Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14,101	Var	1	42

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	LOCATIONS OF CONSTRUCTION
3-6	CONSTRUCTION AREA SIGNS
7-18	TRAFFIC HANDLING DETAILS
19	PAVEMENT DELINEATION QUANTITIES
20-25	TRAFFIC CONTROL SYSTEM
26-27	REVISED STANDARD PLANS
STRUCTURE PLANS	
28-42	ROUTES 5,14,101 BRIDGES

THE STANDARD PLANS LIST APPLICABLE TO THE CONTRACT IS INCLUDED IN THE BID BOOK AND SPECIAL PROVISION BOOK

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

STATE OF CALIFORNIA

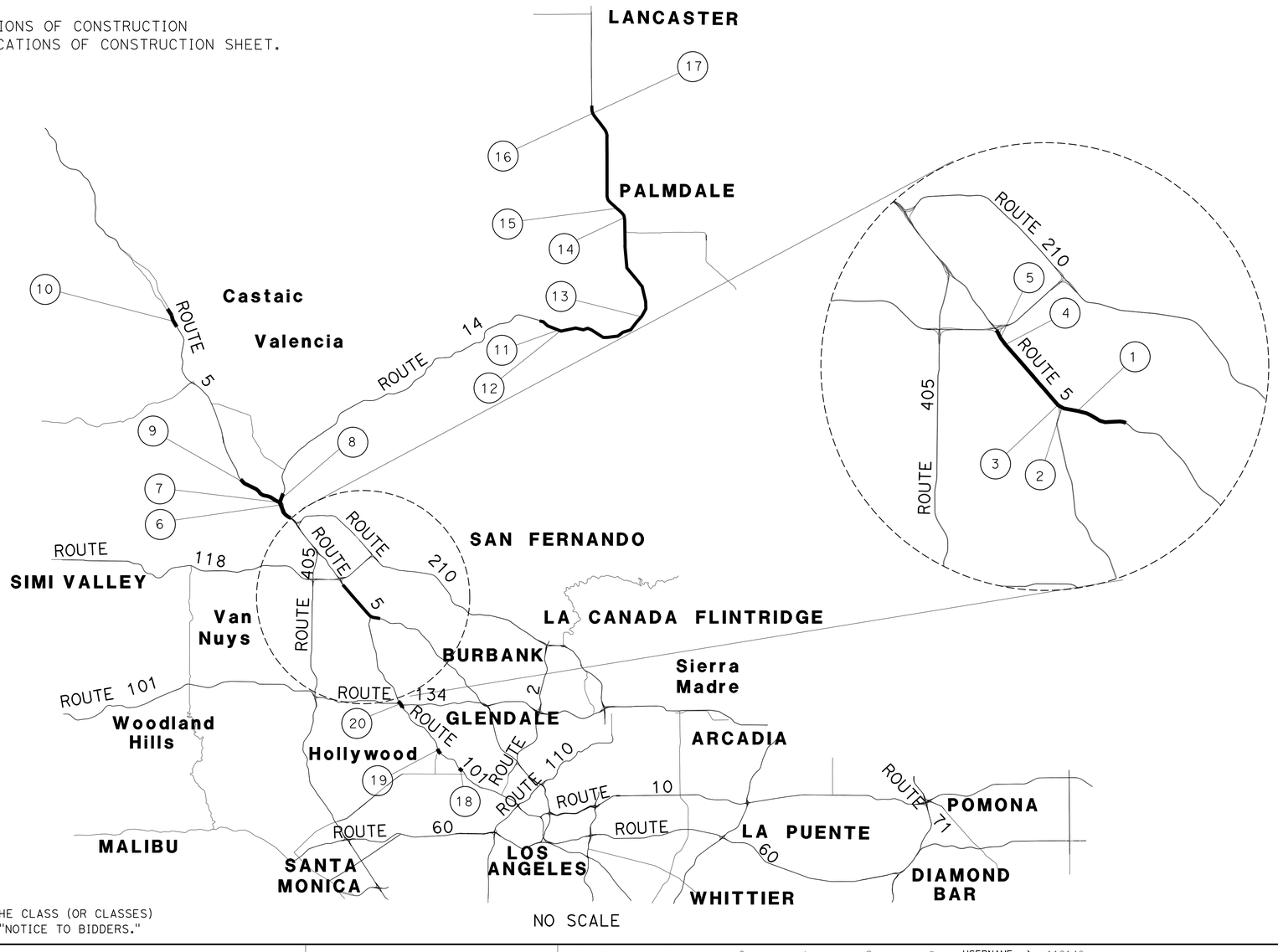
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON

STATE HIGHWAY

IN LOS ANGELES COUNTY AT VARIOUS LOCATIONS

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010



NO SCALE

LOCATION MAP

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

2-22-13
PROJECT ENGINEER — DATE
REGISTERED CIVIL ENGINEER

BIPIN PATEL
No. 60082
Exp. 6-30-14
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

March 18, 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.	07-1W3604
PROJECT ID	0700021252

DESIGN ENGINEER: BIPIN PATEL
PROJECT MANAGER: CHRISTIAN SAM

LAST REVISION: DATE PLOTTED => 18-MAR-2013 TIME PLOTTED => 08:27
00-00-00

BORDER LAST REVISED 9/30/2012 | CALTRANS WEB SITE IS: HTTP//WWW.DOT.CA.GOV/ | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => s119140 DGN FILE => 71w360ab001.dgn | UNIT 1964 | PROJECT NUMBER & PHASE 07000212521

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14,101	Var	2	42

2-22-13
REGISTERED CIVIL ENGINEER DATE

3-18-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
BIPIN PATEL
No. 60082
Exp 6-30-14
CIVIL
STATE OF CALIFORNIA

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

LOCATIONS OF CONSTRUCTION

Loc No. ⓗ	ROUTE	PM	BRIDGE No.	BRIDGE NAME
1	5	34.99	53 - 1118	LANKERSHIM Blvd OC
2	5	35.35	53 - 1119	PEORIA St OC
3	5	35.94	53 - 1219	LAUREL CANYON Blvd OC
4	5	39.05	53 - 1127	PAXTON St UC
5	5	39.15	53 - 2350G	N5-E118 CONNECTOR OC
6	5	C45.49	53 - 0848G	N5 TRK-N14 CONNECTOR OC
7	5	C45.74	53 - 1936G	N5TRK-N14 CONNECTOR
8	5	C45.75	53 - 0849K	WELDON CANYON OH
9	5	R47.83	53 - 2790L	GAVIN CANYON UC
10	5	R59.95	53 - 1902L	S5-N5 SEPARATION

LOCATIONS OF CONSTRUCTION

Loc No. ⓗ	ROUTE	PM	BRIDGE No.	BRIDGE NAME
11	14	R48.61	53 - 0868L	CROWN VALLEY Rd UC
12	14	R48.61	53 - 0868R	CROWN VALLEY Rd UC
13	14	R54.50	53 - 1004S	SIERRA Hwy UC
14	14	R60.70	53 - 2178R	TECHNOLOGY Dr UC
15	14	R61.53	53 - 2377L	SOUTH MARGOSA CREEK
16	14	R67.95	53 - 2384L	AVENUE "J" UC
17	14	R67.95	53 - 2384R	AVENUE "J" UC
18	101	5.81	53 - 0676	WESTERN Ave OC
19	101	8.05	53 - 0468	PILGRIMAGE OC
20	101	11.75	53 - 1336R	101/134,170 SEPARATION

REVISED BY | DATE REVISED
DINESH BHAVSAR | BIPIN PATEL
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: BIPIN PATEL
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

LOCATIONS OF CONSTRUCTION

LC-1

LAST REVISION 02-08-11 | DATE PLOTTED => 18-MAR-2013 | TIME PLOTTED => 08:27

BORDER LAST REVISED 7/2/2010 | USERNAME => s119140 | DGN FILE => 71w360ba001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1964 | PROJECT NUMBER & PHASE 07000212521

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14,101	Var	3	42

REGISTERED CIVIL ENGINEER — 2-22-13 DATE

3-18-13
PLANS APPROVAL DATE

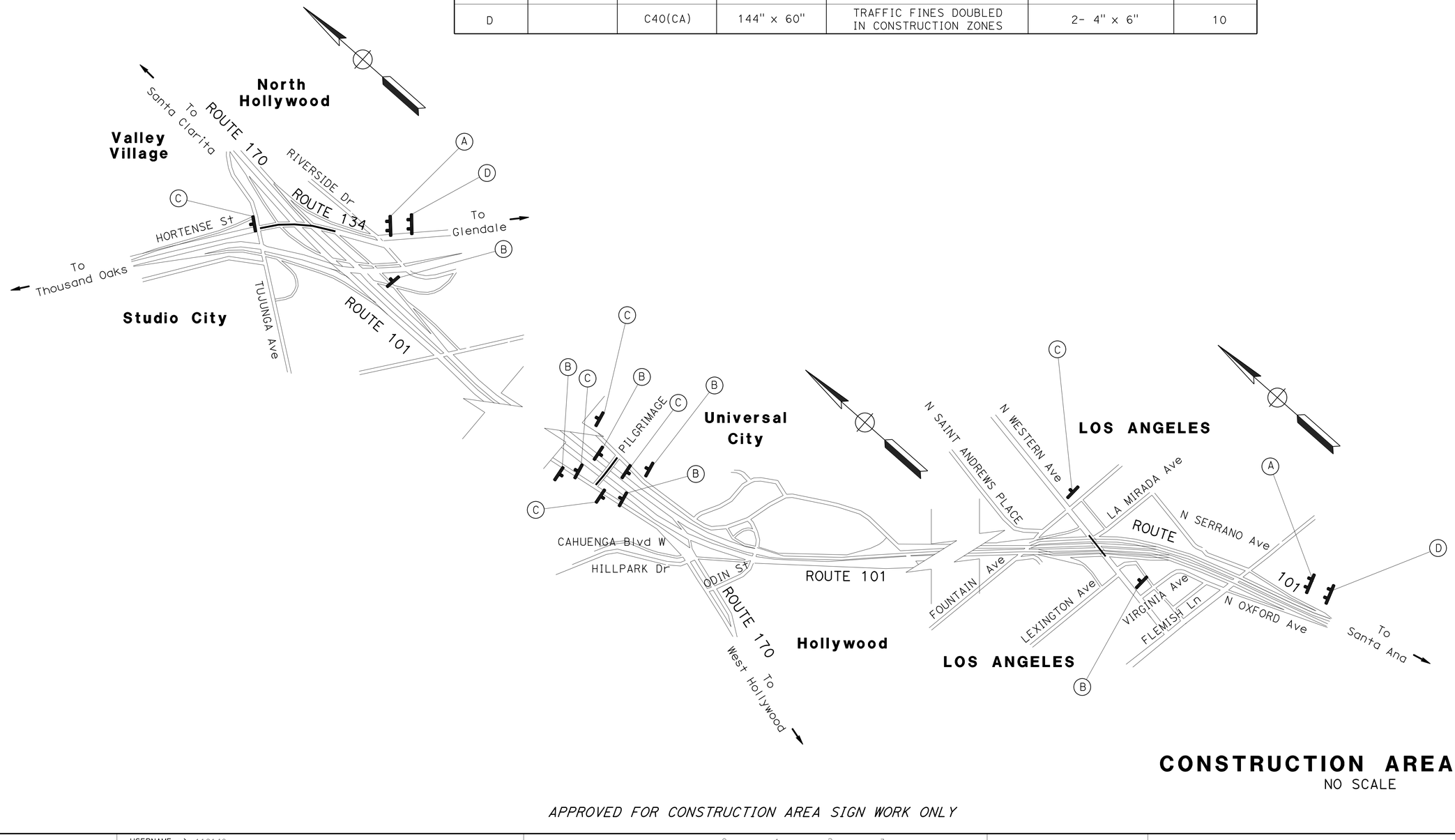
REGISTERED PROFESSIONAL ENGINEER — BIPIN PATEL — No. C60082 — Exp 6-30-14 — CIVIL — STATE OF CALIFORNIA

NOTES:

1. "TRAFFIC FINES DOUBLED IN WORK ZONES" SIGNS SHALL BE PLACED APPROXIMATELY 500 FEET IN ADVANCE OF "ROAD WORK AHEAD" SIGNS.
2. LOCATIONS OF CONSTRUCTION AREA SIGNS AS SHOWN ARE APPROXIMATE.
3. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THIS PLAN.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No. (X)	SIGN CODE		PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
	FEDERAL	CALIFORNIA				
A	W20-1		60" x 60"	ROAD WORK AHEAD	2- 6" x 6"	10
B	W20-1		48" x 48"	ROAD WORK AHEAD	1- 6" x 6"	31
C	G20-2		48" x 24"	END ROAD WORK	1- 4" x 4"	31
D		C40(CA)	144" x 60"	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	2- 4" x 6"	10



CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

DESIGNED BY: DINESH BHAVSAR
CALCULATED- : JOHN ZAKI
CHECKED BY:
REVISED BY:
DATE REVISED:
FUNCTIONAL SUPERVISOR: BIPIN PATEL

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE ENGINEERING

LAST REVISION | DATE PLOTTED => 18-MAR-2013
00-00-00 | TIME PLOTTED => 08:27

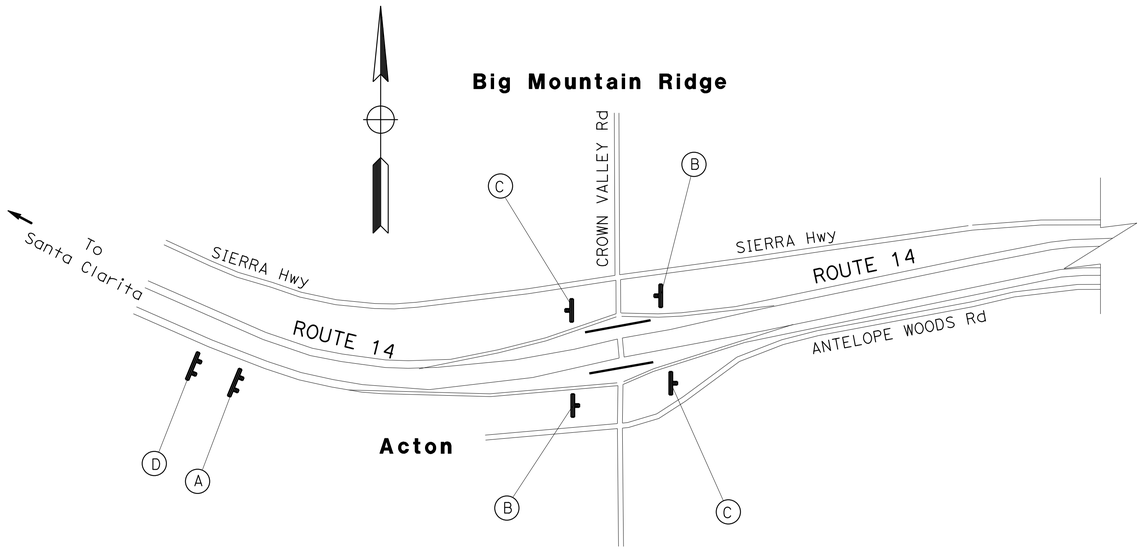
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14,101	Var	4	42

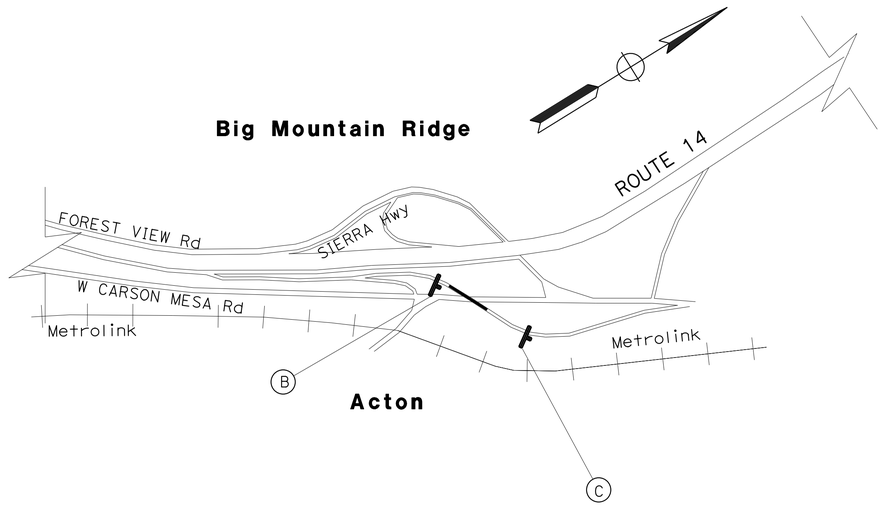
2-22-13
REGISTERED CIVIL ENGINEER DATE

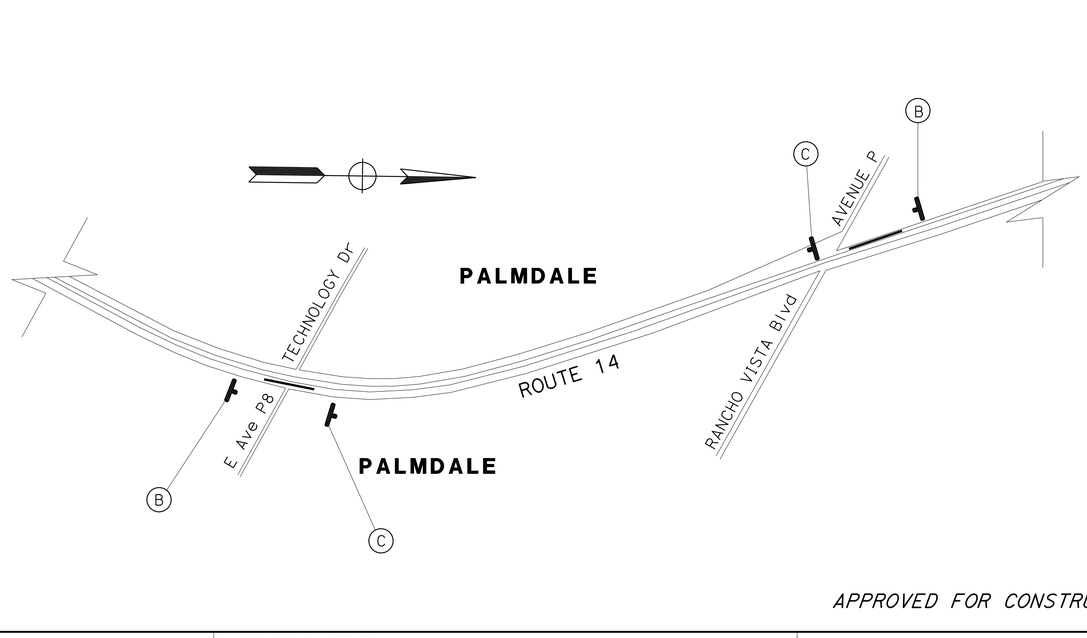
3-18-13
PLANS APPROVAL DATE

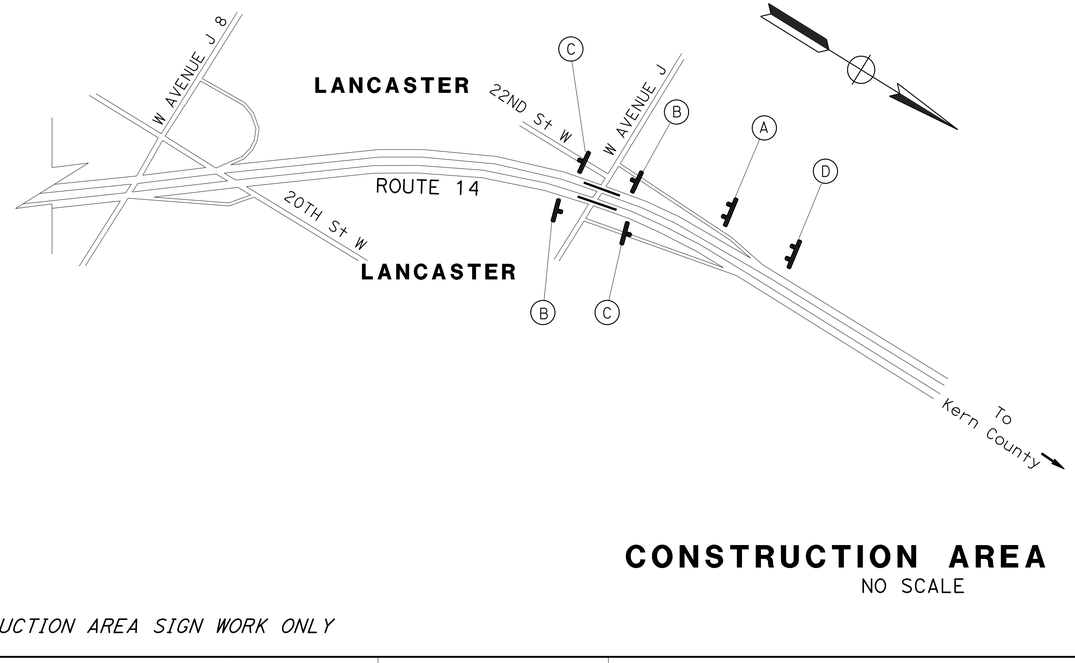
REGISTERED PROFESSIONAL ENGINEER
BIPIN PATEL
No. C60082
Exp 6-30-14
CIVIL
STATE OF CALIFORNIA

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









CONSTRUCTION AREA SIGNS

NO SCALE

CS-2

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: BIPIN PATEL

CALCULATED-DESIGNED BY: DINESH BHAVSAR
CHECKED BY: JOHN ZAKI

REVISED BY | DATE REVISED

LAST REVISION | DATE PLOTTED => 18-MAR-2013
00-00-00 | TIME PLOTTED => 08:27

BORDER LAST REVISED 7/2/2010

USERNAME => s119140
DGN FILE => 71w3601a002.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1964

PROJECT NUMBER & PHASE 07000212521

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14,101	Var	5	42

2-22-13
REGISTERED CIVIL ENGINEER DATE

BIPIN PATEL
No. C60082
Exp 6-30-14
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

3-18-13
PLANS APPROVAL DATE

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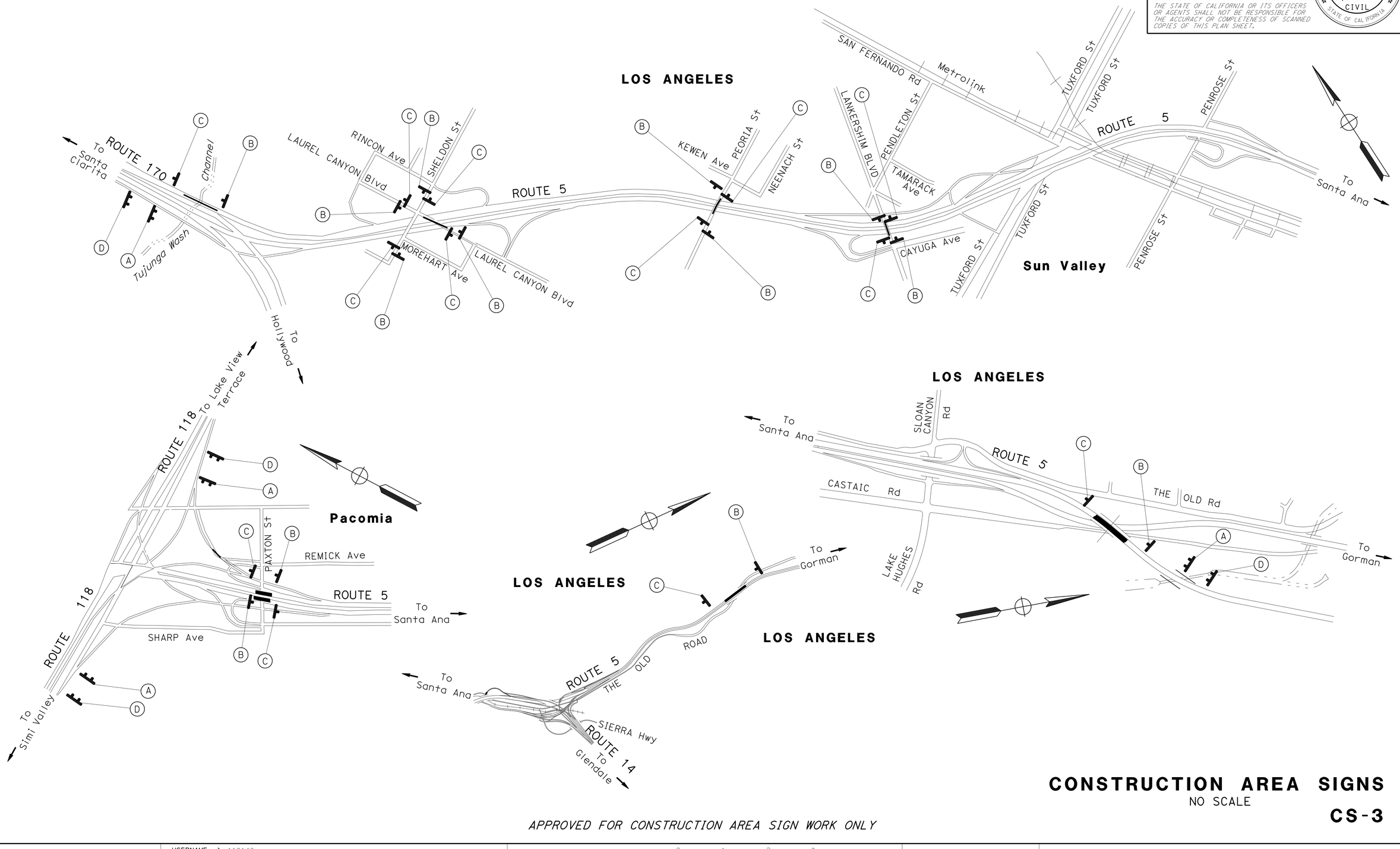

CONSTRUCTION AREA SIGNS

NO SCALE

CS-3

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: BIPIN PATEL

CALCULATED-DESIGNED BY:
CHECKED BY:

DINESH BHAVSAR
JOHN ZAKI

REVISED BY
DATE REVISED

LAST REVISION: DATE PLOTTED => 18-MAR-2013
00-00-00 TIME PLOTTED => 08:27

BORDER LAST REVISED 7/2/2010

USERNAME => s119140
DGN FILE => 71w3601a003.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1964

PROJECT NUMBER & PHASE 07000212521

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14,101	Var	6	42

REGISTERED CIVIL ENGINEER — 2-22-13 DATE

BIPIN PATEL No. C60082 Exp 6-30-14 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

3-18-13
PLANS APPROVAL DATE

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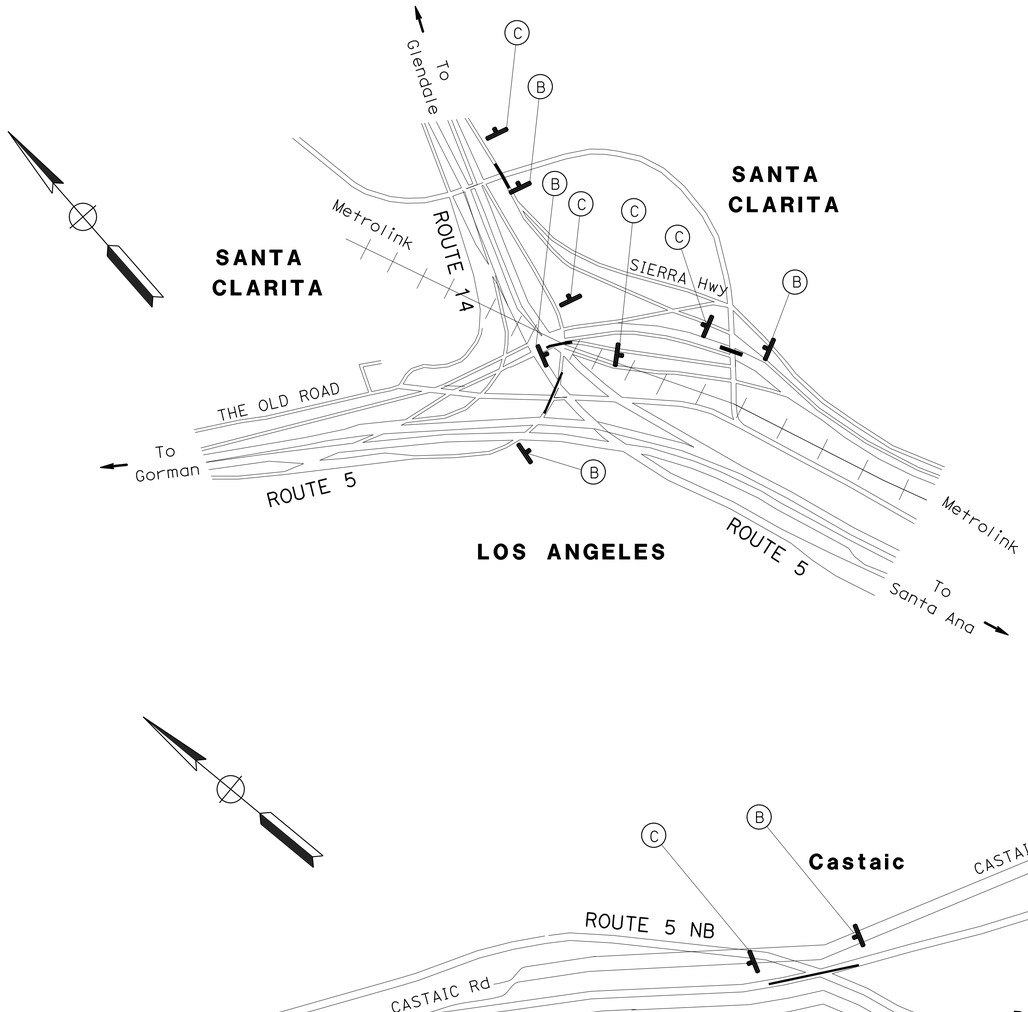


CONSTRUCTION AREA SIGNS

NO SCALE

CS-4

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: BIPIN PATEL

CALCULATED-DESIGNED BY: DINESH BHAVSAR
CHECKED BY: JOHN ZAKI

REVISED BY | DATE REVISED

LAST REVISION | DATE PLOTTED => 18-MAR-2013
00-00-00 | TIME PLOTTED => 08:27

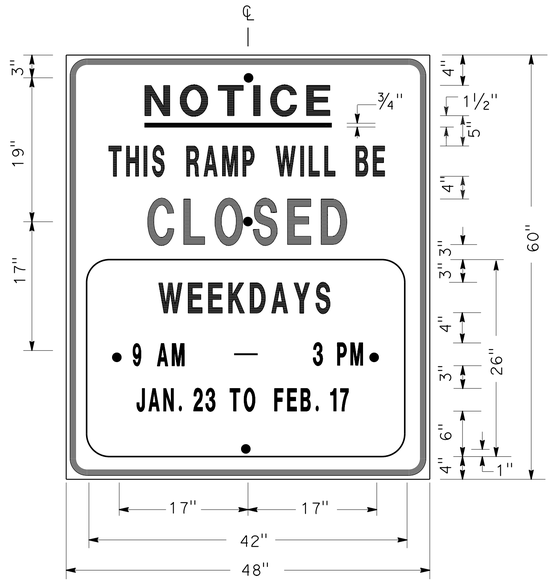
BORDER LAST REVISED 7/2/2010

USERNAME => s119140
DGN FILE => 71w3601a004.dgn

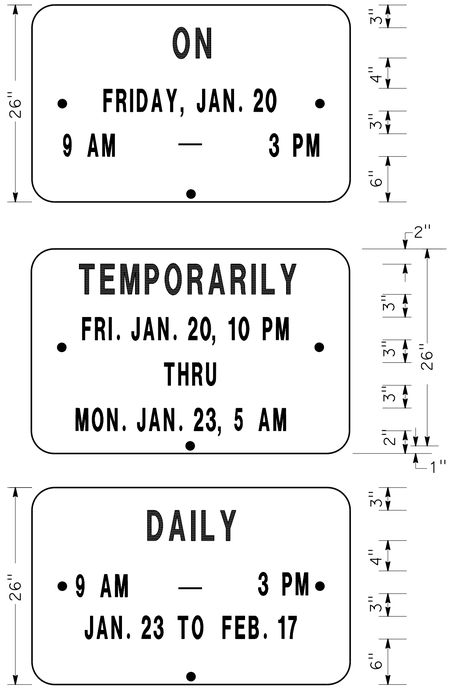
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1964

PROJECT NUMBER & PHASE 07000212521



SIGN SP-1



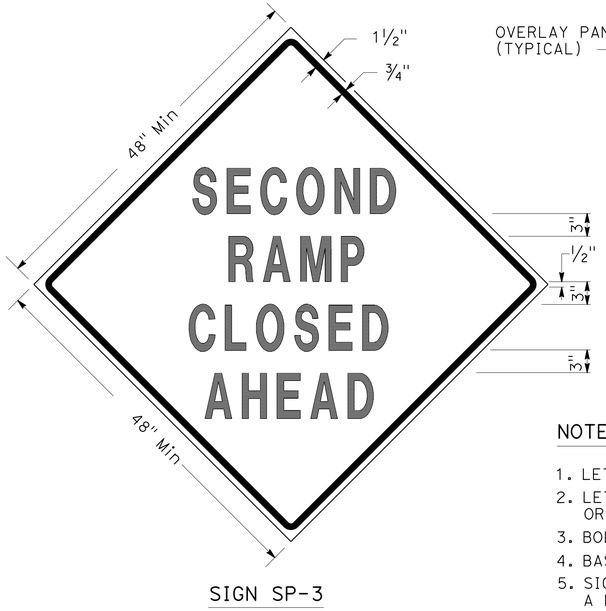
ALTERNATE OVERLAY PANELS (TYPICAL)

NOTES: (SIGN SP-1)

1. LETTERS AND BORDER SHALL BE BLACK ON REFLECTORIZED ORANGE BACKGROUND.
2. BOLT HOLES SHALL BE 3/8" DIAMETER.
3. BASE MATERIAL SHALL BE ALUMINUM (MINIMUM 0.06").
4. 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)

1. LETTERS - 6" SERIES D.
2. LETTERS AND BORDER SHALL BE BLACK ON REFLECTORIZED ORANGE BACKGROUND.
3. BOLT HOLES SHALL BE 3/8" DIAMETER.
4. BASE MATERIAL SHALL BE ALUMINUM (MINIMUM 0.06").
5. SIGNS SHALL BE MOUNTED WITH BOTTOMS OF SIGNS A MINIMUM OF 7' ABOVE GROUND.
6. 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)

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

SPECIAL SIGN FOR ENTRANCE RAMP CLOSURES

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14,101	Var	7	42

Mark Orgel 2-20-13
REGISTERED CIVIL ENGINEER DATE

3-18-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MARTIN OREGEL
No. C56816
Exp. 6-30-13
CIVIL
STATE OF CALIFORNIA

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

TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURES, DETOUR SIGNS, AND MISCELLANEOUS DETAILS
SHEET 1 OF 2

NO SCALE

THD-1

CALCULATED-DESIGNED BY	
CHECKED BY	
REVISED BY	JC
DATE REVISED	3/12
ALBERT K YU	
JOCELYN C CHIANG	
FUNCTIONAL SUPERVISOR	JOHN YANG

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DTM
Caltrans®

LAST REVISION DATE PLOTTED => 18-MAR-2013
00-00-00 TIME PLOTTED => 08:27

BORDER LAST REVISED 7/2/2010

USERNAME => s119140
DGN FILE => 71w360me001.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1887 | PROJECT NUMBER & PHASE | 07000212521

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14,101	Var	8	42

Matt Oregel 2-20-13
REGISTERED CIVIL ENGINEER DATE

3-18-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MARTIN OREGEL
No. C56816
Exp. 6-30-13
CIVIL
STATE OF CALIFORNIA

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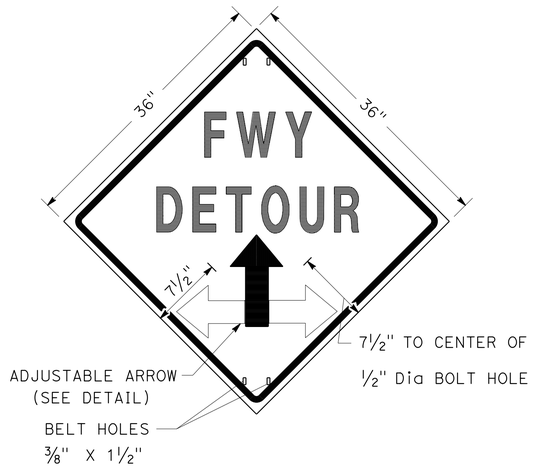
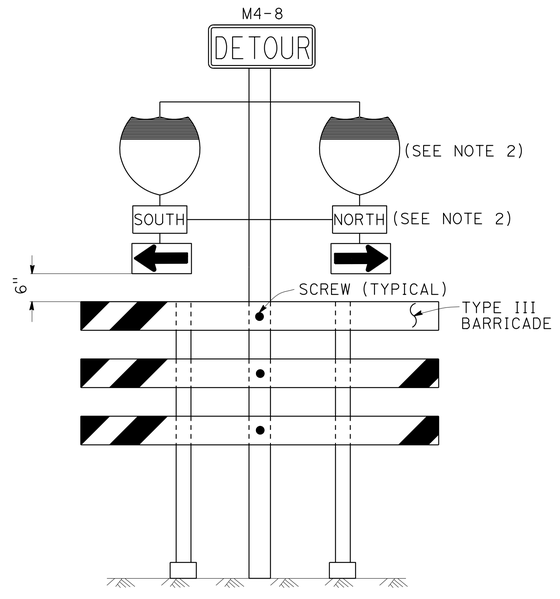
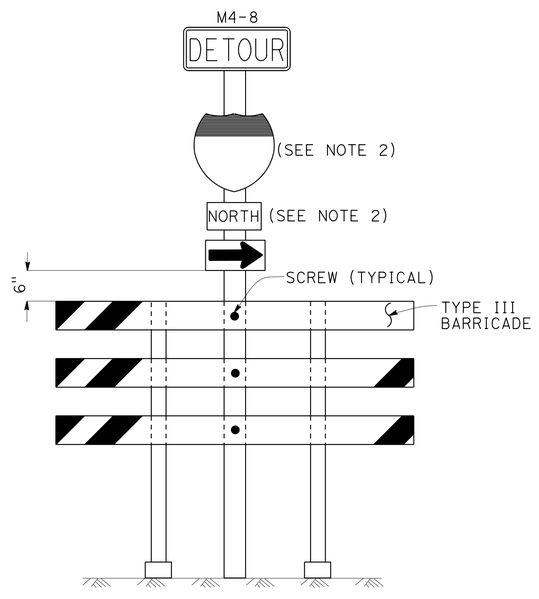


SIGN SP-2



SIGN SP-6 (SEE NOTE 1)



SIGN SP-7 (SEE NOTE 1)

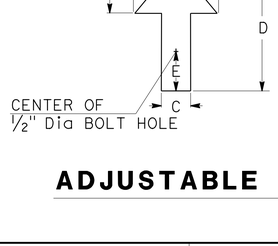
NOTES: SIGN SP-2

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

NOTES: SIGNS SP-6 & SP-7

1. IN LIEU OF PLACING SIGNS ON TYPE III BARRICADES, SIGNS, INCLUDING POSTS, MAY BE PLACED INTO THE GROUND OR FASTENED ONTO ELECTROLIERS.
2. 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



DIMENSIONS				
A	B	C	D	E
6"	3"	2"	8"	1"

ADJUSTABLE ARROW DETAIL

ABBREVIATION

(CA) CALIFORNIA CODE

TRAFFIC HANDLING DETAILS

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

SHEET 2 OF 2

NO SCALE

THD-2

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

LAST REVISION: DATE PLOTTED => 18-MAR-2013
00-00-00 TIME PLOTTED => 08:27

BORDER LAST REVISED 7/2/2010 | USERNAME => s119140 | DGN FILE => 71w360me002.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1887 | PROJECT NUMBER & PHASE 07000212521

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14,101	Var	9	42

REGISTERED CIVIL ENGINEER — DATE: 2-20-13

MARTIN OREGEL No. C56816 Exp. 6-30-13 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

PLANS APPROVAL DATE: 3-18-13

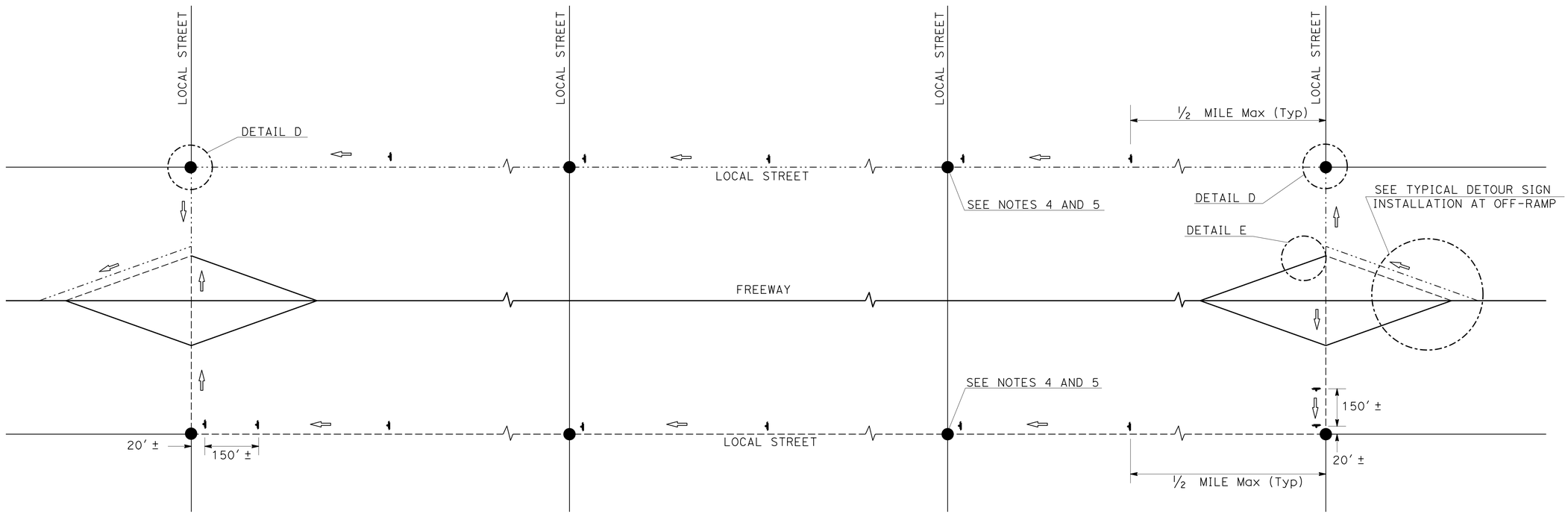
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

LEGEND

- 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

CALCULATED-DESIGNED BY: ALBERT K YU
CHECKED BY: JOCELYN C CHIANG
FUNCTIONAL SUPERVISOR: JOHN YANG
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DTM
Caltrans

REVISED BY: JC — DATE REVISED: 3/12

LAST REVISION: DATE PLOTTED => 18-MAR-2013 TIME PLOTTED => 08:27
00-00-00

BORDER LAST REVISED 7/2/2010
USERNAME => s119140
DGN FILE => 71w360me003.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1887
PROJECT NUMBER & PHASE 07000212521

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14,101	Var	10	42

Matt Oregel 2-20-13
REGISTERED CIVIL ENGINEER DATE

3-18-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MARTIN OREGEL
No. C56816
Exp. 6-30-13
CIVIL
STATE OF CALIFORNIA

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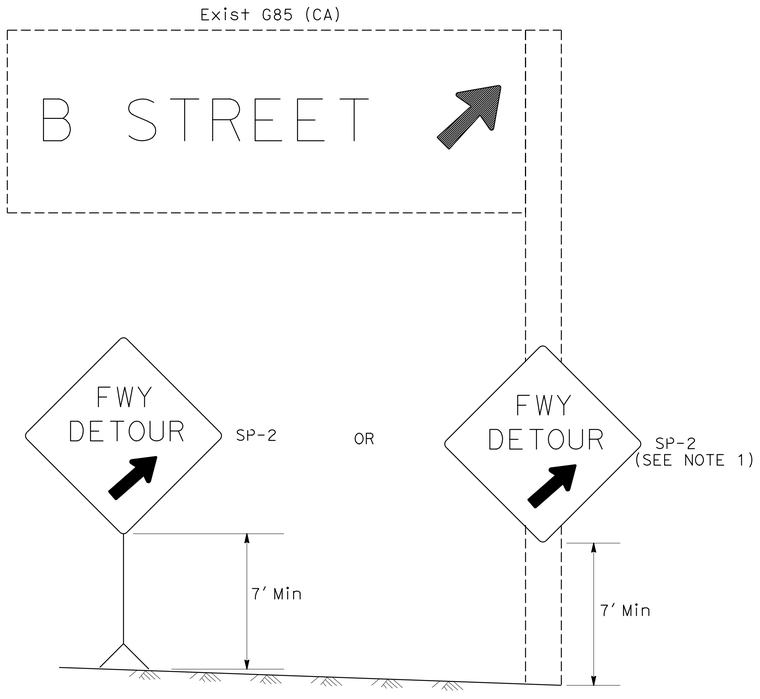
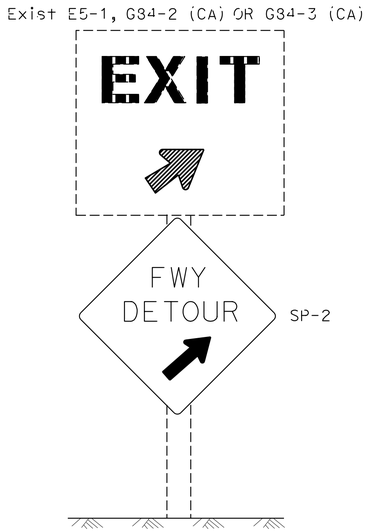
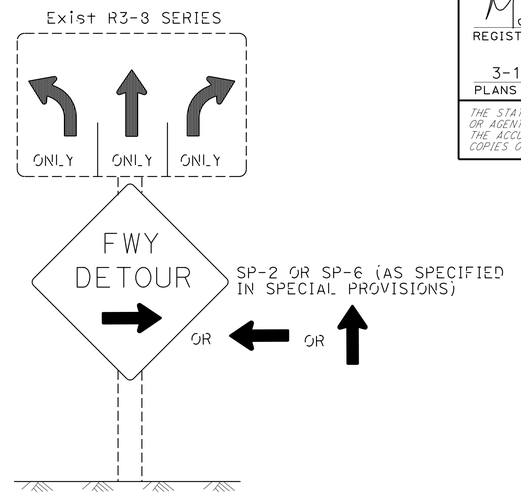


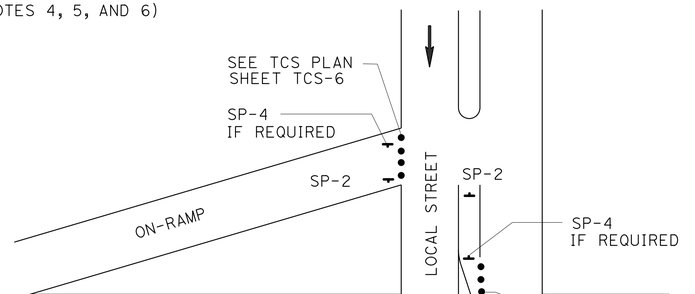
DETAIL A (SEE NOTE 3)



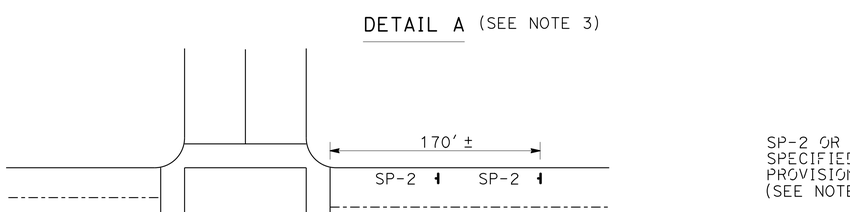
DETAIL B (SEE NOTE 3)



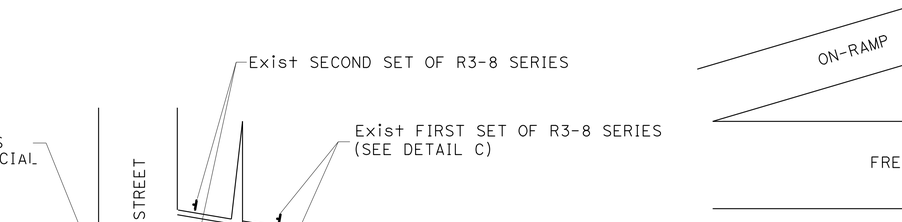
DETAIL C (SEE NOTES 4, 5, AND 6)



DETAIL E



DETAIL D



TYPICAL DETOUR SIGN INSTALLATION AT OFF-RAMP

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.

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**

LAST REVISION DATE PLOTTED => 18-MAR-2013
00-00-00 TIME PLOTTED => 08:27

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Caltrans
FUNCTIONAL SUPERVISOR: JOHN YANG
CALCULATED-DESIGNED BY: ALBERT K YU
CHECKED BY: JOCELYN C CHIANG
REVISED BY: JC
DATE REVISED: 3/12

BORDER LAST REVISED 7/2/2010
USERNAME => s119140
DGN FILE => 71w360me004.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1887
PROJECT NUMBER & PHASE 07000212521

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14,101	Var	11	42

Matt Oregel 2-20-13
REGISTERED CIVIL ENGINEER DATE

3-18-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MARTIN OREGEL
No. C56816
Exp. 6-30-13
CIVIL
STATE OF CALIFORNIA

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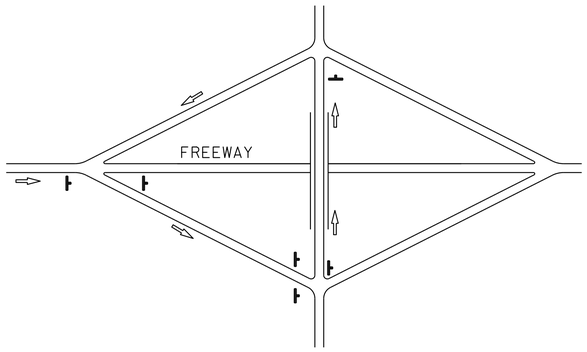
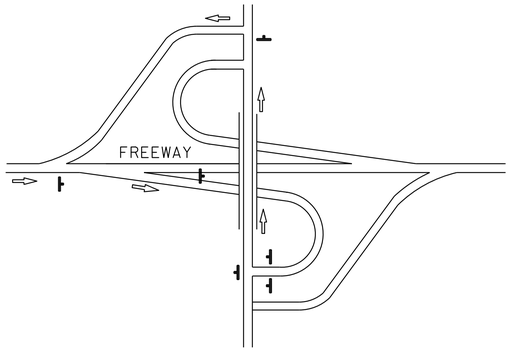
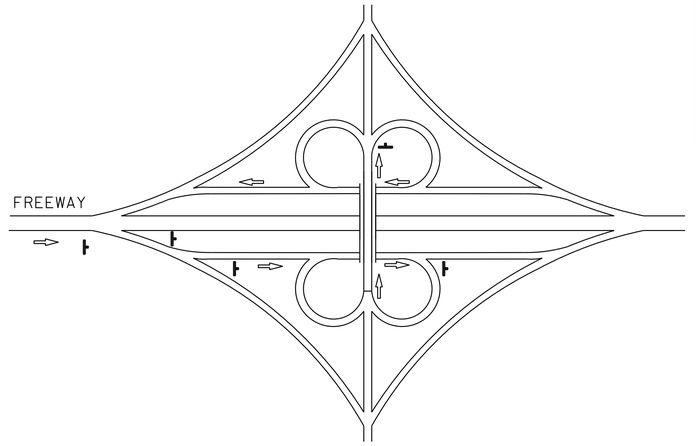


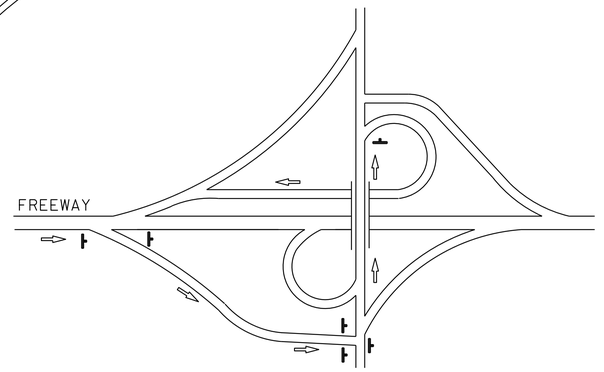
TYPE I



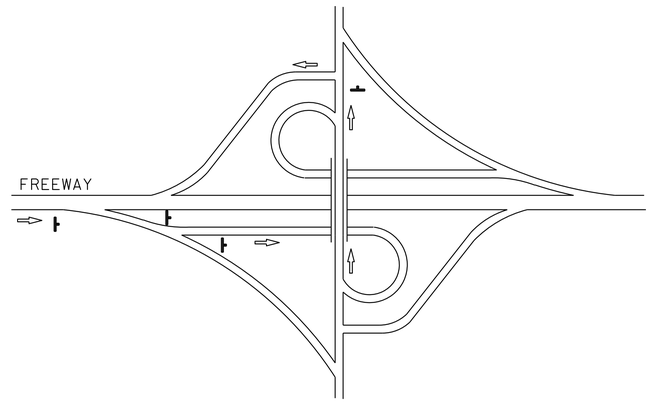
TYPE II



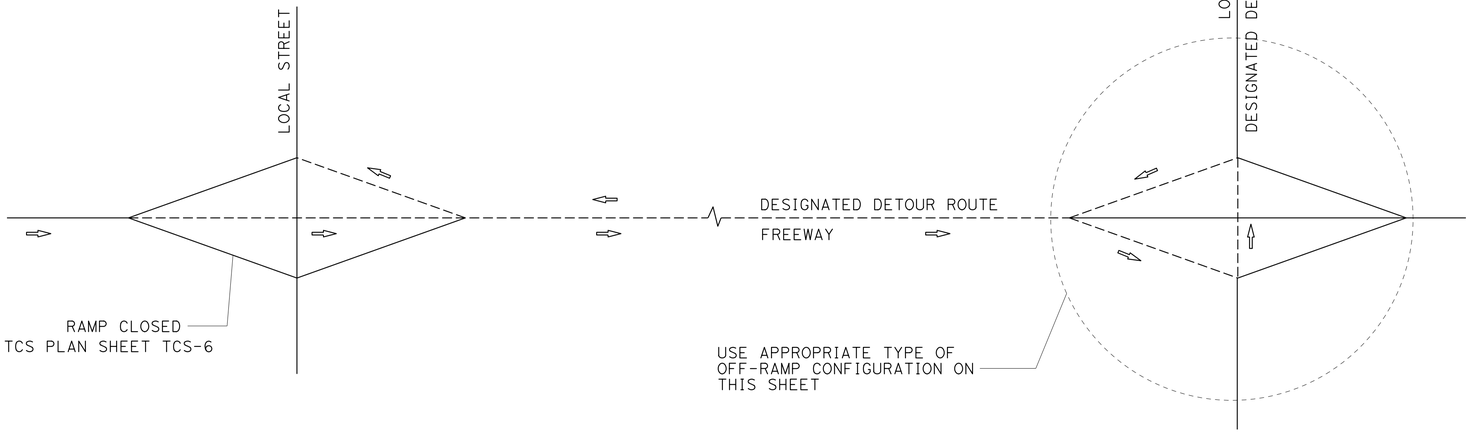
TYPE III



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:

1. FOR RAMP CONFIGURATIONS NOT SHOWN, THE EXACT LOCATIONS AND MINIMUM NUMBER OF SP-2 SIGNS SHALL BE DETERMINED BY THE ENGINEER.
2. 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

CALCULATED-DESIGNED BY			
CHECKED BY	ALBERT K YU	REVISED BY	JC
	JOCELYN C CHIANG	DATE REVISED	3/12
FUNCTIONAL SUPERVISOR	JOHN YANG		

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BORDER LAST REVISED 7/2/2010 | USERNAME => s119140 | DGN FILE => 71w360me005.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1887 | PROJECT NUMBER & PHASE 07000212521

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14,101	Var	12	42

2-20-13
REGISTERED CIVIL ENGINEER DATE

MARTIN OREGEL No. C56816 Exp. 6-30-13 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

3-18-13
PLANS APPROVAL DATE

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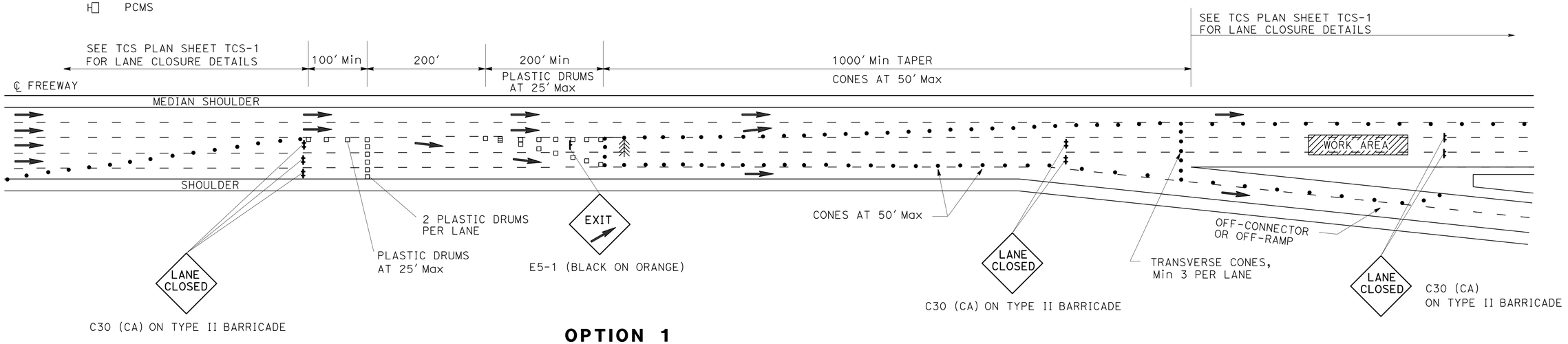
LEGEND

- CONE
- TRAFFIC PLASTIC DRUM
- FLASHING ARROW SIGN
- PORTABLE SIGN
- DIRECTION OF TRAVEL
- PCMS

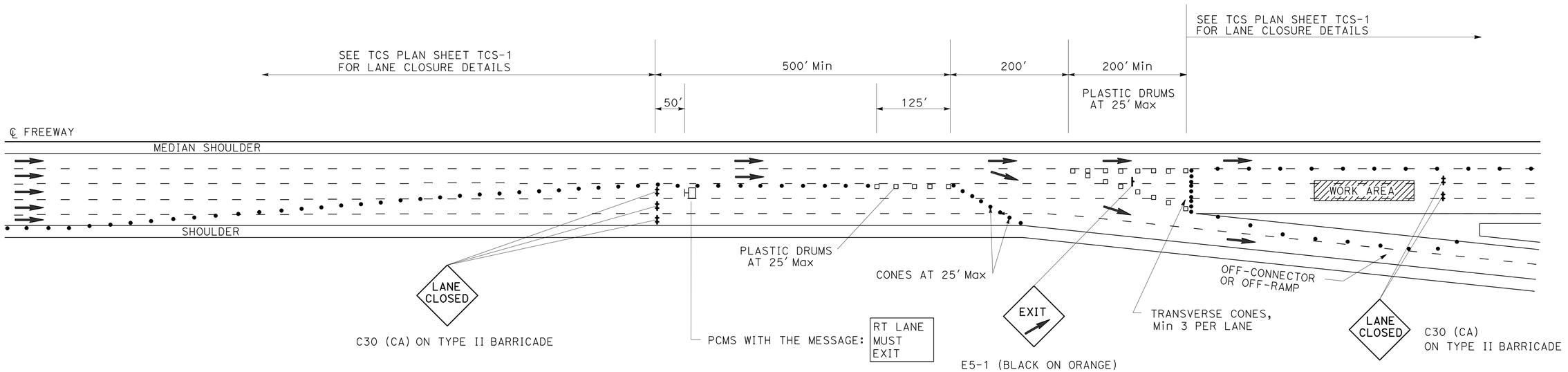
ABBREVIATIONS

(CA) CALIFORNIA CODE

PCMS PORTABLE CHANGEABLE MESSAGE SIGN



OPTION 1



OPTION 2

TRAFFIC HANDLING DETAILS

TRAFFIC CONTROL SYSTEM FOR SLIP-RAMP AT OFF-CONNECTOR OR OFF-RAMP

NO SCALE

THD-6

REVISED BY	JC
DATE REVISED	3/12
CALCULATED-DESIGNED BY	ALBERT K YU
CHECKED BY	JOCELYN C CHIANG
FUNCTIONAL SUPERVISOR	JOHN YANG

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USERNAME => s119140
DGN FILE => 71w360me006.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1887
PROJECT NUMBER & PHASE 07000212521

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14,101	Var	13	42

Matt Oregel 2-20-13
REGISTERED CIVIL ENGINEER DATE

3-18-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MARTIN OREGEL
No. C56816
Exp. 6-30-13
CIVIL
STATE OF CALIFORNIA

NOTES:

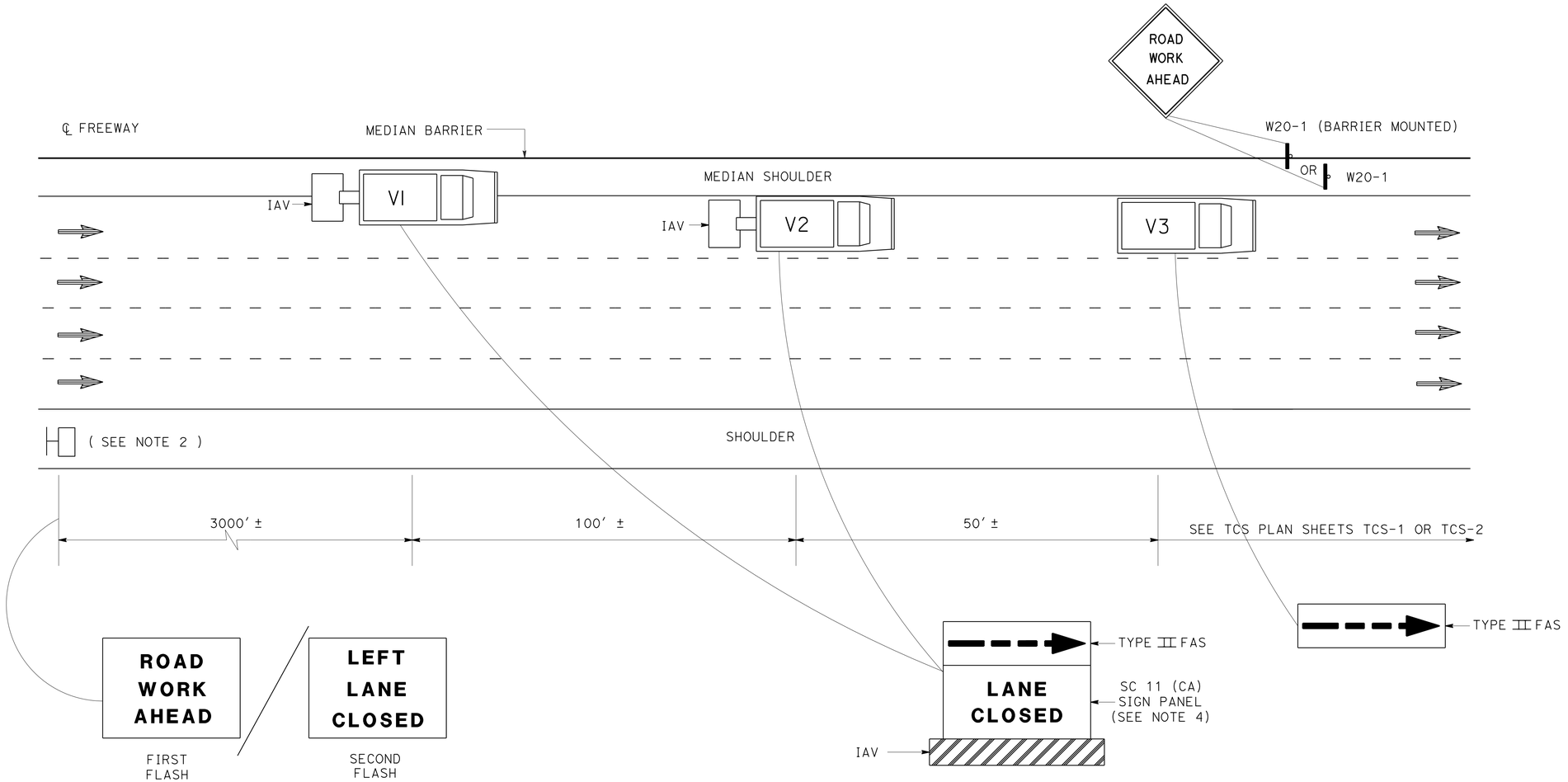
1. LANE CLOSURES SHALL NOT BE PLACED ON CREST VERTICAL CURVES OR ON HORIZONTAL CURVES.
2. PCMS SHALL BE ACTIVATED PRIOR TO TRAFFIC CONTROL ACTIVITIES ON THE LANE.
3. A MINIMUM SIGHT DISTANCE OF 1500' SHALL BE PROVIDED IN ADVANCE OF PCMS.
4. VEHICLE-MOUNTED SIGN PANELS SHALL BE TYPE III OR IV RETROREFLECTORIZED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

LEGEND

V1, V2	SHADOW 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



PCMS OR TRUCK MOUNTED CMS MESSAGE

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

NO SCALE

THD-7

CALCULATED-DESIGNED BY			
CHECKED BY			
REVISED BY	JC		
DATE REVISED	3/12		
ALBERT K YU			
JOCELYN C CHIANG			
FUNCTIONAL SUPERVISOR			
JOHN YANG			
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14,101	Var	14	42

Matt Oregel 2-20-13
REGISTERED CIVIL ENGINEER DATE

3-18-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MARTIN OREGEL
No. C56816
Exp. 6-30-13
CIVIL
STATE OF CALIFORNIA

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NOTES:

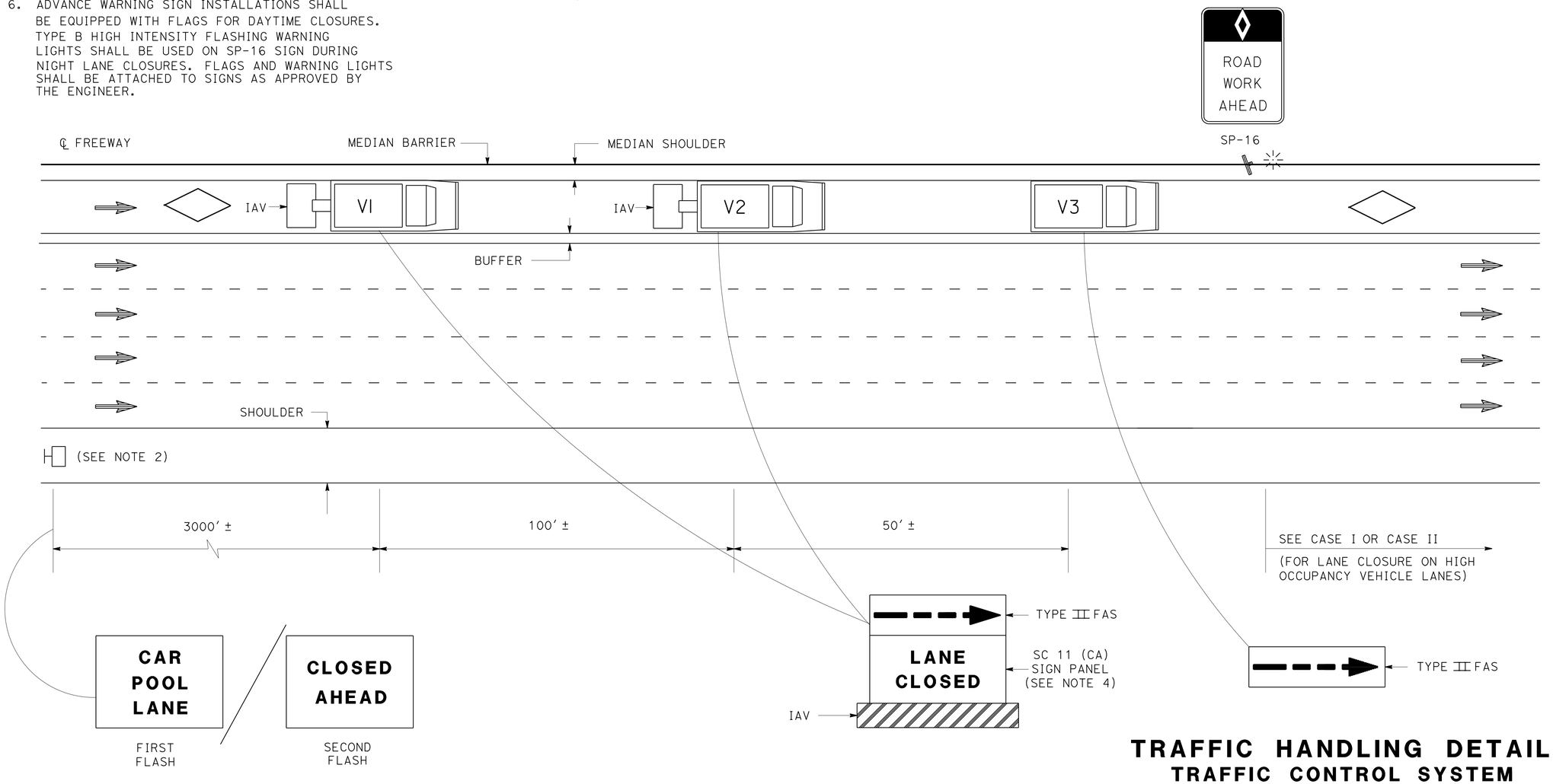
1. LANE CLOSURES SHALL NOT BE PLACED ON CREST VERTICAL CURVES OR ON HORIZONTAL CURVES.
2. PCMS SHALL BE ACTIVATED PRIOR TO TRAFFIC CONTROL ACTIVITIES ON THE HOV LANE.
3. A MINIMUM SIGHT DISTANCE OF 1500' SHALL BE PROVIDED IN ADVANCE OF PCMS.
4. VEHICLE-MOUNTED SIGN PANELS SHALL BE TYPE III OR IV RETROREFLECTORIZED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

LEGEND

V1, V2	SHADOW VEHICLES
V3	WORK/APPLICATION VEHICLE
	PCMS
	DIRECTION OF TRAVEL
	HOV LANE
	FLASHING BEACON

ABBREVIATIONS

FAS	FLASHING ARROW SIGN
IAV	IMPACT ATTENUATOR VEHICLE
CMS	CHANGEABLE MESSAGE SIGN
(CA)	CALIFORNIA CODE
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN
HOV	HIGH OCCUPANCY VEHICLE
CHP	CALIFORNIA HIGHWAY PATROL



PCMS OR TRUCK MOUNTED CMS MESSAGE

(SEE NOTE 5)

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

NO SCALE

THD-8

CALCULATED-DESIGNED BY	ALBERT K YU
CHECKED BY	JOCELYN C CHIANG
REVISED BY	JC
DATE REVISED	3/12
FUNCTIONAL SUPERVISOR	JOHN YANG

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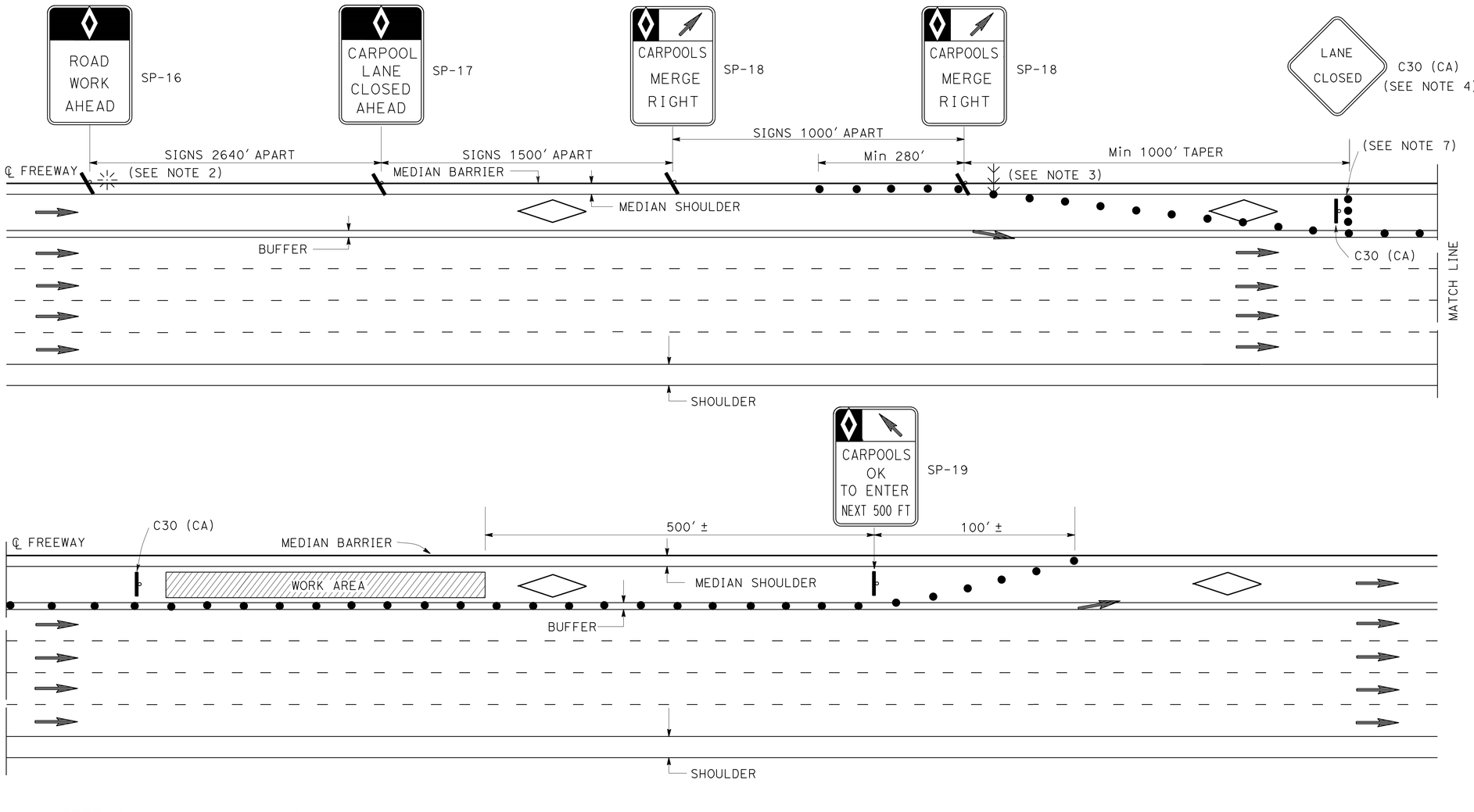
BORDER LAST REVISED 7/2/2010
USERNAME => s119140
DGN FILE => 71w360me008.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1887
PROJECT NUMBER & PHASE 07000212521

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14,101	Var	15	42

REGISTERED CIVIL ENGINEER — 2-20-13 DATE

3-18-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MARTIN OREGEL — No. C56816 — Exp. 6-30-13 — CIVIL — STATE OF CALIFORNIA



LEGEND

- CONE
- FLASHING BEACON
- HOV LANE
- FLASHING ARROW SIGN
- PORTABLE SIGN
- DIRECTION OF TRAVEL

ABBREVIATIONS

(CA)	CALIFORNIA CODE
HOV	HIGH OCCUPANCY VEHICLE

SIGN PANEL

SIZE (MIN)

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

NOTES: (FOR CASE I AND CASE II)

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

TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM FOR HIGH OCCUPANCY VEHICLE LANES AT NON-INGRESS/EGRESS AREAS
CASE I

NO SCALE

THD-9

CALCULATED-DESIGNED BY			
CHECKED BY	JC	3/12	
	ALBERT K YU		
	JOCELYN C CHIANG		
FUNCTIONAL SUPERVISOR	JOHN YANG		
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DTM		
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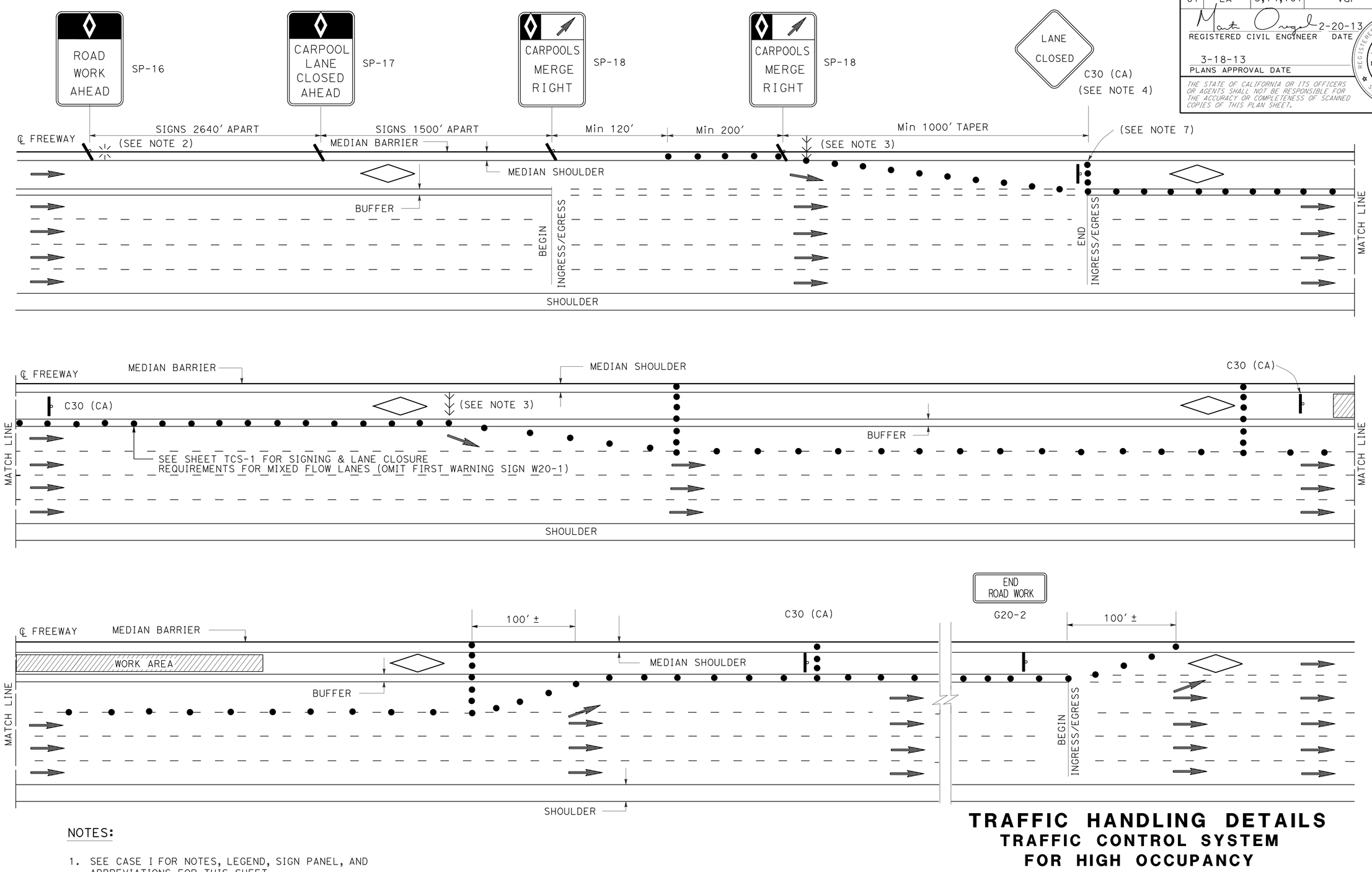
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14,101	Var	16	42

REGISTERED CIVIL ENGINEER — 2-20-13 DATE

3-18-13
PLANS APPROVAL DATE

MARTIN OREGEL No. C56816 Exp. 6-30-13 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA



NOTES:

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

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

NO SCALE

THD-10

REVISED BY	DATE REVISED
JC	3/12

CALCULATED-DESIGNED BY: ALBERT K YU
CHECKED BY: JOCELYN C CHIANG
FUNCTIONAL SUPERVISOR: JOHN YANG

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DTM
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LAST REVISION: DATE PLOTTED => 18-MAR-2013
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14,101	Var	17	42

Mat Oregel 2-20-13
REGISTERED CIVIL ENGINEER DATE

3-18-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MARTIN OREGEL
No. C56816
Exp. 6-30-13
CIVIL
STATE OF CALIFORNIA

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NOTES:

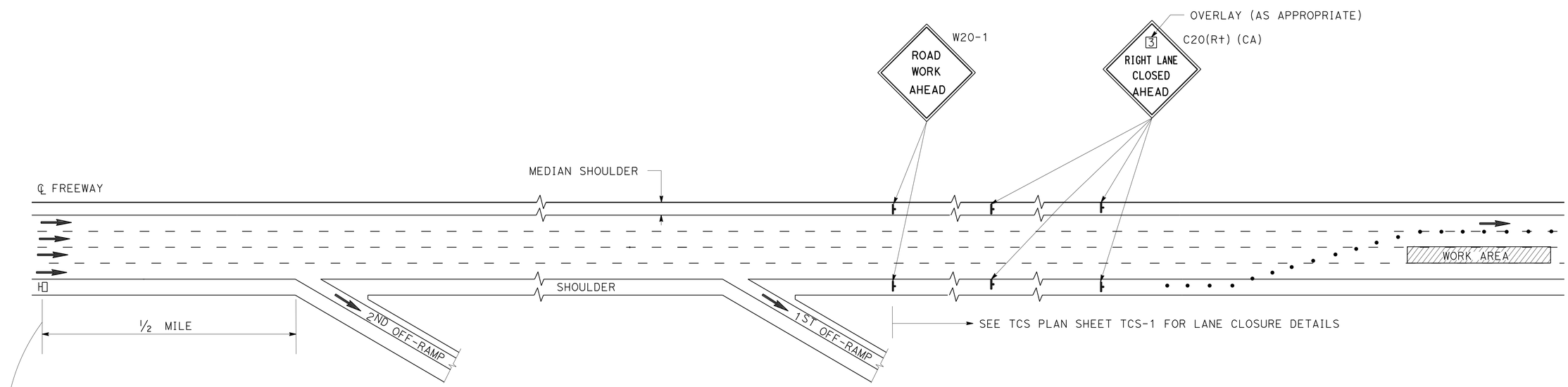
1. EXACT LOCATION OF PCMS WILL BE DETERMINED BY THE ENGINEER TO PROVIDE ADEQUATE VISIBILITY.
2. PCMS MESSAGE DISPLAYED WILL BE APPROVED BY THE ENGINEER.
3. PCMS MESSAGE SHALL BE CHANGED AT THE BEGINNING OF CURE PERIOD TO REFLECT NUMBER OF CLOSED LANES.

ABBREVIATIONS

PCMS PORTABLE CHANGEABLE MESSAGE SIGN
(CA) CALIFORNIA CODE

LEGEND

- CONE
- PORTABLE SIGN
- DIRECTION OF TRAVEL
- PCMS



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-11

CALCULATED-DESIGNED BY			
CHECKED BY			
REVISED BY	JC		
DATE REVISED	3/12		
ALBERT K YU			
JOCELYN C CHIANG			
FUNCTIONAL SUPERVISOR			
JOHN YANG			

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14,101	Var	18	42

Matt Oregel 2-20-13
REGISTERED CIVIL ENGINEER DATE

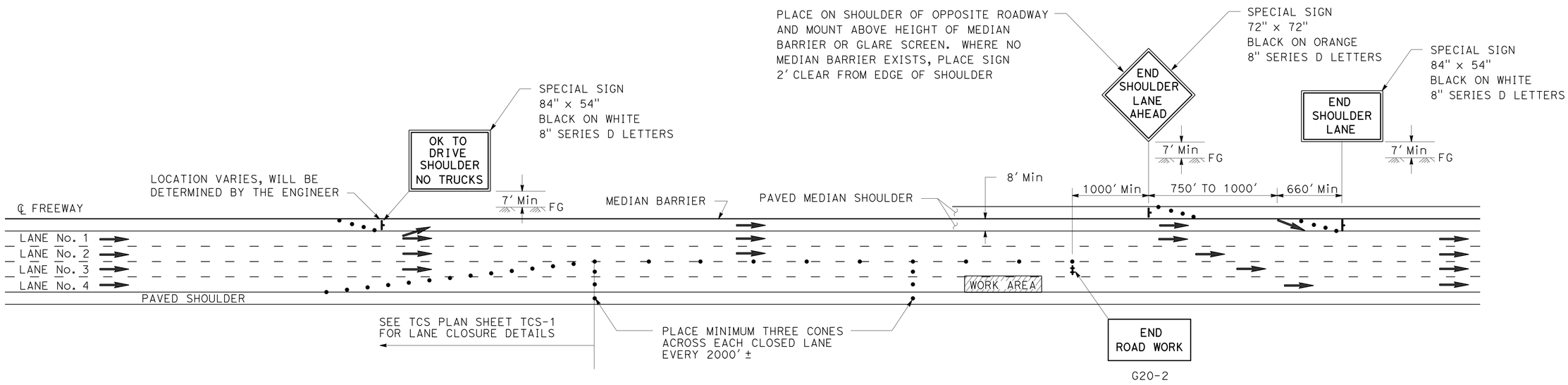
3-18-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MARTIN OREGEL
No. C56816
Exp. 6-30-13
CIVIL
STATE OF CALIFORNIA

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

LEGEND

- CONE
- PORTABLE SIGN
- DIRECTION OF TRAVEL



TRAFFIC HANDLING DETAILS

TRAFFIC CONTROL SYSTEM FOR MEDIAN SHOULDERS TO BE USED AS A TRAFFIC LANE

NO SCALE

THD-12

CALCULATED-DESIGNED BY	ALBERT K YU	
CHECKED BY	JOCELYN C CHIANG	
REVISED BY	JC	
DATE REVISED	3/12	
FUNCTIONAL SUPERVISOR	JOHN YANG	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DTM
Caltrans

LAST REVISION | DATE PLOTTED => 18-MAR-2013
00-00-00 | TIME PLOTTED => 08:27

BORDER LAST REVISED 7/2/2010 | USERNAME => s119140 | DGN FILE => 71w360me012.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1887 | PROJECT NUMBER & PHASE 07000212521

NOTE:

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14,101	Var	19	42

2-22-13
REGISTERED CIVIL ENGINEER DATE

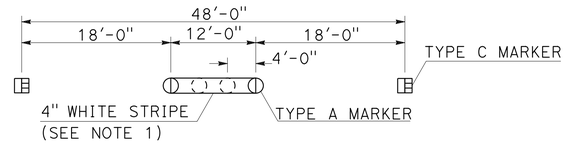
BIPIN PATEL No. C60082 Exp 6-30-14 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

3-18-13
PLANS APPROVAL DATE

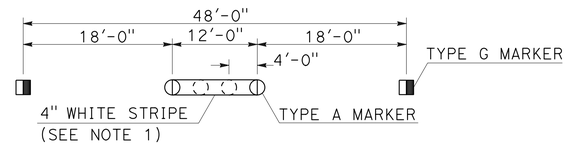
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

PAVEMENT DELINEATION QUANTITIES

LOCATION	ROUTE	PM	BRIDGE No.	BRIDGE NAME	DIRECTION	THERMOPLASTIC TRAFFIC STRIPE			PAVEMENT MARKER				REMOVE			
						DETAIL 25	DETAIL 27B	DETAIL 13/14 (Mod)	DETAIL 13/14 (Mod)	DETAIL 25						
						4" SOLID YELLOW	4" SOLID WHITE	4" BROKEN WHITE (36 - 12)	TYPE A NON-REFLECTIVE	TYPE G NON-REFLECTIVE	PAVEMENT MARKER RETRO-REFLECTIVE TYPE H	THERMOPLASTIC PAVEMENT MARKING	PAVEMENT MARKER	YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)	THERMOPLASTIC TRAFFIC STRIPE	THERMOPLASTIC PAVEMENT MARKING
						LF	LF	LF	EA	EA	EA	SQFT	EA	LF	LF	SQFT
1	5	34.99	53-1118	LANKERSHIM Blvd OC			720	850	74	18		42	96			42
2	5	35.35	53-1119	PEORIA St OC			560	280	28	6		56	34			56
4	5	39.05	53-1127	PAXTON St UC	NB	150	900	450	78	40	8		126	150	1014	
					SB	150	600	600	52	28	8		88	150	750	
6	5	C45.49	53-0848G	N5TRK-N14 CONNECTOR OC		250	600	500	52	28	13		93	250	725	
7	5	C45.74	53-1936G	N5TRK-N14 CONNECTOR	NB	200	500	400	44	24	11		79	200	600	
8	5	C45.75	53-0849K	WELDON CANYON OH		250	600	500	52	28	13		93	250	725	
9	5	R47.83	53-2790L	GAVIN CANYON UC	NB	850	1700	2550	146	74	38		258	850	2338	
					SB	850	1700	2550	146	74	38		258	850	2338	
10	5	R59.95	53-1902L	S5-N5 SEPERATION		560	1120	1680	40	36			76			
11	14	R48.61	53-0868L	CROWN VALLEY Rd UC	EB	525	350	175	32	16	24		72	525	396	
12	14	R48.68	53-0868R	CROWN VALLEY Rd UC	WB	525	350	175	32	16	24		72	525	396	
13	14	R54.50	53-1004S	SIERRA Hwy UC		400	800	400	70	36	20		126	400	900	
15	14	R61.53	53-2377L	SOUTH MARGOSA CREEK	SB	200	400	400	36	18	10		64	200	500	
16	14	R67.95	53-2384L	AVENUE "J" UC	NB	200	400	400	36	18	10		64	200	500	
17	14	R67.95	53-2384R	AVENUE "J" UC	SB	200	400	400	36	18	10		64	200	500	
18	101	5.81	53-0676	WESTERN Ave OC		340	430	600	38	20	18		76	340	580	
19	101	8.05	53-0468	PILGRIMAGE OC		280	150		15	8	14	30	37	280	150	30
20	101	11.75	53-1336R	101/134/170 SEPARATION			1560	3120	264	66			330			
SUBTOTAL						5,930	13,840	16,030	1,007	572	259	128	2,106	5,370	12,412	128
TOTAL						19,770		16,030	1,579		259	128	2,106	5,370	12,412	128



DETAIL 14 (MODIFIED)



DETAIL 13 (MODIFIED)

PAVEMENT DELINEATION QUANTITIES

PDQ-1

CALCULATED-DESIGNED BY: DINESH BHAVSAR
CHECKED BY: JOHN ZAKI
REVISED BY / DATE REVISED
FUNCTIONAL SUPERVISOR: BIPIN PATEL
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE ENGINEERING

LAST REVISION 00-00-00 | DATE PLOTTED => 18-MAR-2013 | TIME PLOTTED => 08:27

BORDER LAST REVISED 7/2/2010 | USERNAME => s119140 | DGN FILE => 71w360nc001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1964 | PROJECT NUMBER & PHASE 07000212521

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14,101	Var	20	42

REGISTERED CIVIL ENGINEER — 12-7-12 DATE

3-18-13
PLANS APPROVAL DATE

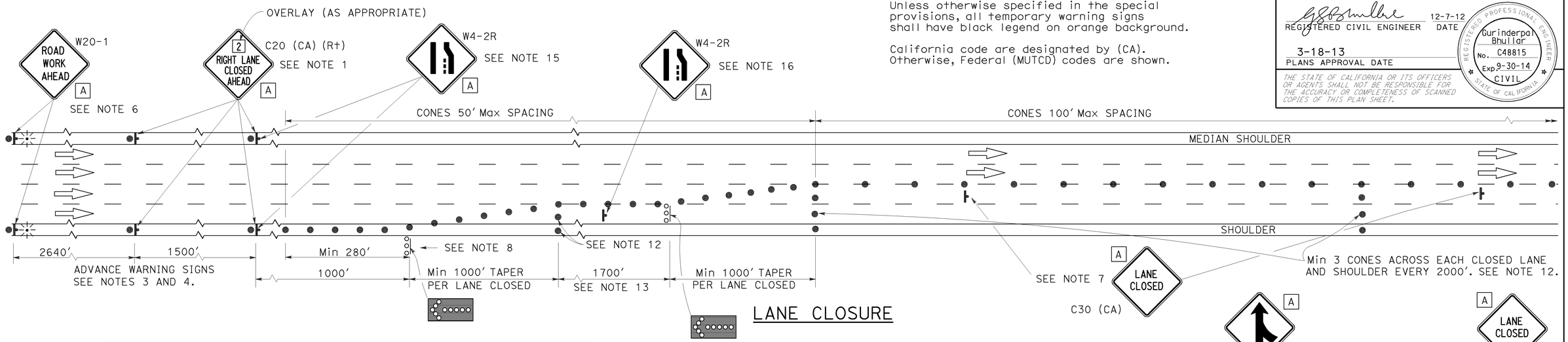
Gurinderpal Bhullar
No. C48815
Exp 9-30-14
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

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

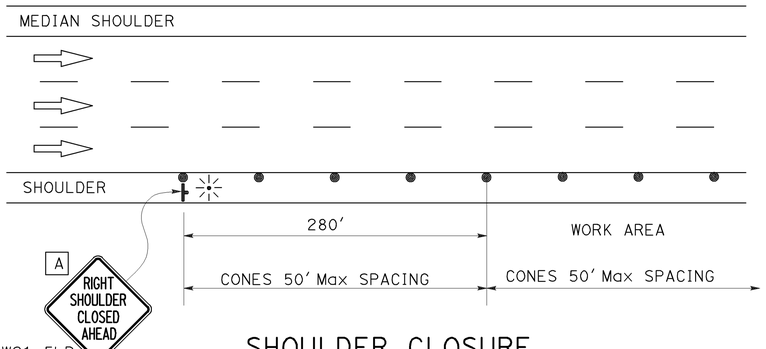
NOTES:

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

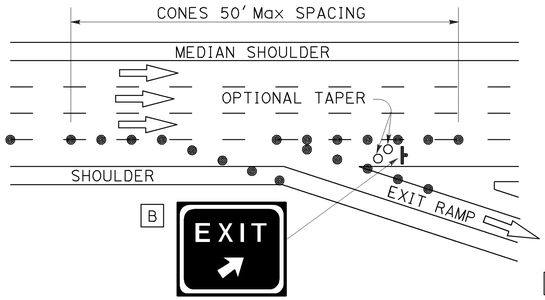
California code are designated by (CA).
Otherwise, Federal (MUTCD) codes are shown.



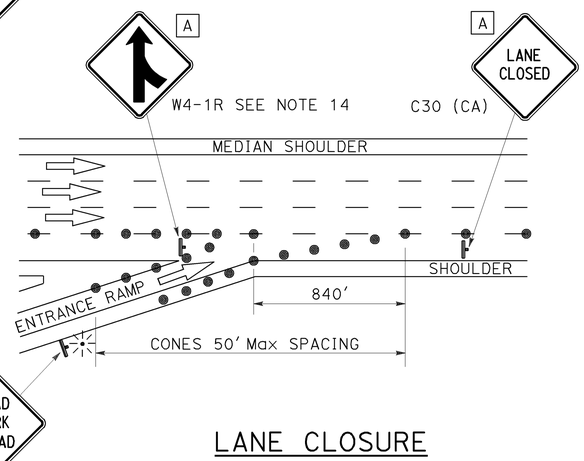
LANE CLOSURE



SHOULDER CLOSURE



LANE CLOSURE AT EXIT RAMP



LANE CLOSURE AT ENTRANCE RAMP

NOTES:

1. Median lane closures shall conform to the details for outside lane closures except that C20 (CA) (Lt) signs shall be used.
2. At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
3. Duplicate sign installations are not required:
   a) On opposite shoulder if at least one-half of the available lanes remain open to traffic.
   b) In the median if the width of the median shoulder is less than 8' and the outside lanes are to be closed.
4. Each advance warning sign on each side of the roadway shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
5. A 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.
6. 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.
7. Place a C30 (CA) sign every 2000' throughout length of lane closure.
8. 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.
9. A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at top of crest vertical curve or on a horizontal curve.
10. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
11. Portable delineators, placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.
12. Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000' as shown on the "Lane Closure" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
13. Unless otherwise specified in the special provisions, the 1700' tangent shown along lane lines shall be used between the 1000' tapers required for each closed traffic lane.
14. Unless otherwise specified in the special provisions, the G84 (CA) and W4-1 signs shall be used as shown.
15. 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.
16. 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" × 48"
- B — 54" × 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

REVISED BY | DATE REVISED
CALCULATED- | DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14,101	Var	21	42

REGISTERED CIVIL ENGINEER — 12-7-12 DATE

Gurinderpal Bhullar No. C48815 Exp 9-30-14 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

3-18-13
PLANS APPROVAL DATE

REVISED BY | DATE REVISED

CALCULATED- | DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

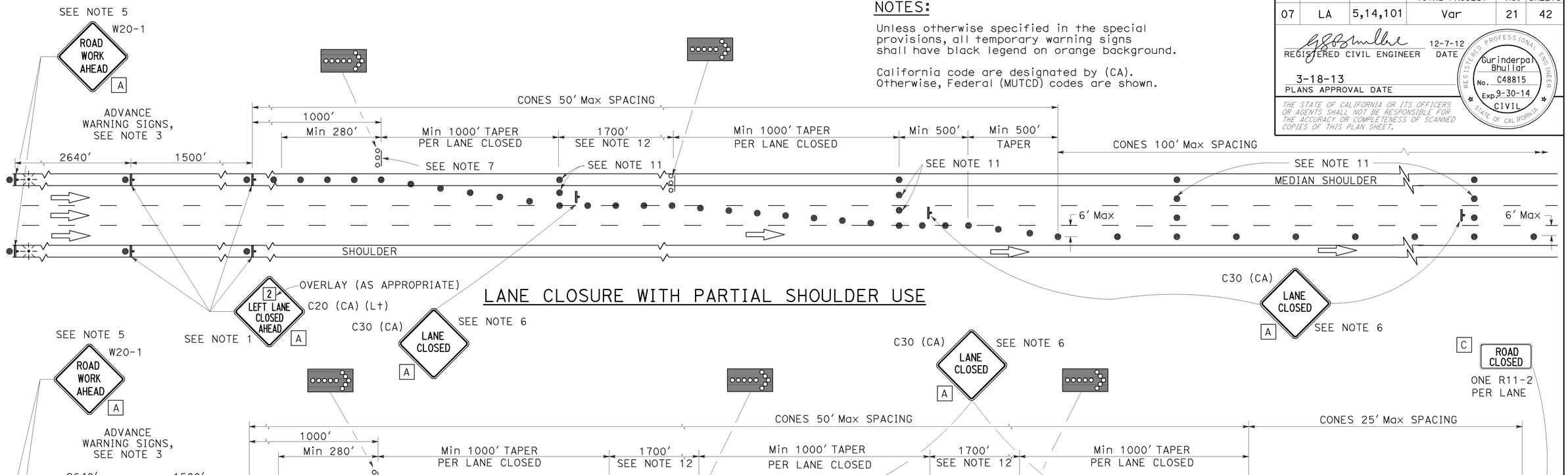
Caltrans

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

LEGEND

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

NOTES:

1. 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.
2. At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
3. 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.
4. A C14 (CA) "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within a larger project's limits.
5. If the W20-1 sign would follow within 2000′ of a stationary W20-1 or C11 (CA) "ROAD WORK NEXT ___ MILES", use a C20 (CA) sign for the first advance warning sign.
6. Place a C30 (CA) sign every 2000′ throughout length of lane closure.
7. 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.
8. 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.
9. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
10. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
11. 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.
12. 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.
13. 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.
14. 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"

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

NO SCALE

TCS-2

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

BORDER LAST REVISED 7/2/2010 | USERNAME => s114640 | DGN FILE => tcs10a.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1964 | PROJECT NUMBER & PHASE 07000212521

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14,101	Var	22	42

REGISTERED CIVIL ENGINEER — 12-7-12 DATE

3-18-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Gurinderpal Bhullar — No. C48815 — Exp 9-30-14 — CIVIL — STATE OF CALIFORNIA

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TYPICAL LANE CLOSURE

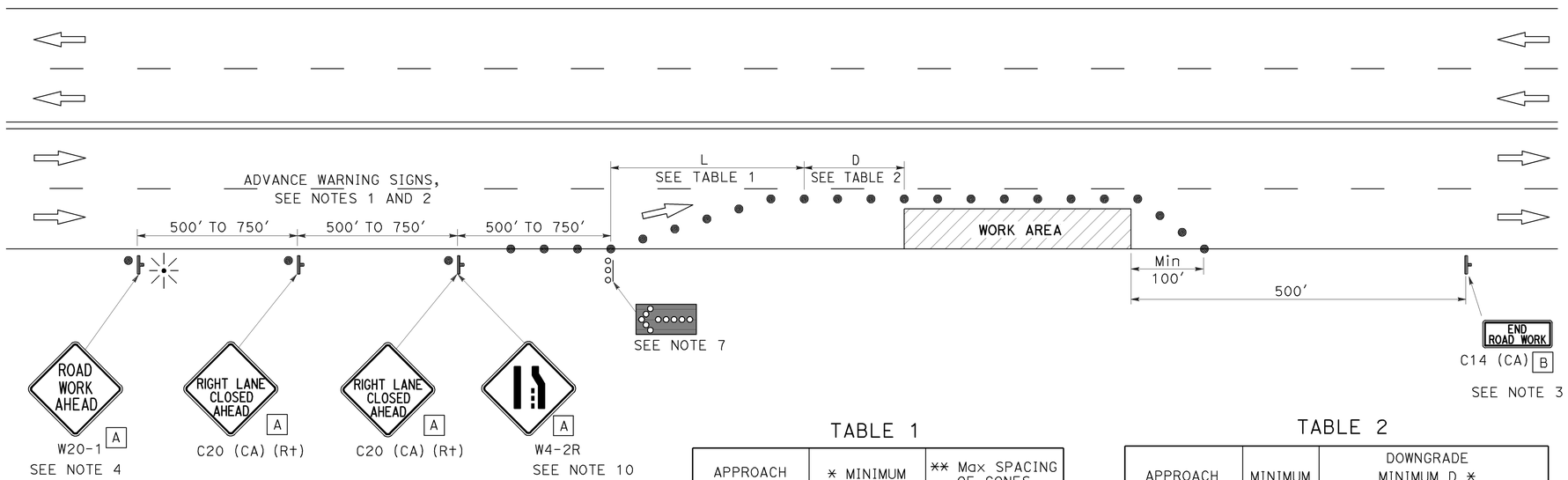


TABLE 1

APPROACH SPEED	* MINIMUM L	** Max SPACING OF CONES ALONG TAPER
mph	ft	ft
20 AND BELOW	80	20
25	125	25
30	180	30
35	245	35
40	320	40
45	540	45
50	600	50
Over 50	SEE NOTE 9	

* USE L FOR LANE WIDTHS LESS THAN OR EQUAL TO 12'.
** SEE NOTE 8.

TABLE 2

APPROACH SPEED	MINIMUM D	DOWNGRADE MINIMUM D *		
		-3%	-6%	-9%
mph	ft	ft	ft	ft
25 AND BELOW	155	158	165	173
30	200	205	215	227
35	250	257	271	287
40	305	315	333	354
45	360	378	400	427
50	425	446	474	507
OVER 50	SEE NOTE 9			

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

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.

LEGEND

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

SIGN PANEL SIZE (Min)

- A 36" x 36"
- B 36" x 18"

NOTES:

1. Where approach speeds are low, advance warning signs may be placed at 300' spacing and placed closer in urban areas.
2. Each advance warning sign shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
3. 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.
4. 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.
5. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
6. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
7. Flashing arrow sign shall be either Type I or Type II.
8. The maximum spacing between cones along a tangent shall be 50' and along a taper shall be approximately as shown in Table 1.
9. For approach speeds over 50 mph, use the "Traffic Control System for Lane Closure On Freeways And Expressways" plan for lane closure details and requirements.
10. When specified in the special provisions, a W4-2 "LANE ENDS" symbol sign is to be used in place of the C20 (CA) "RIGHT LANE CLOSED AHEAD" sign.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON MULTILANE CONVENTIONAL HIGHWAYS

NO SCALE

TCS-3

REVISED BY | DATE REVISED
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

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

BORDER LAST REVISED 7/2/2010 | USERNAME => s114640 | DGN FILE => tcs11.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1964 | PROJECT NUMBER & PHASE 07000212521

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14,101	Var	23	42

REGISTERED CIVIL ENGINEER — 12-7-12 DATE

Gurinderpal Bhullar No. C48815 Exp 9-30-14 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

3-18-13
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.

REVISED BY | DATE REVISED

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans®

LEGEND

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

TABLE 1

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

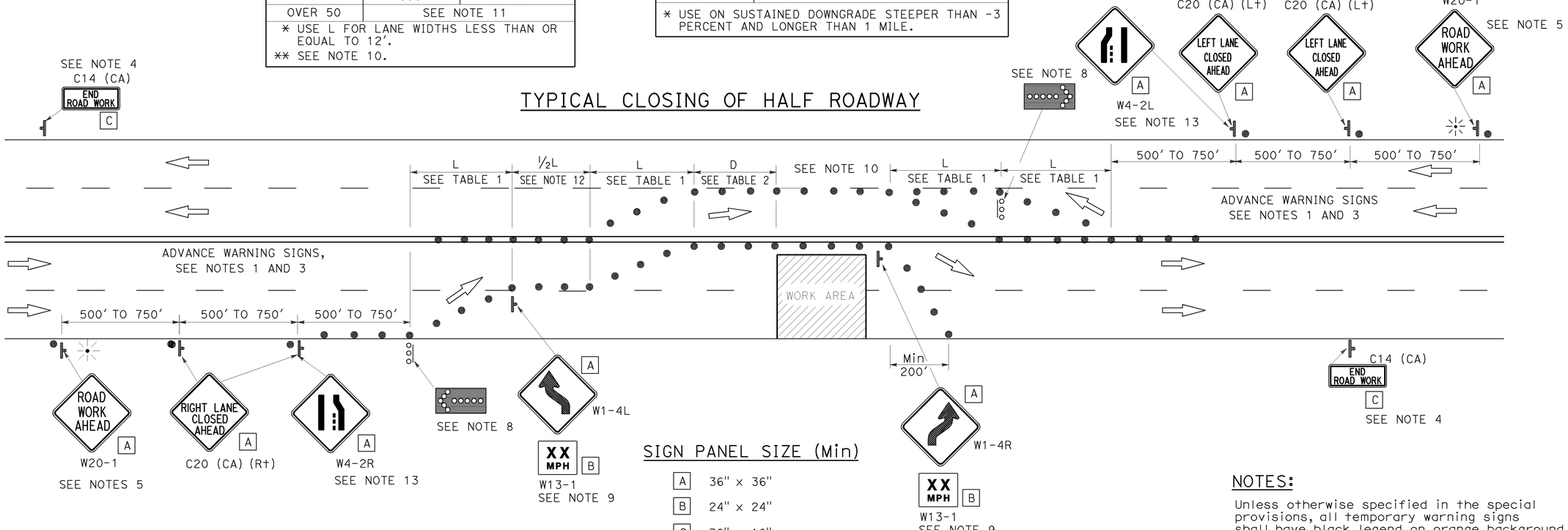
* USE L FOR LANE WIDTHS LESS THAN OR EQUAL TO 12′.
** SEE NOTE 10.

TABLE 2

APPROACH SPEED	MINIMUM D	DOWNGRADE MINIMUM D *		
		-3%	-6%	-9%
mph	ft	ft	ft	ft
25 AND BELOW	155	158	165	173
30	200	205	215	227
35	250	257	271	287
40	305	315	333	354
45	360	378	400	427
50	425	446	474	507
OVER 50	SEE NOTE 11			

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

TYPICAL CLOSING OF HALF ROADWAY



SIGN PANEL SIZE (Min)

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

NOTES:

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

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

NOTES:

1. Where Approach speeds are low, advance warning signs may be placed at 300′ spacing and placed closer in urban areas.
2. At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closure unless, otherwise directed by the Engineer.
3. Each advance warning sign in each direction of travel shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
4. A C14 (CA) "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious, or ends within a larger project's limits.
5. If the W20-1 sign would follow within 2000′ of a stationary W20-1 or C11 (CA) "ROAD WORK NEXT _____ MILES", use a C20 (CA) sign for the first advance warning sign.
6. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
7. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
8. Flashing arrow signs shall be either Type I or Type II.
9. Advisory speed will be determined by the Engineer. The W13-1 Sign will not be required when advisory speed is more than the posted or maximum speed limit.
10. The maximum spacing between cones along a tangent shall be 50′ and along a taper shall be approximately as shown in Table 1.
11. For approach speeds over 50 mph, use the "Traffic Control System For Lane Closure On Freeways And Expressways" plan for lane closure details and requirements.
12. Unless otherwise specified in the special provisions, the (½ L) shown between the two (L) lane closure tapers shall be used.
13. When specified in the special provisions, a W4-2 "Lane Ends" symbol sign is to be used in place of the C20 (CA) "RIGHT (LEFT) LANE CLOSED AHEAD" sign.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON MULTILANE CONVENTIONAL HIGHWAYS

NO SCALE

TCS-4

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14,101	Var	24	42

REGISTERED CIVIL ENGINEER — 12-7-12 DATE

Gurinderpal Bhullar, No. C48815, Exp 9-30-14, CIVIL, REGISTERED PROFESSIONAL ENGINEER, STATE OF CALIFORNIA

3-18-13
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.

REVISED BY | DATE REVISED | CALCULATED-DESIGNED BY | CHECKED BY | FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

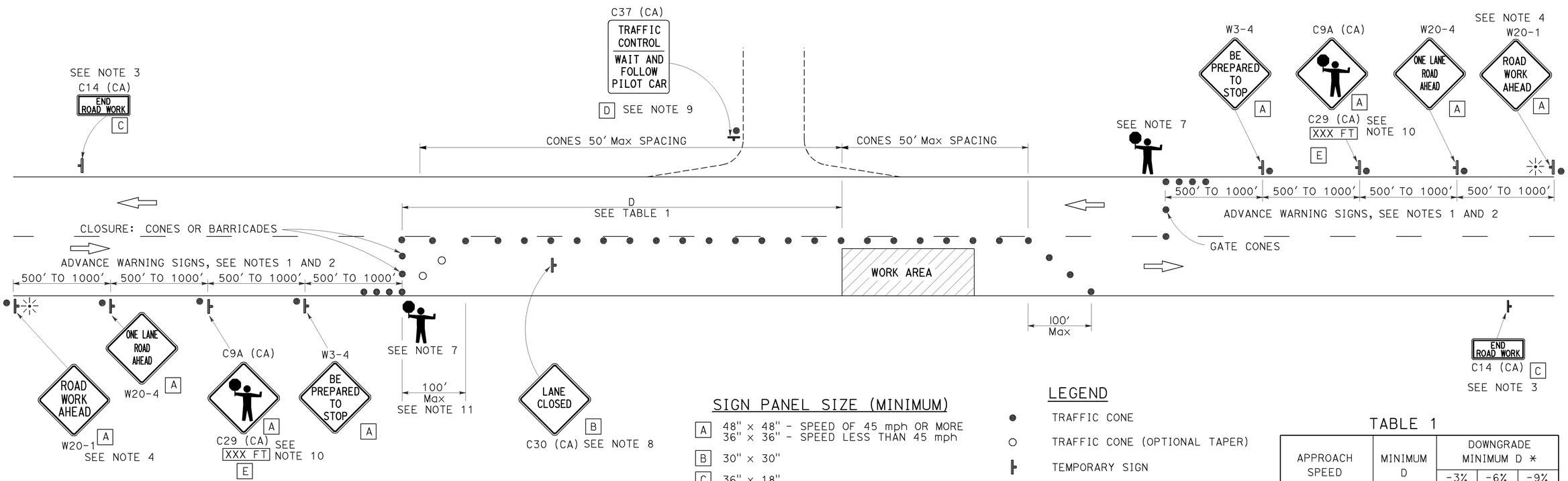
Caltrans

NOTES:

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

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

TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL



SIGN PANEL SIZE (MINIMUM)

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

LEGEND

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

TABLE 1

APPROACH SPEED	MINIMUM D	DOWNGRADE MINIMUM D *		
		-3%	-6%	-9%
mph	ft	ft	ft	ft
25 AND BELOW	155	158	165	173
30	200	205	215	227
35	250	257	271	287
40	305	315	333	354
45	360	378	400	427
50	425	446	474	507
55	495	520	553	593
60	570	598	638	686
65	645	682	728	785

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

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON TWO LANE CONVENTIONAL HIGHWAYS

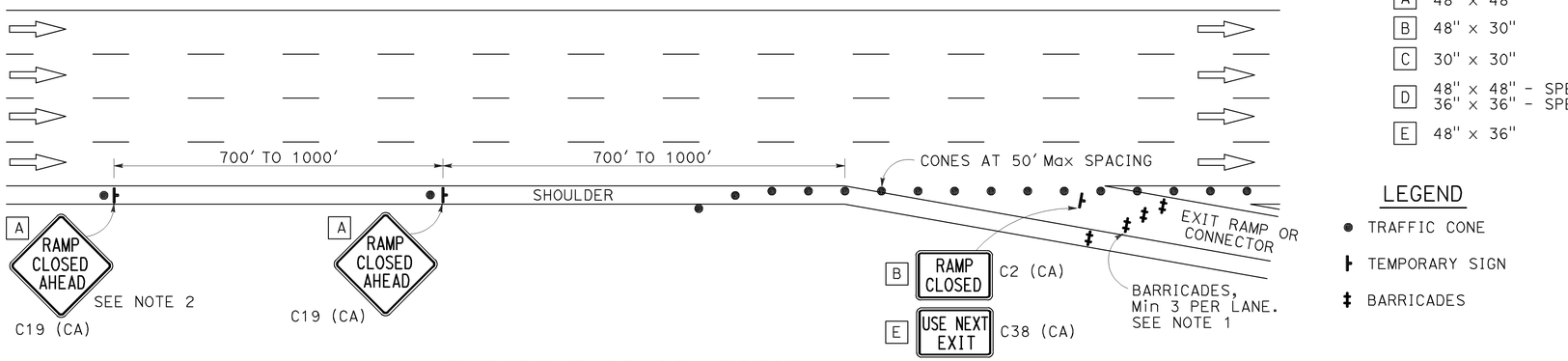
NO SCALE

TCS-5

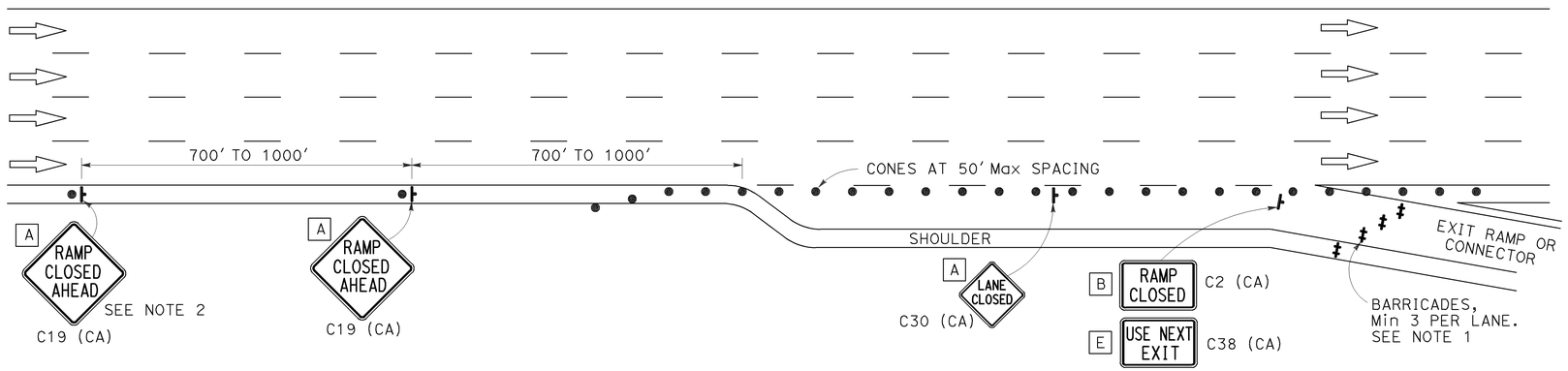
LAST REVISION | DATE PLOTTED => 10-DEC-2012 | TIME PLOTTED => 09:45 | 00-00-00

BORDER LAST REVISED 7/2/2010 | USERNAME => s114640 | DGN FILE => tcs13.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1964 | PROJECT NUMBER & PHASE 07000212521

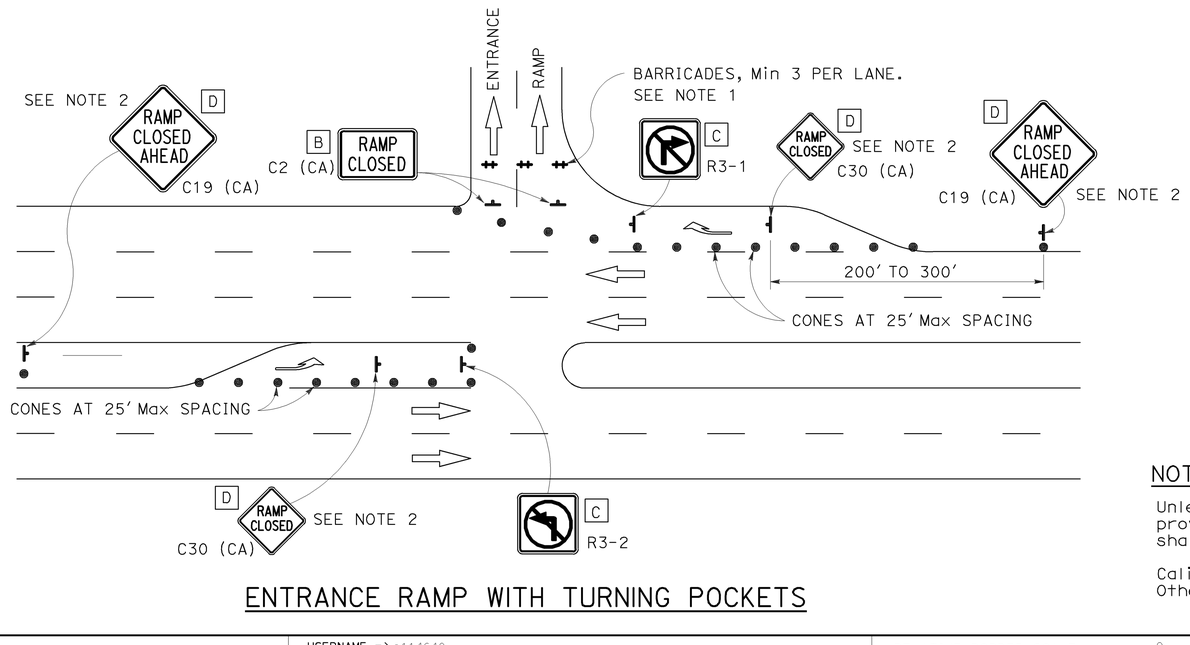
TYPICAL RAMP CLOSURES



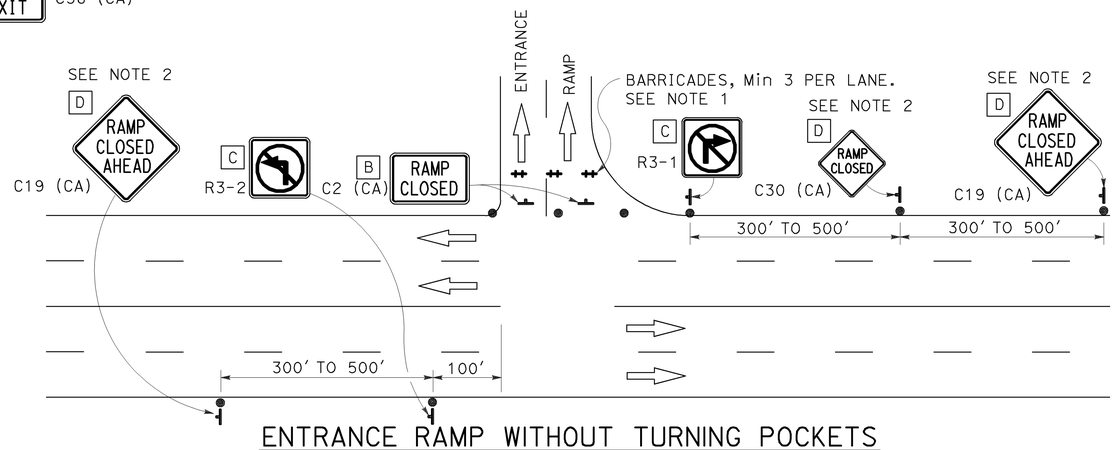
EXIT RAMP OR CONNECTOR



EXIT RAMP OR CONNECTOR WITH ADDITIONAL LANE



ENTRANCE RAMP WITH TURNING POCKETS



ENTRANCE RAMP WITHOUT TURNING POCKETS

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"

LEGEND

- TRAFFIC CONE
- TEMPORARY SIGN
- BARRICADES

NOTES:

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

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.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14,101	Var	25	42

REGISTERED CIVIL ENGINEER — 12-7-12 DATE

3-18-13
PLANS APPROVAL DATE

Gurinderpal Bhullar No. C48815 Exp 9-30-14 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURE

NO SCALE

TCS-6

REVISED BY | DATE REVISED | CALCULATED-DESIGNED BY | CHECKED BY | FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

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

BORDER LAST REVISED 7/2/2010 | USERNAME => s114640 | DGN FILE => tcs14.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1964 | PROJECT NUMBER & PHASE 07000212521

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14,101	Var	26	42

Roberta L. McLaughlin
REGISTERED CIVIL ENGINEER

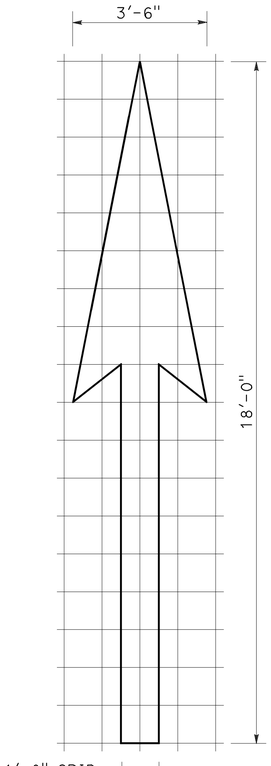
April 20, 2012
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Roberta L. McLaughlin
No. C40375
Exp. 3-31-13
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.

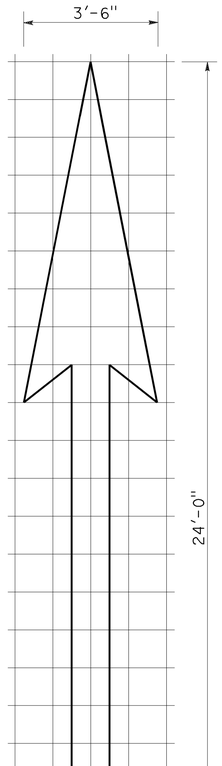
TO ACCOMPANY PLANS DATED 3-18-13

2010 REVISED STANDARD PLAN RSP A24A



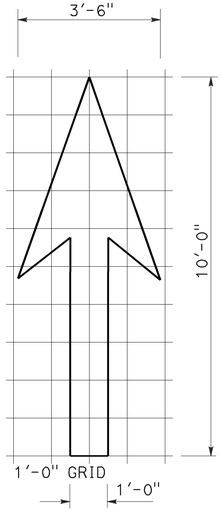
A=25 ft²

TYPE I 18'-0" ARROW



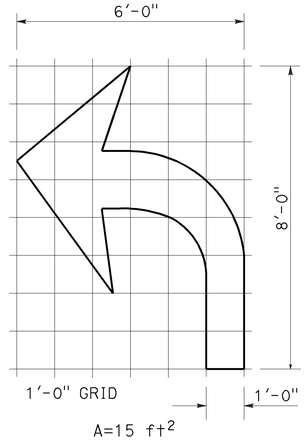
A=31 ft²

TYPE I 24'-0" ARROW



A=14 ft²

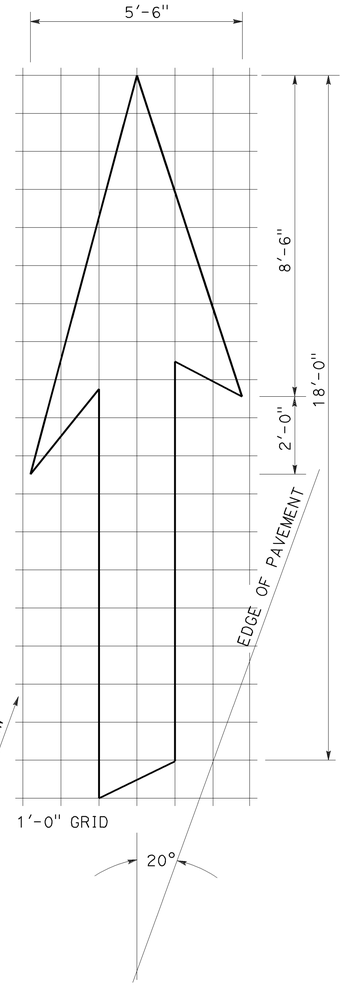
TYPE I 10'-0" ARROW



A=15 ft²

TYPE IV (L) ARROW

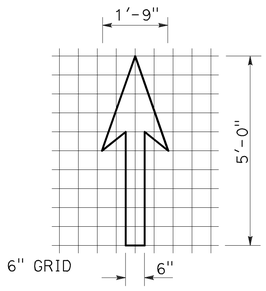
(For Type IV (R) arrow, use mirror image)



A=42 ft²

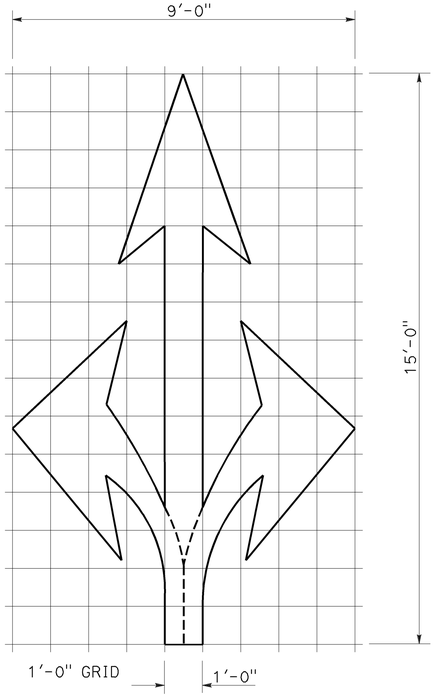
TYPE VI ARROW

Right lane drop arrow (For left lane, use mirror image)



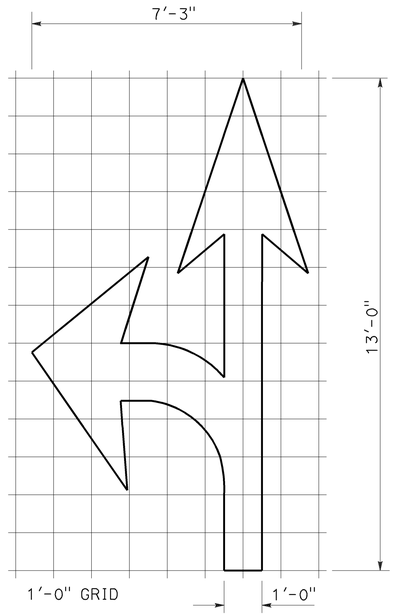
A=3.5 ft²

BIKE LANE ARROW



A=36 ft²

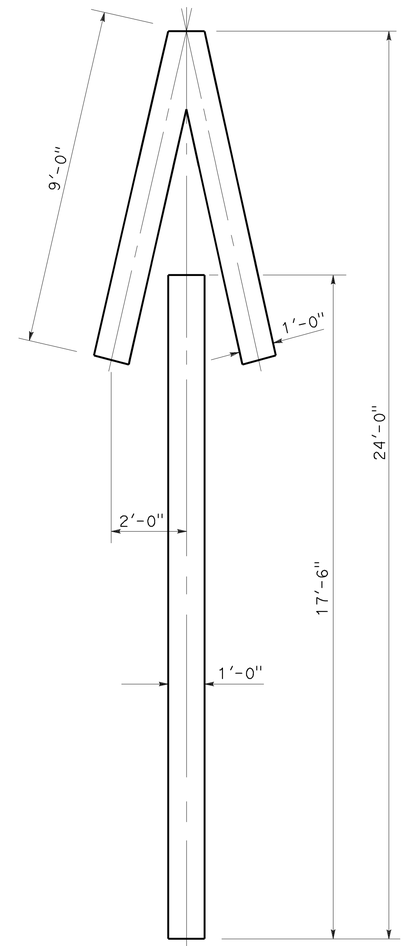
TYPE VIII ARROW



A=27 ft²

TYPE VII (L) ARROW

(For Type VII (R) arrow, use mirror image)



A=33 ft²

TYPE V ARROW

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

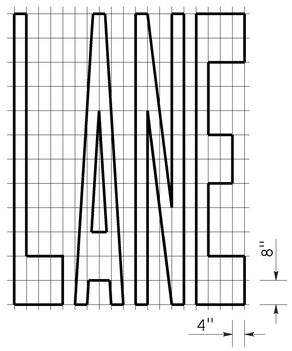
PAVEMENT MARKINGS ARROWS

NO SCALE

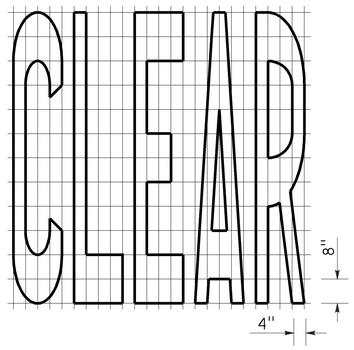
RSP A24A DATED APRIL 20, 2012 SUPERSEDES STANDARD PLAN A24A DATED MAY 20, 2011 - PAGE 13 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A24A

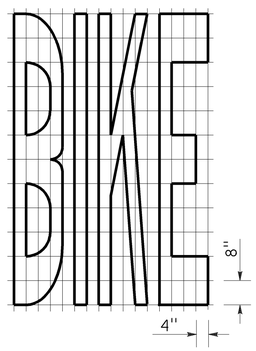
3-14-12



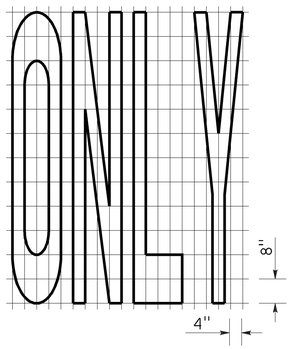
A=24 ft²



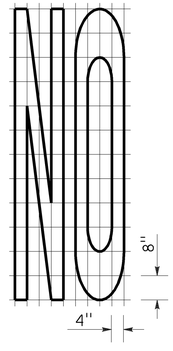
A=27 ft²



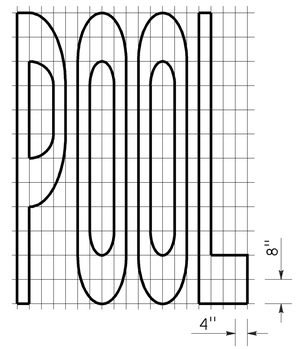
A=21 ft²



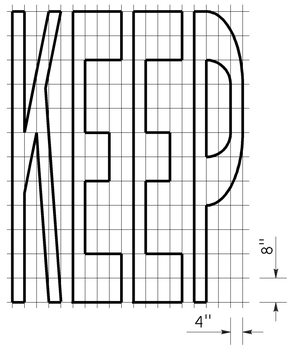
A=22 ft²



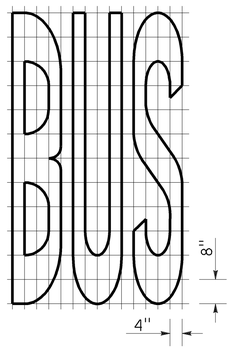
A=14 ft²



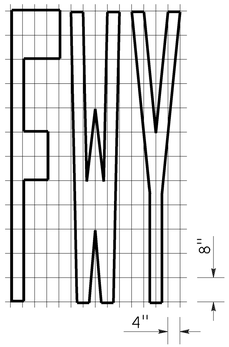
A=23 ft²



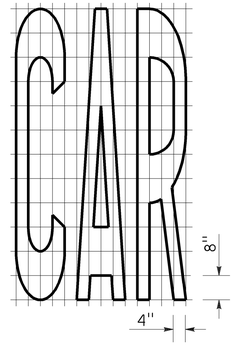
A=24 ft²



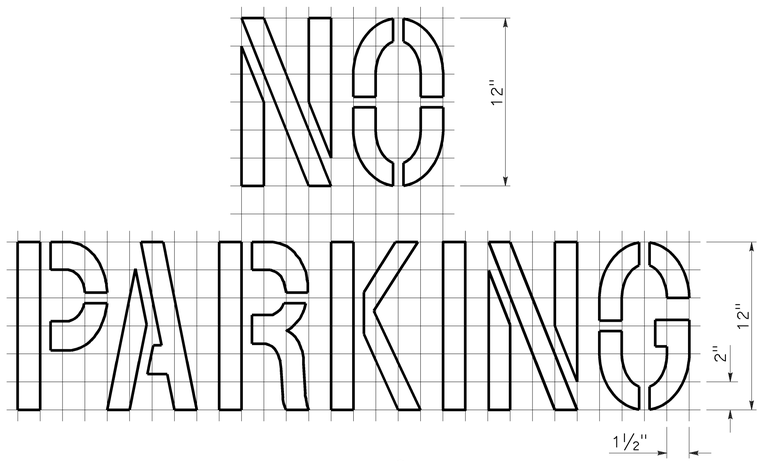
A=20 ft²



A=16 ft²

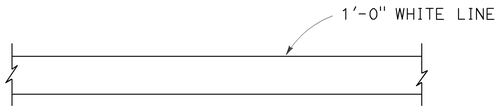


A=17 ft²

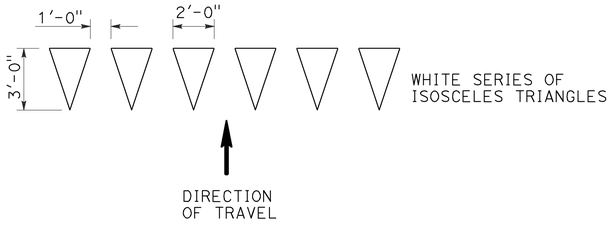


A=2 ft²

See Notes 6 and 7



LIMIT LINE (STOP LINE)



YIELD LINE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14,101	Var	27	42

Roberta L. McLaughlin
REGISTERED CIVIL ENGINEER

July 20, 2012
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Roberta L. McLaughlin
No. C40375
Exp. 3-31-13
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.

TO ACCOMPANY PLANS DATED 3-18-13

WORD MARKINGS			
ITEM	ft²	ITEM	ft²
LANE	24	NO	14
POOL	23	BIKE	21
CAR	17	BUS	20
CLEAR	27	ONLY	22
KEEP	24	FWY	16

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.

REVISED STANDARD PLAN RSP A24E

2010 REVISED STANDARD PLAN RSP A24E

6-12-12

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14,101	Var	28	42

REGISTERED CIVIL ENGINEER — 01-10-13 DATE

3-18-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — EDWARD J. NAHM — No. C66900 — Exp. 09/30/14 — CIVIL — STATE OF CALIFORNIA

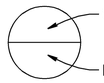
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

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	MISCELLANEOUS DETAILS NO. 1
14	MISCELLANEOUS DETAILS NO. 2
15	STRUCTURE APPROACH TYPE R(30D)

STANDARD PLANS DATED 2010

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



NOTE:

1. For deck damage repair details, see "MISCELLANEOUS DETAILS NO. 2" sheet.

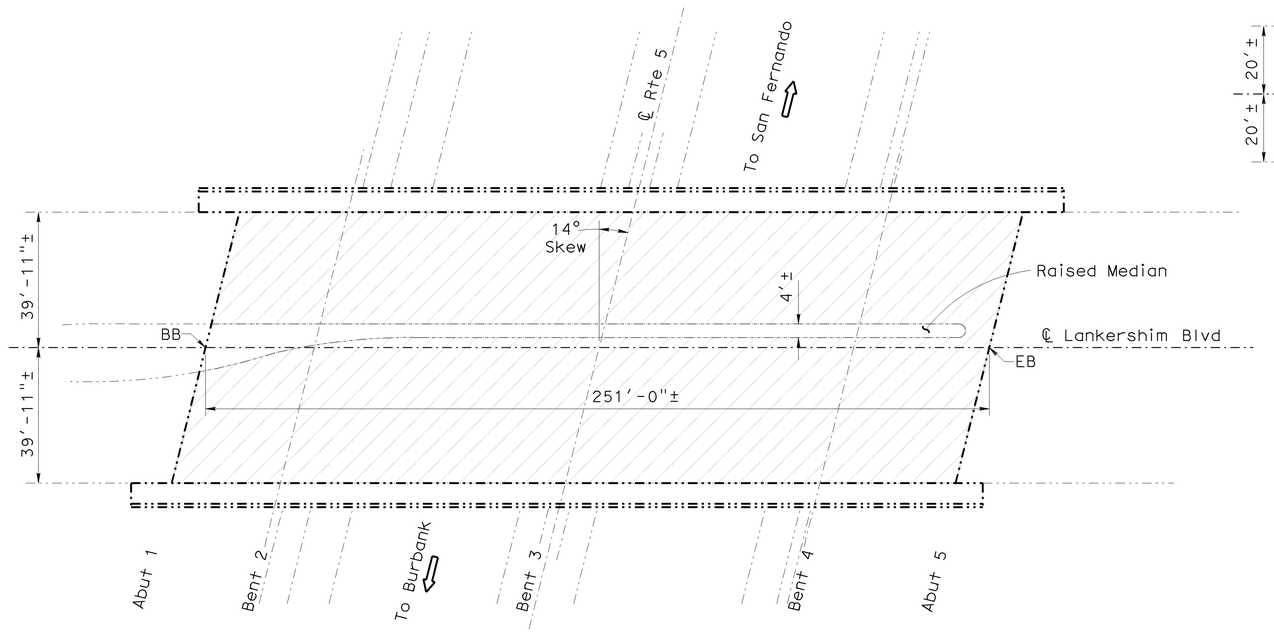
LEGEND:

- 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 removal of unsound concrete and place rapid setting concrete (patch).

LANKERSHIM BOULEVARD OC #53-1118

QUANTITIES

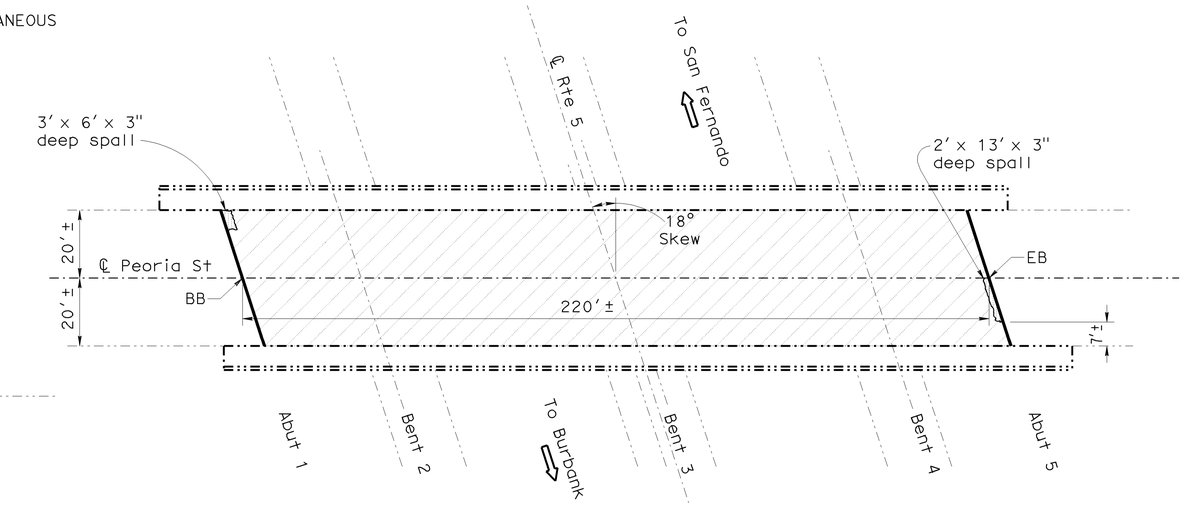
PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	19,036 SQFT
TREAT BRIDGE DECK	19,036 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	238 GAL



LANKERSHIM BOULEVARD OC

Br No. 53-1118, Rte 5, PM 34.99
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.



PEORIA STREET OC

Br No. 53-1119, Rte 5, PM 35.35
Scale 1"=20′

PEORIA STREET OC #53-1119

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
RAPID SETTING CONCRETE (PATCH)	11 CF
REMOVE UNSOUND CONCRETE	11 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	8,800 SQFT
TREAT BRIDGE DECK	8,800 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	110 GAL
CLEAN EXPANSION JOINT	84 LF
JOINT SEAL (MR 1½")	84 LF

TONY D. BRAKE
DESIGN ENGINEER

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

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

UNIT: 3489
PROJECT NUMBER & PHASE: 0700021252 1 CONTRACT NO.: 07-1W3601

BRIDGE NO. Various
POST MILE Varies

ROUTES 5,14,101 BRIDGES
GENERAL PLAN NO. 1

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
08-17-12	11-13-12	01-07-13	01-10-13	01	15

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14,101	Var	29	42

REGISTERED CIVIL ENGINEER — 01-10-13 DATE

3-18-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — 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.

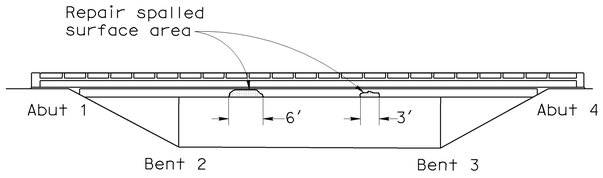
Indicates limits of prepare concrete bridge deck surface and treat existing bridge deck with high molecular weight methacrylate.

Indicates location of clean expansion joint and placement of new joint seal.

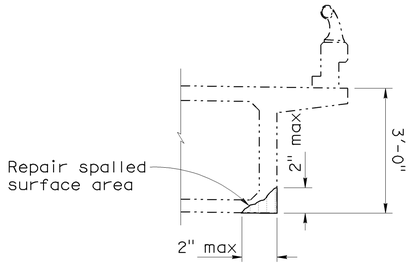
Indicates location of clean expansion joint and placement of new joint seal.

NOTE:

1. For spalled surfacce repair details, see "MISCELLANEOUS DETAIL NO.2" sheet.



VIEW B-B



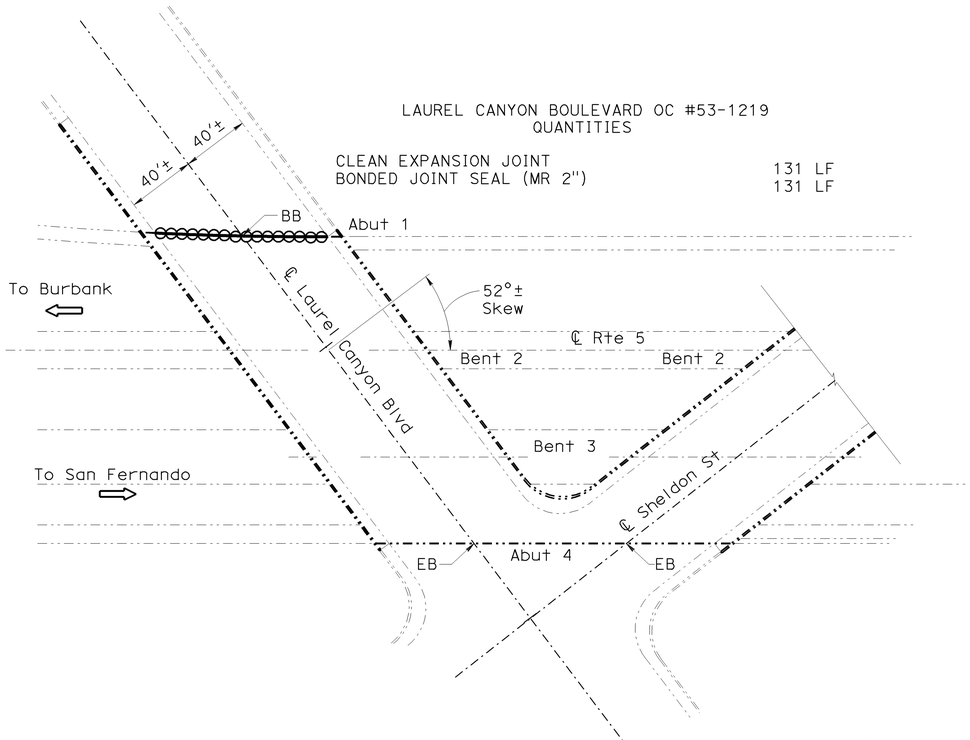
VIEW A-A

EXTERIOR GIRDER SPALL REPAIR

No Scale

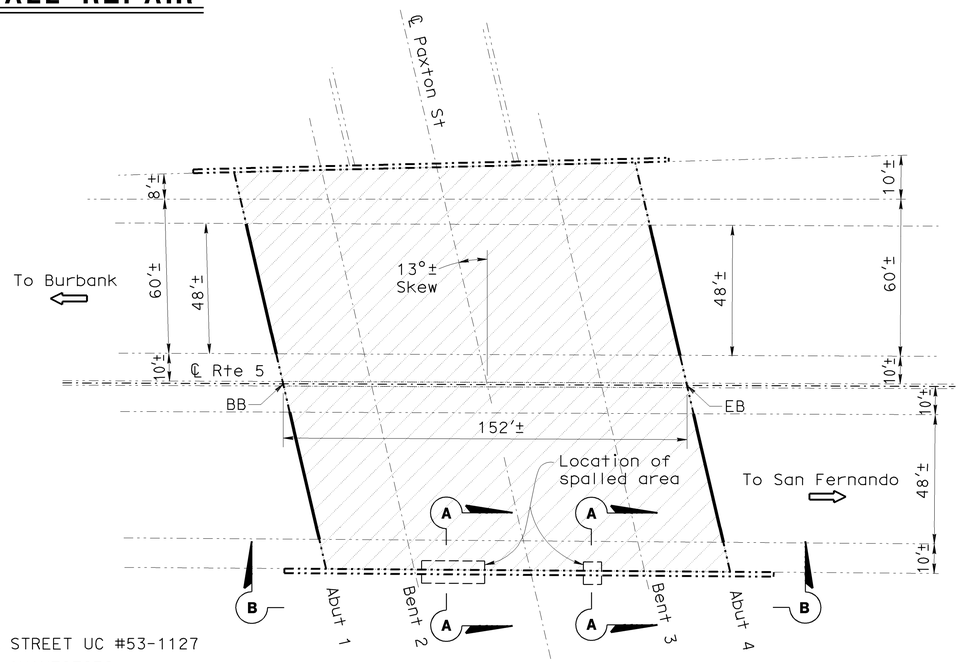
LAUREL CANYON BOULEVARD OC #53-1219
QUANTITIES

CLEAN EXPANSION JOINT	131 LF
BONDED JOINT SEAL (MR 2")	131 LF



LAUREL CANYON BOULEVARD OC

Br No. 53-1219, Rte 5, PM 35.94
No Scale



PAXTON STREET UC #53-1127
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
REPAIR SPALLED SURFACE AREA	2 SQFT
PREPARE CONCRETE BRIDGE DECK SURFACE	22,344 SQFT
TREAT BRIDGE DECK	22,344 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	279 GAL
CLEAN EXPANSION JOINT	198 LF
JOINT SEAL (MR 1½")	198 LF

PAXTON STREET UC

Br No. 53-1127, Rte 5, PM 39.05
Scale 1"=30'

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

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

LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD		
LAYOUT	BY Clayton Tom	CHECKED Edward Nahm	
SPECIFICATIONS	BY Karen Doll	PLANS AND SPECS COMPARED Karen Doll	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	ROUTES 5,14,101 BRIDGES
Various	GENERAL PLAN NO. 2
POST MILE	
Varies	

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3489
PROJECT NUMBER & PHASE: 0700021252 1 CONTRACT NO.: 07-1W3601

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
08-17-12	11-15-12	01-09-13	01-10-13	02	15

FILE => 07-1W3601-a-gp02.dgn

USERNAME => s1117283 DATE PLOTTED => 14-JAN-2013 TIME PLOTTED => 06:58

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14,101	Var	30	42

REGISTERED CIVIL ENGINEER — DATE 01-10-13

PLANS APPROVAL DATE 3-18-13

REGISTERED PROFESSIONAL ENGINEER — EDWARD J. NAHM — No. C66900 — Exp. 09/30/14 — CIVIL — STATE OF CALIFORNIA

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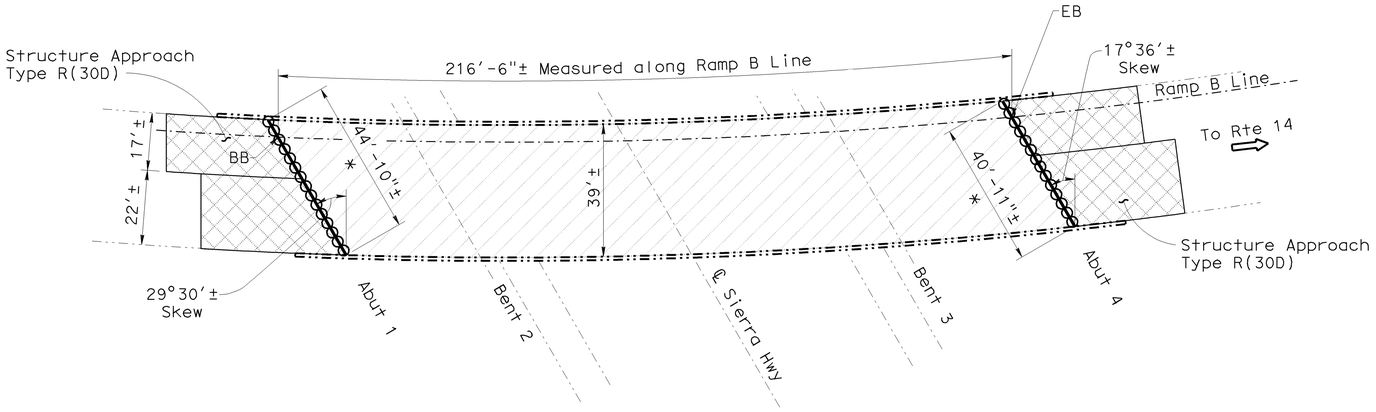
LEGEND:

- Indicates existing.
- Indicates direction of traffic.
- Indicates limits of prepare concrete bridge deck surface and treat existing bridge deck with high molecular methacrylate.
- Indicates location of clean expansion joint and placement of new joint seal.
- Indicates limits of remove existing PCC and AC approach and place new Structure Approach Type R(30D). For details, see "STRUCTURE APPROACH TYPE R(30D)" sheet.
- Indicates location of placement of new joint seal.
- * Indicates limit of paving notch extension.

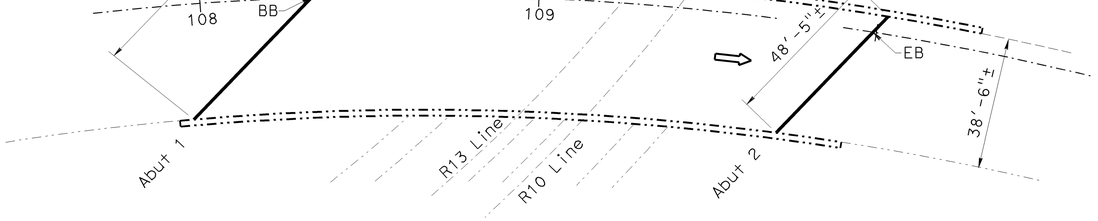


N5TRK-N14 CONNECTOR OC

Br No. 53-0848G, Rte 5, PM C45.49
Scale 1"=20'

N5TRK-N14 CONNECTOR OC #53-0848G
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	8,444 SQFT
TREAT BRIDGE DECK	8,444 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	106 GAL
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	119 CY
PAVING NOTCH EXTENSION	64 CF
JOINT SEAL (MR 1½")	86 LF



N5-E118 CONNECTOR OC

Br No. 53-2350G, Rte 5, PM 39.15
Scale 1"=20'

N5-E118 CONNECTOR OC #53-2350G
QUANTITIES

CLEAN EXPANSION JOINT	107 LF
JOINT SEAL (MR 1½")	107 LF

NOTE:
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TONY D. BRAKE
DESIGN ENGINEER

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.: Various
POST MILE: Varies

ROUTES 5,14,101 BRIDGES
GENERAL PLAN NO. 3

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

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

UNIT: 3489
PROJECT NUMBER & PHASE: 0700021252 1 CONTRACT NO.: 07-1W3601

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
08-17-12	11-13-12	01-09-13	01-10-13	03	15

FILE => 07-1W3601-a-gp03.dgn

USERNAME = s117283 DATE PLOTTED => 14-JAN-2013 TIME PLOTTED => 06:58

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14,101	Var	31	42

REGISTERED CIVIL ENGINEER — 01-10-13 DATE

3-18-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — EDWARD J. NAHM — No. C66900 — Exp. 09/30/14 — CIVIL — STATE OF CALIFORNIA

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LEGEND:

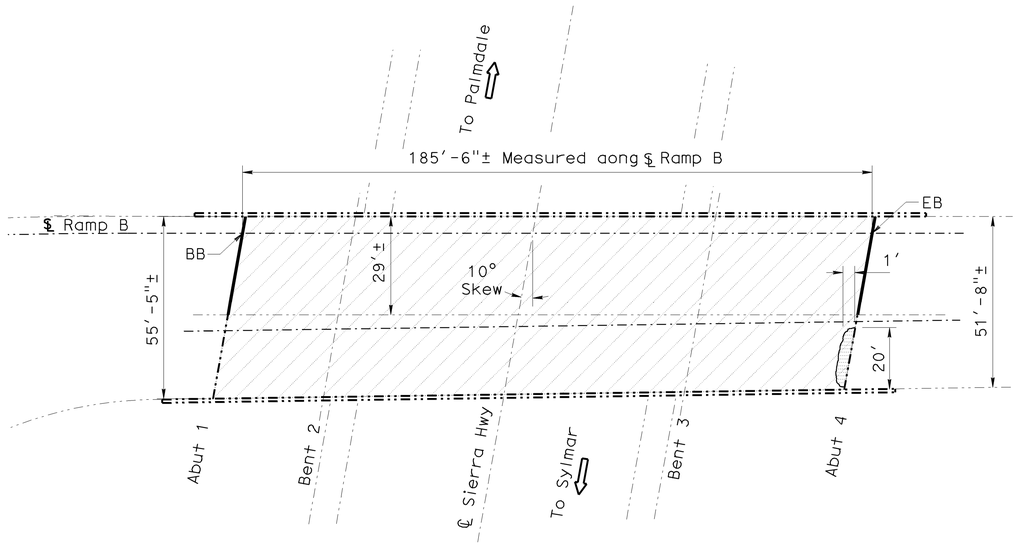
Indicates existing.

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 sawcut concrete, clean expansion joint and placement of new joint seal.

Indicates removal of ½" thick asphalt concrete surfacing.



N5TRK-N14 CONNECTOR

Br No. 53-1936G, Rte 5, PM C45.74
Scale 1"=20'

N5TRK-N14 CONNECTOR #53-1936G

QUANTITIES

REMOVE ASPHALT CONCRETE SURFACING	20 SQFT
PREPARE CONCRETE BRIDGE DECK SURFACE	9,932 SQFT
TREAT BRIDGE DECK	9,932 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	124 GAL
CLEAN EXPANSION JOINT	60 LF
JOINT SEAL (MR ½")	60 LF

NOTE:
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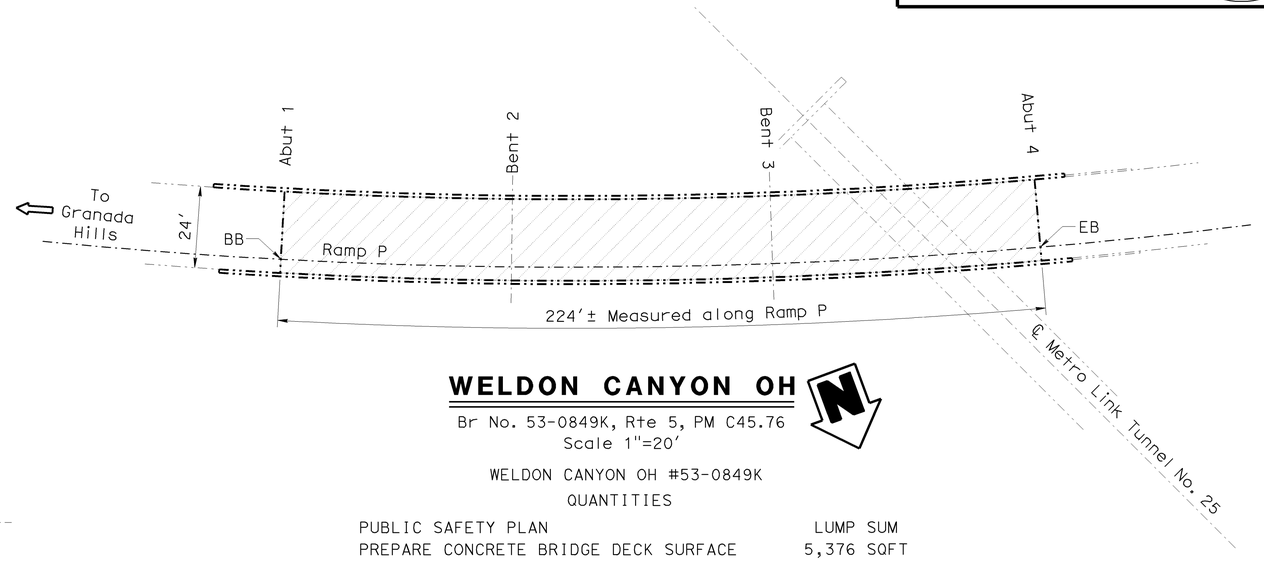


WELDON CANYON OH

Br No. 53-0849K, Rte 5, PM C45.76
Scale 1"=20'

WELDON CANYON OH #53-0849K

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	5,376 SQFT
TREAT BRIDGE DECK	5,376 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	67 GAL

TONY D. BRAKE
DESIGN ENGINEER

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

LOAD FACTOR DESIGN — LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD

	BY	CHECKED
LAYOUT	Clayton Tom	Edward Nahm
SPECIFICATIONS	Karen Doll	PLANS AND SPECS COMPARED: Karen Doll

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.: Various
POST MILE: Varies

ROUTES 5,14,101 BRIDGES
GENERAL PLAN NO. 4

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3489
PROJECT NUMBER & PHASE: 0700021252 1 CONTRACT NO.: 07-1W3601

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES				SHEET	OF
08-17-12	11-13-12	01-07-13	01-10-13	04	15

FILE => 07-1W3601-a-gp04.dgn

USERNAME => s8177283 DATE PLOTTED => 14-JAN-2013 TIME PLOTTED => 06:58

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14,101	Var	32	42

01-10-13
REGISTERED CIVIL ENGINEER DATE

3-18-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
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.

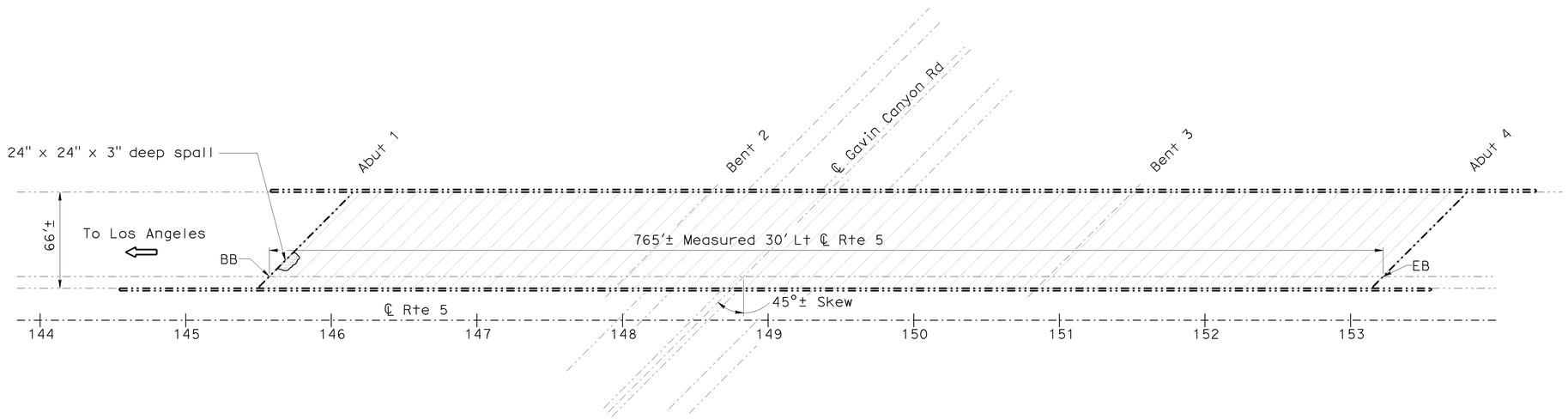
Indicates direction of traffic.

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

Indicates removal of unsound concrete and place rapid setting concrete patch.

NOTE:

1. For deck damage repair details, see "MISCELLANEOUS DETAILS NO. 2" sheet.



GAVIN CANYON UC

Br No. 53-2790L, Rte 5, PM R47.83
Scale 1"=40'

Note: Abutments have modular joint seal assemblies.

GAVIN CANYON UC #53-2790L
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
RAPID SETTING CONCRETE (PATCH)	1 CF
REMOVE UNSOUND CONCRETE	1 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	50,490 SQFT
TREAT BRIDGE DECK	50,490 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	631 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

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

LOAD FACTOR DESIGN: LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD

	BY	CHECKED
LAYOUT	Clayton Tom	Edward Nahm
SPECIFICATIONS	Karen Doll	PLANS AND SPECS COMPARED: Karen Doll

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTES 5,14,101 BRIDGES
GENERAL PLAN NO. 5

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3489
PROJECT NUMBER & PHASE: 0700021252 1 CONTRACT NO.: 07-1W3601

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
08-17-12	11-13-12	01-07-13	01-10-13	05	15

FILE => 07-1W3601-a-gp05.dgn

USERNAME => s117283 DATE PLOTTED => 14-JAN-2013 TIME PLOTTED => 06:59

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14,101	Var	33	42

REGISTERED CIVIL ENGINEER — 01-10-13 DATE

REGISTERED PROFESSIONAL ENGINEER — EDWARD J. NAHM — No. C66900 — Exp. 09/30/14 — CIVIL — STATE OF CALIFORNIA

3-18-13
PLANS APPROVAL DATE

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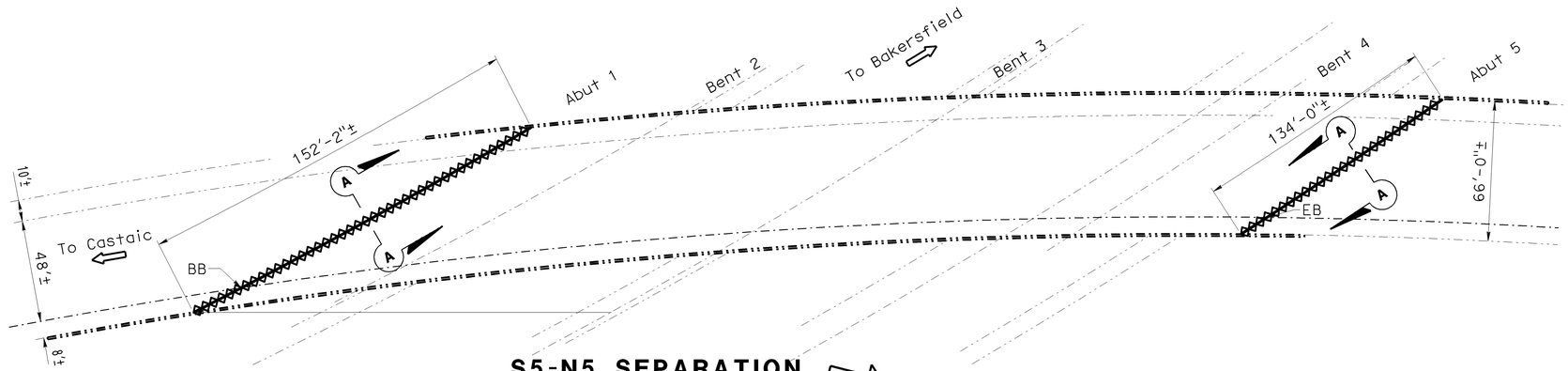
LEGEND:

- Indicates existing.
- Indicates direction of traffic.
- Indicates concrete removal limits. Preserve existing reinforcement.
- Indicates location of existing joint reconstruction and placement with new joint seal.
- Indicates rapid strength concrete.
- Indicates existing reinforcement.
- Indicates new structure.

S5-N5 SEPARATION #53-1902L

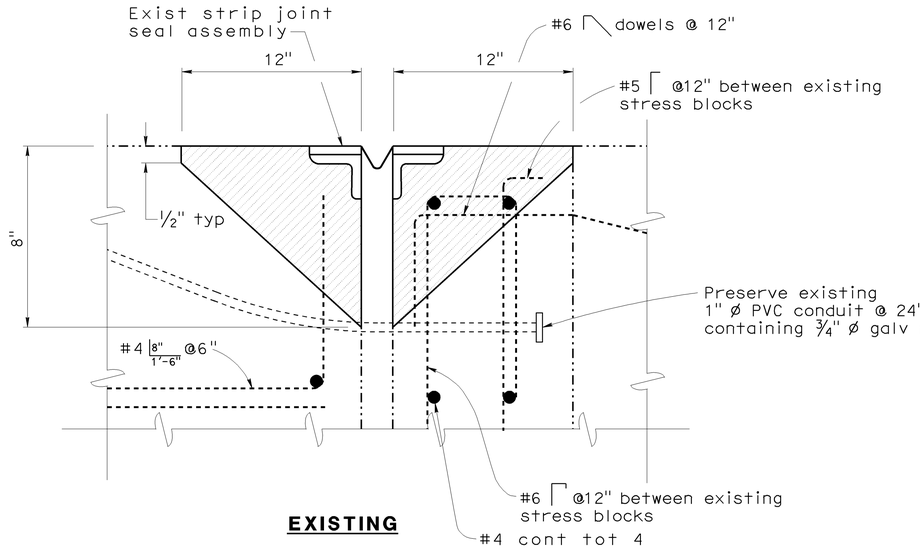
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION A	LUMP SUM
STRUCTURAL CONCRETE, BRIDGE	7 CY
DRILL AND BOND DOWEL	386 LF
JOINT SEAL (MR 1½")	287 LF
BAR REINFORCING STEEL (BRIDGE)	982 LB

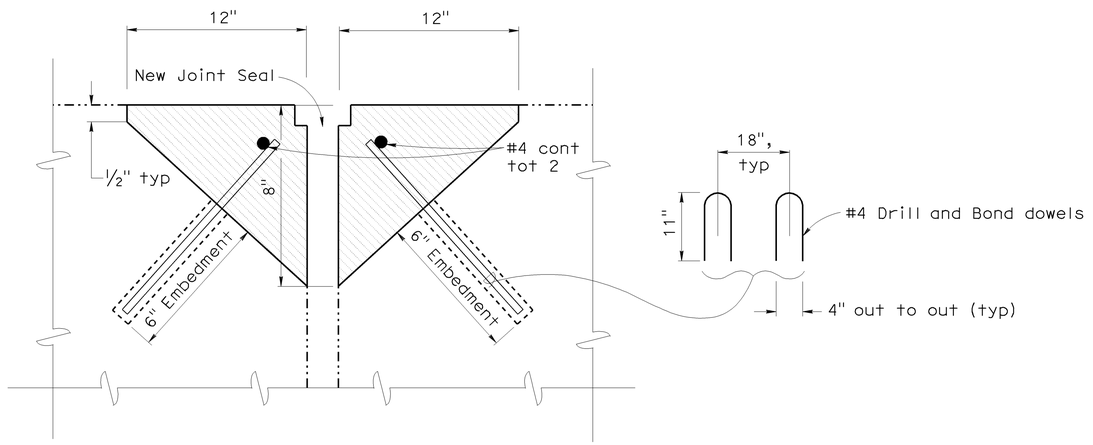


S5-N5 SEPARATION

Br No. 53-1902L, Rte 5, PM R59.95
Scale 1"=20'



EXISTING



RECONSTRUCTION

SECTION A-A, JOINT SEAL REPLACEMENT

No Scale

NOTE:
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TONY D. BRAKE
DESIGN ENGINEER

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTES 5,14,101 BRIDGES
GENERAL PLAN NO. 6

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3489
PROJECT NUMBER & PHASE: 0700021252 1 CONTRACT NO.: 07-1W3601

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
08-17-12	11-19-12	01-07-13	01-10-13	06	15

FILE => 07-1W3601-a-gp06.dgn

USERNAME => s117283 DATE PLOTTED => 14-JAN-2013 TIME PLOTTED => 06:59

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14,101	Var	34	42

REGISTERED CIVIL ENGINEER — 01-10-13 DATE

3-18-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — EDWARD J. NAHM — No. C66900 — Exp. 09/30/14 — CIVIL — STATE OF CALIFORNIA

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LEGEND:

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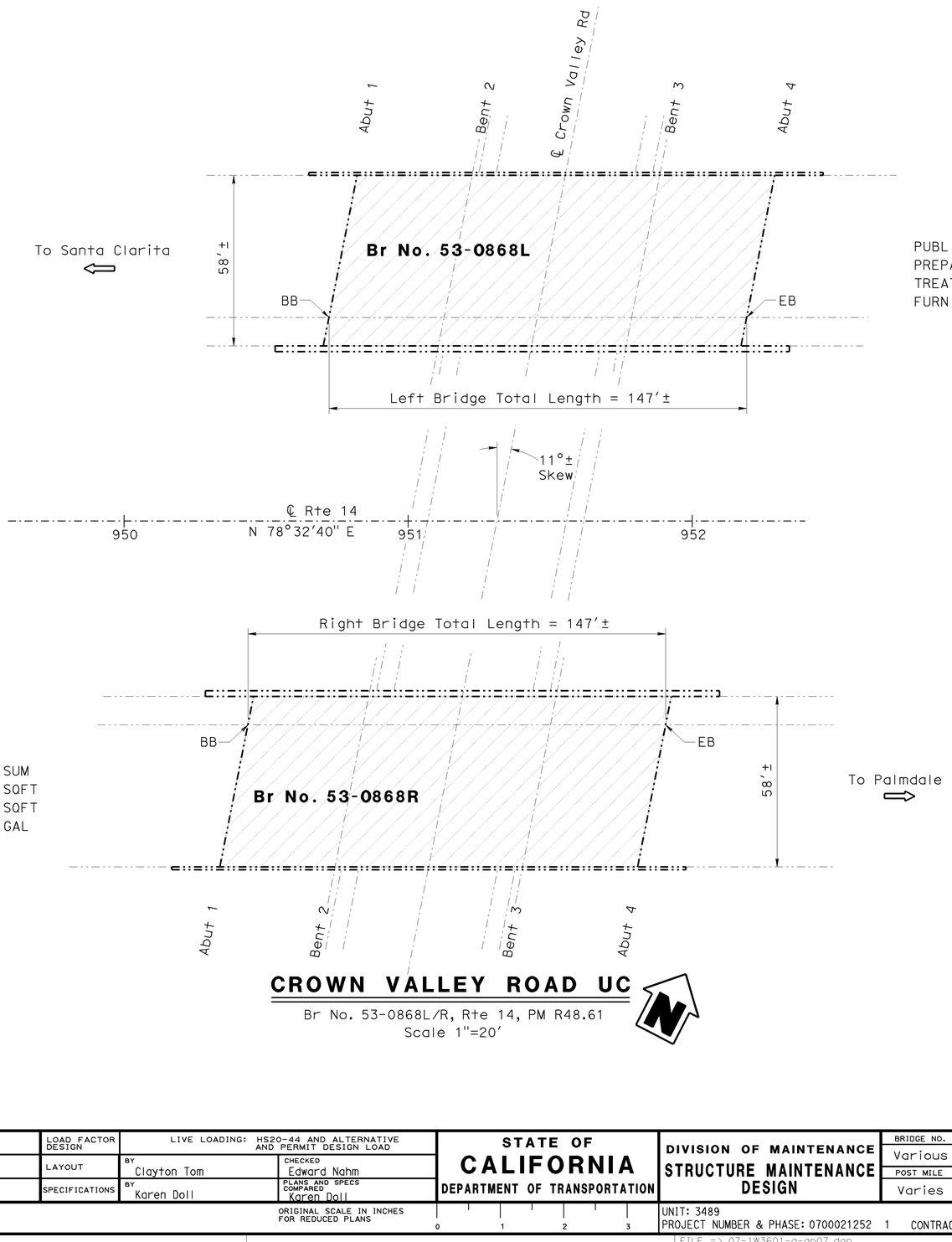
Indicates direction of traffic.

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



CROWN VALLEY ROAD UC #53-0868L
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	8,526 SQFT
TREAT BRIDGE DECK	8,526 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	107 GAL

CROWN VALLEY ROAD UC #53-0868R
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	8,526 SQFT
TREAT BRIDGE DECK	8,526 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	107 GAL

CROWN VALLEY ROAD UC

Br No. 53-0868L/R, Rte 14, PM R48.61
Scale 1"=20'

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TONY D. BRAKE
DESIGN ENGINEER

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

LOAD FACTOR DESIGN — LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD

	BY	CHECKED
LAYOUT	Clayton Tom	Edward Nahm
SPECIFICATIONS	Karen Doll	PLANS AND SPECS COMPARED: Karen Doll

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.: Various
POST MILE: Varies

ROUTES 5,14,101 BRIDGES
GENERAL PLAN NO. 7

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

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

UNIT: 3489
PROJECT NUMBER & PHASE: 0700021252 1 CONTRACT NO.: 07-1W3601

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
08-17-12	11-13-12	01-07-13	01-10-13	07	15

FILE => 07-1W3601-a-gp07.dgn

USERNAME => s117283 DATE PLOTTED => 14-JAN-2013 TIME PLOTTED => 06:59

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14,101	Var	35	42

01-10-13
REGISTERED CIVIL ENGINEER DATE

3-18-13
PLANS APPROVAL DATE

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

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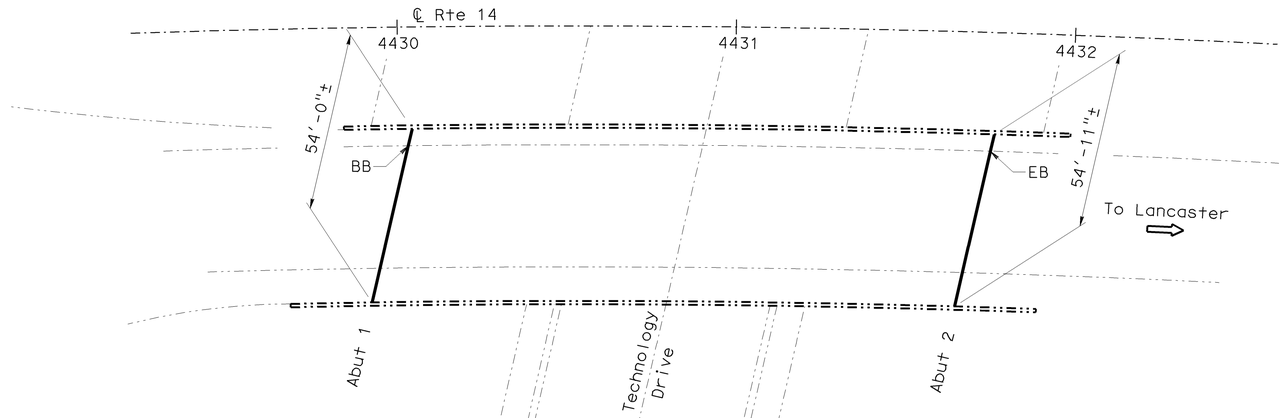
LEGEND:

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 sawcut concrete, clean expansion joint and placement of new joint seal.



TECHNOLOGY DRIVE UC

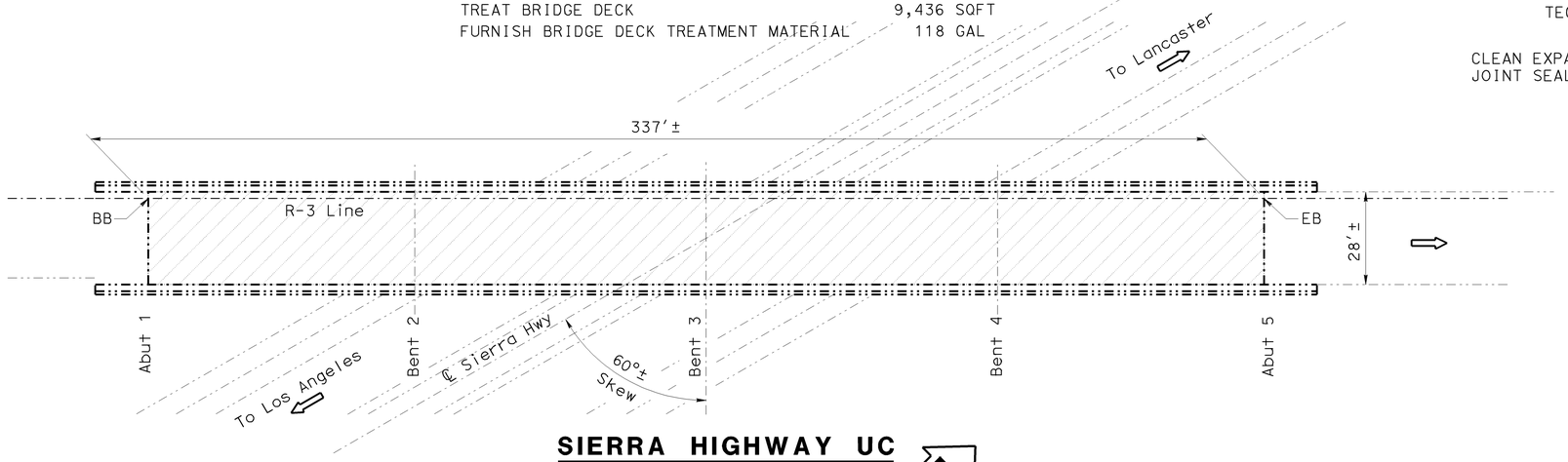
Br No. 53-2178R, Rte 14, PM R60.70
Scale 1"=20'

TECHNOLOGY DRIVE UC #53-2178R
QUANTITIES

CLEAN EXPANSION JOINT	109 LF
JOINT SEAL (MR 1½")	109 LF

SIERRA HIGHWAY UC #53-1004S
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	9,436 SQFT
TREAT BRIDGE DECK	9,436 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	118 GAL



SIERRA HIGHWAY UC

Br No. 53-1004S, Rte 14, PM R54.50
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

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTES 5,14,101 BRIDGES
GENERAL PLAN NO. 8

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3489
PROJECT NUMBER & PHASE: 0700021252 1 CONTRACT NO.: 07-1W3601

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
08-31-12	11-15-12	01-01-13	01-10-13	08	15

FILE => 07-1W3601-a-gp08.dgn

USERNAME => s117283 DATE PLOTTED => 14-JAN-2013 TIME PLOTTED => 06:59

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14,101	Var	36	42

REGISTERED CIVIL ENGINEER — 01-10-13 DATE

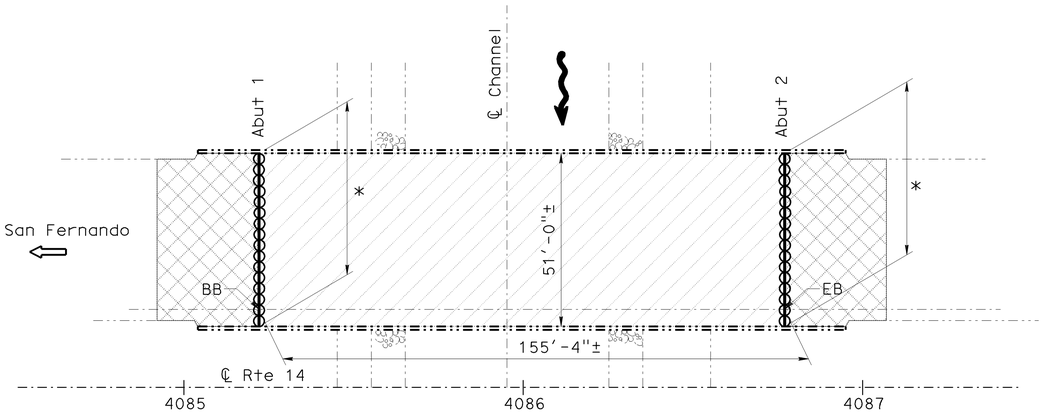
3-18-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — 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.
- Indicates limits of remove existing PCC and AC approach and place new Structure Approach Type R(30D). For details, see "STRUCTURE APPROACH TYPE R(30D)" sheet.
- Indicates limit of placement of new joint seal.
- * Indicates limit of paving notch extension.



SOUTH AMARGOSA CREEK

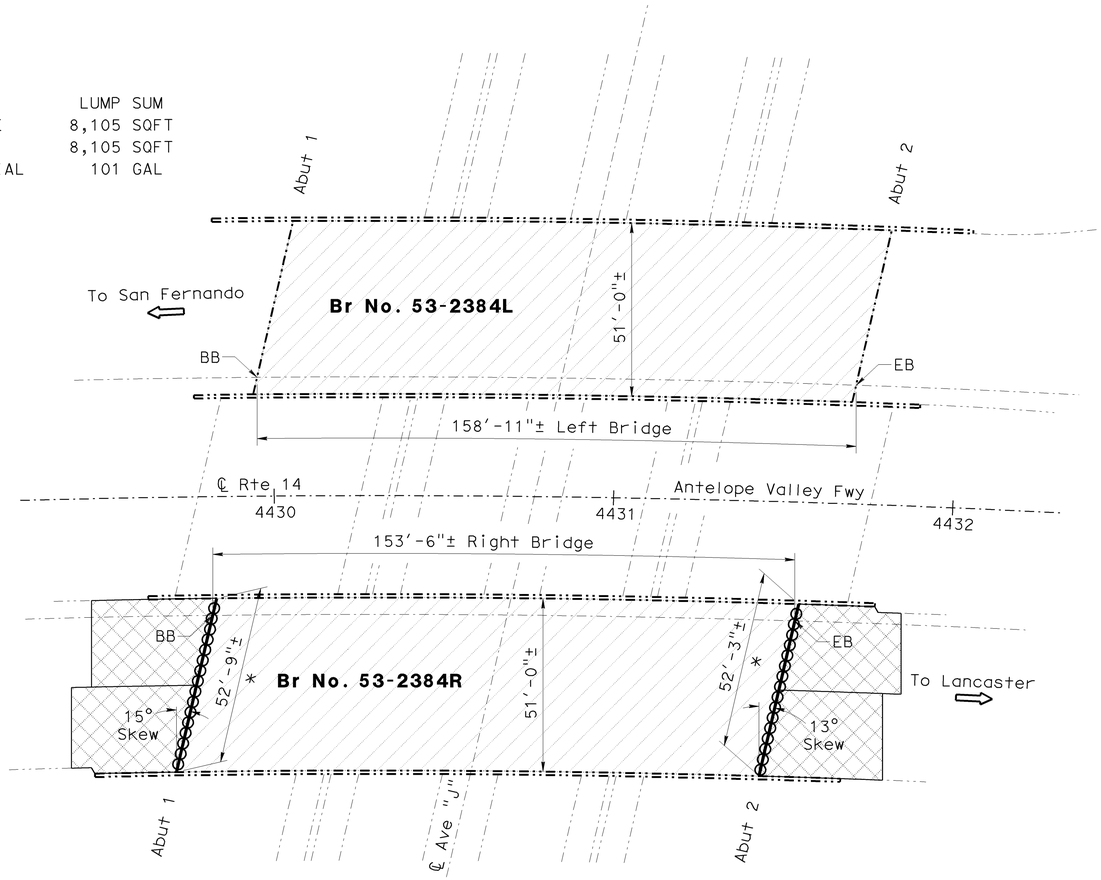
Br No. 53-2377L, Rte 14, PM R61.53
Scale 1"=20′

SOUTH AMARGOSA CREEK #53-2377L
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	7,922 SQFT
TREAT BRIDGE DECK	7,922 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	99 GAL
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	136 CY
PAVING NOTCH EXTENSION	77 CF
JOINT SEAL (MR ½")	102 LF

AVENUE J UC #53-2384L
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	8,105 SQFT
TREAT BRIDGE DECK	8,105 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	101 GAL



AVENUE "J" UC

Br No. 53-2384L/R, Rte 14, PM R67.95
Scale 1"=20′

AVENUE J UC #53-2384R
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	7,829 SQFT
TREAT BRIDGE DECK	7,829 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	98 GAL
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	153 CY
PAVING NOTCH EXTENSION	79 CF
JOINT SEAL (MR ½")	105 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

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

LOAD FACTOR DESIGN — LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD

	BY	CHECKED
LAYOUT	Clayton Tom	Edward Nahm
SPECIFICATIONS	Karen Doll	PLANS AND SPECS COMPARED: Karen Doll

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTES 5,14,101 BRIDGES
GENERAL PLAN NO. 9

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3489
PROJECT NUMBER & PHASE: 0700021252 1 CONTRACT NO.: 07-1W3601

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
08-17-12	11-13-12	01-07-13	01-10-13	09	15

FILE => 07-1W3601-a-gp09.dgn

USERNAME => s1172B3 DATE PLOTTED => 14-JAN-2013 TIME PLOTTED => 07:00

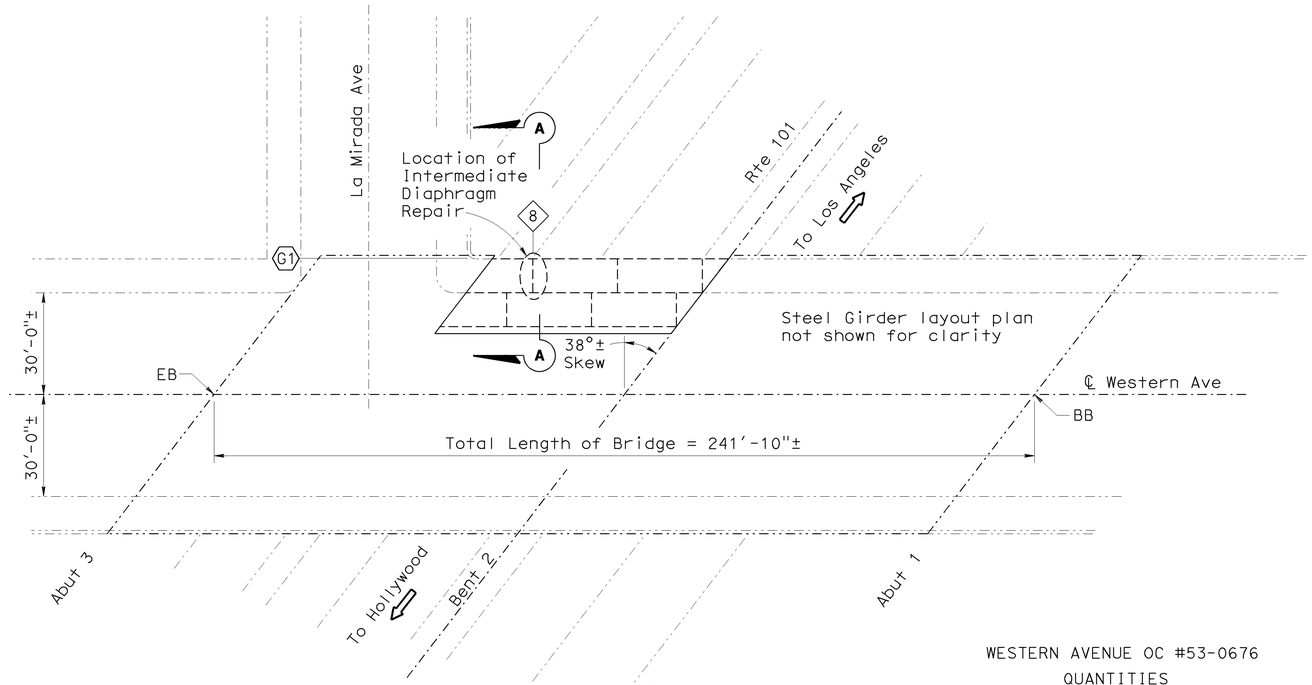
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14,101	Var	37	42

01-10-13
REGISTERED CIVIL ENGINEER DATE

3-18-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — EDWARD J. NAHM — No. C66900 — Exp. 06/30/14 — 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.



WESTERN AVENUE OC

Br No. 53-0676, Rte 101, PM 5.81
Scale 1"=20'

LEGEND:

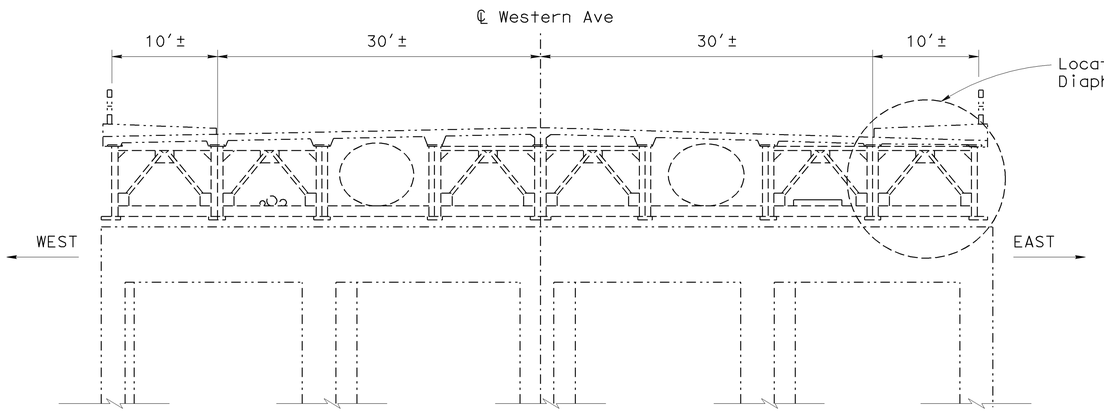
- Indicates existing.
- Indicates direction of traffic.
- G1-8 Indicates intermediate diaphragm repair designation.
- (1) Indicates location of replace intermediate diaphragm members.

NOTES:

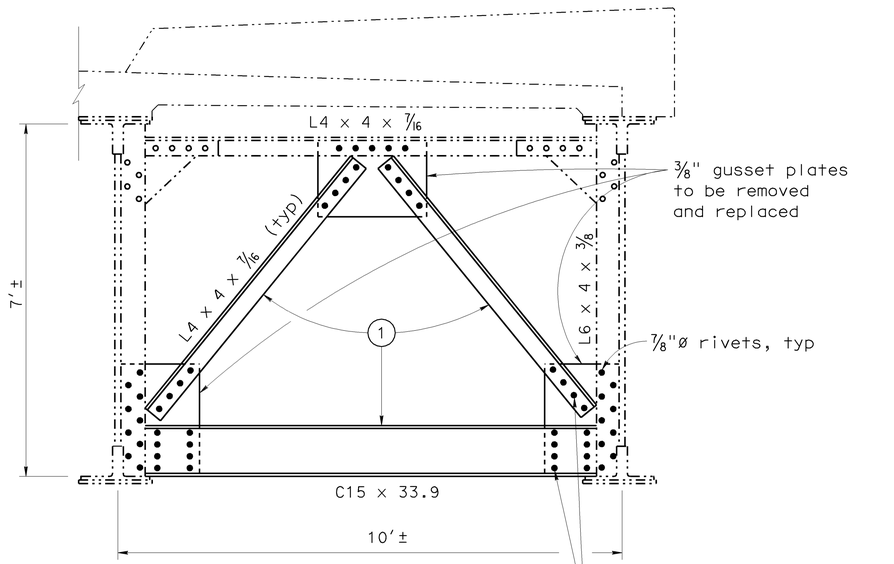
1. Replace damaged riveted intermediate diaphragm C15 x 33.9 (Tot 1) and L 4 x 4 x 7/16(tot 2) at G1-8. Remove and replace 3/8" gusset plates with7/8"ø HS bolts.
2. All new bolts to be galvanized HS bolts (ASTM A325). Holes shall be drilled on site to match locations in gusset plates (Tot 55).
3. All new structural steel to be ASTM Designation A709 Grade 36 (Fy=36ksi).
4. New steel members shall be painted prior to arrival on-site.

WESTERN AVENUE OC #53-0676
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION B	LUMP SUM
FURNISH STRUCTURAL STEEL (BRIDGE)	810 LB
ERECT STRUCTURAL STEEL (BRIDGE)	810 LB
CLEAN AND PAINT STRUCTURAL STEEL	LUMP SUM



TYPICAL SECTION
No Scale



SECTION A-A
No Scale

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	CHECKED Edward Nahm		
QUANTITIES	BY Edward Nahm	CHECKED Tony Brake	SPECIFICATIONS	BY Karen Doll	PLANS AND SPECS COMPARED Karen Doll		

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTES 5,14,101 BRIDGES
GENERAL PLAN NO. 10

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3489
PROJECT NUMBER & PHASE: 0700021252 1 CONTRACT NO.: 07-1W3601

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
08-17-12	11-13-12	01-07-13	01-10-13	10	15

FILE => 07-1W3601-a-gp10.dgn

USERNAME => s117283 DATE PLOTTED => 14-JAN-2013 TIME PLOTTED => 07:00

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14,101	Var	38	42

REGISTERED CIVIL ENGINEER — 01-10-13 DATE

3-18-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — EDWARD J. NAHM — No. C66900 — Exp. 09/30/14 — CIVIL — STATE OF CALIFORNIA

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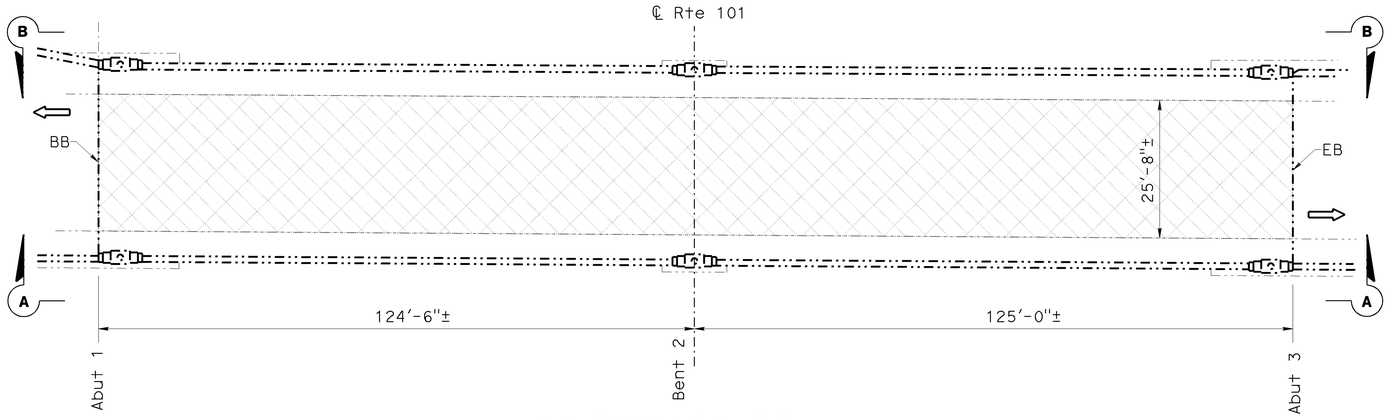
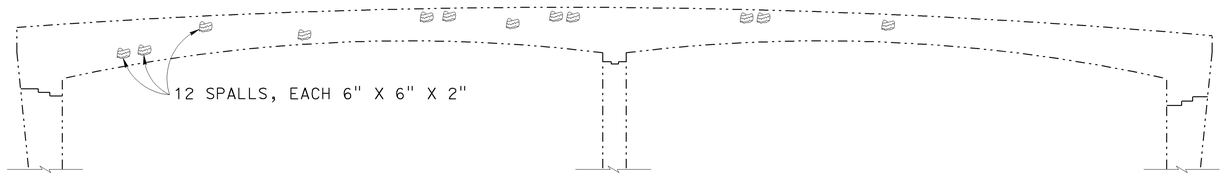


PILGRIMAGE OC

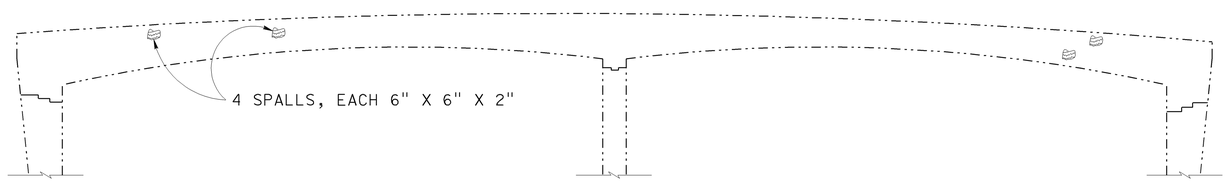
Br No. 53-0468, Rte 101, PM 8.05
No Scale

PILGRIMAGE OC #53-0468
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
RAPID SETTING CONCRETE (PATCH)	16 CF
REPAIR SPALLED SURFACE AREA	4 SQFT
REMOVE ASPHALT CONCRETE SURFACING	6,405 SQFT
REMOVE UNSOUND CONCRETE	16 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	6,405 SQFT
FURNISH POLYESTER CONCRETE OVERLAY	59 CF
PLACE POLYESTER CONCRETE OVERLAY	6,405 SQFT



VIEW A-A



VIEW B-B

SURFACE SPALL REPAIR

No Scale

NOTE:

1. For spalled surface repair details, see "MISCELLANEOUS DETAILS NO. 2" sheet.

LEGEND:

- Indicates existing.
- Indicates direction of traffic.
- Indicates limits of prepare concrete bridge 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 bridge deck surface shall be provided prior to placing the polyester concrete overlay.
- Indicates location of repair spalled surface area.
- Indicates limits of removal of 3" thick asphalt concrete surfacing.

NOTE:
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TONY D. BRAKE
DESIGN ENGINEER

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

LOAD FACTOR DESIGN — LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD

	BY	CHECKED
LAYOUT	Clayton Tom	Edward Nahm
SPECIFICATIONS	Karen Doll	PLANS AND SPECS COMPARED Karen Doll

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTES 5,14,101 BRIDGES
GENERAL PLAN NO. 11

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3489
PROJECT NUMBER & PHASE: 0700021252 1 CONTRACT NO.: 07-1W3601

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
08-17-12	11-13-12	01-07-13	01-10-13	11	15

FILE => 07-1W3601-a-gp11.dgn

USERNAME => S1117283 DATE PLOTTED => 14-JAN-2013 TIME PLOTTED => 07:00

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14,101	Var	39	42

REGISTERED CIVIL ENGINEER — 01-10-13 DATE

REGISTERED PROFESSIONAL ENGINEER — EDWARD J. NAHM — No. C66900 — Exp. 09/30/14 — CIVIL — STATE OF CALIFORNIA

3-18-13
PLANS APPROVAL DATE

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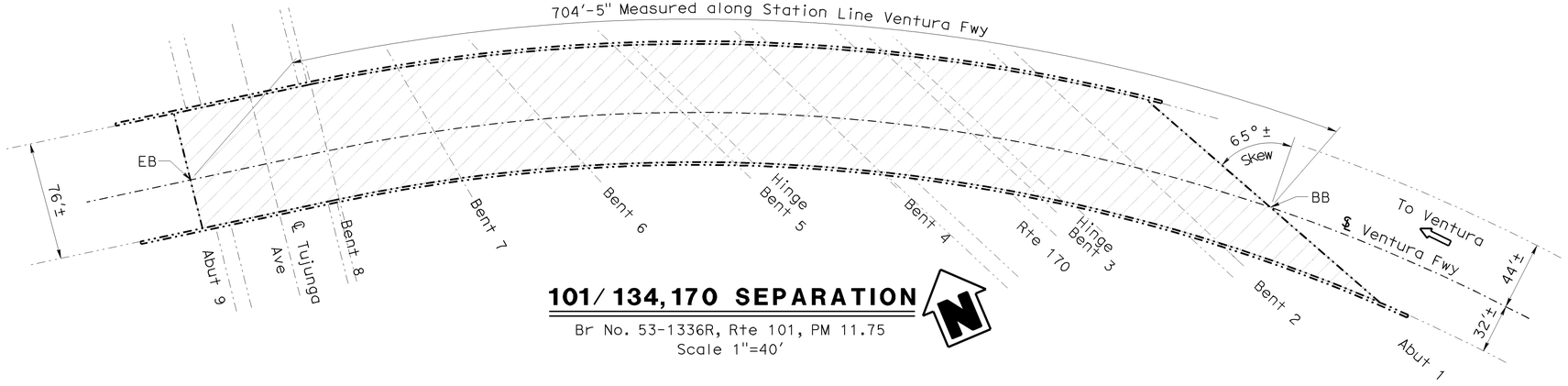
LEGEND:

Indicates existing.

Indicates direction of traffic.

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



101/ 134,170 SEPARATION

Br No. 53-1336R, Rte 101, PM 11.75
Scale 1"=40'

101/134, 170 SEPARATION #53-1336R
QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	53,542 SQFT
TREAT BRIDGE DECK	53,542 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	669 GAL

NOTE:
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TONY D. BRAKE
DESIGN ENGINEER

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

LOAD FACTOR DESIGN — LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD

	BY	CHECKED
LAYOUT	Clayton Tom	Edward Nahm
SPECIFICATIONS	Karen Doll	PLANS AND SPECS COMPARED: Karen Doll

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.: Various
POST MILE: Varies

ROUTES 5,14,101 BRIDGES
GENERAL PLAN NO. 12

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3489
PROJECT NUMBER & PHASE: 0700021252 1 CONTRACT NO.: 07-1W3601

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
08-17-12	11-13-12	01-07-13	01-10-13	12	15

FILE => 07-1W3601-a-gp12.dgn

USERNAME => s1177283 DATE PLOTTED => 14-JAN-2013 TIME PLOTTED => 07:00

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14,101	Var	40	42

REGISTERED CIVIL ENGINEER — 01-10-13 DATE

3-18-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — EDWARD J. NAHM — No. C66900 — Exp. 09/30/14 — CIVIL — STATE OF CALIFORNIA

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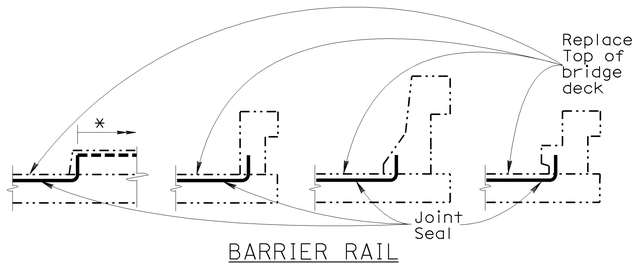
JOINT SEAL TABLE

BRIDGE NAME	BRIDGE NUMBER	JOINT SEAL LOCATION		MINIMUM "MR" (INCHES)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXP JOINT (INCHES)	APPROX JOINT LENGTH (ft)
Peoria Street OC	53-1119	Abut 1	PN	1.5	No	12	42
		Abut 5	PN	1.5	No	12	42
Laurel Canyon Blvd OC	53-1219	Abut 1	BW **	2	Yes	6	131
Paxton Street UC	53-1127	Abut 1	PN	1.5	No	12	99
		Abut 4	PN	1.5	No	12	99
N5-E118 Connector OC	53-2350G	Abut 1	PN	1.5	No	12	59
		Abut 2	PN	1.5	No	12	49
N5TRK-N14 Connector	53-0848G	Abut 1	PN	1.5	No	N/A	45
		Abut 4	PN	1.5	No	N/A	41
N5TRK-N14 Connector	53-1936G	Abut 1	PN	0.5	No	11½	30
		Abut 4	PN	0.5	No	11½	30
S5-N5 Separation	53-1902L	Abut 1	PN	1.5	No	N/A	143
		Abut 5	PN	1.5	No	N/A	143
Technology Drive UC	53-2178R	Abut 1	PN	1.5	No	12	54
		Abut 2	PN	1.5	No	12	55
South Amargosa Creek Br	53-2377L	Abut 1	PN	0.5	No	N/A	51
		Abut 2	PN	0.5	No	N/A	51
Avenue "J" UC	53-2384R	Abut 1	PN	0.5	No	N/A	53
		Abut 2	PN	0.5	No	N/A	52

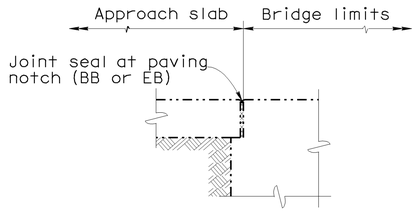
PN = Paving Notch
BW = Backwall
** = Bonded Joint Seal



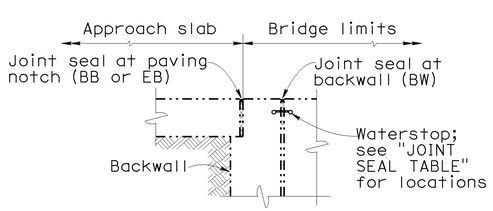
BARRIER RAIL

JOINT SEAL AT LOW SIDE OF DECK

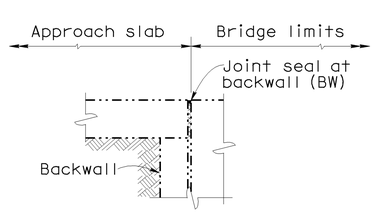
Details shown for illustration purposes only.
For use only where deck joint matches the sidewalk, curb or barrier rail joint.
* Extension of joint will be determined by the Engineer if necessary.



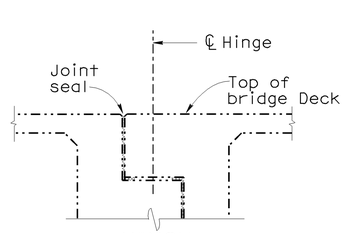
DIAPHRAGM ABUTMENT



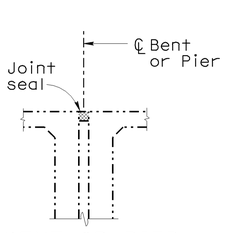
ABUTMENT WITH BACKWALL AND PAVING NOTCH



ABUTMENT WITH BACKWALL



HINGE



BENT OR PIER

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

JOINT SEAL LOCATION

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

NOTES:

The following notes apply to JOINT SEAL TYPE A:

Install Joint Seal (MR = ½") 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.

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTES 5,14,101 BRIDGES
MISCELANEOUS DETAILS NO. 1

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3489
PROJECT NUMBER & PHASE: 0700021252 1 CONTRACT NO.: 07-1W3601

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
08-17-12	11-13-12	01-09-13	01-10-13	13	15

FILE => 07-1w3601-u-miscdt01.dgn

USERNAME => s117283 DATE PLOTTED => 14-JAN-2013 TIME PLOTTED => 07:01

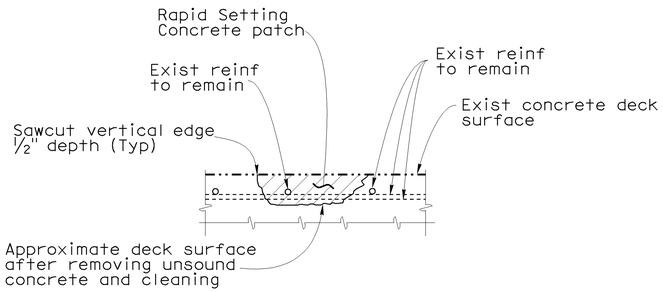
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14,101	Var	41	42

REGISTERED CIVIL ENGINEER — 01-10-13 DATE

3-18-13
PLANS APPROVAL DATE

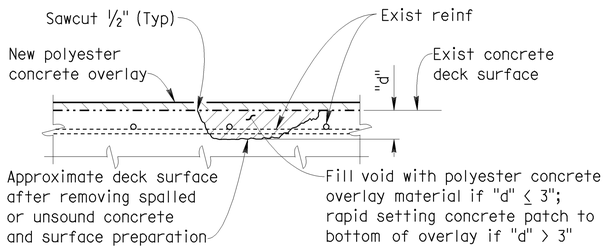
REGISTERED PROFESSIONAL ENGINEER — EDWARD J. NAHM — No. C66900 — Exp. 09/30/14 — CIVIL — STATE OF CALIFORNIA

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.



DECK DAMAGE REPAIR DETAIL

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

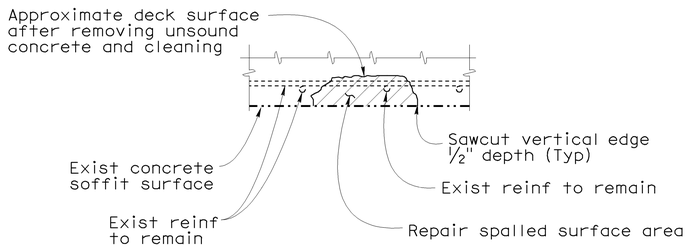


DECK REPAIR DETAIL - OVERLAY

(Br No. 53-0468)
Reinforcement may be encountered during deck concrete removal.

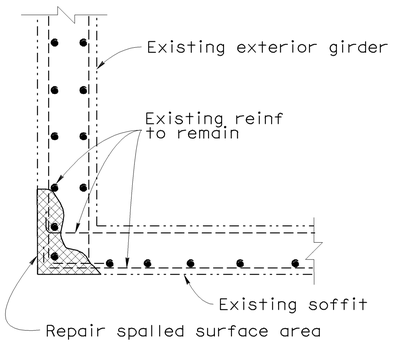
DECK REPAIR NOTES:

1. Existing reinforcement shall be protected in place during unsound concrete removal and patching operations.
2. It is responsibility of the Contractor to repair any reinforcement that is accidently cut by saw cutting operations.
3. When existing transverse reinforcement is exposed in the deck surface, saw cutting may be waived with the approval of the Engineer.
4. The saw cut depth shall not exceed ½ inch or the concrete cover over the top steel reinforcing bars, whichever is less.
5. Remove unsound Portland Cement concrete and unsound concrete patches to expose sound, hard concrete substrate. Replace original deck surface with rapid setting concrete patch.



SOFFIT SPALL REPAIR DETAIL

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

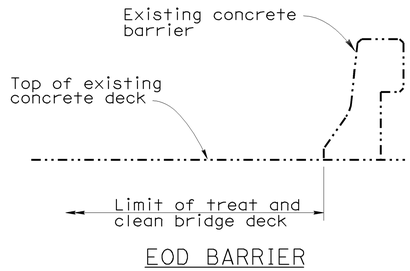


SPALLED SURFACE AREA DETAIL

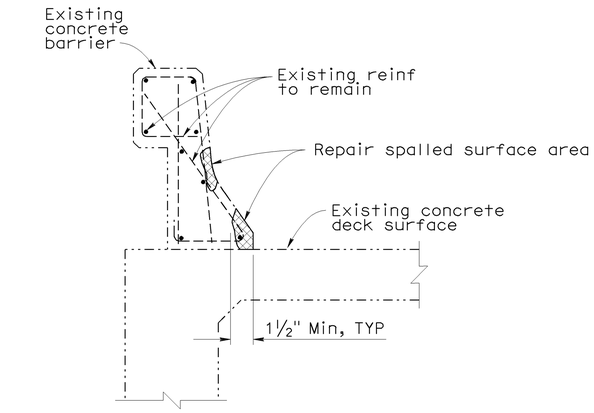
Location will be determined by the Engineer.
Reinforcement may be encountered during deck concrete removal and is to remain undamaged.

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

BRIDGE NAME	BRIDGE NUMBER	APPROXIMATE AREA DAMAGED (%)	APPROXIMATE DEPTH (INCH)
Pilgrimage OC	53-0468	1	3"

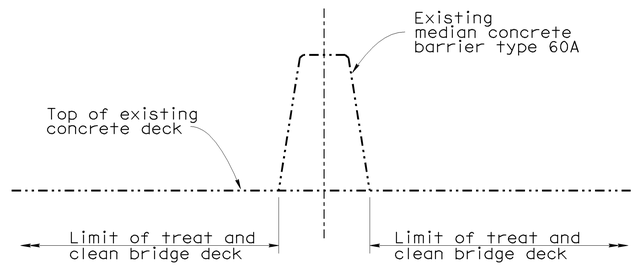


EOD BARRIER

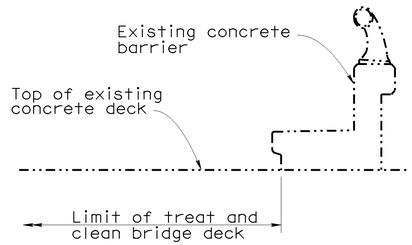


CONCRETE BARRIER SPALL REPAIR DETAIL

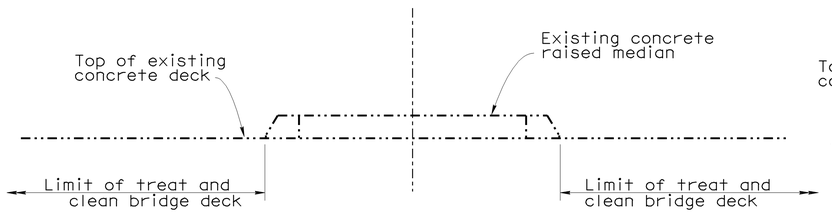
Location will be determined by the Engineer.
Reinforcement may be encountered during deck concrete removal and is to remain undamaged.



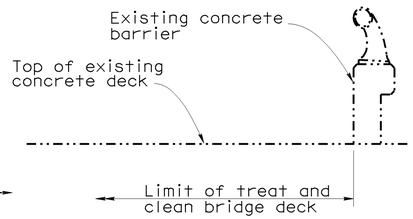
MEDIAN BARRIER



SIDEWALK BARRIER TYPE 2



RAISED MEDIAN



SIDEWALK BARRIER TYPE 1

TYPICAL LIMITS OF DECK WORK

NO SCALE

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

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTES 5,14,101 BRIDGES
MISCELANEOUS DETAILS NO. 2

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3489
PROJECT NUMBER & PHASE: 0700021252 1 CONTRACT NO.: 07-1W3601

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
08-17-12	11-15-12	01-09-13	01-10-13	14	15

FILE => 07-1w3601-u-miscdt02.dgn

DATE PLOTTED => 14-JAN-2013 TIME PLOTTED => 07:01
USERNAME => s117283

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5,14,101	Var	42	42

REGISTERED CIVIL ENGINEER — 01-10-13 DATE

3-18-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — EDWARD J. NAJM — No. C66900 — Exp. 09/30/14 — CIVIL — STATE OF CALIFORNIA

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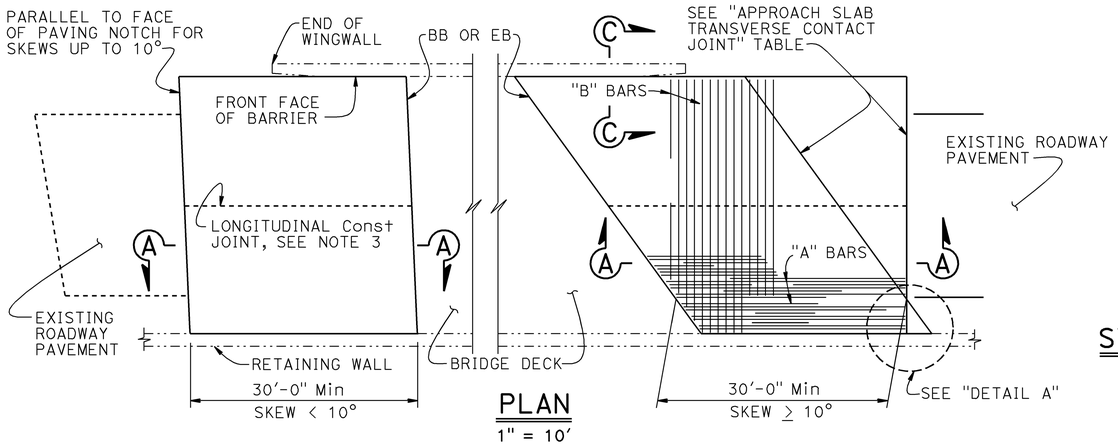
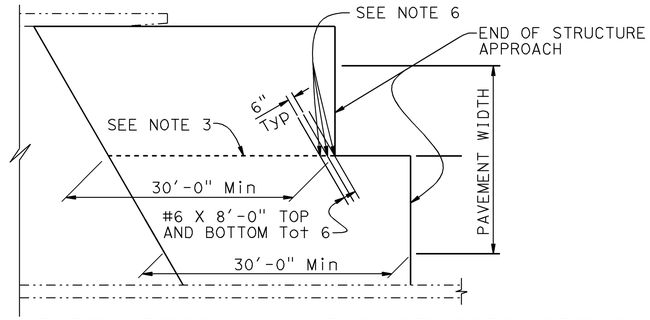
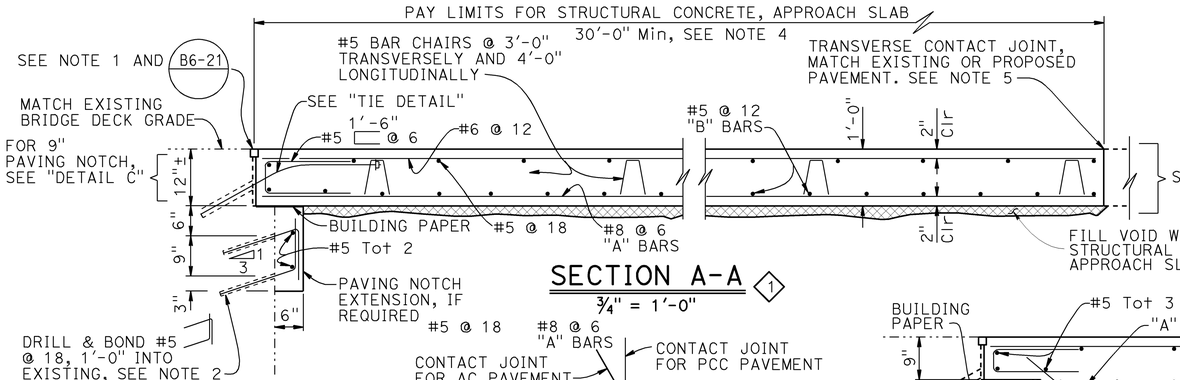


PLAN
1" = 10'



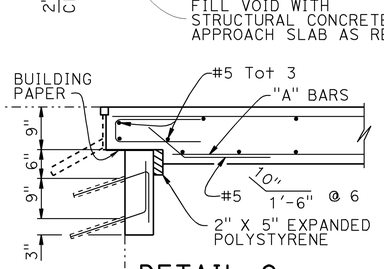
STRUCTURE APPROACH - END STAGGER DETAIL
NO SCALE

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

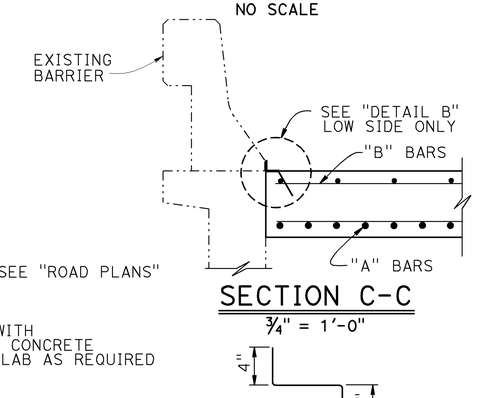


SECTION A-A ⟨1⟩
¾" = 1'-0"

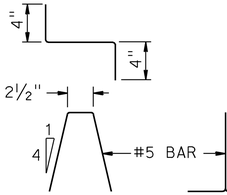
DETAIL A
No Scale



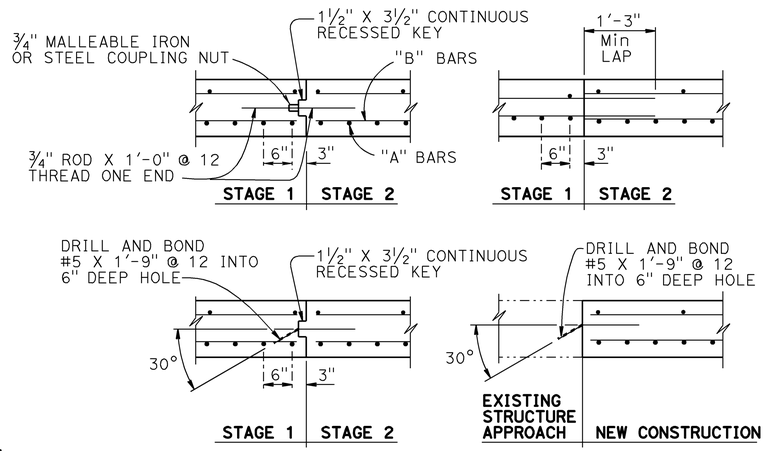
DETAIL C
¾" = 1'-0"



SECTION C-C
¾" = 1'-0"

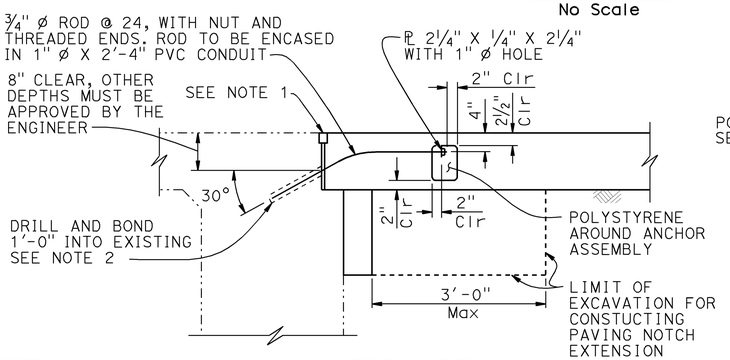


BAR CHAIR DETAIL
1½" = 1'-0"



LONGITUDINAL CONSTRUCTION JOINT ALTERNATIVES
¾" = 1'-0"

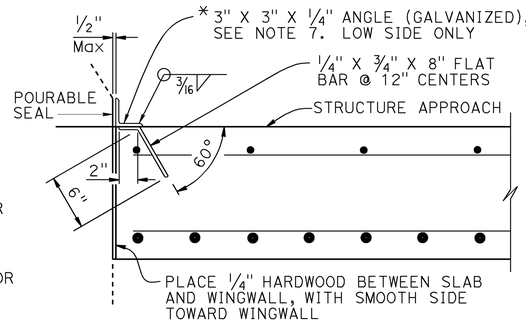
NOTES:
1. For details not shown or noted, see Structure Plans. Adjust bar reinforcement to clear a sawcut for sealed joint, when required
2. Space to avoid existing prestress anchorages and main reinforcement
3. Longitudinal construction joints, when permitted by the Engineer, shall be located on lane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



TIE DETAIL
¾" = 1'-0"

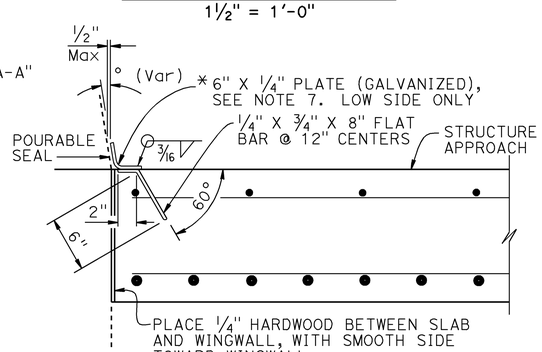
NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

NOTE: For details not shown, see "SECTION A-A"



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

DETAIL B
1½" = 1'-0"



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

REVISED STANDARD DRAWING

FILE NO. xs3-150

APPROVAL DATE July 2011

⟨1⟩ REVISED

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)

DS OSD 2147A (ENGLISH STANDARD DRAWING "XS" BORDER REV. (02-02-11)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3489
PROJECT NUMBER & PHASE: 0700021252 1
CONTRACT NO.: 07-1W3601

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
10-FEB-12	Revised			15	15

FILE => 07-1w3601-v-sa.dgn

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