

INDEX OF PLANS

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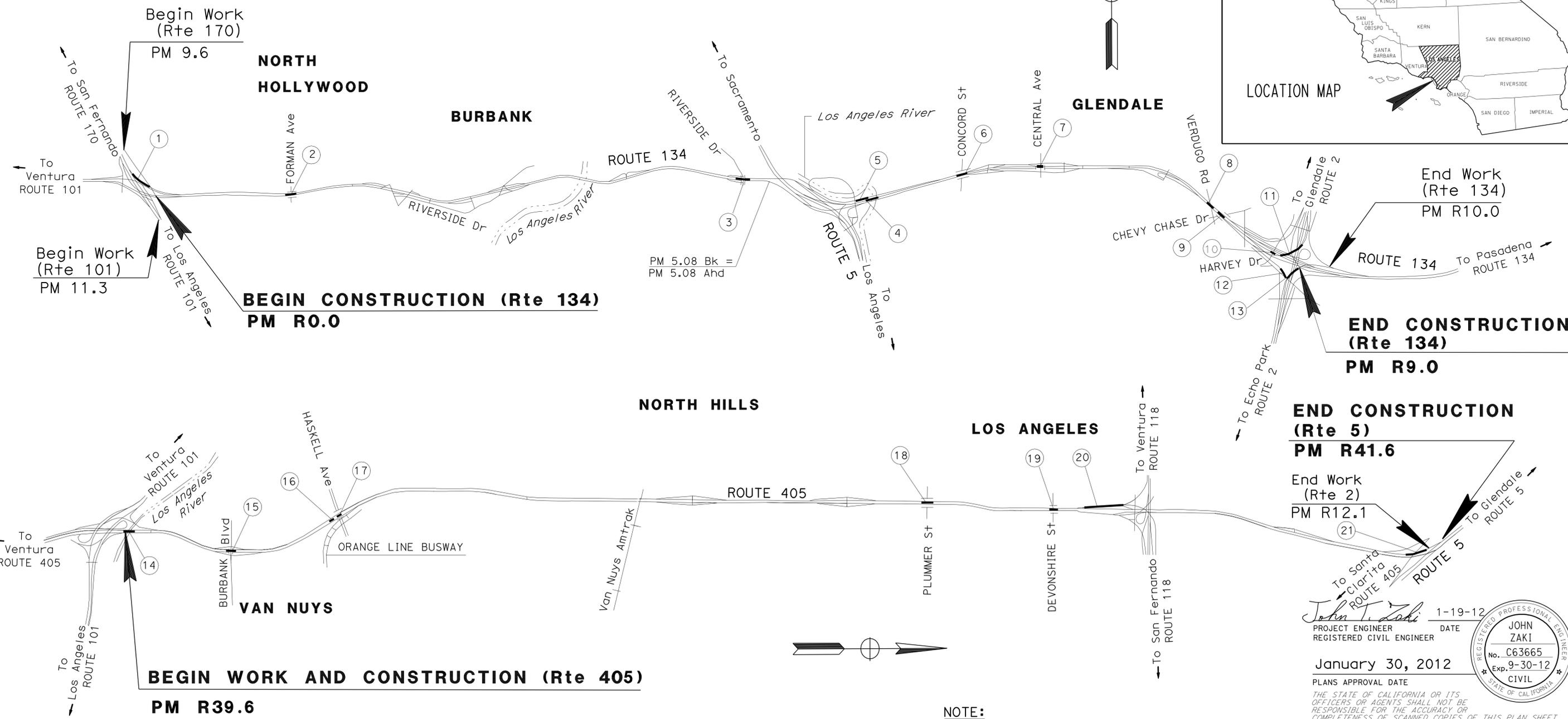
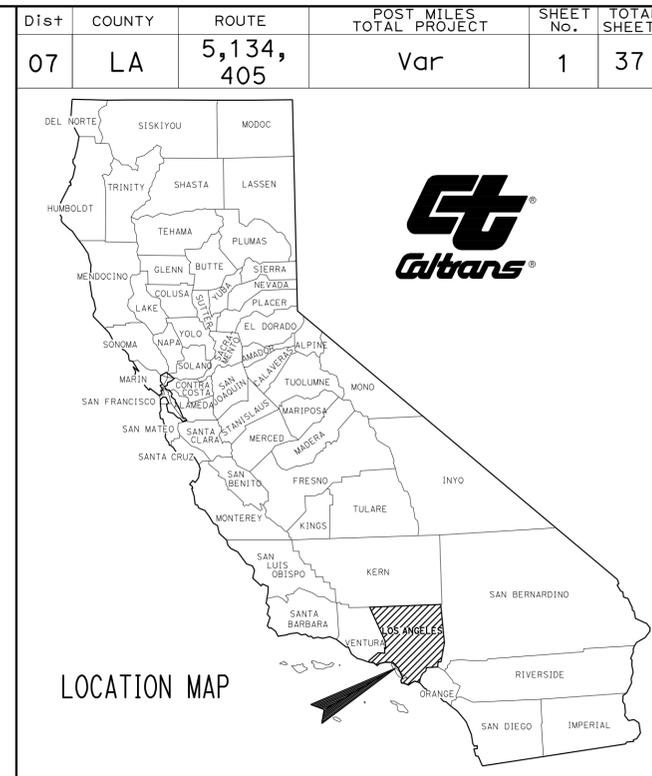
STRUCTURES PLANS

| | |
|-------|------------------------------|
| 21-37 | ROUTE 5, 135 AND 405 BRIDGES |
|-------|------------------------------|

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

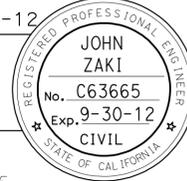
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN LOS ANGELES COUNTY
AT VARIOUS LOCATIONS

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



PROJECT MANAGER
CHRISTIAN SAM
DESIGN ENGINEER
DEBORAH WONG

John T. Zaki 1-19-12
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER
January 30, 2012
PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



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

NO SCALE

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

DATE PLOTTED => 26-JAN-2012 TIME PLOTTED => 10:45
LAST REVISION 01-30-12

| | | | | | |
|------|--------|-------------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 07 | LA | 5, 134, 405 | Var | 2 | 37 |

John T. Zaki 01-19-12
 REGISTERED CIVIL ENGINEER DATE

01-30-12
 PLANS APPROVAL DATE

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

LOCATIONS OF CONSTRUCTION

| Loc | ROUTE | PM | BRIDGE NAME | BRIDGE No. |
|-----|-------|-------|----------------------------|------------|
| ① | 134 | 0.03 | W134-N170 CONNECTOR | 53-1452F |
| ② | 134 | 1.36 | FORMAN AVENUE UC | 53-1276 |
| ③ | 134 | 4.81 | RIVERSIDE DRIVE OC | 53-1287 |
| ④ | 134 | R5.67 | LOS ANGELES RIVER BOH | 53-1790 |
| ⑤ | 134 | R5.67 | W134-5 CONNECTOR BOH | 53-1790 H |
| ⑥ | 134 | R6.18 | CONCORD STREET UC | 53-1744 |
| ⑦ | 134 | R6.96 | CENTRAL AVENUE OC | 53-1748 |
| ⑧ | 134 | R8.23 | VERDUGO Rd SEPARATION | 53-1863 |
| ⑨ | 134 | R8.35 | CHEVY CHASE DRIVE UC | 53-1866 |
| ⑩ | 134 | R8.81 | HARVEY DRIVE UC | 53-1884 |
| ⑪ | 134 | R8.81 | 134-E/2 CONNECTOR OC | 53-1907G |
| ⑫ | 134 | R8.95 | E134-W2 CONNECTOR OC | 53-1918G |
| ⑬ | 134 | R9.04 | W134-S2 CONNECTOR OC | 53-1917F |
| ⑭ | 405 | 39.62 | LOS ANGELES RIVER | 53-1159 |
| ⑮ | 405 | 40.29 | BURBANK BOULEVARD OC | 53-1291 |
| ⑯ | 405 | 41.27 | VAN NUYS OH | 53-1362 |
| ⑰ | 405 | 41.35 | HASKELL AVENUE UC | 53-1550K |
| ⑱ | 405 | 45.24 | PLUMMER STREET UC | 53-1496 |
| ⑲ | 405 | 46.24 | DEVONSHIRE STREET UC | 53-1500 |
| ⑳ | 405 | 46.80 | N405-E & W118 CONNECTOR OC | 53-2216G |
| ㉑ | 5 | 41.57 | ROUTE 5/405 SEPARATION | 53-1133 |

| | | | | | |
|--|---|---------------------------------------|--------------------------------------|---------------------------|----------------------------|
| STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | Caltrans MAINTENANCE ENGINEERING | FUNCTIONAL SUPERVISOR DEBORAH WONG | CALCULATED/DESIGNED BY CHECKED BY | JOHN ZAKI DEBORAH WONG | REVISED BY DATE REVISED |
|--|---|---------------------------------------|--------------------------------------|---------------------------|----------------------------|

LOCATIONS OF CONSTRUCTION LC-1

LAST REVISION | DATE PLOTTED => 26-JAN-2012
 01-30-12 | TIME PLOTTED => 10:46

| | | | | | |
|------|--------|-------------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 07 | LA | 5, 134, 405 | Var | 3 | 37 |

John T. Zaki 01-19-12
 REGISTERED CIVIL ENGINEER DATE

01-30-12
 PLANS APPROVAL DATE

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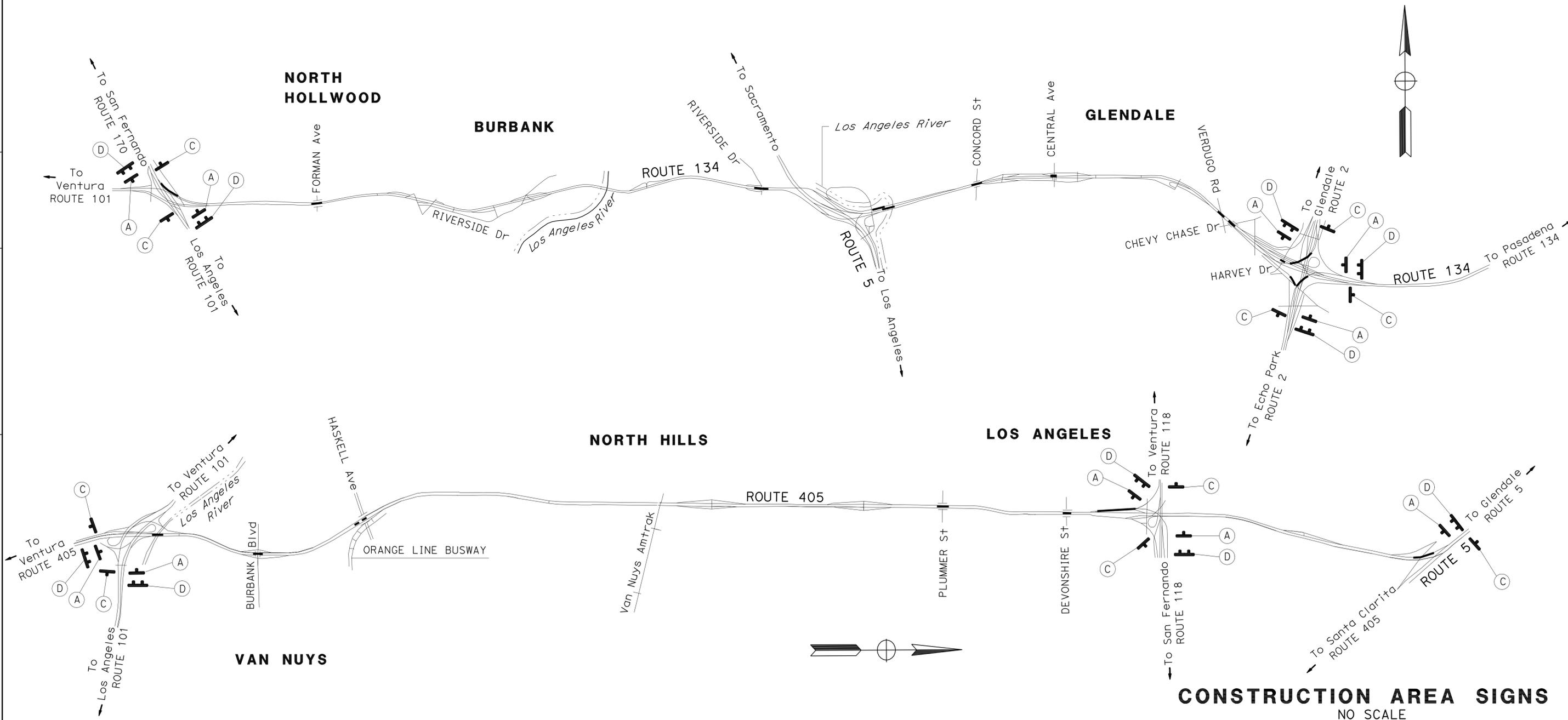
REGISTERED PROFESSIONAL ENGINEER
JOHN ZAKI
 No. C63665
 Exp. 9-30-12
 CIVIL
 STATE OF CALIFORNIA

NOTES:

- "TRAFFIC FINES DOUBLED IN WORK ZONES" SIGNS SHALL BE PLACED APPROXIMATELY 500 FEET IN ADVANCE OF "ROAD WORK AHEAD" SIGNS OR AS DETERMINED BY THE ENGINEER.
- LOCATIONS OF CONSTRUCTION AREA SIGNS AS SHOWN ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
- EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THIS PLAN.

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING
 FUNCTIONAL SUPERVISOR: DEBORAH WONG
 CALCULATED/DESIGNED BY: JOHN ZAKI
 CHECKED BY: DEBORAH WONG
 REVISED BY: DEBORAH WONG
 DATE REVISED:



CONSTRUCTION AREA SIGNS
NO SCALE

CS-1

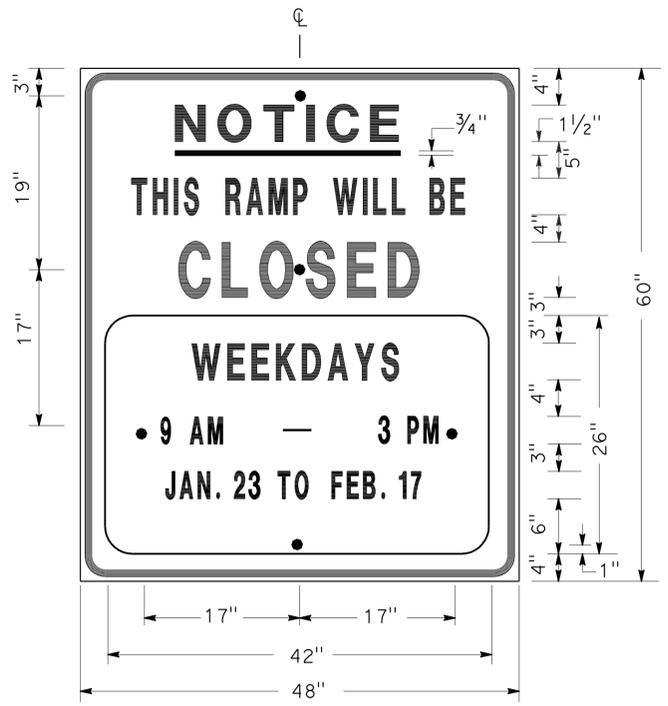
APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

| | | | | | |
|------|--------|-------------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
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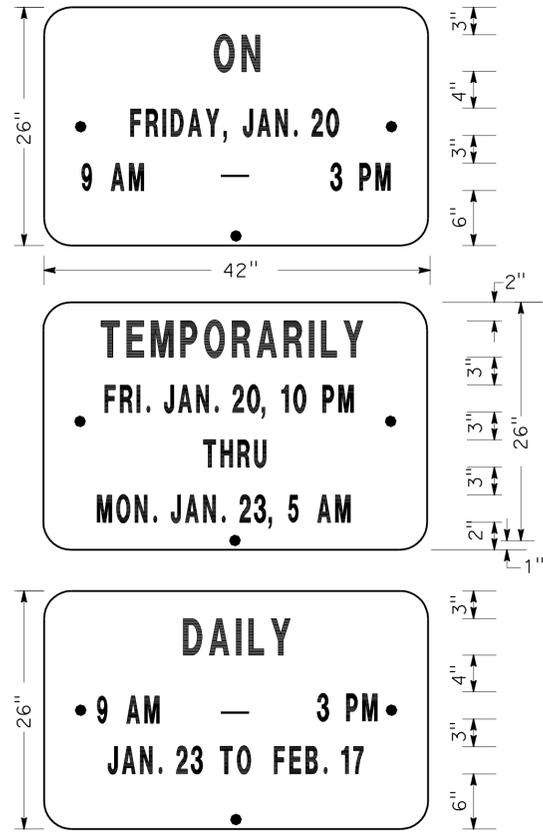
REGISTERED CIVIL ENGINEER
 DATE: 08-1-11
 No. C56816
 Exp. 6-30-13
 CIVIL

Martin Oregel
 REGISTERED CIVIL ENGINEER
 DATE: 01-30-12
 PLANS APPROVAL DATE

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



SIGN SP-1



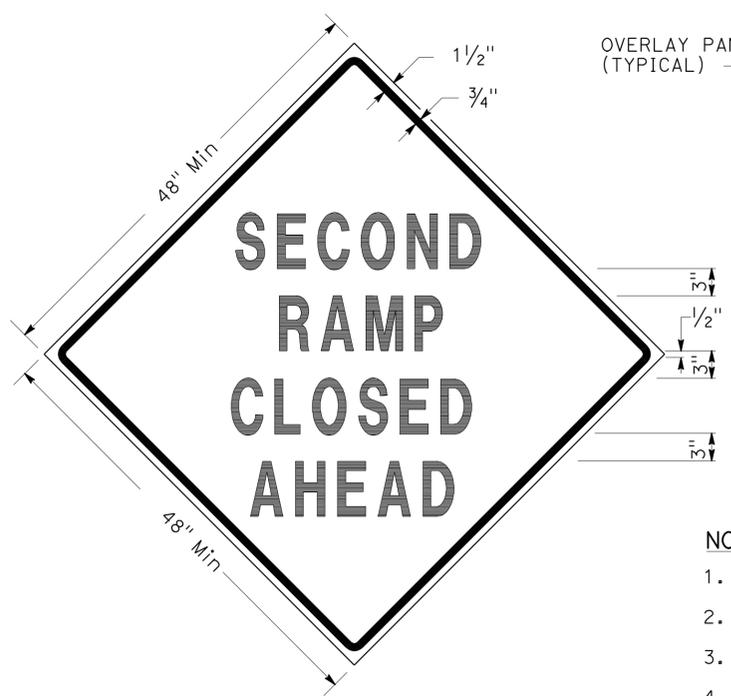
ALTERNATE OVERLAY PANELS (TYPICAL)

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

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

* CONDENSED SPACING IF NECESSARY

SPECIAL ADVANCE NOTICE PUBLICITY SIGN



SIGN SP-3

SPECIAL SIGN FOR EXIT RAMP CLOSURES

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



SIGN SP-5



SIGN SP-4

- NOTES: (SIGN SP-4)
- LETTERS - 6" SERIES C.
 - LETTERS AND BORDERS - BLACK ON RETROREFLECTORIZED WHITE BACKGROUND.
 - BASE MATERIAL SHALL BE ALUMINUM (MINIMUM 0.06").
 - SIGNS SHALL BE PLACED AT RAMP ENTRANCES IN ADDITION TO SIGNS POSTED IN ACCORDANCE WITH STANDARD PLAN T14.

SPECIAL SIGN FOR ENTRANCE RAMP CLOSURES

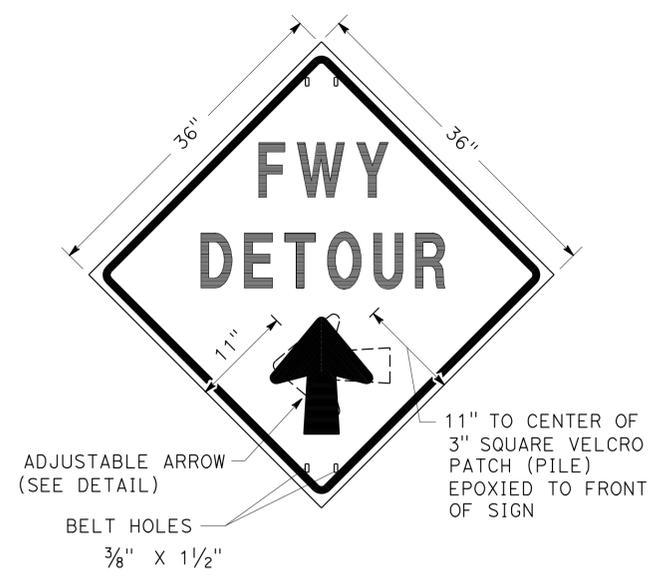
**TRAFFIC HANDLING DETAILS
 TRAFFIC CONTROL SYSTEM
 FOR RAMP CLOSURES, DETOUR SIGNS
 AND MISCELLANEOUS DETAILS**

SHEET 1 OF 2

NO SCALE

THD-1

| | | | | | |
|--|--------|-------------|--|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 07 | LA | 5, 134, 405 | Var | 5 | 37 |
| <i>Martin Oregel</i> 08-1-11 REGISTERED CIVIL ENGINEER DATE | | | REGISTERED PROFESSIONAL ENGINEER MARTIN OREGEL No. C56816 Exp. 6-30-13 CIVIL STATE OF CALIFORNIA | | |
| 01-30-12 PLANS APPROVAL DATE | | | | | |
| <small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small> | | | | | |



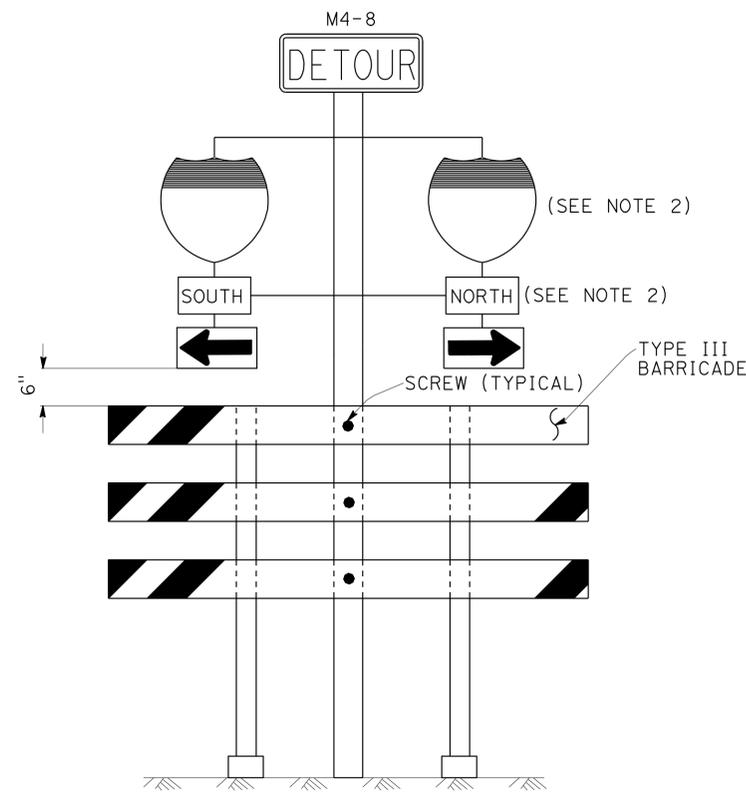
SIGN SP-2

NOTES: (SIGN SP-2)

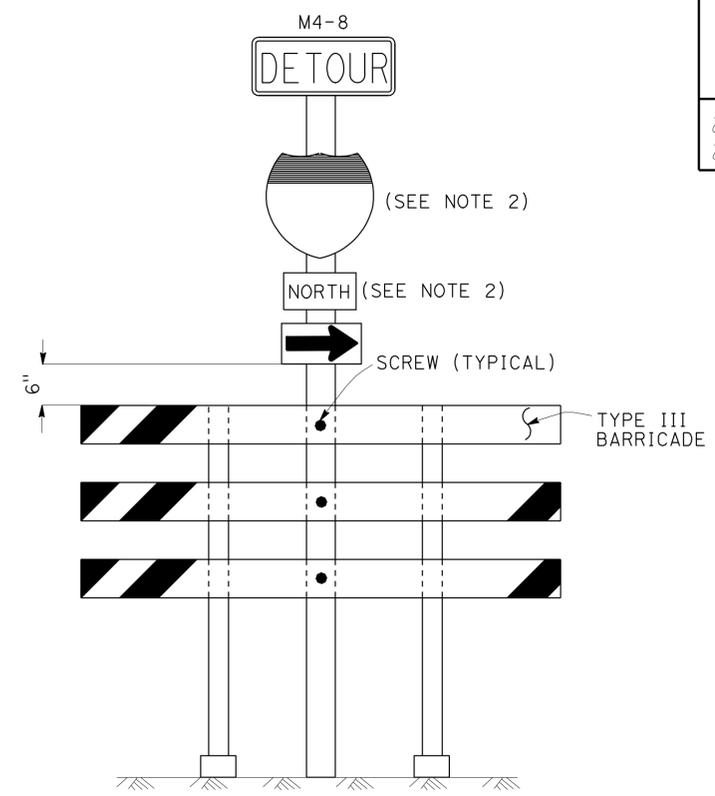
- 1.LETTERS -6" SERIES E.
- 2.LETTERS, BORDER AND ARROW - BLACK ON RETROREFLECTORIZED ORANGE BACKGROUND.
- 3.BASE MATERIAL FOR SIGNS AND ARROWS SHALL BE ALUMINUM (MINIMUM 0.06").
- 4.BELTS (LUGGAGE STRAPS) SHALL BE 1" WIDE BY 48" LONG, MADE OF COTTON OR POLYPROPYLENE WEB MATERIAL.
- 5.SIGNS SHALL BE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

ABBREVIATION

(CA) CALIFORNIA CODE



SIGN SP-6 (SEE NOTE 1)

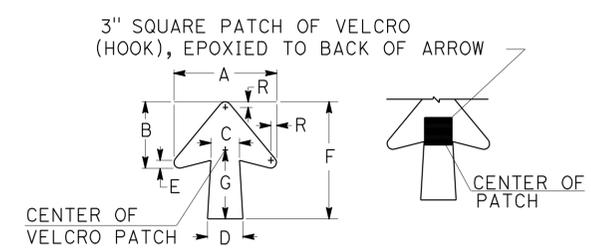


SIGN SP-7 (SEE NOTE 1)

NOTES: (SIGNS SP-6 & SP-7)

- 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 SHIELD [G26-2(CA), G27-2(CA), G28-2(CA)] AND CARDINAL DIRECTION [NORTH (M3-1), SOUTH (M3-3), EAST (M3-2), WEST (M3-4)]

SPECIAL PORTABLE FREEWAY DETOUR SIGNS



ADJUSTABLE ARROW DETAIL

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

SPECIAL PORTABLE FREEWAY DETOUR SIGN

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

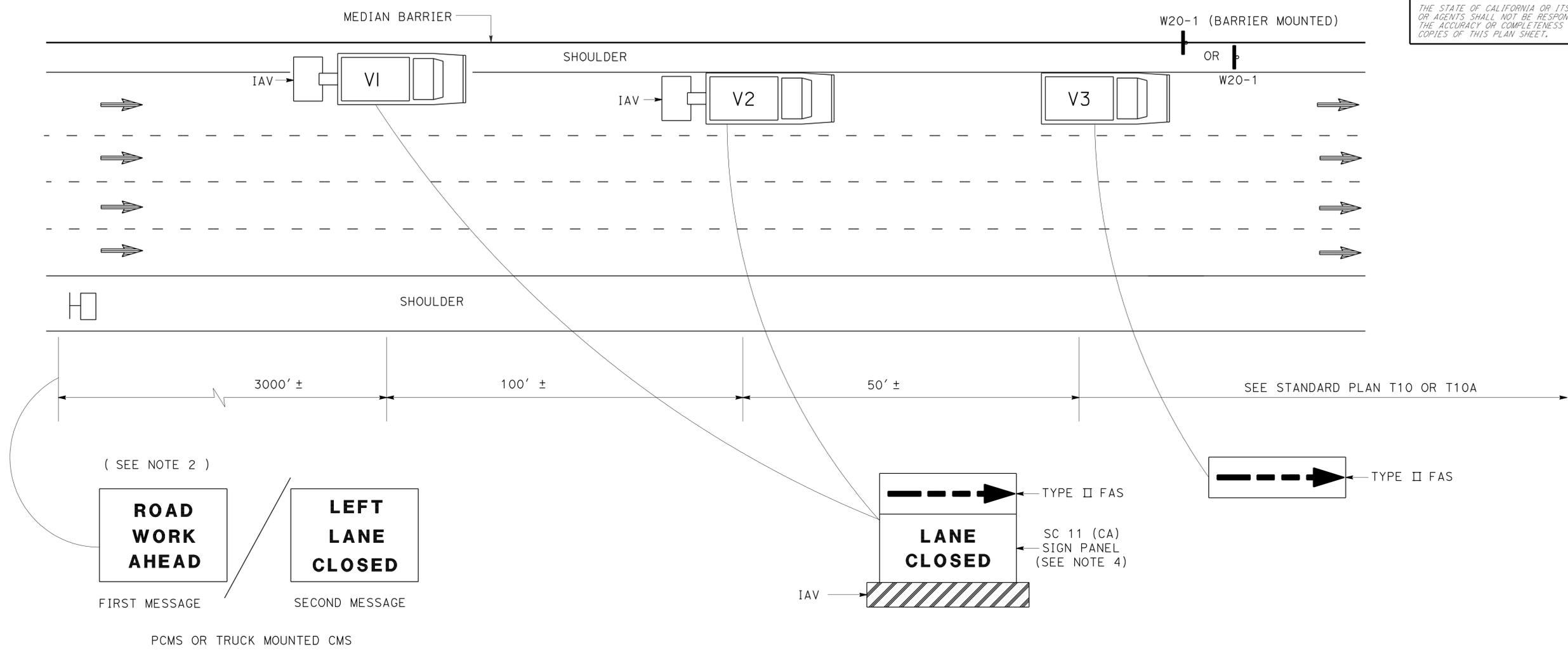
SHEET 2 OF 2
NO SCALE

THD-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DTM
ALBERT K YU
JOCELYN C CHIANG
MARTIN OREGEL

01-30-12 10:46

| | | | | | |
|---|--------|-------------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 07 | LA | 5, 134, 405 | Var | 6 | 37 |
| <i>Martin Oregel</i> 08-1-11 REGISTERED CIVIL ENGINEER DATE | | | | | |
| 01-30-12 PLANS APPROVAL DATE | | | | | |
| THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET. | | | | | |



NOTES:

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

LEGEND

- V1, V2 SHADOW VEHICLE
- V3 WORK/APPLICATION VEHICLE
- PCMS PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
- DIRECTION OF TRAVEL
- ▬ CONSTRUCTION AREA SIGN

ABBREVIATIONS

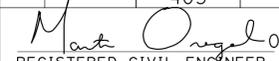
- FAS FLASHING ARROW SIGN
- IAV IMPACT ATTENUATOR VEHICLE
- CMS CHANGEABLE MESSAGE SIGN
- PCMS PORTABLE CHANGEABLE MESSAGE SIGN
- (CA) CALIFORNIA CODE

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

THD-3

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

LAST REVISION: DATE PLOTTED => 26-JAN-2012
 01-30-12 TIME PLOTTED => 10:46

| | | | | | |
|--|--------|-------------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 07 | LA | 5, 134, 405 | Var | 7 | 37 |
|  | | | 08-1-11 | | |
| REGISTERED CIVIL ENGINEER | | | DATE | | |
| 01-30-12 | | | PLANS APPROVAL DATE | | |
|  | | | | | |
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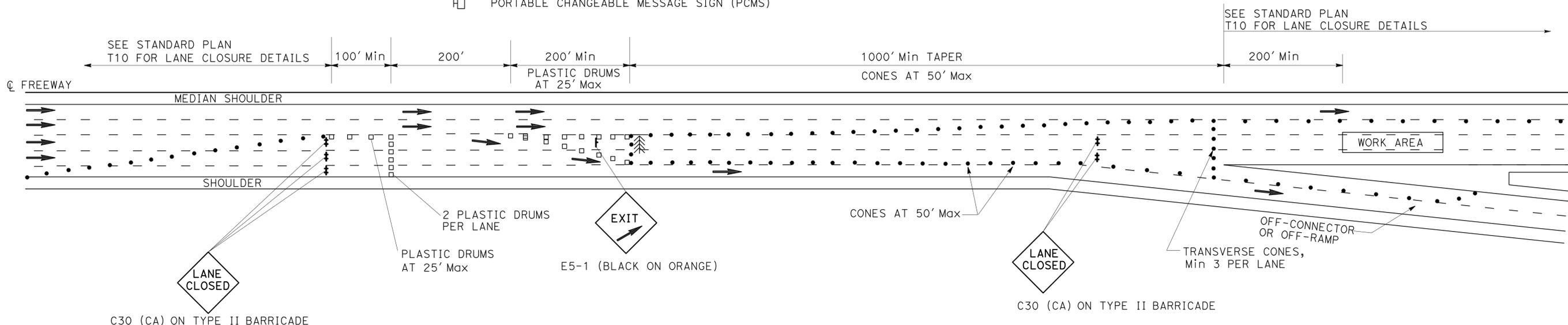
LEGEND

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

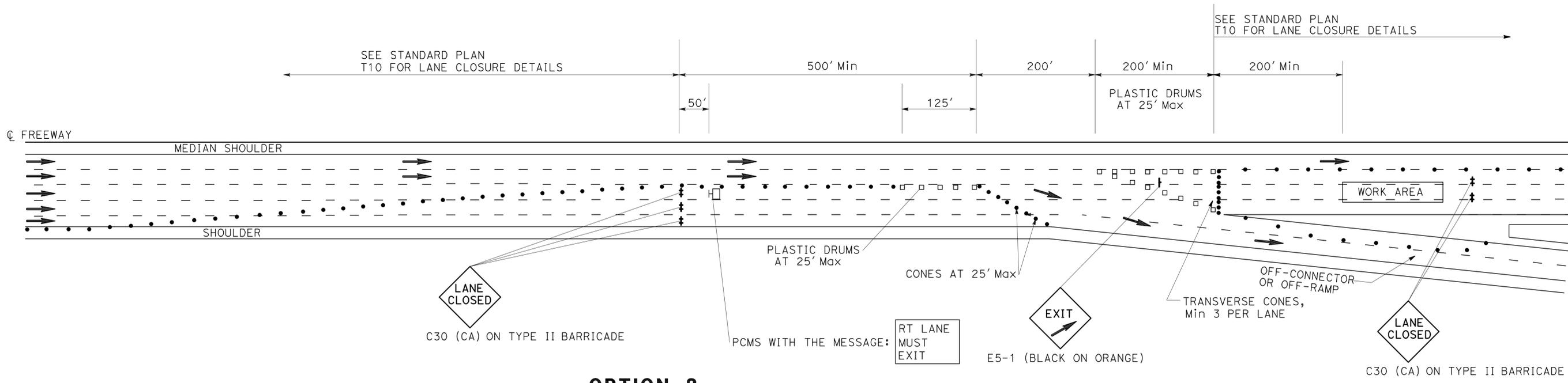
ABBREVIATIONS

(CA) CALIFORNIA CODE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DT M
 FUNCTIONAL SUPERVISOR
 MARTIN OREGEL
 CALCULATED/DESIGNED BY
 CHECKED BY
 ALBERT K YU
 JOCELYN C CHIANG
 REVISED BY
 DATE REVISED
 JC
 7/10



OPTION 1



OPTION 2

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

THD-4

LAST REVISION DATE PLOTTED => 26-JAN-2012
 01-30-12 TIME PLOTTED => 10:46

| | | | | | |
|------|--------|-------------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 07 | LA | 5, 134, 405 | Var | 8 | 37 |

08-1-11
 REGISTERED CIVIL ENGINEER DATE
 01-30-12
 PLANS APPROVAL DATE
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NOTES:

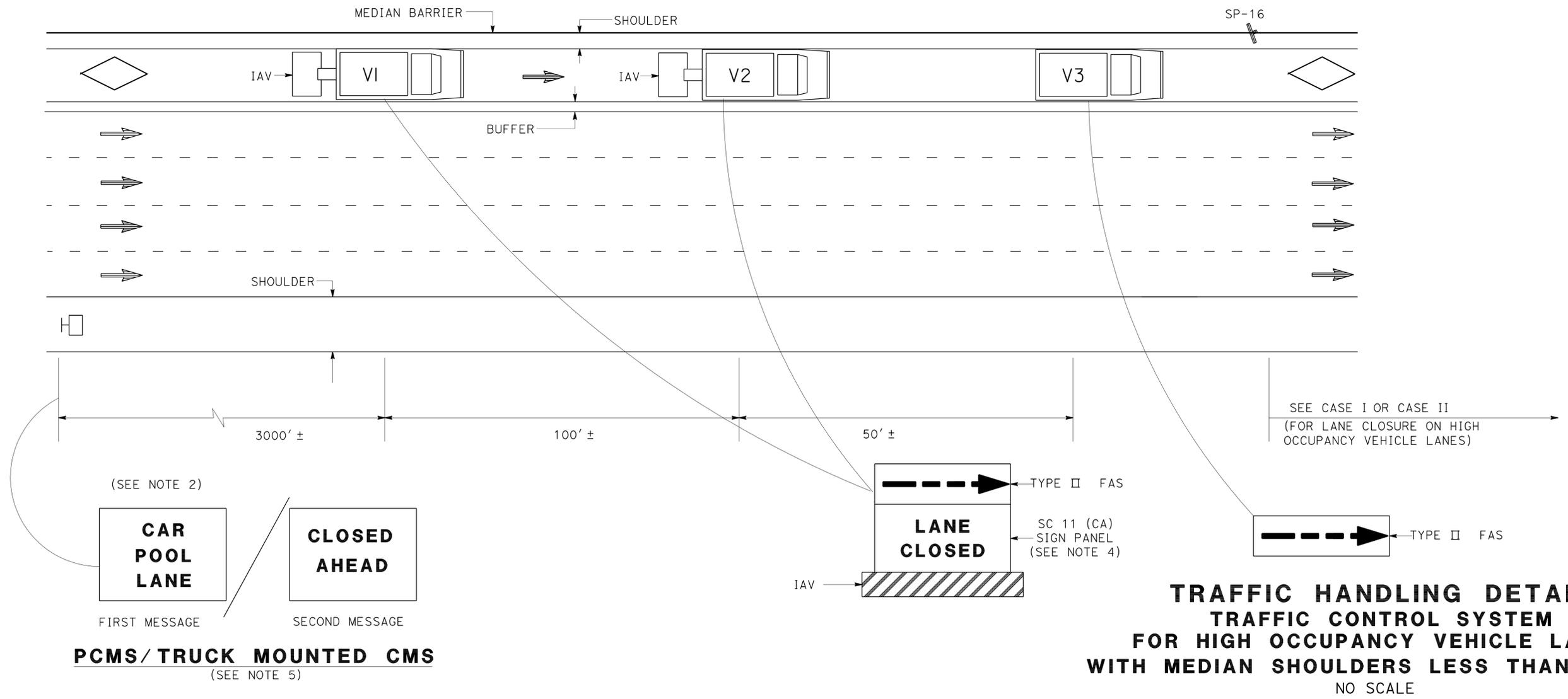
- LANE CLOSURES SHALL NOT BE PLACED ON CREST VERTICAL CURVES OR ON HORIZONTAL CURVES.
- PCMS SHALL BE ACTIVATED PRIOR TO TRAFFIC CONTROL ACTIVITIES ON THE HOV LANE.
- A MINIMUM SIGHT DISTANCE OF 1500' SHALL BE PROVIDED IN ADVANCE OF PCMS.
- VEHICLE-MOUNTED SIGN PANELS SHALL BE TYPE III OR IV RETROREFLECTORIZED SHEETING, BLACK ON WHITE OR BLACK ON ORANGE WITH 8" MINIMUM SERIES D LETTERS PER CALTRANS SIGN SPECIFICATIONS.
- PLACE PCMS ON THE MEDIAN SHOULDER WHERE SUFFICIENT ROOM (SUCH AS CHP ENFORCEMENT AREAS) EXISTS.

LEGEND

- V1, V2 SHADOW VEHICLE
- V3 WORK/APPLICATION VEHICLE
- [Symbol] PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
- [Symbol] DIRECTION OF TRAVEL
- [Symbol] HOV LANE

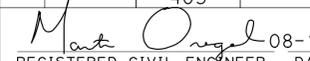
ABBREVIATIONS

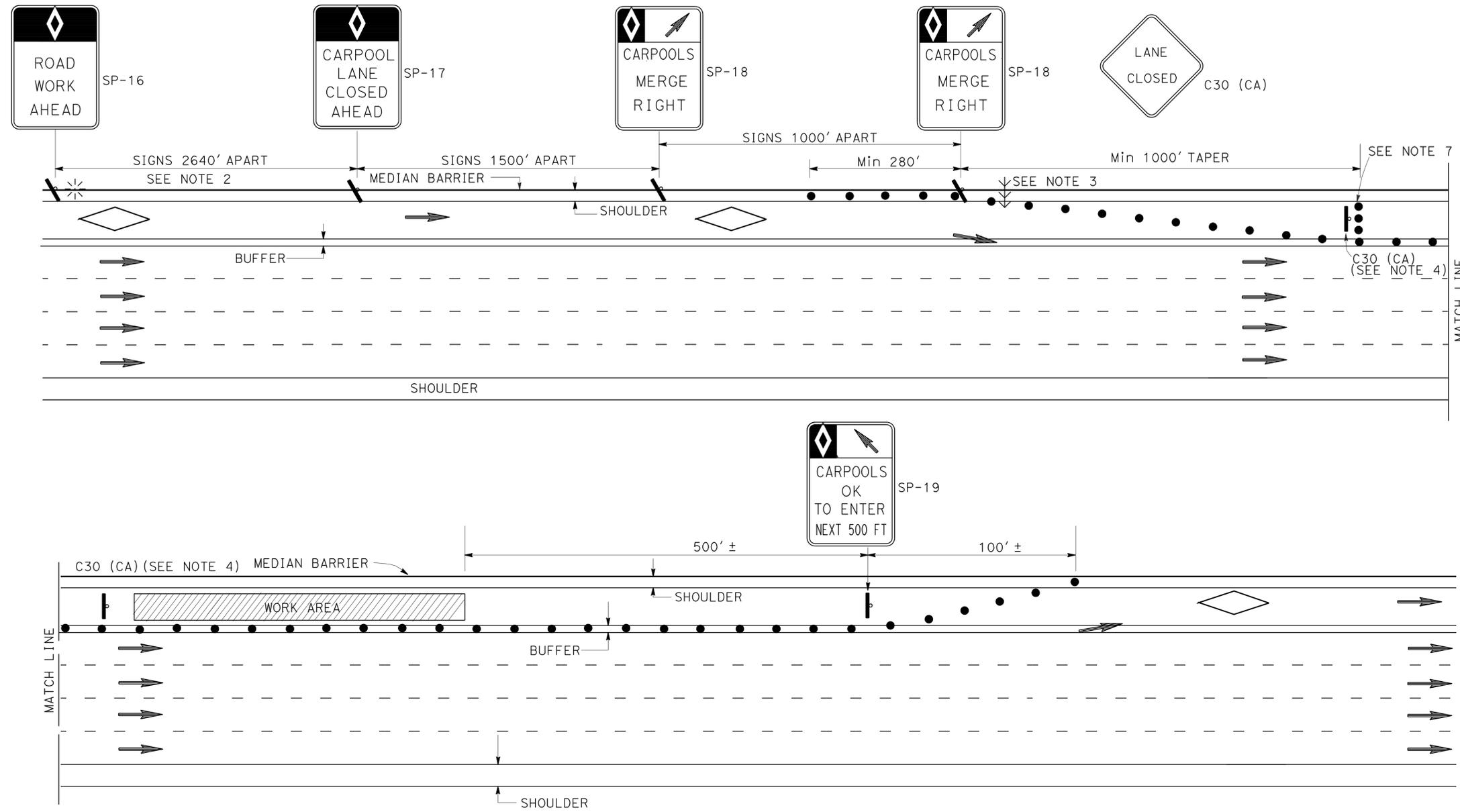
- FAS FLASHING ARROW SIGN
- IAV IMPACT ATTENUATOR VEHICLE
- CMS CHANGEABLE MESSAGE SIGN
- (CA) CALIFORNIA CODE
- PCMS PORTABLE CHANGEABLE MESSAGE SIGN
- HOV HIGH OCCUPANCY VEHICLE



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DTM
 FUNCTIONAL SUPERVISOR: MARTIN OREGEL
 REVISIONS: JC 7/10
 REVISOR: ALBERT K YU
 CHECKER: JOCELYN C CHIANG
 CALCULATED/DESIGNED BY: [Blank]
 CHECKED BY: [Blank]

LAST REVISION: DATE PLOTTED => 26-JAN-2012
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|  REGISTERED CIVIL ENGINEER DATE 08-1-11 | | |  | | |
| 01-30-12 PLANS APPROVAL DATE | | | | | |
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NOTES: FOR CASE I AND CASE II

- 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.
- 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 SIGNS DURING NIGHT LANE CLOSURES. FLAGS AND WARNING LIGHTS SHALL BE ATTACHED TO SIGNS AS APPROVED BY THE ENGINEER.
- THE FLASHING ARROW SIGN SHALL BE TYPE I.
- PLACE C30 (CA) SIGNS EVERY 2000' THROUGHOUT THE LENGTH OF LANE CLOSURE.
- 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.
- PORTABLE DELINEATORS PLACED AT ONE-HALF THE SPACING INDICATED FOR TRAFFIC CONES MAY BE USED INSTEAD OF CONES FOR DAYTIME CLOSURES.
- 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.
- 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.
- SIGNS SP-16, 17, 18, AND 19 MAY BE OVERLAID ON EXISTING CARPOOL SIGNS IN MEDIANS AS APPROVED BY THE ENGINEER.
- 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.
- FOR CLOSURE OF LANE(S) ADJACENT TO HOV LANES, SEE CASE II.
- THE MAXIMUM SPACING BETWEEN CONES SHALL BE APPROXIMATELY 50' IN TAPERS AND 100' ON TANGENTS.

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" |

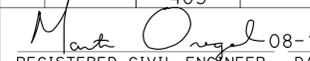
**TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM
FOR HIGH OCCUPANCY VEHICLE LANES
AT NON-INGRESS/EGRESS AREAS**

**CASE I
NO SCALE**

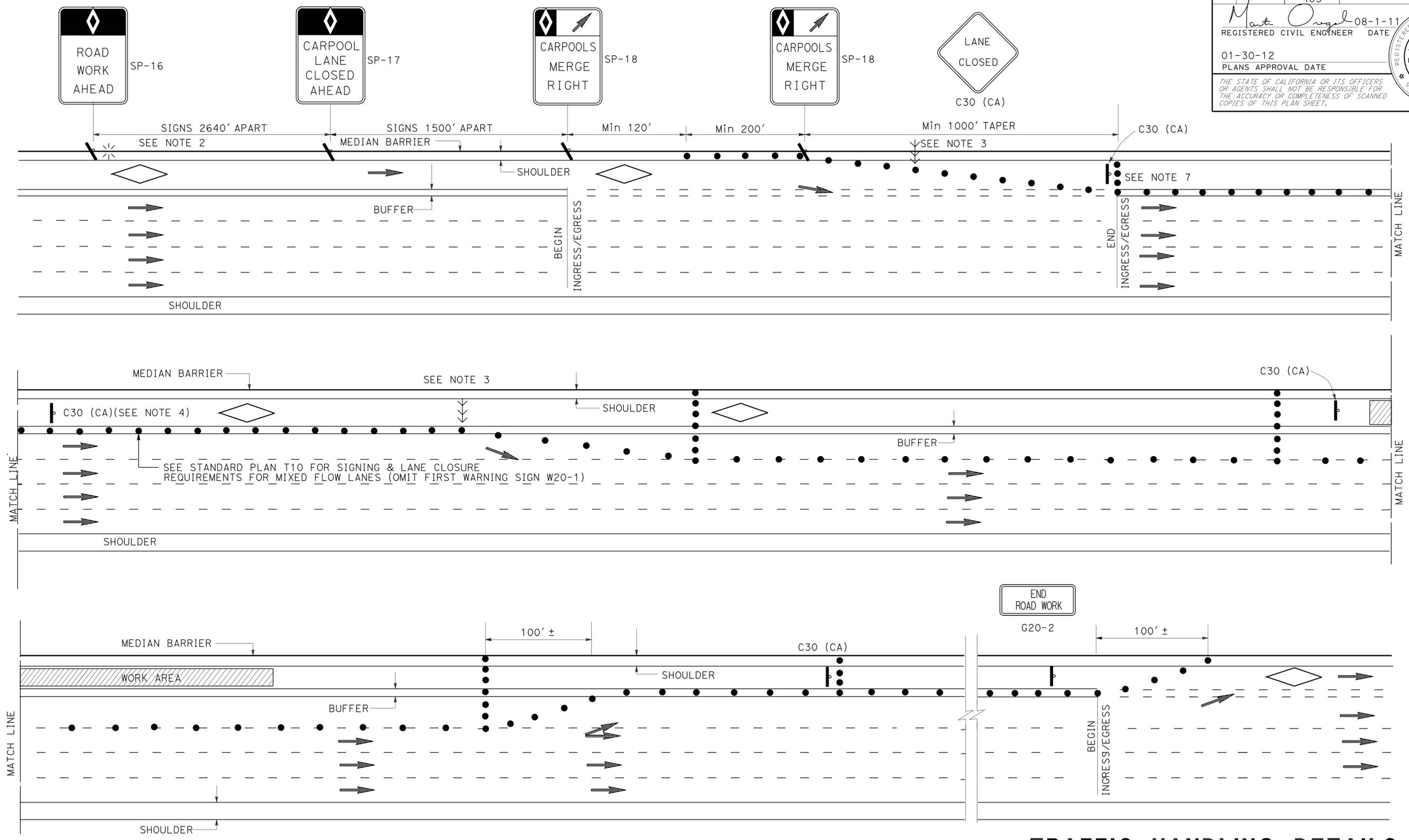
THD-6

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

LAST REVISION: 01-30-12
 DATE PLOTTED => 26-JAN-2012
 TIME PLOTTED => 10:46

| | | | | | |
|--|--------|-------------|---|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 07 | LA | 5, 134, 405 | Var | 10 | 37 |
|  REGISTERED CIVIL ENGINEER DATE 08-1-11 | | |  | | |
| 01-30-12 PLANS APPROVAL DATE | | | | | |
| <small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small> | | | | | |

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DT M
 FUNCTIONAL SUPERVISOR
 MARTIN OREGEL
 CHECKED BY
 JOCELYN C CHIANG
 REVISIONS BY
 ALBERT K YU
 DATE REVISIONS
 7/10
 JC



- NOTES:**
- SEE CASE I FOR NOTES, LEGENDS AND ABBREVIATIONS FOR THIS SHEET.
 - CLOSURES OF ONE MIXED FLOW TRAFFIC LANE ADJACENT TO HOV LANE SHOWN. 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-7

LAST REVISION DATE PLOTTED => 26-JAN-2012
 01-30-12 TIME PLOTTED => 10:46

| | | | | | |
|--|--------|-------------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 07 | LA | 5, 134, 405 | Var | 11 | 37 |
| <i>Martin Oregel</i> 08-1-11 REGISTERED CIVIL ENGINEER DATE | | | | | |
| 01-30-12 PLANS APPROVAL DATE | | | | | |
| <small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small> | | | | | |

NOTES:

- WORDING DISPLAYED ON PCMS WILL BE APPROVED BY THE ENGINEER.
- EXACT LOCATIONS OF PCMS WILL BE DETERMINED BY THE ENGINEER.
- CHANGE PCMS MESSAGE AT THE BEGINNING OF CURE PERIOD TO REFLECT NUMBER OF CLOSED LANES.

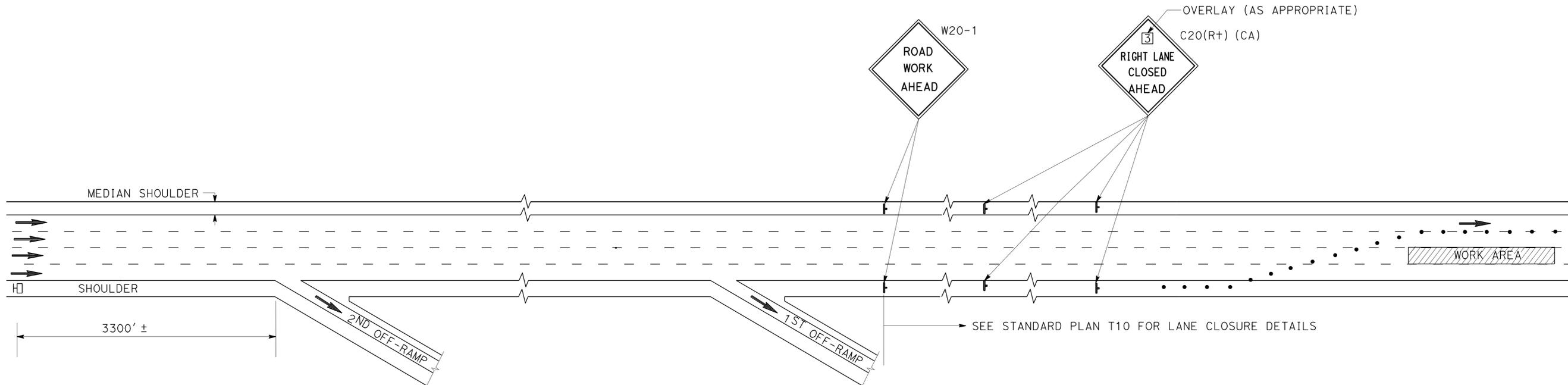
ABBREVIATIONS

PCMS PORTABLE CHANGEABLE MESSAGE SIGN
(CA) CALIFORNIA CODE

LEGEND

- CONE
- ⊥ PORTABLE SIGN
- ➔ DIRECTION OF TRAVEL
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
- (CA) CALIFORNIA CODE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DTM
 FUNCTIONAL SUPERVISOR
 MARTIN OREGEL
 CALCULATED/DESIGNED BY
 CHECKED BY
 ALBERT K YU
 JOCELYN C CHIANG
 REVISED BY
 DATE REVISED
 JC
 7/10



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

WORDING FOR PORTABLE CHANGEABLE MESSAGE SIGN

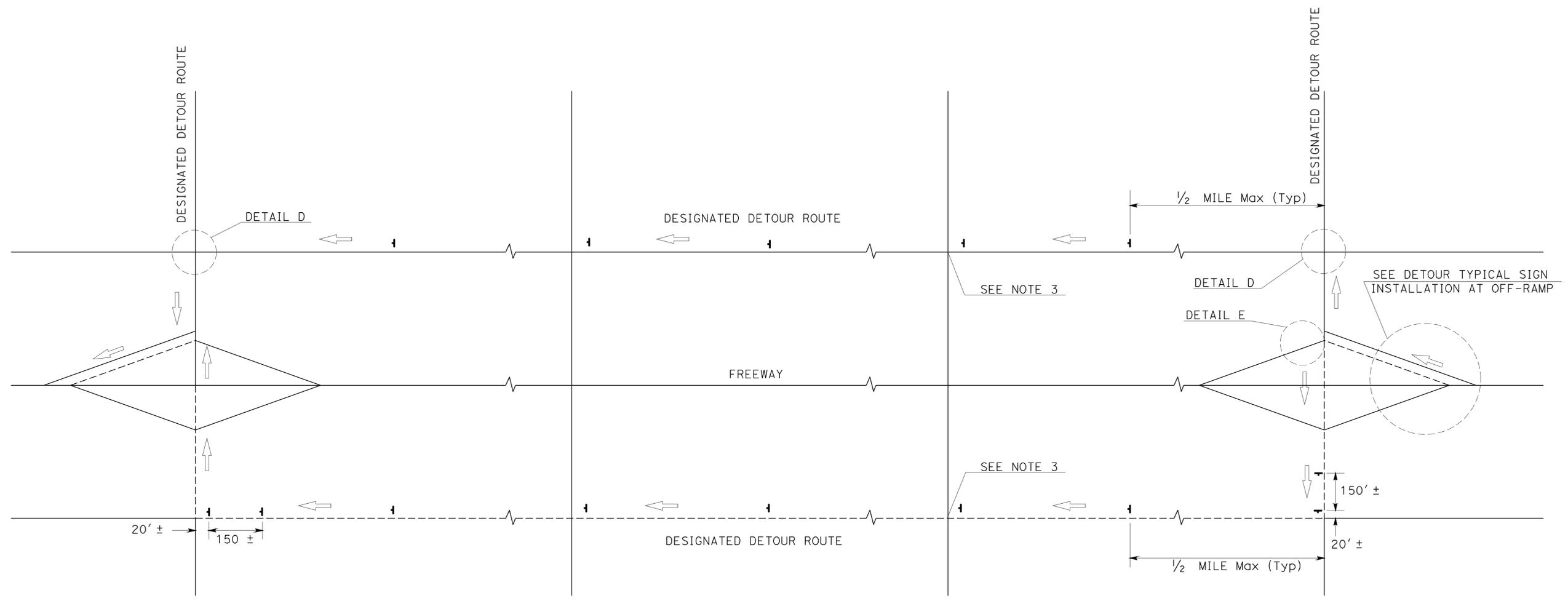
**TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM
FOR CONCRETE PAVEMENT AND
APPROACH SLAB REPLACEMENT
NO SCALE**

THD-8

| | | | | | |
|--|--------|-------------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 07 | LA | 5, 134, 405 | Var | 12 | 37 |
| <i>Martin Oregel</i> 08-1-11 REGISTERED CIVIL ENGINEER DATE | | | | | |
| 01-30-12 | | | PLANS APPROVAL DATE | | |
| <small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small> | | | | | |

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DTM

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



TYPICAL DETOUR SIGN INSTALLATION ALONG DESIGNATED DETOUR ROUTE

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

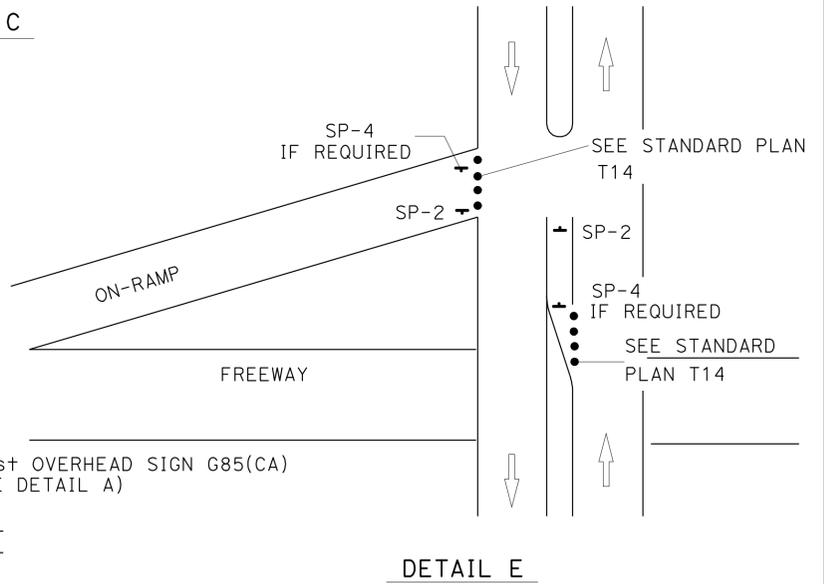
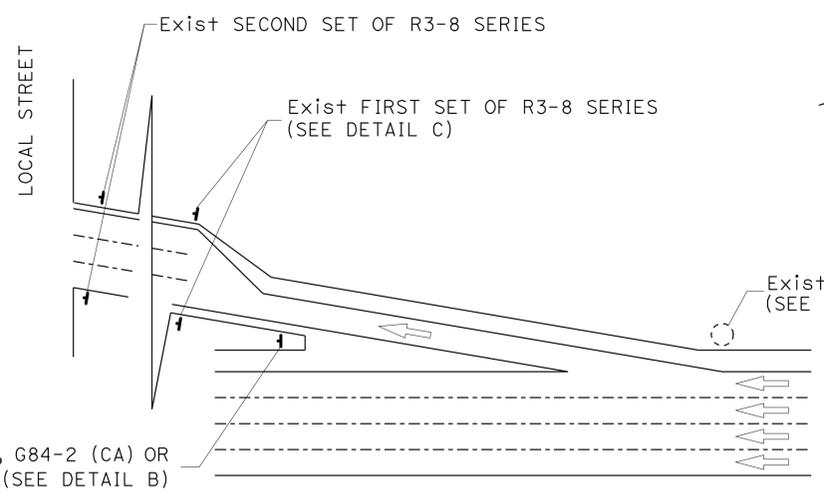
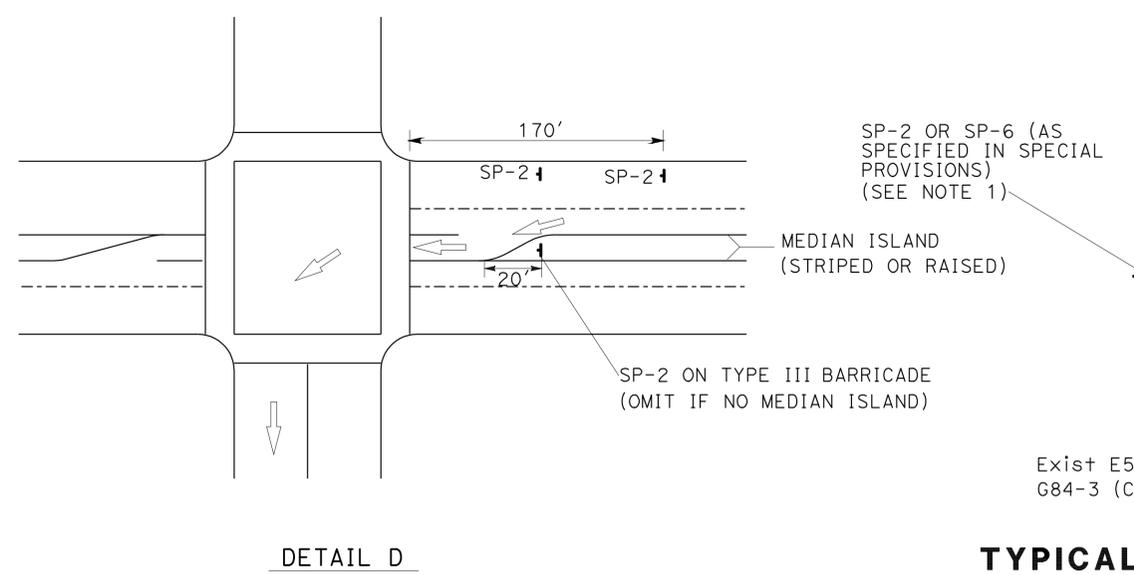
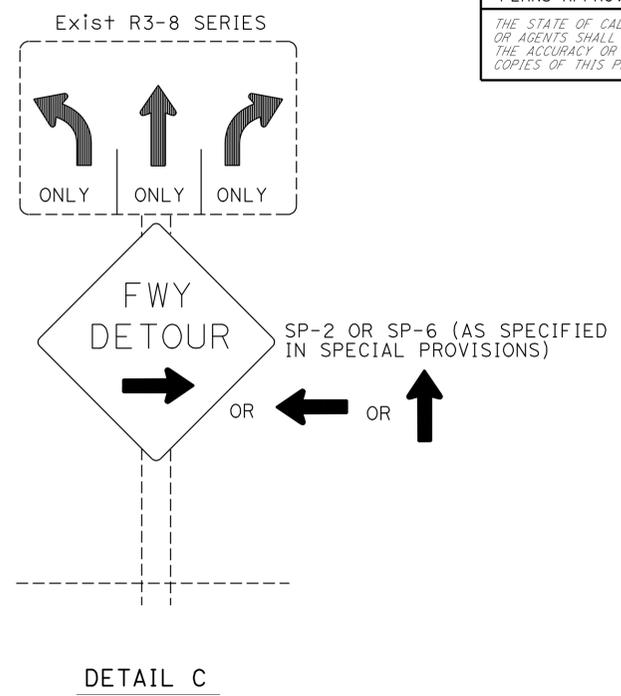
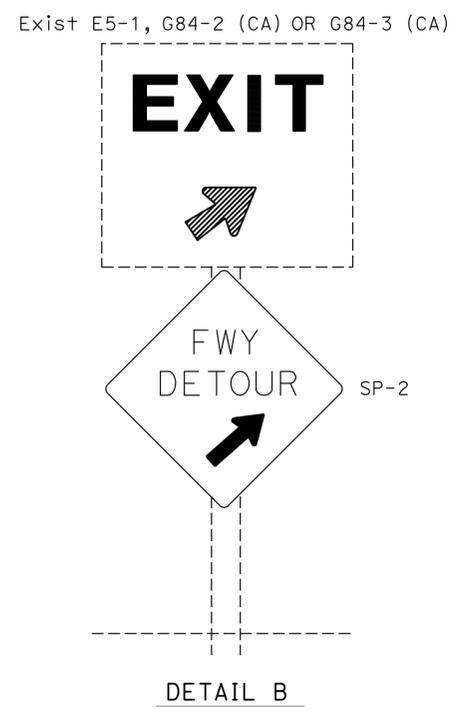
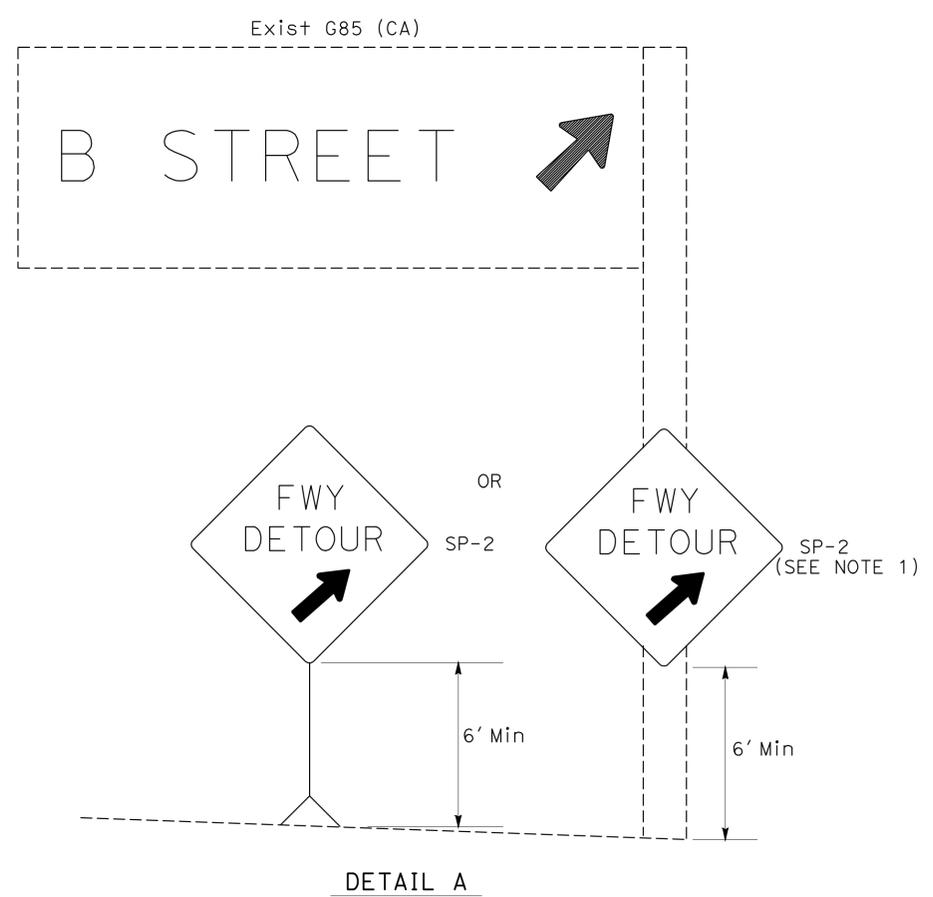
- NOTES:**
1. SP-2 SIGNS SHALL NOT BE INSTALLED ON BARRICADES EXCEPT AS OTHERWISE SHOWN.
 2. SIGN LOCATIONS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
 3. SP-2 SIGNS SHALL BE POSTED AT SIGNALIZED INTERSECTIONS ALONG THE DESIGNATED DETOUR ROUTE OR 1/2 MILE MAXIMUM APART.

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

THD-9

LAST REVISION: DATE PLOTTED => 26-JAN-2012 TIME PLOTTED => 10:47
 01-30-12

| | | | | | |
|--|--------|-------------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 07 | LA | 5, 134, 405 | Var | 13 | 37 |
| Martin Oregel 08-1-11 REGISTERED CIVIL ENGINEER DATE | | | | | |
| 01-30-12 | | | PLANS APPROVAL DATE | | |
| <small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small> | | | | | |



TYPICAL DETOUR SIGN INSTALLATION AT OFF-RAMP

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

ABBREVIATIONS
(CA) CALIFORNIA CODE

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

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

THD-10

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

LAST REVISION DATE PLOTTED => 26-JAN-2012
 01-30-12 TIME PLOTTED => 10:47

| | | | | | |
|------|--------|-------------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 07 | LA | 5, 134, 405 | Var | 14 | 37 |

John T. Zaki 01-19-12
REGISTERED CIVIL ENGINEER DATE

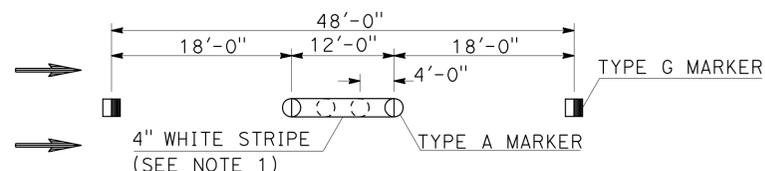
01-30-12
PLANS APPROVAL DATE

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

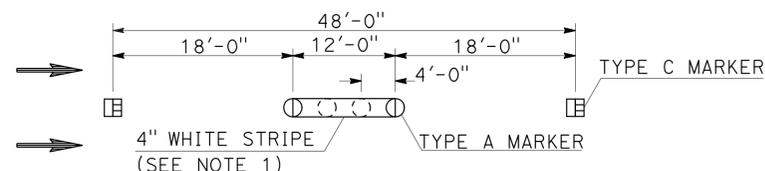
REGISTERED PROFESSIONAL ENGINEER
JOHN ZAKI
No. C63665
Exp. 9-30-12
CIVIL
STATE OF CALIFORNIA

NOTES:

1. APPLY 4" WIDE THERMOPLASTIC TRAFFIC STRIPE ON TOP OF TYPE A NON-REFLECTIVE MARKERS.
2. NO SCALE



DETAIL 13 (MODIFIED)



DETAIL 14 (MODIFIED)

PAVEMENT DELINEATION QUANTITIES

| LOCATION | ROUTE | POST MILE | BRIDGE No. | BRIDGE NAME | THERMOPLASTIC TRAFFIC STRIPE | | | | | PAVEMENT MARKER | | | REMOVE | REMOVE | | | | |
|-------------|-------|-----------|------------|--------------------------|------------------------------|-------------------|--------------------|-------------------|----------------------------|-----------------------|-----------------|-----------|--------|-------------------------------------|--------------------|--|---------------------------------|-------------------------------------|
| | | | | | Det+36 | Det+36 A | Det+ | Det+ 27B | Det+ 13/14 | TYPE A NON REFLECTIVE | RETROREFLECTIVE | | | THERMOPLASTIC PAVEMENT MARKING SQFT | PAVEMENT MARKER EA | YELLOW THERMOPLASTIC TRAFFIC STRIPE LF | THERMOPLASTIC TRAFFIC STRIPE LF | THERMOPLASTIC PAVEMENT MARKING SQFT |
| | | | | | 8" SOLID WHITE LF | 8" SOLID WHITE LF | 4" SOLID YELLOW LF | 4" SOLID WHITE LF | 4" BROKEN WHITE (36-12) LF | | TYPE G EA | TYPE H EA | | | | | | |
| ① | 134 | 0.03 | 53-1452F | W134 - N170 CONNECTOR UC | | | 224 | 224 | 224 | 38 | 10 | 6 | | 54 | 224 | 280 | | |
| ② | 134 | 1.36 | 53-1276 | EB FORMAN Ave UC | | | 453 | 302 | 453 | 51 | 14 | 8 | | 22 | 453 | 415 | | |
| | | | | WB FORMAN Ave UC | | | 453 | 302 | 453 | 51 | 14 | 8 | | 22 | 453 | 415 | | |
| ③ | 134 | 4.81 | 53-1287 | NB RIVERSIDE DRIVE OC | | | 144 | 144 | 144 | 25 | 7 | 4 | | 36 | 144 | 180 | | |
| | | | | SB RIVERSIDE DRIVE OC | | | 144 | 144 | 144 | 25 | 7 | 4 | 68 | 36 | 144 | 180 | 68 | |
| ④ | 134 | 5.67 | 53-1790 | LOS ANGELES RIVER BOH | 500 | | 1,511 | 1,511 | 4,533 | 505 | 127 | 32 | 72 | 664 | 1,511 | 2,645 | 72 | |
| ⑤ | 134 | 5.67 | 53-1790H | W134- 5 CONNECTOR BOH | 1,000 | | 2,831 | 2,831 | 8,493 | 945 | 237 | 60 | 612 | 1,242 | 2,831 | 4,954 | 612 | |
| ⑥ | 134 | 6.18 | 53-1744 | EB CONCORD STREET UC | | 306 | 459 | 306 | 612 | 65 | 17 | 8 | | 90 | 459 | 459 | | |
| | | | | WB CONCORD STREET UC | 306 | | 459 | 306 | 764 | 77 | 20 | 8 | 90 | 105 | 459 | 497 | 90 | |
| ⑦ | 134 | 6.96 | 53-1748 | NB CENTRAL Ave OC | | | 183 | 183 | 183 | 32 | 9 | 5 | 252 | 46 | 183 | 229 | 252 | |
| | | | | SB CENTRAL Ave OC | | | 183 | 183 | 183 | 32 | 9 | 5 | 204 | 46 | 183 | 229 | 204 | |
| ⑧ | 134 | 8.23 | 53-1863 | EB VERDUGO Rd SEPARATION | | | 975 | 650 | 1,301 | 136 | 35 | 16 | | 187 | 975 | 975 | | |
| | | | | WB VERDUGO Rd SEPARATION | | | 325 | 325 | 1,301 | 136 | 35 | 8 | | 179 | 325 | 650 | | |
| ⑨ | 134 | 8.35 | 53-1866 | NB CHEVY CHASE Dr UC | | 448 | 672 | 448 | 672 | 76 | 20 | 12 | | 108 | 672 | 616 | | |
| | | | | SB CHEVY CHASE Dr UC | | | 672 | 448 | 896 | 94 | 24 | 12 | | 130 | 672 | 672 | | |
| ⑩ | 134 | 8.81 | 53-1884 | EB HARVEY Dr UC | | | 489 | 326 | 489 | 55 | 15 | 8 | | 78 | 489 | 448 | | |
| | | | | WB HARVEY Dr UC | | | 489 | 326 | 489 | 55 | 15 | 8 | | 78 | 489 | 448 | | |
| SUB TOTAL | | | | | 1,806 | 754 | 10,666 | 8,959 | 21,334 | 2,398 | 615 | 212 | 1,298 | 3,123 | 10,666 | 14,292 | 1,298 | |
| SHEET TOTAL | | | | | 2,560 | | 19,625 | | 21,334 | 2,398 | 827 | | 1,298 | 3,123 | 10,666 | 14,292 | 1,298 | |

PAVEMENT DELINEATION QUANTITIES

PDQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: DEBORAH WONG

CALCULATED/DESIGNED BY: JOHN ZAKI

CHECKED BY: DEBORAH WONG

REVISOR BY: DEBORAH WONG

DATE REVISED: []

| | | | | | |
|------|--------|-------------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 07 | LA | 5, 134, 405 | Var | 15 | 37 |

John T. Zaki 01-19-12
 REGISTERED CIVIL ENGINEER DATE
 01-30-12
 PLANS APPROVAL DATE

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

PAVEMENT DELINEATION QUANTITIES

| LOCATION | ROUTE | POST MILE | BRIDGE No. | BRIDGE NAME | THERMOPLASTIC TRAFFIC STRIPE | | | | | PAVEMENT MARKER | | | REMOVE | | | | |
|-------------|-------|-----------|------------|-----------------------------|------------------------------|----------------|-----------------|----------------|-------------------------|--------------------------|-----------------|--------|--------------------------------|-----------------|-------------------------------------|------------------------------|--------------------------------|
| | | | | | De+36 | De+36 A | De+ | De+ 27B | De+ 13/14 | 4" TYPE A NON REFLECTIVE | RETROREFLECTIVE | | THERMOPLASTIC PAVEMENT MARKING | PAVEMENT MARKER | YELLOW THERMOPLASTIC TRAFFIC STRIPE | THERMOPLASTIC TRAFFIC STRIPE | THERMOPLASTIC PAVEMENT MARKING |
| | | | | | 8" SOLID WHITE | 8" SOLID WHITE | 4" SOLID YELLOW | 4" SOLID WHITE | 4" BROKEN WHITE (36-12) | | TYPE G | TYPE H | | | | | |
| | | | | | LF | LF | LF | LF | LF | EA | EA | EA | SQFT | EA | LF | LF | SQFT |
| 11 | 134 | 8.81 | 53-1907G | 134-E/2 CONNECTOR OC | 1000 | | 3219 | 3219 | 3219 | 538 | 135 | 68 | | 741 | 3219 | 4024 | |
| 12 | 134 | 8.95 | 53-1918G | E134-W2 CONNECTOR OC | | | 420 | 420 | | 36 | 10 | 10 | 60 | 56 | 420 | 420 | 60 |
| 13 | 134 | 9.04 | 53-1917F | W134-S2 CONNECTOR OC | | | 1432 | 1432 | 1432 | 240 | 61 | 31 | 144 | 332 | 1432 | 1790 | 144 |
| 14 | 405 | 39.62 | 53-1159 | NB LOS ANGELES RIVER | | | 255 | 170 | 170 | 22 | 6 | 6 | | 34 | 255 | 212 | |
| | | | | SB LOS ANGELES RIVER | | | 255 | 170 | 170 | 22 | 6 | 6 | | 34 | 255 | 212 | |
| 15 | 405 | 40.29 | 53-1291 | EB BURBANK BOULEVARD OC | | | 146 | 146 | 438 | 50 | 13 | 4 | 132 | 67 | 146 | 255 | 132 |
| | | | | WB BURBANK BOULEVARD OC | | | 146 | 146 | 584 | 62 | 16 | 4 | 228 | 82 | 146 | 292 | 228 |
| 16 | 405 | 41.27 | 53-1362 | NB VAN NUYS OH | | | 660 | 440 | 660 | 74 | 19 | 12 | | 105 | 660 | 605 | |
| | | | | SB VAN NUYS OH | | 440 | 660 | 440 | 660 | 74 | 19 | 12 | | 105 | 660 | 605 | |
| 17 | 405 | 41.35 | 53-1550K | EB HASKELL AVENUE UC | | | 104 | 104 | | 10 | 3 | 3 | | 16 | 104 | 104 | |
| 18 | 405 | 45.24 | 53-1496 | NB PLUMMER STREET UC | | | 447 | 298 | 447 | 51 | 13 | 8 | | 72 | 447 | 410 | |
| | | | | SB PLUMMER STREET UC | | | 447 | 298 | 447 | 51 | 13 | 8 | | 72 | 447 | 410 | |
| 19 | 405 | 46.24 | 53-1500 | NB DEVONSHIRE STREET UC | | | 456 | 152 | 911 | 90 | 23 | 8 | 48 | 121 | 456 | 532 | 48 |
| | | | | SB DEVONSHIRE STREET UC | | 304 | 456 | 152 | 911 | 90 | 23 | 8 | | 121 | 456 | 532 | |
| 20 | 405 | 46.80 | 53-2216G | N405-E & W 118 CONNECTOR OC | | | 197 | 197 | 197 | 34 | 9 | 5 | | 48 | 197 | 246 | |
| 21 | 5 | 41.57 | 53-1133 | ROUTE 5/405 SEPARATION | | | 420 | 420 | 420 | 71 | 18 | 10 | | 99 | 420 | 525 | |
| SUB TOTAL | | | | | 1,000 | 744 | 9,720 | 8,204 | 10,666 | 1,515 | 387 | 203 | 612 | 2,105 | 9,720 | 11,174 | 612 |
| SHEET TOTAL | | | | | 1744 | | 17,924 | | 10,666 | 1,515 | 590 | | 612 | 2,105 | 9,720 | 11,174 | 612 |
| GRAND TOTAL | | | | | 4,304 | | 37,549 | | 32,000 | 3,913 | 1,417 | | 1,910 | 5,228 | 20,386 | 25,466 | 1,910 |

PAVEMENT DELINEATION QUANTITIES PDQ-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING
 JOHN ZAKI
 DEBORAH WONG
 DEBORAH WONG
 DEBORAH WONG
 REVISIONS BY: JOHN ZAKI, DEBORAH WONG
 REVISIONS DATE: [Blank]
 CALCULATED/DESIGNED BY: [Blank]
 CHECKED BY: [Blank]

LAST REVISION DATE PLOTTED => 26-JAN-2012
 01-30-12 TIME PLOTTED => 10:47

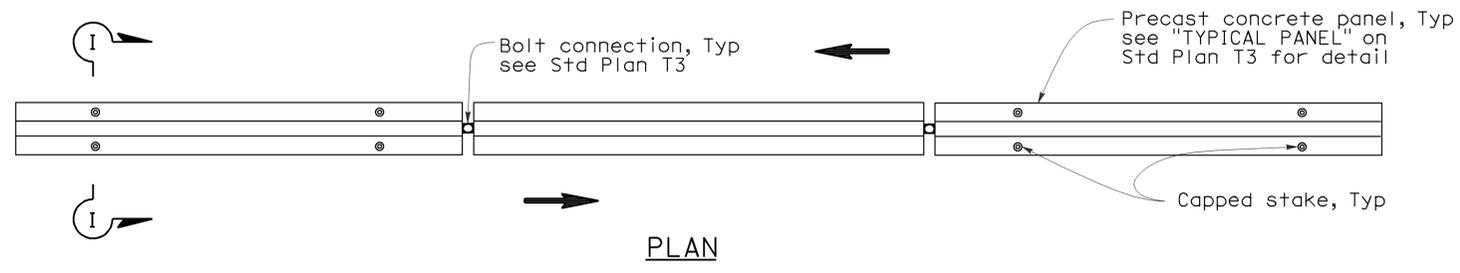
| | | | | | |
|------|--------|-------------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 07 | LA | 5, 134, 405 | Var | 16 | 37 |

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

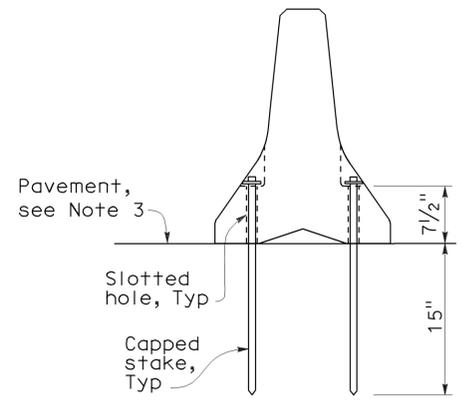
May 20, 2011
PLANS APPROVAL DATE

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

To accompany plans dated 01-30-12

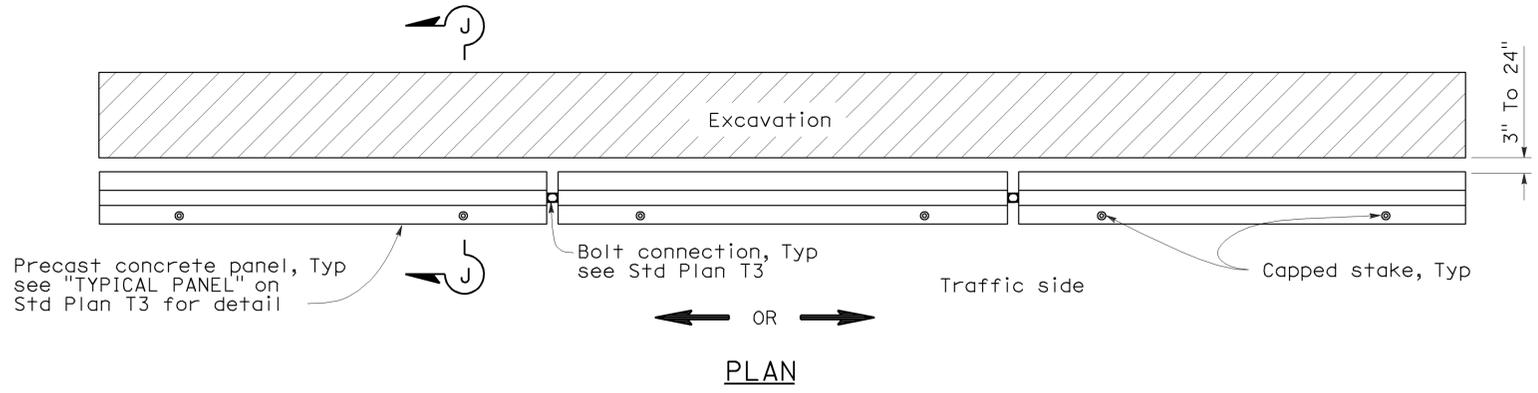


RAILING STAKING CONFIGURATION FOR TWO-WAY TRAFFIC
See Note 1

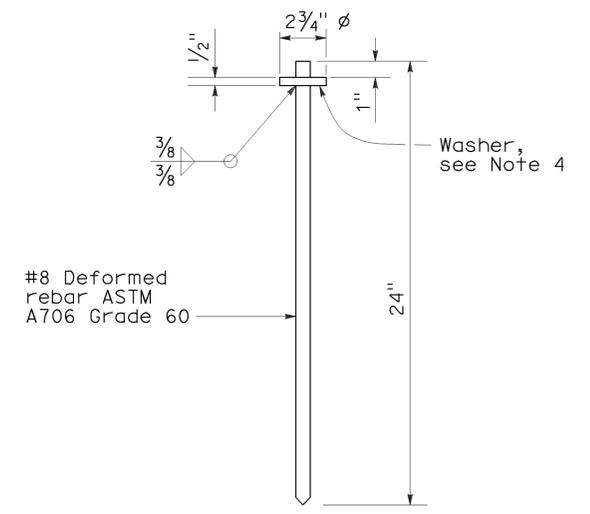
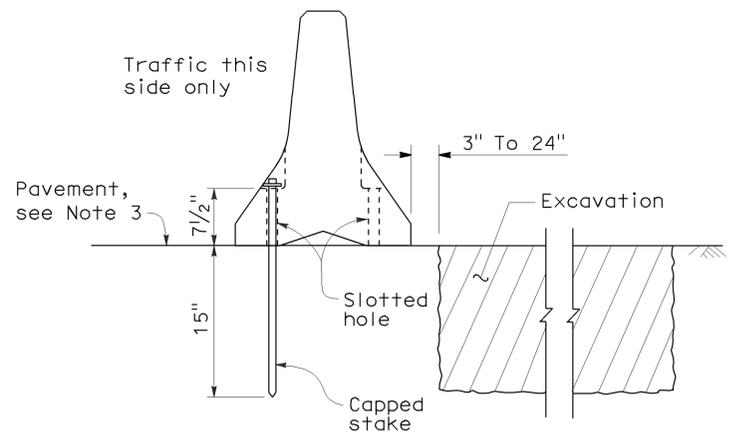


NOTES:

1. Where Type K Temporary Railing is placed as a temporary or long term barrier in two-way traffic on highways with less than 24" from the edge of traveled way, use four capped stakes per every other panel with end panels staked.
2. Where Type K Temporary Railing is placed 3" to 24" from the edge of an excavation on highways, use two capped stakes per panel along the traffic side.
3. Staked Type K Temporary Railing must be supported by at least 4" thick concrete, hot mix asphalt or existing asphalt concrete pavement.
4. The minimum yield strength for the washer must be 60,000 psi.
5. Direction of adjacent traffic indicated by \Rightarrow .



RAILING STAKING CONFIGURATION ADJACENT TO AN EXCAVATION
See Note 2



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**TEMPORARY RAILING
(TYPE K)**

NO SCALE

NSP T3A DATED MAY 20, 2011 SUPPLEMENTS
THE STANDARD PLANS BOOK DATED MAY 2006.

2006 NEW STANDARD PLAN NSP T3A

| | | | | | |
|------|--------|-------------|--------------------------|-----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
| 07 | LA | 5, 134, 405 | Var | 17 | 37 |

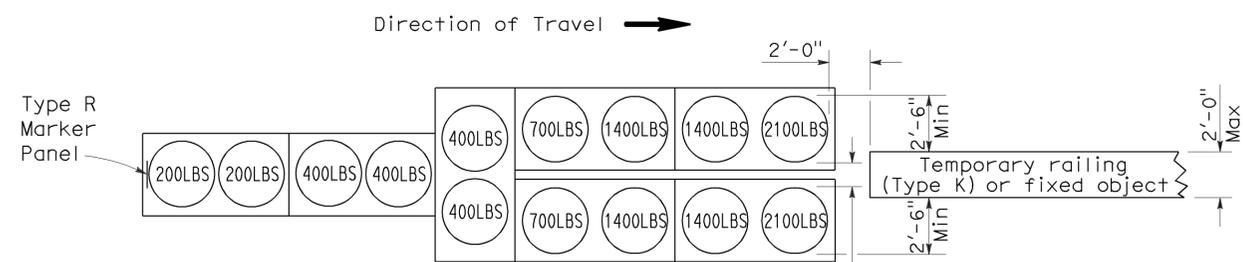
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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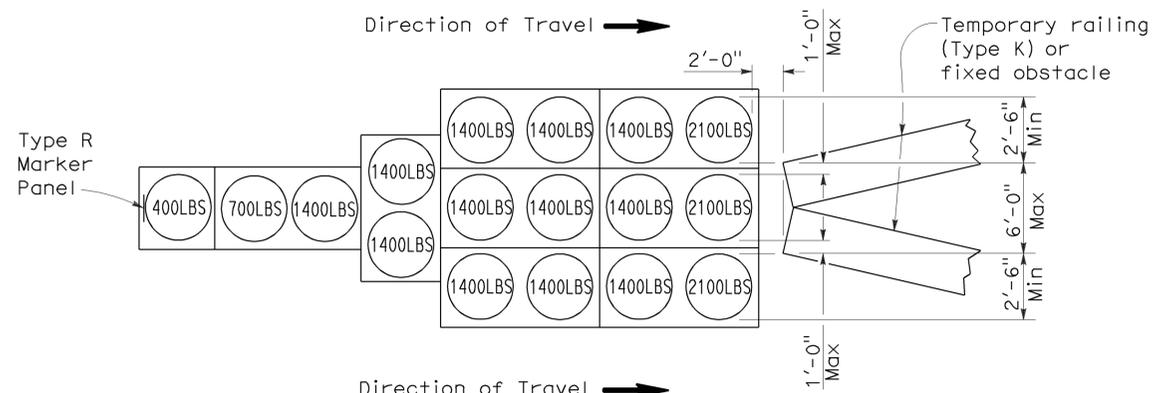
REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

To accompany plans dated 01-30-12



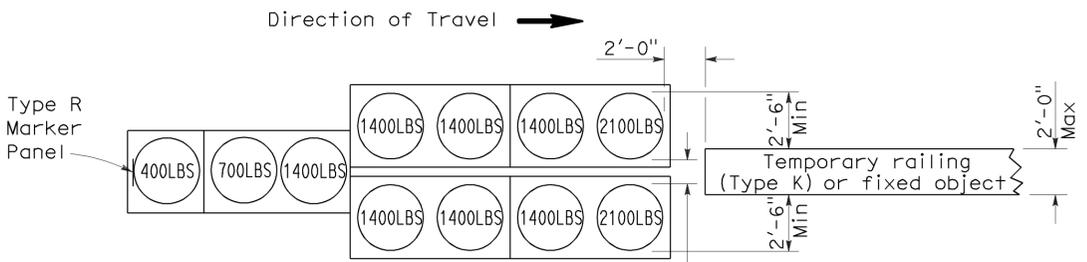
ARRAY 'TU14'

Approach speed 45 mph or more



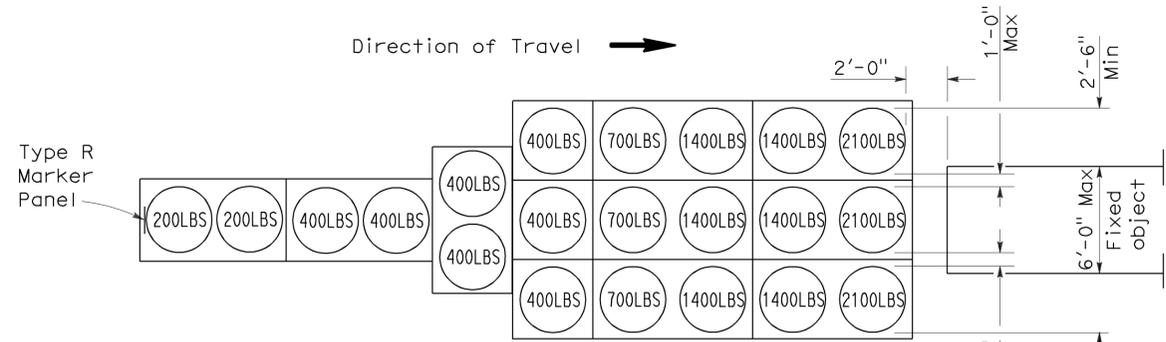
ARRAY 'TU17'

Approach speed less than 45 mph



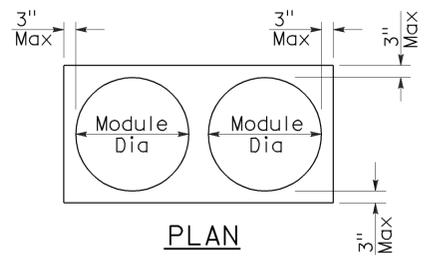
ARRAY 'TU11'

Approach speed less than 45 mph

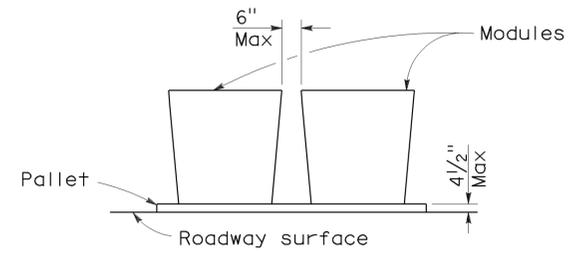


ARRAY 'TU21'

Approach speed 45 mph or more



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. Temporary crash cushion arrays shall not encroach on the traveled way.
4. Place the top of Type R marker panel 1" below the module lid.
5. Refer to Standard Plan A73B for marker details.
6. Approach speeds indicated conform to NCHRP 350 Report criteria.
7. Use of pallets is optional.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**TEMPORARY CRASH CUSHION,
SAND FILLED
(UNIDIRECTIONAL)**

NO SCALE

RSP T1A DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T1A
DATED MAY 1, 2006 - PAGE 211 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T1A

2006 REVISED STANDARD PLAN RSP T1A

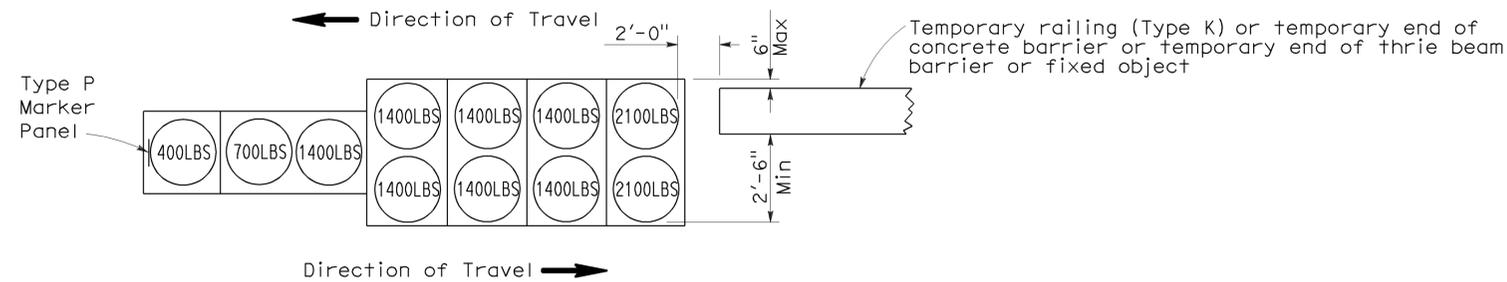
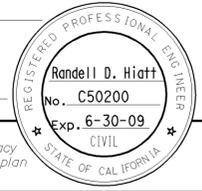
| | | | | | |
|------|--------|-------------|--------------------------|-----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
| 07 | LA | 5, 134, 405 | Var | 18 | 37 |

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

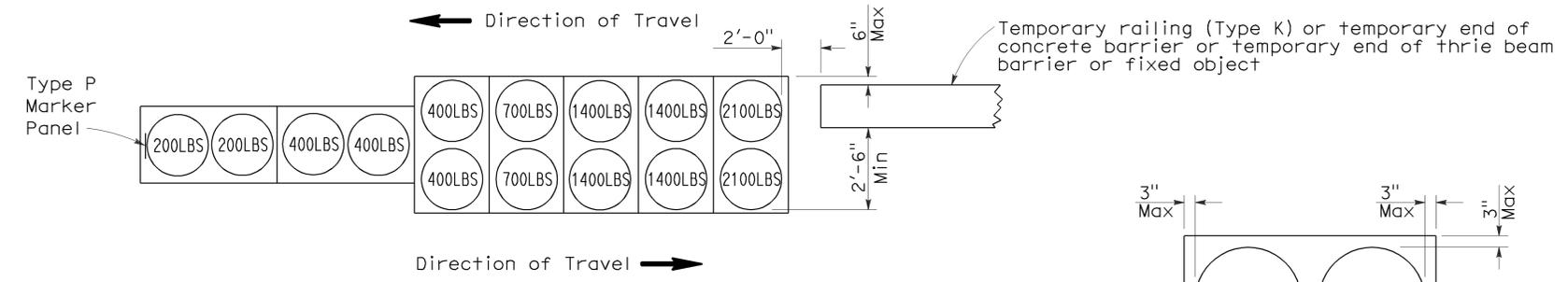
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 01-30-12



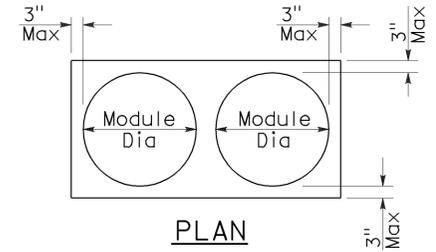
ARRAY 'TB11'

Approach speed less than 45 mph

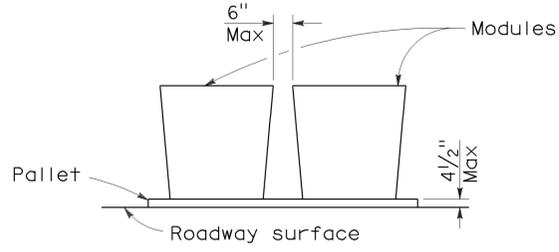


ARRAY 'TB14'

Approach speed 45 mph or more



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. Temporary crash cushion arrays shall not encroach on the traveled way.
4. Place the Type P marker panel so that the bottom of the panel rests upon the pallet.
5. Refer to Standard Plan A73B for marker details.
6. Approach speeds indicated conform to NCHRP 350 Report criteria.
7. Use of pallets is optional.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**TEMPORARY CRASH CUSHION,
SAND FILLED
(BIDIRECTIONAL)**

NO SCALE

RSP T1B DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T1B
DATED MAY 1, 2006 - PAGE 212 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T1B

2006 REVISED STANDARD PLAN RSP T1B

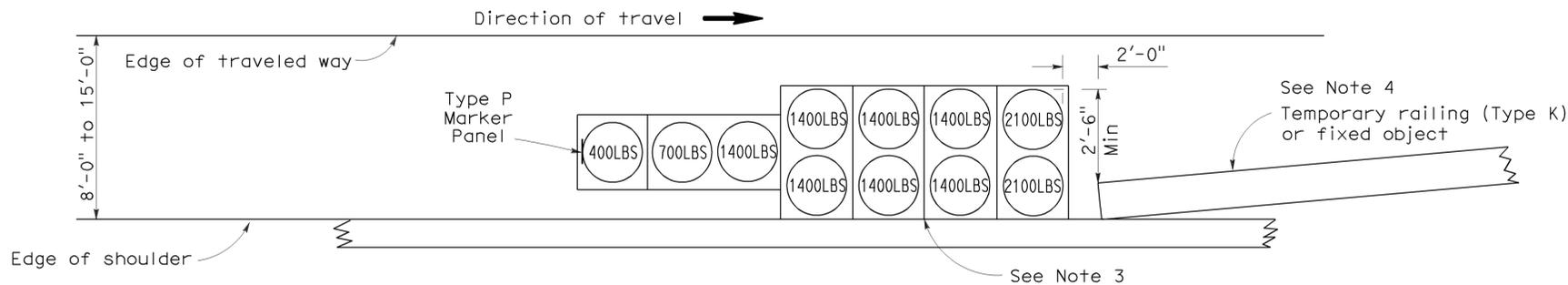
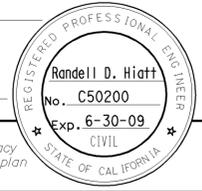
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
|------|--------|-------------|--------------------------|-----------|--------------|
| 07 | LA | 5, 134, 405 | Var | 19 | 37 |

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

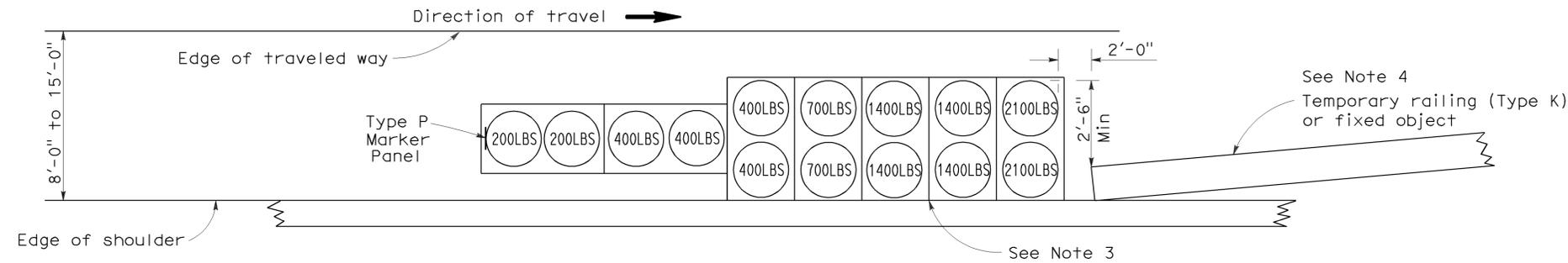
June 6, 2008
PLANS APPROVAL DATE

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

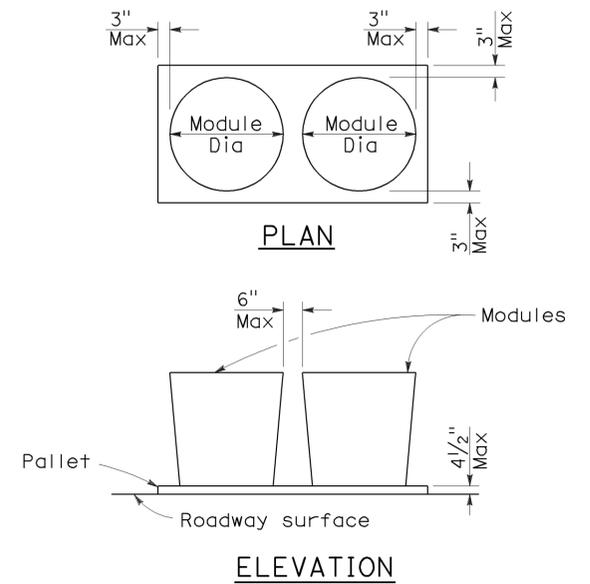
To accompany plans dated 01-30-12



ARRAY 'TS11'
Approach speed less than 45 mph
See Note 9



ARRAY 'TS14'
Approach speed 45 mph or more
See Note 9



CRASH CUSHION PALLET DETAIL
See Note 11

NOTES:

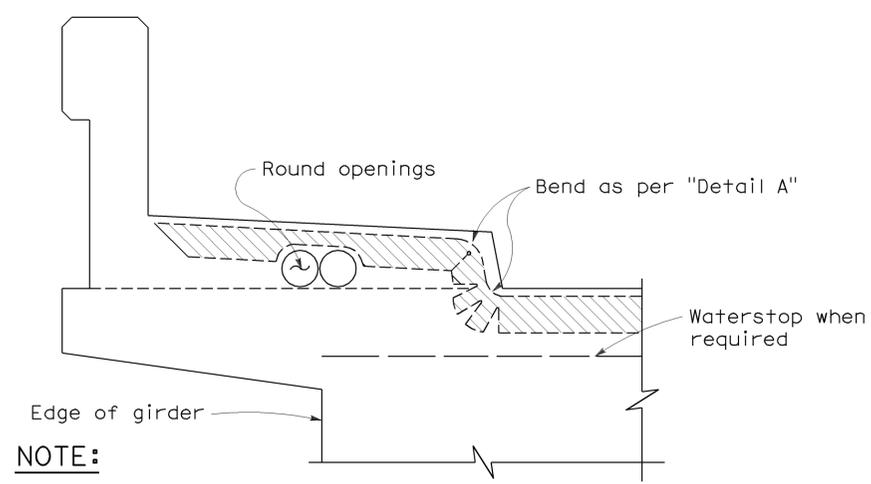
- (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
- All sand weights are nominal.
- The temporary crash cushion arrays shown on this plan shall be used only in locations where there will be traffic on one side of the temporary crash cushion array.
- If the fixed object or approach end of the temporary railing is less than 15'-0" from the edge of traveled way, a temporary crash cushion is required in a construction or work zone.
- Temporary crash cushion arrays shall not encroach on the traveled way.
- Arrays for median shoulders shall conform to details shown on this plan for outside shoulders.
- Place the Type P marker panel so that the bottom of the panel rests upon the pallet and faces traffic.
- Refer to Standard Plan A73B for marker details.
- For shoulder widths less than 8'-0", appropriate approved crash cushion protection, other than sand filled modules, shall be provided at fixed objects and at approach ends of temporary railing. The specific type of crash cushion shall be as shown on the project plans or as specified in the Special Provisions, or if not shown on the project plans or specified in the Special Provisions, shall be as approved by the Engineer.
- Approach speeds indicated conform to NCHRP 350 Report criteria.
- Use of pallets is optional.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**TEMPORARY CRASH CUSHION,
SAND FILLED
(SHOULDER INSTALLATIONS)**

NO SCALE
RSP T2 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T2
DATED MAY 1, 2006 - PAGE 213 OF THE STANDARD PLANS BOOK DATED MAY 2006.

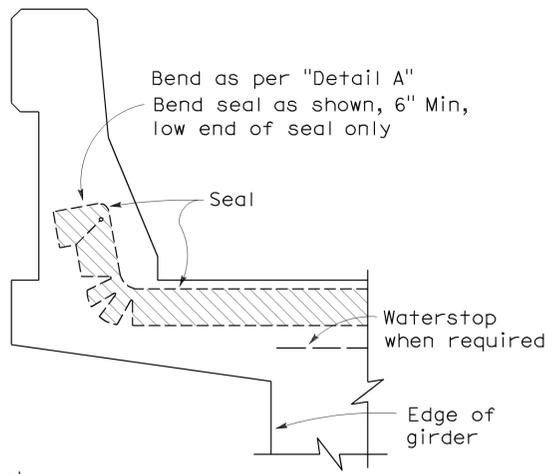
REVISED STANDARD PLAN RSP T2

2006 REVISED STANDARD PLAN RSP T2

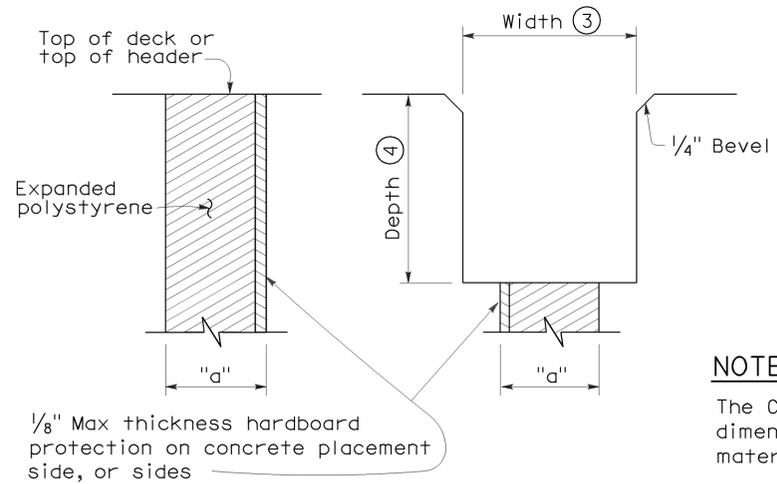


NOTE:
 Type "B" seal shown. Type "A" seals to conform to the general path of seal shown, cuts for bending not required. Bend Type "A" seals 3" up into curb or barrier rail on only the low end of the seal.

CONCRETE BARRIER AND SIDEWALK



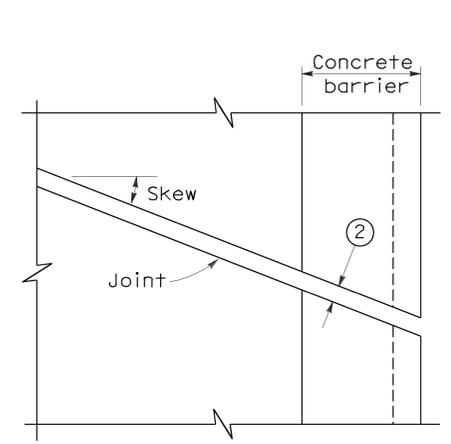
CONCRETE BARRIER



FORMING DETAIL SAWCUT DETAIL

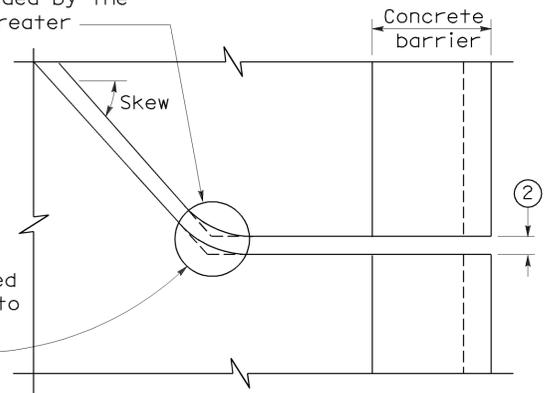
NOTE:
 The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

JOINT SEALS DETAILS



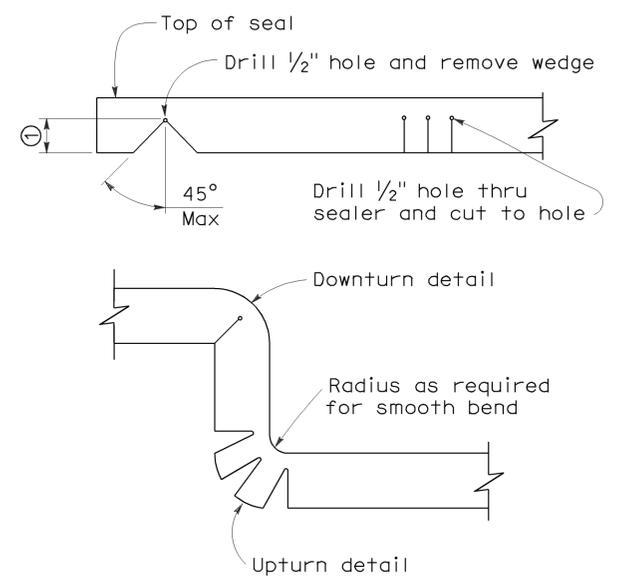
PLAN OF JOINT (SKEW ≤ 20°)

Min ϕ radius to be 4 times uncompressed width of seal or as recommended by the manufacturer, whichever is greater



PLAN OF JOINT (SKEW > 20°)

In lieu of saw cutting, this area may be blocked out and reconstructed to match saw cutting on both sides.



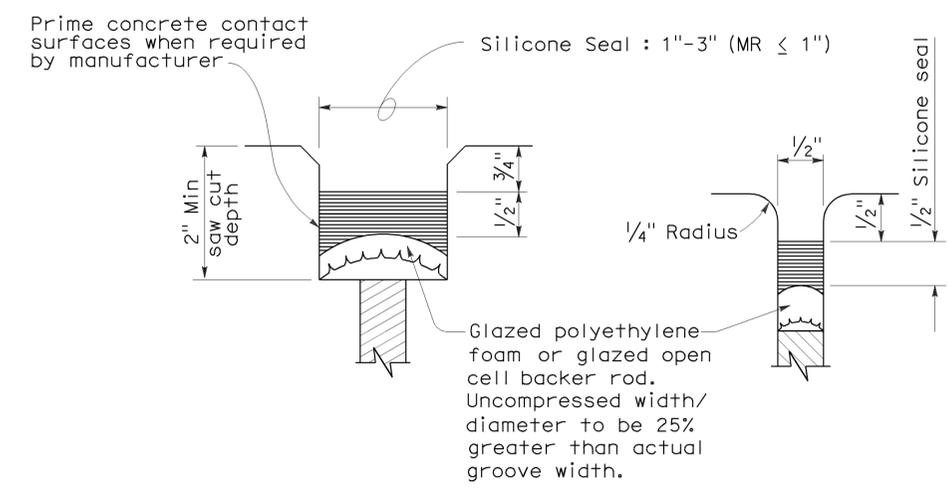
DETAIL A

- NOTES:**
- Make smooth cuts from the bottom of seal to 1 1/2" clear of top leaving at least one complete cell between the top of the cut and top of the seal. When necessary cut back of seal to clear conduit and round openings.
 - Opening in barrier to match width of sawn deck joint.
 - Sawcut groove widths shall be as ordered by the Engineer.
 - Depth of sawcut: Type A - Depth to be 2" minimum.
 Type B - Depth to be equal to or greater than the depth of seal measured along the contact surface, when compressed to minimum width position (W₂) plus dimensions shown.
 - MR (movement rating) as shown on other plan sheets.
 - Other depths must be approved by the Engineer.

DIMENSIONS "a" OF JOINT REQUIRED

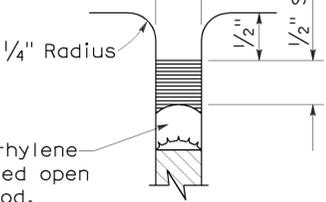
| Movement Rating (MR) (5) | Bridge Type | "a" Dimension | | |
|--------------------------|-------------------|----------------------|-------------|--------|
| | | Deck Concrete Placed | | |
| | | Winter | Fall-Spring | Summer |
| 2" | All except CIP/PS | 1 1/2" | 1 1/4" | 3/4" |
| | CIP/PS | 1 1/4" | 1" | 1/2" |
| 1 1/2" | All except CIP/PS | 1 1/4" | 1" | 1/2" |
| | CIP/PS | 1" | 3/4" | 1/2" |
| 1" | All except CIP/PS | 1" | 3/4" | 1/2" |
| | CIP/PS | 3/4" | 1/2" | 1/2" |
| 1/2" | All except CIP/PS | 3/4" | 3/4" | 1/2" |
| | CIP/PS | 1/2" | 1/2" | 1/2" |

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
JOINT SEALS
(MAXIMUM MOVEMENT RATING = 2")
 NO SCALE



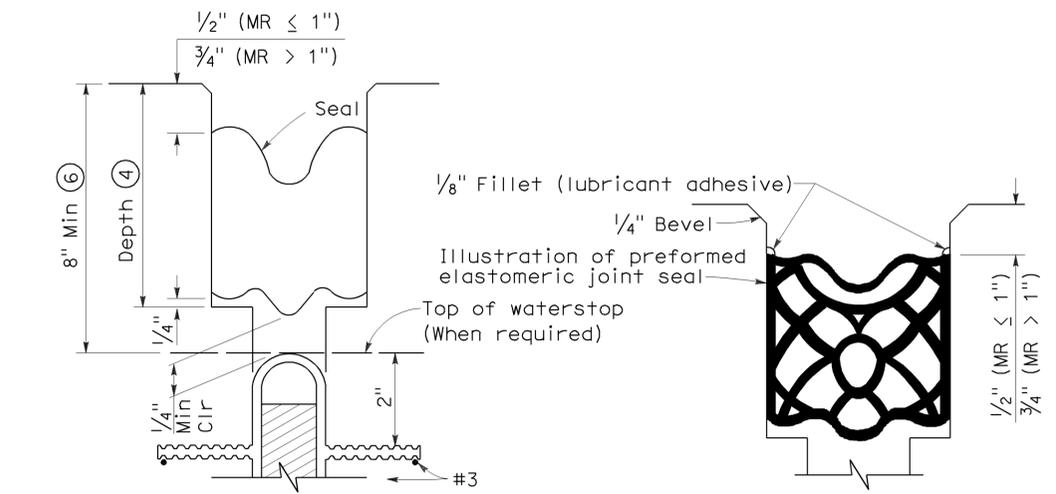
TYPE A SEAL

Movement rating : Silicone = 1" Max



TYPE AL SEAL

Longitudinal joints only



TYPE B JOINT SEAL IN MINIMUM WIDTH POSITION (W₂)

TYPE B SEAL

Movement Rating ≤ 2"

RSP B6-21 DATED OCTOBER 5, 2007 SUPERSEDES STANDARD PLAN B6-21 DATED MAY 1, 2006 - PAGE 258 OF THE STANDARD PLANS BOOK DATED MAY 2006.

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|-------------|--------------------------|-----------|--------------|
| 07 | LA | 5, 134, 405 | Var | 21 | 37 |

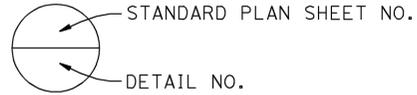
REGISTERED CIVIL ENGINEER DATE 10-21-11
 PLANS APPROVAL DATE 01-30-12
 No. C65380 Exp. 09/30/13
 CIVIL
 STATE OF CALIFORNIA
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

LEGEND:

- Indicates existing.
- ⇒ Indicates direction of traffic.
-  Indicates limits of prepare concrete bridge deck surface and treat bridge deck with methacrylate.
-  Indicates limits of remove unsound concrete and place rapid setting concrete patches.

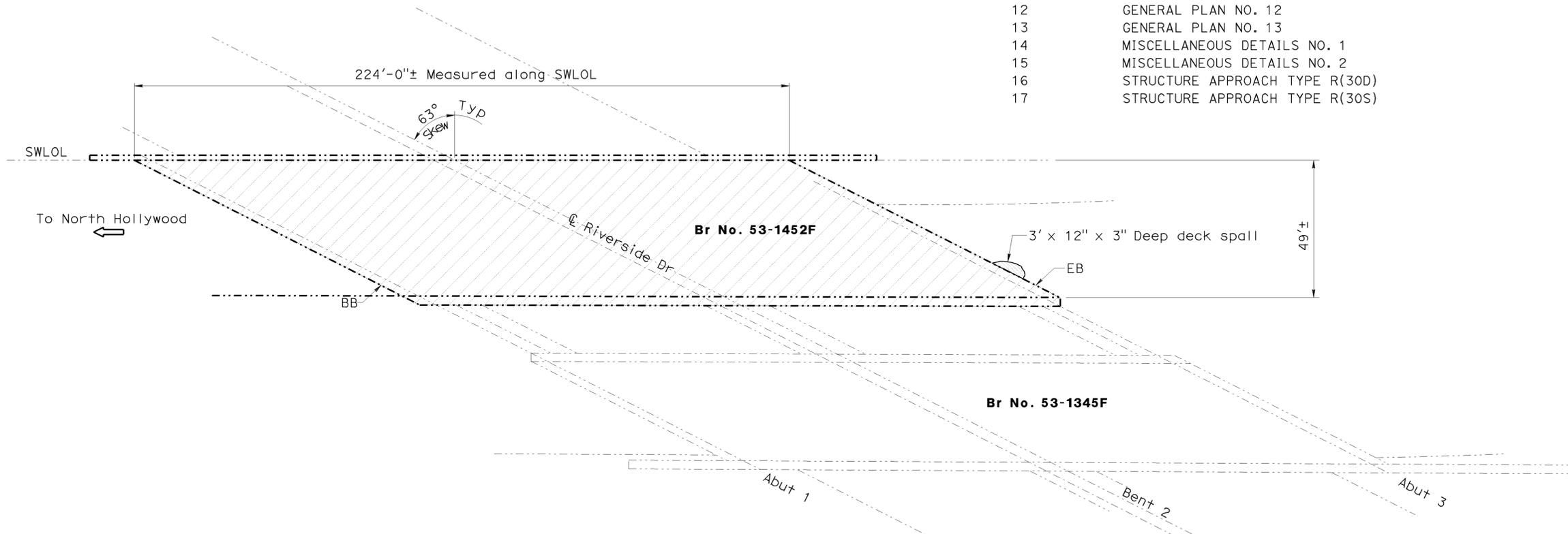
STANDARD PLANS DATED MAY 2006

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



INDEX TO PLANS

| SHEET NO. | TITLE |
|-----------|--------------------------------|
| 1 | GENERAL PLAN NO. 1 |
| 2 | GENERAL PLAN NO. 2 |
| 3 | GENERAL PLAN NO. 3 |
| 4 | GENERAL PLAN NO. 4 |
| 5 | GENERAL PLAN NO. 5 |
| 6 | GENERAL PLAN NO. 6 |
| 7 | GENERAL PLAN NO. 7 |
| 8 | GENERAL PLAN NO. 8 |
| 9 | GENERAL PLAN NO. 9 |
| 10 | GENERAL PLAN NO. 10 |
| 11 | GENERAL PLAN NO. 11 |
| 12 | GENERAL PLAN NO. 12 |
| 13 | GENERAL PLAN NO. 13 |
| 14 | MISCELLANEOUS DETAILS NO. 1 |
| 15 | MISCELLANEOUS DETAILS NO. 2 |
| 16 | STRUCTURE APPROACH TYPE R(30D) |
| 17 | STRUCTURE APPROACH TYPE R(30S) |



W134-N170 CONNECTOR OC
 Br No. 53-1452F, Rte 134, PM 0.03
 Scale 1"=40'

W134-N170 CONNECTOR OC #53-1452F

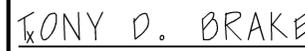
QUANTITIES

| | |
|--|-------------|
| REMOVE UNSOUND CONCRETE | 1 CF |
| PREPARE CONCRETE BRIDGE DECK SURFACE | 11,000 SQFT |
| RAPID SETTING CONCRETE (PATCH) | 1 CF |
| TREAT BRIDGE DECK | 11,00 SQFT |
| FURNISH BRIDGE DECK TREATMENT MATERIAL | 138 GAL |
| PUBLIC SAFETY PLAN | LUMP SUM |

NOTE:

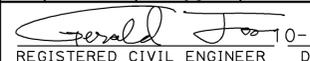
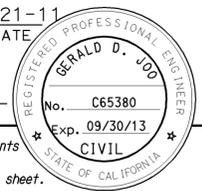
- For deck damage repair detail and spall repair detail, see "Miscellaneous details No. 2" sheet.

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

| | | | | | |
|---|------------|----------------|------------------------|--------------------|--|
|  DESIGN ENGINEER | DESIGN | BY Gerald Joo | CHECKED Hong Tien Tran | LOAD FACTOR DESIGN | LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD |
| | DETAILS | BY Clayton Tom | CHECKED Gerald Joo | LAYOUT | BY Clayton Tom |
| | QUANTITIES | BY Gerald Joo | CHECKED Hong Tien Tran | SPECIFICATIONS | BY Dave Klein |

| | | |
|---|------------------------------|------------|
| STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF MAINTENANCE | BRIDGE NO. |
| | STRUCTURE MAINTENANCE DESIGN | Various |
| | | Varies |

| | |
|--------------------------------------|-------------------------|
| ROUTE 134 BRIDGES | |
| GENERAL PLAN NO. 1 | |
| PROJECT NUMBER & PHASE: 0700020034 1 | CONTRACT NO.: 07-4Y7901 |

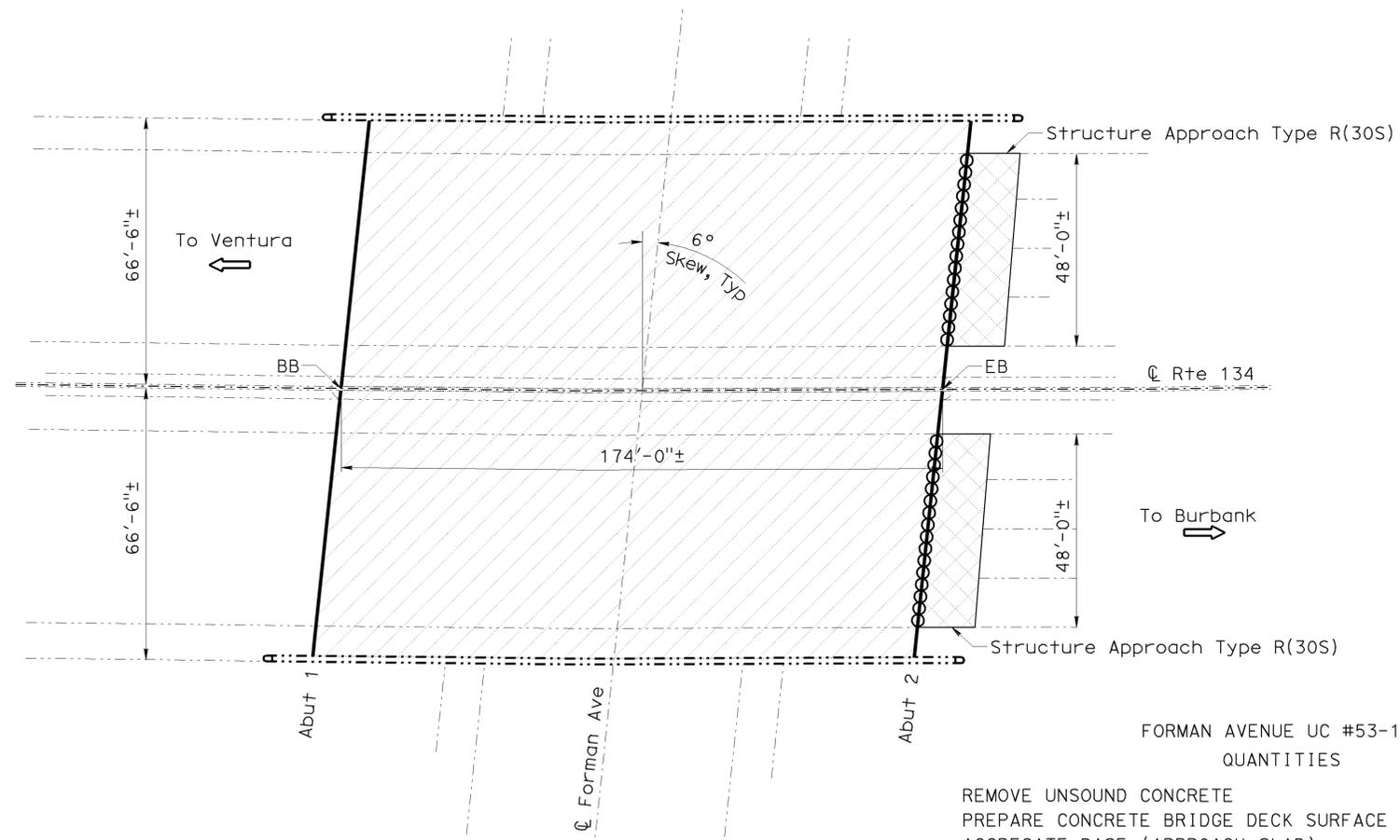
| | | | | | |
|---|--------|-------------|---|-----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 07 | LA | 5, 134, 405 | Var | 22 | 37 |
|  REGISTERED CIVIL ENGINEER DATE 10-21-11 | | |  | | |
| 01-30-12 | | | PLANS APPROVAL DATE | | |
| <small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small> | | | | | |

LEGEND:

- Indicates existing.
- ⇒ Indicates direction of traffic.
-  Indicates limits of prepare concrete bridge deck surface and treat bridge deck with methacrylate.
- Indicates location of clean expansion joint and placement of new joint seal. Prior to placement of new joint seal, remove unsound concrete and patch with rapid setting concrete.
-  Indicates limits of remove existing approach and place new Structure Approach Type R(30S). For details see "STRUCTURE APPROACH TYPE R(30S)" sheet.
- ⊖⊖⊖⊖⊖⊖ Indicates location of install new joint seal.

NOTE:

- For clean expansion joint and joint seal details, see "Miscellaneous Details No.1" sheet.
- For Approach slab details, see "Structure Approach Type R(30S)" sheet.
- For joint repair detail, see "MISCELLANEOUS DETAILS No. 1" sheet.



FORMAN AVENUE UC

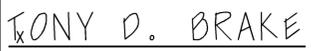
Br No. 53-1276, Rte 134, PM 1.36
Scale 1"=40'



**FORMAN AVENUE UC #53-1276
QUANTITIES**

| | |
|---|-------------|
| REMOVE UNSOUND CONCRETE | 2 CF |
| PREPARE CONCRETE BRIDGE DECK SURFACE | 23,200 SQFT |
| AGGREGATE BASE (APPROACH SLAB) | 11 CY |
| STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R) | 110 CY |
| CLEAN EXPANSION JOINT | 181 LF |
| RAPID SETTING CONCRETE (PATCH) | 2 CF |
| JOINT SEAL (MR 1/2") | 277 LF |
| TREAT BRIDGE DECK | 23,200 SQFT |
| FURNISH BRIDGE DECK TREATMENT MATERIAL | 290 GAL |
| PUBLIC SAFETY PLAN | LUMP SUM |

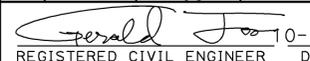
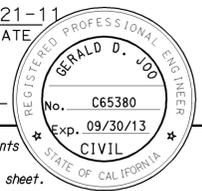
NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITIES FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

| | | | | | |
|---|------------|----------------|------------------------|--------------------|--|
|  DESIGN ENGINEER | DESIGN | BY Gerald Joo | CHECKED Hong Tien Tran | LOAD FACTOR DESIGN | LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD |
| | DETAILS | BY Clayton Tom | CHECKED Gerald Joo | LAYOUT | BY Clayton Tom |
| | QUANTITIES | BY Gerald Joo | CHECKED Hong Tien Tran | SPECIFICATIONS | BY Dave Klein |

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

| | |
|-------------------------------------|----------|
| ROUTE 134 BRIDGES | |
| GENERAL PLAN NO. 2 | |
| REVISION DATES | SHEET OF |
| 01-12-11 08-24-11 10-14-11 10-21-11 | 02 17 |

USERNAME => s117283 DATE PLOTTED => 21-OCT-2011 TIME PLOTTED => 09:45

| | | | | | |
|---|--------|-------------|---|-----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 07 | LA | 5, 134, 405 | Var | 23 | 37 |
|  REGISTERED CIVIL ENGINEER DATE 10-21-11 | | |  | | |
| 01-30-12 | | | PLANS APPROVAL DATE | | |
| <small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small> | | | | | |

LEGEND:

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

NOTE:

- For clean expansion joint and joint seal details, see "Miscellaneous Details No.1" sheet.
- For Approach slab details, see "Structure Approach Type R(30D)" sheet.

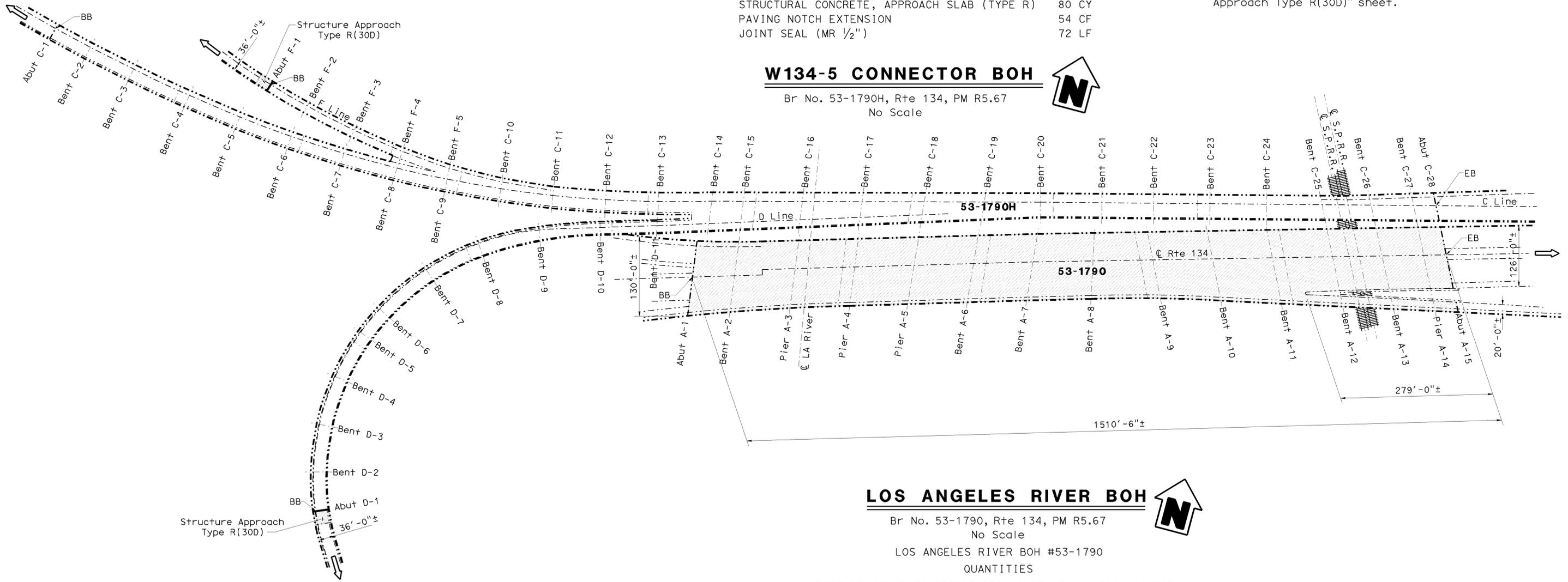
W134-5 CONNECTOR BOH #53-1790H

QUANTITIES

| | |
|---|-------|
| AGGREGATE BASE (APPROACH SLAB) | 8 CY |
| STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R) | 80 CY |
| PAVING NOTCH EXTENSION | 54 CF |
| JOINT SEAL (MR 1/2") | 72 LF |

W134-5 CONNECTOR BOH

Br No. 53-1790H, Rte 134, PM R5.67
No Scale



LOS ANGELES RIVER BOH

Br No. 53-1790, Rte 134, PM R5.67
No Scale



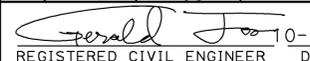
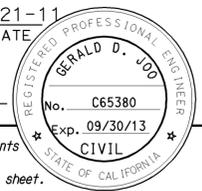
LOS ANGELES RIVER BOH #53-1790

QUANTITIES

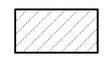
| | |
|--|--------------|
| PREPARE CONCRETE BRIDGE DECK SURFACE | 202,000 SQFT |
| TREAT BRIDGE DECK | 202,000 SQFT |
| FURNISH BRIDGE DECK TREATMENT MATERIAL | 2,525 GAL |
| PUBLIC SAFETY PLAN | LUMP SUM |

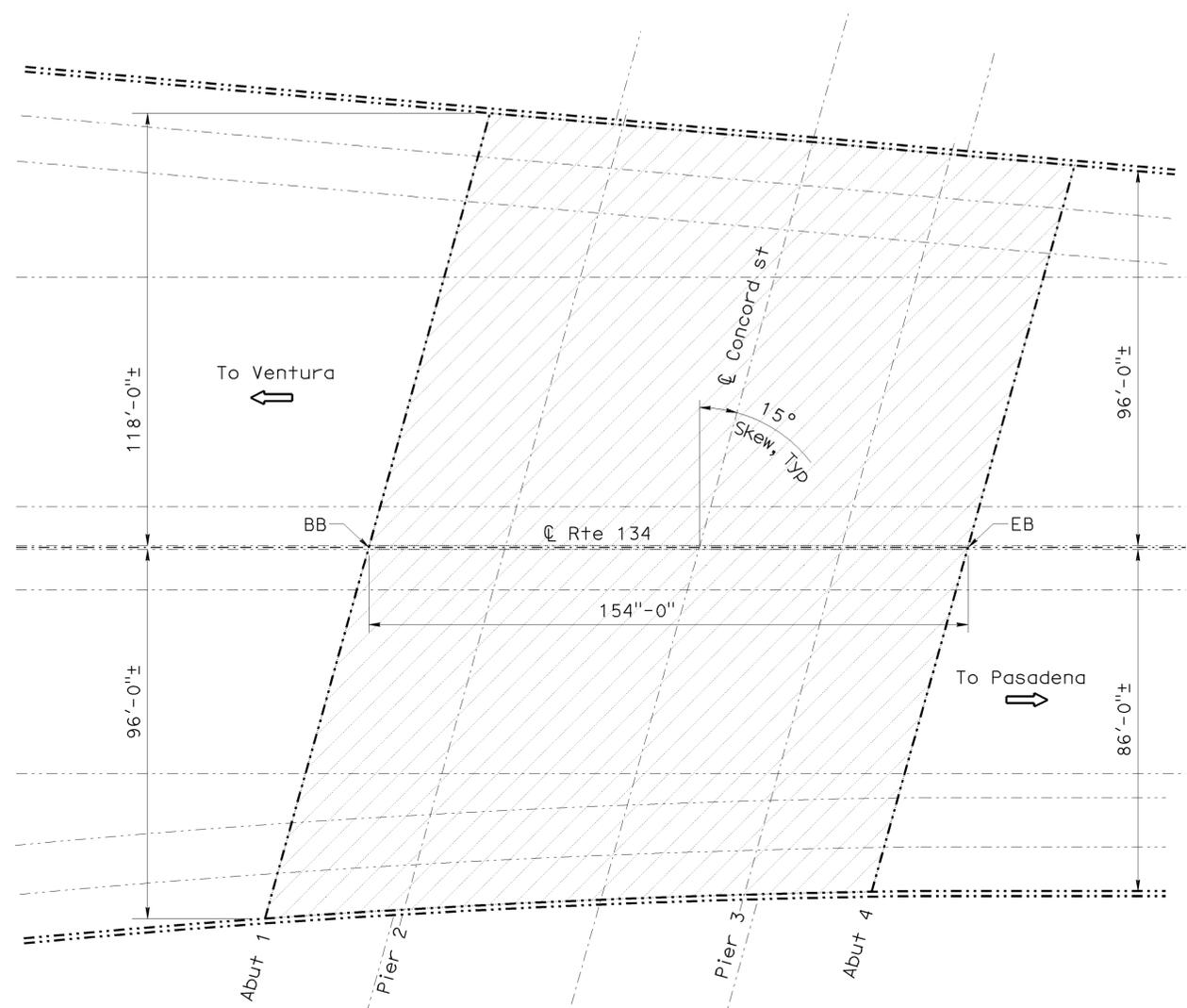
NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITIES FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

| | | | | | | | | | | | | | |
|---|------------|----------------|------------------------|--------------------|--|---|--------------------|---|-------------------------|---|----------------|----------|-------|
|  DESIGN ENGINEER | DESIGN | BY Gerald Joo | CHECKED Hong Tien Tran | LOAD FACTOR DESIGN | LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | BRIDGE NO. | ROUTE 134 BRIDGES GENERAL PLAN NO. 3 | | | | | |
| | DETAILS | BY Clayton Tom | CHECKED Gerald Joo | LAYOUT | BY Clayton Tom | | CHECKED Gerald Joo | | Various | | | | |
| | QUANTITIES | BY Gerald Joo | CHECKED Hong Tien Tran | SPECIFICATIONS | BY Dave Klein | | CHECKED Dave Klein | | Varies | | | | |
| STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10) | | | | | | ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | UNIT: 3489 | PROJECT NUMBER & PHASE: 0700020034 1 | CONTRACT NO.: 07-4Y7901 | DISREGARD PRINTS BEARING EARLIER REVISION DATES | REVISION DATES | SHEET 03 | OF 17 |

| | | | | | |
|---|--------|-------------|---|-----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 07 | LA | 5, 134, 405 | Var | 24 | 37 |
|  REGISTERED CIVIL ENGINEER DATE 10-21-11 | | |  | | |
| 01-30-12 PLANS APPROVAL DATE | | | | | |
| <small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small> | | | | | |

LEGEND:

- Indicates existing.
- ➔ Indicates direction of traffic.
-  Indicates limits of prepare concrete bridge deck surface and treat bridge deck with methacrylate.

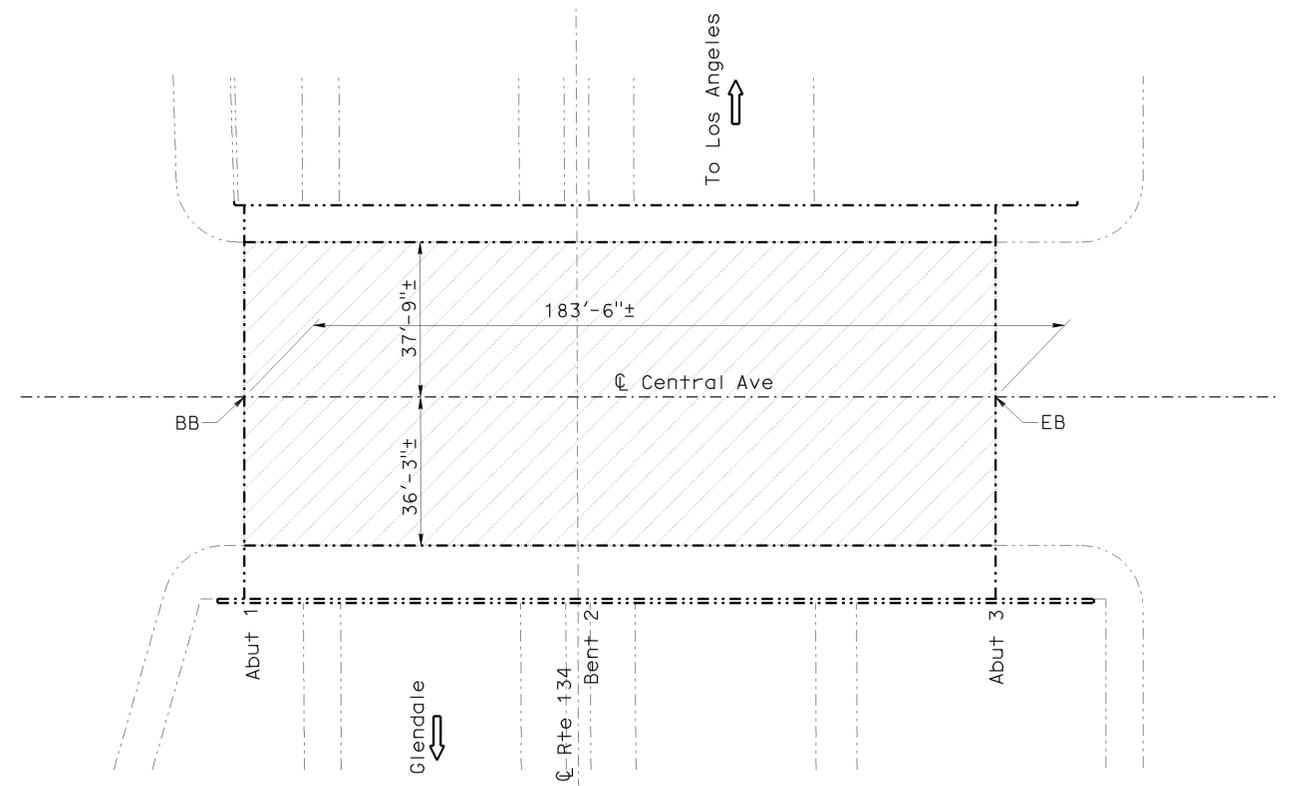


CONCORD STREET UC

Br No. 53-1744, Rte 134, PM R6.18
Scale 1"=40'

CONCORD STREET UC #53-1744
QUANTITIES

| | |
|--|-------------|
| PREPARE CONCRETE BRIDGE DECK SURFACE | 30,500 SQFT |
| TREAT BRIDGE DECK | 30,500 SQFT |
| FURNISH BRIDGE DECK TREATMENT MATERIAL | 382 GAL |
| PUBLIC SAFETY PLAN | LUMP SUM |



CENTRAL AVENUE OC

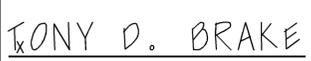
Br No. 53-1748, Rte 134, PM R6.96
No Scale

CENTRAL AVENUE OC #53-1748
QUANTITIES

| | |
|--|-------------|
| PREPARE CONCRETE BRIDGE DECK SURFACE | 13,600 SQFT |
| TREAT BRIDGE DECK | 13,600 SQFT |
| FURNISH BRIDGE DECK TREATMENT MATERIAL | 170 GAL |
| PUBLIC SAFETY PLAN | LUMP SUM |



NOTE:
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| | | | | | |
|---|------------|----------------|------------------------|--------------------|--|
|  DESIGN ENGINEER | DESIGN | BY Gerald Joo | CHECKED Hong Tien Tran | LOAD FACTOR DESIGN | LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD |
| | DETAILS | BY Clayton Tom | CHECKED Gerald Joo | LAYOUT | BY Clayton Tom |
| | QUANTITIES | BY Gerald Joo | CHECKED Hong Tien Tran | SPECIFICATIONS | BY Dave Klein |

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

**ROUTE 134 BRIDGES
GENERAL PLAN NO. 4**

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

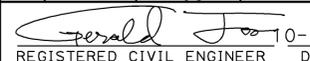
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

UNIT: 3489
PROJECT NUMBER & PHASE: 0700020034 1 CONTRACT NO.: 07-4Y7901

DISREGARD PRINTS BEARING EARLIER REVISION DATES

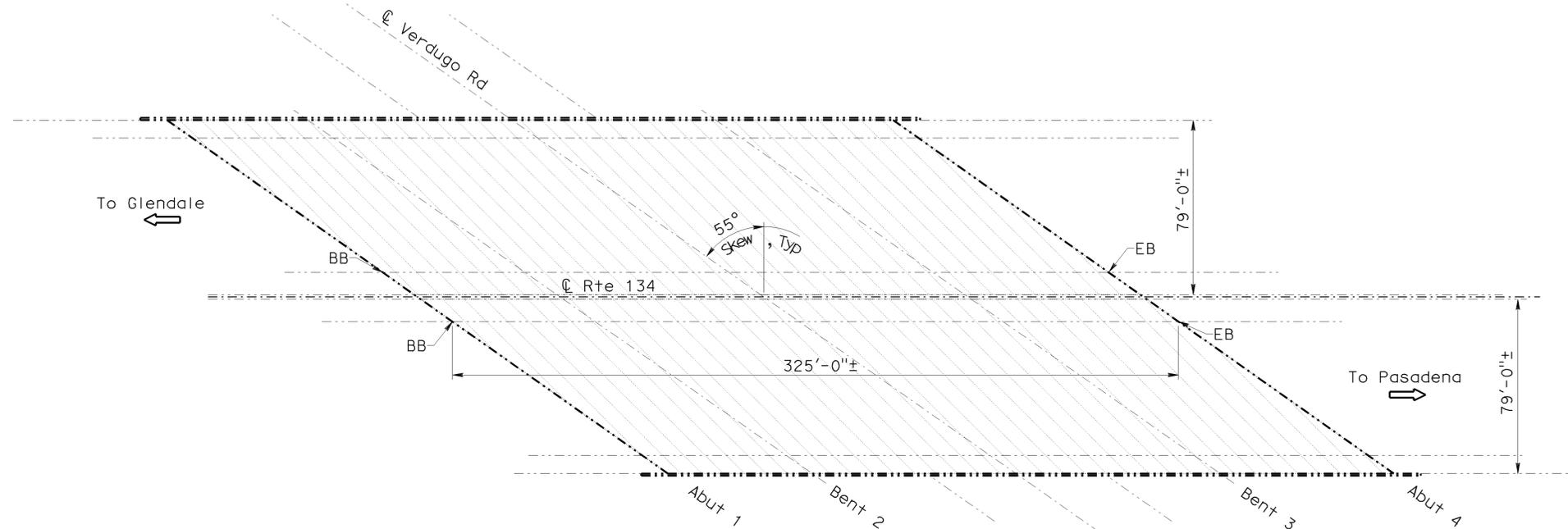
| | | |
|-------------------------------------|-------|----|
| REVISION DATES | SHEET | OF |
| 07-14-11 08-24-11 10-19-11 10-21-11 | 04 | 17 |

USERNAME => s117283 DATE PLOTTED => 21-OCT-2011 TIME PLOTTED => 09:44

| | | | | | |
|--|--------|-------------|--------------------------|-----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 07 | LA | 5, 134, 405 | Var | 25 | 37 |
|  10-21-11 REGISTERED CIVIL ENGINEER DATE | | | | | |
| 01-30-12 PLANS APPROVAL DATE | | | | | |
| No. C65380 Exp. 09/30/13 CIVIL STATE OF CALIFORNIA | | | | | |
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LEGEND:

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



VERDUGO ROAD SEPARATION

Br No. 53-1863, Rte 134, PM R8.23
 Scale 1"=30'

VERDUGO ROAD SEPARATION #53-1863

QUANTITIES

| | |
|--|-------------|
| PREPARE CONCRETE BRIDGE DECK SURFACE | 51,400 SQFT |
| TREAT BRIDGE DECK | 51,400 SQFT |
| FURNISH BRIDGE DECK TREATMENT MATERIAL | 645 GAL |
| PUBLIC SAFETY PLAN | LUMP SUM |



NOTE:
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| | | | | | |
|---|------------|----------------|------------------------|--------------------|--|
|  DESIGN ENGINEER | DESIGN | BY Gerald Joo | CHECKED Hong Tien Tran | LOAD FACTOR DESIGN | LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD |
| | DETAILS | BY Clayton Tom | CHECKED Gerald Joo | LAYOUT | BY Clayton Tom |
| | QUANTITIES | BY Gerald Joo | CHECKED Hong Tien Tran | SPECIFICATIONS | BY Dave Klein |

| | | |
|---|------------------------------|------------|
| STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF MAINTENANCE | BRIDGE NO. |
| | STRUCTURE MAINTENANCE DESIGN | Various |
| | | Varies |

| | |
|-------------------------------------|----------|
| ROUTE 134 BRIDGES | |
| GENERAL PLAN NO. 5 | |
| REVISION DATES | SHEET OF |
| 01-12-11 08-24-11 10-19-11 10-21-11 | 05 17 |

USERNAME => s117283 DATE PLOTTED => 21-OCT-2011 TIME PLOTTED => 09:44

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|------------|--------------------------|-----------|--------------|
| 07 | LA | 5,134, 405 | Var | 26 | 37 |

10-21-11
 REGISTERED CIVIL ENGINEER DATE
 01-30-12
 PLANS APPROVAL DATE
 No. C65380
 Exp. 09/30/13
 CIVIL
 STATE OF CALIFORNIA
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

LEGEND:

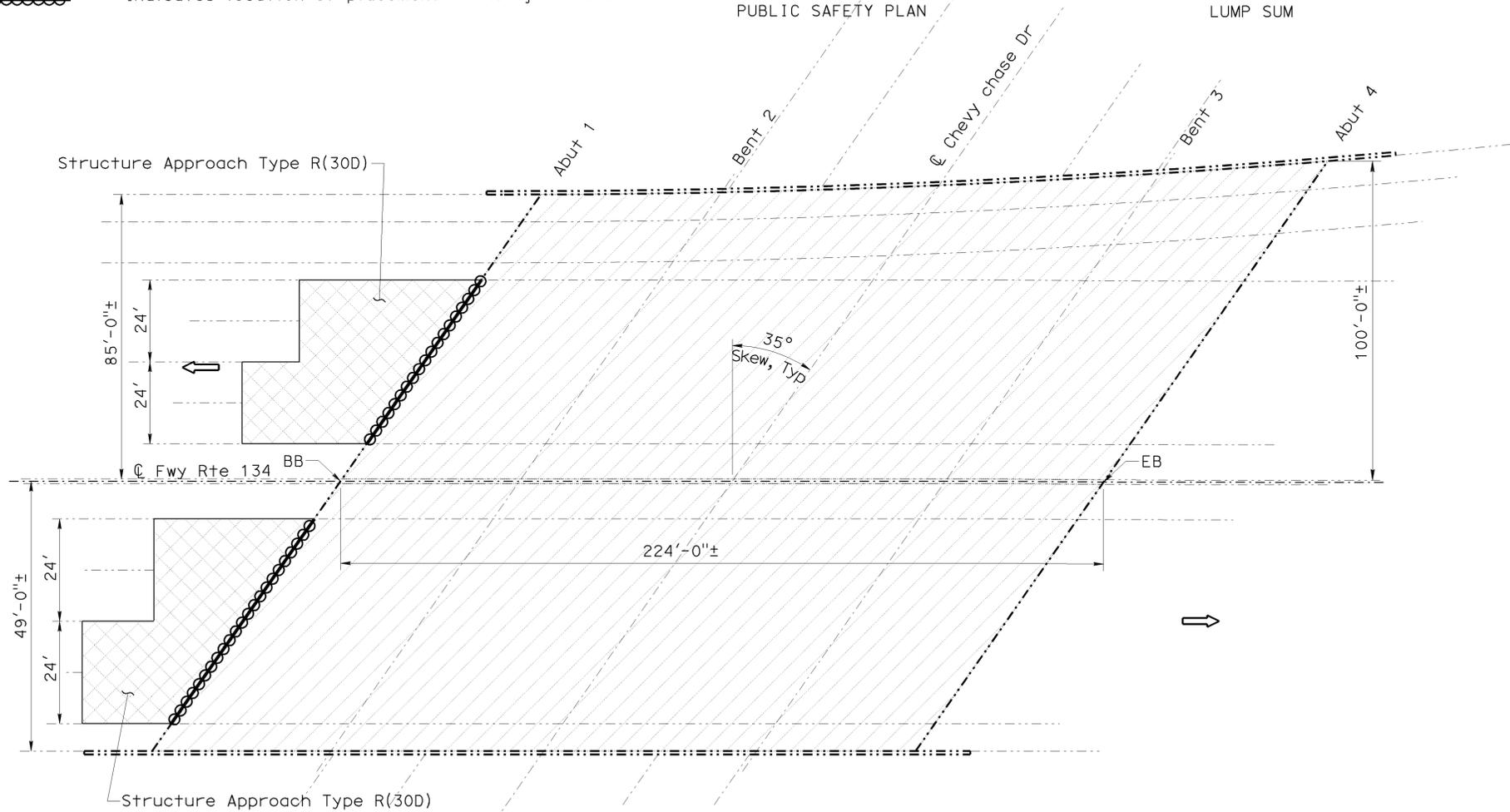
- Indicates existing.
- ⇒ Indicates direction of traffic.
- ▨ Indicates limits of prepare concrete bridge deck surface and treat bridge deck with methacrylate.
- ▩ Indicates limits of remove existing approach and place new Structure Approach Type R(30D) with paving notch extension. For details see "STRUCTURE APPROACH TYPE R(30D)" sheet.
- ⊗ Indicates location of placement of new joint seal.

NOTE:

1. For Approach slab details, see "Structure Approach Type R(30D)" sheet.

CHEVY CHASE DRIVE UC #53-1866
QUANTITIES

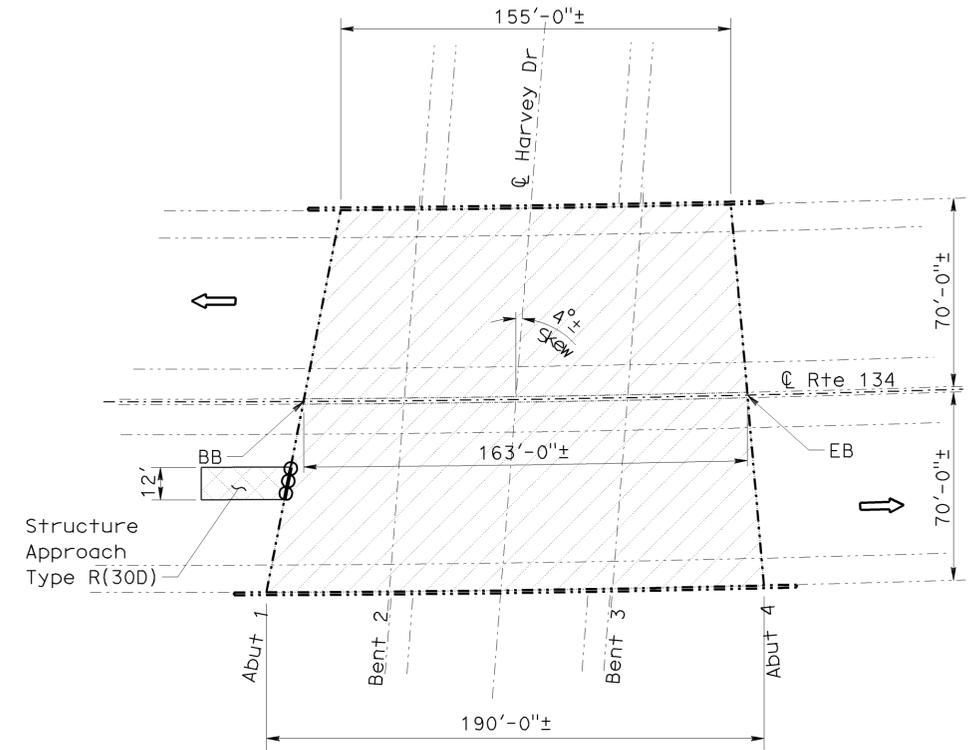
| | |
|---|-------------|
| PREPARE CONCRETE BRIDGE DECK SURFACE | 40,000 SQFT |
| AGGREGATE BASE (APPROACH SLAB) | 14 CY |
| STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R) | 137 CY |
| PAVING NOTCH EXTENSION | 88 CF |
| JOINT SEAL (MR 1/2") | 118 LF |
| TREAT BRIDGE DECK | 40,000 SQFT |
| FURNISH BRIDGE DECK TREATMENT MATERIAL | 500 GAL |
| PUBLIC SAFETY PLAN | LUMP SUM |



CHEVY CHASE DRIVE UC

Br No. 53-1866, Rte 134, PM R8.35
No Scale

NOTE:
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HARVEY DRIVE UC

Br No. 53-1884, Rte 134, PM R8.81
Scale 1"=30'

HARVEY DRIVE UC #53-1884
QUANTITIES

| | |
|---|-------------|
| PREPARE CONCRETE BRIDGE DECK SURFACE | 24,150 SQFT |
| AGGREGATE BASE (APPROACH SLAB) | 2 CY |
| STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R) | 14 CY |
| PAVING NOTCH EXTENSION | 10 CF |
| JOINT SEAL (MR 1/2") | 12 LF |
| TREAT BRIDGE DECK | 24,150 SQFT |
| FURNISH BRIDGE DECK TREATMENT MATERIAL | 305 GAL |
| PUBLIC SAFETY PLAN | LUMP SUM |

TONY D. BRAKE
DESIGN ENGINEER

| | | | | |
|------------|----------------|------------------------|--------------------|--|
| DESIGN | BY Gerald Joo | CHECKED Hong Tien Tran | LOAD FACTOR DESIGN | LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD |
| DETAILS | BY Clayton Tom | CHECKED Gerald Joo | LAYOUT | BY Clayton Tom |
| QUANTITIES | BY Gerald Joo | CHECKED Hong Tien Tran | SPECIFICATIONS | BY Dave Klein |

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

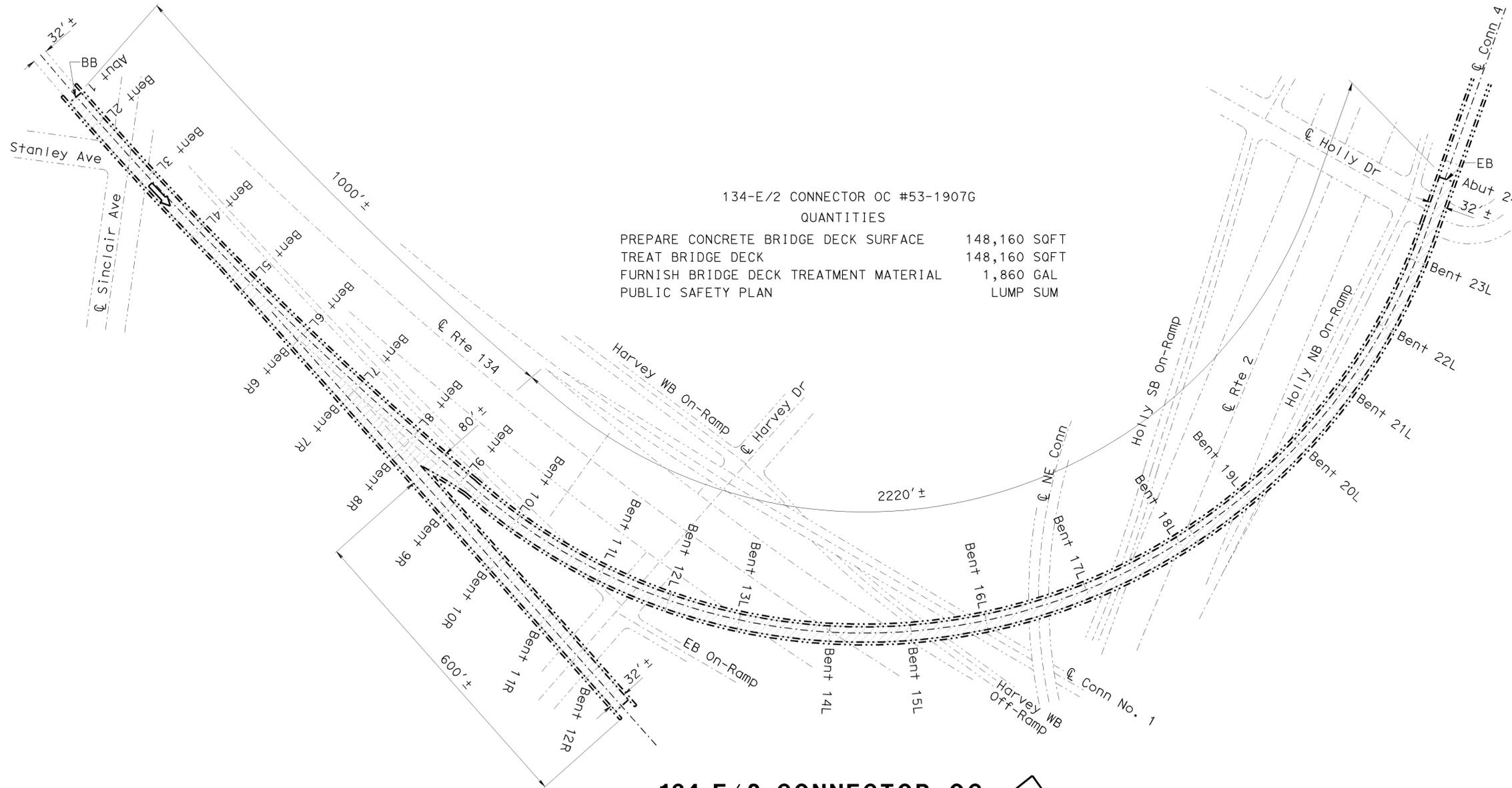
ROUTE 134 BRIDGES
GENERAL PLAN NO. 6

| | | | | | |
|------|--------|-------------|--------------------------|-----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 07 | LA | 5, 134, 405 | Var | 27 | 37 |

10-21-11
 REGISTERED CIVIL ENGINEER DATE
 01-30-12
 PLANS APPROVAL DATE
 No. C65380
 Exp. 09/30/13
 CIVIL
 STATE OF CALIFORNIA
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LEGEND:

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



134-E/2 CONNECTOR OC #53-1907G

QUANTITIES

| | |
|--|--------------|
| PREPARE CONCRETE BRIDGE DECK SURFACE | 148,160 SQFT |
| TREAT BRIDGE DECK | 148,160 SQFT |
| FURNISH BRIDGE DECK TREATMENT MATERIAL | 1,860 GAL |
| PUBLIC SAFETY PLAN | LUMP SUM |

134-E/2 CONNECTOR OC

Br No. 53-1907G, Rte 134, PM R8.81
No Scale



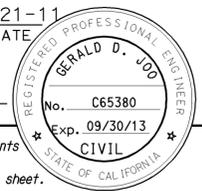
NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITIES FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

| | | | | | |
|---|------------|----------------|------------------------|--------------------|--|
| TONY D. BRAKE DESIGN ENGINEER | DESIGN | BY Gerald Joo | CHECKED Hong Tien Tran | LOAD FACTOR DESIGN | LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD |
| | DETAILS | BY Clayton Tom | CHECKED Gerald Joo | LAYOUT | BY Clayton Tom |
| | QUANTITIES | BY Gerald Joo | CHECKED Hong Tien Tran | SPECIFICATIONS | BY Dave Klein |

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

| | |
|---|---|
| ROUTE 134 BRIDGES GENERAL PLAN NO. 7 | |
| ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 | UNIT: 3489 PROJECT NUMBER & PHASE: 0700020034 1 CONTRACT NO.: 07-4Y7901 |

USERNAME => s117283 DATE PLOTTED => 21-OCT-2011 TIME PLOTTED => 09:44

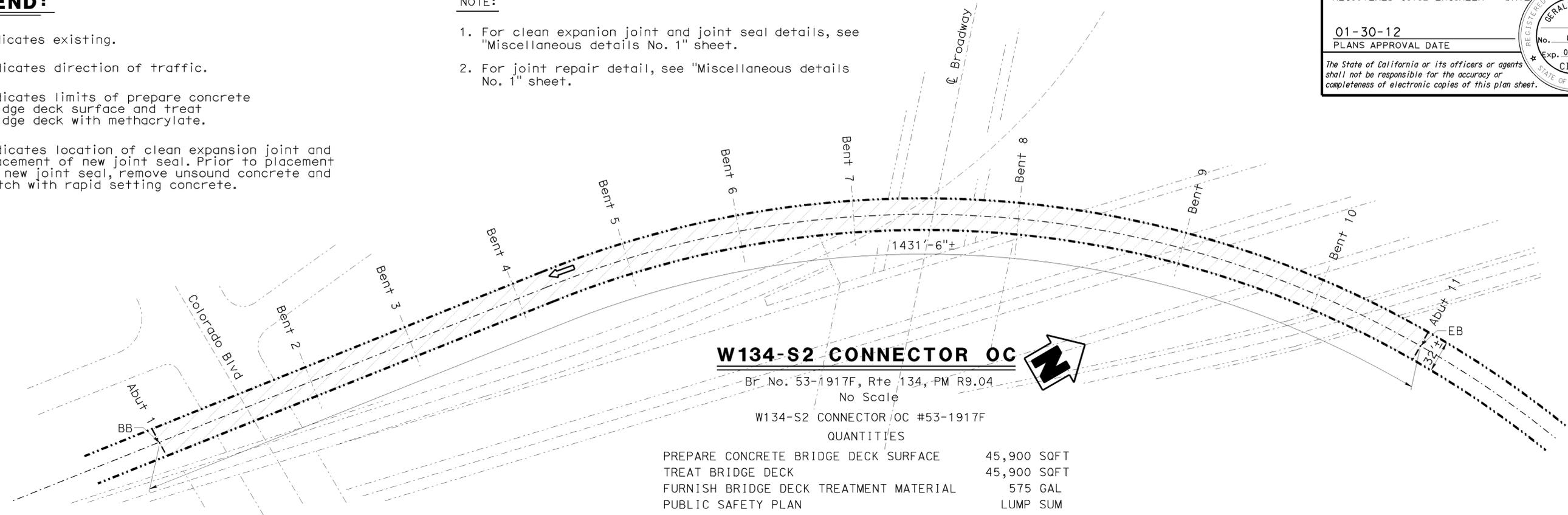
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|---|--------|-------------|---|-----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 07 | LA | 5, 134, 405 | Var | 28 | 37 |
|  REGISTERED CIVIL ENGINEER DATE 10-21-11 | | |  | | |
| 01-30-12 PLANS APPROVAL DATE | | | | | |
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LEGEND:

- Indicates existing.
- ➔ Indicates direction of traffic.
-  Indicates limits of prepare concrete bridge deck surface and treat bridge deck with methacrylate.
- Indicates location of clean expansion joint and placement of new joint seal. Prior to placement of new joint seal, remove unsound concrete and patch with rapid setting concrete.

NOTE:

1. For clean expansion joint and joint seal details, see "Miscellaneous details No. 1" sheet.
2. For joint repair detail, see "Miscellaneous details No. 1" sheet.



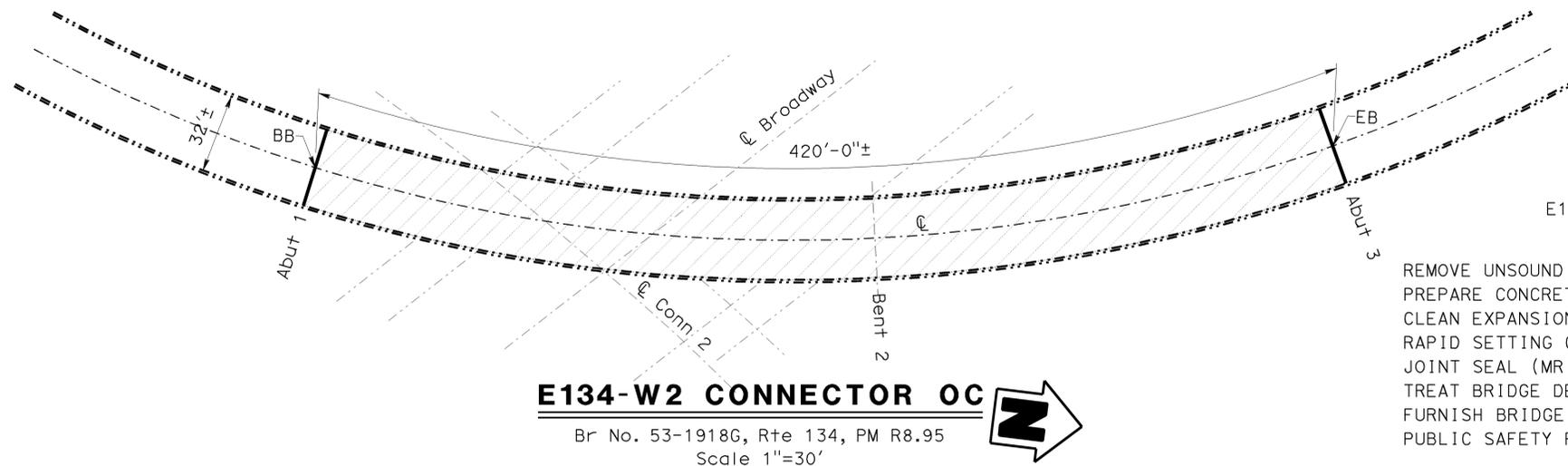
W134-S2 CONNECTOR OC

Br. No. 53-1917F, Rte 134, PM R9.04
No Scale

W134-S2 CONNECTOR OC #53-1917F

QUANTITIES

| | |
|--|-------------|
| PREPARE CONCRETE BRIDGE DECK SURFACE | 45,900 SQFT |
| TREAT BRIDGE DECK | 45,900 SQFT |
| FURNISH BRIDGE DECK TREATMENT MATERIAL | 575 GAL |
| PUBLIC SAFETY PLAN | LUMP SUM |



E134-W2 CONNECTOR OC

Br. No. 53-1918G, Rte 134, PM R8.95
Scale 1"=30'

E134-W2 CONNECTOR OC #53-1918G
QUANTITIES

| | |
|--|-------------|
| REMOVE UNSOUND CONCRETE | 2 CF |
| PREPARE CONCRETE BRIDGE DECK SURFACE | 13,500 SQFT |
| CLEAN EXPANSION JOINT | 64 LF |
| RAPID SETTING CONCRETE (PATCH) | 2 CF |
| JOINT SEAL (MR 2") | 64 LF |
| TREAT BRIDGE DECK | 13,500 SQFT |
| FURNISH BRIDGE DECK TREATMENT MATERIAL | 170 GAL |
| PUBLIC SAFETY PLAN | LUMP SUM |

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| | | | | | |
|---|------------|----------------|------------------------|--------------------|--|
|  DESIGN ENGINEER | DESIGN | BY Gerald Joo | CHECKED Hong Tien Tran | LOAD FACTOR DESIGN | LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD |
| | DETAILS | BY Clayton Tom | CHECKED Gerald Joo | LAYOUT | BY Clayton Tom |
| | QUANTITIES | BY Gerald Joo | CHECKED Hong Tien Tran | SPECIFICATIONS | BY Dave Klein |

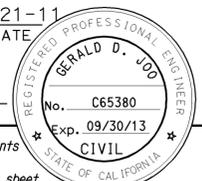
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

| | |
|------------|---------|
| BRIDGE NO. | Various |
| POST MILE | Varies |

ROUTE 134 BRIDGES
GENERAL PLAN NO. 8



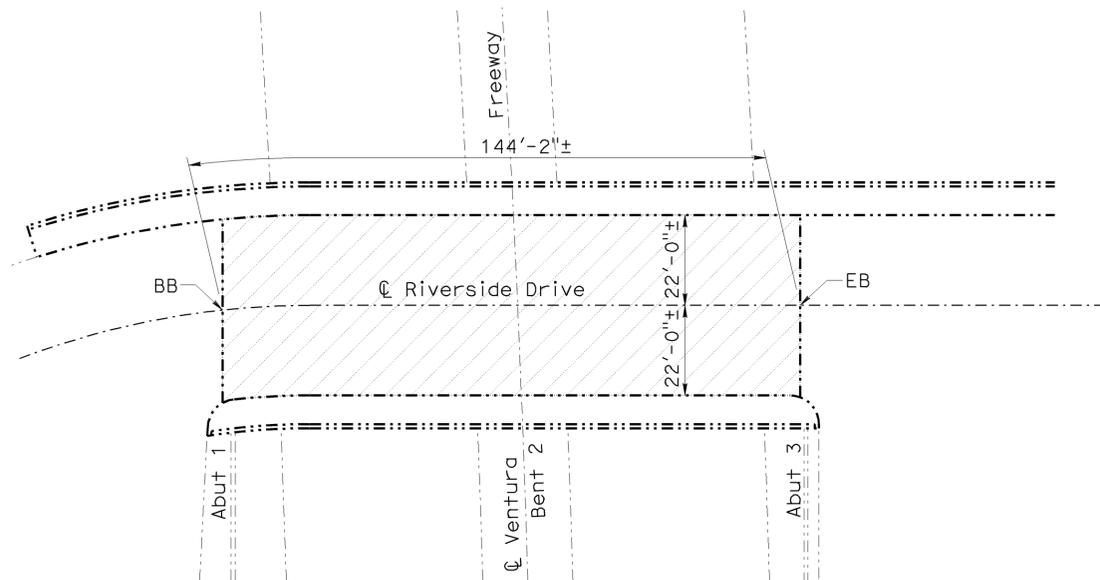
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|---|--------|-------------|--------------------------|--|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 07 | LA | 5, 134, 405 | Var | 29 | 37 |
|  | | | | | |
|  | | | | 10-21-11 REGISTERED CIVIL ENGINEER DATE | |
| 01-30-12 PLANS APPROVAL DATE | | | | | |
| <small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small> | | | | | |

LEGEND:

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- ⇒ Indicates direction of traffic.
-  Indicates limits of prepare concrete bridge deck surface and treat bridge deck with methacrylate.
- Indicates location of clean expansion joint and placement of new joint seal. Prior to placement of new joint seal, remove unsound concrete and patch with rapid setting concrete.

NOTE:

1. For joint repair detail, see "Miscellaneous details No. 1" sheet.
2. For clean expansion joint and joint seal details, see "Miscellaneous details No. 1" sheet.



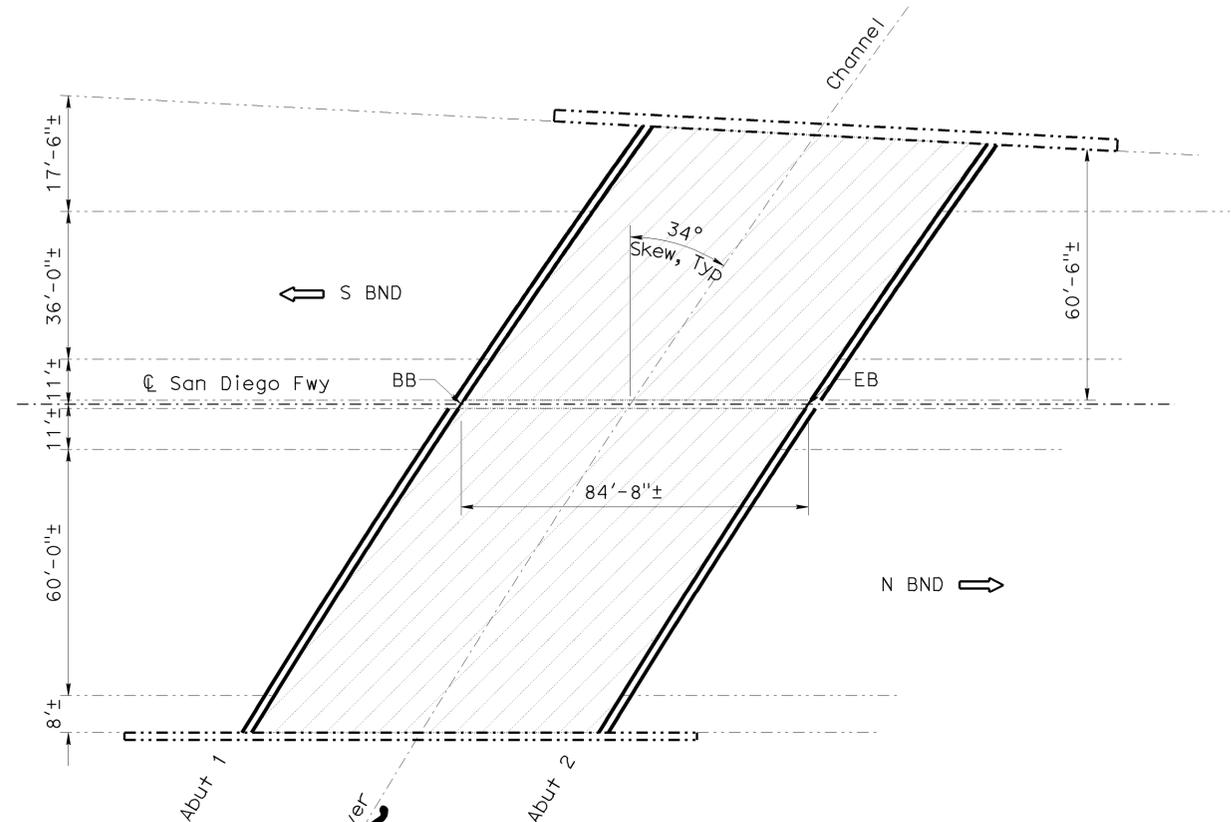
RIVERSIDE DRIVE OC

Br No. 53-1287, Rte 134, PM 4.81
Scale 1"=20'

RIVERSIDE DRIVE OC #53-1287

QUANTITIES

| | |
|--|------------|
| PREPARE CONCRETE BRIDGE DECK SURFACE | 6,400 SQFT |
| TREAT BRIDGE DECK | 6,400 SQFT |
| FURNISH BRIDGE DECK TREATMENT MATERIAL | 80 GAL |
| PUBLIC SAFETY PLAN | LUMP SUM |



LOS ANGELES RIVER

Br No. 53-1159, Rte 405, PM 39.62
Scale 1"=20'

LOS ANGELES RIVER #53-1159

QUANTITIES

| | |
|--|-------------|
| REMOVE UNSOUND CONCRETE | 4 CF |
| PREPARE CONCRETE BRIDGE DECK SURFACE | 12,100 SQFT |
| CLEAN EXPANSION JOINT | 682 LF |
| RAPID SETTING CONCRETE (PATCH) | 4 CF |
| JOINT SEAL (MR 1/2") | 682 LF |
| TREAT BRIDGE DECK | 12,100 SQFT |
| FURNISH BRIDGE DECK TREATMENT MATERIAL | 155 GAL |
| PUBLIC SAFETY PLAN | LUMP SUM |

NOTE:
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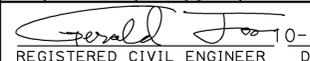
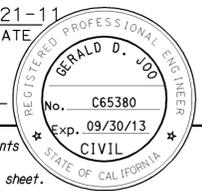
| | | | | | |
|---|------------|----------------|------------------------|--------------------|--|
|  DESIGN ENGINEER | DESIGN | BY Gerald Joo | CHECKED Hong Tien Tran | LOAD FACTOR DESIGN | LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD |
| | DETAILS | BY Clayton Tom | CHECKED Gerald Joo | LAYOUT | BY Clayton Tom |
| | QUANTITIES | BY Gerald Joo | CHECKED Hong Tien Tran | SPECIFICATIONS | BY Dave Klein |

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

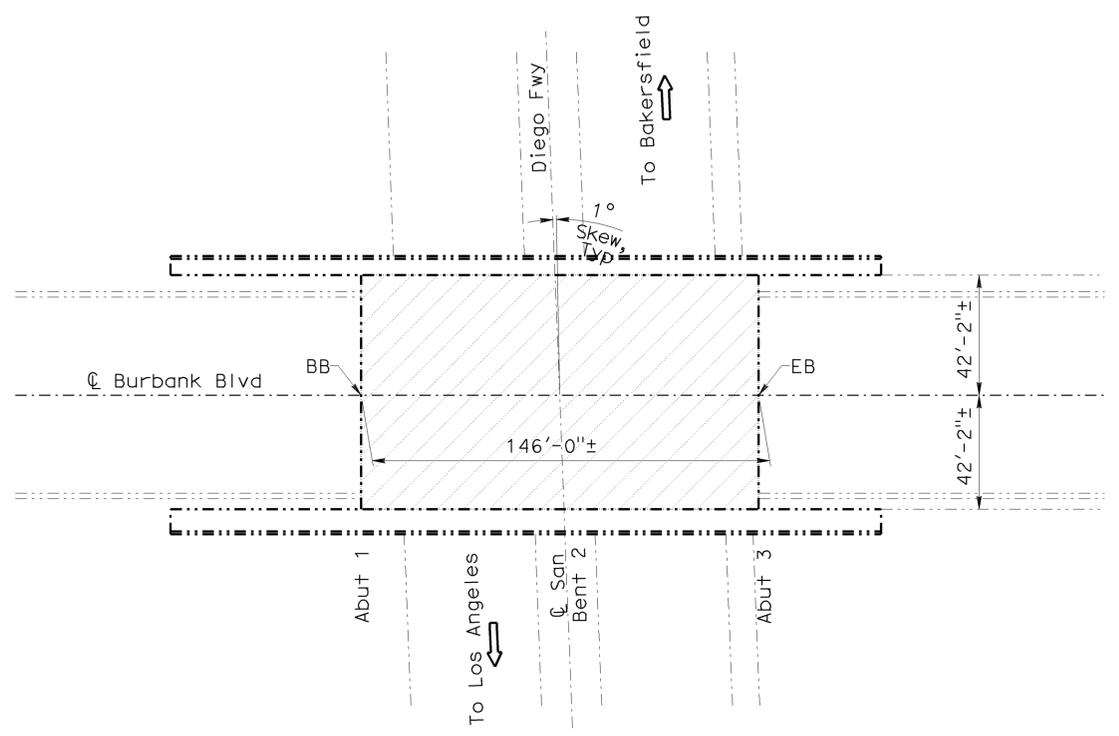
BRIDGE NO. Various
POST MILE Varies

**ROUTE 134 BRIDGES
GENERAL PLAN NO. 9**

| | | | | | |
|---|--------|-------------|--------------------------|---|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 07 | LA | 5, 134, 405 | Var | 30 | 37 |
|  REGISTERED CIVIL ENGINEER DATE 10-21-11 | | | |  | |
| 01-30-12 | | | | PLANS APPROVAL DATE | |
| <small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small> | | | | | |

LEGEND:

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



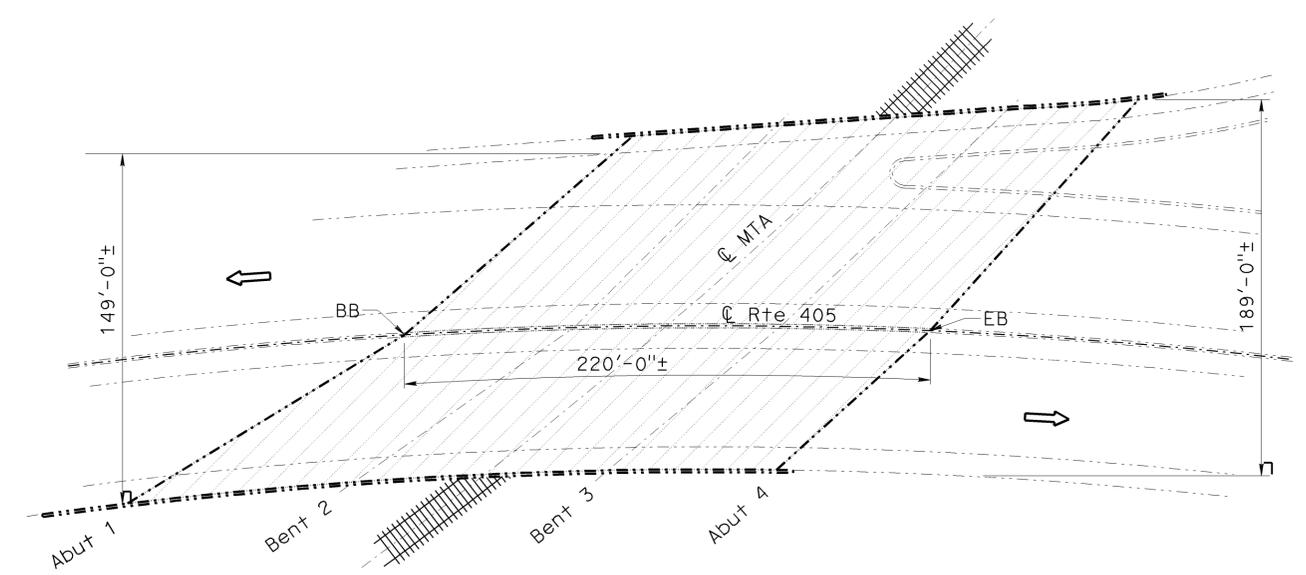
BURBANK BOULEVARD OC 

Br No. 53-1291, Rte 405, PM 40.29
No Scale

BURBANK BOULEVARD OC #53-1291

QUANTITIES

| | |
|--|-------------|
| PREPARE CONCRETE BRIDGE DECK SURFACE | 12,400 SQFT |
| TREAT BRIDGE DECK | 12,400 SQFT |
| FURNISH BRIDGE DECK TREATMENT MATERIAL | 155 GAL |
| PUBLIC SAFETY PLAN | LUMP SUM |



WEST VAN NUYS OH 

Br No. 53-1362, Rte 405, PM 41.27
Scale 1"=40'

WEST VAN NUYS OH #53-1362

QUANTITIES

| | |
|--|-------------|
| PREPARE CONCRETE BRIDGE DECK SURFACE | 37,200 SQFT |
| TREAT BRIDGE DECK | 37,200 SQFT |
| FURNISH BRIDGE DECK TREATMENT MATERIAL | 465 GAL |
| PUBLIC SAFETY PLAN | LUMP SUM |

NOTE:
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| | | | | | |
|---|------------|----------------|------------------------|--------------------|--|
|  DESIGN ENGINEER | DESIGN | BY Gerald Joo | CHECKED Hong Tien Tran | LOAD FACTOR DESIGN | LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD |
| | DETAILS | BY Clayton Tom | CHECKED Gerald Joo | LAYOUT | BY Clayton Tom |
| | QUANTITIES | BY Gerald Joo | CHECKED Hong Tien Tran | SPECIFICATIONS | BY Dave Klein |

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

**ROUTE 134 BRIDGES
GENERAL PLAN NO. 10**

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

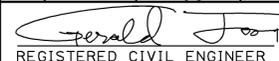
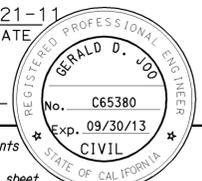
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

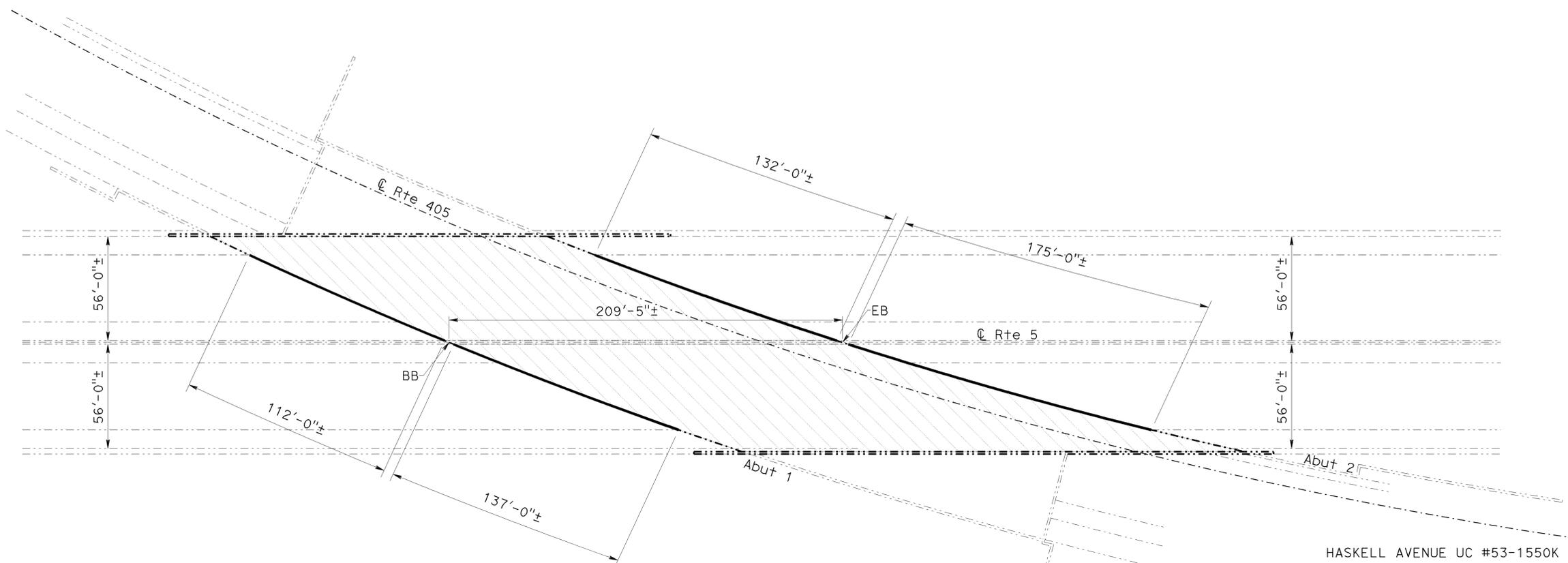


UNIT: 3489
PROJECT NUMBER & PHASE: 0700020034 1 CONTRACT NO.: 07-4Y7901

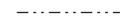
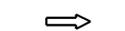
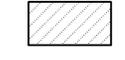
DISREGARD PRINTS BEARING EARLIER REVISION DATES

| | | |
|-------------------------------------|-------|----|
| REVISION DATES | SHEET | OF |
| 01-12-11 05-24-11 10-19-11 10-21-11 | 10 | 17 |

| | | | | | |
|---|--------|-------------|--------------------------|---|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 07 | LA | 5, 134, 405 | Var | 31 | 37 |
|  REGISTERED CIVIL ENGINEER DATE 10-21-11 | | | |  | |
| 01-30-12 PLANS APPROVAL DATE | | | | | |
| <small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small> | | | | | |



LEGEND:

-  Indicates existing.
-  Indicates direction of traffic.
-  Indicates limits of prepare concrete bridge deck surface and treat bridge deck with methacrylate.
-  Indicates limits of removal of existing 3"± thick Asphalt Concrete Overlay. Prepare concrete bridge deck surface, furnish and place new 3" thick polyester concrete overlay. Prior to placing new polyester concrete overlay, remove unsound concrete and patch with rapid setting concrete. Overlay shall be placed in one lift.
-  Indicates location of clean expansion joint and placement of new joint seal. Prior to placement of new joint seal, remove unsound concrete and patch with rapid setting concrete.

ROUTE 5/405 SEPARATION

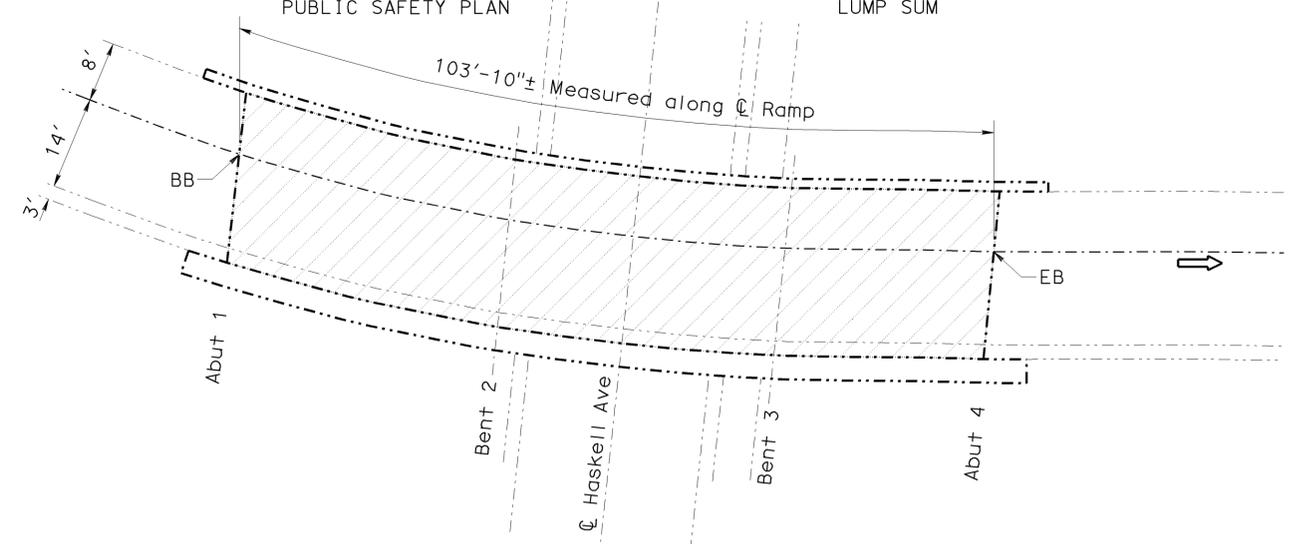
Br No. 53-1133, Rte 5, PM 41.57
Scale 1"=30'

ROUTE 5/405 SEPARATION #53-1133
QUANTITIES

| | |
|--------------------------------------|-------------|
| REMOVE ASPHALT CONCRETE SURFACING | 23,500 SQFT |
| REMOVE UNSOUND CONCRETE | 4 CF |
| PREPARE CONCRETE BRIDGE DECK SURFACE | 23,500 SQFT |
| CLEAN EXPANSION JOINT | 556 LF |
| RAPID SETTING CONCRETE (PATCH) | 4 CF |
| FURNISH POLYESTER CONCRETE OVERLAY | 5,900 CF |
| PLACE POLYESTER CONCRETE OVERLAY | 23,500 SQFT |
| JOINT SEAL (MR 1/2") | 556 LF |
| PUBLIC SAFETY PLAN | LUMP SUM |

HASKELL AVENUE UC #53-1550K
QUANTITIES

| | |
|--|------------|
| PREPARE CONCRETE BRIDGE DECK SURFACE | 2,600 SQFT |
| TREAT BRIDGE DECK | 2,600 SQFT |
| FURNISH BRIDGE DECK TREATMENT MATERIAL | 33 GAL |
| PUBLIC SAFETY PLAN | LUMP SUM |



HASKELL AVENUE UC

Br No. 53-1550K, Rte 405, PM 41.35
No Scale

NOTES:

- For deck repair details, see "Miscellaneous details No. 2" sheet.
- For joint repair details, see "Miscellaneous details No. 1" sheet.

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 Gerald Joo | CHECKED Hong Tien Tran | LOAD FACTOR DESIGN | LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD |
| DETAILS | BY Clayton Tom | CHECKED Gerald Joo | LAYOUT | BY Clayton Tom |
| QUANTITIES | BY Gerald Joo | CHECKED Hong Tien Tran | SPECIFICATIONS | BY Dave Klein |

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

| | |
|------------|---------|
| BRIDGE NO. | Various |
| POST MILE | Varies |

ROUTE 134 BRIDGES
GENERAL PLAN NO. 11

USERNAME => s117283 DATE PLOTTED => 21-OCT-2011 TIME PLOTTED => 09:42

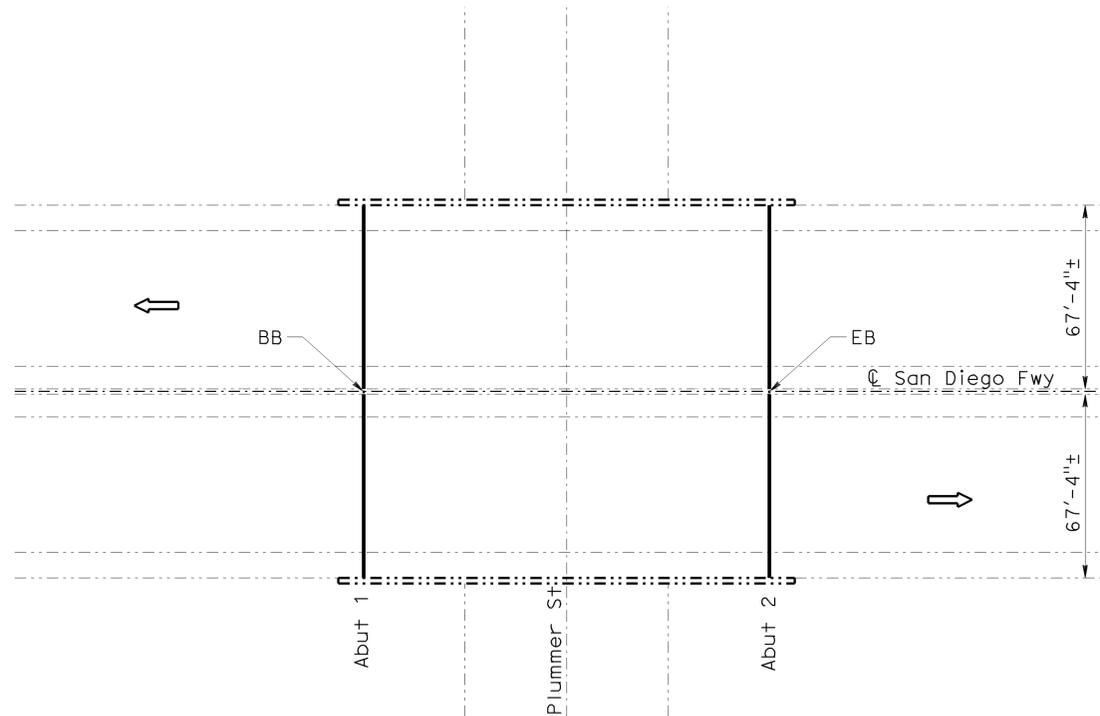
| | | | | | |
|---|--------|-------------|--------------------------|-----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 07 | LA | 5, 134, 405 | Var | 32 | 37 |
| | | | | | |
| 01-30-12 PLANS APPROVAL DATE | | | | | |
| <small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small> | | | | | |

LEGEND:

- Indicates existing.
- ⇒ Indicates direction of traffic.
- Indicates limits of removal of existing 3/4"± thick Asphalt Concrete Overlay. Prepare concrete bridge deck surface, furnish and place new 3/4" thick polyester concrete overlay. Prior to placing new polyester concrete overlay, remove unsound concrete and patch with rapid setting concrete. Overlay shall be placed in one lift.
- Indicates location of clean expansion joint and placement of new joint seal. Prior to placement of new joint seal, remove unsound concrete and patch with rapid setting concrete.

NOTES:

1. For deck damage repair detail, see "MISCELLANEOUS DETAILS No. 2" sheet.
2. For clean expansion joint and joint seal details, see "MISCELLANEOUS DETAILS No. 1" sheet.
3. For joint repair detail, see "MISCELLANEOUS DETAILS No. 1" sheet.



PLUMMER STREET UC

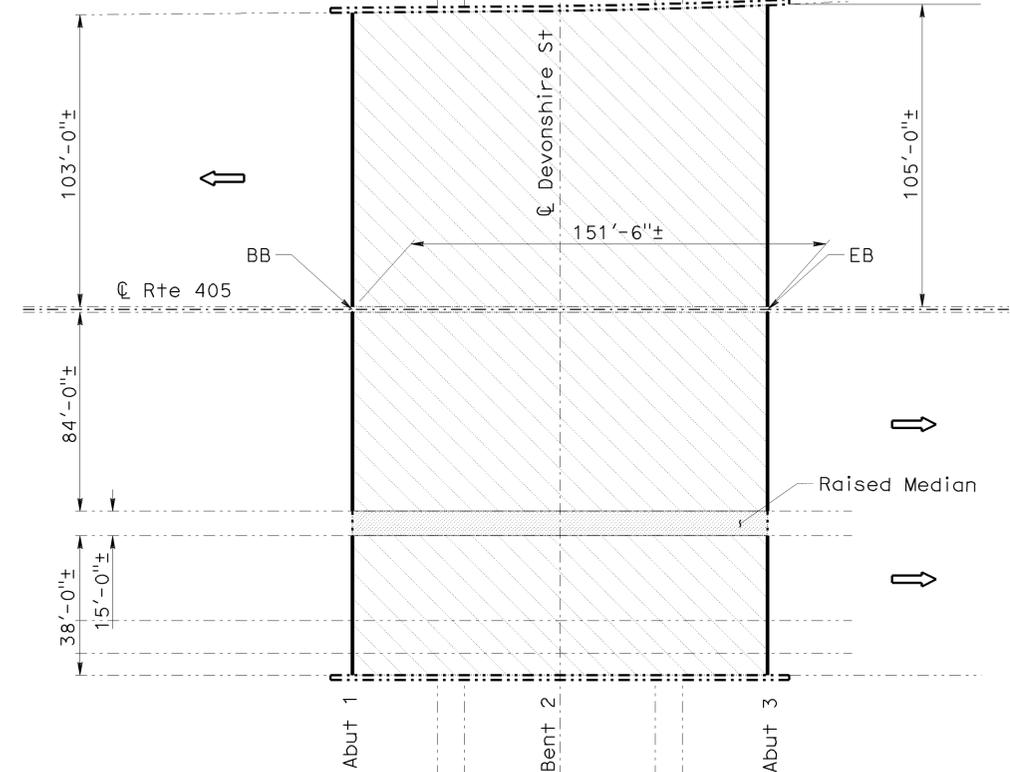
Br No. 53-1496, Rte 405, PM 45.24
Scale 1"=30'

PLUMMER STREET UC #53-1496

QUANTITIES

| | | |
|--------------------------------|-----|----|
| REMOVE UNSOUND CONCRETE | 2 | CF |
| CLEAN EXPANSION JOINT | 270 | LF |
| RAPID SETTING CONCRETE (PATCH) | 2 | CF |
| JOINT SEAL (MR 1/2") | 270 | LF |

NOTE:
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DEVONSHIRE STREET UC

Br No. 53-1500, Rte 405, PM 46.24
Scale 1"=30'

DEVONSHIRE STREET UC #53-1500

QUANTITIES

| | | |
|--------------------------------------|--------|----------|
| REMOVE ASPHALT CONCRETE SURFACING | 34,300 | SQFT |
| REMOVE UNSOUND CONCRETE | 4 | CF |
| PREPARE CONCRETE BRIDGE DECK SURFACE | 34,300 | SQFT |
| CLEAN EXPANSION JOINT | 452 | LF |
| RAPID SETTING CONCRETE (PATCH) | 4 | CF |
| FURNISH POLYESTER CONCRETE OVERLAY | 2,160 | CF |
| PLACE POLYESTER CONCRETE OVERLAY | 34,300 | SQFT |
| JOINT SEAL (MR 1/2") | 452 | LF |
| PUBLIC SAFETY PLAN | | LUMP SUM |

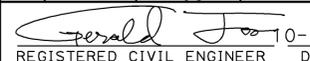
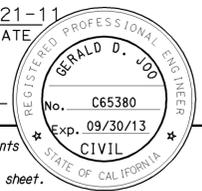
| | | | | | |
|--------------------------------------|------------|----------------|------------------------|--------------------|--|
| TONY D. BRAKE DESIGN ENGINEER | DESIGN | BY Gerald Joo | CHECKED Hong Tien Tran | LOAD FACTOR DESIGN | LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD |
| | DETAILS | BY Clayton Tom | CHECKED Gerald Joo | LAYOUT | BY Clayton Tom |
| | QUANTITIES | BY Gerald Joo | CHECKED Hong Tien Tran | SPECIFICATIONS | BY Dave Klein |

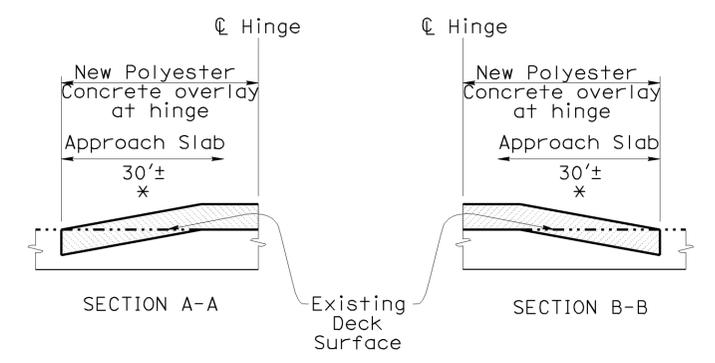
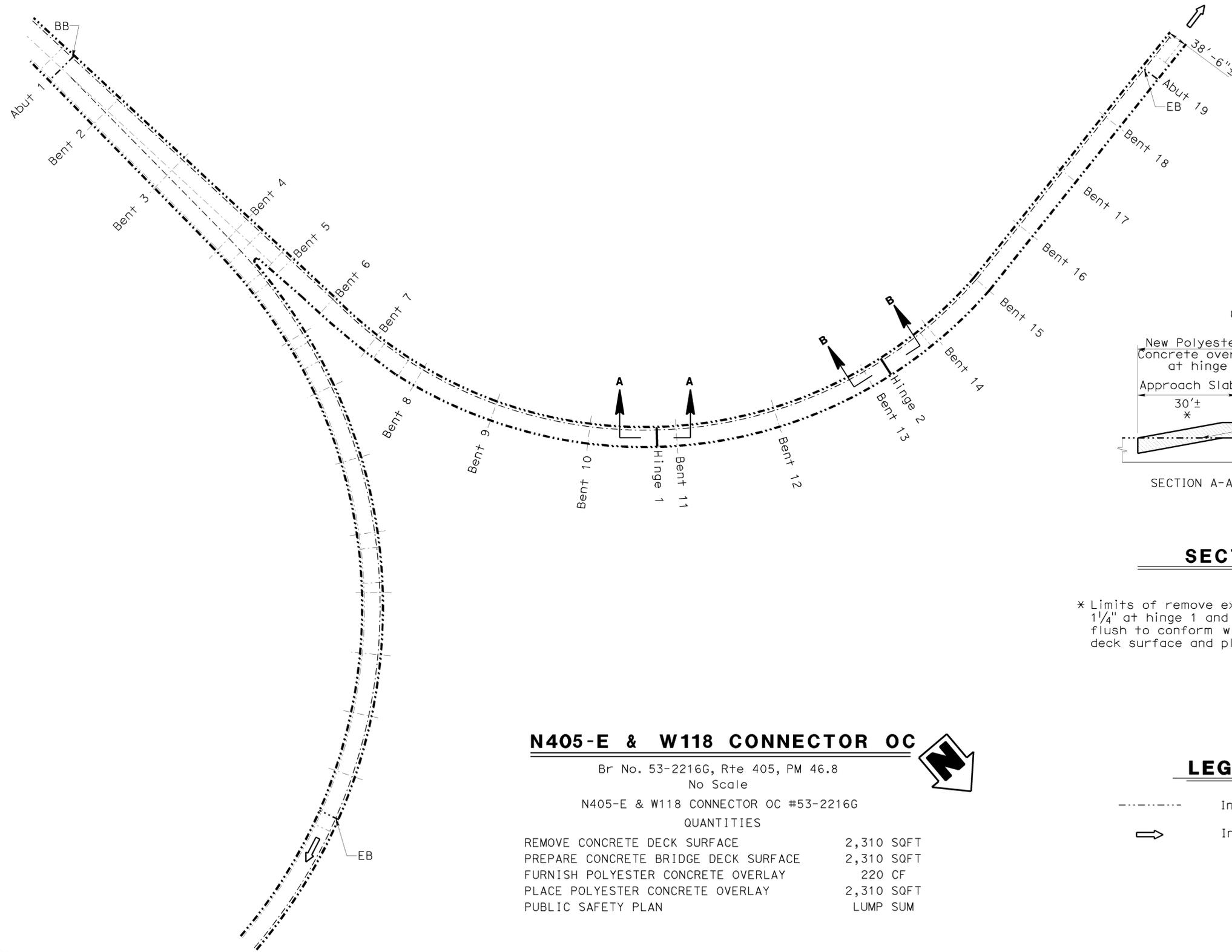
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

**ROUTE 134 BRIDGES
GENERAL PLAN NO. 12**

| | | | | | |
|---|--------|------------|---|-----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 07 | LA | 5,134, 405 | Var | 33 | 37 |
|  REGISTERED CIVIL ENGINEER DATE 10-21-11 | | |  | | |
| 01-30-12 PLANS APPROVAL DATE | | | | | |
| <small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small> | | | | | |



SECTION A-A & B-B

No Scale

* Limits of remove existing concrete surfacing 0 inch min to 1 1/4" at hinge 1 and 1" at hinge 2 maximum full width. Remove flush to conform with existing profile. Prepare concrete bridge deck surface and place polyester concrete overlay.

N405-E & W118 CONNECTOR OC

Br No. 53-2216G, Rte 405, PM 46.8
No Scale

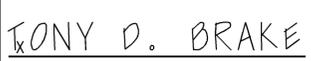
N405-E & W118 CONNECTOR OC #53-2216G
QUANTITIES

| | |
|--------------------------------------|------------|
| REMOVE CONCRETE DECK SURFACE | 2,310 SQFT |
| PREPARE CONCRETE BRIDGE DECK SURFACE | 2,310 SQFT |
| FURNISH POLYESTER CONCRETE OVERLAY | 220 CF |
| PLACE POLYESTER CONCRETE OVERLAY | 2,310 SQFT |
| PUBLIC SAFETY PLAN | LUMP SUM |

LEGEND:

- Indicates existing.
- ⇒ Indicates direction of traffic.

NOTE:
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| | | | | | | | | | |
|---|------------|----------------|------------------------|--------------------|--|---|--|--|---|
|  DESIGN ENGINEER | DESIGN | BY Gerald Joo | CHECKED Hong Tien Tran | LOAD FACTOR DESIGN | LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | BRIDGE NO. | ROUTE 134 BRIDGES GENERAL PLAN NO. 13 | |
| | DETAILS | BY Clayton Tom | CHECKED Gerald Joo | LAYOUT | BY Clayton Tom | | CHECKED Gerald Joo | | POST MILE |
| | QUANTITIES | BY Gerald Joo | CHECKED Hong Tien Tran | SPECIFICATIONS | BY Dave Klein | CHECKED Dave Klein | VARIES | | |
| STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10) | | | | | | ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | UNIT: 3489 PROJECT NUMBER & PHASE: 0700020034 1 | CONTRACT NO.: 07-4Y7901 | DISREGARD PRINTS BEARING EARLIER REVISION DATES |
| | | | | | | 0 1 2 3 | REVISION DATES | SHEET 13 OF 17 | |

JOINT SEAL TABLE

| BRIDGE NAME | BRIDGE NUMBER | JOINT SEAL LOCATION | MINIMUM "MR" (INCHES) | EXISTING WATERSTOP | APPROX DEPTH TO CLEAN EXP JOINT (INCHES) | REMOVE UNSOUND CONCRETE (cu ft) | RAPID SETTING CONCRETE (Patch) (cu ft) |
|----------------------|---------------|---------------------|-----------------------|--------------------|--|---------------------------------|--|
| Forman Avenue UC | 53-1276 | Abut 1, PN | 1/2 | No | 12 | 1 | 1 |
| | | Abut 2, PN | 1/2 | No | 12 | 1 | 1 |
| Los Angeles River | 53-1159 | Abut 1, PN | 1/2 | No | 12 | 1 | 1 |
| | | Abut 1, BW | 1/2 | No | 12 | 1 | 1 |
| | | Abut 2, PN | 1/2 | No | 12 | 1 | 1 |
| | | Abut 2, BW | 1/2 | No | 12 | 1 | 1 |
| Plummer Street UC | 53-1496 | Abut 1, PN | 1/2 | No | 12 | 1 | 1 |
| | | Abut 2, PN | 1/2 | No | 12 | 1 | 1 |
| Devonshire Street UC | 53-1500 | Abut 1, PN | 1/2 | Yes | 12 | 2 | 2 |
| | | Abut 3, PN | 1/2 | Yes | 12 | 2 | 2 |
| W134-5 Conn BOH | 53-1790H | Abut F-1, PN | 1/2 | No | 12 | - | - |
| | | Abut D-1, PN | 1/2 | No | 12 | - | - |
| Chevy Chase Drive UC | 53-1866 | Abut 1, PN | 1 1/2 | No | 12 | - | - |
| Harvey Drive UC | 53-1844 | Abut 1, PN | 1/2 | No | 12 | - | - |
| | | | | | | | |
| E134-W2 Conn OC | 53-1918G | Abut 1, PN | 2 | No | 12 | 1 | 1 |
| | | Abut 3, PN | 2 | No | 12 | 1 | 1 |
| Route 5/405 Sep | 53-1133 | Abut 1, PN | 1/2 | No | 12 | 2 | 2 |
| | | Abut 2, PN | 1/2 | No | 12 | 2 | 2 |

| | | | | | |
|------|--------|-------------|--------------------------|-----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 07 | LA | 5, 134, 405 | Var | 34 | 37 |

10-21-11
 REGISTERED CIVIL ENGINEER DATE
 01-30-12
 PLANS APPROVAL DATE

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

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NOTES:

The following notes apply to JOINT SEAL TYPE A:

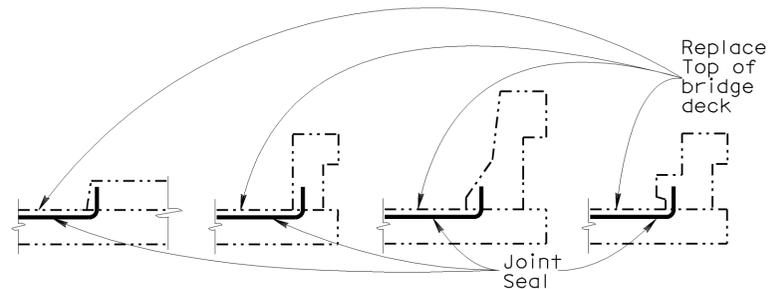
Install Joint Seal (MR = 1/2") or Silicone Joint Seal 3" up into curb or barrier rail on the low side of the deck where deck joint aligns with curb or barrier rail joint.

For details not shown see RSP B6-21.

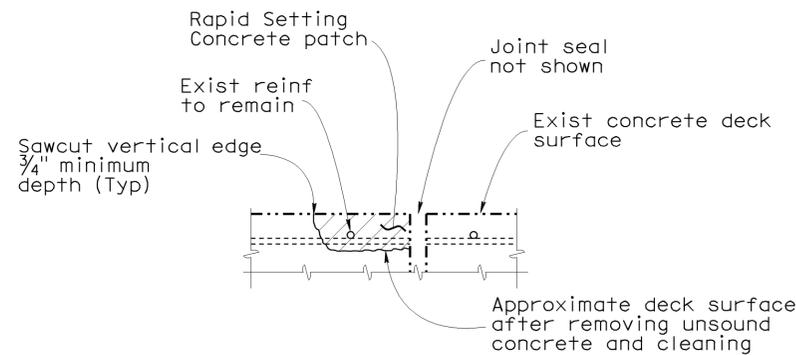
The following notes apply to JOINT SEAL TYPE B:

- 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 RSP B6-21.



BARRIER RAIL



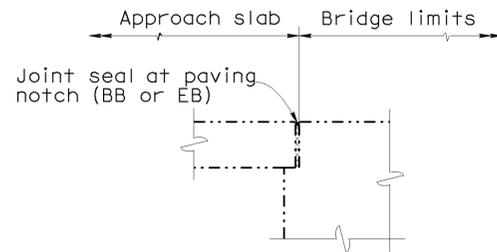
JOINT REPAIR DETAIL

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

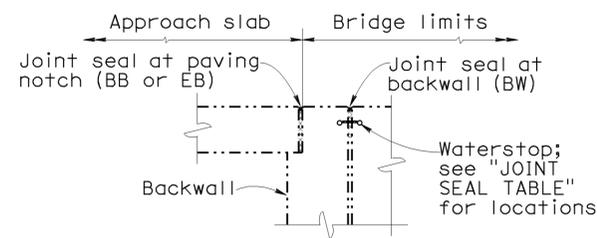
JOINT SEAL AT LOW SIDE OF DECK

Note: Details shown for illustration purposes only.

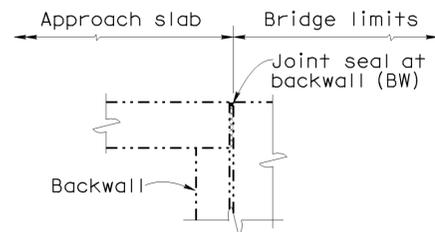
For use only where deck joint matches the sidewalk, curb or barrier rail joint.



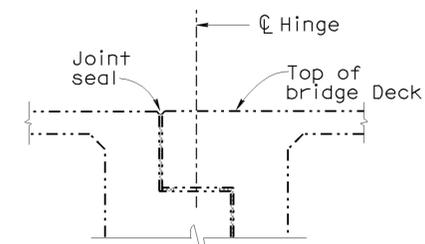
DIAPHRAGM ABUTMENT



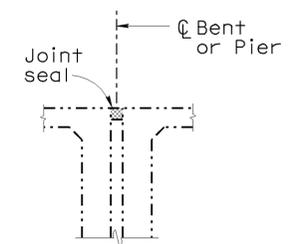
ABUTMENT WITH BACKWALL AND PAVING NOTCH



ABUTMENT WITH BACKWALL



HINGE



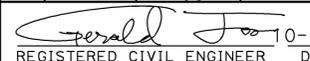
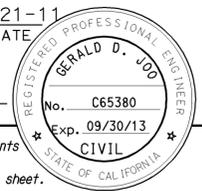
BENT OR PIER

JOINT SEAL LOCATION

NO SCALE

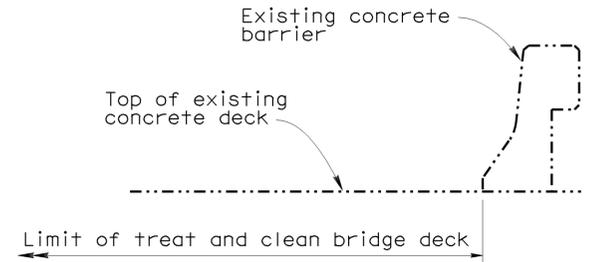
NOTE:
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| | | | | |
|---|--|--|---|---|
| DESIGN BY Gerald Joo CHECKED BY Hong Tien Tran DETAILS BY Clayton Tom CHECKED BY Gerald Joo QUANTITIES BY Gerald Joo CHECKED BY Hong Tien Tran | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN | BRIDGE NO. Various POST MILE Varies | ROUTE 134 BRIDGES MISCELLANEOUS 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: 0700020034 1 CONTRACT NO.: 07-4Y7901 | DISREGARD PRINTS BEARING EARLIER REVISION DATES REVISION DATES: 07-12-11, 08-24-11, 10-19-11, 10-21-11 SHEET 14 OF 17 |

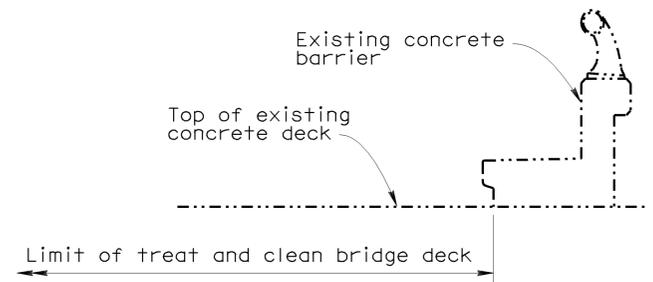
| | | | | | |
|---|--------|-------------|---|-----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 07 | LA | 5, 134, 405 | Var | 35 | 37 |
|  REGISTERED CIVIL ENGINEER DATE 10-21-11 | | |  | | |
| 01-30-12 PLANS APPROVAL DATE | | | | | |
| <small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small> | | | | | |

DECK REPAIR NOTES:

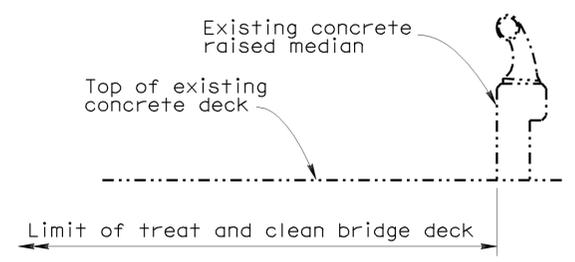
- Existing reinforcement shall be protected in place during unsound concrete removal and patching operations.
- It is responsibility of the Contractor to repair any reinforcement that is accidentally cut by saw cutting operations.
- When existing transverse reinforcement is exposed in the deck surface,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



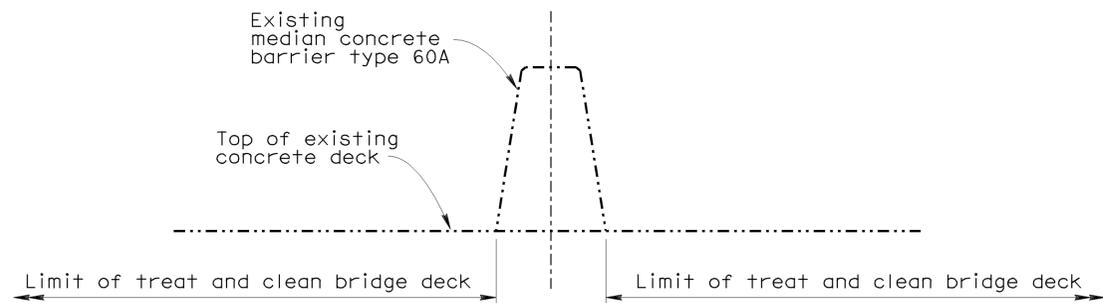
EOD BARRIER



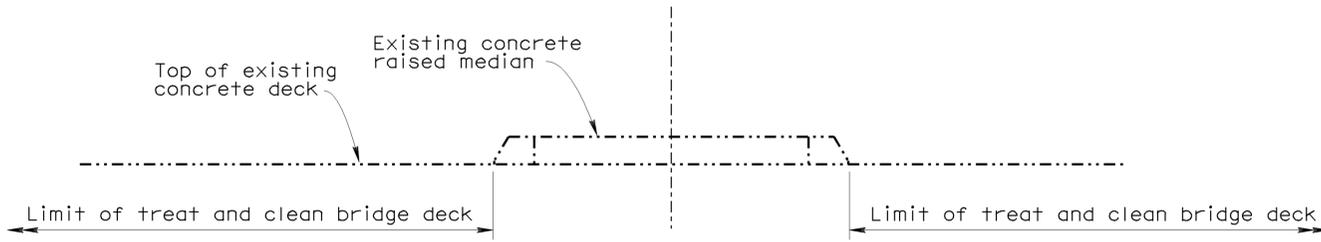
SIDEWALK BARRIER TYPE 2



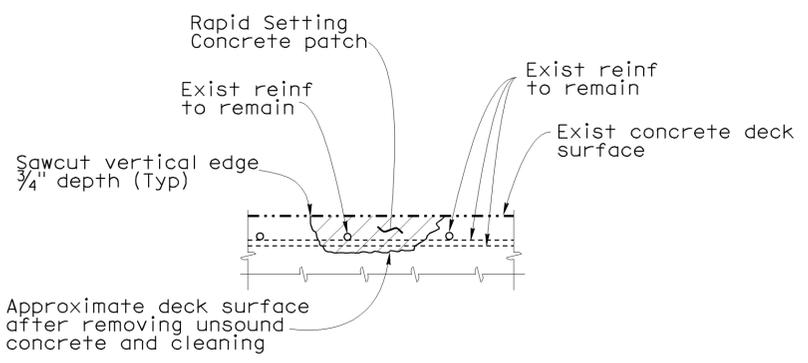
SIDEWALK BARRIER TYPE 1



MEDIAN BARRIER



RAISED MEDIAN



DECK DAMAGE REPAIR DETAIL

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

NOTE:
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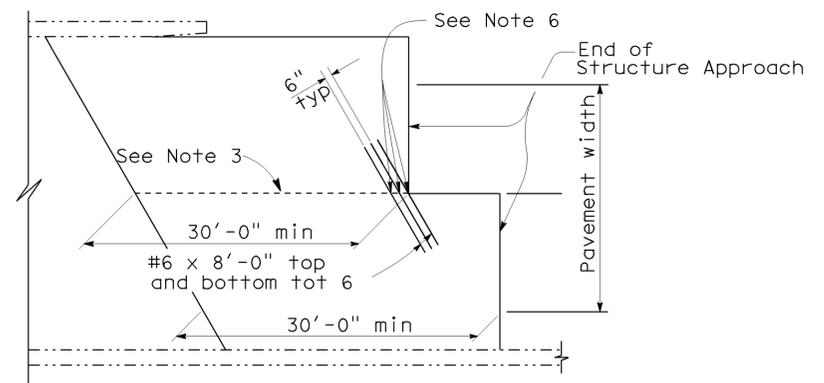
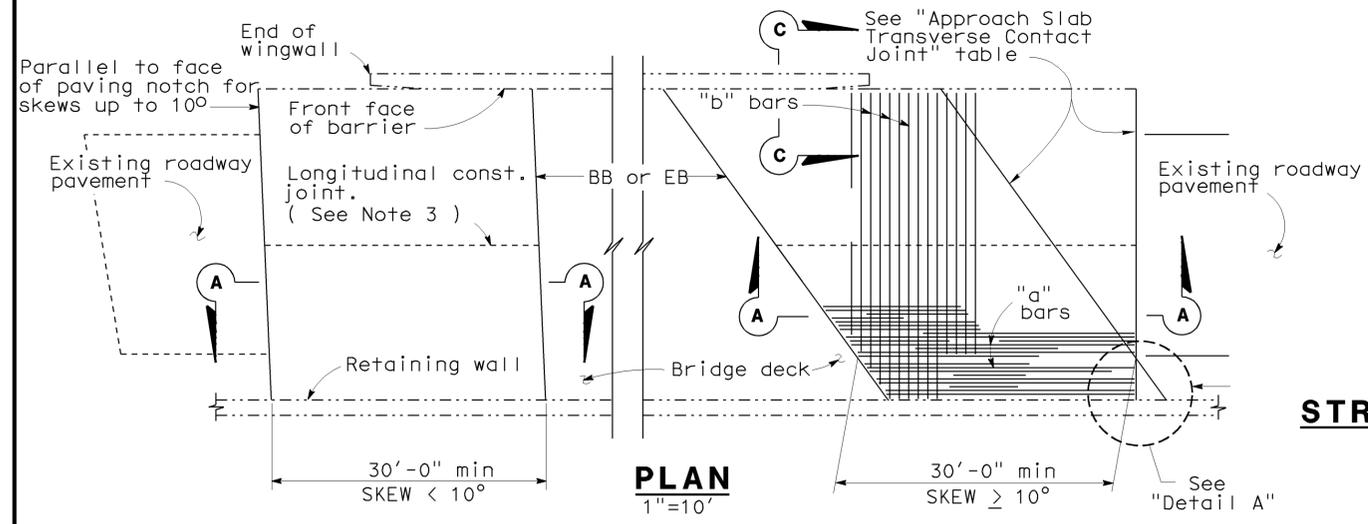
TYPICAL LIMITS OF DECK WORK

NO SCALE

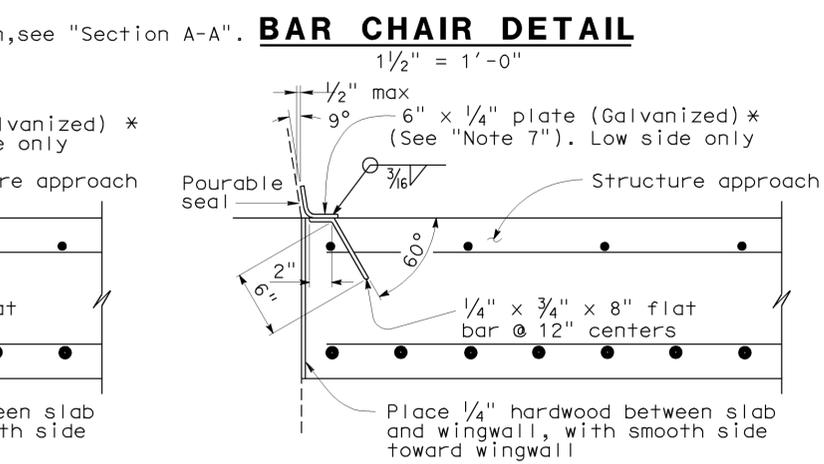
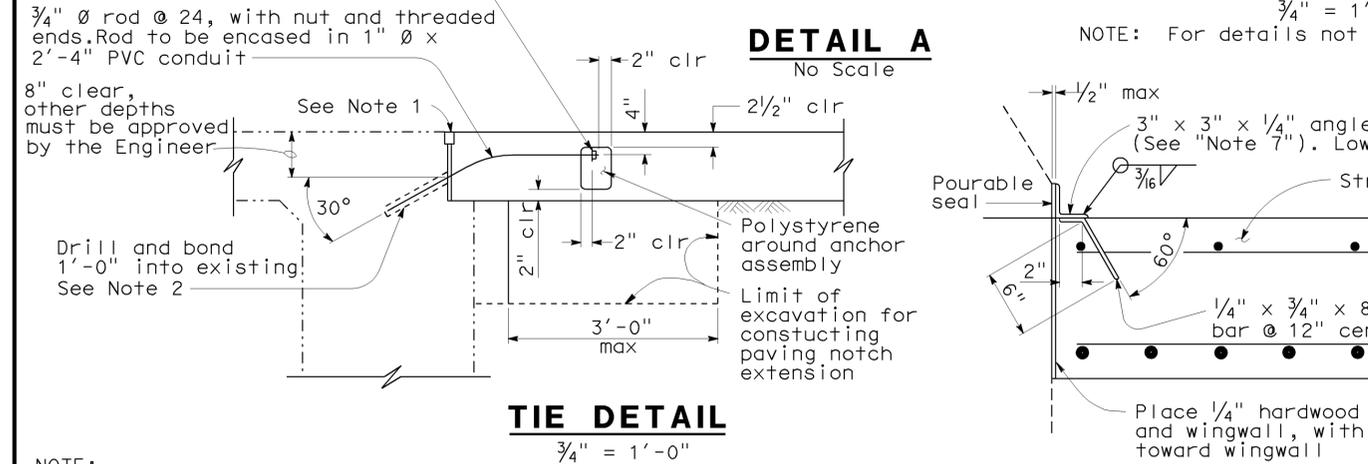
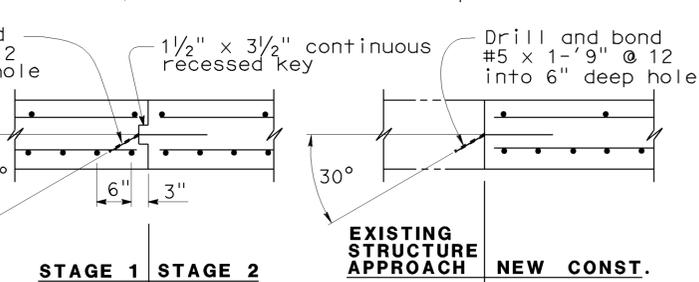
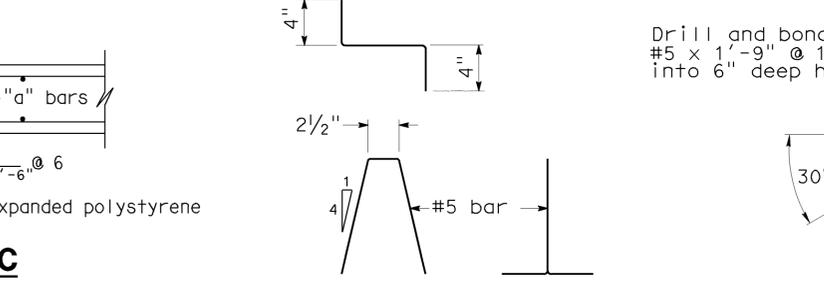
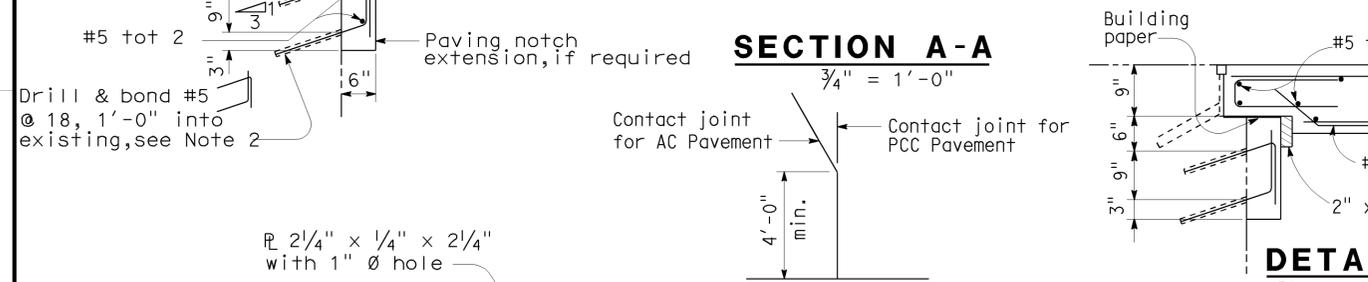
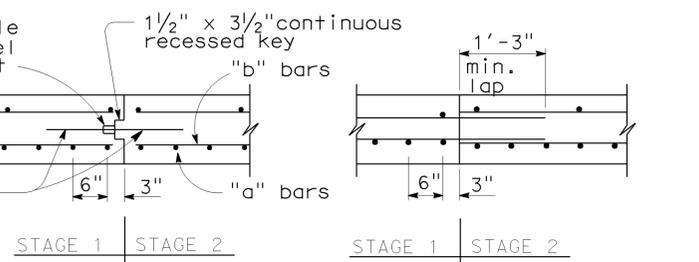
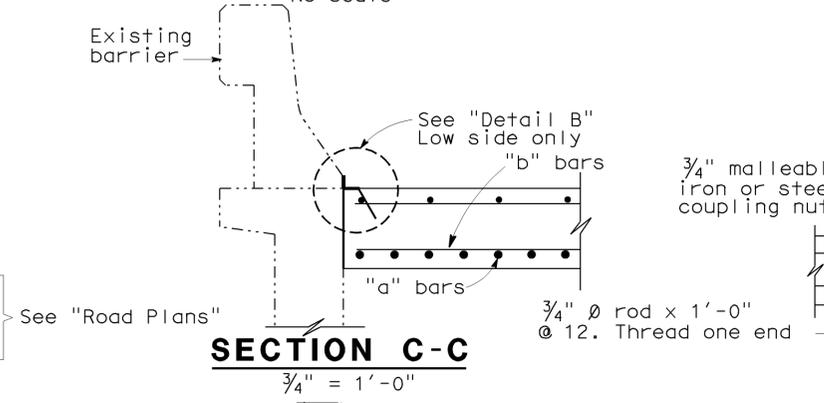
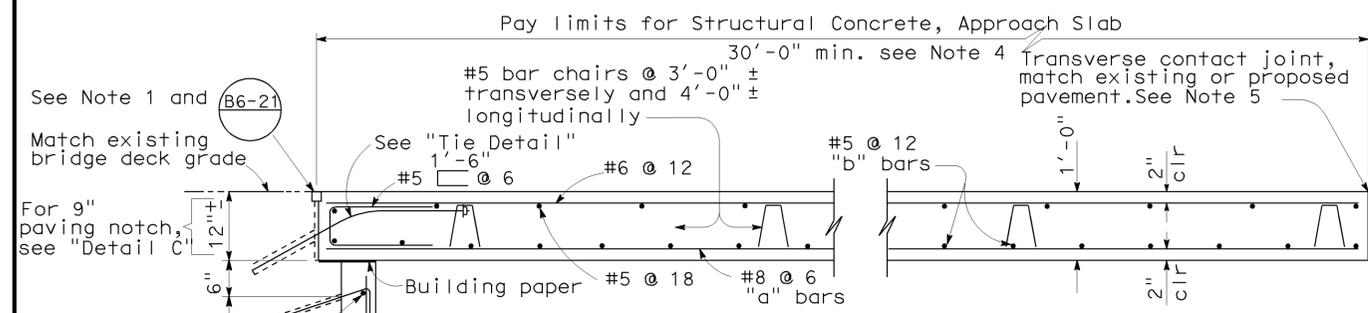
| | | | | | | | | | | |
|---|------------|----------------|------------------------|---|---|--|-------------------------|---|----------------|----------------|
| STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 09-01-10) | DESIGN | BY Gerald Joo | CHECKED Hong Tien Tran | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN | BRIDGE NO. | ROUTE 134 BRIDGES | | | |
| | DETAILS | BY Clayton Tom | CHECKED Gerald Joo | | | Various | | | | |
| | QUANTITIES | BY Gerald Joo | CHECKED Hong Tien Tran | | | Varies | | MISCELANEOUS DETAILS NO. 2 | | |
| ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | | | | | 0 1 2 3 | UNIT: 3489 PROJECT NUMBER & PHASE: 0700020034 1 | CONTRACT NO.: 07-4Y7901 | DISREGARD PRINTS BEARING EARLIER REVISION DATES | REVISION DATES | SHEET 15 OF 17 |

USERNAME => s117263 DATE PLOTTED => 21-OCT-2011 TIME PLOTTED => 09:41

| | | | | | |
|--|--------|------------|--------------------------|-----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 07 | LA | 5,134, 405 | Var | 36 | 37 |
| | | | | | |
| 01-30-12 PLANS APPROVAL DATE | | | | | |
| The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet. | | | | | |



| APPROACH SLAB TRANSVERSE CONTACT JOINT | | |
|--|--|----------------------------------|
| APPROACH SKEW | WITH AC ROADWAY PAVEMENT | WITH PCC ROADWAY PAVEMENT |
| < 10° | Parallel to face of paving notch | Parallel to face of paving notch |
| 10° - 45° | Parallel to face of P N use (Detail A) | Stagger lines 24' to 36' apart |
| > 45° | Parallel to face of P N use (Detail A) | Stagger at each lane line |

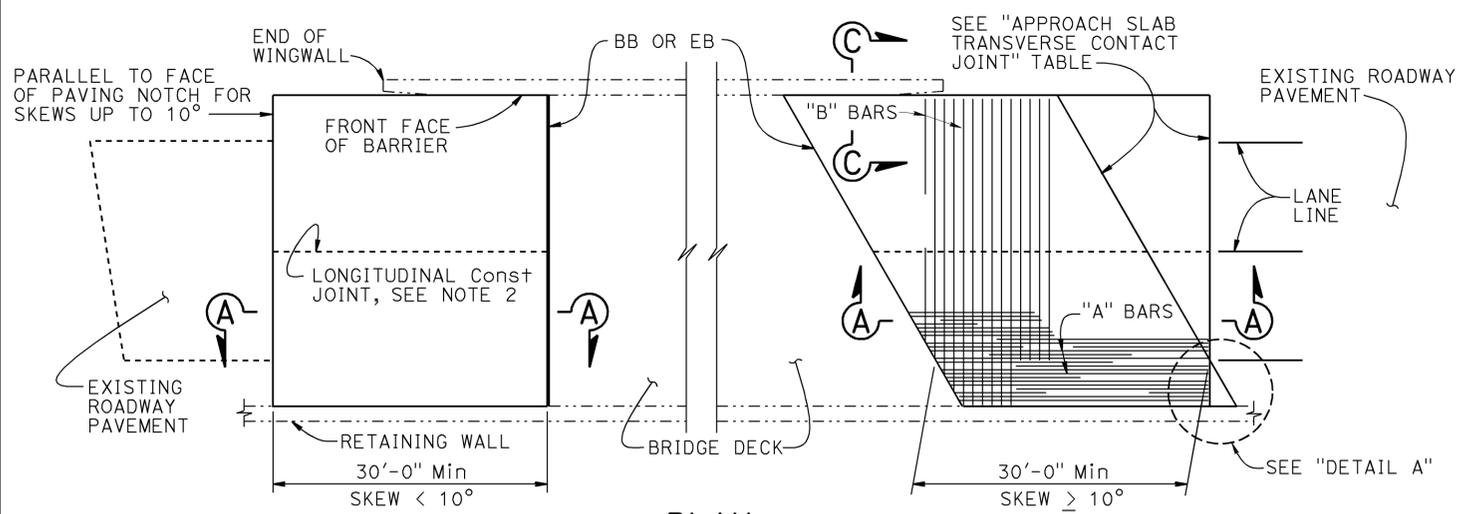


- NOTES:**
- For details not shown or noted, see Structure Plans. Adjust bar reinforcement to clear a sawcut for sealed joint, when required.
 - Space to avoid existing prestress anchorages and main reinforcement.
 - Longitudinal construction joints, when permitted by the Engineer, shall be located on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

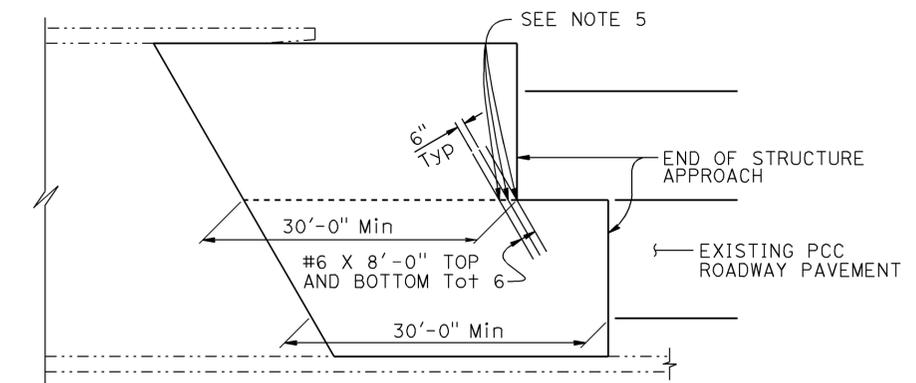
NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

| STANDARD DRAWING | | | |
|-------------------------|---------------------------|---------------------------|--------------|
| RELEASE DATE 3/14/05 | DESIGN BY M. TRAFFALIS | CHECKED E. THORKILDSEN | RELEASED BY |
| FILE NO. xs3-140e | DETAILS BY R. YEE | CHECKED E. THORKILDSEN | |
| | SUBMITTED BY M. HA | DRAWING DATE 8/92 | OFFICE CHIEF |

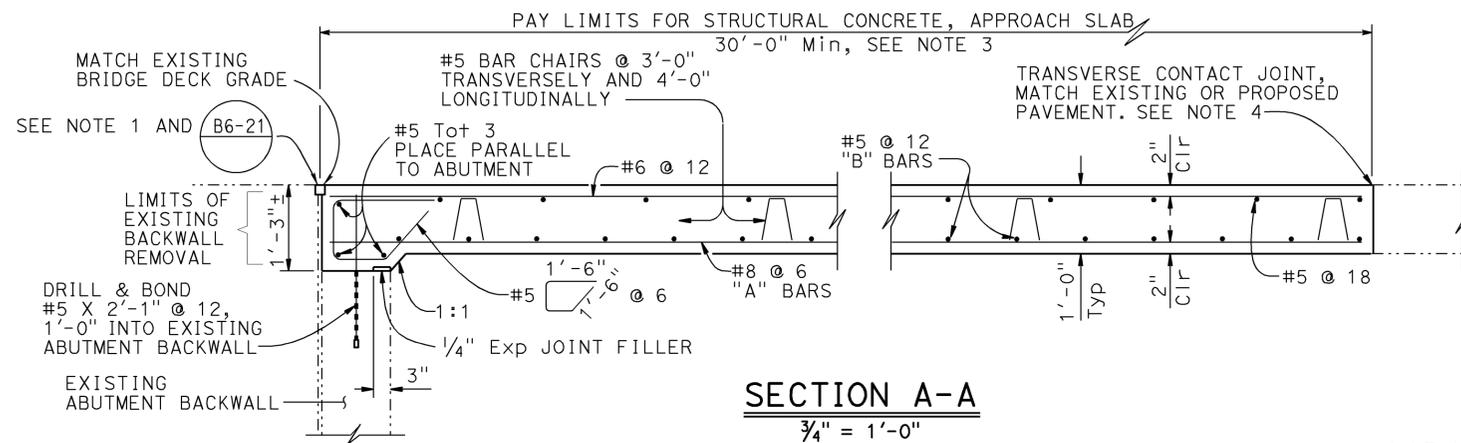
| | | | |
|---|----------------------------------|-----------------------|--------------------------------|
| STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES | BRIDGE NO. Various | ROUTE 134 BRIDGES |
| | | POST MILE Varies | STRUCTURE APPROACH TYPE R(30D) |



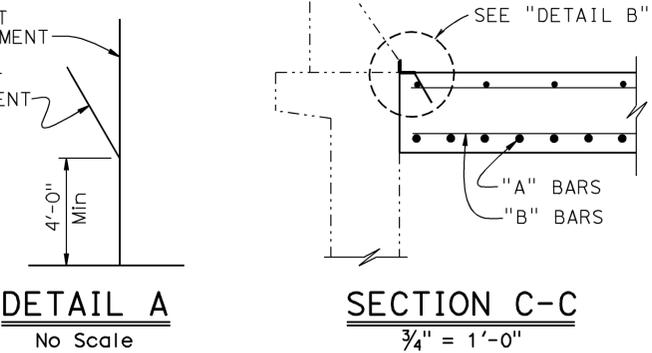
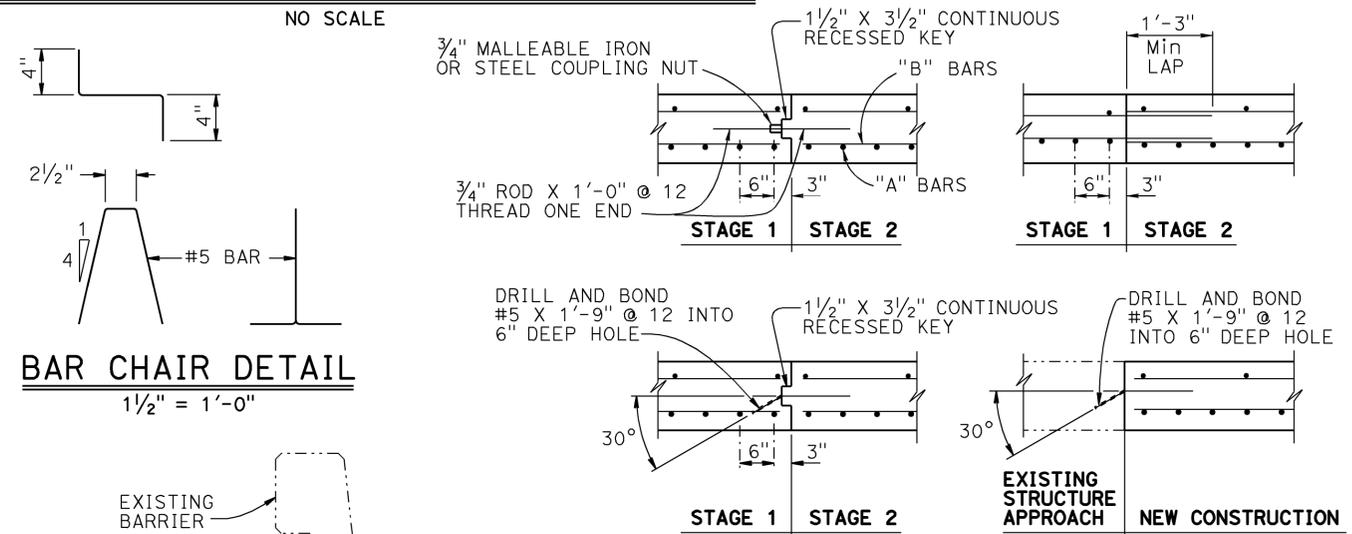
PLAN
1" = 10'



STRUCTURE APPROACH - END STAGGER DETAIL
NO SCALE

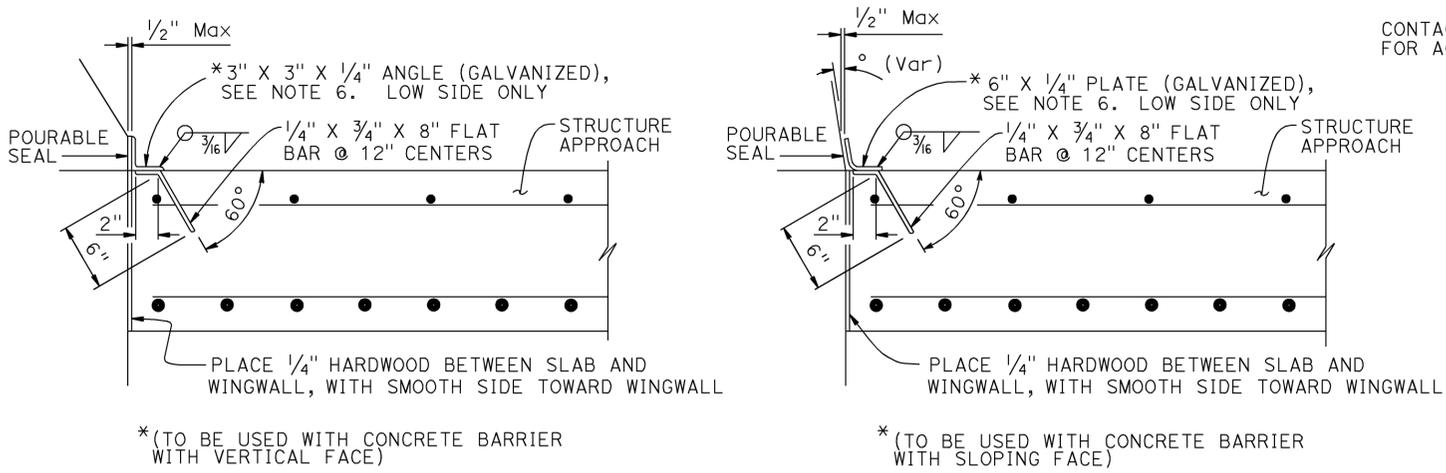


SECTION A-A
3/4" = 1'-0"



| 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 PN |
| 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 |

- NOTES:
- Sealed joint, for MR see Structure Plans. Adjust bar reinforcement to clear a sawcut for sealed joint, when required
 - Longitudinal construction joints, when permitted by Engineer, shall be located on lane lines
 - Transverse contact joint shall be a minimum of 5'-0" from an existing or constructed weakened plane joint
 - For transverse contact joint with new PCC paving, refer to Standard Plan P10
 - Couplers are required for stage construction
 - End angle or plate at beginning of barrier transition, end of wingwall or end of structure approach as applicable



DETAIL B
1/2" = 1'-0"

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.

| STANDARD DRAWING | | | |
|---------------------------|---------------------------|---------------------------|--------------|
| RELEASE DATE 7/ - / 11 | DESIGN BY M. TRAFFALIS | CHECKED E. THORKILDSEN | RELEASED BY |
| FILE NO. xs3-130 | DETAILS BY R. YEE | CHECKED E. THORKILDSEN | |
| | SUBMITTED BY M. HA | DRAWING DATE 8/92 | OFFICE CHIEF |

| | | | |
|---|----------------------------------|-----------------------|---|
| STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES | BRIDGE NO. Various | ROUTE 134 BRIDGES STRUCTURE APPROACH TYPE R(30S) |
| | | POST MILE Varies | |