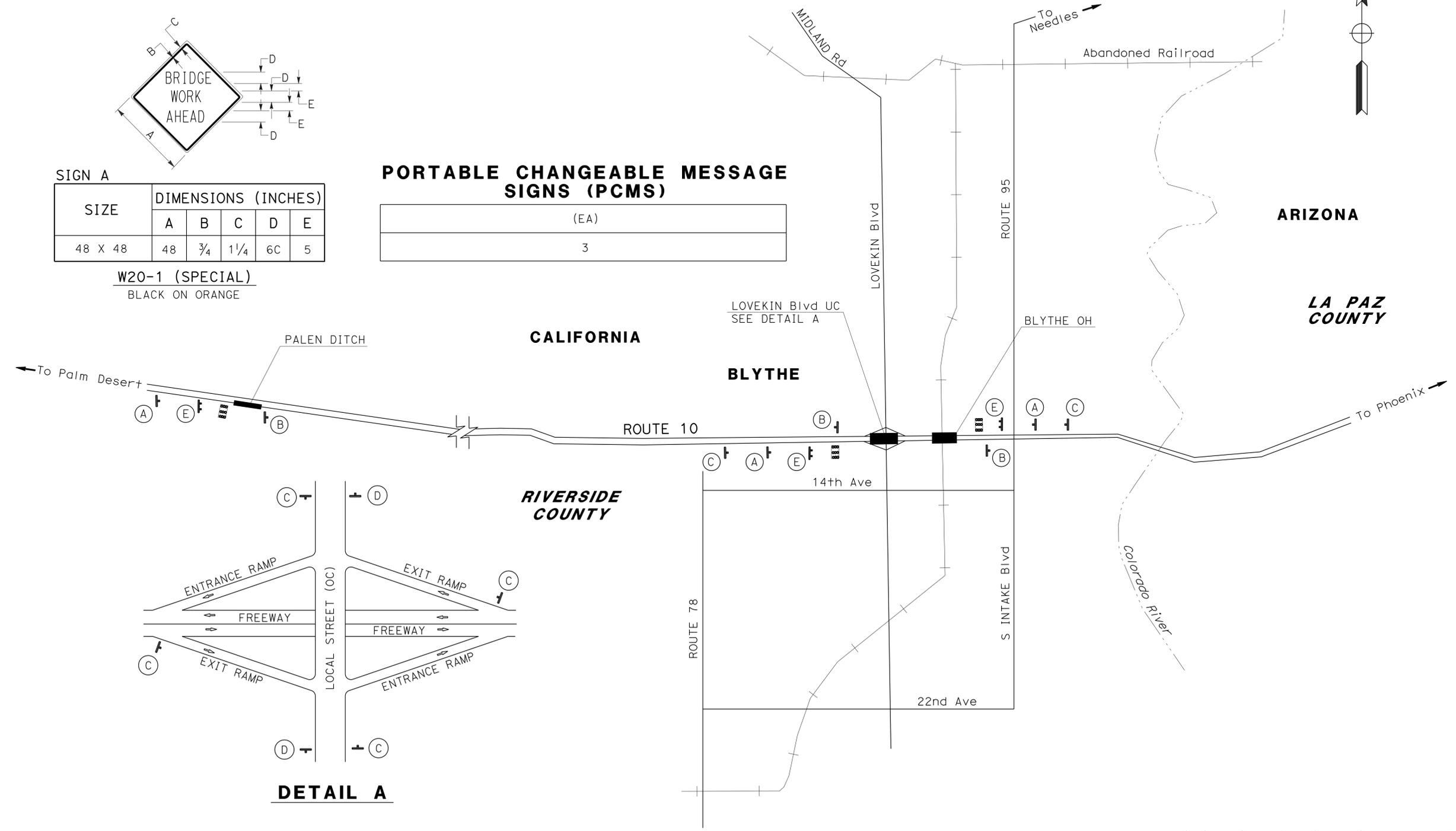
SIGN A

SIZE	DIMENSIONS (INCHES)				
	A	B	C	D	E
48 X 48	48	3/4	1 1/4	6C	5

W20-1 (SPECIAL)
BLACK ON ORANGE

PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS)

(EA)
3



DETAIL A

CONSTRUCTION AREA SIGNS

NO SCALE **CS-1**

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN
 FUNCTIONAL SUPERVISOR: W. E. WASSER
 CALCULATED/DESIGNED BY: PATTI BARTOLI
 CHECKED BY: HORMUZD SETHNA
 REVISOR: PATTI BARTOLI
 DATE: 7/2/2010

USERNAME => s125726
DGN FILE => 08130000751a001.dgn

RELATIVE BORDER SCALE 1/8" = 1'-0"

UNIT 2284

PROJECT NUMBER & PHASE

08130000751

LAST REVISION: DATE PLOTTED => 10-MAR-2014
 03-10-14 TIME PLOTTED => 09:35

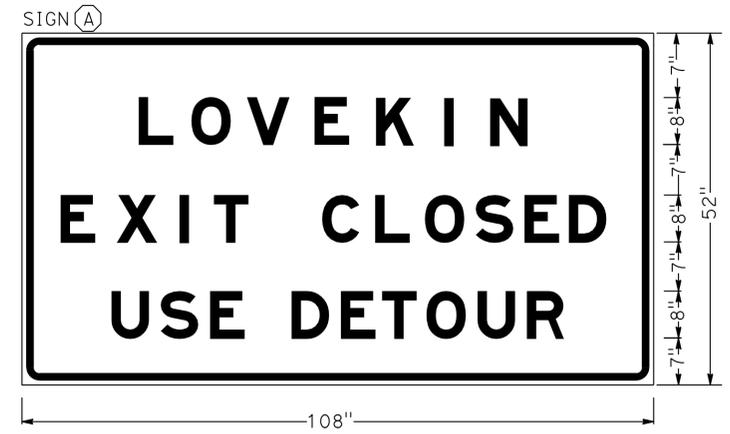
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	10	R110.4/R152.4	4	16
<i>W. E. Wasser</i> 3-10-14 REGISTERED CIVIL ENGINEER DATE					
3-10-14			PLANS APPROVAL DATE		
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

LEGEND:

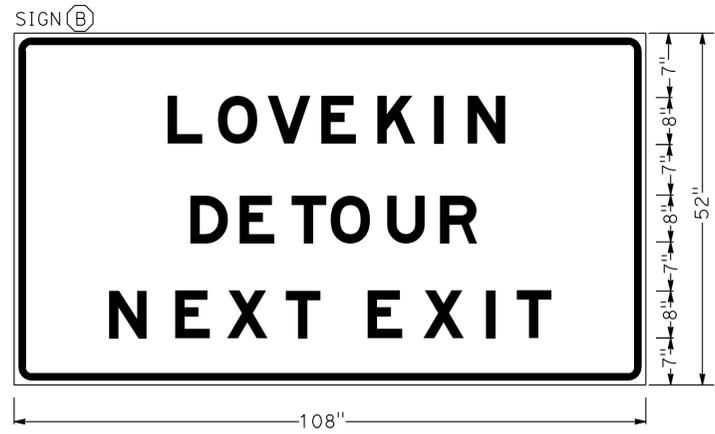
- ⊕ CONSTRUCTION AREA SIGN (TWO POST)
- ⊖ CONSTRUCTION AREA SIGN (ONE POST)
- ⊗ CONSTRUCTION AREA SIGN LETTER
- ↔ DIRECTION OF DETOUR
- ▬ CONSTRUCTION WORK AREA
- XX RAMP CLOSURE

NOTE:

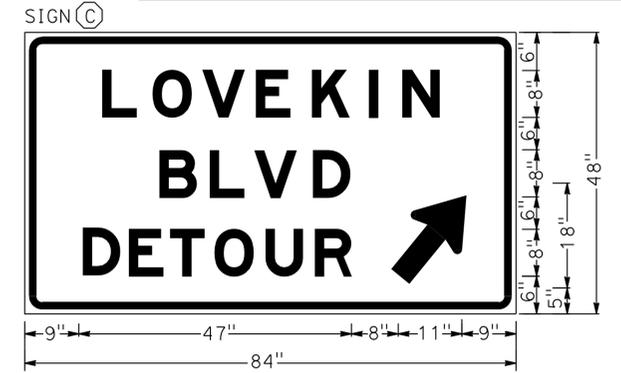
1. FOR ADDITIONAL CONSTRUCTION AREA SIGNS SEE SHEET CS-1.



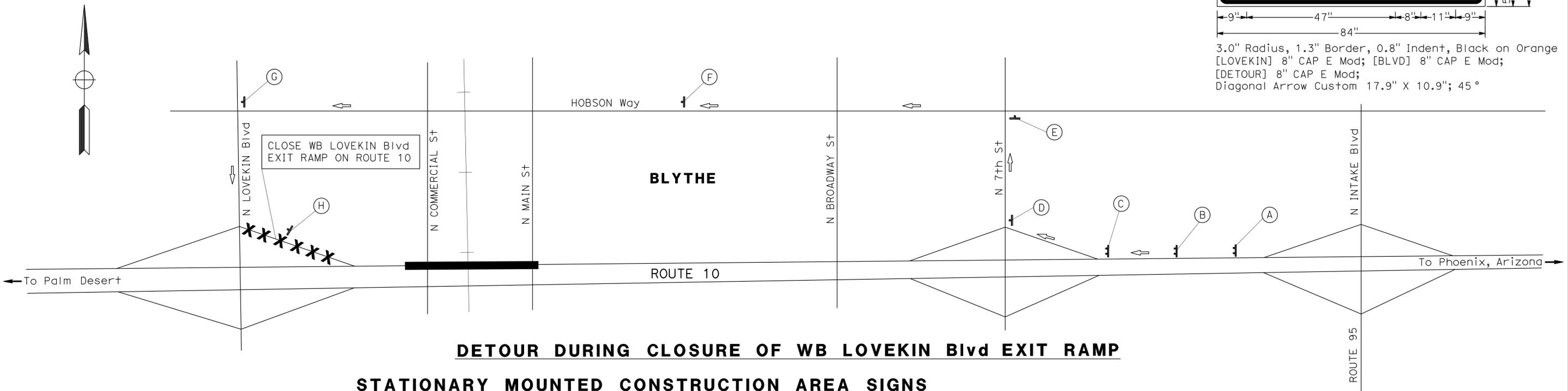
3.0" Radius, 1.3" Border, 0.8" Indent, Black on Orange [LOVEKIN] 8"E Mod; [EXIT CLOSED] 8"E Mod; [USE DETOUR] 8"E Mod;



3.0" Radius, 1.3" Border, 0.8" Indent, Black on Orange [LOVEKIN] 8" CAP E Mod; [DETOUR] 8" CAP E Mod; [NEXT EXIT] 8" CAP E Mod



3.0" Radius, 1.3" Border, 0.8" Indent, Black on Orange [LOVEKIN] 8" CAP E Mod; [BLVD] 8" CAP E Mod; [DETOUR] 8" CAP E Mod; Diagonal Arrow Custom 17.9" X 10.9"; 45°



DETOUR DURING CLOSURE OF WB LOVEKIN Blvd EXIT RAMP

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No. ⊗	SIGN CODE		PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
	FEDERAL	CALIFORNIA				
A	C-SPECIAL		108" x 52"	LOVEKIN RAMP CLOSED USE DETOUR	2 - 6" x 8"	1
B	C-SPECIAL		108" x 52"	LOVEKIN DETOUR NEXT EXIT	2 - 6" x 8"	1
C	C-SPECIAL		84" x 48"	LOVEKIN BLVD DETOUR (DIAGONAL ARROW)	2 - 4" x 6"	1
D	M4-10(RT)		48" x 18"	DETOUR (RIGHT)	1 - 4" x 4"	1
E	M4-10(LT)		48" x 18"	DETOUR (LEFT)	1 - 4" x 4"	1
F		SC3(CA)	48" x 18"	DETOUR (UP ARROW)	1 - 4" x 4"	1
G	M4-8A		24" x 18"	END DETOUR	1 - 4" x 4"	1
H		SC6-4(CA)	48" x 60"	(ADVANCE NOTICE) RAMP CLOSED	1 - 6" x 6"	1

MOTORIST INFORMATION PLAN

NO SCALE

MI-1

APPROVED FOR MOTORIST INFORMATION WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN
 FUNCTIONAL SUPERVISOR: W. E. WASSER
 CHECKED BY: HORMUZD SETHNA
 DESIGNED BY: PATTI BARTOLI
 REVISIONS: (None listed)

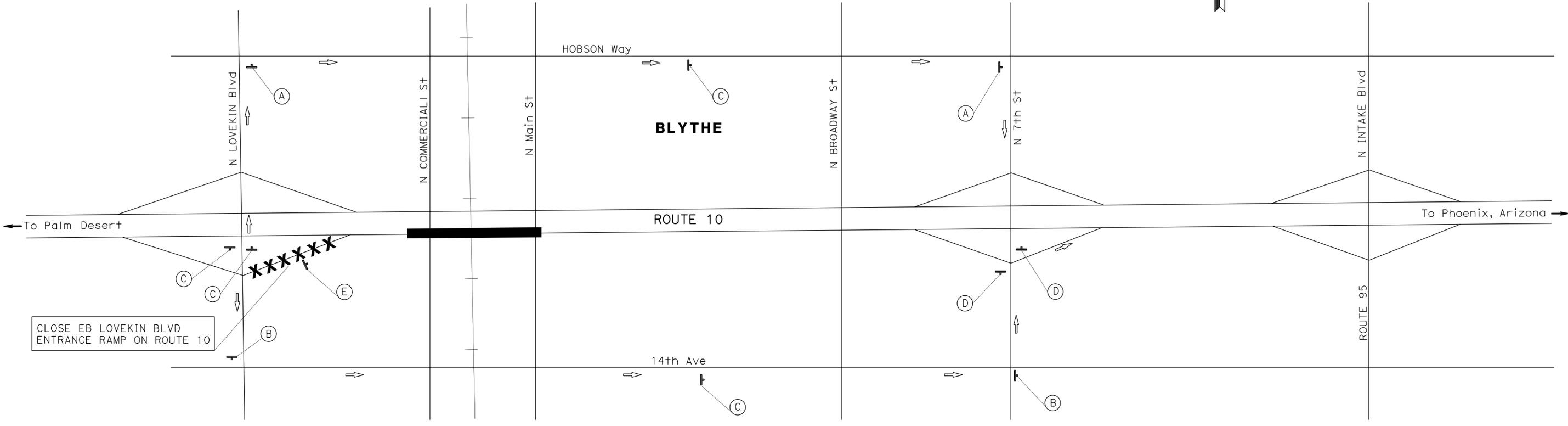
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	10	R110.4/R152.4	5	16

W. E. Wasser 3-10-14
 REGISTERED CIVIL ENGINEER DATE

3-10-14
 PLANS APPROVAL DATE

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

REGISTERED PROFESSIONAL ENGINEER
W. E. WASSER
 No. C37378
 Exp. 6-30-14
 CIVIL
 STATE OF CALIFORNIA



DETOUR DURING CLOSURE OF EB LOVEKIN Blvd ENTRANCE RAMP

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No. (X)	SIGN CODE		PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
	FEDERAL	CALIFORNIA				
A	M4-10(RT)		48" x 18"	DETOUR (RIGHT)	1 - 4" x 4"	2
B	M4-10(LT)		48" x 18"	DETOUR (LEFT)	1 - 4" x 4"	2
C		SC3<CA>	48" x 18"	DETOUR (UP ARROW)	1 - 4" x 4"	4
D	M4-8A		24" x 18"	END DETOUR	1 - 4" x 4"	2
E		SC6-4<CA>	48" x 60"	(ADVANCE NOTICE) RAMP CLOSED	1 - 6" x 6"	1

MOTORIST INFORMATION PLAN

NO SCALE

MI-2

APPROVED FOR MOTORIST INFORMATION WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN
 FUNCTIONAL SUPERVISOR: W. E. WASSER
 CALCULATED/DESIGNED BY: PATTI BARTOLI, HORMUZD SETHNA
 CHECKED BY: [blank]
 REVISED BY: [blank], DATE REVISED: [blank]

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	10	R110.4/R152.4	6	16

W E Wasser 3-10-14
 REGISTERED CIVIL ENGINEER DATE

3-10-14
 PLANS APPROVAL DATE

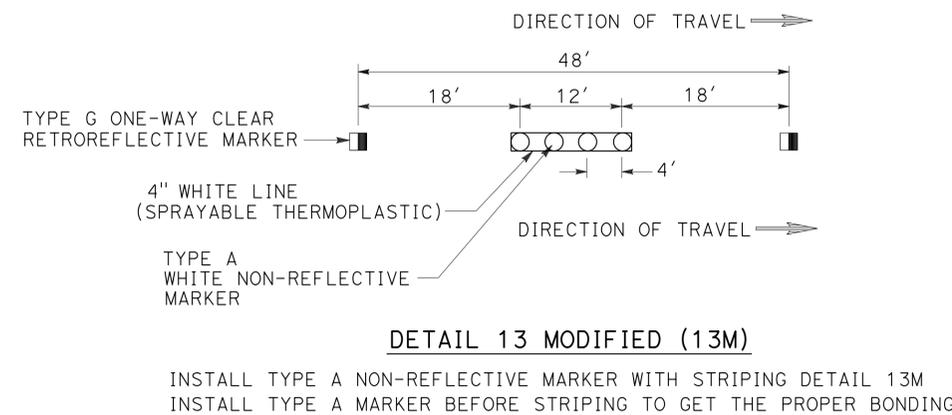
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PAVEMENT DELINEATION QUANTITIES

ROUTE	PM	LOCATION BRIDGE NAME / BRIDGE NUMBER	DETAIL No. OR PAVEMENT MARKING	REMOVE PAVEMENT MARKERS EA	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE) LF	REMOVE THERMOPLASTIC TRAFFIC STRIPE LF	THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)			PAVEMENT MARKER				
							4" YELLOW	4" WHITE	8" WHITE	NON- REFLEC TIVE TYPE A	RETROREFLECTIVE TYPE			
							EA	EA	EA		C	D	G	H
							EA	EA	EA	EA	EA	EA	EA	EA
Riv 10	R110.47	PALEN DITCH BRIDGE No. 56-0040R	DETAIL 25	5	189		189							5
	R152.15	LOVEKIN Blvd UC BRIDGE No. 56-0592L/R	DETAIL 25	15	652		652							15
			DETAIL 13M	70		163	652		55			15		
			DETAIL 27B			652								
	R152.43	BLYTHE OH BRIDGE No. 56-0593L/R	DETAIL 25	31	1434		1434							31
			DETAIL 13M	151		359	1434		120			31		
			DETAIL 27B			1434								
	R110.4/ R152.4	MAINLINE	DETAIL 25	9222										9222
			DETAIL 13M	45989					36793			9196		
	SUBTOTAL							2275	4172	0		0	0	9242
TOTAL				55483	2275	2608	6447			36968	18515			

NOTE:

- FROM POSTMILE R110.4 TO POSTMILE R152.4 ON Riv 10, REMOVE EXISTING PAVEMENT MARKERS ON DETAIL 25 AND DETAIL 13M AND INSTALL NEW PAVEMENT MARKERS ON DETAIL 25 AND DETAIL 13M. EXISTING STRIPE TO REMAIN ON PALEN DITCH, LOVEKIN Blvd UC AND BLYTHE OH, REMOVE TRAFFIC STRIPE AND INSTALL NEW STRIPE AND PAVEMENT MARKERS.



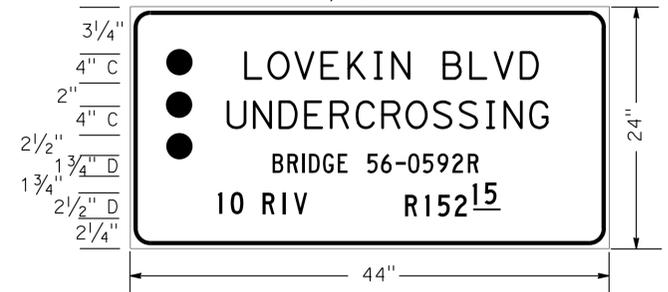
PAVEMENT DELINEATION QUANTITIES

PDQ-1

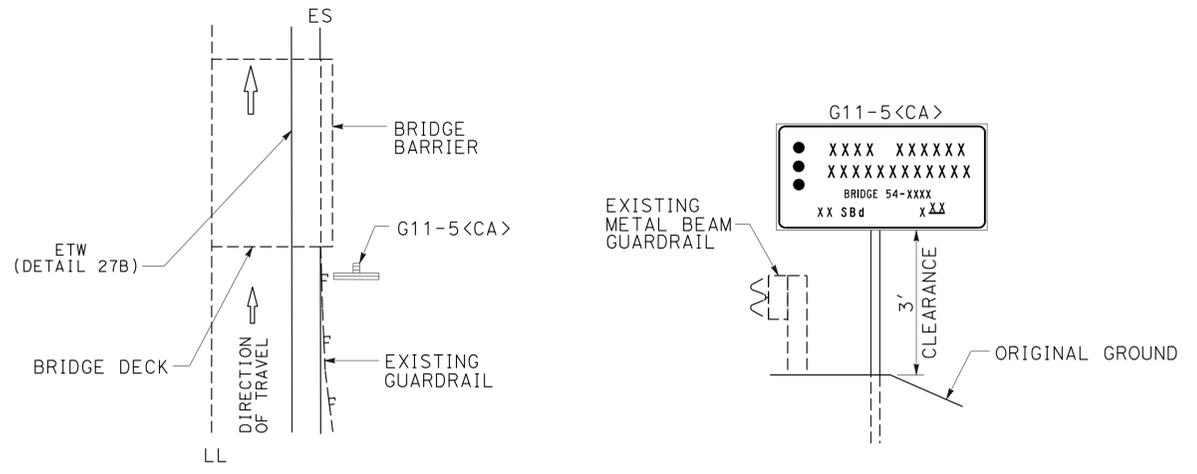
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	10	R110.4/R152.4	7	16
<i>W E Wasser</i> 3-10-14 REGISTERED CIVIL ENGINEER DATE					
3-10-14			PLANS APPROVAL DATE		
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INSTALL ROADSIDE SIGN (ONE POST)

G11-5(CA) RIV 10, FEBT



1.5" Rad., 0.375" Border, Black on White;
 [LOVEKIN BLVD] 4"C; [UNDERCROSSING] 4"C;
 [BRIDGE 56-0592R] 1 3/4" D; [10 RIV R152.15] 2 1/2" D



TYPICAL LOCATION AND INSTALLATION OF G11-5(CA) SIGN

NO SCALE

ROADSIDE SIGN QUANTITIES

LOCATION	DIRECTION	SIGN CODE		PANEL SIZE L x D	POST SIZE AND LENGTH		ROADSIDE SIGN	REMARKS
		FEDERAL	CALIFORNIA		4" X 4"	4" X 6"	ONE POST	
		INCHES		LF	LF	EA		
Riv 10, Br No. 56-0592R	FEBT		G11-5(CA)	44 X 24	7.5		1	LOVEKIN Blvd UNDERCROSSING
TOTAL							1	

SIGN PANEL MATERIAL SUMMARY

LOCATION	DIRECTION	SIGN CODE		PANEL SIZE L x D	SINGLE FACED	SIGN FACING MATERIAL				FURNISH SINGLE SHEET ALUMINUM SIGN (0.063" UNFRAMED)	REMARKS	
		FEDERAL	CALIFORNIA			BACKGROUND		LEGEND				PRO-TECTIVE FILM
		INCHES		SHEETING COLOR		RETROREFLECTIVE ASTM TYPE	SHEETING COLOR	RETROREFLECTIVE ASTM TYPE	PREMIUM			
Riv 10, Br No. 56-0592R	FEBT		G11-5(CA)	44 X 24	X	WHITE	II	BLACK	--	X	7.3	LOVEKIN Blvd UNDERCROSSING
TOTAL											7.3	

SIGN QUANTITIES SQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN
 FUNCTIONAL SUPERVISOR: W. E. WASSER
 CALCULATED/DESIGNED BY: PATTI BARTOLI
 CHECKED BY: HORMUZZ SETHNA
 REVISED BY: DATE
 REVISIONS:

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	10	R110.4/R152.4	8	16

William Ambrose 3-10-14
REGISTERED CIVIL ENGINEER DATE

3-10-14
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR
KEVIN CHEN

CALCULATED/DESIGNED BY
CHECKED BY

WILLIAM AMBROSE
KUAN H. CHEN

REVISED BY
DATE REVISED

PAVEMENT STRUCTURE QUANTITIES

LOCATION	POSTMILE	DIRECTION	SHOULDER RUMBLE STRIP (HMA, GROUND-IN INDENTATIONS)	COLDPLANE ASPHALT CONCRETE PAVEMENT	TACK COAT	HOT MIX ASPHALT (TYPE A)
			Sta	SQYD	TON	TON
LOVEKIN Blvd UC (56-0592 L)	R152.15	WB	1	467	1.4	89
LOVEKIN Blvd UC (56-0592 R)	R152.15	EB	1	467	1.4	89
BLYTHE OH (56-0593 L)	R152.43	WB	1	467	1.4	92
BLYTHE OH (56-0593 R)	R152.43	EB	1	444	1.3	81
TOTAL			4	1844	5.5	351

SUMMARY OF QUANTITIES
Q-1

LAST REVISION DATE PLOTTED => 10-MAR-2014 03-10-14 TIME PLOTTED => 09:35

	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
08	Riv	10	R110.4/R152.4	9	16

Grace M. Tsushima
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

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

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

TO ACCOMPANY PLANS DATED 3-10-14

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

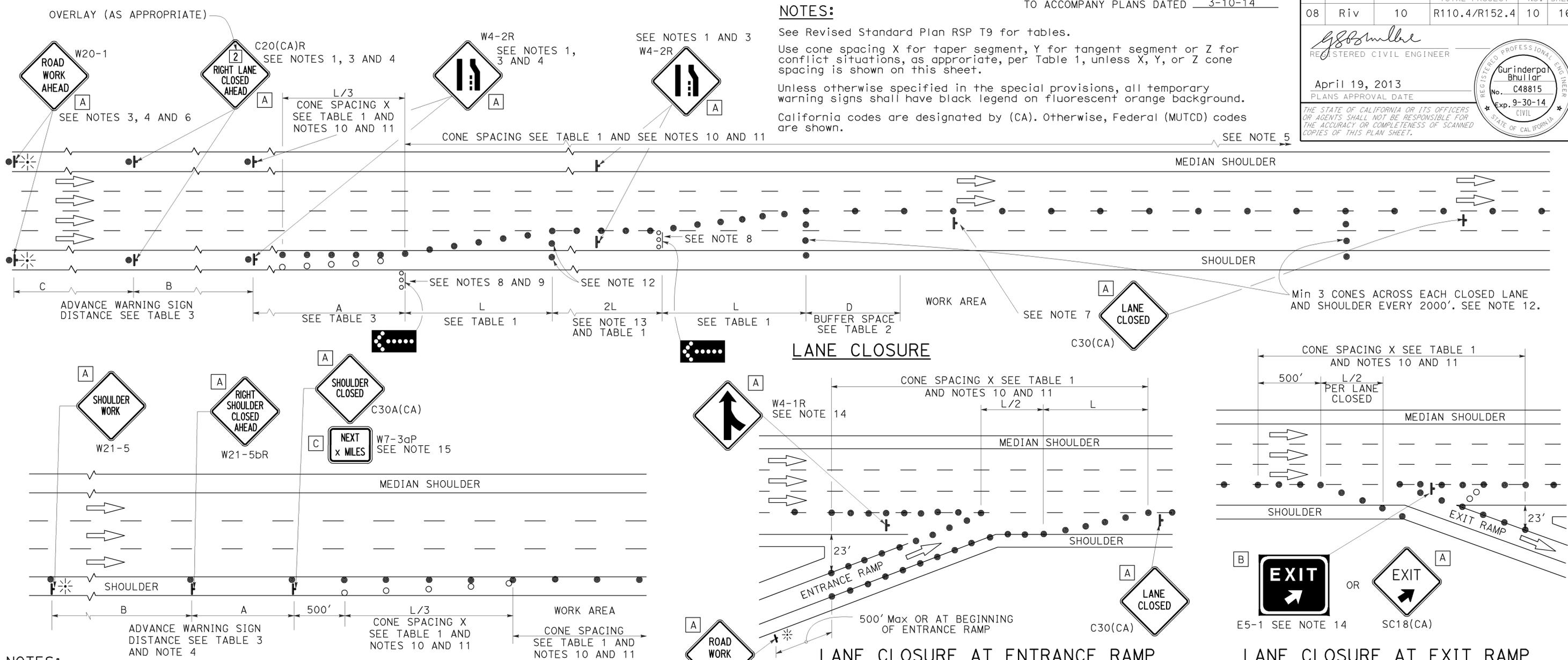
RSP A10B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A10B
DATED MAY 20, 2011 - PAGE 2 OF THE STANDARD PLANS BOOK DATED 2010.

2010 REVISED STANDARD PLAN RSP A10B

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	10	R110.4/R152.4	10	16

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 _____ MILES", use a C20(CA)L and W4-2L signs shall be used.
 - Place a C30(CA) sign every 2000' throughout length of lane closure.
 - One flashing arrow sign for each lane closed. The flashing arrow signs shall be Type I.
 - A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at top of crest vertical curve or on a horizontal curve.
 - All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
 - Portable delineators, placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.

- LANE CLOSURE AT ENTRANCE RAMP**
- LANE CLOSURE AT EXIT RAMP**
- Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000' as shown on the "Lane Closure" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
 - Unless otherwise specified in the special provisions, the 2L tangent shown along lane lines shall be used between the L tapers required for each closed traffic lane.
 - Unless otherwise specified in the special provisions, the E5-1 or SC18(CA) and W4-1 signs shall be used as shown.
 - A W7-3aP "NEXT _____ MILES" plaque must be used if the shoulder closure extends beyond the distance that can be perceived by road users.

LEGEND

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

SIGN PANEL SIZE (Min)

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

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

NO SCALE

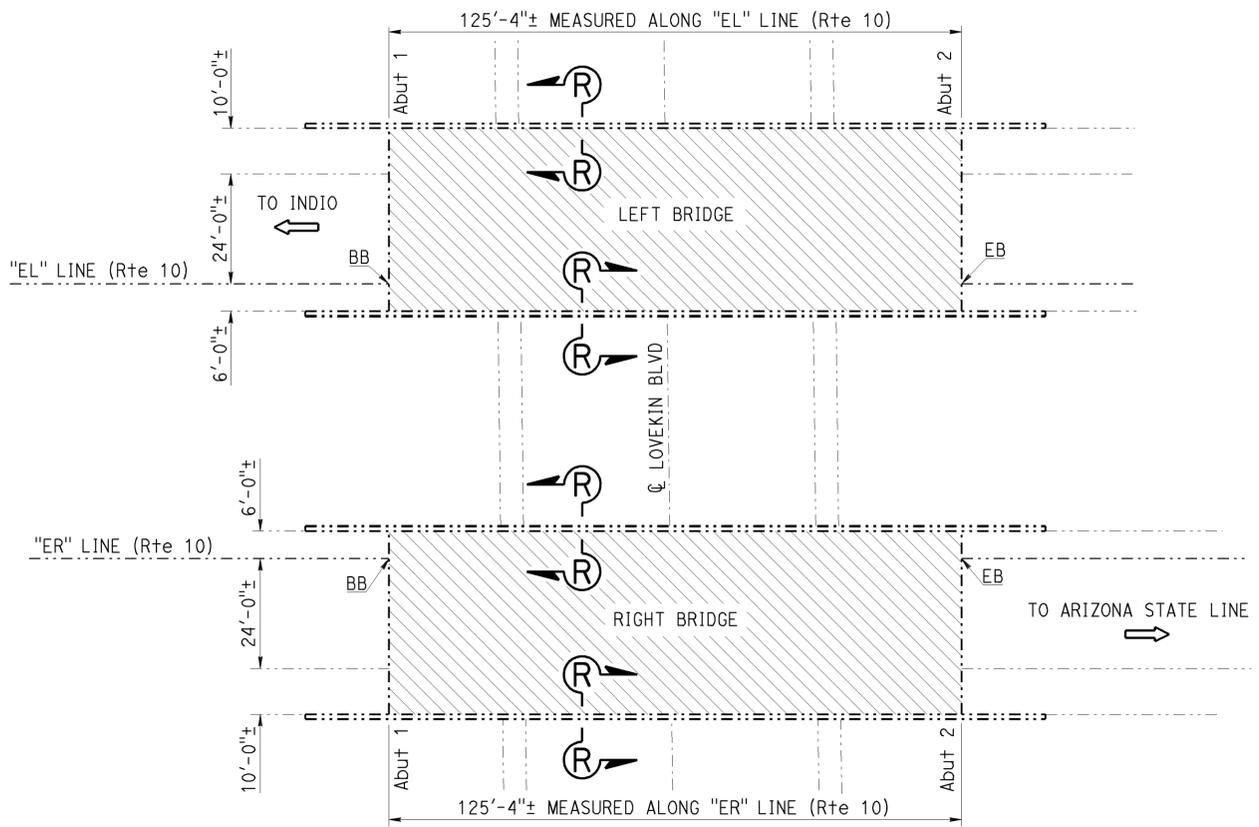
RSP T10 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T10 DATED MAY 20, 2011 - PAGE 237 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T10

2010 REVISED STANDARD PLAN RSP T10

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	10	R110.4/R152.4	11	16
			12-30-13		
REGISTERED CIVIL ENGINEER			DATE		
3-10-14			PLANS APPROVAL DATE		
Arlene Frank REGISTERED PROFESSIONAL ENGINEER No. C 55562 Exp. 12-31-14 CIVIL STATE OF CALIFORNIA					
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NOTE: (APPLY TO ALL SHEETS)
 ----- Indicates existing.



NOTES: (APPLY TO THIS SHEET ONLY)

- Indicates limits of prepare concrete bridge deck surface, furnish and place new 3/4" minimum depth polyester concrete overlay. Prior to placing new polyester concrete overlay, remove unsound concrete and patch with rapid setting concrete as shown on the "Deck Repair Detail - Overlay" on "MISCELLANEOUS DETAILS NO. 2" sheet.
- For remove concrete deck surface, see "Section R-R" on "MISCELLANEOUS DETAILS NO. 2" sheet.



LOVEKIN BOULEVARD UNDERCROSSING
 Br. No. 56-0592L/R, ROUTE 10, Riv, PM R152.15
 1" = 20'

LOVEKIN BOULEVARD UC BR. NO. 56-0592L/R

QUANTITIES

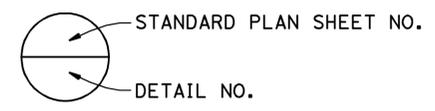
RAPID SETTING CONCRETE (PATCH)	26	CF
REMOVE CONCRETE DECK SURFACE	2,507	SQFT
REMOVE UNSOUND CONCRETE	26	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	10,027	SQFT
FURNISH POLYESTER CONCRETE OVERLAY	752	CF
PLACE POLYESTER CONCRETE OVERLAY	10,027	SQFT

INDEX TO PLANS

SHEET NO.	TITLE
1	GENERAL PLAN NO. 1
2	GENERAL PLAN NO. 2
3	JOINT SEAL DETAILS
4	MISCELLANEOUS DETAILS NO. 1
5	MISCELLANEOUS DETAILS NO. 2
6	STRIP JOINT SEAL ASSEMBLY MAXIMUM MOVEMENT RATING = 4"

STANDARD PLANS 2010

SHEET NO.	TITLE
A10A	ABBREVIATIONS (SHEET 1 OF 2)
RSP A10B	ABBREVIATIONS (SHEET 2 OF 2)
B7-6	DECK DRAINS TYPES D-1 AND D-2



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

Matthew Lee
 DESIGN ENGINEER 11-26-13

DESIGN	BY A. Frank	CHECKED T. Campbell	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Dale Kubochi	CHECKED T. Campbell	LAYOUT	BY Dale Kubochi
QUANTITIES	BY A. Frank	CHECKED T. Campbell	SPECIFICATIONS	BY Vaikunthan Renganathan
				CHECKED A. Frank
				PLANS AND SPECS COMPARED Vaikunthan Renganathan

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
 POST MILE VARIES

**ROUTE 10 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: 0813000075

CONTRACT NO.: 08-1C8901

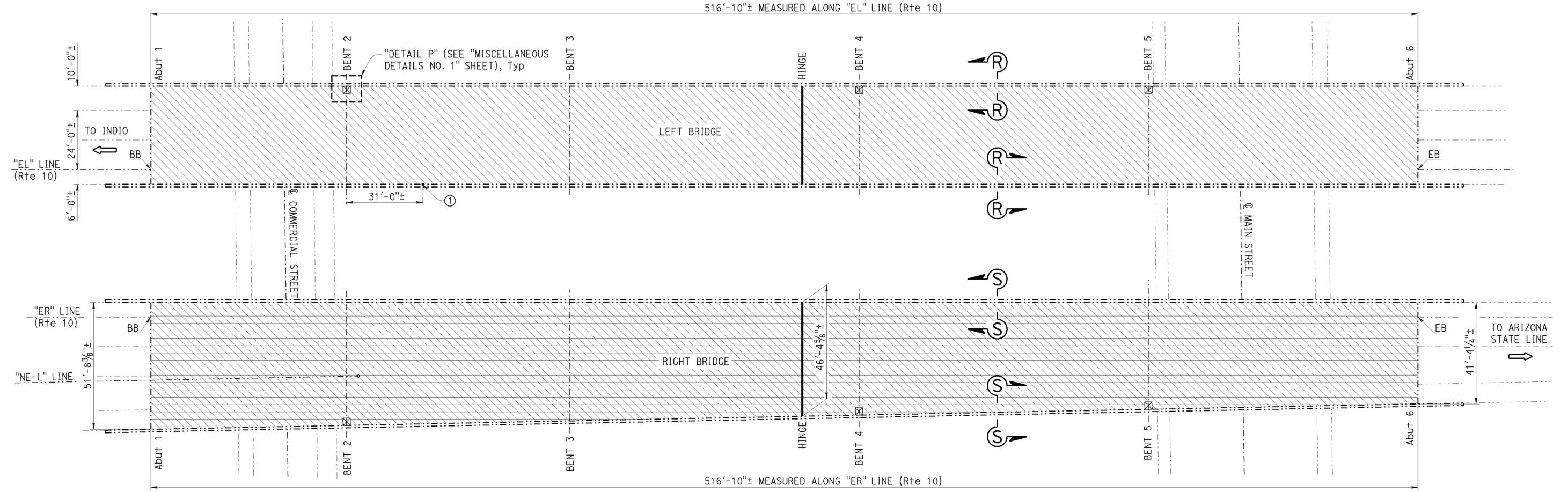
DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
3-27-13 1-27-14 3-6-14	1	6

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	10	R110.4/R152.4	12	16

Arlene Frank 12-30-13
 REGISTERED CIVIL ENGINEER DATE
 3-10-14
 PLANS APPROVAL DATE

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BLYTHE OVERHEAD

BR. NO. 56-0593L/R



BLYTHE OVERHEAD

Br. No. 56-0593L/R, ROUTE 10, Riv, PM R152.43
1" = 20'

QUANTITIES

RAPID SETTING CONCRETE (PATCH)	1,057	CF
REPAIR SPALLED SURFACE AREA	0.4	SQFT
REMOVE CONCRETE DECK SURFACE	29,214	SQFT
REMOVE UNSOUND CONCRETE	1,057	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	44,721	SQFT
FURNISH POLYESTER CONCRETE OVERLAY	4,472	CF
PLACE POLYESTER CONCRETE OVERLAY	44,721	SQFT
BRIDGE REMOVAL (PORTION)	LUMP	SUM
STRUCTURAL CONCRETE, BRIDGE	5	CY
CLEAN EXPANSION JOINT	88	LF
JOINT SEAL ASSEMBLY (MR 3 1/2")	88	LF
BAR REINFORCING STEEL (BRIDGE)	218	LB
CLEAN AND PAINT EXISTING BRIDGE	243	LF
DECK DRAINAGE SYSTEM		

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

NOTES: (APPLY TO THIS SHEET ONLY)

- Indicates limits of prepare concrete bridge deck surface, furnish and place new 1" minimum depth polyester concrete overlay. Prior to placing new polyester concrete overlay, remove unsound concrete and patch with rapid setting concrete as shown on the "Deck Repair Detail - Overlay" on "MISCELLANEOUS DETAILS NO. 2" sheet.
 - Indicates limits of remove 1/2" concrete deck. Maintain existing deck reinforcing steel.
 - Indicates location of clean existing Type D-2 Deck Drain, remove existing debris, clean grate and paint zinc - rich primer. For details, see "Drainage Details" on "MISCELLANEOUS DETAILS NO.1" sheet.
 - Indicates location of existing joint seal removal and placement of new joint seal assembly. For details, see "JOINT SEAL DETAILS" AND "JOINT SEAL ASSEMBLY MAXIMUM MOVEMENT RATING = 4" sheets.
 - ① Spall repair on concrete barrier face, approximate 10" x 6" area.
- For remove concrete deck surface, see "Section R-R" and "Section S-S" on "MISCELLANEOUS DETAILS NO. 2" sheet.

DESIGN ENGINEER 11-26-13

DESIGN	BY A. Frank	CHECKED T. Campbell
DETAILS	BY Dale Kubochi	CHECKED T. Campbell
QUANTITIES	BY A. Frank	CHECKED T. Campbell

LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
LAYOUT	BY Dale Kubochi
SPECIFICATIONS	BY Vaikunthan Renganathan

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

**ROUTE 10 BRIDGES
GENERAL PLAN NO. 2**

USERNAME => s124428 DATE PLOTTED => 06-MAR-2014 TIME PLOTTED => 06:37

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	10	R110.4/R152.4	13	16

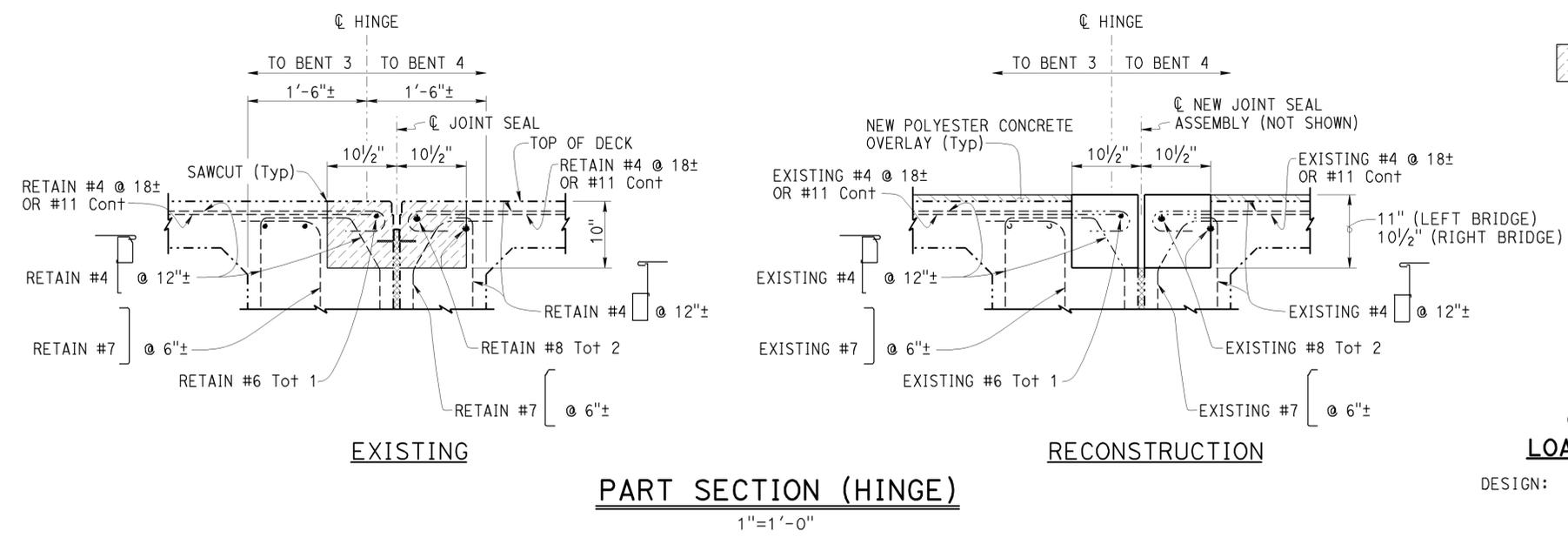
12-30-13
 REGISTERED CIVIL ENGINEER DATE
 3-10-14
 PLANS APPROVAL DATE
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

NOTES: THIS SHEET ONLY.

Indicates limits of Bridge removal (portion) and remove existing joint seal. Reconstruct new concrete and new joint seal assembly.

Details shown for Bridge No. 56-0593L/R.

For new joint seal details, see "JOINT SEAL ASSEMBLY (MAXIMUM MOVEMENT RATING = 4")" sheet.



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 shall not exceed $s/12$ (s = span of plate).
Maximum anchor bolt spacing = 9".

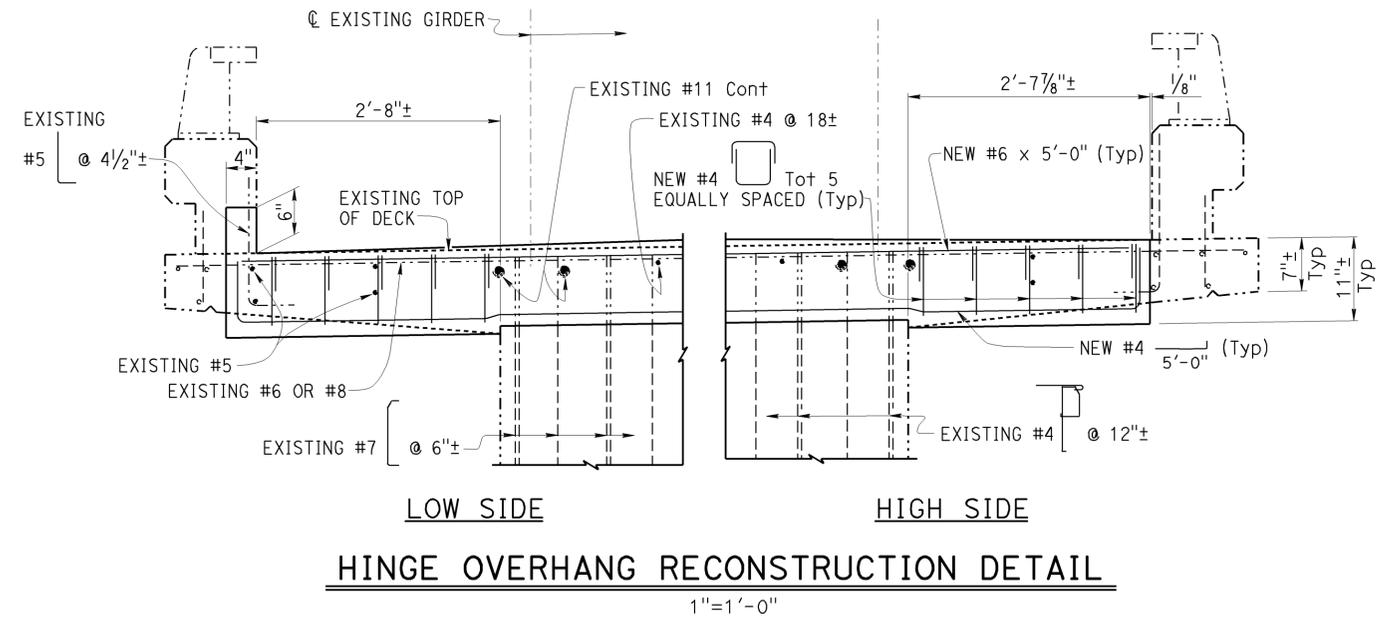
GENERAL NOTES
LOAD FACTOR DESIGN

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

DEAD LOAD: Includes 35 psf for future wearing surface.

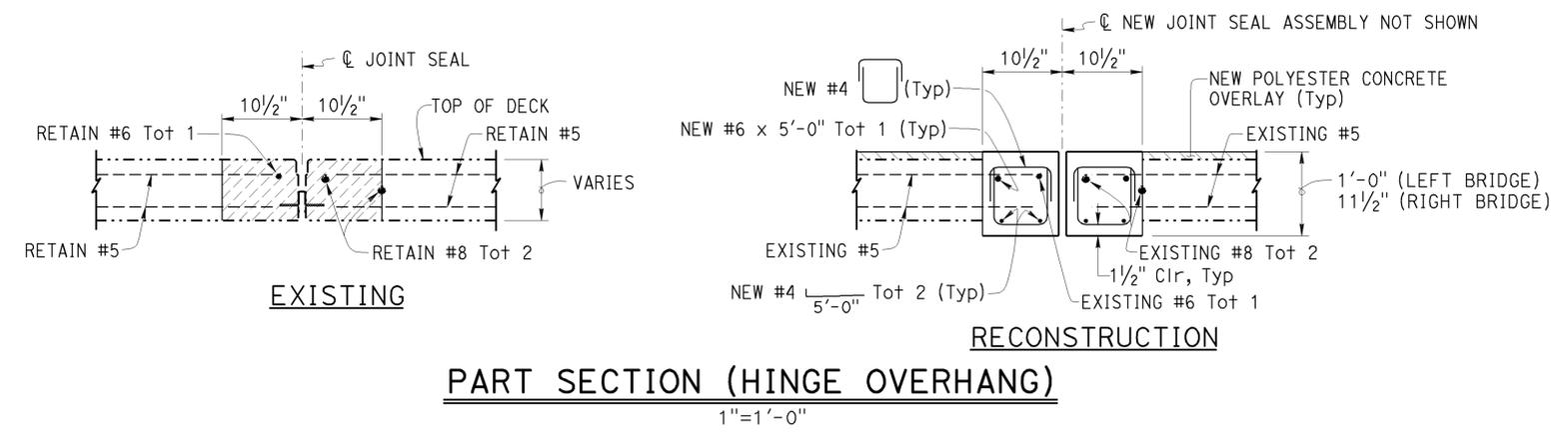
LIVE LOADING: HS20-44 and alternative.

REINFORCED CONCRETE: $f_y = 60$ ksi
 $f'_c = 3.6$ ksi
 $n = 8$



JOINT SEAL TABLE							
BRIDGE NAME	BRIDGE NUMBER	LOCATION		MINIMUM "MR" (INCHES)	APPROXIMATE LENGTH (FEET)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXP JOINT (INCHES)
BLYTHE OVERHEAD	56-0593L	Hinge near Bent 4	H	3/2	40.5	YES	26
	56-0593R	Hinge near Bent 4	H	3/2	46.9	YES	26

LEGEND:
H - Hinge Joint



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

DESIGN	BY A. Frank	CHECKED T. Campbell
DETAILS	BY Dale Kubochi	CHECKED T. Campbell
QUANTITIES	BY A. Frank	CHECKED T. Campbell

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
POST MILE VARIOUS

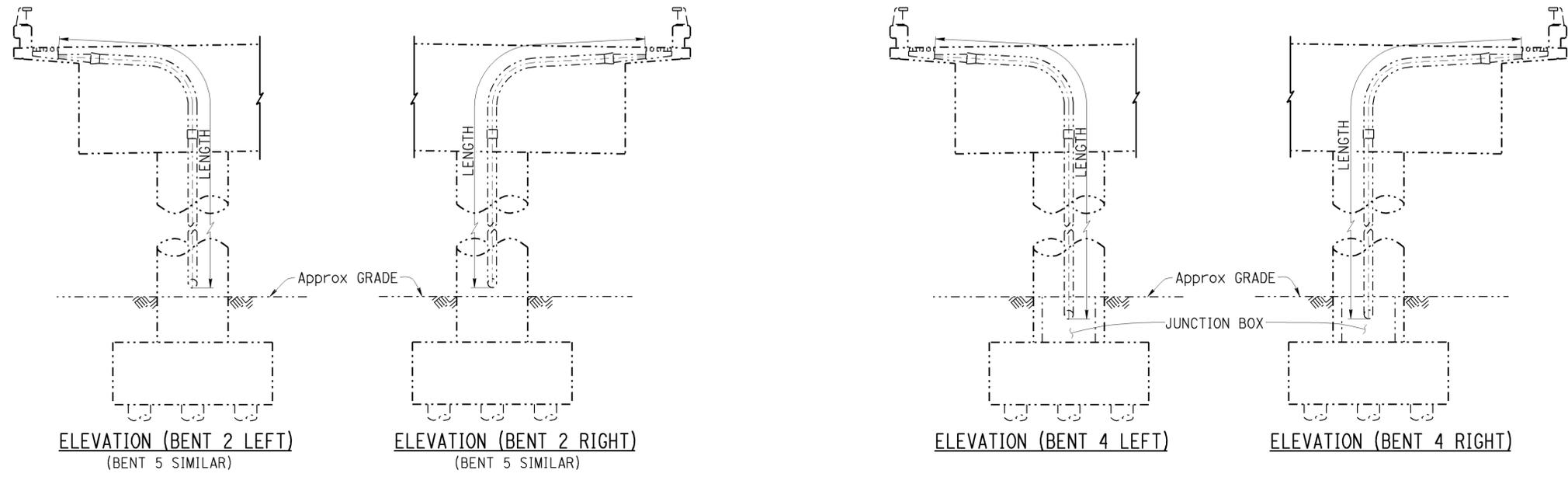
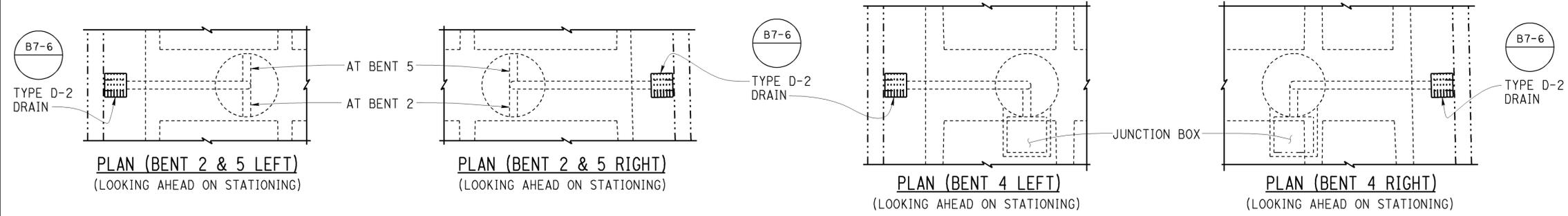
ROUTE 10 BRIDGES
JOINT SEAL DETAILS

REVISION DATES	SHEET	OF
3-30-13 10-1-13 3-3-14	3	6

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	10	R110.4/R152.4	14	16

Arlene Frank 12-30-13
 REGISTERED CIVIL ENGINEER DATE
 3-10-14
 PLANS APPROVAL DATE

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

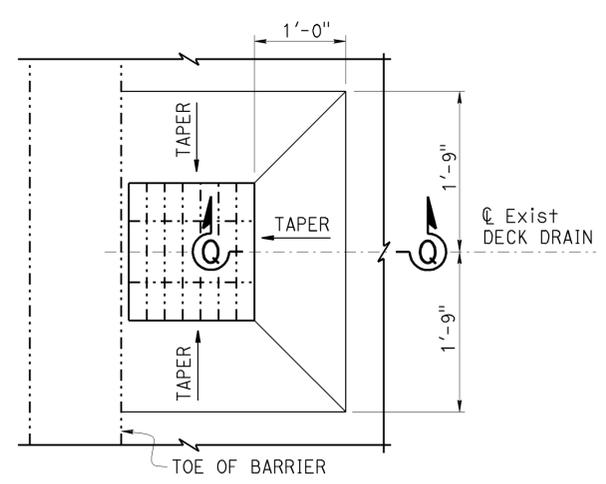


CLEAN DRAINAGE TABLE	
LOCATION	APPROXIMATE LENGTH (Ft)
BENT 2 LEFT	38.7
BENT 2 RIGHT	39.6
BENT 4 LEFT	39.5
BENT 4 RIGHT	39.7
BENT 5 LEFT	39.6
BENT 5 RIGHT	40.6

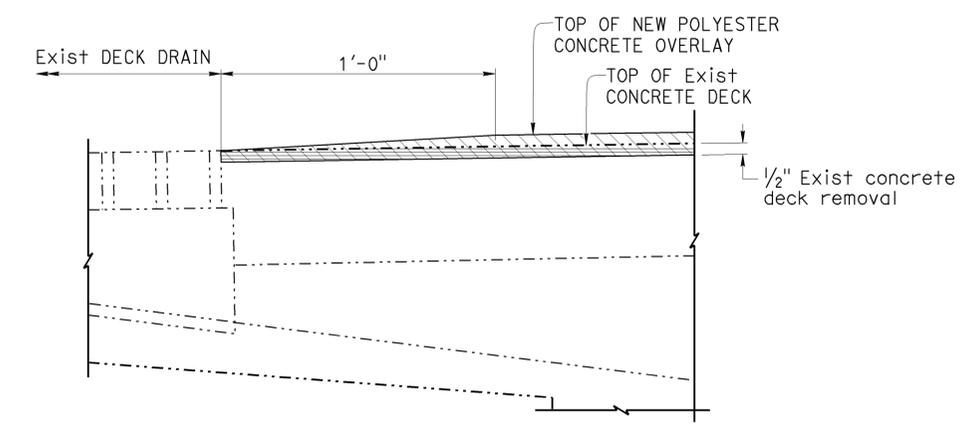
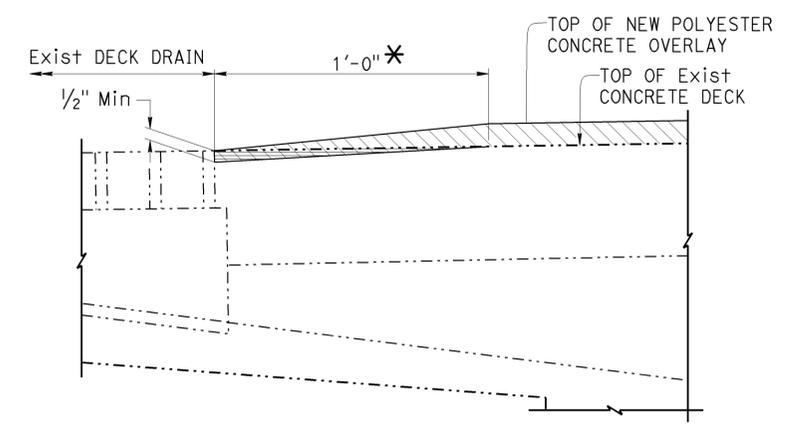
DRAINAGE DETAILS
1/4" = 1'-0"

NOTES: (APPLY TO THIS SHEET ONLY)

- Indicates limits of prepare concrete bridge deck surface, furnish and place new 1" minimum depth polyester concrete overlay. Prior to placing new polyester concrete overlay, remove unsound concrete and patch with rapid setting concrete as shown on the "Deck Repair Detail - Overlay" on "MISCELLANEOUS DETAILS NO. 2" sheet.
- Indicates limits of remove existing concrete deck surface.
- * - Remove concrete deck surface around existing deck drain. Typ



- NOTES:
- Detail shown for polyester overlay taper around existing deck drains. (Typ)
 - Left bridge shown, right bridge similar.



SECTION Q-Q
3" = 1'-0"

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

DESIGN BY A. Frank	CHECKED T. Campbell	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO. VARIOUS	ROUTE 10 BRIDGES MISCELLANEOUS DETAILS NO. 1
DETAILS BY Dale Kubochi	CHECKED T. Campbell		POST MILE VARIES	
QUANTITIES BY A. Frank	CHECKED T. Campbell			

STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 09-01-10) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 UNIT: 3488 PROJECT NUMBER & PHASE: 0813000075 CONTRACT NO.: 08-1C8901 DISREGARD PRINTS BEARING EARLIER REVISION DATES

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	10	R110.4/R152.4	15	16
			12-30-13		
			REGISTERED CIVIL ENGINEER		
			3-10-14		
			PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					

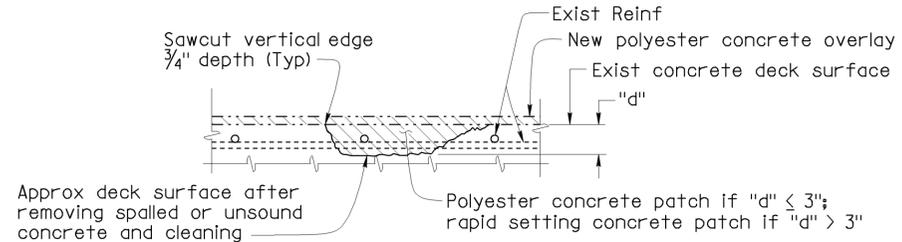
NOTES: (APPLY TO THIS SHEET ONLY)

 Indicates limits of prepare concrete bridge deck surface, furnish and place new polyester concrete overlay. Prior to placing new polyester concrete overlay, remove unsound concrete and patch with rapid setting concrete as shown on the "Deck Repair Detail - Overlay" on "MISCELLANEOUS DETAILS NO. 2" sheet.

 Indicates limits of remove existing concrete surface.

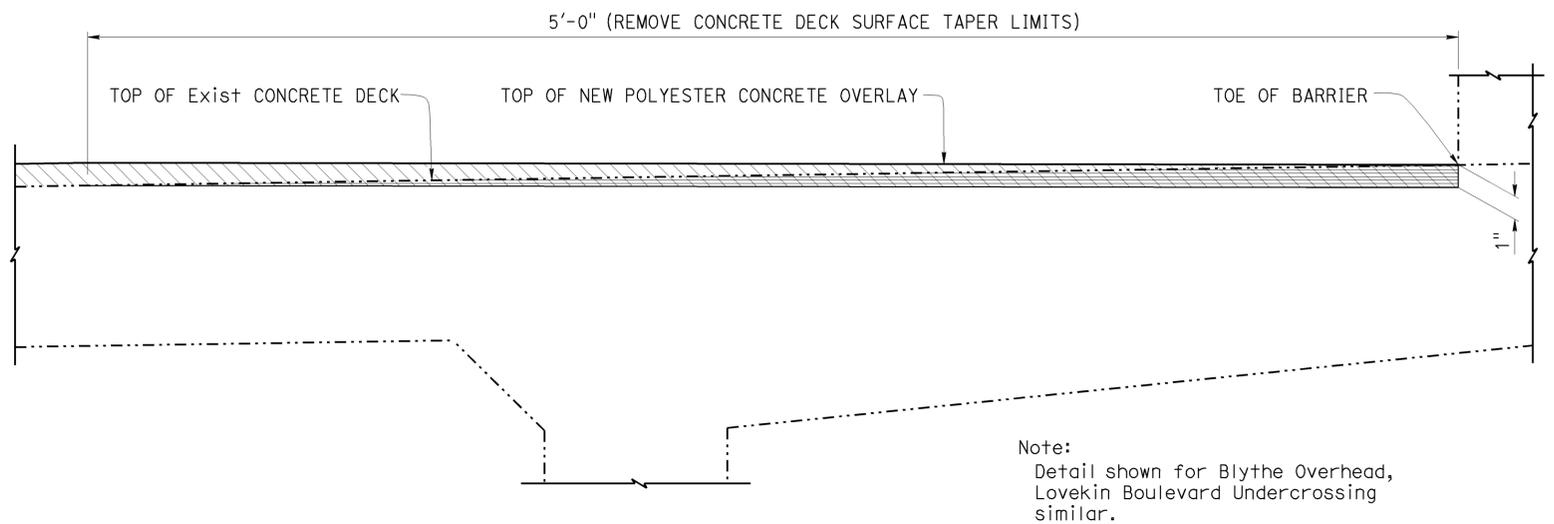
DECK REPAIR TABLE REMOVE UNSOUND CONCRETE AND RAPID SETTING CONCRETE (PATCH)			
BRIDGE NAME	BRIDGE NUMBER	APPROXIMATE AREA DAMAGED (PERCENT)	APPROXIMATE DEPTH (INCHES)
LOVEKIN BOULEVARD UNDERCROSSING	56-0592L	1	3
	56-0592R	1	3
BLYTHE OVERHEAD	56-0593L	3	3
	56-0593R	15	3

Locations to be determined by the Engineer.
For details see "Deck Repair Detail - Overlay".



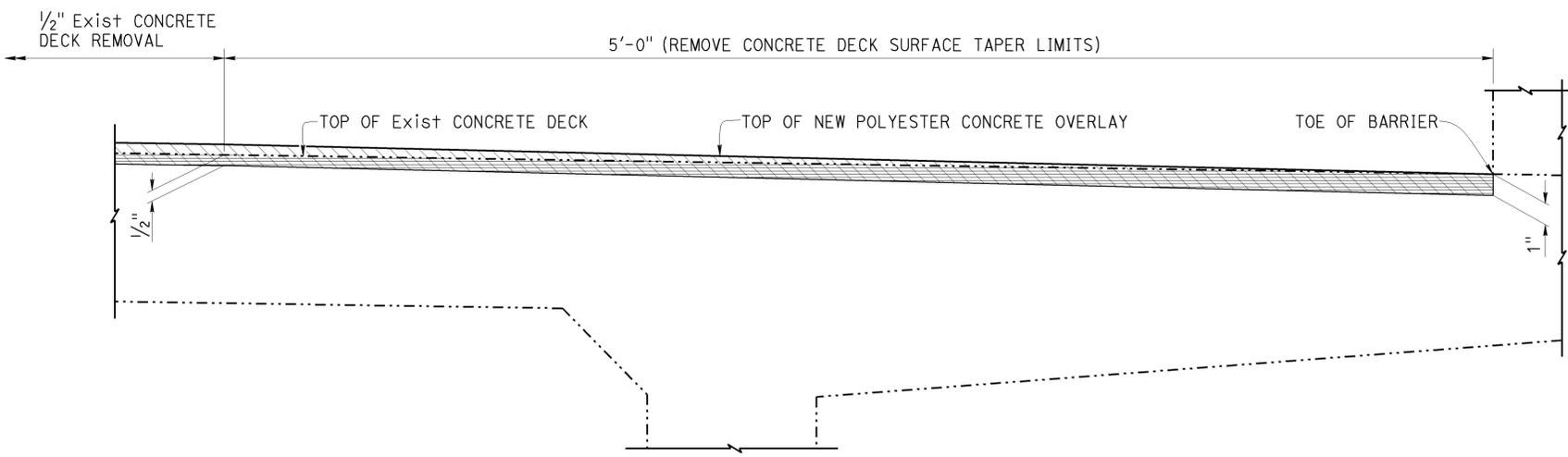
DECK REPAIR DETAIL - OVERLAY

Note: Locations to be determined by the Engineer.
Reinforcement may be encountered during deck concrete removal.
NO SCALE



SECTION R-R
3" = 1'-0"

Note:
Detail shown for Blythe Overhead, Lovekin Boulevard Undercrossing similar.



SECTION S-S
3" = 1'-0"

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

DESIGN	BY A. Frank	CHECKED T. Campbell
DETAILS	BY Dale Kubochi	CHECKED T. Campbell
QUANTITIES	BY A. Frank	CHECKED T. Campbell

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

ROUTE 10 BRIDGES
MISCELLANEOUS DETAILS NO. 2

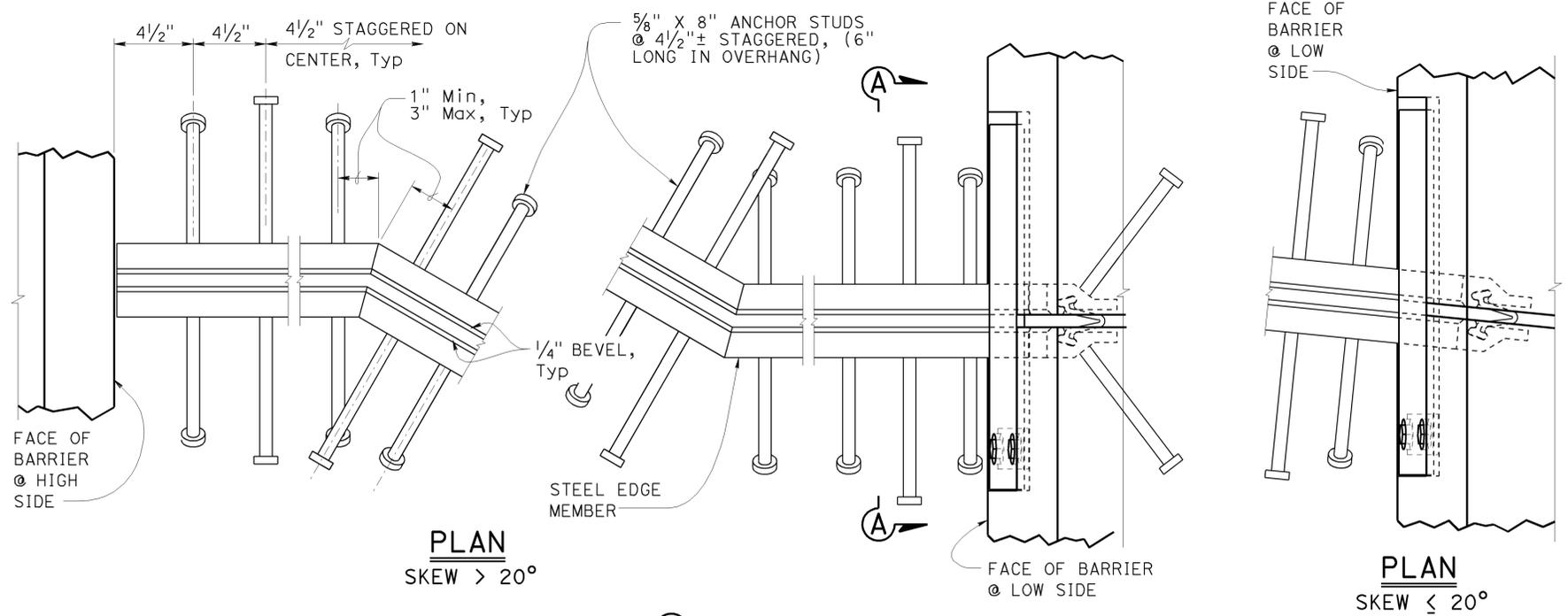
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	10	R110.4/R152.4	16	16

Arlene Frank 12-30-13
 REGISTERED CIVIL ENGINEER DATE

3-10-14
 PLANS APPROVAL DATE

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

REGISTERED PROFESSIONAL ENGINEER
 ARLENE FRANK
 No. C 55562
 Exp. 12-31-14
 CIVIL
 STATE OF CALIFORNIA

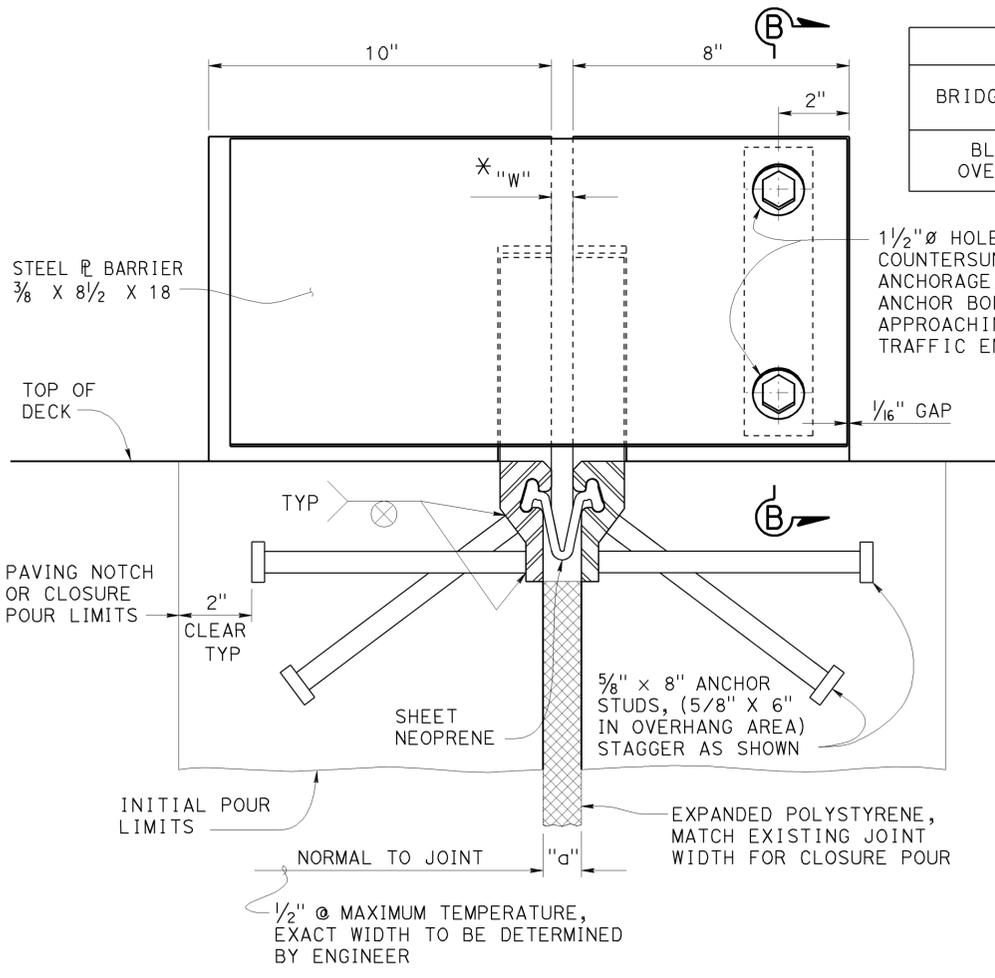


SCHEMATIC STEEL EDGE MEMBER

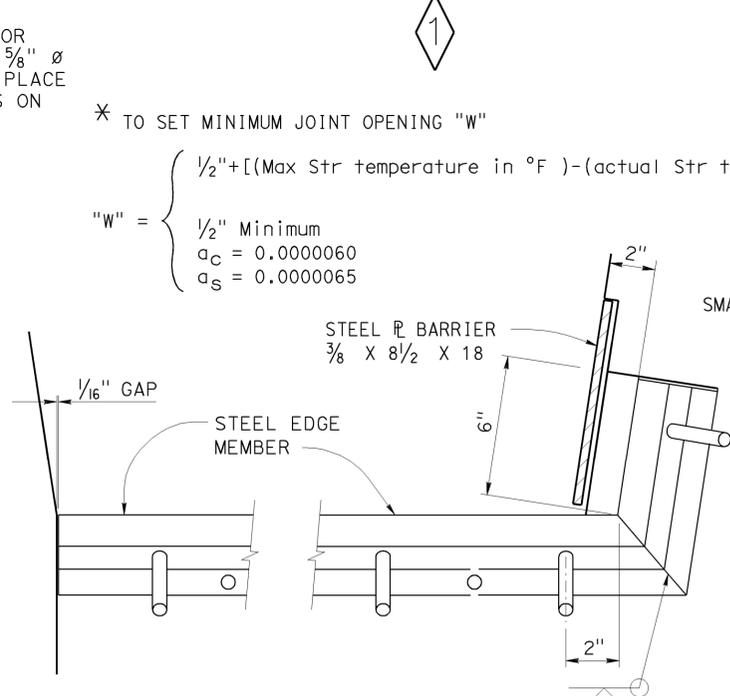
NOTES:

- 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.

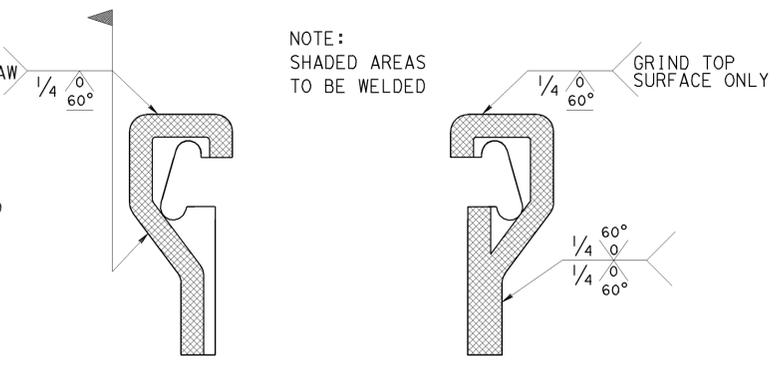
JOINT INFORMATION					"a" DIMENSIONS		
BRIDGE NAME	BRIDGE NUMBER	LOCATION	MOVEMENT RATING (MR)	SKEW	WINTER	SPRING & FALL	SUMMER
BLYTHE OVERHEAD	56-0593L	HINGE	3 1/2"	0°	3"	2 1/4"	3/4"
	56-0593R	HINGE	3 1/2"	0°	3"	2 1/4"	3/4"



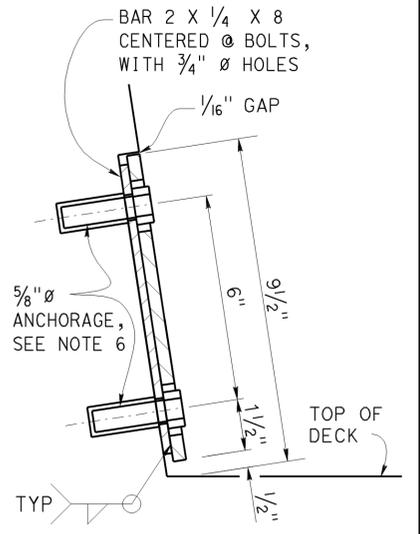
SECTION A-A



BARRIER DETAIL HIGH SIDE
BARRIER DETAIL LOW SIDE



SCHEMATIC FIELD WELD DETAIL
SCHEMATIC SHOP WELD DETAIL



SECTION B-B

SPECIAL DETAILS
NO SCALE

ROUTE 10 BRIDGES

STRIP JOINT SEAL ASSEMBLY

MAXIMUM MOVEMENT RATING = 4"

REVISED STANDARD DRAWING

FILE NO. **xs8-010**

APPROVAL DATE September 2013

MODIFIED TABLE

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

BRIDGE NO. VARIOUS

POST MILE VARIES

UNIT: 3488

PROJECT NUMBER & PHASE: 0813000075

CONTRACT NO.: 08-1C8901

REVISION DATES	SHEET	OF
2/21/12	6	6