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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY

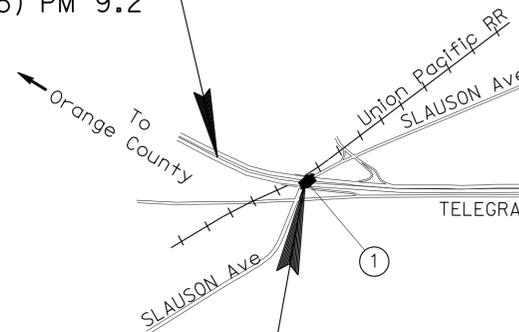
IN LOS ANGELES COUNTY
IN LOS ANGELES AND COMMERCE ON ROUTE 5 FROM
SLAUSON AVENUE OVERHEAD TO S5-S10 CONNECTOR
OVERHEAD AND ON ROUTE 10 FROM E10-N5/ROUTE 5
SEPARATION TO STATE STREET OVERCROSSING

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010



Begin Work
(ROUTE 5) PM 9.2

(ROUTE 5) PM 9.2



**BEGIN CONSTRUCTION
(ROUTE 5) PM 9.7**

COMMERCE

ROUTE 5

WASHINGTON BIVD

TELEGRAPH Rd

TELEGRAPH Rd

EASTERN Ave

ATLANTIC Blvd

Union Pacific RR

TRIGGS ST

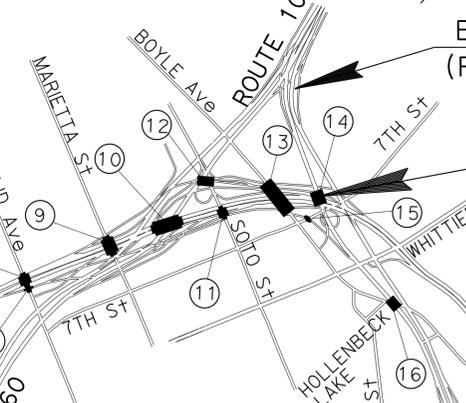
ATLANTIC Blvd

MATCH LINE

Begin Work
(ROUTE 10) PM 17.8

(ROUTE 10) PM 17.8

**BEGIN CONSTRUCTION
(ROUTE 10) PM 18.3**



COMMERCE

ROUTE 5

LORENA St

7TH ST

7TH ST

ROUTE 60

LOS ANGELES

HOLLENBECK

SAINT LOUIS ST

4TH ST

ROUTE 101

ROUTE 5

CEASAR E CHAVEZ Ave

ROUTE 10

STATE ST

**END CONSTRUCTION
(ROUTE 5) PM 18.4**

End Work
(ROUTE 5) PM 18.9

(ROUTE 5) PM 18.9

**END WORK AND
CONSTRUCTION
(ROUTE 10) PM 18.5**

NO SCALE

Paul Fok
PROJECT ENGINEER
REGISTERED CIVIL ENGINEER
DATE 2-6-13

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.



CONTRACT No.	07-1W3904
PROJECT ID	0712000049

PROJECT MANAGER	CHRISTIAN SAM
DESIGN ENGINEER	PAUL W FOK

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,10	9.7/18.4, 18.3/18.5	2	40

Paul Fok
 REGISTERED CIVIL ENGINEER DATE 2-6-13
 3-4-13
 PLANS APPROVAL DATE

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LOCATIONS OF CONSTRUCTION

Loc No. (x)	ROUTE	PM	NAME OF BRIDGE	BRIDGE NUMBER
1	5	9.70	SLAUSON AVENUE OH	53-0638
2	5	11.55	WASHINGTON Blvd UC	53-0635
3	5	12.80	ATLANTIC Blvd OC	53-0041
4	5	12.92	TRIGGS AVENUE OC	53-0025
5	5	14.25	DOWNEY ROAD OC	53-0784
6	5	15.65	LORENA STREET OC	53-0602
7	5	16.05	EUCLID AVENUE UC	53-0601
8	5	16.05	EUCLID AVENUE UC	53-1364R
9	5	16.29	MARIETTA STREET UC	53-1387R
10	5	16.36	ROUTE 5/60 SEPARATION (N5-W60)	53-1397R
11	5	16.59	SOTO STREET UC	53-1390R
12	5	16.59	S5-E60 CONNECTOR OC	53-1386F
13	5	16.76	BOYLE AVENUE OC	53-0597
14	10	18.33	E10-N5/ROUTE 5 SEPARATION	53-1367G
15	5	16.90	SEVENTH STREET OC	53-1366R
16	5	17.21	HOLLENBECK LAKE	53-1359R
17	5	18.06	CESAR E. CHAVEZ AVENUE OC	53-1314
18	10	18.41	W10-N5 CONNECTOR OH	53-1333F
19	5	18.42	ROUTE 5/10 SEPARATION	53-1329
20	10	18.48	STATE STREET OC (RAMP SPUR)	53-1350K
21	10	18.52	STATE STREET OC	53-0130

LOCATIONS OF CONSTRUCTION

LC-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING
 FUNCTIONAL SUPERVISOR: SHAFIOUL ISLAM
 CALCULATED/DESIGNED BY: SHAFIOUL ISLAM
 PAUL W. FOK
 REVISOR: SHAFIOUL ISLAM
 REVISED BY: DATE



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,10	9.7/18.4 18.3/18.5	3	40

<i>Paul Fok</i>	2-6-13
REGISTERED CIVIL ENGINEER	DATE
3-4-13	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER	PAUL FOK
No. C68473	
Exp. 9/30/13	
CIVIL	

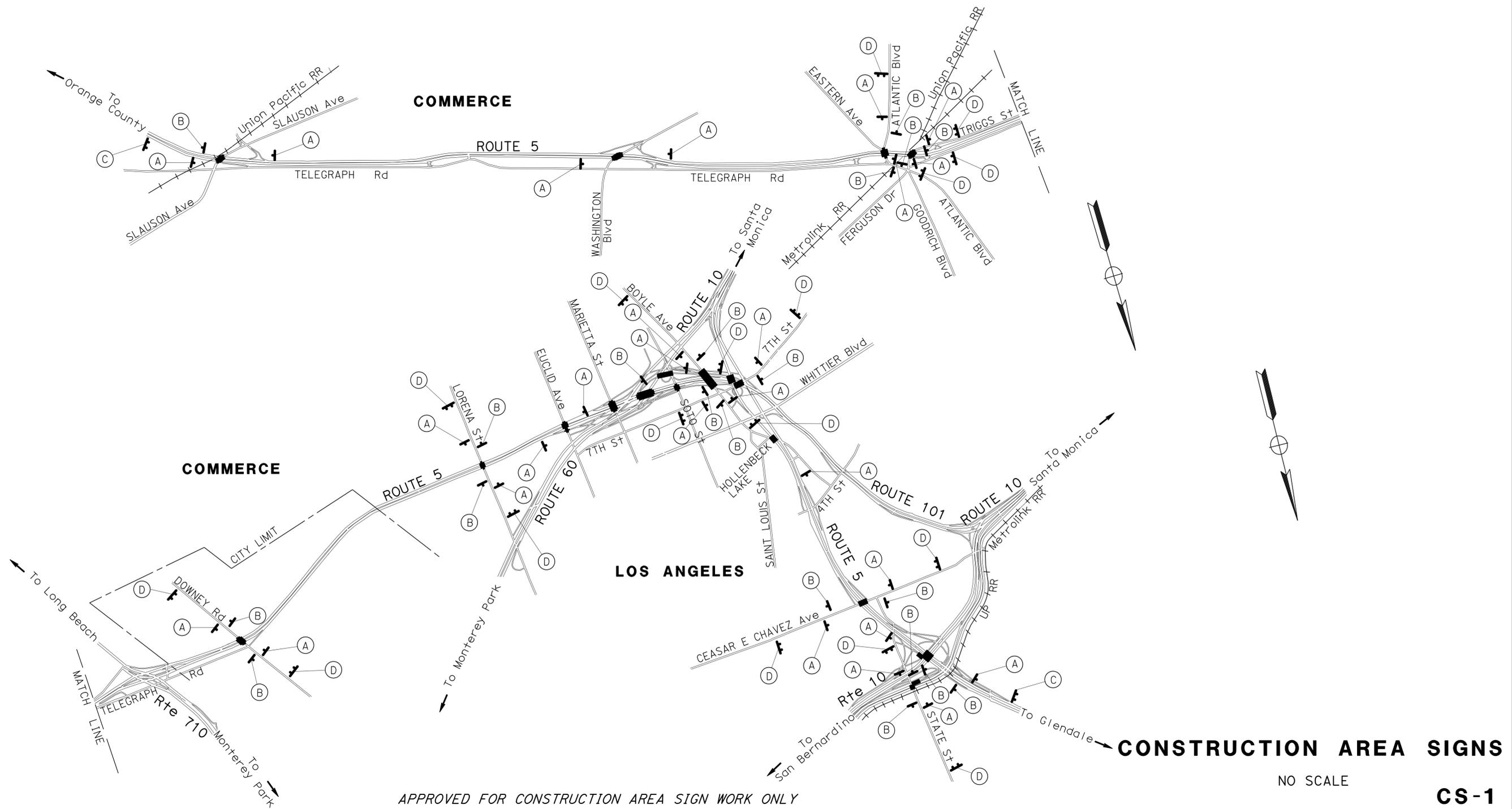
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. LOCATIONS OF CONSTRUCTION AREA SIGNS SHOWN ARE APPROXIMATE. THE ENGINEER DETERMINED EXACT LOCATIONS
2. C40 SIGNS SHALL BE PLACED APPROXIMATELY 500' IN ADVANCE OF W20-1 SIGNS OR AS THE ENGINEER DIRECTS
3. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No. (x)	SIGN CODE		SIGN MESSAGE	PANEL SIZE (INCH X INCH)	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
	FEDERAL	CALIFORNIA				
A	W20-1		ROAD WORK AHEAD	48 x 48	1 - 6" x 6"	26
B	G20-2		END ROAD WORK	48 x 24	1 - 4" x 6"	20
C		C40	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	144 x 60	2 - 6" x 8"	2
D		C40	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	108 x 42	2 - 6" x 8"	17



CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

REVISOR BY
 DATE

PAUL W. FOK
 SHAFIQUL ISLAM

CALCULATED-DESIGNED BY
 CHECKED BY

FUNCTIONAL SUPERVISOR
 SHAFIQUL ISLAM

USERNAME => s116260
 DGN FILE => 07-1w3901_0003(1a01).dgn

RELATIVE BORDER SCALE 1" = 100' IN INCHES

UNIT 1961

PROJECT NUMBER & PHASE

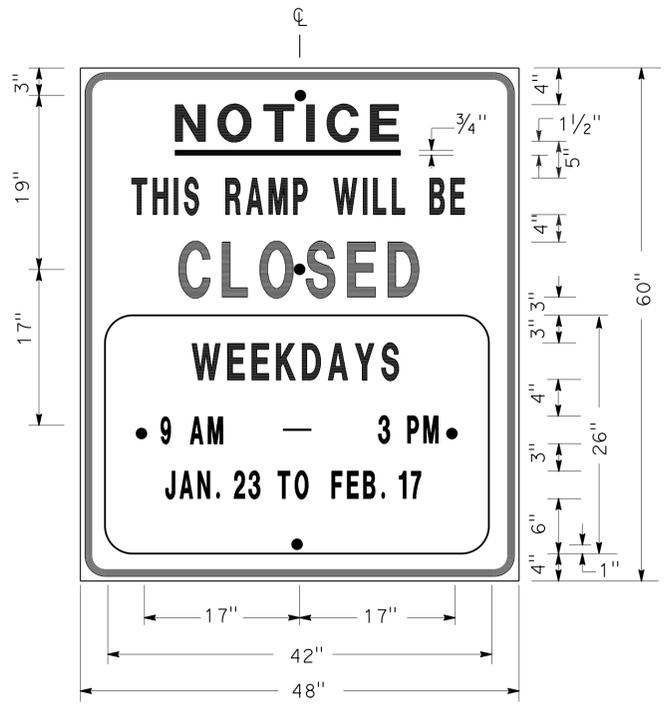
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LAST REVISION DATE PLOTTED => 01-MAR-2013
 02-06-13 TIME PLOTTED => 08:33

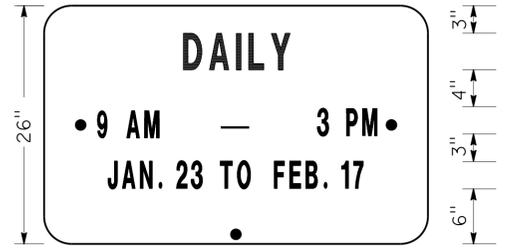
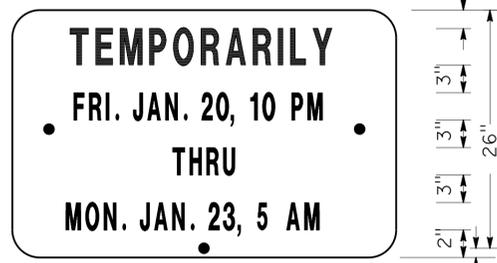
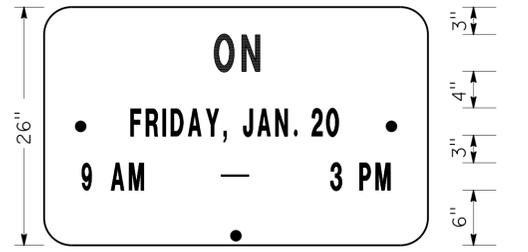
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,10	9.7/18.4, 18.3/18.5	4	40

REGISTERED CIVIL ENGINEER: *Dennis Katayama* 8-15-12
 DATE: 3-4-13
 PLANS APPROVAL DATE: 3-4-13
 No. C50648
 Exp. 9-30-13
 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.



SIGN SP-1



ALTERNATE OVERLAY PANELS (TYPICAL)

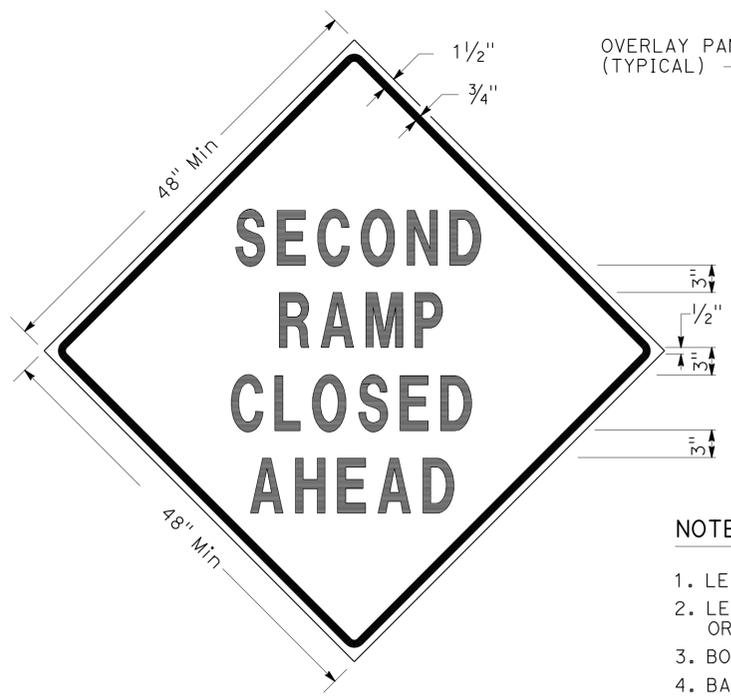
NOTES: SIGN SP-1

- LETTERS AND BORDER SHALL BE BLACK ON REFLECTORIZED ORANGE BACKGROUND.
- 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 7' ABOVE GROUND.

SIZE	BORDER WIDTH	MARGIN WIDTH	LETTER SIZE					CORNER RADIUS
			LINE 1	LINE 2*	LINE 3	LINE 4	LINE 5, 6, & 7*	
48"x60"	1 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



SIGN SP-3



SIGN SP-5

NOTES: SIGNS SP-3 & SP-5

- LETTERS - 6" SERIES D.
- LETTERS AND BORDER SHALL BE BLACK ON REFLECTORIZED ORANGE BACKGROUND.
- 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 7' ABOVE GROUND.
- SIGN SP-5 SHALL BE USED IF THE OFF-RAMP TO BE CLOSED FOLLOWS A FREEWAY OFF-CONNECTOR.

SPECIAL SIGNS FOR EXIT RAMP CLOSURES



SIGN SP-4

NOTES: SIGN SP-4

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

SPECIAL SIGN FOR ENTRANCE RAMP CLOSURES

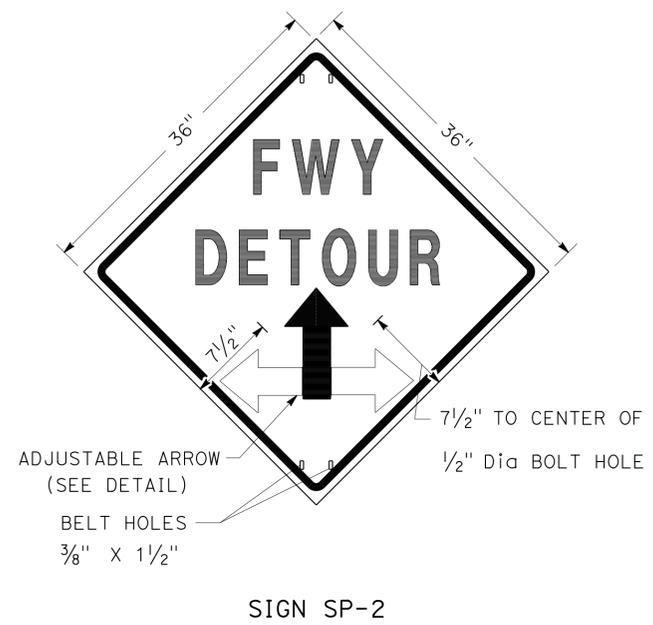
**TRAFFIC HANDLING DETAILS
 TRAFFIC CONTROL SYSTEM
 FOR RAMP CLOSURES, DETOUR SIGNS,
 AND MISCELLANEOUS DETAILS**

SHEET 1 OF 2

NO SCALE

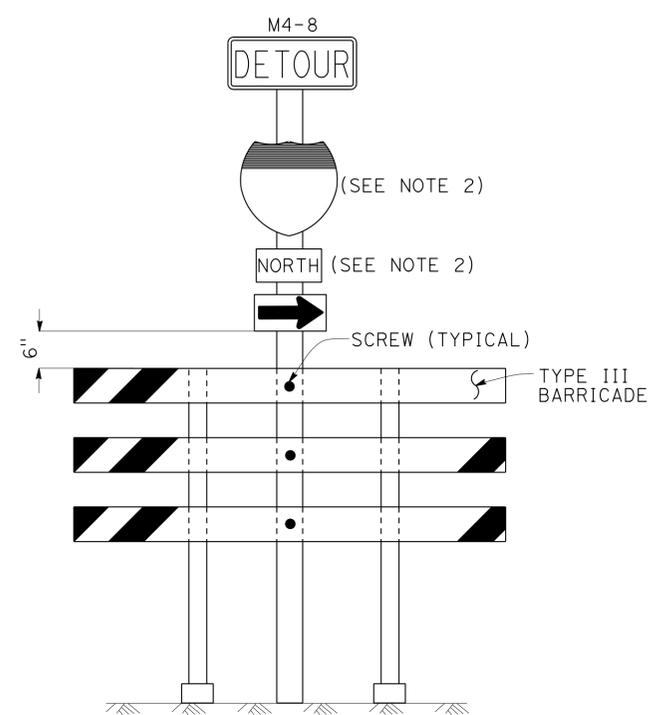
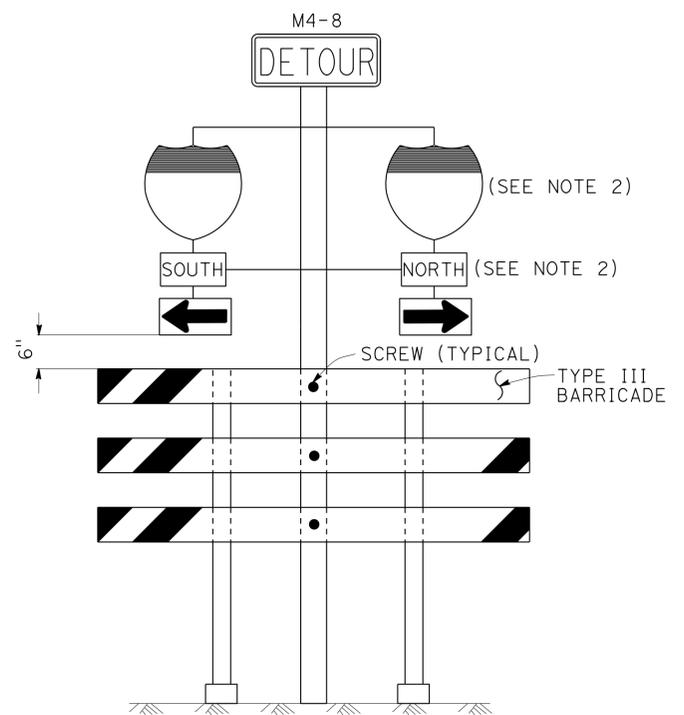
THD-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DTM
 FUNCTIONAL SUPERVISOR JOHN YANG
 CHECKED BY JOCELYN C CHIANG
 DESIGNED BY ALBERT K YU
 REVISIONS: JC 3/12
 REVISIONS: DATE REVISIONS



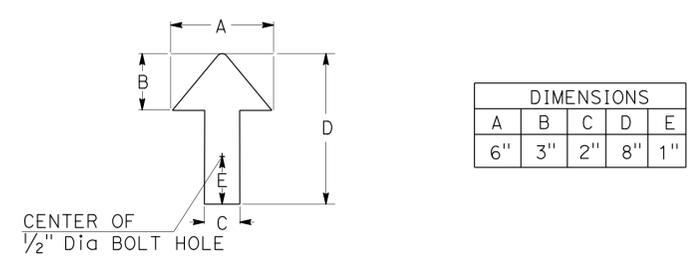
- NOTES:** SIGN SP-2
- LETTERS - 6" SERIES E.
 - LETTERS, BORDER AND ARROW - BLACK ON RETROREFLECTORIZED ORANGE BACKGROUND.
 - BASE MATERIAL FOR SIGNS AND ARROWS SHALL BE ALUMINUM (MINIMUM 0.06").
 - BELTS (LUGGAGE STRAPS) SHALL BE 1" WIDE BY 48" LONG, MADE OF COTTON OR POLYPROPYLENE WEB MATERIAL.
 -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

ABBREVIATION
 (CA) CALIFORNIA CODE



- NOTES:** SIGNS SP-6 & SP-7
- IN LIEU OF PLACING SIGNS ON TYPE III BARRICADES, SIGNS, INCLUDING POSTS, MAY BE PLACED INTO THE GROUND OR FASTENED ONTO ELECTROLIERS.
 - USE APPROPRIATE ROUTE MARKER [G26-2(CA), G27-2(CA), G28-2(CA)] AND CARDINAL DIRECTION [NORTH (M3-1), SOUTH (M3-3), EAST (M3-2), WEST (M3-4)].

SPECIAL PORTABLE FREEWAY DETOUR SIGNS



ADJUSTABLE ARROW DETAIL

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,10	9.7/18.4, 18.3/18.5	6	40

Demu Katayama 8-15-12
 REGISTERED CIVIL ENGINEER DATE
 3-4-13
 PLANS APPROVAL DATE

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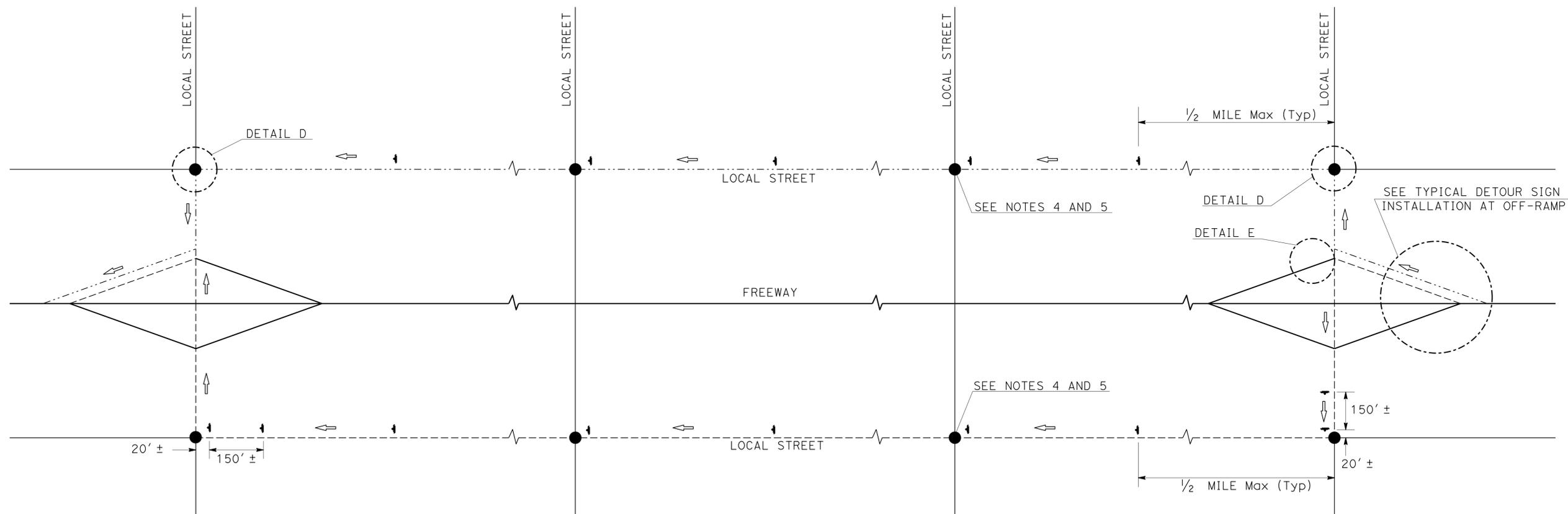
REGISTERED PROFESSIONAL ENGINEER
D.S. KATAYAMA
 No. C50648
 Exp. 9-30-13
 CIVIL
 STATE OF CALIFORNIA

LEGEND

- ↑ SIGN SP-2
- AND/OR DESIGNATED DETOUR ROUTE
- ⇨ DETOUR DIRECTION
- CONTROLLED INTERSECTION

NOTES:

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



TYPICAL DETOUR SIGN INSTALLATION ALONG DESIGNATED DETOUR ROUTE

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

NO SCALE

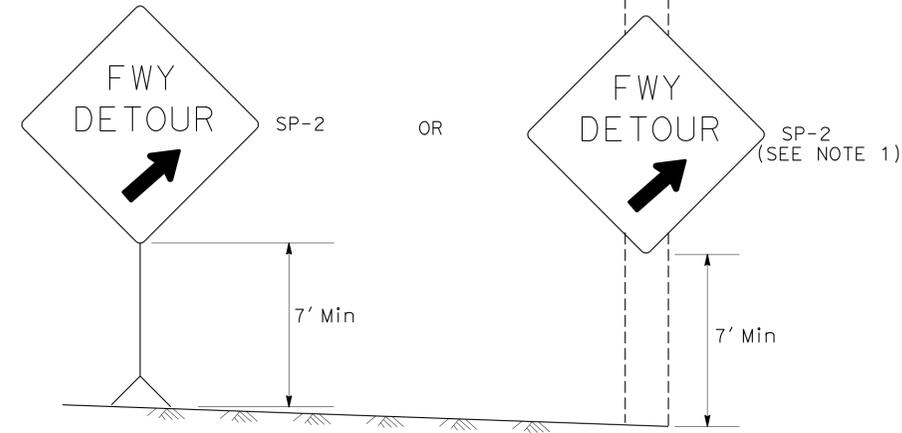
THD-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DT M
 FUNCTIONAL SUPERVISOR: JOHN YANG
 CHECKED BY: JOCELYN C CHIANG
 DESIGNED BY: ALBERT K YU
 REVISIONS: 3/12
 REVISED BY: JC

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,10	9.7/18.4, 18.3/18.5	7	40

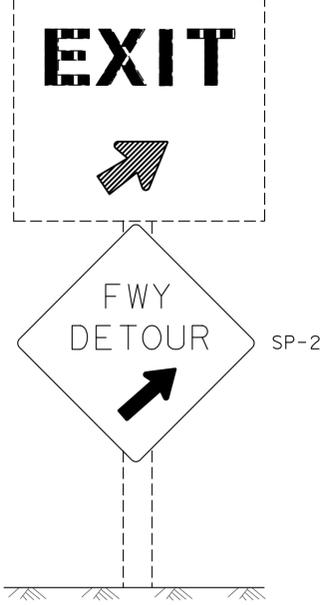
Demis Katayama 8-15-12
 REGISTERED CIVIL ENGINEER DATE
 3-4-13
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
D.S. KATAYAMA
 No. C50648
 Exp. 9-30-13
 CIVIL
STATE OF CALIFORNIA



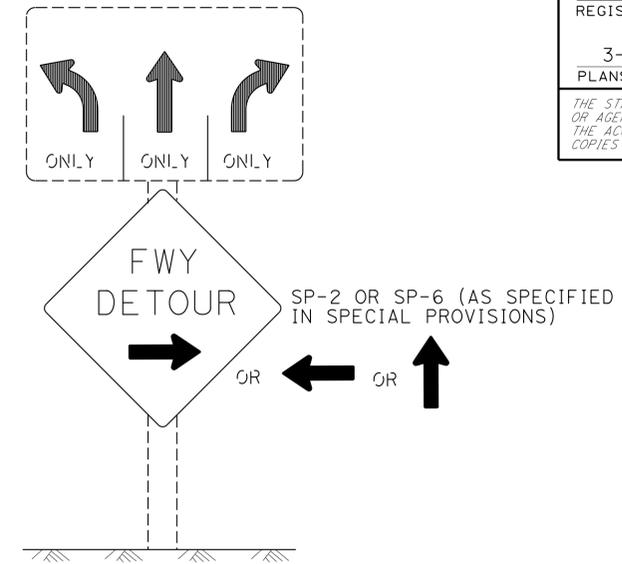
DETAIL A (SEE NOTE 3)

Exist E5-1, G84-2 (CA) OR G84-3 (CA)

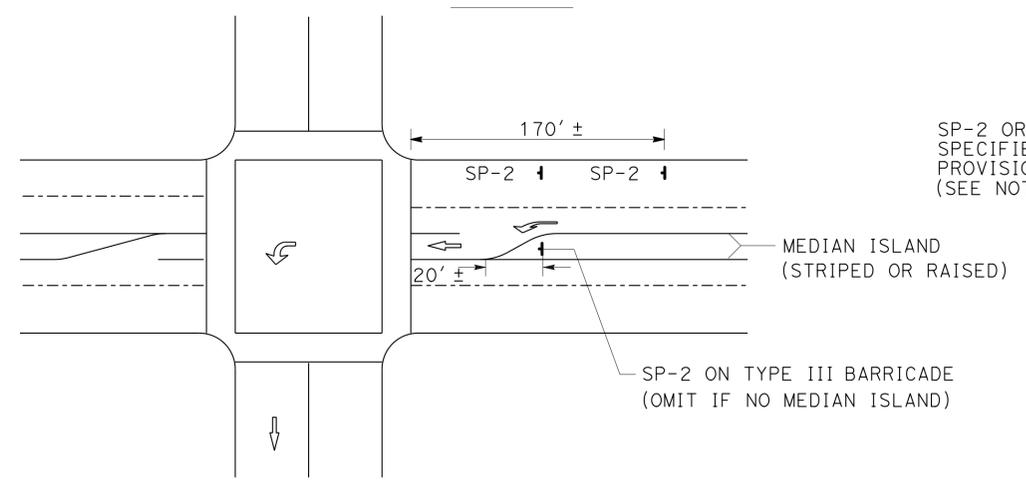


DETAIL B (SEE NOTE 3)

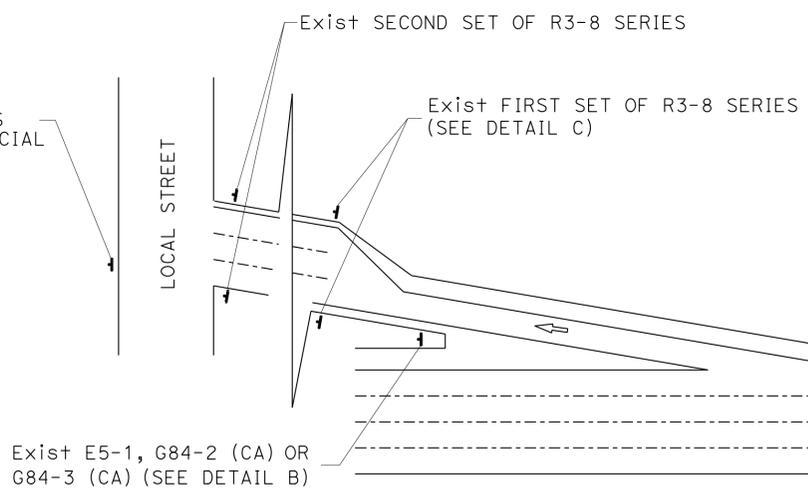
Exist R3-8 SERIES



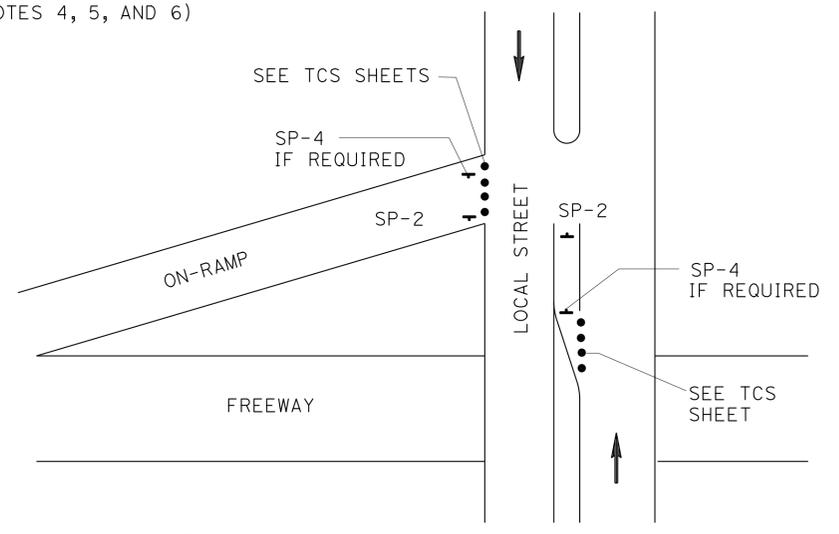
DETAIL C (SEE NOTES 4, 5, AND 6)



DETAIL D



TYPICAL DETOUR SIGN INSTALLATION AT OFF-RAMP



DETAIL E

- LEGEND**
- CONE
 - ↑ PORTABLE SIGN
 - ➔ DIRECTION OF TRAVEL
 - ➞ DETOUR DIRECTION
 - EXISTING OVERHEAD SIGN

SIGN CODE LEGEND

XXYY-Y: FEDERAL SIGN CODE PER MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)
 XXYY-Y (CA): CALIFORNIA SIGN CODE PER CALIFORNIA MUTCD

**TRAFFIC HANDLING DETAILS
 TRAFFIC CONTROL SYSTEM
 FOR DETOUR SIGN INSTALLATION
 ALONG DESIGNATED DETOUR ROUTE
 SHEET 2 OF 3**

NO SCALE

THD-4

NOTES: SIGN SP-2

1. SP-2 SIGNS MAY BE STRAPPED ON EXISTING ELECTROLIER, SIGNAL POST OR SIGN POST.
2. SP-2 SIGNS SHALL NOT BE INSTALLED ON BARRICADES EXCEPT AS OTHERWISE SHOWN.
3. OMIT DETAILS A AND B FOR FULL FREEWAY CLOSURES.
4. SEE TRAFFIC HANDLING DETAILS-TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURES, DETOUR SIGNS, AND MISCELLANEOUS DETAILS PLAN SHEET 2 OF 2 FOR SP-6 SIGN DETAILS.
5. IF R3-8 SERIES SIGNS ARE NOT PRESENT AT THE OFF-RAMP, SP-2 OR SP-6 SIGNS SHALL BE FASTENED ONTO EXISTING ELECTROLIER, SIGNAL POST OR SIGN POST.
6. EXCEPT FOR DETAILS A & B, OMIT SP-2 SIGNS IF RAMP HAS MANDATORY SINGLE MOVE.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DTM
 FUNCTIONAL SUPERVISOR: JOHN YANG
 CHECKED BY: JOCELYN C CHIANG
 REVISIONS: 3/12
 DESIGNED BY: ALBERT K YU
 DATE: 3/12

LAST REVISION: DATE PLOTTED => 01-MAR-2013
 00-00-00 TIME PLOTTED => 08:33

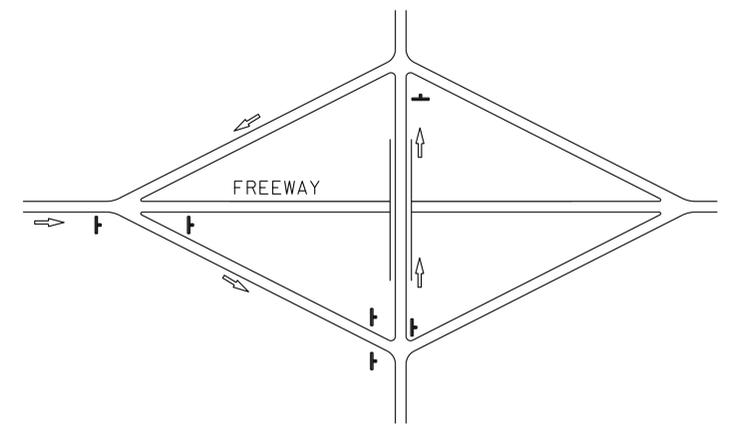
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,10	9.7/18.4, 18.3/18.5	8	40

Dennis Katayama 8-15-12
 REGISTERED CIVIL ENGINEER DATE
 3-4-13
 PLANS APPROVAL DATE

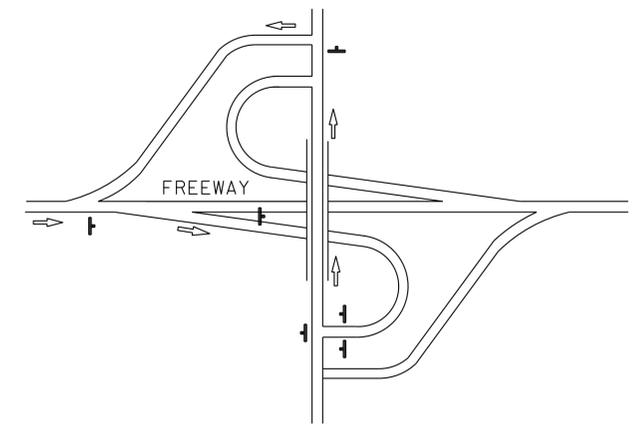
THE STATE OF CALIFORNIA OR ITS OFFICERS
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REGISTERED PROFESSIONAL ENGINEER
D.S. KATAYAMA
 No. C50648
 Exp. 9-30-13
 CIVIL
 STATE OF CALIFORNIA

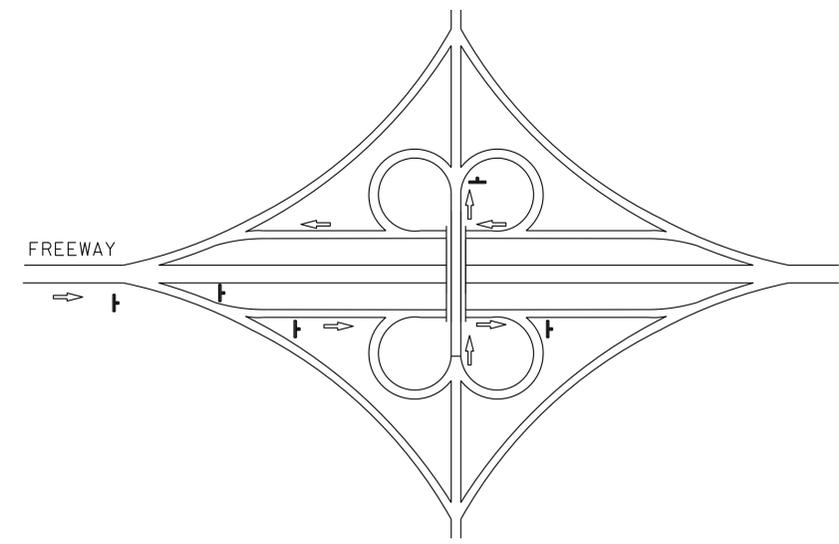
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DTM
 FUNCTIONAL SUPERVISOR: JOHN YANG
 CHECKED BY: [blank]
 DESIGNED BY: [blank]
 REVISOR: ALBERT K YU
 REVISION DATE: 3/12
 BY: JC



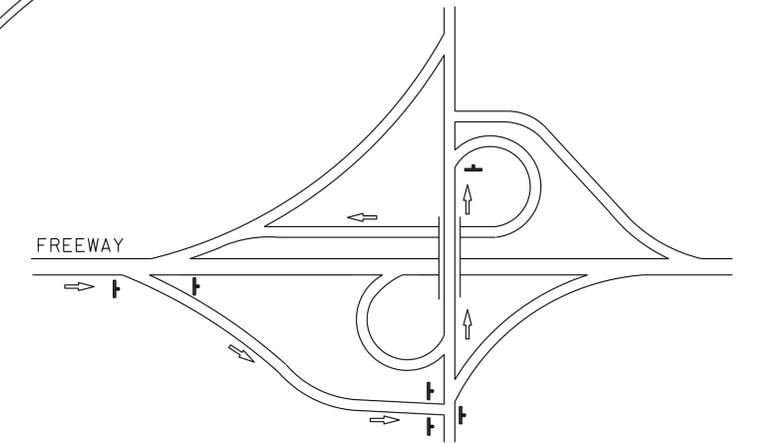
TYPE I



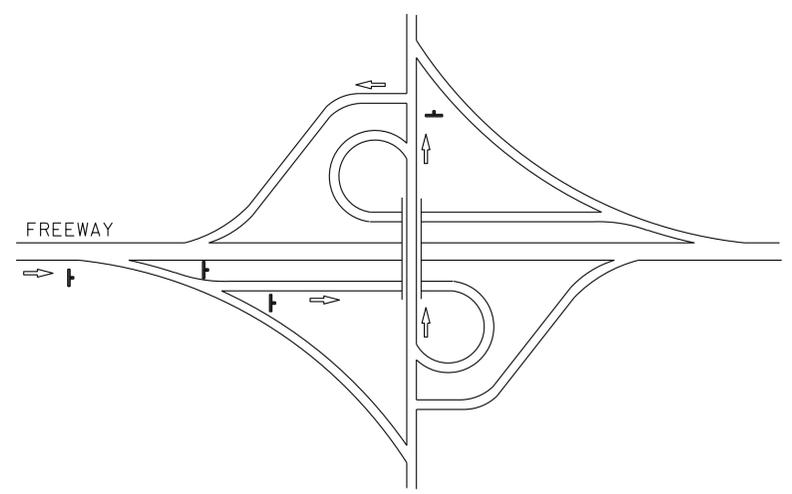
TYPE II



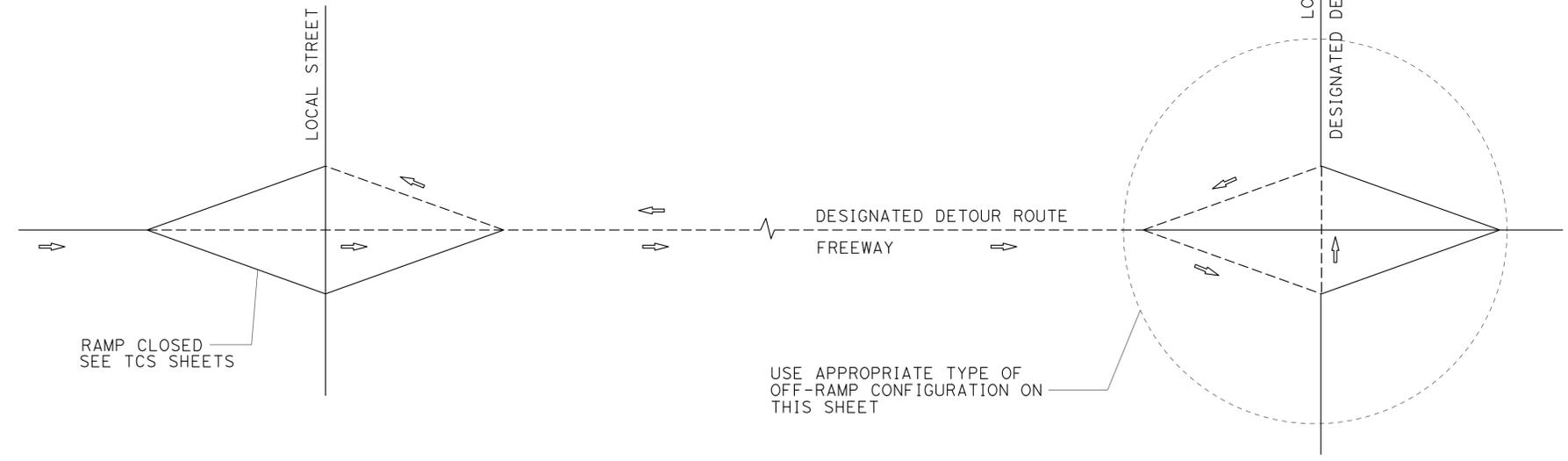
TYPE III



TYPE IV



TYPE V



TYPE OF OFF-RAMP CONFIGURATION	MINIMUM No. OF SP-2
TYPE I	6
TYPE II	6
TYPE III	5
TYPE IV	6
TYPE V	4

TYPICAL DETOUR SIGN INSTALLATION FOR OFF-RAMP CLOSURE

NOTES:

- FOR RAMP CONFIGURATIONS NOT SHOWN, THE EXACT LOCATIONS AND MINIMUM NUMBER OF SP-2 SIGNS SHALL BE DETERMINED BY THE ENGINEER.
- SEE TRAFFIC HANDLING DETAILS-TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURES, DETOUR SIGNS, AND MISCELLANEOUS DETAILS PLAN SHEET 2 OF 2 FOR SP-2 SIGN DETAILS.

LEGEND

- SIGN SP-2
- DETOUR DIRECTION
- DESIGNATED DETOUR ROUTE

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

NO SCALE

THD-5

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,10	9.7/18.4, 18.3/18.5	10	40

Dennis Katayama 8-15-12
 REGISTERED CIVIL ENGINEER DATE
 3-4-13
 PLANS APPROVAL DATE
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NOTES:

- LANE CLOSURES SHALL NOT BE PLACED ON CREST VERTICAL CURVES OR ON HORIZONTAL CURVES.
- PCMS SHALL BE ACTIVATED PRIOR TO TRAFFIC CONTROL ACTIVITIES ON THE LANE.
- A MINIMUM SIGHT DISTANCE OF 1500' SHALL BE PROVIDED IN ADVANCE OF PCMS.
- 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.

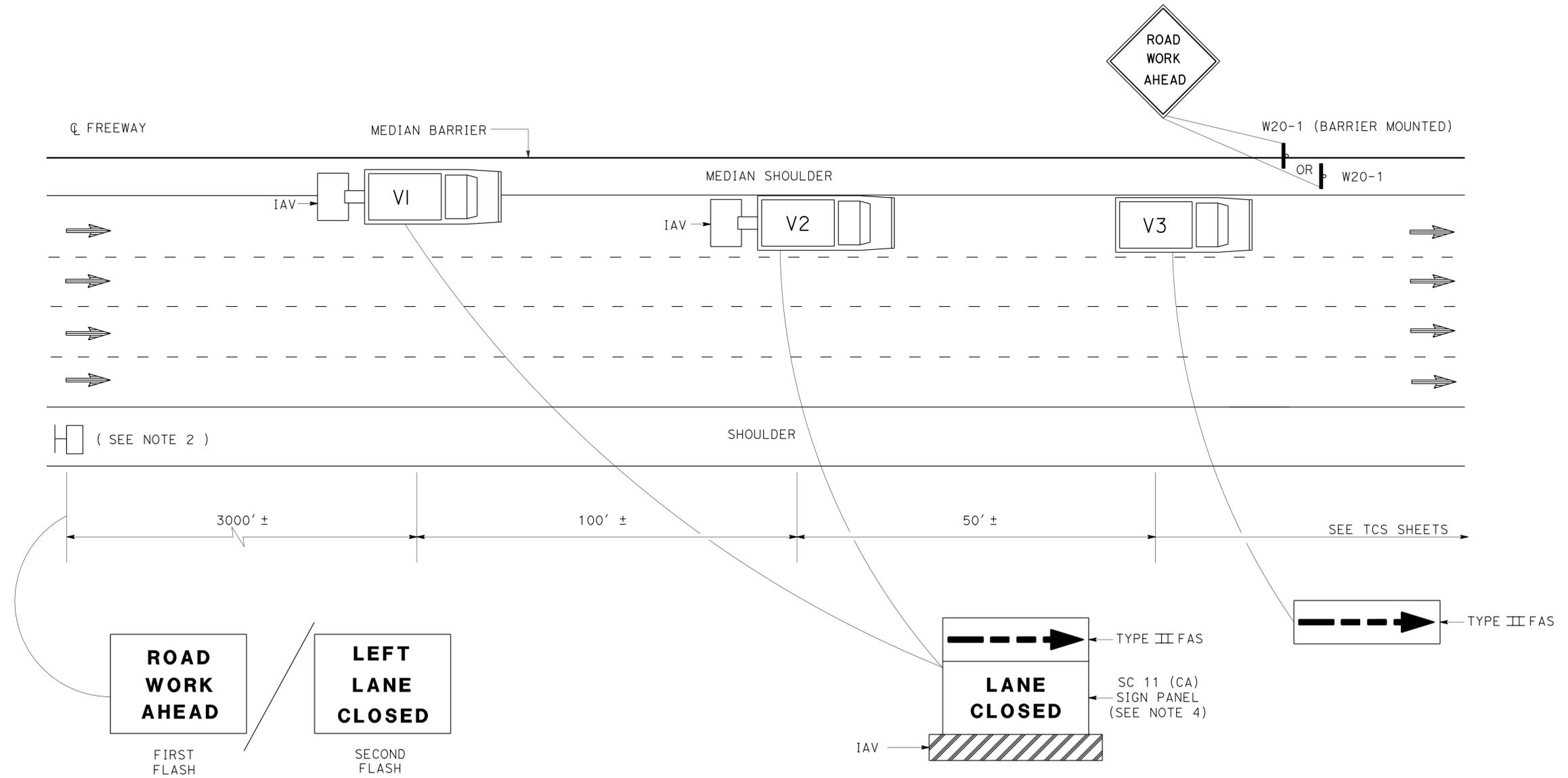
LEGEND

- V1, V2 SHADOW VEHICLES
- V3 WORK/APPLICATION VEHICLE
- 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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DTMM
 FUNCTIONAL SUPERVISOR JOHN YANG
 CHECKED BY
 DESIGNED BY
 REVISIONS: 3/12
 REVISOR: JC
 DATE: 3/12



PCMS OR TRUCK MOUNTED CMS MESSAGE

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

NO SCALE

THD-7

NOTES:

- EXACT LOCATION OF PCMS WILL BE DETERMINED BY THE ENGINEER TO PROVIDE ADEQUATE VISIBILITY.
- PCMS MESSAGE DISPLAYED WILL BE APPROVED BY THE ENGINEER.
- PCMS MESSAGE SHALL BE CHANGED AT THE BEGINNING OF CURE PERIOD TO REFLECT NUMBER OF CLOSED LANES.

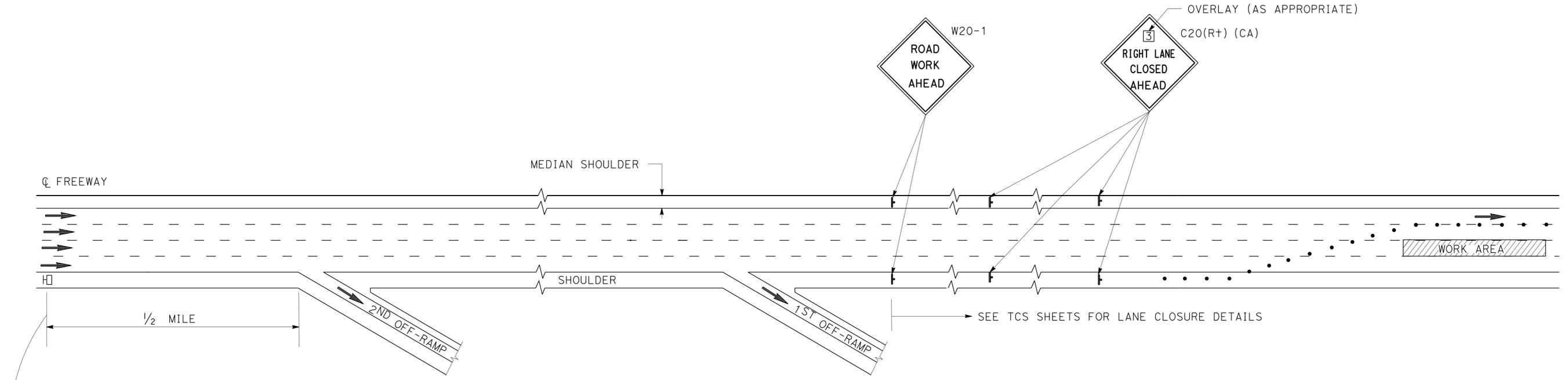
ABBREVIATIONS

PCMS PORTABLE CHANGEABLE MESSAGE SIGN
 (CA) CALIFORNIA CODE

LEGEND

- CONE
- ⊥ PORTABLE SIGN
- ➔ DIRECTION OF TRAVEL
- ☐ PCMS

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DTMM
 FUNCTIONAL SUPERVISOR: JOHN YANG
 CHECKED BY: JOCELYN C CHIANG
 REVISIONS: JC 3/12



FIRST FLASH	X (NO OF LANES) RIGHT / LEFT	← 1ST LINE (TYPICAL)
	LANES	← 2ND LINE (TYPICAL)
	CLOSED	← 3RD LINE (TYPICAL)
SECOND FLASH	A ST	← LIMIT OF CLOSURE (TYPICAL)
	TO B DR	← LIMIT OF CLOSURE (TYPICAL)

WORDING FORMAT FOR PCMS MESSAGE

**TRAFFIC HANDLING DETAILS
 TRAFFIC CONTROL SYSTEM
 FOR CONCRETE PAVEMENT AND
 APPROACH SLAB REPLACEMENT**

NO SCALE

THD-8

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,10	9.7/18.4 18.3/18.5	12	40

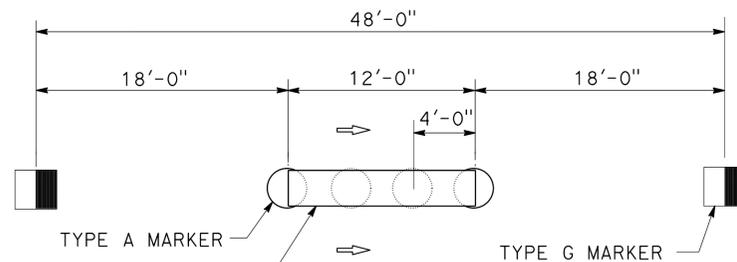
REGISTERED CIVIL ENGINEER DATE 2-6-13
 3-4-13
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 PAUL FOK
 No. C68473
 Exp. 9/30/13
 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.

LEGEND:

⇨ DIRECTION OF TRAVEL



APPLY 4" WIDE THERMOPLASTIC TRAFFIC STRIPE ON TOP OF TYPE A NON-REFLECTIVE MARKERS

DETAIL 13 (MODIFIED)

NO SCALE

PAVEMENT DELINEATION QUANTITIES

Loc No. (x)	ROUTE	PM	NAME OF BRIDGE	BRIDGE No.	LF	LF	SQFT	EA	THERMOPLASTIC TRAFFIC STRIPE								THERMOPLASTIC PAVEMENT MARKING	PAVEMENT MARKER				
									4" WHITE STRIPE BROKEN (17'-7')	4" WHITE STRIPE BROKEN (36'-12')	4" YELLOW STRIPE	4" YELLOW STRIPE	4" WHITE STRIPE	8" WHITE STRIPE	8" WHITE STRIPE	8" WHITE STRIPE		8" WHITE STRIPE	ARROW	RETROREFLECTIVE		NON-REFLECTIVE
																				DETAIL 8	DETAIL 13 MODIFIED	
LF	LF	LF	LF	LF	LF	SQFT	EA	EA	EA													
2	5	11.55	WASHINGTON Blvd UC	53-0635	728	416		147		1,248		416	416					26	17	104		
8	5	16.05	EUCLID AVENUE UC	53-1364R	165			9		60			30			60		4		5		
9	5	16.29	MARIETTA STREET UC	53-1387R	8	30		4		30		30						1	1	3		
12	5	16.59	S5-E60 CONNECTOR OC	53-1386F	1,014	676		169		1,352		676	676					28	28	113		
13	5	16.76	BOYLE AVENUE OC	53-0597	424	1,694			1,452		1,694											
14	10	18.33	E10-N5/ROUTE 5 SEPARATION	53-1367G	2,108	979		213		1,506		979	979	377				47	41	126		
15	5	16.90	SEVENTH STREET OC	53-1366R	540	180	44				180					270	44					
17	5	18.06	CESAR E. CHAVEZ AVENUE OC	53-1314	403	312	27		312		312					156	27					
18	10	18.41	W10-N5 CONNECTOR OH	53-1333F	2,260	1,277		311		2,415		1,277	1,380		138			56	53	201		
19	5	18.42	ROUTE 5/10 SEPARATION	53-1329	1,305	580		211		1,740		580	580		145			42	24	145		
SUB TOTAL					8,955	6,144	71	1,064	1,764	8,351	2,186	3,958	4,061	377	283	60	426	71	204	164	697	
TOTAL					8,955	6,144	71	1,064	1,764	8,351	10,204			1,146			71	368		697		

PAVEMENT DELINEATION QUANTITIES

PDQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: SHAFIQUL ISLAM

PAUL W. FOK

REVISOR: SHAFIQUL ISLAM

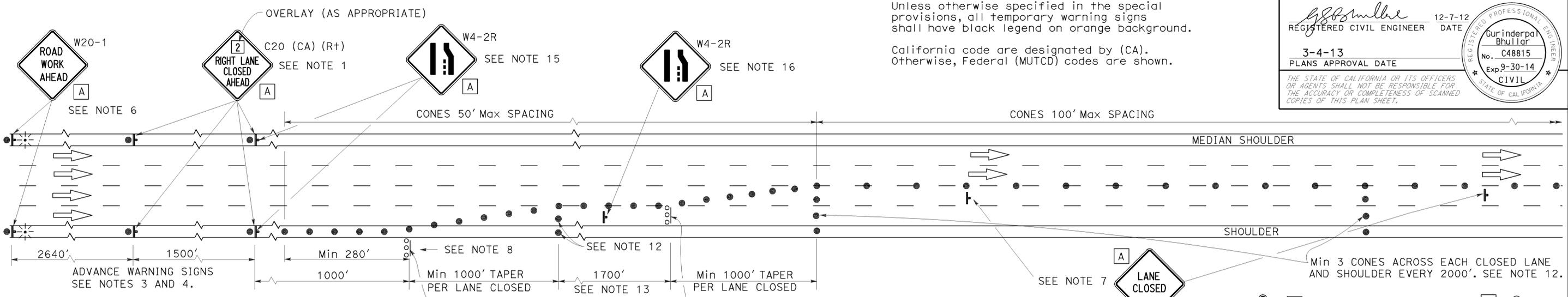
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,10	9.7/18.4 18.3/18.5	13	40

REGISTERED CIVIL ENGINEER	DATE
<i>Gurinderpal Bhullar</i>	12-7-12
No. C48815	
Exp. 9-30-14	
CIVIL	

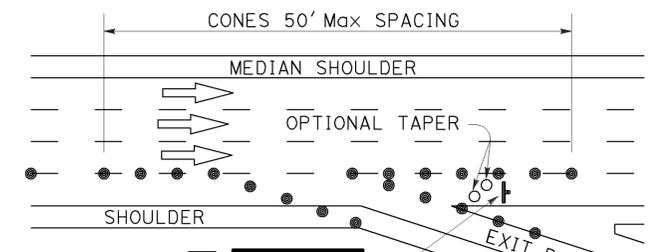
3-4-13
PLANS APPROVAL DATE

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.

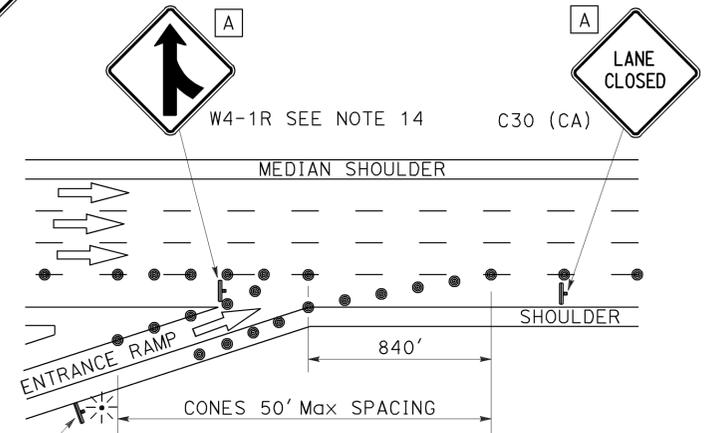
NOTES:
 Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on orange background.
 California code are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.



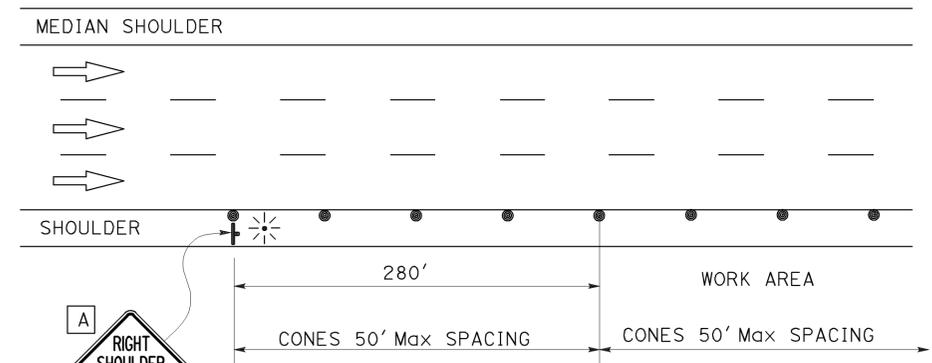
LANE CLOSURE



LANE CLOSURE AT EXIT RAMP



LANE CLOSURE AT ENTRANCE RAMP



SHOULDER CLOSURE

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

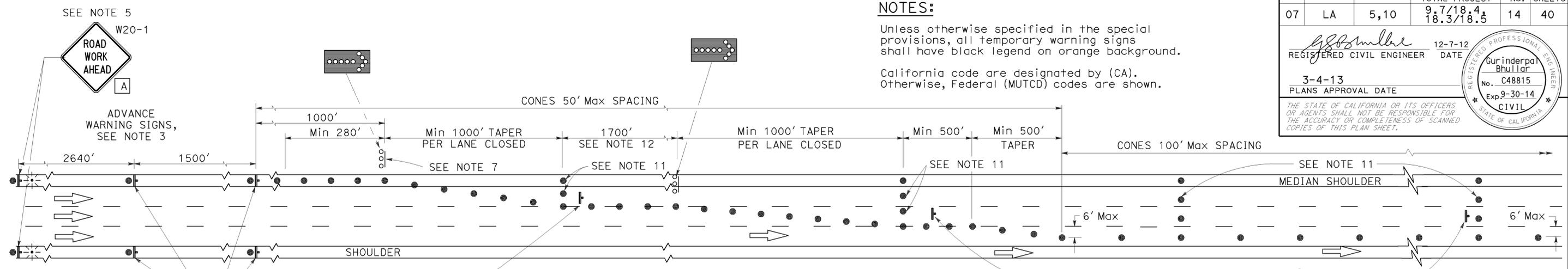
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Stantec

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,10	9.7/18.4 18.3/18.5	14	40

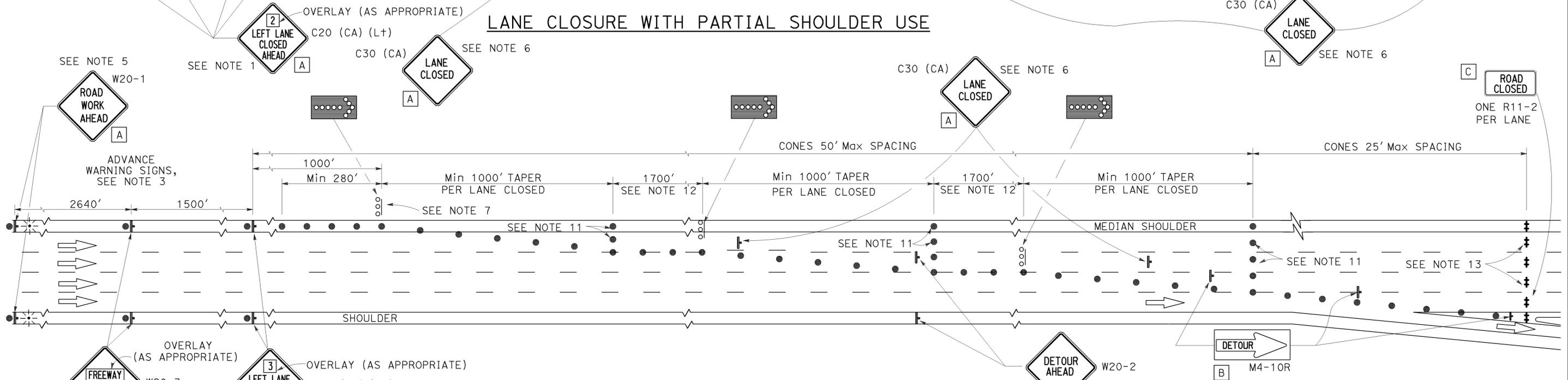
REGISTERED CIVIL ENGINEER		DATE
3-4-13		12-7-12
PLANS APPROVAL DATE		

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

NOTES:
 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.



LANE CLOSURE WITH PARTIAL SHOULDER USE



COMPLETE CLOSURE

NOTES:

- Lane closures on the right side using partial median shoulder as a traffic lane shall conform to the details for inside lane closure except that C20 (CA) (Rt) signs shall be used.
- At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
- Each advance warning sign on each side of the roadway shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" X 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
- A 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 the top of crest vertical curve or on a horizontal curve.
- All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
- Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000' as shown on the "Lane Closure With Partial Shoulder Use" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
- Unless otherwise specified in the special provisions, the 1700' tangent shown along lane lines shall be used between the 1000' tapers required for each closed traffic lane.
- A minimum of Two Type II barricades shall be placed across each closed lane and shoulder at the location shown and every 2000' within the complete closure area. Within the complete closure area, the transverse alignment of the barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
- When specified in the special provisions, a W20-2 "DETOUR AHEAD" sign is to be used in place of the W20-3 "FREEWAY CLOSED AHEAD" sign.

SIGN PANEL SIZE (Min)

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

LEGEND

- TRAFFIC CONE
- † TEMPORARY SIGN
- ‡ BARRICADE
- ○ ○ ○ ○ FLASHING ARROW SIGN (FAS)
- ○ ○ ○ ○ FAS SUPPORT OR TRAILER
- ☼ PORTABLE FLASHING BEACON

TRAFFIC CONTROL SYSTEM FOR LANE AND COMPLETE CLOSURES ON FREEWAYS AND EXPRESSWAYS

NO SCALE

TCS-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Et Caltrans
 REVISIONS: 00-00-00 TIME PLOTTED => 09:45
 10-00-00 DATE PLOTTED => 10-06-2012

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
	LA	5,10	9.7/18.4 18.3/18.5	15	40

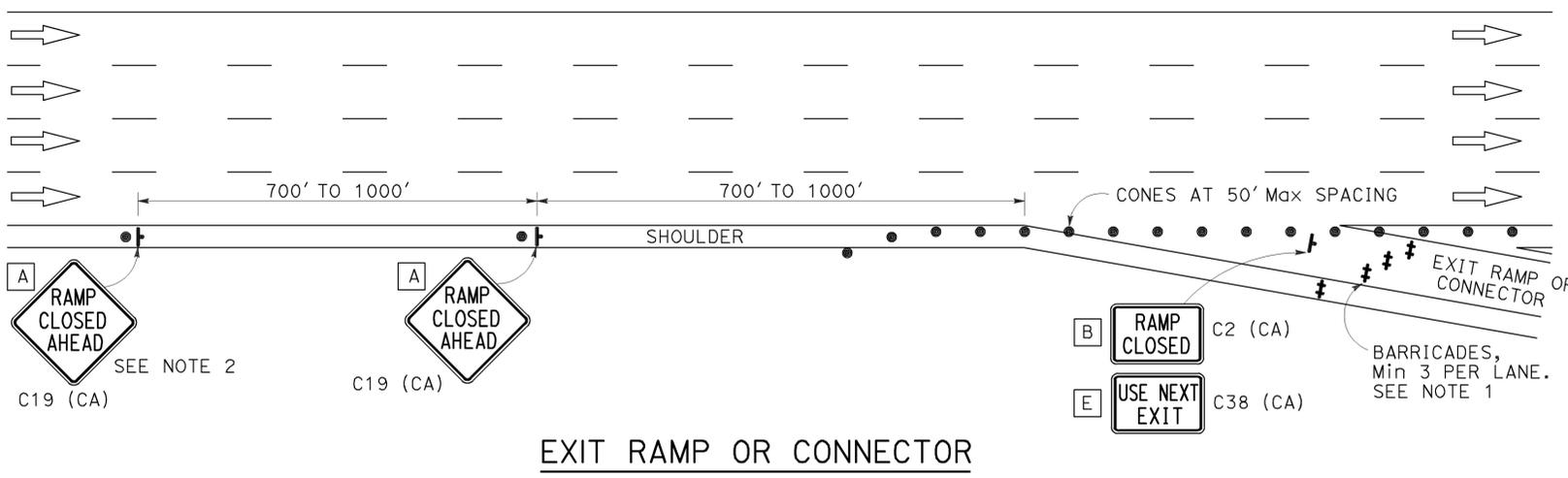
REGISTERED CIVIL ENGINEER
 12-7-12 DATE
 3-4-13 PLANS APPROVAL DATE
 Gurinderpal Bhullar
 No. C48815
 Exp. 9-30-14
 CIVIL
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

LEGEND

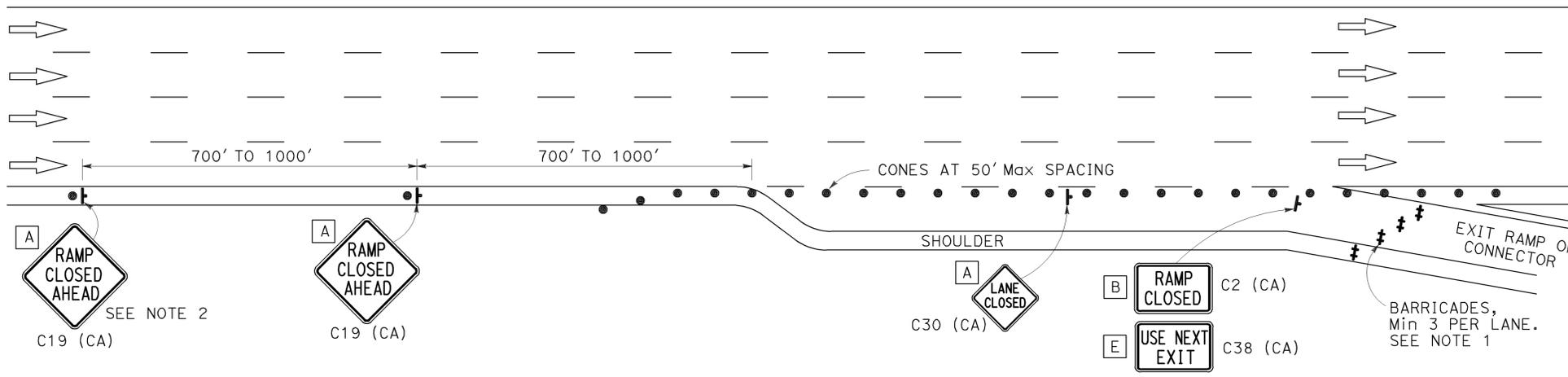
- TRAFFIC CONE
- † TEMPORARY SIGN
- ‡ BARRICADES

NOTES:

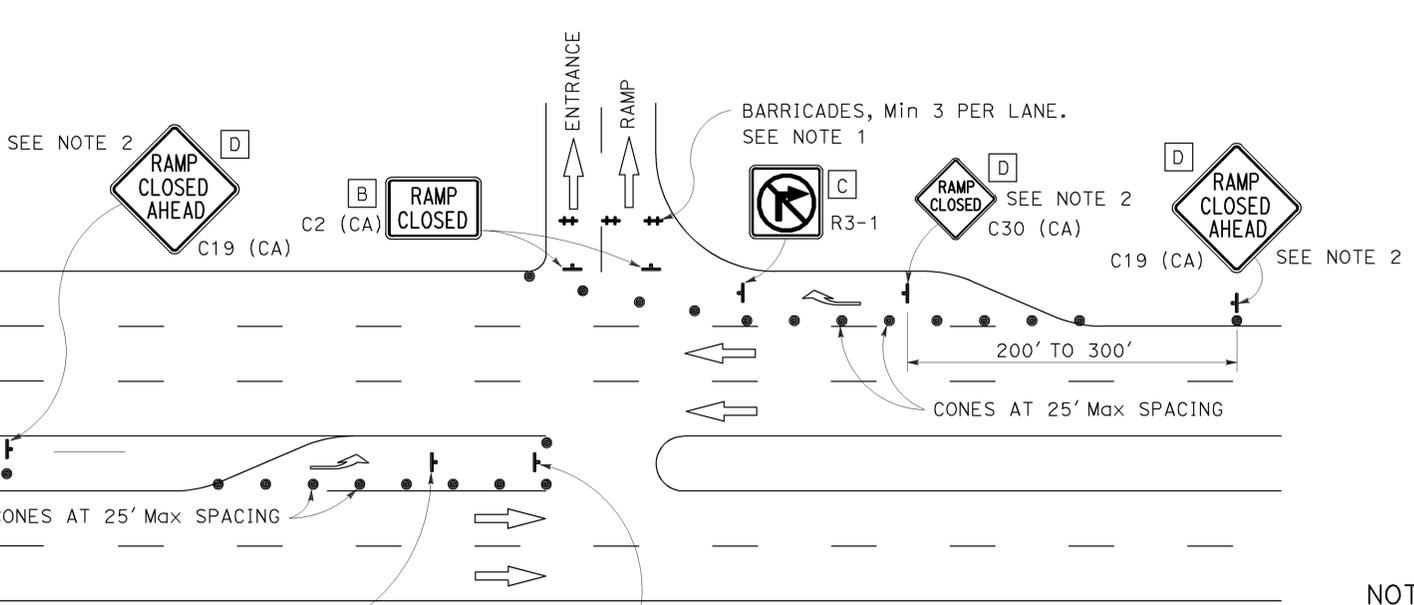
- Barricades shall be Type I, II, or III for closures lasting one week or less and Type III for closures lasting longer than one week.
- In addition to placing the C19 (CA) "RAMP CLOSED AHEAD" and C30 (CA) "RAMP CLOSED" signs, black on orange overlay plates with the word "CLOSED" may be mounted, as directed 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.



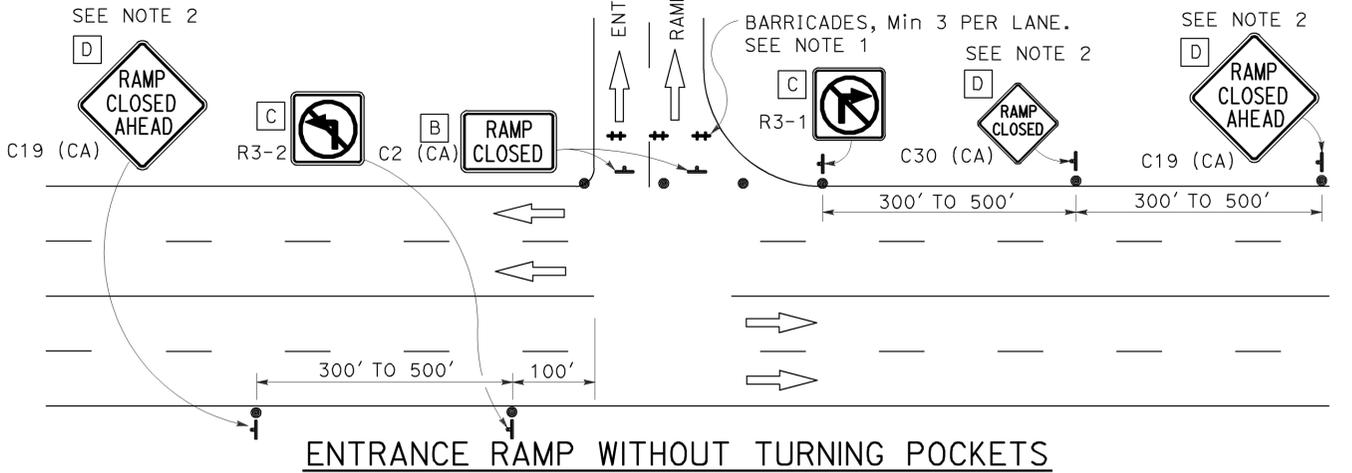
EXIT RAMP OR CONNECTOR



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-3

REVISOR BY
DATE

CALCULATED BY
DESIGNED BY
CHECKED BY

FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Et-Trans

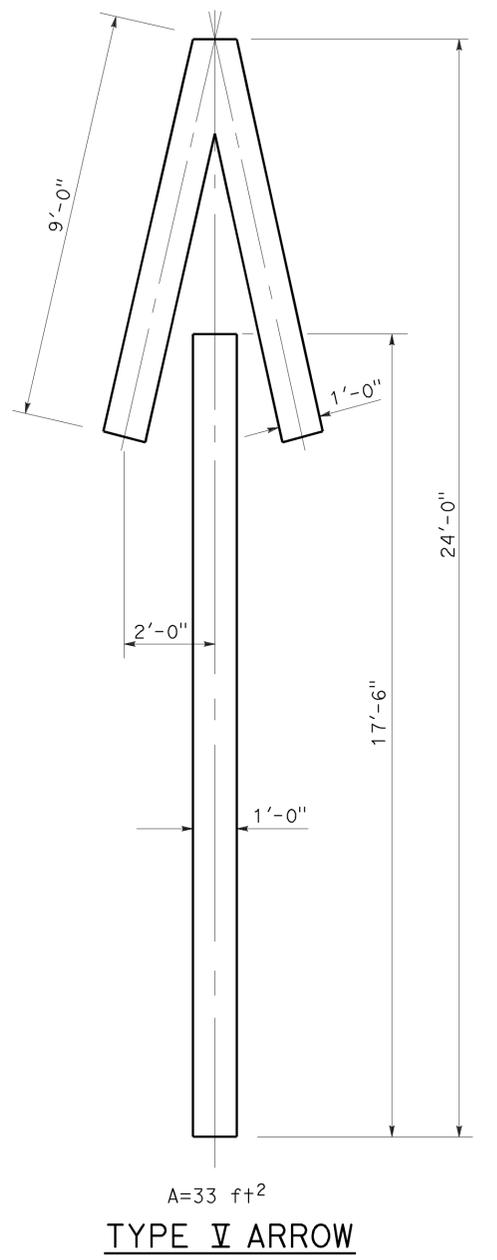
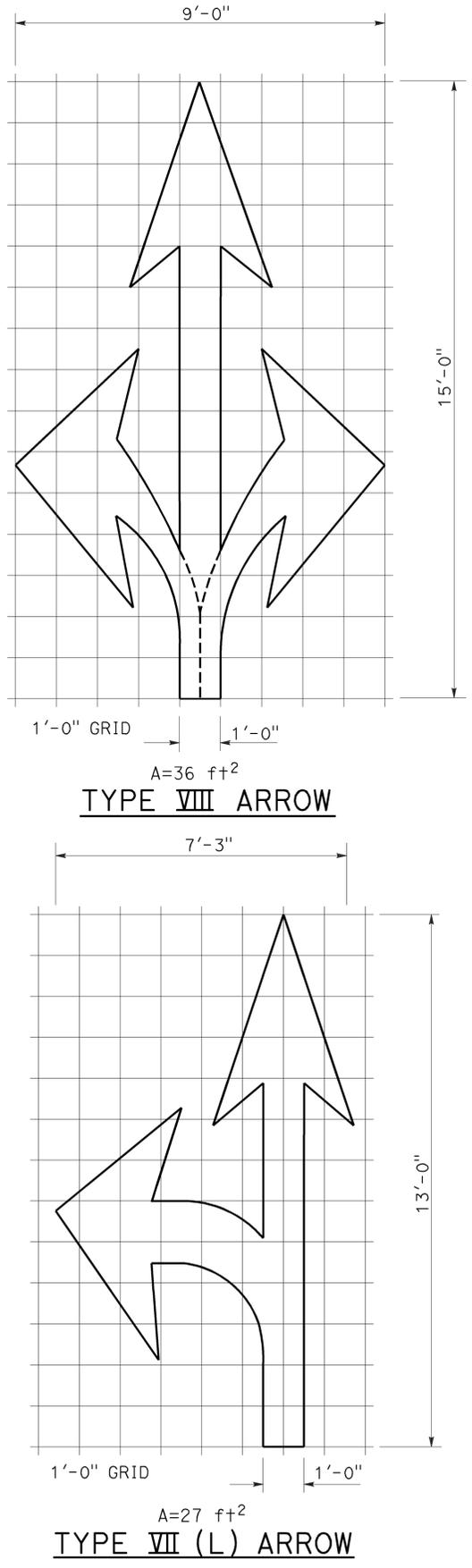
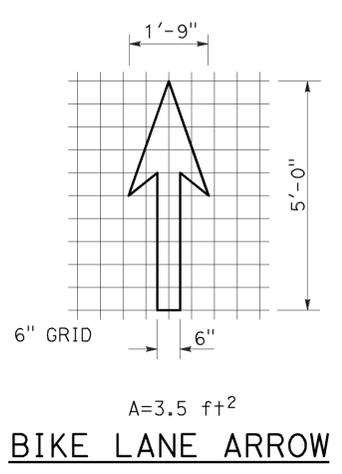
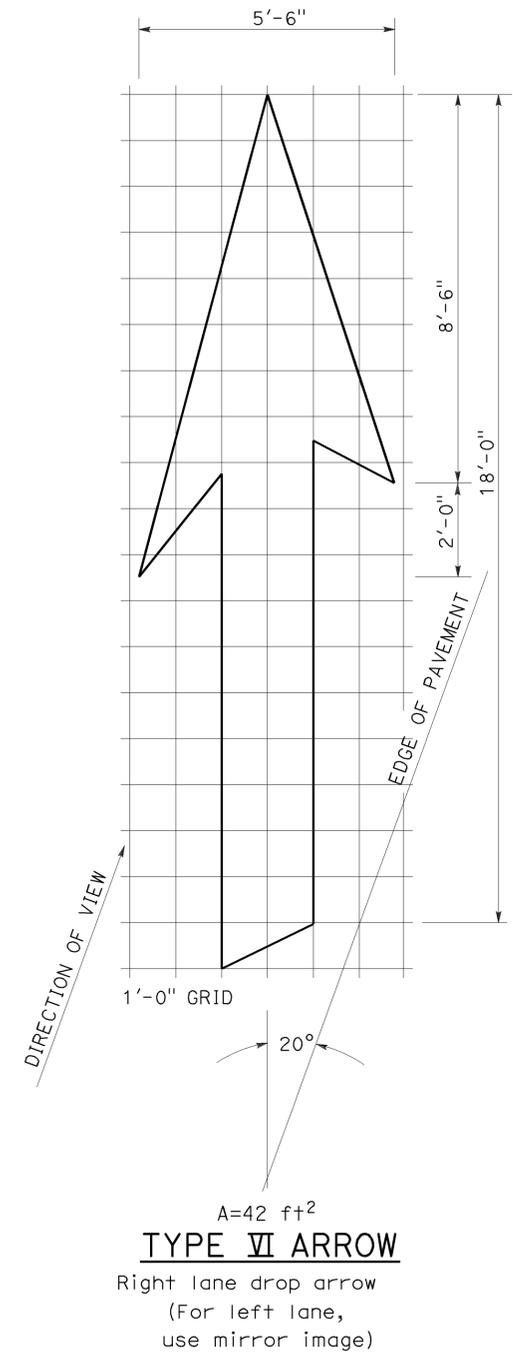
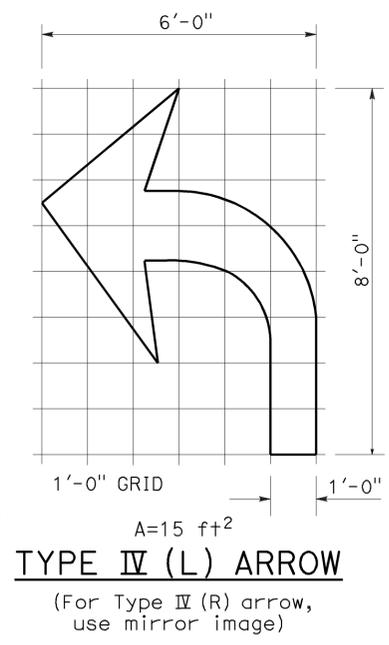
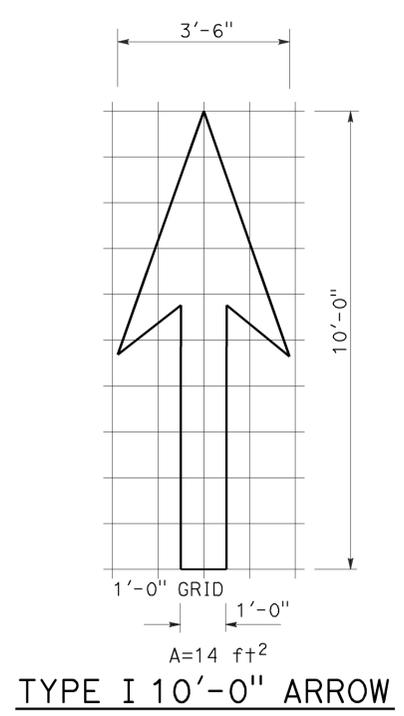
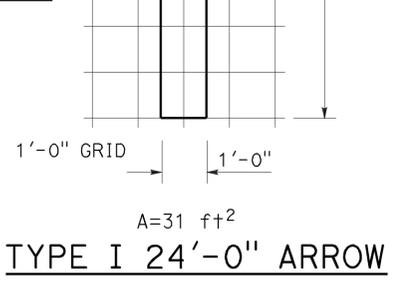
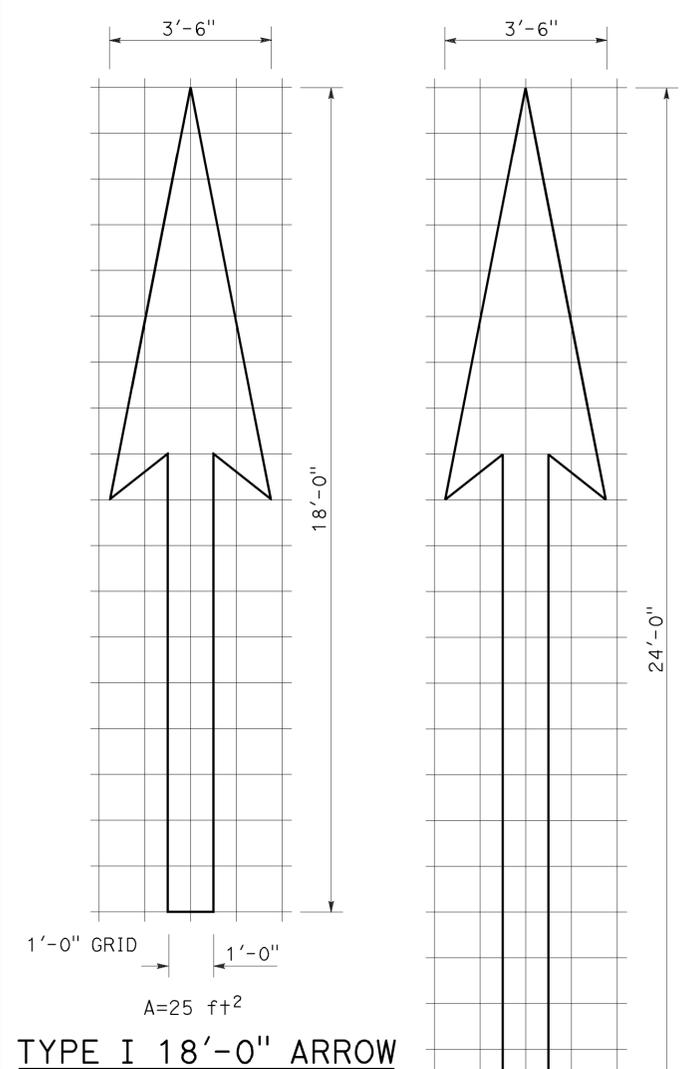
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,10	9.7/18.4 18.3/18.5	16	40

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

April 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

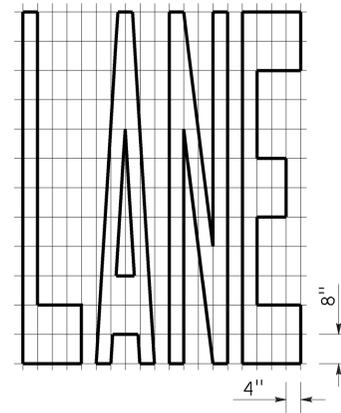


NOTE:
 Minor variations in dimensions may be accepted by the Engineer.

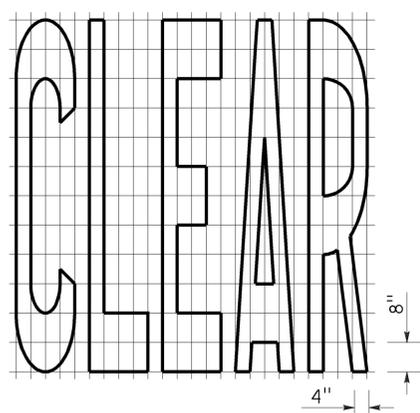
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**PAVEMENT MARKINGS
 ARROWS**
 NO SCALE

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

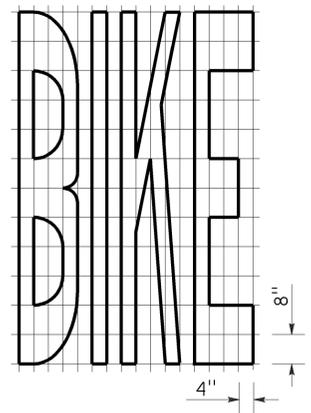
TO ACCOMPANY PLANS DATED 3-4-13



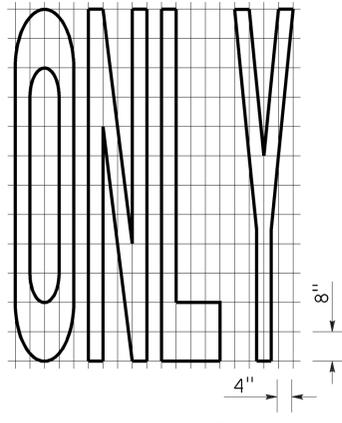
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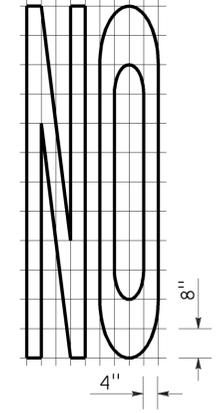
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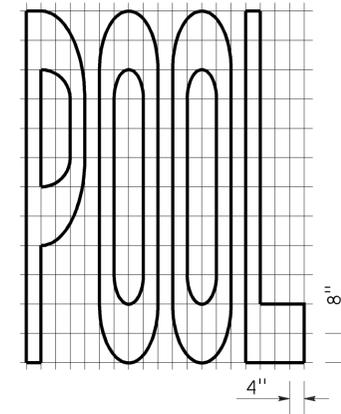
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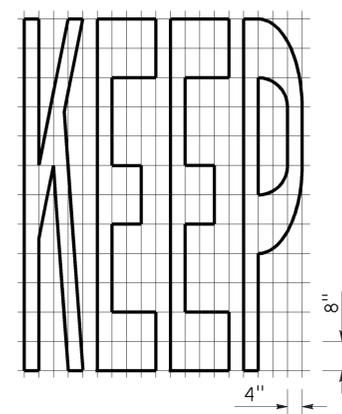
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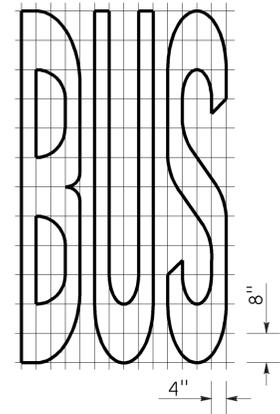
A=14 ft²



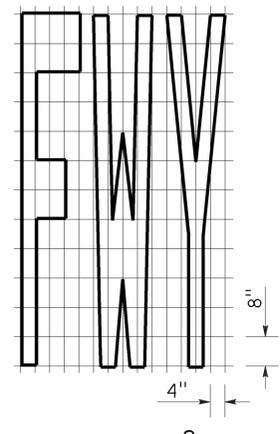
A=23 ft²



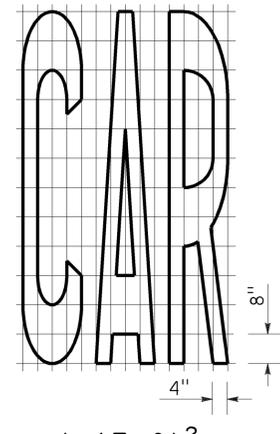
A=24 ft²



A=20 ft²

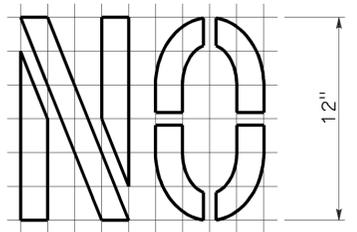


A=16 ft²



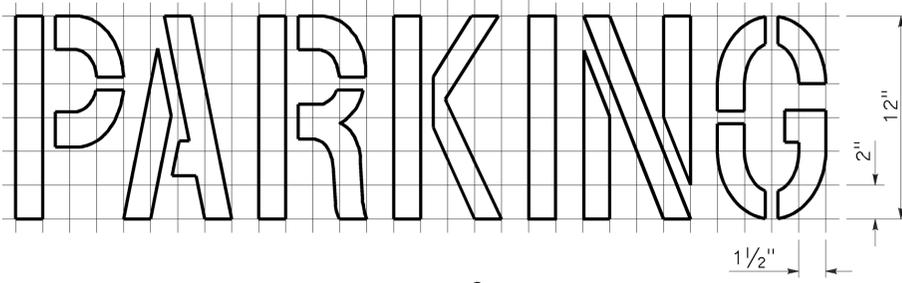
A=17 ft²

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



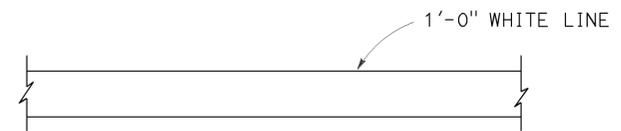
A=2 ft²

See Notes 6 and 7

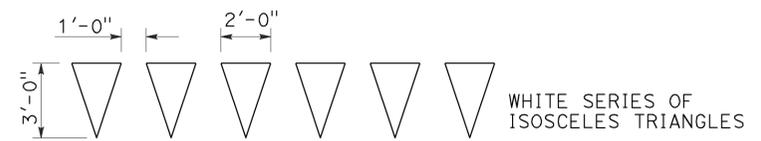


A=2 ft²

See Notes 6 and 7



LIMIT LINE (STOP LINE)



YIELD LINE

NOTES:

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

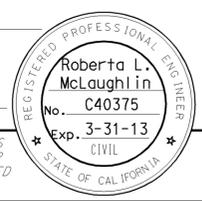
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKINGS
WORDS, LIMIT AND YIELD LINES
 NO SCALE

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

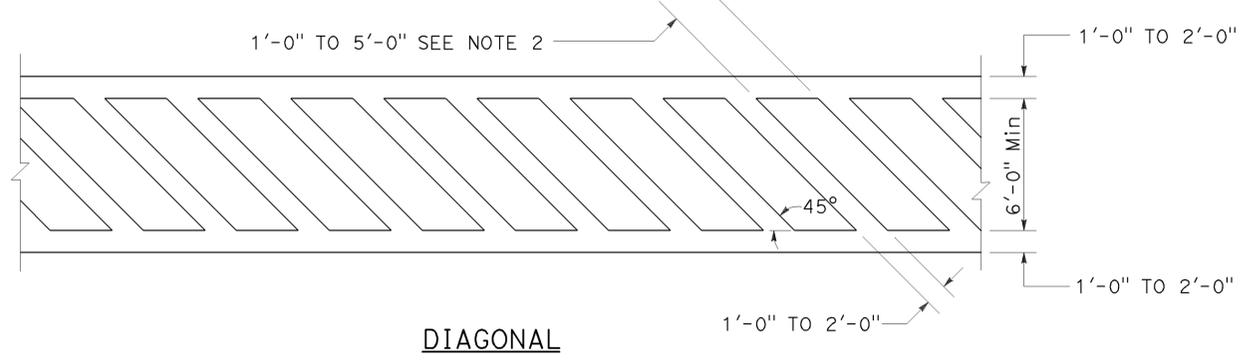
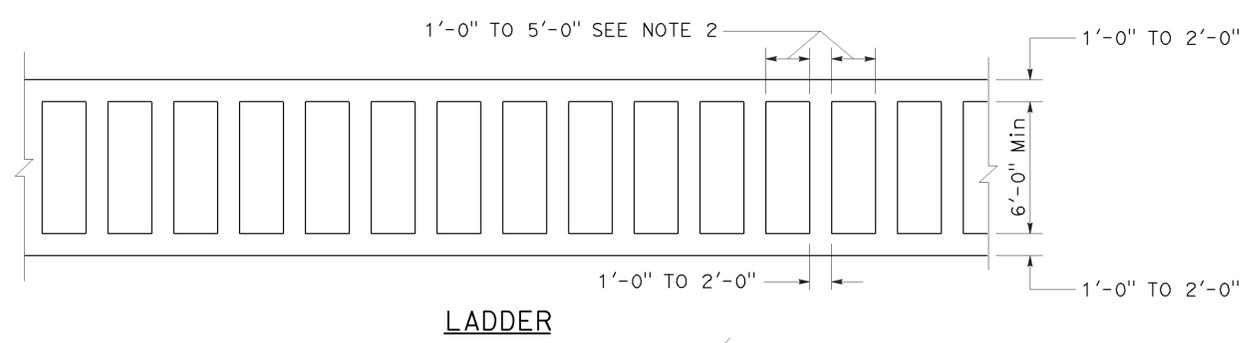
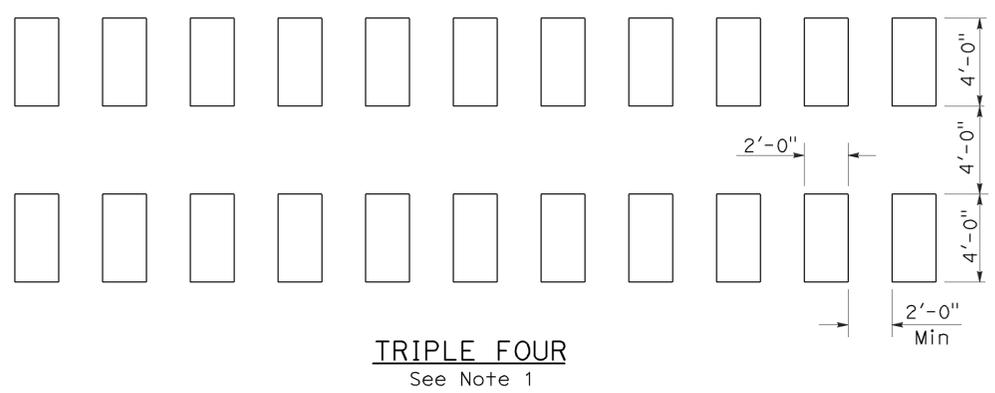
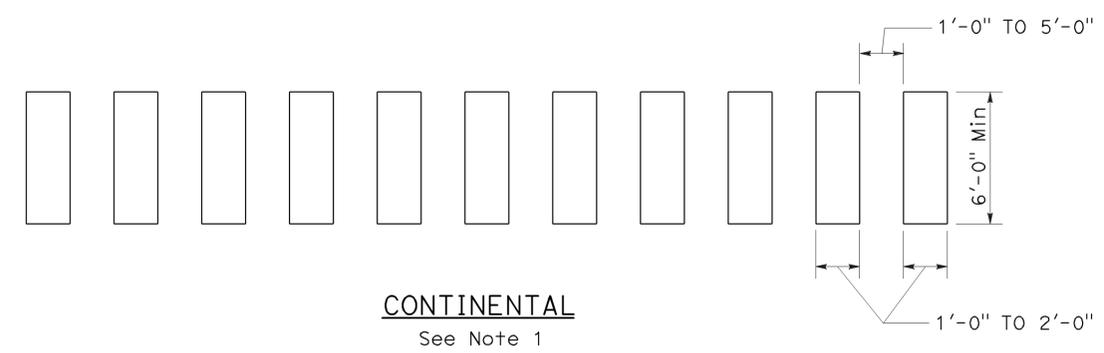
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,10	9.7/18.4 18.3/18.5	19	40

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.



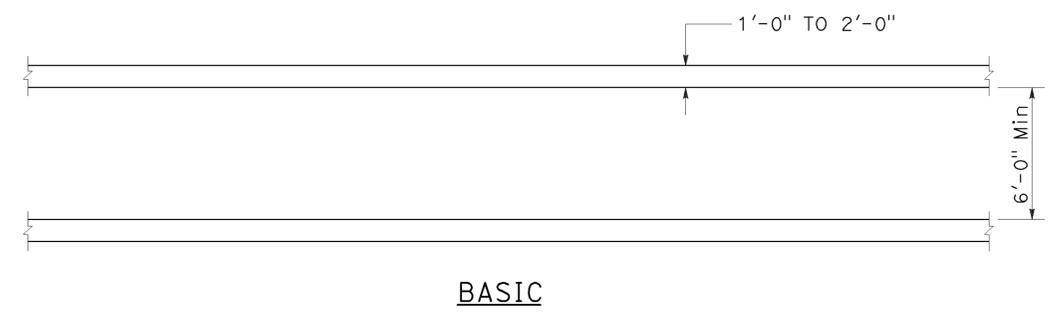
TO ACCOMPANY PLANS DATED 3-4-13



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	5,10	9.7/18.4 18.3/18.5	20	40

01-16-13
REGISTERED CIVIL ENGINEER DATE

3-4-13
PLANS APPROVAL DATE

EDWARD J. NAHM
No. C66900
Exp. 09/30/14
CIVIL
STATE OF CALIFORNIA

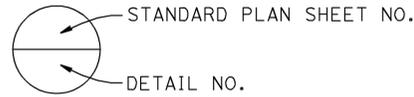
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

LEGEND:

- Indicates existing.
- ⇒ Indicates direction of traffic.
- ▨ Indicates limits of remove existing PCC approach and place new Structure Approach Type R(30D). For details see "STRUCTURE APPROACH TYPE R(30D)" sheet.
- Indicates location of clean expansion joint and placement of new joint seal.
- ▨ Indicates removal of unsound concrete and place rapid setting concrete (patch).
- Indicates limit of placement of new joint seal.
- * Indicates limit of paving notch extension.

STANDARD PLANS DATED MAY 2010

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



NOTE:

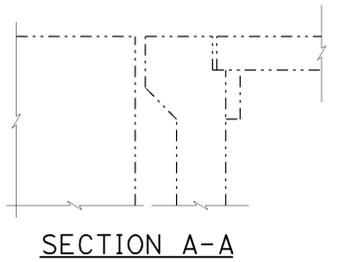
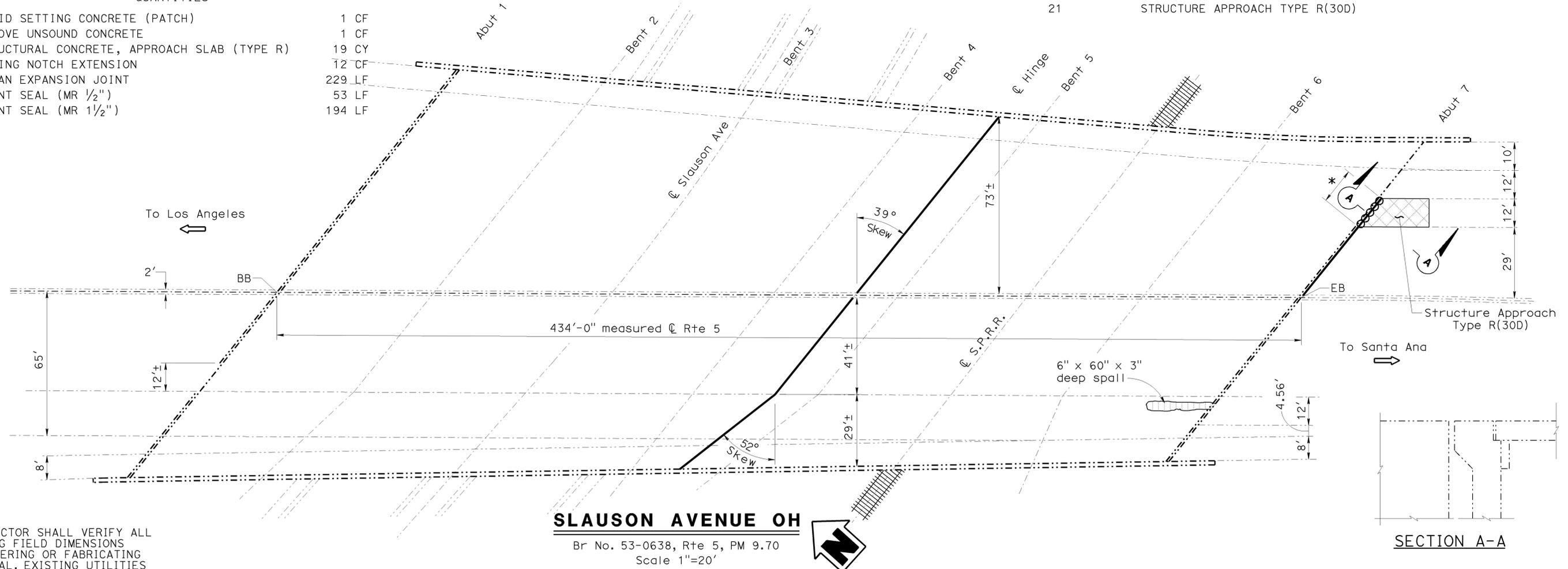
1. For deck damage repair detail and spall repair detail, see "MISCELLANEOUS DETAILS NO. 3" sheet.

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	MISCELLANEOUS DETAILS NO. 1
18	MISCELLANEOUS DETAILS NO. 2
19	MISCELLANEOUS DETAILS NO. 3
20	JOINT SEAL REPLACEMENT DETAILS
21	STRUCTURE APPROACH TYPE R(30D)

SLAUSON AVENUE OH #53-0638
QUANTITIES

RAPID SETTING CONCRETE (PATCH)	1 CF
REMOVE UNSOUND CONCRETE	1 CF
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	19 CY
PAVING NOTCH EXTENSION	12 CF
CLEAN EXPANSION JOINT	229 LF
JOINT SEAL (MR 1/2")	53 LF
JOINT SEAL (MR 1 1/2")	194 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.

SLAUSON AVENUE OH

Br No. 53-0638, Rte 5, PM 9.70
Scale 1"=20'

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Edward Nahm	CHECKED Tony Brake	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.	Various	ROUTES 5,10 BRIDGES GENERAL PLAN NO. 1
	DETAILS	BY Clayton Tom	CHECKED Edward Nahm	LAYOUT	BY Clayton Tom			POST MILE	Varies	
	QUANTITIES	BY Edward Nahm	CHECKED Tony Brake	SPECIFICATIONS	BY Steven Seifert			PLANS AND SPECS COMPARED	Steven Seifert	

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

UNIT: 3489
PROJECT NUMBER & PHASE: 0712000049 1 CONTRACT NO.: 07-1W3901

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
08-11-12 10-11-12 01-07-13 01-16-13	01	21

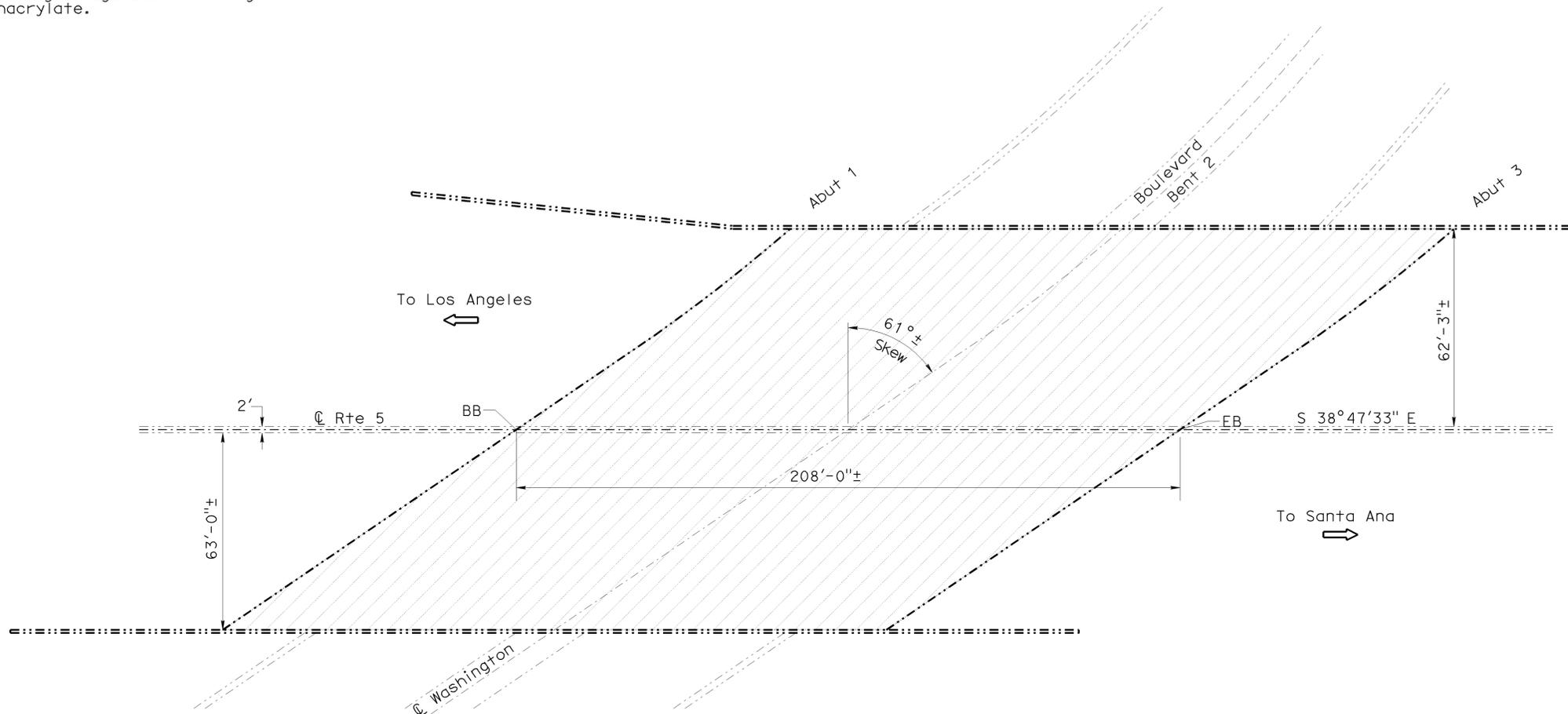
FILE => 07-1W3901-a-gp01.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,10	9.7/18.4 18.3/18.5	21	40

01-16-13
 REGISTERED CIVIL ENGINEER DATE
 3-4-13
 PLANS APPROVAL DATE
 No. C66900
 Exp. 09/30/14
 CIVIL
 STATE OF CALIFORNIA
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

LEGEND:

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



WASHINGTON BOULEVARD UC

Br No. 53-0635, Rte 5, PM 11.55
Scale 1"=20'

WASHINGTON BOULEVARD UC #53-0635
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	26,052 SQFT
TREAT BRIDGE DECK	26,052 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	326 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.

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Edward Nahm	CHECKED Tony Brake	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.	ROUTES 5,10 BRIDGES GENERAL PLAN NO. 2				
	DETAILS	BY Clayton Tom	CHECKED Edward Nahm	LAYOUT	BY Clayton Tom			CHECKED Edward Nahm		POST MILE			
	QUANTITIES	BY Edward Nahm	CHECKED Tony Brake	SPECIFICATIONS	BY Steven Seifert			CHECKED Steven Seifert		Varies			
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3489	PROJECT NUMBER & PHASE: 0712000049 1	CONTRACT NO.: 07-1W3901	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 02	OF 21

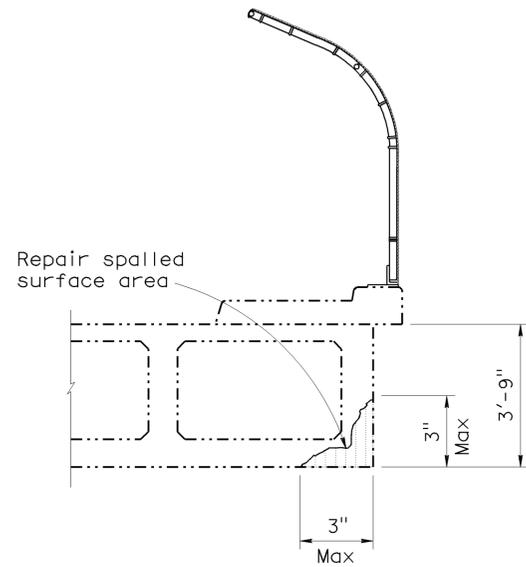
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,10	9.7/18.4 18.3/18.5	22	40
			01-16-13	DATE	
			3-4-13	PLANS APPROVAL DATE	
			REGISTERED CIVIL ENGINEER No. C66900 Exp. 09/30/14 CIVIL STATE OF CALIFORNIA		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					

LEGEND:

- Indicates existing.
- ⇒ Indicates direction of traffic.
- Indicates location of clean existing joint and placement of new joint seal.
- ▨ Indicates repair spalled surface area.

NOTE:

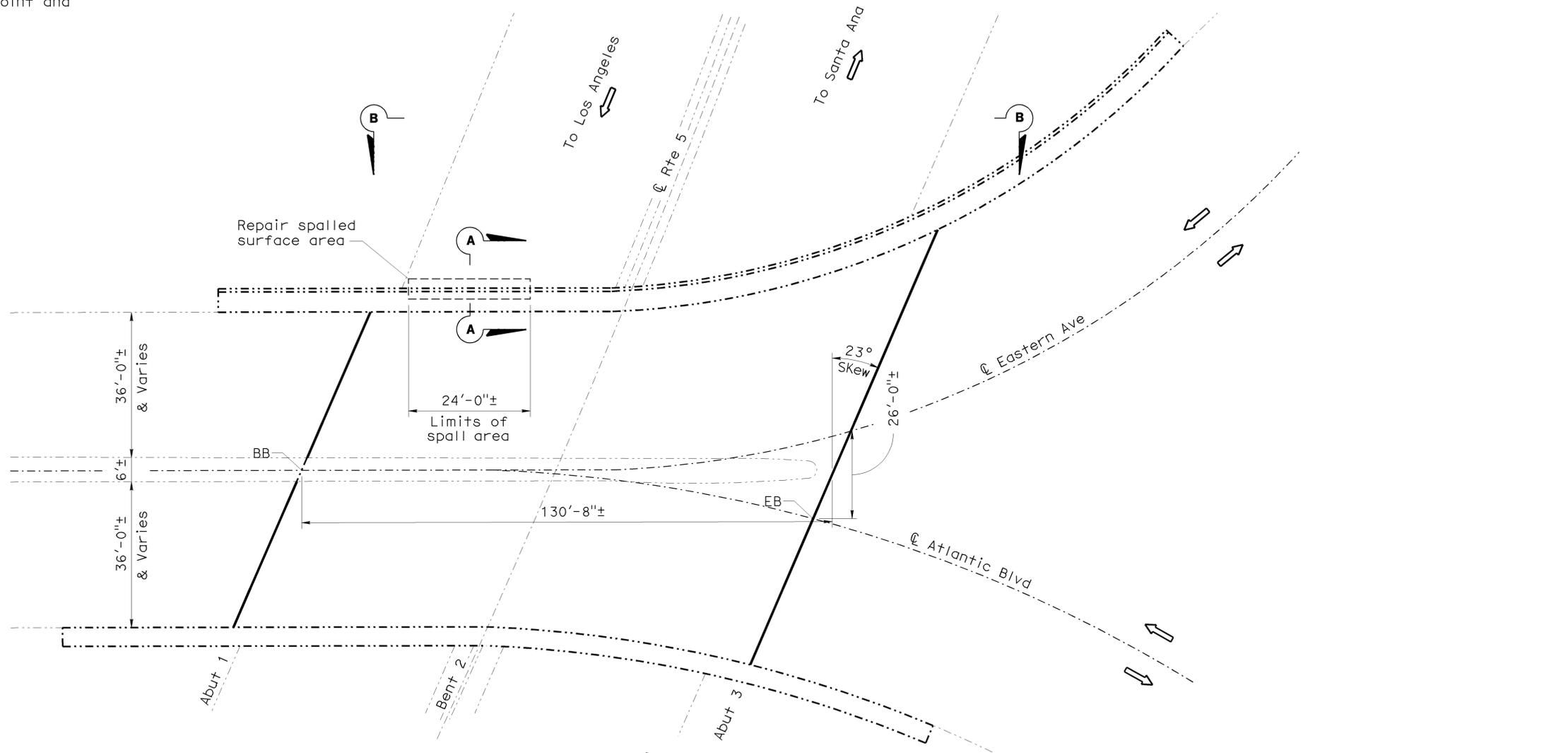
1. For spalled surface repair details, see "MISCELLANEOUS DETAILS NO. 3" sheet.



SECTION A-A

EXTERIOR GIRDER SPALL REPAIR

No Scale



ATLANTIC BOULEVARD OC

Br No. 53-0041, Rte 5, PM 12.80
No Scale

ATLANTIC BOULEVARD OC #53-0041

QUANTITIES

REPAIR SPALLED SURFACE AREA	6 SQFT
CLEAN EXPANSION JOINT	185 LF
JOINT SEAL (MR 1/2 ")	185 LF



VIEW B-B

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.

TONY D. BRAKE
DESIGN ENGINEER

DESIGN	BY Edward Nahm	CHECKED Tony Brake	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Clayton Tom	CHECKED Edward Nahm	LAYOUT	BY Clayton Tom
QUANTITIES	BY Edward Nahm	CHECKED Tony Brake	SPECIFICATIONS	BY Steven Seifert
				CHECKED Edward Nahm
				PLANS AND SPECS COMPARED Steven Seifert

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.
Various
POST MILE
Varies

**ROUTES 5,10 BRIDGES
GENERAL PLAN NO. 3**

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



UNIT: 3489
PROJECT NUMBER & PHASE: 0712000049 1 CONTRACT NO.: 07-1W3901

DISREGARD PRINTS BEARING EARLIER REVISION DATES

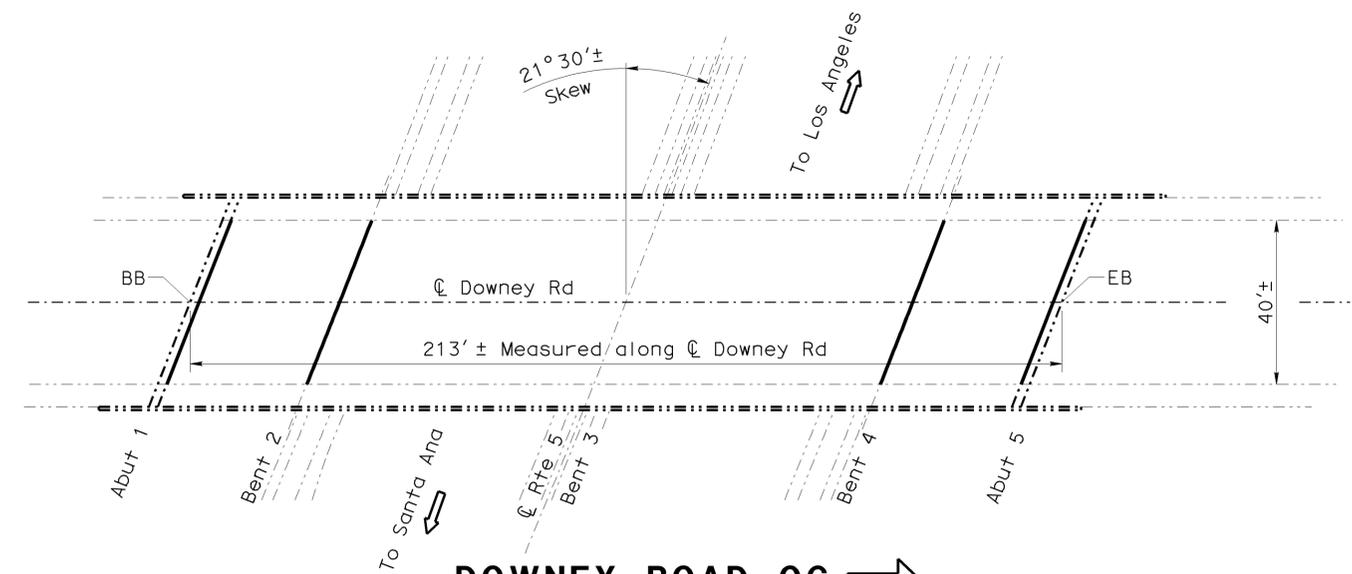
REVISION DATES	SHEET	OF
08-17-12 10-17-12 01-07-13 01-16-13	03	21

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,10	9.7/18.4 18.3/18.5	23	40

01-16-13
 REGISTERED CIVIL ENGINEER DATE
 3-4-13
 PLANS APPROVAL DATE
 No. C66900
 Exp. 09/30/14
 CIVIL
 STATE OF CALIFORNIA
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

LEGEND:

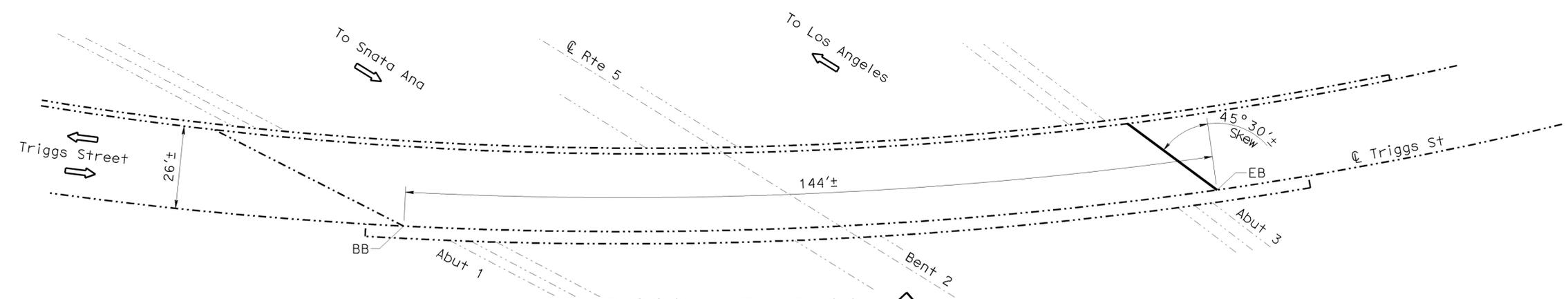
- - - - - Indicates existing.
- ⇒ Indicates direction of traffic.
- Indicates location of clean expansion joint and placement of new joint seal.



DOWNEY ROAD OC
 Br No. 53-0784, Rte 5, PM 14.25
 Scale 1"=20'

DOWNEY ROAD OC #53-0784
 QUANTITIES

CLEAN EXPANSION JOINT	172 LF
JOINT SEAL (MR 1/2")	172 LF



TRIGGS AVENUE OC
 Br No. 53-0025, Rte 5, PM 12.92
 No Scale

TRIGGS AVENUE OC #53-0025
 QUANTITIES

CLEAN EXPANSION JOINT	37 LF
JOINT SEAL (MR 1/2")	37 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.

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Edward Nahm	CHECKED Tony Brake	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
	DETAILS	BY Clayton Tom	CHECKED Edward Nahm	LAYOUT	BY Clayton Tom
	QUANTITIES	BY Edward Nahm	CHECKED Tony Brake	SPECIFICATIONS	BY Steven Seifert

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	Various
POST MILE	Varies

**ROUTES 5,10 BRIDGES
 GENERAL PLAN NO. 4**

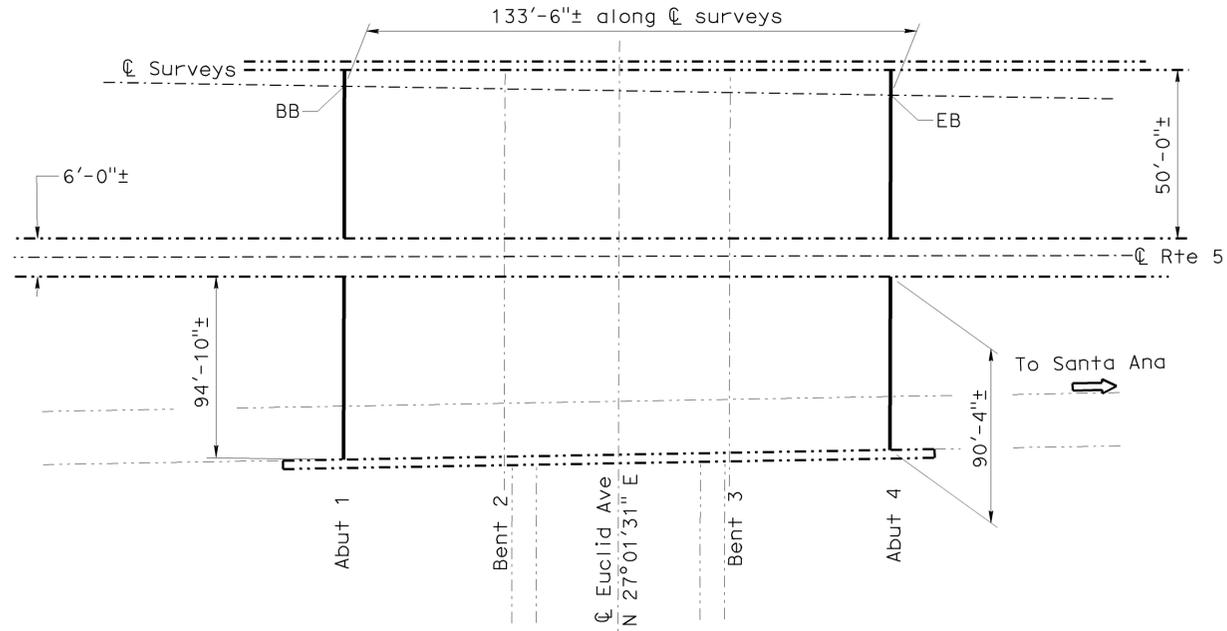


USERNAME => s117283 DATE PLOTTED => 17-JAN-2013 TIME PLOTTED => 10:25
 FILE => 07-1W3901-a-gp04.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,10	9.7/18.4 18.3/18.5	24	40
			01-16-13	DATE	
			3-4-13	PLANS APPROVAL DATE	
			REGISTERED CIVIL ENGINEER No. C66900 Exp. 09/30/14 CIVIL STATE OF CALIFORNIA		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					

LEGEND:

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

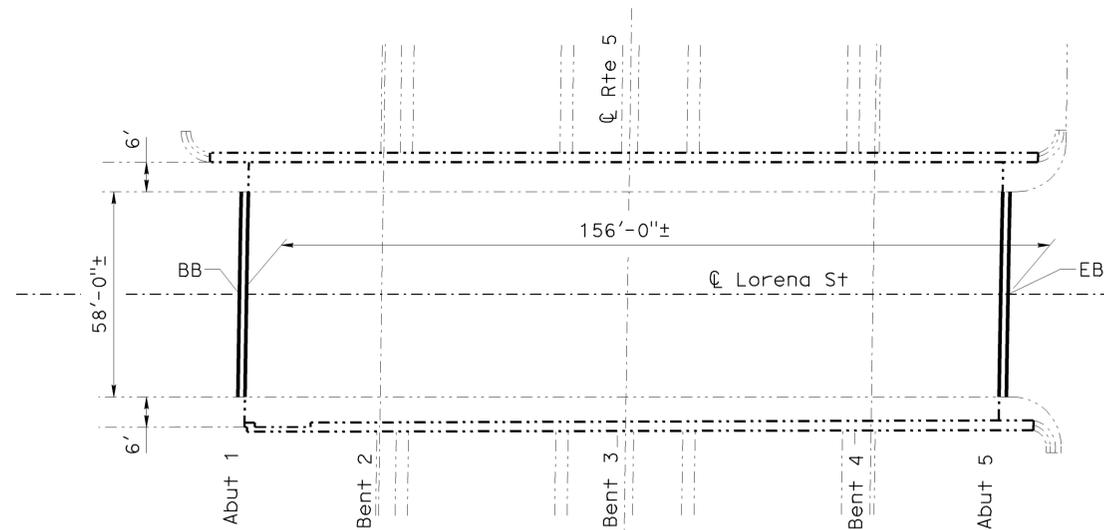


EUCLID AVENUE UC

Br No. 53-0601, Rte 5, PM 16.05
Scale 1"=20'

EUCLID AVENUE UC #53-0601
QUANTITIES

CLEAN EXPANSION JOINT 286 LF
JOINT SEAL (MR 1/2") 286 LF



LORENA STREET OC

Br No. 53-0602, Rte 5, PM 15.65
Scale 1"=20'

LORENA STREET OC #53-0602
QUANTITIES

CLEAN EXPANSION JOINT 232 LF
JOINT SEAL (MR 1/2") 232 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.

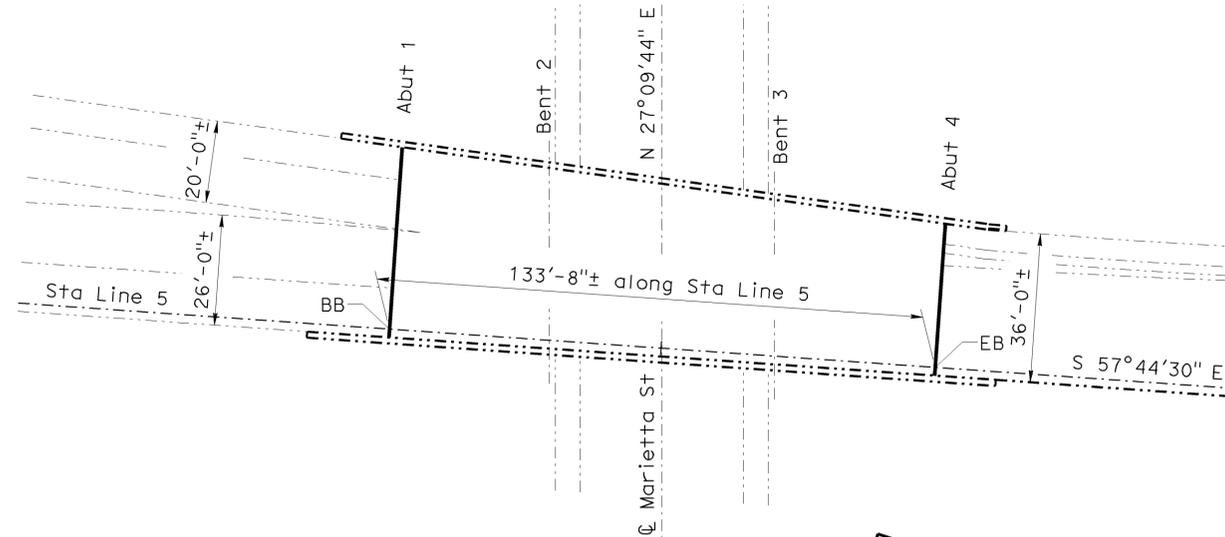
TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Edward Nahm	CHECKED Tony Brake	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	Various	ROUTES 5,10 BRIDGES GENERAL PLAN NO. 5			
	DETAILS	BY Clayton Tom	CHECKED Edward Nahm	LAYOUT	BY Clayton Tom			CHECKED Edward Nahm	POST MILE		Varies		
	QUANTITIES	BY Edward Nahm	CHECKED Tony Brake	SPECIFICATIONS	BY Steven Seifert			CHECKED Steven Seifert	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: 0712000049 1	CONTRACT NO.: 07-1W3901	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 05	OF 21

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,10	9.7/18.4 18.3/18.5	25	40

01-16-13
 REGISTERED CIVIL ENGINEER DATE
 3-4-13
 PLANS APPROVAL DATE
 No. C66900
 Exp. 09/30/14
 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 clean expansion joint and placement of new joint seal.
- ▨ Indicates limits of remove existing approach and place new Structure Approach Type R(30D). For details see "STRUCTURE APPROACH TYPE R(30D)" sheet.
- ▤ Indicates repair spalled surface area.
- ⊖ Indicates limit of placement of new joint seal.
- * Indicates limit of paving notch extension.



MARIETTA STREET UC

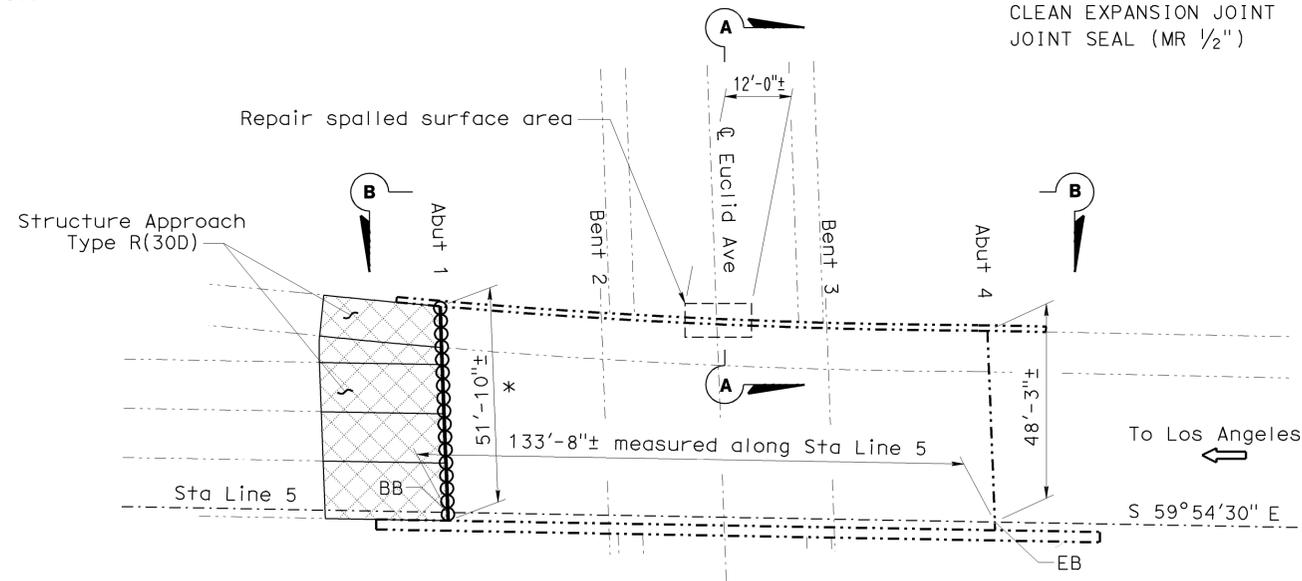
Br No. 53-1387R, Rte 5, PM 16.29
Scale 1"=20'

MARIETTA STREET UC #53-1387R
QUANTITIES

CLEAN EXPANSION JOINT 82 LF
JOINT SEAL (MR 1/2") 82 LF

NOTE:

1. For spalled surface repair details, see "MISCELLANEOUS DETAILS NO. 3" sheet.

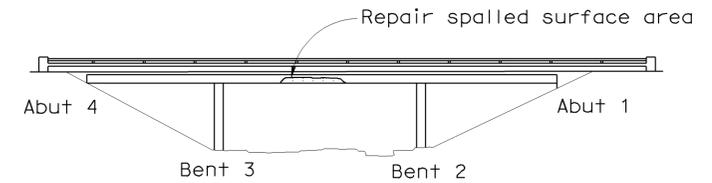


EUCLID AVENUE UC

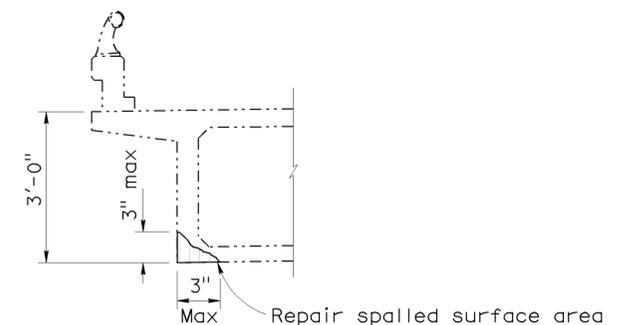
Br No. 53-1364R, Rte 5, PM 16.05
Scale 1"=20'

EUCLID AVENUE UC #53-1364R
QUANTITIES

REPAIR SPALLED SURFACE AREA 3 SQFT
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R) 69 CY
PAVING NOTCH EXTENSION 39 CF
JOINT SEAL (MR 1/2") 52 LF



VIEW B-B



SECTION A-A

EXTERIOR GIRDER SPALL REPAIR

No Scale

NOTE:
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TONY D. BRAKE
DESIGN ENGINEER

DESIGN	BY Edward Nahm	CHECKED Tony Brake	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Clayton Tom	CHECKED Edward Nahm	LAYOUT	BY Clayton Tom
QUANTITIES	BY Edward Nahm	CHECKED Tony Brake	SPECIFICATIONS	BY Steven Seifert

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTES 5,10 BRIDGES
GENERAL PLAN NO. 6

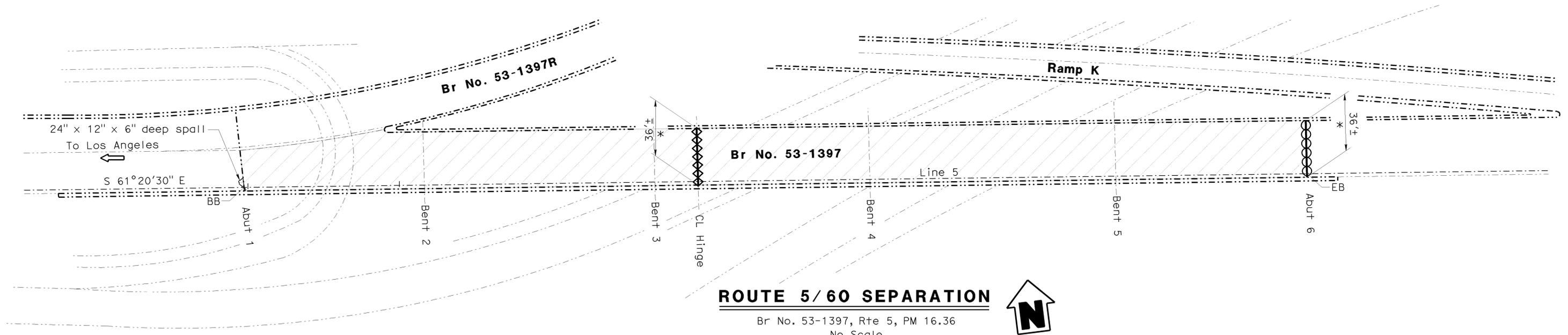
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,10	9.7/18.4 18.3/18.5	26	40
			01-16-13		
			REGISTERED CIVIL ENGINEER	DATE	
			3-4-13	PLANS APPROVAL DATE	
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					

LEGEND:

- Indicates existing.
- ⇒ Indicates direction of traffic.
- Indicates limits of prepare concrete bridge deck surface and treat existing bridge deck with high molecular weight methacrylate.
- Indicates location of existing expansion joint reconstruction and placement with new joint seal. See "AT HINGE" of "JOINT SEAL REPLACEMENT DETAIL" sheet.
- Indicates location of existing expansion joint reconstruction removal and placement with new joint seal. See "AT ABUTMENT" of "JOINT SEAL REPLACEMENT DETAIL" sheet.
- Indicates removal of unsound concrete and place rapid setting concrete (patch).

NOTE:

1. For deck damage repair detail see "MISCELLANEOUS DETAILS NO. 3" sheet.



ROUTE 5/60 SEPARATION

Br No. 53-1397, Rte 5, PM 16.36
No Scale

* Measured from face to face of concrete barrier

**ROUTE 5/60 SEPARATION #53-1397
QUANTITIES**

RAPID SETTING CONCRETE (PATCH)	1 CF
REMOVE UNSOUND CONCRETE	1 CF
BRIDGE REMOVAL, LOCATION A	LUMP SUM
STRUCTURAL CONCRETE, BRIDGE	2 CY
DRILL AND BOND DOWEL	88 LF
JOINT SEAL (MR 1/2")	51 LF
JOINT SEAL (MR 1 1/2")	72 LF
BAR REINFORCING STEEL (BRIDGE)	246 LB

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.

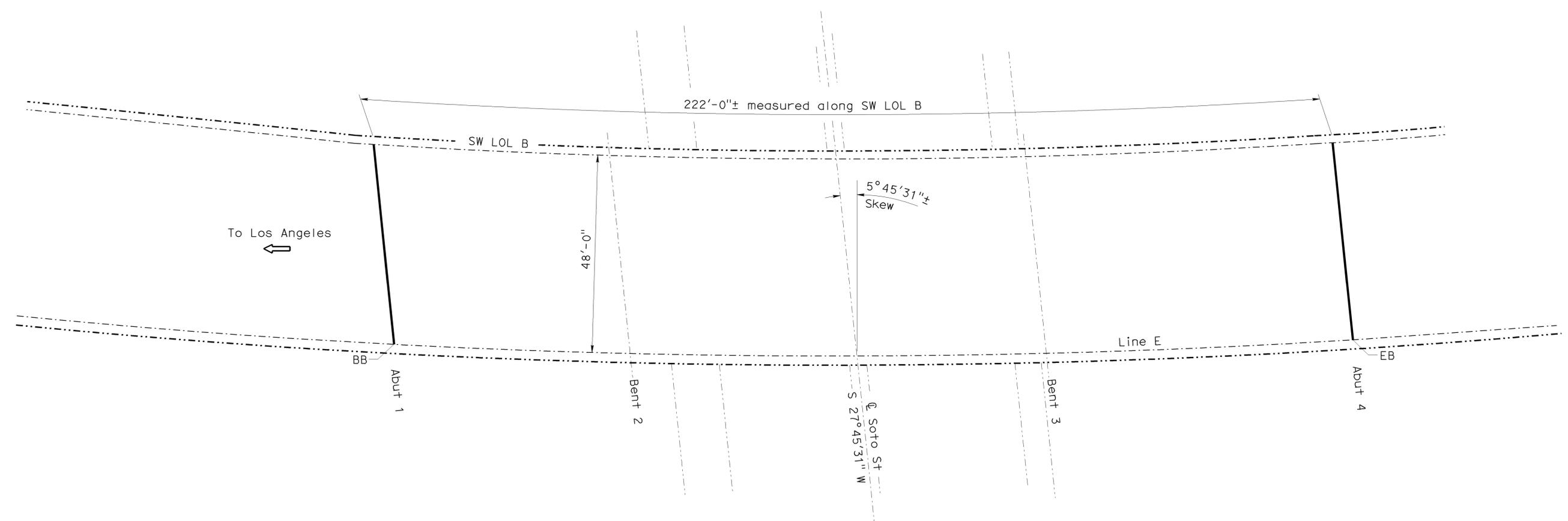
 TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Edward Nahm	CHECKED Tony Brake	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	ROUTES 5,10 BRIDGES GENERAL PLAN NO. 7				
	DETAILS	BY Clayton Tom	CHECKED Edward Nahm	LAYOUT	BY Clayton Tom		CHECKED Edward Nahm		Various			
	QUANTITIES	BY Edward Nahm	CHECKED Tony Brake	SPECIFICATIONS	BY Steven Seifert		CHECKED Steven Seifert		Varies			
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3489 PROJECT NUMBER & PHASE: 0712000049 1	CONTRACT NO.: 07-1W3901	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 07	OF 21

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,10	9.7/18.4 18.3/18.5	27	40

 01-16-13
 REGISTERED CIVIL ENGINEER DATE
 3-4-13
 PLANS APPROVAL DATE
 No. C66900
 Exp. 09/30/14
 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:

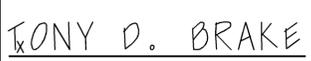
- Indicates existing.
- ⇒ Indicates direction of traffic.
- Indicates location of clean expansion joint and placement of new joint seal.



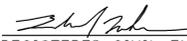
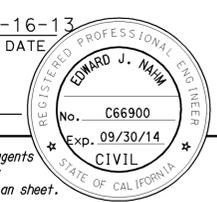
SOTO STREET UC
 Br No. 53-1390R, Rte 5, PM 16.59
 No Scale
 SOTO STREET UC #53-1390R
 QUANTITIES

CLEAN EXPANSION JOINT 98 LF
 JOINT SEAL (MR 1/2") 98 LF

NOTE:
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 DESIGN ENGINEER	DESIGN	BY Edward Nahm	CHECKED Tony Brake	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	ROUTES 5,10 BRIDGES GENERAL PLAN NO. 8					
	DETAILS	BY Clayton Tom	CHECKED Edward Nahm	LAYOUT	BY Clayton Tom		CHECKED Edward Nahm		POST MILE				
	QUANTITIES	BY Edward Nahm	CHECKED Tony Brake	SPECIFICATIONS	BY Steven Seifert		CHECKED Steven Seifert		Varies				
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3489	PROJECT NUMBER & PHASE: 0712000049 1	CONTRACT NO.: 07-1W3901	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 08	OF 21

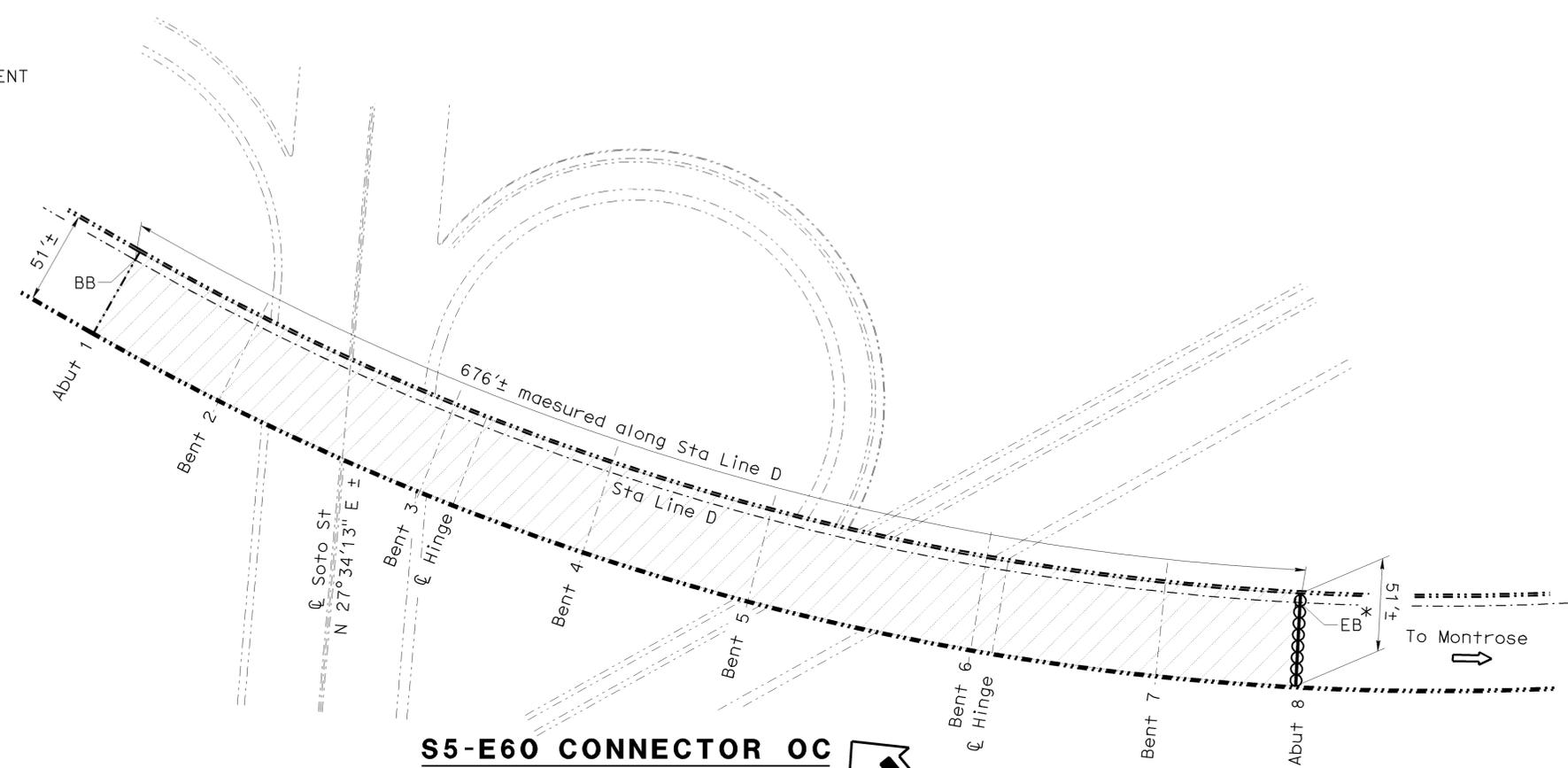
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,10	9.7/18.4 18.3/18.5	28	40

 01-16-13
 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 electronic copies of this plan sheet.

LEGEND:

- Indicates existing.
- Indicates direction of traffic.
-  Indicates limits of clean and treat existing bridge bridge deck surface with high molecular weight methacrylate.
-  Indicates location of existing expansion joint reconstruction and placement with new joint seal. See "AT ABUTMENT" of "JOINT SEAL REPLACEMENT DETAIL" sheet.



S5-E60 CONNECTOR OC
 Br No. 53-1386F, Rte 5, PM 16.59
 Scale 1"=40'

* Measured from face to face of concrete barrier

S5-E60 CONNECTOR OC #53-1386F
 QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	34,476 SQFT
TREAT BRIDGE DECK	34,476 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	431 GAL
BRIDGE REMOVAL, LOCATION B	LUMP SUM
STRUCTURAL CONCRETE, BRIDGE	2 CY
DRILL AND BOND DOWEL	53 LF
JOINT SEAL (MR 1/2")	51 LF
JOINT SEAL (MR 1 1/2")	51 LF
BAR REINFORCING STEEL (BRIDGE)	169 LB

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.

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Edward Nahm	CHECKED Tony Brake	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	ROUTES 5,10 BRIDGES GENERAL PLAN NO. 9							
	DETAILS	BY Clayton Tom	CHECKED Edward Nahm	LAYOUT	BY Clayton Tom		CHECKED Edward Nahm		Various						
	QUANTITIES	BY Edward Nahm	CHECKED Tony Brake	SPECIFICATIONS	BY Steven Seifert		CHECKED Steven Seifert		Varies						
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3489 PROJECT NUMBER & PHASE: 0712000049 1 CONTRACT NO.: 07-1W3901	DISREGARD PRINTS BEARING EARLIER REVISION DATES	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>REVISION DATES</th> <th>SHEET</th> <th>OF</th> </tr> <tr> <td>08-11-12 10-11-12 01-07-13 01-16-13</td> <td>09</td> <td>21</td> </tr> </table>	REVISION DATES	SHEET	OF	08-11-12 10-11-12 01-07-13 01-16-13	09	21
REVISION DATES	SHEET	OF													
08-11-12 10-11-12 01-07-13 01-16-13	09	21													

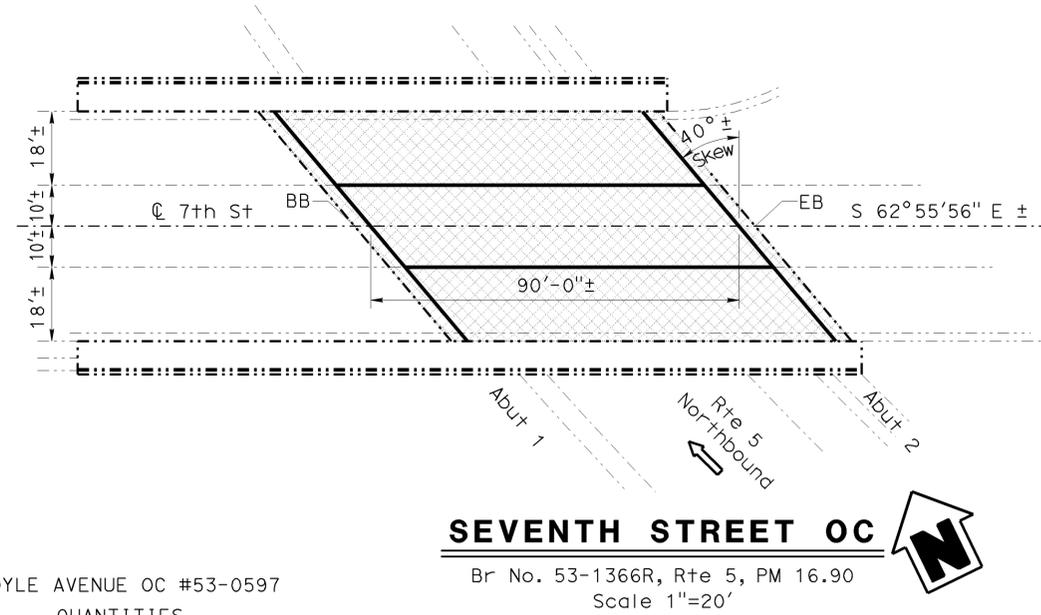
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,10	9.7/18.4 18.3/18.5	29	40
			01-16-13		
			REGISTERED CIVIL ENGINEER	DATE	
			3-4-13	PLANS APPROVAL DATE	
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					

LEGEND:

- Indicates existing.
- Indicates direction of traffic.
- Indicates limits of prepare concrete bridge deck surface and treat existing bridge deck with high molecular weight methacrylate.
- Indicates location of clean expansion joint and placement of new joint seal.
- Indicates limits of prepare concrete deck surface, furnish and place new 3" thick min and varies polyester concrete overlay. Prior to placing new polyester concrete overlay, remove unsound concrete and patch with rapid setting concrete. Polyester concrete shall be placed in one lift. Survey grades of the existing AC overlay and bridge deck surface shall be provided prior to placing the polyester concrete overlay.
- Indicates limits of removal of existing 3"± thick asphalt concrete overlay and removal of asphalt membrane waterproofing.

NOTE:

- For "DECK REPAIR DETAIL-OVERLAY" see "MISCELLANEOUS DETAILS NO. 3" sheet.



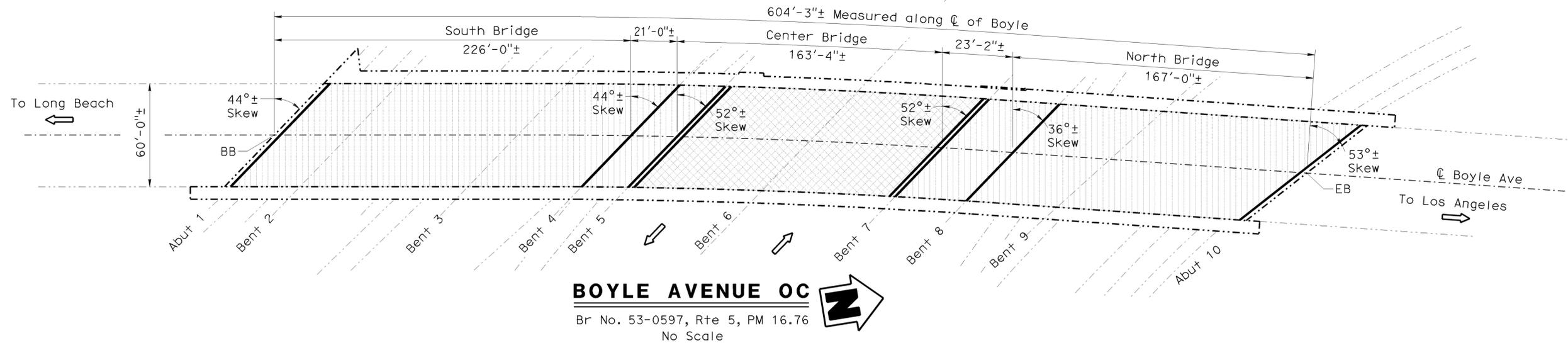
BOYLE AVENUE OC #53-0597
QUANTITIES

SEVENTH STREET OC
Br No. 53-1366R, Rte 5, PM 16.90
Scale 1"=20'

SEVENTH STREET OC #53-1366R
QUANTITIES

	LUMP SUM
PUBLIC SAFETY PLAN	
RAPID SETTING CONCRETE (PATCH)	25 CF
REMOVE ASPHALT CONCRETE SURFACING	9,800 SQFT
REMOVE UNSOUND CONCRETE	25 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	36,030 SQFT
FURNISH POLYESTER CONCRETE OVERLAY	2,450 CF
PLACE POLYESTER CONCRETE OVERLAY	9,800 SQFT
TREAT BRIDGE DECK	26,230 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	328 GAL
CLEAN EXPANSION JOINT	733 LF
JOINT SEAL (MR 1/2")	733 LF

	LUMP SUM
PUBLIC SAFETY PLAN	
RAPID SETTING CONCRETE (PATCH)	13 CF
REPAIR SPALLED SURFACE AREA	5,040 SQFT
REMOVE UNSOUND CONCRETE	13 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	5,040 SQFT
FURNISH POLYESTER CONCRETE OVERLAY	1,260 CF
PLACE POLYESTER CONCRETE OVERLAY	5,040 SQFT
CLEAN EXPANSION JOINT	327 LF
JOINT SEAL (MR 1/2")	146 LF
JOINT SEAL (TYPE AL)	180 LF



BOYLE AVENUE OC
Br No. 53-0597, Rte 5, PM 16.76
No Scale

NOTE:
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TONY D. BRAKE
DESIGN ENGINEER

DESIGN	BY Edward Nahm	CHECKED Tony Brake	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Clayton Tom	CHECKED Edward Nahm	LAYOUT	BY Clayton Tom
QUANTITIES	BY Edward Nahm	CHECKED Tony Brake	SPECIFICATIONS	BY Steven Seifert

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTES 5,10 BRIDGES
GENERAL PLAN NO. 10

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,10	9.7/18.4 18.3/18.5	30	40

01-16-13
REGISTERED CIVIL ENGINEER DATE

3-4-13
PLANS APPROVAL DATE

EDWARD J. NAHM
No. C66900
Exp. 09/30/14
CIVIL
STATE OF CALIFORNIA

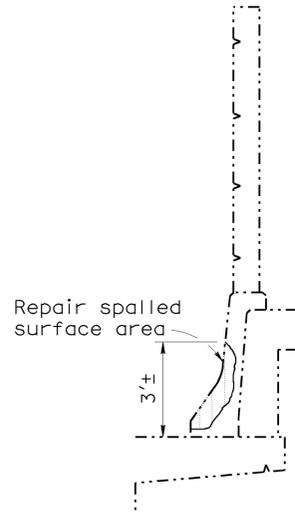
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

LEGEND:

- Indicates existing.
- ⇒ Indicates direction of traffic.
- Indicates location of sawcut concrete, clean expansion joint and placement of new joint seal.
- ▨ Indicates removal of unsound concrete and place rapid setting concrete (patch).
- ▤ Indicates repair spalled surface area.

NOTES:

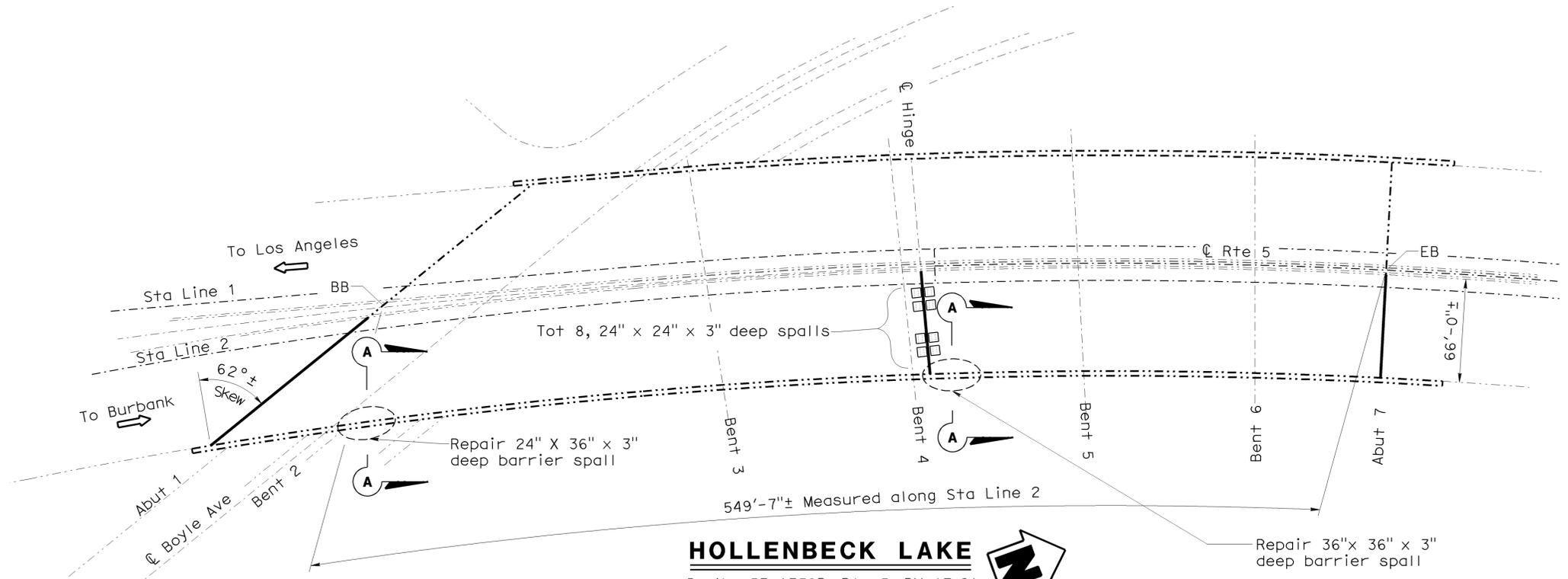
- For deck damage repair detail, see "MISCELLANEOUS DETAILS NO. 3" sheet.
- For spalled surface repair detail, see "MISCELLANEOUS DETAILS NO. 3" sheet.



SECTION A-A

BARRIER RAIL REPAIR

NO SCALE



HOLLENBECK LAKE

Br No. 53-1359R, Rte 5, PM 17.21
No Scale

HOLLENBECK LAKE #53-1359R

QUANTITIES

RAPID SETTING CONCRETE (PATCH)	8 CF
REPAIR SPALLED SURFACE AREA	15 SQFT
REMOVE UNSOUND CONCRETE	8 CF
CLEAN EXPANSION JOINT	273 LF
JOINT SEAL (MR 1 1/2")	273 LF

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TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Edward Nahm	CHECKED Tony Brake	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
	DETAILS	BY Clayton Tom	CHECKED Edward Nahm	LAYOUT	BY Clayton Tom
	QUANTITIES	BY Edward Nahm	CHECKED Tony Brake	SPECIFICATIONS	BY Steven Seifert

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

**ROUTES 5,10 BRIDGES
GENERAL PLAN NO. 11**

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



UNIT: 3489
PROJECT NUMBER & PHASE: 0712000049 1 CONTRACT NO.: 07-1W3901

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
08-17-12 10-27-12 01-07-13 01-16-13	11	21

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,10	9.7/18.4 18.3/18.5	31	40

01-16-13
REGISTERED CIVIL ENGINEER DATE

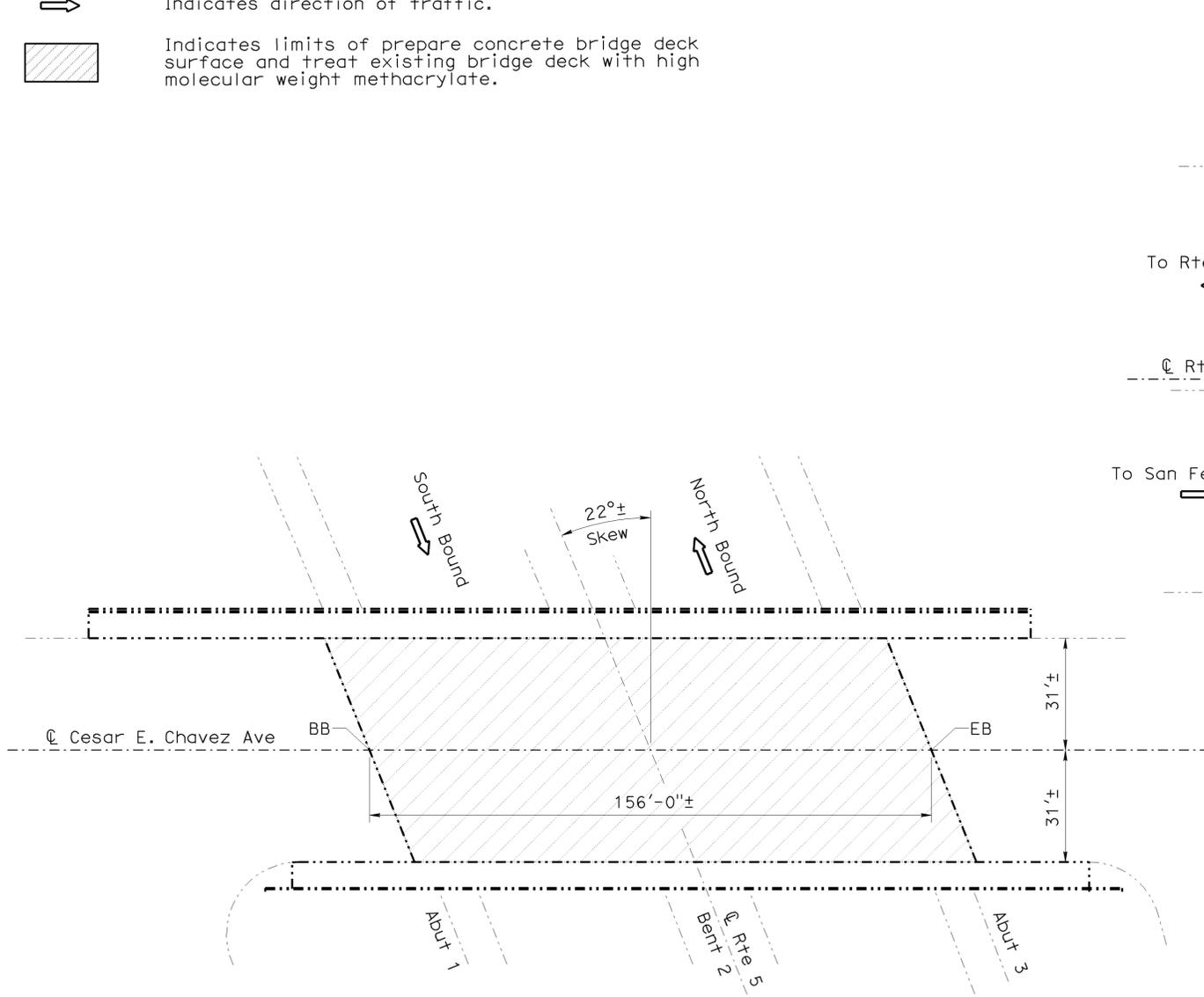
3-4-13
PLANS APPROVAL DATE

EDWARD J. NAHM
No. C66900
Exp. 09/30/14
CIVIL
STATE OF CALIFORNIA

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

LEGEND:

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



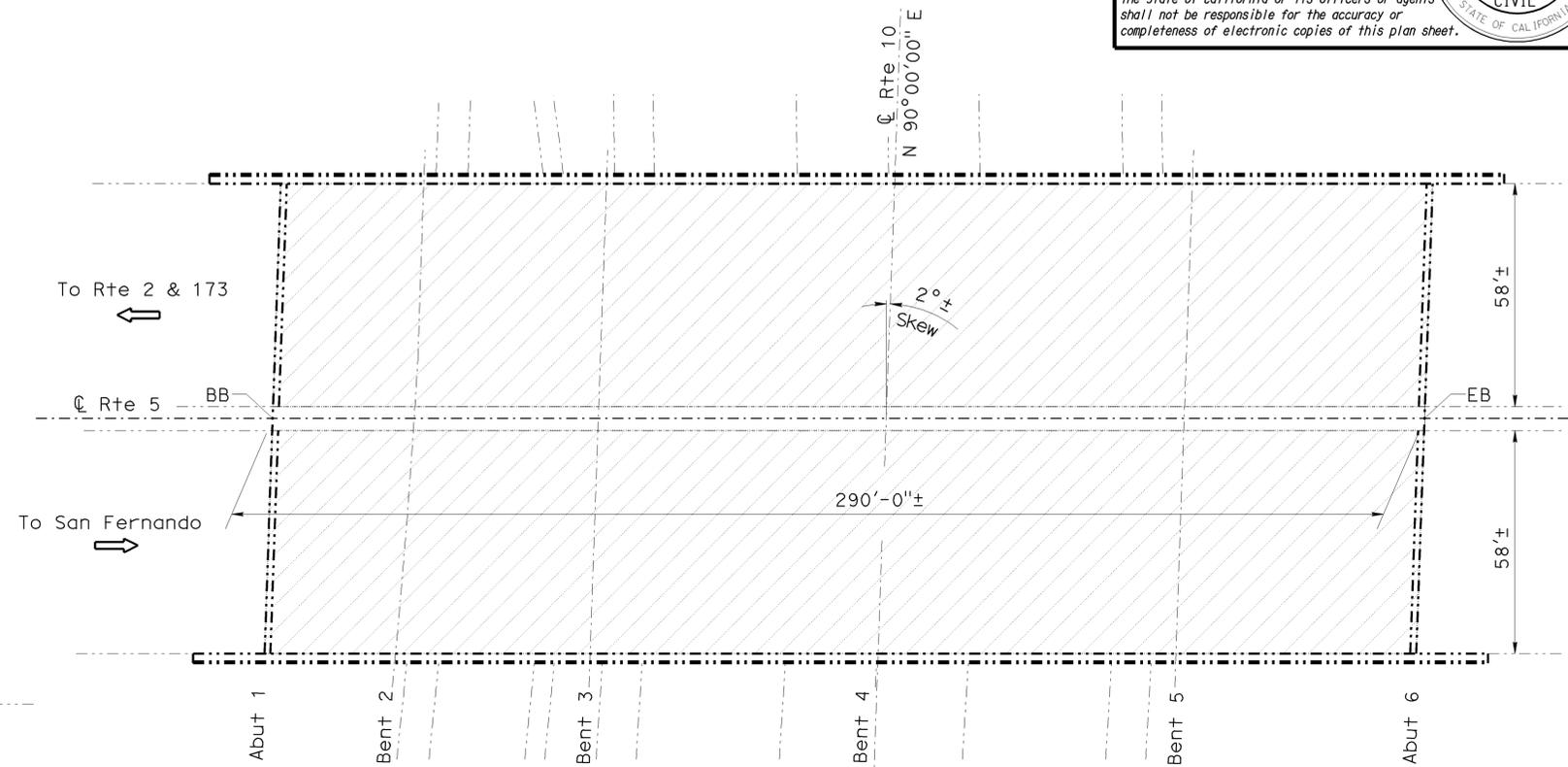
CESAR E. CHAVEZ AVENUE OC

Br No. 53-1314, Rte 5, PM 18.06
Scale 1"=20'

CEASAR E. CHAVEZ AVENUE OC #53-1314
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	9,672 SQFT
TREAT BRIDGE DECK	9,672 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	121 GAL

NOTE:
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ROUTE 5/10 SEPARATION

Br No. 53-1329, Rte 5, PM 18.42
Scale 1"=20'

ROUTE 5/10 SEPARATION #53-1329
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	33,640 SQFT
TREAT BRIDGE DECK	33,640 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	421 GAL

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Edward Nahm	CHECKED Tony Brake	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
	DETAILS	BY Clayton Tom	CHECKED Edward Nahm	LAYOUT	BY Clayton Tom
	QUANTITIES	BY Edward Nahm	CHECKED Tony Brake	SPECIFICATIONS	BY Steven Seifert

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

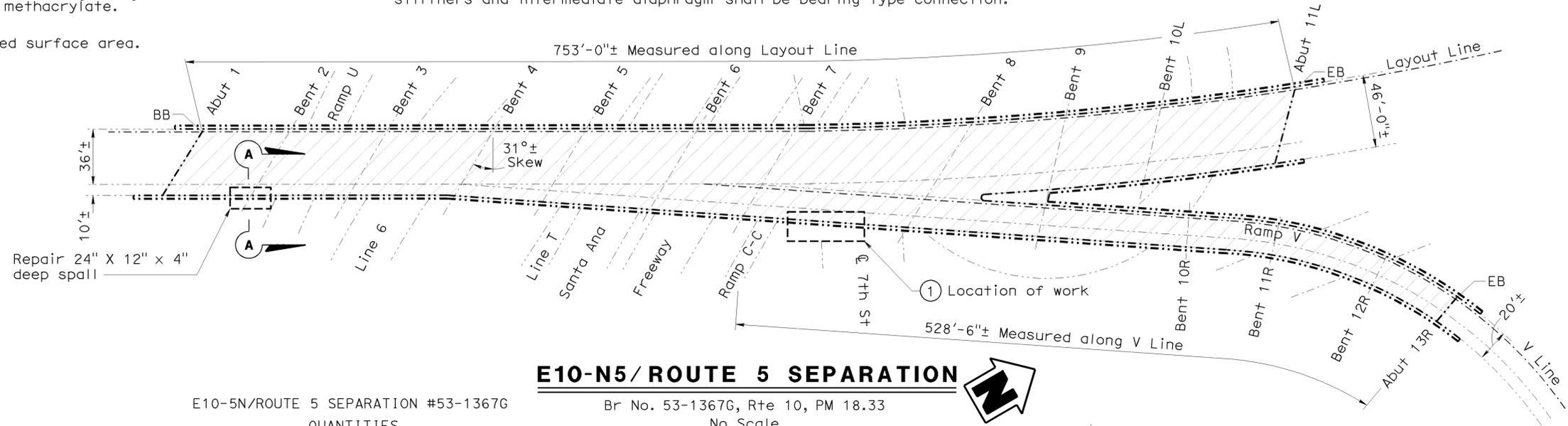
ROUTES 5,10 BRIDGES GENERAL PLAN NO. 12	
REVISION DATES	SHEET 12 OF 21

LEGEND:

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

NOTES:

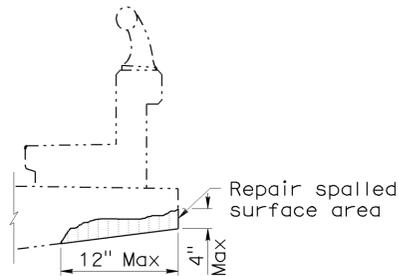
1. For spalled surface repair details, see "MISCELLANEOUS DETAILS NO. 3" sheet.
2. ① Replace 3/4" ∅ HS tensile bolts, nut, flat washer and one lock washer at intermediate diaphragms (A) and (B). See section B-B for typical detail. All bolted connections between stiffeners and intermediate diaphragm shall be bearing type connection.



E10-N5/ROUTE 5 SEPARATION

E10-5N/ROUTE 5 SEPARATION #53-1367G
 QUANTITIES
 Br No. 53-1367G, Rte 10, PM 18.33
 No Scale

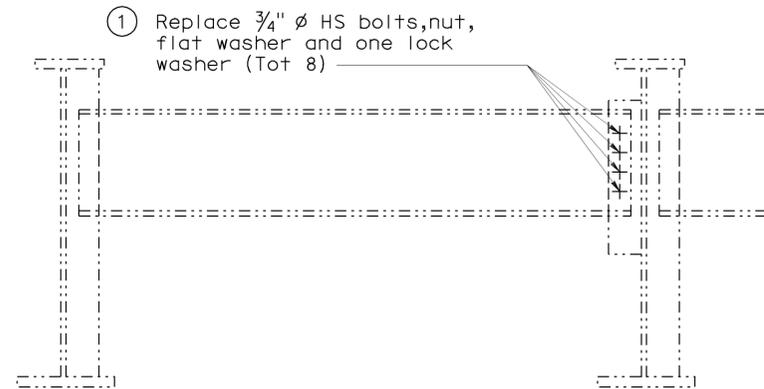
PUBLIC SAFETY PLAN	LUMP SUM
REPAIR SPALLED SURFACE AREA	2 SQFT
PREPARE CONCRETE BRIDGE DECK SURFACE	45,208 SQFT
TREAT BRIDGE DECK	45,208 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	565 GAL
MISCELLANEOUS METAL (BRIDGE)	4 LB



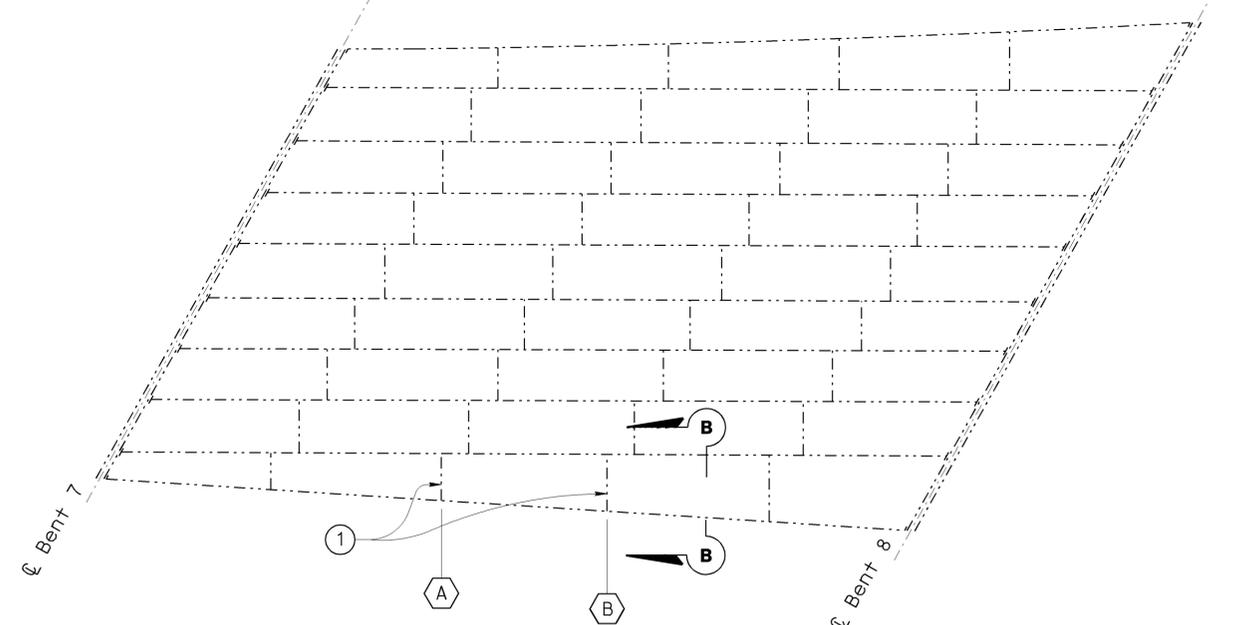
SECTION A-A

OVERHANG SOFFIT SPALL REPAIR

No Scale



SECTION B-B



GIRDER LAYOUT AT SPAN 7

INTERMEDIATE DIAPHRAGM BOLT REPAIR

No Scale

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TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Edward Nahm	CHECKED Tony Brake	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
	DETAILS	BY Clayton Tom	CHECKED Edward Nahm	LAYOUT	BY Clayton Tom
	QUANTITIES	BY Edward Nahm	CHECKED Tony Brake	SPECIFICATIONS	BY Steven Seifert

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO. Various
PROJECT NUMBER & PHASE: 0712000049 1		POST MILE Varies

CONTRACT NO.: 07-1W3901		DISREGARD PRINTS BEARING EARLIER REVISION DATES	
UNIT: 3489		REVISION DATES	SHEET 13 OF 21

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,10	9.7/18.4 18.3/18.5	33	40
			01-16-13		
			REGISTERED CIVIL ENGINEER		
			DATE		
			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:

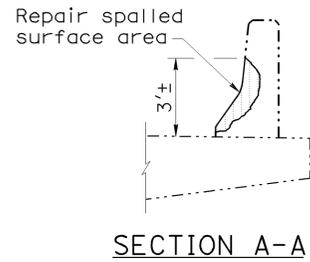
- Indicates existing.
- Indicates direction of traffic.
- Indicates limits of prepare concrete bridge deck surface and treat existing bridge deck with high molecular weight methacrylate.
- Indicates location of clean expansion joint and placement of new joint seal.
- Indicates repair spalled surface area.

NOTE:

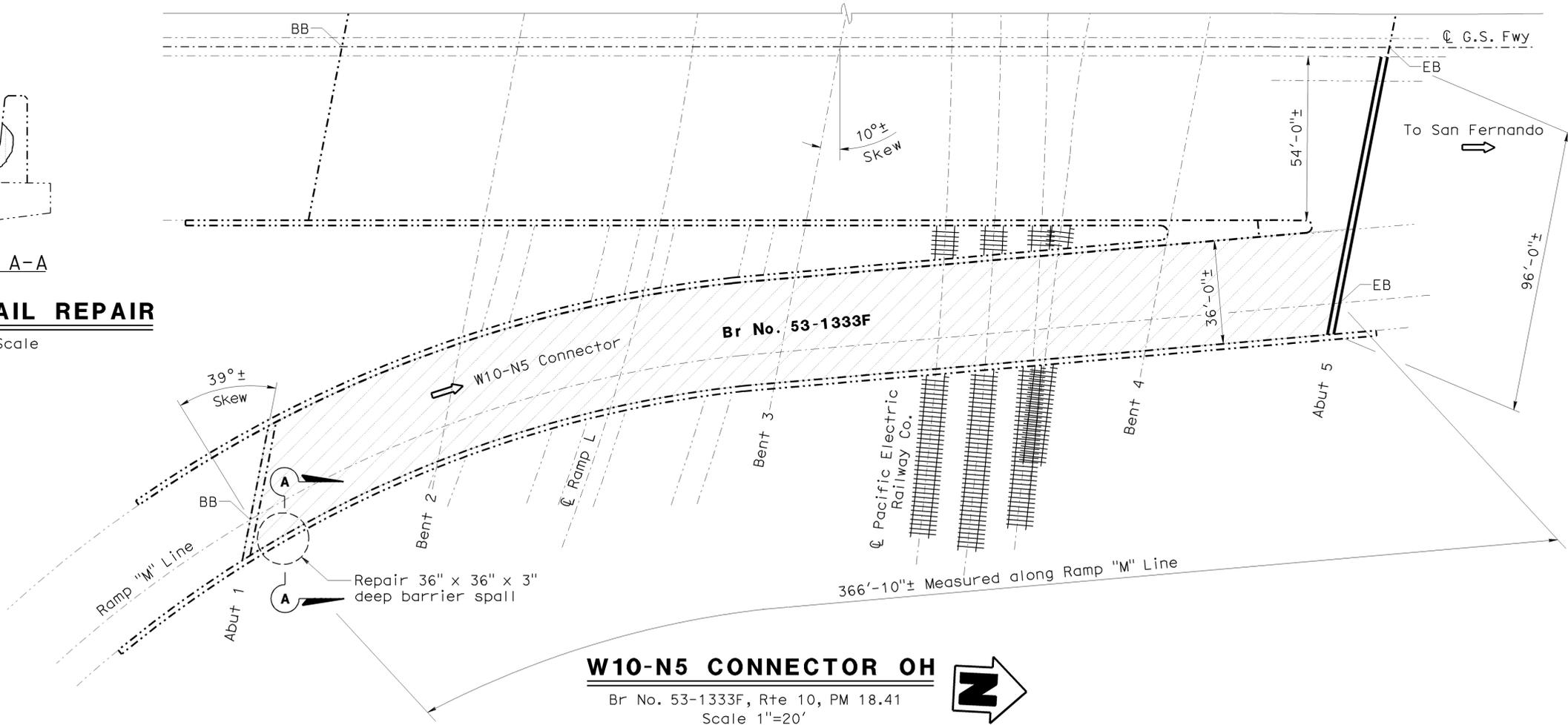
1. For spalled surface repair details, see "MISCELLANEOUS DETAILS NO. 3" sheet.

W10-N5 CONNECTOR OH #53-1333F
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	13,206 SQFT
TREAT BRIDGE DECK	13,206 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	165 GAL
CLEAN EXPANSION JOINT	192 LF
JOINT SEAL (MR 1/2")	96 LF
JOINT SEAL (MR 1 1/2")	96 LF



BARRIER RAIL REPAIR
No Scale



W10-N5 CONNECTOR OH
Br No. 53-1333F, Rte 10, PM 18.41
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.

 TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Edward Nahm	CHECKED Tony Brake	LOAD FACTOR DESIGN	BY Clayton Tom	CHECKED Edward Nahm	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTES 5,10 BRIDGES GENERAL PLAN NO. 14	
	DETAILS	BY Clayton Tom	CHECKED Edward Nahm	LAYOUT	BY Clayton Tom	CHECKED Edward Nahm			POST MILE		
	QUANTITIES	BY Edward Nahm	CHECKED Tony Brake	SPECIFICATIONS	BY Steven Seifert	CHECKED Steven Seifert			Varies		
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)											
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS								UNIT: 3489 PROJECT NUMBER & PHASE: 0712000049 1 CONTRACT NO.: 07-1W3901	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 08-11-12 10-27-12 01-07-13 01-16-13	SHEET 14 OF 21

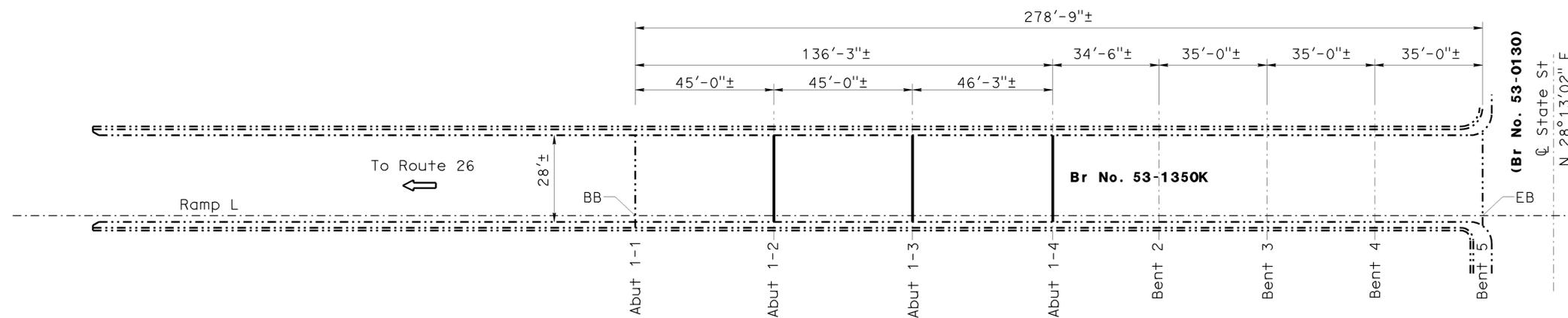
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,10	9.7/18.4 18.3/18.5	34	40

01-16-13
 REGISTERED CIVIL ENGINEER DATE
 3-4-13
 PLANS APPROVAL DATE
 No. C66900
 Exp. 09/30/14
 CIVIL
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LEGEND:

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



STATE STREET OC (RAMP SPUR)

Br No. 53-1350K, Rte 10, PM 18.48
Scale 1"=20'

STATE STREET OC (RAMP SPUR) #53-1350K

QUANTITIES

CLEAN EXPANSION JOINT 84 LF
JOINT SEAL (MR 1/2") 84 LF

NOTE:
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TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Edward Nahm	CHECKED Tony Brake	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.	Various	ROUTES 5,10 BRIDGES GENERAL PLAN NO. 15		
	DETAILS	BY Clayton Tom	CHECKED Edward Nahm	LAYOUT	BY Clayton Tom			CHECKED Edward Nahm	POST MILE		Varies	
	QUANTITIES	BY Edward Nahm	CHECKED Tony Brake	SPECIFICATIONS	BY Steven Seifert			CHECKED PLANS AND SPECS COMPARED Steven Seifert	UNIT: 3489		PROJECT NUMBER & PHASE: 0712000049 1	CONTRACT NO.: 07-1W3901

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

FILE => 07-1W3901-a-gp15.dgn

USERNAME => s117283 DATE PLOTTED => 17-JAN-2013 TIME PLOTTED => 10:21

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,10	9.7/18.4 18.3/18.5	35	40
			01-16-13		
			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 electronic copies of this plan sheet.					

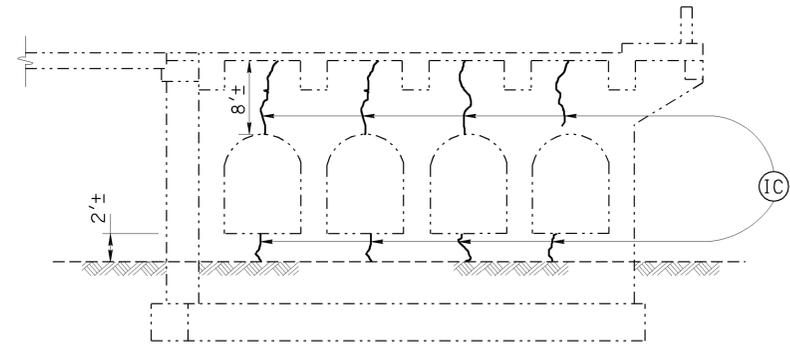


LEGEND:

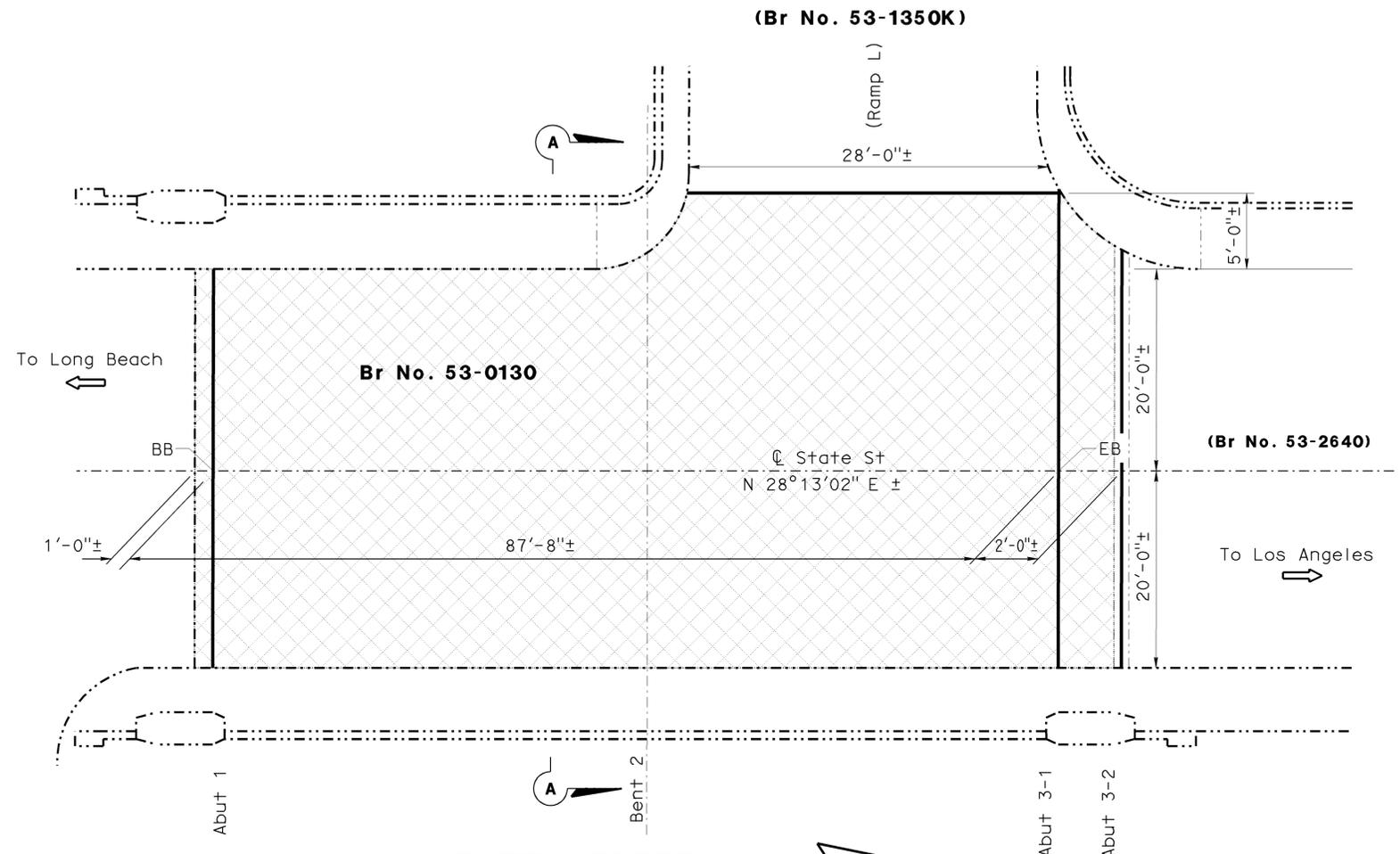
NOTE:

1. For deck repair detail overlay, see "MISCELLANEOUS DETAILS NO. 3" sheet.

- Indicates existing.
- ⇒ Indicates direction of traffic.
- Indicates location of clean expansion joint and placement of new joint seal.
- ⊙ Indicates limits of epoxy crack injection.
- ▨ Indicates limits of prepare concrete deck surface, furnish and place new 3" thick min and varies polyester concrete overlay. Prior to placing new polyester concrete overlay, remove unsound concrete and patch with rapid setting concrete. Polyester concrete shall be placed in one lift. Survey grades of the existing AC overlay and bridge deck surface shall be provided prior to placing the polyester concrete overlay.
- ▨ Indicates limits of removal of existing 3"± thick asphalt concrete overlay and removal of asphalt membrane waterproofing.



SECTION A-A (Bent 2)
NO SCALE



STATE STREET OC

Br No. 53-0130, Rte 10, PM 18.52
No Scale
STATE STREET OC #53-0130
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
INJECT CRACK (EPOXY)	40 LF
RAPID SETTING CONCRETE (PATCH)	10 CF
REMOVE ASPHALT CONCRETE SURFACING	3,782 SQFT
REMOVE UNSOUND CONCRETE	10 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	3,782 SQFT
FURNISH POLYESTER CONCRETE OVERLAY	946 CF
PLACE POLYESTER CONCRETE OVERLAY	3,782 SQFT
CLEAN EXPANSION JOINT	153 LF
JOINT SEAL (MR 1½")	153 LF

NOTE:
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TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Edward Nahm	CHECKED Tony Brake	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
	DETAILS	BY Clayton Tom	CHECKED Edward Nahm	LAYOUT	BY Clayton Tom
	QUANTITIES	BY Edward Nahm	CHECKED Tony Brake	SPECIFICATIONS	BY Steven Seifert

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

ROUTES 5,10 BRIDGES	
GENERAL PLAN NO. 16	
REVISION DATES	SHEET OF
08-11-12 10-11-12 01-07-13 01-16-13	16 21

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,10	9.7/18.4 18.3/18.5	36	40

 01-16-13
 REGISTERED CIVIL ENGINEER DATE

3-4-13
 PLANS APPROVAL DATE

No. C66900
 Exp. 09/30/14
 CIVIL
 STATE OF CALIFORNIA

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JOINT SEAL TABLE							
BRIDGE NAME	BRIDGE NUMBER	JOINT SEAL LOCATION		MINIMUM "MR" (INCHES)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXP JOINT (INCHES)	APPROX JOINT LENGTH (ft)
Slauson Avenue OH	53-0638	Hinge	DJ	1.5	Yes	6	194
		Abut 1	PN	0.5	No	9	53
Atlantic Blvd OC	53-0041	Abut 1	PN	0.5	No	9	78
		Abut 3	PN	0.5	No	9	107
Triggs Avenue OC	53-0025	Abut 3	PN	0.5	No	9	37
Downey Road OC	53-0784	Abut 1	BW	0.5	No	9	43
		Bent 2	DJ	0.5	No	9	43
		Bent 4	DJ	0.5	No	9	43
		Abut 5	BW	0.5	No	9	43
Lorena Street OC	53-0602	Abut 1	PN	0.5	No	9	58
		Abut 1	BW	0.5	No	9	58
		Abut 5	PN	0.5	No	9	58
		Abut 5	BW	0.5	No	9	58
Euclid Avenue UC	53-0601	Abut 1	PN	0.5	No	9	143
		Abut 4	PN	0.5	No	9	143
Euclid Avenue UC	53-1364R	Abut 1	PN	0.5	No	N/A	52
Marietta Street UC	53-1387R	Abut 1	PN	0.5	No	9	46
		Abut 4	PN	0.5	No	9	36
Route 5/60 Sep	53-1397	Hinge 3	DJ	1.5	Yes	N/A	36
		Abut 6	PN	0.5	No	N/A	36
		Abut 6	BW	1.5	Yes	N/A	36
Soto Street UC	53-1390R	Abut 1	PN	0.5	No	9	49
		Abut 4	PN	0.5	No	9	49
Route S5-E60 Conn OC	53-1386F	Abut 8	PN	0.5	No	N/A	51
		Abut 8	BW	1.5	No	N/A	51
Boyle Avenue OC	53-1397	Abut 1	BW	0.5	Yes	6	84
		Bent 4	DJ	0.5	Yes	6	84
		Bent 5	PN	0.5	No	9	98
		Bent 5	BW	0.5	No	9	98
		Bent 7	BW	0.5	No	9	98
		Bent 7	PN	0.5	No	9	98
		Bent 8	DJ	0.5	Yes	6	74
		Abut 10	BW	0.5	Yes	6	99
Seventh Street OC	53-1366R	Abut 1	BW	0.5	Yes	6	73
		Abut 2	BW	0.5	Yes	6	73
		Longitudinal	DJ	Type AL	Yes	6	180
Hollenbeck Lake	53-1359R	Abut 1	BW	1.5	No	9	141
		Hinge 4	DJ	1.5	Yes	6	66
		Abut 7	BW	1.5	No	9	66
W10-N5 Conn	53-1333F	Abut 5	BW	1.5	No	9	96
		Abut 5	PN	0.5	No	9	96
State Street OC (Ramp Spur)	53-1350K	Abut 1-2	DJ	0.5	Yes	6	28
		Abut 1-3	DJ	0.5	Yes	6	28
		Abut 1-4	PN	0.5	Yes	6	28
State Street OC	53-0130	Abut 1	BW	1.5	No	9	40
		Ramp L	BW	1.5	No	9	28
		Abut 3-1	BW	1.5	No	9	45
		Abut 3-2	BW	1.5	No	9	40

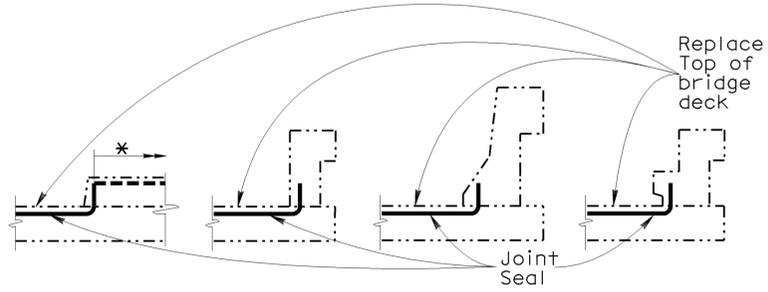
NOTE:
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PN = Paving Notch
 BW = Backwall
 DJ = Deck Joint

STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY Edward Nahm	CHECKED Edward Nahm	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTES 5,10 BRIDGES MISCELLANEOUS DETAILS NO. 1					
	DETAILS	BY Clayton Tom	CHECKED Tony Brake			Various						
	QUANTITIES	BY Edward Nahm	CHECKED Edward Nahm			Varies						
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0	1	2	3	UNIT: 3489 PROJECT NUMBER & PHASE: 0712000049 1	CONTRACT NO.: 07-1W3901	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 17 OF 21

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,10	9.7/18.4 18.3/18.5	37	40

REGISTERED CIVIL ENGINEER DATE 01-16-13
 PLANS APPROVAL DATE 3-4-13
 No. C66900
 Exp. 09/30/14
 CIVIL
 STATE OF CALIFORNIA
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BARRIER RAIL

JOINT SEAL AT LOW SIDE OF DECK

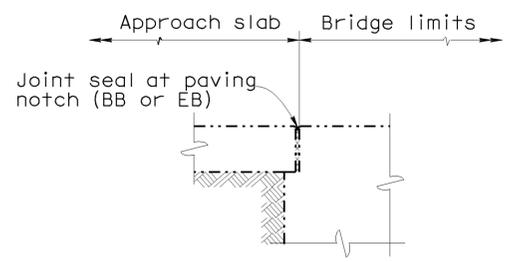
Details shown for illustration purposes only.
 For use only where deck joint matches the sidewalk, curb or barrier rail joint.
 * Extension of joint seal will be determined by the Engineer if necessary.

NOTES:

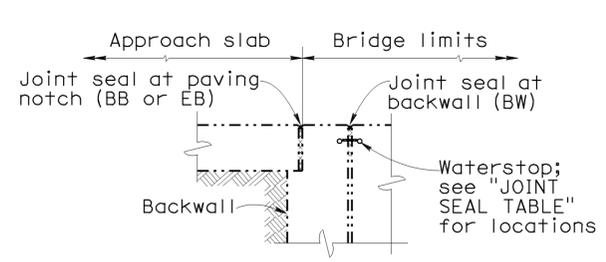
- The following notes apply to JOINT SEAL TYPE A:
- Install Joint Seal (MR = 1/2") or Silicone Joint Seal 3" up into curb or barrier rail on the low side of the deck where deck joint aligns with curb or barrier rail joint.
- For details not shown see Standard Plan B6-21.
- The following notes apply to JOINT SEAL TYPE B:
- 1) Seal must satisfy both minimum Movement Rating (MR) and minimum W1 requirements.
 - 2) Minimum W1 is the calculated maximum width of the joint based on field measurements. After the joints have been cleaned, minimum W1 is to be recalculated by the Engineer.
 - 3) W1 shall be the smaller of the values determined as follows:
 - A) 0.85 times the manufacturer's designed minimum uncompressed width of the seal.
 - B) The width of the seal on the third successive test cycle of the pressure deflection test, when compressed to an average pressure of 3.0 PSI.
 - 4) Bend Type B joint seal 6 inches up into curb or rail on the low side of the deck where deck joint matches curb or rail joint.

For details not shown see Standard Plan B6-21.

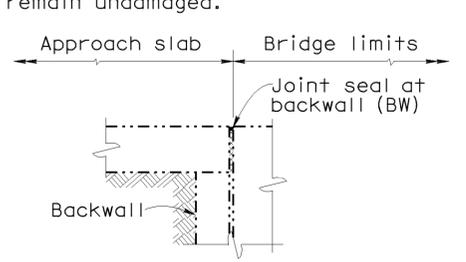
Note: Reinforcement may be encountered during deck concrete removal and is to remain undamaged.



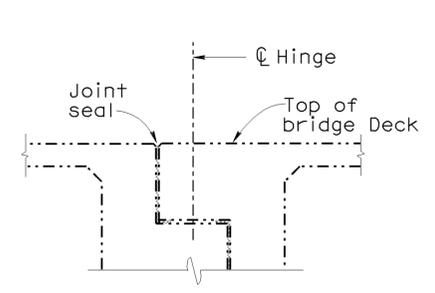
DIAPHRAGM ABUTMENT



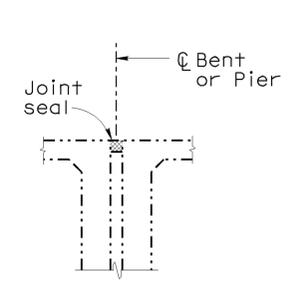
ABUTMENT WITH BACKWALL AND PAVING NOTCH



ABUTMENT WITH BACKWALL



HINGE



BENT OR PIER

JOINT SEAL LOCATION

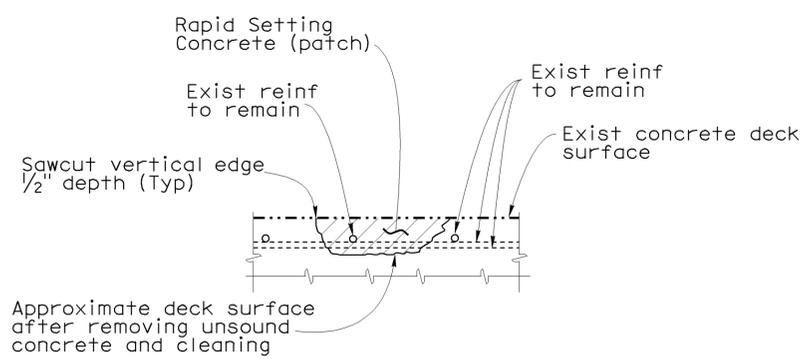
Abutment joint seal is not required with AC roadway pavement transverse contact joints

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STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY Edward Nahm	CHECKED Edward Nahm	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	Various	ROUTES 5,10 BRIDGES	
	DETAILS	BY Clayton Tom	CHECKED Tony Brake			POST MILE			MISCELANEOUS DETAILS NO. 2
	QUANTITIES	BY Edward Nahm	CHECKED Edward Nahm			Varies			
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				UNIT: 3489 PROJECT NUMBER & PHASE: 0712000049 1	CONTRACT NO.: 07-1W3901	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 18 OF 21	

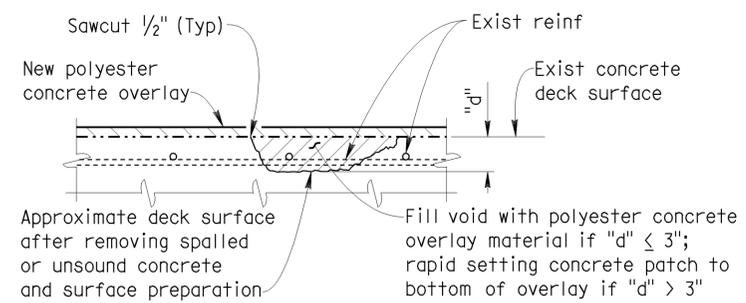
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,10	9.7/18.4 18.3/18.5	38	40

01-16-13
 REGISTERED CIVIL ENGINEER DATE
 3-4-13
 PLANS APPROVAL DATE
 No. C66900
 Exp. 09/30/14
 CIVIL
 STATE OF CALIFORNIA
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DECK DAMAGE REPAIR DETAIL

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



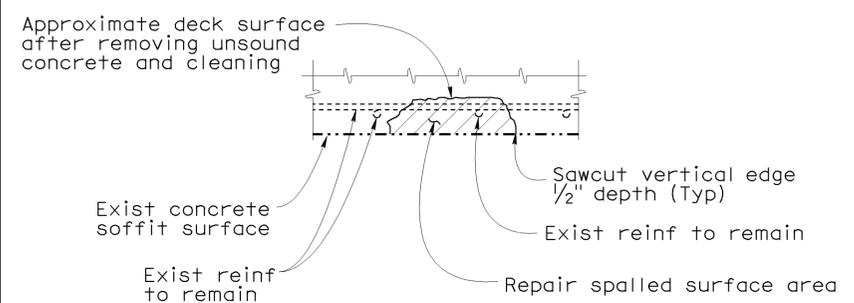
DECK REPAIR DETAIL - OVERLAY

(Br No. 53-0597, 53-1366R, 53-0130)
Reinforcement may be encountered during deck concrete removal.

- CONSTRUCTION NOTES:**
- Existing reinforcement shall be protected in place during unsound concrete removal and patching operations.
 - It is responsibility of the Contractor to repair any reinforcement that is accidentally cut by saw cutting operations.
 - When existing transverse reinforcement is exposed in the deck surface, saw cutting may be waived with the approval of the Engineer.
 - The saw cut depth shall not exceed 1/2 inch or the concrete bars 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.

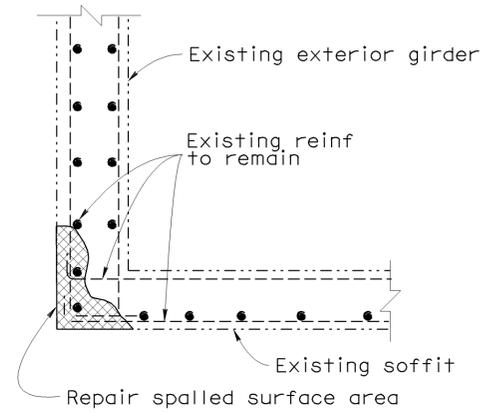
**DECK REPAIR TABLE
REMOVE UNSOUND CONCRETE AND
RAPID SETTING CONCRETE (PATCH)**

BRIDGE NAME	BRIDGE NUMBER	APPROXIMATE AREA DAMAGED (%)	APPROXIMATE DEPTH (INCH)
Boyle Ave OC	53-0597	1	3
Seventh St OC	53-1366R	1	3
State St OC	53-0130	1	3



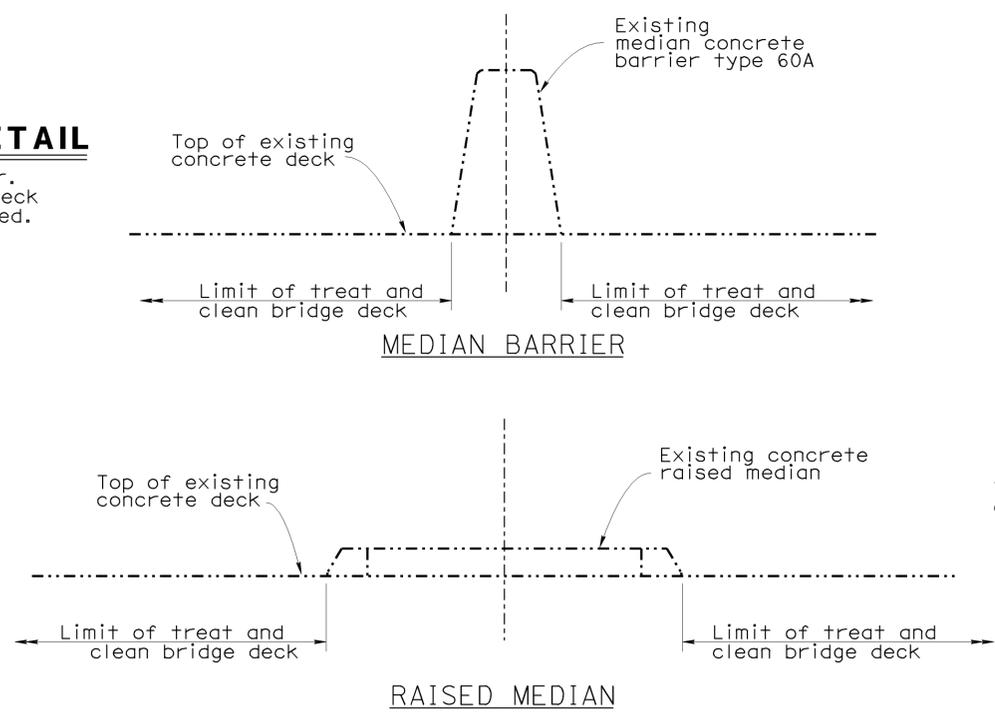
SOFFIT SPALL REPAIR DETAIL

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



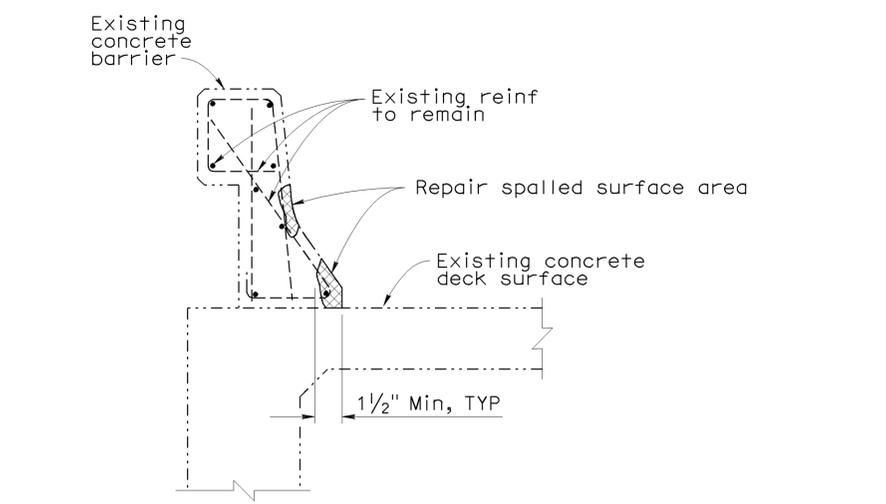
SPALLED SURFACE AREA DETAIL

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



TYPICAL LIMITS OF DECK WORK

NO SCALE



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.

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DESIGN	BY Edward Nahm	CHECKED Edward Nahm
DETAILS	BY Clayton Tom	CHECKED Tony Brake
QUANTITIES	BY Edward Nahm	CHECKED Edward Nahm

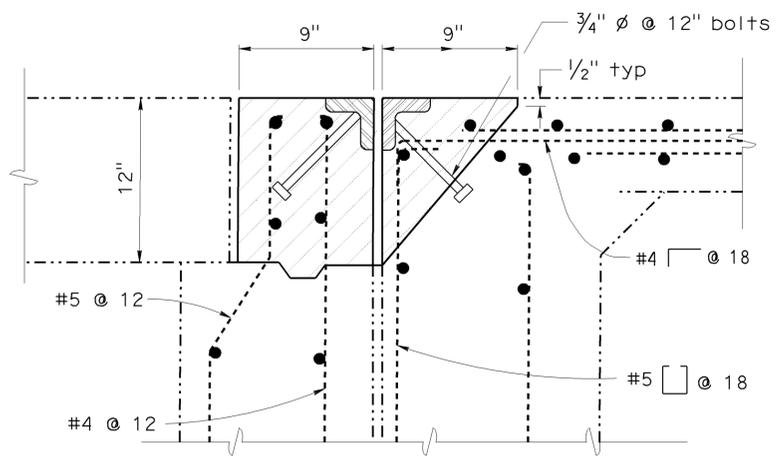
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN**

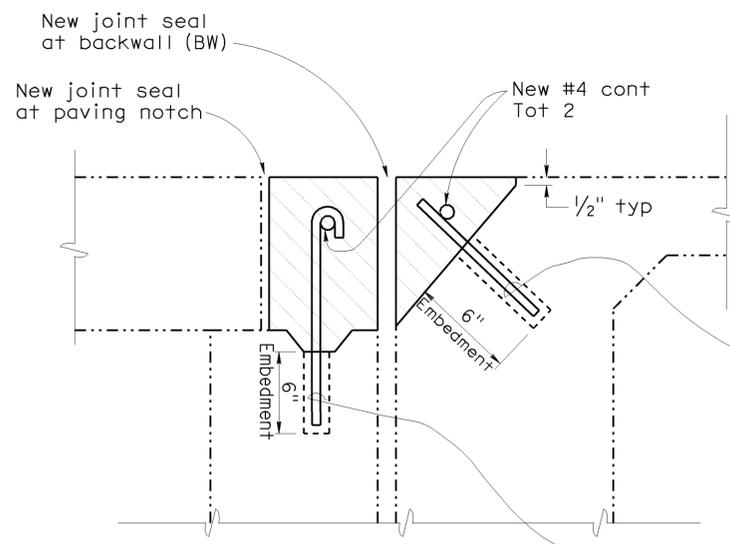
BRIDGE NO.	Various
POST MILE	Varies

**ROUTES 5,10 BRIDGES
MISCELANEOUS DETAILS NO. 3**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,10	9.7/18.4 18.3/18.5	39	40
			01-16-13		
			REGISTERED CIVIL ENGINEER		
			DATE		
			3-4-13		
			PLANS APPROVAL DATE		
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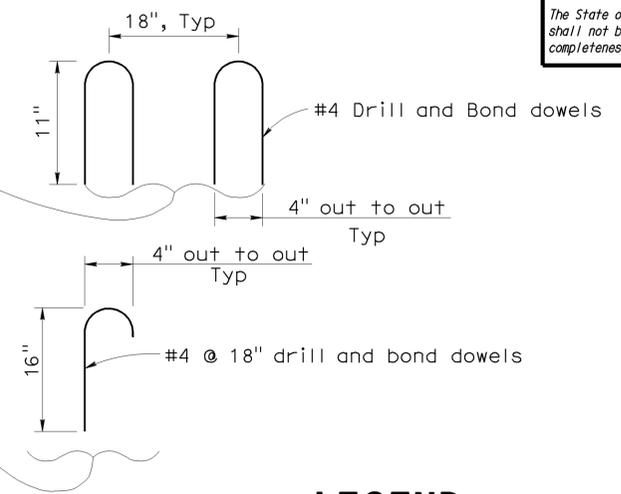
EXISTING



RECONSTRUCTION

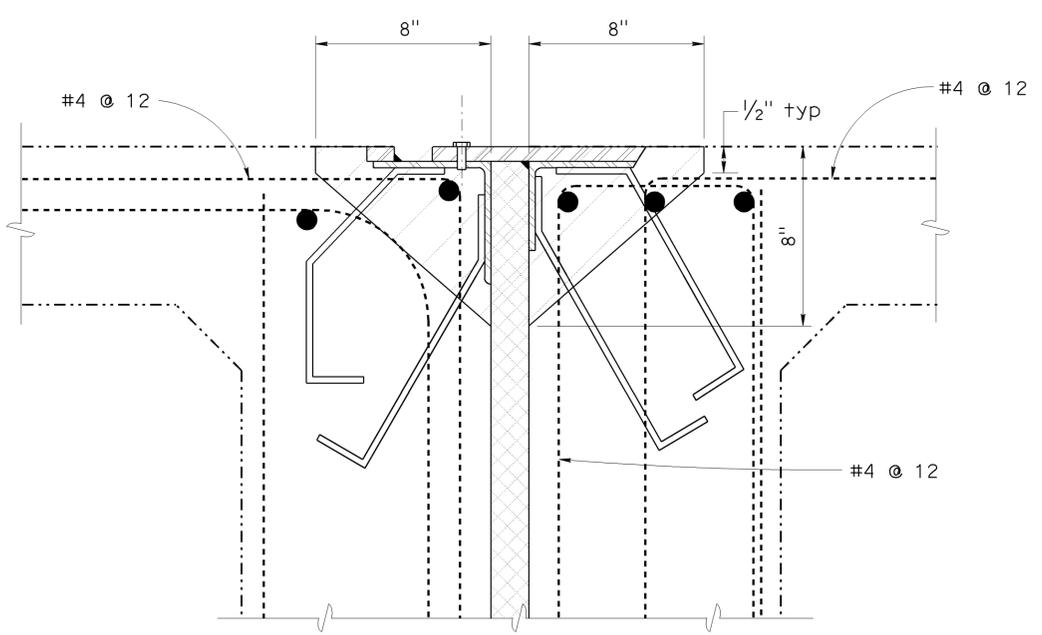
AT ABUTMENT

No Scale

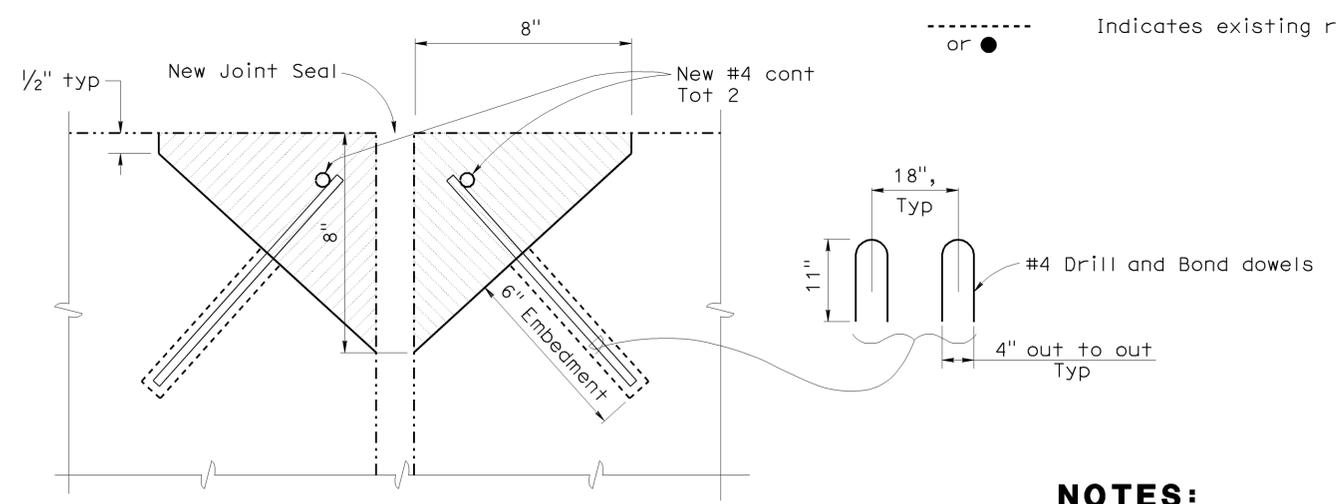


LEGEND:

- Indicates existing.
- Indicates new structure.
- Indicates concrete removal limits. Preserve existing reinforcement.
- Indicates rapid strength structural concrete.
- or ● Indicates existing reinforcement.



EXISTING



RECONSTRUCTION

AT HINGE

No Scale

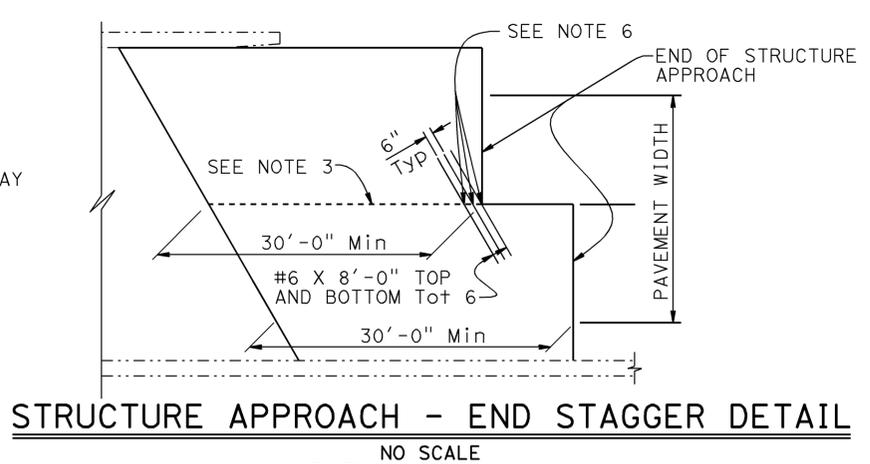
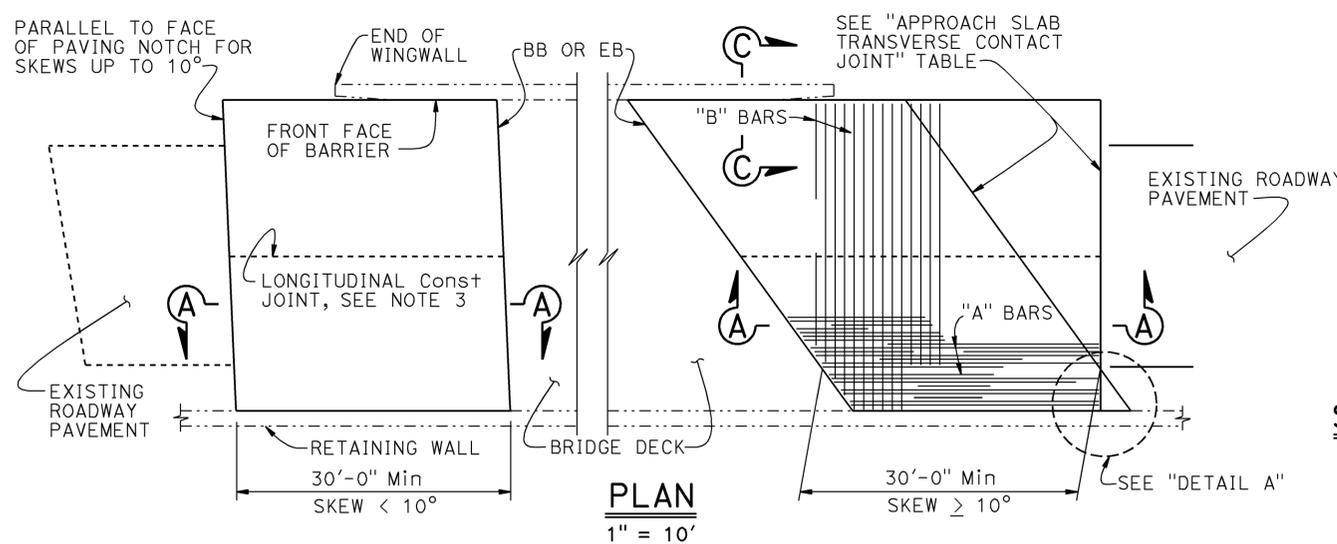
NOTES:

1. For location of joint seal replacement at abutment, see "GENERAL PLAN 7" and "GENERAL PLAN 9" sheet.
2. For location of joint seal replacement at hinge, see "GENERAL PLAN 7" sheet.
3. For joint seal details, see "MISCELLANEOUS DETAILS NO. 2" sheet.

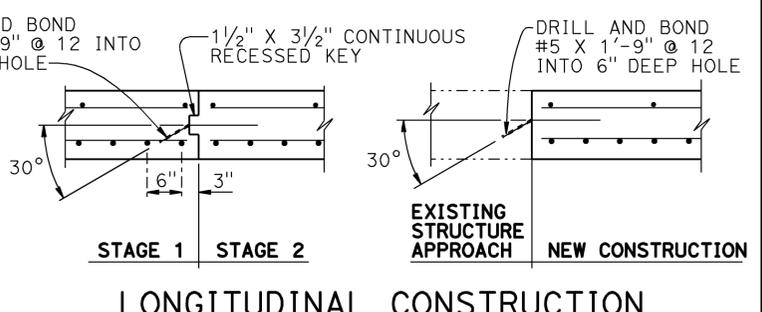
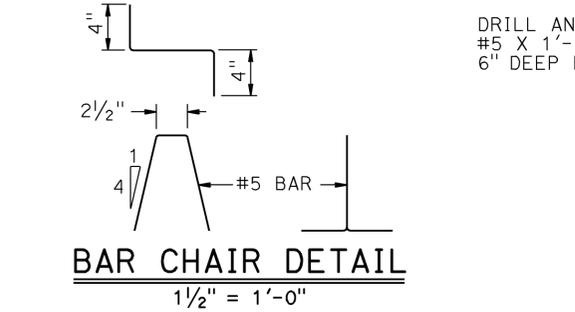
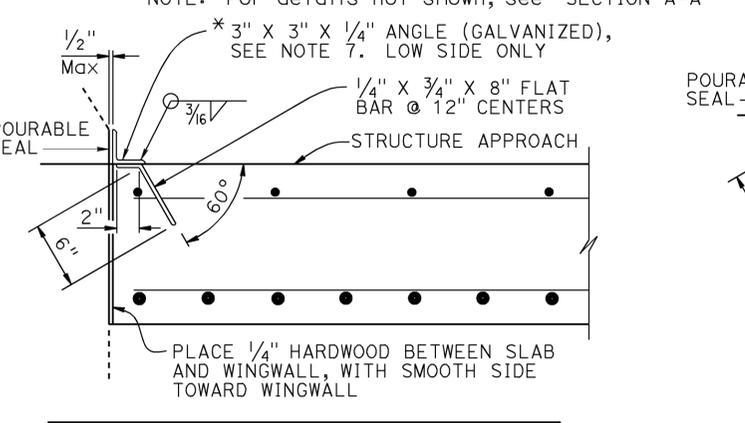
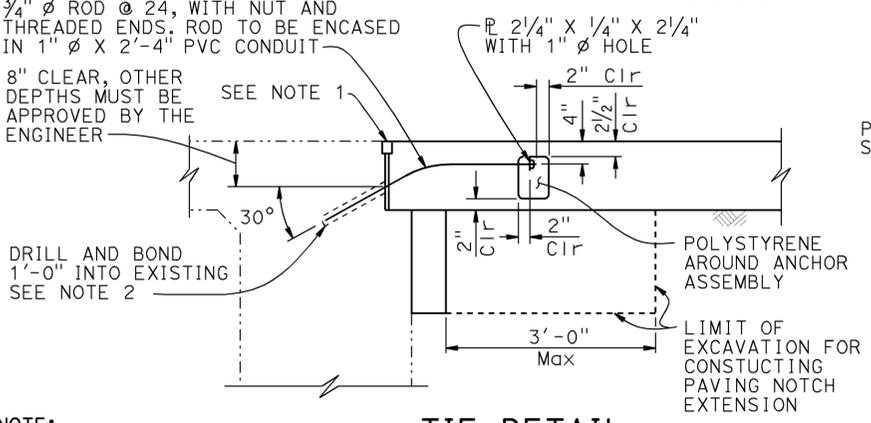
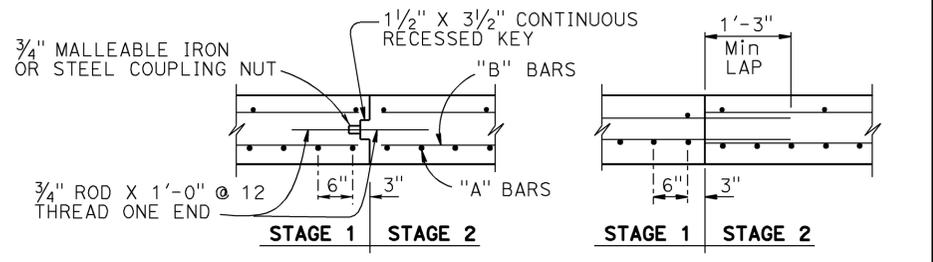
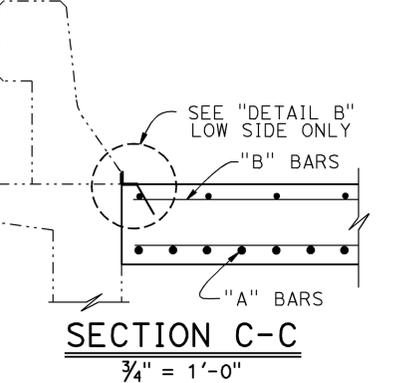
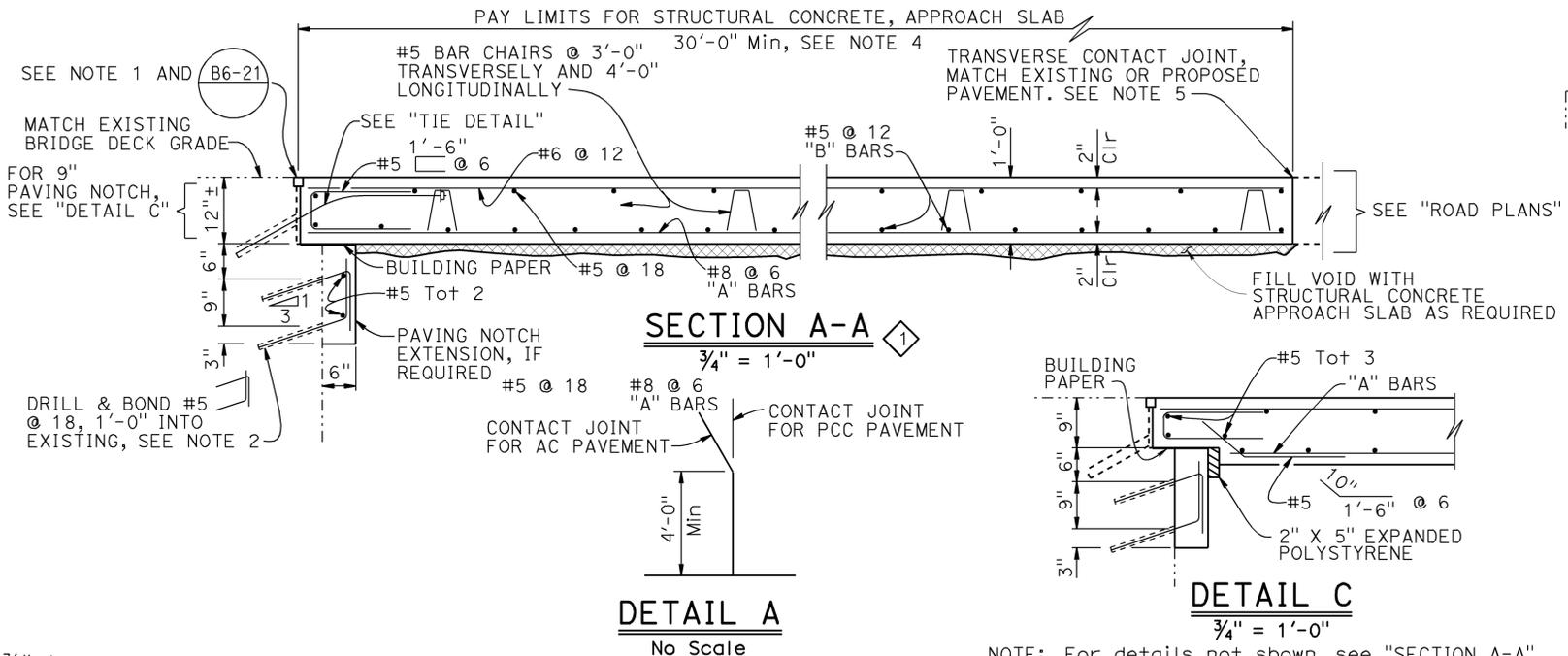
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DESIGN BY Edward Nahm CHECKED Edward Nahm DETAILS BY Clayton Tom CHECKED Tony Brake QUANTITIES BY Edward Nahm CHECKED Edward Nahm	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTE 5, 10 BRIDGES JOINT SEAL REPLACEMENT DETAILS			
			Various				
			Varies				
STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 09-01-10)		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3489 PROJECT NUMBER & PHASE: 0712000049 1 CONTRACT NO.: 07-1W3901	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 08-17-12 10-31-12 12-20-12 01-16-13	SHEET OF 20 21

USERNAME => s117283 DATE PLOTTED => 17-JAN-2013 TIME PLOTTED => 10:19

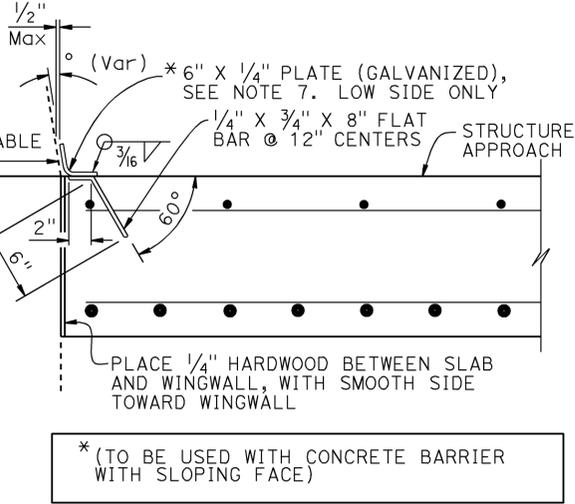


APPROACH SLAB TRANSVERSE CONTACT JOINT		
APPROACH SKEW	WITH AC ROADWAY PAVEMENT	WITH PCC ROADWAY PAVEMENT
< 10°	PARALLEL TO FACE OF PN	PARALLEL TO FACE OF PAVING NOTCH
10° - 45°	PARALLEL TO FACE OF PN USE "DETAIL A"	STAGGER LINES 24' TO 36' APART
> 45°	PARALLEL TO FACE OF PN USE "DETAIL A"	STAGGER AT EACH LANE LINE



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

*(TO BE USED WITH CONCRETE BARRIER WITH VERTICAL FACE)



- NOTES:
- For details not shown or noted, see Structure Plans. Adjust bar reinforcement to clear a sawcut for sealed joint, when required
 - Space to avoid existing prestress anchorages and main reinforcement
 - Longitudinal construction joints, when permitted by the Engineer, shall be located on lane lines
 - Transverse contact joint shall be a minimum of 5'-0" from an existing or constructed weakened plane joint
 - For transverse contact joint with new PCC paving, refer to Standard Plan P10
 - Couplers are required for stage construction
 - End angle or plate at beginning of barrier transition, end of wingwall or end of structure approach as applicable

REVISED STANDARD DRAWING

FILE NO. **xs3-150**

APPROVAL DATE July 2011

REVISD

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

BRIDGE NO. Various
POST MILE Varies

SPECIAL DETAILS

ROUTE 5,14,101 BRIDGES

STRUCTURE APPROACH TYPE R(30D)