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24-38 ROUTE 118, 210, 405 BRIDGES

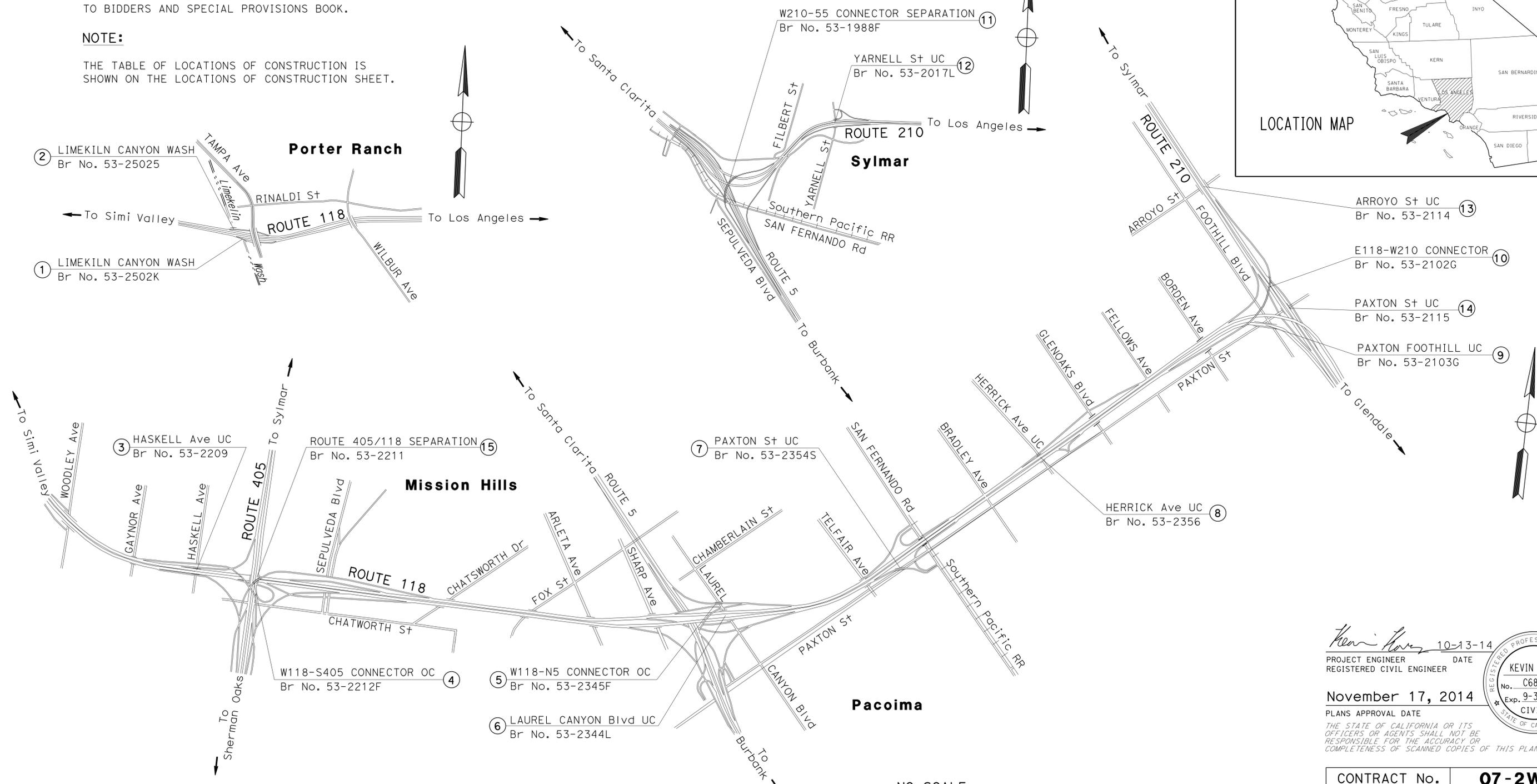
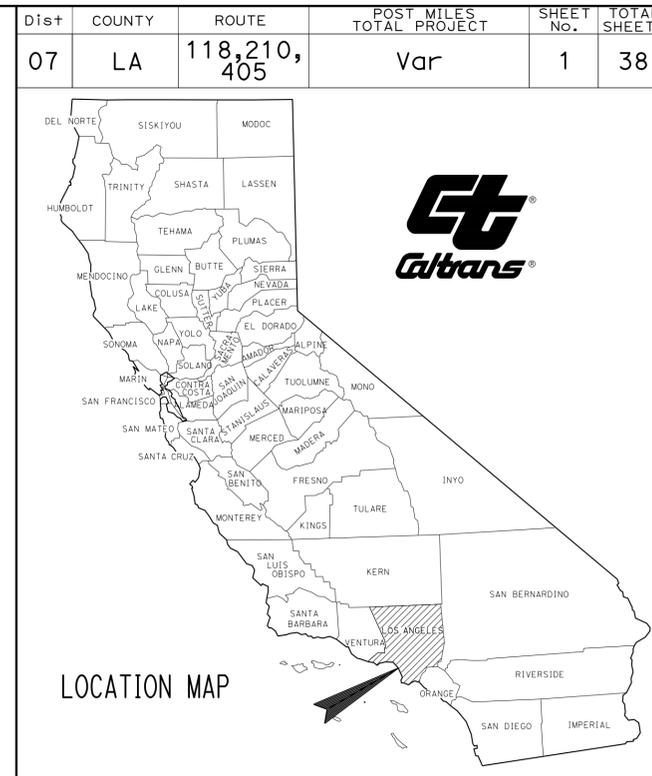
THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

NOTE:

THE TABLE OF LOCATIONS OF CONSTRUCTION IS SHOWN ON THE LOCATIONS OF CONSTRUCTION SHEET.

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

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010



PROJECT MANAGER
CHRISTIAN SAM

DESIGN MANAGER
HAMID SAADATNEJADI

Kevin Kwan 10-13-14
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

November 17, 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.



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

NO SCALE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	118,210,405	Var	2	38

Kevin Kwan 10-13-14
 REGISTERED CIVIL ENGINEER DATE

11-17-14
 PLANS APPROVAL DATE

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING
 FUNCTIONAL SUPERVISOR
 HAMID SAADATNEJADI
 CALCULATED/DESIGNED BY
 CHECKED BY
 DINESH BHAVSAR
 KEVIN KWAN
 REVISED BY
 DATE REVISED

LOCATIONS OF CONSTRUCTION				
Loc No. (X)	ROUTE	PM	BRIDGE No.	BRIDGE NAME
1	118	R4.54	53-2502K	LIMEKILN CANYON WASH
2	118	R4.60	53-2502S	LIMEKILN CANYON WASH
3	118	R9.57	53-2209	HASKELL AVENUE UC
4	118	R9.83	53-2212F	W118-S405 CONNECTOR OC
5	118	R11.56	53-2345F	W118-N5 CONNECTOR OC
6	118	R11.57	53-2344L	LAUREL CANYON BOULEVARD UC
7	118	R12.27	53-2354S	PAXTON STREET UC
8	118	R12.94	53-2356	HERRICK AVENUE UC
9	118	R13.89	53-2103G	PAXTON-FOOTHILL UC
10	118	R13.94	53 2102G	E118-W210 CONNECTOR
11	210	R0.12	53-1988F	W210-S5 CONNECTOR SEPARATION
12	210	R0.84	53-2017L	YARNELL STREET UC
13	210	R5.46	53-2114	ARROYO STREET UC
14	210	R6.01	53-2115	PAXTON STREET UC
15	405	46.83	53-2211	ROUTE 405/118 SEPARATION

LOCATIONS OF CONSTRUCTION

LC-1

LAST REVISION | DATE PLOTTED => 04-NOV-2014
 11-17-14 | TIME PLOTTED => 22:21

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	118,210,405	Var	3	38

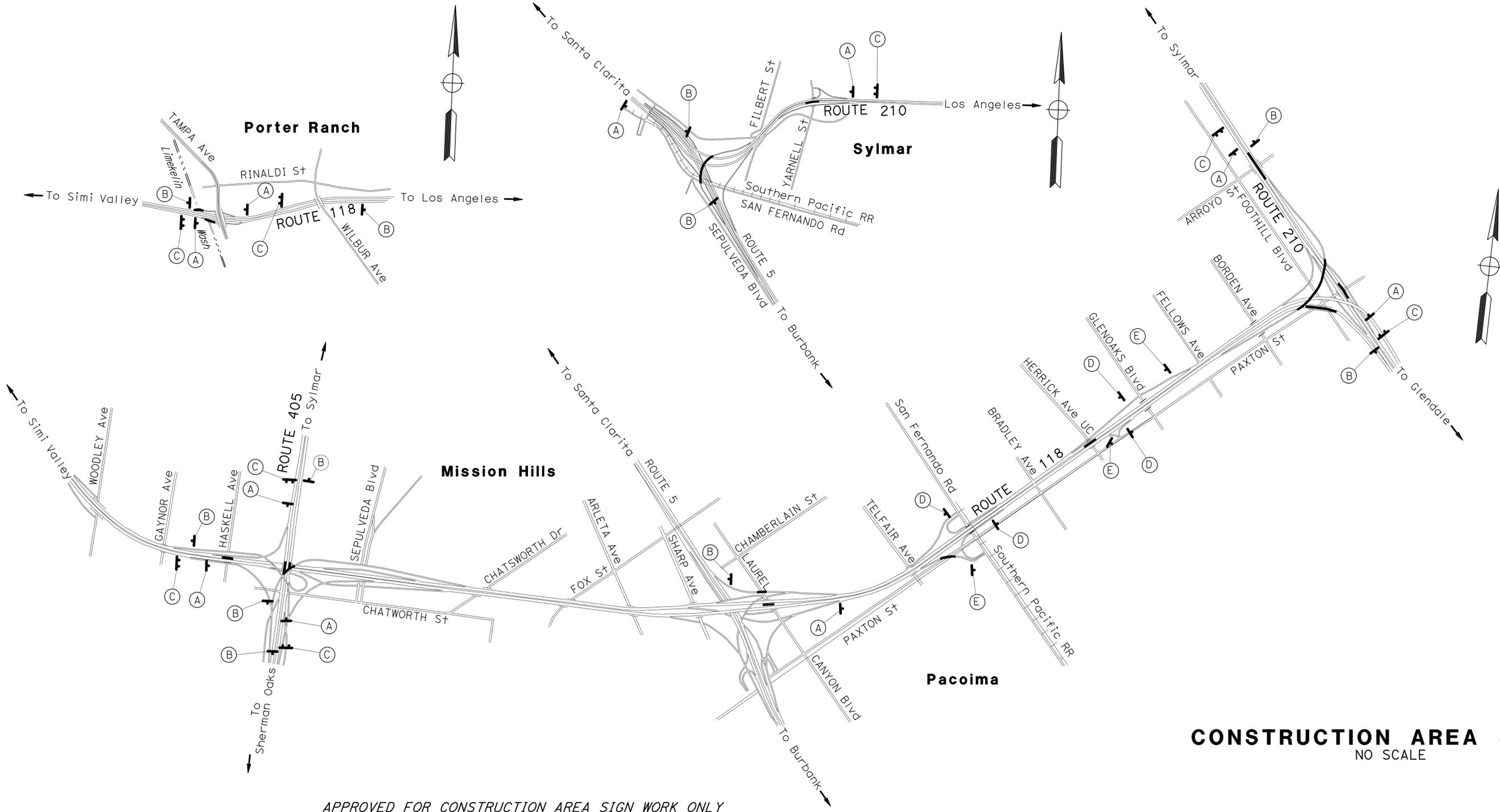
10-13-14
 REGISTERED CIVIL ENGINEER DATE
 11-17-14
 PLANS APPROVAL DATE

KEVIN KWAN
 No. C68219
 Exp. 9-30-15
 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.

NOTE:
EXACT LOCATION AND POSITION OF SIGNS WILL BE DETERMINED BY THE ENGINEER.

SIGN No. (X)	SIGN CODE		PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
	FEDERAL	CALIFORNIA				
A	W20-1		48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	10
B	G20-2		48" x 24"	END ROAD WORK	1 - 4" x 6"	11
C		C40(CA)	144" x 60"	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	2 - 6" x 8"	8
D	W20-1		36" x 36"	ROAD WORK AHEAD	1 - 4" x 4"	4
E	G20-2		36" x 18"	END ROAD WORK	1 - 4" x 4"	3



CONSTRUCTION AREA SIGNS
NO SCALE

CS-1

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING
 FUNCTIONAL SUPERVISOR: HAMID SAADATNEJADI
 CHECKED BY: KEVIN KWAN
 DESIGNED BY: DINESH BHAVSAR
 REVISIONS: REVISED BY: DATE REVISIONS:

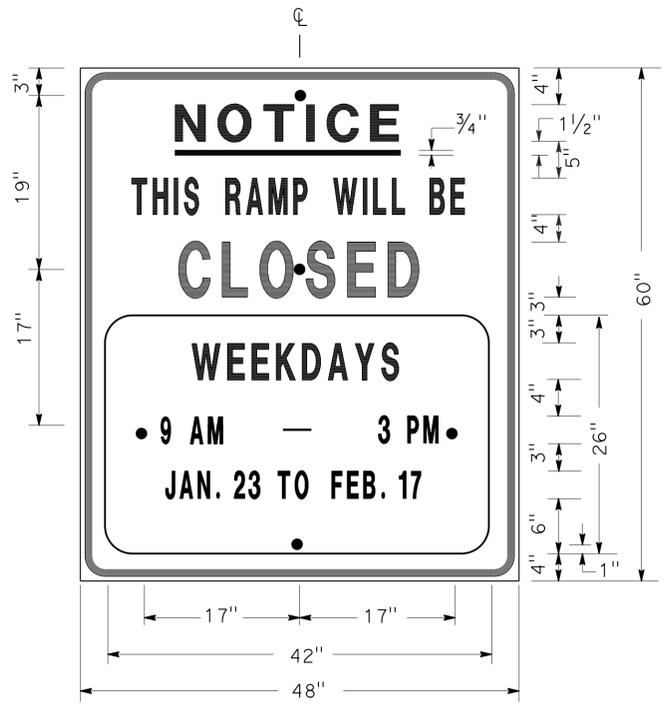
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	118,210, 405	Var	4	38

REGISTERED CIVIL ENGINEER: SHANGJIA HORN
 No. 51846
 Exp. 6-30-16
 CIVIL
 STATE OF CALIFORNIA

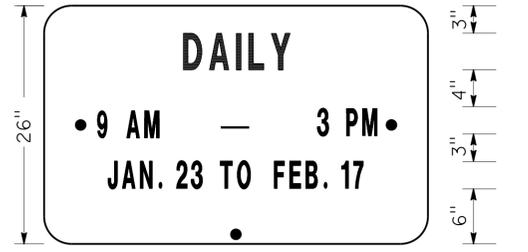
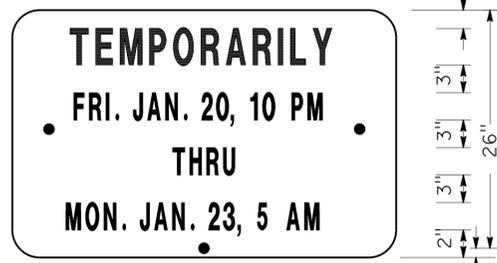
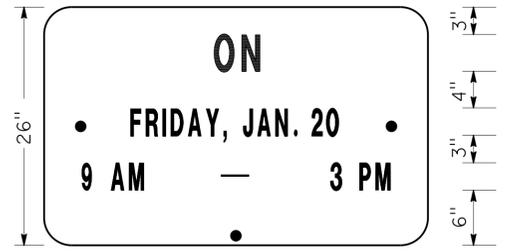
5-5-14
 REGISTERED CIVIL ENGINEER DATE

11-17-14
 PLANS APPROVAL DATE

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SIGN SP-1



ALTERNATE OVERLAY PANELS (TYPICAL)

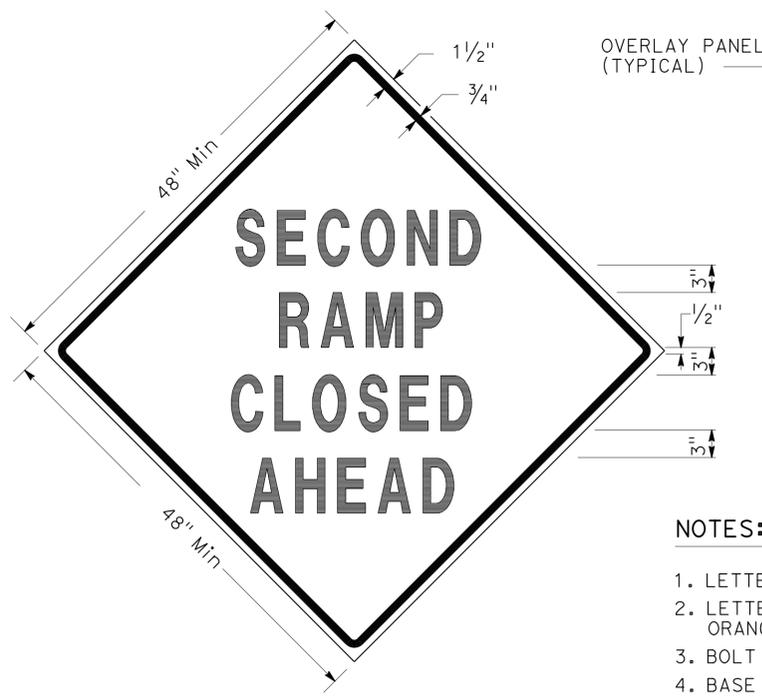
NOTES: SIGN SP-1

- LETTERS AND BORDER MUST BE BLACK ON REFLECTORIZED ORANGE BACKGROUND.
- BOLT HOLES MUST BE 3/8" DIAMETER.
- BASE MATERIAL MUST BE ALUMINUM (MINIMUM 0.06").
- SIGNS MUST BE MOUNTED WITH BOTTOMS OF SIGNS A MINIMUM OF 7' ABOVE GROUND.

SIZE	BORDER WIDTH	MARGIN WIDTH	LETTER SIZE					CORNER RADIUS
			LINE 1	LINE 2*	LINE 3	LINE 4	LINE 5, 6, & 7*	
48"x60"	1/4"	3/4"	4E	4D	6E	4D		3"
42"x26"	OVERLAY						3D	1/2"

* CONDENSED SPACING IF NECESSARY

SPECIAL ADVANCE NOTICE PUBLICITY SIGN



SIGN SP-3



SIGN SP-5

NOTES: SIGNS SP-3 & SP-5

- LETTERS - 6" SERIES D.
- LETTERS AND BORDER MUST BE BLACK ON REFLECTORIZED ORANGE BACKGROUND.
- BOLT HOLES MUST BE 3/8" DIAMETER.
- BASE MATERIAL MUST BE ALUMINUM (MINIMUM 0.06").
- SIGNS MUST BE MOUNTED WITH BOTTOMS OF SIGNS A MINIMUM OF 7' ABOVE GROUND.
- SIGN SP-5 MUST BE USED IF THE OFF-RAMP TO BE CLOSED FOLLOWS A FREEWAY OFF-CONNECTOR.

SPECIAL SIGNS FOR EXIT RAMP CLOSURES



SIGN SP-4

NOTES: SIGN SP-4

- LETTERS - 6" SERIES C.
- LETTERS AND BORDER MUST BE BLACK ON REFLECTORIZED WHITE BACKGROUND.
- BOLT HOLES MUST BE 3/8" DIAMETER.
- BASE MATERIAL MUST BE ALUMINUM (MINIMUM 0.06").
- SIGNS MUST BE PLACED AT RAMP ENTRANCES IN ADDITION TO SIGNS POSTED IN ACCORDANCE WITH REVISED STANDARD PLAN RSP T14.

SPECIAL SIGN FOR ENTRANCE RAMP CLOSURES

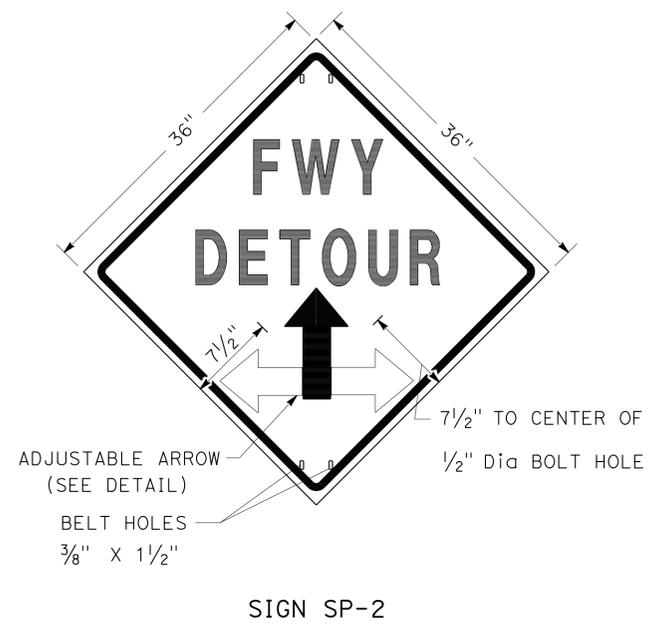
**TRAFFIC HANDLING DETAILS
 TRAFFIC CONTROL SYSTEM
 FOR RAMP CLOSURES, DETOUR SIGNS,
 AND MISCELLANEOUS DETAILS**

SHEET 1 OF 2

NO SCALE

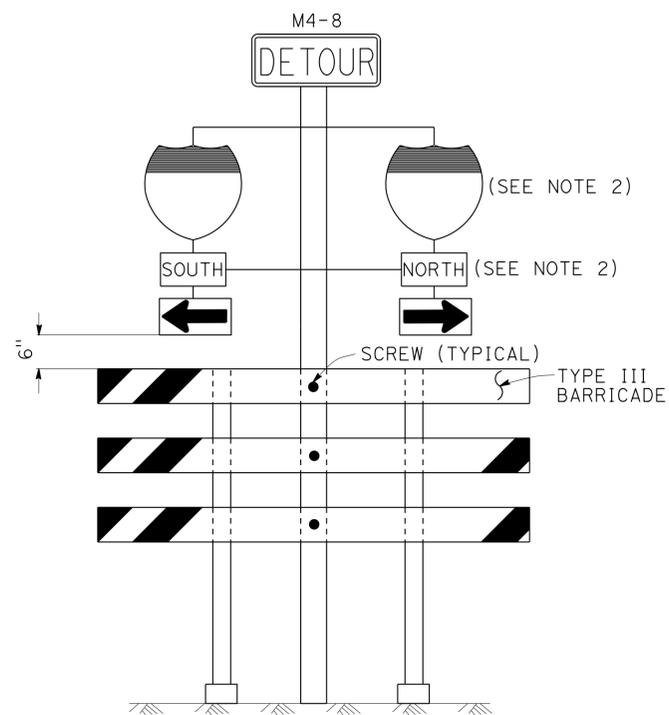
THD-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Caltrans®
 DTM
 FUNCTIONAL SUPERVISOR: ALBERT K YU
 CHECKED BY: ALBERT K YU
 CALCULATED/DESIGNED BY: SHANGJIA HORN
 REVISIONS: JC 2/14
 REVISED BY: DATE REVISED:

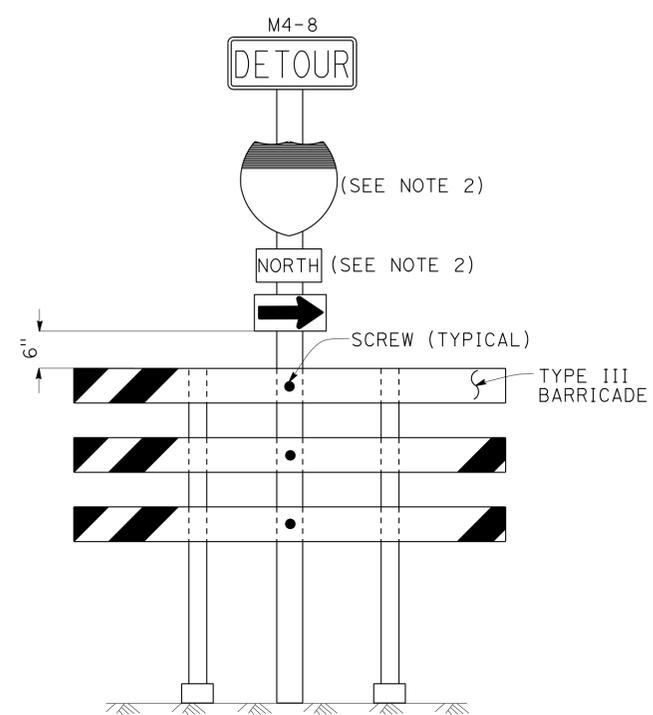


- NOTES:** SIGN SP-2
- LETTERS - 6" SERIES E.
 - LETTERS, BORDER AND ARROW - BLACK ON RETROREFLECTORIZED ORANGE BACKGROUND.
 - BASE MATERIAL FOR SIGNS AND ARROWS MUST BE ALUMINUM (MINIMUM 0.06").
 - BELTS (LUGGAGE STRAPS) MUST BE 1" WIDE BY 48" LONG, MADE OF COTTON OR POLYPROPYLENE WEB MATERIAL.
 - SIGNS MUST BE MOUNTED WITH BOTTOMS OF SIGNS A MINIMUM OF 7' ABOVE GROUND EXCEPT AS OTHERWISE SHOWN ON OTHER TRAFFIC HANDLING DETAILS PLANS.

ABBREVIATION
(CA) CALIFORNIA CODE



SIGN SP-6 (SEE NOTE 1)

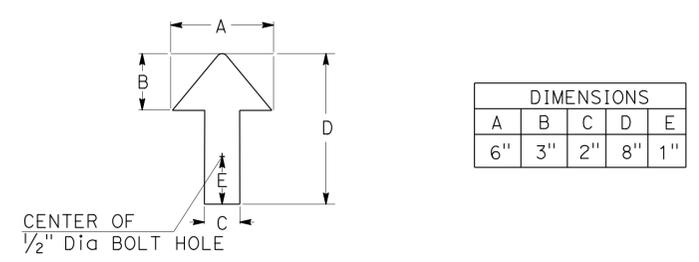


SIGN SP-7 (SEE NOTE 1)

NOTES: SIGNS SP-6 & SP-7

- IN LIEU OF PLACING SIGNS ON TYPE III BARRICADES, SIGNS, INCLUDING POSTS, MAY BE PLACED INTO THE GROUND OR FASTENED ONTO ELECTROLIERS.
- USE APPROPRIATE ROUTE MARKER [G26-2(CA), G27-2(CA), G28-2(CA)] AND CARDINAL DIRECTION [NORTH (M3-1), SOUTH (M3-3), EAST (M3-2), WEST (M3-4)].

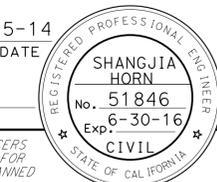
SPECIAL PORTABLE FREEWAY DETOUR SIGNS



ADJUSTABLE ARROW DETAIL

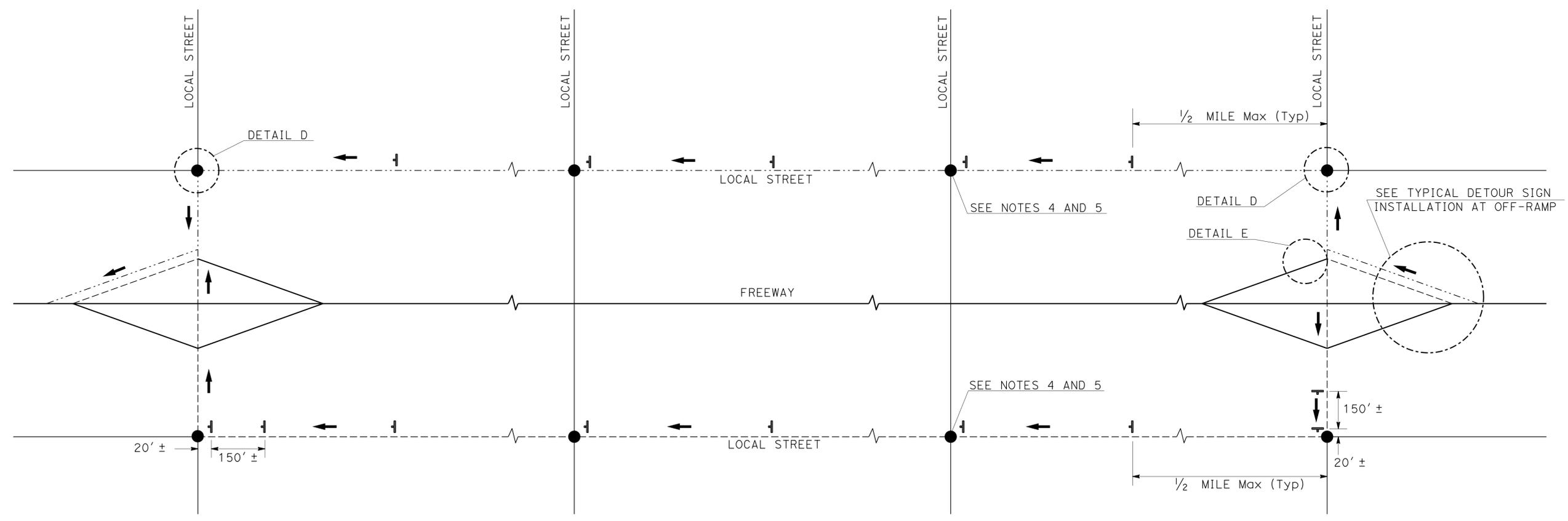
TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM
FOR RAMP CLOSURES, DETOUR SIGNS,
AND MISCELLANEOUS DETAILS
SHEET 2 OF 2
 NO SCALE

THD-2

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	118,210, 405	Var	6	38
			5-5-14		
REGISTERED CIVIL ENGINEER			DATE		
11-17-14			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**
-  SIGN SP-2
 -  AND/OR DESIGNATED DETOUR ROUTE
 -  DETOUR DIRECTION
 -  CONTROLLED INTERSECTION

- NOTES:**
- SP-2 SIGNS MAY BE STRAPPED ON EXISTING ELECTROLIER, SIGNAL POST OR SIGN POST.
 - SP-2 SIGNS MUST NOT BE INSTALLED ON BARRICADES EXCEPT AS OTHERWISE SHOWN.
 - SIGN LOCATIONS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
 - SP-2 SIGNS MUST BE POSTED AT EACH CONTROLLED INTERSECTION (EXCEPT AT COMMERCIAL PROPERTY, RESIDENTIAL COMPLEX OR T-INTERSECTION FROM ONE-WAY STREET) ALONG THE DESIGNATED DETOUR ROUTE.
 - UNLESS OTHERWISE SHOWN ON OTHER THD PLANS, WHEN CONTROLLED INTERSECTIONS ALONG THE DESIGNATED DETOUR ROUTE ARE CLOSELY SPACED, PLACE SP-2 SIGNS AT CONTROLLED INTERSECTIONS AT A DISTANCE NOT TO EXCEED 1/4 MILE FROM THE PRECEDING DETOUR SIGN.
 - EXCEPT AS OTHERWISE SHOWN ON OTHER PLANS OR SPECIFIED IN THE SPECIAL PROVISIONS, SP-2 SIGNS MUST BE PLACED AS SHOWN ON THIS PLAN.



TYPICAL DETOUR SIGN INSTALLATION ALONG DESIGNATED DETOUR ROUTE

**TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM
FOR DETOUR SIGN INSTALLATION
ALONG DESIGNATED DETOUR ROUTE
SHEET 1 OF 3**

NO SCALE

THD-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

 DT M
 FUNCTIONAL SUPERVISOR: ALBERT K YU
 CALCULATED/DESIGNED BY: SHANGJIA HORN
 CHECKED BY: ALBERT K YU
 REVISED BY: JC
 DATE REVISED: 2/14

x
x
x
x
x
x

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	118,210, 405	Var	8	38

 REGISTERED CIVIL ENGINEER DATE 5-5-14		
PLANS APPROVAL DATE 11-17-14		
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>		

NOTES:

- LANE CLOSURES MUST NOT BE PLACED ON CREST VERTICAL CURVES OR ON HORIZONTAL CURVES.
- PCMS MUST BE ACTIVATED PRIOR TO TRAFFIC CONTROL ACTIVITIES ON THE LANE.
- A MINIMUM SIGHT DISTANCE OF 1500' MUST BE PROVIDED IN ADVANCE OF PCMS.
- VEHICLE-MOUNTED SIGN PANELS MUST BE TYPE III OR IV RETROREFLECTORIZED SHEETING, BLACK ON WHITE OR BLACK ON ORANGE WITH 8" MINIMUM SERIES D LETTERS PER CALTRANS SIGN SPECIFICATIONS.

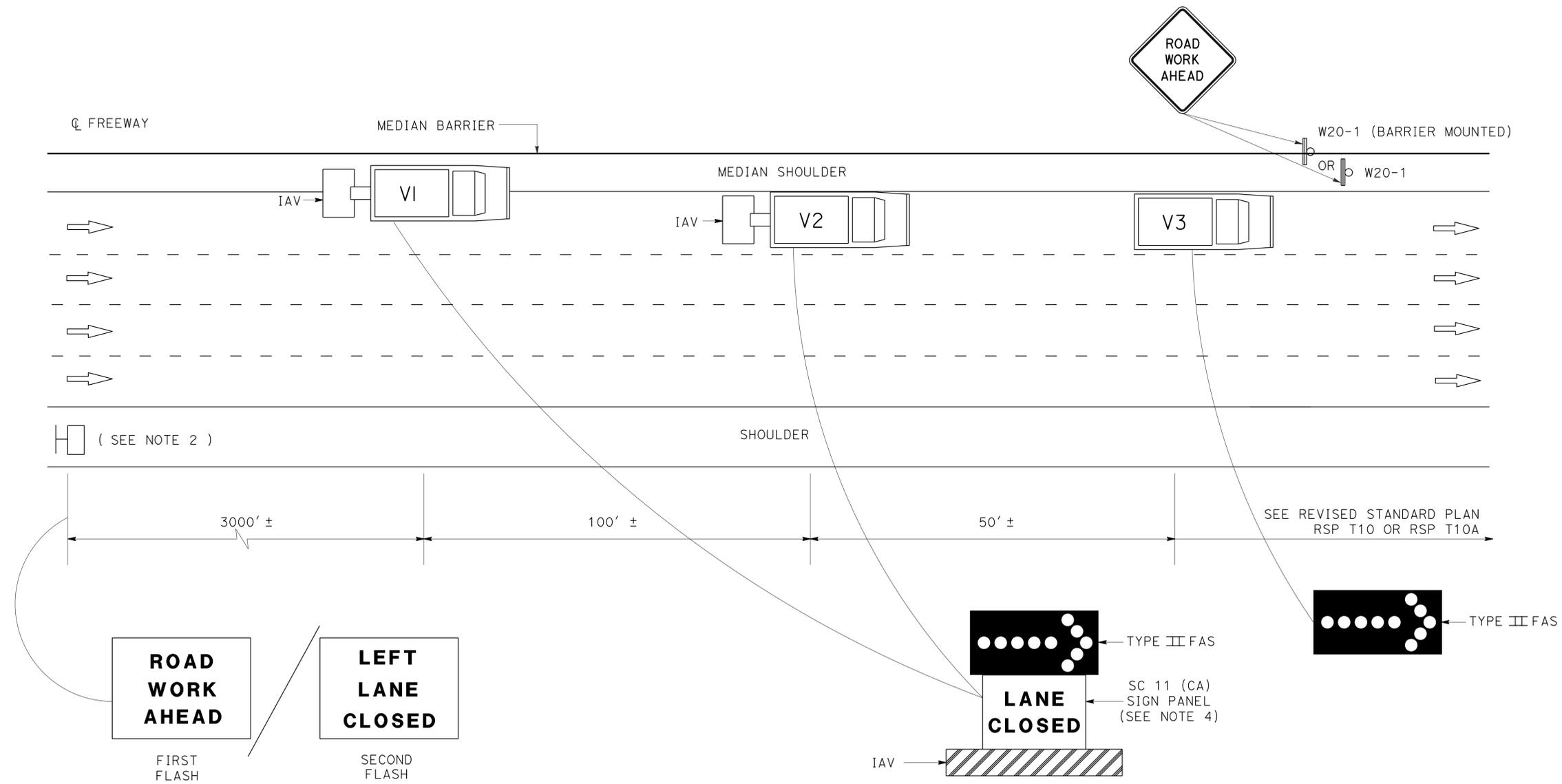
LEGEND

- V1, V2 SHADOW VEHICLES
- V3 WORK/APPLICATION VEHICLE
-  PCMS
-  TEMPORARY TRAFFIC CONTROL SIGN
-  FLASHING ARROW SIGN (FAS)

ABBREVIATIONS

- IAV IMPACT ATTENUATOR VEHICLE
- (CA) CALIFORNIA CODE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 DTMT
 FUNCTIONAL SUPERVISOR ALBERT K YU
 CHECKED BY ALBERT K YU
 SHANGJIA HORN
 REVISED BY ALBERT K YU
 DATE REVISED 2/14
 JC



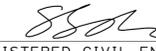
PCMS OR TRUCK MOUNTED CMS MESSAGE

**TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM
FOR MEDIAN SHOULDERS LESS THAN 8 FEET**

NO SCALE

THD-5

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	118,210, 405	Var	9	38

		5-5-14
REGISTERED CIVIL ENGINEER	DATE	
11-17-14 PLANS APPROVAL DATE		

REGISTERED PROFESSIONAL ENGINEER SHANGJIA HORN No. 51846 Exp. 6-30-16 CIVIL STATE OF CALIFORNIA
--

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NOTES:

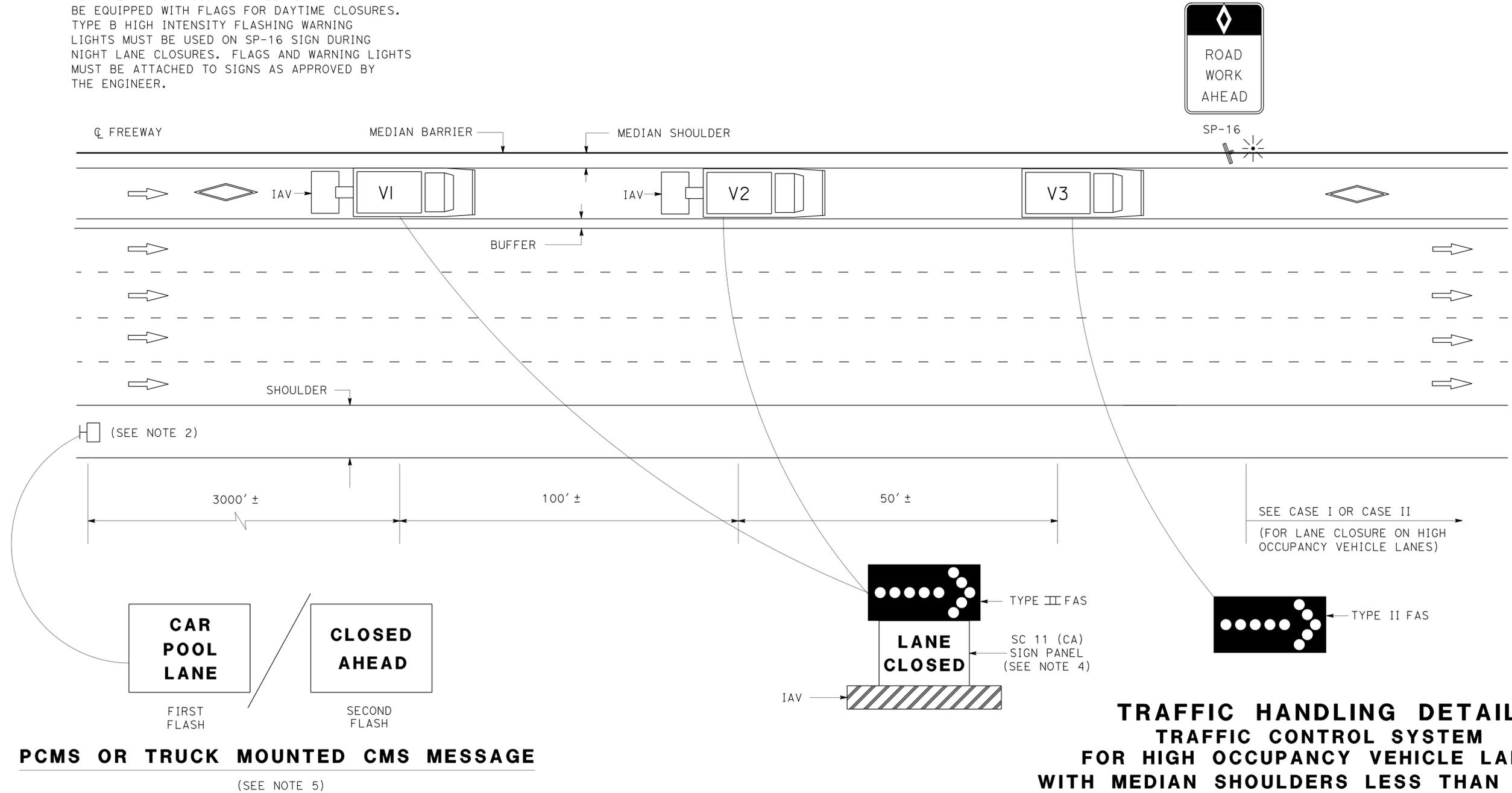
- LANE CLOSURES MUST NOT BE PLACED ON CREST VERTICAL CURVES OR ON HORIZONTAL CURVES.
- PCMS MUST BE ACTIVATED PRIOR TO TRAFFIC CONTROL ACTIVITIES ON THE HOV LANE.
- A MINIMUM SIGHT DISTANCE OF 1500' MUST BE PROVIDED IN ADVANCE OF PCMS.
- VEHICLE-MOUNTED SIGN PANELS MUST BE TYPE III OR IV RETROREFLECTORIZED SHEETING, BLACK ON WHITE OR BLACK ON ORANGE WITH 8" MINIMUM SERIES D LETTERS PER CALTRANS SIGN SPECIFICATIONS.
- PLACE PCMS ON THE MEDIAN SHOULDER WHERE SUFFICIENT ROOM (SUCH AS CHP ENFORCEMENT AREAS) EXISTS.
- ADVANCE WARNING SIGN INSTALLATIONS MUST BE EQUIPPED WITH FLAGS FOR DAYTIME CLOSURES. TYPE B HIGH INTENSITY FLASHING WARNING LIGHTS MUST BE USED ON SP-16 SIGN DURING NIGHT LANE CLOSURES. FLAGS AND WARNING LIGHTS MUST BE ATTACHED TO SIGNS AS APPROVED BY THE ENGINEER.

LEGEND

- V1, V2 SHADOW VEHICLES
- V3 WORK/APPLICATION VEHICLE
-  PCMS
-  PORTABLE FLASHING BEACON
-  TEMPORARY TRAFFIC CONTROL SIGN
-  FLASHING ARROW SIGN (FAS)

ABBREVIATIONS

- IAV IMPACT ATTENUATOR VEHICLE
- (CA) CALIFORNIA CODE
- CHP CALIFORNIA HIGHWAY PATROL



**TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM
FOR HIGH OCCUPANCY VEHICLE LANES
WITH MEDIAN SHOULDERS LESS THAN 8 FEET**

NO SCALE

PCMS OR TRUCK MOUNTED CMS MESSAGE

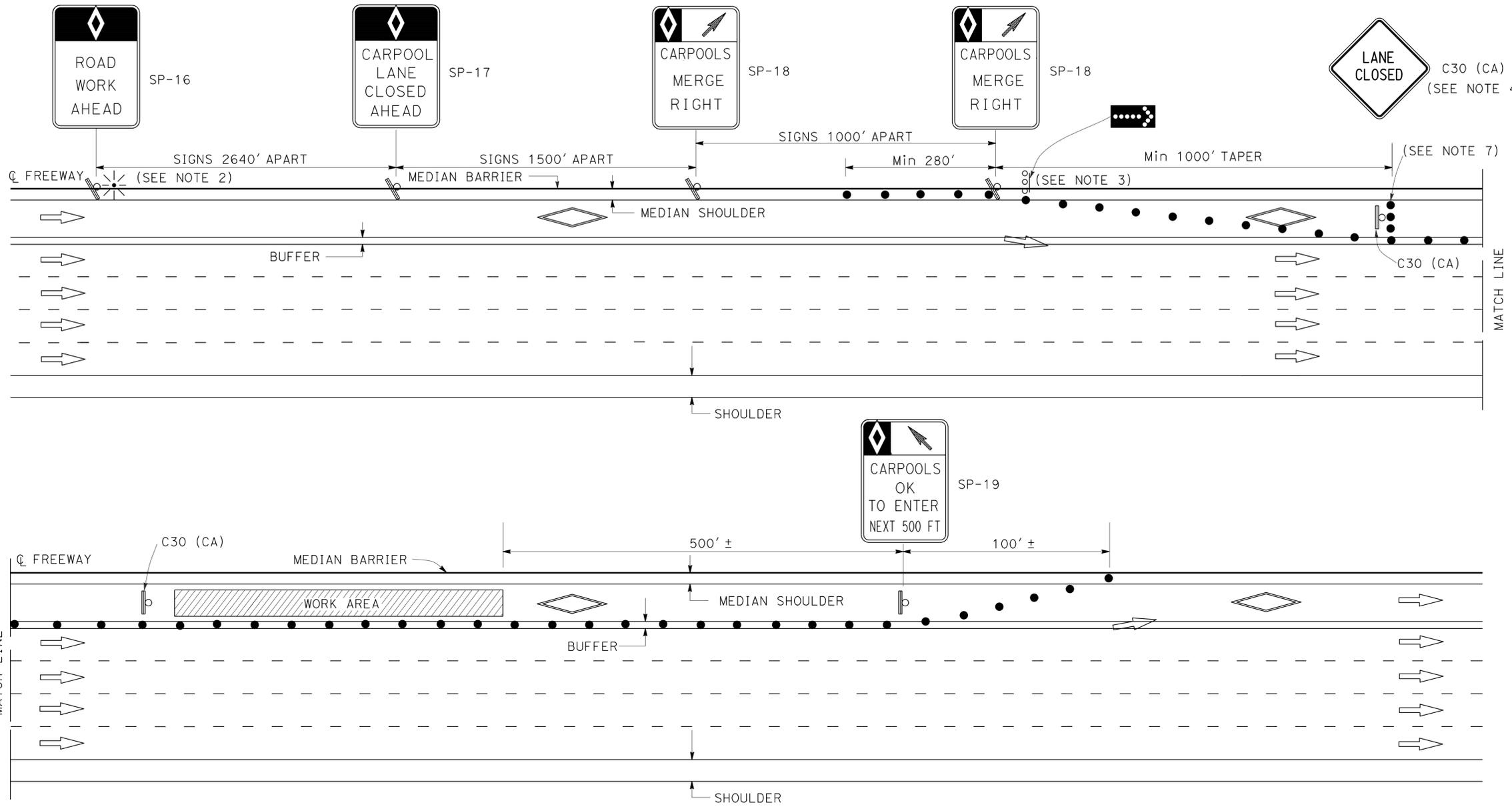
(SEE NOTE 5)

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 DTMT
 SHANGJIA HORN
 ALBERT K YU
 JC
 2/14
 REVISOR BY
 DATE REVISED
 CALCULATED/DESIGNED BY
 CHECKED BY
 FUNCTIONAL SUPERVISOR
 ALBERT K YU

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	118,210, 405	Var	10	38

5-5-14
 REGISTERED CIVIL ENGINEER DATE
 11-17-14
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER
 SHANGJIA HORN
 No. 51846
 Exp. 6-30-16
 CIVIL
 STATE OF CALIFORNIA



- LEGEND**
- TRAFFIC CONE
 - ☼ PORTABLE FLASHING BEACON
 - ⏏ TEMPORARY TRAFFIC CONTROL SIGN
 - ⦿ FLASHING ARROW SIGN (FAS)
 - ⦿ FAS SUPPORT OR TRAILER

ABBREVIATIONS

(CA) CALIFORNIA CODE

SIGN PANEL

SIZE (MIN)

SP-16	36" X 54"
SP-17	36" X 54"
SP-18	36" X 48"
SP-19	36" X 60"
C30 (CA)	30" X 30"
G20-2	48" X 24"

NOTES: FOR CASE I AND CASE II

1. AT LEAST ONE PERSON MUST BE ASSIGNED TO FULL TIME MAINTENANCE OF TRAFFIC CONTROL DEVICES ON NIGHT LANE CLOSURES OR DAY-TIME CLOSURES EXCEEDING 1 MILE LENGTH, INCLUDING TAPERS.
2. ADVANCE WARNING SIGN INSTALLATIONS MUST BE EQUIPPED WITH FLAGS FOR DAYTIME CLOSURES. TYPE B HIGH INTENSITY FLASHING WARNING LIGHTS MUST BE USED ON SP-16 SIGN DURING NIGHT LANE CLOSURES. FLAGS AND WARNING LIGHTS MUST BE ATTACHED TO SIGNS AS APPROVED BY THE ENGINEER.
3. THE FLASHING ARROW SIGN MUST BE TYPE I.
4. PLACE C30 (CA) SIGNS EVERY 2000' THROUGHOUT THE LENGTH OF LANE CLOSURE.
5. A MINIMUM 1500' OF SIGHT DISTANCE MUST BE PROVIDED WHERE POSSIBLE FOR VEHICLES APPROACHING THE FLASHING ARROW SIGN. LANE CLOSURES MUST NOT BE PLACED ON CREST VERTICAL CURVES OR ON HORIZONTAL CURVES.
6. PORTABLE DELINEATORS PLACED AT ONE-HALF THE SPACING INDICATED FOR TRAFFIC CONES MAY BE USED INSTEAD OF CONES FOR DAYTIME CLOSURES.
7. A MINIMUM OF 3 CONES MUST BE PLACED TRANSVERSELY ACROSS CLOSED LANES WHERE TAPERS END AND EVERY 2000'. TWO TYPE II BARRICADES MAY BE USED INSTEAD OF 3 CONES. THE ALIGNMENT OF CONES OR BARRICADES MAY BE SHIFTED FROM THE TRANSVERSE ALIGNMENT TO PROVIDE ACCESS TO WORK.
8. IF AN INGRESS/EGRESS AREA IS WITHIN 5250' UPSTREAM OR DOWNSTREAM OF THE WORK AREA, LANE CLOSURES MUST BE EXTENDED TO THAT AREA AS SHOWN IN CASE II.
9. SIGNS SP-16, 17, 18, AND 19 MAY BE OVERLAID ON EXISTING CARPOOL SIGNS IN MEDIANS AS APPROVED BY THE ENGINEER.
10. SIGNS SP-16, 17, 18, AND C30 (CA) MUST BE BLACK ON ORANGE BACKGROUND. SIGN SP-19 MUST BE BLACK ON WHITE BACKGROUND. DIAMONDS ON SIGNS MUST BE WHITE.
11. FOR CLOSURE OF LANE(S) ADJACENT TO HOV LANES, SEE CASE II.
12. THE MAXIMUM SPACING BETWEEN CONES MUST BE APPROXIMATELY 50' IN TAPERS AND 100' ON TANGENTS.

TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM
FOR HIGH OCCUPANCY VEHICLE LANES
AT NON-INGRESS/EGRESS AREAS
CASE I
 NO SCALE

THD-7

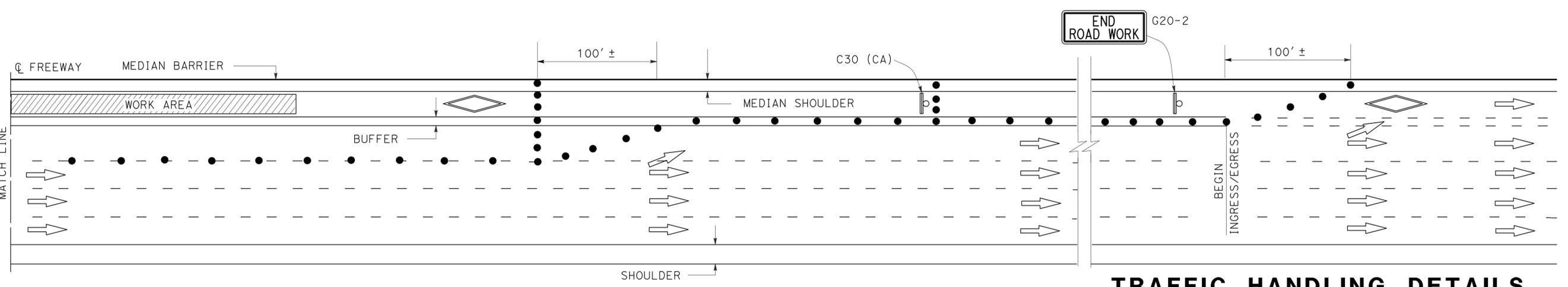
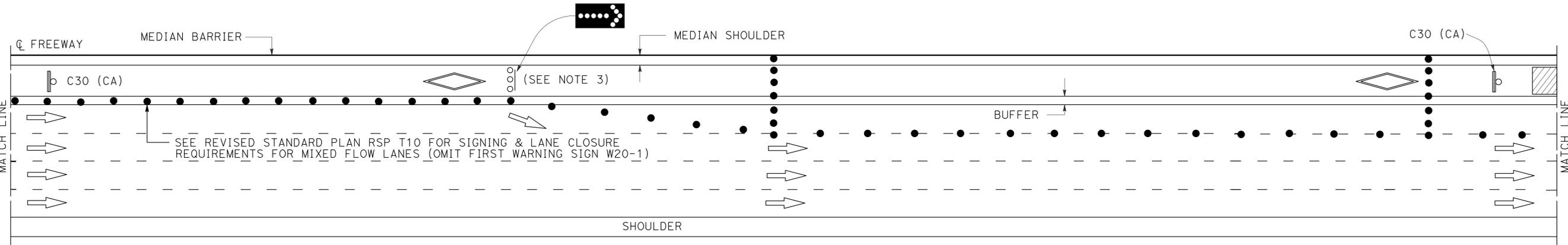
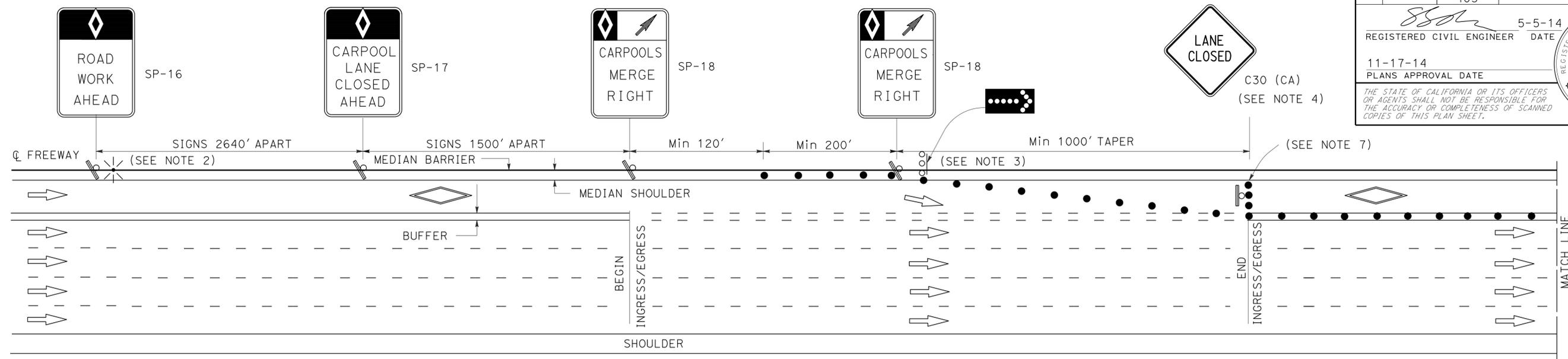
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 DT M
 SHANGJIA HORN
 ALBERT K YU
 ALBERT K YU
 JC
 2/14
 REVISOR BY DATE
 CALCULATED/DESIGNED BY
 CHECKED BY
 FUNCTIONAL SUPERVISOR
 ALBERT K YU

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	118,210, 405	Var	11	38

5-5-14
 REGISTERED CIVIL ENGINEER DATE
 11-17-14
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 SHANGJIA HORN
 No. 51846
 Exp. 6-30-16
 CIVIL
 STATE OF CALIFORNIA

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



NOTES:

- SEE CASE I FOR NOTES, LEGEND, SIGN PANEL, AND ABBREVIATIONS FOR THIS SHEET.
- CLOSURES OF ONE MIXED FLOW TRAFFIC LANE ADJACENT TO HOV LANE SHOWN ON THIS SHEET. MULTIPLE MIXED FLOW LANE CLOSURES ARE SIMILAR.

TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM
FOR HIGH OCCUPANCY
VEHICLE LANES AND ADJACENT FREEWAY LANES
BETWEEN INGRESS/EGRESS AREAS

CASE II
 NO SCALE

THD-8

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 DT M
 SHANGJIA HORN
 ALBERT K YU
 ALBERT K YU
 JC
 2/14
 REVISOR BY DATE
 CALCULATED/DESIGNED BY
 CHECKED BY
 FUNCTIONAL SUPERVISOR
 ALBERT K YU
 DT M

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	118,210, 405	Var	13	38

10-13-14
 REGISTERED CIVIL ENGINEER DATE
 11-17-14
 PLANS APPROVAL DATE

KEVIN KWAN
 No. C68219
 Exp. 9-30-15
 CIVIL

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

PAVEMENT DELINEATION QUANTITIES

Loc No.	ROUTE	POST MILE	BRIDGE No.	DESCRIPTION	REMOVE THERMOPLASTIC TRAFFIC STRIPE				REMOVE PAINTED TRAFFIC STRIPE	REMOVE PAVEMENT MARKER						REMOVE THERMOPLASTIC PAVEMENT MARKING	
					Det 25& 25A	Det 13/14 (Mod)	Det 27B	Det 36& 37		NON-REFLECTIVE	RETROREFLECTIVE					DIAGONAL	WORDS/SYMBOL
											Det 13/14 (Mod)	Det 13/14 (Mod)	Det 25	Det 25A	Det 36		
					LF				EA						SQFT		
7	118	R12.27	53-2354S	PAXTON St UC	386		386		386				25			96	31
8		R12.94	53-2356	HERRICK Ave UC	212	159	106	346		54	27	9		40	8	72	
9		R13.89	53-2103G	PAXTON-FOOTHILL UC	675	169	675		675	56	29	28					
10		R13.94	53-2102G	E118--W210 CONNECTOR	1666	417	1666		1666	140	70	70					
11	210	RO.12	53-1988F	W210-S5 CONNECTOR SEPARATION	184	46	184		184	16	8	8					
13		R5.46	53-2114	ARROYO St UC	222	139	222	111		47	24	10			8		
14		R6.01	53-2115	PAXTON St UC	356	178	356			60	30	15					
SUBTOTAL					3,701	1,108	3,595	457	2,911	373	188	140	25	40	16	168	31
TOTAL					3,701		5,160		2,911			782				199	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING
 FUNCTIONAL SUPERVISOR: HAMID SAADATNEJADI
 CALCULATED/DESIGNED BY: KEVIN KWAN
 CHECKED BY: KEVIN KWAN
 REVISED BY: DINESH BHAVSAR
 DATE REVISED:

PAVEMENT DELINEATION QUANTITIES

PDQ-2

LAST REVISION DATE PLOTTED => 04-NOV-2014
 11-17-14 TIME PLOTTED => 22:21

	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	
P, 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
07	LA	118, 210, 405	Var	14	38

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

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TO ACCOMPANY PLANS DATED 11-17-14

UNIT OF MEASUREMENT SYMBOLS:

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

TABLE A

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

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

TABLE B

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

* For use on a sign panel only

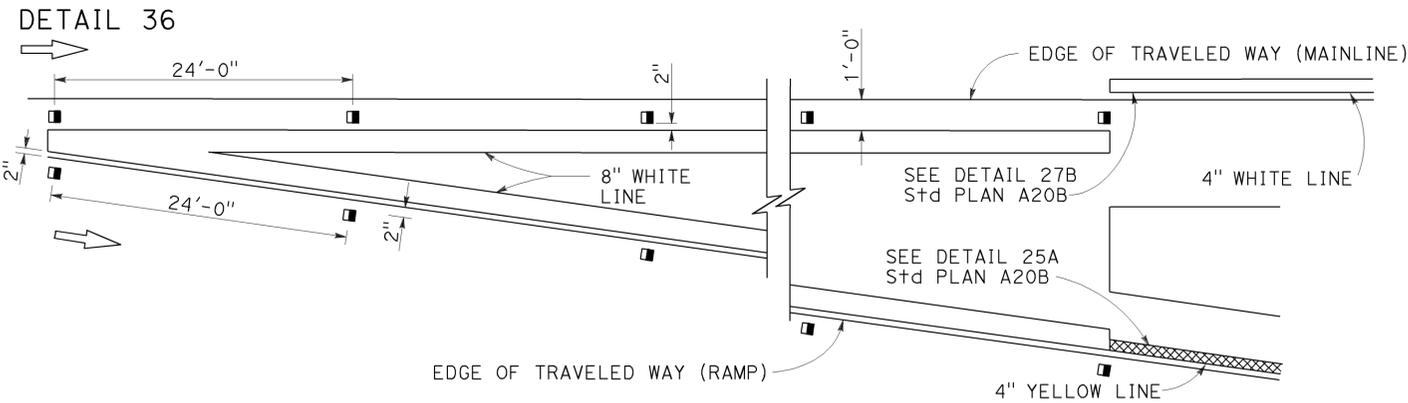
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**ABBREVIATIONS
(SHEET 2 OF 2)**

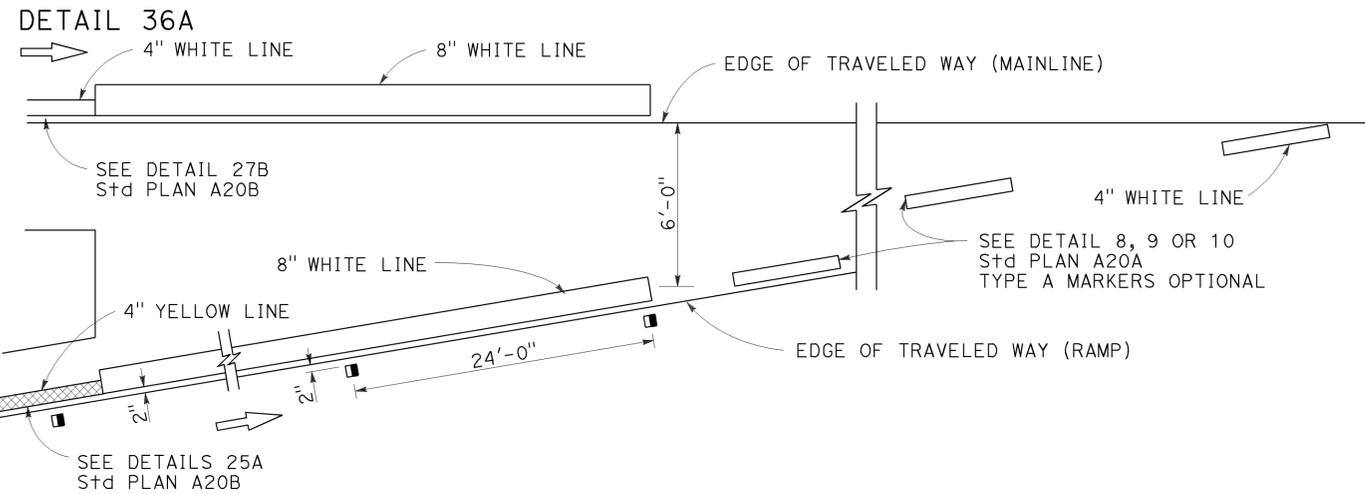
NO SCALE

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

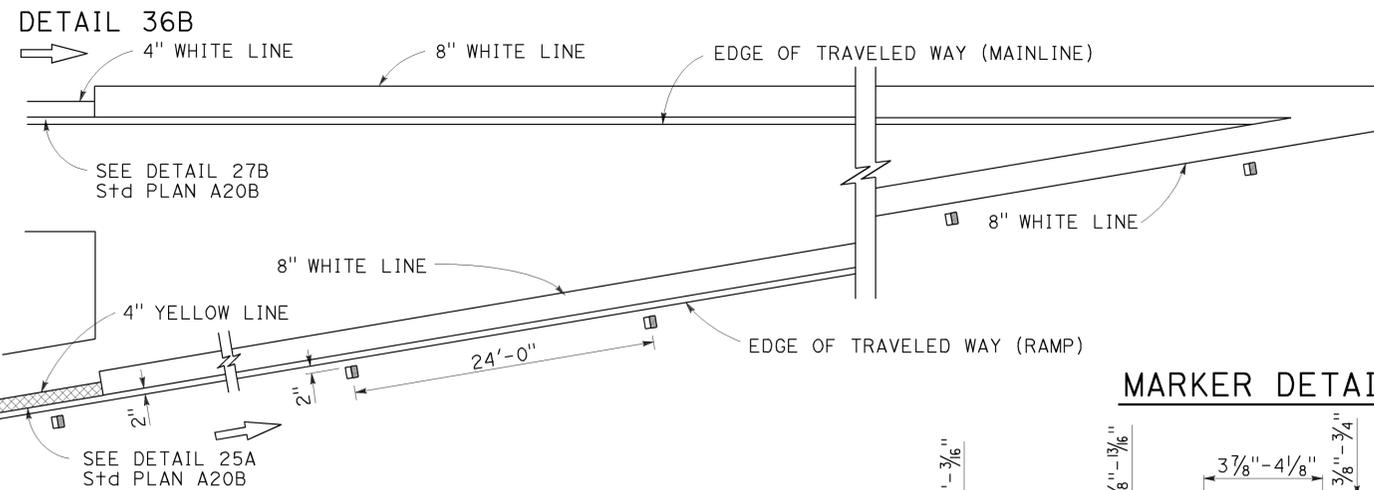
EXIT RAMP NEUTRAL AREA (GORE) TREATMENT



ENTRANCE RAMP NEUTRAL AREA (MERGE) TREATMENT



ENTRANCE RAMP NEUTRAL AREA (ACCELERATION LANE) TREATMENT

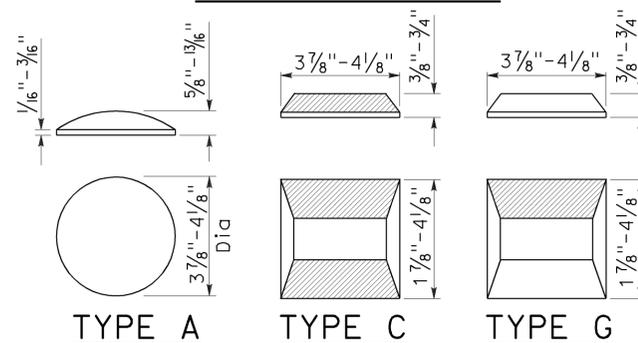


MARKER DETAILS

LEGEND:

MARKERS

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



RETROREFLECTIVE FACE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	118, 210, 405	Var	15	38

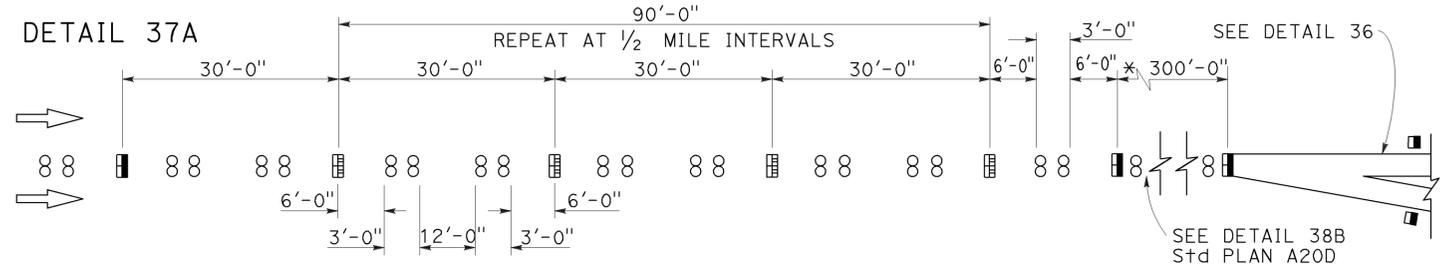
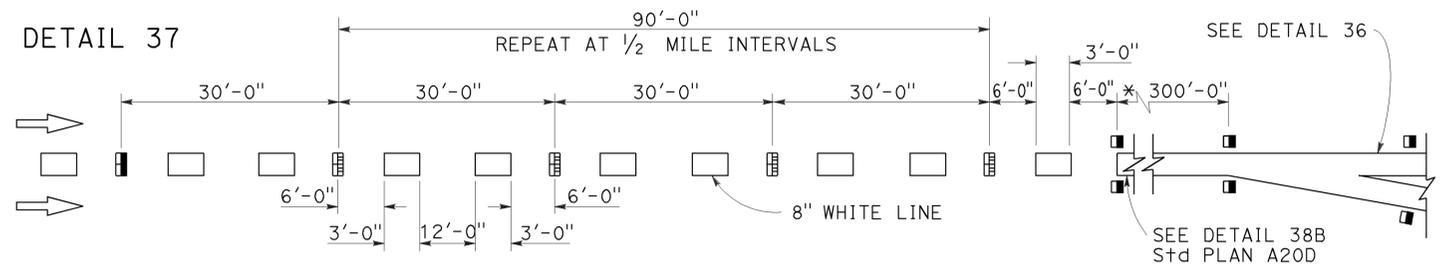
REGISTERED CIVIL ENGINEER
 Roberta L. McLaughlin
 No. C40375
 Exp. 3-31-15
 CIVIL
 STATE OF CALIFORNIA

July 19, 2013
 PLANS APPROVAL DATE

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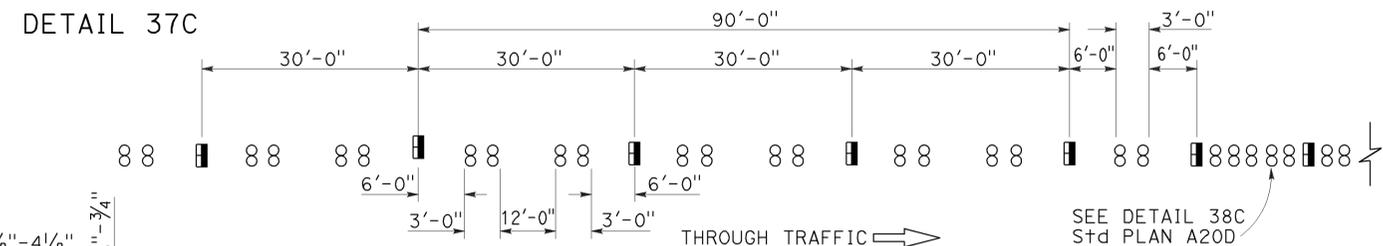
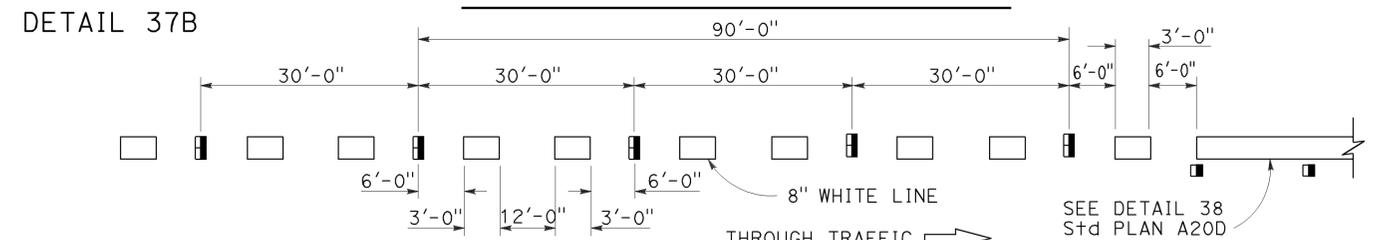
TO ACCOMPANY PLANS DATED 11-17-14

LANE DROP AT EXIT RAMP



* The solid channelizing line shown may be omitted on short auxiliary lanes where weaving length is critical.

LANE DROP AT INTERSECTIONS



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKERS AND TRAFFIC LINE TYPICAL DETAILS

NO SCALE

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

REVISED STANDARD PLAN RSP A20C

2010 REVISED STANDARD PLAN RSP A20C

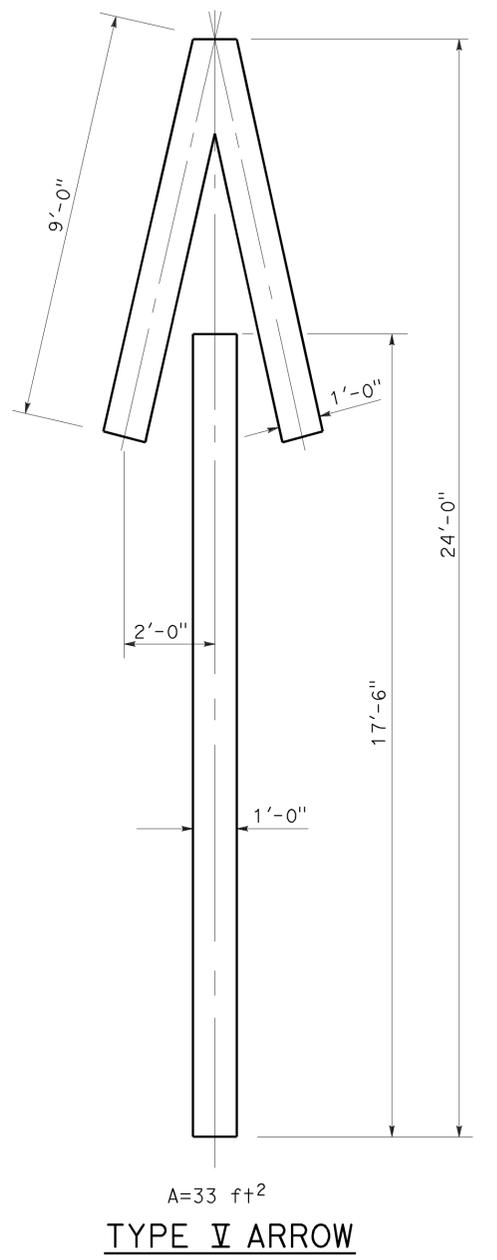
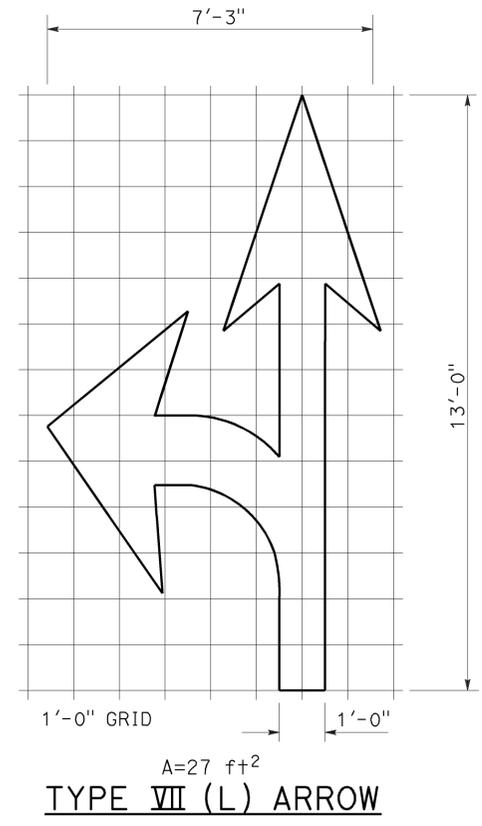
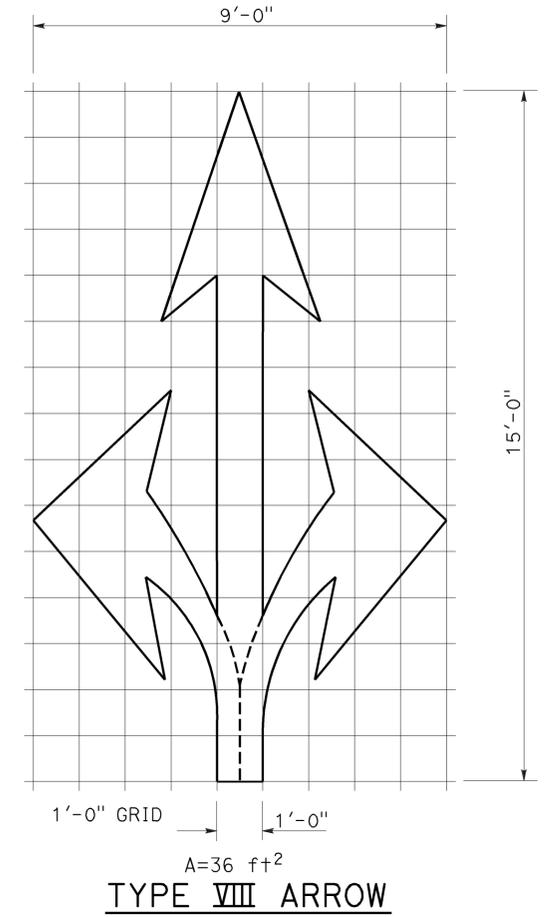
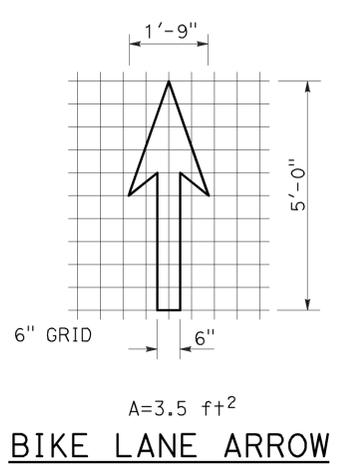
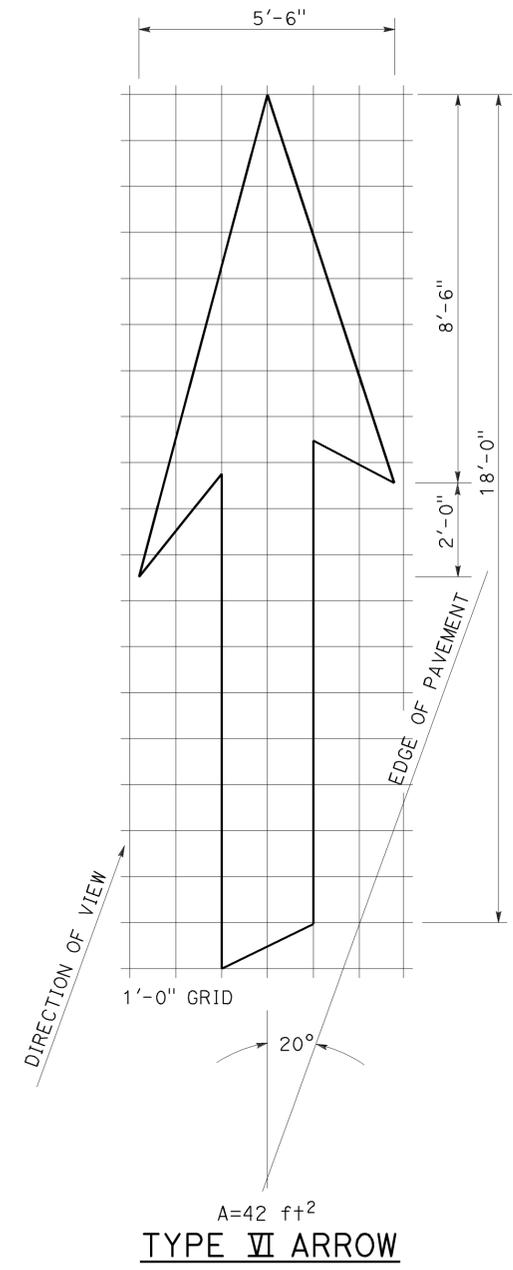
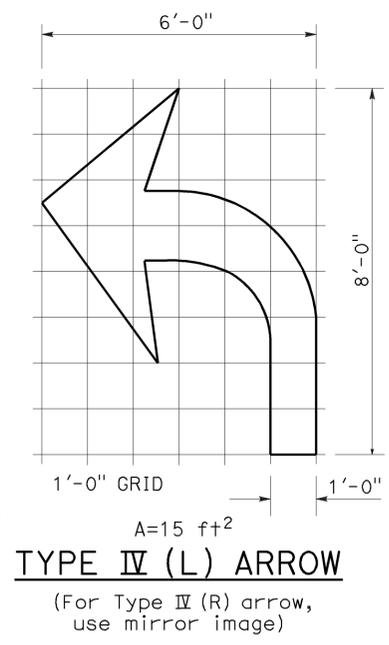
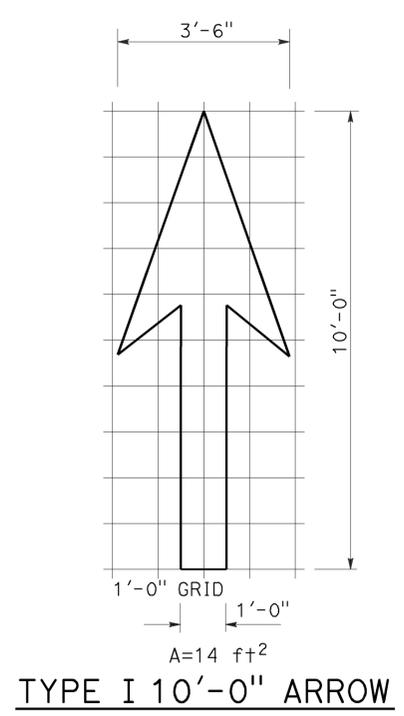
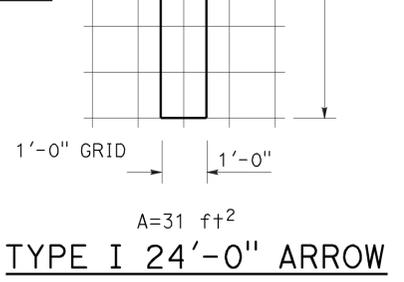
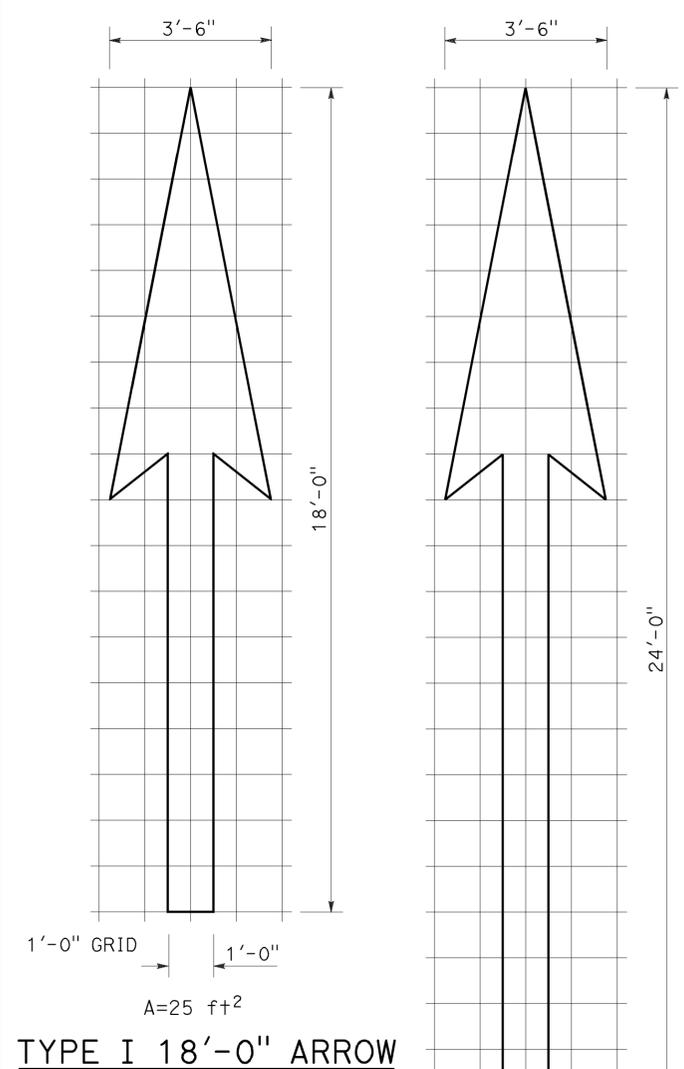
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	118, 210, 405	Var	16	38

Registered Professional Engineer
 Roberta L. McLaughlin
 No. C40375
 Exp. 3-31-13
 STATE OF CALIFORNIA

April 20, 2012
 PLANS APPROVAL DATE

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TO ACCOMPANY PLANS DATED 11-17-14

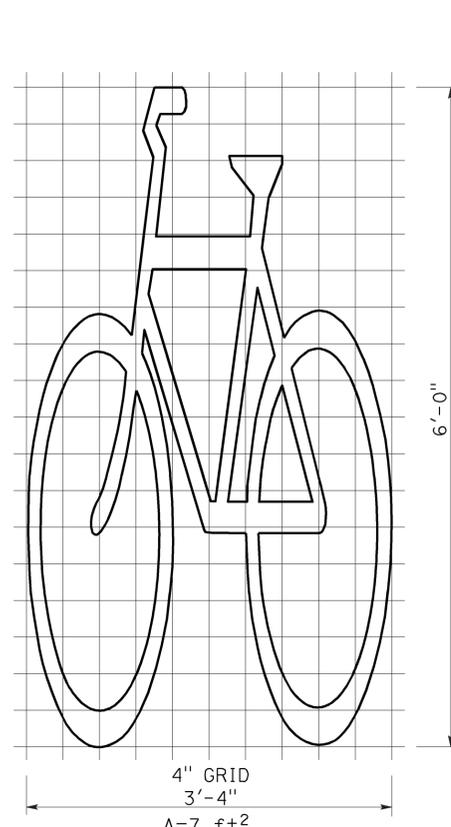


NOTE:
Minor variations in dimensions may be accepted by the Engineer.

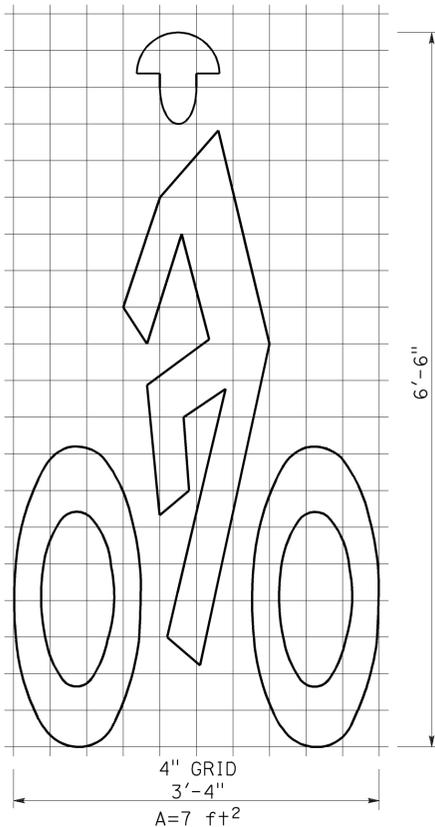
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**PAVEMENT MARKINGS
ARROWS**
NO SCALE

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

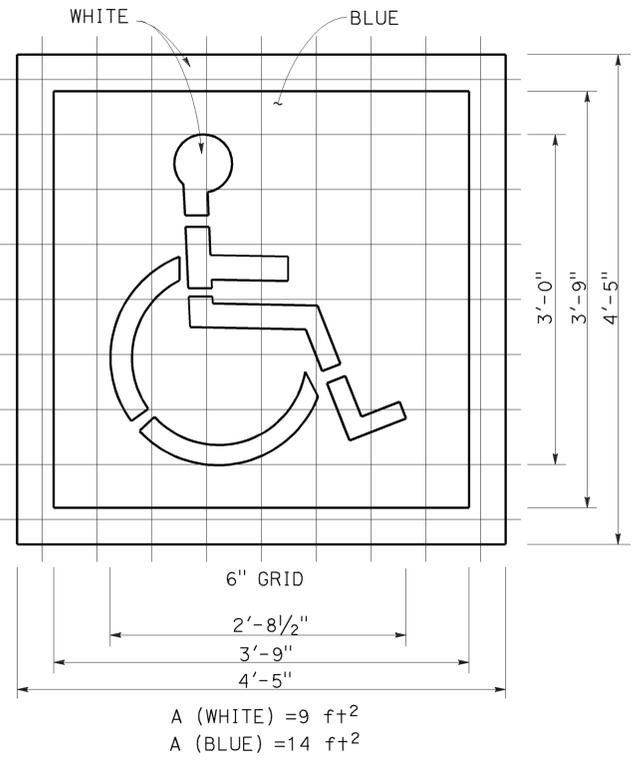
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	118, 210, 405	Var	17	38
<i>Roberta L. McLaughlin</i> REGISTERED CIVIL ENGINEER					
October 19, 2012 PLANS APPROVAL DATE					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					
REGISTERED PROFESSIONAL ENGINEER Roberta L. McLaughlin No. C40375 Exp. 3-31-13 CIVIL STATE OF CALIFORNIA					



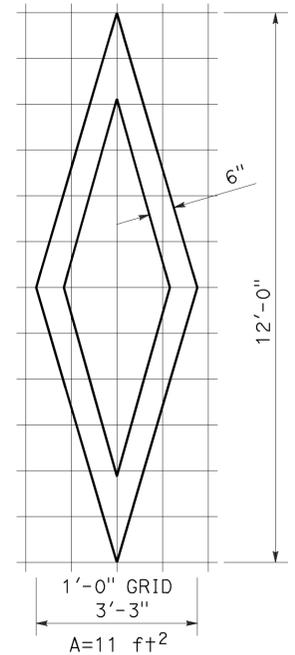
BIKE LANE SYMBOL WITHOUT PERSON



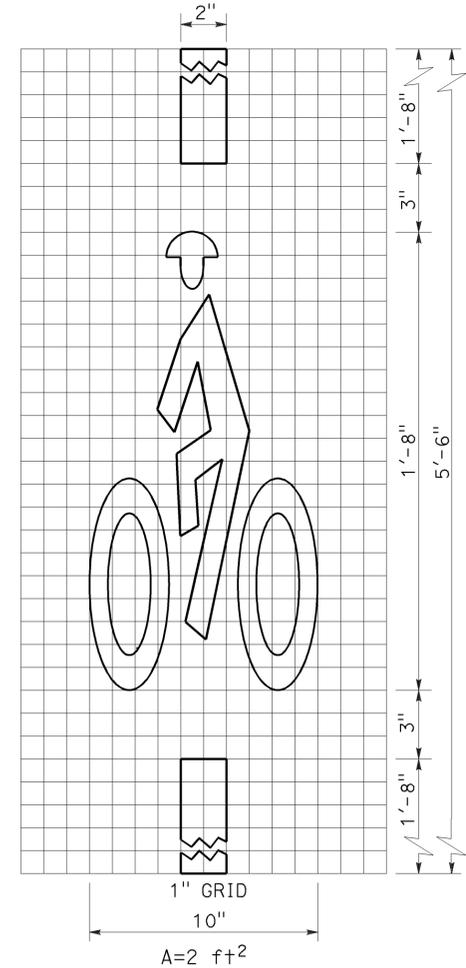
BIKE LANE SYMBOL WITH PERSON



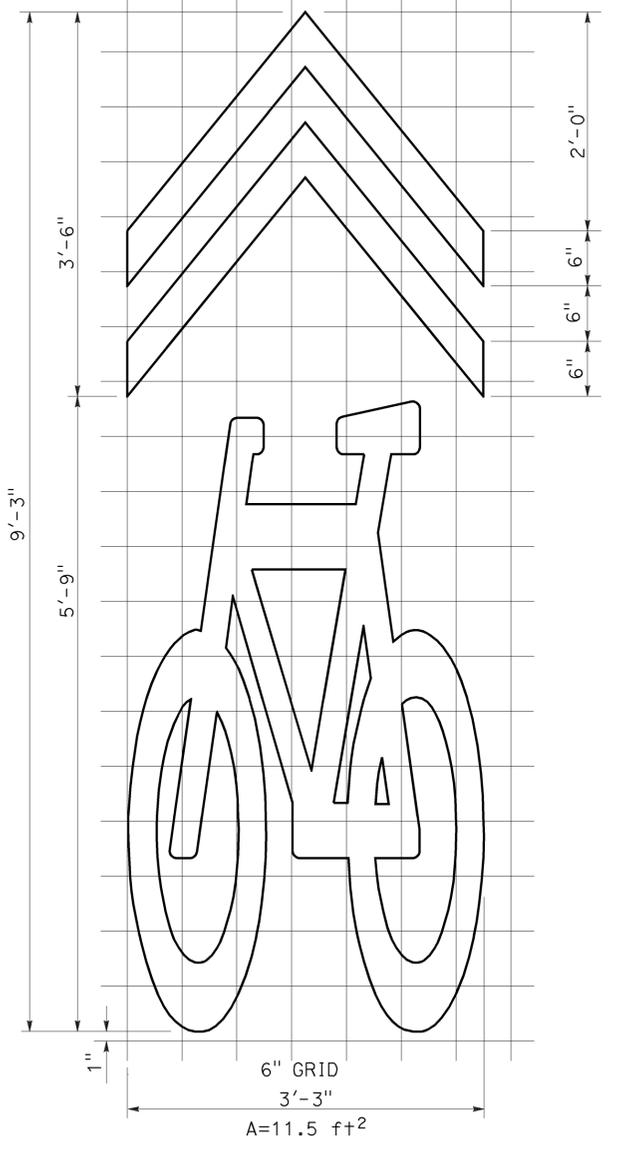
INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA) MARKING



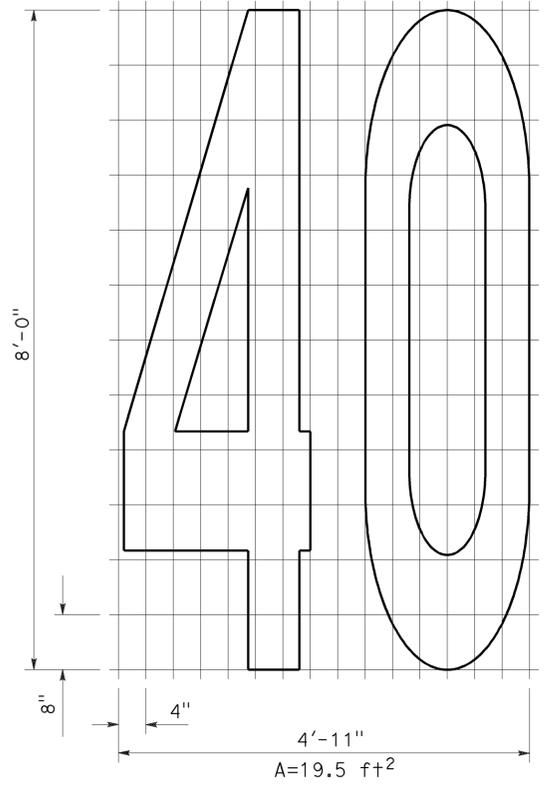
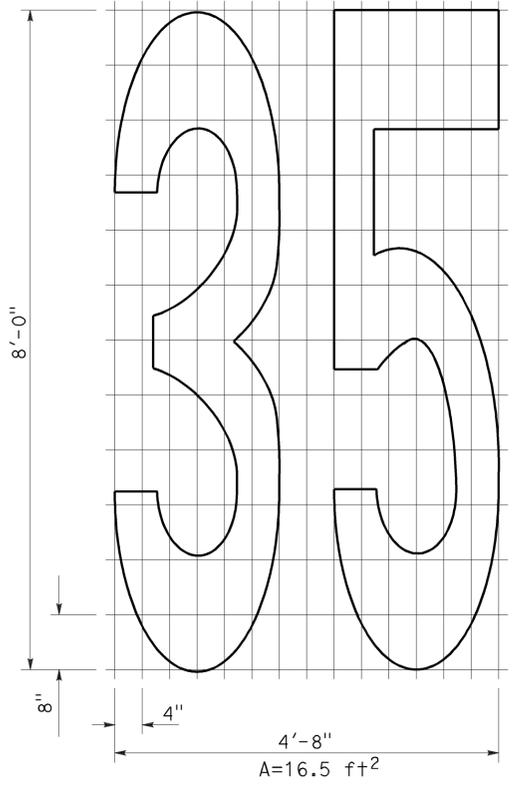
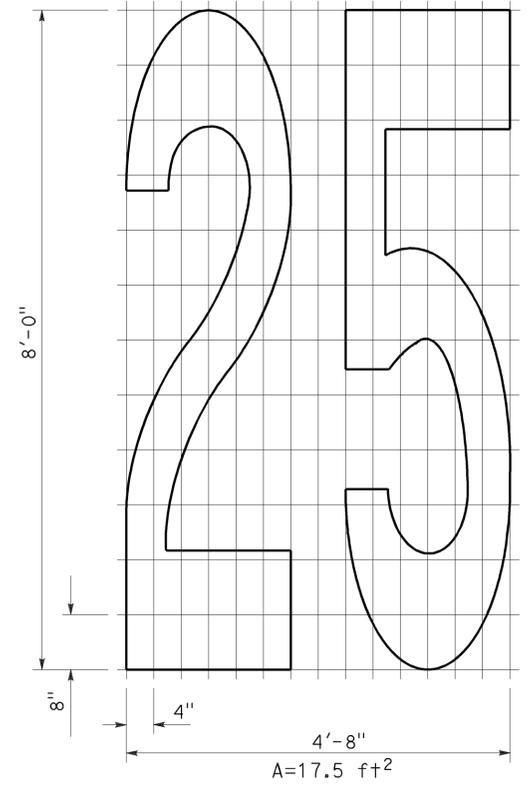
DIAMOND SYMBOL



BICYCLE LOOP DETECTOR SYMBOL



SHARED ROADWAY BICYCLE MARKING

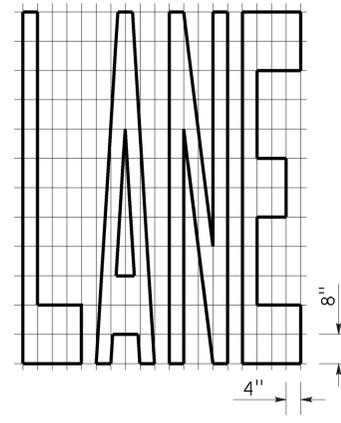


NUMERALS

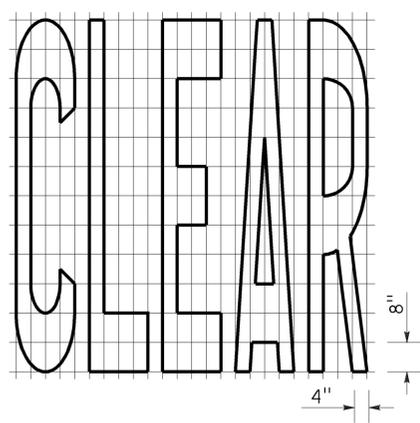
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKINGS SYMBOLS AND NUMERALS
 NO SCALE
 RSP A24C DATED OCTOBER 19, 2012 SUPERSEDES STANDARD PLAN A24C DATED MAY 20, 2011 - PAGE 15 OF THE STANDARD PLANS BOOK DATED 2010.

2010 REVISED STANDARD PLAN RSP A24C

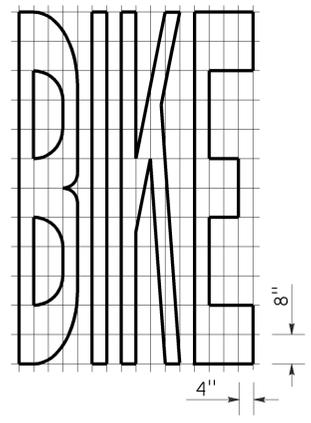
TO ACCOMPANY PLANS DATED 11-17-14



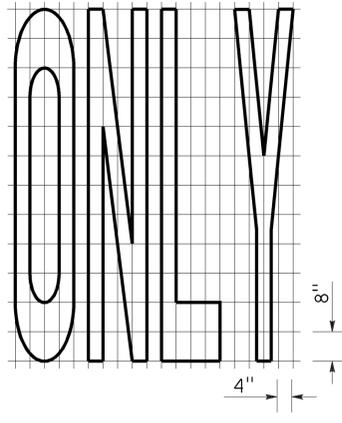
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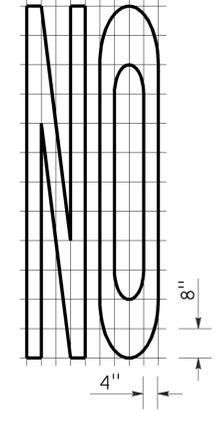
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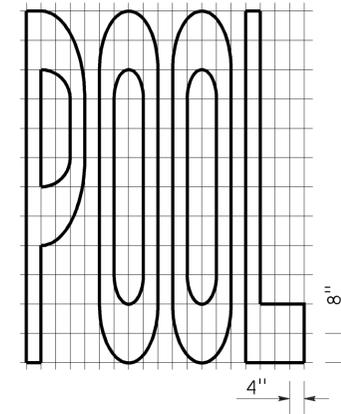
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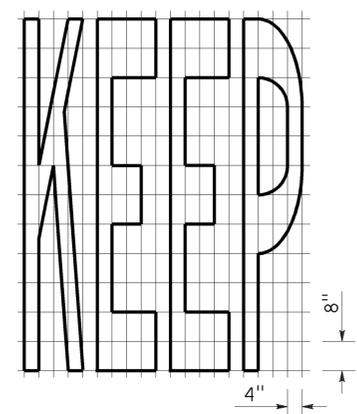
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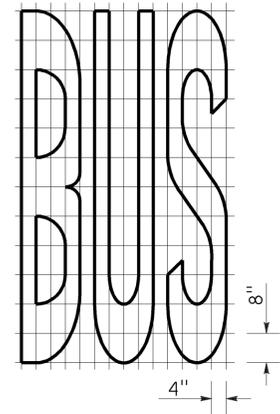
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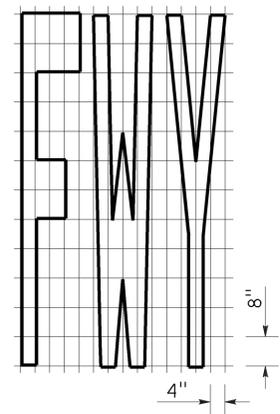
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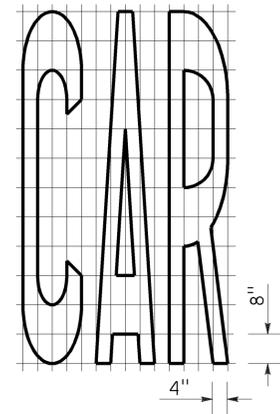
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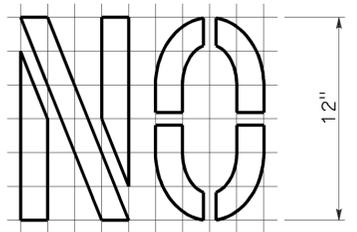


A=16 ft²



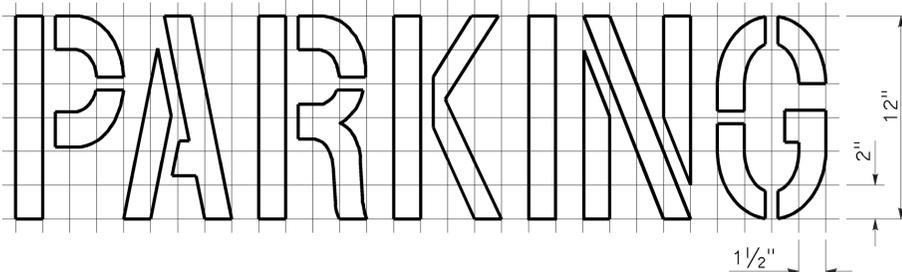
A=17 ft²

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



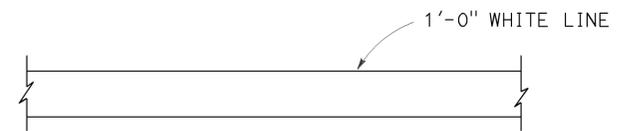
A=2 ft²

See Notes 6 and 7



A=2 ft²

See Notes 6 and 7



LIMIT LINE (STOP LINE)



YIELD LINE

NOTES:

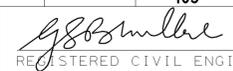
1. If a message consists of more than one word, it should read "UP", i.e., the first word should be nearest the driver.
2. The space between words should be at least four times the height of the characters for low speed roads, but not more than ten times the height of the characters. The space may be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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**PAVEMENT MARKINGS
WORDS, LIMIT AND YIELD LINES**

NO SCALE

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	118, 210, 405	Var	19	38


 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 11-17-14

TABLE 1

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

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

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

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

TABLE 2

LONGITUDINAL BUFFER SPACE AND FLAGGER STATION SPACING				
SPEED *	Min D **	DOWNGRADE Min D ***		
		-3%	-6%	-9%
		ft	ft	ft
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.

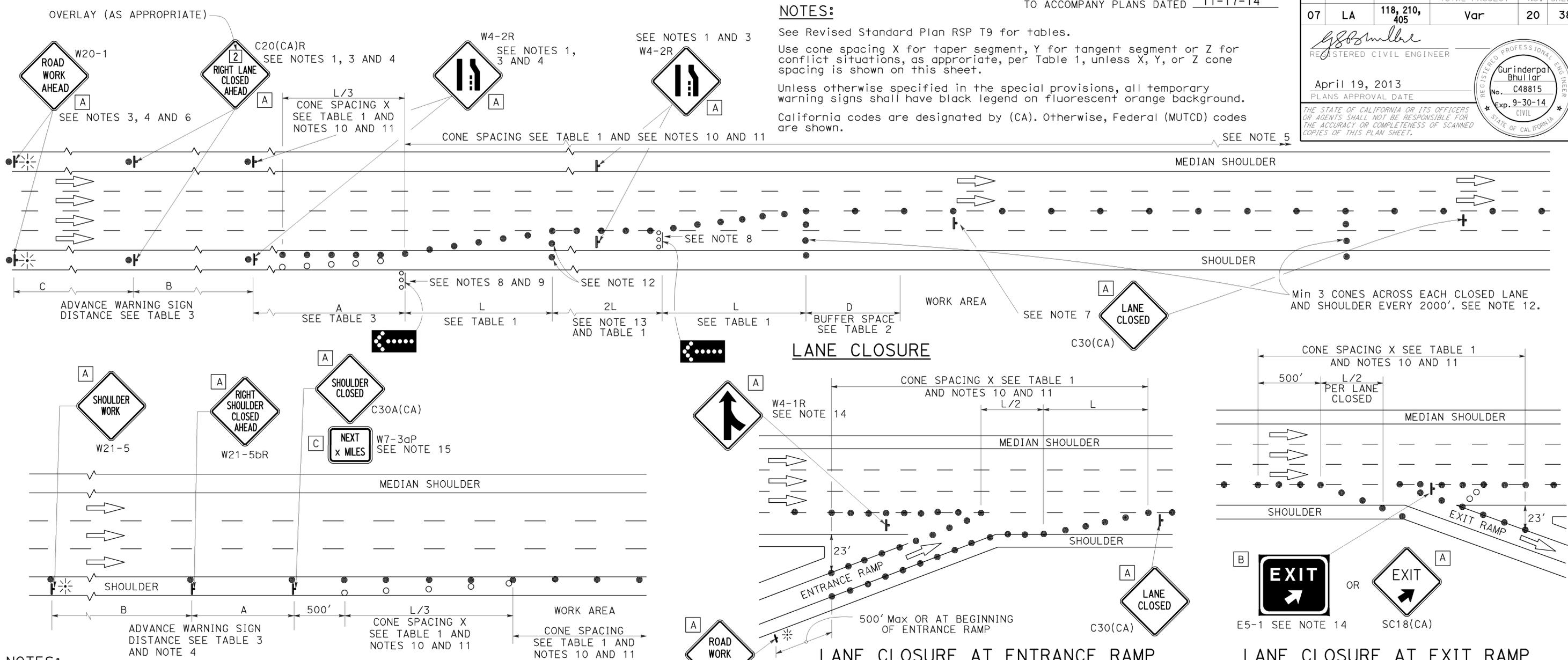
2010 REVISED STANDARD PLAN RSP T9

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	118, 210, 405	Var	20	38

REGISTERED CIVIL ENGINEER
 April 19, 2013
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 Gurinderpal Bhullar
 No. C48815
 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.



- 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 x 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 x MILES" plaque must be used if the shoulder closure extends beyond the distance that can be perceived by road users.

LEGEND

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

SIGN PANEL SIZE (Min)

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

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON FREEWAYS AND EXPRESSWAYS

NO SCALE

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

REVISED STANDARD PLAN RSP T10

2010 REVISED STANDARD PLAN RSP T10

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

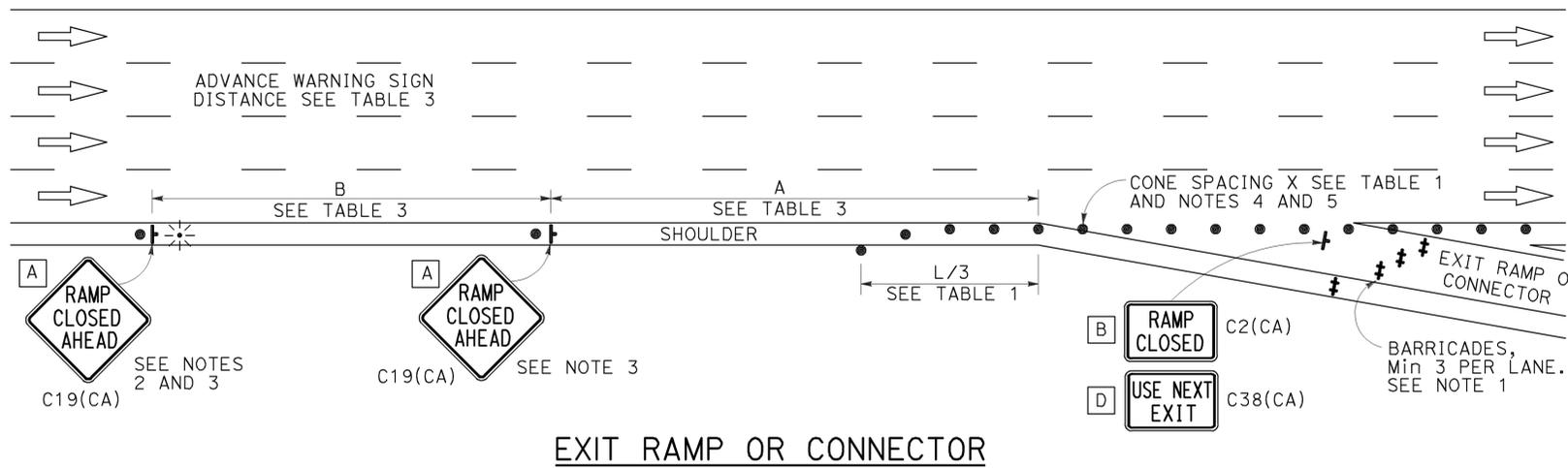
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	118, 210, 405	Var	21	38

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

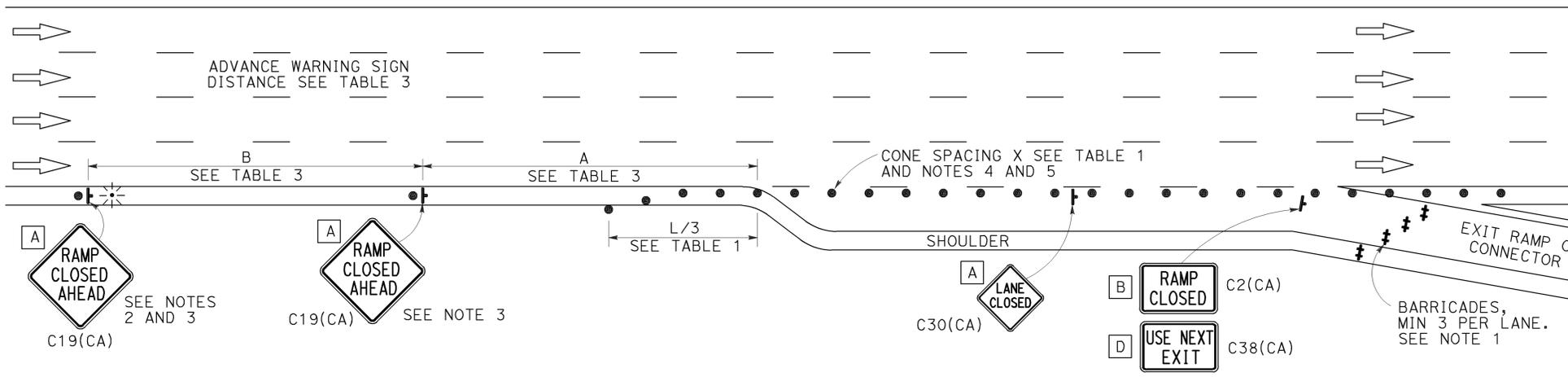
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TO ACCOMPANY PLANS DATED 11-17-14

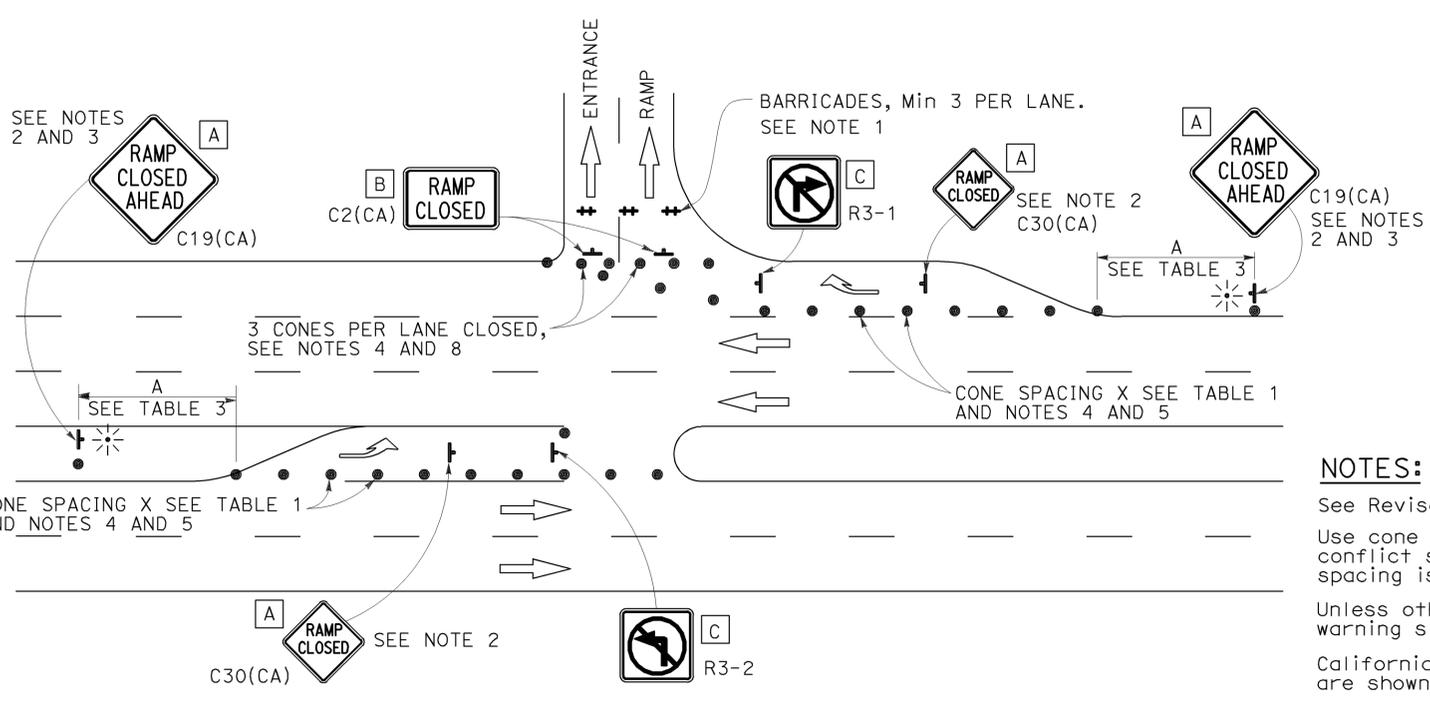
2010 REVISED STANDARD PLAN RSP T14



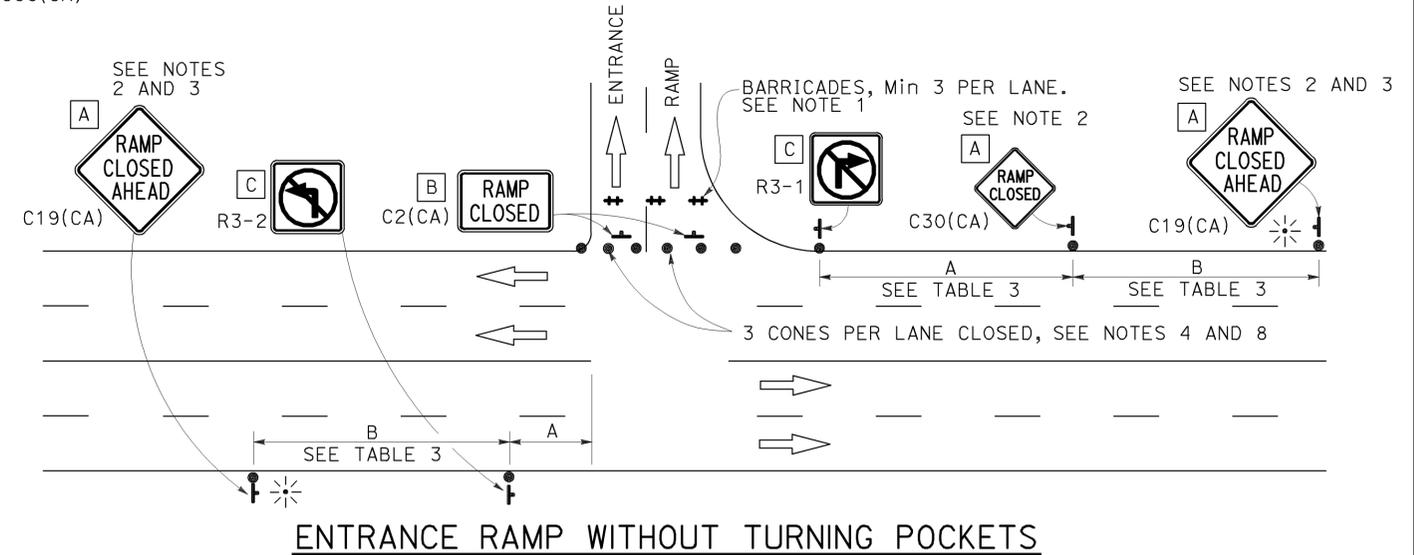
EXIT RAMP OR CONNECTOR



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.

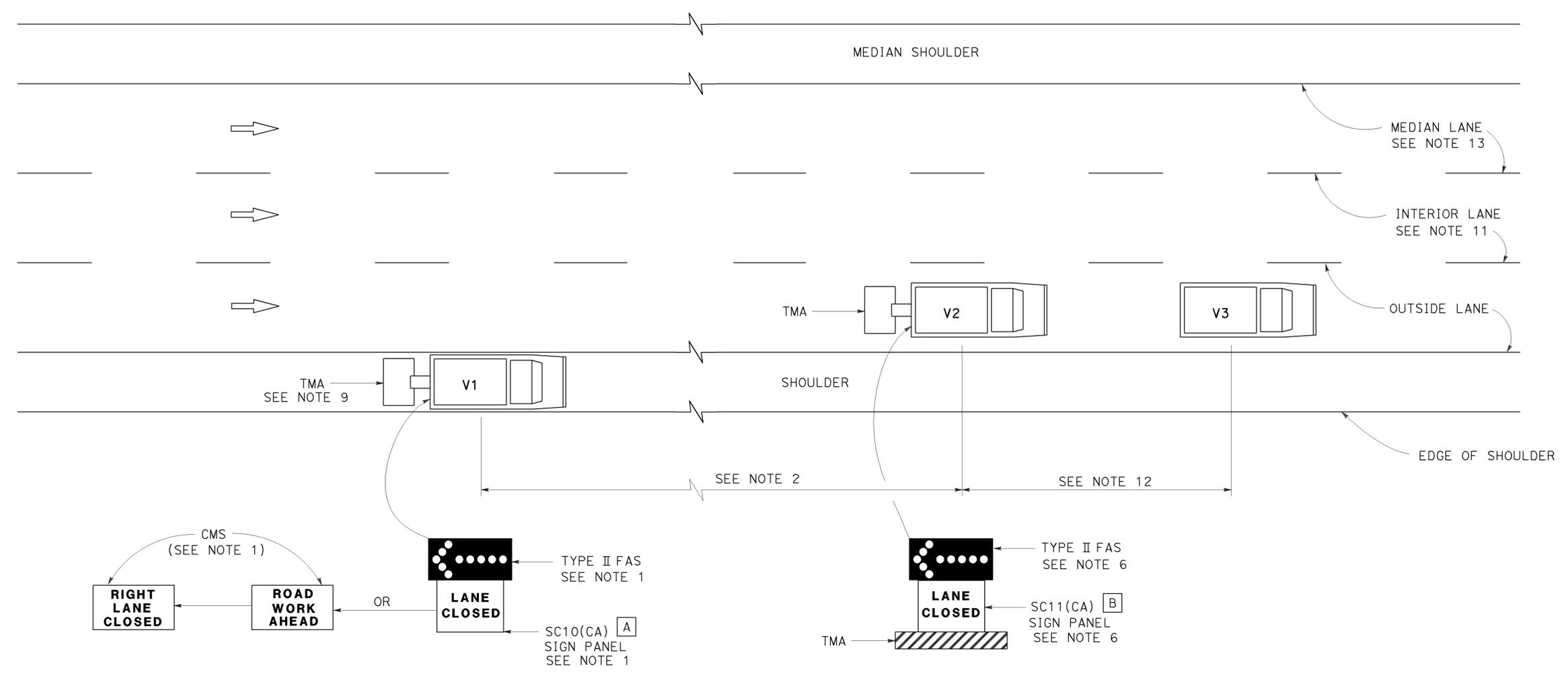
NOTES:

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

TO ACCOMPANY PLANS DATED 11-17-14



SIGN PANEL SIZE (Min)

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

LEGEND

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

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

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR MOVING LANE CLOSURE ON MULTILANE HIGHWAYS
NO SCALE

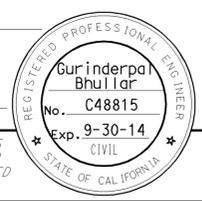
RSP T15 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T15 DATED MAY 20, 2011 - PAGE 243 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T15

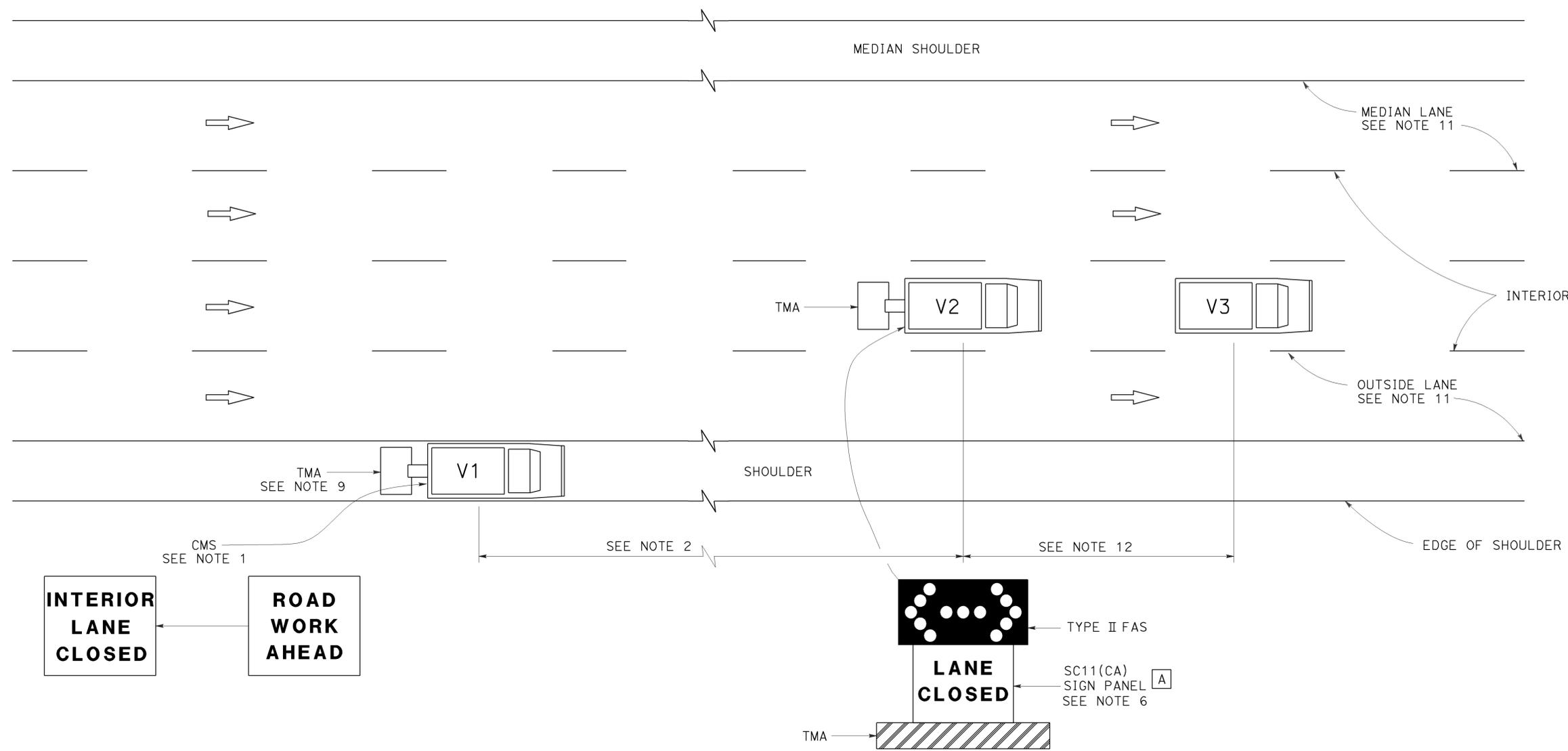
2010 REVISED STANDARD PLAN RSP T15

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	118, 210, 405	Var	23	38

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 11-17-14



SIGN PANEL SIZE (Min)

A 54" x 42"

LEGEND

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

MOVING LANE CLOSURE ON INTERIOR LANE OF MULTILANE HIGHWAYS

NOTES:

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

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

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

REVISED STANDARD PLAN RSP T16

2010 REVISED STANDARD PLAN RSP T16

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	118,210,405	Var	24	38

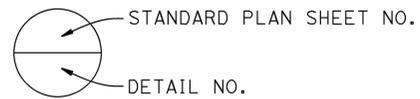
REGISTERED CIVIL ENGINEER DATE 09-03-14
 PLANS APPROVAL DATE 11-17-14
 No. C69896
 Exp. 09/30/16
 CIVIL
 STATE OF CALIFORNIA
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INDEX TO PLANS

SHEET NO.	TITLE
1	GENERAL PLAN NO. 1
2	GENERAL PLAN NO. 2
3	GENERAL PLAN NO. 3
4	GENERAL PLAN NO. 4
5	GENERAL PLAN NO. 5
6	GENERAL PLAN NO. 6
7	GENERAL PLAN NO. 7
8	GENERAL PLAN NO. 8
9	GENERAL PLAN NO. 9
10	GENERAL PLAN NO. 10
11	GENERAL PLAN NO. 11
12	JOINT SEAL ASSEMBLY (AS-BUILT)
13	MISCELLANEOUS DETAILS NO. 1
14	MISCELLANEOUS DETAILS NO. 2
15	ACCESS OPENING HATCH, SOFFIT DETAILS

STANDARD PLANS DATED 2010

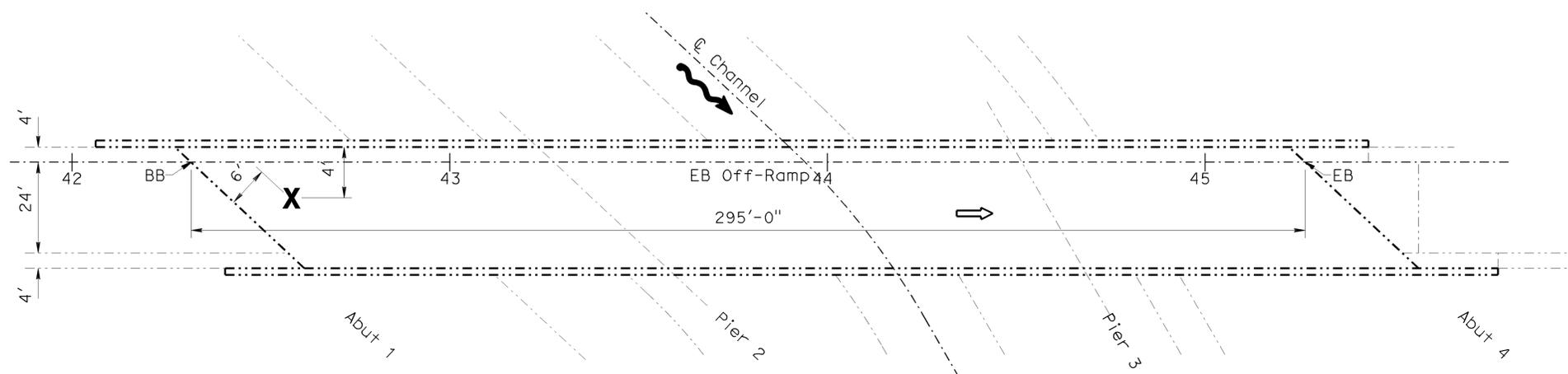
SHEET NO.	TITLE
A10A	ABBREVIATIONS (SHEET 1 OF 2)
RSP A10B	ABBREVIATIONS (SHEET 2 OF 2)
A10C	LINES AND SYMBOLS (SHEET 1 OF 3)
A10D	LINES AND SYMBOLS (SHEET 2 OF 3)
A10E	LINES AND SYMBOLS (SHEET 3 OF 3)
B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")



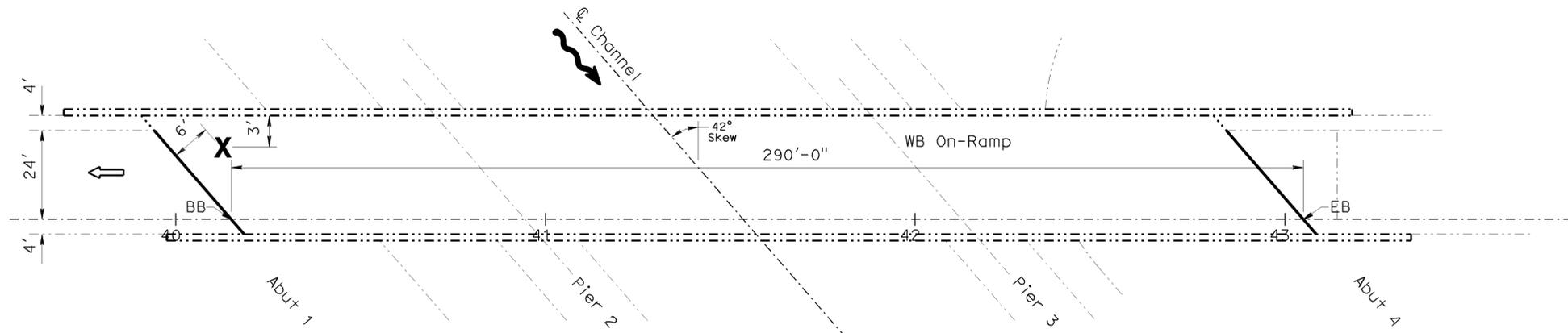
LEGEND:

- Indicates existing.
- Indicates direction of traffic.
- Indicates location of existing joint seal removal and placement of new joint seal.
- X Indicates location of the installation of the box girder soffit opening cover plate. See "Access Opening Hatch, Soffit Details" sheet.

LIMEKILN CANYON WASH #53-2502S
QUANTITIES
MISCELLANEOUS METAL (BRIDGE) 40 LB



LIMEKILN CANYON WASH
Br No. 53-2502S, Rte 118, PM R4.60
1"=20'



LIMEKILN CANYON WASH #53-2502K
QUANTITIES
CLEAN EXPANSION JOINT 76 LF
JOINT SEAL (MR 1 1/2") 76 LF
MISCELLANEOUS METAL (BRIDGE) 40 LB

LIMEKILN CANYON WASH
Br No. 53-2502K, Rte 118, PM R4.54
1"=20'

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Mazin Ibrahim	CHECKED Hong Tien Tran	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 118,210,405 BRIDGES GENERAL PLAN NO. 1	
	DETAILS	BY Clayton Tom	CHECKED Mazin Ibrahim	LAYOUT	BY Clayton Tom			CHECKED Mazin Ibrahim		POST MILE
	QUANTITIES	BY Mazin Ibrahim	CHECKED Hong Tien Tran	SPECIFICATIONS	BY Kevin Ellingson			CHECKED Kevin Ellingson		VARIES

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3
 UNIT: 3489 PROJECT NUMBER & PHASE: 0713000446 1 CONTRACT NO.: 07-2W7704
 DISREGARD PRINTS BEARING EARLIER REVISION DATES
 REVISION DATES: 04-30-14, 05-18-14, 08-28-14, 09-03-14
 SHEET 01 OF 15
 FILE => 07-2w7701-a-gp01.dgn

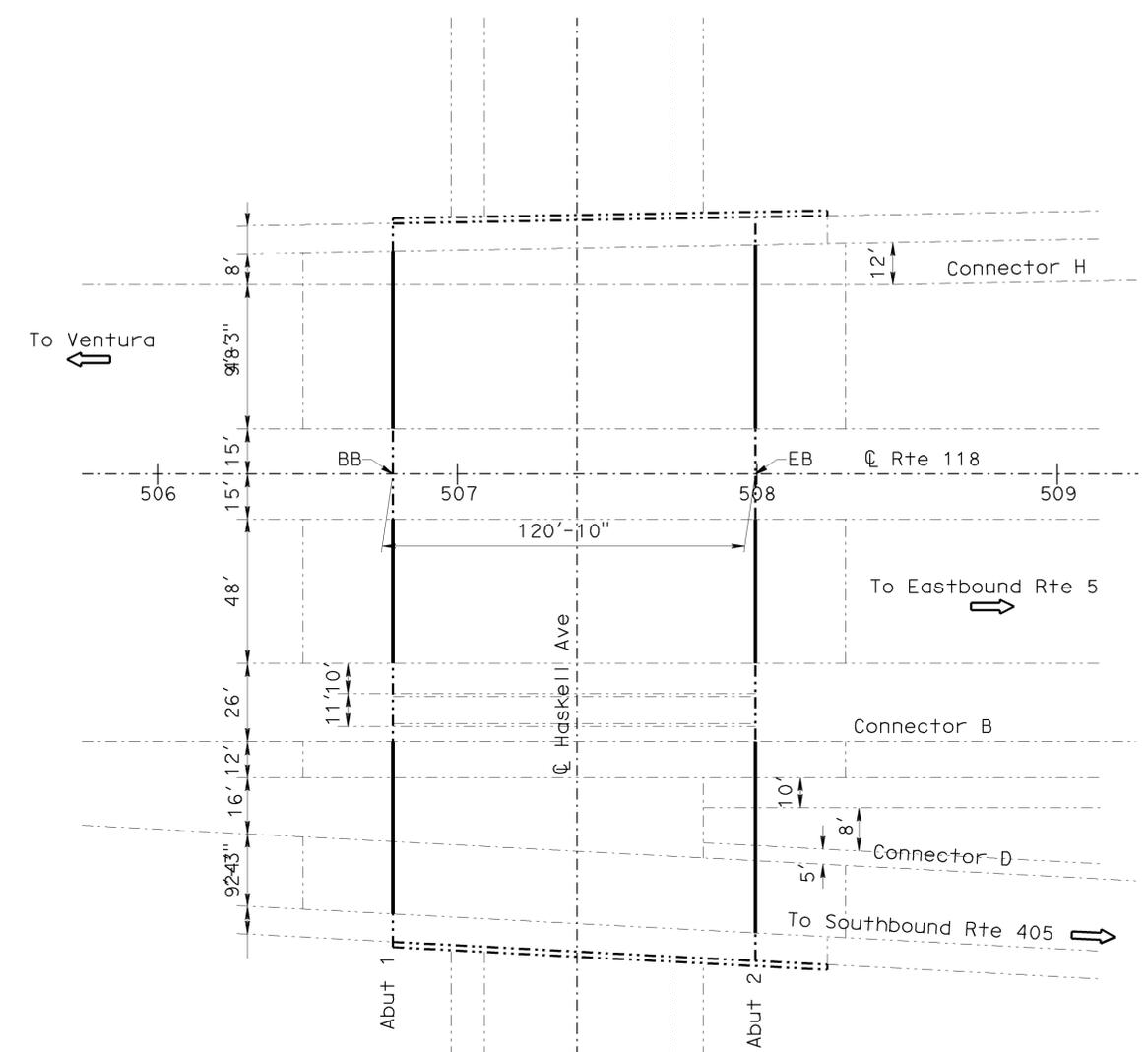
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	118,210,405	Var	25	38

REGISTERED CIVIL ENGINEER *Mazin Ibrahim* DATE 09-03-14
 PLANS APPROVAL DATE 11-17-14
 No. C69896
 Exp. 09/30/16
 CIVIL
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LEGEND:

- Indicates existing.
- ⇒ Indicates direction of traffic.
- Indicates location of existing joint seal removal and placement of new joint seal.



HASKELL AVENUE UC
 Br No. 53-2209, Rte 118, PM R9.57
 1"=30'

HASKELL AVENUE UC #53-2209
 QUANTITIES

CLEAN EXPANSION JOINT 323 LF
 JOINT SEAL (MR 1/2") 323 LF

NOTE:
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Mazin Ibrahim	CHECKED Hong Tien Tran	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 118,210,405 BRIDGES GENERAL PLAN NO. 2				
	DETAILS	BY Clayton Tom	CHECKED Mazin Ibrahim	LAYOUT	BY Clayton Tom			CHECKED Mazin Ibrahim		POST MILE			
	QUANTITIES	BY Mazin Ibrahim	CHECKED Hong Tien Tran	SPECIFICATIONS	BY Kevin Ellingson			CHECKED Kevin Ellingson		PLANS AND SPECS COMPARED	Varies		
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3489	PROJECT NUMBER & PHASE: 0713000446 1	CONTRACT NO.: 07-2W7704	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 02	OF 15

USERNAME => s117283 DATE PLOTTED => 23-OCT-2014 TIME PLOTTED => 06:32

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	118,210,405	Var	26	38

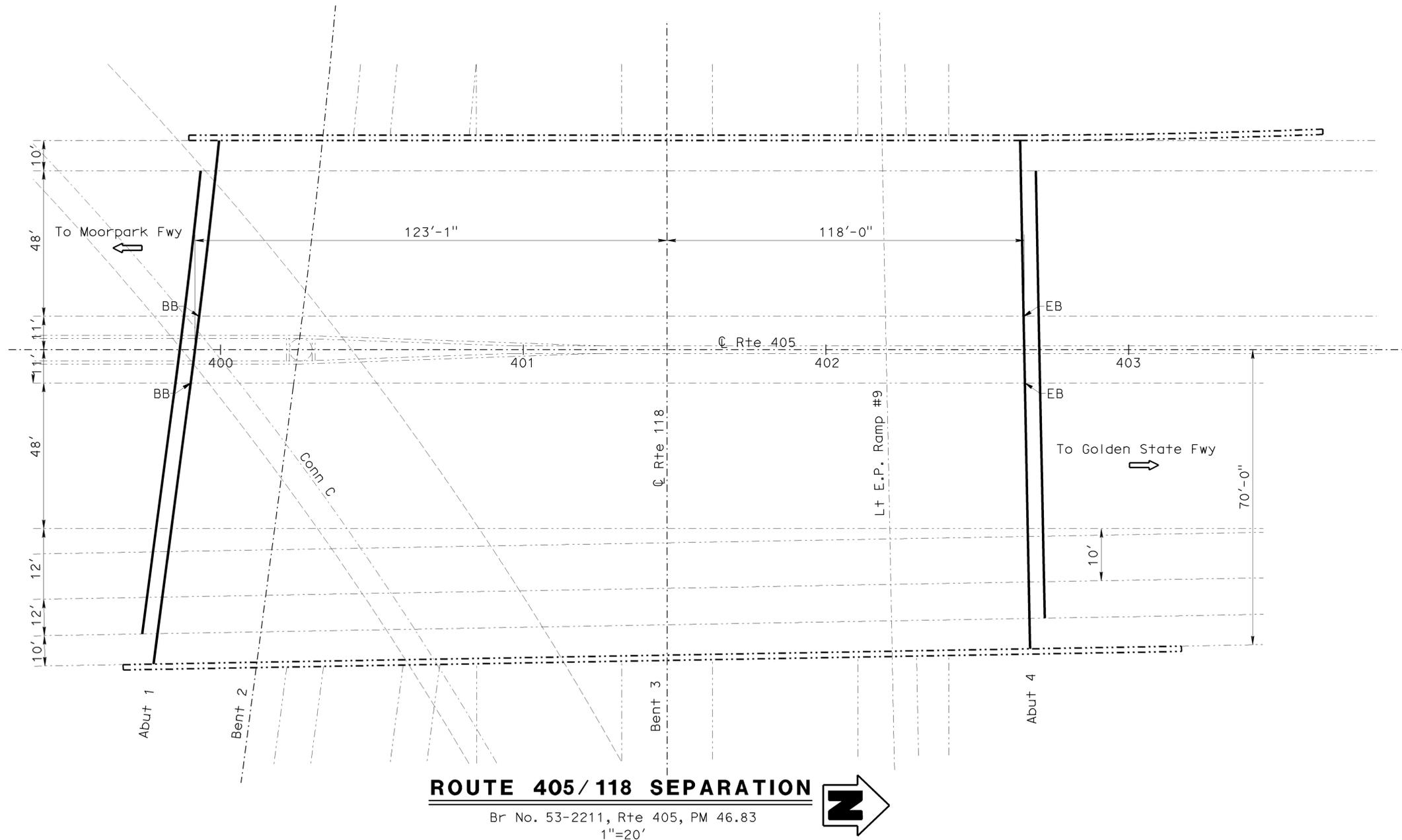
REGISTERED CIVIL ENGINEER DATE 09-03-14
 11-17-14
 PLANS APPROVAL DATE
 No. C69896
 Exp. 09/30/16
 CIVIL
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

LEGEND:

- Indicates existing.
- ⇒ Indicates direction of traffic.
- Indicates location of existing joint seal removal and placement of new joint seal.

ROUTE 405/118 SEPARATION #53-2211
QUANTITIES

CLEAN EXPANSION JOINT	596 LF
JOINT SEAL (MR 1/2")	274 LF
JOINT SEAL (MR 1 1/2")	322 LF



NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.

TONY D. BRAKE
DESIGN ENGINEER

DESIGN	BY Mazin Ibrahim	CHECKED Hong Tien Tran	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Clayton Tom	CHECKED Mazin Ibrahim	LAYOUT	BY Clayton Tom
QUANTITIES	BY Mazin Ibrahim	CHECKED Hong Tien Tran	SPECIFICATIONS	BY Kevin Ellingson

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTE 118,210,405 BRIDGES
GENERAL PLAN NO. 3

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



UNIT: 3489
PROJECT NUMBER & PHASE: 0713000446 1 CONTRACT NO.: 07-2W7704

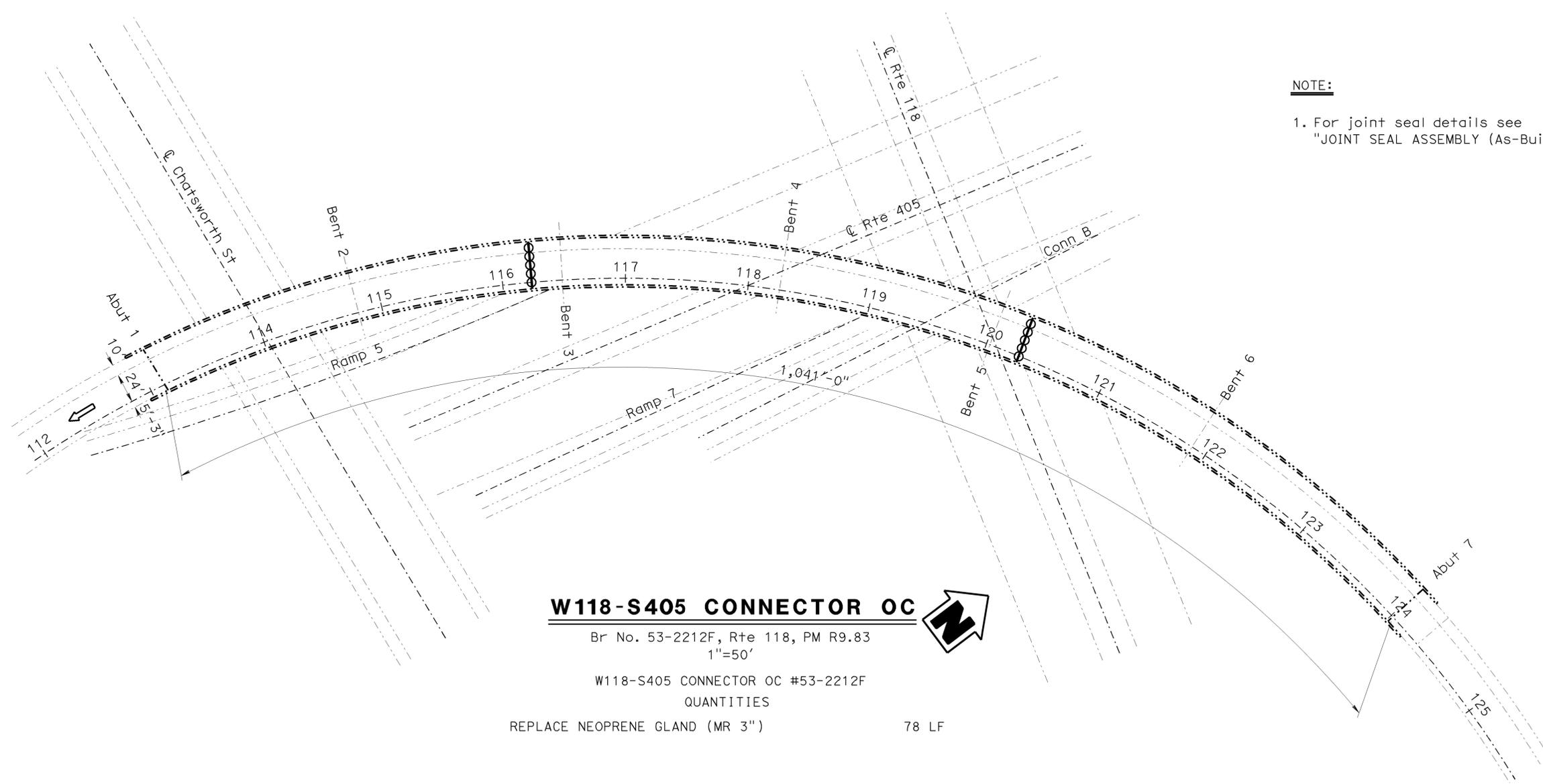
DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
04-23-14 05-16-14 05-26-14 09-03-14	03	15

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	118,210,405	Var	27	38
			DATE	09-03-14	
			REGISTERED CIVIL ENGINEER	MAZIN S. IBRAHIM	
			PLANS APPROVAL DATE	11-17-14	
			No.	C69896	
			Exp.	09/30/16	
			CIVIL		
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LEGEND:

- Indicates existing.
- ⇒ Indicates direction of traffic.
- ⊖⊖⊖⊖⊖⊖ Indicates location of existing strip seal neoprene sheets removal and placement of new strip seal neoprene sheets.



NOTE:
1. For joint seal details see "JOINT SEAL ASSEMBLY (As-Built)" sheet.

W118-S405 CONNECTOR OC
 Br No. 53-2212F, Rte 118, PM R9.83
 1"=50'
 W118-S405 CONNECTOR OC #53-2212F
 QUANTITIES
 REPLACE NEOPRENE GLAND (MR 3") 78 LF

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Mazin Ibrahim	CHECKED Hong Tien Tran	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 118,210,405 BRIDGES GENERAL PLAN NO. 4	
	DETAILS	BY Clayton Tom	CHECKED Mazin Ibrahim	LAYOUT	BY Clayton Tom			CHECKED Mazin Ibrahim		POST MILE
	QUANTITIES	BY Mazin Ibrahim	CHECKED Hong Tien Tran	SPECIFICATIONS	BY Kevin Ellingson			CHECKED Kevin Ellingson		PLANS AND SPECS COMPARED
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)										
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS						0 1 2 3	UNIT: 3489	PROJECT NUMBER & PHASE: 0713000446 1	CONTRACT NO.: 07-2W7704	DISREGARD PRINTS BEARING EARLIER REVISION DATES
								REVISION DATES	SHEET OF	
								04-30-14 05-18-14 05-28-14 09-03-14	04 15	

USERNAME => s117283 DATE PLOTTED => 23-OCT-2014 TIME PLOTTED => 06:33
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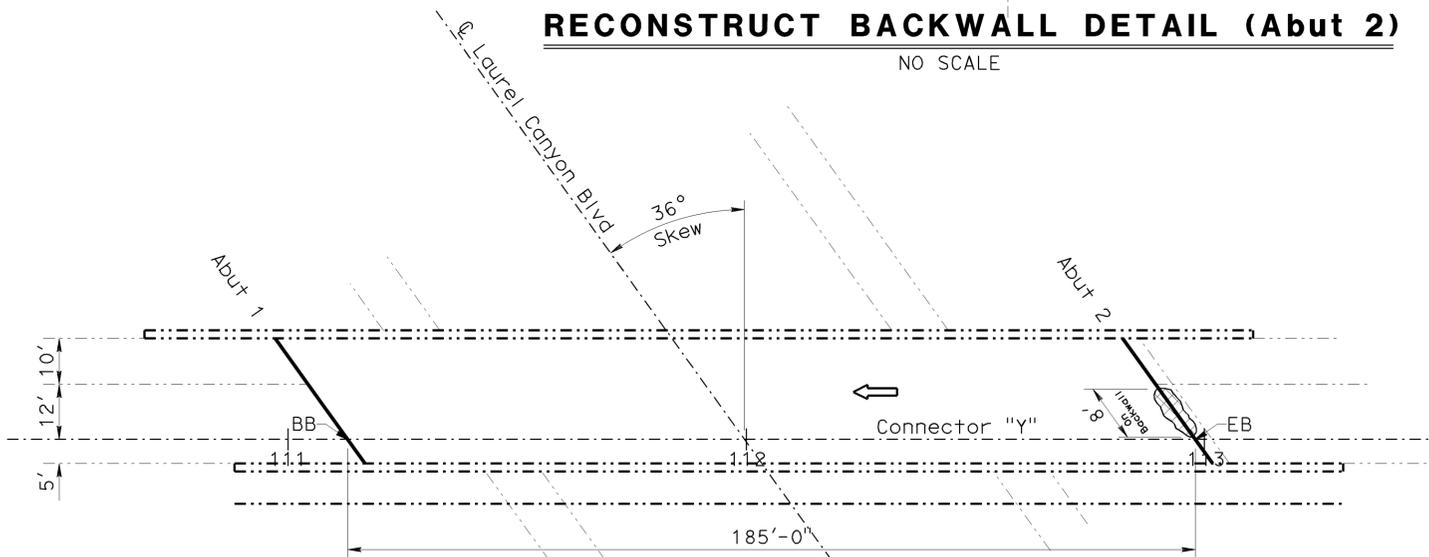
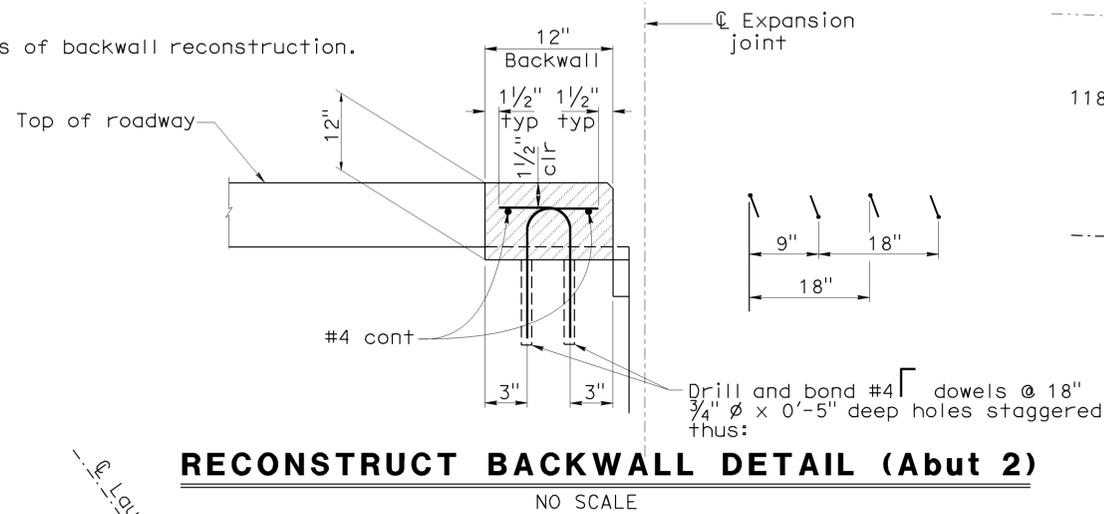
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	118,210,405	Var	28	38

09-03-14
 REGISTERED CIVIL ENGINEER DATE
 11-17-14
 PLANS APPROVAL DATE
 No. C69896
 Exp. 09/30/16
 CIVIL
 STATE OF CALIFORNIA
 REGISTERED PROFESSIONAL ENGINEER
 MAZIN S. IBRAHIM
 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.

LEGEND:

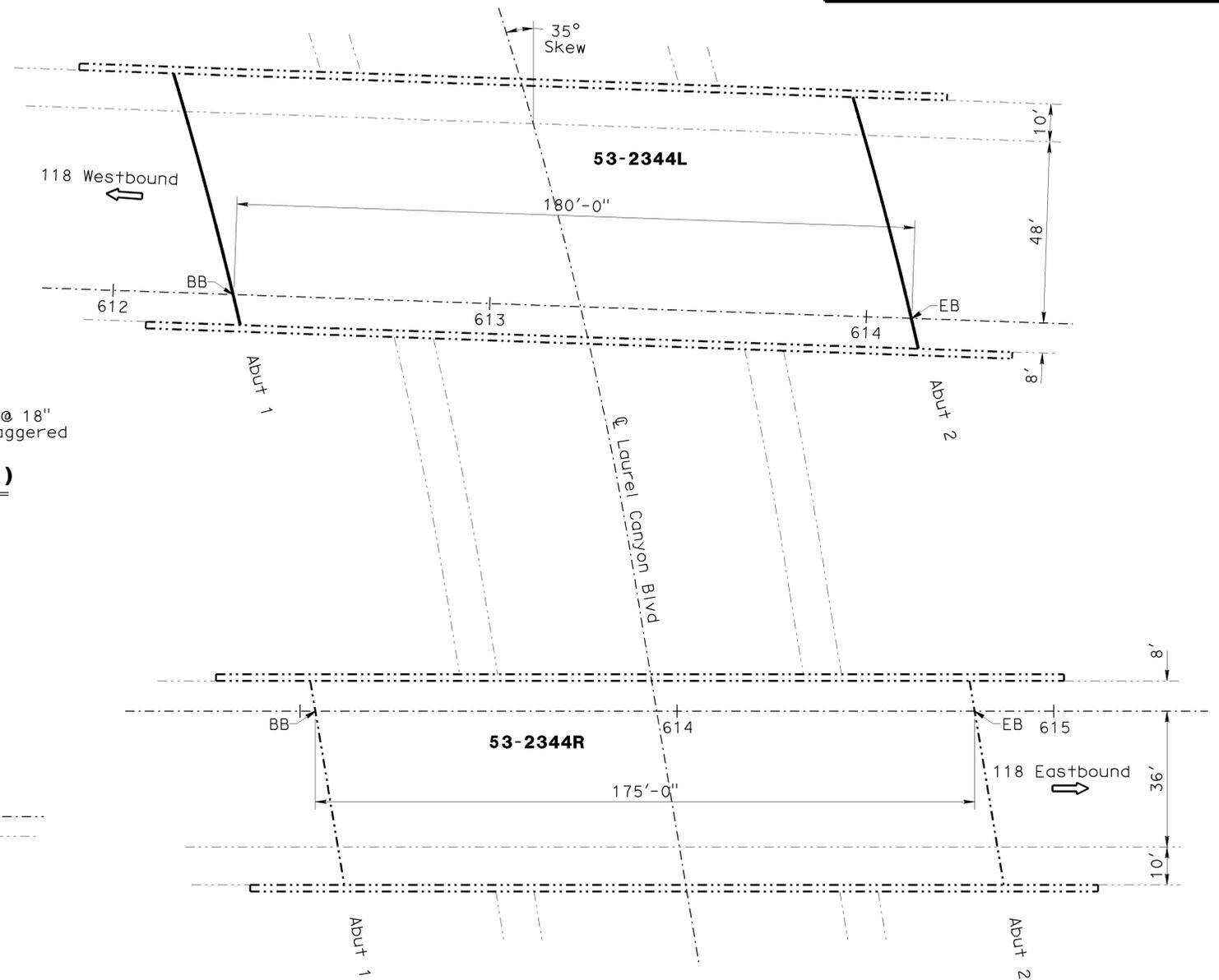
- Indicates existing.
- Indicates direction of traffic.
- Indicates location of existing joint seal removal and placement of new joint seal.
- ▨ Indicates limits of backwall removal.
- ▨ Indicates limits of backwall reconstruction.

LAUREL CANYON BOULEVARD UC #53-2344L
 QUANTITIES
 CLEAN EXPANSION JOINT 160 LF
 JOINT SEAL (MR 1") 160 LF



W118-N5 CONNECTOR OC #53-2345F
 QUANTITIES

BRIDGE REMOVAL (PORTION)	LUMP SUM
STRUCTURAL CONCRETE, BRIDGE	1 CY
DRILL AND BOND DOWEL	6 LF
CLEAN EXPANSION JOINT	66 LF
JOINT SEAL (MR 1 1/2")	66 LF
BAR REINFORCING STEEL (BRIDGE)	30 LB



LAUREL CANYON BOULEVARD UC
 QUANTITIES

Br No. 53-2344L/R, Rte 118, PM R11.57
 1"=20'

NOTE:
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.

TONY D. BRAKE
 DESIGN ENGINEER

DESIGN	BY Mazin Ibrahim	CHECKED Hong Tien Tran	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Clayton Tom	CHECKED Mazin Ibrahim	LAYOUT	BY Clayton Tom
QUANTITIES	BY Mazin Ibrahim	CHECKED Hong Tien Tran	SPECIFICATIONS	BY Kevin Ellingson

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
 POST MILE Varies

ROUTE 118,210,405 BRIDGES
 GENERAL PLAN NO. 5

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	118,210,405	Var	29	38

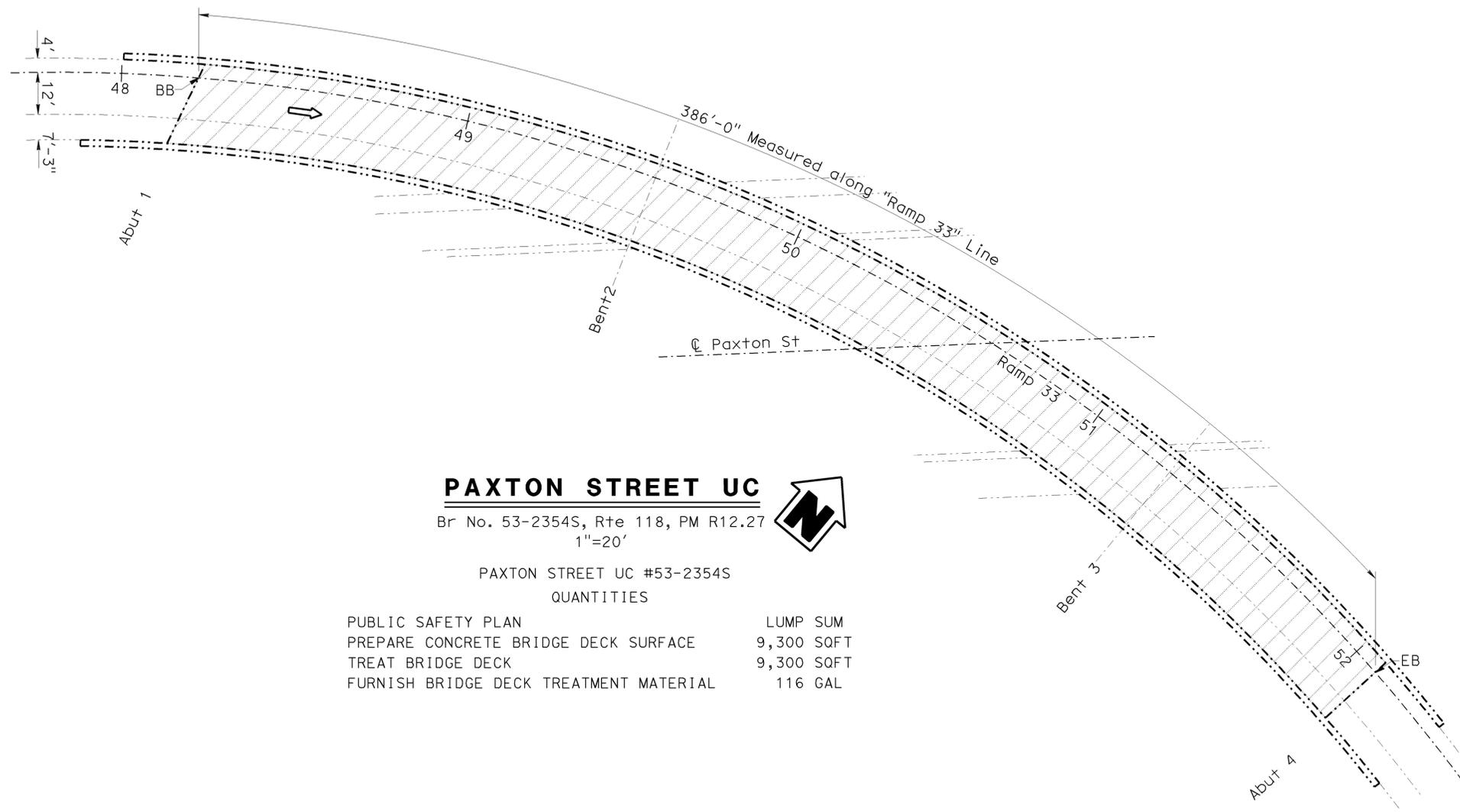
REGISTERED CIVIL ENGINEER DATE 09-03-14
 11-17-14
 PLANS APPROVAL DATE
 No. C69896
 Exp. 09/30/16
 CIVIL
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LEGEND:

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- ➔ Indicates direction of traffic.
- ▨ Indicates limits of prepare concrete bridge deck surface and treat bridge deck with high molecular weight methacrylate.

HERRICK AVENUE UC #53-2356
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	20,000 SQFT
TREAT BRIDGE DECK	20,000 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	250 GAL

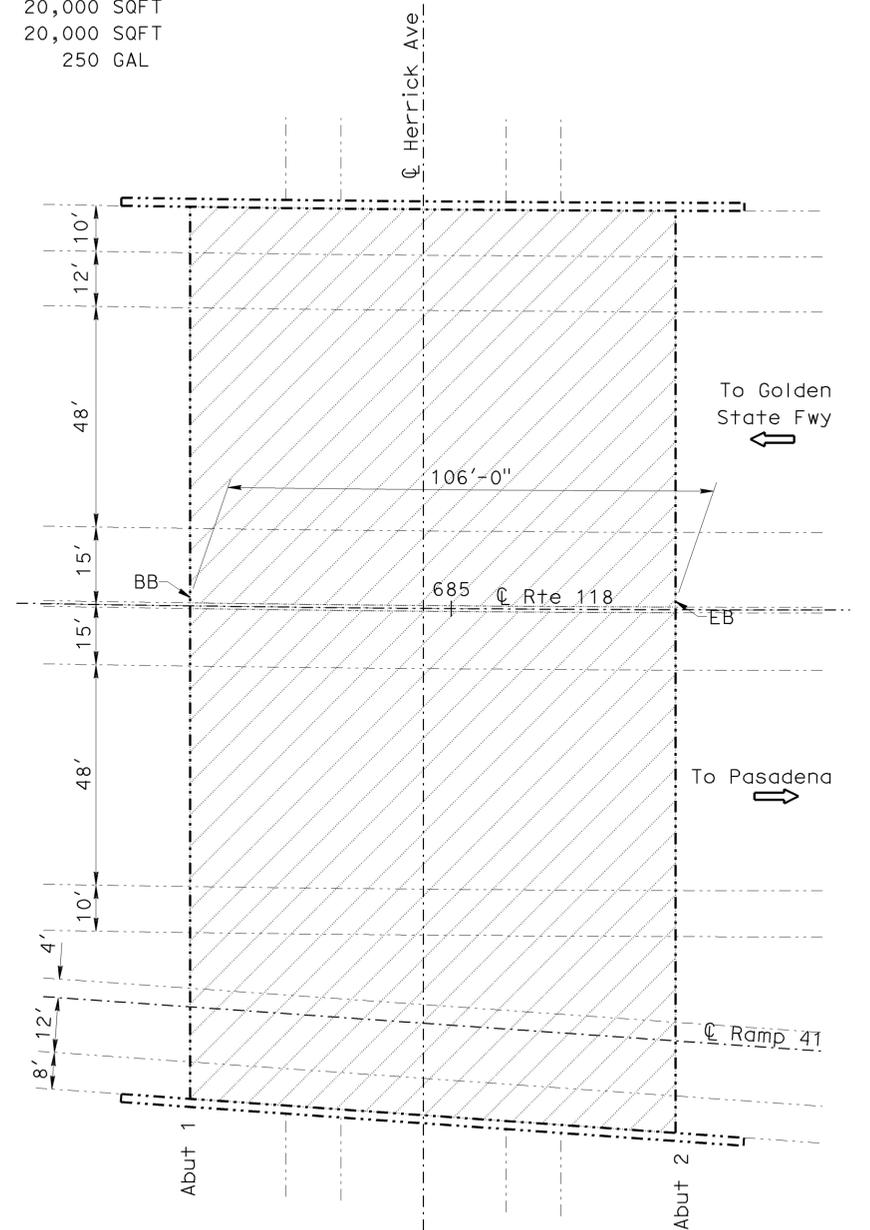


PAXTON STREET UC

Br No. 53-2354S, Rte 118, PM R12.27
1"=20'

PAXTON STREET UC #53-2354S
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	9,300 SQFT
TREAT BRIDGE DECK	9,300 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	116 GAL



HERRICK AVENUE UC

Br No. 53-2356, Rte 118, PM R12.94
1"=20'

NOTE:
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TONY D. BRAKE
DESIGN ENGINEER

DESIGN	BY Mazin Ibrahim	CHECKED Hong Tien Tran	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Clayton Tom	CHECKED Mazin Ibrahim	LAYOUT	BY Clayton Tom
QUANTITIES	BY Mazin Ibrahim	CHECKED Hong Tien Tran	SPECIFICATIONS	BY Kevin Ellingson

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

**ROUTE 118,210,405 BRIDGES
GENERAL PLAN NO. 6**

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



UNIT: 3489
PROJECT NUMBER & PHASE: 0713000446 1 CONTRACT NO.: 07-2W7704

DISREGARD PRINTS BEARING EARLIER REVISION DATES

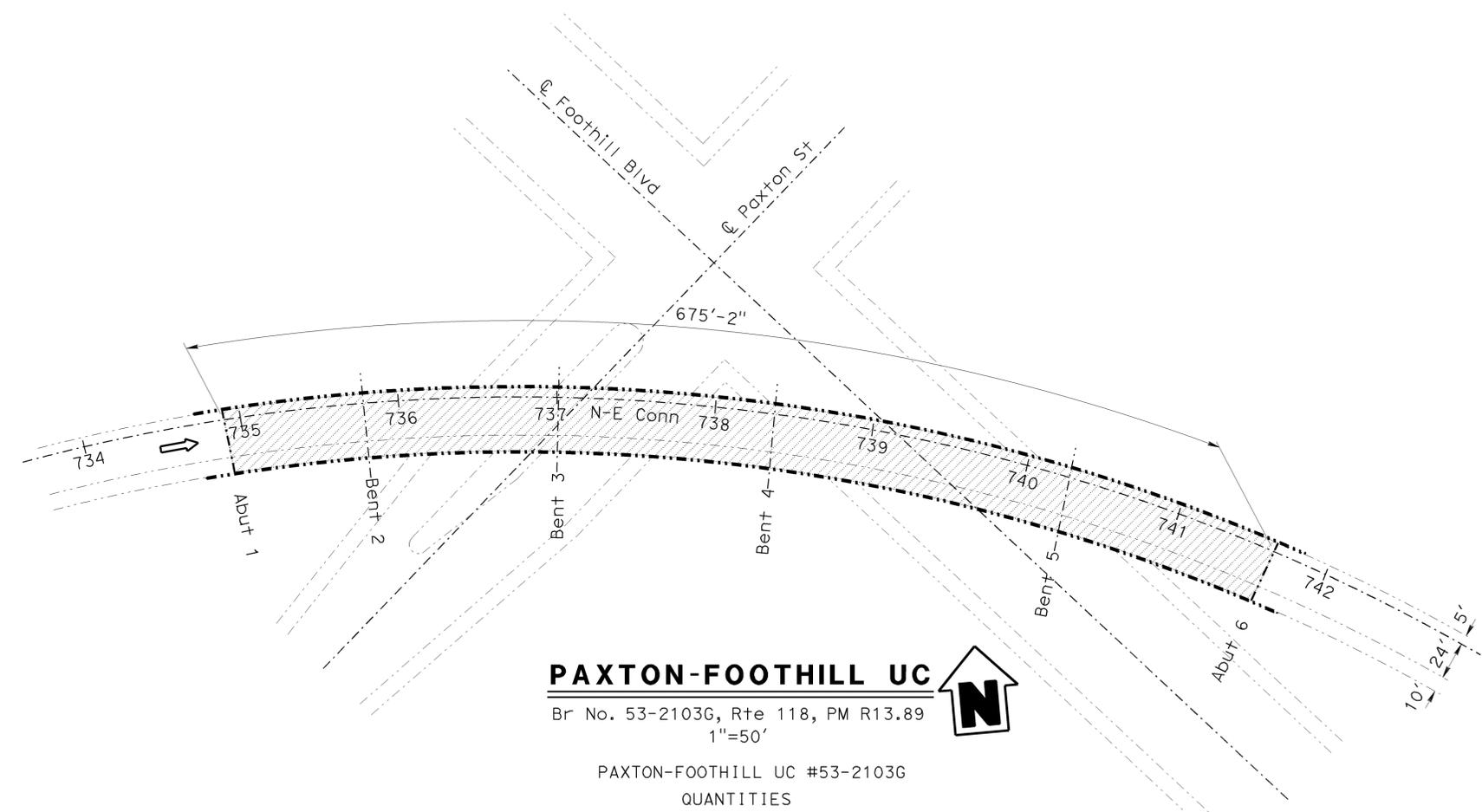
REVISION DATES	SHEET	OF
04-30-14 05-18-14 08-28-14 09-03-14	06	15

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	118,210,405	Var	30	38

REGISTERED CIVIL ENGINEER: *Mazin Ibrahim*
 DATE: 09-03-14
 PLANS APPROVAL DATE: 11-17-14
 No. C69896
 Exp. 09/30/16
 CIVIL
 STATE OF CALIFORNIA
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LEGEND:

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- ⇒ Indicates direction of traffic.
- ▨ Indicates limits of prepare concrete bridge deck surface and treat bridge deck with high molecular weight methacrylate.



PAXTON-FOOTHILL UC
 Br No. 53-2103G, Rte 118, PM R13.89
 1"=50'

PAXTON-FOOTHILL UC #53-2103G
 QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	27,000 SQFT
TREAT BRIDGE DECK	27,000 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	338 GAL

NOTE:
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Mazin Ibrahim	CHECKED Hong Tien Tran	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 118,210,405 BRIDGES GENERAL PLAN NO. 7
	DETAILS	BY Clayton Tom	CHECKED Mazin Ibrahim	LAYOUT	BY Clayton Tom			CHECKED Mazin Ibrahim	
	QUANTITIES	BY Mazin Ibrahim	CHECKED Hong Tien Tran	SPECIFICATIONS	BY Kevin Ellingson	PLANS AND SPECS COMPARED	Kevin Ellingson	Varies	

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 UNIT: 3489 PROJECT NUMBER & PHASE: 0713000446 1 CONTRACT NO.: 07-2W7704 DISREGARD PRINTS BEARING EARLIER REVISION DATES
 REVISION DATES: 04-30-14, 05-14-14, 08-26-14, 09-03-14 SHEET 07 OF 15
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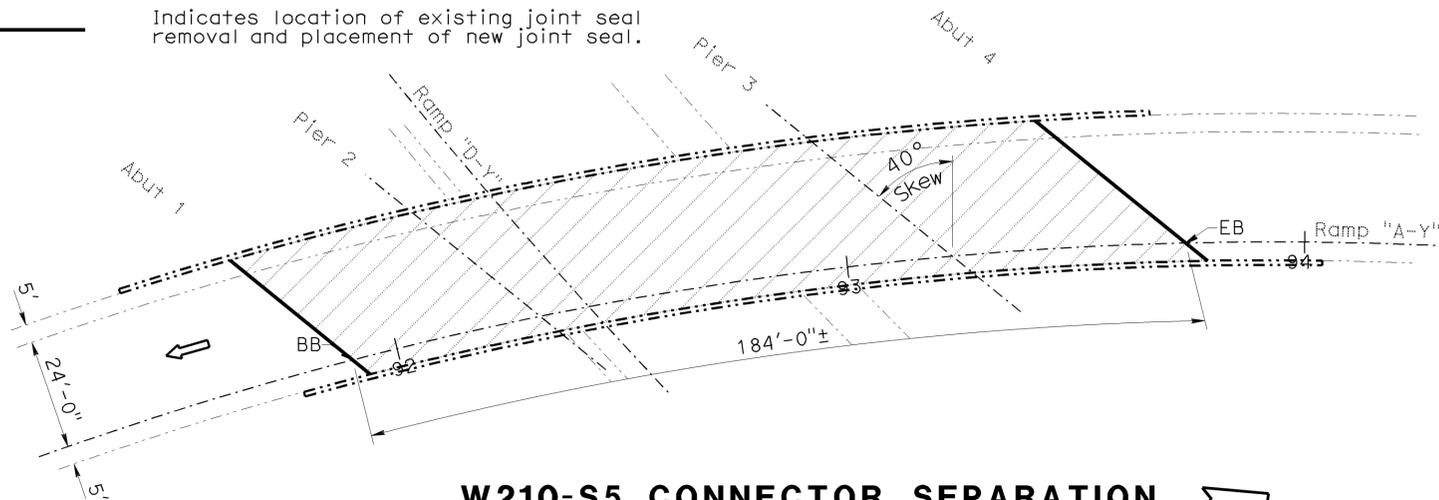
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	118,210,405	Var	31	38

REGISTERED CIVIL ENGINEER DATE 09-03-14
 REGISTERED PROFESSIONAL ENGINEER
 MAZIN S. IBRAHIM
 No. C69896
 Exp. 09/30/16
 CIVIL
 STATE OF CALIFORNIA
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LEGEND:

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- ➔ Indicates direction of traffic.
- ▨ Indicates limits of prepare concrete bridge deck surface and treat bridge deck with high molecular weight methacrylate.
- Indicates location of existing joint seal removal and placement of new joint seal.

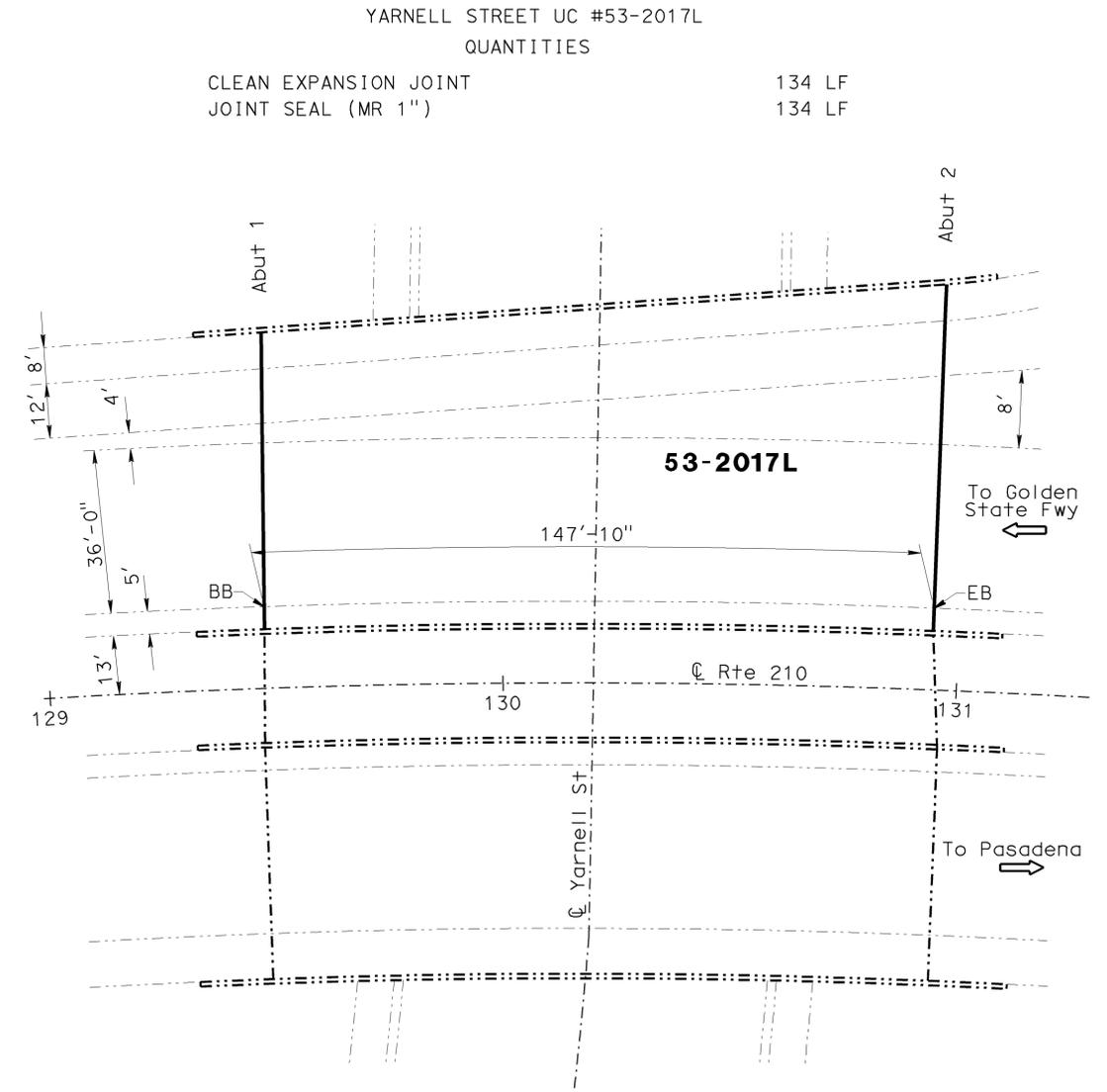


W210-S5 CONNECTOR SEPARATION

Br No. 53-1988F, Rte 210, PM R0.12
1"=20'

W210-S5 CONNECTOR SEPARATION #53-1988F
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	6,260 SQFT
TREAT BRIDGE DECK	6,260 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	78 GAL
CLEAN EXPANSION JOINT	90 LF
JOINT SEAL (MR 1")	90 LF



YARNELL STREET UC

Br No. 53-2017L, Rte 210, PM R0.84
1"=20'

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.

TONY D. BRAKE
DESIGN ENGINEER

DESIGN	BY Mazin Ibrahim	CHECKED Hong Tien Tran	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Clayton Tom	CHECKED Mazin Ibrahim	LAYOUT	BY Clayton Tom
QUANTITIES	BY Mazin Ibrahim	CHECKED Hong Tien Tran	SPECIFICATIONS	BY Kevin Ellingson

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

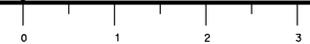
DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTE 118,210,405 BRIDGES
GENERAL PLAN NO. 8

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



UNIT: 3489
PROJECT NUMBER & PHASE: 0713000446 1 CONTRACT NO.: 07-2W7704

DISREGARD PRINTS BEARING EARLIER REVISION DATES

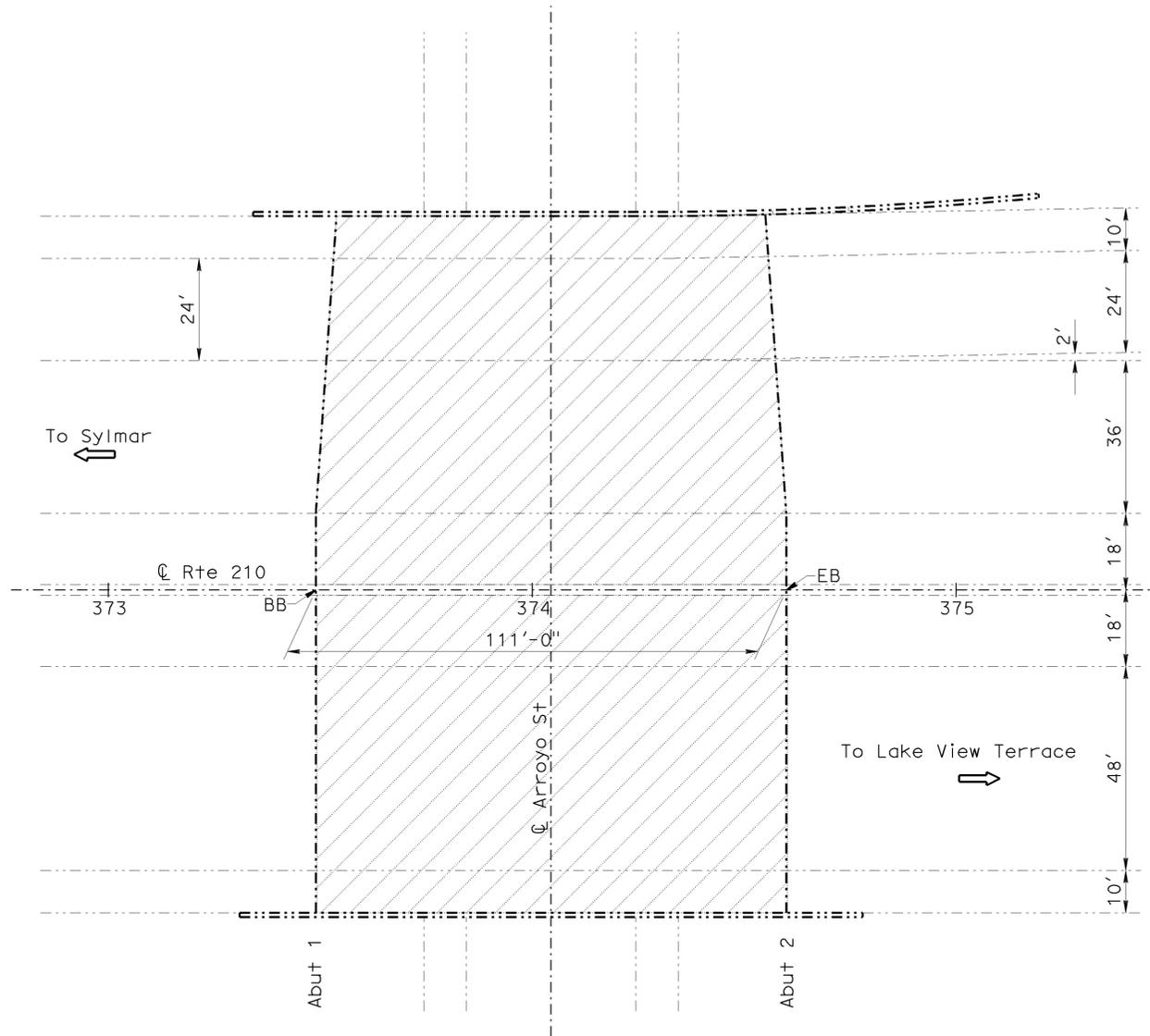
REVISION DATES	SHEET	OF
04-30-14 05-16-14 05-28-14 09-03-14	08	15

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	118,210,405	Var	32	38

REGISTERED CIVIL ENGINEER DATE 09-03-14
 PLANS APPROVAL DATE 11-17-14
 No. C69896
 Exp. 09/30/16
 CIVIL
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LEGEND:

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- ⇒ Indicates direction of traffic.
- ▨ Indicates limits of prepare concrete bridge deck surface and treat bridge deck with high molecular weight methacrylate.



ARROYO STREET UC

Br No. 53-2114, Rte 210, PM R5.46
1"=20'

ARROYO STREET UC #53-2114
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	18,430 SQFT
TREAT BRIDGE DECK	18,430 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	230 GAL

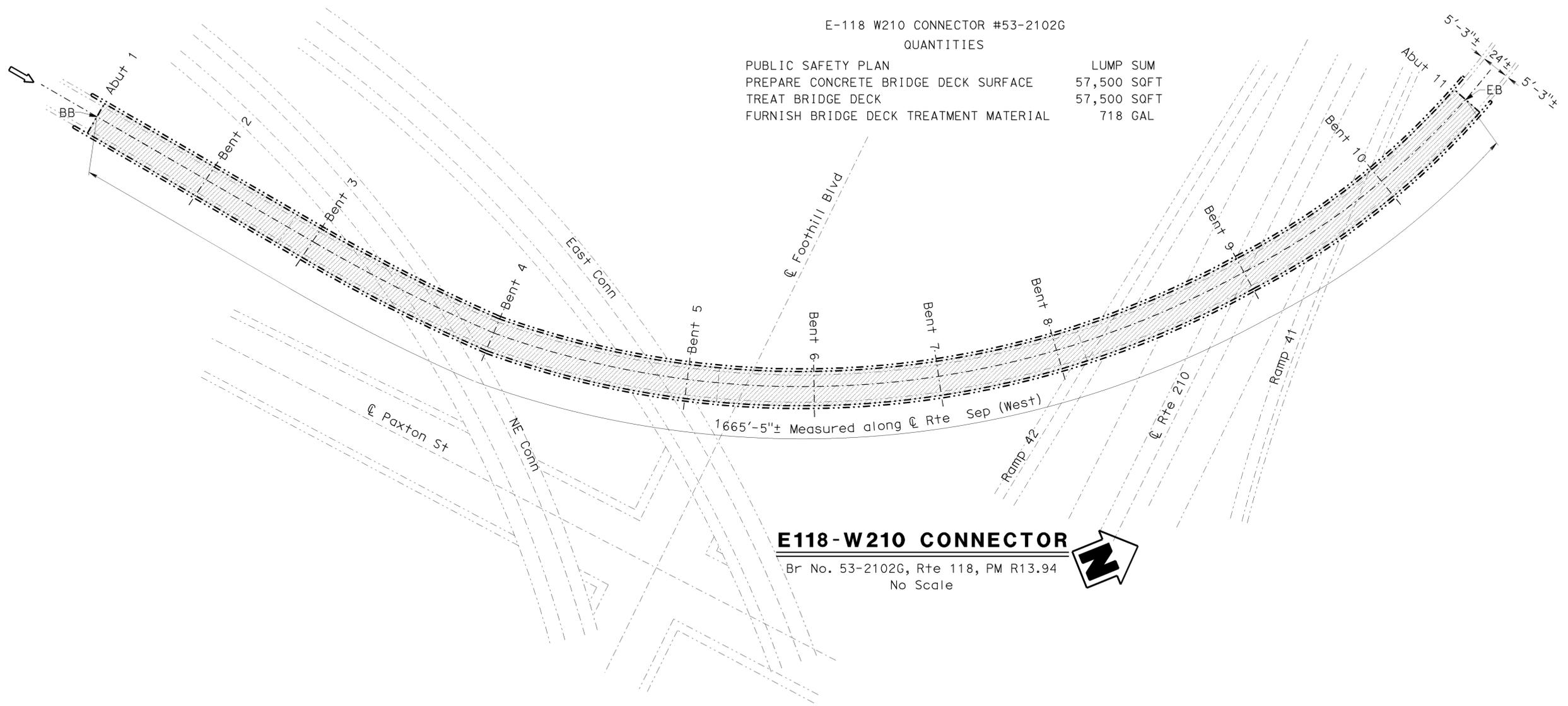
NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Mazin Ibrahim	CHECKED Hong Tien Tran	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 118,210,405 BRIDGES GENERAL PLAN NO. 9	
	DETAILS	BY Clayton Tom	CHECKED Mazin Ibrahim	LAYOUT	BY Clayton Tom			CHECKED Mazin Ibrahim		POST MILE
	QUANTITIES	BY Mazin Ibrahim	CHECKED Hong Tien Tran	SPECIFICATIONS	BY Kevin Ellingson			CHECKED Kevin Ellingson		PLANS AND SPECS COMPARED
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3489 PROJECT NUMBER & PHASE: 0713000446 1 CONTRACT NO.: 07-2W7704	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 04-30-14 05-14-14 05-28-14 09-03-14	SHEET 09 OF 15

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	118,210,405	Var	33	38
			09-03-14		
REGISTERED CIVIL ENGINEER			DATE		
11-17-14			PLANS APPROVAL DATE		
REGISTERED PROFESSIONAL ENGINEER MAZIN S. IBRAHIM No. C69896 Exp. 09/30/16 CIVIL STATE OF CALIFORNIA					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					

LEGEND:

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- ➔ Indicates direction of traffic.
- ▨ Indicates limits of prepare concrete bridge deck surface and treat bridge deck with high molecular weight methacrylate.



E-118 W210 CONNECTOR #53-2102G

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	57,500 SQFT
TREAT BRIDGE DECK	57,500 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	718 GAL

E118-W210 CONNECTOR

Br No. 53-2102G, Rte 118, PM R13.94
No Scale

NOTE:
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TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Mazin Ibrahim	CHECKED Hong Tien Tran	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	ROUTE 118,210,405 BRIDGES GENERAL PLAN NO. 10				
	DETAILS	BY Clayton Tom	CHECKED Mazin Ibrahim	LAYOUT	BY Clayton Tom		CHECKED Mazin Ibrahim		POST MILE			
	QUANTITIES	BY Mazin Ibrahim	CHECKED Hong Tien Tran	SPECIFICATIONS	BY Kevin Ellingson		CHECKED Kevin Ellingson		PLANS AND SPECS COMPARED	Varies		
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3489	PROJECT NUMBER & PHASE: 0713000446 1	CONTRACT NO.: 07-2W7704	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 10 OF 15

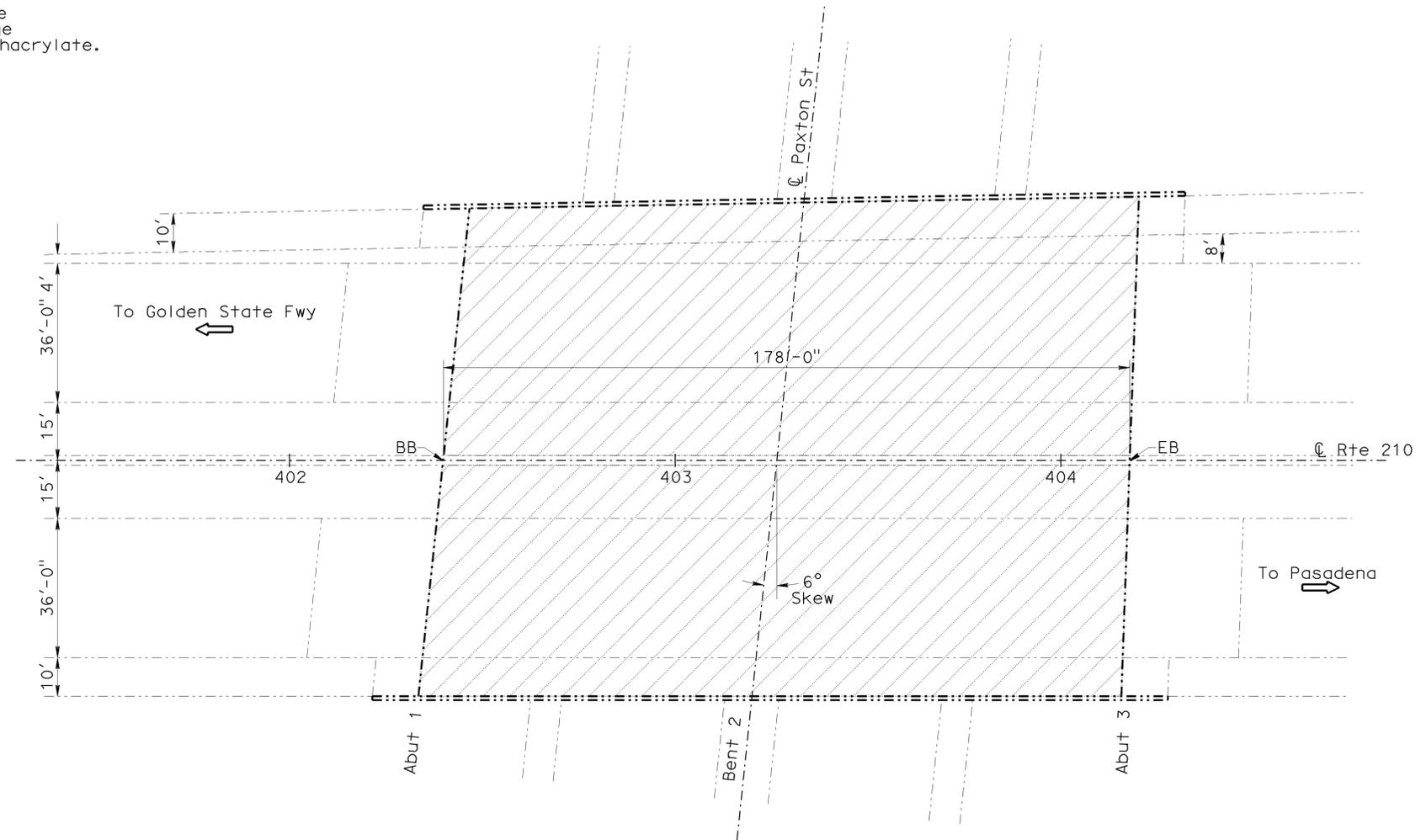
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	118,210,405	Var	34	38

REGISTERED CIVIL ENGINEER DATE 09-03-14
 11-17-14
 PLANS APPROVAL DATE
 No. C69896
 Exp. 09/30/16
 CIVIL
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LEGEND:

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PAXTON STREET UC
 Br No. 53-2115, Rte 210, PM R6.01
 1"=20'

PAXTON STREET UC #53-2115
 QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	22,800 SQFT
TREAT BRIDGE DECK	22,800 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	285 GAL

NOTE:
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.

TONY D. BRAKE
 DESIGN ENGINEER

DESIGN	BY Mazin Ibrahim	CHECKED Hong Tien Tran	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Clayton Tom	CHECKED Mazin Ibrahim	LAYOUT	BY Clayton Tom
QUANTITIES	BY Mazin Ibrahim	CHECKED Hong Tien Tran	SPECIFICATIONS	BY Kevin Ellingson

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	Various
POST MILE	Varies

ROUTE 118,210,405 BRIDGES
GENERAL PLAN NO. 11

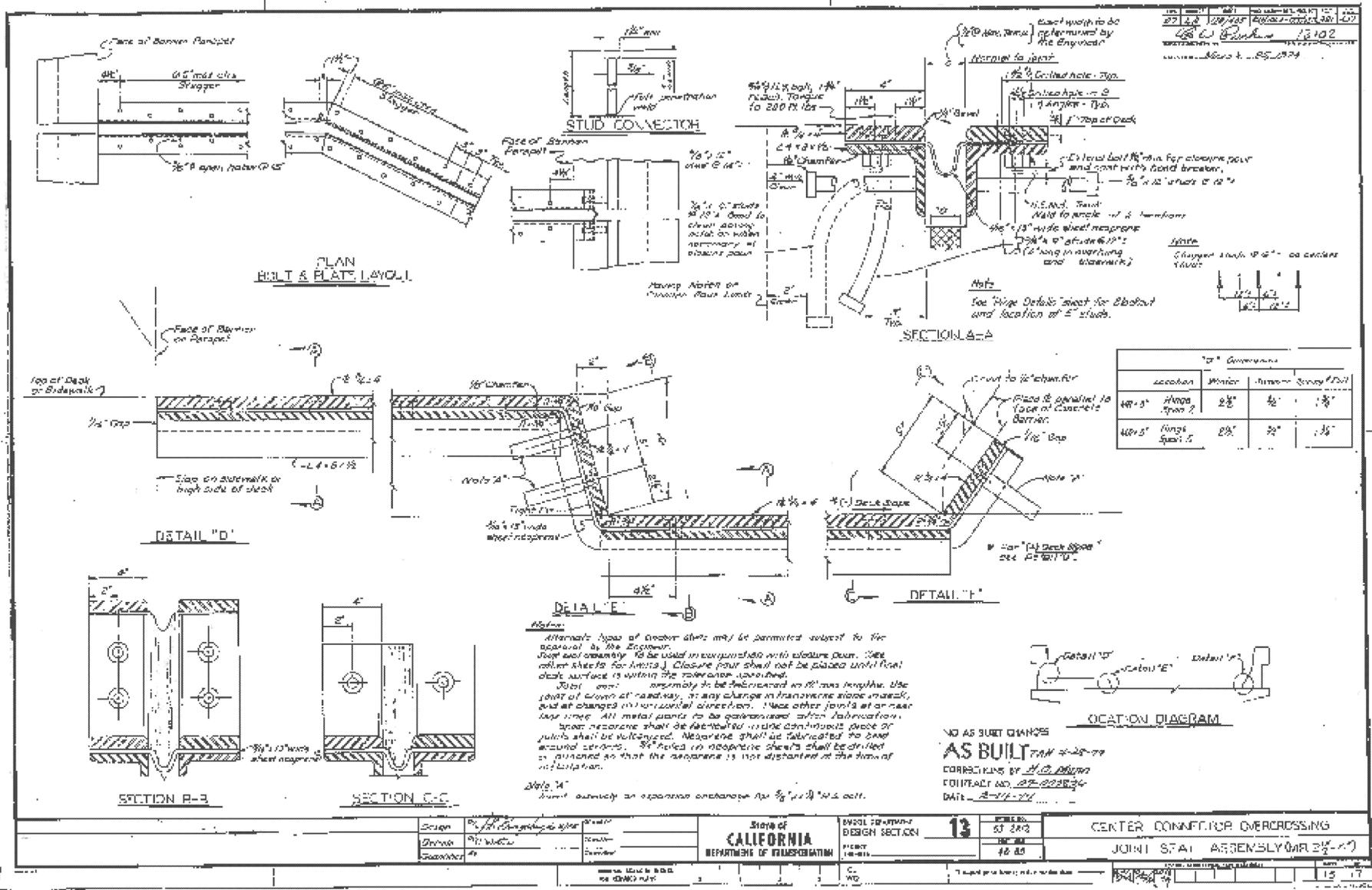
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

UNIT: 3489
 PROJECT NUMBER & PHASE: 0713000446 1 CONTRACT NO.: 07-2W7704

DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 11 OF 15
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	118,210,405	Var	35	38
			09-03-14	REGISTERED CIVIL ENGINEER DATE	
			11-17-14	PLANS APPROVAL DATE	
			REGISTERED PROFESSIONAL ENGINEER No. C69896 Exp. 09/30/16 CIVIL STATE OF CALIFORNIA		
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Caltrans now has a web site! To get to the web site, go to: http://www.dot.ca.gov					



AS BUILT PLANS
Contract No. 07-2W7704
Date Completed: 8-11-14

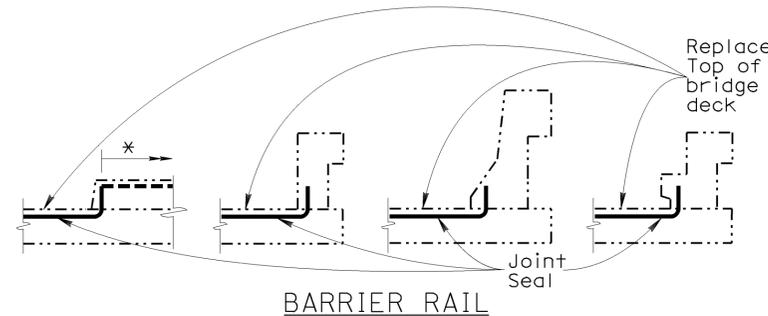
NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.

DESIGN BY: Mazin Ibrahim		CHECKED: Hong Tien Tran	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.: 53-2212F	FOR INFORMATIONAL USE ONLY ROUTE 118,210,405 BRIDGES JOINT SEAL ASSEMBLY (As-Built)	
DETAILS BY: Clayton Tom		CHECKED: Mazin Ibrahim			POST MILE: R9.83		
QUANTITIES BY: Mazin Ibrahim		CHECKED: Hong Tien Tran					
STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 2/4/05)		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 3489 PROJECT NUMBER & PHASE: 0713000446 1	CONTRACT NO.: 07-2W7704	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 12 OF 15

JOINT SEAL TABLE

BRIDGE NAME	BRIDGE NUMBER	JOINT SEAL LOCATION	MINIMUM "MR" (INCHES)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXP JOINT (INCHES)	APPROX JOINT LENGTH (ft)	CLEAN JOINT SEAL LENGTH (ft)
Limekiln Canyon Wash	53-2502K	At Abut 1	1 1/2	Yes	12	38	38
		At Abut 4	1 1/2	Yes	12	38	38
Haskell Avenue UC	53-2209	At Abut 1	1/2	No	6	156	156
		At Abut 2	1/2	No	6	167	167
Route 405 / 118 Separation	53-2211	At Backwall Abut 1	1/2	No	6	137	137
		At Abut 1	1 1/2	Yes	12	161	161
		At Abut 4	1 1/2	Yes	12	161	161
		At Backwall Abut 4	1/2	No	6	137	137
W118-S405 Connector OC	53-2212F	At Hinge Span 2	3*	Yes	12	39	39
		At Hinge Span 5	3*	Yes	12	39	39
W118-N5 Connector OC	53-2345F	At Abut 1	1 1/2	No	6	33	33
		At Abut 2	1 1/2	No	6	33	33
Laurel Canyon Blvd UC	53-2344L	At Abut 1	1	No	6	80	80
		At Abut 2	1	No	6	80	80
W210-S5 Connector Separation	53-1988F	At Abut 1	1	No	6	45	45
		At Abut 4	1	No	6	45	45
Yarnell Street UC	53-2017L	At Abut 1	1	No	6	65	65
		At Abut 2	1	No	6	69	69

* Remove and replace neoprene gland in existing strip seal assembly.



BARRIER RAIL

JOINT SEAL AT LOW SIDE OF DECK

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

* Extension of joint will be determined by the Engineer if necessary.

NOTES:

The following notes apply to JOINT SEAL TYPE A:

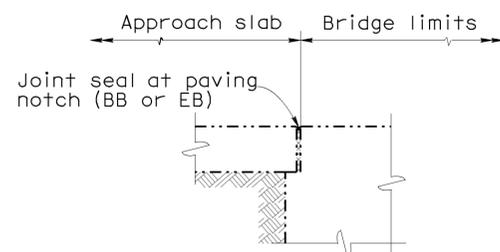
Install Joint Seal (MR = 1/2") or Silicone Joint Seal 3" up into curb or barrier rail on the low side of the deck where deck joint aligns with curb or barrier rail joint.

For details not shown see Standard Plan B6-21.

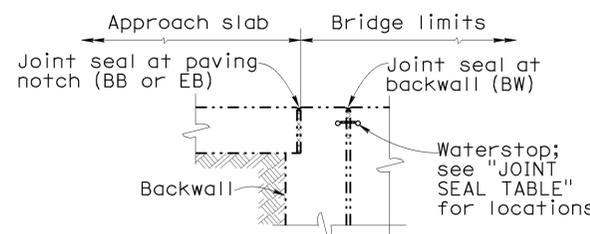
The following notes apply to JOINT SEAL TYPE B:

- 1) Seal must satisfy both minimum Movement Rating (MR) and minimum W1 requirements.
- 2) Minimum W1 is the calculated maximum width of the joint based on field measurements. After the joints have been cleaned, minimum W1 is to be recalculated by the Engineer.
- 3) W1 shall be the smaller of the values determined as follows:
 - A) 0.85 times the manufacturer's designed minimum uncompressed width of the seal.
 - B) The width of the seal on the third successive test cycle of the pressure deflection test, when compressed to an average pressure of 3.0 PSI.
- 4) Bend Type B joint seal 6 inches up into curb or rail on the low side of the deck where deck joint matches curb or rail joint.

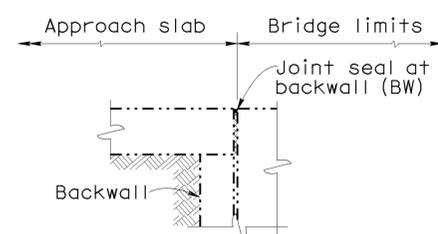
For details not shown see Standard Plan B6-21.



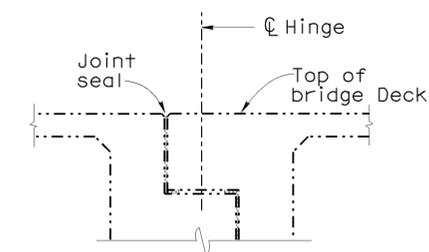
DIAPHRAGM ABUTMENT



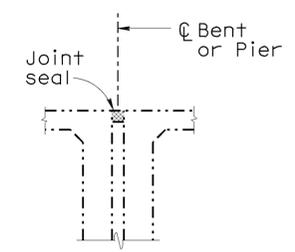
ABUTMENT WITH BACKWALL AND PAVING NOTCH



ABUTMENT WITH BACKWALL



HINGE



BENT OR PIER

JOINT SEAL LOCATION

Abutment joint is not required with AC roadway pavement transverse contact joint.

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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	118,210,405	Var	36	38

09-03-14
REGISTERED CIVIL ENGINEER DATE

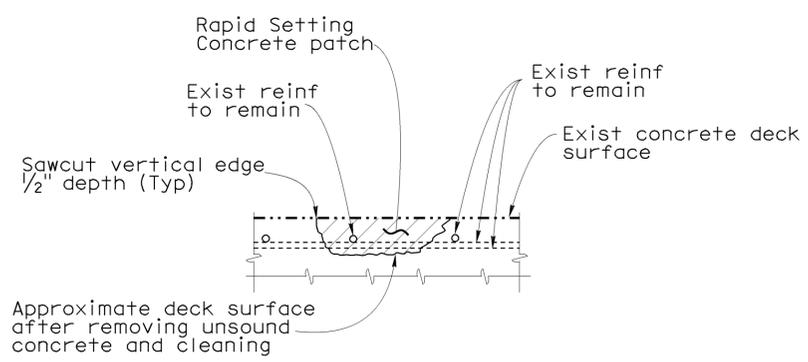
11-17-14
PLANS APPROVAL DATE

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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">DESIGN</td> <td style="width: 30%;">BY Mazin Ibrahim</td> <td style="width: 30%;">CHECKED Hong Tien Tran</td> </tr> <tr> <td>DETAILS</td> <td>BY Clayton Tom</td> <td>CHECKED Mazin Ibrahim</td> </tr> <tr> <td>QUANTITIES</td> <td>BY Mazin Ibrahim</td> <td>CHECKED Hong Tien Tran</td> </tr> </table>	DESIGN	BY Mazin Ibrahim	CHECKED Hong Tien Tran	DETAILS	BY Clayton Tom	CHECKED Mazin Ibrahim	QUANTITIES	BY Mazin Ibrahim	CHECKED Hong Tien Tran	<p>STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION</p>	<p>DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>BRIDGE NO.</td> <td>Various</td> </tr> <tr> <td>POST MILE</td> <td>Varies</td> </tr> </table>	BRIDGE NO.	Various	POST MILE	Varies	<p>ROUTE 118,210,405 BRIDGES MISCELLANEOUS DETAILS NO. 1</p>
DESIGN	BY Mazin Ibrahim	CHECKED Hong Tien Tran															
DETAILS	BY Clayton Tom	CHECKED Mazin Ibrahim															
QUANTITIES	BY Mazin Ibrahim	CHECKED Hong Tien Tran															
BRIDGE NO.	Various																
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STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 09-01-10)		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3489 PROJECT NUMBER & PHASE: 0713000446 1 CONTRACT NO.: 07-2W7704	DISREGARD PRINTS BEARING EARLIER REVISION DATES	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="4">REVISION DATES</th> <th>SHEET</th> <th>OF</th> </tr> <tr> <td style="width: 25%;">04-30-14</td> <td style="width: 25%;">05-18-14</td> <td style="width: 25%;">08-28-14</td> <td style="width: 25%;">09-03-14</td> <td style="width: 10%;">13</td> <td style="width: 10%;">15</td> </tr> </table>	REVISION DATES				SHEET	OF	04-30-14	05-18-14	08-28-14	09-03-14	13	15
REVISION DATES				SHEET	OF												
04-30-14	05-18-14	08-28-14	09-03-14	13	15												

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	118,210,405	Var	37	38

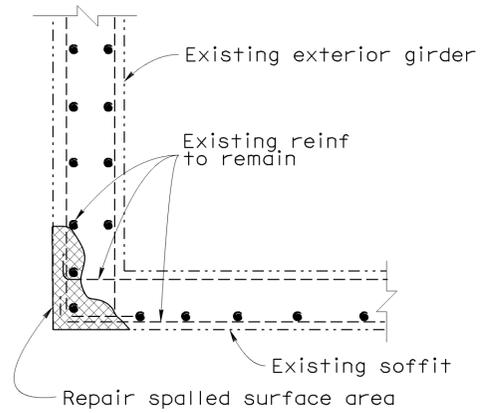
REGISTERED CIVIL ENGINEER	DATE 09-03-14
PLANS APPROVAL DATE 11-17-14	
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DECK DAMAGE REPAIR DETAIL

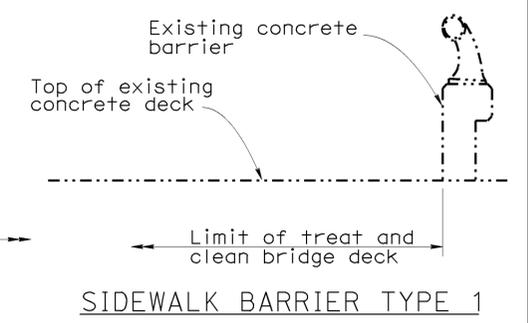
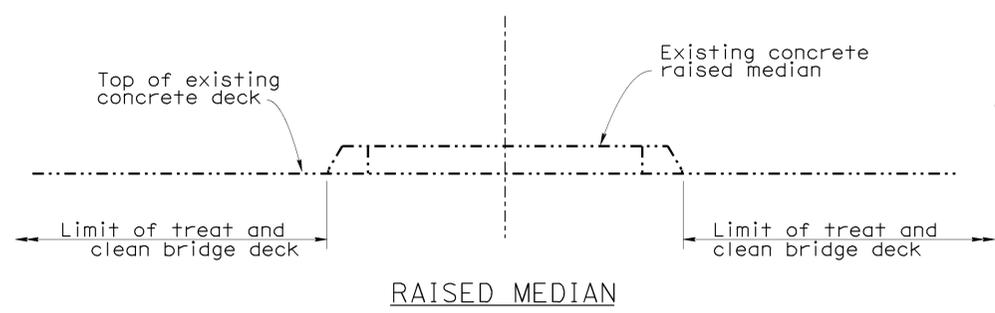
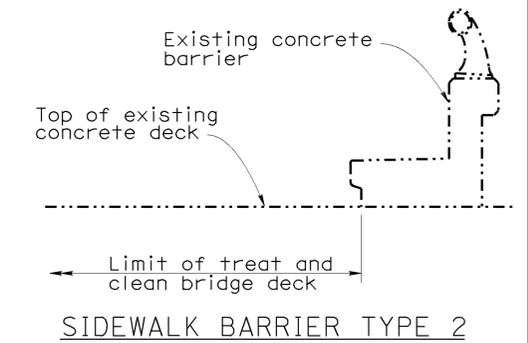
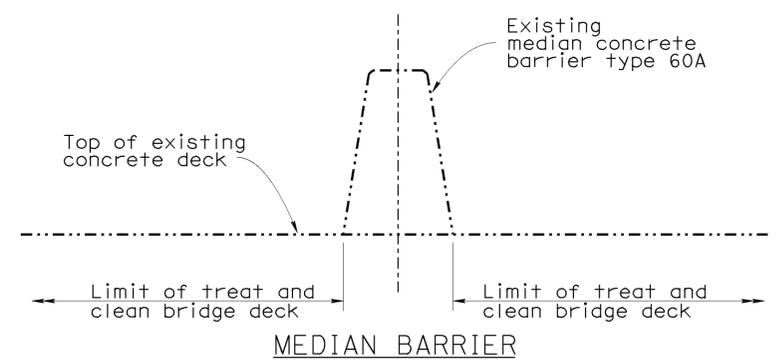
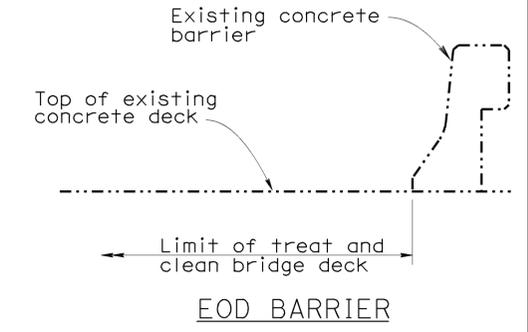
Location will be determined by the Engineer. Reinforcement may be encountered during deck concrete removal and is to remain undamaged.

- DECK REPAIR NOTES:
- Existing reinforcement shall be protected in place during unsound concrete removal and patching operations.
 - It is responsibility of the Contractor to repair any reinforcement that is accidentally cut by saw cutting operations.
 - When existing transverse reinforcement is exposed in the deck surface, saw cutting may be waived with the approval of the Engineer.
 - The saw cut depth shall not exceed 3/4 inch or the concrete cover over the top steel reinforcing bars, whichever is less.
 - Remove unsound Portland Cement concrete and unsound concrete patches to expose sound, hard concrete substrate. Replace original deck surface with rapid setting concrete patch.



SPALLED SURFACE AREA DETAIL

Location will be determined by the Engineer. Reinforcement may be encountered during deck concrete removal and is to remain undamaged.



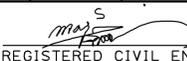
TYPICAL LIMITS OF DECK WORK

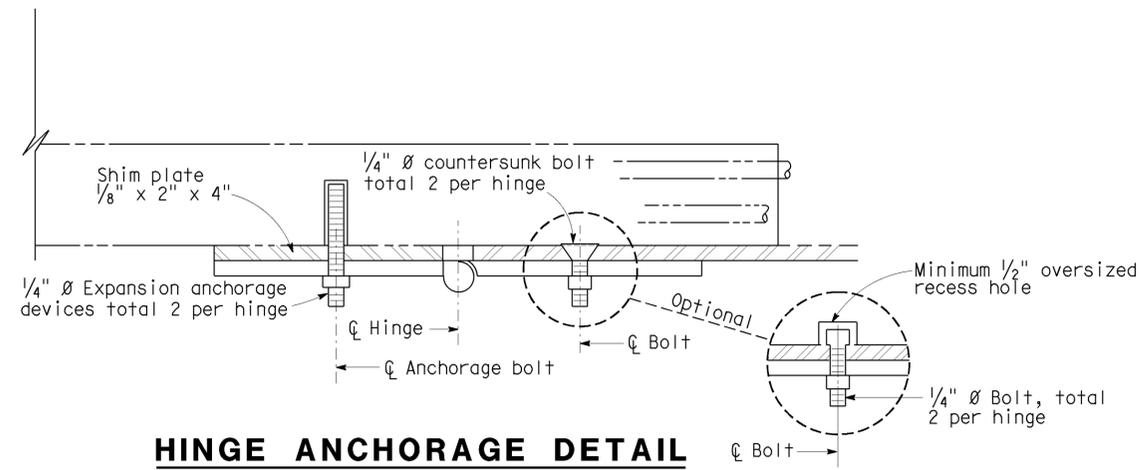
NO SCALE

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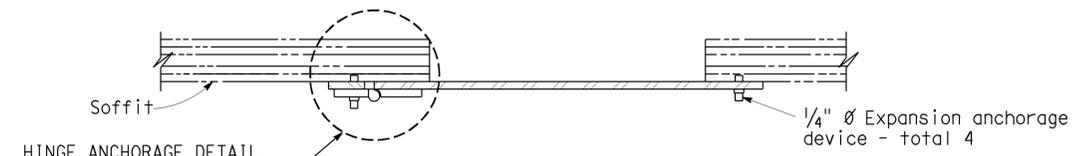
STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY Mazin Ibrahim	CHECKED Hong Tien Tran	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTE 118,210,405 BRIDGES					
	DETAILS	BY Clayton Tom	CHECKED Mazin Ibrahim			Various						
	QUANTITIES	BY Mazin Ibrahim	CHECKED Hong Tien Tran			Varies						
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					UNIT: 3489	PROJECT NUMBER & PHASE: 0713000446 1		CONTRACT NO.: 07-2W7704	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 14	OF 15

06/3/38
 TIME PLOTTED =>
 23-OCT-2014
 8:11:26:83
 DATE PLOTTED =>

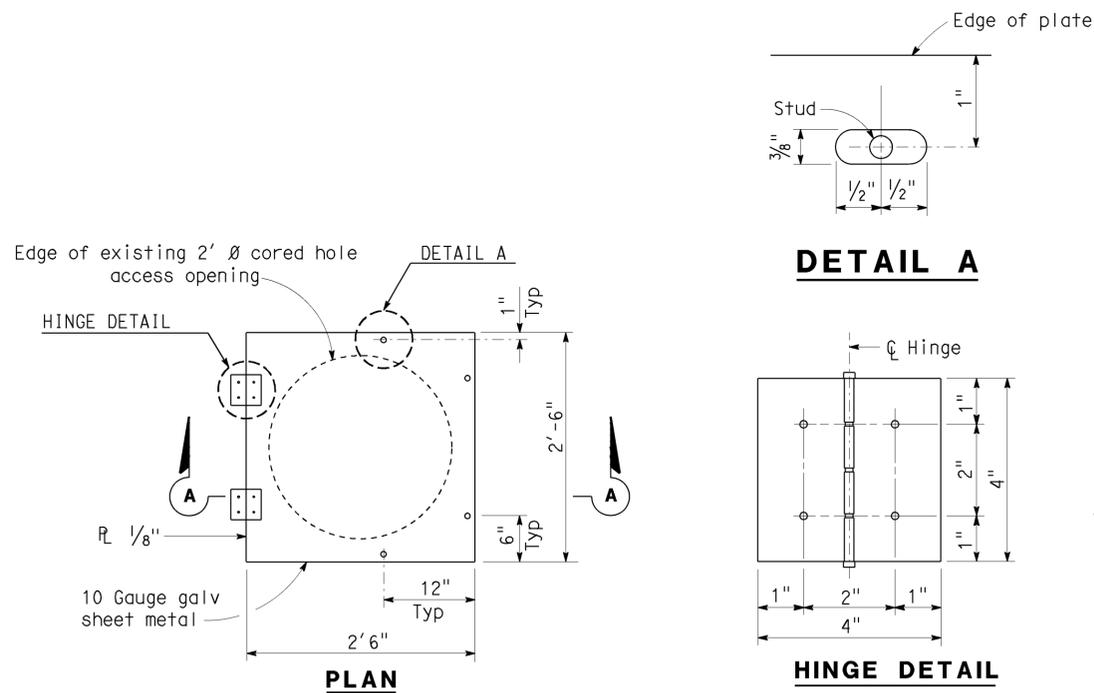
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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HINGE ANCHORAGE DETAIL



SECTION A-A



ACCESS OPENING HATCH DETAIL

NOTES:

1. Non-removable pin in hinge.
2. Hinge assembly to be galvanized, brass or stainless steel.
3. Use thread locking system for all hinge nuts.
4. Hinge assembly to be minimum 1/8" thick.

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Note: Soffit access door opening direction to be determined by the Engineer

DESIGN	BY Mazin Ibrahim	CHECKED Hong Tien Tran
DETAILS	BY Clayton Tom	CHECKED Ramesh Patel
QUANTITIES	BY Mazin Ibrahim	CHECKED Hong Tien Tran

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	Various
POST MILE	Varies

ROUTE 118,210,405 BRIDGES
ACCESS OPENING HATCH, SOFFIT DETAILS