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| 18-24 | TRAFFIC CONTROL SYSTEM |

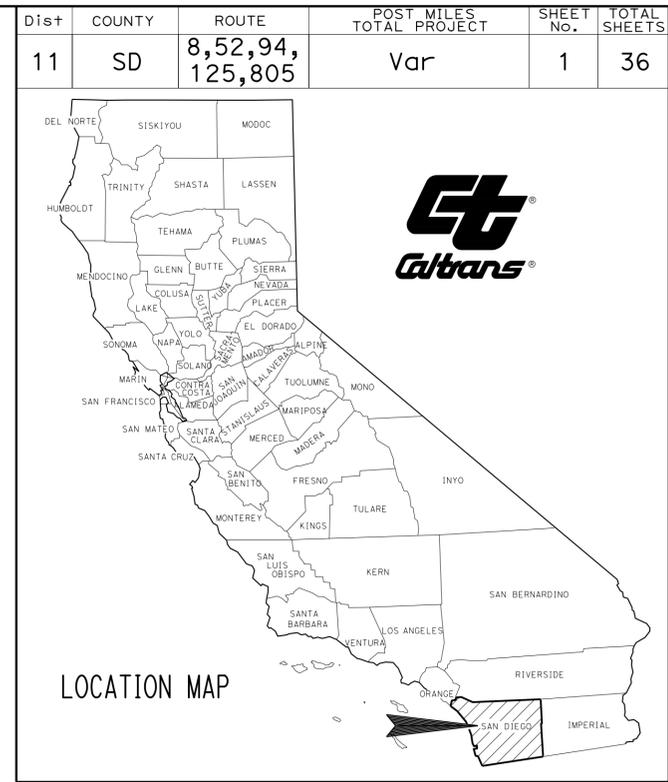
STRUCTURE PLANS

| | |
|-------|--|
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| 34 | JOINT SEAL TABLE AND DETAILS |
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THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

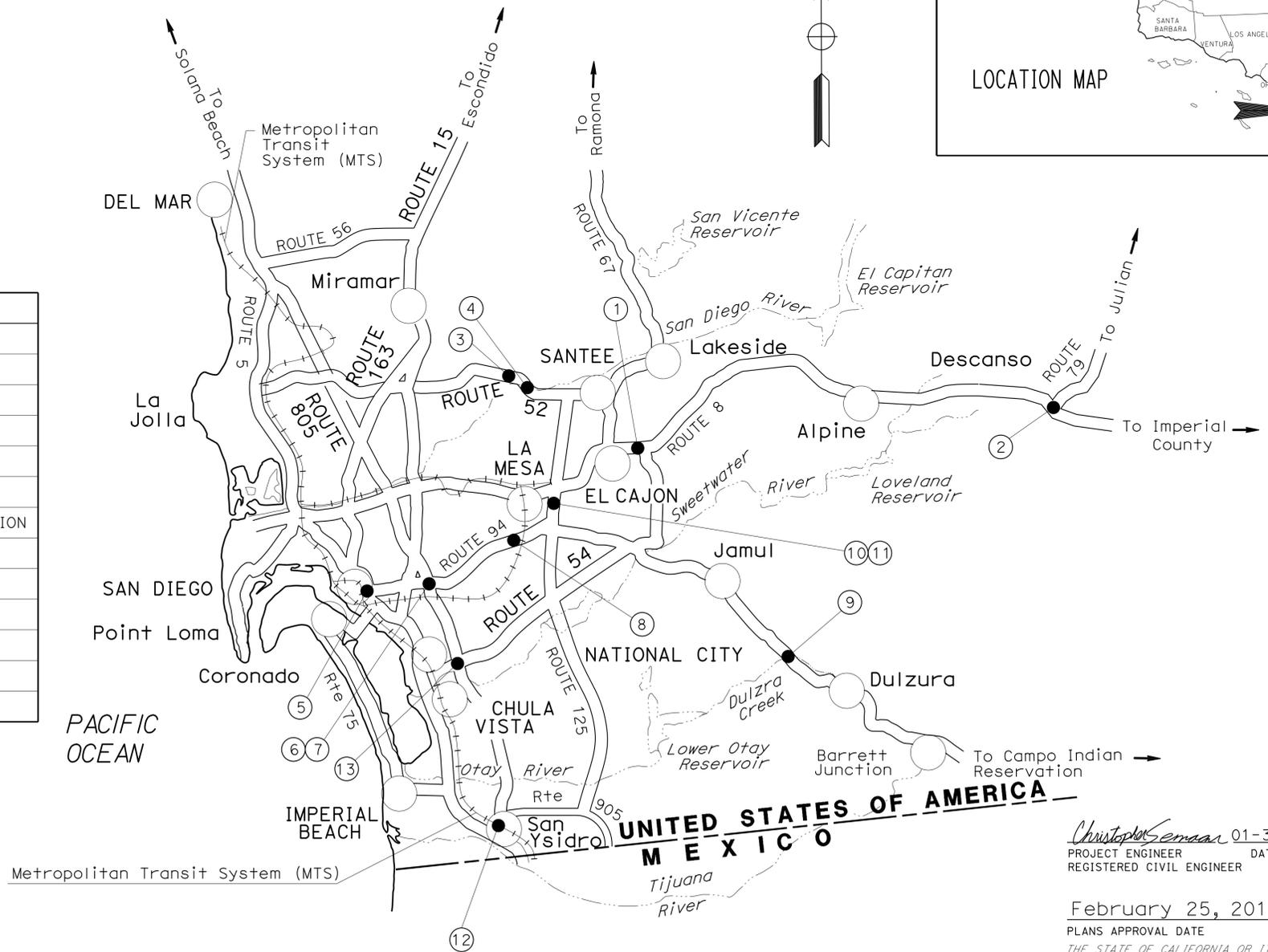
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN SAN DIEGO COUNTY
AT VARIOUS LOCATIONS

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010



LOCATIONS OF CONSTRUCTION

| Loc | Rte | PM | BRIDGE No. | DESCRIPTION |
|-----|-----|--------|------------|--|
| ① | 8 | 16.84 | 57-0378 | FIRST STREET UC |
| ② | 8 | R37.83 | 57-0689L | ROUTE 8/79 SEPARATION |
| ③ | 52 | 12.40 | 57-0982L | SPRING CANYON Br |
| ④ | 52 | 13.80 | 57-0983L | SAN DIEGO RIVER - HOLLINS LAKE Br |
| ⑤ | 94 | 1.42 | 57-0417R | ROUTE 94/5 SEPARATION |
| ⑥ | 94 | 4.06 | 57-0665R | ROUTE 94/805 SEPARATION |
| ⑦ | 94 | 4.12 | 57-0670F | W94-N805 / N805-HOME Ave OFF-RAMP SEPARATION |
| ⑧ | 94 | 8.77 | 57-0305 | WAITE DRIVE UC |
| ⑨ | 94 | 24.66 | 57-0241 | DULZURA CREEK Br |
| ⑩ | 125 | 14.74 | 57-0311L | LEMON AVENUE UC |
| ⑪ | 125 | 14.74 | 57-0311R | LEMON AVENUE UC |
| ⑫ | 805 | 0.50 | 57-0839F | S805/5 SEPARATION |
| ⑬ | 805 | 9.07 | 57-0640F | S805 - E&W 54 CONNECTOR OC |



PROJECT MANAGER
ALBERTO GAYON
 DESIGN ENGINEER
CHRISTOPHER SEMAAN

Christopher Semaan 01-31-13
 PROJECT ENGINEER DATE
 REGISTERED CIVIL ENGINEER
February 25, 2013
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



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

NO SCALE

| | |
|--------------|-------------------|
| CONTRACT No. | 11-2M5204 |
| PROJECT ID | 1112000027 |

LEGEND:

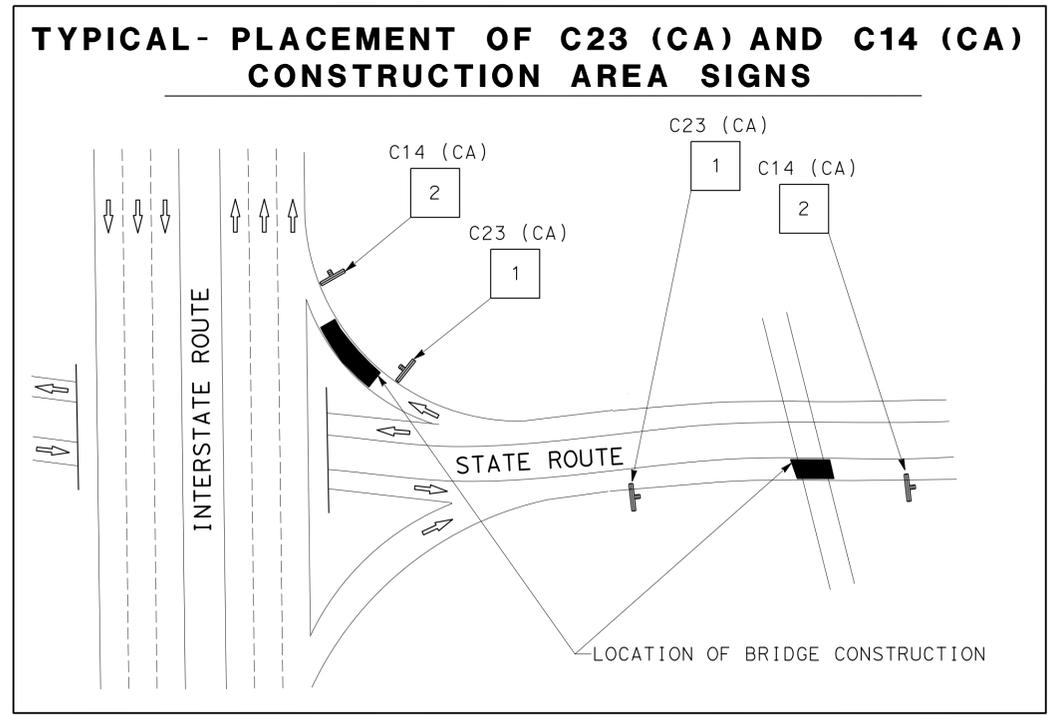
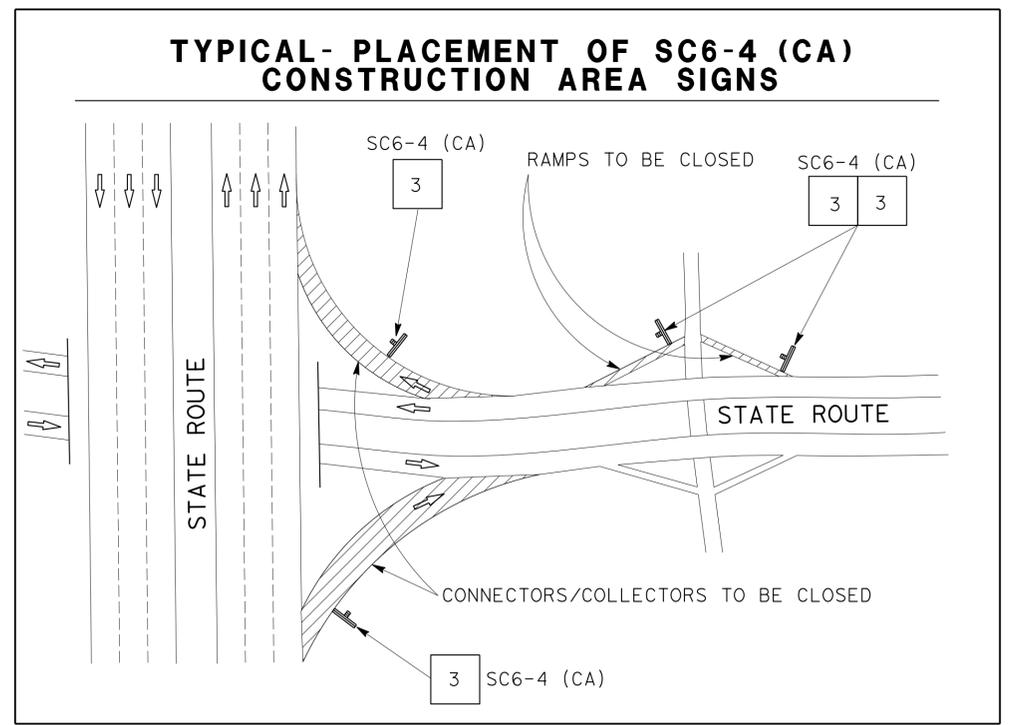
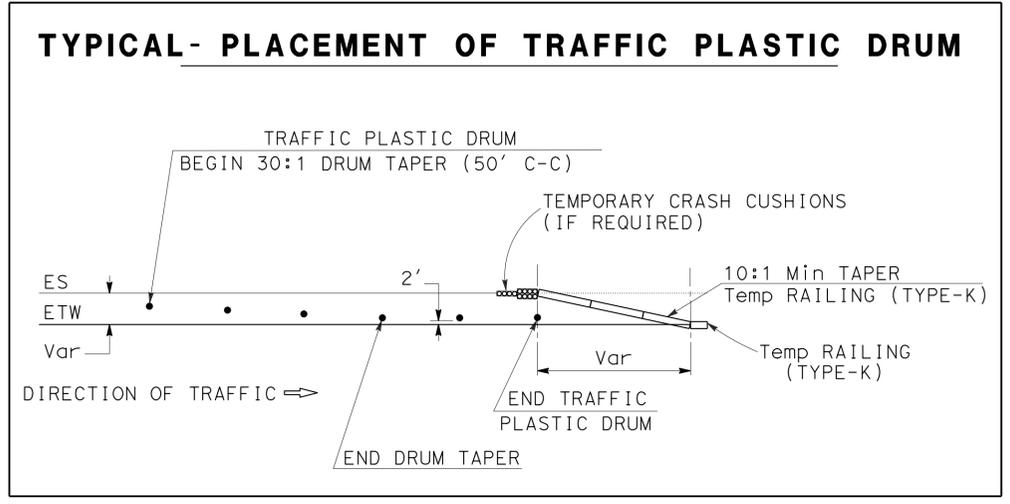
- XX = CONSTRUCTION AREA SIGN
- ⇨ = DIRECTION OF TRAFFIC

NOTES:

- EXACT LOCATION OF CONSTRUCTION AREA SIGNS WILL BE DETERMINED BY THE ENGINEER.
- FEDERAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SIGN CODES ARE SHOWN UNLESS DESIGNATED (CA) INDICATING STANDARD CALIFORNIA SIGN SPECIFICATIONS ARE USED.
- SEE TRAFFIC HANDLING PLANS FOR ADDITIONAL CONSTRUCTION AREA SIGNS.
- EXISTING UTILITY FACILITIES HAVE NOT BEEN SHOWN ON THESE PLAN SHEETS. THE CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING UTILITIES AND ADJUST THE FIELD LOCATION OF SIGN POSTS IN CONSULTATION WITH THE ENGINEER TO AVOID IMPACTING UTILITY FACILITIES.

| CONSTRUCTION AREA SIGNS | | | | |
|-------------------------|------------|-------------------|----------------------|------|
| SIGN No. | CODE | PANEL SIZE INCHES | No. OF POST AND SIZE | EACH |
| 1 | C23 (CA) | 48 X 48 | 1- 4x6 (S) | 15 |
| 2 | C14 (CA) | 48 X 24 | 1- 4x6 (S) | 15 |
| 3 | SC6-4 (CA) | 48 X 60 | PORTABLE | 16 |
| TOTAL | | | | 46 |

(S) DENOTES STATIONARY MOUNTED SIGN



CONSTRUCTION AREA SIGNS
NO SCALE
CS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MAINTENANCE
 Et Caltrans
 FUNCTIONAL SUPERVISOR: ALBERTO GAYON
 CALCULATED/DESIGNED BY: CHRISTOPHER SEMAAN
 CHECKED BY: ALBERTO GAYON
 REVISED BY: DATE REVISED:

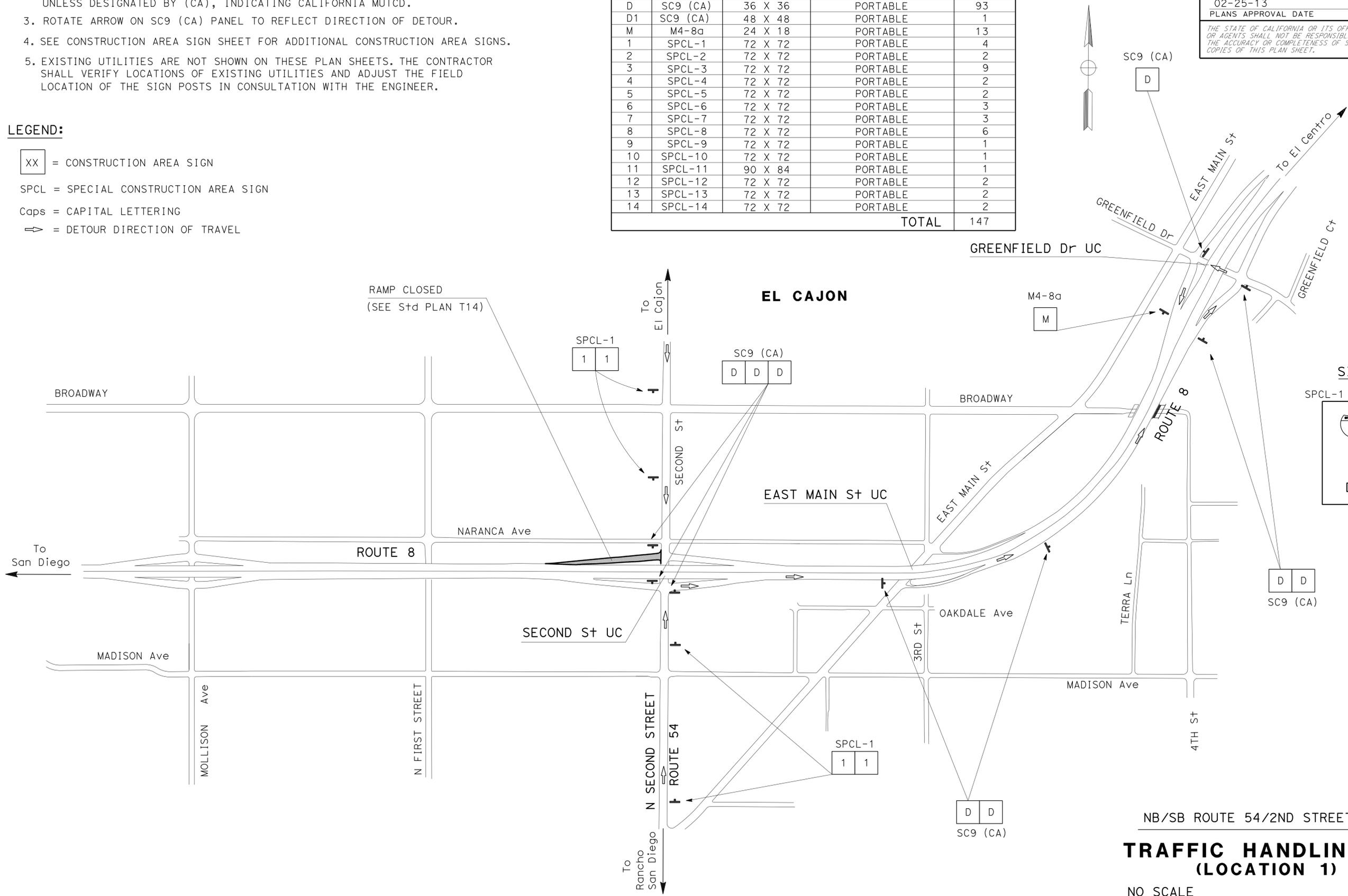
NOTES:

- EXACT LOCATION OF CONSTRUCTION AREA SIGNS WILL BE DETERMINED BY THE ENGINEER.
- FEDERAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SIGN CODES ARE SHOWN UNLESS DESIGNATED BY (CA), INDICATING CALIFORNIA MUTCD.
- ROTATE ARROW ON SC9 (CA) PANEL TO REFLECT DIRECTION OF DETOUR.
- SEE CONSTRUCTION AREA SIGN SHEET FOR ADDITIONAL CONSTRUCTION AREA SIGNS.
- EXISTING UTILITIES ARE NOT SHOWN ON THESE PLAN SHEETS. THE CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING UTILITIES AND ADJUST THE FIELD LOCATION OF THE SIGN POSTS IN CONSULTATION WITH THE ENGINEER.

LEGEND:

- XX = CONSTRUCTION AREA SIGN
 SPCL = SPECIAL CONSTRUCTION AREA SIGN
 Caps = CAPITAL LETTERING
 = DETOUR DIRECTION OF TRAVEL

| CONSTRUCTION AREA SIGNS | | | | |
|-------------------------|----------|----------------------|-----------------------|--------------|
| SIGN No. | TYPE | PANEL SIZE (In)x(In) | No. OF POSTS AND SIZE | No. OF SIGNS |
| D | SC9 (CA) | 36 X 36 | PORTABLE | 93 |
| D1 | SC9 (CA) | 48 X 48 | PORTABLE | 1 |
| M | M4-8a | 24 X 18 | PORTABLE | 13 |
| 1 | SPCL-1 | 72 X 72 | PORTABLE | 4 |
| 2 | SPCL-2 | 72 X 72 | PORTABLE | 2 |
| 3 | SPCL-3 | 72 X 72 | PORTABLE | 9 |
| 4 | SPCL-4 | 72 X 72 | PORTABLE | 2 |
| 5 | SPCL-5 | 72 X 72 | PORTABLE | 2 |
| 6 | SPCL-6 | 72 X 72 | PORTABLE | 3 |
| 7 | SPCL-7 | 72 X 72 | PORTABLE | 3 |
| 8 | SPCL-8 | 72 X 72 | PORTABLE | 6 |
| 9 | SPCL-9 | 72 X 72 | PORTABLE | 1 |
| 10 | SPCL-10 | 72 X 72 | PORTABLE | 1 |
| 11 | SPCL-11 | 90 X 84 | PORTABLE | 1 |
| 12 | SPCL-12 | 72 X 72 | PORTABLE | 2 |
| 13 | SPCL-13 | 72 X 72 | PORTABLE | 2 |
| 14 | SPCL-14 | 72 X 72 | PORTABLE | 2 |
| TOTAL | | | | 147 |



NB/SB ROUTE 54/2ND STREET TO WB 8
TRAFFIC HANDLING PLAN (LOCATION 1)
 NO SCALE **TH-1**

APPROVED FOR TRAFFIC HANDLING WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION MAINTENANCE
 FUNCTIONAL SUPERVISOR ALBERTO GAYON
 CALCULATED/DESIGNED BY CHRISTOPHER SEMAAN
 CHECKED BY ALBERTO GAYON
 REVISED BY DATE REVISOR

LAST REVISION DATE PLOTTED => 25-FEB-2013 02-11-13 TIME PLOTTED => 15:43

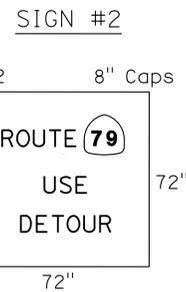
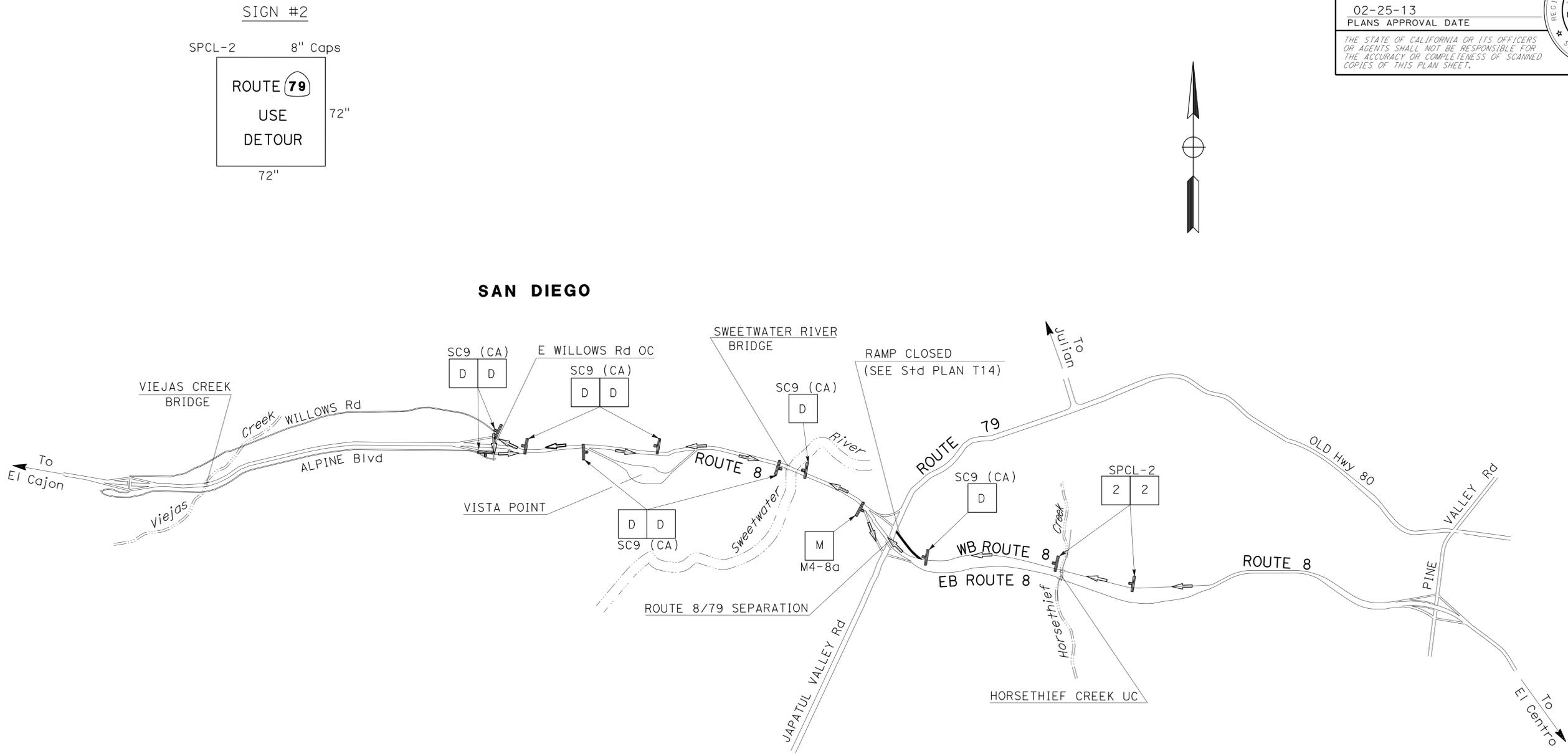
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|---------------------|--------------------------|-----------|--------------|
| 11 | SD | 8, 52, 94, 125, 805 | Var | 4 | 36 |

Christopher Semaan 01-31-13
 REGISTERED CIVIL ENGINEER DATE
 02-25-13
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 CHRISTOPHER J. SEMAAN
 No. C71939
 Exp. 12-31-13
 CIVIL
 STATE OF CALIFORNIA

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

| | |
|--|---------------|
| STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | MAINTENANCE |
| FUNCTIONAL SUPERVISOR | ALBERTO GAYON |
| CALCULATED/DESIGNED BY | CHECKED BY |
| CHRISTOPHER SEMAAN | ALBERTO GAYON |
| REVISED BY | DATE REVISED |



SAN DIEGO

WB 8 TO ROUTE 79

TRAFFIC HANDLING PLAN
(LOCATION 2)

NO SCALE

TH-2

APPROVED FOR TRAFFIC HANDLING WORK ONLY

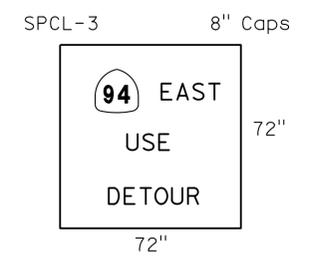
LAST REVISION | DATE PLOTTED => 25-FEB-2013
 02-12-13 | TIME PLOTTED => 15:43

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|---------------------|--------------------------|-----------|--------------|
| 11 | SD | 8, 52, 94, 125, 805 | Var | 5 | 36 |

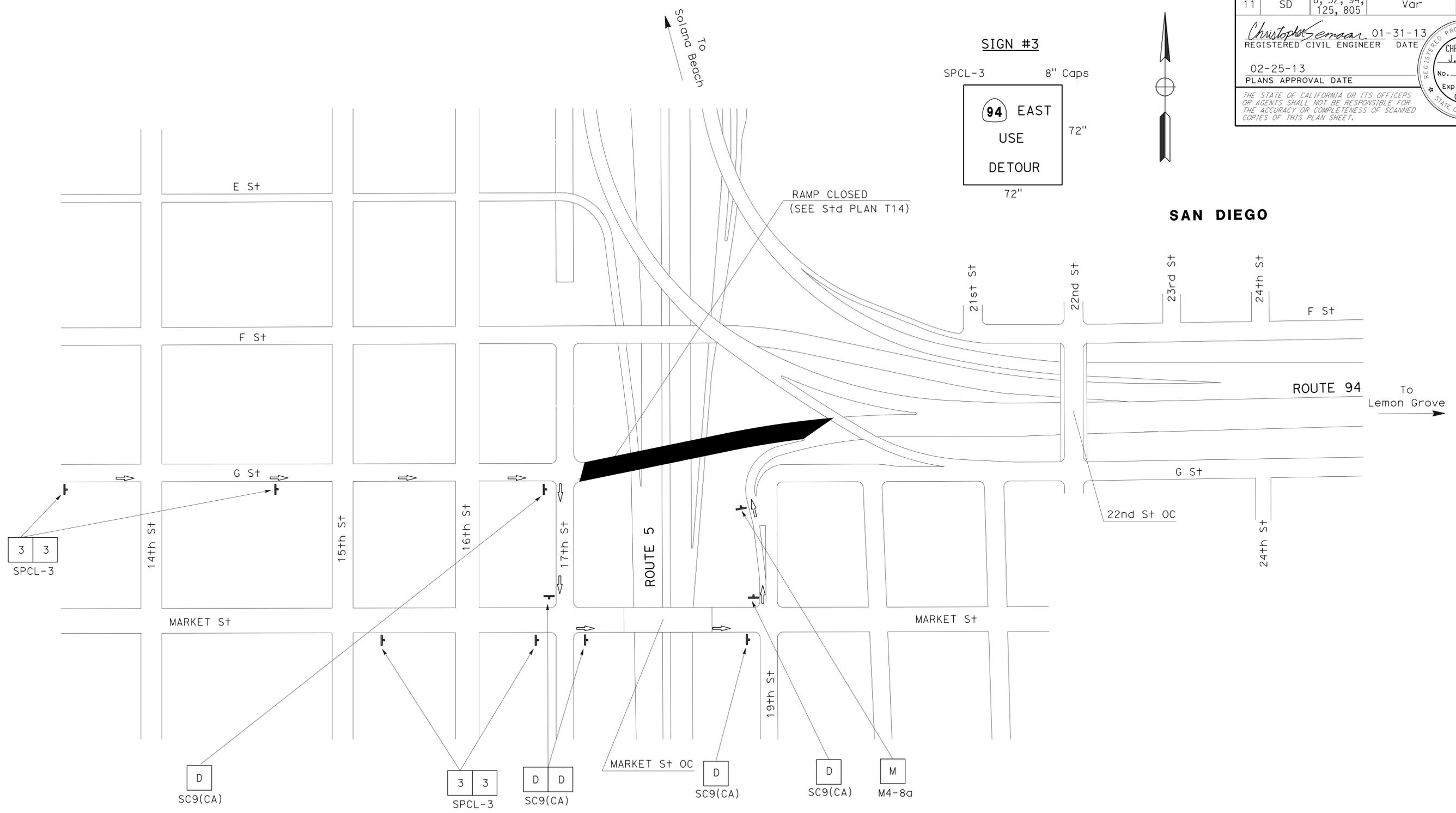
Christopher Semaan 01-31-13
 REGISTERED CIVIL ENGINEER DATE
 02-25-13
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



SIGN #3



SAN DIEGO



| | | | |
|--|-----------------------|--------------------|----------|
| STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | FUNCTIONAL SUPERVISOR | REVISOR | DATE |
| Caltrans MAINTENANCE | ALBERTO GAYON | CHRISTOPHER SEMAAN | 01-31-13 |
| | ALBERTO GAYON | ALBERTO GAYON | 02-25-13 |
| | | | |

APPROVED FOR TRAFFIC HANDLING WORK ONLY

EB ROUTE 94 CLOSURE
TRAFFIC HANDLING PLAN
(LOCATION 5)
 NO SCALE **TH-3**

LAST REVISION DATE PLOTTED => 25-FEB-2013 02-12-13 TIME PLOTTED => 15:43

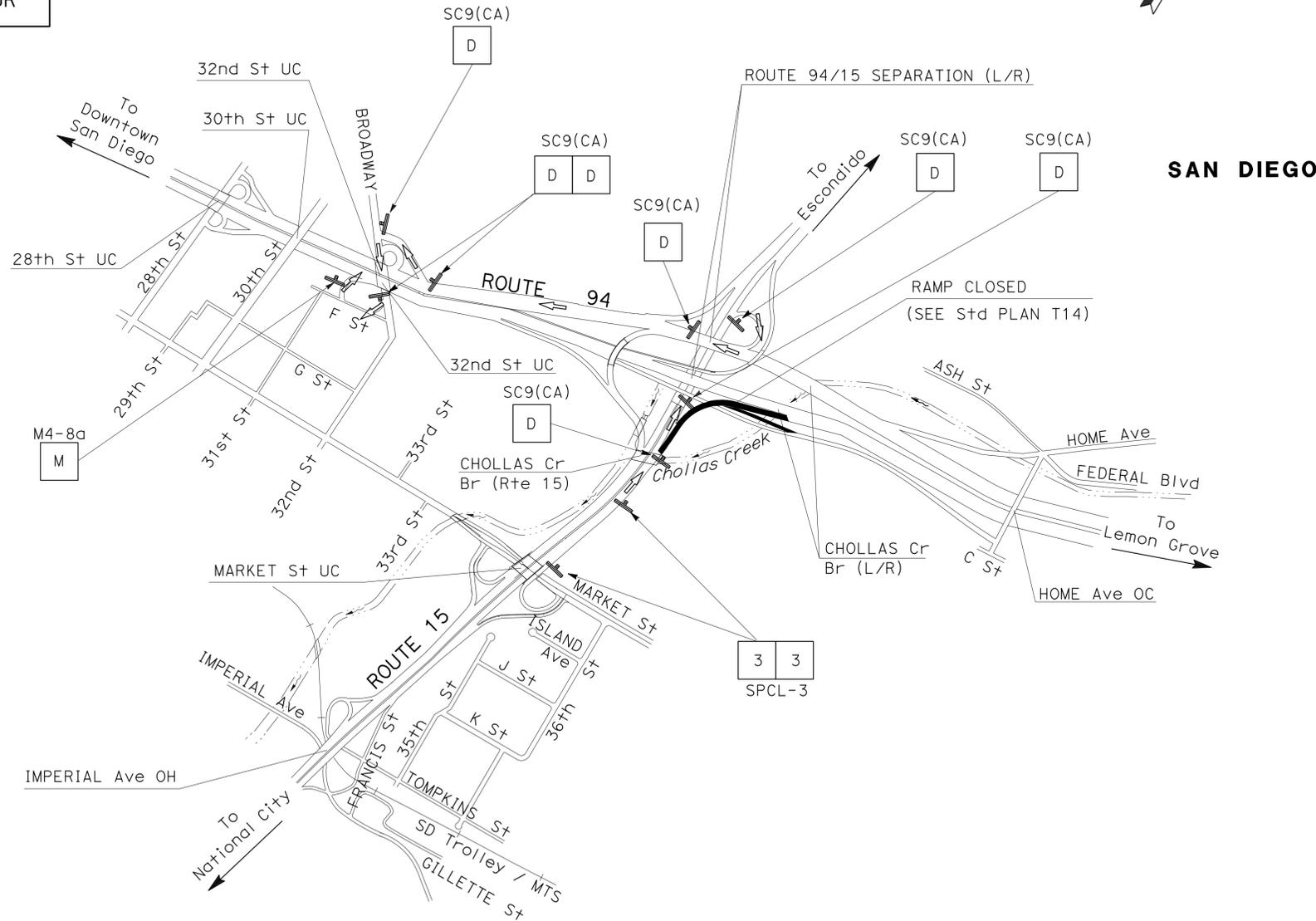
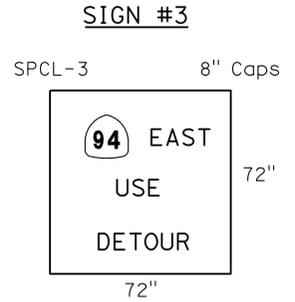
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|---------------------|--------------------------|-----------|--------------|
| 11 | SD | 8, 52, 94, 125, 805 | Var | 6 | 36 |

Christopher Semaan 01-31-13
 REGISTERED CIVIL ENGINEER DATE
 02-25-13
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 CHRISTOPHER J. SEMAAN
 No. C71939
 Exp. 12-31-13
 CIVIL
 STATE OF CALIFORNIA

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

| | |
|--|---------------|
| STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | MAINTENANCE |
| FUNCTIONAL SUPERVISOR | ALBERTO GAYON |
| CALCULATED/DESIGNED BY | CHECKED BY |
| CHRISTOPHER SEMAAN | ALBERTO GAYON |
| REVISED BY | DATE REVISED |



NB 15 TO EB ROUTE 94

TRAFFIC HANDLING PLAN
(LOCATION 6)

NO SCALE **TH-4**

APPROVED FOR TRAFFIC HANDLING WORK ONLY

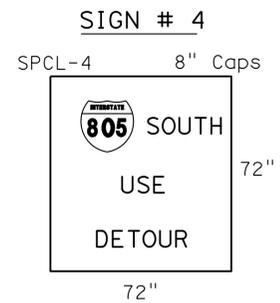
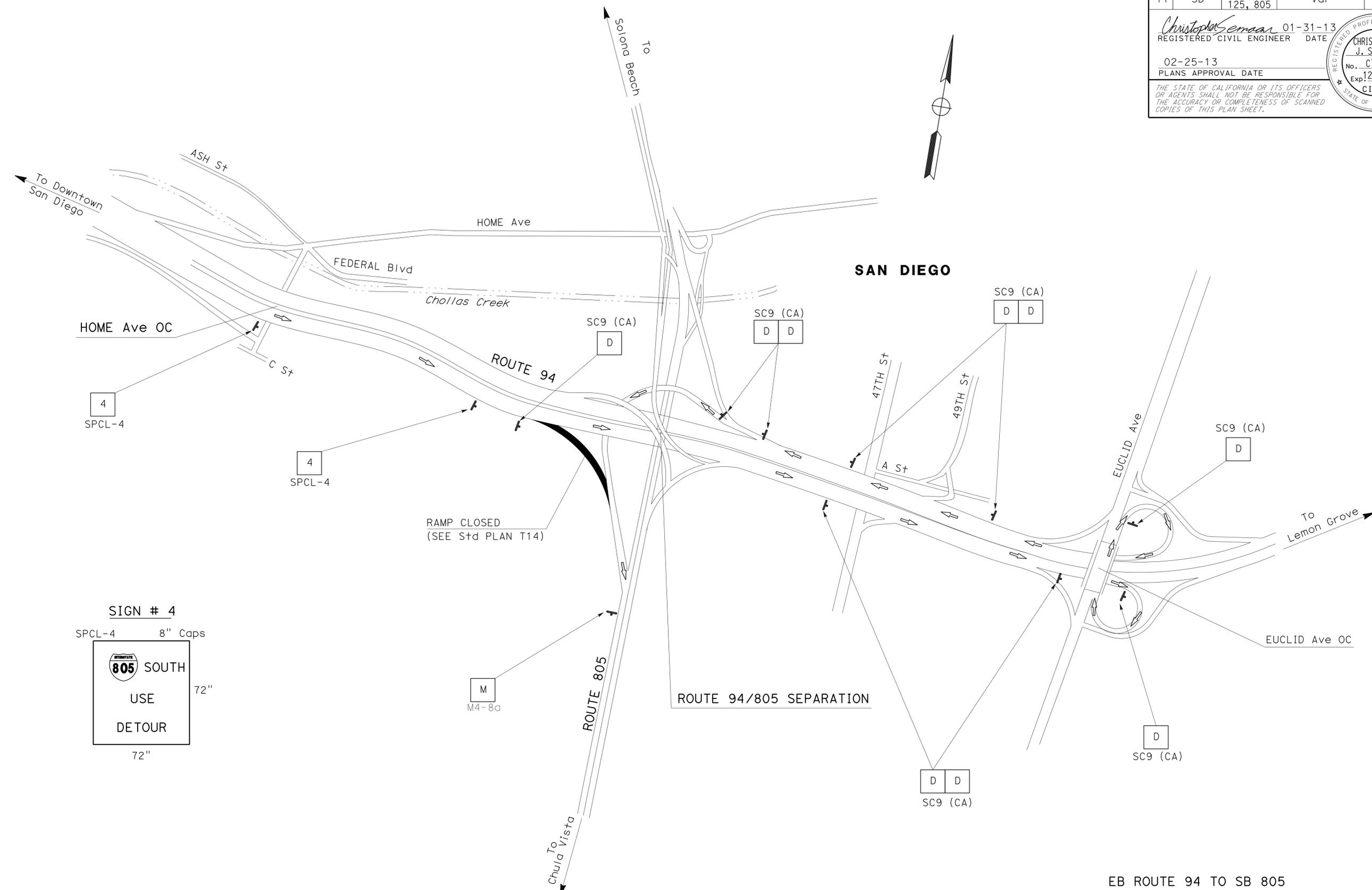
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 02-12-13 | TIME PLOTTED => 15:43

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|---------------------|--------------------------|-----------|--------------|
| 11 | SD | 8, 52, 94, 125, 805 | Var | 7 | 36 |

Christopher Semaan 01-31-13
 REGISTERED CIVIL ENGINEER DATE
 02-25-13
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 CHRISTOPHER J. SEMAAN
 No. C71939
 Exp. 12-31-13
 CIVIL
 STATE OF CALIFORNIA

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RAMP CLOSED
(SEE S+D PLAN T14)

ROUTE 94/805 SEPARATION

EB ROUTE 94 TO SB 805
TRAFFIC HANDLING PLAN
(LOCATION 6)
 NO SCALE **TH-5**

APPROVED FOR TRAFFIC HANDLING WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE
 FUNCTIONAL SUPERVISOR ALBERTO GAYON
 CALCULATED/DESIGNED BY SPCL-4
 CHECKED BY SPCL-4
 CHRISTOPHER SEMAAN
 ALBERTO GAYON
 REVISED BY DATE
 REVISIONS:

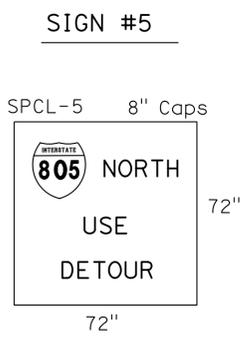
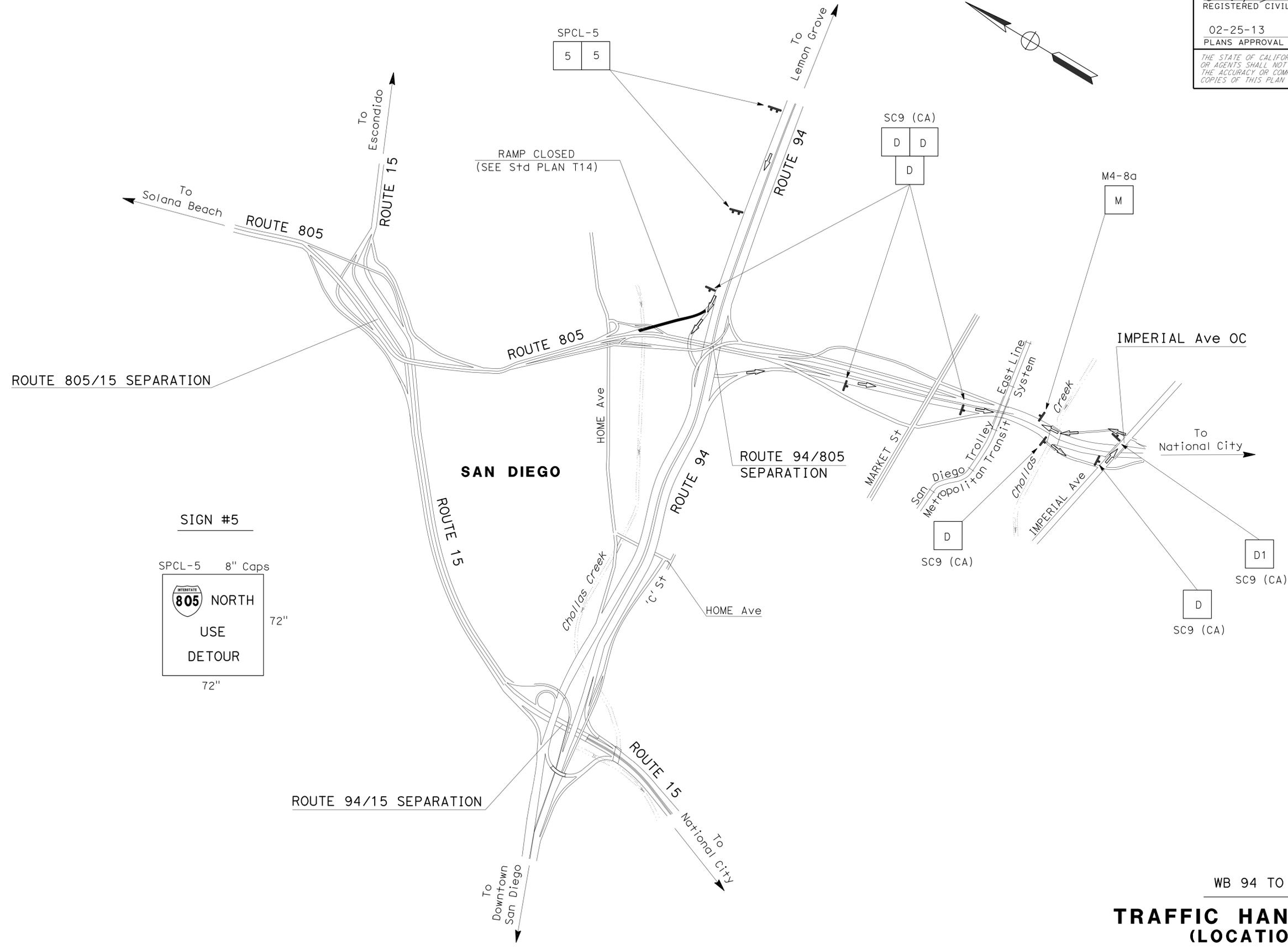
LAST REVISION DATE PLOTTED => 25-FEB-2013
 02-12-13 TIME PLOTTED => 15:43

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|---------------------|--------------------------|-----------|--------------|
| 11 | SD | 8, 52, 94, 125, 805 | Var | 8 | 36 |

Christopher Semaan 01-31-13
 REGISTERED CIVIL ENGINEER DATE
 02-25-13
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 CHRISTOPHER J. SEMAAN
 No. C71939
 Exp. 12-31-13
 CIVIL
 STATE OF CALIFORNIA

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| | | | |
|--|-----------------------|--------------------|------|
| STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | FUNCTIONAL SUPERVISOR | REVISOR | DATE |
| Caltrans | ALBERTO GAYON | CHRISTOPHER SEMAAN | |
| MAINTENANCE | | ALBERTO GAYON | |
| | CHECKED BY | DESIGNED BY | |
| | | | |

APPROVED FOR TRAFFIC HANDLING WORK ONLY

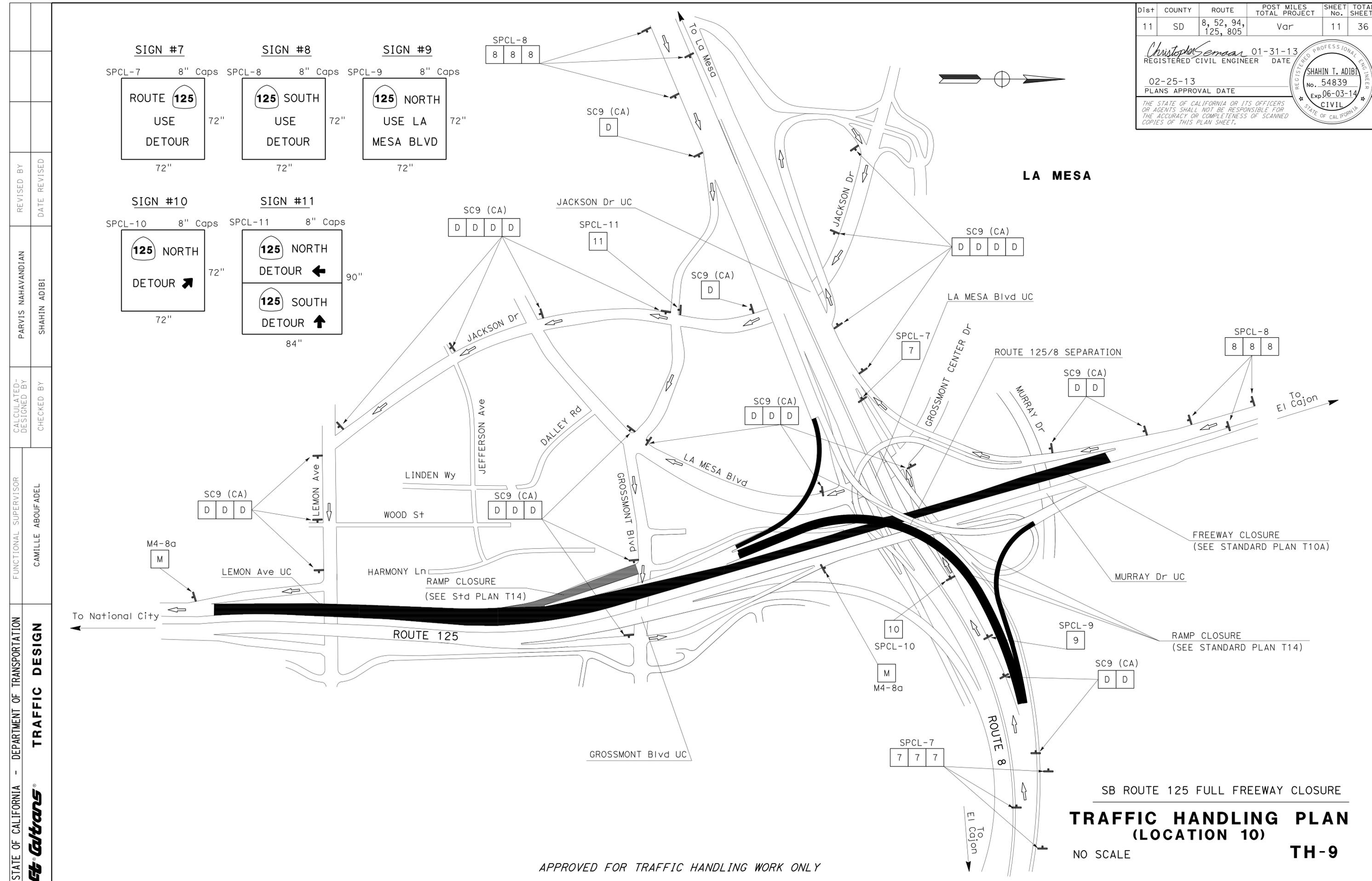
WB 94 TO NB 805
TRAFFIC HANDLING PLAN
(LOCATION 7)
 NO SCALE **TH-6**

LAST REVISION DATE PLOTTED => 25-FEB-2013
 02-12-13 TIME PLOTTED => 15:43

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|------|--------|---------------------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 11 | SD | 8, 52, 94, 125, 805 | Var | 11 | 36 |

Christopher Semaan 01-31-13
 REGISTERED CIVIL ENGINEER DATE
 02-25-13
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER
 SHAHIN T. ADIBI
 No. 54839
 Exp. 06-03-14
 CIVIL
 STATE OF CALIFORNIA



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 TRAFFIC DESIGN
 FUNCTIONAL SUPERVISOR: CAMILLE ABOUFABEL
 CALCULATED/DESIGNED BY: SHAHIN ADIBI
 CHECKED BY: PARVIS NAHAVANDIAN
 REVISED BY: SHAHIN ADIBI
 DATE REVISED:

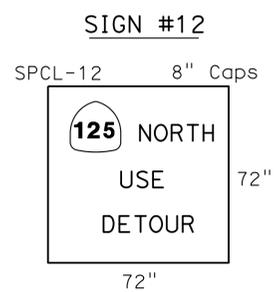
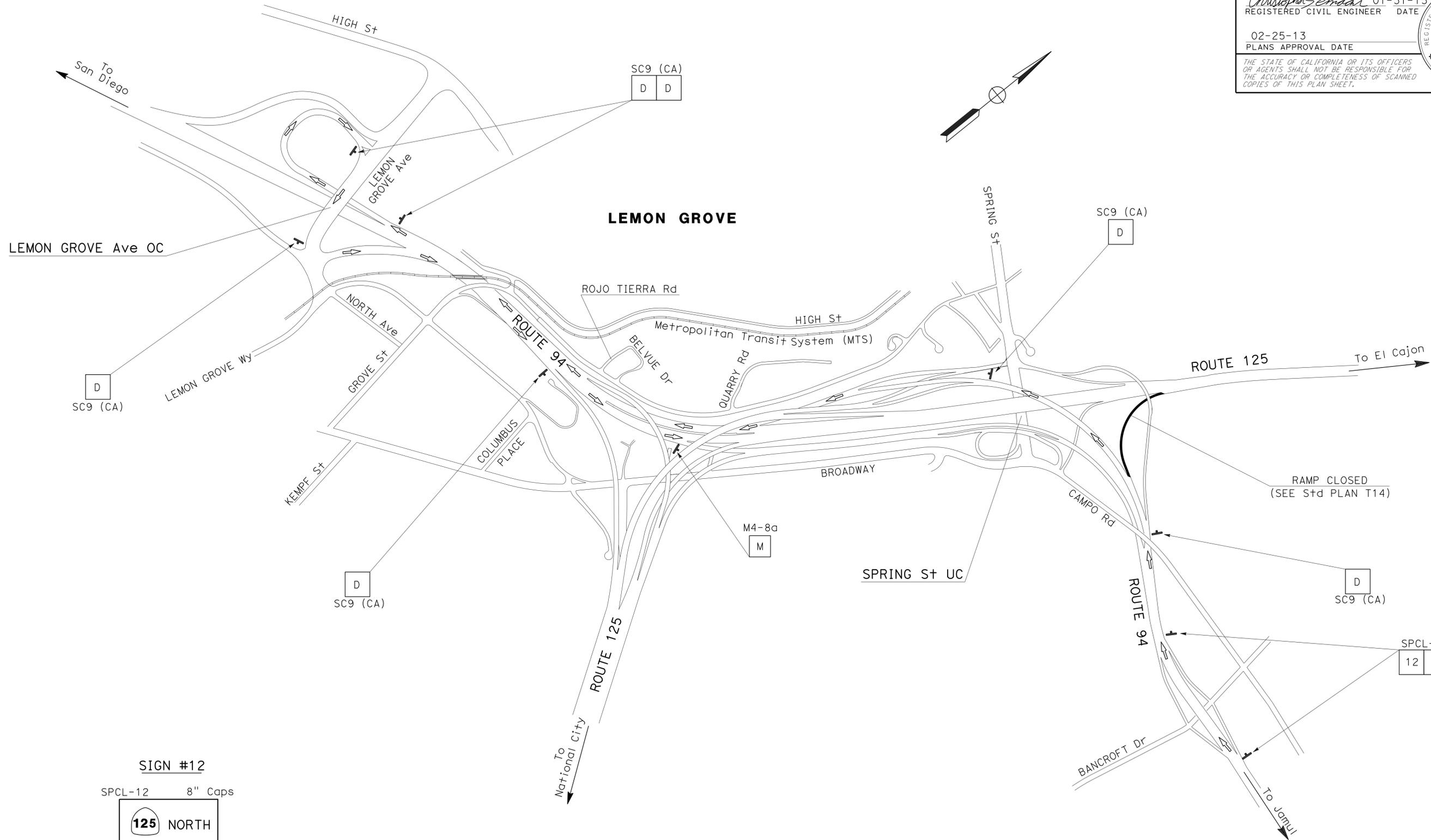
LAST REVISION | DATE PLOTTED => 25-FEB-2013
 02-12-13 | TIME PLOTTED => 15:43

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|---------------------|--------------------------|-----------|--------------|
| 11 | SD | 8, 52, 94, 125, 805 | Var | 12 | 36 |

Christopher Semaan 01-31-13
 REGISTERED CIVIL ENGINEER DATE
 02-25-13
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 CHRISTOPHER J. SEMAAN
 No. C71939
 Exp. 12-31-13
 CIVIL
 STATE OF CALIFORNIA

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WB 94 TO NB 125

TRAFFIC HANDLING PLAN
(LOCATION 11)

NO SCALE

TH-10

APPROVED FOR TRAFFIC HANDLING WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MAINTENANCE

Caltrans

FUNCTIONAL SUPERVISOR: ALBERTO GAYON

CALCULATED/DESIGNED BY: ALBERTO GAYON

REVISOR: CHRISTOPHER SEMAAN

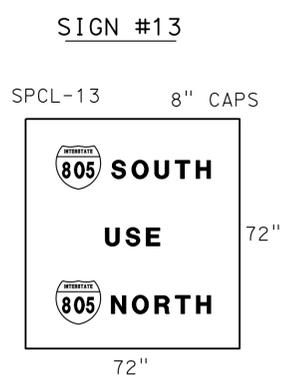
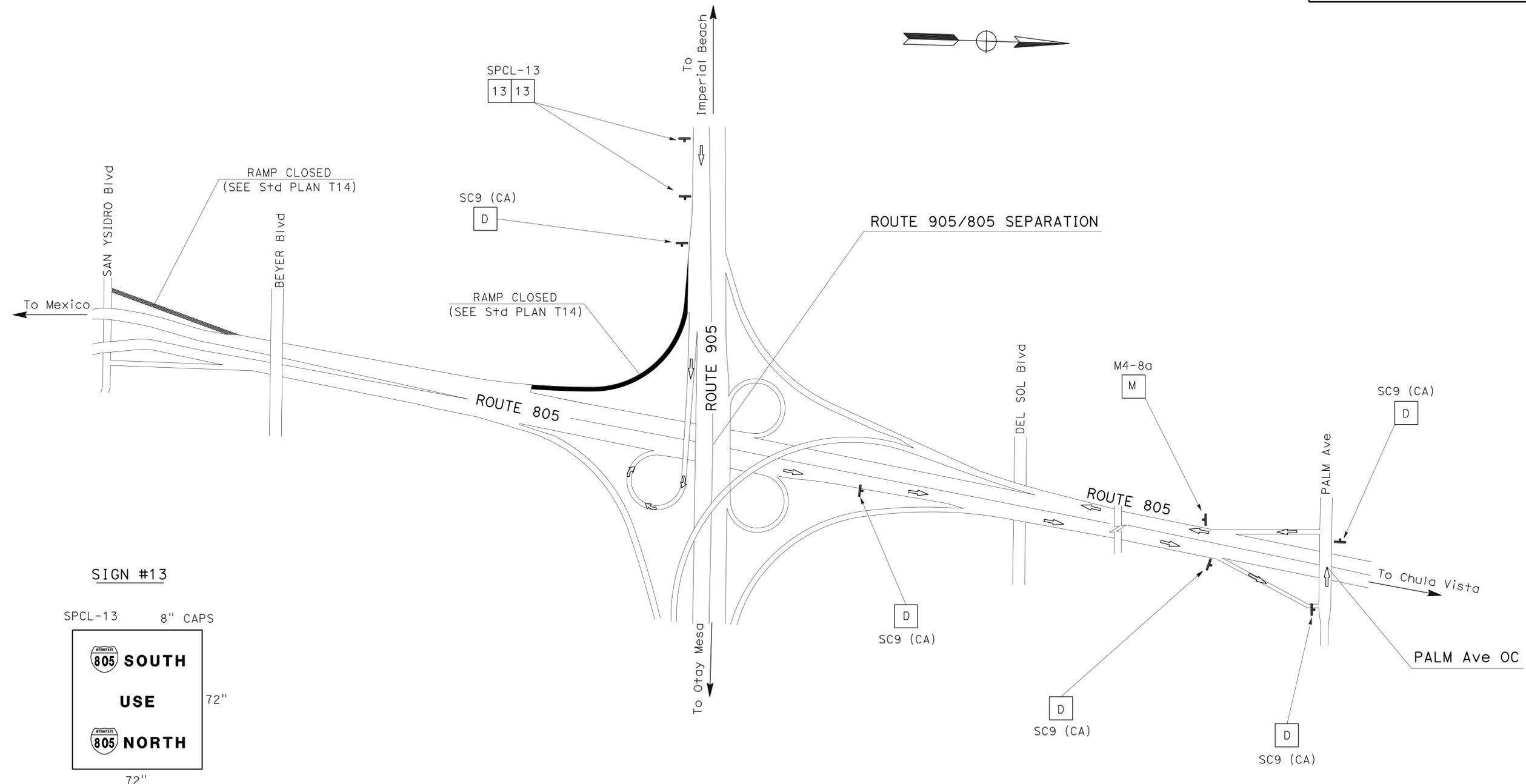
DATE REVISOR: ALBERTO GAYON

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|---------------------|--------------------------|-----------|--------------|
| 11 | SD | 8, 52, 94, 125, 805 | Var | 14 | 36 |

Christopher Semaan 01-31-13
 REGISTERED CIVIL ENGINEER DATE
 02-25-13
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 CHRISTOPHER J. SEMAAN
 No. C71939
 Exp. 12-31-13
 CIVIL
 STATE OF CALIFORNIA

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| | | | | |
|--|-----------------------|--------------------|---------------|------|
| STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | FUNCTIONAL SUPERVISOR | DESIGNED BY | REVISOR | DATE |
| Caltrans | ALBERTO GAYON | CHRISTOPHER SEMAAN | ALBERTO GAYON | |
| MAINTENANCE | CHECKED BY | | | |

APPROVED FOR TRAFFIC HANDLING WORK ONLY

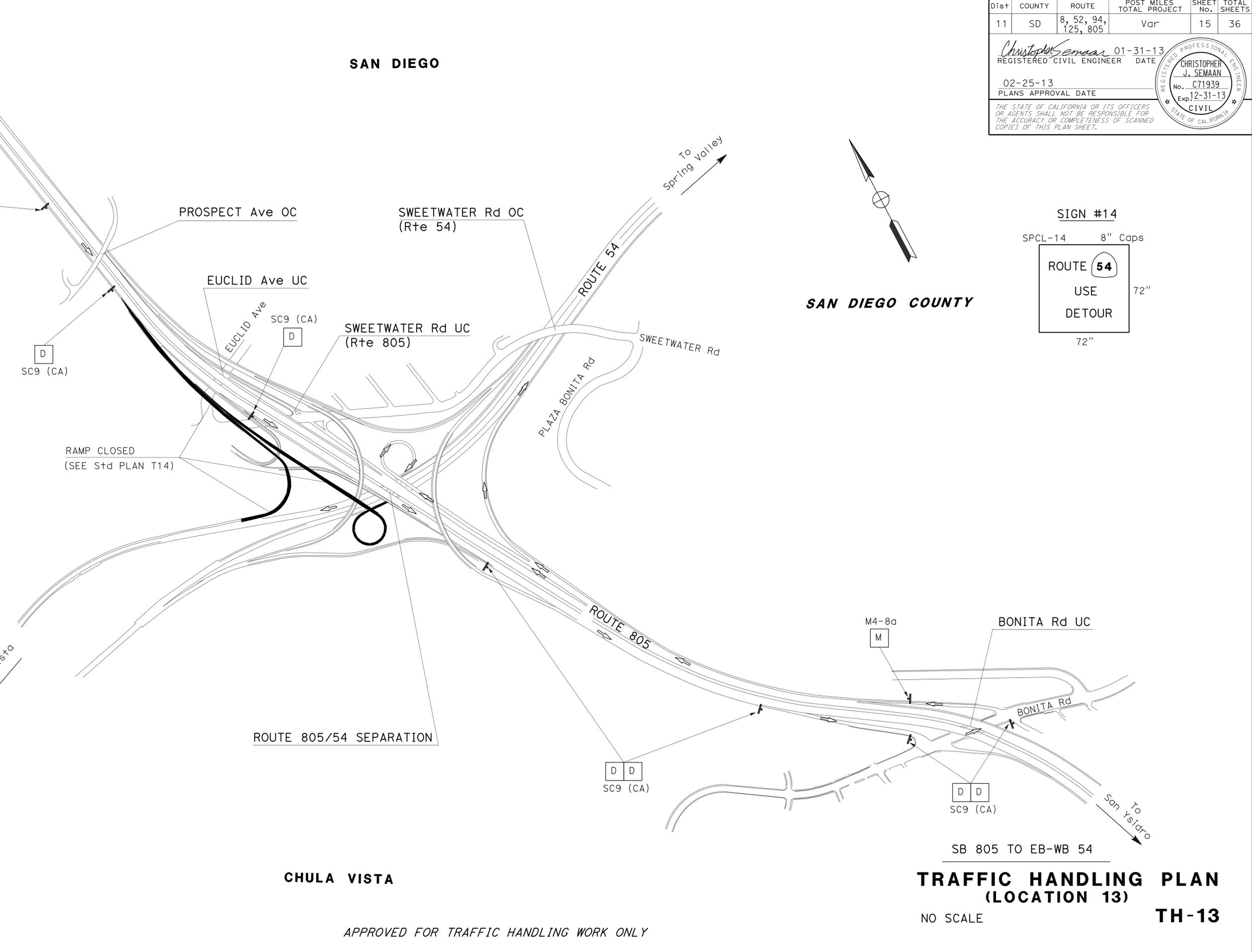
EB 905 TO SB 805

TRAFFIC HANDLING PLAN
(LOCATION 12)

NO SCALE **TH-12**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 MAINTENANCE

FUNCTIONAL SUPERVISOR: ALBERTO GAYON
 CHECKED BY: []
 DESIGNED BY: []
 CALCULATED BY: []
 REVISIONS:
 REVISED BY: CHRISTOPHER SEMAAN
 DATE: []
 REVISED BY: ALBERTO GAYON
 DATE: []

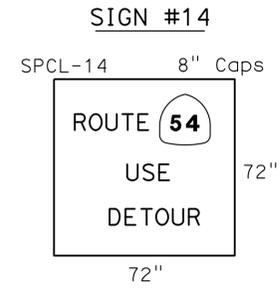


| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|---------------------|--------------------------|-----------|--------------|
| 11 | SD | 8, 52, 94, 125, 805 | Var | 15 | 36 |

Christopher Semaan 01-31-13
 REGISTERED CIVIL ENGINEER DATE
 02-25-13
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 CHRISTOPHER J. SEMAAN
 No. C71939
 Exp. 12-31-13
 CIVIL
 STATE OF CALIFORNIA

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



APPROVED FOR TRAFFIC HANDLING WORK ONLY

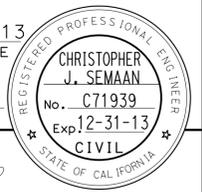
TRAFFIC HANDLING PLAN
(LOCATION 13)
 NO SCALE
TH-13

LAST REVISION DATE PLOTTED => 25-FEB-2013 02-12-13 TIME PLOTTED => 15:43

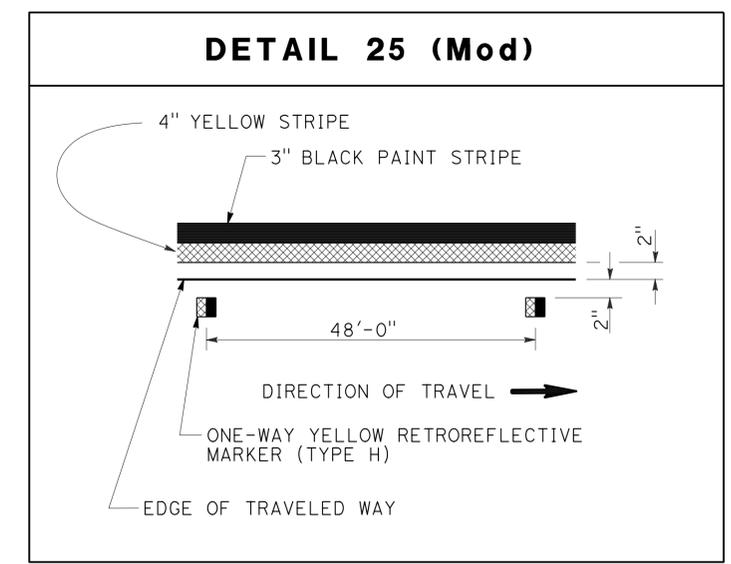
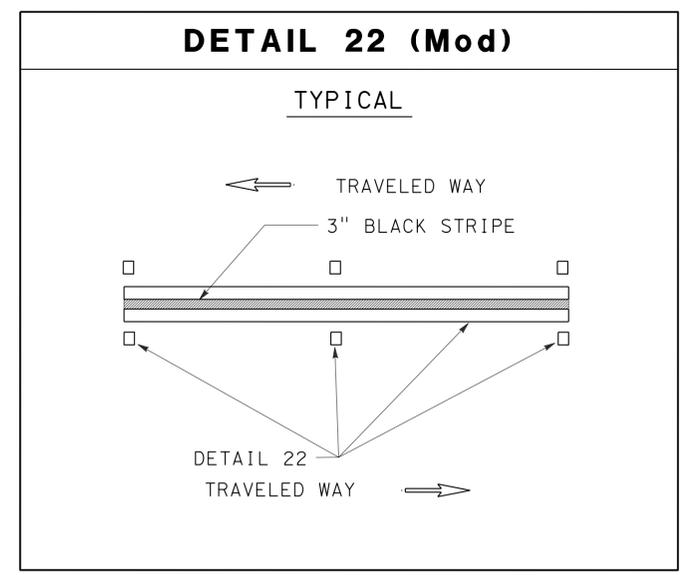
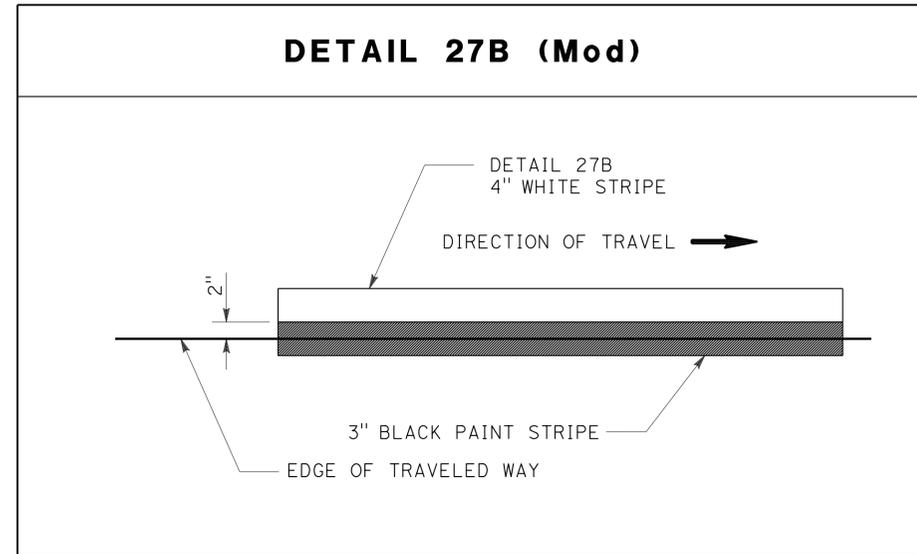
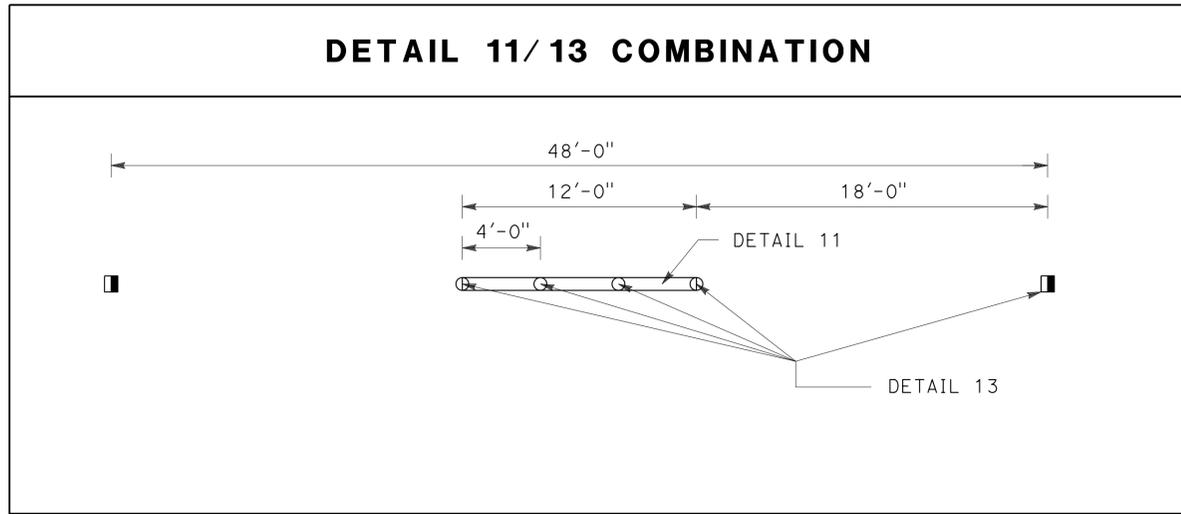
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|---------------------|--------------------------|-----------|--------------|
| 11 | SD | 8, 52, 94, 125, 805 | Var | 16 | 36 |

| | |
|---------------------------|----------|
| <i>Christopher Semaan</i> | 01-31-13 |
| REGISTERED CIVIL ENGINEER | DATE |
| 02-25-13 | |
| PLANS APPROVAL DATE | |

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



| | |
|--|---------------|
| STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | MAINTENANCE |
| FUNCTIONAL SUPERVISOR | ALBERTO GAYON |
| CALCULATED/DESIGNED BY | CHECKED BY |
| CHRISTOPHER SEMAAN | ALBERTO GAYON |
| REVISOR | DATE |
| REVISOR | DATE |



PAVEMENT DELINEATION DETAILS

NO SCALE

PDD-1



| | | | | | |
|------|--------|---------------------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 11 | SD | 8, 52, 94, 125, 805 | Var | 17 | 36 |

Christopher Semaan 01-31-13
 REGISTERED CIVIL ENGINEER DATE

02-25-13
 PLANS APPROVAL DATE

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

PAVEMENT DELINEATION QUANTITIES

| LOCATION | Rte | Dir | PM | DETAIL No. | REMOVAL SUMMARY | | | | PAVEMENT MARKER SUMMARY | | | | TRAFFIC STRIPE SUMMARY | | | | REMARKS | |
|---|-----|-------|-------|--------------------------------------|---|------------------------------------|--|---------------------------------|-------------------------|--------|----------------------|--------|------------------------|--------------|--|--------------|------------|----------|
| | | | | | REMOVE YELLOW PAINTED TRAFFIC STRIPE (Haz WASTE) (LF) | REMOVE PAINTED TRAFFIC STRIPE (LF) | REMOVE THERMOPLASTIC TRAFFIC STRIPE (LF) | REMOVE PAVEMENT MARKER (EA) (N) | NON-REFLECTIVE (EA) | | RETROREFLECTIVE (EA) | | PAINT 1-COAT (LF) | | THERMOPLASTIC (LF) (ENHANCED WET NIGHT VISIBILITY) | | | |
| | | | | | | | | | TYPE A | TYPE D | TYPE G | TYPE H | 3" SOLID | 4" BROKEN | 4" SOLID | 8" SOLID | | |
| | | | | | | | | | WHITE | YELLOW | CLEAR | YELLOW | BLACK | 36-12 | | | | |
| LOCATION 3 SPRING CANYON Br No. 57-0982L | 52 | WB | 12.40 | 11/13 25 (Mod) 27B (Mod) | 780 | 624 | | 163 | 130 | | 33 | | 17 | 780 | 1,560 | 780 | | L=780' |
| LOCATION 4 SAN DIEGO RIVER - HOLLINS LAKE Br. No. 57-0983L | 52 | WB | 13.80 | 11/13 25 (Mod) 27B (Mod) | 2,075 | 830 | | 217 | 173 | | 44 | | 44 | 2,075 | 2,075 | 2,075 | | L=2,075' |
| LOCATION 5 ROUTE 94/5 SEPARATION Br No. 57-0417R | 94 | EB | 1.42 | 11/13 25 (Mod) 27B (Mod) | 296 | 237 | | 143 | 130 | | 13 | | 7 | 296 | 592 | 296 | | L=296' |
| LOCATION 9 DULZURA CREEK Br No. 57-0241 | 94 | EB/WB | 24.66 | 22 (Mod) 27B (Mod) | 360 | | | 15 | | 15 | | | | 180 | | 360 | | L=180' |
| LOCATION 13 S805 - E&W 54 CONNECTOR OC Br No. 57-0640F | 805 | SB | 9.07 | 11/13 25 (Mod) 27B (Mod) 36 | 670 | 670 | | 70 | 56 | | 14 | | 28 | 670 | 670 | 670 | | L=670' |
| TOTAL | | | | | 4,181 | 6,542 | 820 | | 489 | | 250 | | | 8,182 | 4,897 | 8,362 | 820 | |

ALL PAVEMENT DELINEATION TO BE REPLACED IN-KIND
 (N) = NOT A SEPARATE PAY ITEM. FOR INFORMATION ONLY

PAVEMENT DELINEATION QUANTITIES PDQ-1



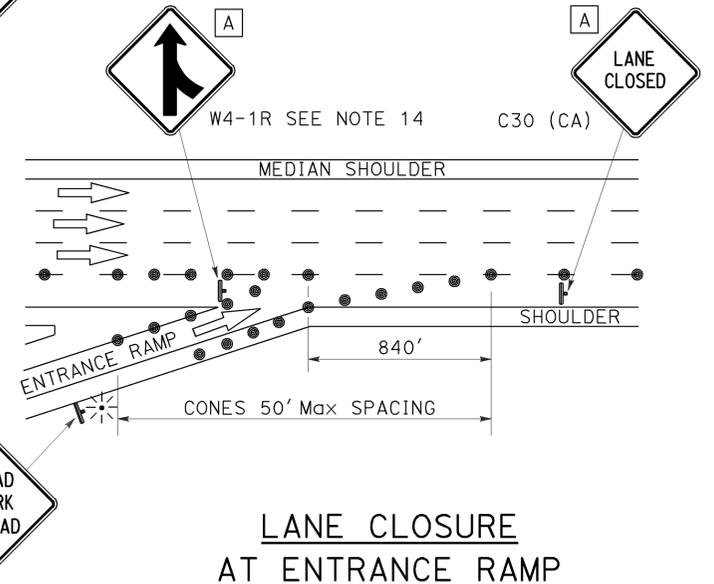
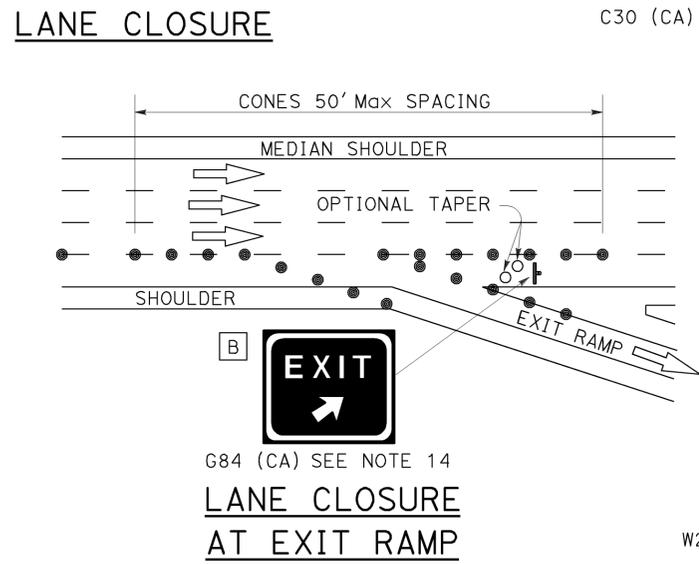
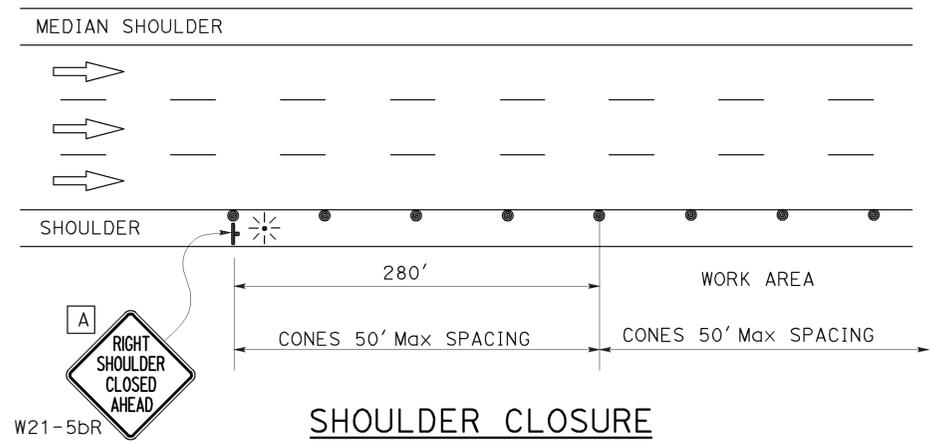
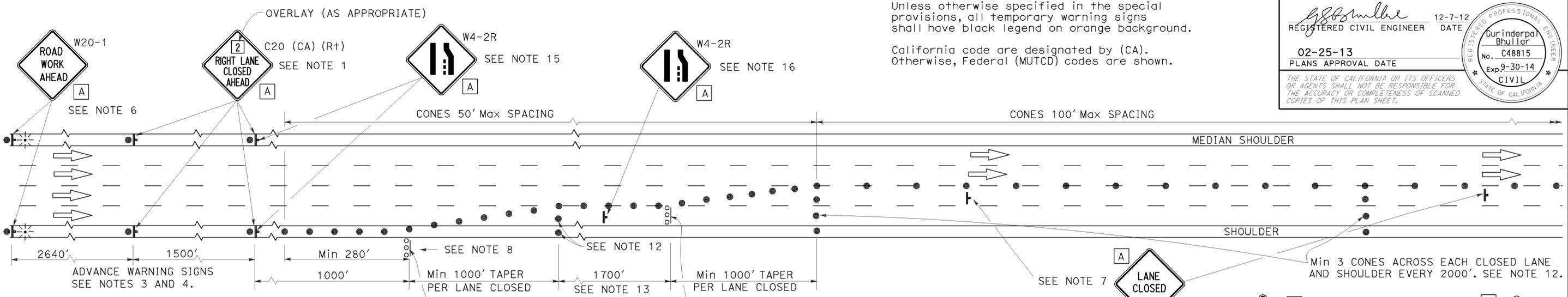
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|---------------------|--------------------------|-----------|--------------|
| 11 | SD | 8,52,94, 125,805 | Var | 18 | 36 |

| | | |
|---------------------------|---------------------|------|
| REGISTERED CIVIL ENGINEER | 12-7-12 | DATE |
| 02-25-13 | PLANS APPROVAL DATE | |

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

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

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



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

SIGN PANEL SIZE (Min)

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

LEGEND

| | |
|---|-------------------------------|
| ● | TRAFFIC CONE |
| ○ | TRAFFIC CONE (OPTIONAL TAPER) |
| ↑ | TEMPORARY SIGN |
| ⚡ | FLASHING ARROW SIGN (FAS) |
| ⊞ | FAS SUPPORT OR TRAILER |
| ⚡ | PORTABLE FLASHING BEACON |

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

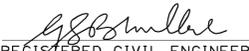
NO SCALE

TCS-1

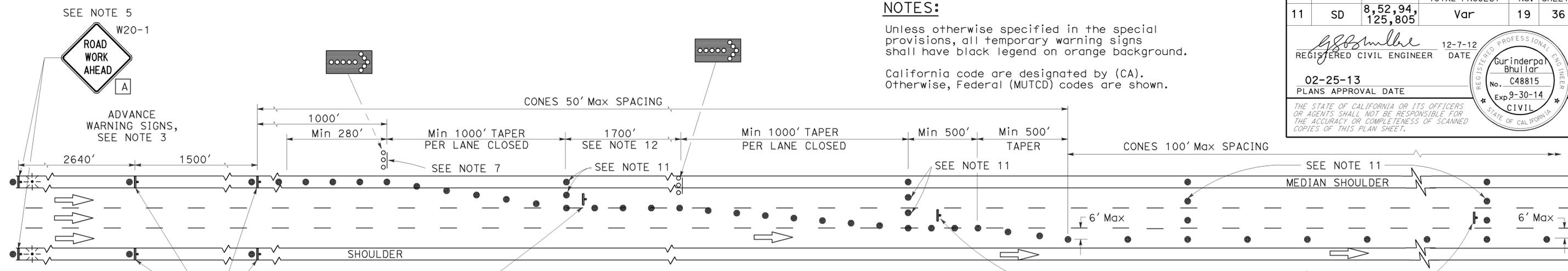
REVISOR: [] DATE: []
 CALCULATED/DESIGNED BY: [] CHECKED BY: []
 FUNCTIONAL SUPERVISOR: []
 DEPARTMENT OF TRANSPORTATION
 STATE OF CALIFORNIA - **Caltrans**

LAST REVISION: [] DATE PLOTTED => 10-DE-2012 TIME PLOTTED => 09:45

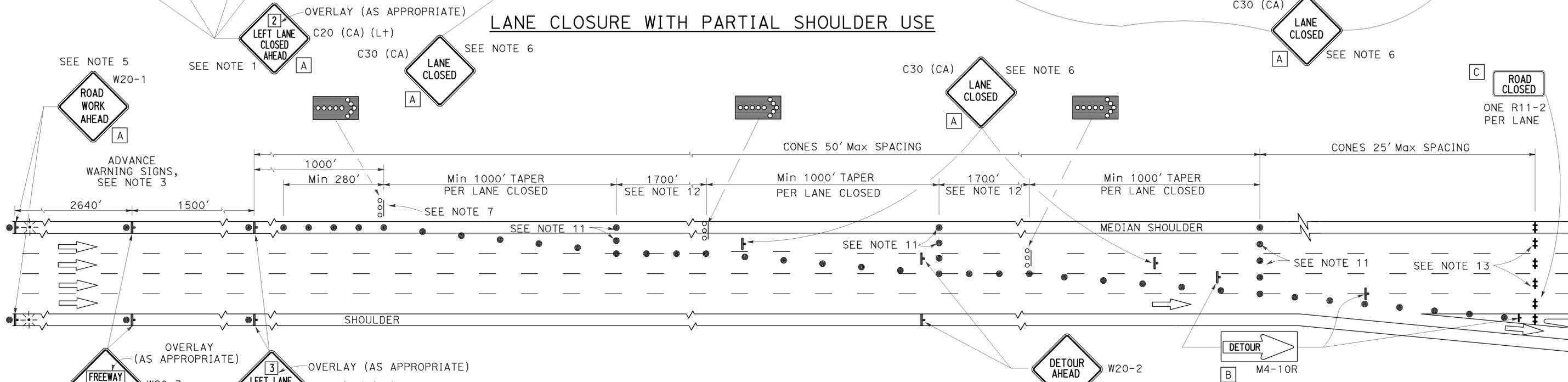
| | | | | | |
|------|--------|---------------------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 11 | SD | 8,52,94, 125,805 | Var | 19 | 36 |

| | | |
|--|--|---|
|  REGISTERED CIVIL ENGINEER 12-7-12 DATE | |  |
| 02-25-13 PLANS APPROVAL DATE | | |
| <small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small> | | |

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



LANE CLOSURE WITH PARTIAL SHOULDER USE



COMPLETE CLOSURE

NOTES:

- Lane closures on the right side using partial median shoulder as a traffic lane shall conform to the details for inside lane closure except that C20 (CA) (Rt) signs shall be used.
- At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
- Each advance warning sign on each side of the roadway shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" X 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
- A C14 (CA) "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within a larger project's limits.
- If the W20-1 sign would follow within 2000' of a stationary W20-1 or C11 (CA) "ROAD WORK NEXT ___ MILES", use a C20 (CA) sign for the first advance warning sign.
- Place a C30 (CA) sign every 2000' throughout length of lane closure.
- One flashing arrow sign for each lane closed. The first flashing arrow sign shall be Type I. All others may be either Type I or Type II.
- A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at the top of crest vertical curve or on a horizontal curve.
- All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
- Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000' as shown on the "Lane Closure With Partial Shoulder Use" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
- Unless otherwise specified in the special provisions, the 1700' tangent shown along lane lines shall be used between the 1000' tapers required for each closed traffic lane.
- A minimum of Two Type II barricades shall be placed across each closed lane and shoulder at the location shown and every 2000' within the complete closure area. Within the complete closure area, the transverse alignment of the barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
- When specified in the special provisions, a W20-2 "DETOUR AHEAD" sign is to be used in place of the W20-3 "FREEWAY CLOSED AHEAD" sign.

LEGEND

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

SIGN PANEL SIZE (Min)

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

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

NO SCALE

TCS-2

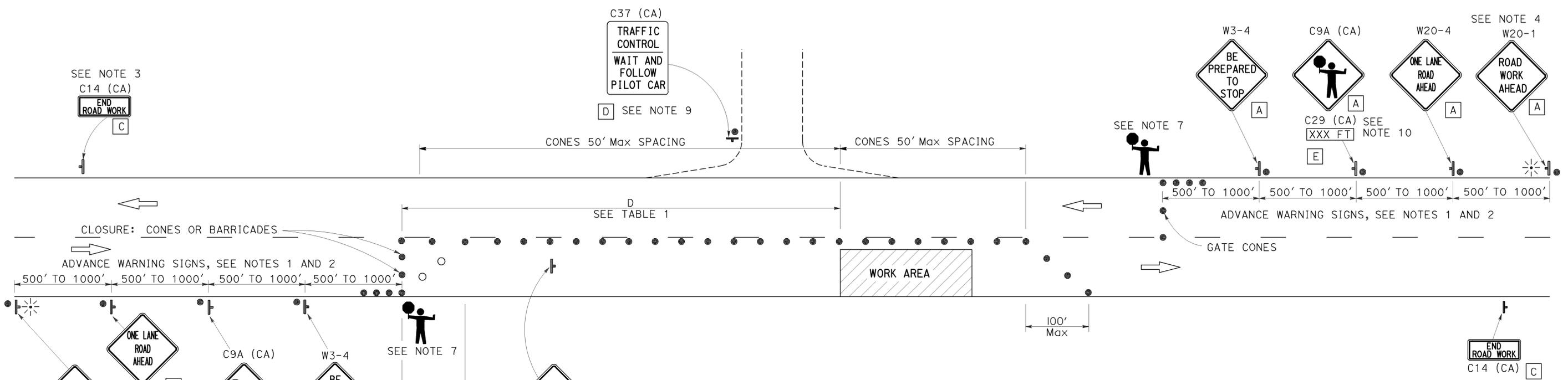
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Et Caltrans
 REVISIONS: 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

NOTES:

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

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

TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL



SIGN PANEL SIZE (MINIMUM)

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

LEGEND

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

TABLE 1

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

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

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

NO SCALE

TCS-3

REVISOR BY
DATE

CALCULATED/DESIGNED BY
CHECKED BY

FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Et-Trans

TYPICAL RAMP CLOSURES

SIGN PANEL SIZE (Min)

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

| | | | | | |
|------|--------|---------------------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 11 | SD | 8,52,94, 125,805 | Var | 21 | 36 |

12-7-12 DATE
 REGISTERED CIVIL ENGINEER
 02-25-13 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

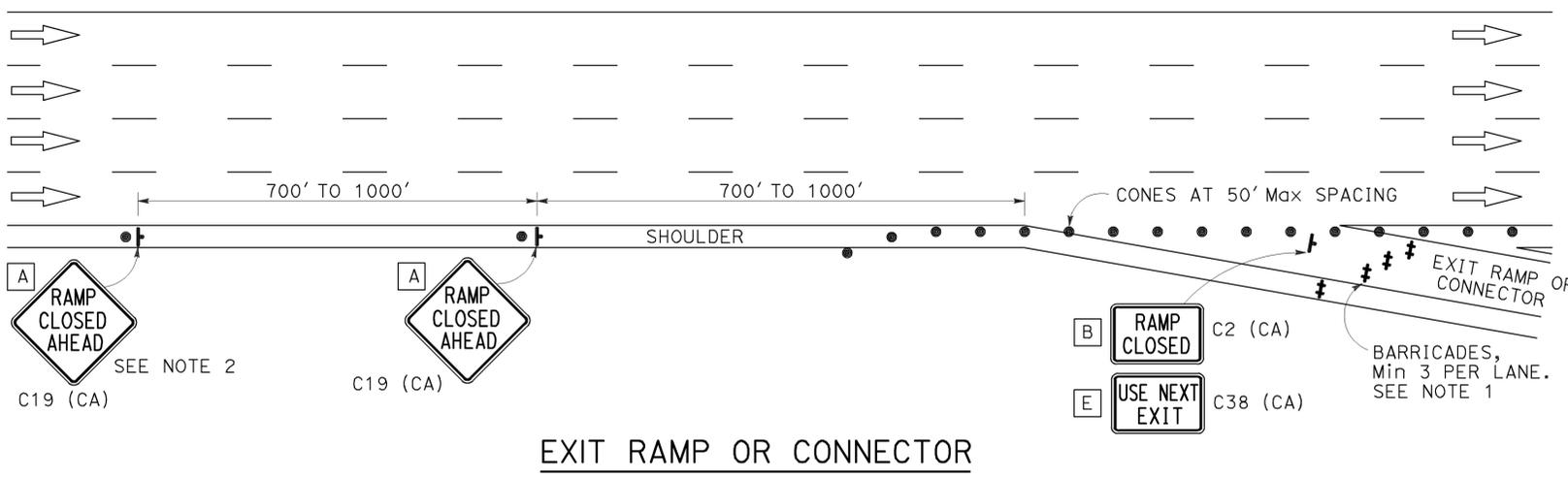
REGISTERED PROFESSIONAL ENGINEER
 Gurinderpal Bhullar
 No. C48815
 Exp. 9-30-14
 CIVIL
 STATE OF CALIFORNIA

LEGEND

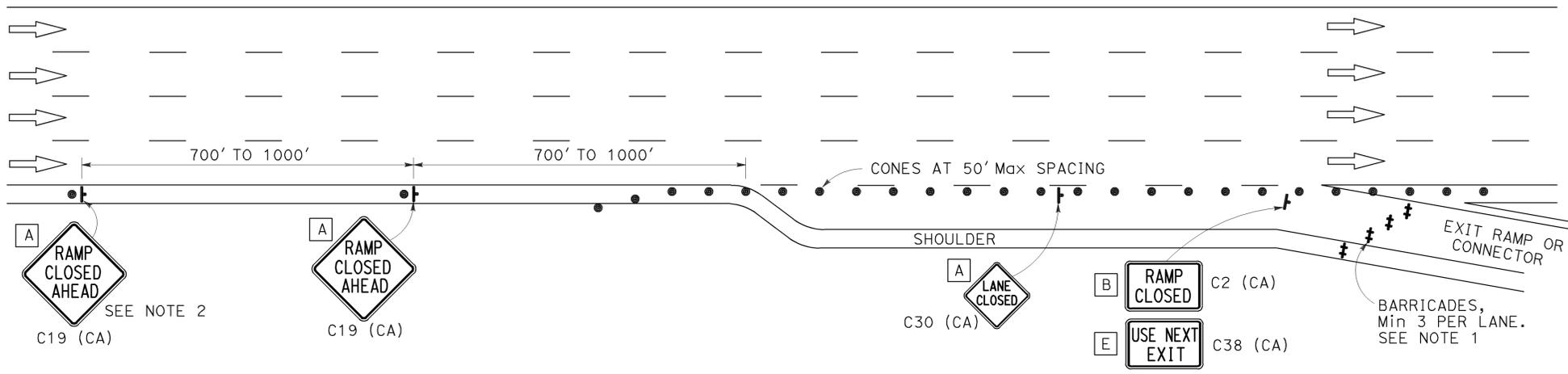
- TRAFFIC CONE
- † TEMPORARY SIGN
- ‡ BARRICADES

NOTES:

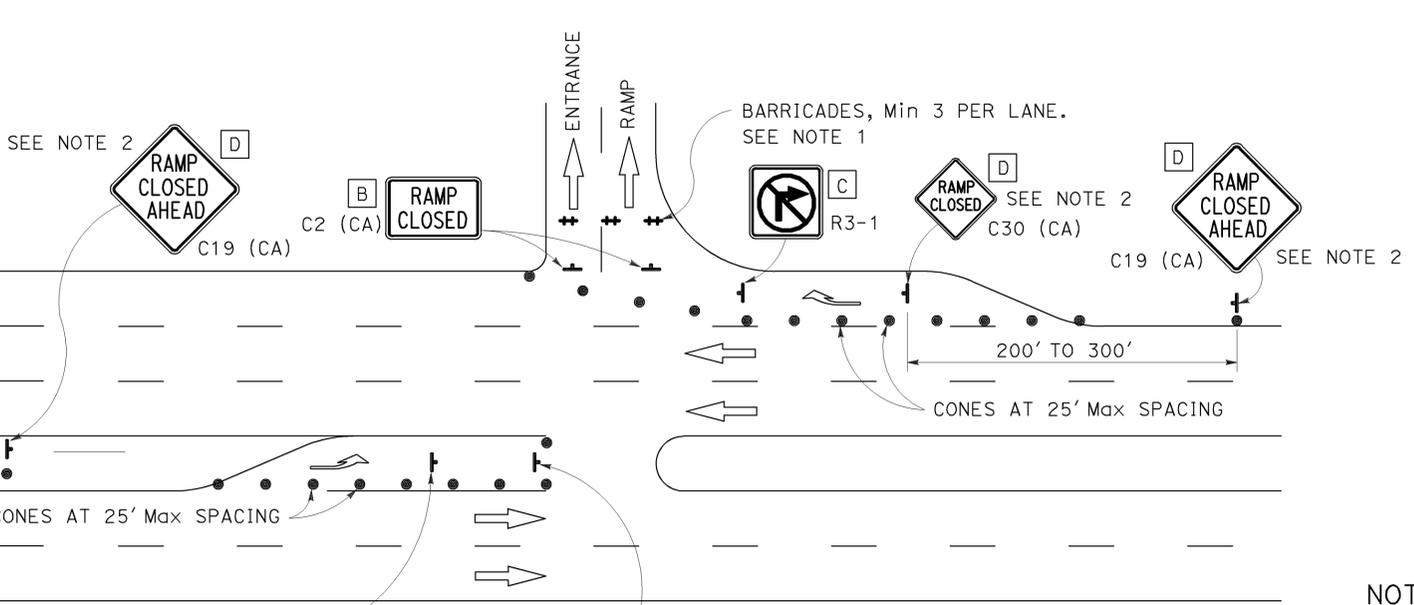
- Barricades shall be Type I, II, or III for closures lasting one week or less and Type III for closures lasting longer than one week.
- In addition to placing the C19 (CA) "RAMP CLOSED AHEAD" and C30 (CA) "RAMP CLOSED" signs, black on orange overlay plates with the word "CLOSED" may be mounted, as directed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



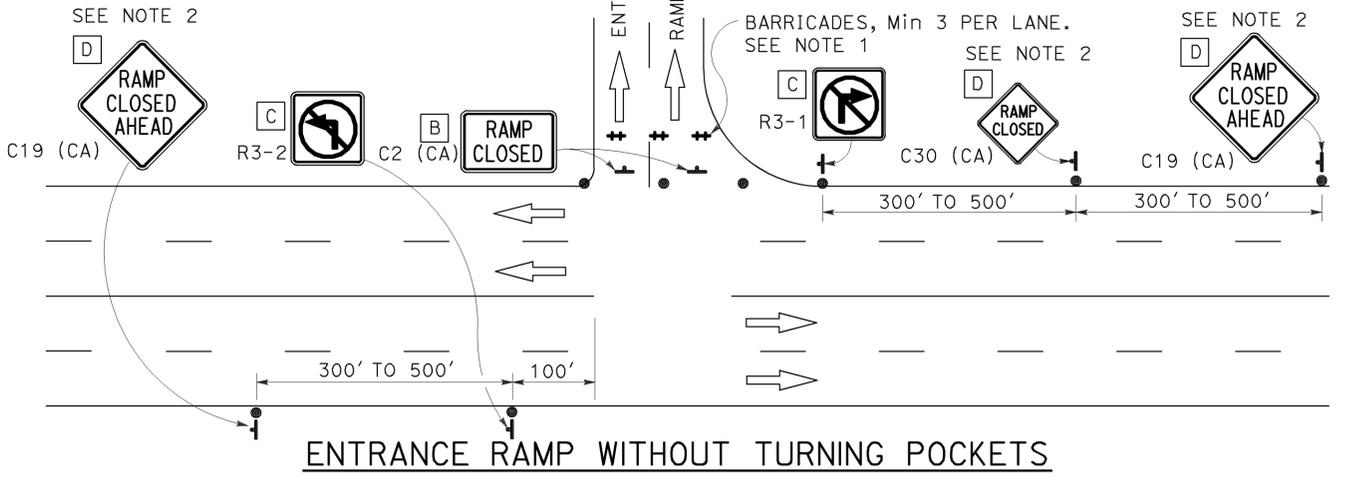
EXIT RAMP OR CONNECTOR



EXIT RAMP OR CONNECTOR WITH ADDITIONAL LANE



ENTRANCE RAMP WITH TURNING POCKETS



ENTRANCE RAMP WITHOUT TURNING POCKETS

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURE

NO SCALE

TCS-4

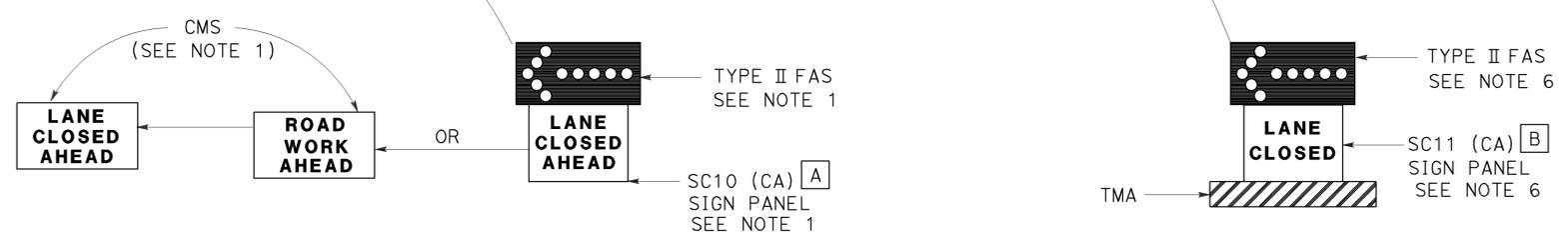
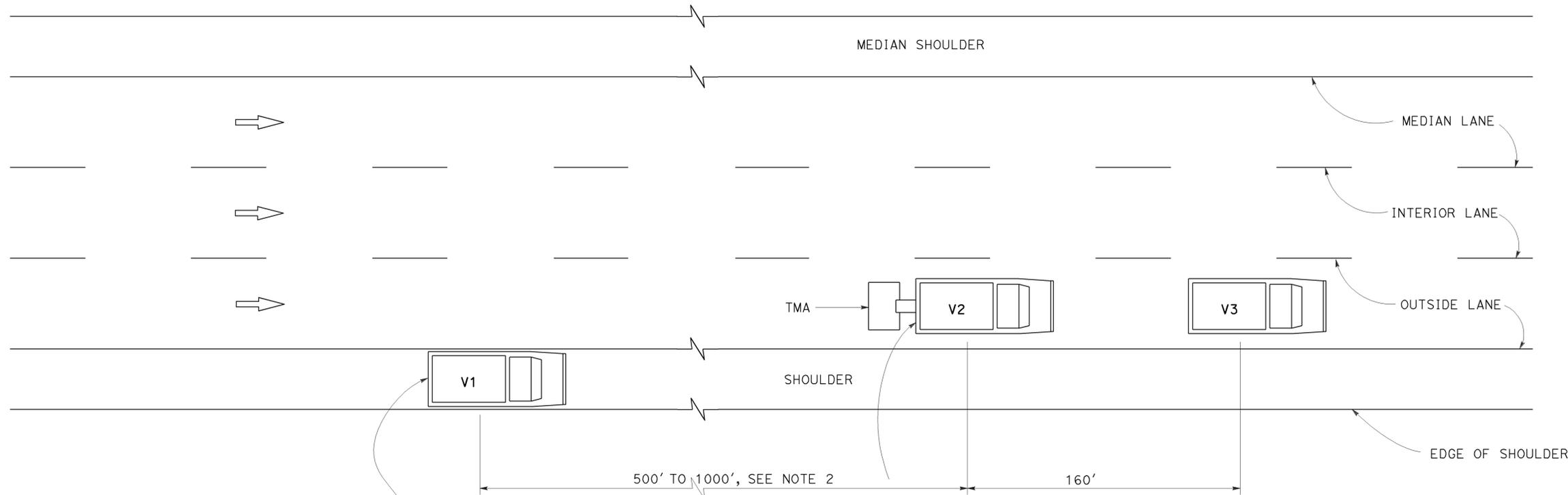
REVISIONS: REVISED BY, DATE, CALCULATED/DESIGNED BY, CHECKED BY, FUNCTIONAL SUPERVISOR, DEPARTMENT OF TRANSPORTATION, STATE OF CALIFORNIA, Caltrans

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|-----------------|--------------------------|-----------|--------------|
| 11 | SD | 8,52,94,125,805 | Var | 22 | 36 |

REGISTERED CIVIL ENGINEER: *Gurinderpal Bhullar* 12-7-12 DATE
 02-25-13 PLANS APPROVAL DATE

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

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



SIGN PANEL SIZE (Min)

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

LEGEND

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

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

NOTES:

- Either a changeable message sign or a SC10 (CA) sign panel and a Type II flashing arrow sign shall be mounted on the rear of sign vehicle V1. A Type II flashing arrow sign shall be mounted on the rear of sign vehicle V1 and used with the SC10 (CA) sign panel. A Type II flashing arrow sign will not be required with the changeable message sign provided the flashing arrow sign symbol is displayed on the changeable message sign board. The changeable message sign shall be sequenced to show the "ROAD WORK AHEAD" message first, followed by the "LANE CLOSED AHEAD" message and then the flashing arrow sign symbol. For median lane closure, the flashing arrow sign symbol shall be reversed with the arrowhead on the right.
- If traffic queues develop, sign vehicle V1 should be positioned upstream from the end of queue. Sign vehicle V1 shall be positioned where highly visible when shoulders are not available.
- A minimum sight distance of 1500' should be provided in advance of sign vehicle V1.
- Sign vehicle V1 should remain at the beginning of horizontal or vertical curves until the other vehicles (V2 and V3) are far enough beyond the curve to resume the minimum sight distance of 1500'.
- Vehicle-mounted sign panels shall be Type III, IV, VII, VIII or IX retroreflective sheeting, black on white, black on orange, or black on fluorescent orange, with 6" minimum series D letters per Caltrans sign specifications.
- Gross Vehicle Weight of shadow vehicle V2 shall be a minimum of 20,000 pounds and shall be equipped with a truck-mounted attenuator. The sign panel shall be shown and a Type II flashing arrow sign shall be mounted on the rear of shadow vehicle V2. For median lane closure the flashing arrow sign symbol shall be displayed with the arrowhead on the right.
- All vehicles used for lane closures shall be equipped with two-way radios, and the vehicle operators shall maintain communication during the work or application operation.
- Where sufficient shoulder width is not available, sign vehicle V1 may encroach into the traffic lane staying as close to the edge of shoulder as practicable. Both V1 and V2 shall be equipped with a truck-mounted attenuator. The Gross Vehicle Weight of V1 and V2 shall be at least 20,000 pounds, respectively.
- When multiple work vehicles are used in close proximity to each other, only one shadow vehicle is required, and spacing between work vehicles shall be minimized in order to deter traffic from entering the closed lane.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
 FOR MOVING LANE CLOSURE
 ON MULTILANE HIGHWAYS
 (OUTSIDE AND MEDIAN LANES)**
 NO SCALE
TCS-5

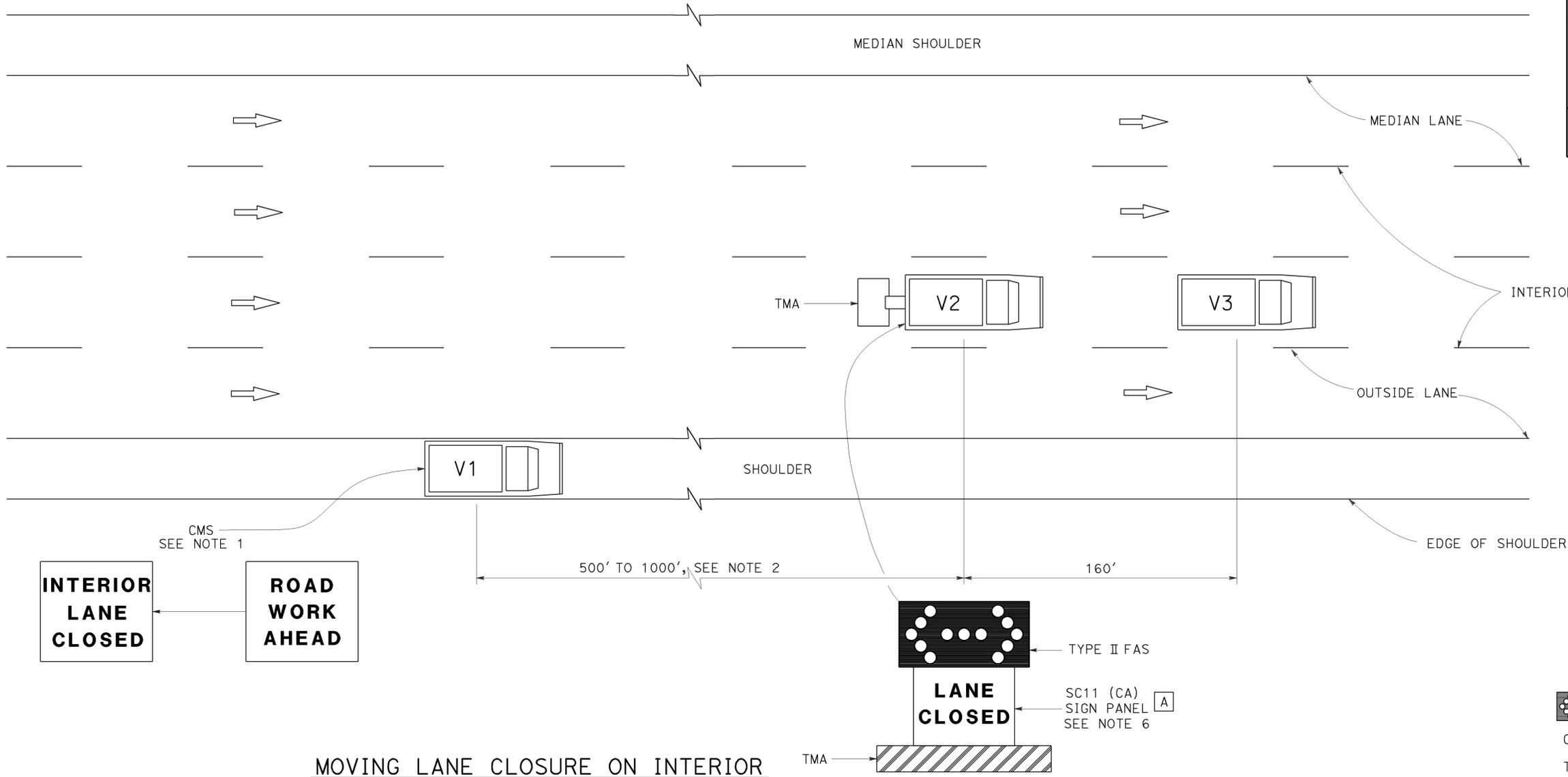
REVISIONS: 01-15-13, 02-25-13
 DESIGNED BY: []
 CHECKED BY: []
 CALCULATED/DESIGNED BY: []
 FUNCTIONAL SUPERVISOR: []
 DEPARTMENT OF TRANSPORTATION
 STATE OF CALIFORNIA
 Caltrans

| | | | | | |
|------|--------|---------------------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 11 | SD | 8,52,94, 125,805 | Var | 23 | 36 |

12-7-12
 REGISTERED CIVIL ENGINEER DATE
 02-25-13
 PLANS APPROVAL DATE

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

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



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

MOVING LANE CLOSURE ON INTERIOR LANE OF MULTILANE HIGHWAYS

NOTES:

1. A changeable message sign shall be mounted on the rear of sign vehicle V1. The changeable message sign shall be sequenced to show the "ROAD WORK AHEAD" message first, followed by the "INTERIOR LANE CLOSED" message. The message "CENTER LANE CLOSED" may be used in place of the "INTERIOR LANE CLOSED" message.
2. If traffic queues develop, sign vehicle V1 should be positioned upstream from the end of queue. Sign vehicle V1 shall be positioned where highly visible when shoulders are not available.
3. A minimum sight distance of 1500' should be provided in advance of sign vehicle V1.
4. Sign vehicle V1 should remain at the beginning of horizontal or vertical curves until the other vehicles (V2 and V3) are far enough beyond the curve to resume the minimum sight distance of 1500'.
5. Vehicle-mounted sign panels shall be Type III, IV, VII, VIII, or IX retroreflective sheeting, black on white, black on orange, or black on fluorescent orange, with 6" minimum series D letters per Caltrans sign specifications.
6. Gross Vehicle Weight of shadow vehicle V2 shall be a minimum of 20,000 pounds and shall be equipped with a truck-mounted attenuator. The sign panel shown and a Type II flashing arrow sign shall be mounted on the rear of shadow vehicle V2.
7. All vehicles used for lane closures shall be equipped with two-way radios, and the vehicle operators shall maintain communication during the work or application operation.
8. All vehicles shall be equipped with flashing or rotating amber lights.
9. Where sufficient shoulder width is not available, sign vehicle V1 may encroach into the traffic lane staying as close to the edge of shoulder as practicable. Both V1 and V2 shall be equipped with a truck-mounted attenuator. The Gross Vehicle Weight of V1 and V2 shall be at least 20,000 pounds, respectively.
10. When multiple work vehicles are used in close proximity to each other, only one shadow vehicle is required, and spacing between work vehicles shall be minimized in order to deter traffic from entering the closed lane.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**TRAFFIC CONTROL SYSTEM
FOR MOVING LANE CLOSURE
ON MULTILANE HIGHWAYS
(INTERIOR LANES)**

NO SCALE

TCS-6

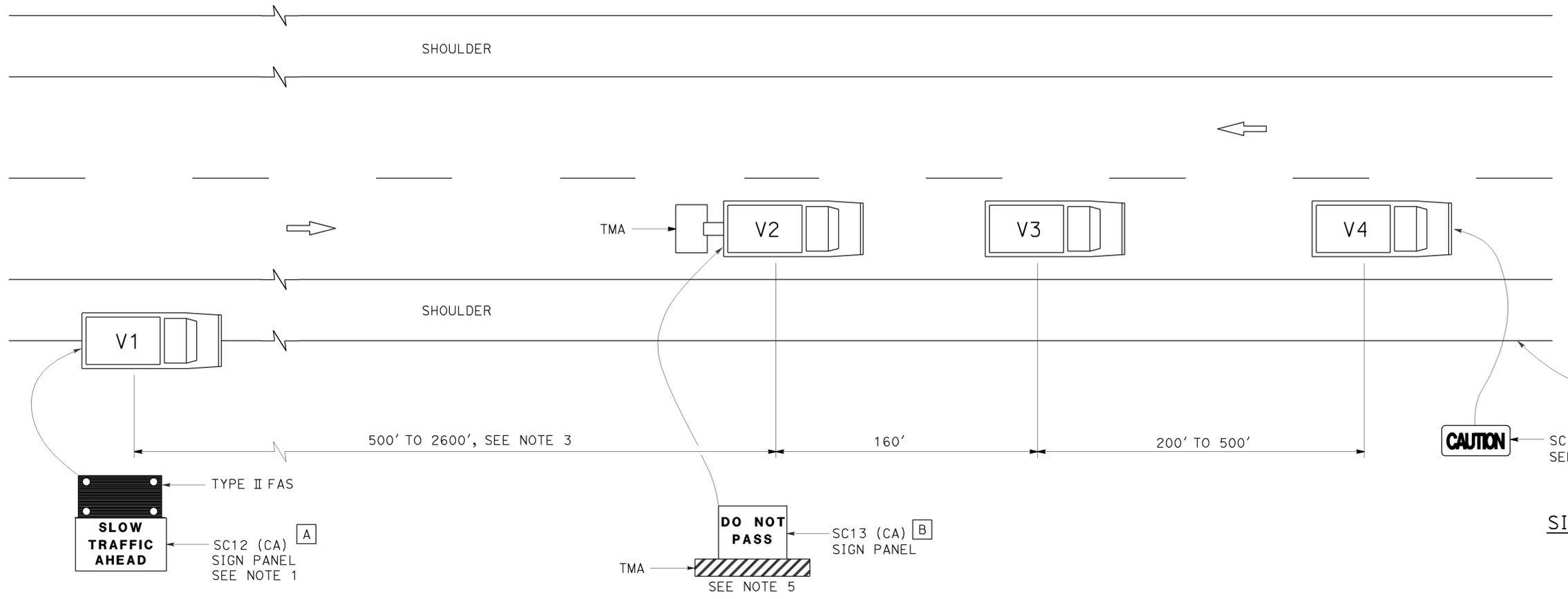
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Et Caltrans®
 FUNCTIONAL SUPERVISOR
 CALCULATED/DESIGNED BY
 CHECKED BY
 REVISED BY
 DATE REVISED

| | | | | | |
|------|--------|-----------------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 11 | SD | 8,52,94,125,805 | Var | 24 | 36 |

12-7-12
 REGISTERED CIVIL ENGINEER DATE
 02-25-13
 PLANS APPROVAL DATE

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

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



SIGN PANEL SIZE (Min)

- A 72" x 42"
- B 54" x 42"
- C 54" x 24"

LEGEND

- V1 SIGN VEHICLE
- V2 SHADOW VEHICLE
- V3 WORK/APPLICATION VEHICLE
- V4 SIGN VEHICLE
- TMA TRUCK-MOUNTED ATTENUATOR
- FLASHING ARROW SIGN (FAS) IN FLASHING CAUTION MODE

NOTES:

- Either a changeable message sign or a SC12 (CA) "SLOW TRAFFIC AHEAD" sign shall be mounted on the rear of sign vehicle V1. A Type II flashing arrow sign may be used with the SC12 (CA) sign panel.
- Sign vehicle V1 should be positioned where highly visible when shoulders are not available.
- If traffic queues develop, sign vehicle V1 should be positioned upstream from the end of queue.
- Vehicle-mounted sign panels shall be Type III, IV, VII, VIII or IX retroreflective sheeting, black on white, black on orange, or black on fluorescent orange, with 6" minimum series D letters per Caltrans sign specifications.
- Gross Vehicle Weight of shadow vehicle shall be a minimum of 20,000 pounds and shall be equipped with a truck-mounted attenuator. The sign panel shown shall be mounted on the rear of shadow vehicle V2. The message "LANE CLOSED" may be used in place of the "DO NOT PASS" message.
- The sign panel shown shall be mounted on the front of sign vehicle V4, facing opposing traffic.
- All vehicles shall be equipped with flashing or rotating amber lights.
- Sign vehicle V4 will not be required when the work and vehicles V2 and V3 are 2' or more from the centerline of the highway during the work or application operations.
- All vehicles used for lane closures shall be equipped with two-way radios and the vehicle operators shall maintain communication during the work or application operation.
- When multiple work vehicles are used in close proximity to each other, only one shadow vehicle is required and spacing between work vehicles shall be minimized in order to deter traffic from entering the closed lane.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
FOR MOVING LANE CLOSURE
ON TWO LANE HIGHWAYS**

NO SCALE

TCS-7

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Caltrans

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|---------------------|--------------------------|-----------|--------------|
| 11 | SD | 8, 52, 94, 125, 805 | Var | 25 | 36 |

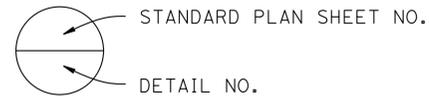
REGISTERED CIVIL ENGINEER DATE 11-20-12
 PLANS APPROVAL DATE 02-25-13
 No. C69896
 Exp. 09/30/14
 CIVIL
 STATE OF CALIFORNIA
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

INDEX TO PLANS

| SHEET NO. | TITLE |
|-----------|--|
| 1 | GENERAL PLAN NO. 1 |
| 2 | GENERAL PLAN NO. 2 |
| 3 | GENERAL PLAN NO. 3 |
| 4 | GENERAL PLAN NO. 4 |
| 5 | GENERAL PLAN NO. 5 |
| 6 | GENERAL PLAN NO. 6 |
| 7 | GENERAL PLAN NO. 7 |
| 8 | GENERAL PLAN NO. 8 |
| 9 | GENERAL PLAN NO. 9 |
| 10 | JOINT SEAL TABLE AND DETAILS |
| 11 | DECK REPAIR DETAILS |
| 12 | JOINT SEAL ASSEMBLY-MAXIMUM MOVEMENT RATING=4" |

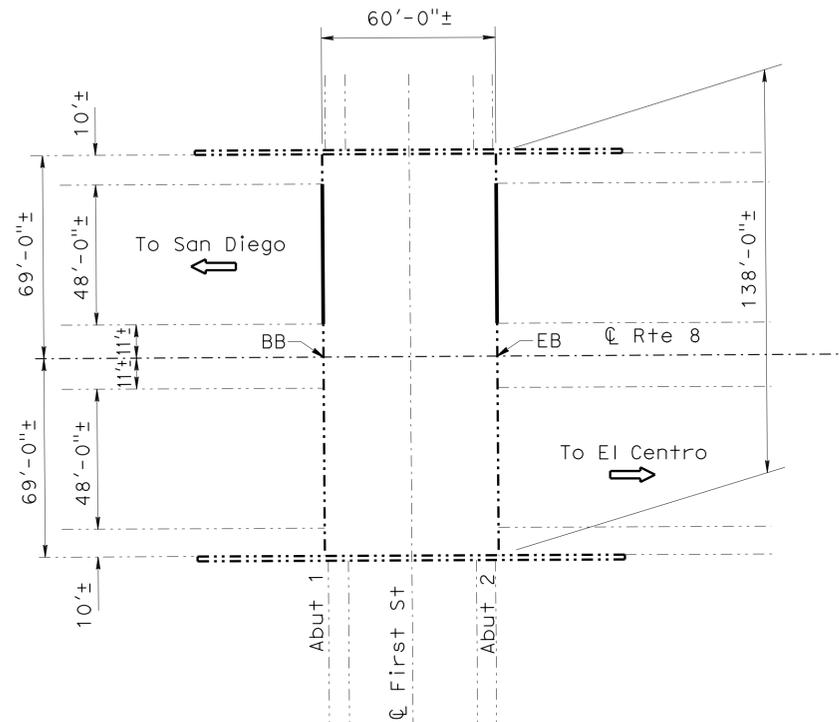
STANDARD PLANS 2010

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



LEGEND:

- Indicates existing.
- ⇒ Indicates direction of traffic.
- Indicates location of existing joint seal removal, clean expansion joint and placement of new joint seal. See "JOINT SEAL DETAILS" sheet. For joint spall repair detail and notes, see "JOINT SEAL DETAILS" sheet.



FIRST STREET UC

Br No. 57-0378, Rte 8, PM 16.84
No Scale



FIRST STREET UC #57-0378

QUANTITIES

| | |
|--------------------------------|-------|
| RAPID SETTING CONCRETE (PATCH) | 2 CF |
| REMOVE UNSOUND CONCRETE | 2 CF |
| CLEAN EXPANSION JOINT | 96 LF |
| JOINT SEAL (MR 1/2") | 96 LF |

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

| | | | | | | | | | | | | |
|---|------------|------------------|------------------------|--------------------|--|--|--------------------------------------|---|---|----------------|----------|-------|
| TONY D. BRAKE DESIGN ENGINEER | DESIGN | BY Mazin Ibrahim | CHECKED Mehran Sajjadi | LOAD FACTOR DESIGN | LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | BRIDGE NO. | ROUTES 8, 52, 94, 125 & 805 BRIDGES GENERAL PLAN NO. 1 | | | | |
| | DETAILS | BY Clayton Tom | CHECKED Mazin Ibrahim | LAYOUT | BY Clayton Tom | | CHECKED Mazin Ibrahim | | POST MILE | | | |
| | QUANTITIES | BY Mazin Ibrahim | CHECKED Mehran Sajjadi | SPECIFICATIONS | BY Bryan Nagid | | CHECKED Karla Meier | | PLANS AND SPECS COMPARED | Varies | | |
| STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10) | | | | | | UNIT: 3489 | PROJECT NUMBER & PHASE: 1112000027 1 | CONTRACT NO.: 11-2M5201 | DISREGARD PRINTS BEARING EARLIER REVISION DATES | REVISION DATES | SHEET 01 | OF 12 |

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



FILE => 11-2m5201-a-gp01.dgn

07-13-12 08-22-12 11-16-12 11-20-12

| | | | | | |
|---|--------|---------------------|---|-----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 11 | SD | 8, 52, 94, 125, 805 | Var | 26 | 36 |
|  | | | 11-20-12 REGISTERED CIVIL ENGINEER DATE 02-25-13 PLANS APPROVAL DATE | | |
| <small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small> | | | | | |

SPRING CANYON #57-0982L
QUANTITIES

| | |
|--|-------------|
| PUBLIC SAFETY PLAN | LUMP SUM |
| PREPARE CONCRETE BRIDGE DECK SURFACE | 39,780 SQFT |
| TREAT BRIDGE DECK | 39,780 SQFT |
| FURNISH BRIDGE DECK TREATMENT MATERIAL | 497 GAL |
| BRIDGE REMOVAL (PORTION) | LUMP SUM |
| STRUCTURAL CONCRETE, BRIDGE | 6 CY |
| JOINT SEAL ASSEMBLY (MR 4") | 51 LF |
| CLEAN EXPANSION JOINT | 51 LF |
| BAR REINFORCEMENT STEEL (BRIDGE) | 312 LB |

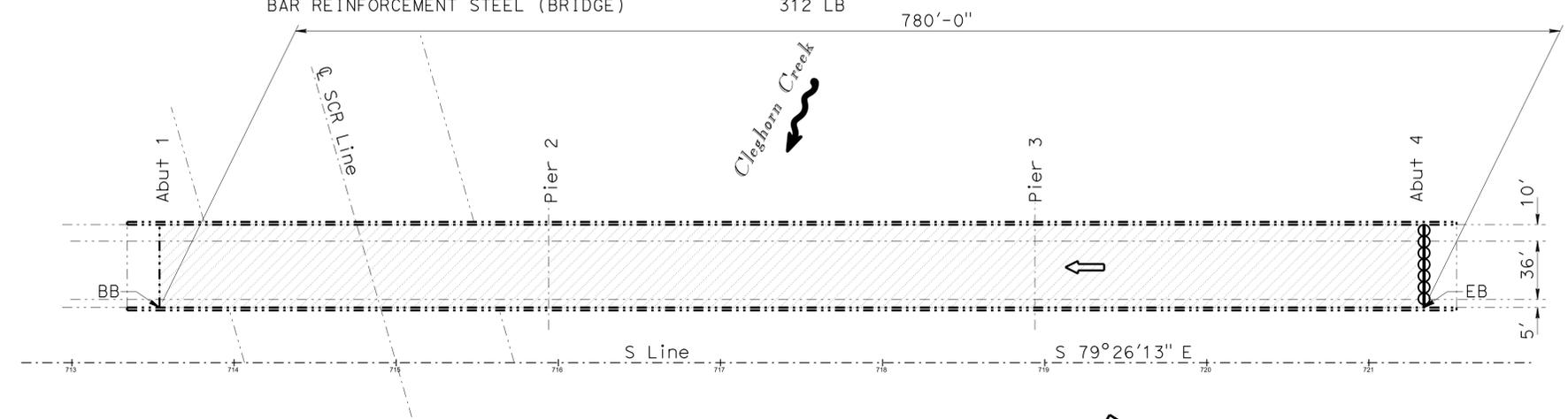
LEGEND:

- Indicates existing.
- ⇒ Indicates direction of traffic.
-  Indicates limits of prepare concrete bridge deck surface and treat existing bridge with high molecular weight methacrylate. Prior to bridge deck treatment, remove unsound concrete and patch with rapid setting concrete, as directed by the Engineer.
-  Indicates location of existing joint seal removal, clean expansion joint and placement of new joint seal. See "JOINT SEAL DETAILS" sheet. For joint spall repair detail and notes, see "JOINT SEAL DETAILS" sheet.
-  Indicates location of existing joint seal assembly removal, and placement of new joint seal.
-  Indicates limits of concrete removal and placement of new PCC.

GENERAL NOTES:

Structural Concrete
f'c = 4000 psi

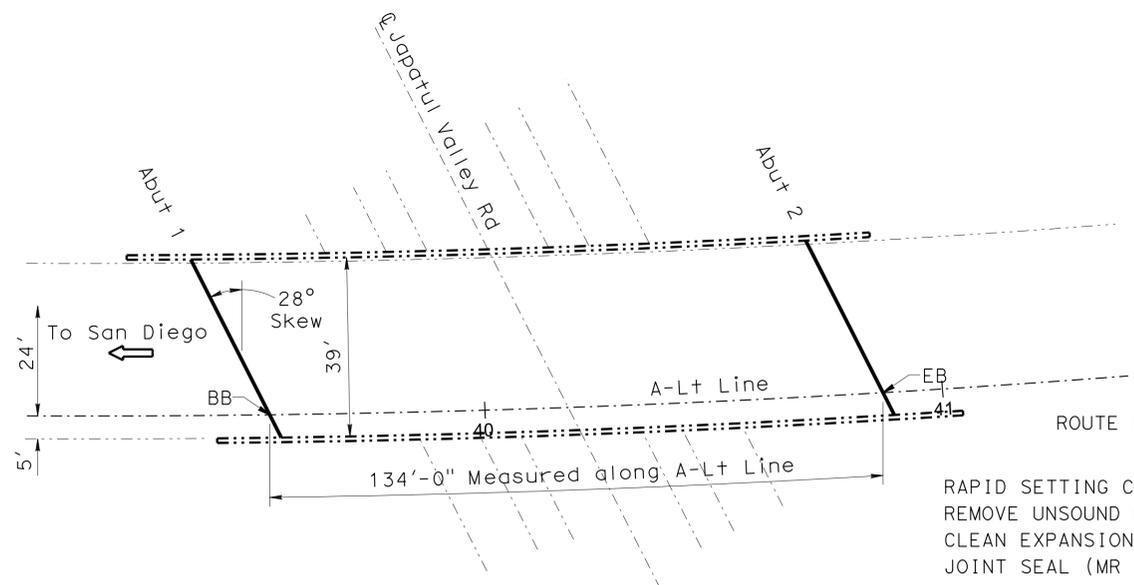
Reinforcing Bar
fy = 60 ksi
ASTM A706, Grade 60



TEMPORARY DECKING DESIGN LOADING SPRING CANYON

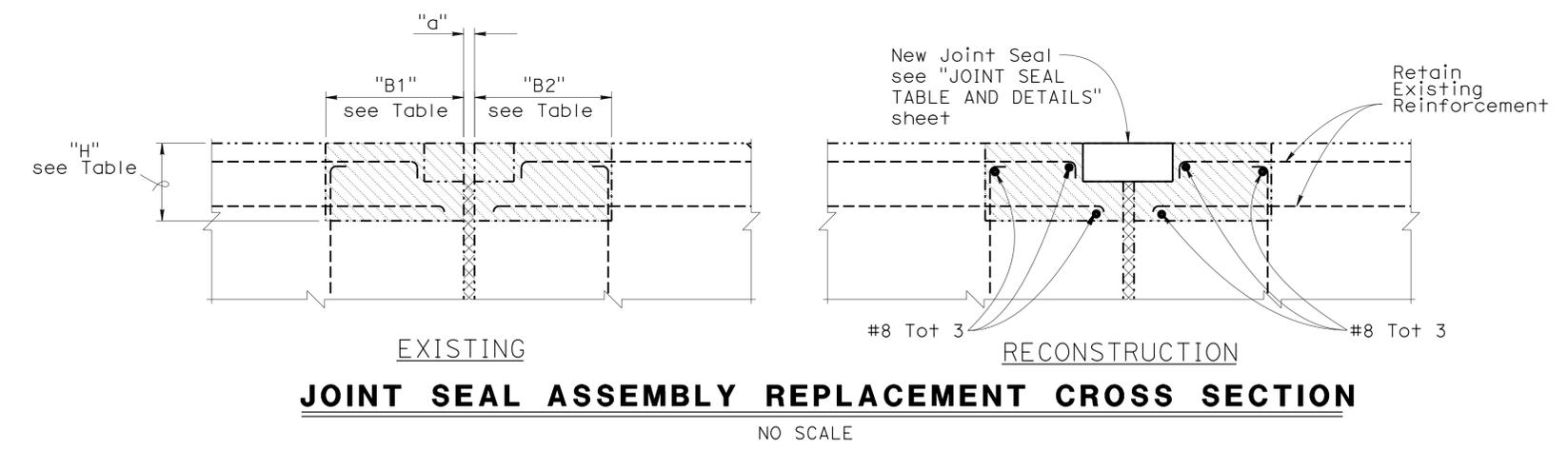
- Movement demand per foot = 3800 lbs-ft/ft
- For steel plate systems:
 - anchor bolt shear per foot = 2700 lbs/ft
 - anchor bolt tension = 4225 lbs
 - maximum anchor bolt spacing = 1.0 ft
 - anchor bolt min. 7/8"Ø

SPRING CANYON
Br No. 57-0982L, Rte 52, PM 12.40
No Scale



ROUTE 8/79 SEPARATION
Br No. 57-0689L, Rte 8, PM R37.83
No Scale

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



JOINT SEAL ASSEMBLY REPLACEMENT CROSS SECTION

QUANTITIES

| | |
|--------------------------------|-------|
| RAPID SETTING CONCRETE (PATCH) | 2 CF |
| REMOVE UNSOUND CONCRETE | 2 CF |
| CLEAN EXPANSION JOINT | 90 LF |
| JOINT SEAL (MR 1/2") | 90 LF |

| BRIDGE NUMBER | JOINT SEAL LOCATION | "B1" | "B2" | "H" |
|---------------|---------------------|------|-------|-----|
| 57-0982L | Abut 4 | 14" | 1'-8" | 12" |

For "a" dimensions, see "JOINT SEAL ASSEMBLY (Maximum Movement Rating = 4")" sheet.

| | | | | | |
|---|------------|------------------|------------------------|--------------------|--|
|  DESIGN ENGINEER | DESIGN | By Mazin Ibrahim | CHECKED Mehran Sajjadi | LOAD FACTOR DESIGN | LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD |
| | DETAILS | By Clayton Tom | CHECKED Mazin Ibrahim | LAYOUT | By Clayton Tom |
| | QUANTITIES | By Mazin Ibrahim | CHECKED Mehran Sajjadi | SPECIFICATIONS | By Bryan Nagid |

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTES 8, 52, 94, 125 & 805 BRIDGES
GENERAL PLAN NO. 2

UNIT: 3489
PROJECT NUMBER & PHASE: 1112000027 1 CONTRACT NO.: 11-2M5201

DISREGARD PRINTS BEARING EARLIER REVISION DATES

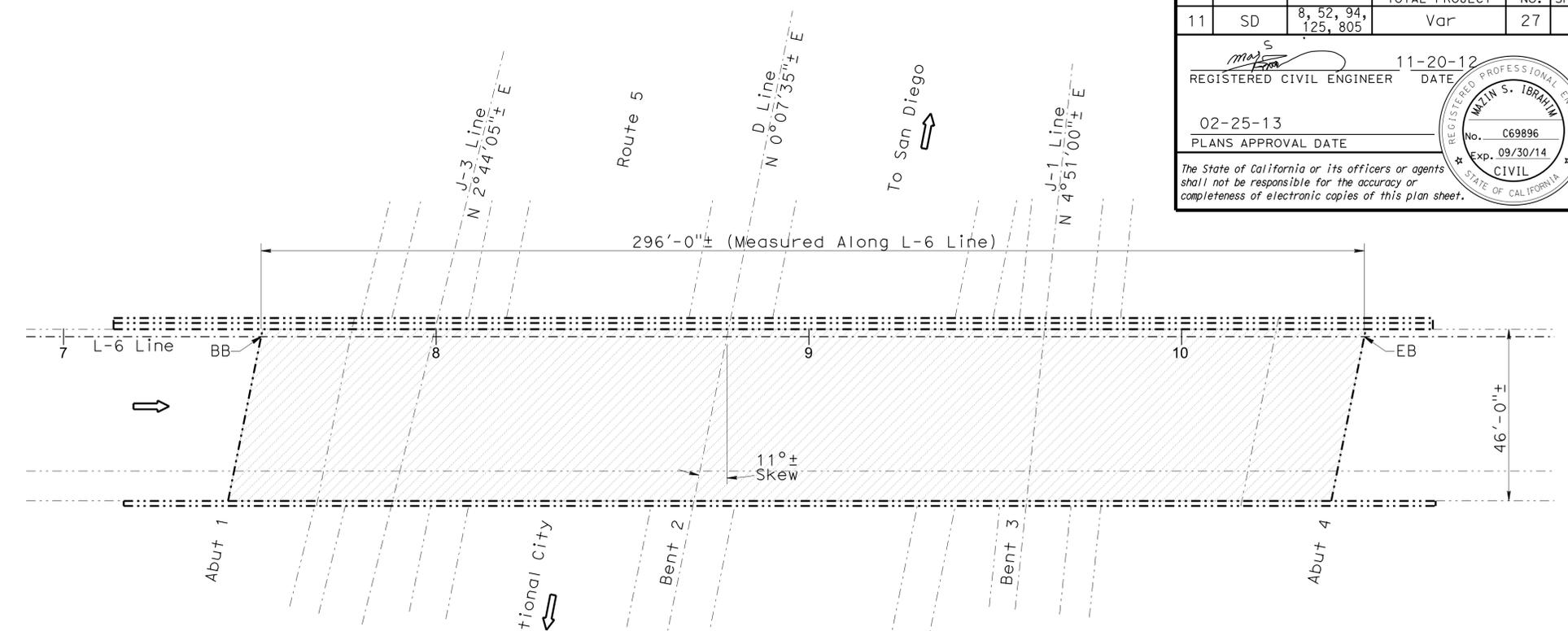
| REVISION DATES | SHEET | OF |
|-------------------------------------|-------|----|
| 07-13-12 08-22-12 11-16-12 11-20-12 | 02 | 12 |

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|---------------------|--------------------------|-----------|--------------|
| 11 | SD | 8, 52, 94, 125, 805 | Var | 27 | 36 |

11-20-12
 REGISTERED CIVIL ENGINEER DATE
 02-25-13
 PLANS APPROVAL DATE
 REGISTERED PROFESSIONAL ENGINEER
 MAZIN S. IBRAHIM
 No. C69896
 Exp. 09/30/14
 CIVIL
 STATE OF CALIFORNIA
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

LEGEND:

- Indicates existing.
- ➔ Indicates direction of traffic.
- ▨ Indicates limits of prepare concrete bridge deck surface and treat existing bridge with high molecular weight methacrylate. Prior to bridge deck treatment, remove unsound concrete and patch with rapid setting concrete, as directed by the Engineer.

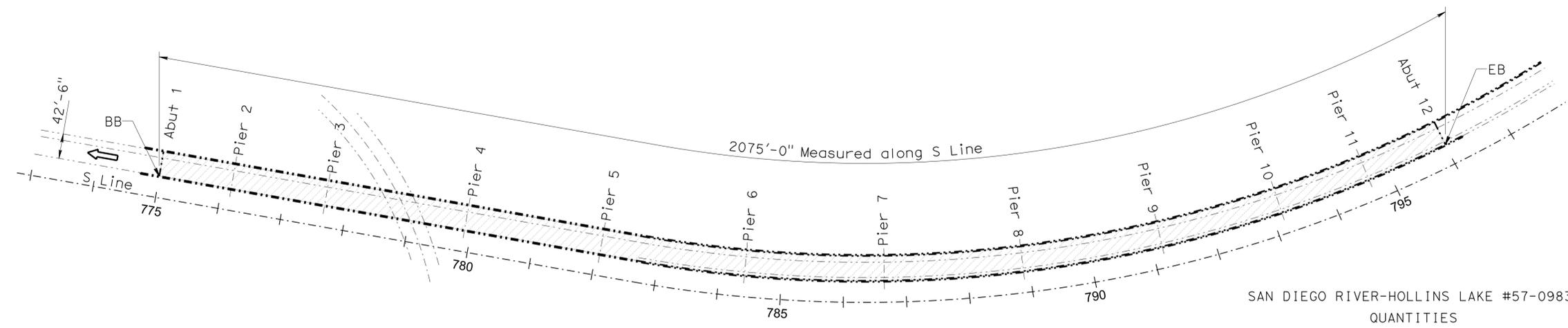


ROUTE 94/5 SEPARATION #57-0417R
QUANTITIES

| | |
|--|-------------|
| PUBLIC SAFETY PLAN | LUMP SUM |
| PREPARE CONCRETE BRIDGE DECK SURFACE | 13,616 SQFT |
| TREAT BRIDGE DECK | 13,616 SQFT |
| FURNISH BRIDGE DECK TREATMENT MATERIAL | 170 GAL |

ROUTE 94/5 SEPARATION

Br No. 57-0417R, Rte 94, PM 1.42
No Scale



SAN DIEGO RIVER - HOLLINS LAKE #57-0983L
QUANTITIES

| | |
|--|-------------|
| PUBLIC SAFETY PLAN | LUMP SUM |
| PREPARE CONCRETE BRIDGE DECK SURFACE | 88,188 SQFT |
| TREAT BRIDGE DECK | 88,188 SQFT |
| FURNISH BRIDGE DECK TREATMENT MATERIAL | 1,102 GAL |

SAN DIEGO RIVER - HOLLINS LAKE

Br No. 57-0983L, Rte 52, PM 13.80
No Scale

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

| | | | | | |
|----------------------------------|------------|------------------|------------------------|--------------------|--|
| TONY D. BRAKE DESIGN ENGINEER | DESIGN | BY Mazin Ibrahim | CHECKED Mehran Sajjadi | LOAD FACTOR DESIGN | LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD |
| | DETAILS | BY Clayton Tom | CHECKED Mazin Ibrahim | LAYOUT | BY Clayton Tom |
| | QUANTITIES | BY Mazin Ibrahim | CHECKED Mehran Sajjadi | SPECIFICATIONS | BY Bryan Nagid |

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

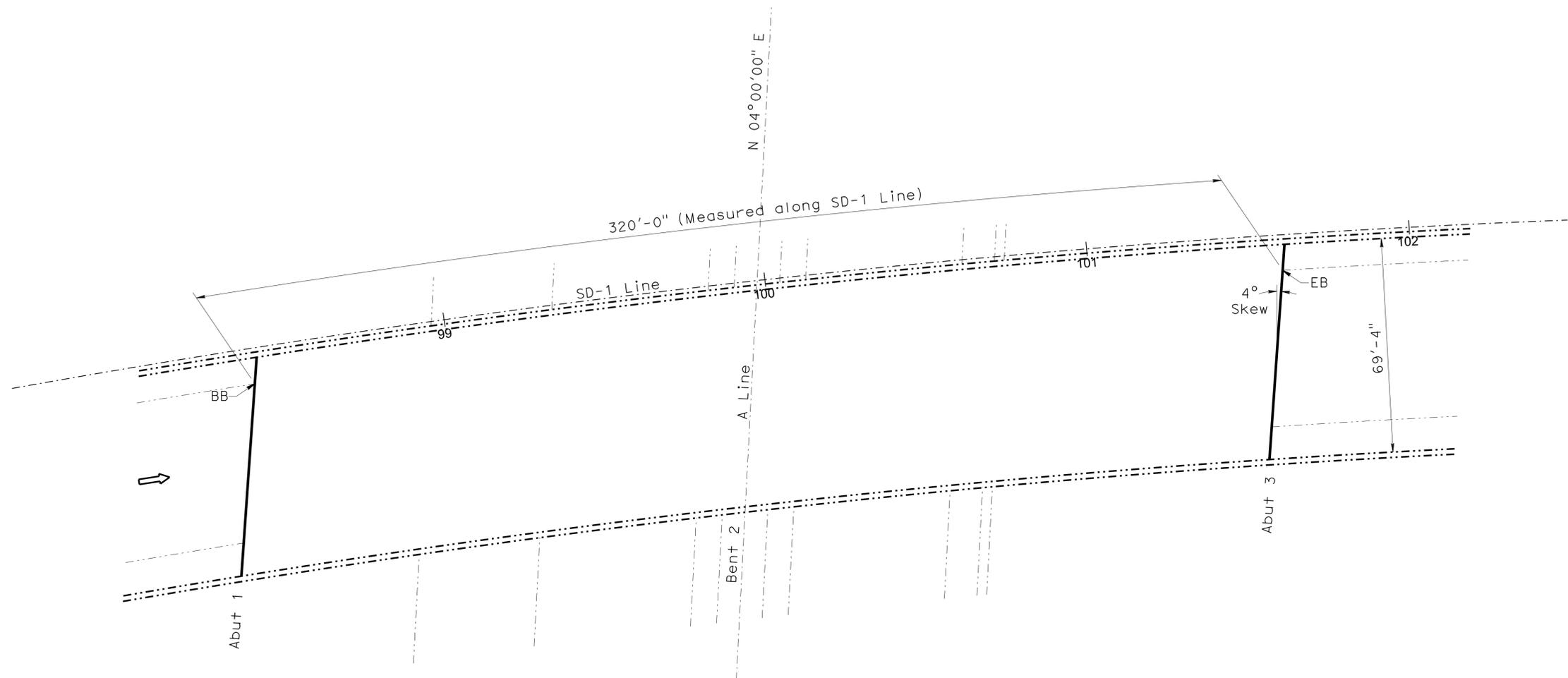
BRIDGE NO. Various
POST MILE Varies
ROUTES 8, 52, 94, 125 & 805 BRIDGES
GENERAL PLAN NO. 3

| | | | | | |
|------|--------|---------------------|--------------------------|-----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 11 | SD | 8, 52, 94, 125, 805 | Var | 28 | 36 |

REGISTERED CIVIL ENGINEER DATE 11-20-12
 PLANS APPROVAL DATE 02-25-13
 REGISTERED PROFESSIONAL ENGINEER
 No. C69896
 Exp. 09/30/14
 CIVIL
 STATE OF CALIFORNIA
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

LEGEND:

- Indicates existing.
- ⇒ Indicates direction of traffic.
- Indicates location of existing joint seal removal, clean expansion joint and placement of new joint seal. See "JOINT SEAL DETAILS" sheet. For joint spall repair detail and notes, see "JOINT SEAL DETAILS" sheet.



ROUTE 94/805 SEPARATION

Br No. 57-0665R, Rte 94, PM 4.06
No Scale

ROUTE 94/805 SEPARATION #57-0665R

QUANTITIES

| | |
|--------------------------------|--------|
| RAPID SETTING CONCRETE (PATCH) | 2 CF |
| REMOVE UNSOUND CONCRETE | 2 CF |
| CLEAN EXPANSION JOINT | 140 LF |
| JOINT SEAL (MR 1 1/2") | 140 LF |

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

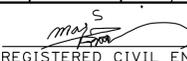
| | | | | | | | | | | |
|---|------------|------------------|------------------------|--------------------|--|--|---|--------------------------|--|-------------|
| TONY D. BRAKE DESIGN ENGINEER | DESIGN | BY Mazin Ibrahim | CHECKED Mehran Sajjadi | LOAD FACTOR DESIGN | LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN | BRIDGE NO. | ROUTES 8,52,94,125 & 805 BRIDGES GENERAL PLAN NO. 4 | |
| | DETAILS | BY Clayton Tom | CHECKED Mazin Ibrahim | LAYOUT | BY Clayton Tom | | | CHECKED Mazin Ibrahim | | POST MILE |
| | QUANTITIES | BY Mazin Ibrahim | CHECKED Mehran Sajjadi | SPECIFICATIONS | BY Bryan Nagid | | | PLANS AND SPECS COMPARED | | Karla Meier |

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 UNIT: 3489 PROJECT NUMBER & PHASE: 1112000027 1 CONTRACT NO.: 11-2M5201 DISREGARD PRINTS BEARING EARLIER REVISION DATES

| | | |
|-------------------------------------|-------|----|
| REVISION DATES | SHEET | OF |
| 07-13-12 08-22-12 11-16-12 11-20-12 | 04 | 12 |

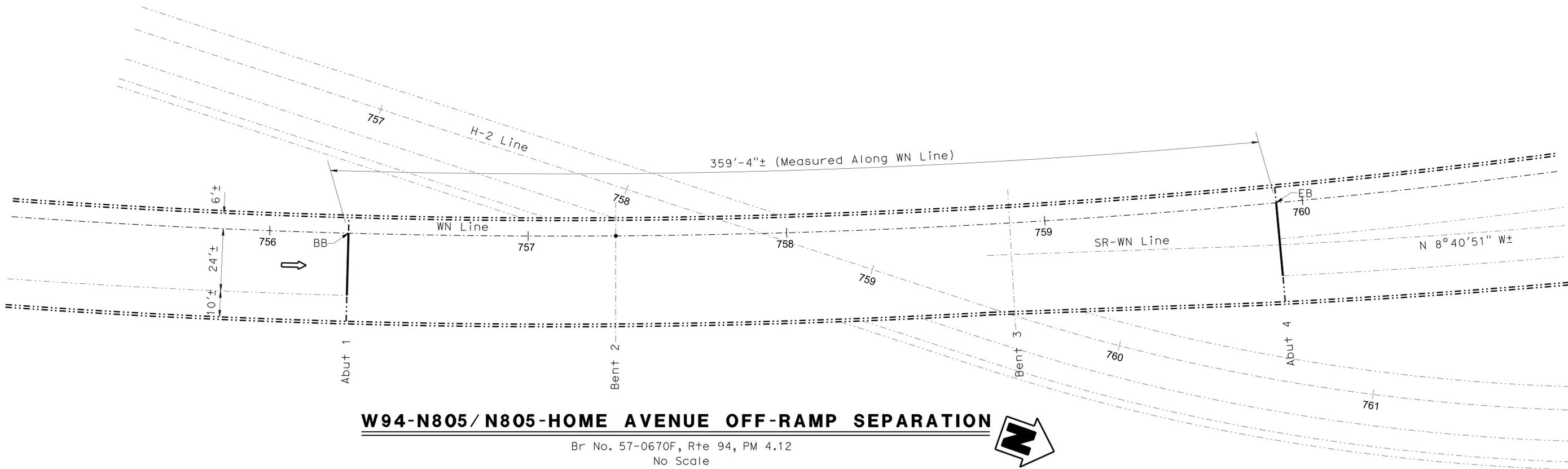
FILE => 11-2m5201-a-gp04.dgn

USERNAME => s127400 DATE PLOTTED => 25-FEB-2013 TIME PLOTTED => 15:40

| | | | | | |
|--|--------|---------------------|--|-----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 11 | SD | 8, 52, 94, 125, 805 | Var | 29 | 36 |
|  REGISTERED CIVIL ENGINEER | | | DATE | 11-20-12 | |
| PLANS APPROVAL DATE | | | 02-25-13 | | |
| REGISTERED PROFESSIONAL ENGINEER No. C69896 Exp. 09/30/14 CIVIL STATE OF CALIFORNIA | | | The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet. | | |

LEGEND:

- Indicates existing.
- ⇒ Indicates direction of traffic.
- Indicates location of existing joint seal removal, clean expansion joint and placement of new joint seal. See "JOINT SEAL DETAILS" sheet. For joint spall repair detail and notes, see "JOINT SEAL DETAILS" sheet.



W94-N805/N805-HOME AVENUE OFF-RAMP SEPARATION

Br No. 57-0670F, Rte 94, PM 4.12
No Scale

W94-N805/N805-HOME AVENUE OFF-RAMP SEPARATION #57-0670F
QUANTITIES

| | |
|--------------------------------|-------|
| RAPID SETTING CONCRETE (PATCH) | 2 CF |
| REMOVE UNSOUND CONCRETE | 2 CF |
| CLEAN EXPANSION JOINT | 48 LF |
| JOINT SEAL (MR 1½") | 48 LF |

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

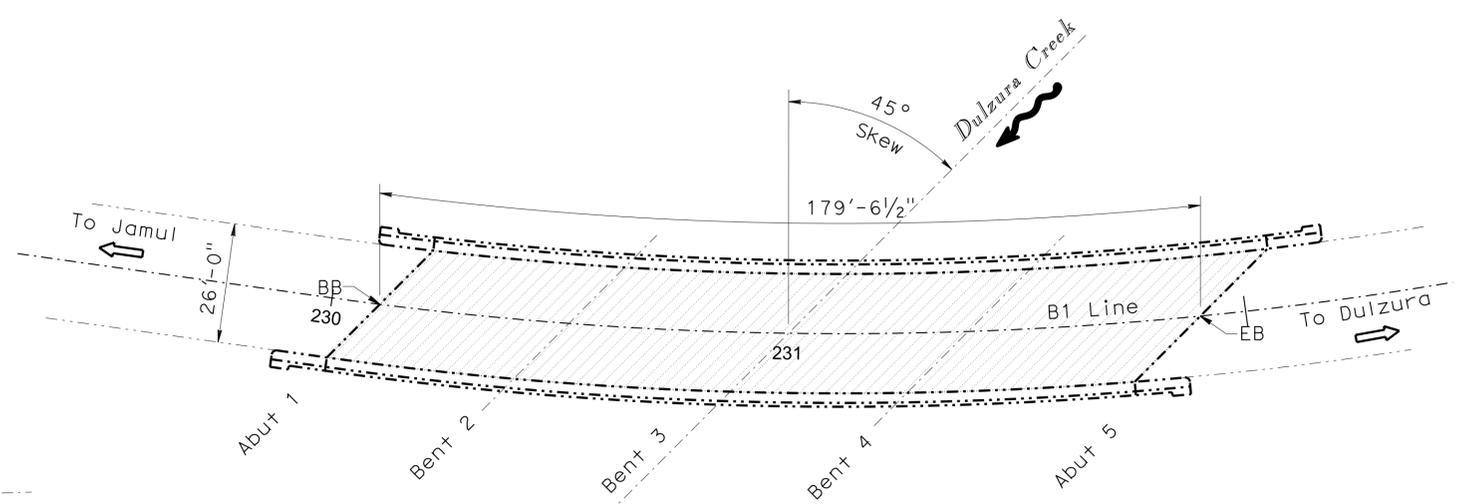
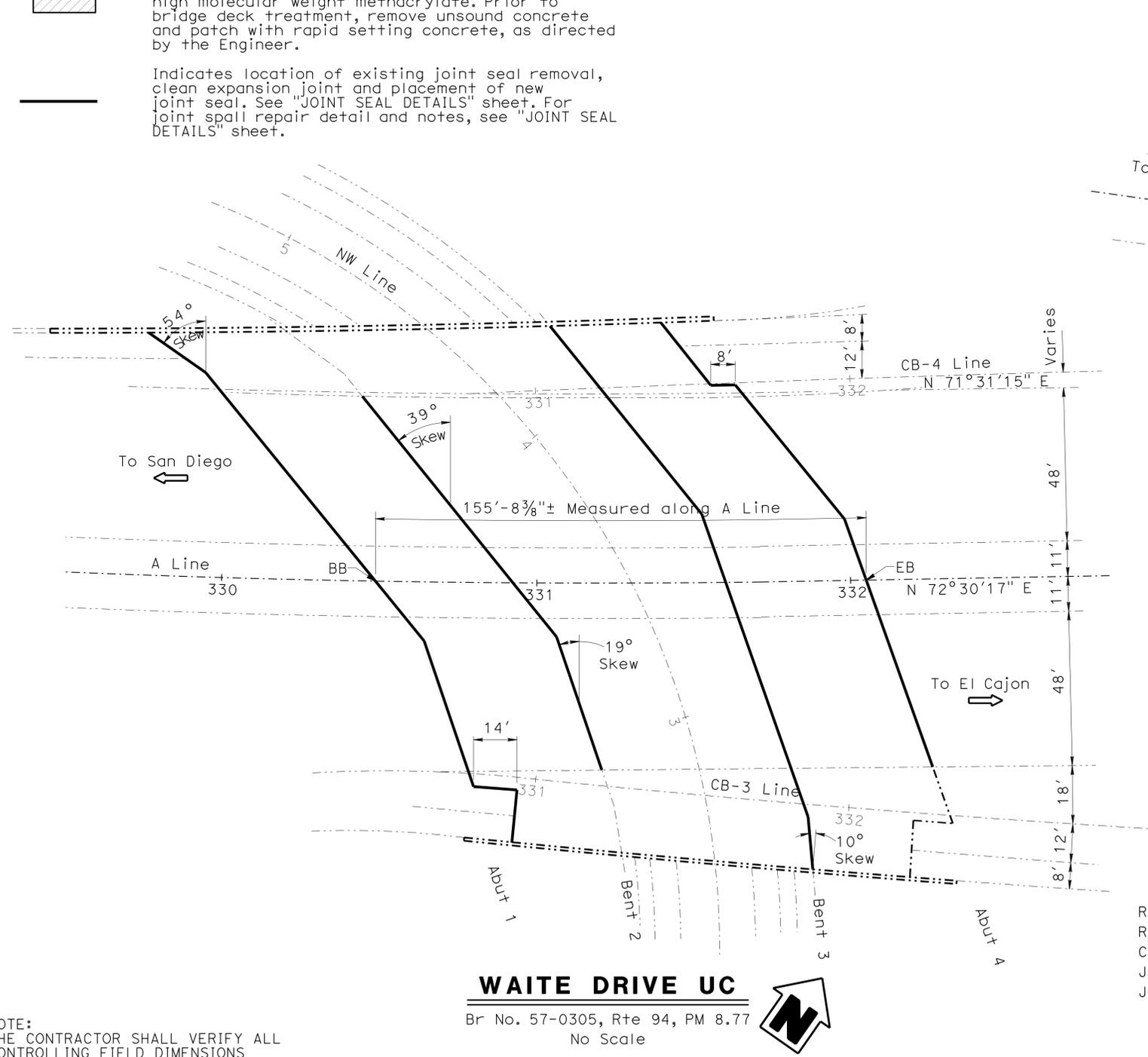
| | | | | | | | | | | | | | |
|---|------------|------------------|------------------------|--------------------|--|---|-----------------------|--|-------------------------|---|----------------|----------|-------|
|  DESIGN ENGINEER | DESIGN | BY Mazin Ibrahim | CHECKED Mehran Sajjadi | LOAD FACTOR DESIGN | LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | BRIDGE NO. | ROUTES 8,52,94,125 & 805 BRIDGES GENERAL PLAN NO. 5 | | | | | |
| | DETAILS | BY Clayton Tom | CHECKED Mazin Ibrahim | LAYOUT | BY Clayton Tom | | CHECKED Mazin Ibrahim | | POST MILE | | | | |
| | QUANTITIES | BY Mazin Ibrahim | CHECKED Mehran Sajjadi | SPECIFICATIONS | BY Bryan Nagid | | CHECKED Karla Meier | | Varies | | | | |
| STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10) | | | | | | ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | UNIT: 3489 | PROJECT NUMBER & PHASE: 1112000027 1 | CONTRACT NO.: 11-2M5201 | DISREGARD PRINTS BEARING EARLIER REVISION DATES | REVISION DATES | SHEET 05 | OF 12 |

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|---------------------|--------------------------|-----------|--------------|
| 11 | SD | 8, 52, 94, 125, 805 | Var | 30 | 36 |

REGISTERED CIVIL ENGINEER DATE 11-20-12
 PLANS APPROVAL DATE 02-25-13
 REGISTERED PROFESSIONAL ENGINEER MAZIN S. IBRAHIM No. C69896 Exp. 09/30/14 CIVIL
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

LEGEND:

- Indicates existing.
- ⇒ Indicates direction of traffic.
- ▨ Indicates limits of prepare concrete bridge deck surface and treat existing bridge with high molecular weight methacrylate. Prior to bridge deck treatment, remove unsound concrete and patch with rapid setting concrete, as directed by the Engineer.
- Indicates location of existing joint seal removal, clean expansion joint and placement of new joint seal. See "JOINT SEAL DETAILS" sheet. For joint spall repair detail and notes, see "JOINT SEAL DETAILS" sheet.



DULZURA CREEK

Br No. 57-0241, Rte 94, PM 24.66
No Scale

DULZURA CREEK #57-0241 QUANTITIES

| | |
|--|------------|
| PUBLIC SAFETY PLAN | LUMP SUM |
| PREPARE CONCRETE BRIDGE DECK SURFACE | 4,680 SQFT |
| TREAT BRIDGE DECK | 4,680 SQFT |
| FURNISH BRIDGE DECK TREATMENT MATERIAL | 59 GAL |

WAITE DRIVE UC #57-0305 QUANTITIES

| | |
|--------------------------------|--------|
| RAPID SETTING CONCRETE (PATCH) | 4 CF |
| REMOVE UNSOUND CONCRETE | 4 CF |
| CLEAN EXPANSION JOINT | 740 LF |
| JOINT SEAL (MR 1/2") | 718 LF |
| JOINT SEAL (TYPE AL) | 22 LF |

WAITE DRIVE UC
Br No. 57-0305, Rte 94, PM 8.77
No Scale

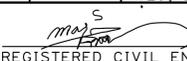
NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

| | | | | | |
|----------------------------------|------------|------------------|------------------------|--------------------|--|
| TONY D. BRAKE DESIGN ENGINEER | DESIGN | BY Mazin Ibrahim | CHECKED Mehran Sajjadi | LOAD FACTOR DESIGN | LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD |
| | DETAILS | BY Clayton Tom | CHECKED Mazin Ibrahim | LAYOUT | BY Clayton Tom |
| | QUANTITIES | BY Mazin Ibrahim | CHECKED Mehran Sajjadi | SPECIFICATIONS | BY Bryan Nagid |

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

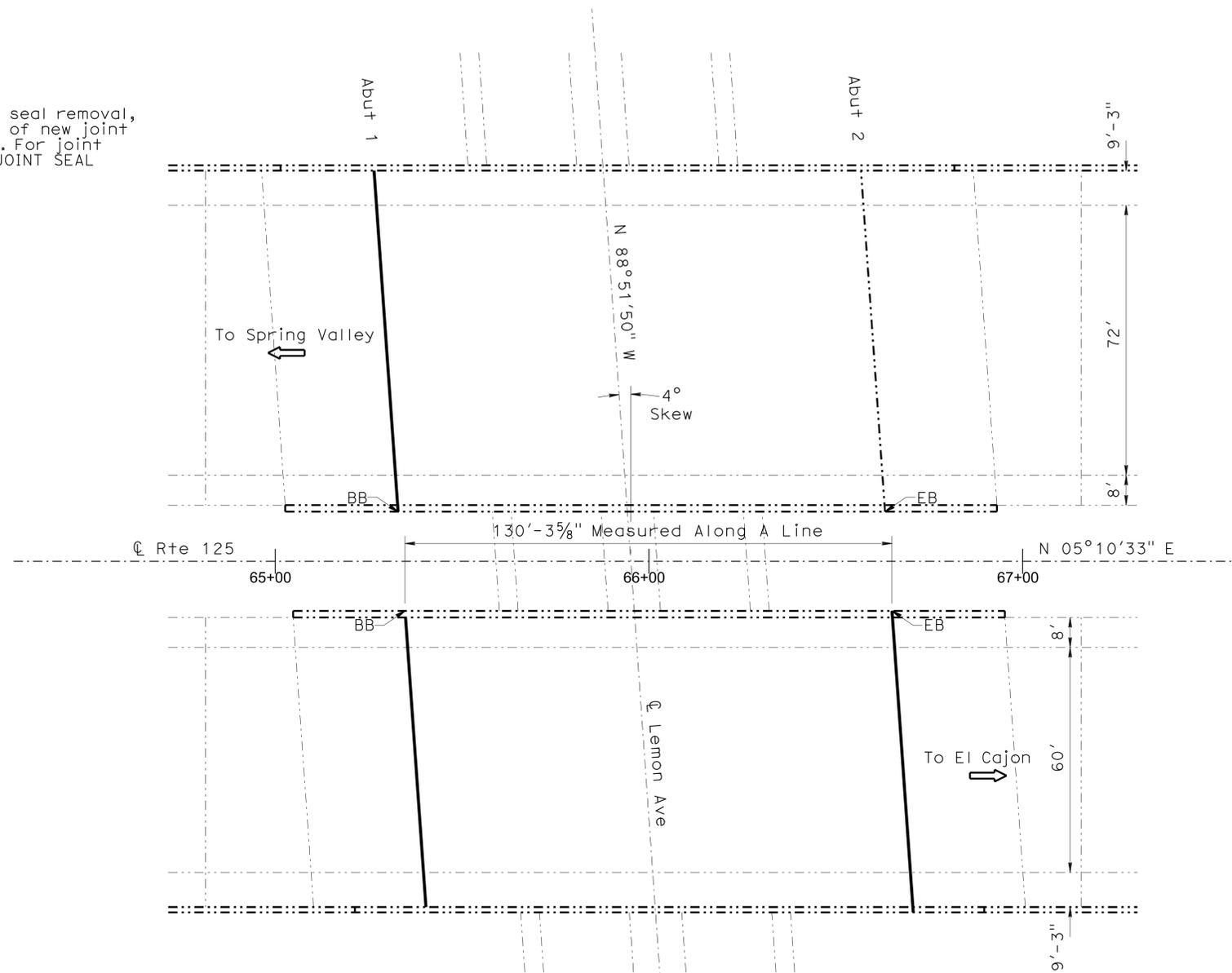
DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies
ROUTES 8, 52, 94, 125 & 805 BRIDGES
GENERAL PLAN NO. 6

| | | | | | |
|---|--------|---------------------|---|-----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 11 | SD | 8, 52, 94, 125, 805 | Var | 31 | 36 |
|  REGISTERED CIVIL ENGINEER DATE 11-20-12 | | |  | | |
| PLANS APPROVAL DATE 02-25-13 | | | | | |
| <small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small> | | | | | |

LEGEND:

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LEMON AVENUE UC

Br No. 57-0311L/R, Rte 125, PM 14.74
No Scale



LEMON AVENUE UC #57-0311L/R

QUANTITIES

| | |
|--------------------------------|--------|
| RAPID SETTING CONCRETE (PATCH) | 3 CF |
| REMOVE UNSOUND CONCRETE | 3 CF |
| CLEAN EXPANSION JOINT | 249 LF |
| JOINT SEAL (MR 1") | 249 LF |

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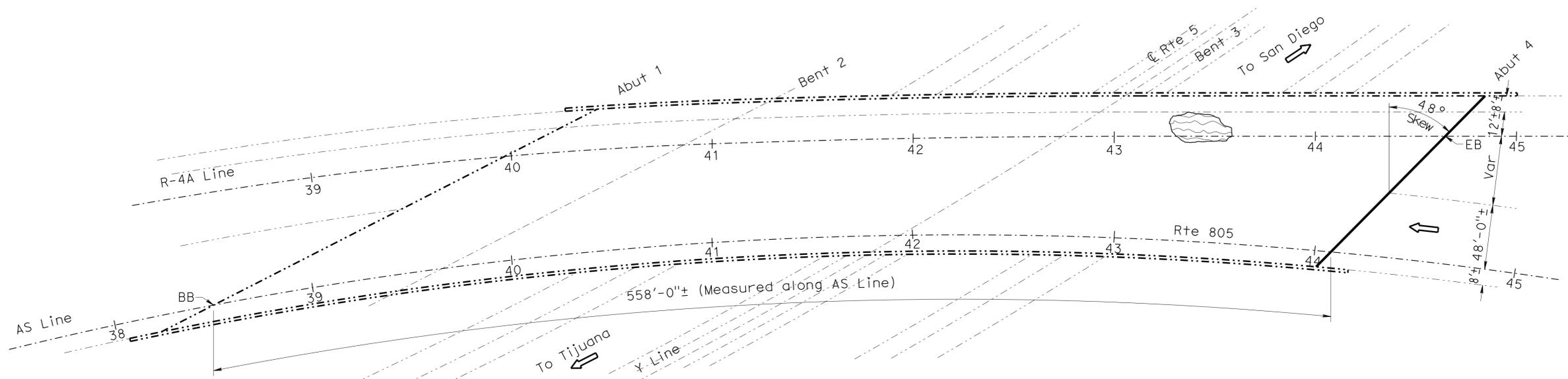
| | | | | | | | | | |
|---|------------|--|------------------------|---|--|---|--------------------------|--|---------|
|  DESIGN ENGINEER | DESIGN | BY Mazin Ibrahim | CHECKED Mehran Sajjadi | LOAD FACTOR DESIGN | LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | BRIDGE NO. | ROUTES 8,52,94,125 & 805 BRIDGES GENERAL PLAN NO. 7 | |
| | DETAILS | BY Clayton Tom | CHECKED Mazin Ibrahim | LAYOUT | BY Clayton Tom | | POST MILE | | Various |
| | QUANTITIES | BY Mazin Ibrahim | CHECKED Mehran Sajjadi | SPECIFICATIONS | BY Bryan Nagid | | PLANS AND SPECS COMPARED | | Varies |
| STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10) | | ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | | UNIT: 3489 PROJECT NUMBER & PHASE: 1112000027 1 CONTRACT NO.: 11-2M5201 | | DISREGARD PRINTS BEARING EARLIER REVISION DATES | | REVISION DATES 07-13-12 08-22-12 11-16-12 11-20-12 SHEET 07 OF 12 | |

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|---------------------|--------------------------|-----------|--------------|
| 11 | SD | 8, 52, 94, 125, 805 | Var | 32 | 36 |

REGISTERED CIVIL ENGINEER DATE 11-20-12
 PLANS APPROVAL DATE 02-25-13
 No. C69896
 Exp. 09/30/14
 CIVIL
 STATE OF CALIFORNIA
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LEGEND:

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- ⇒ Indicates direction of traffic.
- Indicates location of existing joint seal removal, clean expansion joint and placement of new joint seal. See "JOINT SEAL DETAILS" sheet. For joint spall repair detail and notes, see "JOINT SEAL DETAILS" sheet.
- ▤ Indicates location to patch deck PCC spalls with rapid set concrete. See "DECK REPAIR DETAILS" sheet.



S805/5 SEPARATION

Br No. 57-0839F, Rte 805, PM 0.50
No Scale

S805/5 SEPARATION #57-0839F

QUANTITIES

| | |
|--------------------------------|--------|
| RAPID SETTING CONCRETE (PATCH) | 1 CF |
| REMOVE UNSOUND CONCRETE | 1 CF |
| CLEAN EXPANSION JOINT | 161 LF |
| JOINT SEAL (MR 1") | 161 LF |

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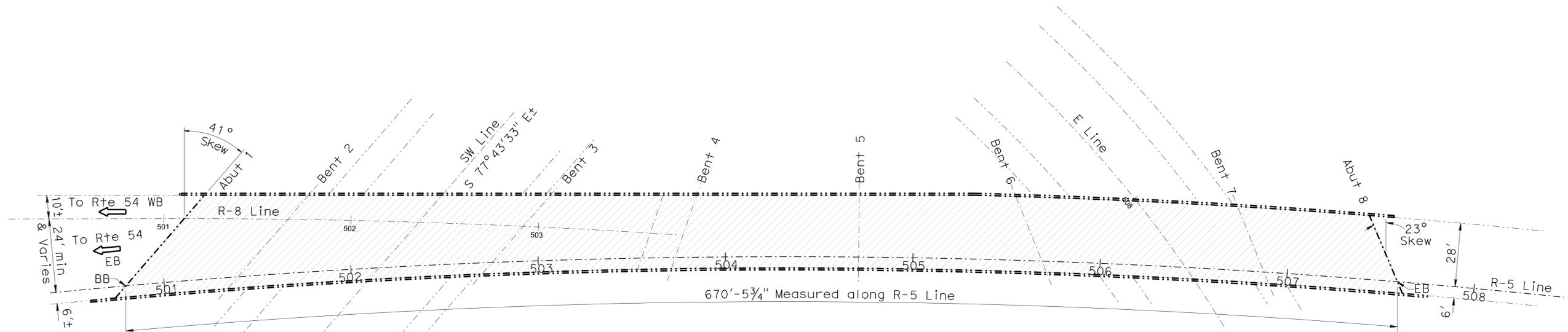
| | | | | | | | | | | | | | |
|---|------------|------------------|------------------------|--------------------|--|---|-----------------------|--|-------------------------|---|----------------|----------|-------|
| TONY D. BRAKE DESIGN ENGINEER | DESIGN | BY Mazin Ibrahim | CHECKED Mehran Sajjadi | LOAD FACTOR DESIGN | LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | BRIDGE NO. | ROUTES 8,52,94,125 & 805 BRIDGES GENERAL PLAN NO. 8 | | | | | |
| | DETAILS | BY Clayton Tom | CHECKED Ramesh Patel | LAYOUT | BY Clayton Tom | | CHECKED Mazin Ibrahim | | POST MILE | | | | |
| | QUANTITIES | BY Mazin Ibrahim | CHECKED Mehran Sajjadi | SPECIFICATIONS | BY Bryan Nagid | | CHECKED Karla Meier | | Varies | | | | |
| STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10) | | | | | | ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | UNIT: 3489 | PROJECT NUMBER & PHASE: 1112000027 1 | CONTRACT NO.: 11-2M5201 | DISREGARD PRINTS BEARING EARLIER REVISION DATES | REVISION DATES | SHEET 08 | OF 12 |

| | | | | | |
|------|--------|---------------------|--------------------------|-----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 11 | SD | 8, 52, 94, 125, 805 | Var | 33 | 36 |

REGISTERED CIVIL ENGINEER DATE 11-20-12
 PLANS APPROVAL DATE 02-25-13
 No. C69896
 Exp. 09/30/14
 CIVIL
 STATE OF CALIFORNIA
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LEGEND:

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S805-E&W54 CONNECTOR OC

Br No. 57-0640F, Rte 805, PM 9.07
No Scale

S805-E&W54 CONNECTOR OC #57-0640F
QUANTITIES

| | |
|--|-------------|
| PUBLIC SAFETY PLAN | LUMP SUM |
| PREPARE CONCRETE BRIDGE DECK SURFACE | 24,120 SQFT |
| TREAT BRIDGE DECK | 24,120 SQFT |
| FURNISH BRIDGE DECK TREATMENT MATERIAL | 302 GAL |

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

| | | | | | | | | | |
|---|------------|------------------|------------------------|--------------------|--|--|-----------------------|--|-----------|
| TONY D. BRAKE DESIGN ENGINEER | DESIGN | BY Mazin Ibrahim | CHECKED Mehran Sajjadi | LOAD FACTOR DESIGN | LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | BRIDGE NO. | ROUTES 8,52,94,125 & 805 BRIDGES GENERAL PLAN NO. 9 | |
| | DETAILS | BY Clayton Tom | CHECKED Ramesh Patel | LAYOUT | BY Clayton Tom | | CHECKED Mazin Ibrahim | | POST MILE |
| | QUANTITIES | BY Mazin Ibrahim | CHECKED Mehran Sajjadi | SPECIFICATIONS | BY Bryan Nagid | | CHECKED Karla Meier | | Varies |

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

UNIT: 3489
PROJECT NUMBER & PHASE: 1112000027 1 CONTRACT NO.: 11-2M5201

DISREGARD PRINTS BEARING EARLIER REVISION DATES

| | | |
|-------------------------------------|-------|----|
| REVISION DATES | SHEET | OF |
| 07-13-12 08-22-12 11-16-12 11-20-12 | 09 | 12 |

FILE => 11-2m5201-a-gp09.dgn

USERNAME => s127400 DATE PLOTTED => 25-FEB-2013 TIME PLOTTED => 15:40

JOINT SEAL TABLE

| BRIDGE NAME | BRIDGE NUMBER | JOINT SEAL LOCATION | MINIMUM "MR" (inches) | EXISTING WATERSTOP | APPROX LENGTH (ft) | APPROX DEPTH TO CLEAN EXP JOINT (inches) | REMOVE UNSOUND CONCRETE (CU FT) | RAPID SETTING CONCRETE (PATCH) (CU FT) |
|-------------------------------------|---------------|---------------------|-----------------------|--------------------|--------------------|--|---------------------------------|--|
| First Street UC | 57-0378 | Abut 1 | 1/2 | No | 48 | 6 | 1 | 1 |
| | | Abut 2 | 1/2 | No | 48 | 6 | 1 | 1 |
| Route 8/79 Sep | 57-0689L | Abut 1 | 1/2 | Yes | 45 | 8 | 1 | 1 |
| | | Abut 2 | 1/2 | Yes | 45 | 8 | 1 | 1 |
| *Spring Canyon | 57-0982L | Abut 4 | 4 | No | 51 | 12 | - | - |
| Route 94/805 Sep | 57-0665R | Abut 1 | 1 1/2 | Yes | 70 | 8 | 1 | 1 |
| | | Abut 3 | 1 1/2 | Yes | 70 | 8 | 1 | 1 |
| W94-N805/N805-Home Ave Off-Ramp Sep | 57-0670F | Abut 1 | 1 1/2 | No | 24 | 6 | 1 | 1 |
| | | Abut 4 | 1 1/2 | No | 24 | 6 | 1 | 1 |
| Waite Drive UC | 57-0305 | Abut 1 | 1/2 | Yes | 227 | 8 | 1 | 1 |
| | | Abut 1 | Type AL | No | 14 | 8 | - | - |
| | | Bent 2 | 1/2 | Yes | 143 | 8 | 1 | 1 |
| | | Bent 3 | 1/2 | Yes | 175 | 8 | 1 | 1 |
| | | Abut 4 | 1/2 | Yes | 173 | 8 | 1 | 1 |
| Lemon Ave UC | 57-0311L | Abut 1 | 1 | No | 91 | 6 | 1 | 1 |
| | | Abut 2 | 1 | No | 79 | 6 | 1 | 1 |
| Lemon Ave UC | 57-0311R | Abut 1 | 1 | No | 79 | 6 | 1 | 1 |
| | | Abut 2 | 1 | No | 79 | 6 | 1 | 1 |
| S805/5 Sep | 57-0839F | Abut 4 | 1 | Yes | 161 | 8 | 1 | 1 |

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|---------------------|--------------------------|-----------|--------------|
| 11 | SD | 8, 52, 94, 125, 805 | Var | 34 | 36 |

11-20-12
 REGISTERED CIVIL ENGINEER DATE

02-25-13
 PLANS APPROVAL DATE

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JOINT SEAL NOTES:

The following notes apply to JOINT SEAL TYPE A:

Install Type A Joint Seal 3 inches up into curb or rail on the low side of the deck where deck joint matches sidewalk, curb, or barrier rail joint.

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.

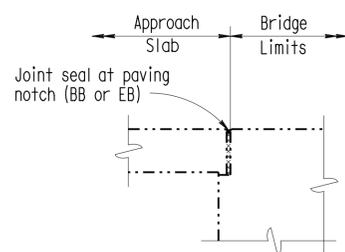
3) W1 shall be the smaller of the values determined as follows:
 A) 0.85 times the manufacturer's designed minimum uncompressed width of the seal.
 B) The width of the seal on the third successive test cycle of the pressure deflection test, when compressed to an average pressure of 3 psi.

4) Bend Type B joint seal 6 inches up into curb or rail on the low side of the deck where deck joint matches sidewalk, curb, or barrier rail joint.

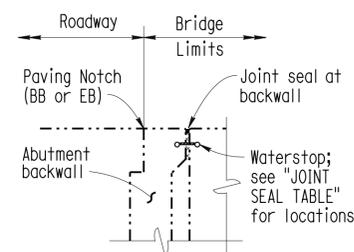
JOINT SPALL REPAIR NOTES:

- Reinforcement may be encountered during removal of unsound concrete.
- Existing reinforcement shall be protected in place during removal of unsound concrete and patching operations.
- It is the responsibility of the contractor to repair any reinforcement that is damaged 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.

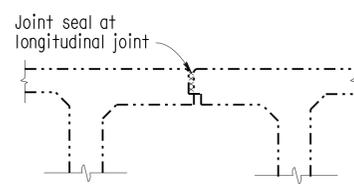
* Joint Seal Assembly



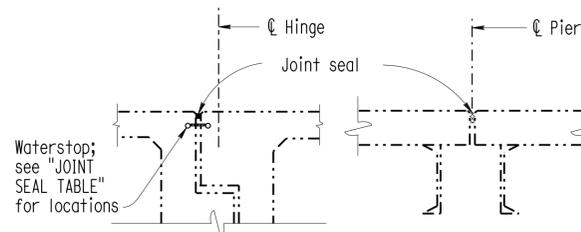
DIAPHRAGM ABUTMENT



ABUTMENT WITH BACKWALL



LONGITUDINAL JOINT

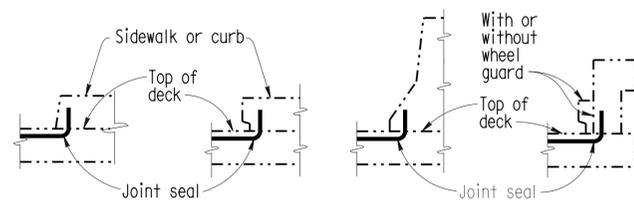


HINGE

PIER

JOINT SEAL AT LOCATION

NO SCALE

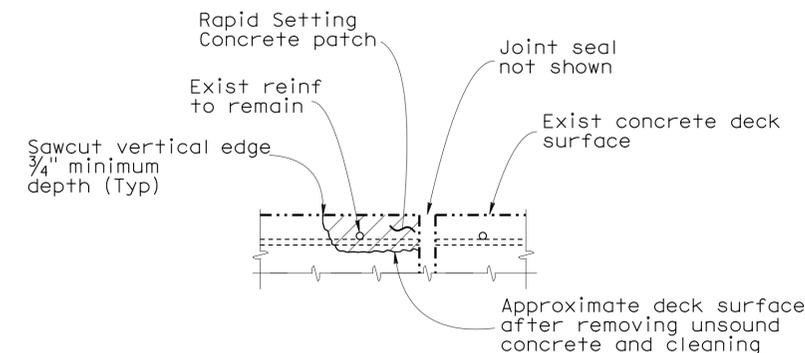


SIDEWALK OR CURB

BARRIER RAIL

JOINT SEAL AT LOW SIDE OF DECK

Details shown for illustration purpose only. For use only where deck joint matches the barrier rail joint.
NO SCALE



JOINT SPALL REPAIR DETAIL

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

| | | |
|------------|------------------|------------------------|
| DESIGN | BY Mazin Ibrahim | CHECKED Mehran Sajjadi |
| DETAILS | BY Clayton Tom | CHECKED Mazin Ibrahim |
| QUANTITIES | BY Mazin Ibrahim | CHECKED Mehran Sajjadi |

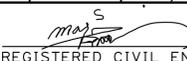
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

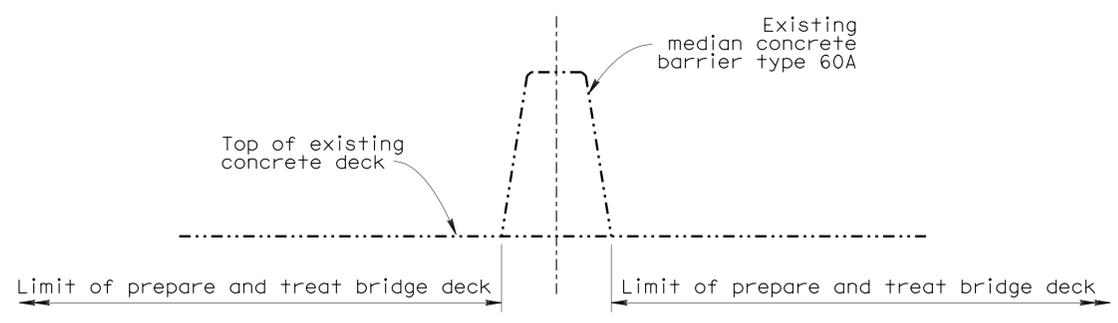
DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

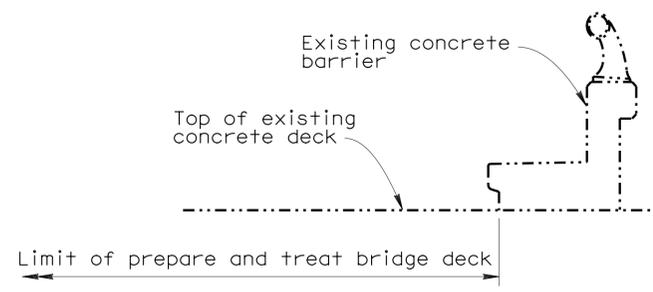
ROUTES 8, 52, 94, 125 & 805 BRIDGES

JOINT SEAL DETAILS

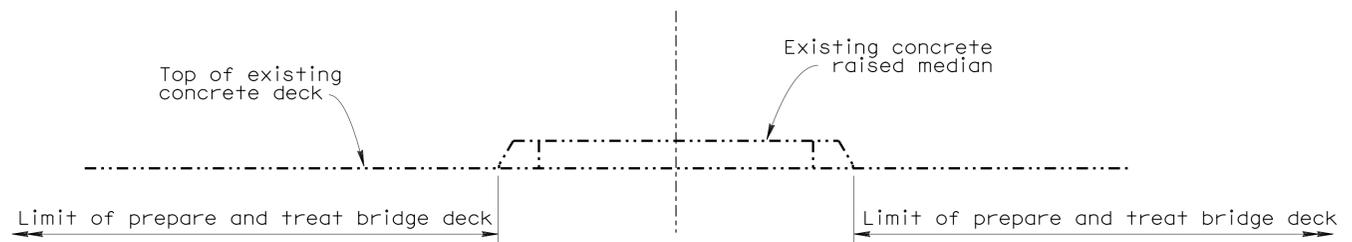
| | | | | | |
|---|--------|---------------------|--------------------------|-----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 11 | SD | 8, 52, 94, 125, 805 | Var | 35 | 36 |
|  | | | 11-20-12 | | |
| REGISTERED CIVIL ENGINEER | | | DATE | | |
| 02-25-13 | | | PLANS APPROVAL DATE | | |
|  | | | | | |
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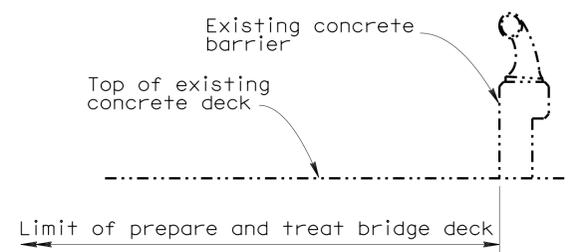
MEDIAN BARRIER



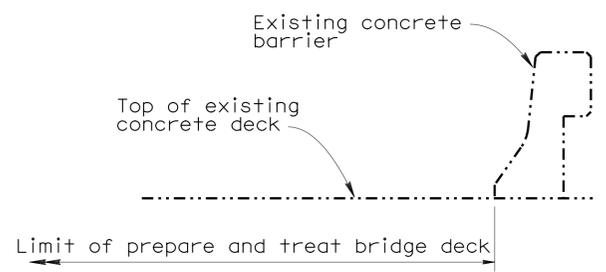
SIDEWALK BARRIER TYPE 2



RAISED MEDIAN



SIDEWALK BARRIER TYPE 1



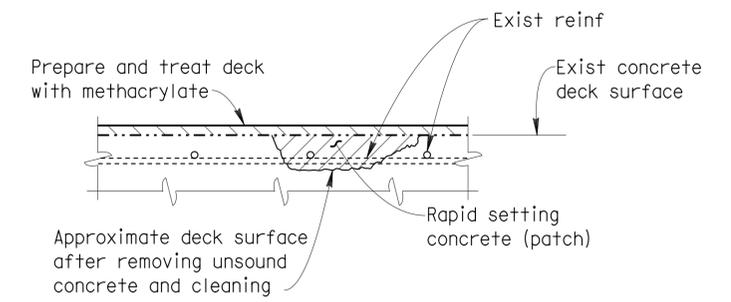
EOD BARRIER

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.

TYPICAL LIMITS OF DECK WORK

NO SCALE

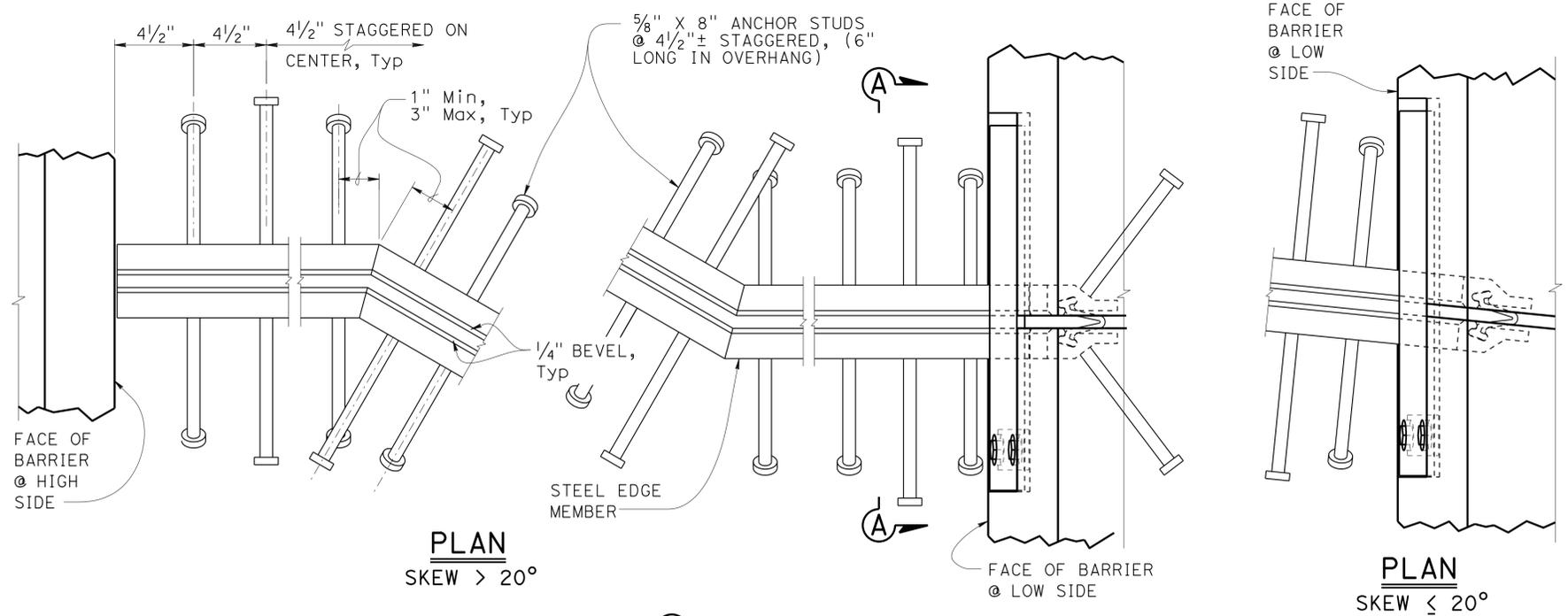


DECK REPAIR DETAIL

NO SCALE

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

| | | | | | | | | |
|---|------------|-------------------|-----------------------|---|---|------------|---------|-------------------------------------|
| STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 09-01-10) | DESIGN | BY Mazin Ibrahim | CHECKED Ramesh Patel | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN | BRIDGE NO. | Various | ROUTES 8, 52, 94, 125 & 805 BRIDGES |
| | DETAILS | BY Clayton Tom | CHECKED Mazin Ibrahim | | | POST MILE | | |
| | QUANTITIES | BY Mazin IbrahimX | CHECKED Ramesh Patel | | | Varies | | |

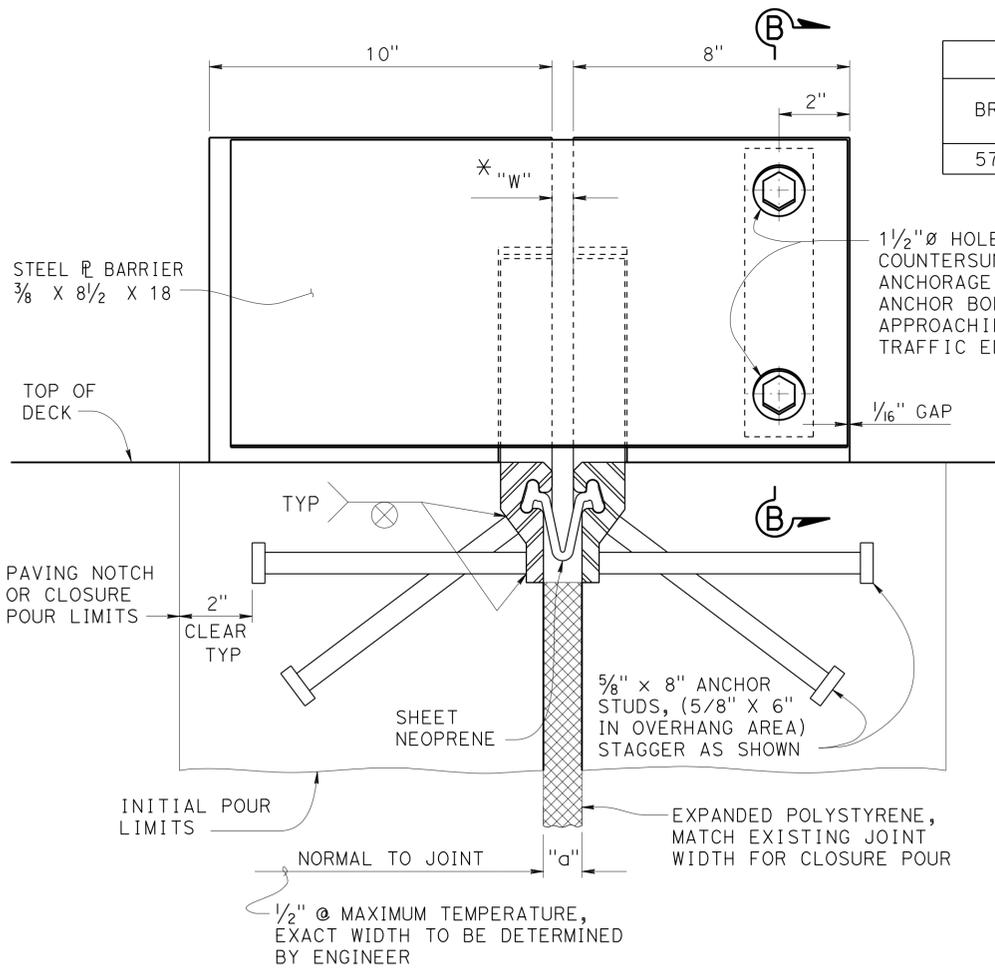


STEEL EDGE MEMBER

NOTES:

- Alternatively, fillet or full penetration welds may be used at anchor studs.
- Alternate types of anchor studs may be permitted subject to the approval by the Engineer
- Joint seal assembly to be used in conjunction with closure pour. (See other sheets for limits). Closure pour shall not be placed until final deck surface is within the tolerances specified
- Use joint at crown of roadway, at any change in traverse slope in deck and at changes in horizontal direction. Place other joints at or near lanes. All metal parts to be painted or galvanized after fabrication
- Sheet Neoprene shall be fabricated in one continuous piece and shall be fabricated to bend around corners. Field splices of the neoprene are not allowed.
- Insert assembly or expansion anchorage for 5/8" x 1 3/4" bolts. Use installation bolts extended 1/2" minimum past nut and coat with bond breaker, after concrete has cured, remove installation bolts, install A325 bolts and sheet neoprene
- Sidewalk Detail similar to Barrier Detail on low side at both sides if the roadway is crowned or if the difference in elevation between the ends of the seal is 0.5' or less
- a_c, a_s , are the thermal expansion coefficients for concrete and steel respectively.

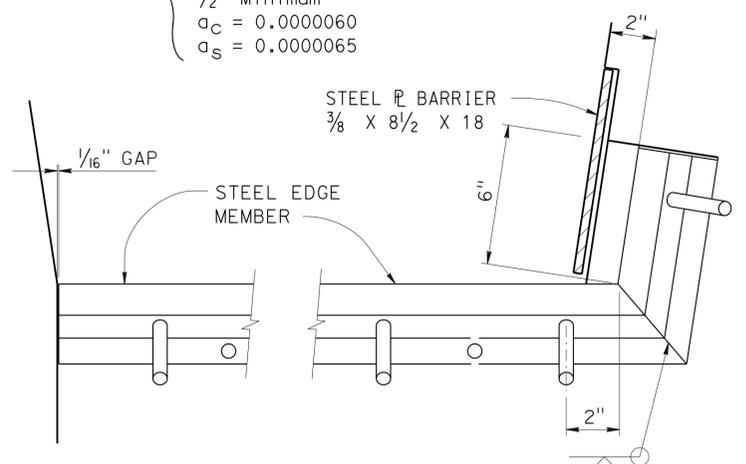
| BRIDGE NO. | LOCATION | MOVEMENT RATING (MR) | SKEW | "a" DIMENSIONS | | |
|------------|----------|----------------------|------|----------------|---------------|--------|
| | | | | WINTER | SPRING & FALL | SUMMER |
| 57-0982L | ABUT 4 | 4" | 0 | 1 7/8" | 7/8" | 1 3/8" |



SECTION A-A

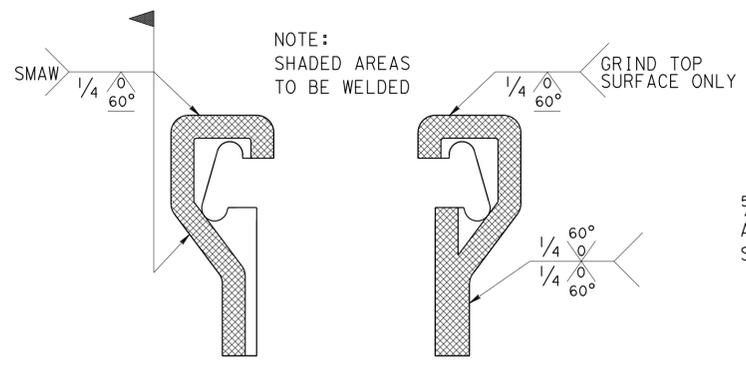
* TO SET MINIMUM JOINT OPENING "W"

$$"W" = \begin{cases} \frac{1}{2} + [(Max\ Str\ temperature\ in\ F^\circ) - (actual\ Str\ temperature\ in\ F^\circ)] * (a_c\ or\ a_s) * (12) * (contributory\ L\ in\ feet) \\ \frac{1}{2} \text{ Minimum} \\ a_c = 0.0000060 \\ a_s = 0.0000065 \end{cases}$$



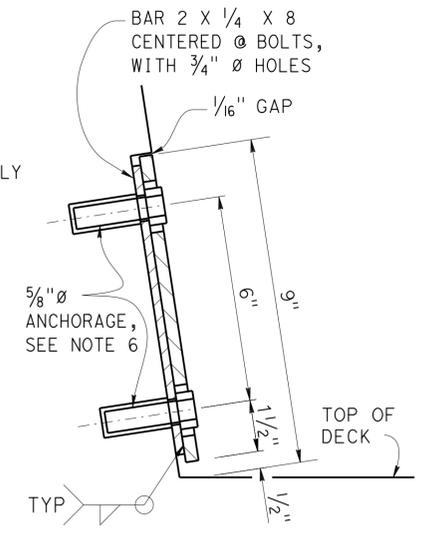
BARRIER DETAIL HIGH SIDE

BARRIER DETAIL LOW SIDE



FIELD WELD DETAIL

SHOP WELD DETAIL



SECTION B-B

ROUTES 8, 52, 94, 125 & 805 BRIDGES

JOINT SEAL ASSEMBLY
MAXIMUM MOVEMENT RATING = 4"

STANDARD DRAWING
 FILE NO. **xs8-010**
 APPROVAL DATE June 2012

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 BRIDGE NO. 57-0982L
 POST MILE 12.40

NO SCALE
 PROJECT NUMBER & PHASE: 1112000027 1
 CONTRACT NO.: 11-2M5201
 REVISION DATES: 2/15/12, 2/22/12, 5/28/12, 6/21/12
 SHEET 12 OF 12