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STRUCTURE PLANS

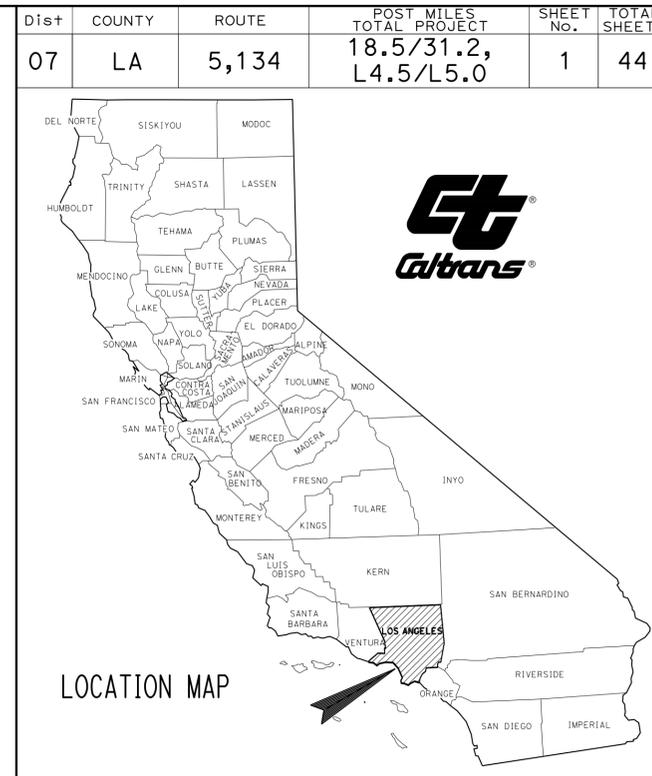
21-44	ROUTE 5 & 134 BRIDGES
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THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE BID BOOK AND SPECIAL PROVISIONS BOOK.

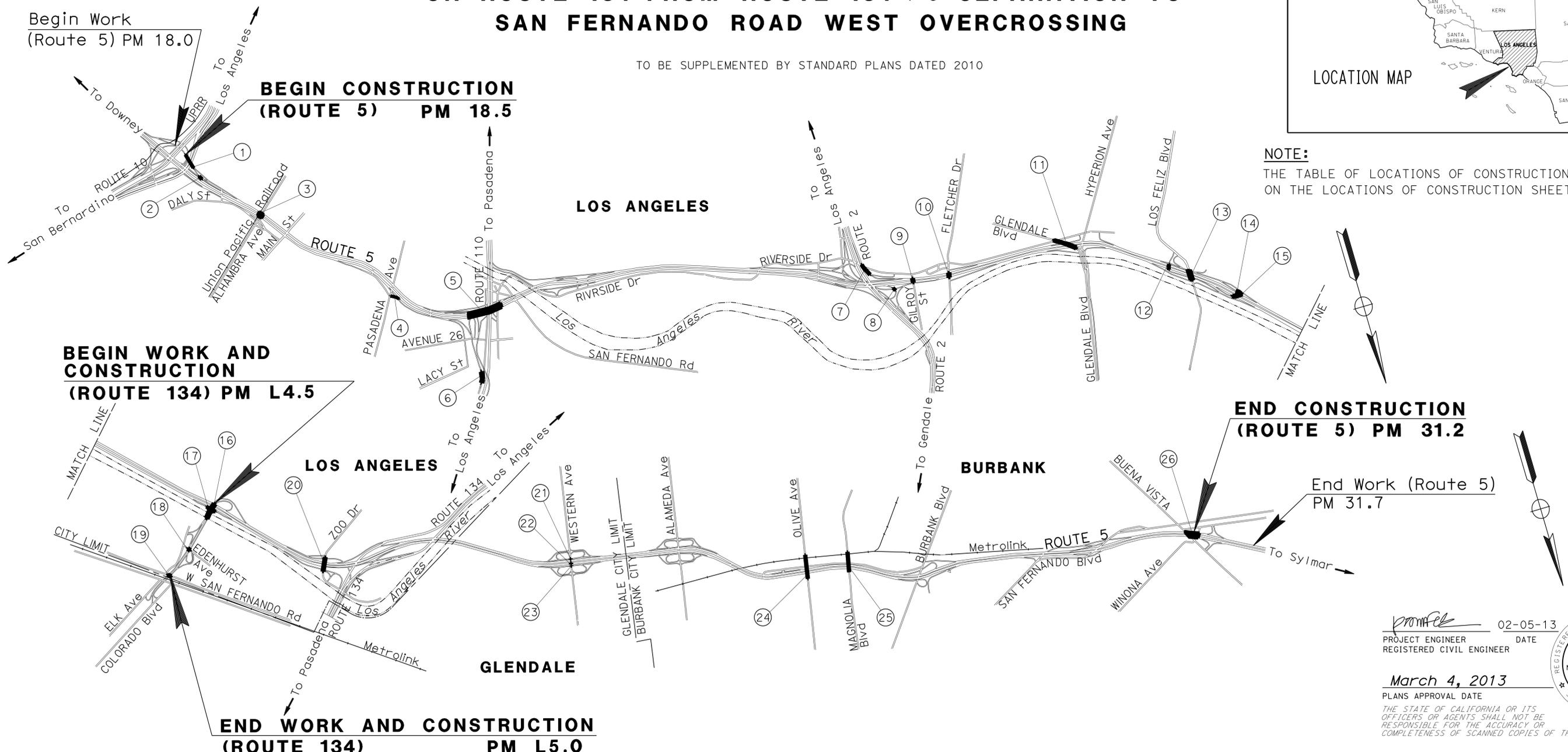
STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**PROJECT PLANS FOR CONSTRUCTION ON STATE HIGHWAY**  
**IN LOS ANGELES COUNTY**  
**IN LOS ANGELES, GLENDALE, AND BURBANK**  
**ON ROUTE 5 FROM S5 - E10 CONNECTOR OVERHEAD TO BUENA VISTA - WINONA UNDERCROSSING AND**  
**ON ROUTE 134 FROM ROUTE 134 / 5 SEPARATION TO SAN FERNANDO ROAD WEST OVERCROSSING**

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

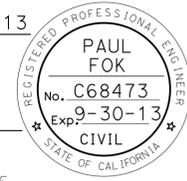


**NOTE:**  
THE TABLE OF LOCATIONS OF CONSTRUCTION IS SHOWN ON THE LOCATIONS OF CONSTRUCTION SHEET.



PROJECT MANAGER	CHRISTIAN SAM
DESIGN ENGINEER	PAUL W FOK

*promfel* 02-05-13  
PROJECT ENGINEER DATE  
REGISTERED CIVIL ENGINEER  
**March 4, 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.



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

NO SCALE

CONTRACT No.	<b>07-1W3304</b>
PROJECT ID	<b>0700021243</b>

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** MAINTENANCE ENGINEERING

REVISOR BY  
 DATE REVISED

PAUL W. FOK  
 SHAFIQUL ISLAM

CALCULATED-DESIGNED BY  
 CHECKED BY

FUNCTIONAL SUPERVISOR  
 SHAFIQUL ISLAM

### LOCATIONS OF CONSTRUCTION

Loc No. (#)	ROUTE	PM	NAME OF BRIDGE	BRIDGE NUMBER
1	5	18.53	S5-E10 CONNECTOR OH	53-1332F
2	5	18.62	S5-E10 CONNECTOR OC	53-1317F
3	5	18.96	ALHAMBRA AVENUE OH	53-0368
4	5	20.00	PASADENA AVENUE ON-RAMP OC	53-1404S
5	5	20.31	ELYSIAN VIADUCT	53-1424
6	5	20.33	ARROYO SECO CHANNEL	53-1456H
7	5	22.48	RIVERSIDE DRIVE UC	53-0559F
8	5	22.63	NW CONNECTOR SEPARATION	53-0562G
9	5	22.78	GILROY STREET UC	53-0164
10	5	22.97	FLETCHER DRIVE UC	53-1084
11	5	23.66	GLENDALE Blvd OC	53-1068
12	5	24.21	LOS FELIZ Blvd ON-RAMP OC	53-1096S
13	5	24.33	LOS FELIZ Blvd ON-RAMP OC	53-1070
14	5	24.60	GRIFFITH PARK OC	53-1180K
15	5	24.61	GRIFFITH PARK OFF-RAMP OC	53-1181S
16	134	L4.55	ROUTE 134/5 SEPARATION	53-1073E
17	134	L4.60	LOS ANGELES RIVER	53-1072
18	134	L4.83	EDENHURST AVENUE UC	53-1108
19	134	L5.03	SAN FERNANDO ROAD W OC	53-1107
20	5	26.47	ZOO DRIVE OC	53-1173
21	5	27.84	WESTERN AVENUE UC	53-1079K
22	5	27.84	WESTERN AVENUE UC	53-1079R
23	5	27.84	WESTERN AVENUE UC	53-1079S
24	5	29.16	OLIVE AVENUE OC	53-1087
25	5	29.39	MAGNOLIA Blvd OC	53-1088
26	5	31.23	BUENA VISTA-WINONA UC	53-1110

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,134	18.5/31.2, L4.5/L5.0	2	44

*Paul Fok* 2-5-13  
 REGISTERED CIVIL ENGINEER DATE  
 3-4-13  
 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.

### LOCATIONS OF CONSTRUCTION

LC-1



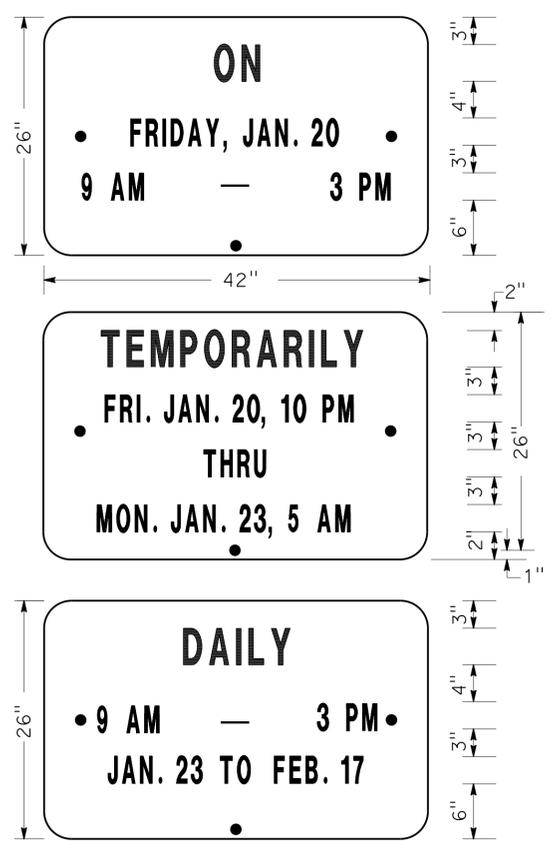
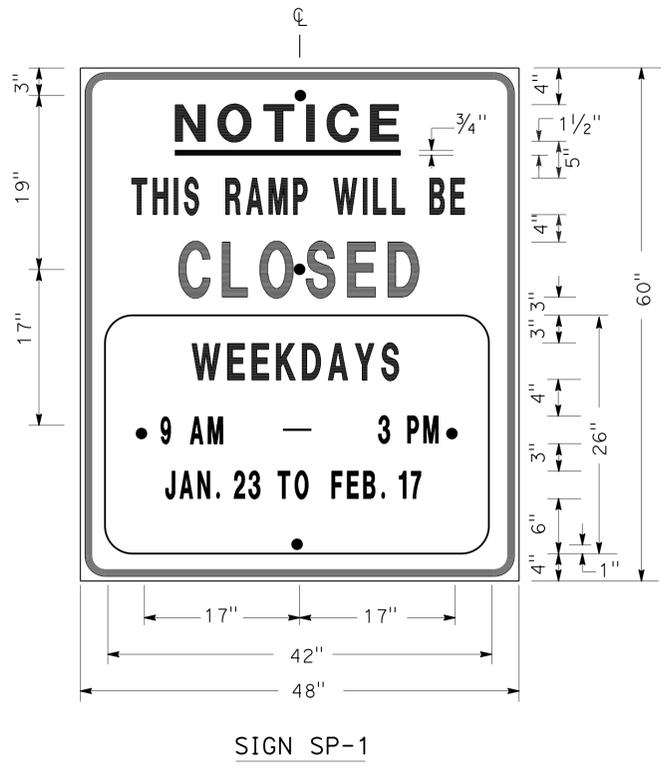


Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,134	18.5/31.2, L4.5/L5.0	4	44

REGISTERED CIVIL ENGINEER DATE: 06-04-12  
 3-4-13  
 PLANS APPROVAL DATE

MARTIN OREGEL  
 No. C56816  
 Exp. 6-30-13  
 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.

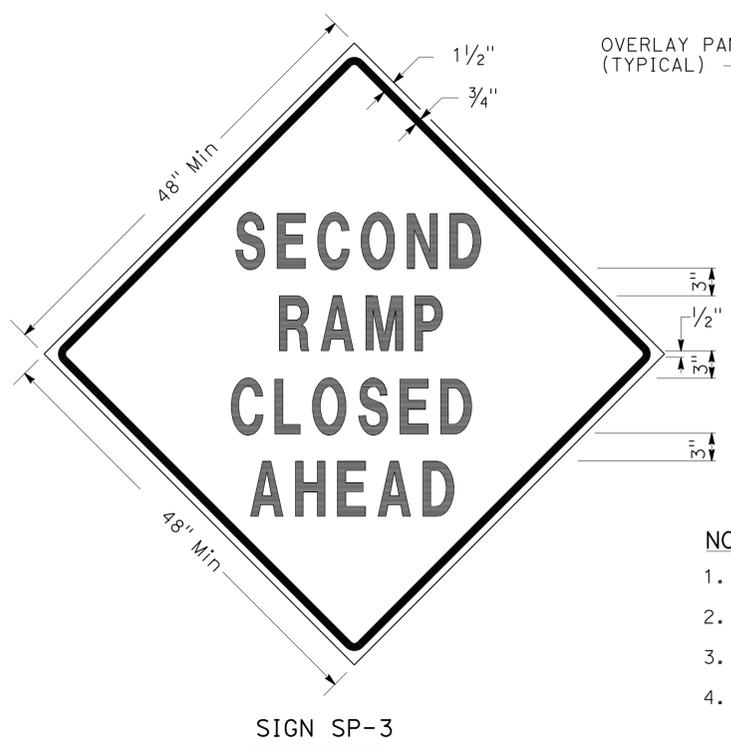


- NOTES:**(SIGN SP-1)
- SIGNS SHALL HAVE ORANGE RETROREFLECTORIZED BACKGROUND WITH BLACK BORDER AND LETTERS.
  - BOLT HOLES SHALL BE 3/8" DIAMETER.
  - BASE MATERIAL SHALL BE ALUMINUM (MINIMUM 0.06").
  - SIGNS SHALL BE MOUNTED WITH BOTTOMS OF SIGNS A MINIMUM OF 6' ABOVE GROUND.

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

\* CONDENSED SPACING IF NECESSARY

**SPECIAL ADVANCE NOTICE PUBLICITY SIGN**



- NOTES:** (SIGNS SP-3 & SP-5)
- LETTERS - 6" SERIES D.
  - LETTERS AND BORDERS - BLACK ON RETROREFLECTORIZED ORANGE BACKGROUND.
  - BASE MATERIAL SHALL BE ALUMINUM (MINIMUM 0.06").
  - SIGNS SHALL BE MOUNTED WITH BOTTOMS OF SIGNS A MINIMUM OF 6' ABOVE GROUND.

**SPECIAL SIGN FOR EXIT RAMP CLOSURES**



- NOTES:** (SIGN SP-4)
- LETTERS - 6" SERIES C.
  - LETTERS AND BORDERS - BLACK ON RETROREFLECTORIZED WHITE BACKGROUND.
  - BASE MATERIAL SHALL BE ALUMINUM (MINIMUM 0.06").
  - SIGNS SHALL BE PLACED AT RAMP ENTRANCES IN ADDITION TO SIGNS POSTED IN ACCORDANCE WITH TCS SHEET

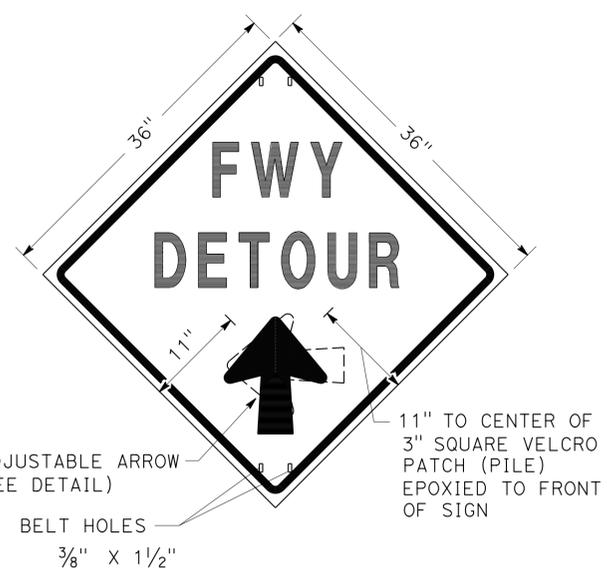
**SPECIAL SIGN FOR ENTRANCE RAMP CLOSURES**

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

SHEET 1 OF 2  
 NO SCALE

THD-1

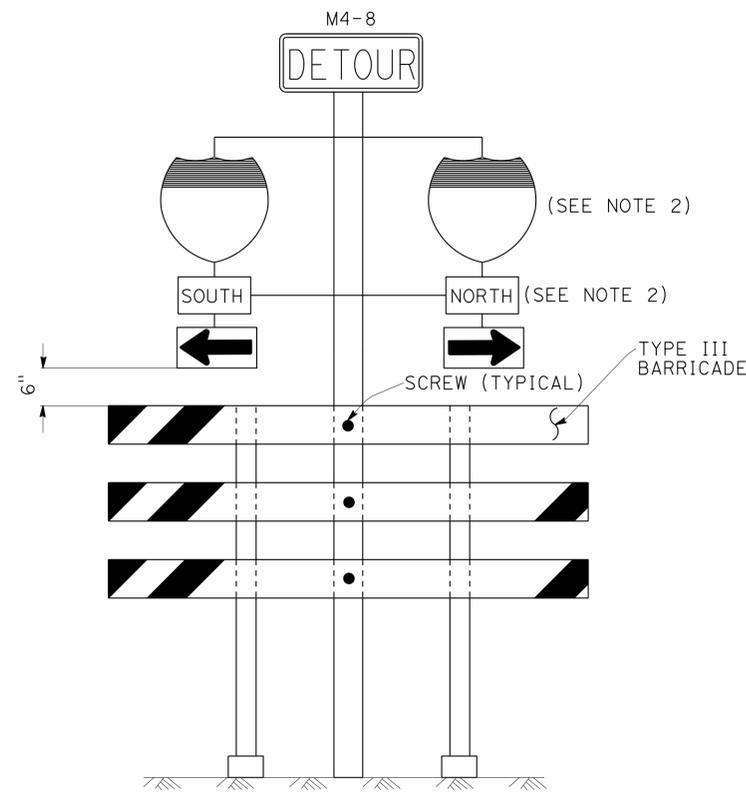
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,134	18.5/31.2, L4.5/L5.0	5	44
<i>Martin Oregel</i> REGISTERED CIVIL ENGINEER DATE 06-04-12			No. C56816 Exp. 6-30-13 CIVIL		
3-4-13			PLANS APPROVAL DATE		
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					



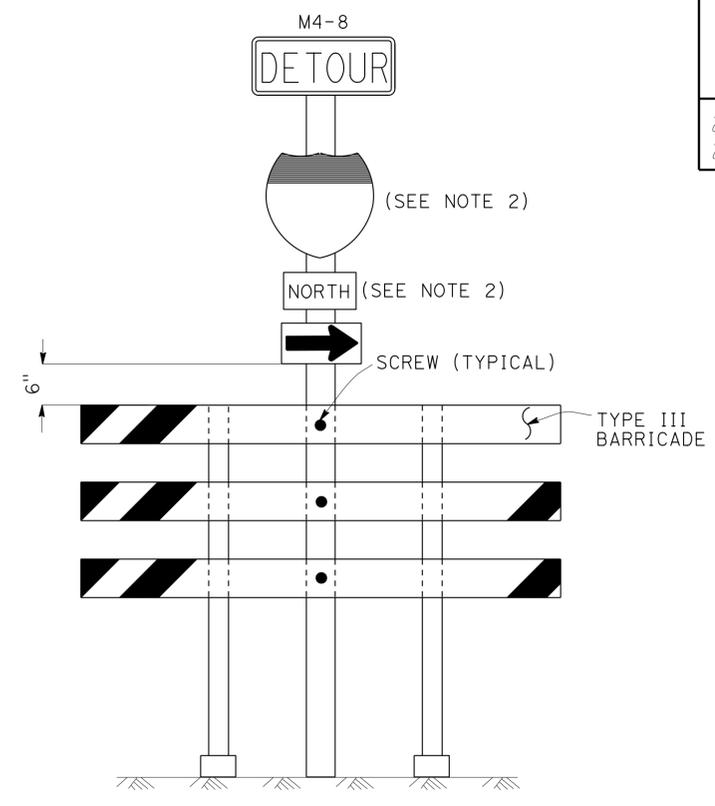
SIGN SP-2

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

**ABBREVIATION**  
 (CA) CALIFORNIA CODE



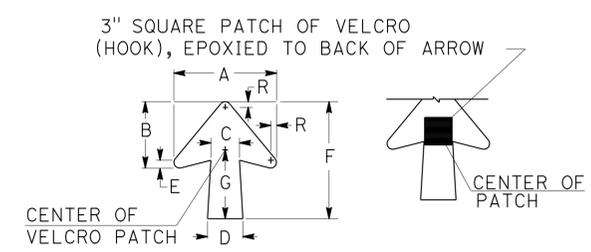
SIGN SP-6 (SEE NOTE 1)



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 SHIELD [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

DIMENSIONS							
A	B	C	D	E	F	G	R
11 1/4"	7 1/4"	3 1/8"	4"	7/8"	13"	7 1/2"	5/8"

SPECIAL PORTABLE FREEWAY DETOUR SIGN

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

SHEET 2 OF 2  
 NO SCALE

THD-2

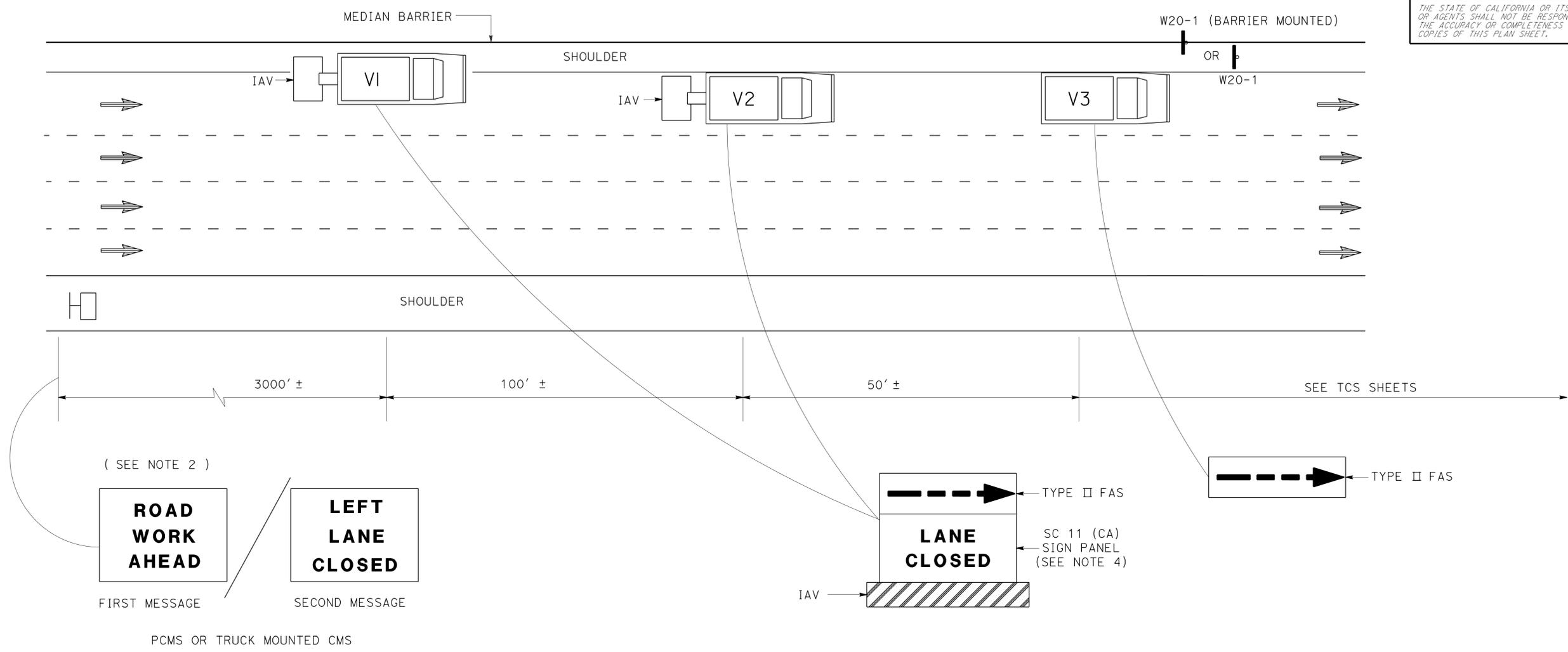
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 DTIC  
 FUNCTIONAL SUPERVISOR: MARTIN OREGEL  
 CHECKED BY: JOCELYN C CHIANG  
 REVISIONS: JC 7/10  
 DESIGNED BY: ALBERT K YU

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,134	18.5/31.2, L4.5/L5.0	6	44

REGISTERED CIVIL ENGINEER DATE 06-04-12  
 3-4-13  
 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  
 MARTIN OREGEL  
 No. C56816  
 Exp. 6-30-13  
 CIVIL  
 STATE OF CALIFORNIA



**NOTES:**

1. LANE CLOSURES SHALL NOT BE PLACED ON CREST VERTICAL CURVES OR ON HORIZONTAL CURVES.
2. PCMS SHALL BE ACTIVATED PRIOR TO TRAFFIC CONTROL ACTIVITIES ON THE LANE.
3. A MINIMUM SIGHT DISTANCE OF 1500' SHALL BE PROVIDED IN ADVANCE OF PCMS.
4. VEHICLE-MOUNTED SIGN PANELS SHALL 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 VEHICLE
- V3 WORK/APPLICATION VEHICLE
- PCMS PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
- DIRECTION OF TRAVEL
- ▬ CONSTRUCTION AREA SIGN

**ABBREVIATIONS**

- FAS FLASHING ARROW SIGN
- IAV IMPACT ATTENUATOR VEHICLE
- CMS CHANGEABLE MESSAGE SIGN
- PCMS PORTABLE CHANGEABLE MESSAGE SIGN
- (CA) CALIFORNIA CODE

**TRAFFIC HANDLING DETAILS**  
**TRAFFIC CONTROL SYSTEM**  
**FOR MEDIAN SHOULDERS LESS THAN 8 FEET**  
 NO SCALE

**THD-3**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 Caltrans®  
 FUNCTIONAL SUPERVISOR  
 MARTIN OREGEL  
 DTM

REVISIONS:  
 REVISED BY: JC  
 DATE REVISED: 7/10  
 CHECKED BY: ALBERT K YU, JOCELYN C CHIANG

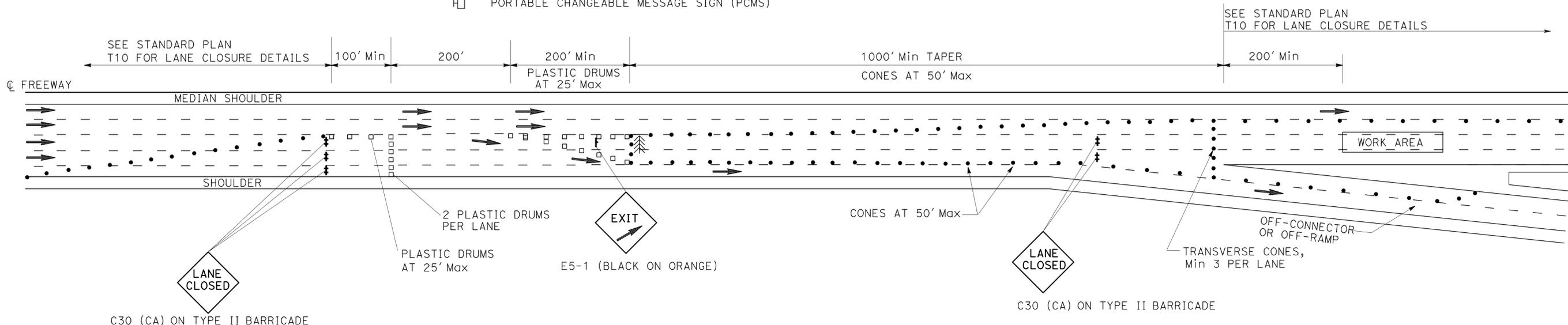
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,134	18.5/31.2, L4.5/L5.0	7	44
REGISTERED CIVIL ENGINEER <i>Martin Oregel</i> DATE 06-04-12			REGISTERED PROFESSIONAL ENGINEER <b>MARTIN OREGEL</b> No. C56816 Exp. 6-30-13 CIVIL		
PLANS APPROVAL DATE 3-4-13			THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.		

**LEGEND**

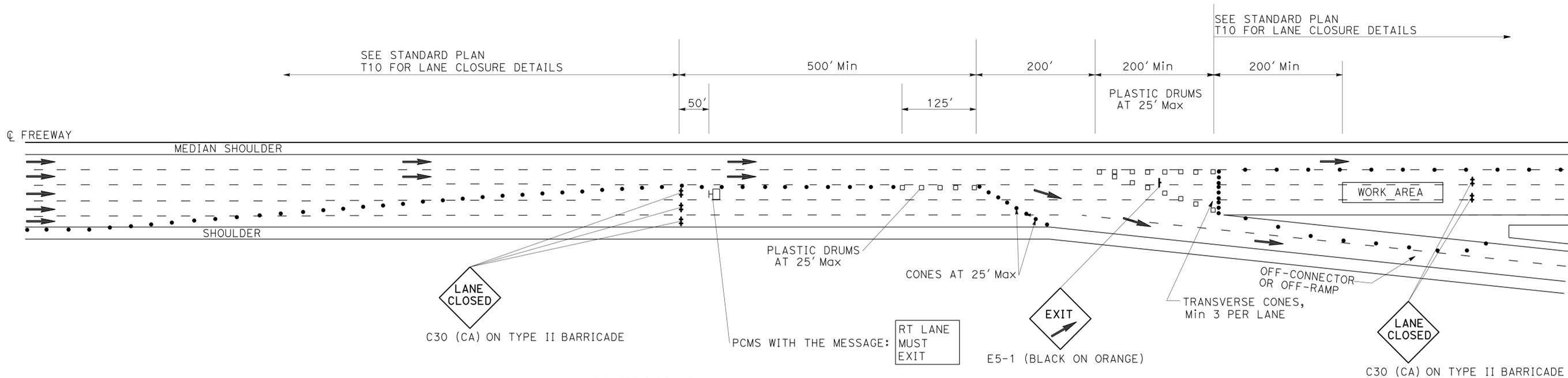
- CONE
- TRAFFIC PLASTIC DRUM
- ⚡ FLASHING ARROW SIGN
- † PORTABLE SIGN
- ➔ DIRECTION OF TRAVEL
- ⊠ PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)

**ABBREVIATIONS**

(CA) CALIFORNIA CODE



**OPTION 1**



**OPTION 2**

**TRAFFIC HANDLING DETAILS  
TRAFFIC CONTROL SYSTEM  
FOR SLIP-RAMP AT  
OFF-CONNECTOR OR OFF-RAMP  
NO SCALE**

**THD-4**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 DT  
 FUNCTIONAL SUPERVISOR: MARTIN OREGEL  
 CHECKED BY: JOCELYN C CHIANG  
 DESIGNED BY: ALBERT K YU  
 REVISIONS: JC 7/10  
 BORDER LAST REVISED 7/2/2010

USERNAME => s116260  
DGN FILE => 07-1w3301\_0007(me004).dgn

RELATIVE BORDER SCALE IS IN INCHES  
0 1 2 3

UNIT 1887

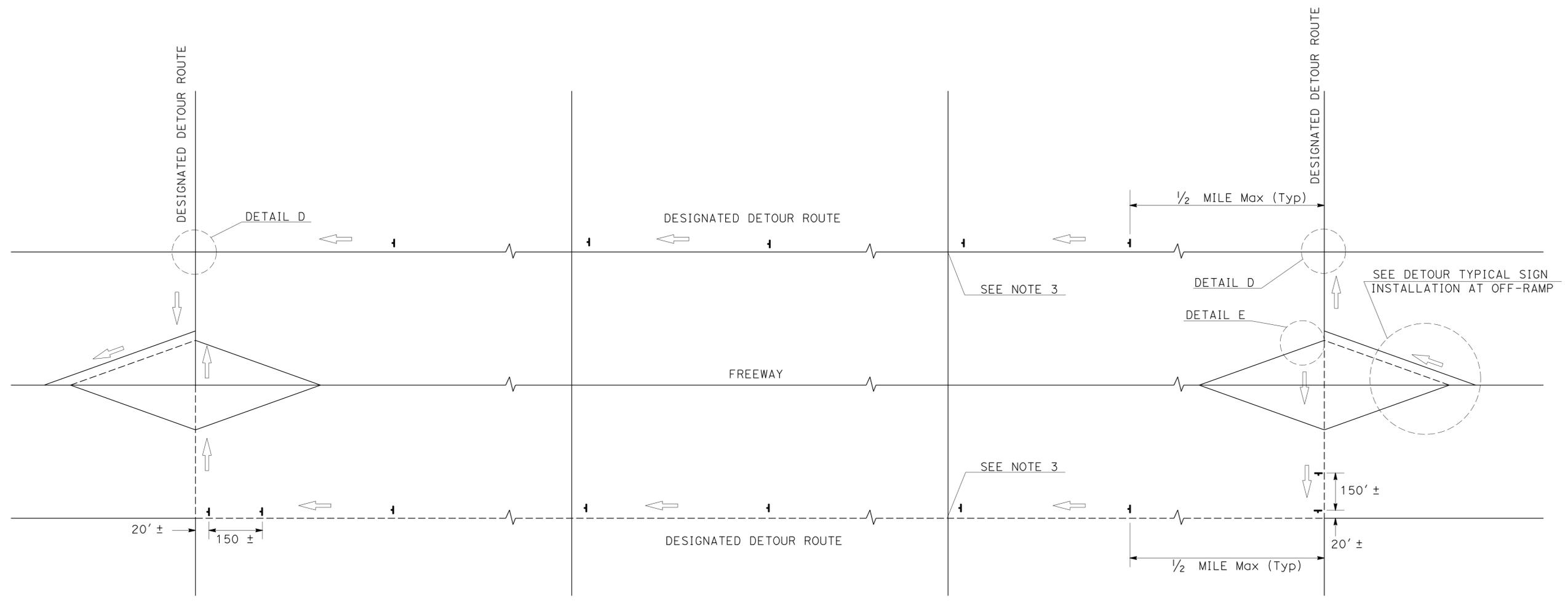
PROJECT NUMBER & PHASE 07000212431

LAST REVISION DATE PLOTTED => 01-MAR-2013  
 06-04-12 TIME PLOTTED => 07:23

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,134	18.5/31.2, L4.5/L5.0	8	44
<i>Martin Oregel</i> 06-04-12 REGISTERED CIVIL ENGINEER DATE			3-4-13 PLANS APPROVAL DATE		
REGISTERED PROFESSIONAL ENGINEER No. C56816 Exp. 6-30-13 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.		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** DTM

FUNCTIONAL SUPERVISOR: MARTIN OREGEL  
 CHECKED BY: JOCELYN C CHIANG  
 DESIGNED BY: ALBERT K YU  
 REVISOR: JC  
 DATE: 7/10



**TYPICAL DETOUR SIGN INSTALLATION ALONG DESIGNATED DETOUR ROUTE**

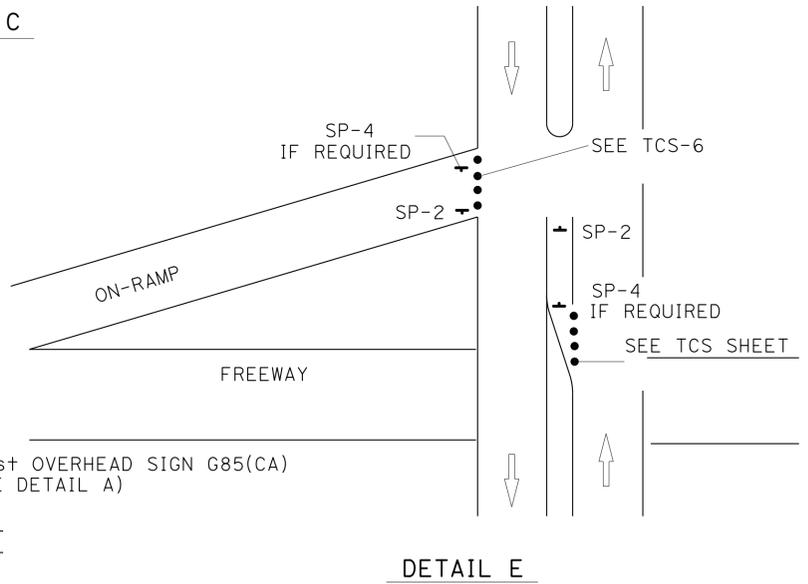
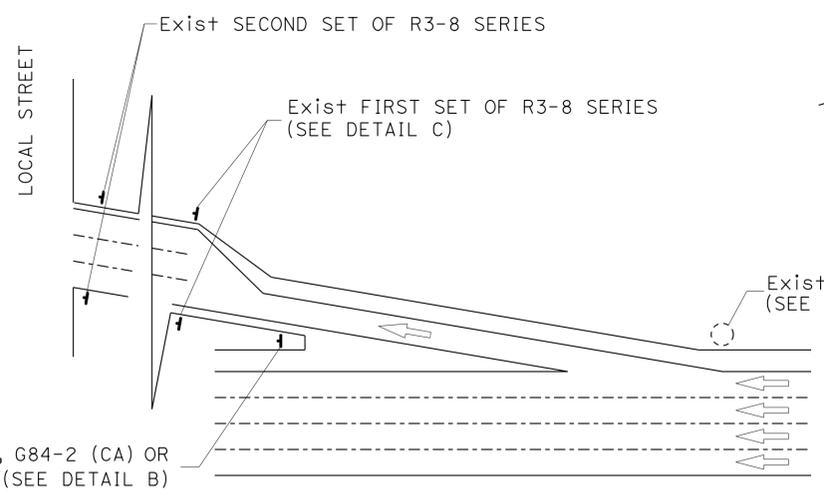
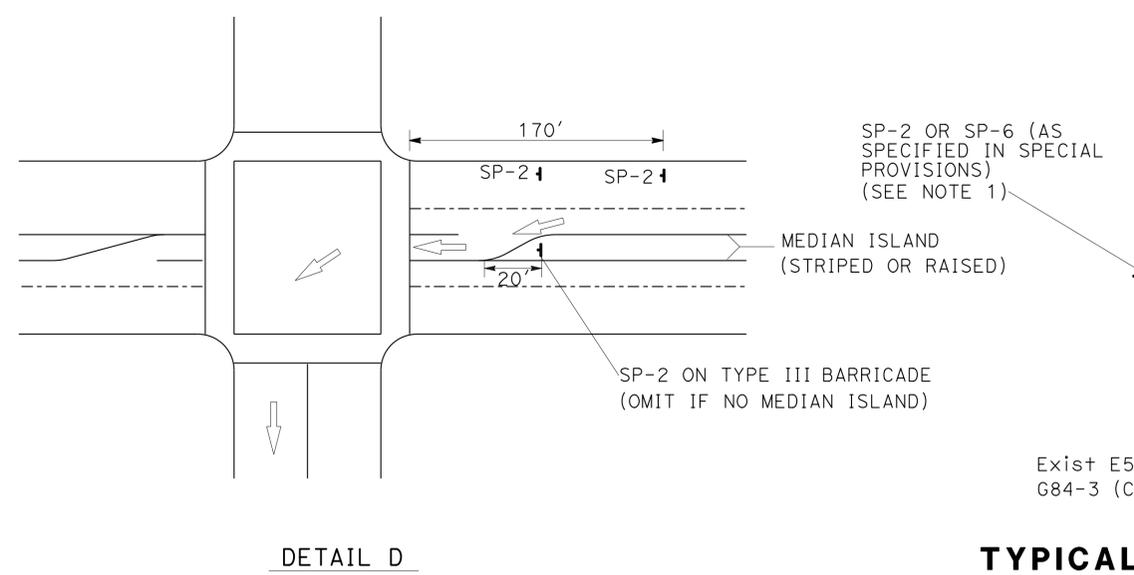
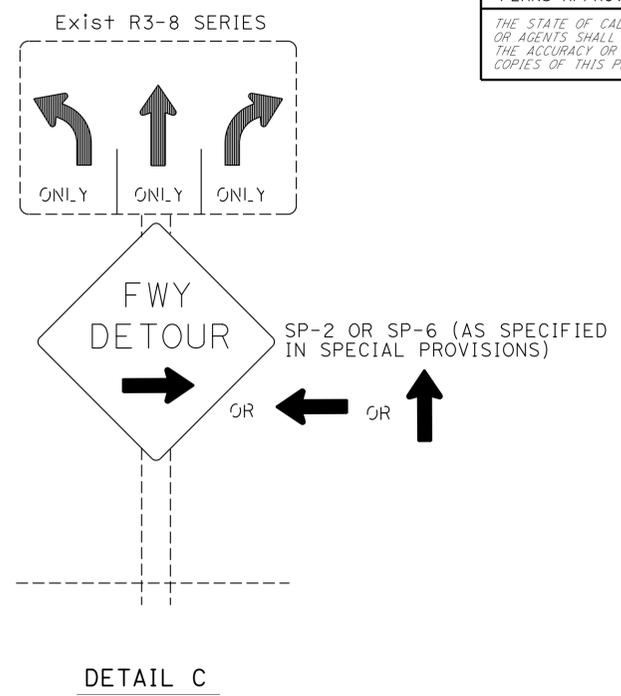
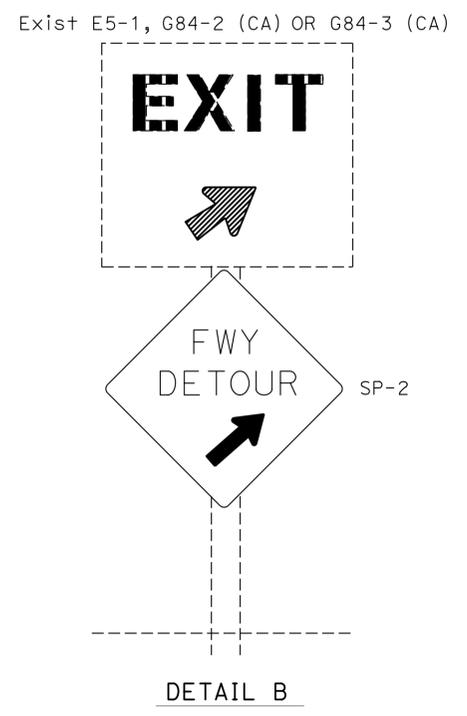
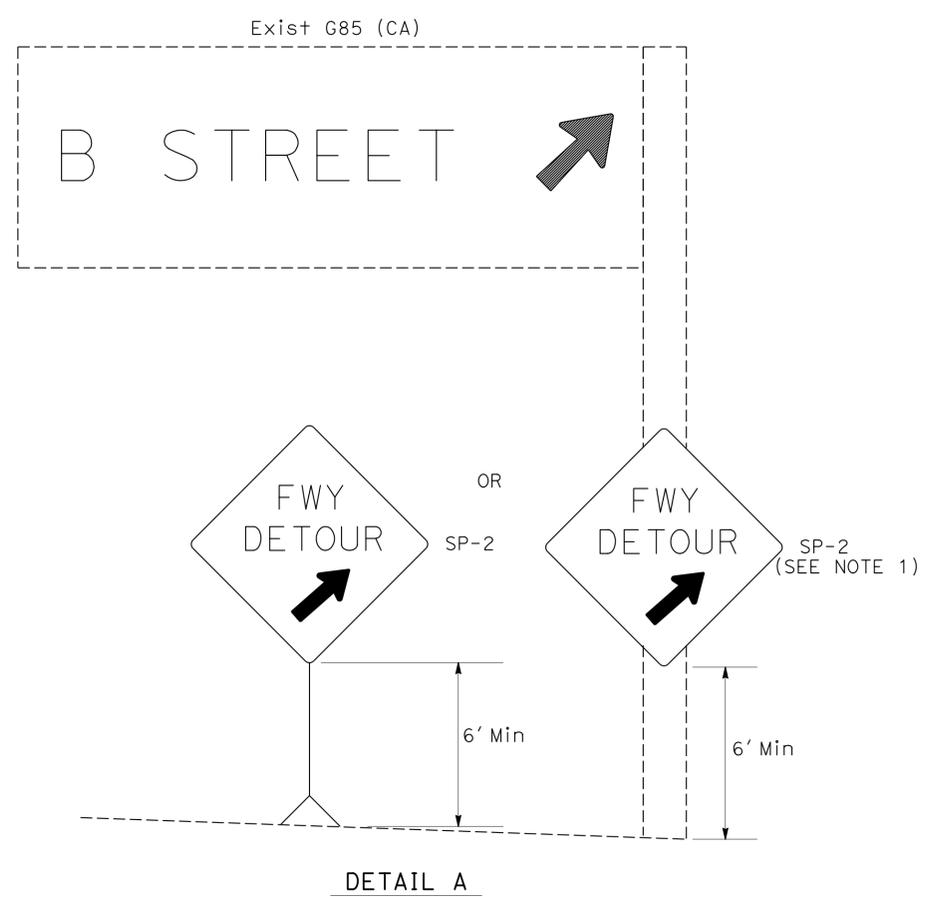
- LEGEND**
- ⚡ TEMPORARY SIGN (SP-2)
  - AND/OR — DESIGNATED DETOUR ROUTE
  - ➡ DIRECTION OF TRAVEL

- NOTES:**
1. SP-2 SIGNS SHALL NOT BE INSTALLED ON BARRICADES EXCEPT AS OTHERWISE SHOWN.
  2. SIGN LOCATIONS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
  3. SP-2 SIGNS SHALL BE POSTED AT SIGNALIZED INTERSECTIONS ALONG THE DESIGNATED DETOUR ROUTE OR 1/2 MILE MAXIMUM APART.

**TRAFFIC HANDLING DETAILS  
 TRAFFIC CONTROL SYSTEM  
 FOR DETOUR SIGN INSTALLATION  
 ALONG DESIGNATED DETOUR ROUTE  
 SHEET 1 OF 2  
 NO SCALE**

**THD-5**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,134	18.5/31.2, L4.5/L5.0	9	44
Martin Oregel REGISTERED CIVIL ENGINEER DATE 06-04-12			No. C56816 Exp. 6-30-13 CIVIL		
3-4-13 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.		



**TYPICAL DETOUR SIGN INSTALLATION AT OFF-RAMP**

- NOTES:**
1. TEMPORARY SIGNS MAY BE STRAPPED ON EXISTING ELECTROLIER, SIGNAL POSTS, OR SIGN POSTS.
  2. OMIT DETAIL A AND DETAIL B FOR FULL FREEWAY CLOSURES.
  3. SEE TRAFFIC HANDLING DETAILS PLAN-TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURES, DETOUR SIGNS AND MISCELLANEOUS DETAILS SHEET 2 OF 2 FOR SP-6.

**ABBREVIATIONS**  
 (CA) CALIFORNIA CODE

- LEGENDS**
- TRAFFIC CONE
  - ↑ TEMPORARY SIGN
  - DIRECTION OF TRAVEL
  - EXISTING OVERHEAD SIGN

**TRAFFIC HANDLING DETAILS  
 TRAFFIC CONTROL SYSTEM  
 FOR DETOUR SIGN INSTALLATION  
 ALONG DESIGNATED DETOUR ROUTE  
 SHEET 2 OF 2**

NO SCALE

**THD-6**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 FUNCTIONAL SUPERVISOR: MARTIN OREGEL  
 DESIGNED BY: ALBERT K YU  
 CHECKED BY: JOCELYN C CHIANG  
 REVISIONS: JC 8/10

LAST REVISION DATE PLOTTED => 01-MAR-2013  
 06-04-12 TIME PLOTTED => 07:23



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,134	18.5/31.2; L4.5/L5.0	11	44

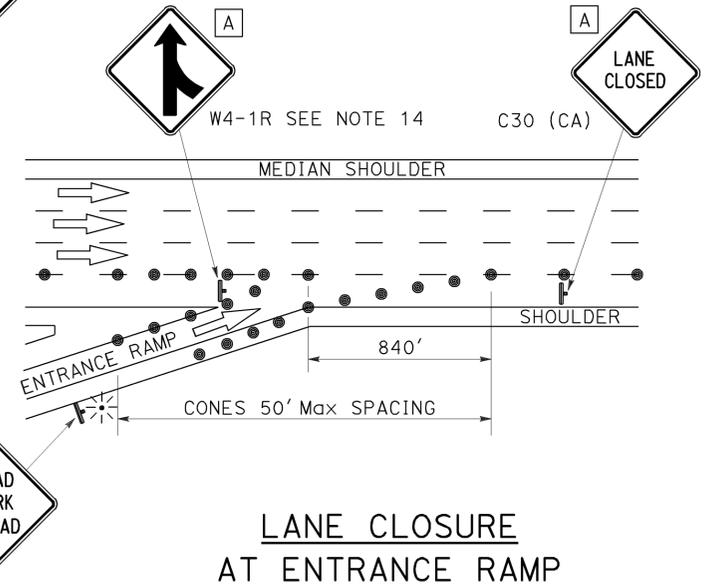
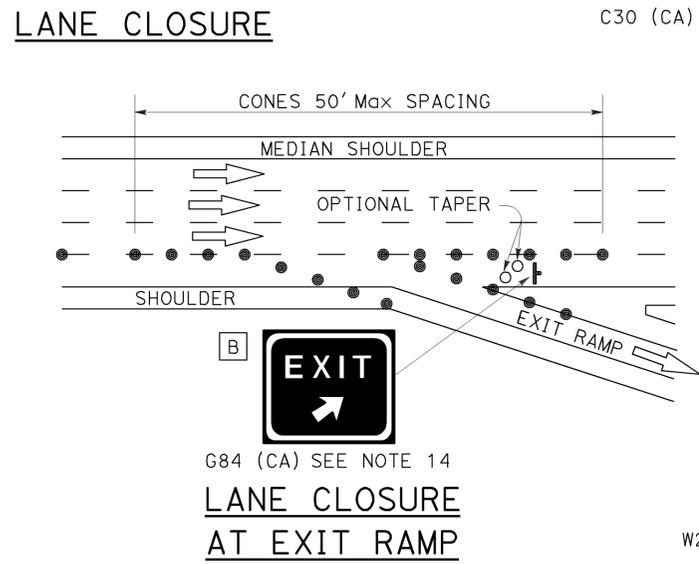
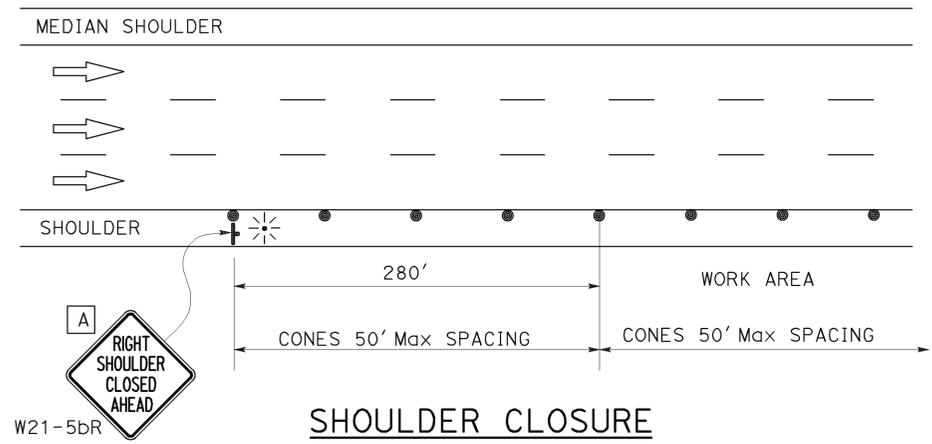
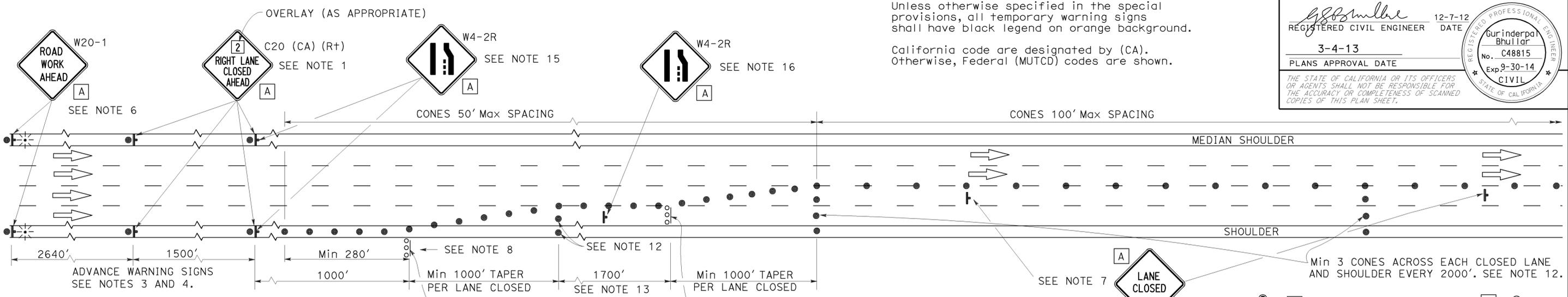
REGISTERED CIVIL ENGINEER		DATE
3-4-13		12-7-12
PLANS APPROVAL DATE		

PROFESSIONAL ENGINEER
Gurinderpal Bhullar
No. C48815
Exp. 9-30-14
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.

**NOTES:**  
 Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on orange background.  
 California code are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.



**NOTES:**

- Median lane closures shall conform to the details for outside lane closures except that C20 (CA) (Lt) signs shall be used.
- At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
- Duplicate sign installations are not required:
  - On opposite shoulder if at least one-half of the available lanes remain open to traffic.
  - In the median if the width of the median shoulder is less than 8' and the outside lanes are to be closed.
- Each advance warning sign on each side of the roadway shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
- A C14 (CA) "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within a larger project's limits.
- If the W20-1 sign would follow within 2000' of a stationary W20-1 or C11 (CA) "ROAD WORK NEXT \_\_\_\_\_ MILES", use a C20 (CA) sign for the first advance warning sign.
- Place a C30 (CA) sign every 2000' throughout length of lane closure.
- One flashing arrow sign for each lane closed. The first flashing arrow sign shall be Type I. All others may be either Type I or Type II.
- A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at top of crest vertical curve or on a horizontal curve.
- All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.
- Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000' as shown on the "Lane Closure" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
- Unless otherwise specified in the special provisions, the 1700' tangent shown along lane lines shall be used between the 1000' tapers required for each closed traffic lane.
- Unless otherwise specified in the special provisions, the G84 (CA) and W4-1 signs shall be used as shown.
- When specified in the special provisions, a W4-2 "LANE ENDS" symbol sign is to be used in place of the C20 (CA) "RIGHT LANE CLOSED AHEAD" sign.
- The W4-2 "LANE ENDS" symbol sign shown at this location is to be used where the W4-2 sign is used as advance warning as described in Note 15.

**SIGN PANEL SIZE (Min)**

- A 48" x 48"
- B 54" x 48"

**LEGEND**

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

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

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

NO SCALE

**TCS-1**

REVISOR BY  
 DATE

CALCULATED BY  
 DESIGNED BY  
 CHECKED BY

FUNCTIONAL SUPERVISOR

DEPARTMENT OF TRANSPORTATION

STATE OF CALIFORNIA  
 Caltrans



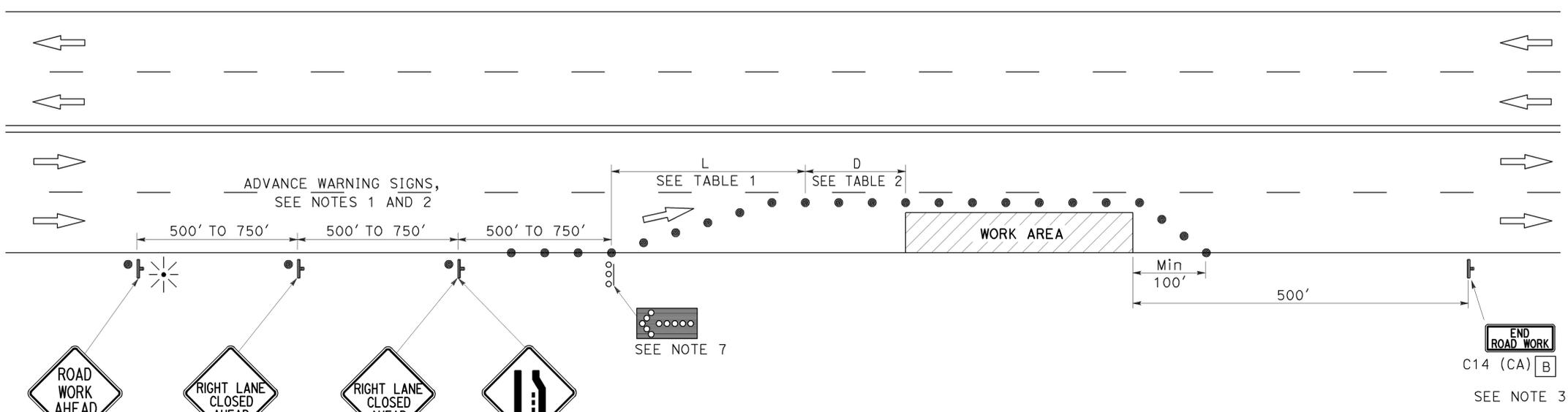
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,134	18.5/31.2; L4.5/L5.0	13	44

12-7-12  
 REGISTERED CIVIL ENGINEER DATE  
 3-4-13  
 PLANS APPROVAL DATE

Gurinderpal Bhullar  
 No. C48815  
 Exp. 9-30-14  
 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.

### TYPICAL LANE CLOSURE



**NOTES:**

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

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

W20-1 [A] SEE NOTE 4  
 C20 (CA) (R+) [A]  
 C20 (CA) (R+) [A]  
 W4-2R [A] SEE NOTE 10

**TABLE 1**

APPROACH SPEED	* MINIMUM L	** Max SPACING OF CONES ALONG TAPER
mph	ft	ft
20 AND BELOW	80	20
25	125	25
30	180	30
35	245	35
40	320	40
45	540	45
50	600	50
Over 50	SEE NOTE 9	
* USE L FOR LANE WIDTHS LESS THAN OR EQUAL TO 12'.		
** SEE NOTE 8.		

**TABLE 2**

APPROACH SPEED	MINIMUM D	DOWNGRADE MINIMUM D *		
		-3%	-6%	-9%
mph	ft	ft	ft	ft
25 AND BELOW	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
OVER 50	SEE NOTE 9			
* USE ON SUSTAINED DOWNGRADE STEEPER THAN -3 PERCENT AND LONGER THAN 1 MILE.				

- LEGEND**
- TRAFFIC CONE
  - ⊥ TEMPORARY SIGN
  - ⊠ FLASHING ARROW SIGN (FAS)
  - FAS SUPPORT OR TRAILER
  - ⊛ PORTABLE FLASHING BEACON

**SIGN PANEL SIZE (Min)**

[A] 36" x 36"

[B] 36" x 18"

- NOTES:**
- Where approach speeds are low, advance warning signs may be placed at 300' spacing and placed closer in urban areas.
  - Each advance warning sign shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
  - A C14 (CA) "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious, or ends within a larger project's limits.
  - If the W20-1 sign would follow within 2000' of a stationary W20-1 or C11 (CA) "ROAD WORK NEXT" MILES", use a C20 (CA) sign for the first advance warning sign.
  - All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
  - Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
  - Flashing arrow sign shall be either Type I or Type II.
  - The maximum spacing between cones along a tangent shall be 50' and along a taper shall be approximately as shown in Table 1.
  - For approach speeds over 50 mph, use the "Traffic Control System for Lane Closure On Freeways And Expressways" plan for lane closure details and requirements.
  - When specified in the special provisions, a W4-2 "LANE ENDS" symbol sign is to be used in place of the C20 (CA) "RIGHT LANE CLOSED AHEAD" sign.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

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

NO SCALE

**TCS-3**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 Et Caltrans

LAST REVISION | DATE PLOTTED => 10-DEC-2012  
 00-00-00 TIME PLOTTED => 09:45

**LEGEND**

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

**TABLE 1**

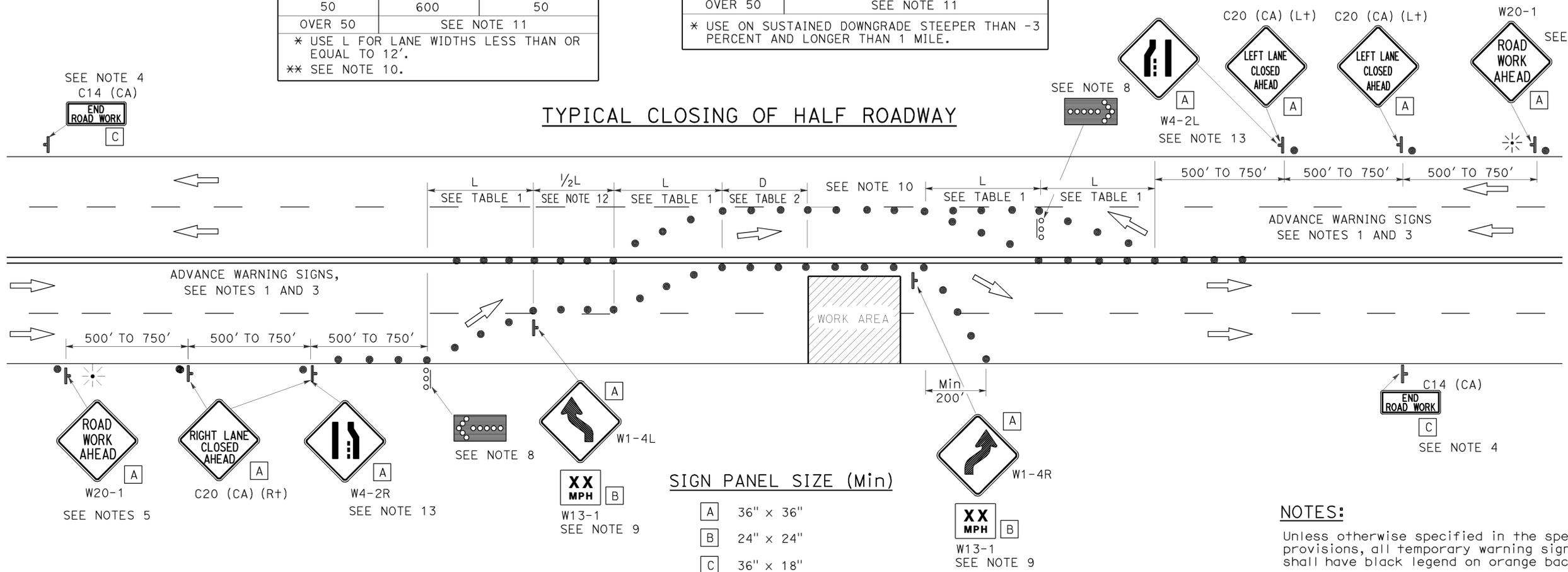
APPROACH SPEED	* MINIMUM L	** Max SPACING OF CONES ALONG TAPER
mph	ft	ft
20 and below	80	20
25	125	25
30	180	30
35	245	35
40	320	40
45	540	45
50	600	50
OVER 50	SEE NOTE 11	

\* USE L FOR LANE WIDTHS LESS THAN OR EQUAL TO 12'.  
\*\* SEE NOTE 10.

**TABLE 2**

APPROACH SPEED	MINIMUM D	DOWNGRADE MINIMUM D *		
		-3%	-6%	-9%
mph	ft	ft	ft	ft
25 AND BELOW	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
OVER 50	SEE NOTE 11			

\* USE ON SUSTAINED DOWNGRADE STEEPER THAN -3 PERCENT AND LONGER THAN 1 MILE.



**SIGN PANEL SIZE (Min)**

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

**NOTES:**

1. Where Approach speeds are low, advance warning signs may be placed at 300' spacing and placed closer in urban areas.
2. At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closure unless, otherwise directed by the Engineer.
3. Each advance warning sign in each direction of travel shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
4. A C14 (CA) "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious, or ends within a larger project's limits.
5. If the W20-1 sign would follow within 2000' of a stationary W20-1 or C11 (CA) "ROAD WORK NEXT MILES", use a C20 (CA) sign for the first advance warning sign.
6. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
7. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
8. Flashing arrow signs shall be either Type I or Type II.
9. Advisory speed will be determined by the Engineer. The W13-1 Sign will not be required when advisory speed is more than the posted or maximum speed limit.
10. The maximum spacing between cones along a tangent shall be 50' and along a taper shall be approximately as shown in Table 1.
11. For approach speeds over 50 mph, use the "Traffic Control System For Lane Closure On Freeways And Expressways" plan for lane closure details and requirements.
12. Unless otherwise specified in the special provisions, the (1/2 L) shown between the two (L) lane closure tapers shall be used.
13. When specified in the special provisions, a W4-2 "Lane Ends" symbol sign is to be used in place of the C20 (CA) "RIGHT (LEFT) LANE CLOSED AHEAD" sign.

**NOTES:**

Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on orange background.  
California code are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

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

NO SCALE

**TCS-4**

REVISOR BY DATE

CALCULATED/DESIGNED BY CHECKED BY

FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

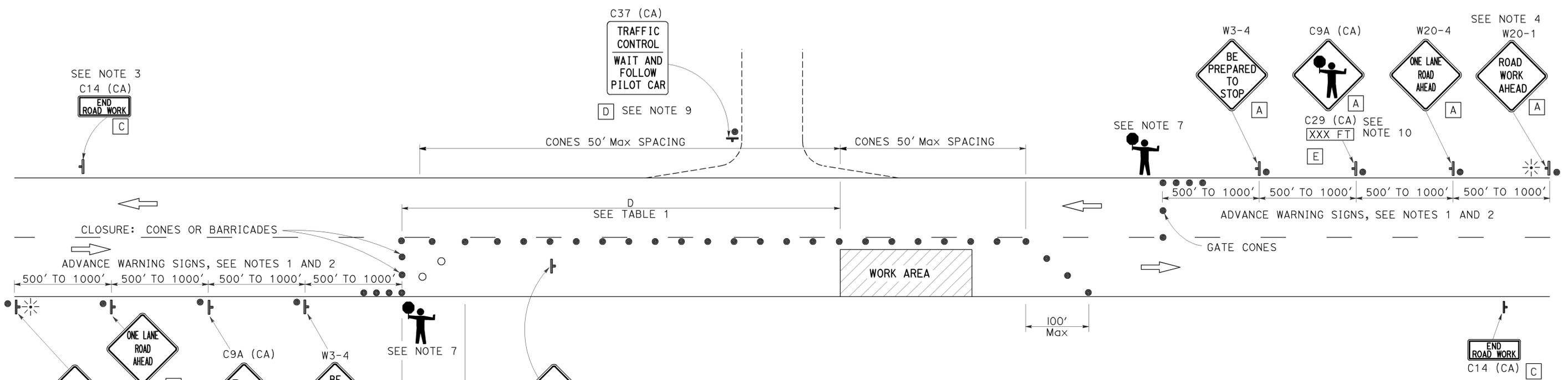


**NOTES:**

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

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

**TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL**



**SIGN PANEL SIZE (MINIMUM)**

- A 48" x 48" - SPEED OF 45 mph OR MORE  
36" x 36" - SPEED LESS THAN 45 mph
- B 30" x 30"
- C 36" x 18"
- D 36" x 42"
- E 36" x 9"

**LEGEND**

- TRAFFIC CONE
- TRAFFIC CONE (OPTIONAL TAPER)
- ⊢ TEMPORARY SIGN
- ⚡ PORTABLE FLASHING BEACON
- 🚧 FLAGGER

**TABLE 1**

APPROACH SPEED	MINIMUM D	DOWNGRADE MINIMUM D *		
		-3%	-6%	-9%
25 AND BELOW	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

\* USE ON SUSTAINED DOWNGRADE STEEPER THAN -3 PERCENT AND LONGER THAN 1 MILE.

**NOTES:**

- Where approach speeds are low, advance warning signs may be placed at 300' spacing, and closer in urban areas.
- Each advance warning sign in each direction of travel shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
- A C14 (CA) "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane control unless the end of work area is obvious, or ends within a larger project's limits.
- If the W20-1 sign would follow within 2000' of a stationary W20-1 or C11 (CA) "ROAD WORK NEXT \_\_\_\_\_ MILES", use a W20-4 sign for the first advance warning sign.
- All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
- Additional advance flaggers may be required. Flagger should stand in a conspicuous place, be visible to approaching traffic as well as approaching vehicles after the first vehicle has stopped. During the hours of darkness, the flagging-station and flagger shall be illuminated and clearly visible to approaching traffic. The illumination footprint of the lighting on the ground shall be at least 20' in diameter. Place a minimum of four cones at 50' intervals in advance of flagger station as shown.
- Place C30 (CA) "LANE CLOSED" sign at 500' to 1000' intervals throughout extended work areas. They are optional if the work area is visible from the flagger station.
- When a pilot car is used, place a C37 (CA) "TRAFFIC CONTROL-WAIT AND FOLLOW PILOT CAR" sign at all intersections within traffic control area. Signs shall be clean and visible at all times.
- An optional C29 (CA) sign may be placed below the C9A (CA) sign.
- Traffic cones or barricades may be placed on the optional taper as shown, barricades shall be Type I, II, or III.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

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

NO SCALE

**TCS-5**

REVISIONS: REVISED BY, DATE, CHECKED BY, CALCULATED/DESIGNED BY, FUNCTIONAL SUPERVISOR, DEPARTMENT OF TRANSPORTATION, STATE OF CALIFORNIA, Caltrans

# TYPICAL RAMP CLOSURES

## SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 48" x 30"
- C 30" x 30"
- D 48" x 48" - SPEED OF 50 mph OR MORE  
36" x 36" - SPEED LESS THAN 50 mph
- E 48" x 36"

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,134	18.5/31.2; L4.5/L5.0	16	44

REGISTERED CIVIL ENGINEER  
 12-7-12 DATE  
 3-4-13  
 PLANS APPROVAL DATE

Gurinderpal Bhullar  
 No. C48815  
 Exp. 9-30-14  
 CIVIL

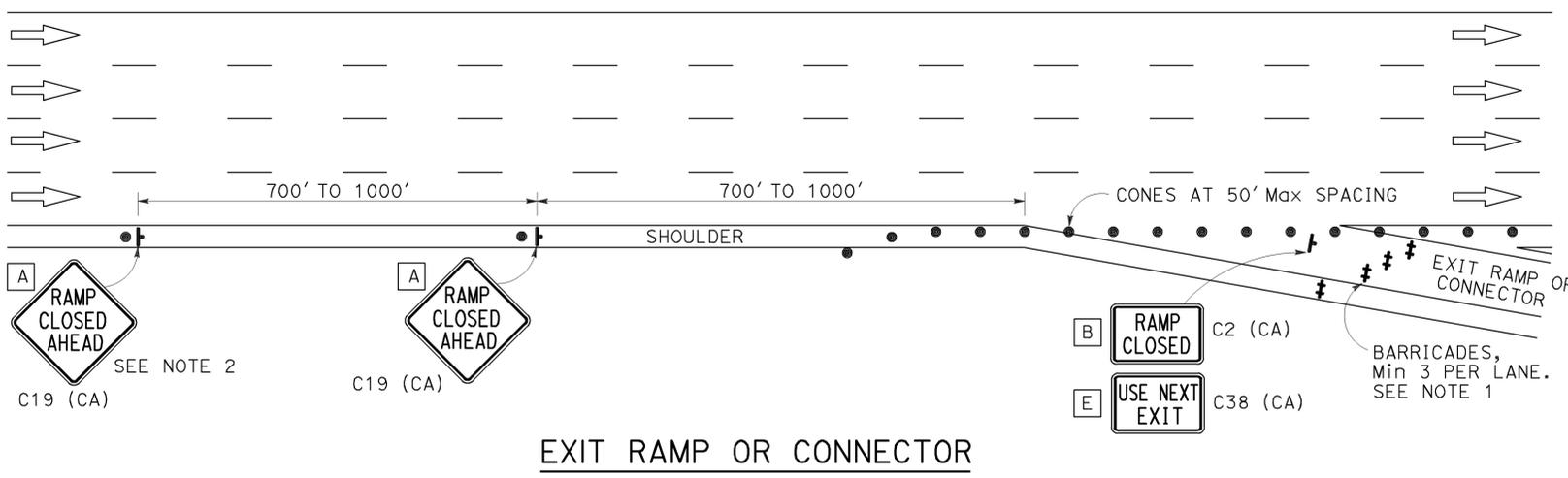
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

## LEGEND

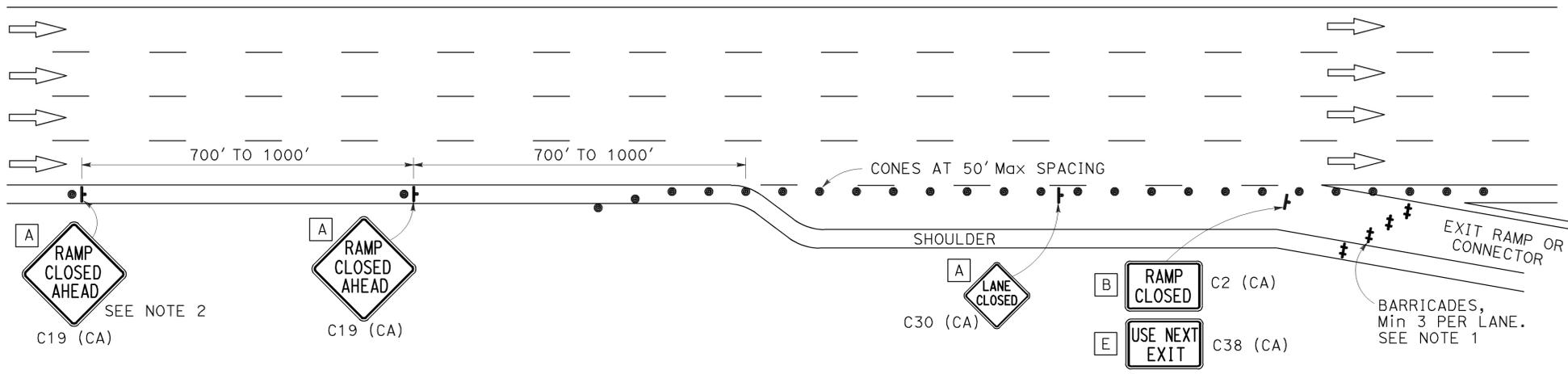
- TRAFFIC CONE
- † TEMPORARY SIGN
- ‡ BARRICADES

## NOTES:

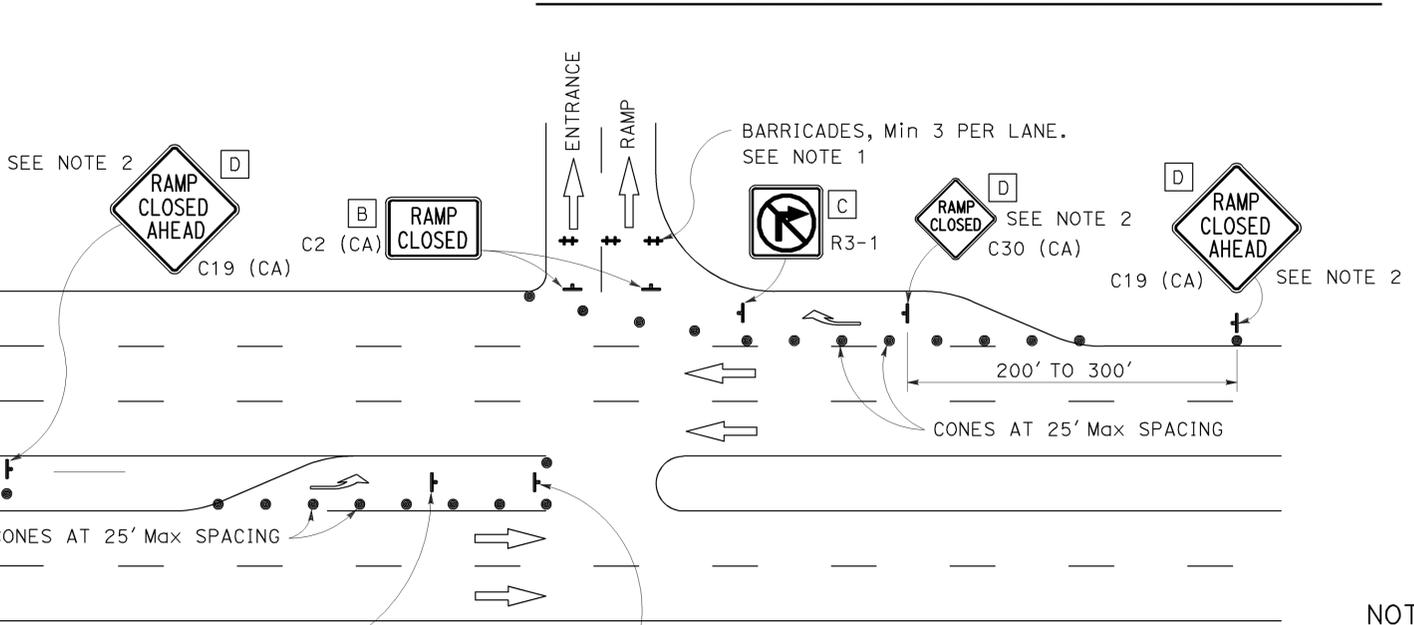
- Barricades shall be Type I, II, or III for closures lasting one week or less and Type III for closures lasting longer than one week.
- In addition to placing the C19 (CA) "RAMP CLOSED AHEAD" and C30 (CA) "RAMP CLOSED" signs, black on orange overlay plates with the word "CLOSED" may be mounted, as directed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



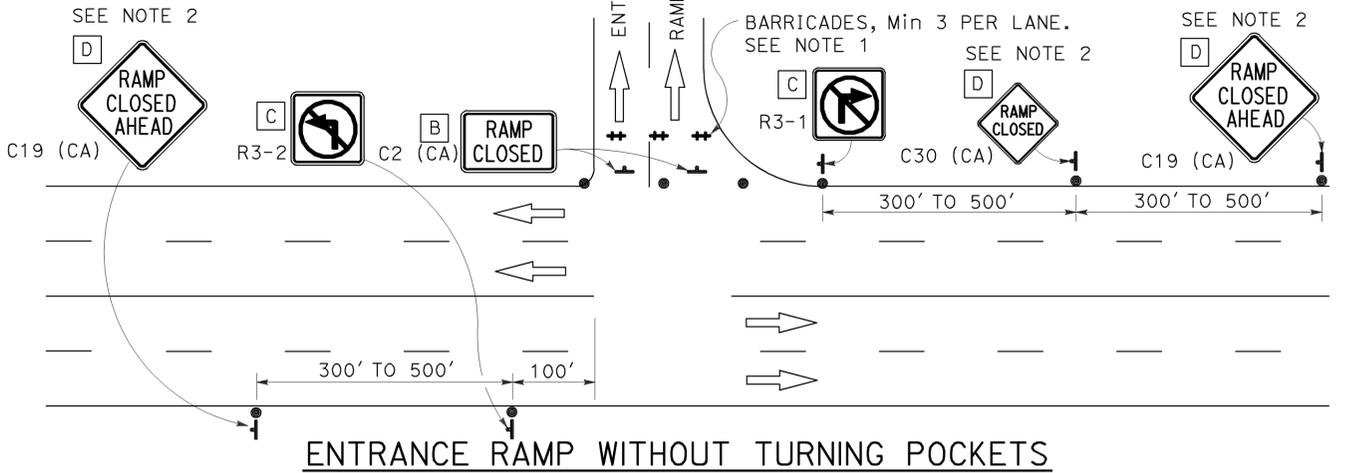
EXIT RAMP OR CONNECTOR



EXIT RAMP OR CONNECTOR WITH ADDITIONAL LANE



ENTRANCE RAMP WITH TURNING POCKETS



ENTRANCE RAMP WITHOUT TURNING POCKETS

## NOTES:

- Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on orange background.
- California code are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

# TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURE

NO SCALE

TCS-6

REVISOR BY  
DATE

CALCULATED BY  
DESIGNED BY  
CHECKED BY

FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
Et-Trans

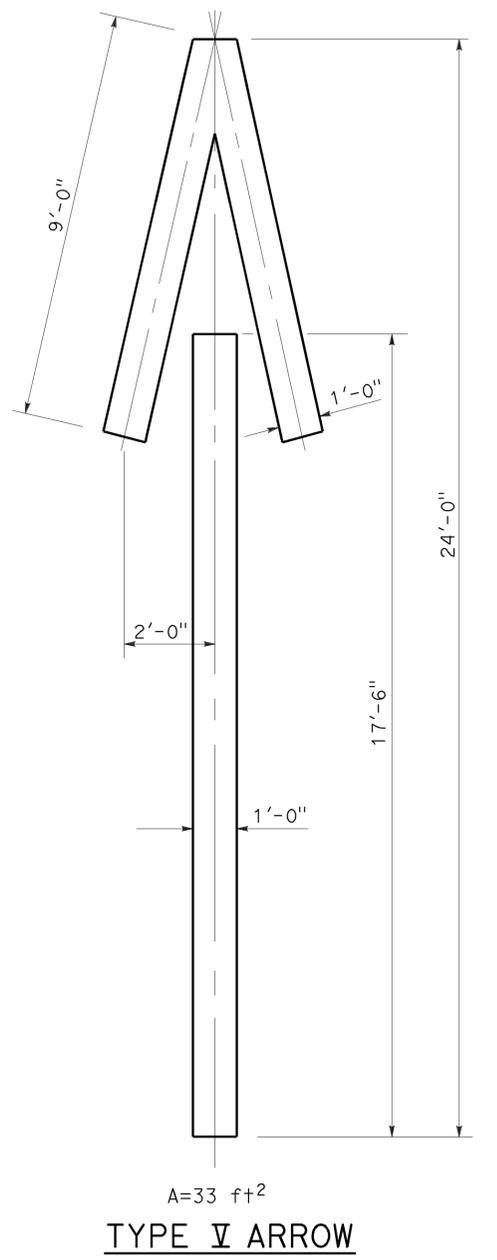
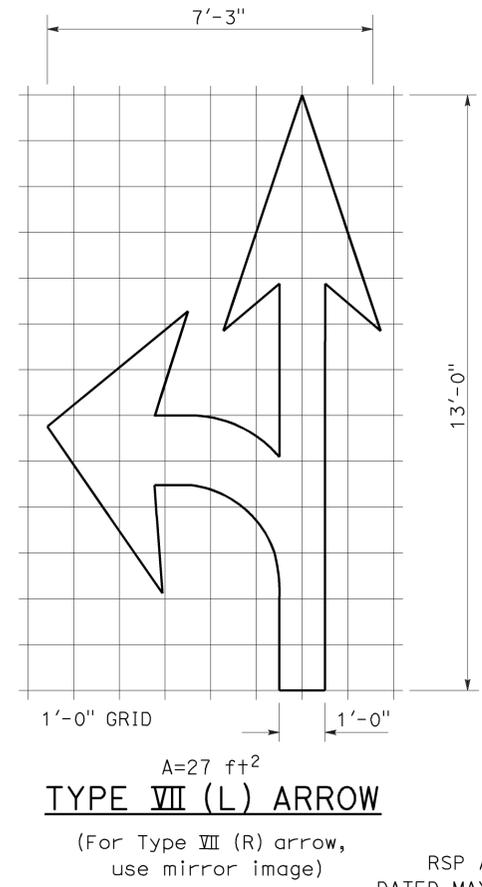
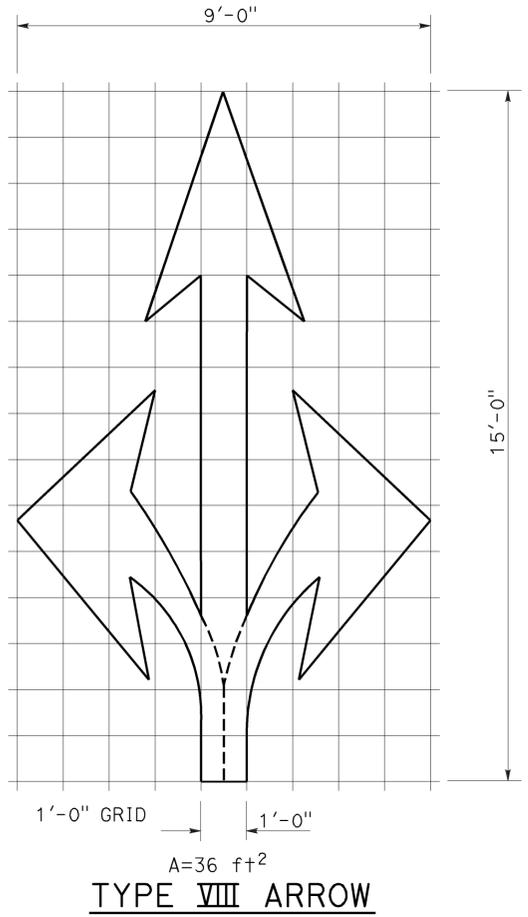
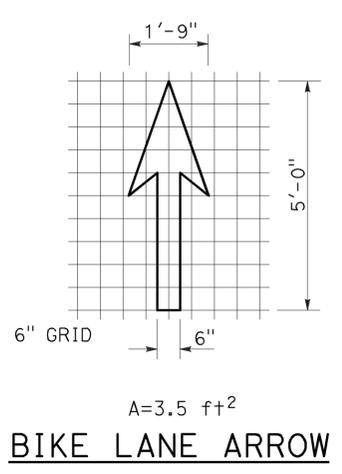
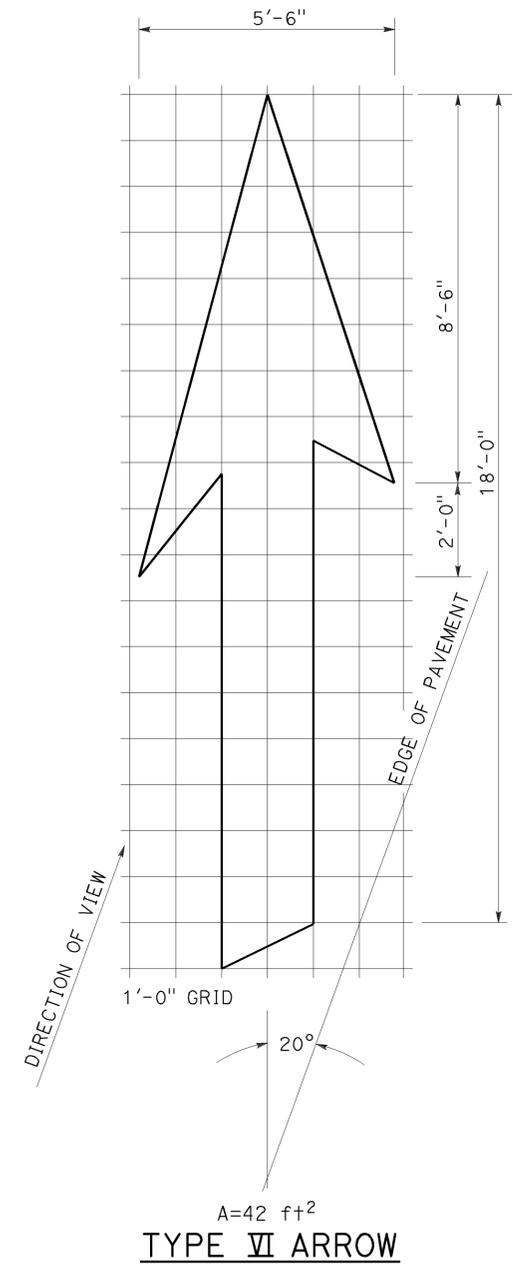
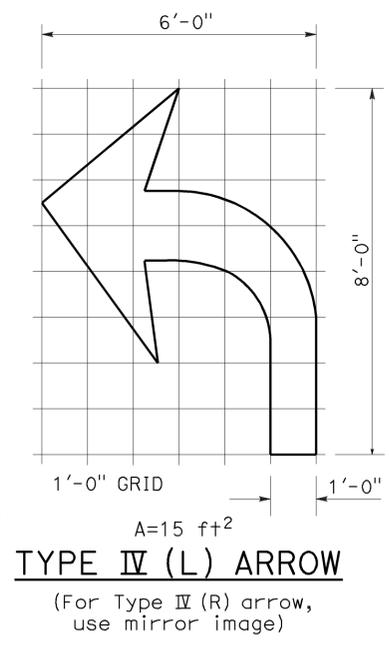
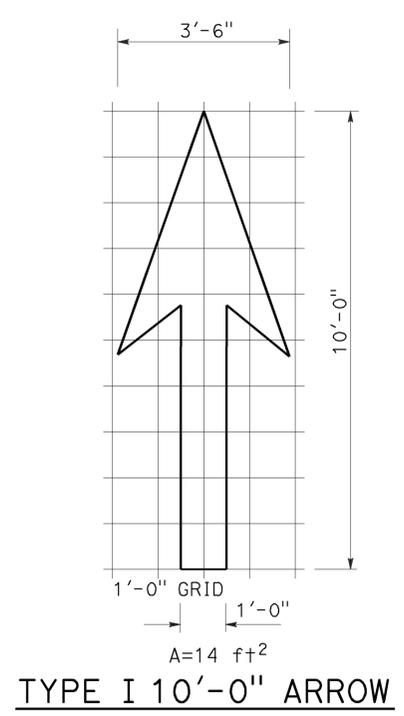
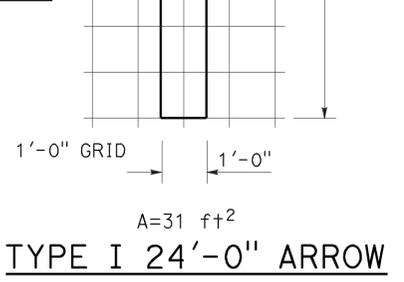
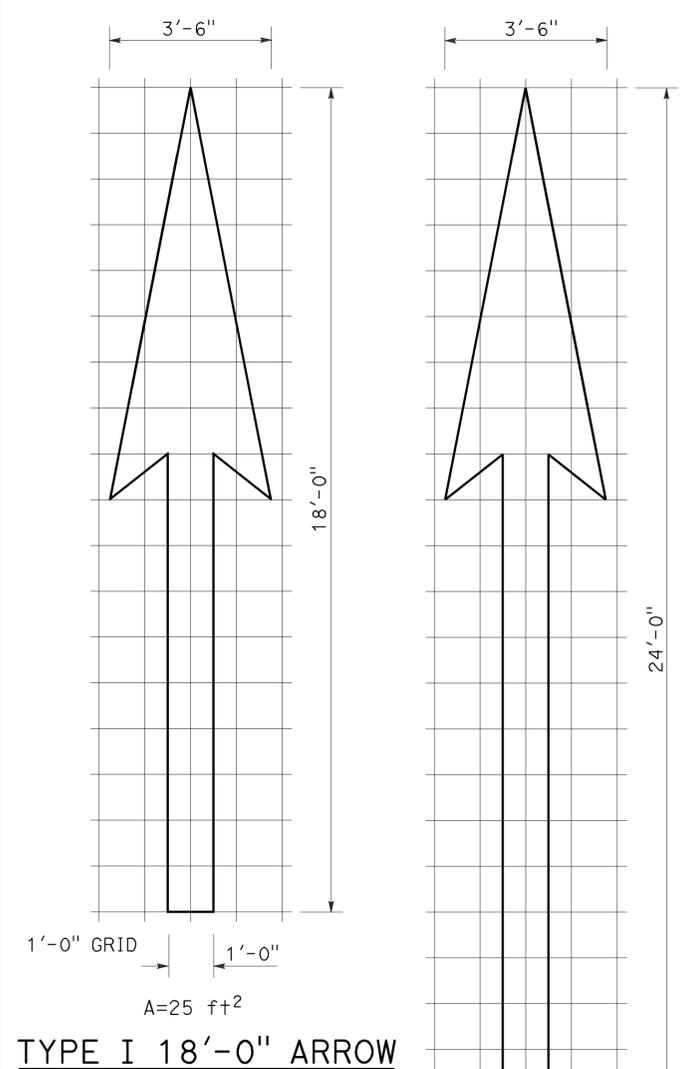
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,134	18.5/31.2, L4.5/L5.0	17	44

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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 OR AGENTS SHALL NOT BE RESPONSIBLE FOR  
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 COPIES OF THIS PLAN SHEET.

TO ACCOMPANY PLANS DATED 3-4-13



**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.

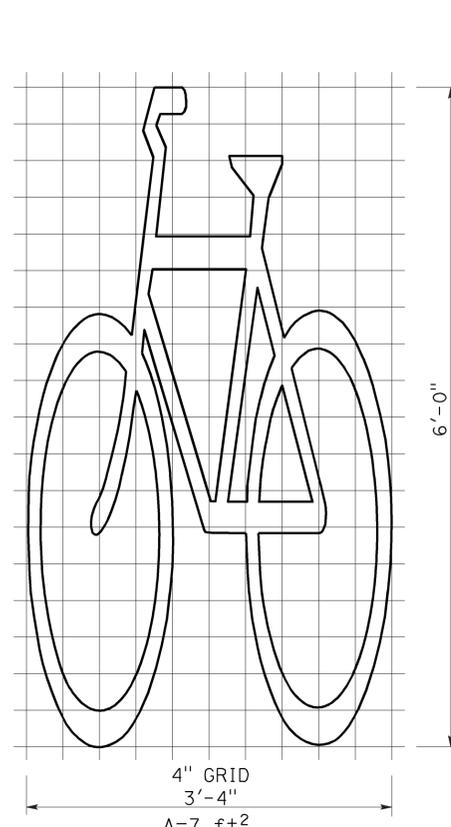
**REVISED STANDARD PLAN RSP A24A**

**2010 REVISED STANDARD PLAN RSP A24A**

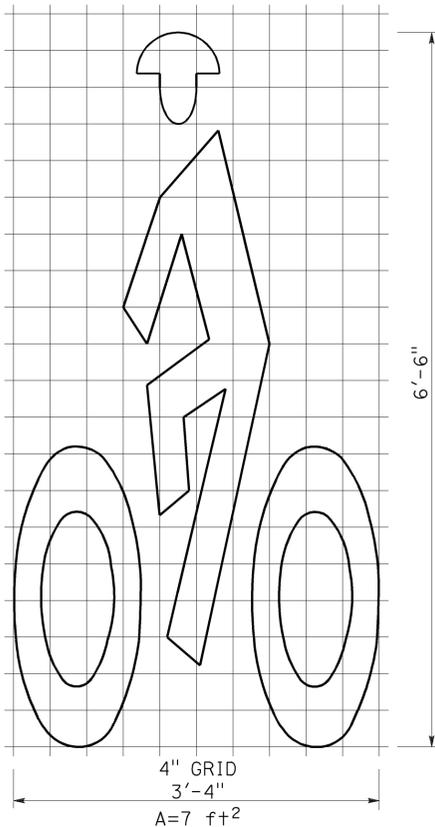
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,134	18.5/31.2; L4.5/L5.0	18	44

Robert L. McLaughlin  
 REGISTERED CIVIL ENGINEER  
 October 19, 2012  
 PLANS APPROVAL DATE  
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

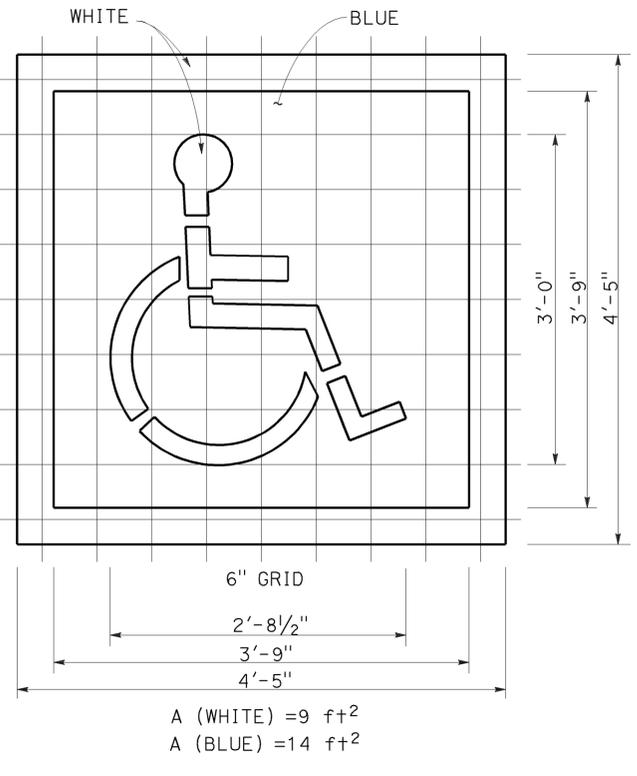
REGISTERED PROFESSIONAL ENGINEER  
 Robert L. McLaughlin  
 No. C40375  
 Exp. 3-31-13  
 CIVIL  
 STATE OF CALIFORNIA



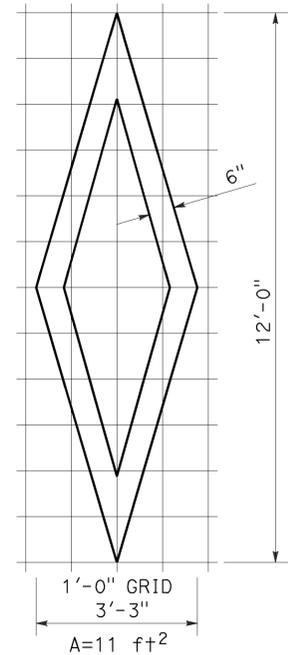
**BIKE LANE SYMBOL  
WITHOUT PERSON**



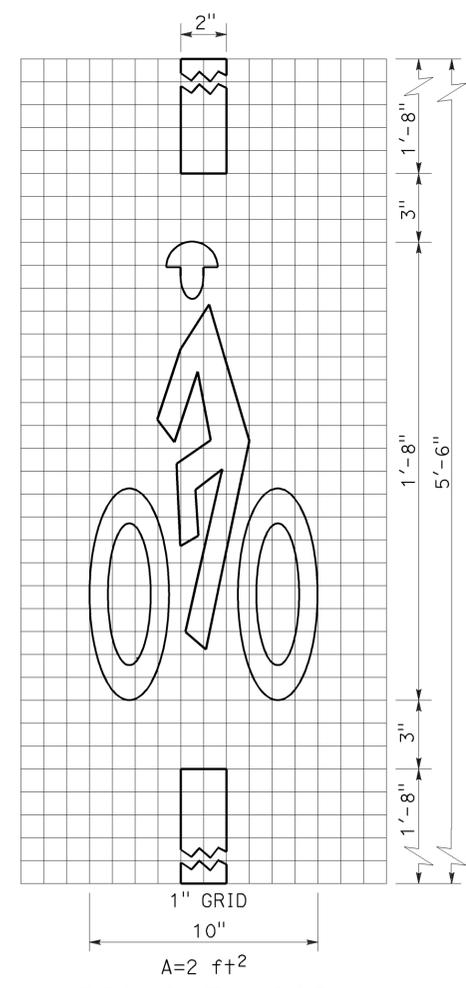
**BIKE LANE SYMBOL  
WITH PERSON**



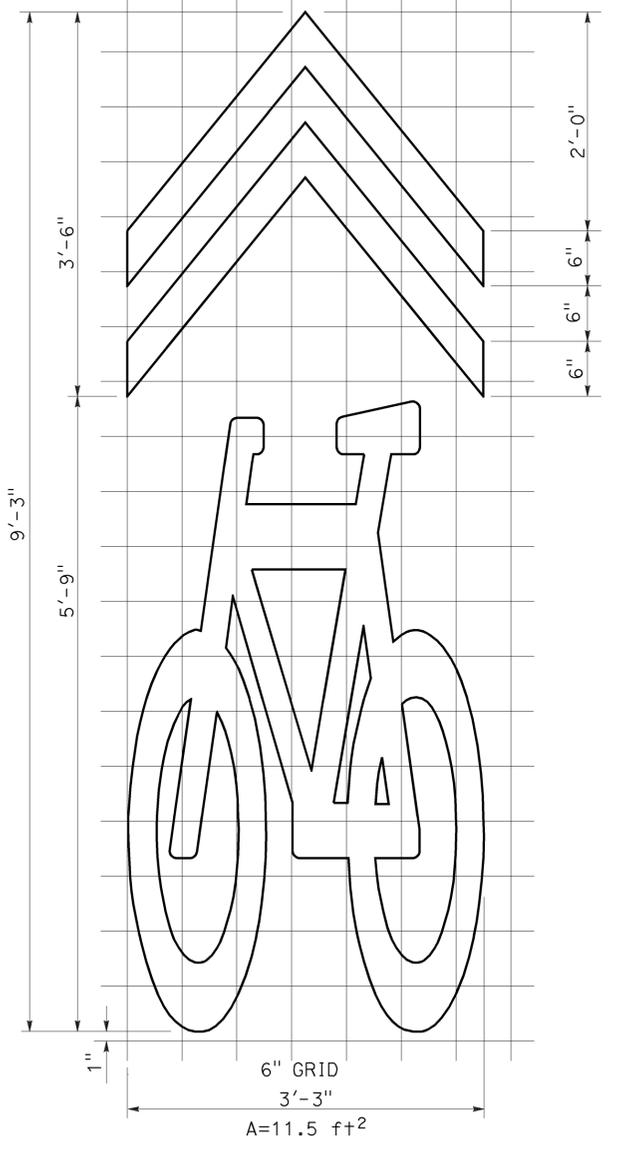
**INTERNATIONAL SYMBOL  
OF ACCESSIBILITY (ISA) MARKING**



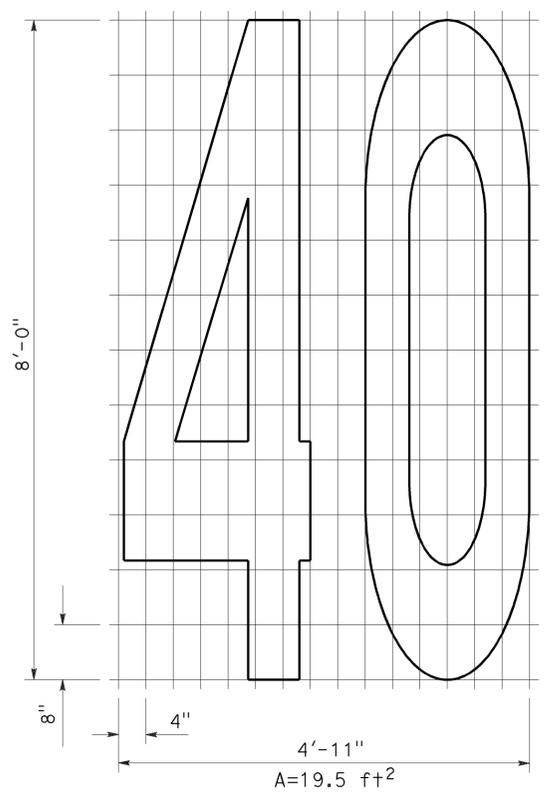
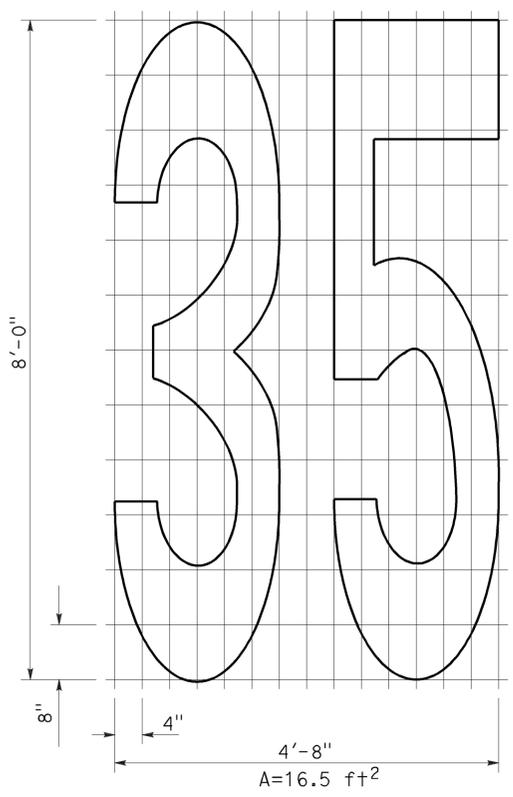
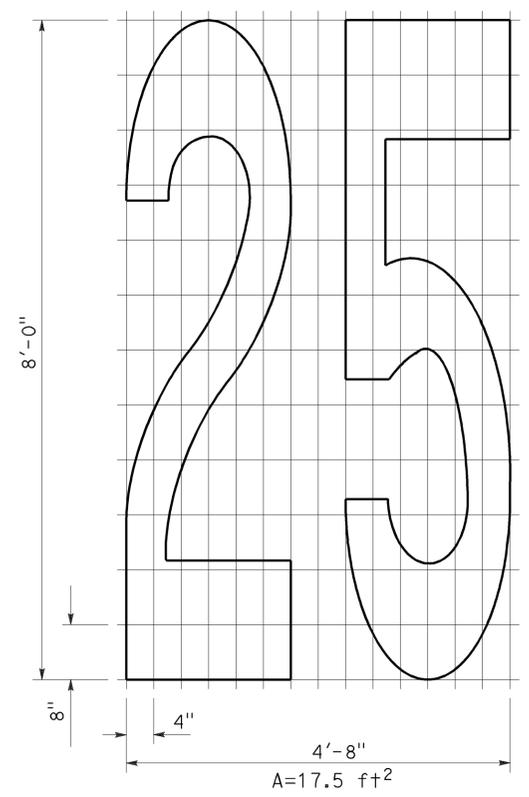
**DIAMOND SYMBOL**



**BICYCLE LOOP  
DETECTOR SYMBOL**



**SHARED ROADWAY BICYCLE MARKING**



**NUMERALS**

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

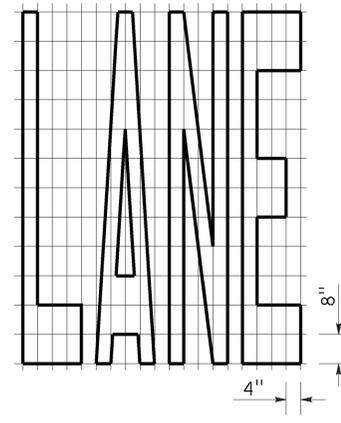
RSP A24C DATED OCTOBER 19, 2012 SUPERSEDES STANDARD PLAN A24C DATED MAY 20, 2011 - PAGE 15 OF THE STANDARD PLANS BOOK DATED 2010.

**REVISED STANDARD PLAN RSP A24C**

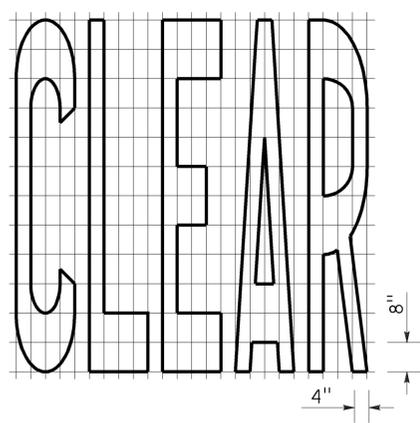
**2010 REVISED STANDARD PLAN RSP A24C**

TO ACCOMPANY PLANS DATED 3-4-13

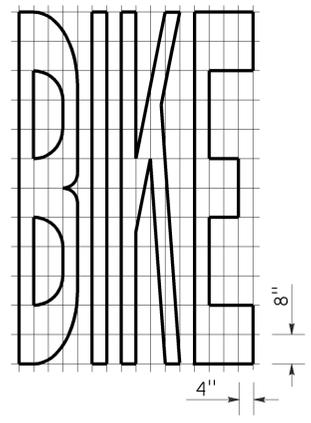
2010 REVISED STANDARD PLAN RSP A24E



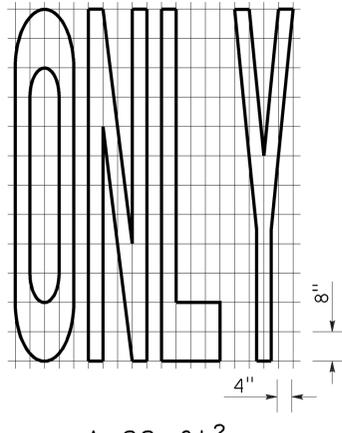
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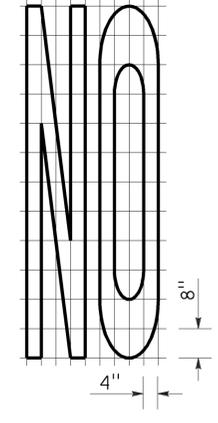
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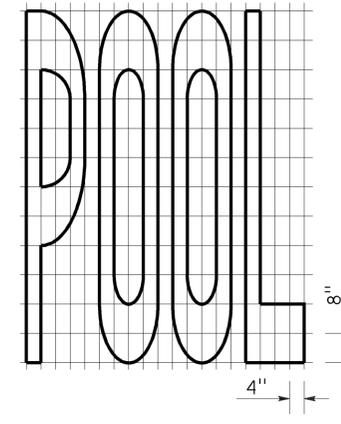
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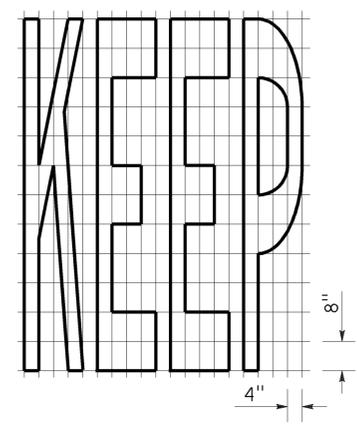
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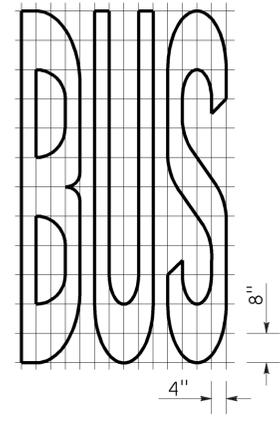
A=14 ft<sup>2</sup>



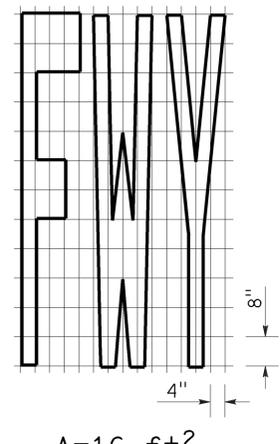
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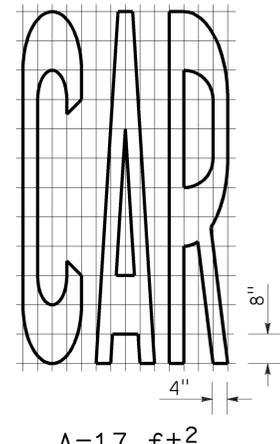
A=24 ft<sup>2</sup>



A=20 ft<sup>2</sup>

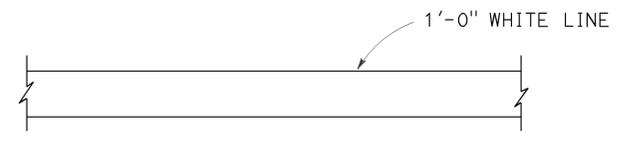
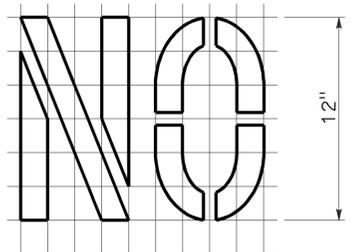


A=16 ft<sup>2</sup>

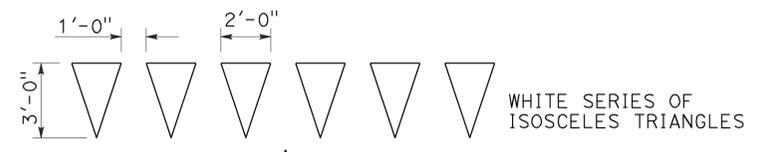


A=17 ft<sup>2</sup>

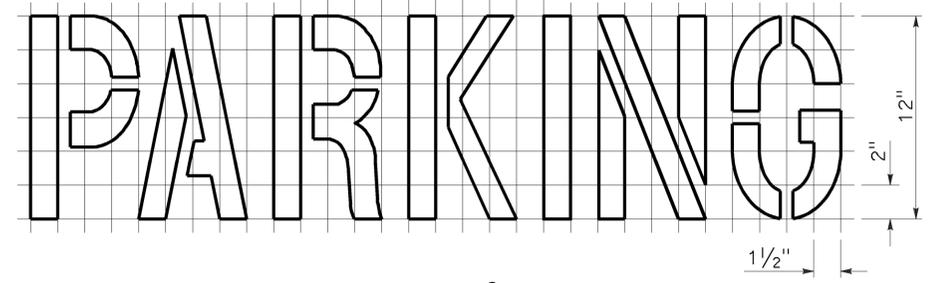
WORD MARKINGS			
ITEM	ft <sup>2</sup>	ITEM	ft <sup>2</sup>
LANE	24	NO	14
POOL	23	BIKE	21
CAR	17	BUS	20
CLEAR	27	ONLY	22
KEEP	24	FWY	16



LIMIT LINE (STOP LINE)



YIELD LINE



A=2 ft<sup>2</sup>  
See Notes 6 and 7

**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**

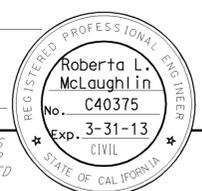
NO SCALE

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

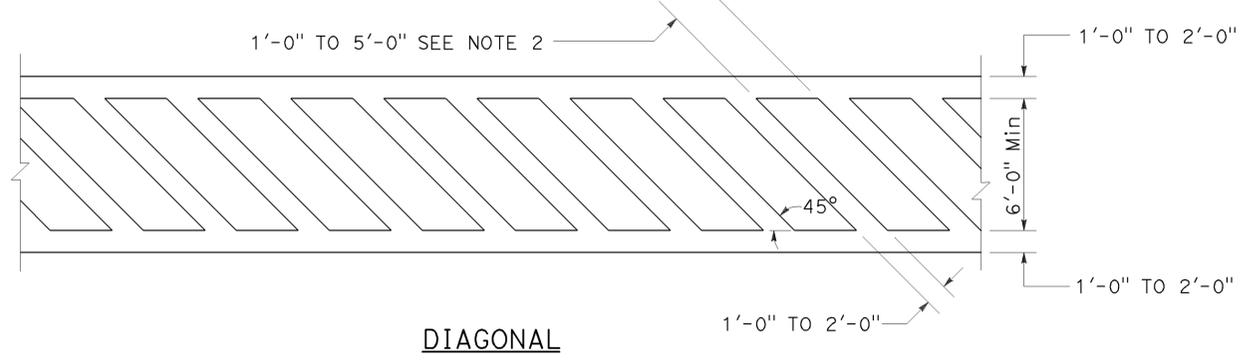
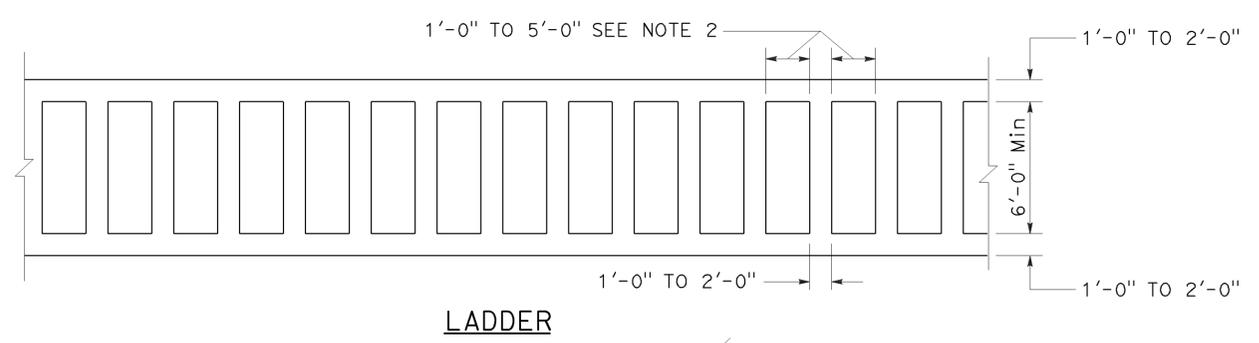
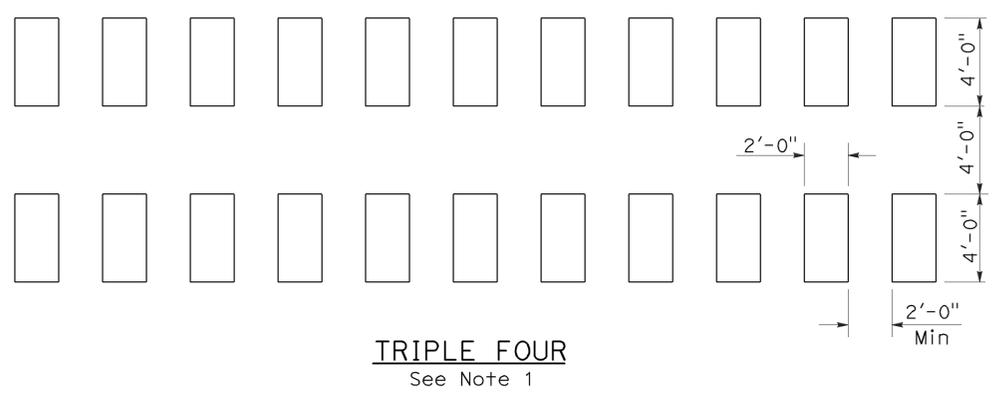
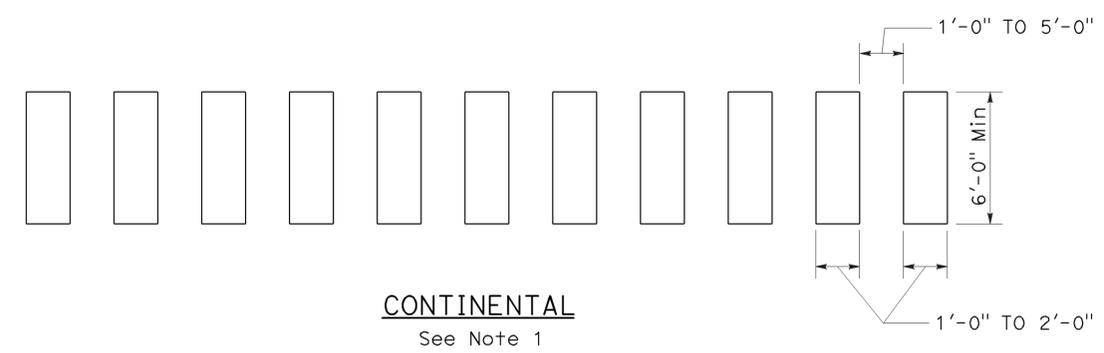
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,134	18.5/31.2; L4.5/L5.0	20	44

*Roberta L. McLaughlin*  
 REGISTERED CIVIL ENGINEER  
 July 20, 2012  
 PLANS APPROVAL DATE

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



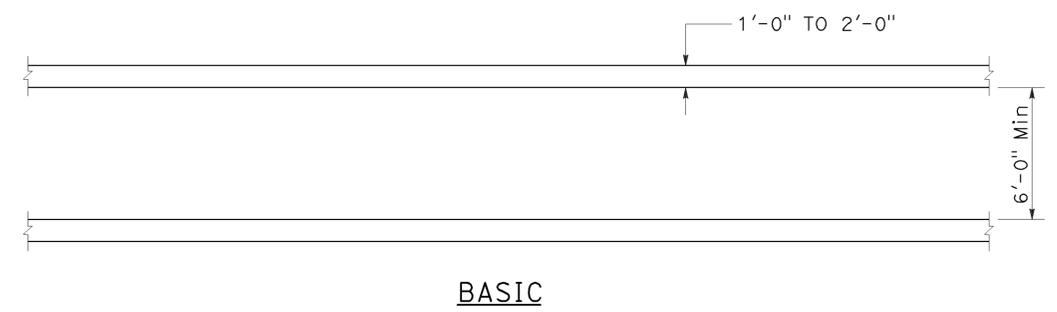
TO ACCOMPANY PLANS DATED 3-4-13



**HIGHER VISIBILITY CROSSWALKS**

**NOTES:**

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



**BASIC**

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

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

2010 REVISED STANDARD PLAN RSP A24F

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,134	18.5/31.2, L4.5/L5.0	21	44
 REGISTERED CIVIL ENGINEER DATE 12-19-12					
3-4-13			PLANS APPROVAL DATE		
<i>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.</i>					

**LEGEND:**

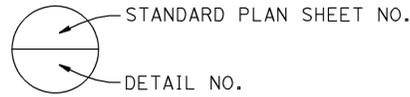
- Indicates existing.
- ⇒ Indicates direction of traffic.
-  Indicates limits of prepare, treat, and furnish existing bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment.

**NOTE:**

For clean expansion joint and joint details, see "MISCELLANEOUS DETAILS NO. 1" sheet.

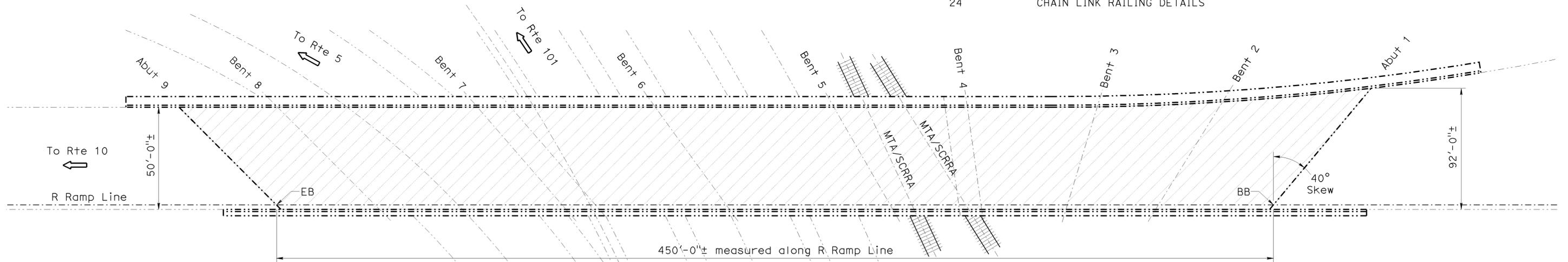
**STANDARD PLANS DATED MAY 2006**

SHEET NO.	TITLE
A10A	ACRONYMS AND ABBREVIATIONS (SHEET 1 OF 2)
A10B	ACRONYMS AND ABBREVIATIONS (SHEET 2 OF 2)
A10C	SYMBOLS (SHEET 1 OF 2)
A10D	SYMBOLS (SHEET 2 OF 2)
B6-21	JOINT SEAL (MAXIMUM MOVEMENT RATING = 2")



**INDEX TO PLANS**

SHEET NO.	TITLE
1	GENERAL PLAN NO. 1
2	GENERAL PLAN NO. 2
3	GENERAL PLAN NO. 3
4	GENERAL PLAN NO. 4
5	GENERAL PLAN NO. 5
6	GENERAL PLAN NO. 6
7	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	GENERAL PLAN NO. 12
13	GENERAL PLAN NO. 13
14	GENERAL PLAN NO. 14
15	GENERAL PLAN NO. 15
16	GENERAL PLAN NO. 16
17	GENERAL PLAN NO. 17
18	GENERAL PLAN NO. 18
19	GENERAL PLAN NO. 19
20	GENERAL PLAN NO. 20
21	MISCELLANEOUS DETAILS NO. 1
22	MISCELLANEOUS DETAILS NO. 2
23	MISCELLANEOUS DETAILS NO. 3
24	CHAIN LINK RAILING DETAILS



**S5-E10 CONNECTOR OH**

Br No. 53-1332F, Rte 5, PM 18.53  
Scale 1"=20'

S5-E10 CONNECTOR OH #53-1332F  
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	32,000 SQFT
TREAT BRIDGE DECK	32,000 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	400 GAL

NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITIES FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

 DESIGN ENGINEER	DESIGN	BY Gerald Joo	CHECKED Edward Li	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
	DETAILS	BY Clayton Tom	CHECKED Gerald Joo	LAYOUT	BY Clayton Tom
	QUANTITIES	BY Gerald Joo	CHECKED Ramesh Patel	SPECIFICATIONS	BY James Choi

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE	BRIDGE NO.
	STRUCTURE MAINTENANCE DESIGN	Varies
		POST MILE
		Varies

<b>ROUTES 5 &amp; 134 BRIDGES</b> <b>GENERAL PLAN NO. 1</b>		REVISION DATES	SHEET	OF
		05-08-12 05-28-12 12-10-12 12-19-12	01	24

USERNAME => s117283 DATE PLOTTED => 19-DEC-2012 TIME PLOTTED => 11:15  
 FILE => 07-1w3301-a-gp01.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,134	18.5/31.2, 14.5/15.0	22	44

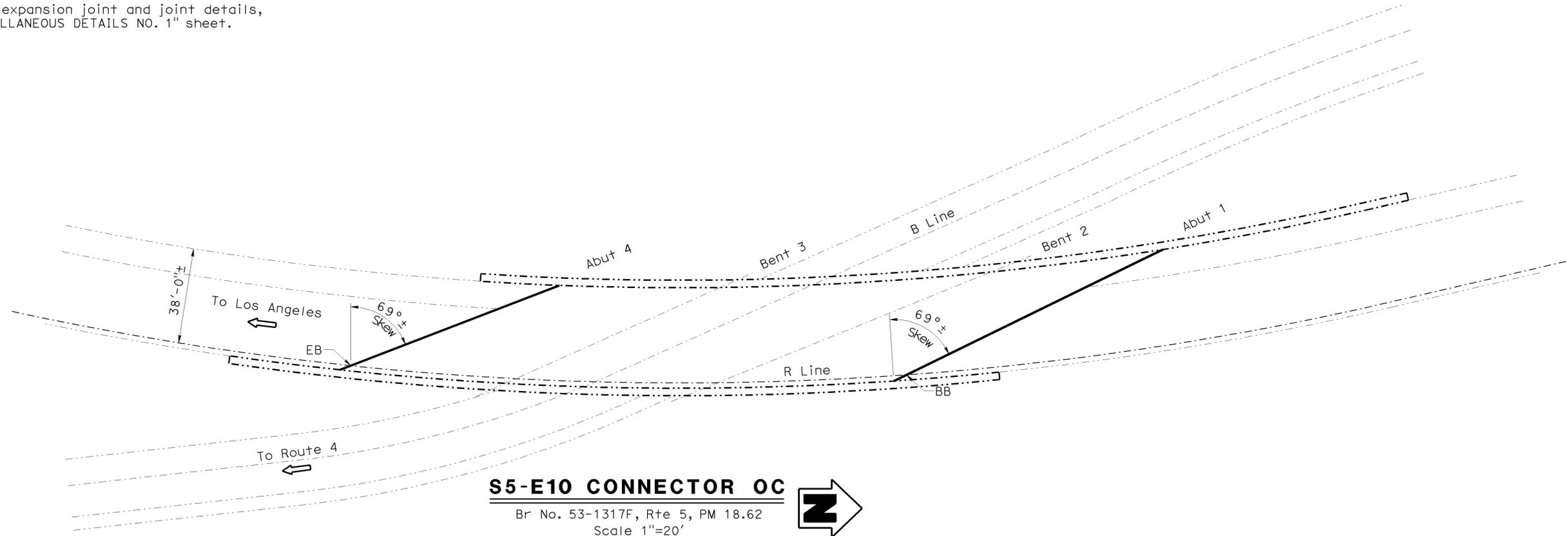
REGISTERED CIVIL ENGINEER DATE 12-19-12  
 PLANS APPROVAL DATE 3-4-13  
 No. C65380  
 Exp. 09/30/13  
 CIVIL  
 STATE OF CALIFORNIA  
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

**LEGEND:**

- Indicates existing.
- ⇒ Indicates direction of traffic.
- Indicates location of existing joint seal removal and placement of new joint seal. Prior to placement of new joint seal repair joint with unsound concrete, and rapid setting concrete (patch).

**NOTE:**

For clean expansion joint and joint details, see "MISCELLANEOUS DETAILS NO. 1" sheet.



**S5-E10 CONNECTOR OC**  
 Br No. 53-1317F, Rte 5, PM 18.62  
 Scale 1"=20'

S5-E10 CONNECTOR OC #53-1317F

QUANTITIES

RAPID SETTING CONCRETE (PATCH)	2 CF
REMOVE UNSOUND CONCRETE	2 CF
CLEAN EXPANSION JOINT	212 LF
JOINT SEAL (MR 1 1/2")	212 LF

NOTE:  
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITIES FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

<b>TONY D. BRAKE</b> DESIGN ENGINEER	DESIGN	BY Gerald Joo	CHECKED Edward Li	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	<b>ROUTES 5 &amp; 134 BRIDGES</b> <b>GENERAL PLAN NO. 2</b>						
	DETAILS	BY Clayton Tom	CHECKED Gerald Joo	LAYOUT	BY Clayton Tom		CHECKED Gerald Joo		POST MILE					
	QUANTITIES	BY Gerald Joo	CHECKED Ramesh Patel	SPECIFICATIONS	BY James Choi		CHECKED James Choi		PLANS AND SPECS COMPARED	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: 0700021243 1	CONTRACT NO.: 07-1W3301	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 02	OF 24

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,134	18.5/31.2, L4.5/L5.0	23	44

REGISTERED CIVIL ENGINEER DATE 12-19-12  
 PLANS APPROVAL DATE 3-4-13  
 No. C65380  
 Exp. 09/30/13  
 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:**

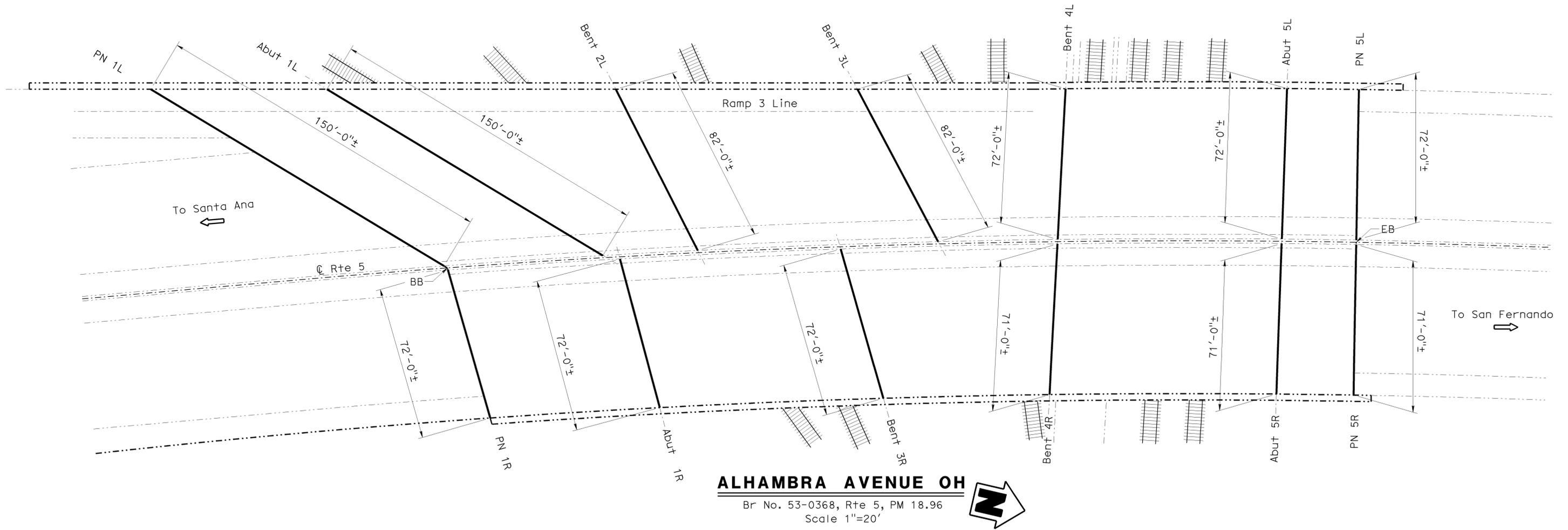
- Indicates existing.
- ⇒ Indicates direction of traffic.
- Indicates location of existing joint seal removal and placement of new joint seal. Prior to placement of new joint seal repair joint with unsound concrete, and rapid setting concrete (patch).

**NOTE:**

For clean expansion joint and joint details, see "MISCELLANEOUS DETAILS NO. 1" sheet.

ALHAMBRA AVENUE OH #53-0368  
QUANTITIES

RAPID SETTING CONCRETE (PATCH)	10 CF
REMOVE UNSOUND CONCRETE	10 CF
CLEAN EXPANSION JOINT	1,109 LF
JOINT SEAL (MR 1")	1,109 LF

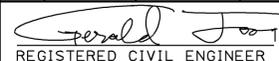


NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITIES FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

<b>TONY D. BRAKE</b> DESIGN ENGINEER	DESIGN	BY Gerald Joo	CHECKED Edward Li	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
	DETAILS	BY Clayton Tom	CHECKED Gerald Joo	LAYOUT	BY Clayton Tom
	QUANTITIES	BY Gerald Joo	CHECKED Ramesh Patel	SPECIFICATIONS	BY James Choi

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	Various
	POST MILE	Varies
	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	

<b>ROUTES 5 &amp; 134 BRIDGES</b> <b>GENERAL PLAN NO. 3</b>	
UNIT: 3489	PROJECT NUMBER & PHASE: 0700021243 1
CONTRACT NO.: 07-1W3301	DISREGARD PRINTS BEARING EARLIER REVISION DATES

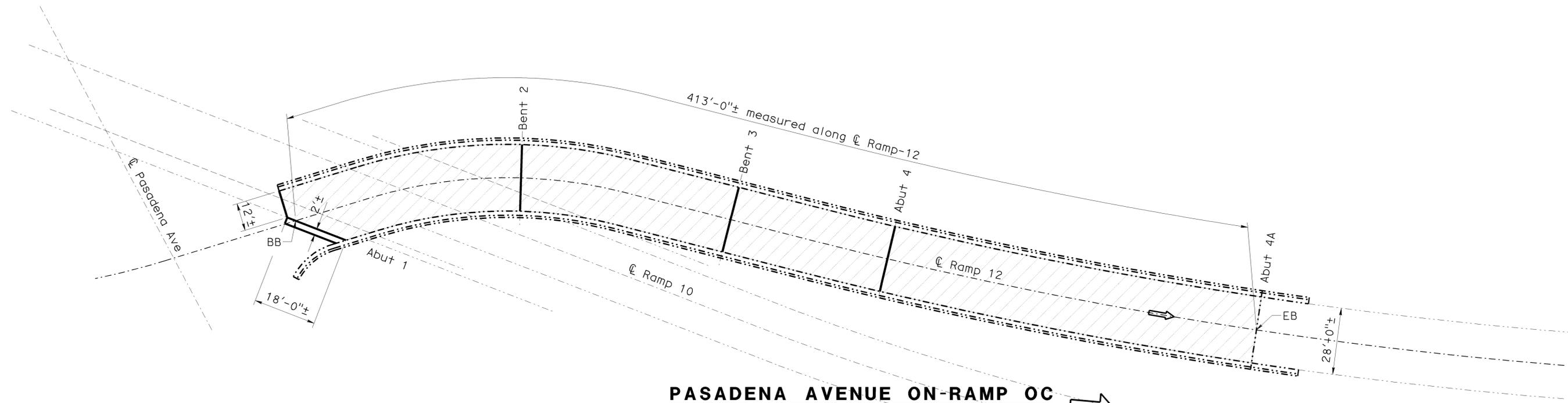
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,134	18.5/31.2, L4.5/L5.0	24	44
 REGISTERED CIVIL ENGINEER DATE 12-19-12					
3-4-13			PLANS APPROVAL DATE		
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					

**LEGEND:**

- Indicates existing.
- Indicates direction of traffic.
-  Indicates limits of prepare, treat, and furnish existing bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment.
- Indicates location of existing joint seal removal and placement of new joint seal. Prior to placement of new joint seal repair joint with unsound concrete, and rapid setting concrete (patch).

**NOTE:**

For clean expansion joint and joint details, see "MISCELLANEOUS DETAILS NO. 1" sheet.



**PASADENA AVENUE ON-RAMP OC**

Br No. 53-1404S, Rte 5, PM 20.00  
Scale 1"=20'

PASADENA AVENUE ON-RAMP OC #53-1404S  
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
RAPID SETTING CONCRETE (PATCH)	3 CF
REMOVE UNSOUND CONCRETE	3 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	11,600 SQFT
TREAT BRIDGE DECK	11,600 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	145 GAL
CLEAN EXPANSION JOINT	134 LF
JOINT SEAL (MR 1")	134 LF

NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITIES FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

<b>TONY D. BRAKE</b> DESIGN ENGINEER	DESIGN	BY Gerald Joo	CHECKED Edward Li	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	<b>ROUTES 5 &amp; 134 BRIDGES</b> <b>GENERAL PLAN NO. 4</b>				
	DETAILS	BY Clayton Tom	CHECKED Gerald Joo	LAYOUT	BY Clayton Tom		Checked Gerald Joo		Various			
	QUANTITIES	BY Gerald Joo	CHECKED Ramesh Patel	SPECIFICATIONS	BY James Choi		PLANS AND SPECS COMPARED James Choi		Varies			
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3489 PROJECT NUMBER & PHASE: 0700021243 1	CONTRACT NO.: 07-1W3301	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 04	OF 24

USERNAME => s117283 DATE PLOTTED => 19-DEC-2012 TIME PLOTTED => 11:16  
 FILE => 07-1w3301-a-gp04.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,134	18.5/31.2, L4.5/L5.0	25	44

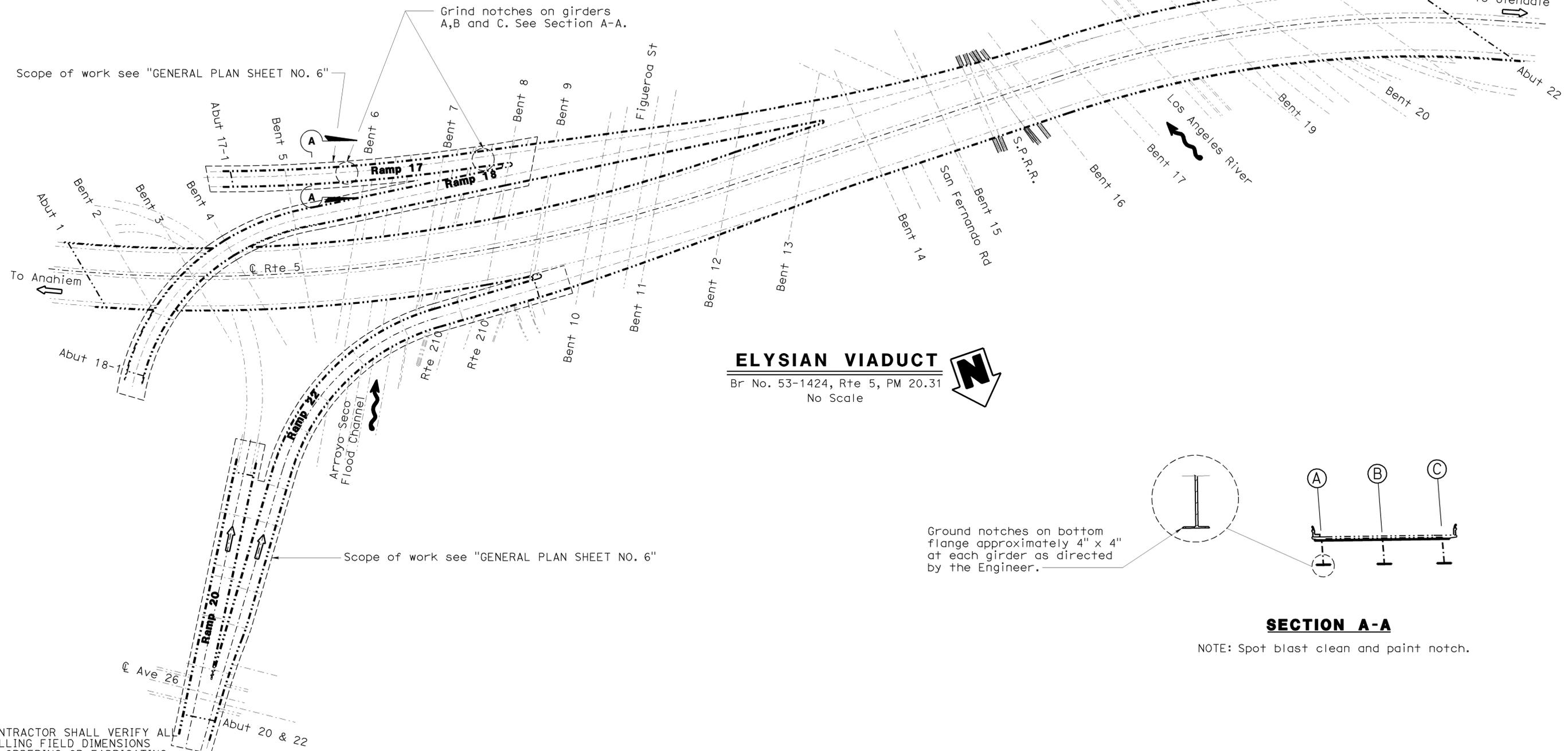
REGISTERED CIVIL ENGINEER DATE 12-19-12  
 PLANS APPROVAL DATE 3-4-13  
 No. C65380 Exp. 09/30/13  
 CIVIL  
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

**LEGEND:**

- Indicates existing.
- ⇒ Indicates direction of traffic.
- Indicates location of install new joint seal.

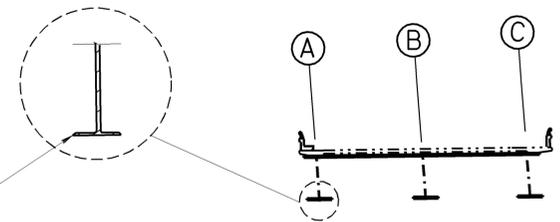
ELYSIAN VIADUCT #53-1424  
QUANTITIES

RAPID SETTING CONCRETE (PATCH)	12 CF
REMOVE UNSOUND CONCRETE	12 CF
CLEAN EXPANSION JOINT	625 LF
JOINT SEAL (MR 1")	625 LF
SPOT BLAST CLEAN AND PAINT UNDERCOAT	1 SQFT



**ELYSIAN VIADUCT**  
Br No. 53-1424, Rte 5, PM 20.31  
No Scale

Ground notches on bottom flange approximately 4" x 4" at each girder as directed by the Engineer.



**SECTION A-A**

NOTE: Spot blast clean and paint notch.

NOTE:  
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<b>TONY D. BRAKE</b> DESIGN ENGINEER	DESIGN	BY Gerald Joo	CHECKED Edward Li	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	<b>DIVISION OF MAINTENANCE</b> STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	<b>ROUTES 5 &amp; 134 BRIDGES</b> GENERAL PLAN NO. 5			
	DETAILS	BY Clayton Tom	CHECKED Gerald Joo	LAYOUT	BY Clayton Tom			CHECKED Gerald Joo		VARIOUS		
	QUANTITIES	BY Gerald Joo	CHECKED Ramesh Patel	SPECIFICATIONS	BY James Choi			CHECKED James Choi		VARIES		
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3489 PROJECT NUMBER & PHASE: 0700021243 1	CONTRACT NO.: 07-1W3301	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 05	OF 24

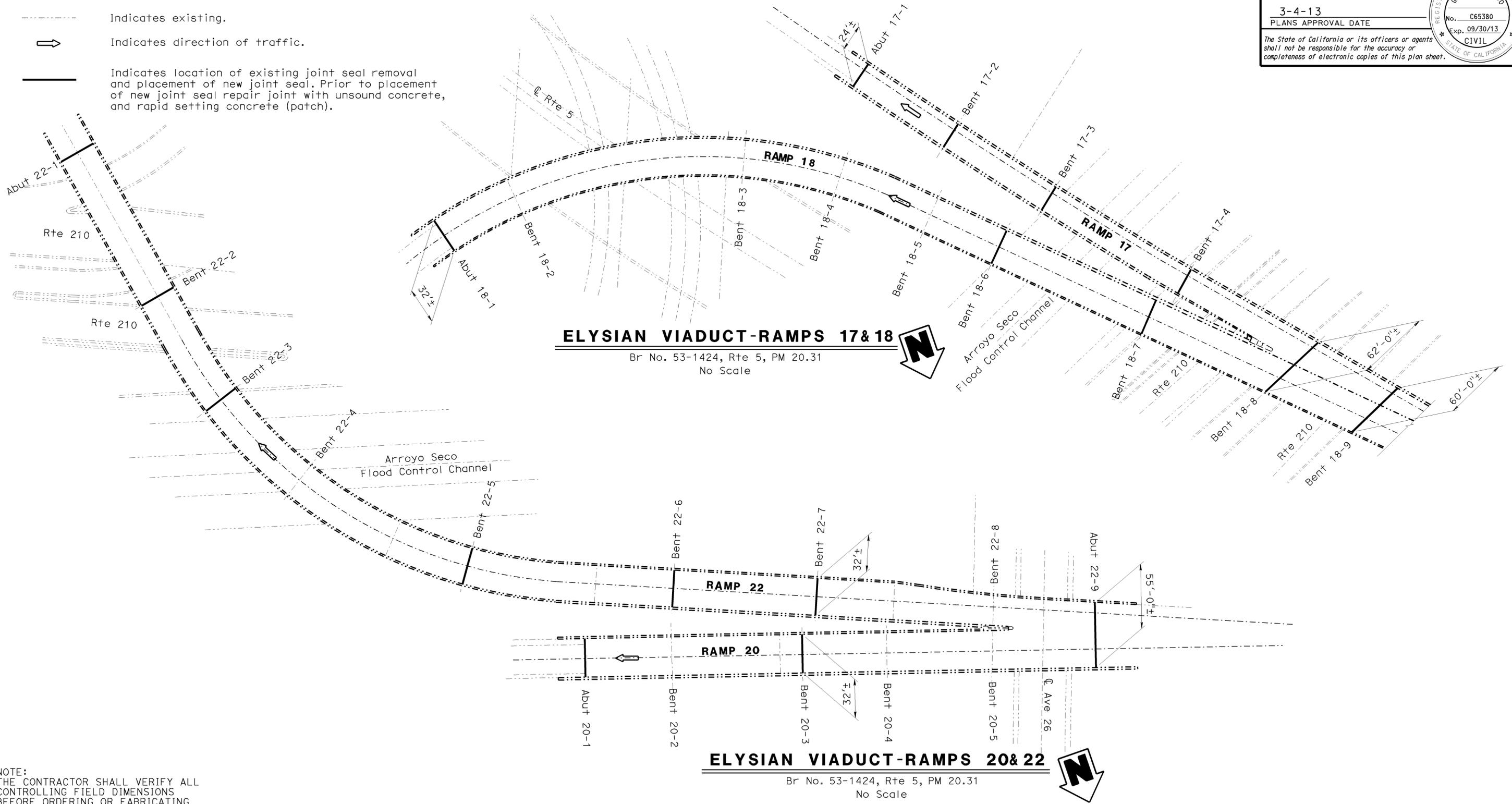
USERNAME => s117283 DATE PLOTTED => 19-DEC-2012 TIME PLOTTED => 11:16  
 FILE => 07-1w3301-a-gp05.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,134	18.5/31.2, L4.5/L5.0	26	44

12-19-12  
 REGISTERED CIVIL ENGINEER DATE  
 3-4-13  
 PLANS APPROVAL DATE  
 No. C65380  
 Exp. 09/30/13  
 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:**

- - - - - Indicates existing.
- ⇒ Indicates direction of traffic.
- Indicates location of existing joint seal removal and placement of new joint seal. Prior to placement of new joint seal repair joint with unsound concrete, and rapid setting concrete (patch).



NOTE:  
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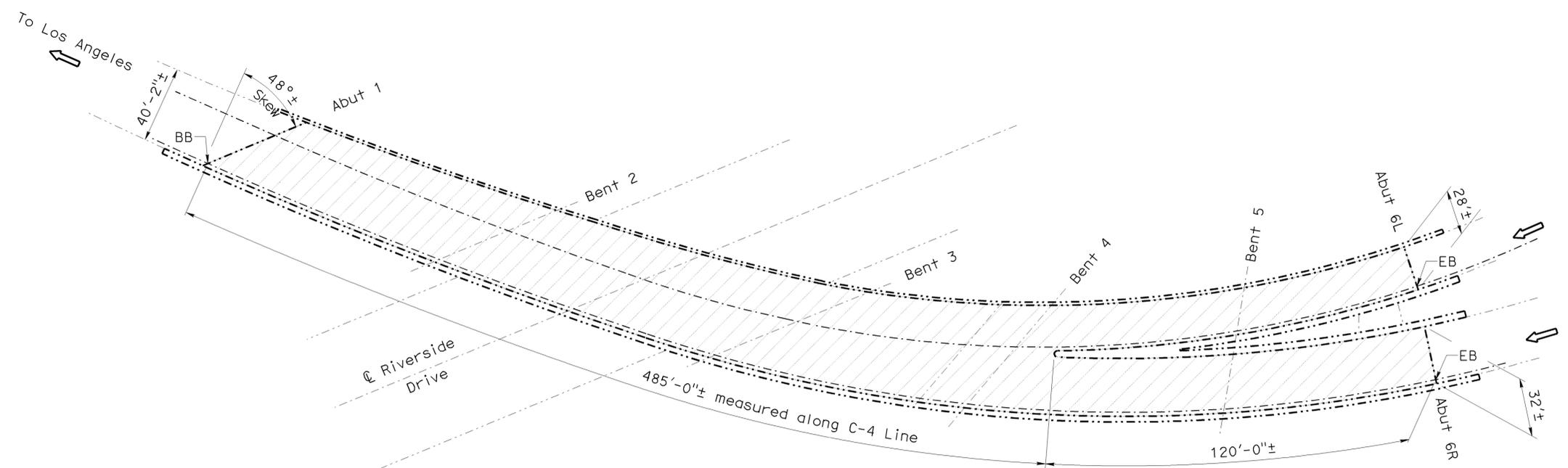
<b>TONY D. BRAKE</b> DESIGN ENGINEER	DESIGN	BY Gerald Joo	CHECKED Edward Li	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
	DETAILS	BY Clayton Tom	CHECKED Gerald Joo	LAYOUT	BY Clayton Tom
	QUANTITIES	BY Gerald Joo	CHECKED Ramesh Patel	SPECIFICATIONS	BY James Choi

<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE	BRIDGE NO.
	STRUCTURE MAINTENANCE DESIGN	Various
		POST MILE

<b>ROUTES 5 &amp; 134 BRIDGES</b>	
<b>GENERAL PLAN NO. 6</b>	

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,134	18.5/31.2, 4.5/5.0	27	44

REGISTERED CIVIL ENGINEER DATE 12-19-12  
 3-4-13  
 PLANS APPROVAL DATE  
 No. C65380  
 Exp. 09/30/13  
 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.



**RIVERSIDE DRIVE UC (S5-W2)**  
 Br No. 53-0559F, Rte 5, PM 22.48  
 Scale 1"=20'

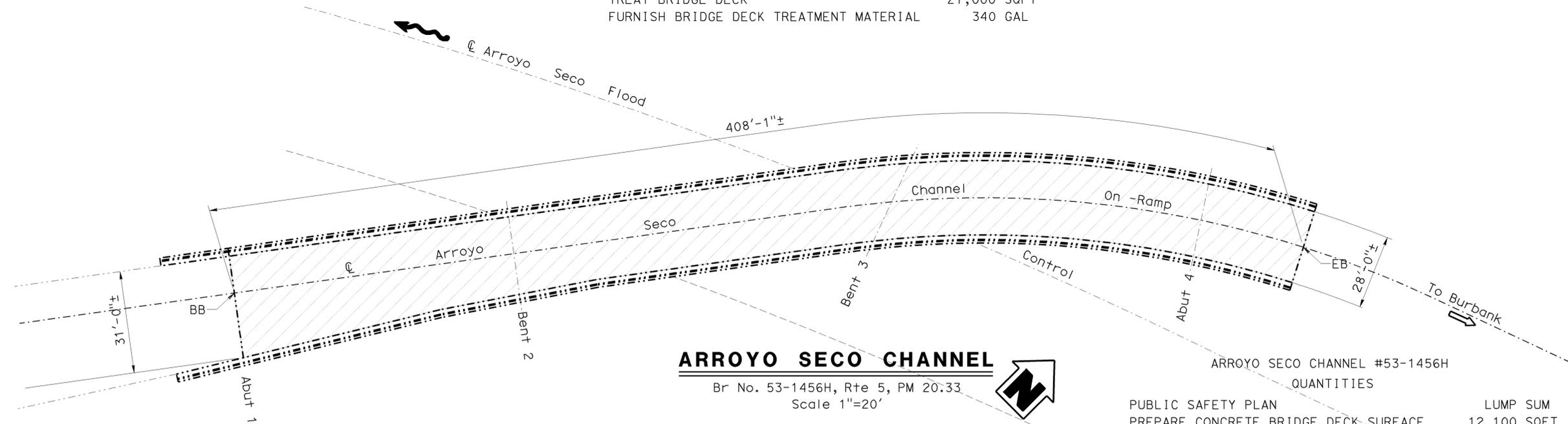


RIVERSIDE DRIVE UC (S5-W2) #53-0559F  
 QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	27,000 SQFT
TREAT BRIDGE DECK	27,000 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	340 GAL

**LEGEND:**

- Indicates existing.
- ➔ Indicates direction of traffic.
- ▨ Indicates limits of prepare, treat, and furnish existing bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment.



**ARROYO SECO CHANNEL**  
 Br No. 53-1456H, Rte 5, PM 20.33  
 Scale 1"=20'



ARROYO SECO CHANNEL #53-1456H  
 QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	12,100 SQFT
TREAT BRIDGE DECK	12,100 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	155 GAL

NOTE:  
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITIES FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

DESIGN ENGINEER <b>TONY D. BRAKE</b>	DESIGN	BY Gerald Joo	CHECKED Edward Li	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
	DETAILS	BY Clayton Tom	CHECKED Gerald Joo	LAYOUT	BY Clayton Tom
	QUANTITIES	BY Gerald Joo	CHECKED Ramesh Patel	SPECIFICATIONS	BY James Choi

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	Varies
POST MILE	Varies

**ROUTES 5 & 134 BRIDGES**  
**GENERAL PLAN NO. 7**

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

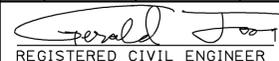
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



UNIT: 3489  
 PROJECT NUMBER & PHASE: 0700021243 1 CONTRACT NO.: 07-1W3301

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
05-08-12 05-28-12 12-10-12 12-19-12	07	24

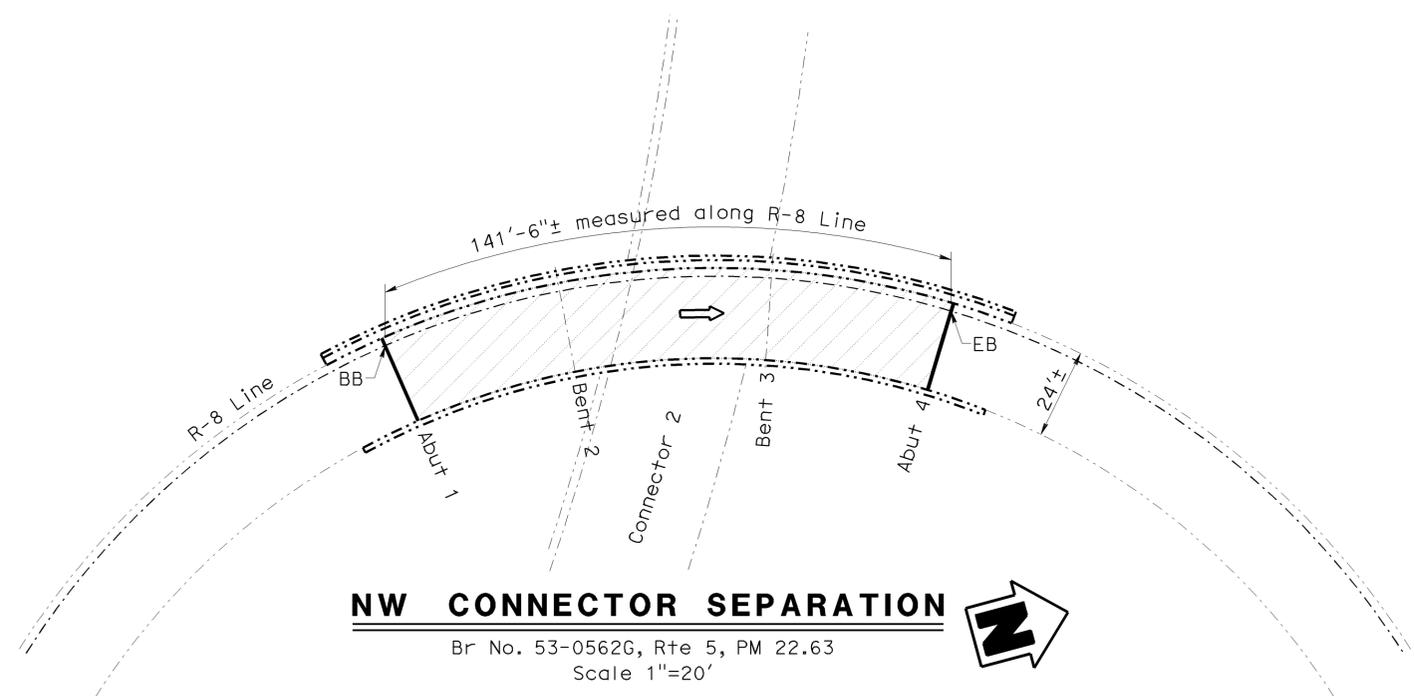
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,134	18.5/31.2, 14.5/15.0	28	44
 REGISTERED CIVIL ENGINEER DATE 12-19-12					
3-4-13			PLANS APPROVAL DATE		
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					

**LEGEND:**

- Indicates existing.
- ⇒ Indicates direction of traffic.
-  Indicates limits of prepare, treat, and furnish existing bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment.
- Indicates location of existing joint seal removal and placement of new joint seal. Prior to placement of new joint seal repair joint with unsound concrete, and rapid setting concrete (patch).

**NOTE:**

For clean expansion joint and joint details, see "MISCELLANEOUS DETAILS NO. 1" sheet.



**NW CONNECTOR SEPARATION**

Br No. 53-0562G, Rte 5, PM 22.63  
Scale 1"=20'

**QUANTITIES**

PUBLIC SAFETY PLAN	LUMP SUM
RAPID SETTING CONCRETE (PATCH)	2 CF
REMOVE UNSOUND CONCRETE	2 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	3,500 SQFT
TREAT BRIDGE DECK	3,500 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	45 GAL
CLEAN EXPANSION JOINT	48 LF
JOINT SEAL (MR 1")	48 LF

NOTE:  
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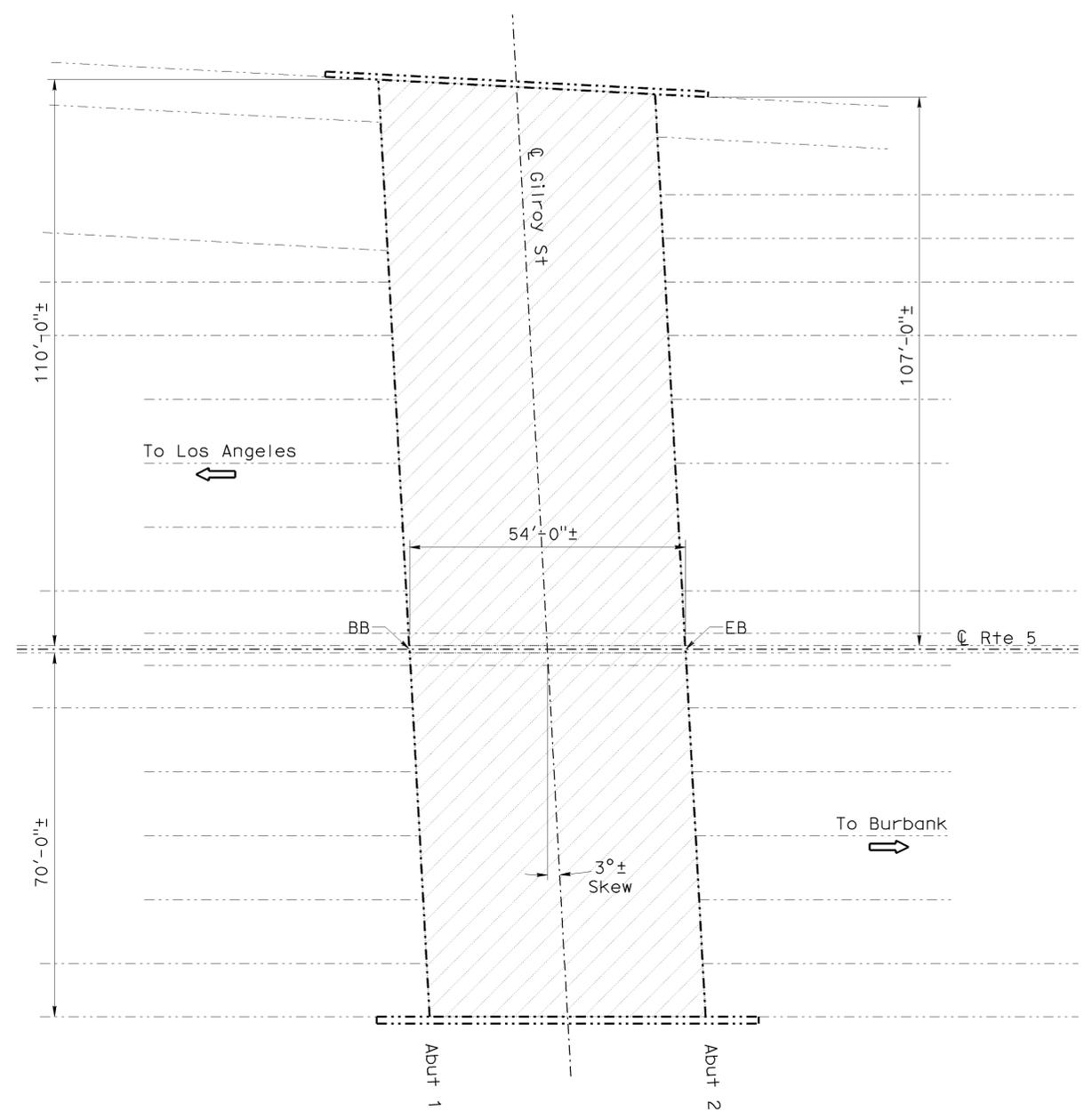
 DESIGN ENGINEER	DESIGN	BY Gerald Joo	CHECKED Edward Li	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	<b>ROUTES 5 &amp; 134 BRIDGES</b> <b>GENERAL PLAN NO. 8</b>					
	DETAILS	BY Clayton Tom	CHECKED Gerald Joo	LAYOUT	BY Clayton Tom			CHECKED Gerald Joo		POST MILE				
	QUANTITIES	BY Gerald Joo	CHECKED Ramesh Patel	SPECIFICATIONS	BY James Choi	CHECKED James Choi	PLANS AND SPECS COMPARED	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: 0700021243 1	CONTRACT NO.: 07-1W3301	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 08	OF 24

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,134	18.5/31.2, 4.5/5.0	29	44

12-19-12  
 REGISTERED CIVIL ENGINEER DATE  
 3-4-13  
 PLANS APPROVAL DATE  
 No. C65380  
 Exp. 09/30/13  
 CIVIL  
 STATE OF CALIFORNIA  
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**LEGEND:**

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- ⇒ Indicates direction of traffic.
- ▨ Indicates limits of prepare, treat, and furnish existing bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment.



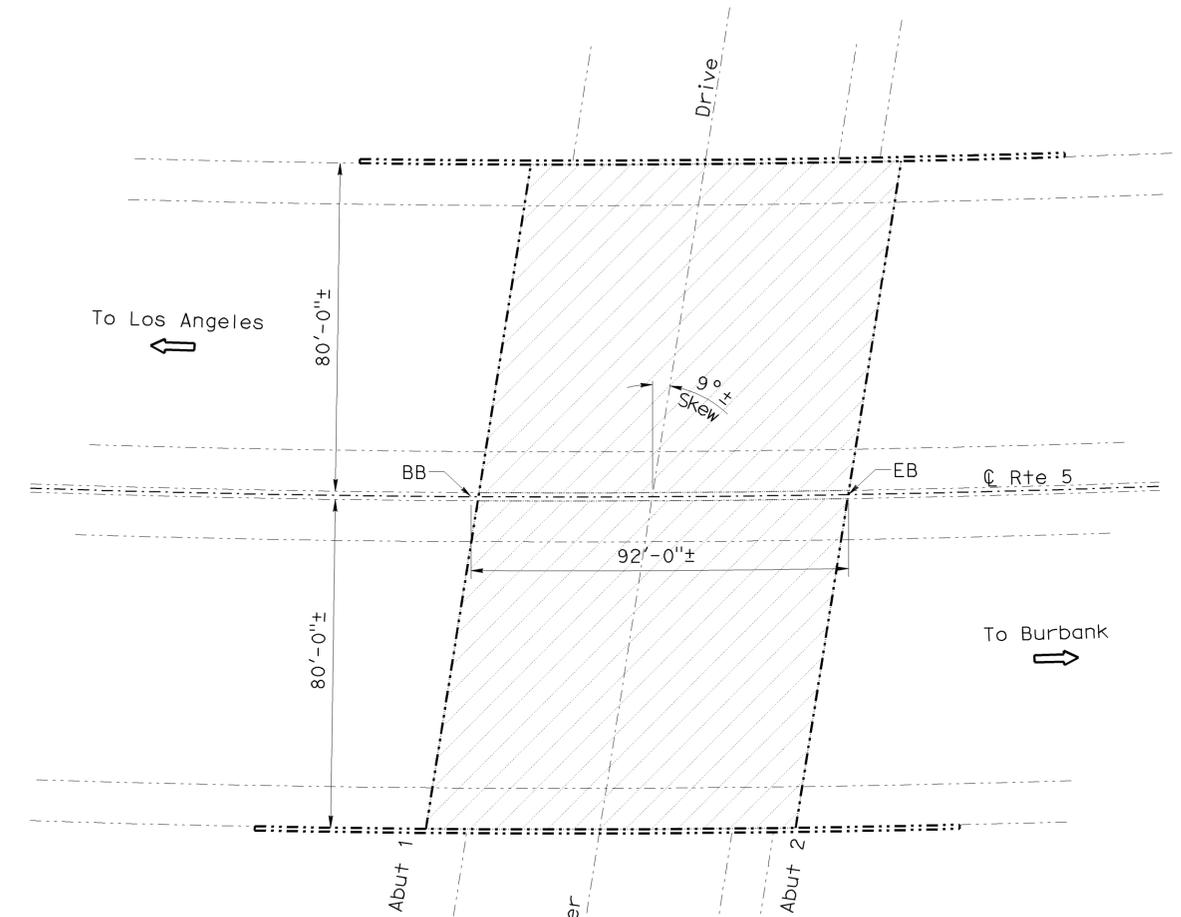
**GILROY STREET UC**

Br No. 53-0164, Rte 5, PM 22.78  
No Scale

GILROY STREET UC #53-0164  
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	10,000 SQFT
TREAT BRIDGE DECK	10,000 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	125 GAL

NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITIES FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.



**FLETCHER DRIVE UC**

Br No. 53-1084, Rte 5, PM 22.97  
Scale 1"=20'

FLETCHER DRIVE UC #53-1084  
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	15,000 SQFT
TREAT BRIDGE DECK	15,000 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	190 GAL

<b>TONY D. BRAKE</b> DESIGN ENGINEER	DESIGN	BY Gerald Joo	CHECKED Edward Li	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
	DETAILS	BY Clayton Tom	CHECKED Gerald Joo	LAYOUT	BY Clayton Tom
	QUANTITIES	BY Gerald Joo	CHECKED Ramesh Patel	SPECIFICATIONS	BY James Choi

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various  
POST MILE Varies

**ROUTES 5 & 134 BRIDGES  
GENERAL PLAN NO. 9**

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

UNIT: 3489  
PROJECT NUMBER & PHASE: 0700021243 1 CONTRACT NO.: 07-1W3301

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
05-08-12 05-28-12 12-10-12 12-19-12	09	24

USERNAME => s117283 DATE PLOTTED => 19-DEC-2012 TIME PLOTTED => 11:17

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,134	18.5/31.2, 4.5/5.0	30	44

REGISTERED CIVIL ENGINEER  
 No. C65380  
 Exp. 09/30/13  
 CIVIL  
 STATE OF CALIFORNIA

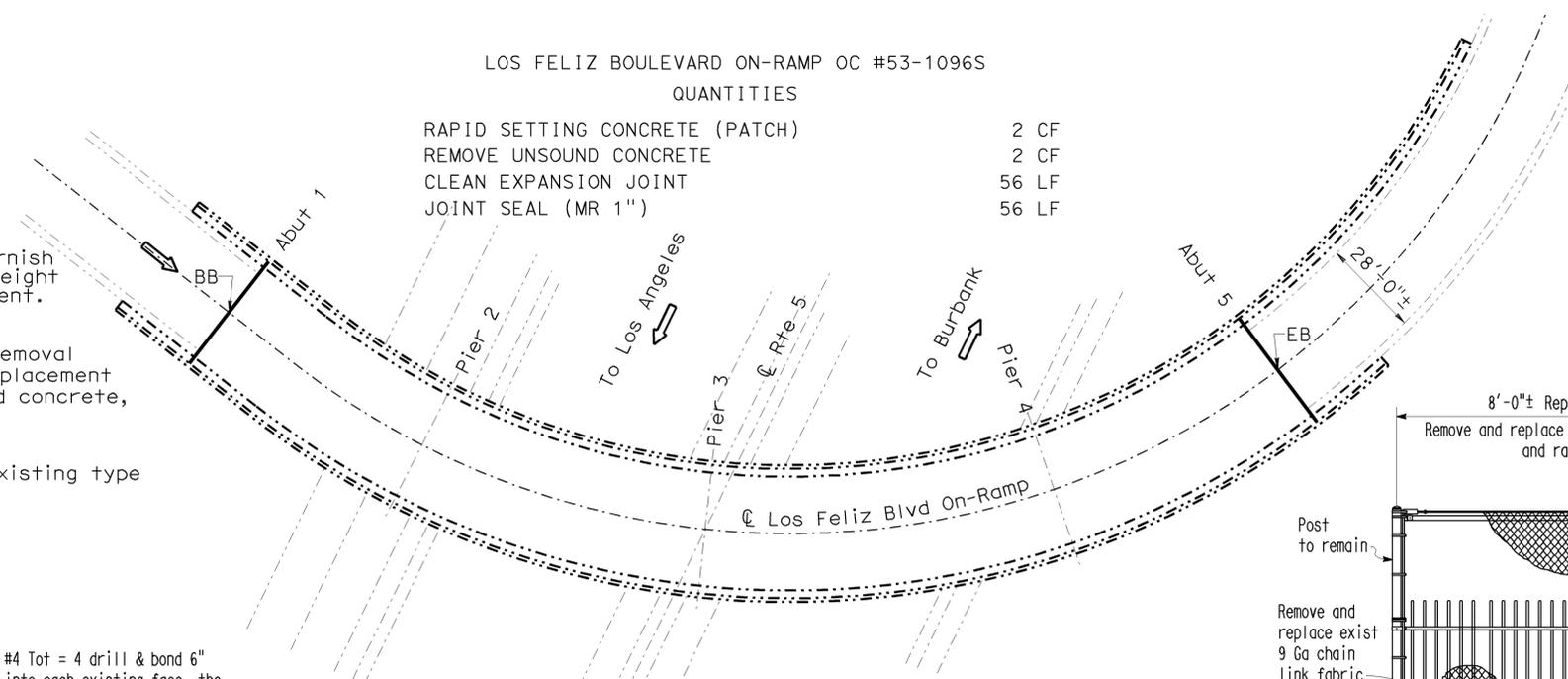
12-19-12  
 3-4-13  
 PLANS APPROVAL DATE

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

**LEGEND:**

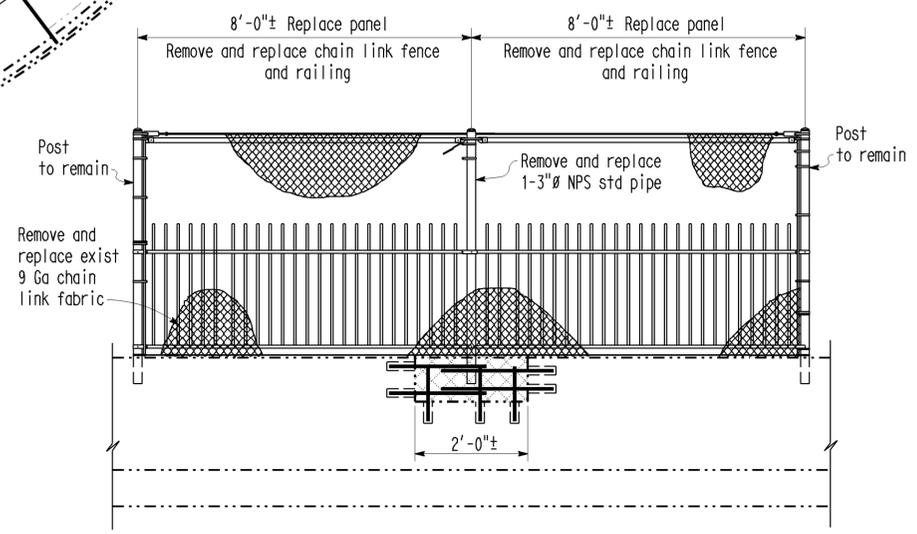
- Indicates existing.
- Indicates direction of traffic.
- ▨ Indicates limits of prepare, treat, and furnish existing bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment.
- Indicates location of existing joint seal removal and placement of new joint seal. Prior to placement of new joint seal repair joint with unsound concrete, and rapid setting concrete (patch).
- ▩ Indicates remove and replace portion of existing type 6 concrete barrier.

LOS FELIZ BOULEVARD ON-RAMP OC #53-1096S  
 QUANTITIES  
 RAPID SETTING CONCRETE (PATCH) 2 CF  
 REMOVE UNSOUND CONCRETE 2 CF  
 CLEAN EXPANSION JOINT 56 LF  
 JOINT SEAL (MR 1") 56 LF



**LOS FELIZ BOULEVARD ON-RAMP OC**

Br No. 53-1096S, Rte 5, PM 24.21  
 Scale 1"=20'

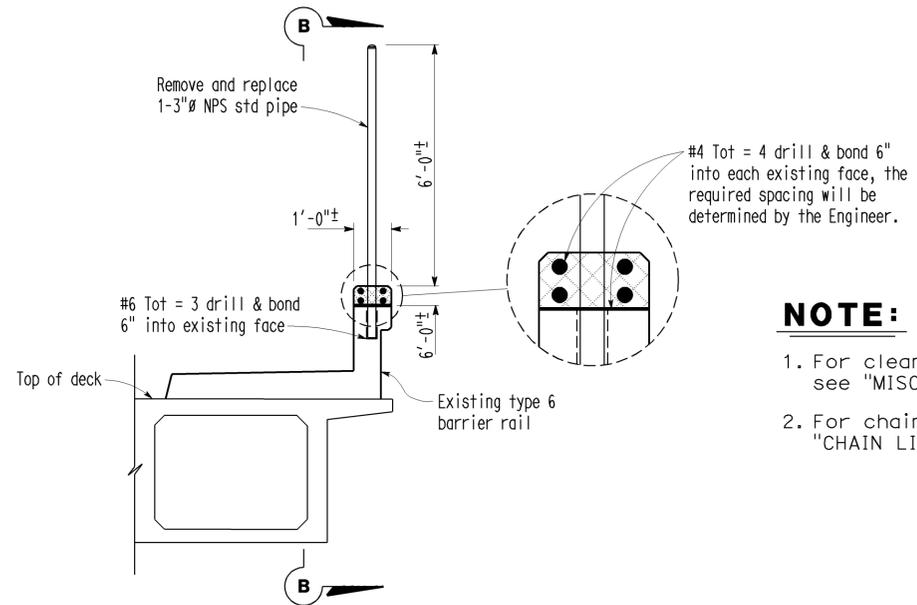


**SECTION B-B**

No Scale

**NOTE:**

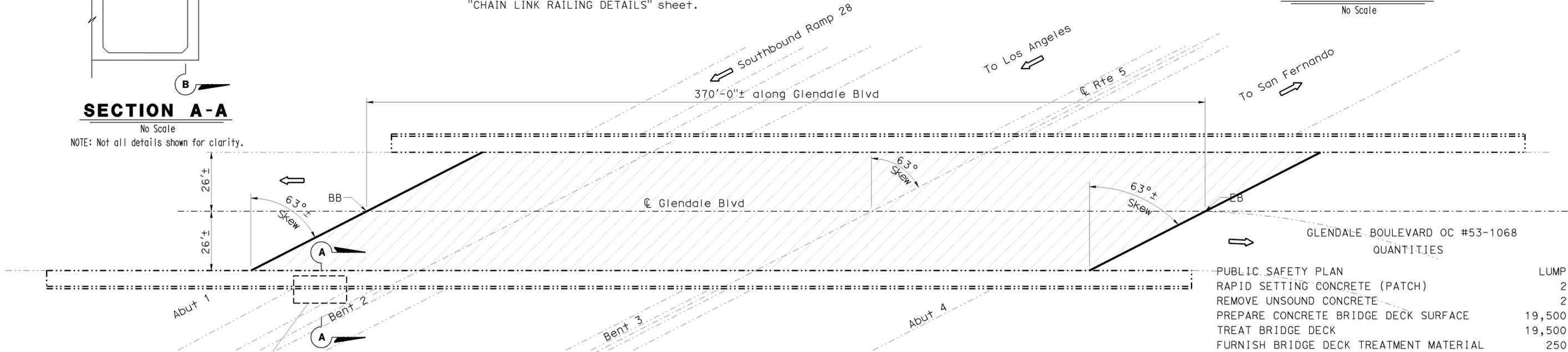
- For clean expansion joint and joint details, see "MISCELLANEOUS DETAILS NO. 1" sheet.
- For chain link railing details see "CHAIN LINK RAILING DETAILS" sheet.



**SECTION A-A**

No Scale

NOTE: Not all details shown for clarity.



**GLENDALE BOULEVARD OC**

Br No. 53-1068, Rte 5, PM 23.66  
 Scale 1"=20'

GLENDALE BOULEVARD OC #53-1068  
 QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
RAPID SETTING CONCRETE (PATCH)	2 CF
REMOVE UNSOUND CONCRETE	2 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	19,500 SQFT
TREAT BRIDGE DECK	19,500 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	250 GAL
BRIDGE REMOVAL (PORTION)	LUMP SUM
STRUCTURAL CONCRETE, BRIDGE	1 CY
CLEAN EXPANSION JOINT	230 LF
JOINT SEAL (MR 2") BONDED	230 LF

NOTE:  
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITIES FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

<b>TONY D. BRAKE</b> DESIGN ENGINEER	DESIGN	BY Gerald Joo	CHECKED Edward Li	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	<b>ROUTES 5 &amp; 134 BRIDGES</b> <b>GENERAL PLAN NO. 10</b>	
	DETAILS	BY Clayton Tom	CHECKED Gerald Joo	LAYOUT	BY Clayton Tom		CHECKED Gerald Joo		Various
	QUANTITIES	BY Gerald Joo	CHECKED Ramesh Patel	SPECIFICATIONS	BY James Choi		CHECKED James Choi		Varies

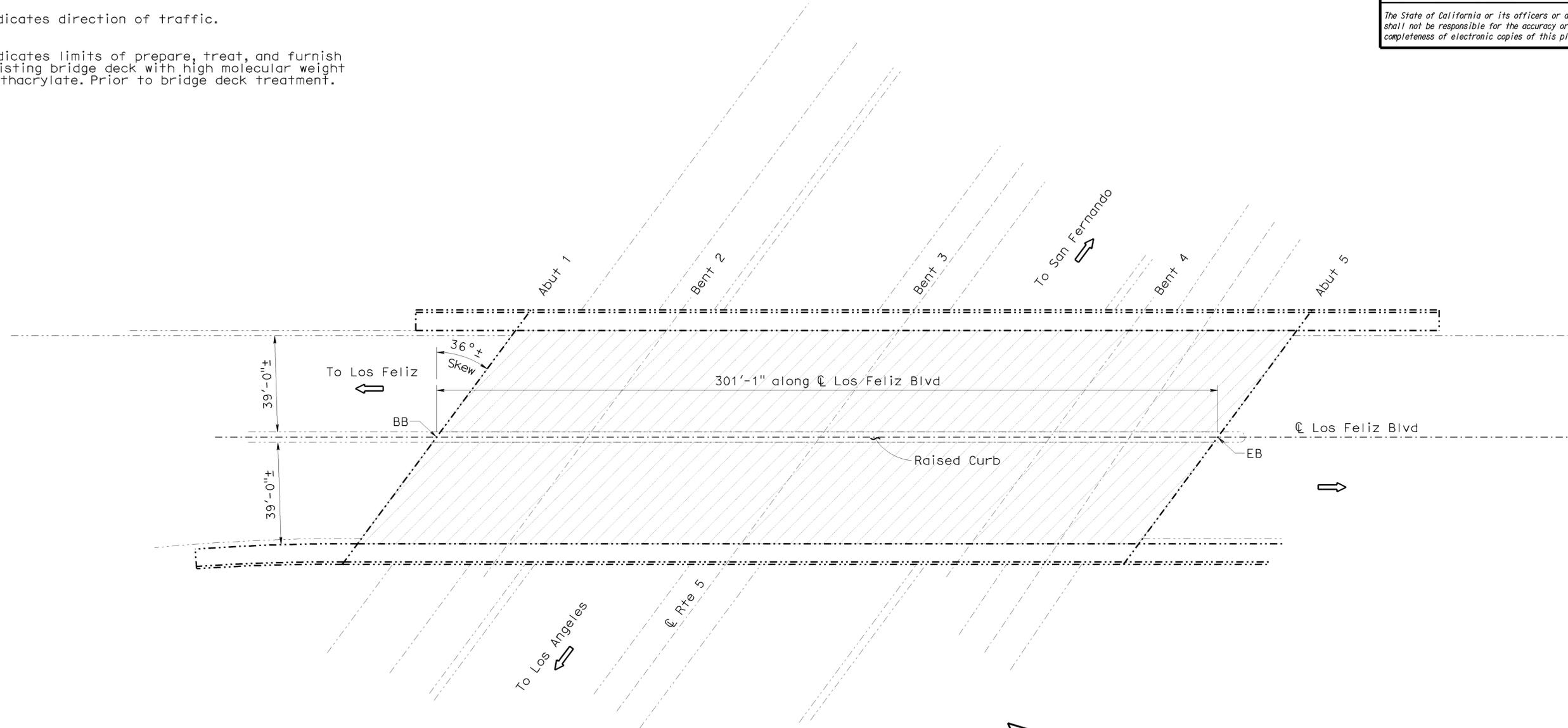
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3  
 UNIT: 3489 PROJECT NUMBER & PHASE: 0700021243 1 CONTRACT NO.: 07-1W3301  
 DISREGARD PRINTS BEARING EARLIER REVISION DATES  
 REVISION DATES: 05-08-12, 05-29-12, 12-10-12, 12-19-12  
 SHEET 10 OF 24  
 FILE => 07-1w3301-a-gp10.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,134	18.5/31.2, L4.5/L5.0	31	44

REGISTERED CIVIL ENGINEER DATE 12-19-12  
 PLANS APPROVAL DATE 3-4-13  
 No. C65380  
 Exp. 09/30/13  
 CIVIL  
 STATE OF CALIFORNIA  
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**LEGEND:**

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- ⇒ Indicates direction of traffic.
- ▨ Indicates limits of prepare, treat, and furnish existing bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment.



**LOS FELIZ BOULEVARD ON-RAMP OC**

Br No. 53-1070, Rte 5, PM 24.33  
Scale 1"=20'

LOS FELIZ BOULEVARD OC #53-1070  
QUANTITIES

	LUMP SUM
PUBLIC SAFETY PLAN	
PREPARE CONCRETE BRIDGE DECK SURFACE	24,000 SQFT
TREAT BRIDGE DECK	24,000 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	300 GAL

NOTE:  
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<b>TONY D. BRAKE</b> DESIGN ENGINEER	DESIGN	BY Gerald Joo	CHECKED Edward Li	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	<b>ROUTES 5 &amp; 134 BRIDGES</b> <b>GENERAL PLAN NO. 11</b>		
	DETAILS	BY Clayton Tom	CHECKED Gerald Joo	LAYOUT	BY Clayton Tom			CHECKED Gerald Joo		POST MILE	
	QUANTITIES	BY Gerald Joo	CHECKED Ramesh Patel	SPECIFICATIONS	BY James Choi			CHECKED James Choi		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: 0700021243 1	CONTRACT NO.: 07-1W3301	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 11 OF 24

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,134	18.5/31.2, L4.5/L5.0	32	44

*Gerald Joo* 12-19-12  
REGISTERED CIVIL ENGINEER DATE

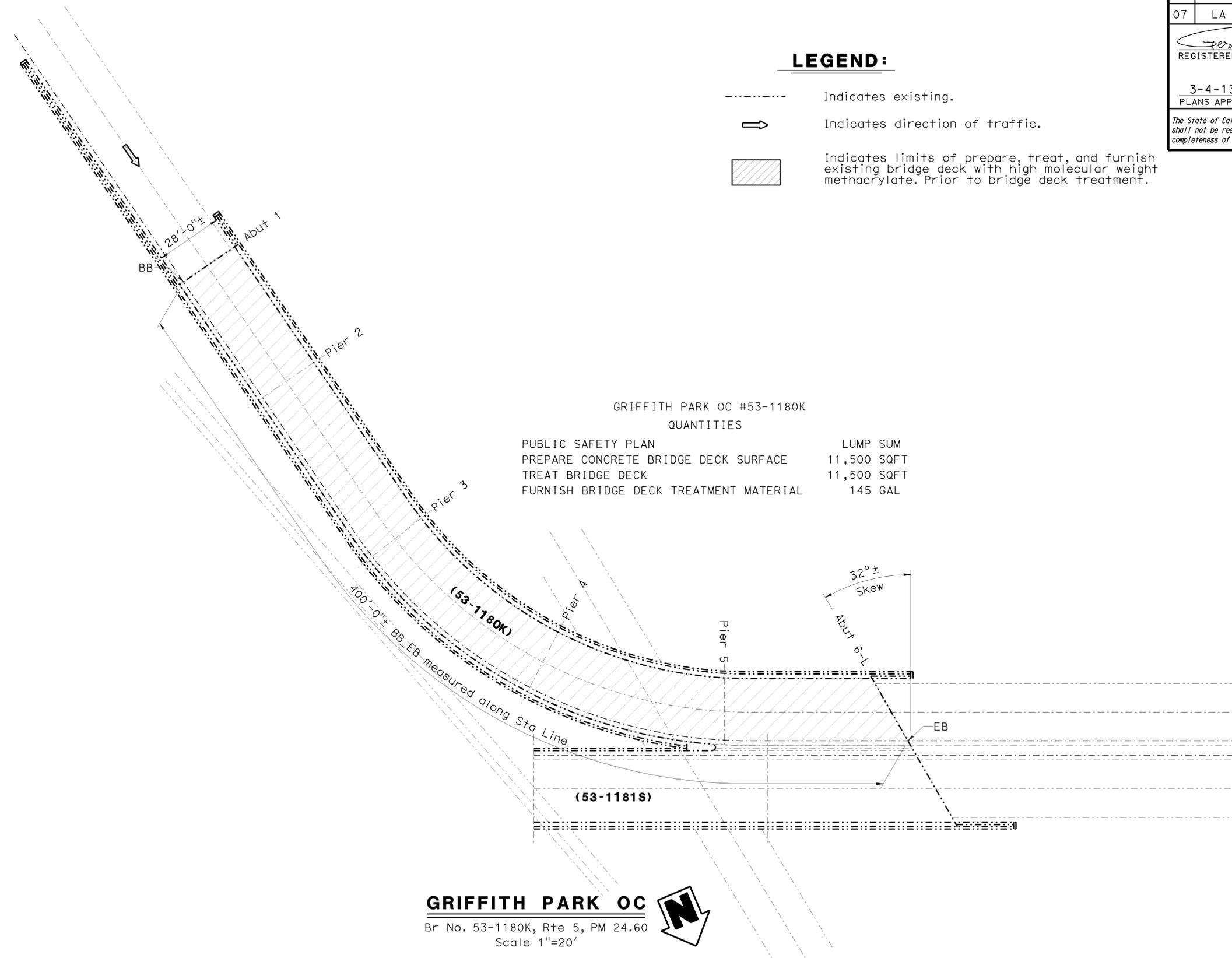
3-4-13  
PLANS APPROVAL DATE

No. C65380  
Exp. 09/30/13  
CIVIL

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GRIFFITH PARK OC #53-1180K  
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	11,500 SQFT
TREAT BRIDGE DECK	11,500 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	145 GAL

**GRIFFITH PARK OC**  
Br No. 53-1180K, Rte 5, PM 24.60  
Scale 1"=20'

NOTE:  
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<b>TONY D. BRAKE</b> DESIGN ENGINEER	DESIGN	BY Gerald Joo	CHECKED Edward Li	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	<b>DIVISION OF MAINTENANCE</b> <b>STRUCTURE MAINTENANCE DESIGN</b>	BRIDGE NO.	<b>ROUTES 5 &amp; 134 BRIDGES</b> <b>GENERAL PLAN NO. 12</b>		
	DETAILS	BY Clayton Tom	CHECKED Gerald Joo	LAYOUT	BY Clayton Tom			CHECKED Gerald Joo		POST MILE	
	QUANTITIES	BY Gerald Joo	CHECKED Ramesh Patel	SPECIFICATIONS	BY James Choi			CHECKED PLANS AND SPECS COMPARED James Choi		Varies	
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3489 PROJECT NUMBER & PHASE: 0700021243 1	CONTRACT NO.: 07-1W3301	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 12 OF 24

FILE => 07-1w3301-a-gp12.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,134	18.5/31.2, 4.5/5.0	33	44

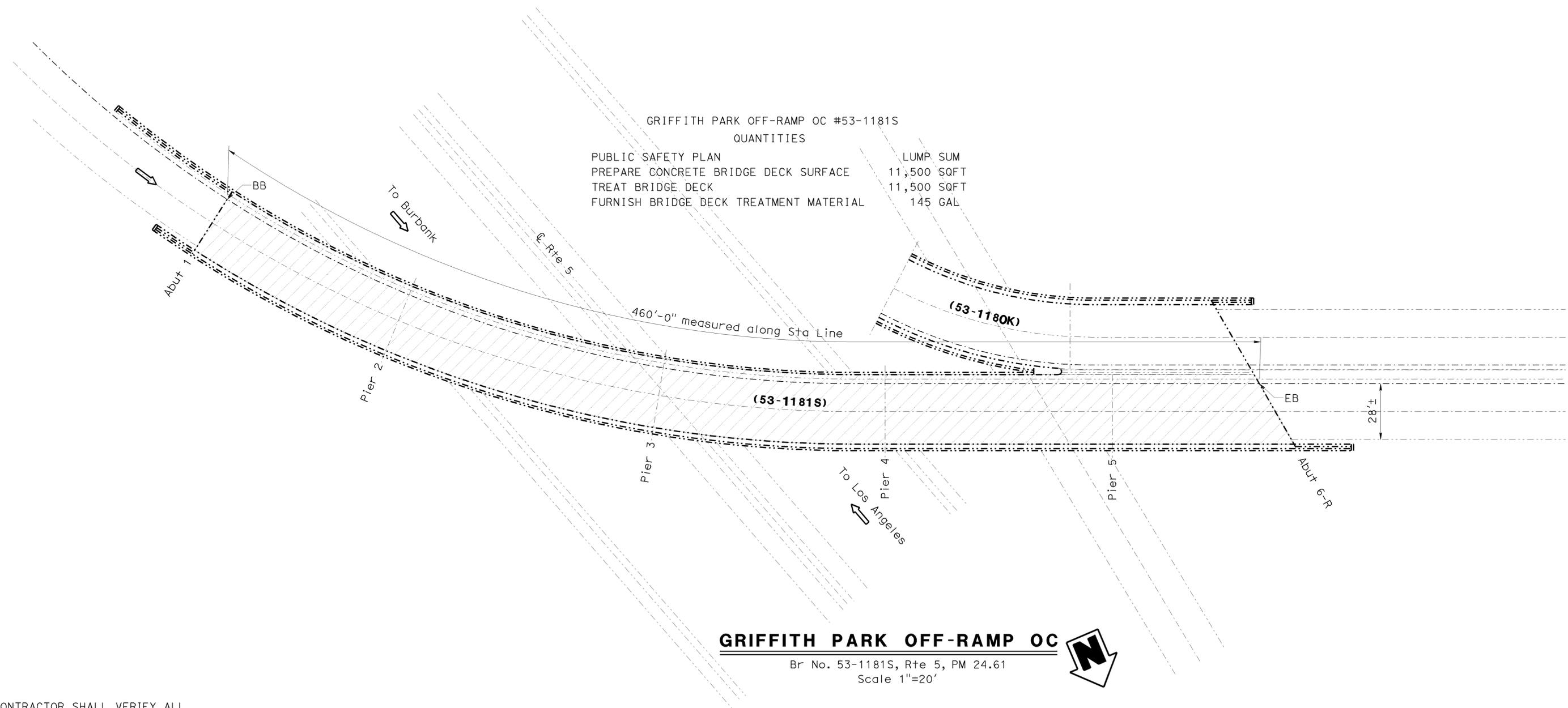
REGISTERED CIVIL ENGINEER DATE 12-19-12  
 PLANS APPROVAL DATE 3-4-13  
 No. C65380  
 Exp. 09/30/13  
 CIVIL  
 STATE OF CALIFORNIA  
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GRIFFITH PARK OFF-RAMP OC #53-1181S  
 QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	11,500 SQFT
TREAT BRIDGE DECK	11,500 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	145 GAL



**GRIFFITH PARK OFF-RAMP OC**

Br No. 53-1181S, Rte 5, PM 24.61  
Scale 1"=20'

NOTE:  
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<b>TONY D. BRAKE</b> DESIGN ENGINEER	DESIGN	BY Gerald Joo	CHECKED Edward Li	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.	<b>ROUTES 5 &amp; 134 BRIDGES</b> <b>GENERAL PLAN NO. 13</b>			
	DETAILS	BY Clayton Tom	CHECKED Gerald Joo	LAYOUT	BY Clayton Tom			CHECKED Gerald Joo		POST MILE		
	QUANTITIES	BY Gerald Joo	CHECKED Ramesh Patel	SPECIFICATIONS	BY James Choi			CHECKED James Choi		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: 0700021243 1	CONTRACT NO.: 07-1W3301	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 13 OF 24

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,134	18.5/31.2, L4.5/L5.0	34	44

12-19-12  
 REGISTERED CIVIL ENGINEER DATE  
 3-4-13  
 PLANS APPROVAL DATE  
 No. C65380  
 Exp. 09/30/13  
 CIVIL  
 STATE OF CALIFORNIA  
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**LEGEND:**

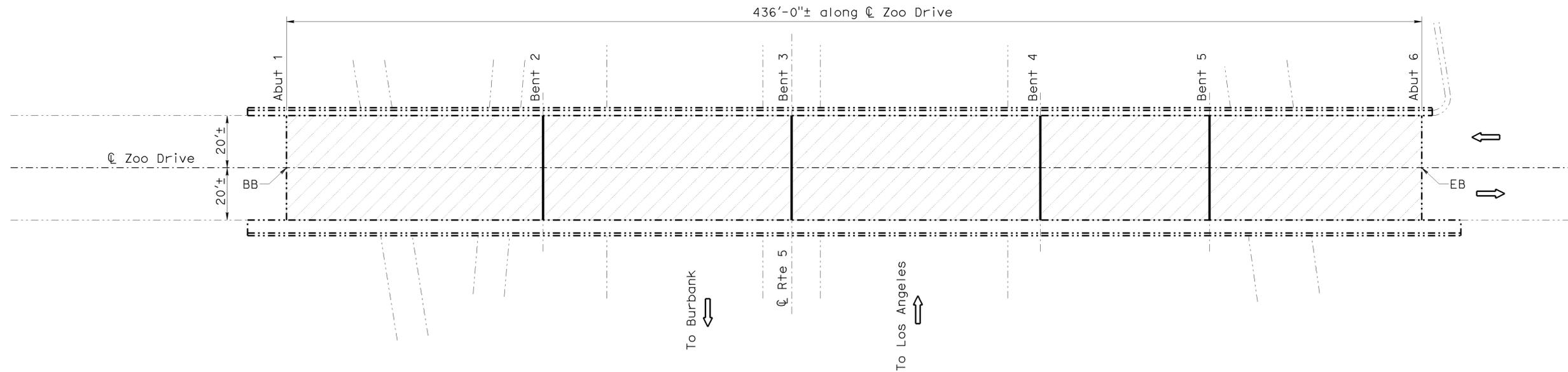
- Indicates existing.
- ⇒ Indicates direction of traffic.
- ▨ Indicates limits of prepare, treat, and furnish existing bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment.
- Indicates location of existing joint seal removal and placement of new joint seal. Prior to placement of new joint seal repair joint with unsound concrete, and rapid setting concrete (patch).

**NOTE:**

For clean expansion joint and joint details, see "MISCELLANEOUS DETAILS NO. 1" sheet.

ZOO DRIVE OC #53-1173  
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
RAPID SETTING CONCRETE (PATCH)	4 CF
REMOVE UNSOUND CONCRETE	4 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	17,500 SQFT
TREAT BRIDGE DECK	17,500 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	220 GAL
CLEAN EXPANSION JOINT	160 LF
JOINT SEAL (MR 1")	160 LF



**ZOO DRIVE OC**  
 Br No. 53-1173, Rte 5, PM 26.47  
 Scale 1"=20'

NOTE:  
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITIES FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

<b>TONY D. BRAKE</b> DESIGN ENGINEER	DESIGN	BY Gerald Joo	CHECKED Edward Li	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	<b>ROUTES 5 &amp; 134 BRIDGES</b> <b>GENERAL PLAN NO. 14</b>					
	DETAILS	BY Clayton Tom	CHECKED Gerald Joo	LAYOUT	BY Clayton Tom		CHECKED Gerald Joo		POST MILE				
	QUANTITIES	BY Gerald Joo	CHECKED Ramesh Patel	SPECIFICATIONS	BY James Choi		CHECKED James Choi		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: 0700021243 1	CONTRACT NO.: 07-1W3301	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 14	OF 24

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,134	18.5/31.2, 4.5/5.0	35	44

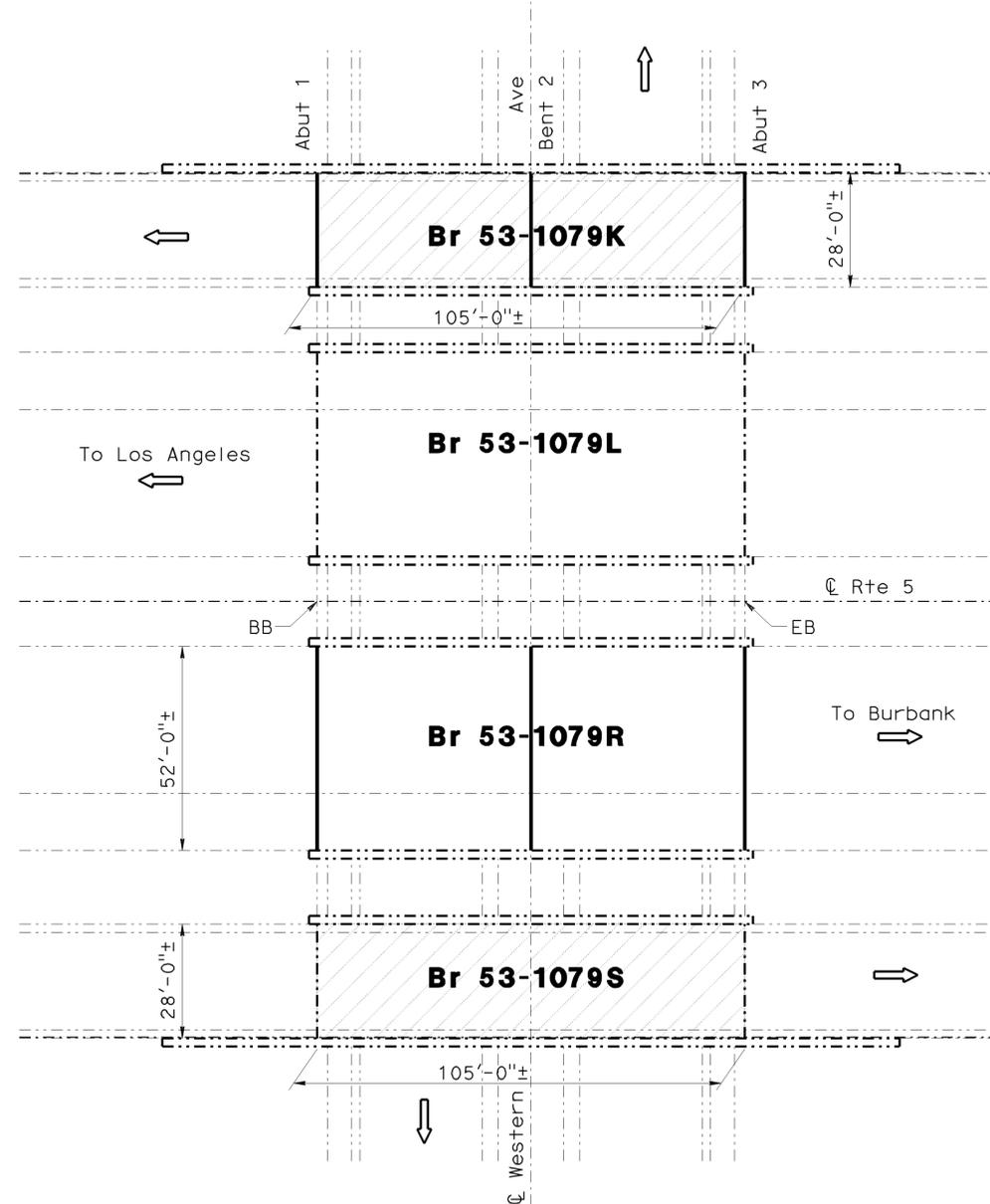
REGISTERED CIVIL ENGINEER DATE 12-19-12  
 PLANS APPROVAL DATE 3-4-13  
 No. C65380  
 Exp. 09/30/13  
 CIVIL  
 STATE OF CALIFORNIA  
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**LEGEND:**

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- ⇒ Indicates direction of traffic.
- ▨ Indicates limits of prepare, treat, and furnish existing bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment.
- Indicates location of existing joint seal removal and placement of new joint seal. Prior to placement of new joint seal repair joint with unsound concrete, and rapid setting concrete (patch).

**NOTE:**

For clean expansion joint and joint details, see "MISCELLANEOUS DETAILS NO. 1" sheet.



WESTERN AVENUE UC #53-1079K  
QUANTITIES

	LUMP SUM
PUBLIC SAFETY PLAN	
RAPID SETTING CONCRETE (PATCH)	3 CF
REMOVE UNSOUND CONCRETE	3 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	3,000 SQFT
TREAT BRIDGE DECK	3,000 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	40 GAL
CLEAN EXPANSION JOINT	84 LF
JOINT SEAL (MR 1")	84 LF

WESTERN AVENUE UC 53-1079R  
QUANTITIES

RAPID SETTING CONCRETE (PATCH)	3 CF
REMOVE UNSOUND CONCRETE	3 CF
CLEAN EXPANSION JOINT	156 LF
JOINT SEAL (MR 1")	156 LF

WESTERN AVENUE UC #53-1079S  
QUANTITIES

	LUMP SUM
PUBLIC SAFETY PLAN	
PREPARE CONCRETE BRIDGE DECK SURFACE	3,000 SQFT
TREAT BRIDGE DECK	3,000 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	40 GAL

**WESTERN AVENUE UC**

Br No. 53-1079K, -1079R, -1079S, Rte 5, PM 27.84  
Scale 1"=20'

NOTE:  
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<b>TONY D. BRAKE</b> DESIGN ENGINEER	DESIGN	BY Gerald Joo	CHECKED Edward Li	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	<b>DIVISION OF MAINTENANCE</b> STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	<b>ROUTES 5 &amp; 134 BRIDGES</b> GENERAL PLAN NO. 15	
	DETAILS	BY Clayton Tom	CHECKED Gerald Joo	LAYOUT	BY Clayton Tom			CHECKED Gerald Joo		POST MILE
	QUANTITIES	BY Gerald Joo	CHECKED Ramesh Patel	SPECIFICATIONS	BY James Choi			CHECKED James Choi		VARIES

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS  
 UNIT: 3489 PROJECT NUMBER & PHASE: 0700021243 1 CONTRACT NO.: 07-1W3301  
 DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
05-08-12 05-29-12 12-10-12 12-19-12	15	24

FILE => 07-1w3301-a-gp15.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,134	18.5/31.2, 4.5/5.0	36	44

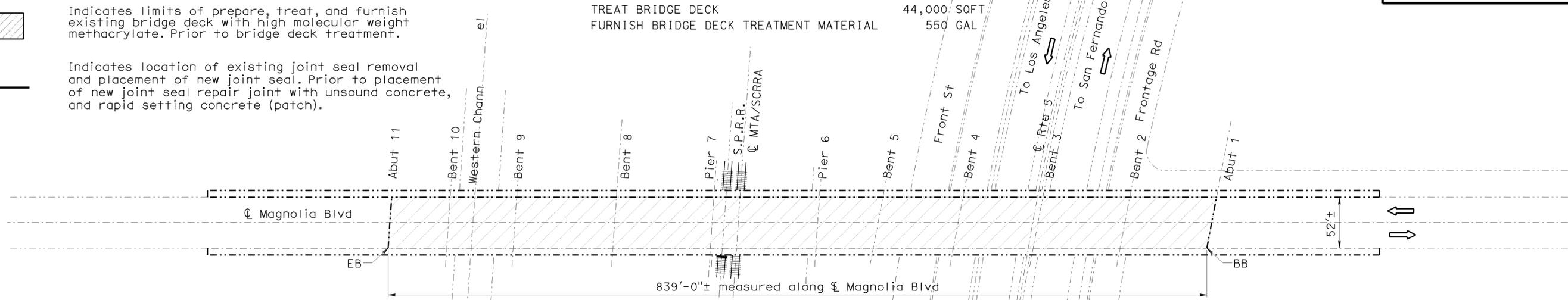
REGISTERED CIVIL ENGINEER DATE 12-19-12  
 PLANS APPROVAL DATE 3-4-13  
 No. C65380  
 Exp. 09/30/13  
 CIVIL  
 STATE OF CALIFORNIA  
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

**LEGEND:**

- Indicates existing.
- ⇒ Indicates direction of traffic.
- ▨ Indicates limits of prepare, treat, and furnish existing bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment.
- Indicates location of existing joint seal removal and placement of new joint seal. Prior to placement of new joint seal repair joint with unsound concrete, and rapid setting concrete (patch).

**MAGNOLIA BOULEVARD OC #53-1088**  
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	44,000 SQFT
TREAT BRIDGE DECK	44,000 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	550 GAL

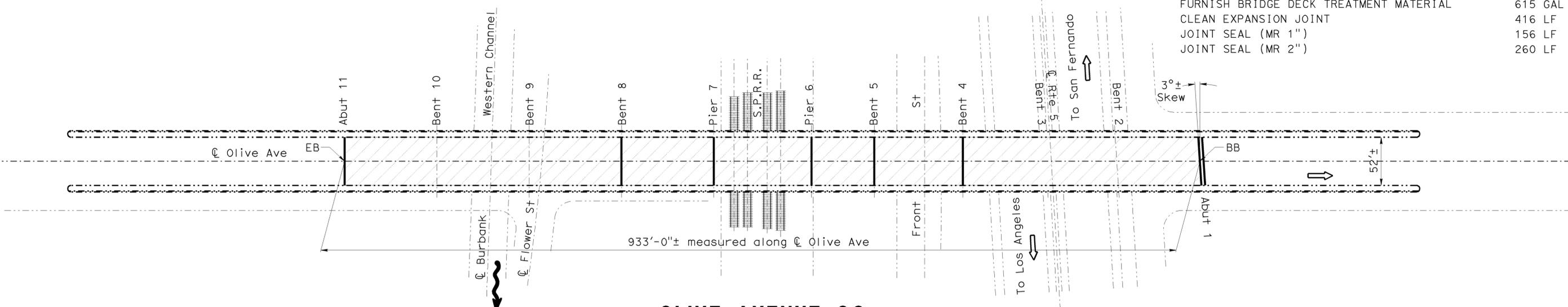


**MAGNOLIA BOULEVARD OC**

Br No. 53-1088, Rte 5, PM 29.39  
Scale 1"=50'

**OLIVE AVENUE OC #53-1087**  
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
RAPID SETTING CONCRETE (PATCH)	8 CF
REMOVE UNSOUND CONCRETE	8 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	49,000 SQFT
TREAT BRIDGE DECK	49,000 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	615 GAL
CLEAN EXPANSION JOINT	416 LF
JOINT SEAL (MR 1")	156 LF
JOINT SEAL (MR 2")	260 LF



**OLIVE AVENUE OC**

Br No. 53-1087, Rte 5, PM 29.16  
Scale 1"=20'

NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITIES FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

DESIGN	BY Gerald Joo	CHECKED Edward Li	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Clayton Tom	CHECKED Gerald Joo	LAYOUT	BY Clayton Tom
QUANTITIES	BY Gerald Joo	CHECKED Ramesh Patel	SPECIFICATIONS	BY James Choi

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Varies  
POST MILE Varies

**ROUTES 5 & 134 BRIDGES**  
**GENERAL PLAN NO. 16**

USERNAME => s117283 DATE PLOTTED => 19-DEC-2012 TIME PLOTTED => 11:19

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,134	18.5/31.2, 14.5/15.0	37	44
			 REGISTERED CIVIL ENGINEER DATE 12-19-12		
			3-4-13 PLANS APPROVAL DATE		
<small>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.</small>					

**LEGEND:**

- Indicates existing.
- ⇒ Indicates direction of traffic.
- Indicates location of existing joint seal removal and placement of new joint seal. Prior to placement of new joint seal repair joint with unsound concrete, and rapid setting concrete (patch).

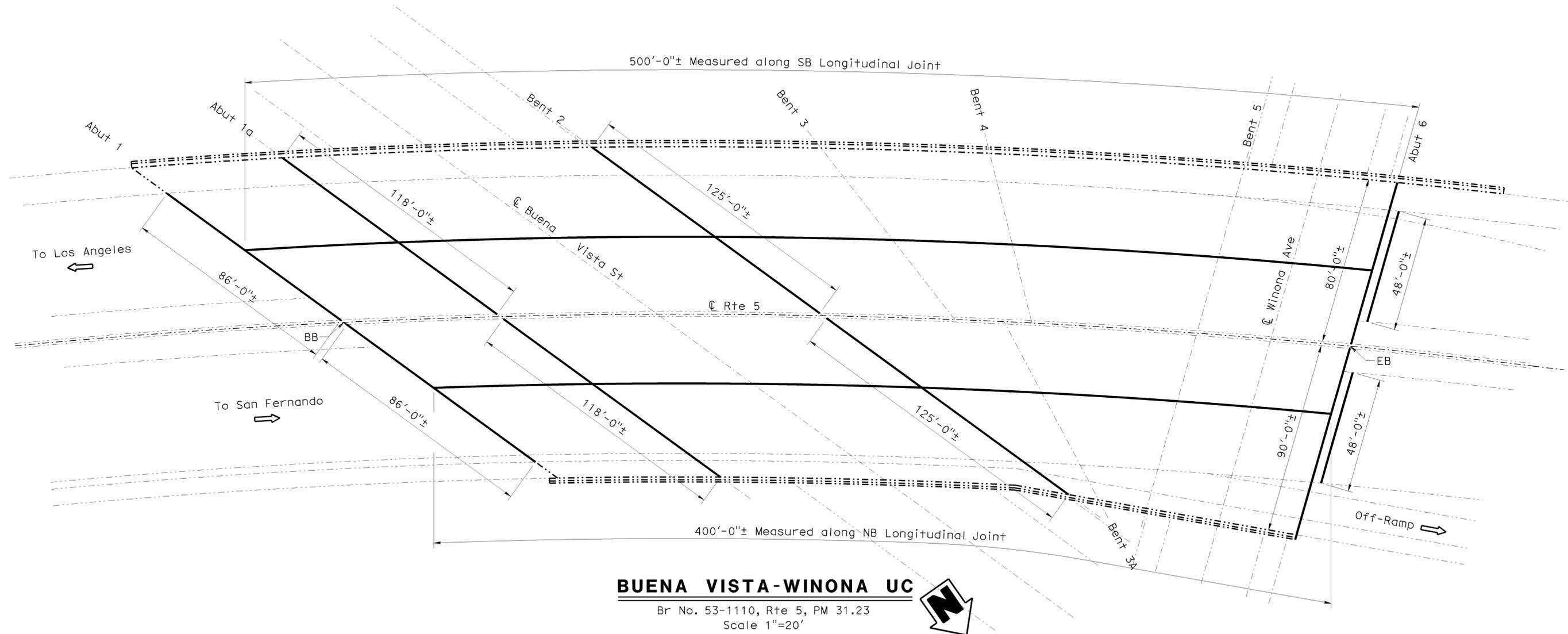
**NOTE:**

For clean expansion joint and joint details, see "MISCELLANEOUS DETAILS NO. 1" sheet.

BUENA VISTA-WINONA UC #53-1110

QUANTITIES

RAPID SETTING CONCRETE (PATCH)	12 CF
REMOVE UNSOUND CONCRETE	12 CF
CLEAN EXPANSION JOINT	1,824 LF
JOINT SEAL (MR 1")	438 LF
JOINT SEAL (MR 2")	486 LF
JOINT SEAL (TYPE AL)	900 LF



**BUENA VISTA-WINONA UC**

Br No. 53-1110, Rte 5, PM 31.23  
Scale 1"=20'

NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITIES FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

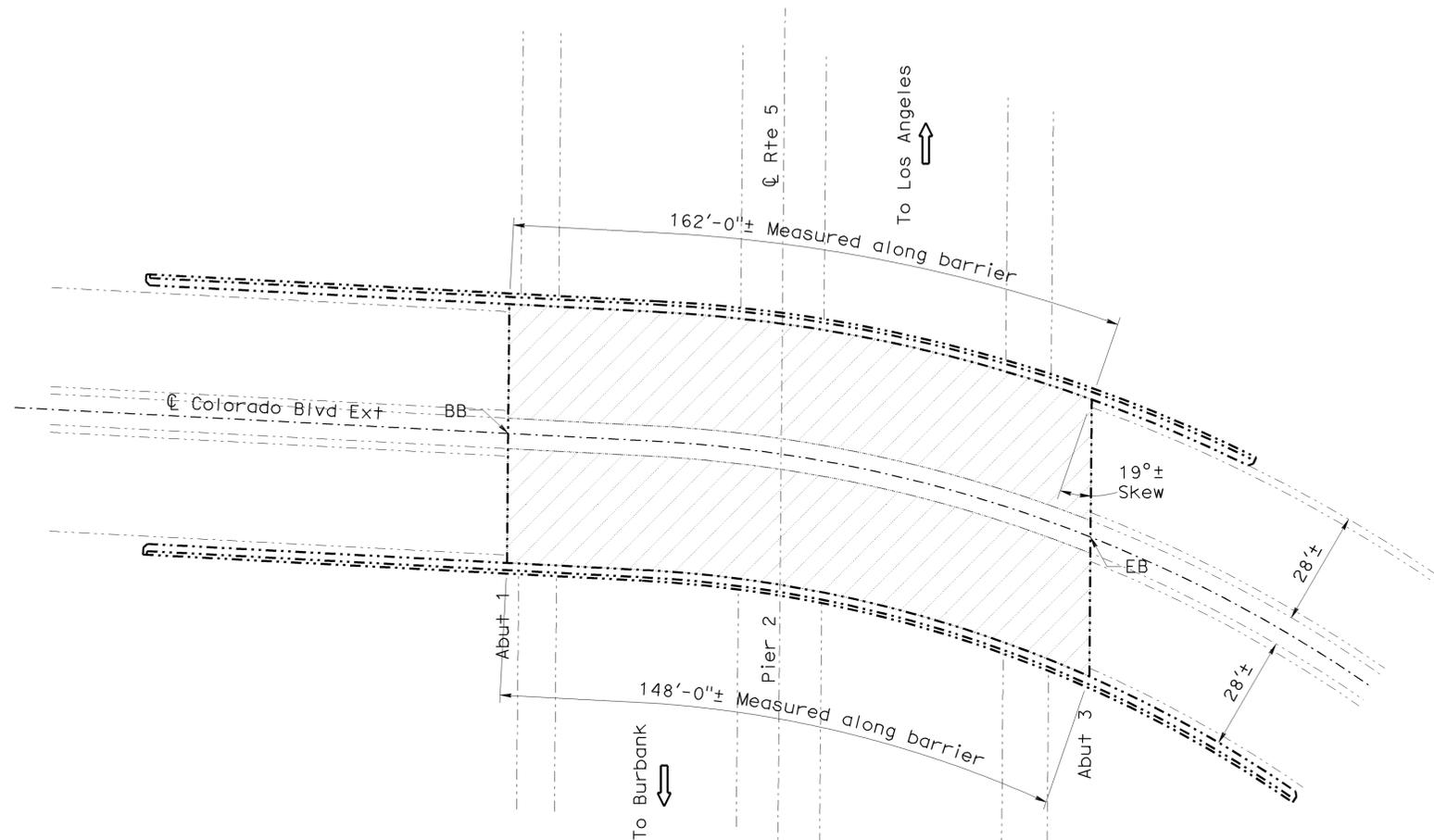
 DESIGN ENGINEER	DESIGN	BY Gerald Joo	CHECKED Edward Li	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	<b>ROUTES 5 &amp; 134 BRIDGES</b> <b>GENERAL PLAN NO. 17</b>				
	DETAILS	BY Clayton Tom	CHECKED Gerald Joo	LAYOUT	BY Clayton Tom		CHECKED Gerald Joo		POST MILE			
	QUANTITIES	BY Gerald Joo	CHECKED Ramesh Patel	SPECIFICATIONS	BY James Choi		CHECKED James Choi		VARIES			
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3489	PROJECT NUMBER & PHASE: 0700021243 1	CONTRACT NO.: 07-1W3301	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 17 OF 24

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,134	18.5/31.2, L4.5/L5.0	38	44

REGISTERED CIVIL ENGINEER DATE 12-19-12  
 PLANS APPROVAL DATE 3-4-13  
 No. C65380  
 Exp. 09/30/13  
 CIVIL  
 STATE OF CALIFORNIA  
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**LEGEND:**

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- Indicates direction of traffic.
- ▨ Indicates limits of prepare, treat, and furnish existing bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment.

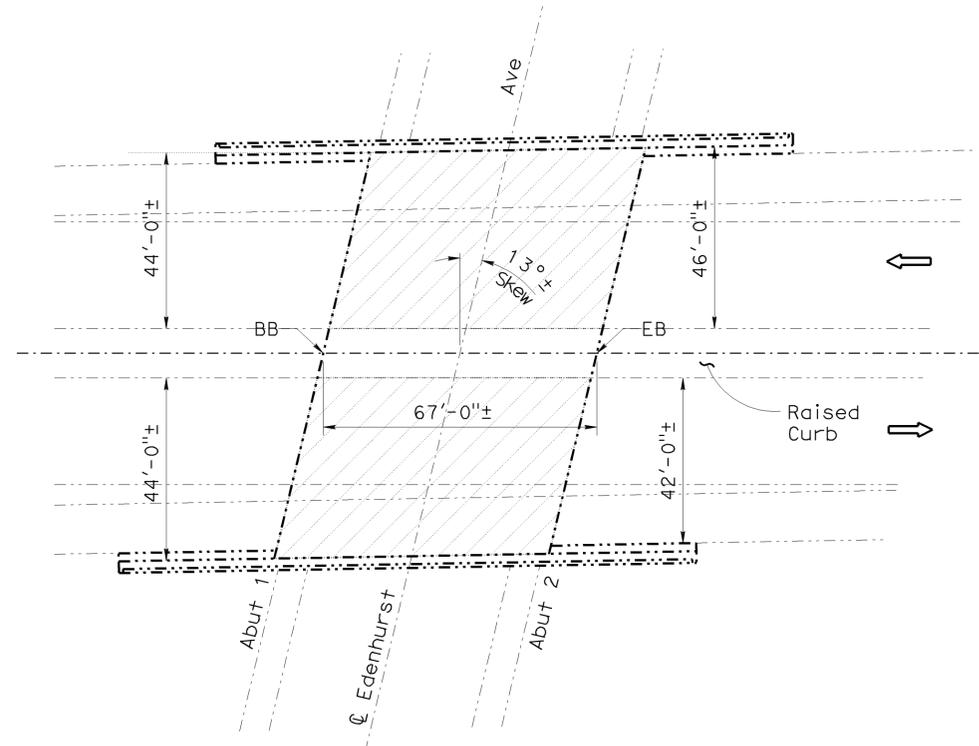


**ROUTE 134/5 SEPARATION**  
 Br No. 53-1073E, Rte 134, PM L4.55  
 Scale 1"=20'

ROUTE 134/5 SEPARATION #53-1073E  
 QUANTITIES

	LUMP SUM
PUBLIC SAFETY PLAN	
PREPARE CONCRETE BRIDGE DECK SURFACE	9,000 SQFT
TREAT BRIDGE DECK	9,000 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	115 GAL

NOTE:  
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITIES FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.



**EDENHURST AVENUE UC**  
 Br No. 53-1108, Rte 134, PM L4.83  
 Scale 1"=20'

EDENHURST AVENUE UC #53-1108  
 QUANTITIES

	LUMP SUM
PUBLIC SAFETY PLAN	
PREPARE CONCRETE BRIDGE DECK SURFACE	6,000 SQFT
TREAT BRIDGE DECK	6,000 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	75 GAL

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Gerald Joo	CHECKED Edward Li	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
	DETAILS	BY Clayton Tom	CHECKED Gerald Joo	LAYOUT	BY Clayton Tom
	QUANTITIES	BY Gerald Joo	CHECKED Ramesh Patel	SPECIFICATIONS	BY James Choi

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various  
 POST MILE Varies

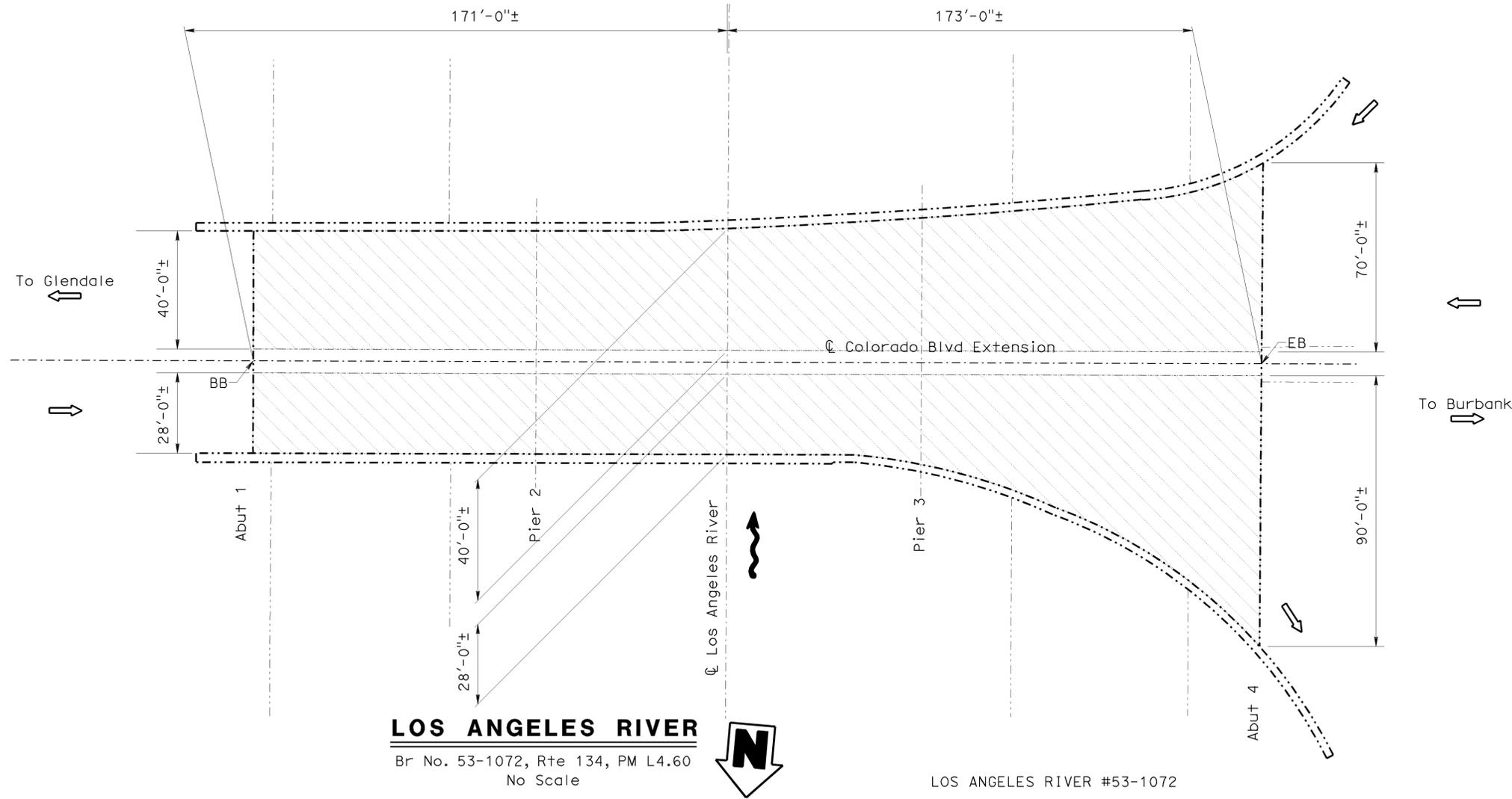
**ROUTES 5 & 134 BRIDGES  
 GENERAL PLAN NO. 18**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,134	18.5/31.2, L4.5/L5.0	39	44

REGISTERED CIVIL ENGINEER DATE 12-19-12  
 PLANS APPROVAL DATE 3-4-13  
 No. C65380  
 Exp. 09/30/13  
 CIVIL  
 STATE OF CALIFORNIA  
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**LEGEND:**

- Indicates existing.
- ⇒ Indicates direction of traffic.
- Indicates location of install new joint seal.
- ▨ Indicates limits of prepare, treat, and furnish existing bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment.



**LOS ANGELES RIVER**  
 Br No. 53-1072, Rte 134, PM L4.60  
 No Scale



LOS ANGELES RIVER #53-1072  
 QUANTITIES

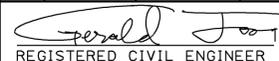
PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	31,500 SQFT
TREAT BRIDGE DECK	31,500 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	400 GAL

NOTE:  
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITIES FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

<b>TONY D. BRAKE</b> DESIGN ENGINEER	DESIGN	BY Gerald Joo	CHECKED Edward Li	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
	DETAILS	BY Clayton Tom	CHECKED Gerald Joo	LAYOUT	BY Clayton Tom
	QUANTITIES	BY Gerald Joo	CHECKED Ramesh Patel	SPECIFICATIONS	BY James Choi

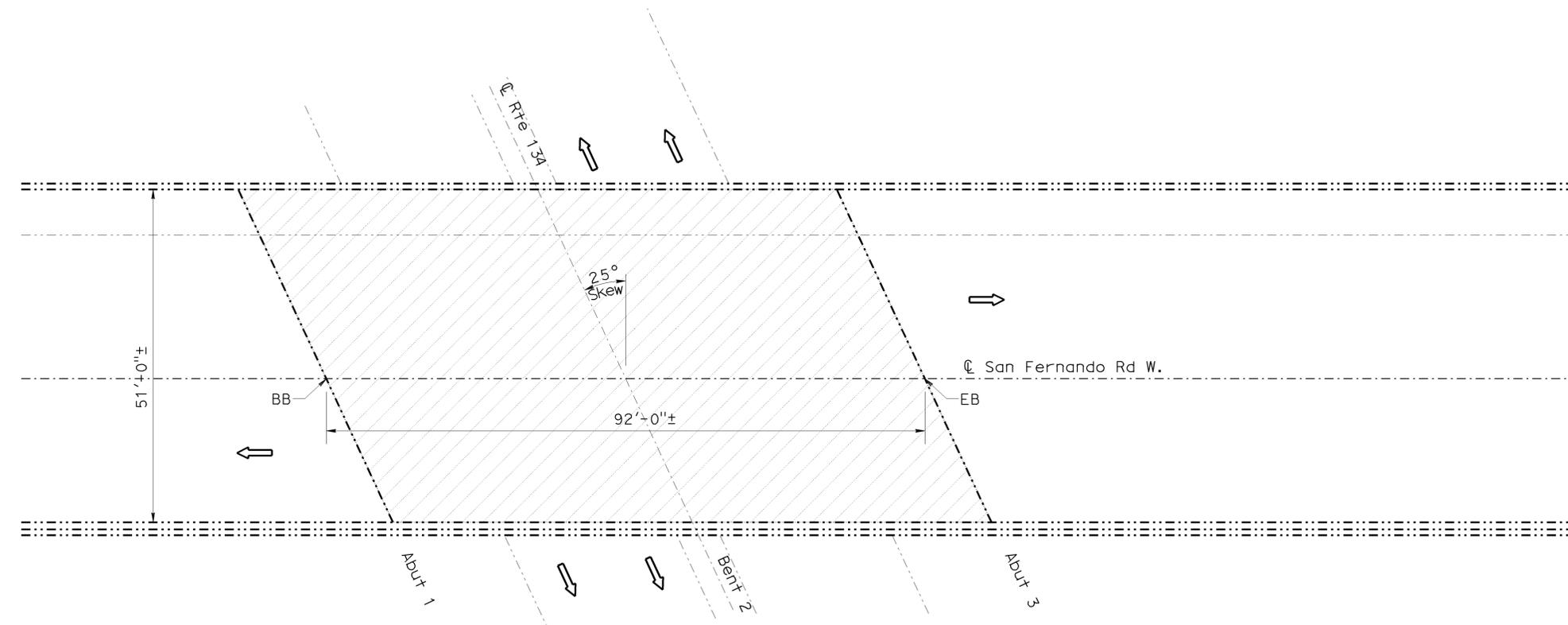
STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF MAINTENANCE  
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various  
 POST MILE Varies  
**ROUTES 5 & 134 BRIDGES**  
**GENERAL PLAN NO. 19**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,134	18.5/31.2, L4.5/L5.0	40	44
 REGISTERED CIVIL ENGINEER			DATE		
PLANS APPROVAL DATE			3-4-13		
<small>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.</small>					

**LEGEND:**

- Indicates existing.
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**SAN FERNANDO ROAD W OC**  
 Br No. 53-1107, Rte 134, PM L5.03  
 Scale 1"=20'



SAN FERNANDO ROAD W OC #53-1107  
 QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	5,000 SQFT
TREAT BRIDGE DECK	5,000 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	65 GAL

NOTE:  
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITIES FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

 DESIGN ENGINEER	DESIGN	BY Gerald Joo	CHECKED Edward Li	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE	BRIDGE NO.	<b>ROUTES 5 &amp; 134 BRIDGES</b> <b>GENERAL PLAN NO. 20</b>							
	DETAILS	BY Clayton Tom	CHECKED Gerald Joo	LAYOUT	BY Clayton Tom		CHECKED Gerald Joo	STRUCTURE MAINTENANCE DESIGN		Various						
	QUANTITIES	BY Gerald Joo	CHECKED Ramesh Patel	SPECIFICATIONS	BY James Choi	PLANS AND SPECS COMPARED James Choi		Varies								
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3489	PROJECT NUMBER & PHASE: 0700021243 1	CONTRACT NO.: 07-1W3301	DISREGARD PRINTS BEARING EARLIER REVISION DATES						
							0	1	2	3	REVISION DATES	SHEET	OF			
											05-08-12	05-29-12	12-10-12	12-19-12	20	24

**JOINT SEAL TABLE**

BRIDGE NAME	BRIDGE NUMBER	JOINT SEAL LOCATION		MINIMUM "MR" (INCHES)	APPROX LENGTH (FT)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXP JOINT (INCHES)
S5-E10 Connector OC	53-1317F	Abut 1	PN	1 1/2	106	No	12
		Abut 4	PN	1 1/2	106	No	12
Alhambra Avenue OH	53-0368	PN 1L	PN	1	150	No	12
		PN 1R	PN	1	72	No	12
		Abut 1L	DJ	1	150	No	12
		Abut 1R	DJ	1	72	No	12
		Bent 2L	DJ	1	82	No	12
		Bent 3R	DJ	1	72	No	12
		Bent 3L	DJ	1	82	No	12
		Bent 4L	DJ	1	72	No	12
		Bent 4R	DJ	1	71	No	12
		Abut 5L	DJ	1	72	No	12
		Abut 5R	DJ	1	71	No	12
		PN 5L	PN	1	72	No	12
		PN 5R	PN	1	71	No	12
		Pasadena Ave On-Ramp OC	53-1404S	Abut 1	PN	1	50
Bent 2	DJ			1	28	No	12
Bent 3	DJ			1	28	No	12
Abut 4	PN			1	28	No	12
Abut 17-1	PN			1	24	Yes	12
Bent 17-2	DJ			1	24	Yes	12
Bent 17-3	DJ			1	24	Yes	12
Bent 17-4	DJ			1	24	Yes	12
Abut 18-1	PN			1	32	Yes	12
Bent 18-6	DJ			1	32	Yes	12
Bent 18-7	DJ			1	32	Yes	12
Elysian Viaduct	53-1424	Bent 18-8	DJ	1	62	Yes	12
		Bent 18-9	DJ	1	60	Yes	12
		Abut 20-1	PN	1	32	Yes	12
		Bent 20-3	DJ	1	32	Yes	12
		Abut 22-1	PN	1	32	Yes	12
		Bent 22-2	DJ	1	32	Yes	12
		Bent 22-3	DJ	1	32	Yes	12
		Bent 22-5	DJ	1	32	Yes	12
		Bent 22-6	DJ	1	32	Yes	12
		Bent 22-7	DJ	1	32	Yes	12
NW Connector Separation	53-0562G	Abut 1	PN	1	24	No	12
		Abut 4	PN	1	24	No	12
Los Feliz Blvd On-Ramp OC	53-1096S	Abut 1	PN	1	28	No	12
		Abut 5	PN	1	28	No	12
Glendale Blvd OC	53-1068	Abut 1	BW	2*	115	Yes	12
		Abut 4	BW	2*	115	Yes	12
Zoo Drive OC	53-1173	Bent 2	DJ	1	40	Yes	12
		Bent 3	DJ	1	40	Yes	12
		Bent 4	DJ	1	40	Yes	12
		Bent 5	DJ	1	40	Yes	12
Western Avenue OC	53-1079K	Abut 1	BW	1	28	Yes	12
		Bent 2	DJ	1	28	Yes	12
		Abut 3	BW	1	28	Yes	12
Western Avenue OC	53-1079R	Abut 1	BW	1	52	Yes	12
		Bent 2	DJ	1	52	Yes	12
		Abut 3	BW	1	52	Yes	12

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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,134	18.5/31.2, 4.5/5.0	41	44

  
 REGISTERED CIVIL ENGINEER DATE 12-19-12  
 PLANS APPROVAL DATE 3-4-13  
 No. C65380  
 Exp. 09/30/13  
 CIVIL  
 STATE OF CALIFORNIA

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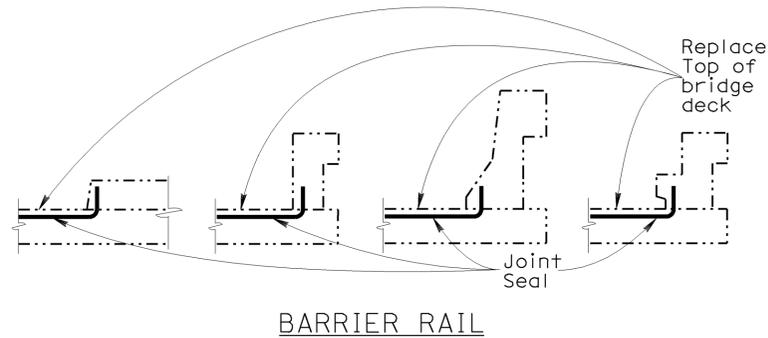
DESIGN BY Gerald Joo CHECKED Edward Li DETAILS BY Clayton Tom CHECKED Gerald Joo QUANTITIES BY Gerald Joo CHECKED Ramesh Patel	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION		DIVISION OF MAINTENANCE <b>STRUCTURE MAINTENANCE DESIGN</b>		BRIDGE NO. Various POST MILE Varies	<b>ROUTES 5 &amp; 134 BRIDGES</b> <b>MISCELLANEOUS DETAILS NO. 1</b>		
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			UNIT: 3489 PROJECT NUMBER & PHASE: 0700021243 1	CONTRACT NO.: 07-1W3301	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES: 05-02-12, 05-29-12, 12-10-12, 12-19-12 SHEET 21 OF 24
	STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 09-01-10)			FILE => 07-1w3301-u-miscdtr01.dgn				

USERNAME => s117283 DATE PLOTTED => 19-DEC-2012 TIME PLOTTED => 11:20

## JOINT SEAL TABLE

BRIDGE NAME	BRIDGE NUMBER	JOINT SEAL LOCATION	MINIMUM "MR" (INCHES)	APPROX LENGTH (FT)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXP JOINT (INCHES)	
Olive Avenue OC	53-1087	Abut 1	PN	1	52	No	12
		Abut 1	BW	1	52	Yes	12
		Bent 4	DJ	2	52	Yes	12
		Bent 5	DJ	2	52	Yes	12
		Pier 6	DJ	2	52	Yes	12
		Pier 7	DJ	2	52	Yes	12
		Bent 8	DJ	2	52	Yes	12
Buena Vista-Winona UC	53-1110	Abut 1	BW	1	172	Yes	12
		Abut 1A	DJ	2	236	Yes	12
		Bent 2	DJ	2	250	Yes	12
		Abut 6	PN	1	96	No	12
		Abut 6	BW	1	170	Yes	12
		Northbound	AL	-	400	No	12
		Southbound	AL	-	500	No	12

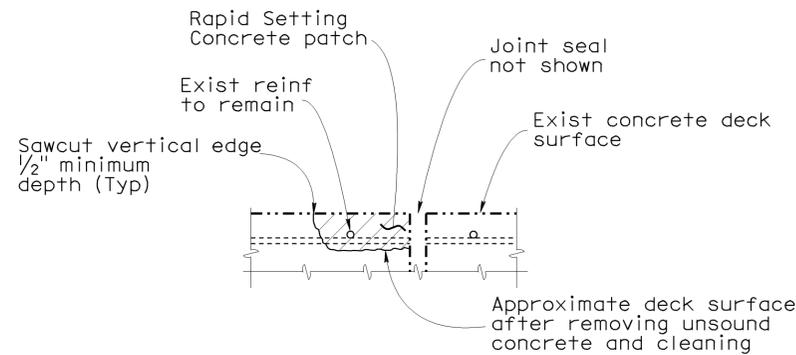
Note: \* = Use Bonded Joint Seal



### JOINT SEAL AT LOW SIDE OF DECK

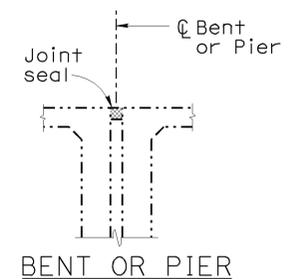
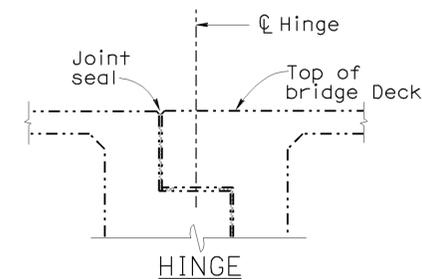
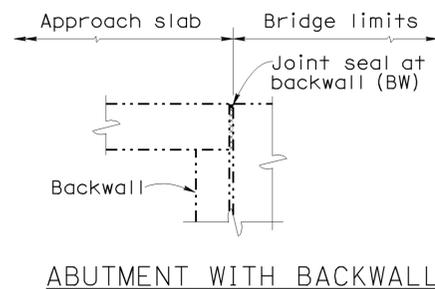
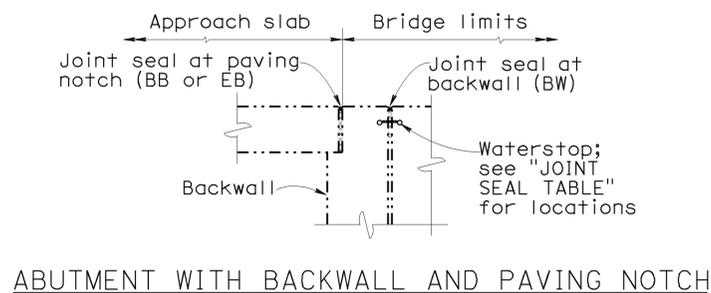
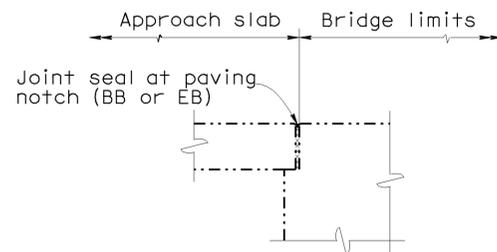
Note: Details shown for illustration purposes only.

For use only where deck joint matches the sidewalk, curb or barrier rail joint.



### JOINT REPAIR DETAIL

Note: Reinforcement may be encountered during deck concrete removal and is to remain undamaged.



### JOINT SEAL LOCATION

NO SCALE

NOTE:  
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,134	18.5/31.2, L4.5/L5.0	42	44

12-19-12  
 REGISTERED CIVIL ENGINEER DATE

3-4-13  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 No. C65380  
 Exp. 09/30/13  
 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.

### 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.

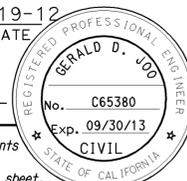
For details not shown see Standard Plan B6-21.

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.

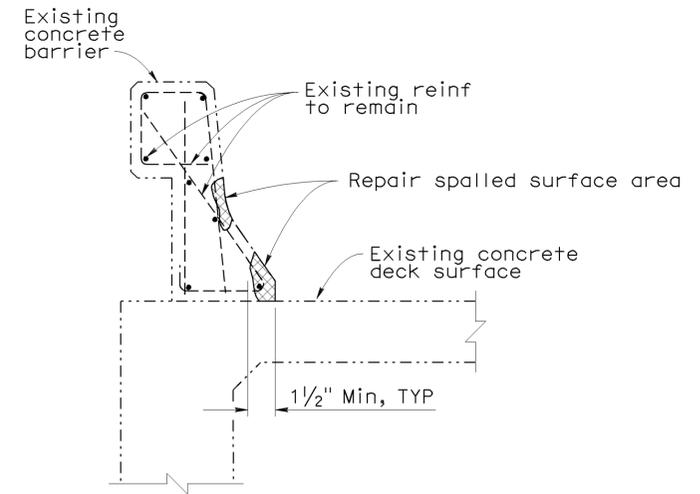
For details not shown see Standard Plan B6-21.

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">DESIGN</td> <td style="width: 30%;">BY Gerald Joo</td> <td style="width: 30%;">CHECKED Edward Li</td> </tr> <tr> <td>DETAILS</td> <td>BY Clayton Tom</td> <td>CHECKED Gerald Joo</td> </tr> <tr> <td>QUANTITIES</td> <td>BY Gerald Joo</td> <td>CHECKED Ramesh Patel</td> </tr> </table>	DESIGN	BY Gerald Joo	CHECKED Edward Li	DETAILS	BY Clayton Tom	CHECKED Gerald Joo	QUANTITIES	BY Gerald Joo	CHECKED Ramesh Patel	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	<b>DIVISION OF MAINTENANCE</b> <b>STRUCTURE MAINTENANCE DESIGN</b>	BRIDGE NO. Various POST MILE Varies	<b>ROUTES 5 &amp; 134 BRIDGES</b> <b>MISCELLANEOUS DETAILS NO. 2</b>
DESIGN	BY Gerald Joo	CHECKED Edward Li											
DETAILS	BY Clayton Tom	CHECKED Gerald Joo											
QUANTITIES	BY Gerald Joo	CHECKED Ramesh Patel											
STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 09-01-10)	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3489 PROJECT NUMBER & PHASE: 0700021243 1	CONTRACT NO.: 07-1W3301	DISREGARD PRINTS BEARING EARLIER REVISION DATES									
				REVISION DATES: 05-08-12, 05-29-12, 12-10-12, 12-19-12 SHEET 22 OF 24									

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,134	18.5/31.2, L4.5/L5.0	43	44
 REGISTERED CIVIL ENGINEER DATE 12-19-12					
3-4-13 PLANS APPROVAL DATE					
<small>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.</small>					

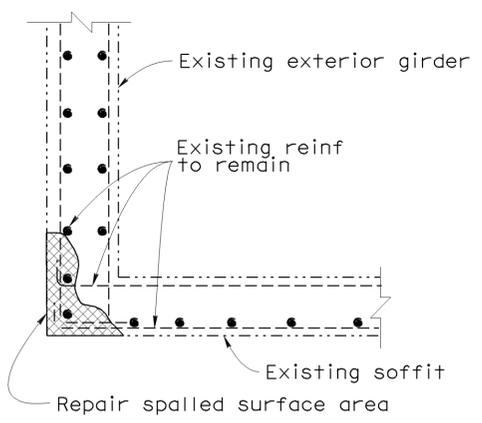
**DECK REPAIR NOTES:**

- 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 shall be waived with the approval of the Engineer.
- The saw cut depth shall not exceed 1/2 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.



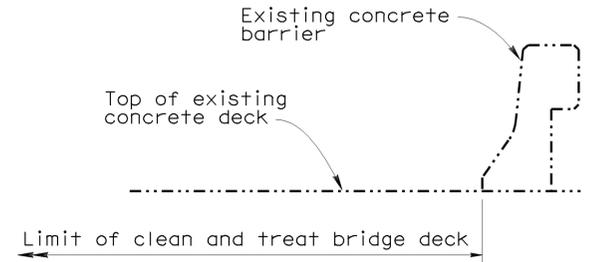
**CONCRETE BARRIER SPALL REPAIR DETAIL**

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

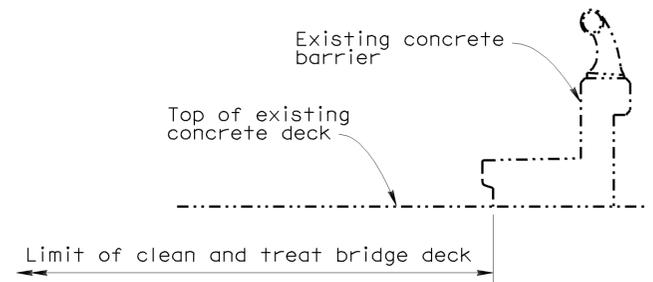


**SPALLED SURFACE AREA DETAIL**

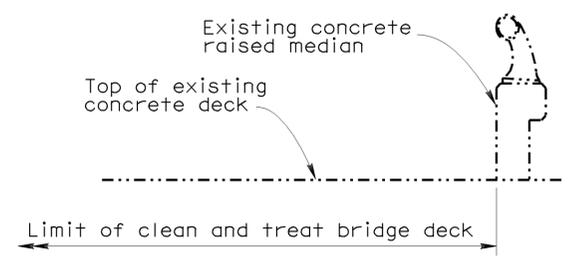
Location will be determined by the Engineer. Reinforcement may be encountered during deck concrete removal and is to remain undamaged.



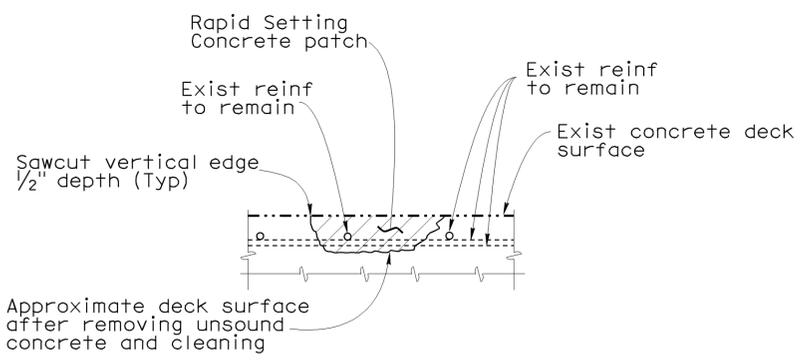
**EOD BARRIER**



**SIDEWALK BARRIER TYPE 2**

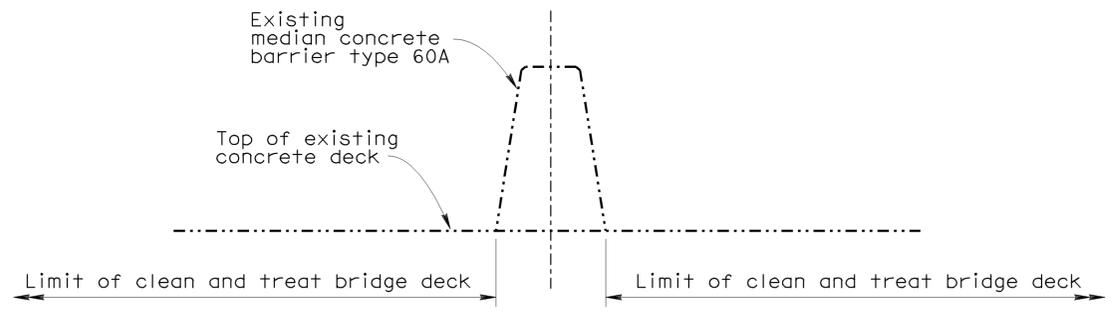


**SIDEWALK BARRIER TYPE 1**

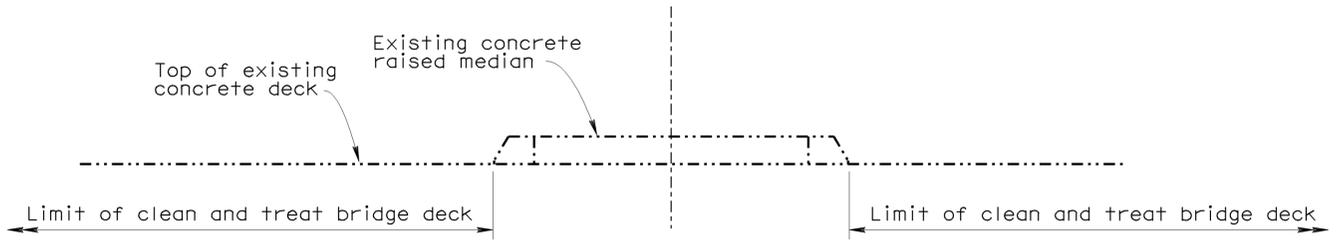


**DECK DAMAGE REPAIR DETAIL**

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



**MEDIAN BARRIER**



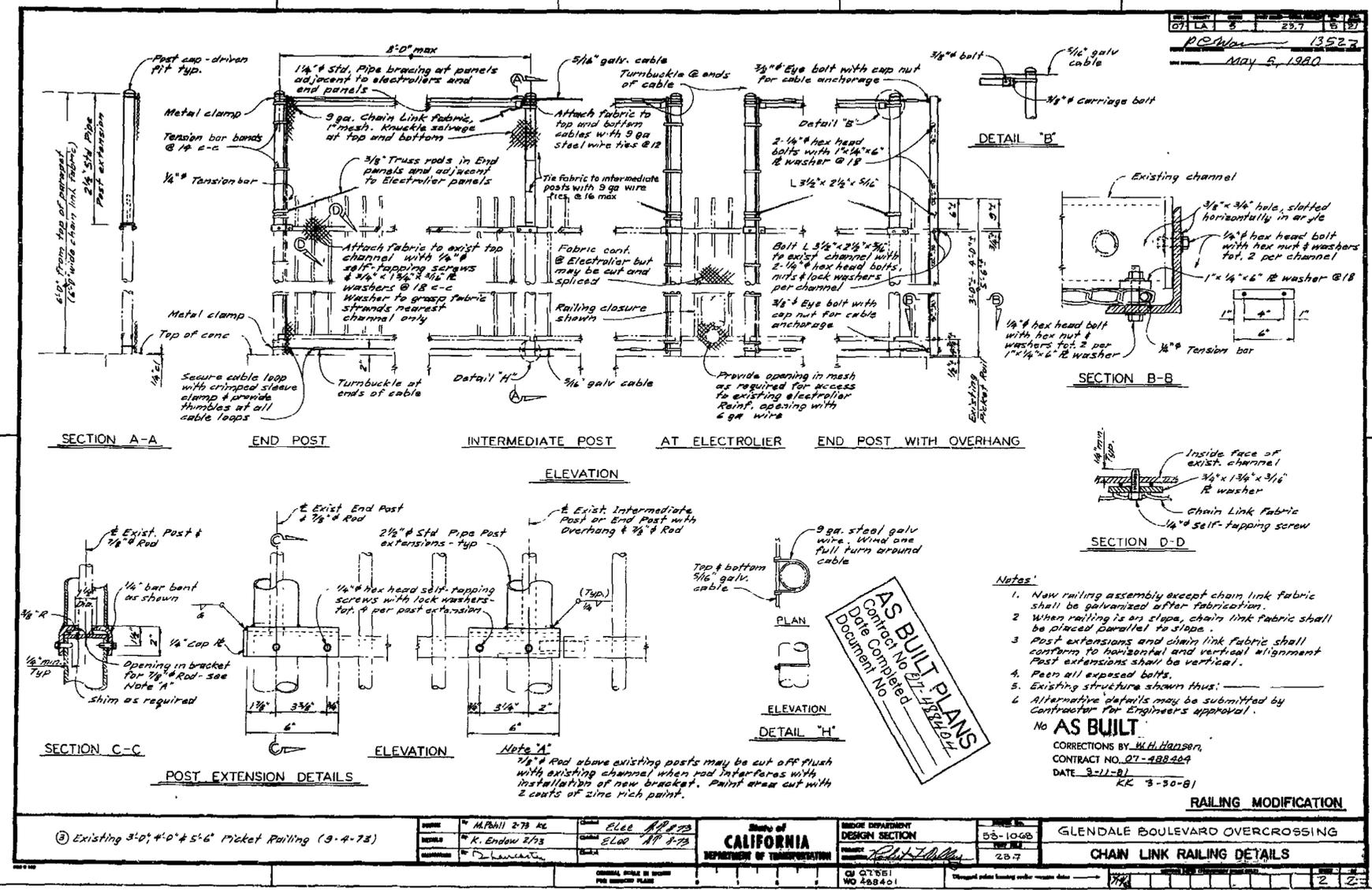
**RAISED MEDIAN**

**TYPICAL LIMITS OF DECK WORK**

NO SCALE

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

STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY Gerald Joo	CHECKED Edward Li	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	Various	ROUTES 5 & 134 BRIDGES MISCELANEOUS DETAILS NO. 3												
	DETAILS	BY Clayton Tom	CHECKED Gerald Joo			POST MILE			Varies											
	QUANTITIES	BY Gerald Joo	CHECKED Ramesh Patel			Varies														
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3	UNIT: 3489 PROJECT NUMBER & PHASE: 0700021243 1	CONTRACT NO.: 07-1W3301	DISREGARD PRINTS BEARING EARLIER REVISION DATES	<table border="1"> <tr> <th colspan="4">REVISION DATES</th> <th>SHEET</th> <th>OF</th> </tr> <tr> <td>05-08-12</td> <td>06-28-12</td> <td>12-10-12</td> <td>12-19-12</td> <td>23</td> <td>24</td> </tr> </table>	REVISION DATES				SHEET	OF	05-08-12	06-28-12	12-10-12	12-19-12	23	24
REVISION DATES				SHEET	OF															
05-08-12	06-28-12	12-10-12	12-19-12	23	24															



① Existing 3'-0" x 4'-0" x 5'-6" Pocket Railing (9-4-73)	DATE: 11/14/11 2:73 24	DESIGNER: R. Endow 2/13	PROJECT NO.: 55-1060	BRIDGE NO.: 53-1068
	DATE: 11/14/11 2:73 24	DESIGNER: R. Endow 2/13	PROJECT NO.: 55-1060	BRIDGE NO.: 53-1068
	DATE: 11/14/11 2:73 24	DESIGNER: R. Endow 2/13	PROJECT NO.: 55-1060	BRIDGE NO.: 53-1068

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

DESIGN	BY: Gerald Joo	CHECKED: Edward Li	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	53-1068	
DETAILS	BY: Clayton Tom	CHECKED: Gerald Joo			POST MILE	Varies	
QUANTITIES	BY: Gerald Joo	CHECKED: Ramesh Patel					

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

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

UNIT: 3489  
 PROJECT NUMBER & PHASE: 0700021243 1  
 CONTRACT NO.: 07-1W3301

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
05-08-12 06-28-12 12-10-12 12-19-12	24	24