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| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 04 | Ala | 580, 680 | Var | 101 | 143 |

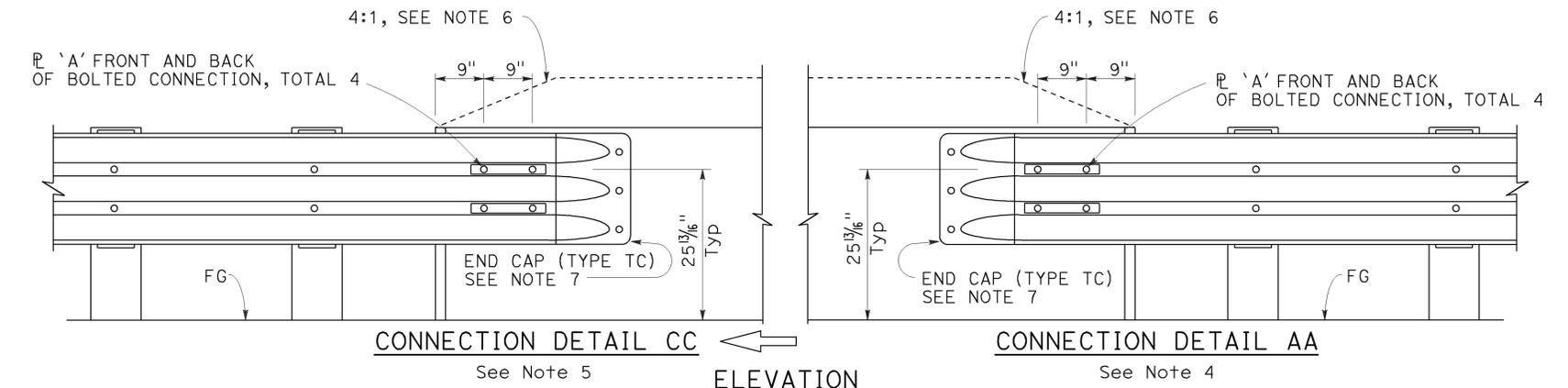
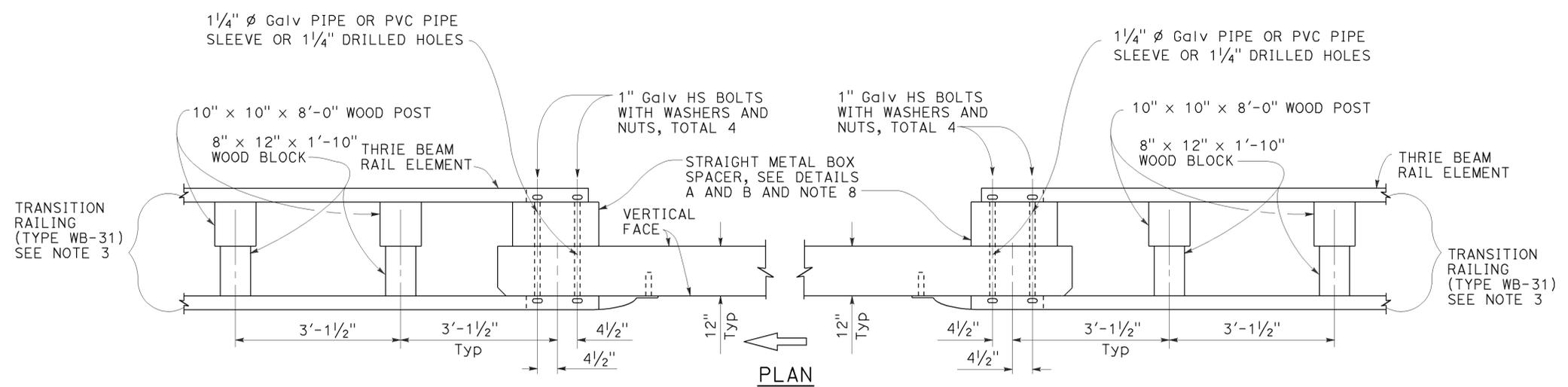
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
No. C50200
Exp. 6-30-15
CIVIL
STATE OF CALIFORNIA

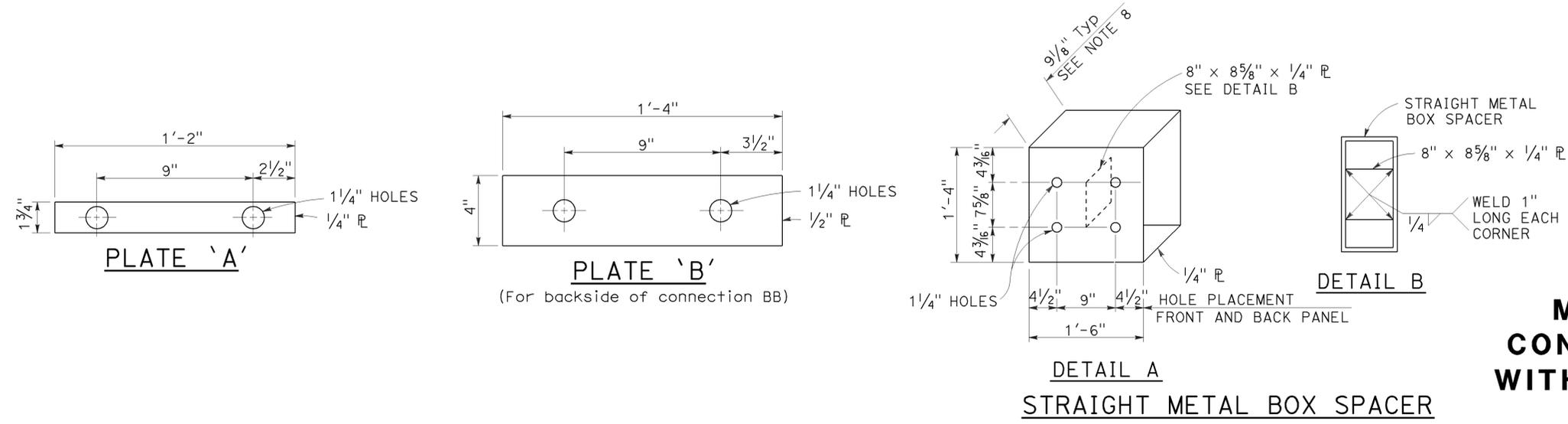
TO ACCOMPANY PLANS DATED 3-30-15



MIDWEST GUARDRAIL SYSTEM CONNECTION TO BRIDGE RAILING WITHOUT SIDEWALK

NOTES:

1. See Revised Standard Plan RSP A77U1 for additional connection details to bridges without sidewalks.
2. Additional details of posts, blocks and hardware are shown on Revised Standard Plans RSP A77M1, RSP A77N1 and RSP A77N2.
3. For additional details of Transition Railing (Type WB-31), see Revised Standard Plan RSP A77U4. Transition Railing (Type WB-31) transitions the 12 gauge MGS railing section to a heavier gage nested thrie beam railing section which is connected to the concrete bridge railing.
4. For typical use of Connection Detail AA, see Layout Types 12A and 12B on Revised Standard Plan RSP A77Q1, Layout Types 12C and 12D on Revised Standard Plan RSP A77Q2, and Layout Type 12E on Revised Standard Plan RSP A77Q3.
5. For typical use of Connection Detail CC, see Layout Types 12AA and 12BB on Revised Standard Plan RSP A77Q4 and Layout Type 12CC on Revised Standard Plan RSP A77Q5.
6. Where the height of the bridge railing exceeds the height of the thrie beam railing by more than 1" at Connection Detail AA and connection Detail CC, taper the top of the end of the bridge railing at 4:1 to match the top elevation of the thrie beam railing.
7. For details of End Cap (Type TC), see Revised Standard Plan RSP A77U4.
8. See Revised Standard Plan RSP A77U4 for additional details regarding depth dimension for straight metal box spacer.



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**MIDWEST GUARDRAIL SYSTEM
CONNECTIONS TO BRIDGE RAILINGS
WITHOUT SIDEWALKS DETAILS No. 2**

NO SCALE

RSP A77U2 DATED JULY 19, 2013 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A77U2

2010 REVISED STANDARD PLAN RSP A77U2

| | | | | | |
|------|--------|----------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 04 | Ala | 580, 680 | Var | 102 | 143 |

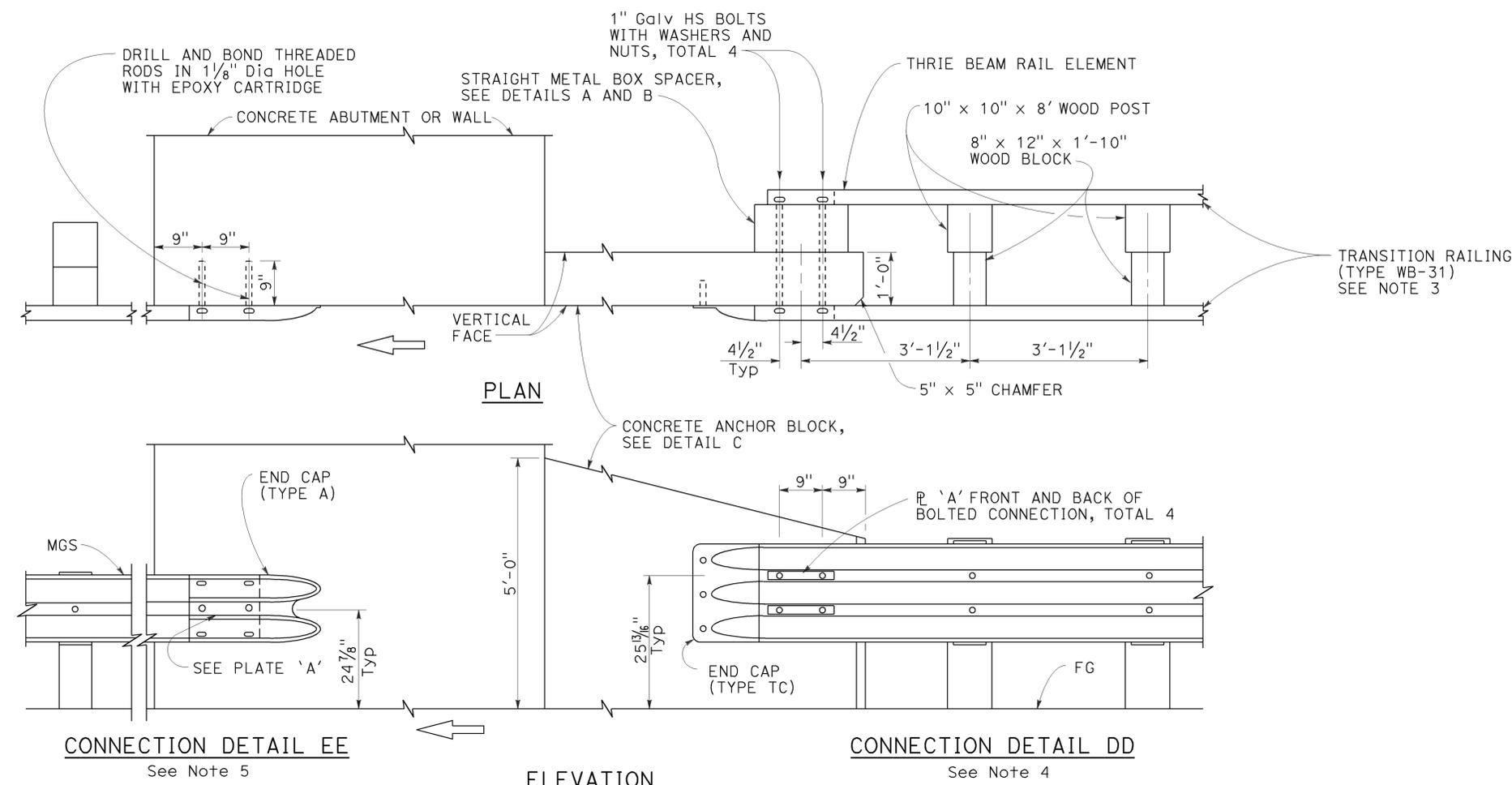
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-15
CIVIL
STATE OF CALIFORNIA

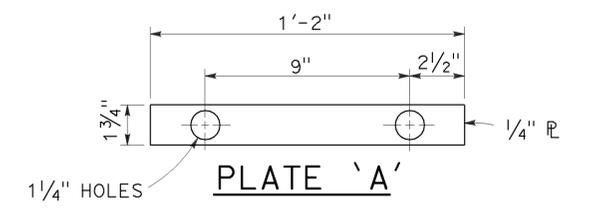
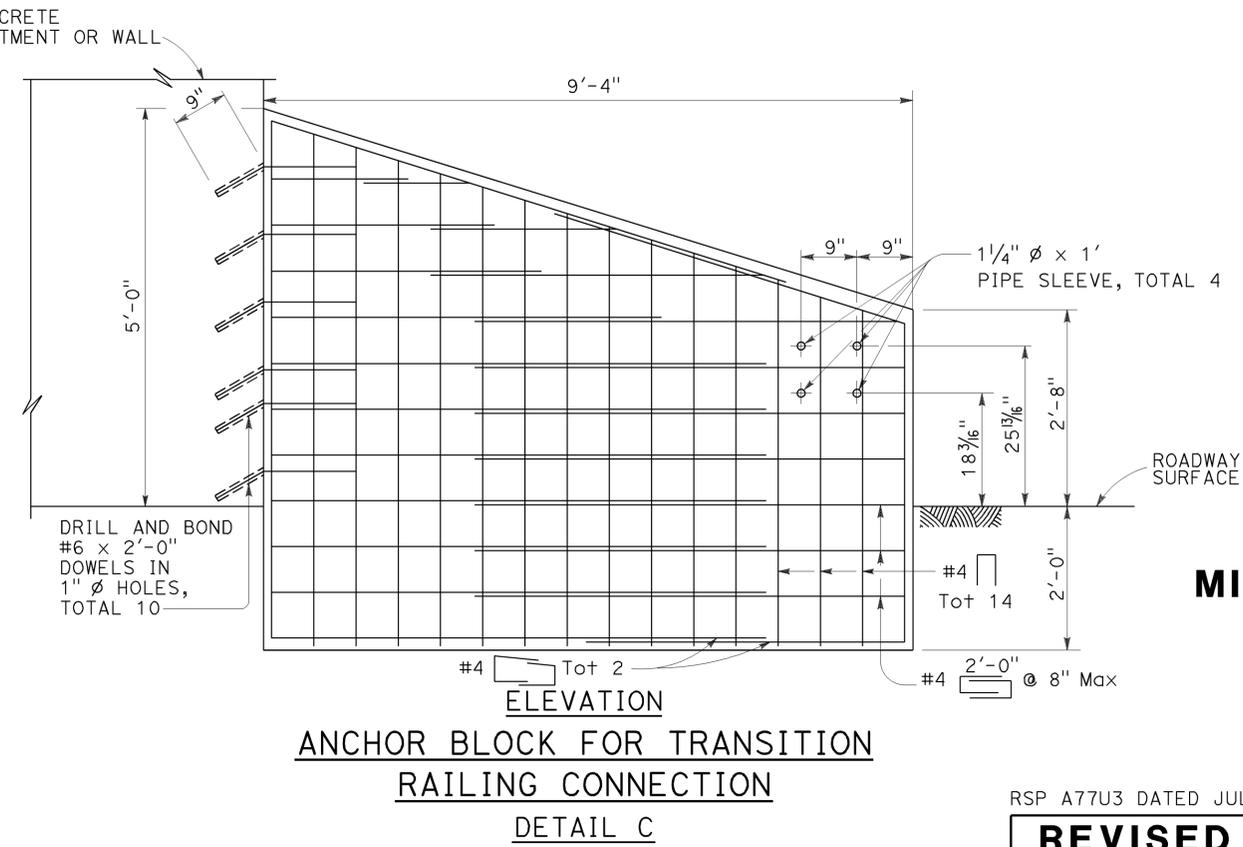
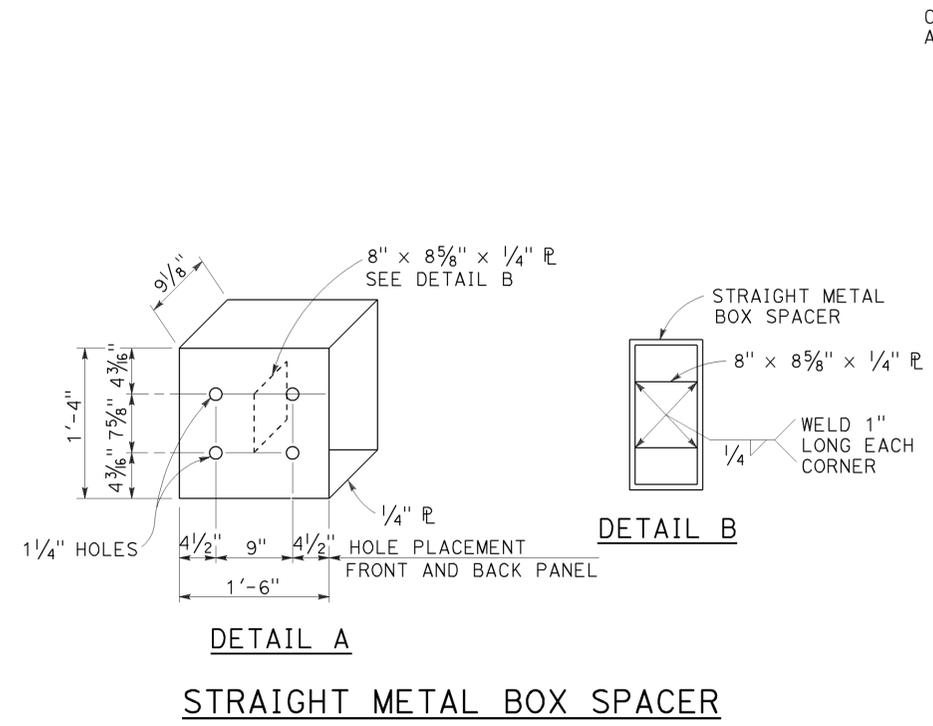
TO ACCOMPANY PLANS DATED 3-30-15



NOTES:

1. These connection details apply to abutments and walls.
2. Additional details of posts, blocks and hardware are shown on Revised Standard Plans RSP A77M1, RSP A77N1 and RSP A77N2.
3. For additional details of Transition Railing (Type WB-31), see Revised Standard Plan RSP A77U4. Transition Railing (Type WB-31) transitions the 12 gauge MGS railing section to a heavier gage nested thrie beam railing section which is connected to the concrete anchor block.
4. For typical use of Connection Details DD, see Layout Types 12A and 12B on Revised Standard Plan RSP A77Q1 and Layout Types 12C and 12D on Revised Standard Plan RSP A77Q2.
5. For typical use of Connection Detail EE, see Layout Type 12D on Revised Standard Plan RSP A77Q2 and Layout Type 12DD on Revised Standard Plan RSP A77Q5.

MIDWEST GUARDRAIL SYSTEM CONNECTION TO ABUTMENT OR WALL



MIDWEST GUARDRAIL SYSTEM CONNECTIONS TO ABUTMENTS AND WALLS

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

NO SCALE

RSP A77U3 DATED JULY 19, 2013 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A77U3

2010 REVISED STANDARD PLAN RSP A77U3

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|----------|--------------------------|-----------|--------------|
| 04 | Ala | 580, 680 | Var | 104 | 143 |

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

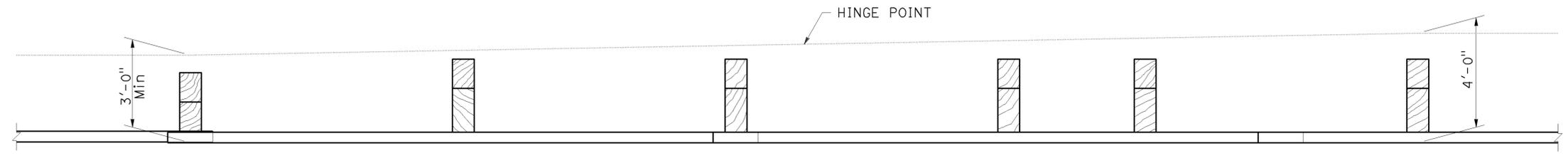
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Randell D. Hiatt
No. C50200
Exp. 6-30-15
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STATE OF CALIFORNIA

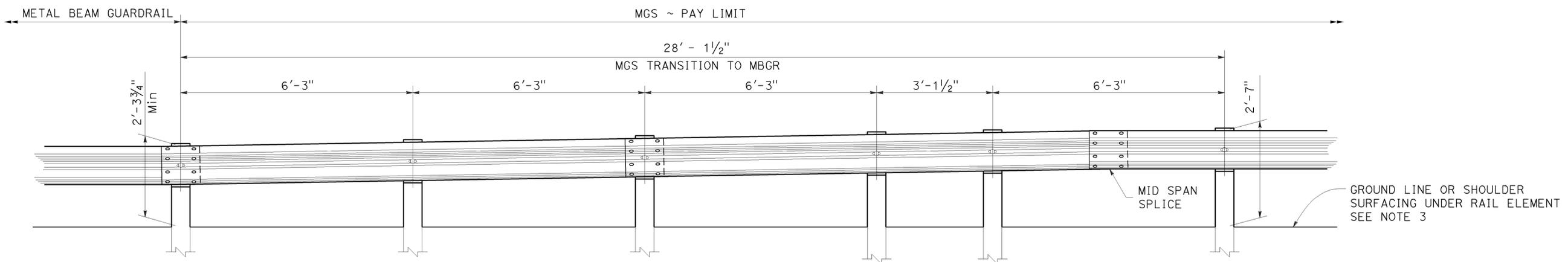
TO ACCOMPANY PLANS DATED 3-30-15

NOTES:

1. Refer to Revised Standard Plans RSP A77L1 and RSP A77L2 for component details for MGS not shown on this plan.
2. All posts for any standard barrier run shall be of the same type: Wood or Steel.
3. Install posts in soil.



PLAN



ELEVATION

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**MIDWEST GUARDRAIL SYSTEM
TRANSITION TO METAL BEAM GUARDRAIL**

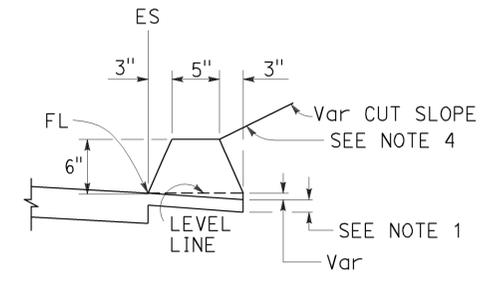
NO SCALE

RSP A77U5 DATED JULY 19, 2013 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

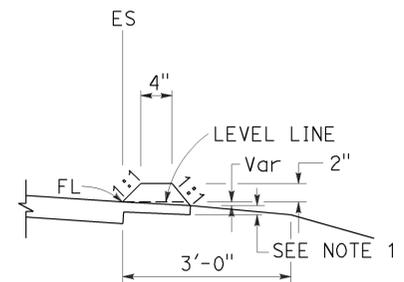
REVISED STANDARD PLAN RSP A77U5

2010 REVISED STANDARD PLAN RSP A77U5

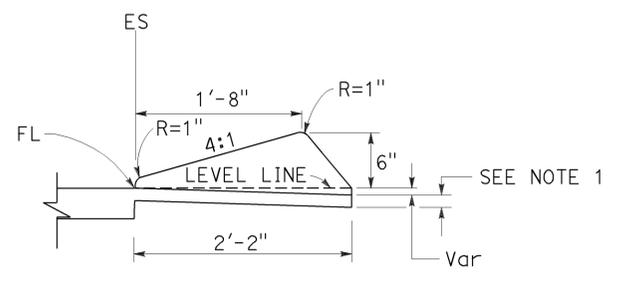
TO ACCOMPANY PLANS DATED 3-30-15



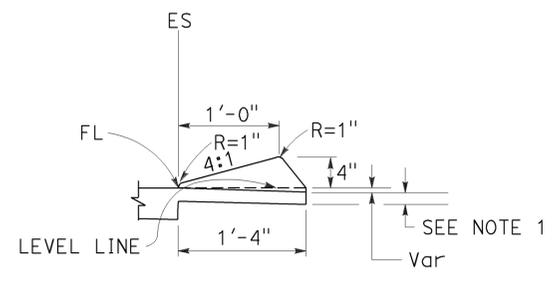
TYPE A
See Note 3



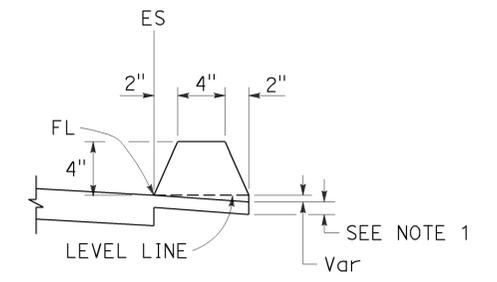
TYPE C



TYPE D

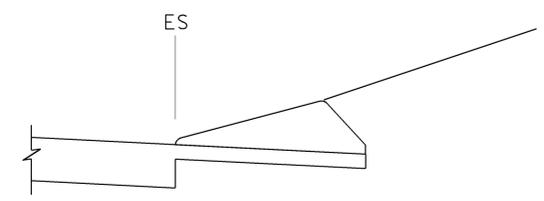


TYPE E

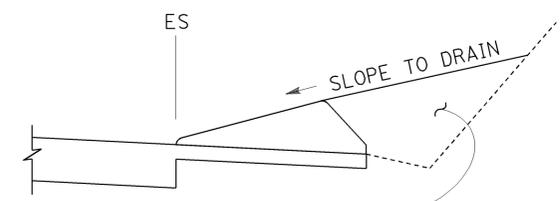


TYPE F
See Note 5

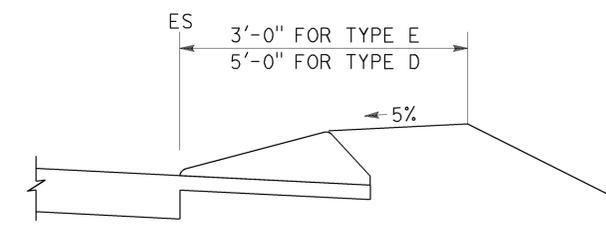
DIKES



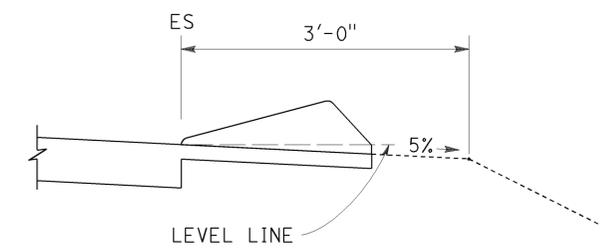
CASE C-1
Cut Slope



CASE C-2
Cut Slope



CASE F



CASE R
See Note 2

TYPE D AND E BACKFILL DETAILS

NOTES:

1. For HMA shoulders only, extend top layer of HMA placed on the shoulder under dike with no joint at the ES. For projects with OGFC shoulders, do not extend OGFC under dike. See project plans for modified dike detail.
2. Case R applies to retrofit only projects where restrictive conditions do not provide enough width for Case F backfill.
3. Type A dike only to be used where restrictive slope conditions do not provide enough width to use Type D or Type E dike.
4. Fill and compact with excavated material to top of dike.
5. Use Type F dike, where dike is required with guard railing installations. See Revised Standard Plan RSP A77N4 for dike positioning details.

DIKE QUANTITIES

| TYPE | CUBIC YARDS PER LINEAR FOOT |
|------|-----------------------------|
| A | 0.0135 |
| C | 0.0038 |
| D | 0.0293 |
| E | 0.0130 |
| F | 0.0066 |

Quantities based on 5% cross slope.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

HOT MIX ASPHALT DIKES

NO SCALE

RSP A87B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A87B DATED MAY 20, 2011 - PAGE 120 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A87B

2010 REVISED STANDARD PLAN RSP A87B

Gregory A. Balzer
 LICENSED LANDSCAPE ARCHITECT

July 19, 2013
 PLANS APPROVAL DATE

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TO ACCOMPANY PLANS DATED 3-30-15

A

AB AGGREGATE BASE
 ABS ACRYLONITRILE-BUTADIENE-STYRENE
 AC ASPHALT CONCRETE
 ACC ARMOR-CLAD CONDUCTORS
 Adj ADJACENT/ADJUSTABLE
 AIC AUXILIARY IRRIGATION CONTROLLER
 Alt ALTERNATIVE
 AMEND AMENDMENT
 ARV AIR RELEASE VALVE
 AUTO AUTOMATIC
 AUX AUXILIARY
 AVB ATMOSPHERIC VACUUM BREAKER

B

B&B BALLED AND BURLAPPED
 B/B BRASS/BRONZE
 B/B/PL BRASS/BRONZE/PLASTIC
 B/PL BRASS/PLASTIC
 BFM BONDED FIBER MATRIX
 Bit Ctd BITUMINOUS COATED
 BP BOOSTER PUMP
 BPA BACKFLOW PREVENTER ASSEMBLY
 BPE BACKFLOW PREVENTER ENCLOSURE
 BV BALL VALVE

C

C CONDUIT
 CAP CORRUGATED ALUMINUM PIPE
 CARV COMBINATION AIR RELEASE VALVE
 CB COUPLING BAND
 CCA CAM COUPLER ASSEMBLY
 CEC CONTROLLER ENCLOSURE CABINET
 CHDPE CORRUGATED HIGH DENSITY POLYETHYLENE
 CL CHAIN LINK
 CNC CONTROL AND NEUTRAL CONDUCTORS
 Conc CONCRETE
 CP COPPER PIPE
 CS COMPOST SOCK
 CSP CORRUGATED STEEL PIPE
 CST CENTER STRIP
 CV CHECK VALVE

D

Dia DIAMETER
 DIP DUCTILE IRON PIPE
 DIT DRIP IRRIGATION TUBING
 DG DECOMPOSED GRANITE
 DN DIAMETER NOMINAL
 DVA DRIP VALVE ASSEMBLY

E

EC EROSION CONTROL
 ECTC EROSION CONTROL TECHNOLOGY COUNCIL
 ElecT ELECTRIC/ELECTRICAL
 Elev ELEVATION
 ELL ELBOW
 ENCL ENCLOSURE
 EP EDGE OF PAVEMENT
 ES EDGE OF SHOULDER
 EST END STRIP
 ESTB ESTABLISHMENT
 ETW EDGE OF TRAVELED WAY

F

F FULL CIRCLE
 F/P FULL/PART CIRCLE
 FCV FLOW CONTROL VALVE
 FERT FERTILIZER
 FG FINISHED GRADE
 FH FLEXIBLE HOSE
 FIPT FEMALE IRON PIPE THREAD
 FIS FERTILIZER INJECTOR SYSTEM
 FL FLOW LINE
 FR FIBER ROLL
 FS FLOW SENSOR
 FSC FLOW SENSOR CABLE
 FV FLUSH VALVE

G

Galv GALVANIZED
 GARV GARDEN VALVE
 GARVA GARDEN VALVE ASSEMBLY
 GM GRAVEL MULCH
 GPH GALLONS PER HOUR
 GPM GALLONS PER MINUTE
 GSP GALVANIZED STEEL PIPE
 GV GATE VALVE

H

H HALF CIRCLE
 HDPE HIGH DENSITY POLYETHYLENE
 HP HORSEPOWER/HINGE POINT
 HPL HIGH PRESSURE LINE
 Hwy HIGHWAY

I

IC IRRIGATION CONTROLLER
 ICC IRRIGATION CONTROLLER(S) IN CONTROLLER ENCLOSURE CABINET
 ID INSIDE DIAMETER
 IFS IRRIGATION FILTRATION SYSTEM
 IPS IRON PIPE SIZE
 IPT IRON PIPE THREAD
 Irr IRRIGATION

L

L LENGTH

M

Max MAXIMUM
 MBGR METAL BEAM GUARD RAILING
 MCV MANUAL CONTROL VALVE
 MIC MASTER IRRIGATION CONTROLLER
 Min MINIMUM
 MIPT MALE IRON PIPE THREAD
 Misc MISCELLANEOUS
 MtI MATERIAL
 MVP MAINTENANCE VEHICLE PULLOUT

N

NCN NO COMMON NAME
 NL NOZZLE LINE
 No. NUMBER
 NPT NATIONAL PIPE THREAD

O

O/C ON CENTER
 OD OUTSIDE DIAMETER
 OL OVERLAP

P

P PART CIRCLE
 PB PULL BOX
 PCC PORTLAND CEMENT CONCRETE
 PE POLYETHYLENE
 Pkt+ PACKET
 PL PLASTIC
 PLS PURE LIVE SEED
 PLT PLANT/PLANTING
 PLT ESTB PLANT ESTABLISHMENT
 PM POST MILE
 PR PRESSURE RATED
 PRLV PRESSURE RELIEF VALVE
 PRV PRESSURE REGULATING VALVE
 PVC POLYVINYL CHLORIDE
 Pvm+ PAVEMENT

Q

Q QUARTER CIRCLE
 QCV QUICK COUPLING VALVE

NOTE:
 For additional abbreviations, see Standard Plans A10A and A10B.

R

R RADIUS
 RCP REINFORCED CONCRETE PIPE
 RCV REMOTE CONTROL VALVE
 RCVM REMOTE CONTROL VALVE (MASTER)
 RCVMF REMOTE CONTROL VALVE (MASTER) W/FLOW SENSOR
 RCVP REMOTE CONTROL VALVE W/PRESSURE REGULATOR
 RCW RECYCLED WATER
 RECP ROLLED EROSION CONTROL PRODUCT
 REQ REQUIRED
 RICS REMOTE IRRIGATION CONTROL SYSTEM
 R/W RIGHT OF WAY

S

S SLIP
 SCH SCHEDULE
 SF STATE-FURNISHED
 Shld SHOULDER
 Sq SQUARE
 SST SIDE STRIP
 Sta STATION
 Std STANDARD
 SW SIDEWALK/SOUND WALL

T

T THIRD CIRCLE/THREAD
 TLS TRUCK LOADING STANDPIPE
 TQ THREE QUARTER CIRCLE
 TRM TURF REINFORCEMENT MAT
 TT TWO-THIRDS CIRCLE
 TWSA TREE WELL SPRINKLER ASSEMBLY
 Typ TYPICAL

U

UG UNDERGROUND

W

W WIDTH
 W/ WITH
 WM WATER METER
 WS WYE STRAINER
 WSA WYE STRAINER ASSEMBLY
 WSP WELDED STEEL PIPE
 WWM WELDED WIRE MESH

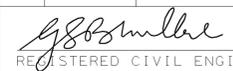
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
LANDSCAPE AND EROSION CONTROL ABBREVIATIONS
 NO SCALE

RSP H1 DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN H1 DATED MAY 20, 2011 - PAGE 218 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP H1

2010 REVISED STANDARD PLAN RSP H1

| | | | | | |
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| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
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 REGISTERED CIVIL ENGINEER
 July 19, 2013
 PLANS APPROVAL DATE



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TO ACCOMPANY PLANS DATED 3-30-15

TABLE 1

| TAPER LENGTH CRITERIA AND CHANNELIZING DEVICE SPACING | | | | | | | |
|---|--|-----------|--------------|--------------|-------------------------------------|---------|----------|
| SPEED (S) | MINIMUM TAPER LENGTH * FOR WIDTH OF OFFSET 12 FEET (W) | | | | MAXIMUM CHANNELIZING DEVICE SPACING | | |
| | TANGENT 2L | MERGING L | SHIFTING L/2 | SHOULDER L/3 | X | Y | Z ** |
| | | | | | TAPER | TANGENT | CONFLICT |
| mph | ft | ft | ft | ft | ft | ft | ft |
| 20 | 160 | 80 | 40 | 27 | 20 | 40 | 10 |
| 25 | 250 | 125 | 63 | 42 | 25 | 50 | 12 |
| 30 | 360 | 180 | 90 | 60 | 30 | 60 | 15 |
| 35 | 490 | 245 | 123 | 82 | 35 | 70 | 17 |
| 40 | 640 | 320 | 160 | 107 | 40 | 80 | 20 |
| 45 | 1080 | 540 | 270 | 180 | 45 | 90 | 22 |
| 50 | 1200 | 600 | 300 | 200 | 50 | 100 | 25 |
| 55 | 1320 | 660 | 330 | 220 | 55 | 110 | 27 |
| 60 | 1440 | 720 | 360 | 240 | 60 | 120 | 30 |
| 65 | 1560 | 780 | 390 | 260 | 65 | 130 | 32 |
| 70 | 1680 | 840 | 420 | 280 | 70 | 140 | 35 |

* - For other offsets, use the following merging taper length formula for L:
 For speed of 40 mph or less, $L = WS^2/60$
 For speed of 45 mph or more, $L = WS$

Where: L = Taper length in feet
 W = Width of offset in feet
 S = Posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

** - Use for taper and tangent sections where there are no pavement markings or where there is a conflict between existing pavement markings and channelizers (CA).

TABLE 2

| LONGITUDINAL BUFFER SPACE AND FLAGGER STATION SPACING | | | | |
|---|----------|---------------------|-----|-----|
| SPEED * | Min D ** | DOWNGRADE Min D *** | | |
| | | -3% | -6% | -9% |
| | | ft | ft | ft |
| mph | ft | ft | ft | ft |
| 20 | 115 | 116 | 120 | 126 |
| 25 | 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 |
| 70 | 730 | 771 | 825 | 891 |

* - Speed is posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph
 ** - Longitudinal buffer space or flagger station spacing
 *** - Use on sustained downgrade steeper than -3 percent and longer than 1 mile.

TABLE 3

| ADVANCE WARNING SIGN SPACING | | | |
|------------------------------------|--------------------------|------|------|
| ROAD TYPE | DISTANCE BETWEEN SIGNS * | | |
| | A | B | C |
| | ft | ft | ft |
| URBAN - 25 mph OR LESS | 100 | 100 | 100 |
| URBAN - MORE THAN 25 mph TO 40 mph | 250 | 250 | 250 |
| URBAN - MORE THAN 40 mph | 350 | 350 | 350 |
| RURAL | 500 | 500 | 500 |
| EXPRESSWAY / FREEWAY | 1000 | 1500 | 2640 |

* - The distances are approximate, are intended for guidance purposes only, and should be applied with engineering judgment. These distances should be adjusted by the Engineer for field conditions, if necessary, by increasing or decreasing the recommended distances.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM TABLES
 FOR LANE AND RAMP CLOSURES**

NO SCALE

RSP T9 DATED JULY 19, 2013 SUPERSEDES RSP T9 DATED APRIL 19, 2013 THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

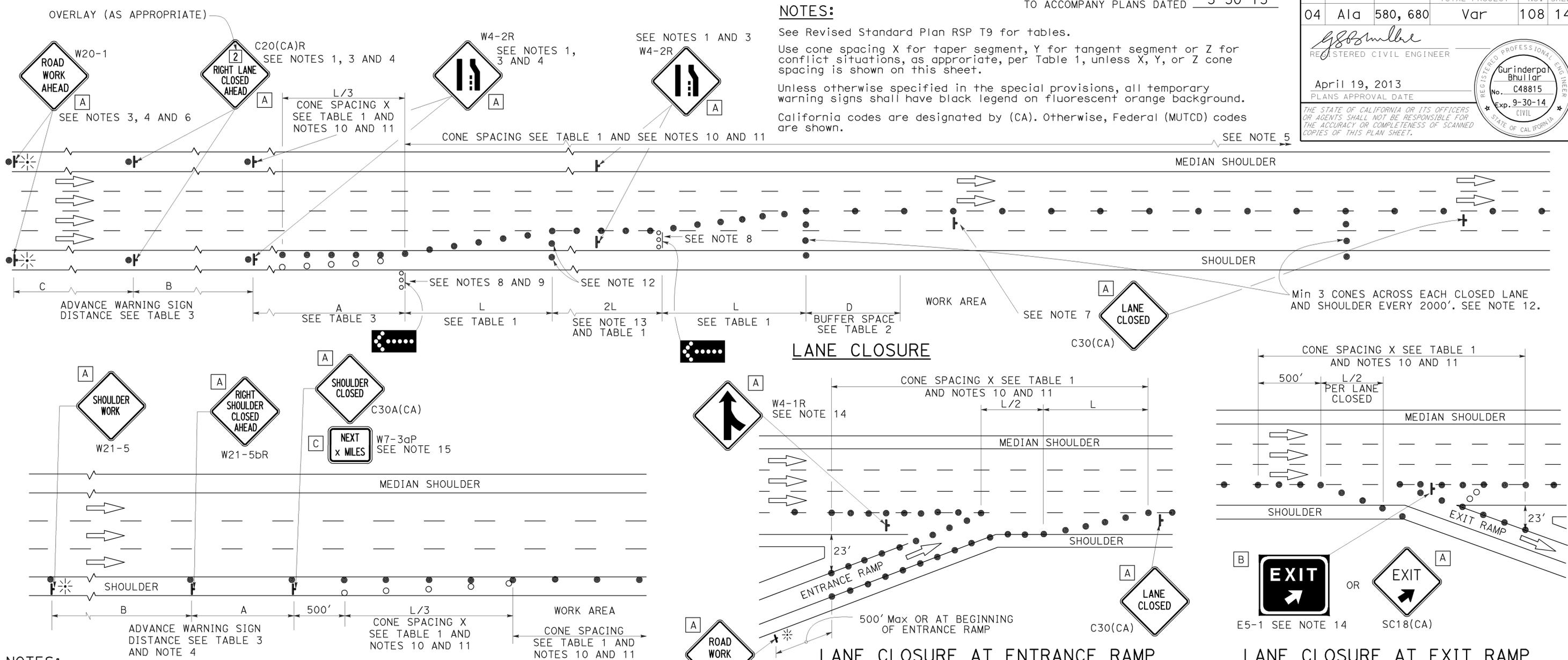
REVISED STANDARD PLAN RSP T9

2010 REVISED STANDARD PLAN RSP T9

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|----------|--------------------------|-----------|--------------|
| 04 | Ala | 580, 680 | Var | 108 | 143 |

REGISTERED CIVIL ENGINEER
 April 19, 2013
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
 Gurinderpal Bhullar
 No. C48815
 Exp. 9-30-14
 CIVIL
 STATE OF CALIFORNIA



- NOTES:**
1. Median lane closures shall conform to the details as shown except that C20(CA)L and W4-2L signs shall be used.
 2. At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
 3. Duplicate sign installations are not required:
 - a) On opposite shoulder if at least one-half of the available lanes remain open to traffic.
 - b) In the median if the width of the median shoulder is less than 8' and the outside lanes are to be closed.
 4. Each advance warning sign on each side of the roadway shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
 5. A G20-2 "END ROAD WORK" sign, with minimum size of 48" x 24" 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.

- SHOULDER CLOSURE**
6. If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a C20(CA)L and W4-2L signs shall be used.
 7. Place a C30(CA) sign every 2000' throughout length of lane closure.
 8. One flashing arrow sign for each lane closed. The flashing arrow signs shall be Type I.
 9. A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at top of crest vertical curve or on a horizontal curve.
 10. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
 11. Portable delineators, placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.

- LANE CLOSURE AT ENTRANCE RAMP**
12. Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000' as shown on the "Lane Closure" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
 13. Unless otherwise specified in the special provisions, the 2L tangent shown along lane lines shall be used between the L tapers required for each closed traffic lane.
 14. Unless otherwise specified in the special provisions, the E5-1 or SC18(CA) and W4-1 signs shall be used as shown.
 15. A W7-3aP "NEXT _____ MILES" plaque must be used if the shoulder closure extends beyond the distance that can be perceived by road users.

LEGEND

- TRAFFIC CONE
- TRAFFIC CONE (OPTIONAL TAPER)
- † TEMPORARY TRAFFIC CONTROL SIGN
- ⬢ FLASHING ARROW SIGN (FAS)
- ⬢ FAS SUPPORT OR TRAILER
- ⚡ PORTABLE FLASHING BEACON

SIGN PANEL SIZE (Min)

| | |
|---|-----------|
| A | 48" x 48" |
| B | 72" x 60" |
| C | 36" x 30" |

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON FREEWAYS AND EXPRESSWAYS

NO SCALE

RSP T10 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T10 DATED MAY 20, 2011 - PAGE 237 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T10

2010 REVISED STANDARD PLAN RSP T10

TYPICAL RAMP CLOSURES

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 48" x 30"
- C 36" x 36"
- D 48" x 36"

LEGEND

- TRAFFIC CONE
- † TEMPORARY TRAFFIC CONTROL SIGN
- ‡ BARRICADES
- ⚡ PORTABLE FLASHING BEACON

| | | | | | |
|------|--------|----------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 04 | Ala | 580, 680 | Var | 109 | 143 |

Gurinderpal Bhullar
 REGISTERED CIVIL ENGINEER
 April 19, 2013
 PLANS APPROVAL DATE

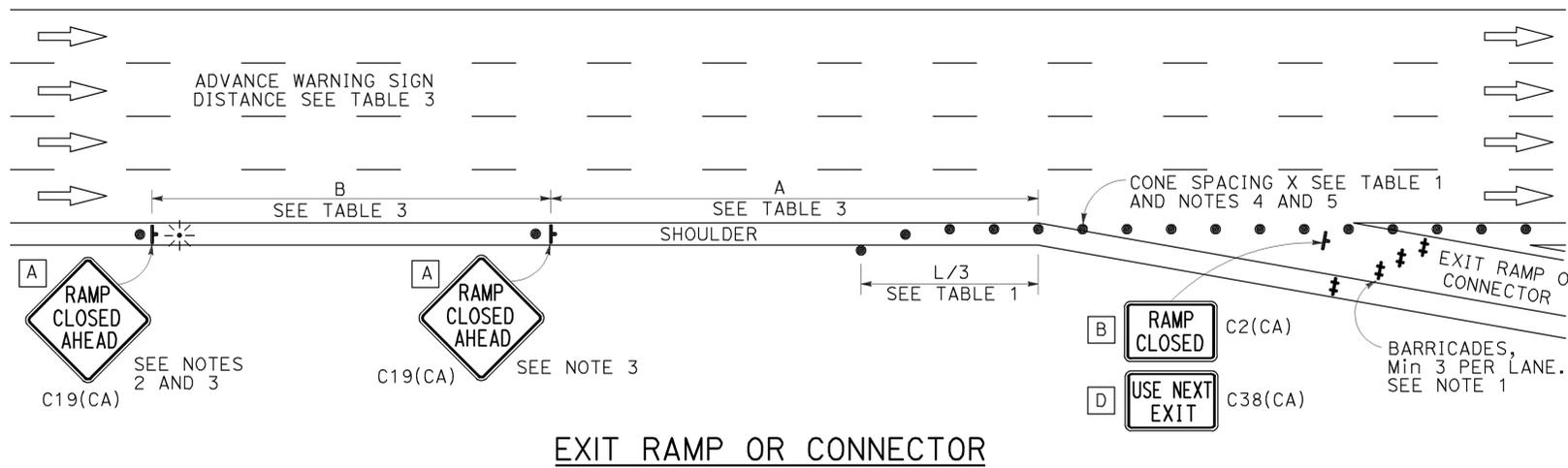
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

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

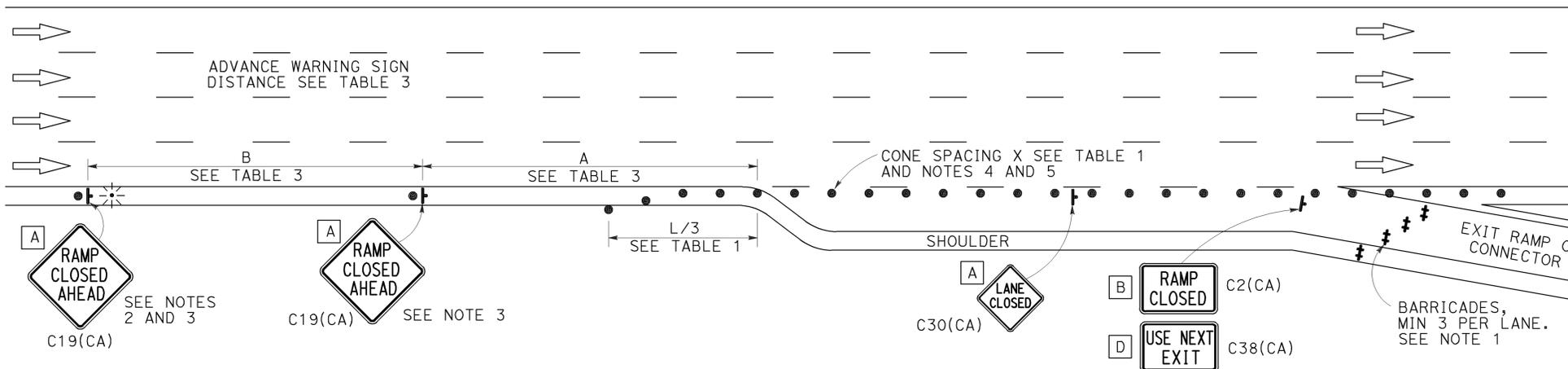
TO ACCOMPANY PLANS DATED 3-30-15

NOTES:

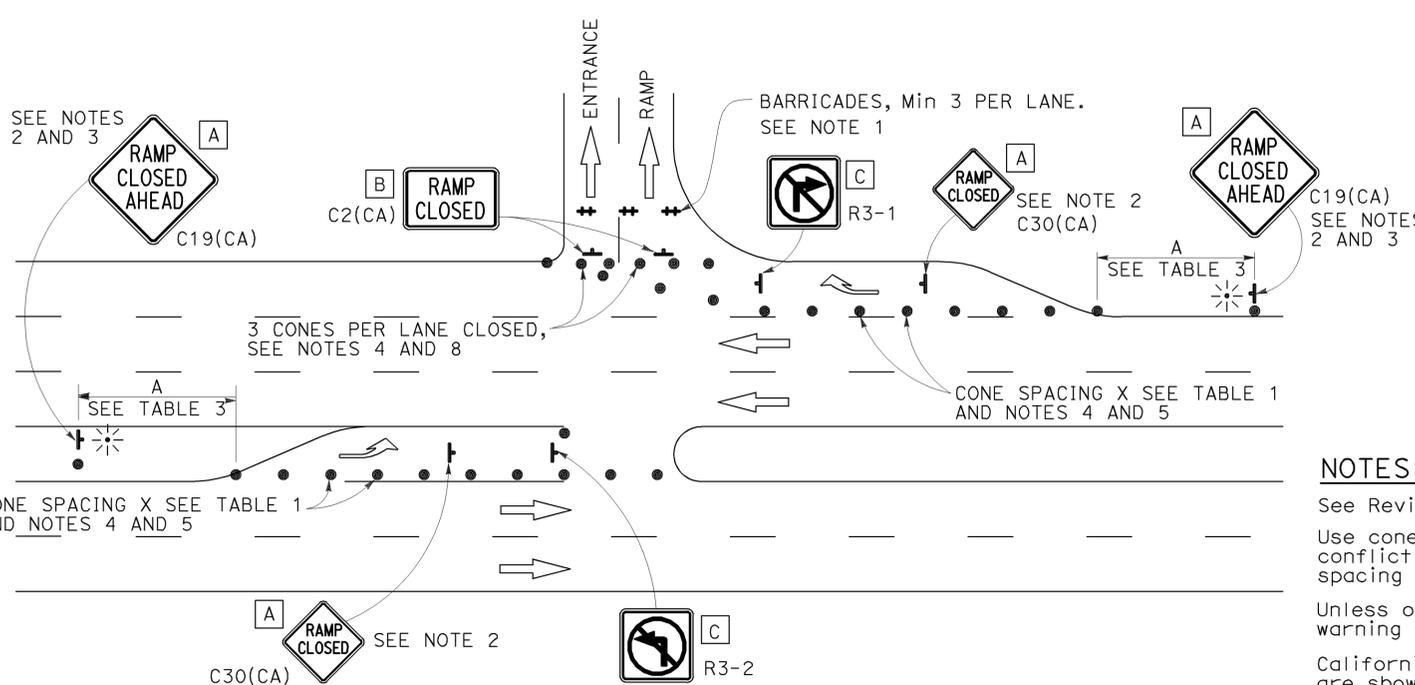
- Barricades shall be Type I, II, or III for closures lasting one week or less and Type III for closures lasting longer than one week.
- In addition to placing the C19(CA) "RAMP CLOSED AHEAD" and C30(CA) "RAMP CLOSED" signs, black on orange overlay plates with the word "CLOSED" may be mounted, as directed 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. A flashing beacon shall be placed on top of the first C19(CA) sign during hours of darkness.
- 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" signs shall be covered during ramp closures.
- A minimum of 3 cones shall be placed transversely across each closed lane and shoulder.



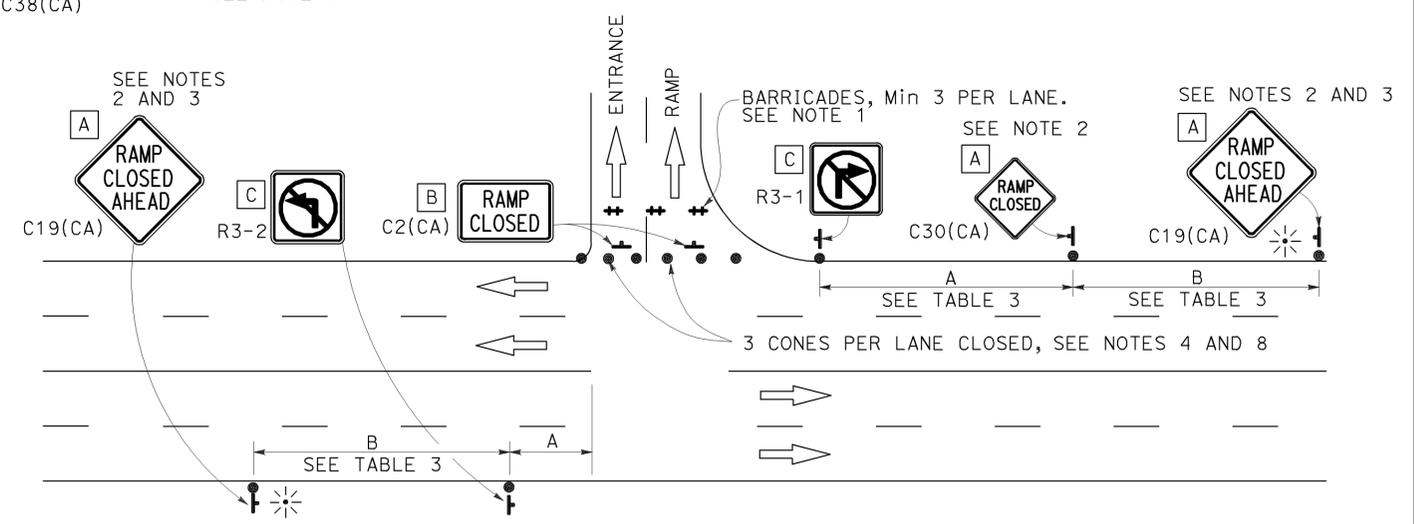
EXIT RAMP OR CONNECTOR



EXIT RAMP OR CONNECTOR WITH ADDITIONAL LANE



ENTRANCE RAMP WITH TURNING POCKETS



ENTRANCE RAMP WITHOUT TURNING POCKETS

NOTES:

- See Revised Standard Plan RSP T9 for tables.
- Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.
- Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on fluorescent orange background.
- California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

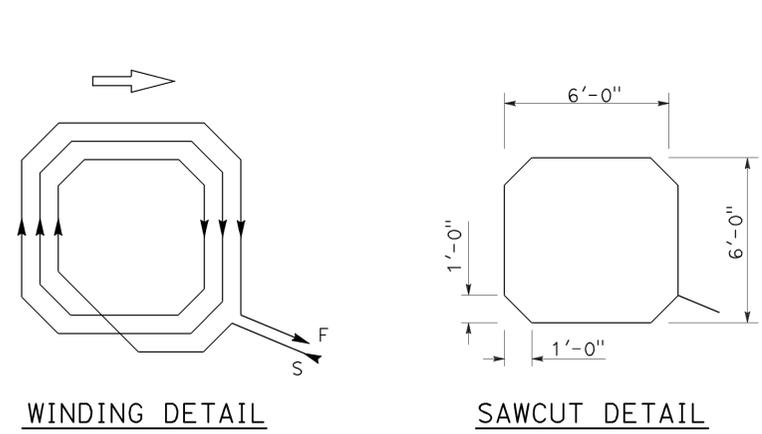
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
 FOR RAMP CLOSURE**
 NO SCALE

RSP T14 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T14
 DATED MAY 20, 2011 - PAGE 242 OF THE STANDARD PLANS BOOK DATED 2010.

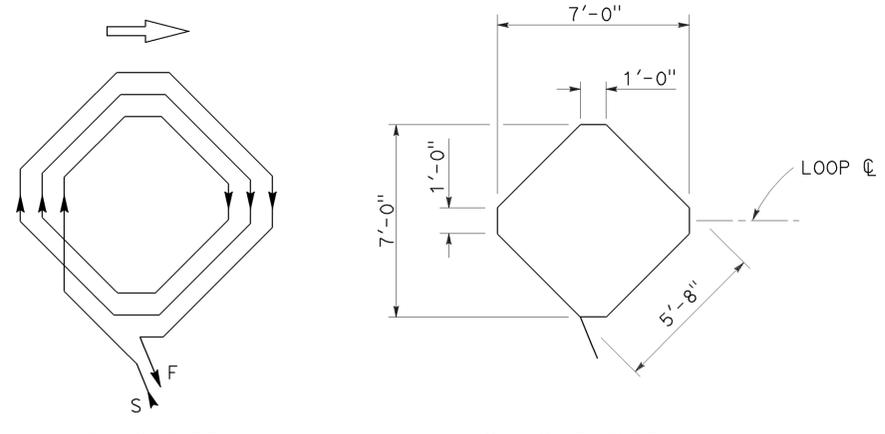
REVISED STANDARD PLAN RSP T14

2010 REVISED STANDARD PLAN RSP T14

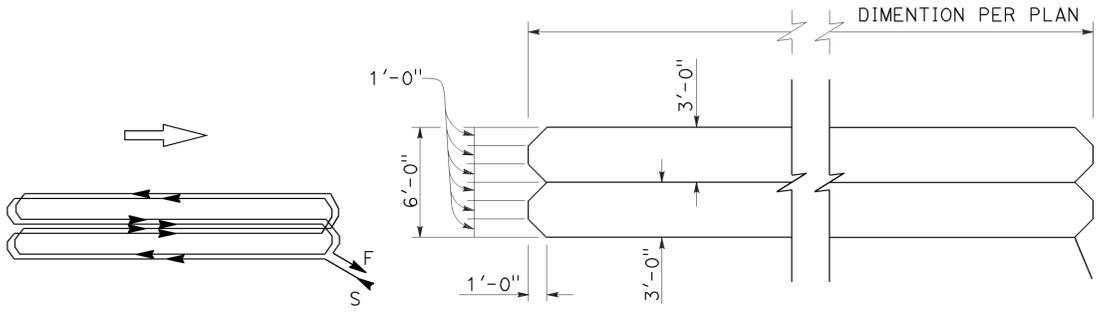
| | | | | | |
|--|--------|----------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 04 | Ala | 580, 680 | Var | 110 | 143 |
| <i>Theresa Gabriel</i> REGISTERED ELECTRICAL ENGINEER July 19, 2013 PLANS APPROVAL DATE <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> | | | | | |
| | | | | | |
| TO ACCOMPANY PLANS DATED <u>3-30-15</u> | | | | | |



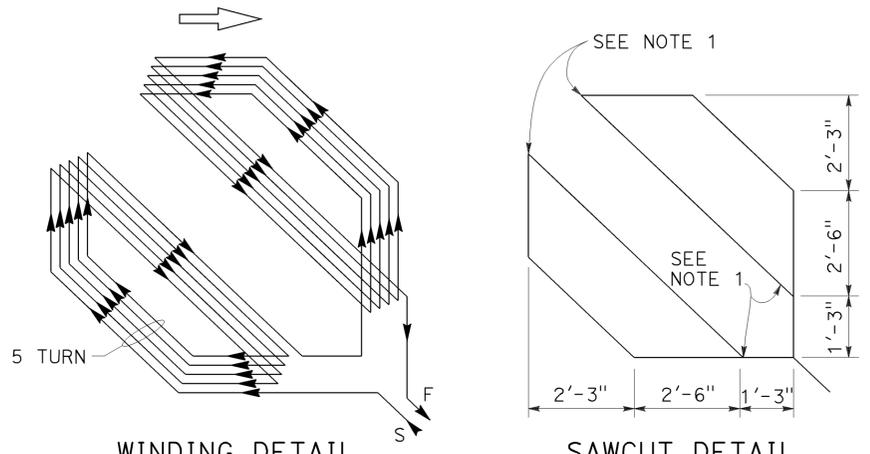
WINDING DETAIL
SAWCUT DETAIL
TYPE A LOOP DETECTOR CONFIGURATION



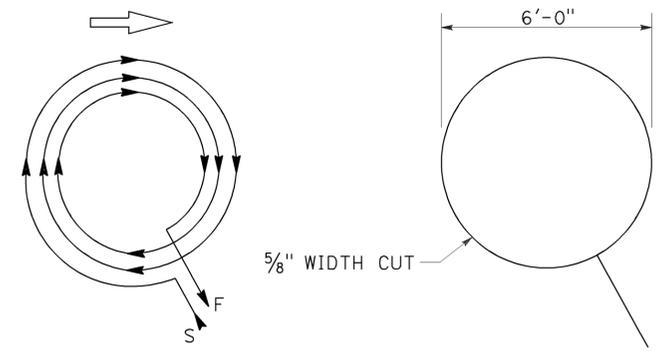
WINDING DETAIL
SAWCUT DETAIL
TYPE B LOOP DETECTOR CONFIGURATION



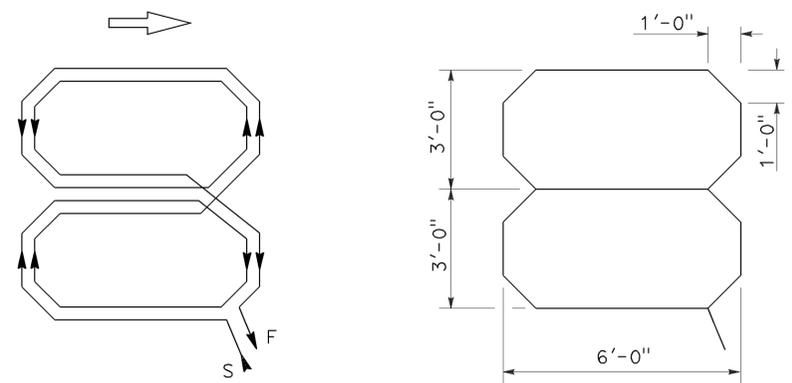
WINDING DETAIL
SAWCUT DETAIL
TYPE C LOOP DETECTOR CONFIGURATION



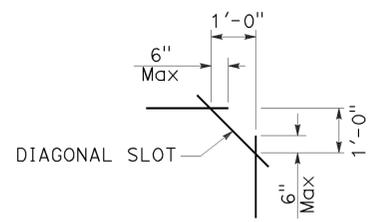
WINDING DETAIL
SAWCUT DETAIL
TYPE D LOOP DETECTOR CONFIGURATION



WINDING DETAIL
SAWCUT DETAIL
TYPE E LOOP DETECTOR CONFIGURATION



WINDING DETAIL
SAWCUT DETAIL
TYPE Q LOOP DETECTOR CONFIGURATION



PLAN VIEW OF DIAGONAL SLOT AT CORNERS

- NOTES:**
1. Round corners of acute angle sawcuts to prevent damage to conductors.
 2. Typical distance separating loops from edge to edge is 10' for Type A, B, D and E installation in single lane.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
ELECTRICAL SYSTEMS (DETECTORS)
NO SCALE

RSP ES-5B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN ES-5B DATED MAY 20, 2011 - PAGE 449 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-5B

2010 REVISED STANDARD PLAN RSP ES-5B

INDEX TO PLANS

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|--------|---------|--------------------------|---------------------------|--------------|
| 04 | Ala | 580,680 | Var | 111 | 143 |
| | | | | REGISTERED CIVIL ENGINEER | DATE |
| | | | | 2-19-15 | |
| | | | | 3-30-15 | |
| | | | | PLANS APPROVAL DATE | |
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SHEET No. TITLE

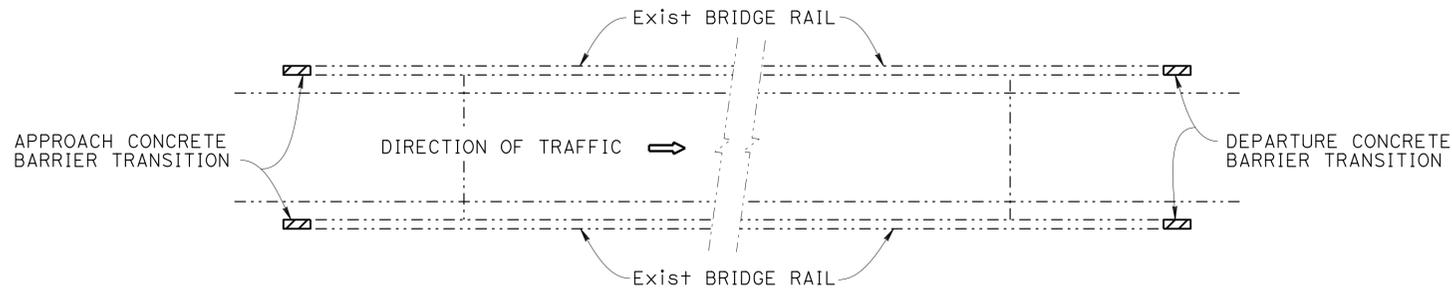
1. GENERAL PLAN
2. CONCRETE BARRIER TYPE 1 (CASE 1)
3. CONCRETE BARRIER TYPE 1 (CASE 2)
4. CONCRETE BARRIER TYPE 1 (CASE 3)
5. CONCRETE BARRIER TYPE 1 (CASE 4)
6. CONCRETE BARRIER TYPE 1 OVER DI (CASE 1)
7. CONCRETE BARRIER TYPE 1 OVER DI (CASE 2)
8. CONCRETE BARRIER TYPE 1 OVER DI (CASE 3)
9. CONCRETE BARRIER TYPE 1 WITH PARAPET WALL
10. CONCRETE BARRIER TYPE 1 (MOD)
11. CONCRETE BARRIER TYPE 2 (CASE 1)
12. CONCRETE BARRIER TYPE 2 (CASE 2)
13. CONCRETE BARRIER TYPE 2 OVER DI
14. CONCRETE BARRIER TYPE 25 (CASE 1)
15. CONCRETE BARRIER TYPE 25 (MOD) (CASE 2)
16. CONCRETE BARRIER TYPE 25 WITH SOUNDWALL
17. CONCRETE BARRIER TYPE 27 AND RETAINING WALL (CASE 1)
18. CONCRETE BARRIER TYPE 27 AND RETAINING WALL (CASE 2)
19. CONCRETE BARRIER TYPE 27 AND RETAINING WALL (CASE 3)
20. CONCRETE BARRIER TYPE 60
21. REINFORCED CONCRETE RETAINING WALL
22. CONCRETE BARRIER TYPE 60SD (MOD) COLUMN PROTECTION AT BENT 2 DETAIL No.1
23. CONCRETE BARRIER TYPE 60SD (MOD) COLUMN PROTECTION AT BENT 2 DETAIL No.2
24. BRIDGE NO. 33-0325 (ABUTMENT 3)
25. BRIDGE NO. 33-0330 (BENT 2)
26. BRIDGE NO. 33-0330 (BENT 4)
27. LOCATION TABLE - ROUTE 580 No. 1
28. LOCATION TABLE - ROUTE 580 No. 2
29. LOCATION TABLE - ROUTE 580 No. 3
30. LOCATION TABLE - ROUTE 580 No. 4
31. LOCATION TABLE - ROUTE 580 No. 5
32. LOCATION TABLE - ROUTE 680 No. 1
33. LOCATION TABLE - ROUTE 680 No. 2

GENERAL NOTE:

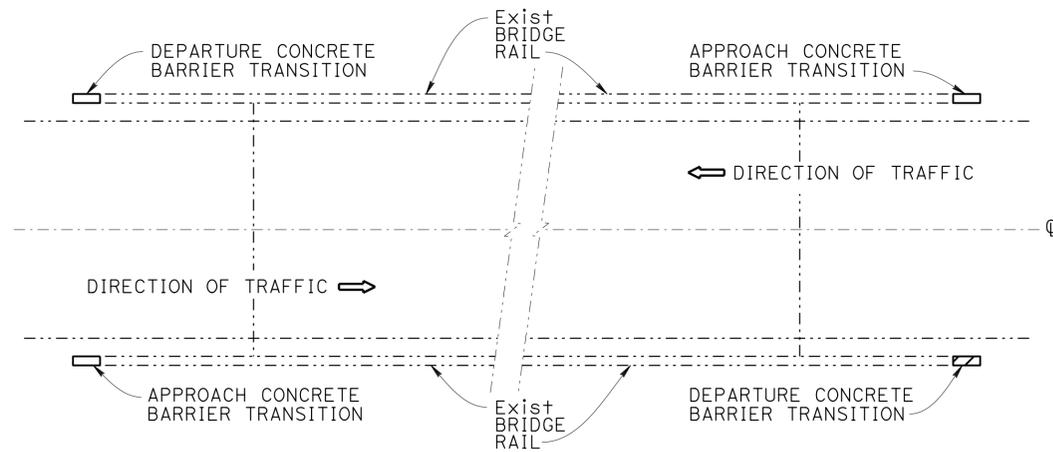
See "ROADWAY PLANS" for work locations and Midwest Guardrail System.

STANDARD PLANS DATED MAY 2010

| | |
|-----------|---|
| A10A | ABBREVIATIONS (SHEET 1 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) |
| RSP A10B | ABBREVIATIONS (SHEET 2 OF 2) |
| RSP A77U1 | MIDWEST GUARDRAIL SYSTEM CONNECTIONS TO BRIDGE RAILINGS WITHOUT SIDEWALKS DETAILS No. 1 |
| RSP A77U2 | MIDWEST GUARDRAIL SYSTEM CONNECTIONS TO BRIDGE RAILINGS WITHOUT SIDEWALKS DETAILS No. 2 |
| RSP A77U4 | MIDWEST GUARDRAIL SYSTEM TRANSITION RAILING (TYPE WB-31) |
| B0-3 | BRIDGE DETAILS |



PLAN TYPE A
ONE WAY BRIDGES
NO SCALE



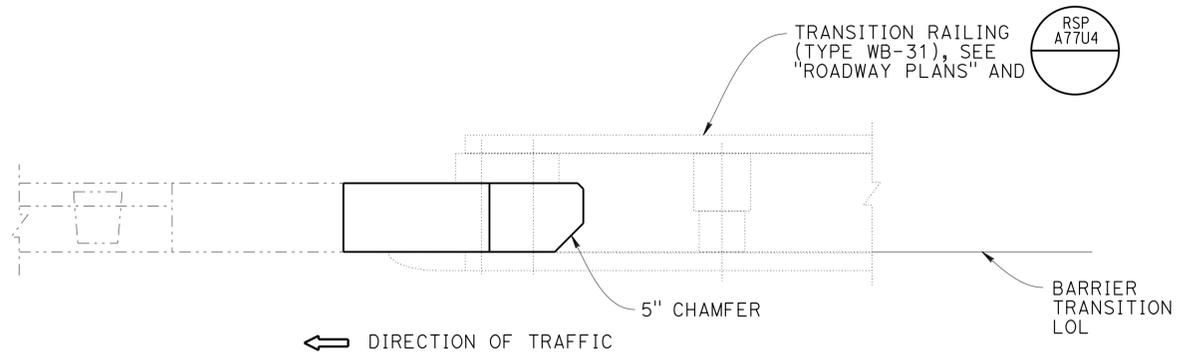
PLAN TYPE B
TWO WAY BRIDGES
NO SCALE

QUANTITIES

| | |
|---------------------------------------|--------|
| CONCRETE BARRIER (TYPE 60SD MODIFIED) | 69 LF |
| CONCRETE BARRIER (TRANSITION) | 462 LF |

| | | | | | | | | | | |
|-------------------------------------|------------|--------------------------------|------------------------|---------------------------------|---|---|---|---|------------------------------|--------|
| DAVID A. NEWMANN DESIGN ENGINEER | DESIGN | BY VICTOR LOPEZ | CHECKED JOEL MAGANA | LOAD & RESISTANCE FACTOR DESIGN | LIVE LOADING: HL93 W/"LOW-BOY"; PERMIT DESIGN VEHICLE | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES DESIGN AND TECHNICAL SERVICES SPECIAL DESIGNS BRANCH | BRIDGE NO. | CONCRETE BARRIER TRANSITIONS | |
| | DETAILS | BY SHUMEI JIANG BOB EDWARDS | CHECKED JOEL MAGANA | LAYOUT | BY VICTOR LOPEZ | | | CHECKED JOEL MAGANA | | VARIES |
| | QUANTITIES | BY JOEL MAGANA | CHECKED MICHAEL CHARAK | SPECIFICATIONS | BY ELAHEH MANSOUBI | | | PLANS AND SPECS COMPARED ELAHEH MANSOUBI | | VARIES |

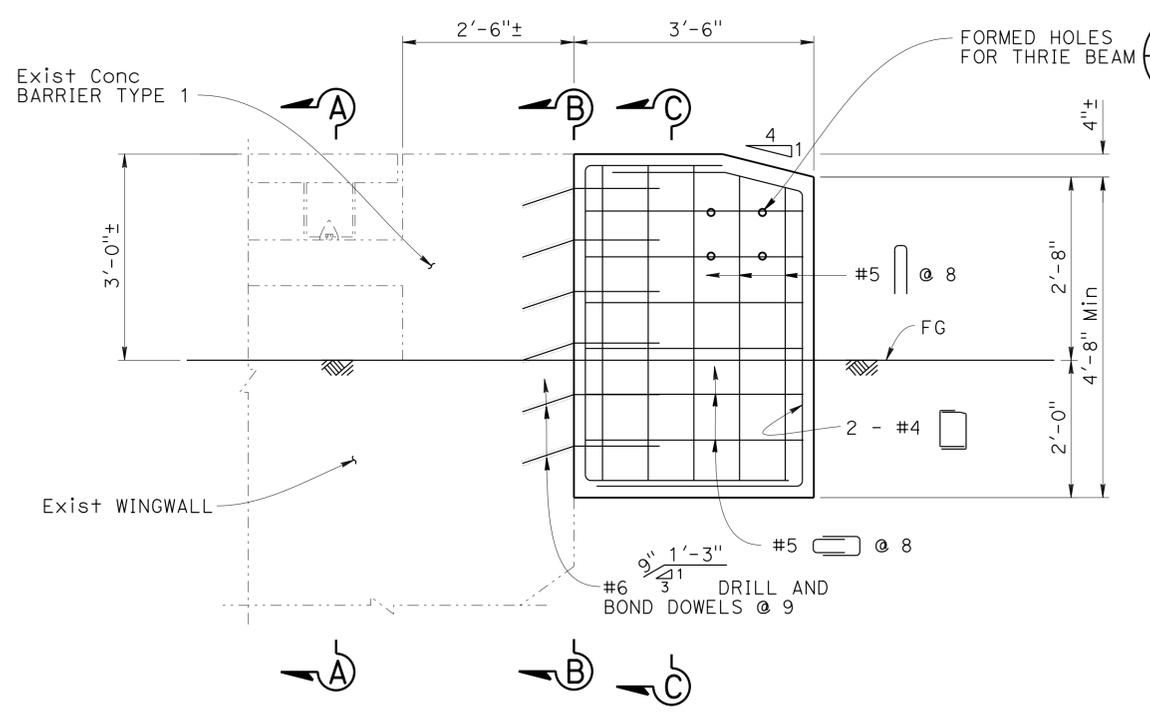
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|--|--------|---------|--------------------------|-----------|--------------|
| 04 | Ala | 580,680 | Var | 112 | 143 |
| | | | 2-19-15 | | |
| REGISTERED CIVIL ENGINEER | | | DATE | | |
| | | | 3-30-15 | | |
| | | | PLANS APPROVAL DATE | | |
| <i>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.</i> | | | | | |



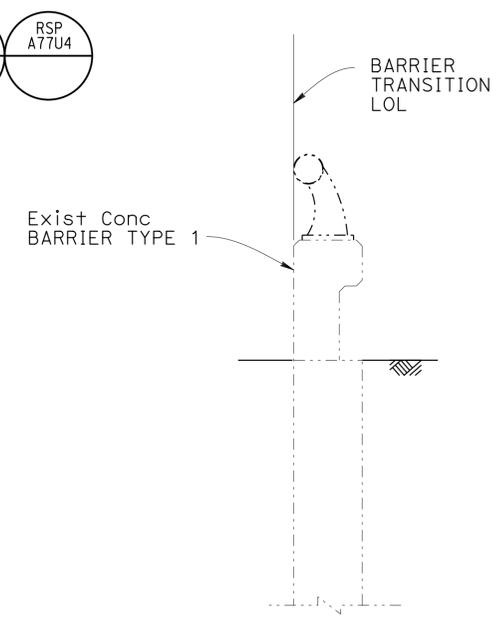
PLAN
3/4" = 1'-0"

LEGEND:
 - - - - - Indicates existing structure
 ——— Indicates new structure

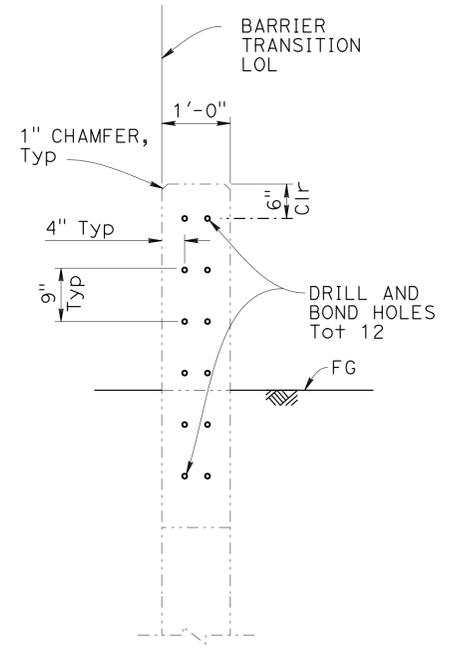
- NOTES:**
- Holes used for fastening existing MBGR shall be mortar filled, unless holes were cast using pipe sleeves.
 - Existing barrier heights vary. Where exist barrier height is more than 2'-8", transition barrier height to 2'-8" @ 4:1 slope.



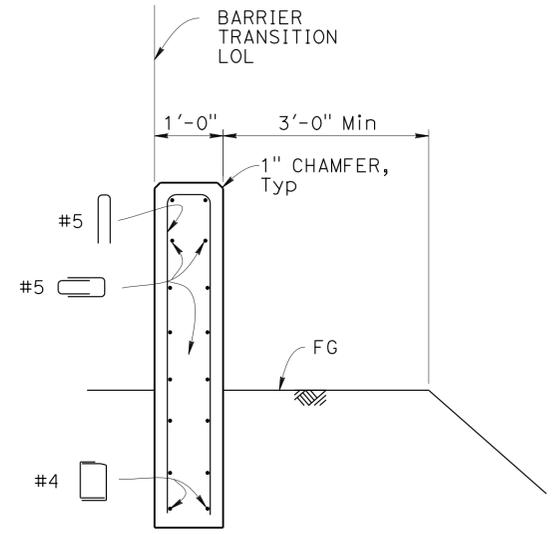
ELEVATION
3/4" = 1'-0"



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



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



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

NOTE:
The contractor must verify all controlling field dimensions before ordering or fabricating any material.

NOTE:
This sheet applies to locations ID numbers listed on table titled "CONCRETE BARRIER TYPE 1 (CASE 1), ROUTE 580" on the "LOCATION TABLE-ROUTE 580 No.1" sheet and on table titled "CONCRETE BARRIER TYPE 1 (CASE 1) ROUTE 680" on the "LOCATION TABLE-ROUTE 680 No.1" sheet. For more information, see "ROADWAY PLANS" sheet.

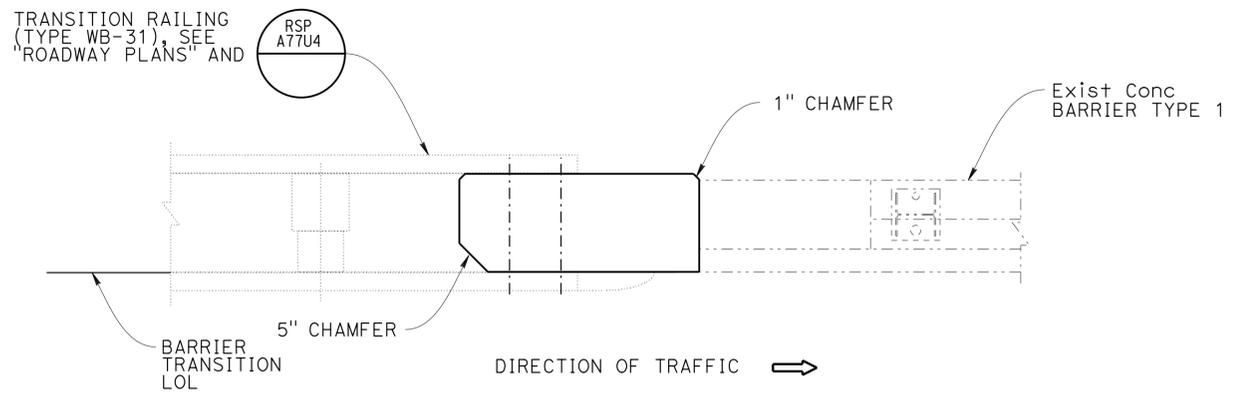
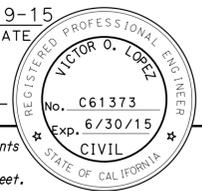
| | | | |
|--------------|------------|--------------------------------|------------------------|
| BRANCH CHIEF | DESIGN | BY VICTOR LOPEZ | CHECKED JOEL MAGANA |
| | DETAILS | BY SHUMEI JIANG BOB EDWARDS | CHECKED JOEL MAGANA |
| | QUANTITIES | BY JOEL MAGANA | CHECKED MICHAEL CHARAK |

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
DESIGN AND TECHNICAL SERVICES
SPECIAL DESIGNS BRANCH **B**

BRIDGE NO. VARIES
POST MILE VARIES
CONCRETE BARRIER TRANSITIONS
CONCRETE BARRIER TYPE 1 (CASE 1)

| | | | | | |
|---|--------|---------|--------------------------|--------------------------------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 04 | Ala | 580,680 | Var | 113 | 143 |
| <i>Victor Lopez</i> 2-19-15 REGISTERED CIVIL ENGINEER DATE | | | | 3-30-15 PLANS APPROVAL DATE | |
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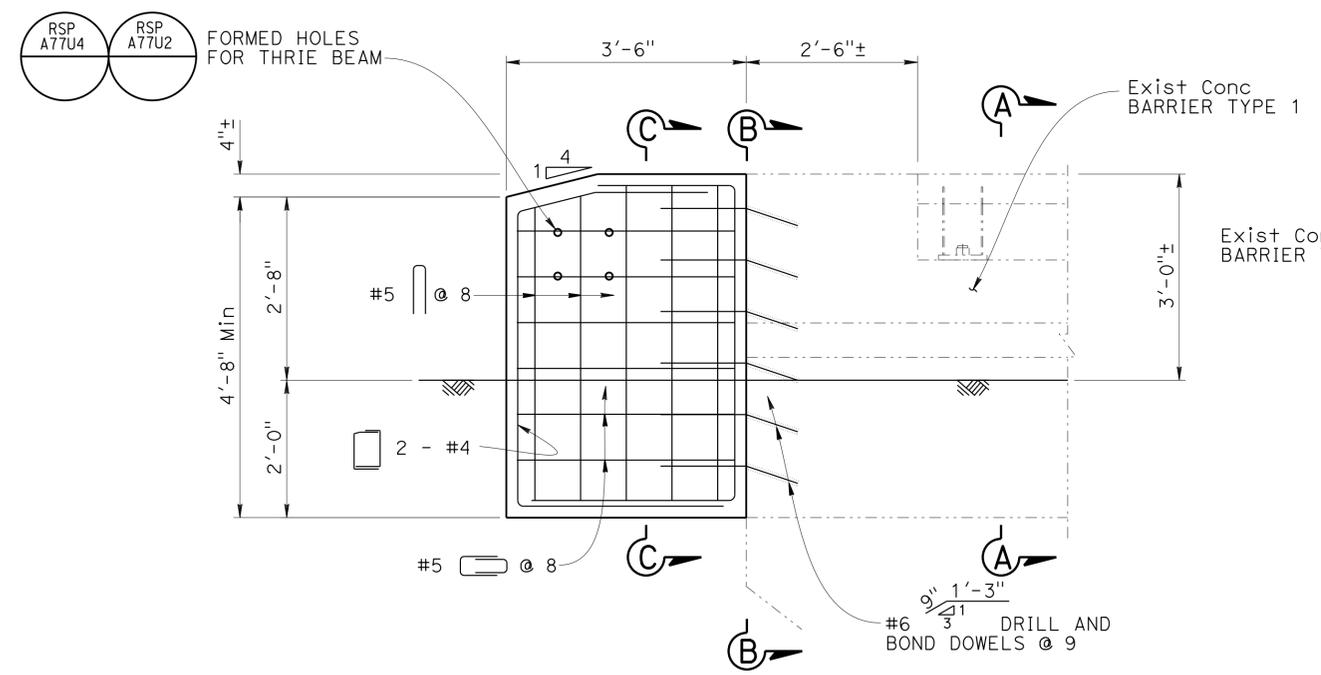
PLAN
3/4" = 1'-0"

LEGEND:

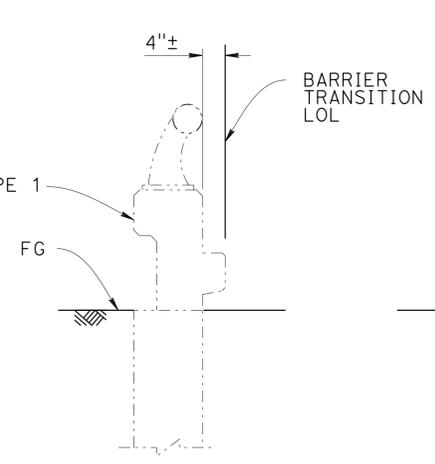
- - - - - Indicates existing structure
- Indicates new structure

NOTES:

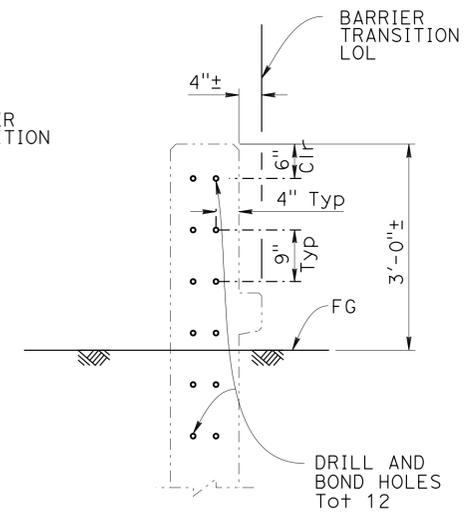
- Holes used for fastening existing MBGR shall be mortar filled, unless holes were cast using pipe sleeves.
- Existing barrier heights vary. Where exist barrier height is more than 2'-8", transition barrier height to 2'-8" @ 4:1 slope.



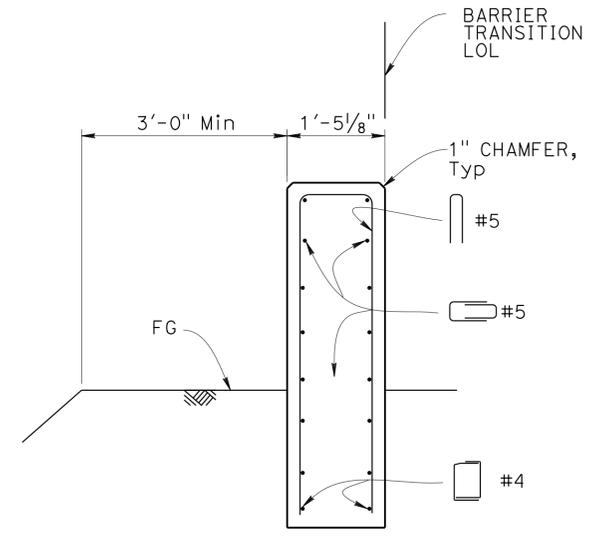
ELEVATION
3/4" = 1'-0"



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



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



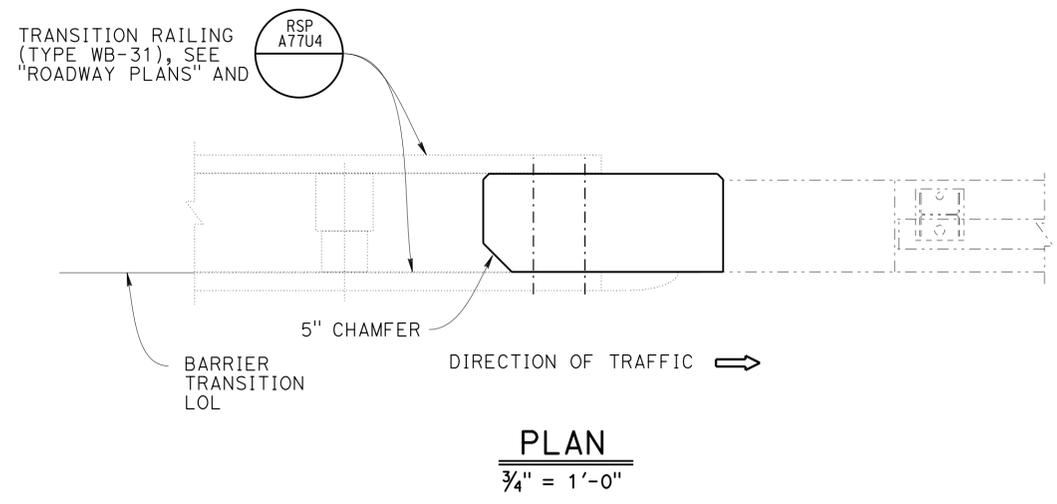
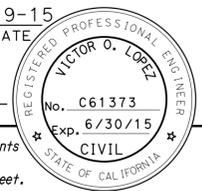
SECTION C-C
3/4" = 1'-0"

NOTE:
The contractor must verify all controlling field dimensions before ordering or fabricating any material.

NOTE:
This sheet applies to location ID numbers listed on tables titled, "CONCRETE BARRIER TYPE 1 (CASE 2) ROUTE 580" on the "LOCATION TABLE-ROUTE 580 No. 1" and "LOCATION TABLE-ROUTE 580 No. 2" sheets. For more information see "ROADWAY PLANS".

| | | | | | | | | | | | | |
|--|------------|--------------------------------|------------------------|--|--|------------|--------------------------------------|--|---|----------------|---------|-------|
| BRANCH CHIEF <u>DAVID NEUMANN</u> | DESIGN | BY VICTOR LOPEZ | CHECKED JOEL MAGANA | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES DESIGN AND TECHNICAL SERVICES SPECIAL DESIGNS BRANCH B | BRIDGE NO. | 33-0280 | CONCRETE BARRIER TRANSITIONS CONCRETE BARRIER TYPE 1 (CASE 2) | | | | |
| | DETAILS | BY SHUMEI JIANG BOB EDWARDS | CHECKED JOEL MAGANA | | | POST MILE | 45.94 | | | | | |
| | QUANTITIES | BY JOEL MAGANA | CHECKED MICHAEL CHARAK | | | | | | | | | |
| STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10) | | | | ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | 0 1 2 3 | UNIT: 3619 | PROJECT NUMBER & PHASE: 0414000064-1 | CONTRACT NO.: 04-205211 | DISREGARD PRINTS BEARING EARLIER REVISION DATES | REVISION DATES | SHEET 3 | OF 33 |

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|--------|---------|--------------------------|---------------------------|---------------------|
| 04 | Ala | 580,680 | Var | 114 | 143 |
| | | | | REGISTERED CIVIL ENGINEER | DATE |
| | | | | 3-30-15 | 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. | | | | | |

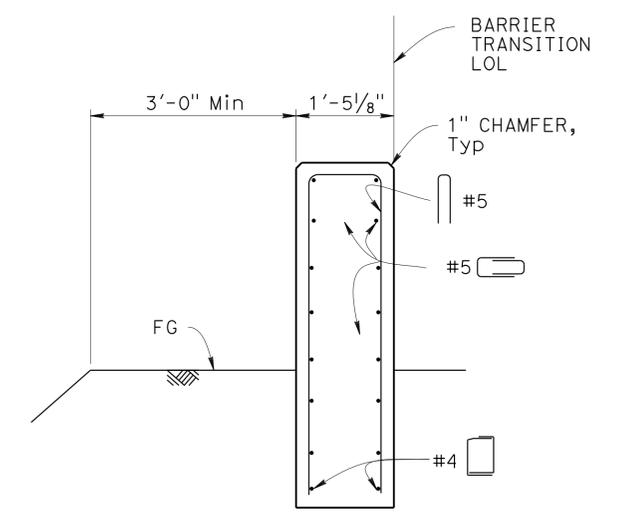
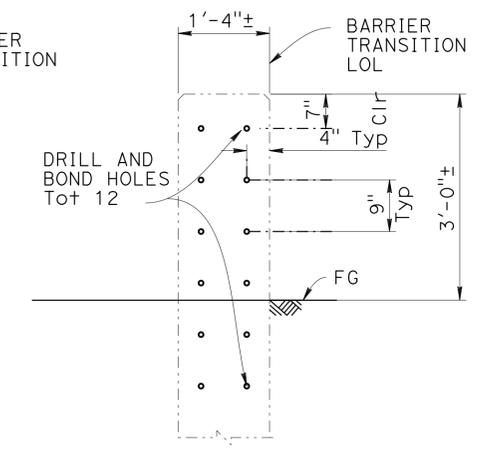
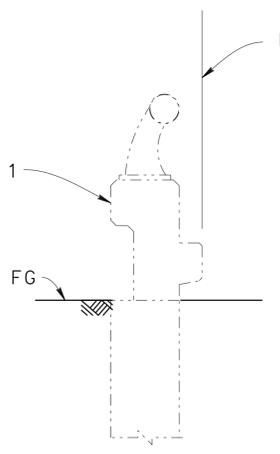
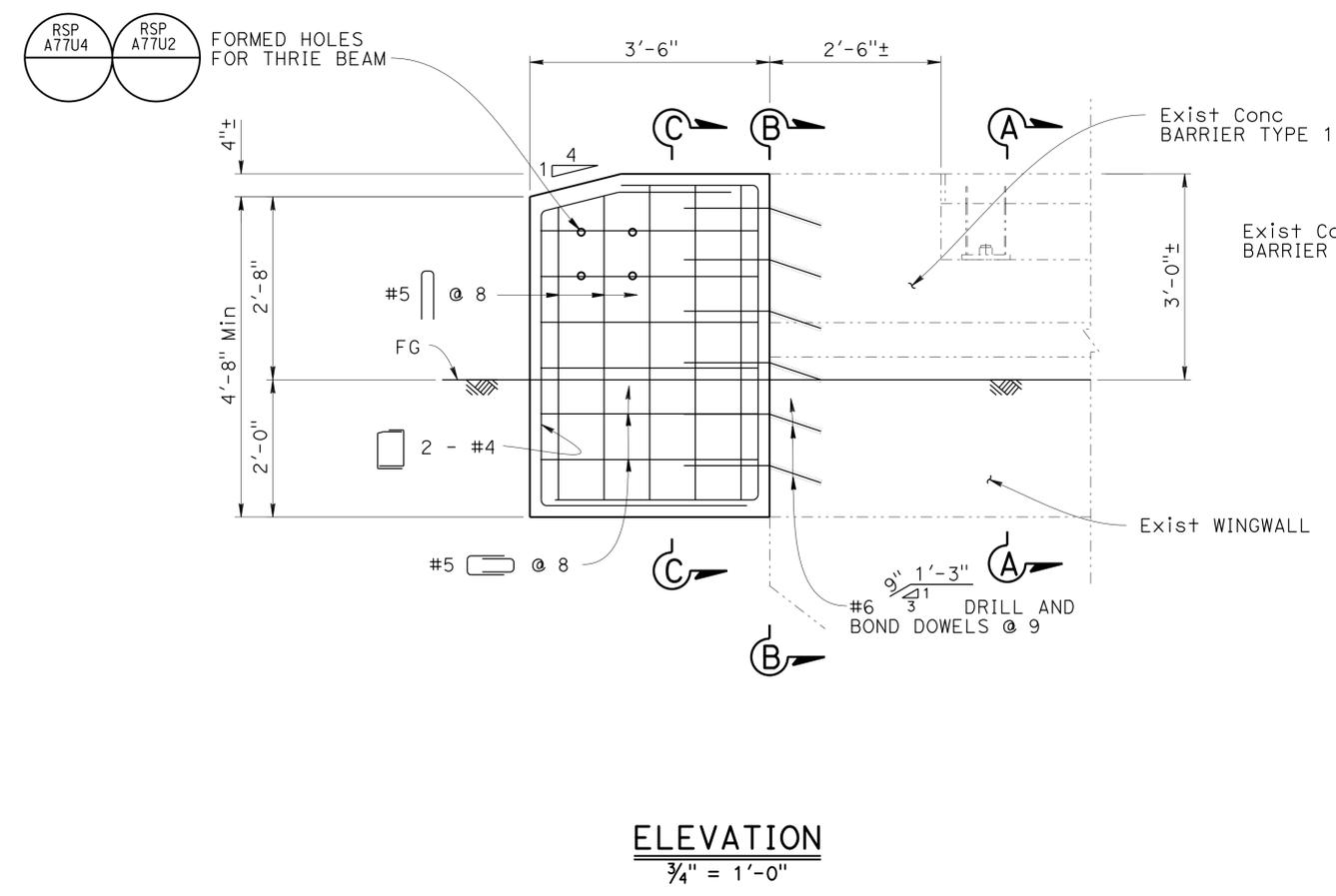


LEGEND:

- Indicates existing structure
- Indicates new structure

NOTES:

- Holes used for fastening existing MBGR shall be mortar filled, unless holes were cast using pipe sleeves.
- Existing barrier heights vary. Where exist barrier height is more than 2'-8", transition barrier height to 2'-8" @ 4:1 slope.

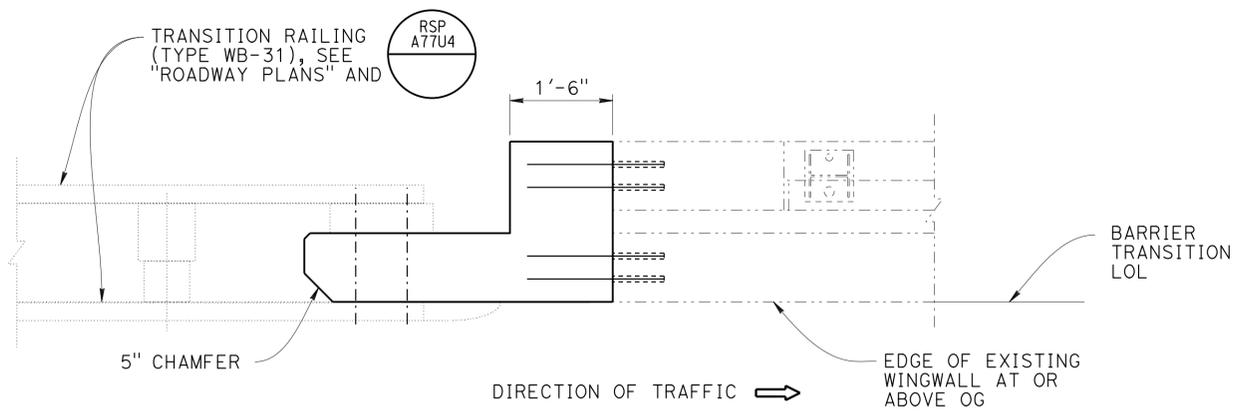


NOTE:
The contractor must verify all controlling field dimensions before ordering or fabricating any material.

NOTE:
This sheet applies to location ID number 86L. For more information see "LOCATION TABLE-ROUTE 580 No. 2" sheet and "ROADWAY PLANS".

| | | | | | | | | | | |
|--|------------|--------------------------------|------------------------|---|---|--|-------------------------|--|----------------|---------------|
| BRANCH CHIEF DAVID NEUMANN | DESIGN | BY VICTOR LOPEZ | CHECKED JOEL MAGANA | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES DESIGN AND TECHNICAL SERVICES B SPECIAL DESIGNS BRANCH | BRIDGE NO. | VARIABLES | CONCRETE BARRIER TRANSITIONS CONCRETE BARRIER TYPE 1 (CASE 3) | | |
| | DETAILS | BY SHUMEI JIANG BOB EDWARDS | CHECKED JOEL MAGANA | | | POST MILE | VARIABLES | | | |
| | QUANTITIES | BY JOEL MAGANA | CHECKED MICHAEL CHARAK | | | VARIES | VARIES | | | |
| STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10) | | | | ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | 0 1 2 3 | UNIT: 3619 PROJECT NUMBER & PHASE: 0414000064-1 | CONTRACT NO.: 04-205211 | DISREGARD PRINTS BEARING EARLIER REVISION DATES | REVISION DATES | SHEET 4 OF 33 |

| | | | | | |
|---|--------|---------|--------------------------|---|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 04 | Ala | 580,680 | Var | 115 | 143 |
| <i>Victor Lopez</i> 2-19-15 REGISTERED CIVIL ENGINEER DATE | | | | VICTOR O. LOPEZ No. C61373 Exp. 6/30/15 CIVIL STATE OF CALIFORNIA | |
| 3-30-15 PLANS APPROVAL DATE | | | | | |
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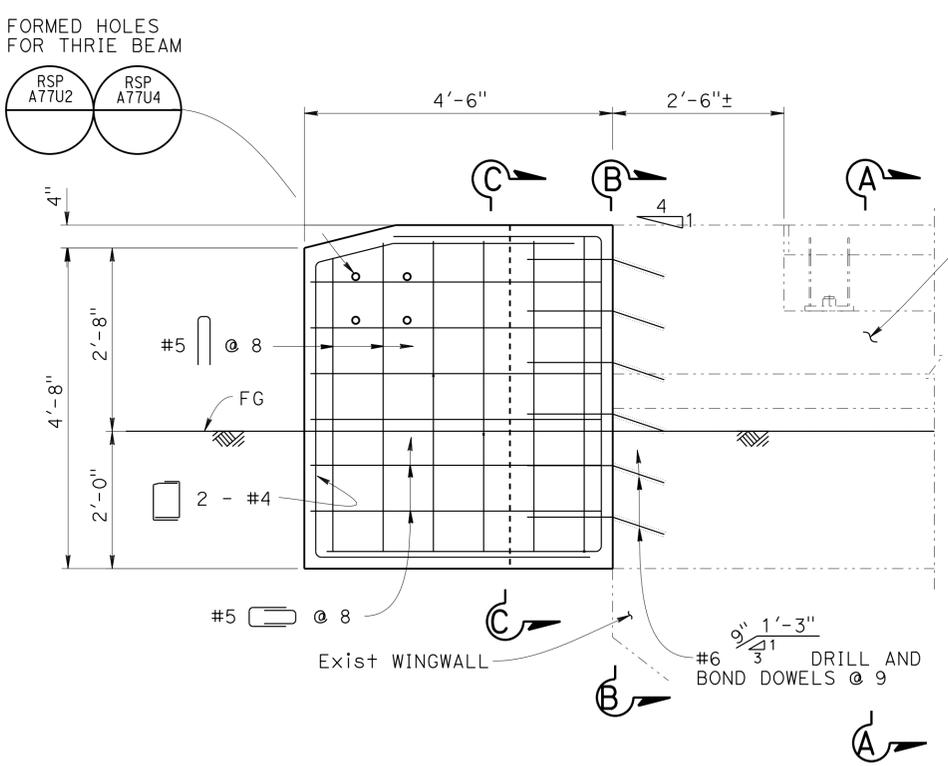
PLAN
3/4" = 1'-0"

LEGEND:

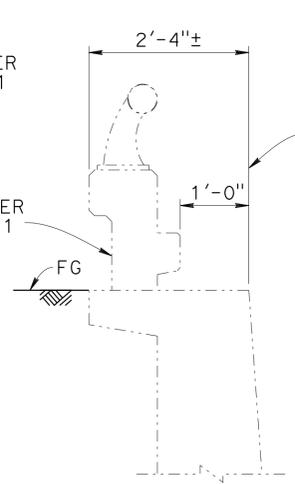
- Indicates existing structure
- Indicates new structure

NOTES:

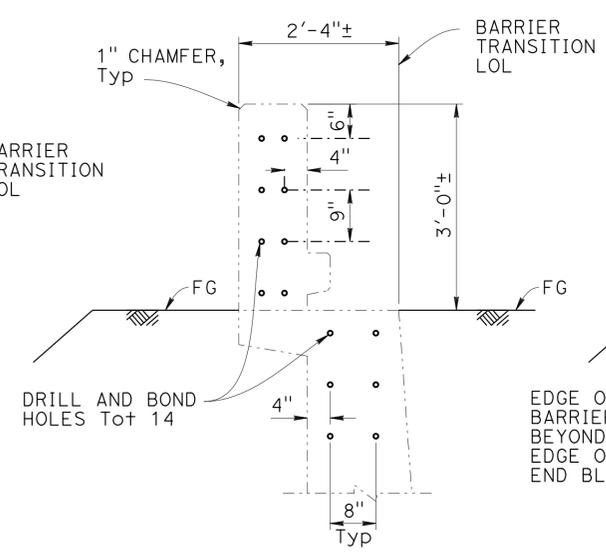
- Holes used for fastening existing MBGR shall be mortar filled, unless holes were cast using pipe sleeves.
- Existing barrier heights vary. Where exist barrier height is more than 2'-8", transition barrier height to 2'-8" @ 4:1 slope.



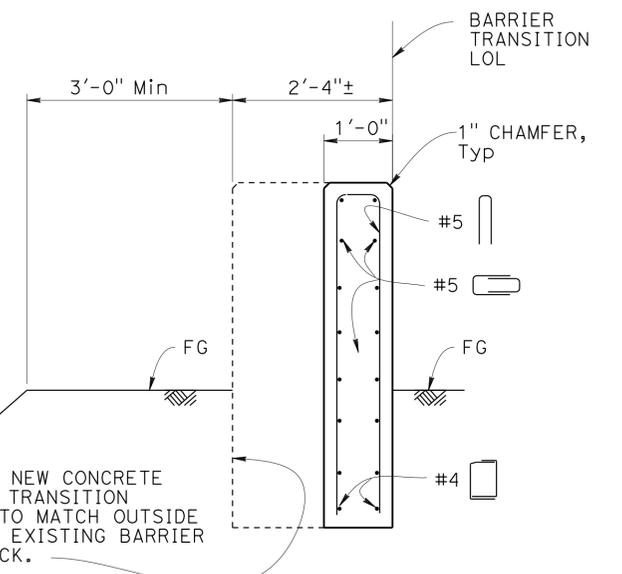
ELEVATION
3/4" = 1'-0"



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



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



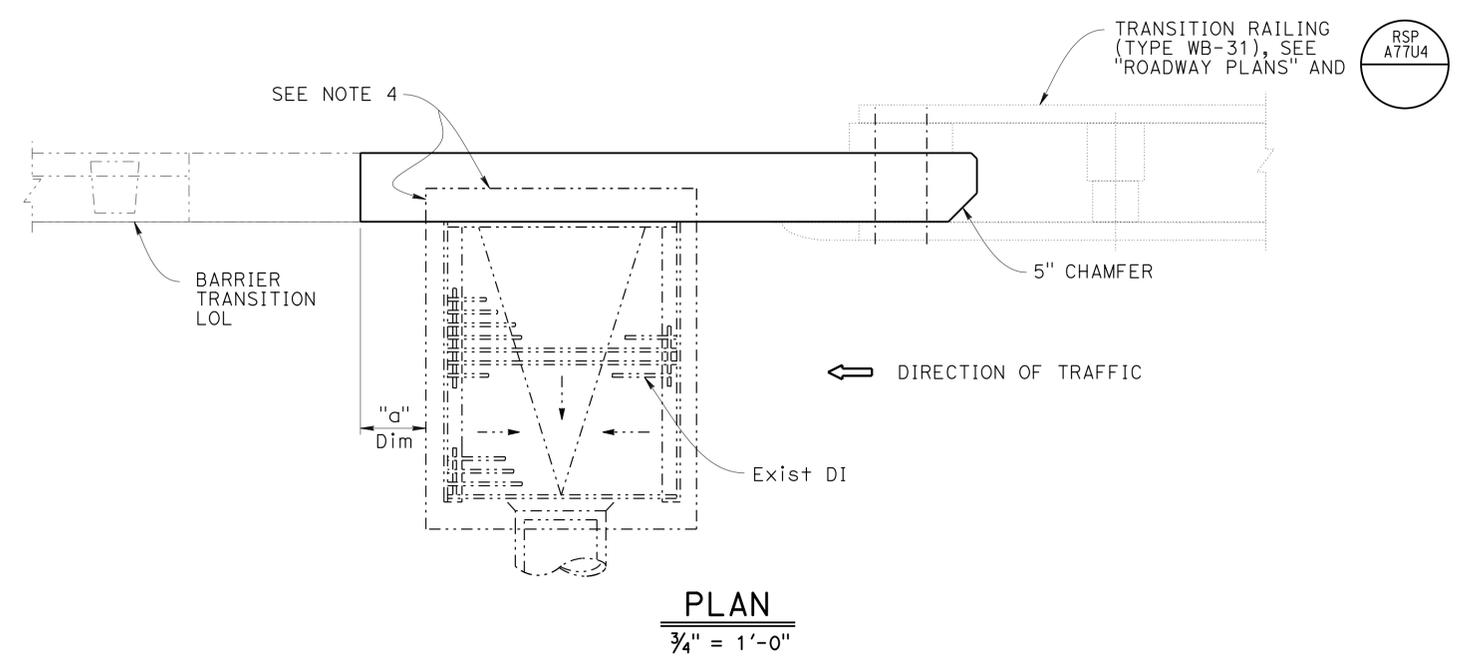
SECTION C-C
3/4" = 1'-0"

NOTE:
The contractor must verify all controlling field dimensions before ordering or fabricating any material.

NOTE:

This sheet applies to location ID numbers 59E and 59W. For more information, see "LOCATION TABLE-ROUTE 580 No. 2" sheet and "ROADWAY PLANS".

| | | | | | | | | | | |
|--|------------|--------------------------------|------------------------|--|--|--|--|---|----------------|---------------|
| BRANCH CHIEF <u>DAVID NEUMANN</u> | DESIGN | BY VICTOR LOPEZ | CHECKED JOEL MAGANA | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES DESIGN AND TECHNICAL SERVICES SPECIAL DESIGNS BRANCH B | BRIDGE NO. | CONCRETE BARRIER TRANSITIONS CONCRETE BARRIER TYPE 1 (CASE 4) | | | |
| | DETAILS | BY SHUMEI JIANG BOB EDWARDS | CHECKED JOEL MAGANA | | | VARIABLES | | | | |
| | QUANTITIES | BY JOEL MAGANA | CHECKED MICHAEL CHARAK | | | POST MILE VARIES | | | | |
| STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10) | | | | ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | 0 1 2 3 | UNIT: 3619 PROJECT NUMBER & PHASE: 0414000064-1 | CONTRACT NO.: 04-205211 | DISREGARD PRINTS BEARING EARLIER REVISION DATES | REVISION DATES | SHEET 5 OF 33 |



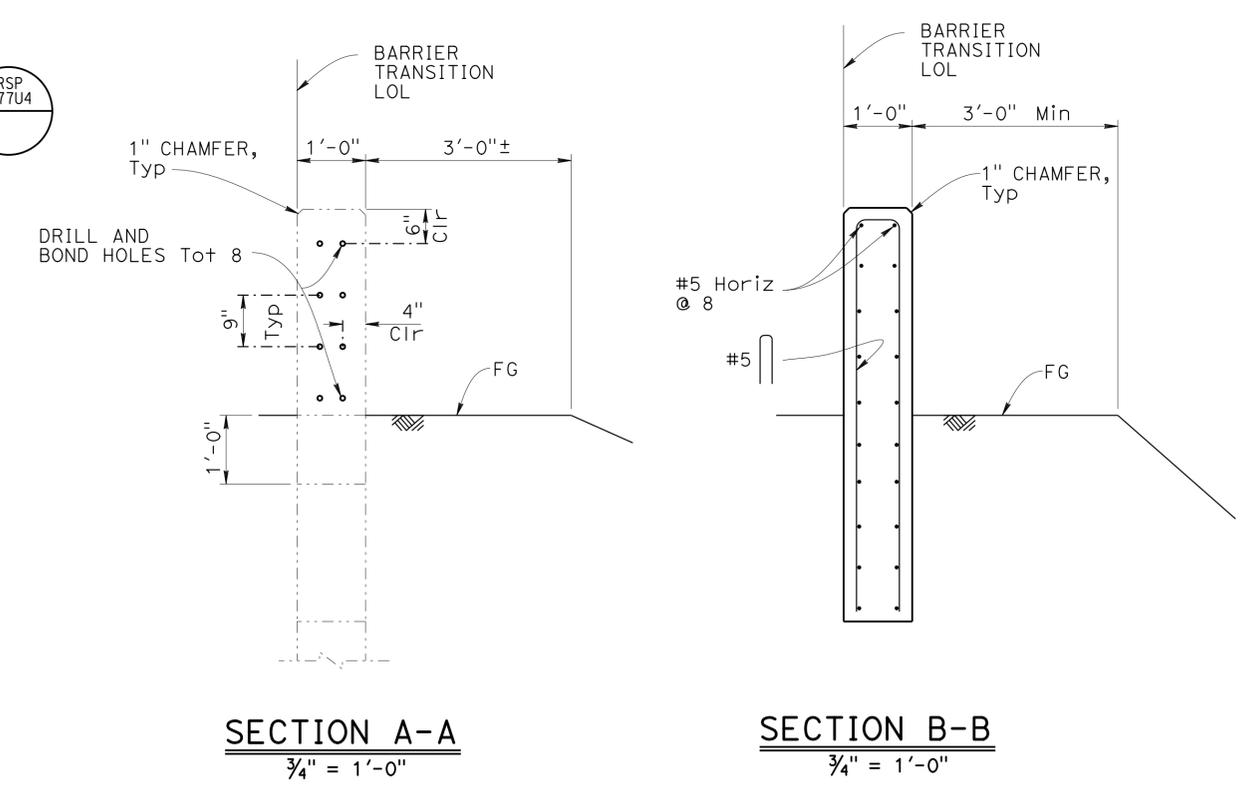
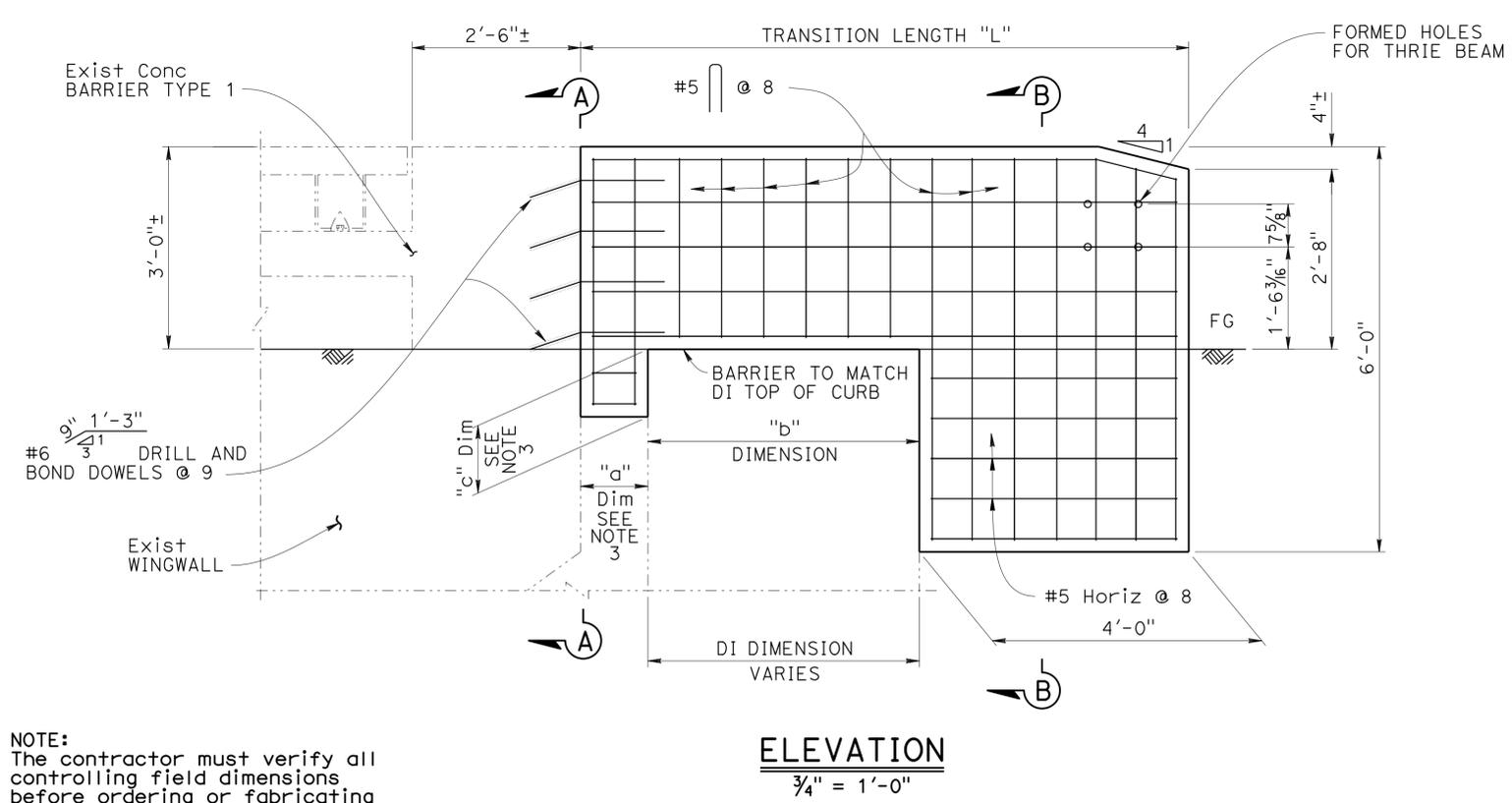
LEGEND:

----- Indicates existing structure

———— Indicates new structure

- NOTES:**
- Holes used for fastening existing MBGR shall be mortar filled, unless holes were cast using pipe sleeves.
 - Existing barrier heights vary. Where exist barrier height is more than 2'-8", transition barrier height to 2'-8" @ 4:1 slope.
 - Elevation detail shows new structure along the DI offset (dimension "a") placed below FG in a trench. Referring to the Drainage Inlet (DI) Table, for a < 1' then c = 6", similarly for 1' < a < 2' then c = 1', otherwise c = 2'-0".
 - Apply 1/2" expansion joint filler to all sides of DI in contact with new formed concrete barrier transition.

| DRAINAGE INLET (DI) TABLE | | | | | | |
|---------------------------|-----------------------|-------|-----------|------------------------------------|----------------------------------|---------------------------------------|
| LOCATION ID No. | BRIDGE No. OR ERS No. | ROUTE | POST MILE | DI OFFSET dimension "a" See Note 3 | DI SIZE dimension "b" See Note 3 | TRANSITION LENGTH, "L" a + b + 4' = L |
| 65W | 33-0309R | 580 | 42.07 | 2'-1" | 4'-8"± | 10'-9"± |
| 66W | 33-0310R | 580 | 42.18 | 2'-7"± | 4'-8"± | 11'-3"± |



NOTE:
The contractor must verify all controlling field dimensions before ordering or fabricating any material.

NOTE:
This sheet applies to location ID: numbers 65W and 66W. For more information see "LOCATION TABLE-ROUTE 580 No. 2" sheet and "ROADWAY PLANS".

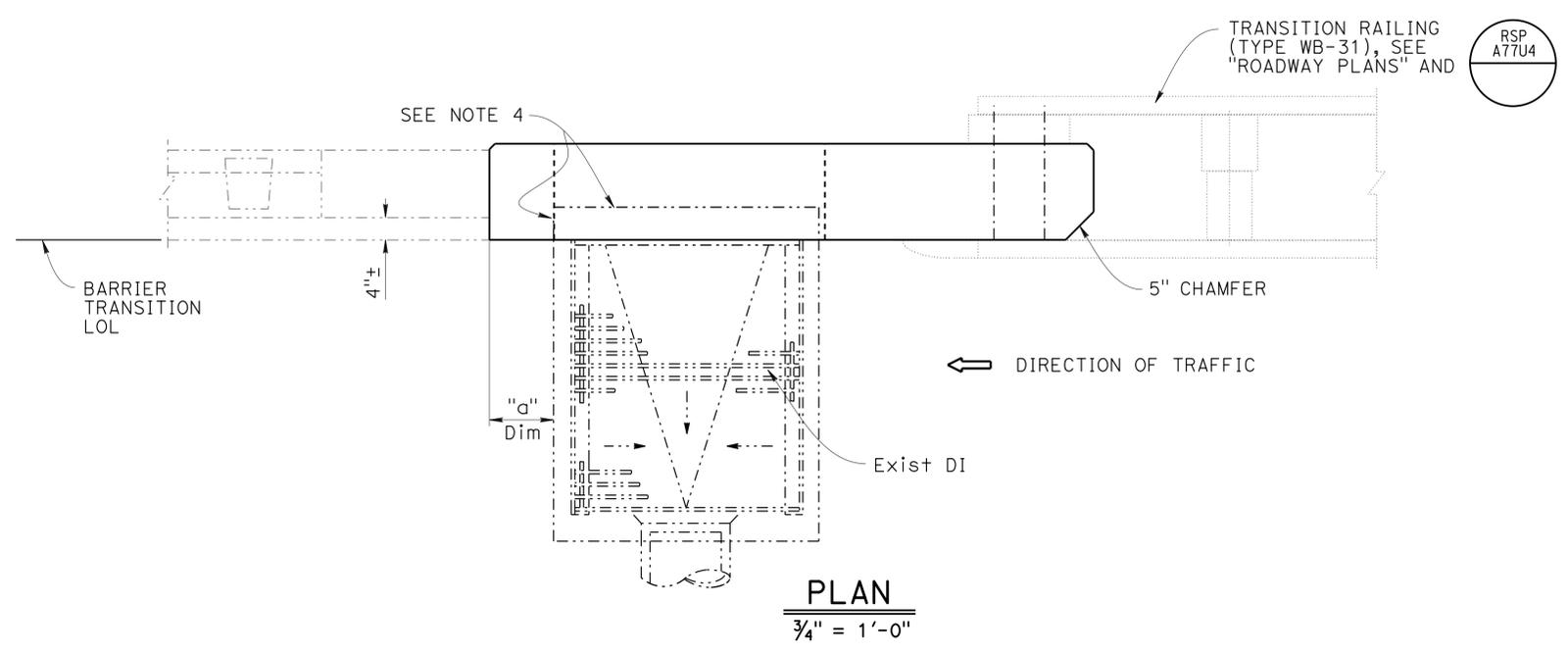
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|---------|--------------------------|-----------|--------------|
| 04 | Ala | 580,680 | Var | 117 | 143 |

Victor O. Lopez 2-19-15
 REGISTERED CIVIL ENGINEER DATE

3-30-15
 PLANS APPROVAL DATE

No. C61373
 Exp. 6/30/15
 CIVIL
 STATE OF CALIFORNIA

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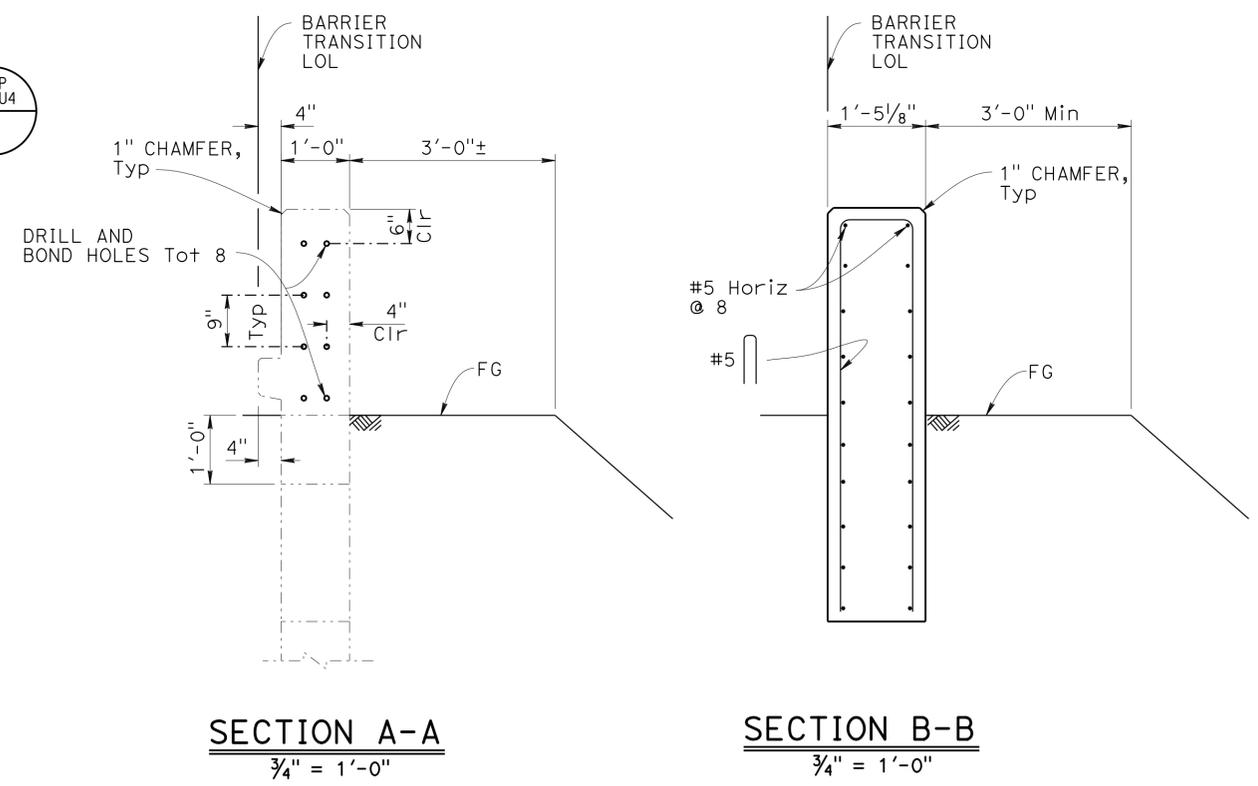
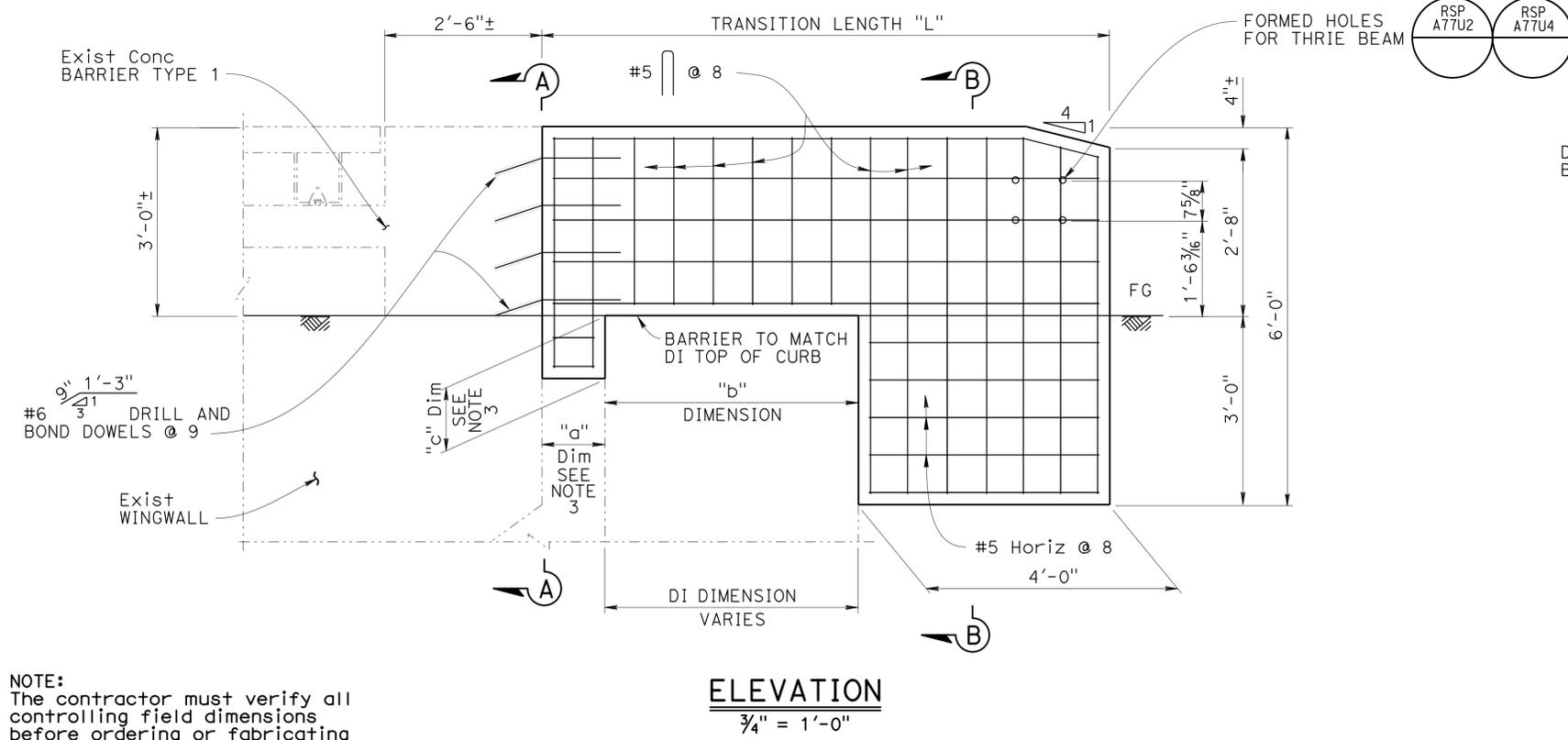
LEGEND:

----- Indicates existing structure

———— Indicates new structure

- NOTES:**
- Holes used for fastening existing MBGR shall be mortar filled, unless holes were cast using pipe sleeves.
 - Existing barrier heights vary. Where exist barrier height is more than 2'-8", transition barrier height to 2'-8" @ 4:1 slope.
 - Elevation detail shows new structure along the DI offset (dimension "a") placed below FG in a trench. Referring to the Drainage Inlet (DI) Table, for a < 1' then c = 6", similarly for 1' < a < 2' then c = 1', otherwise c = 2'-0".
 - Apply 1/2" expansion joint filler to all sides of DI in contact with new formed concrete barrier transition.

| LOCATION ID No. | BRIDGE OR ERS No. | ROUTE | POST MILE | DI OFFSET dimension "a" See Note 3 | DI SIZE dimension "b" See Note 3 | TRANSITION LENGTH, "L" a + b + 4" = L |
|-----------------|-------------------|-------|-----------|------------------------------------|----------------------------------|---------------------------------------|
| 51W | 33-0342 | 580 | 38.92 | 0" | 4'-1"± | 8'-1"± |
| 55 | 33-0316 | 580 | 38.97 | 3'-0" | 4'-6" | 11'-6"± |



NOTE:
 The contractor must verify all controlling field dimensions before ordering or fabricating any material.

NOTE:
 This sheet applies to location ID: numbers 51W and 55. For more information see "LOCATION TABLE-ROUTE 580 No. 2" sheet and "ROADWAY PLANS".

| | | | | | | | |
|-----------------------------------|------------|--------------------------------|------------------------|--|--|---------------------|--|
| BRANCH CHIEF <u>DAVID NEUMANN</u> | DESIGN | BY VICTOR LOPEZ | CHECKED JOEL MAGANA | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES DESIGN AND TECHNICAL SERVICES SPECIAL DESIGNS BRANCH B | BRIDGE NO. | CONCRETE BARRIER TRANSITIONS CONCRETE BARRIER TYPE 1 OVER DI (CASE 2) |
| | DETAILS | BY SHUMEI JIANG BOB EDWARDS | CHECKED JOEL MAGANA | | | VARIES | |
| | QUANTITIES | BY JOEL MAGANA | CHECKED MICHAEL CHARAK | | | POST MILE VARIES | |

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 UNIT: 3619 PROJECT NUMBER & PHASE: 0414000064-1 CONTRACT NO.: 04-205211 DISREGARD PRINTS BEARING EARLIER REVISION DATES

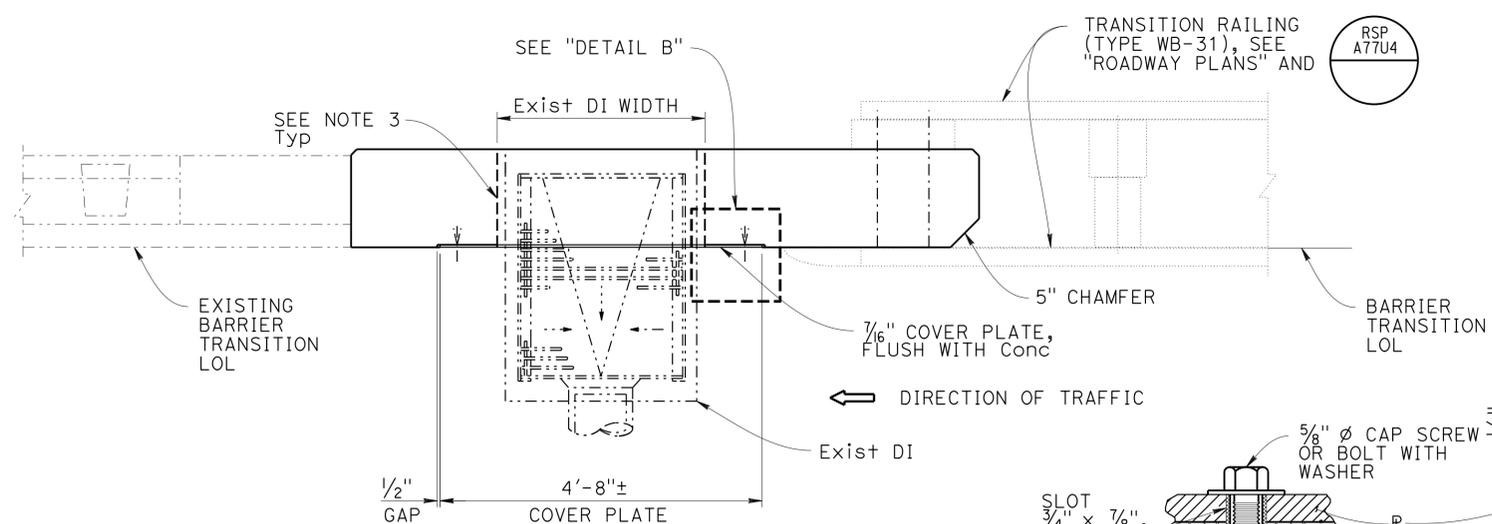
| REVISION DATES | SHEET | OF |
|----------------------------------|-------|----|
| 7-08-14 2-18-15 2-19-15 12-08-15 | 7 | 33 |

FILE => 04-295211_L-misc-d107.dgn

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|---------|--------------------------|-----------|--------------|
| 04 | Ala | 580,680 | Var | 118 | 143 |

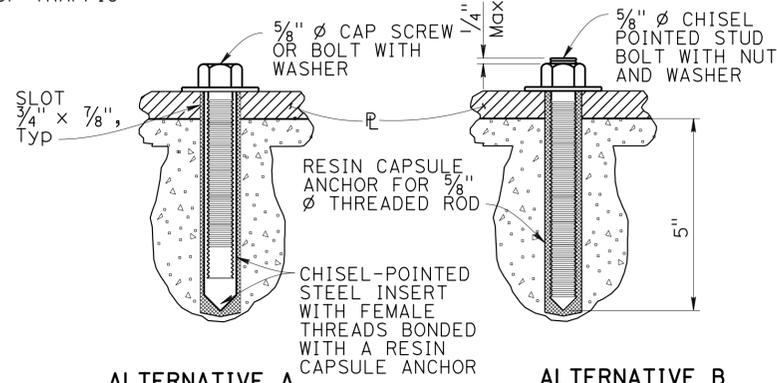
Victor O. Lopez 2-19-15
 REGISTERED CIVIL ENGINEER DATE
 3-30-15
 PLANS APPROVAL DATE
 No. C61373
 Exp. 6/30/15
 CIVIL
 STATE OF CALIFORNIA

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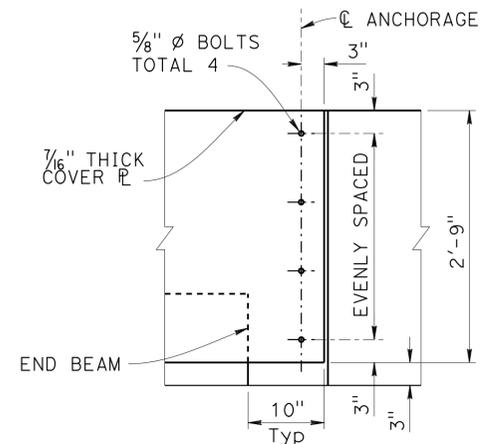


PLAN
3/4" = 1'-0"

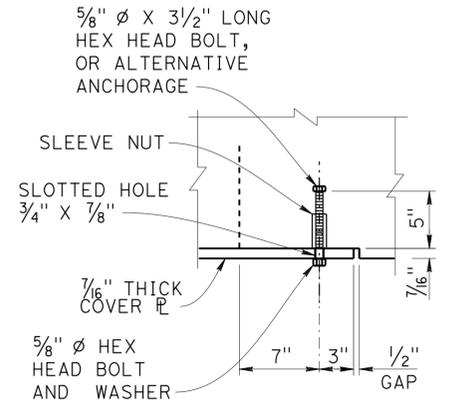
- NOTES:**
- Holes used for fastening existing MBGR shall be mortar filled, unless holes were cast using pipe sleeves.
 - Existing barrier heights vary. Where exist barrier height is more than 2'-8", transition barrier height to 2'-8" @ 4:1 slope.
 - Apply 1/2" expansion joint filler to all sides of DI in contact with new formed concrete barrier transition.
 - All plates and connections must be galvanized.



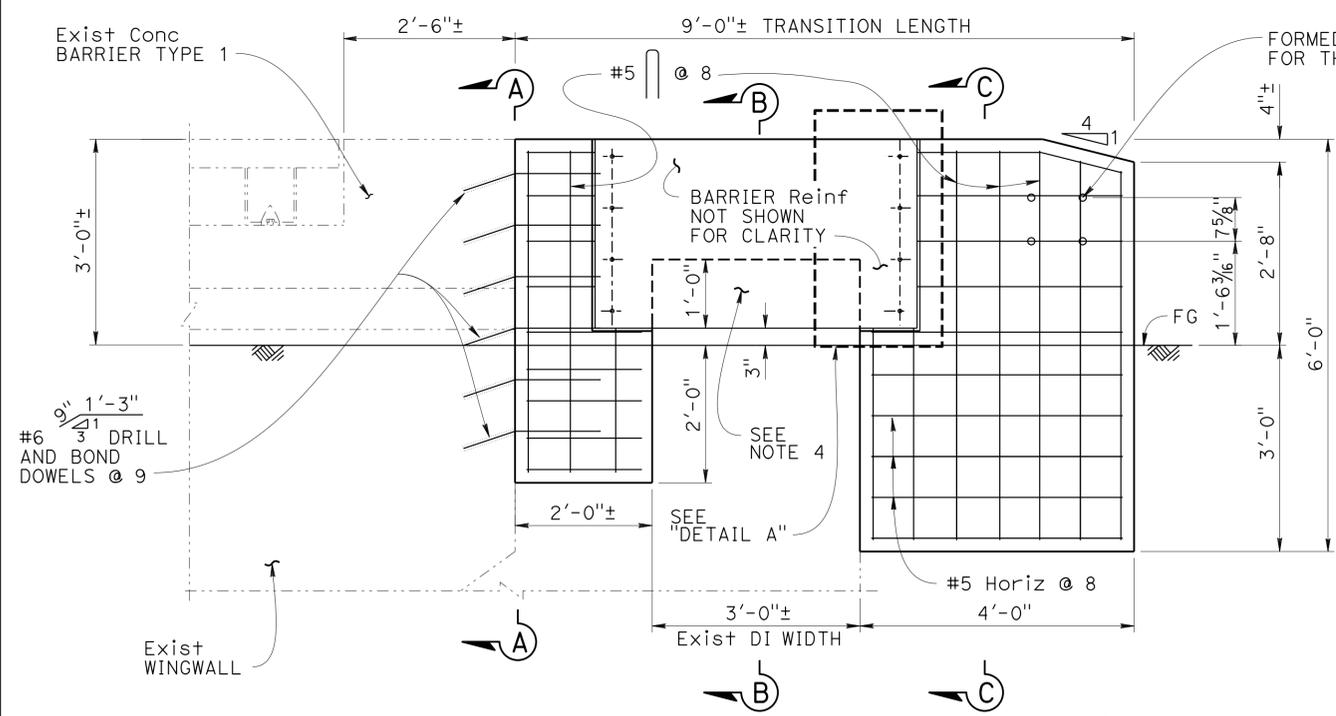
ALTERNATIVE A **ALTERNATIVE B**
ALTERNATIVE ANCHORAGE
NO SCALE



DETAIL A
1" = 1'-0"



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

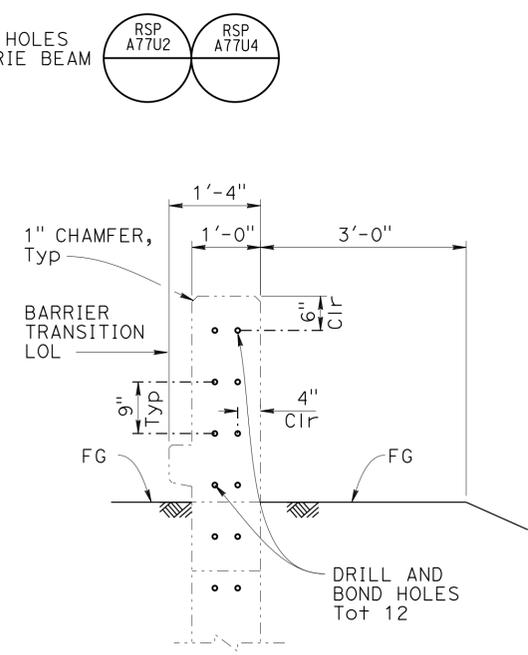


ELEVATION
3/4" = 1'-0"

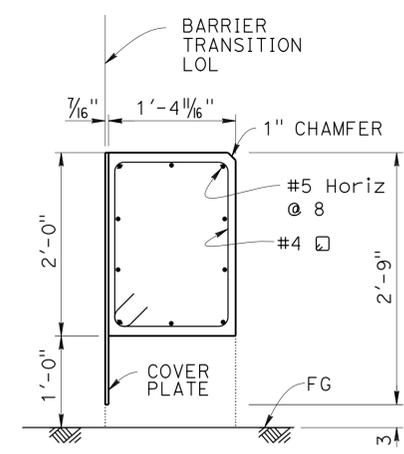
LEGEND:

----- Indicates existing structure

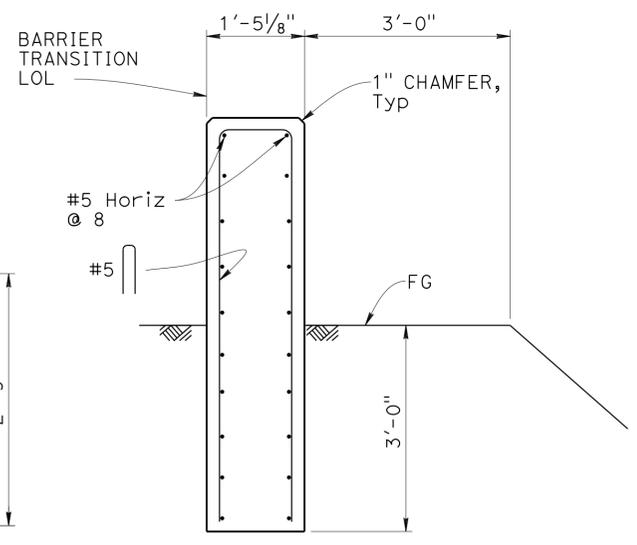
———— Indicates new structure



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



SECTION B-B
1" = 1'-0"



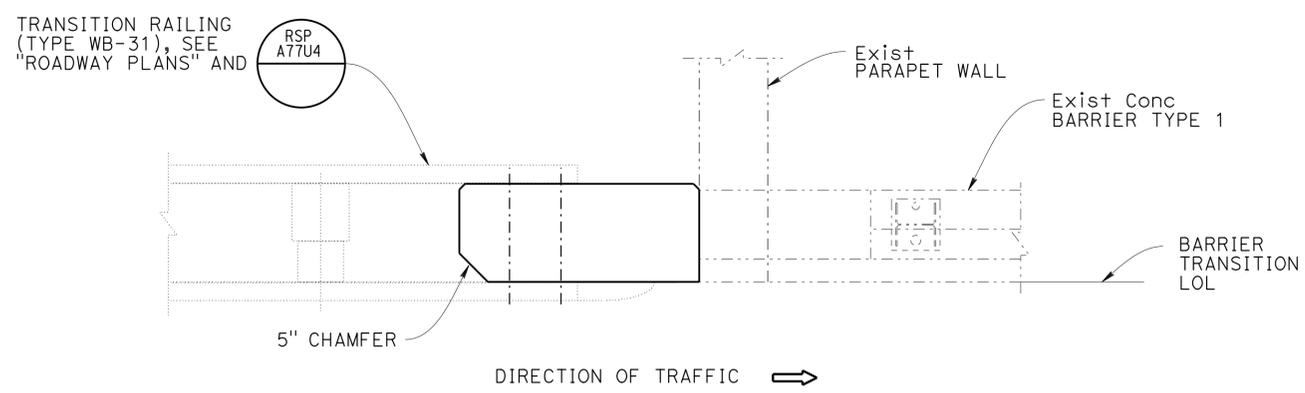
SECTION C-C
3/4" = 1'-0"

NOTE:
The contractor must verify all controlling field dimensions before ordering or fabricating any material.

NOTE:
This sheet applies to location ID: number 81W. For more information see "LOCATION TABLE-ROUTE 580 No. 3" sheet and "ROADWAY PLANS".

| | | | | | | | | |
|--------------|------------|--------------------------------|------------------------|---|--|------------|-----------|--|
| BRANCH CHIEF | DESIGN | BY VICTOR LOPEZ | CHECKED JOEL MAGANA | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES DESIGN AND TECHNICAL SERVICES SPECIAL DESIGNS BRANCH B | BRIDGE NO. | VARIABLES | CONCRETE BARRIER TRANSITIONS CONCRETE BARRIER TYPE 1 OVER DI (CASE 3) |
| | DETAILS | BY SHUMEI JIANG BOB EDWARDS | CHECKED JOEL MAGANA | | | POST MILE | VARIABLES | |
| | QUANTITIES | BY JOEL MAGANA | CHECKED MICHAEL CHARAK | | | VARIES | VARIABLES | |

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|--|--------|---------|--------------------------|---------------------|--------------|
| 04 | Ala | 580,680 | Var | 119 | 143 |
| <i>Victor Lopez</i> 2-19-15 REGISTERED CIVIL ENGINEER DATE | | | | | |
| 3-30-15 | | | | 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> | | | | | |



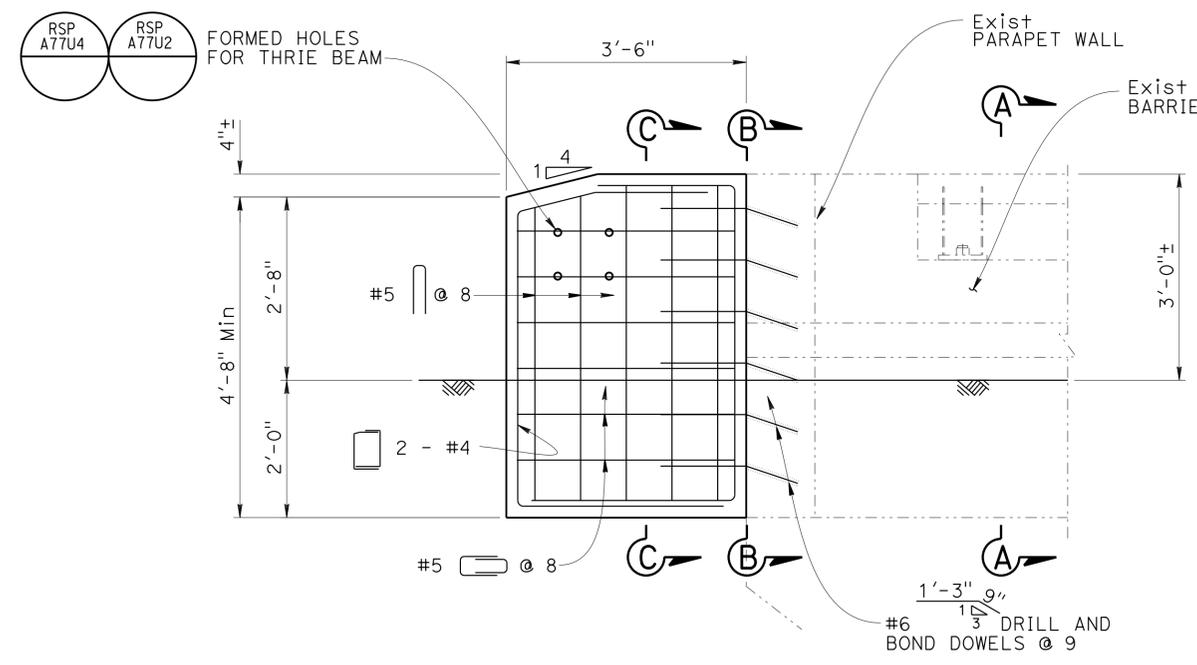
PLAN
 $\frac{3}{4}'' = 1'-0''$

LEGEND:

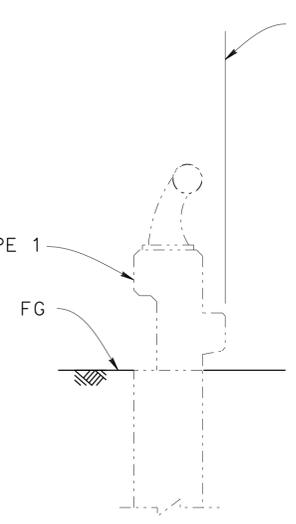
- Indicates existing structure
- Indicates new structure

NOTES:

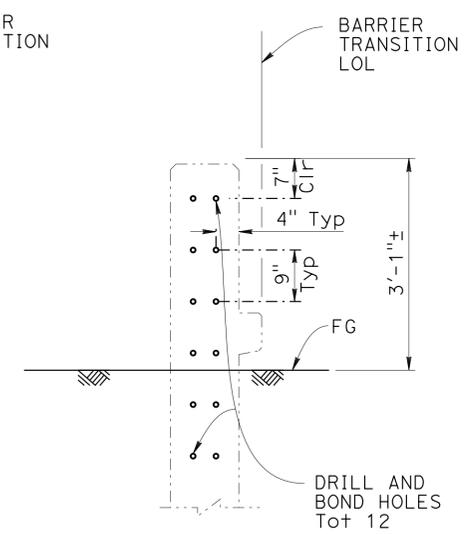
- Holes used for fastening existing MBGR shall be mortar filled, unless holes were cast using pipe sleeves.
- Existing barrier heights vary. Where exist barrier height is more than 2'-8", transition barrier height to 2'-8" @ 4:1 slope.



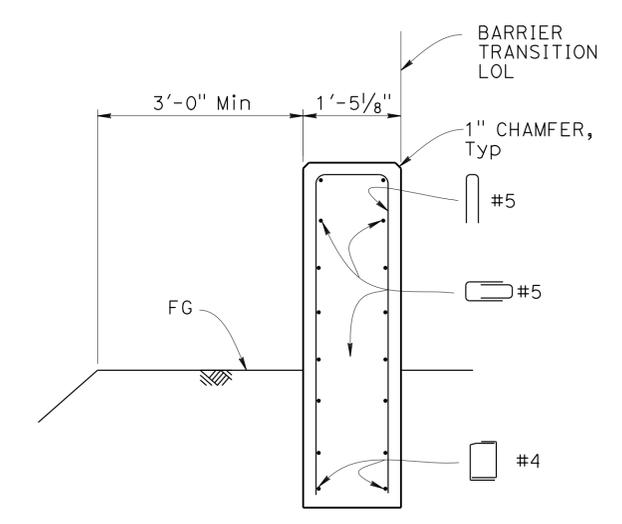
ELEVATION
 $\frac{3}{4}'' = 1'-0''$



SECTION A-A
 $\frac{3}{4}'' = 1'-0''$



SECTION B-B
 $\frac{3}{4}'' = 1'-0''$



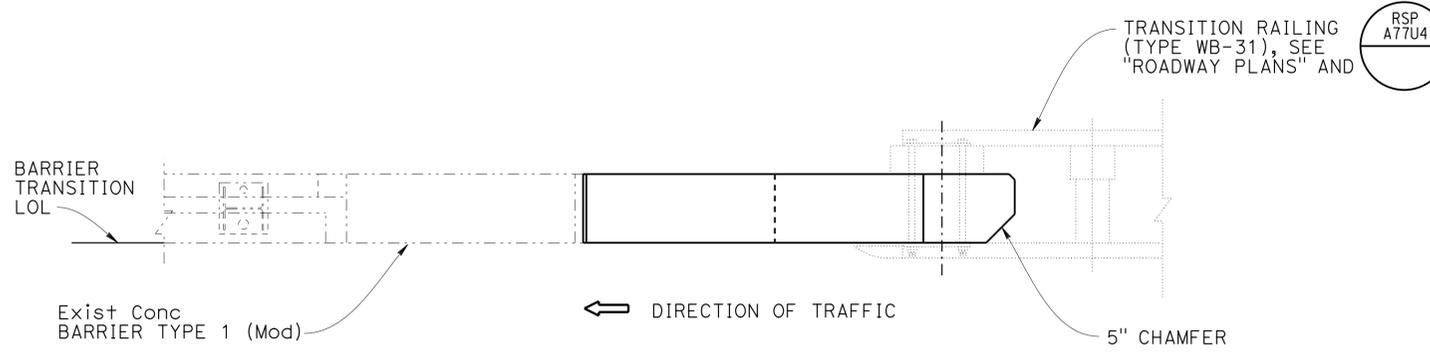
SECTION C-C
 $\frac{3}{4}'' = 1'-0''$

NOTE:
 The contractor must verify all controlling field dimensions before ordering or fabricating any material.

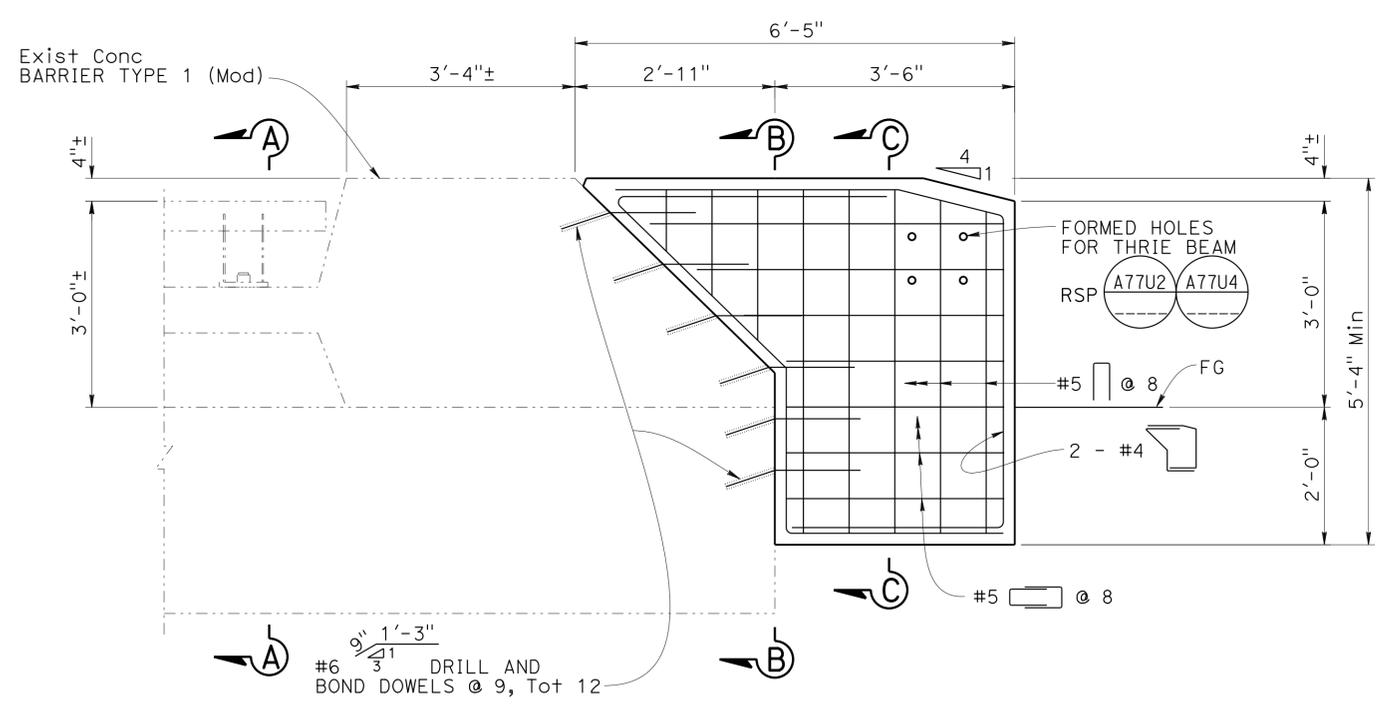
NOTE:
 This sheet applies to location ID: number 85L. For more information see "LOCATION TABLE-ROUTE 580 No. 3" sheet and "ROADWAY PLANS".

| BRANCH CHIEF <u>DAVID NEUMANN</u> | DESIGN | BY VICTOR LOPEZ | CHECKED JOEL MAGANA | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES DESIGN AND TECHNICAL SERVICES SPECIAL DESIGNS BRANCH B | BRIDGE NO. | 33-0280 | CONCRETE BARRIER TRANSITIONS CONCRETE BARRIER TYPE 1 WITH PARAPET WALL | | | | | | | | |
|--|------------|--------------------------------|------------------------|--|--|------------|--------------------------------------|---|---|--|----------------|-------|----|---------------------------------|---|----|
| | DETAILS | BY SHUMEI JIANG BOB EDWARDS | CHECKED JOEL MAGANA | | | POST MILE | 45.94 | | | | | | | | | |
| | QUANTITIES | BY JOEL MAGANA | CHECKED MICHAEL CHARAK | | | | | | | | | | | | | |
| STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10) | | | | ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | 0 1 2 3 | UNIT: 3619 | PROJECT NUMBER & PHASE: 0414000064-1 | CONTRACT NO.: 04-205211 | DISREGARD PRINTS BEARING EARLIER REVISION DATES | <table border="1"> <tr> <th>REVISION DATES</th> <th>SHEET</th> <th>OF</th> </tr> <tr> <td>7-08-14 2-12-15 3-28-14 1-24-15</td> <td>9</td> <td>33</td> </tr> </table> | REVISION DATES | SHEET | OF | 7-08-14 2-12-15 3-28-14 1-24-15 | 9 | 33 |
| REVISION DATES | SHEET | OF | | | | | | | | | | | | | | |
| 7-08-14 2-12-15 3-28-14 1-24-15 | 9 | 33 | | | | | | | | | | | | | | |

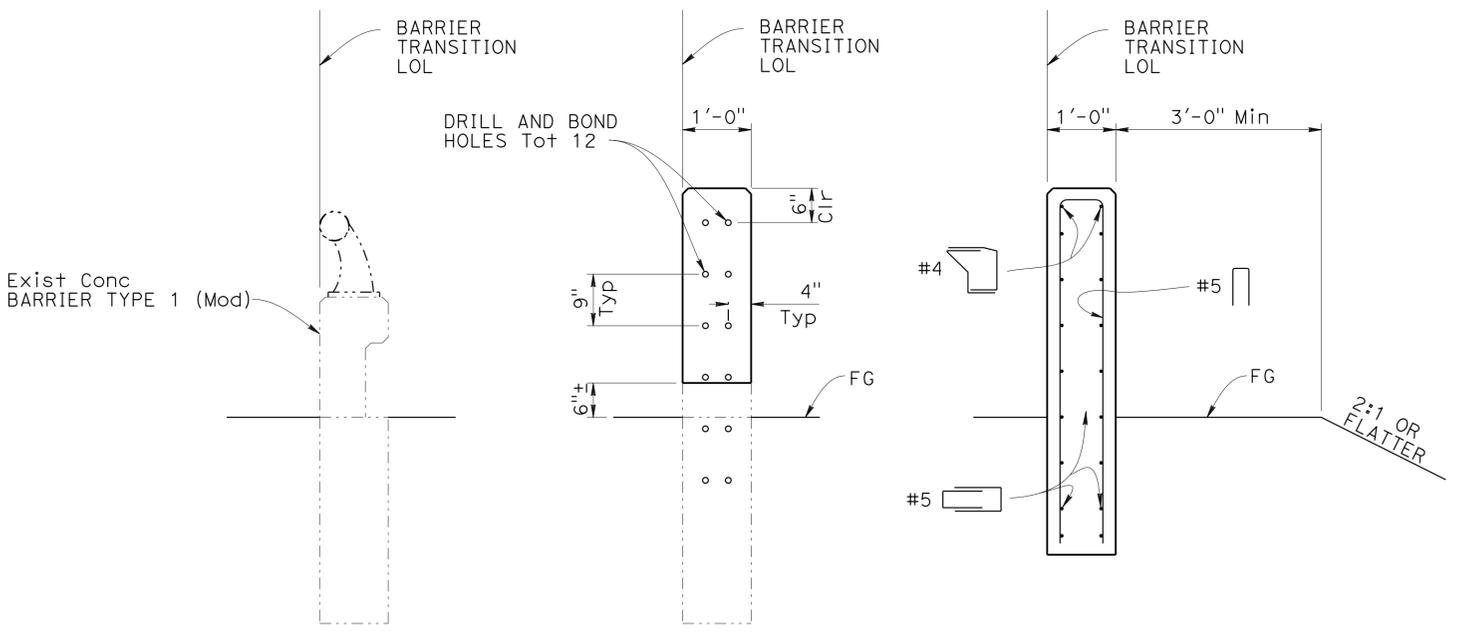
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|--|--------|---------|--------------------------|---------------------|--------------|
| 04 | Ala | 580,680 | Var | 120 | 143 |
| <i>Victor Lopez</i> 2-19-15 REGISTERED CIVIL ENGINEER DATE | | | | | |
| 3-30-15 | | | | PLANS APPROVAL DATE | |
| <i>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.</i> | | | | | |



PLAN
 $\frac{3}{4}'' = 1'-0''$



ELEVATION
 $\frac{3}{4}'' = 1'-0''$



SECTION A-A
 $\frac{3}{4}'' = 1'-0''$

SECTION B-B
 $\frac{3}{4}'' = 1'-0''$

SECTION C-C
 $\frac{3}{4}'' = 1'-0''$

NOTE:
 The contractor must verify all controlling field dimensions before ordering or fabricating any material.

NOTE:
 This sheet applies to location ID: number 144. For more information see "LOCATION TABLE-ROUTE 680 No. 1" sheet and "ROADWAY PLANS".

BRANCH CHIEF DAVID NEUMANN

| | | |
|------------|--------------------------------|------------------------|
| DESIGN | BY VICTOR LOPEZ | CHECKED JOEL MAGANA |
| DETAILS | BY SHUMEI JIANG BOB EDWARDS | CHECKED JOEL MAGANA |
| QUANTITIES | BY JOEL MAGANA | CHECKED MICHAEL CHARAK |

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

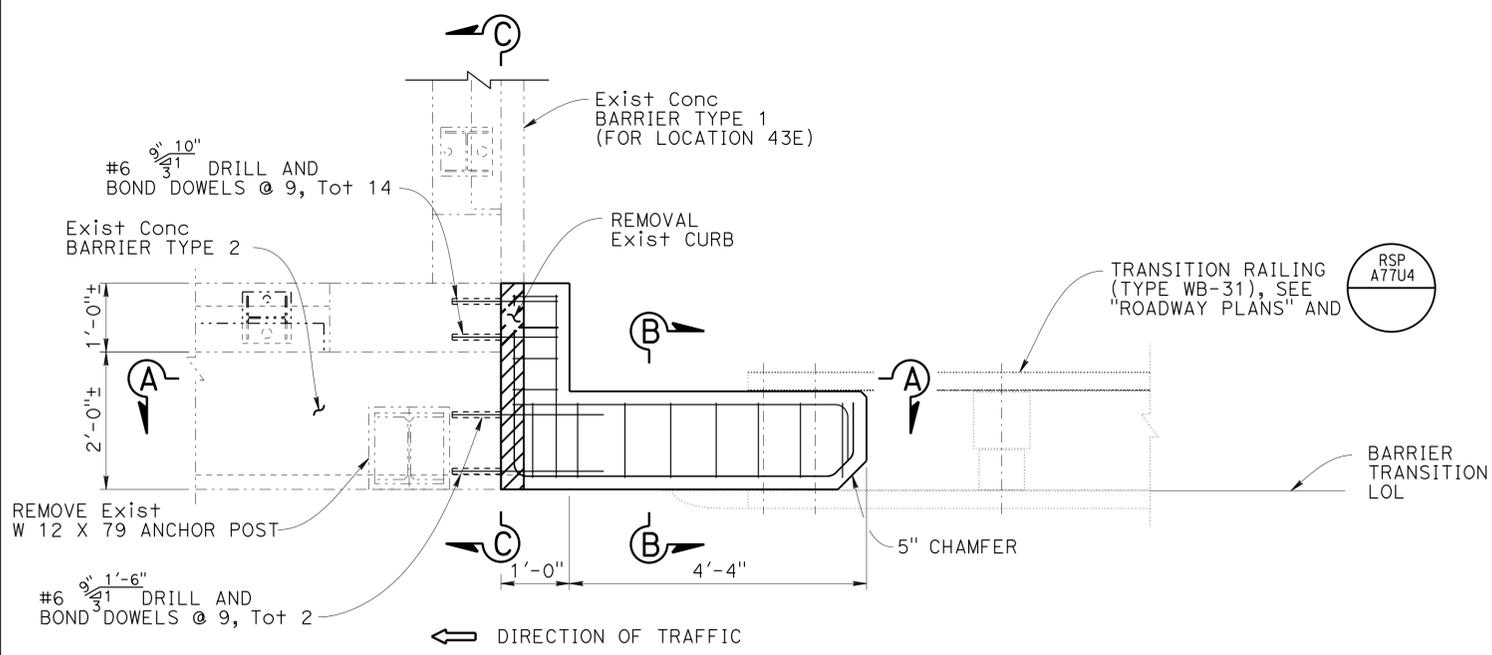
DIVISION OF ENGINEERING SERVICES
 DESIGN AND TECHNICAL SERVICES
SPECIAL DESIGNS BRANCH B

| | |
|------------|---------|
| BRIDGE NO. | 33-0429 |
| POST MILE | 3.348 |

CONCRETE BARRIER TRANSITIONS
CONCRETE BARRIER TYPE 1 (MOD)

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|---------|--------------------------|-----------|--------------|
| 04 | Ala | 580,680 | Var | 121 | 143 |

Victor O. Lopez 2-19-15
 REGISTERED CIVIL ENGINEER DATE
 3-30-15
 PLANS APPROVAL DATE
 No. C61373
 Exp. 6/30/15
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 STATE OF CALIFORNIA
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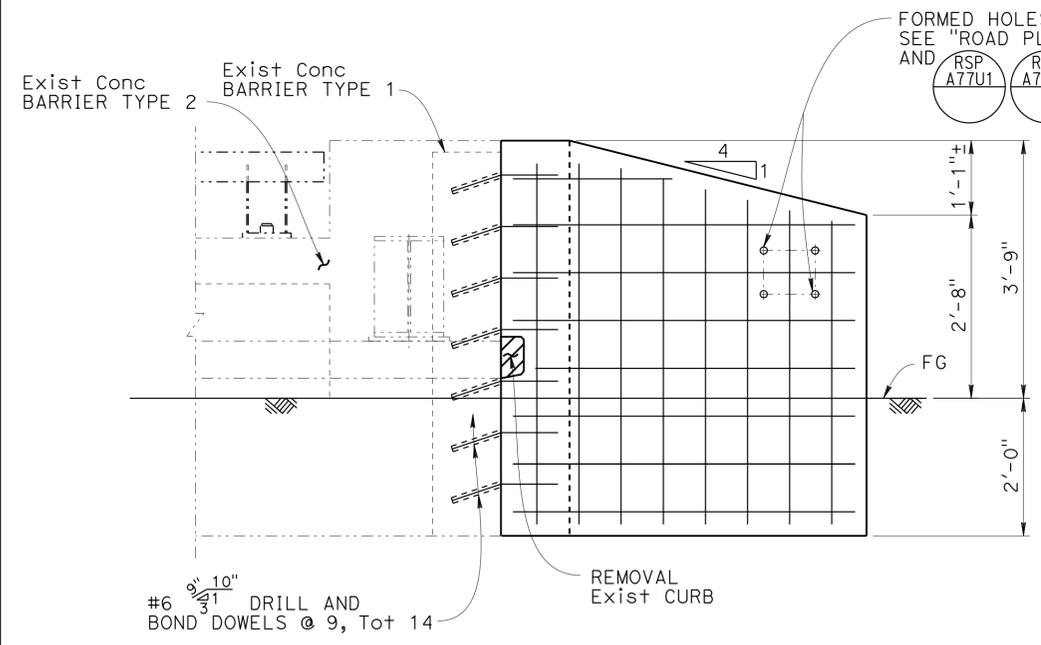
PLAN
 $\frac{3}{4}" = 1'-0"$

LEGEND:

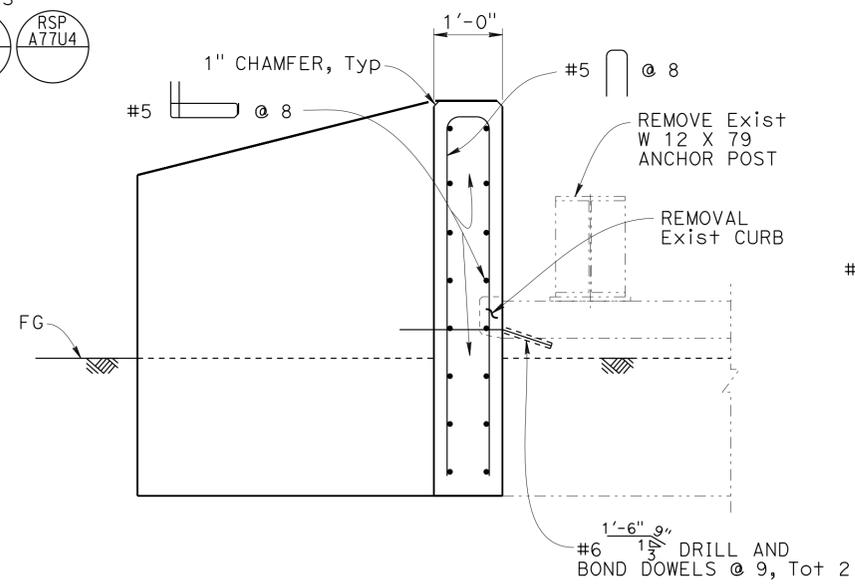
- Indicates existing structure
- Indicates new structure

NOTES:

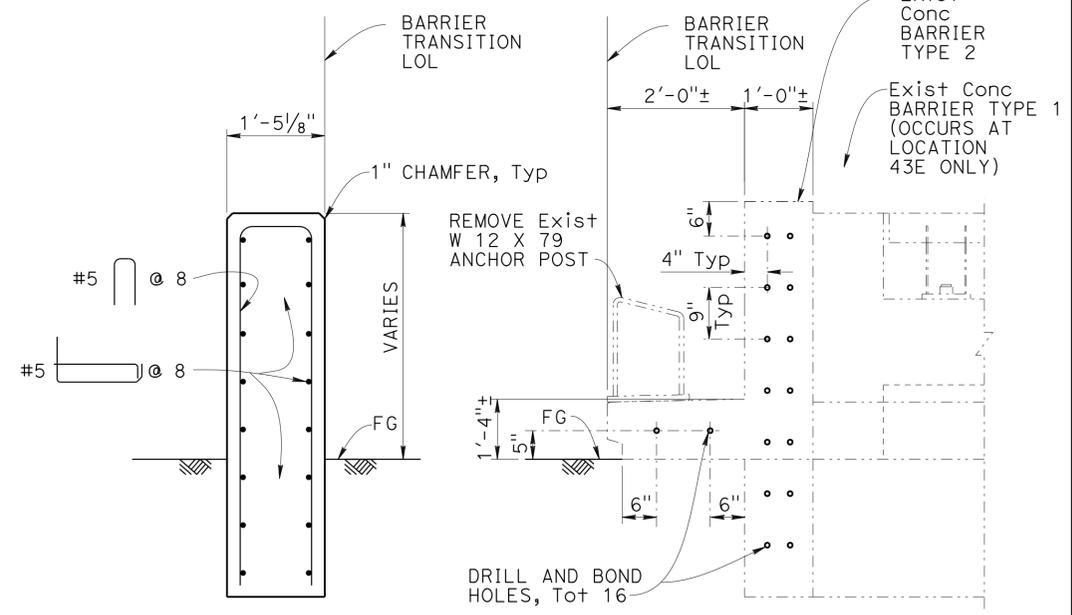
- Holes used for fastening existing MBGR shall be mortar filled, unless holes were cast using pipe sleeves.
- Existing barrier heights vary. Where exist barrier height is more than 2'-8", transition barrier height to 2'-8" @ 4:1 slope.



ELEVATION
 $\frac{3}{4}" = 1'-0"$



SECTION A-A
 $\frac{3}{4}" = 1'-0"$



SECTION B-B
 $\frac{3}{4}" = 1'-0"$

SECTION C-C
 $\frac{3}{4}" = 1'-0"$

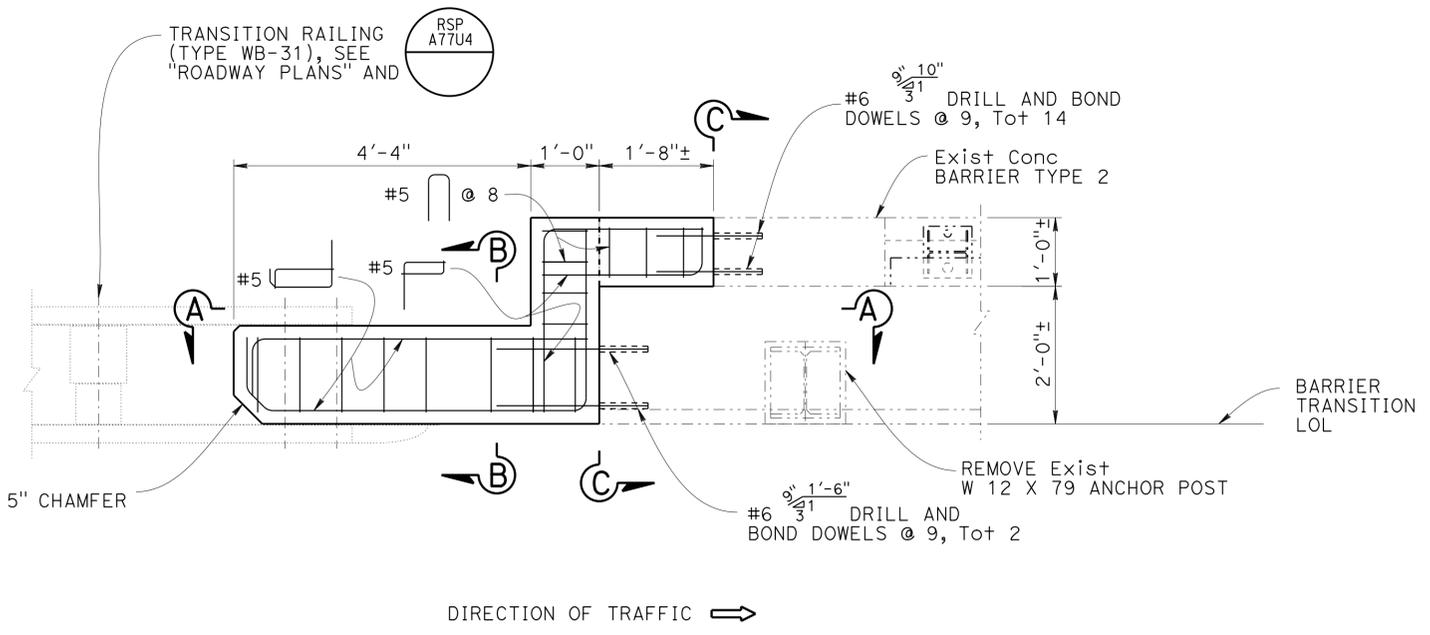
NOTE:
The contractor must verify all controlling field dimensions before ordering or fabricating any material.

NOTE:

This sheet applies to location ID: numbers 38L, 43E, 44L, 52, 56, 60, 73 and 78 on ROUTE 580 and 157 ramp on ROUTE 680. For more information see "LOCATION TABLE-ROUTE 580 No.3" sheet and "LOCATION TABLE- ROUTE 680 No. 1" sheet and "ROADWAY PLANS".

| | | | | | | | | | | |
|--|------------|--------------------------------|------------------------|---|--|--|-------------------------|--|----------------|----------------|
| BRANCH CHIEF DAVID NEUMANN | DESIGN | BY VICTOR LOPEZ | CHECKED JOEL MAGANA | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES DESIGN AND TECHNICAL SERVICES SPECIAL DESIGNS BRANCH B | BRIDGE NO. | VARIES | CONCRETE BARRIER TRANSITIONS CONCRETE BARRIER TYPE 2 (CASE 1) | | |
| | DETAILS | BY SHUMEI JIANG BOB EDWARDS | CHECKED JOEL MAGANA | | | POST MILE | VARIES | | | |
| | QUANTITIES | BY JOEL MAGANA | CHECKED MICHAEL CHARAK | | | VARIES | | | | |
| STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10) | | | | ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | 0 1 2 3 | UNIT: 3619 PROJECT NUMBER & PHASE: 0414000064-1 | CONTRACT NO.: 04-205211 | DISREGARD PRINTS BEARING EARLIER REVISION DATES | REVISION DATES | SHEET 11 OF 33 |

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|--------|---------|--------------------------|---------------------------|---------------------|
| 04 | Ala | 580,680 | Var | 122 | 143 |
| | | | | REGISTERED CIVIL ENGINEER | DATE |
| | | | | 3-30-15 | 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. | | | | | |



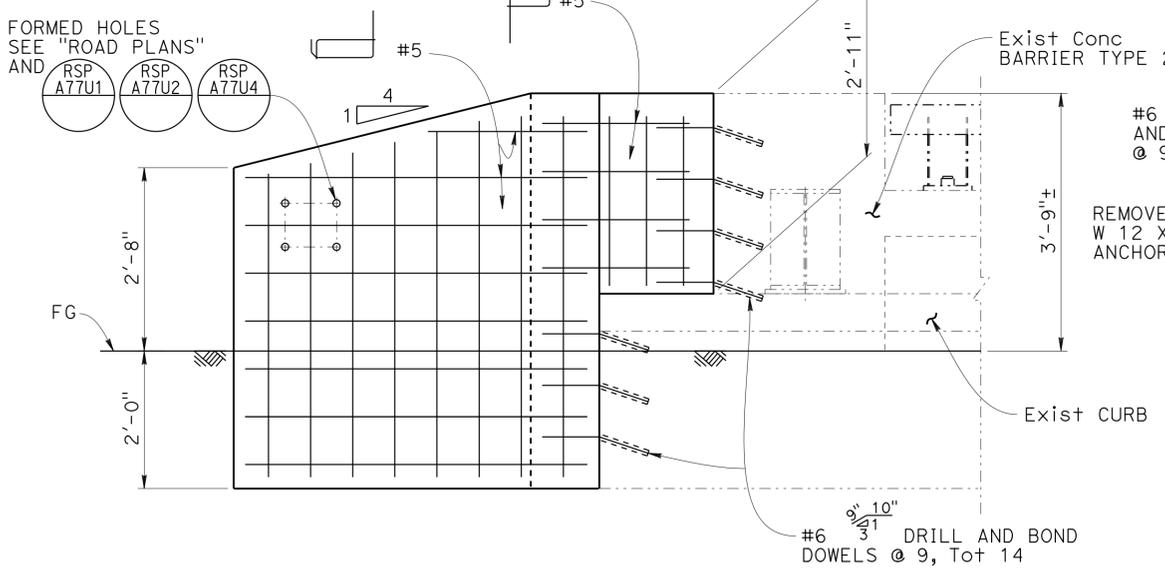
PLAN
3/4" = 1'-0"

LEGEND:

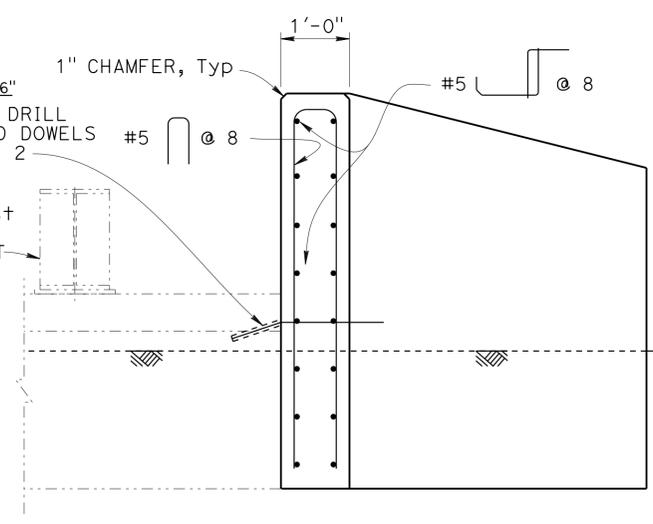
- Indicates existing structure
- Indicates new structure

NOTES:

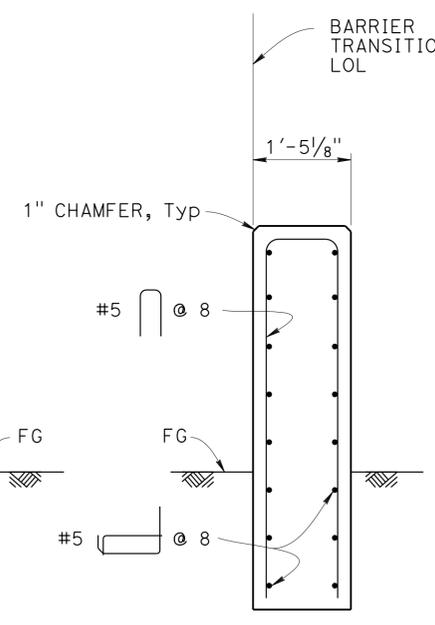
- Holes used for fastening existing MBGR shall be mortar filled, unless holes were cast using pipe sleeves.
- Existing barrier heights vary. Where exist barrier height is more than 2'-8", transition barrier height to 2'-8" @ 4:1 slope.



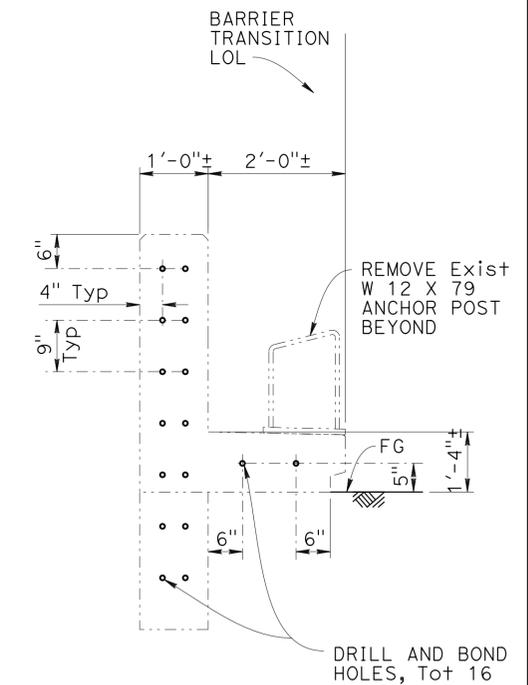
ELEVATION
3/4" = 1'-0"



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



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



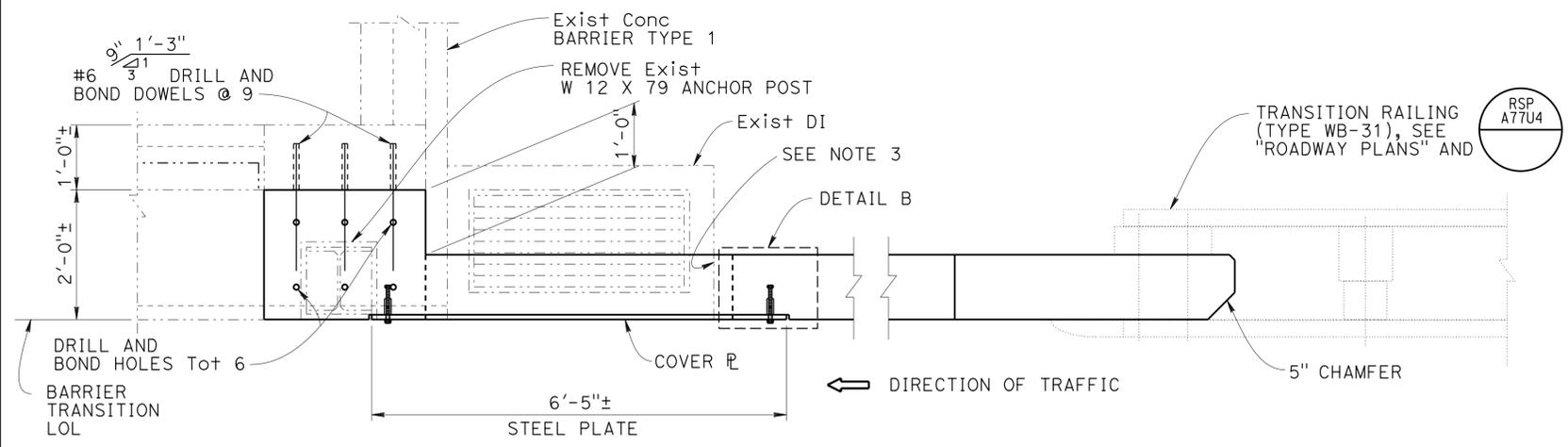
SECTION C-C
3/4" = 1'-0"

NOTE:
The contractor must verify all controlling field dimensions before ordering or fabricating any material.

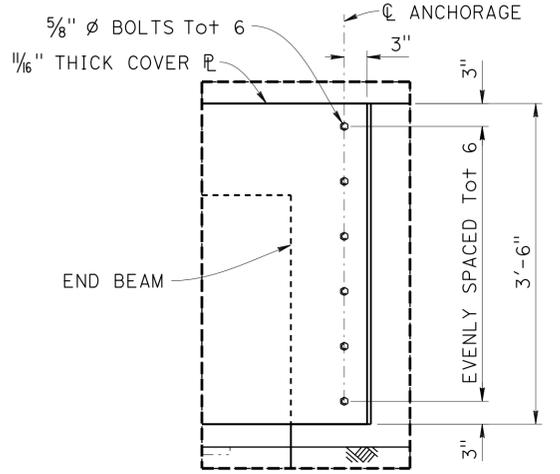
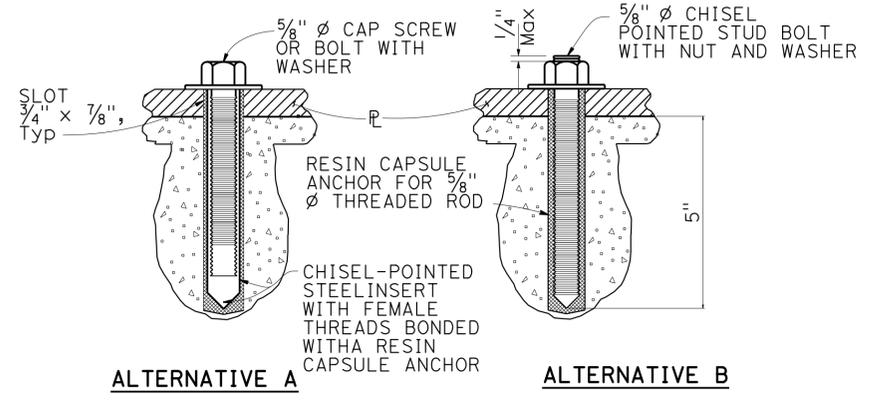
NOTE:
This sheet applies to location ID: number 64L. For more information see "LOCATION TABLE-ROUTE 580 No. 3" sheet and "ROADWAY PLANS".

| | | | | | | | | | | | |
|--|------------|--------------------------------|------------------------|--|--|------------|--------------------------------------|--|---|---|----------------|
| BRANCH CHIEF <u>DAVID NEUMANN</u> | DESIGN | BY VICTOR LOPEZ | CHECKED JOEL MAGANA | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES DESIGN AND TECHNICAL SERVICES SPECIAL DESIGNS BRANCH B | BRIDGE NO. | VARIABLES | CONCRETE BARRIER TRANSITIONS CONCRETE BARRIER TYPE 2 (CASE 2) | | | |
| | DETAILS | BY SHUMEI JIANG BOB EDWARDS | CHECKED JOEL MAGANA | | | POST MILE | VARIABLES | | | | |
| | QUANTITIES | BY JOEL MAGANA | CHECKED MICHAEL CHARAK | | | VARIES | VARIABLES | | | | |
| STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10) | | | | ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | 0 1 2 3 | UNIT: 3619 | PROJECT NUMBER & PHASE: 0414000064-1 | CONTRACT NO.: 04-205211 | DISREGARD PRINTS BEARING EARLIER REVISION DATES | REVISION DATES 7-08-14 2-12-15 3-28-14 1-14-15 | SHEET 12 OF 33 |

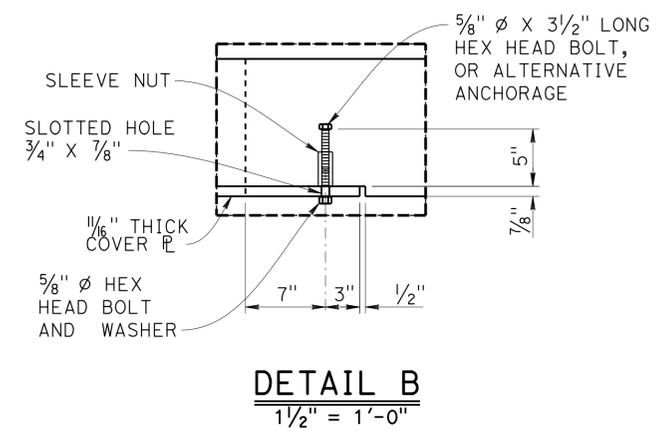
| | | | | | |
|---|--------|---------|--------------------------|--|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 04 | Ala | 580,680 | Var | 123 | 143 |
| <i>Victor Lopez</i> 2-19-15 REGISTERED CIVIL ENGINEER DATE | | | | No. C61373 Exp. 6/30/15 CIVIL STATE OF CALIFORNIA | |
| 3-30-15 PLANS APPROVAL DATE | | | | | |
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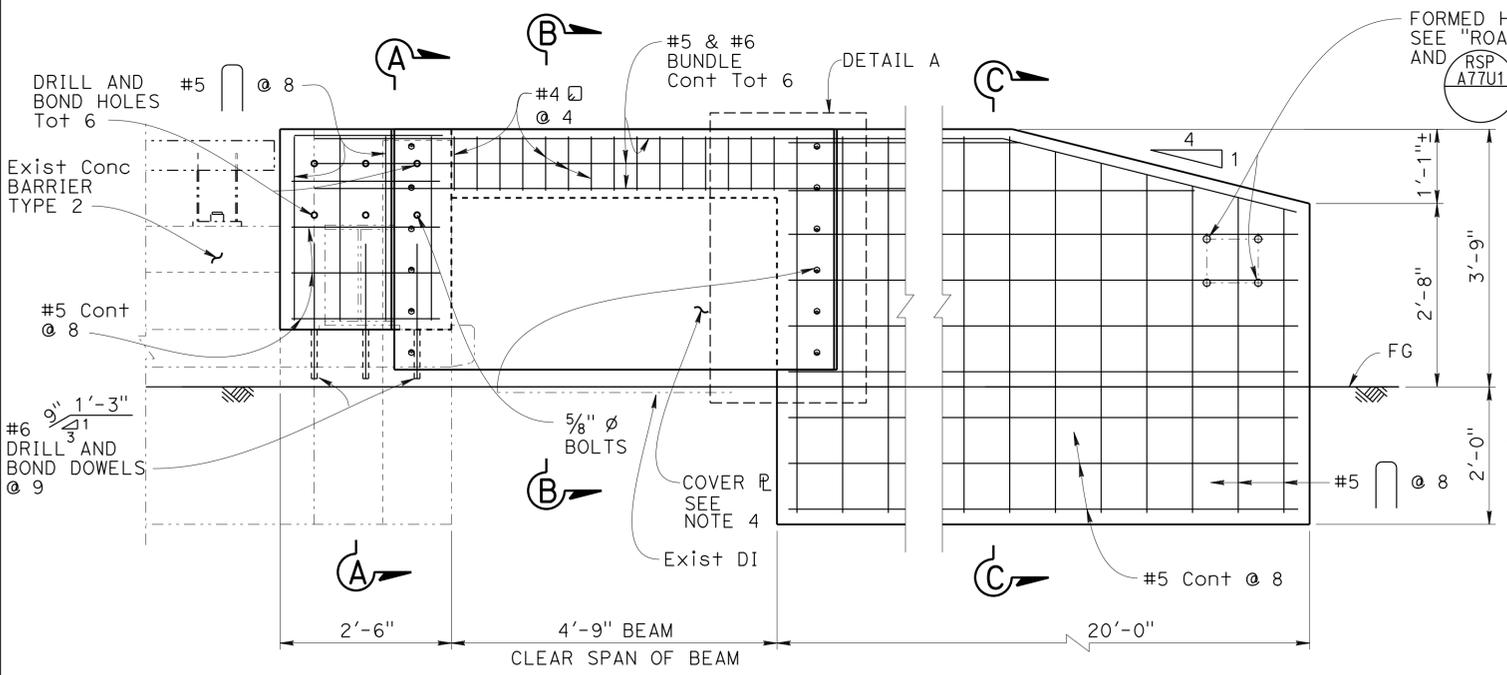
PLAN
 $\frac{3}{4}" = 1'-0"$



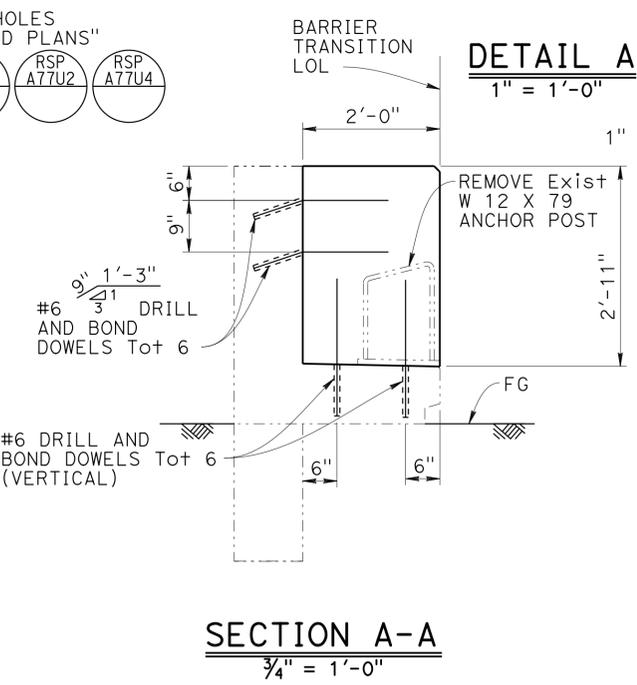
DETAIL A
 $1" = 1'-0"$



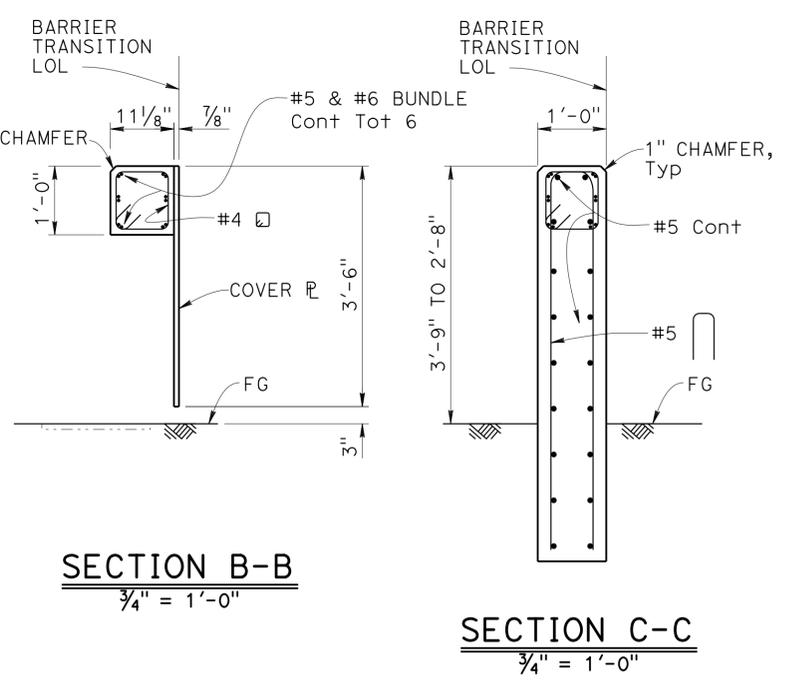
DETAIL B
 $1\frac{1}{2}" = 1'-0"$



ELEVATION
 $\frac{3}{4}" = 1'-0"$



SECTION A-A
 $\frac{3}{4}" = 1'-0"$



SECTION B-B
 $\frac{3}{4}" = 1'-0"$

SECTION C-C
 $\frac{3}{4}" = 1'-0"$

NOTE:
 The contractor must verify all controlling field dimensions before ordering or fabricating any material.

LEGEND:
 - - - - - Indicates existing structure
 ———— Indicates new structure

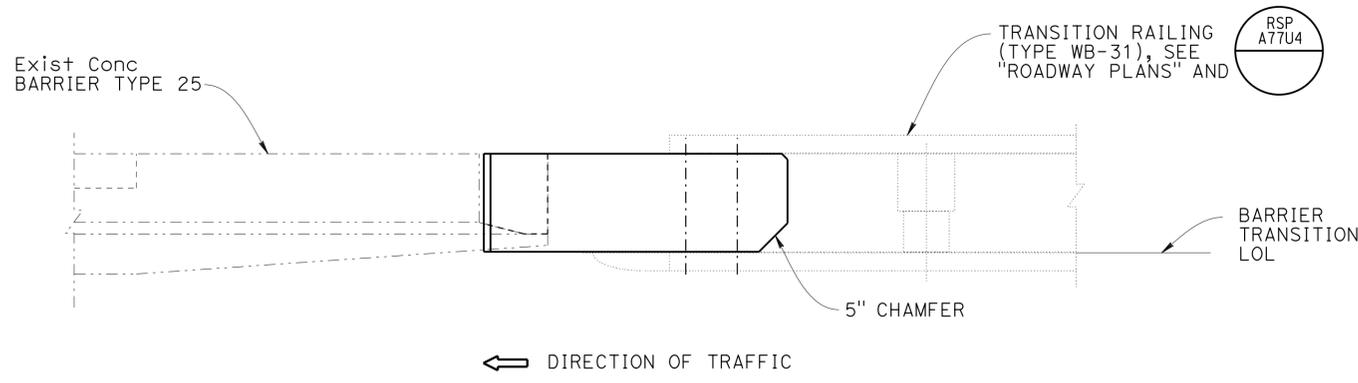
NOTE:
 This sheet applies to location ID: number 42E. For more information see "LOCATION TABLE-ROUTE 580 No. 3" sheet and "ROADWAY PLANS".

| | | | | | | | | |
|-------------------------------|------------|--------------------------------|------------------------|---|--|------------|-----------|---|
| BRANCH CHIEF DAVID NEUMANN | DESIGN | BY VICTOR LOPEZ | CHECKED JOEL MAGANA | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES DESIGN AND TECHNICAL SERVICES SPECIAL DESIGNS BRANCH B | BRIDGE NO. | VARIABLES | CONCRETE BARRIER TRANSITIONS CONCRETE BARRIER TYPE 2 OVER DI |
| | DETAILS | BY SHUMEI JIANG BOB EDWARDS | CHECKED JOEL MAGANA | | | POST MILE | VARIABLES | |
| | QUANTITIES | BY JOEL MAGANA | CHECKED MICHAEL CHARAK | | | VARIES | VARIABLES | |

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|---------|--------------------------|-----------|--------------|
| 04 | Ala | 580,680 | Var | 124 | 143 |

REGISTERED CIVIL ENGINEER *Victor Lopez* DATE 2-19-15
 PLANS APPROVAL DATE 3-30-15
 No. C61373
 Exp. 6/30/15
 CIVIL
 STATE OF CALIFORNIA

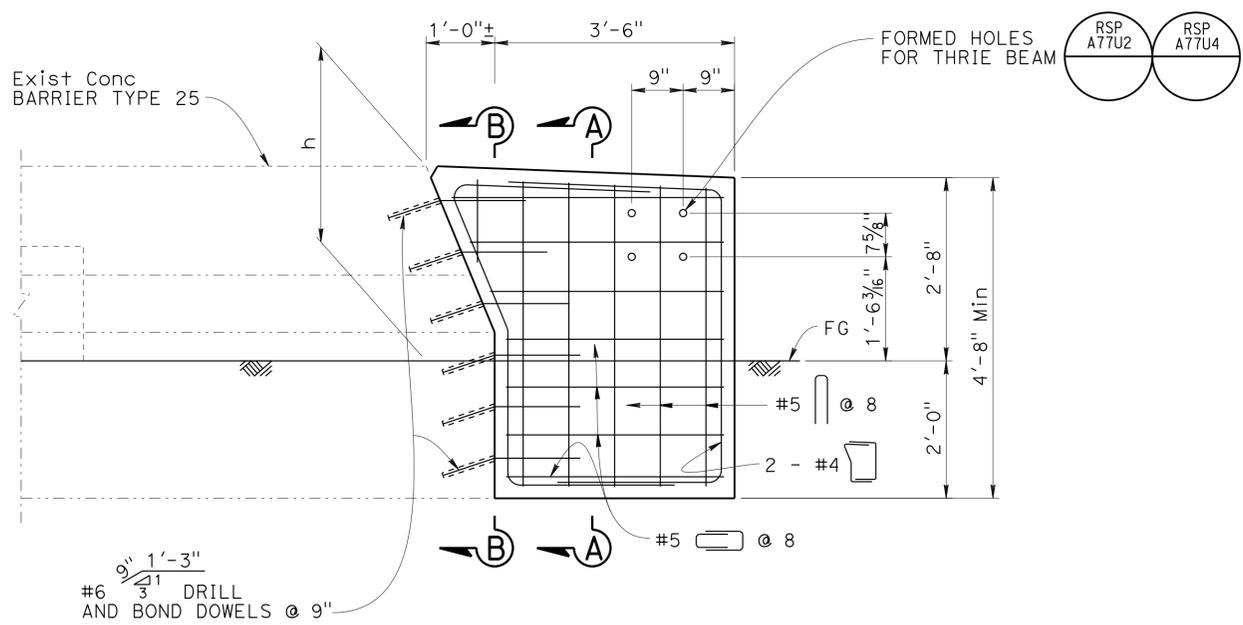
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.



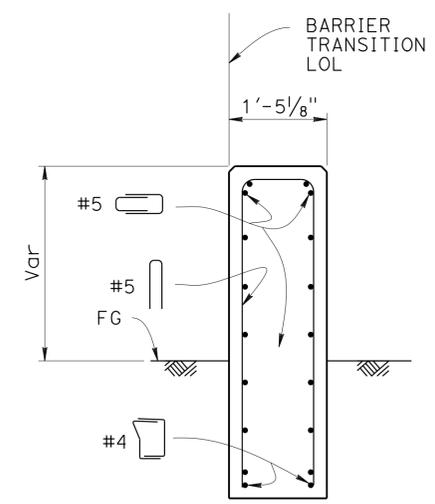
PLAN
3/4" = 1'-0"

LEGEND:
 - - - - - Indicates existing structure
 ———— Indicates new structure

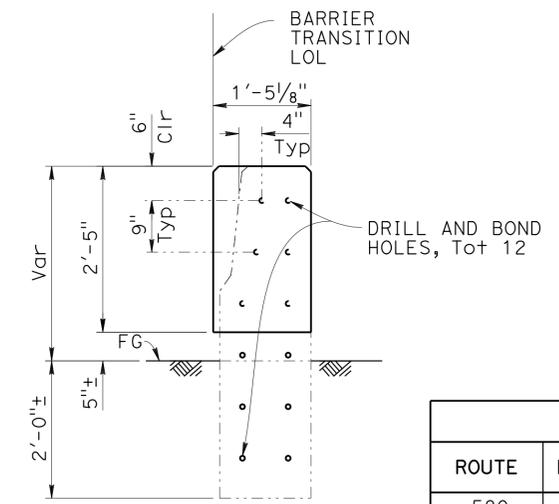
- NOTES:**
- Holes used for fastening existing MBGR shall be mortar filled, unless holes were cast using pipe sleeves.
 - Existing barrier heights vary. Where exist barrier height is more than 2'-8", transition barrier height to 2'-8" @ 4:1 slope.



ELEVATION
3/4" = 1'-0"



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



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

| ROUTE | LOCATION | "h" |
|-------|----------|---------|
| 580 | 13 | 2'-9"± |
| 580 | 32L | 2'-10"± |
| 580 | 32R | 2'-11"± |
| 580 | 33 | 2'-10"± |
| 580 | 34 | 3'-1"± |
| 680 | 158 | 2'-10"± |
| 680 | 137 | 2'-10"± |
| 680 | 155L/R | 2'-10"± |
| 680 | 156 | 2'-10"± |
| 680 | 159L/R | 2'-10"± |
| 680 | 160 | 2'-10"± |

NOTE:
 The contractor must verify all controlling field dimensions before ordering or fabricating any material.

NOTE:
 This sheet applies to location ID: numbers 13, 32L/R, 33, 34 on ROUTE 580 and 155L/R, 156, 158, 159L/R, 137 and 160 on ROUTE 680. For more information see "LOCATION TABLE-ROUTE 580 No. 5" sheet and "LOCATION TABLE-ROUTE 680 No. 1" sheet and "ROADWAY PLANS".

| | | | | | | | |
|-----------------------------------|------------|--------------------------------|------------------------|--|--|------------|---|
| BRANCH CHIEF <u>DAVID NEUMANN</u> | DESIGN | BY VICTOR LOPEZ | CHECKED JOEL MAGANA | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES DESIGN AND TECHNICAL SERVICES SPECIAL DESIGNS BRANCH B | BRIDGE NO. | CONCRETE BARRIER TRANSITIONS CONCRETE BARRIER TYPE 25 (CASE 1) |
| | DETAILS | BY SHUMEI JIANG BOB EDWARDS | CHECKED JOEL MAGANA | | | VARIES | |
| | QUANTITIES | BY JOEL MAGANA | CHECKED MICHAEL CHARAK | | | VARIES | |

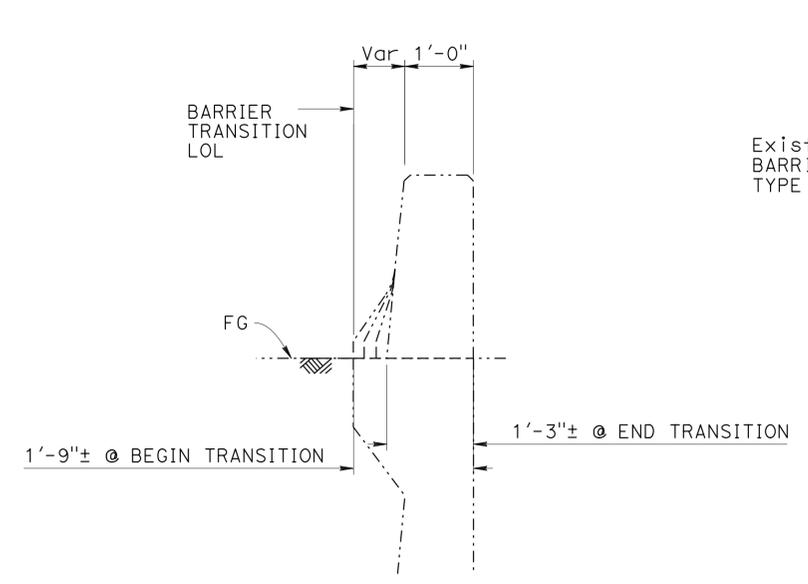
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 UNIT: 3619 PROJECT NUMBER & PHASE: 0414000064-1 CONTRACT NO.: 04-205211 DISREGARD PRINTS BEARING EARLIER REVISION DATES

| REVISION DATES | SHEET | OF |
|---------------------------------|-------|----|
| 7-08-14 2-19-15 2-19-15 1-24-15 | 14 | 33 |

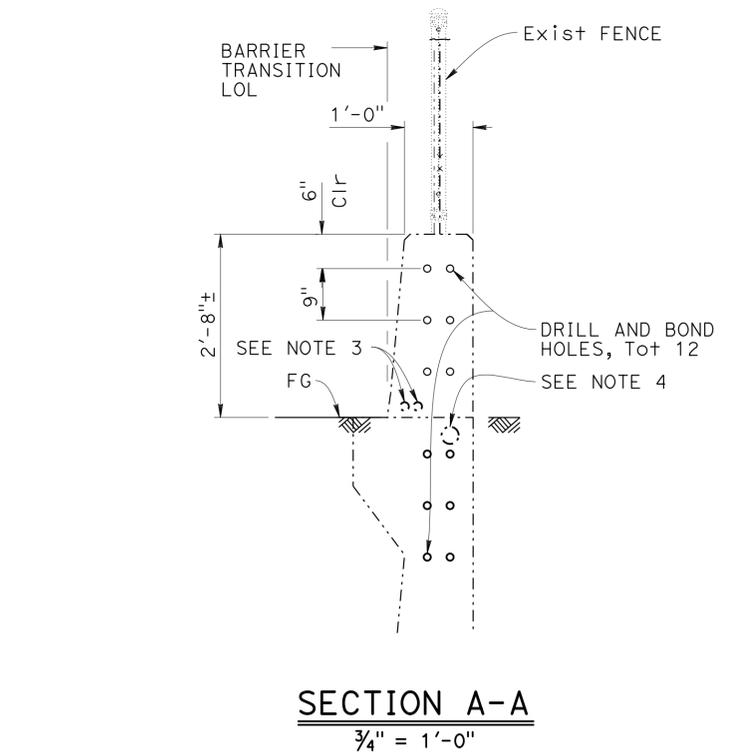
FILE => 04-295211_u-misc-dt14-sheet.dgn

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|---------|--------------------------|-----------|--------------|
| 04 | Ala | 580,680 | Var | 125 | 143 |

Victor O. Lopez 2-19-15
 REGISTERED CIVIL ENGINEER DATE
 3-30-15
 PLANS APPROVAL DATE
 No. C61373
 Exp. 6/30/15
 CIVIL
 STATE OF CALIFORNIA
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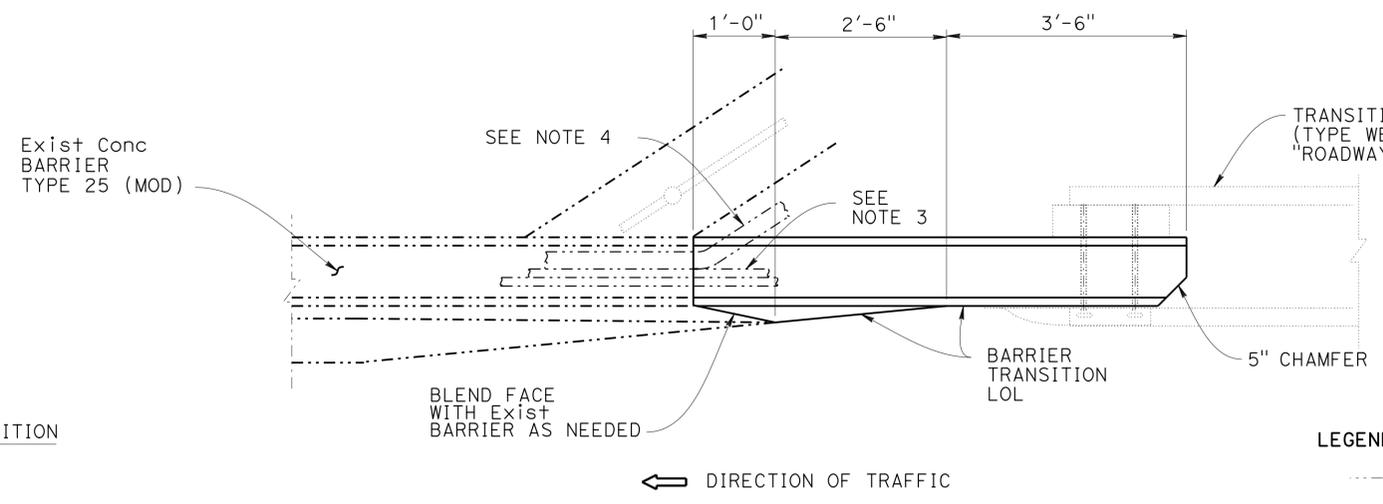


TYPICAL SECTION
EXISTING TYPE 25 TRANSITION
 NO SCALE



SECTION A-A
 $\frac{3}{4}'' = 1'-0''$

NOTE:
 The contractor must verify all controlling field dimensions before ordering or fabricating any material.



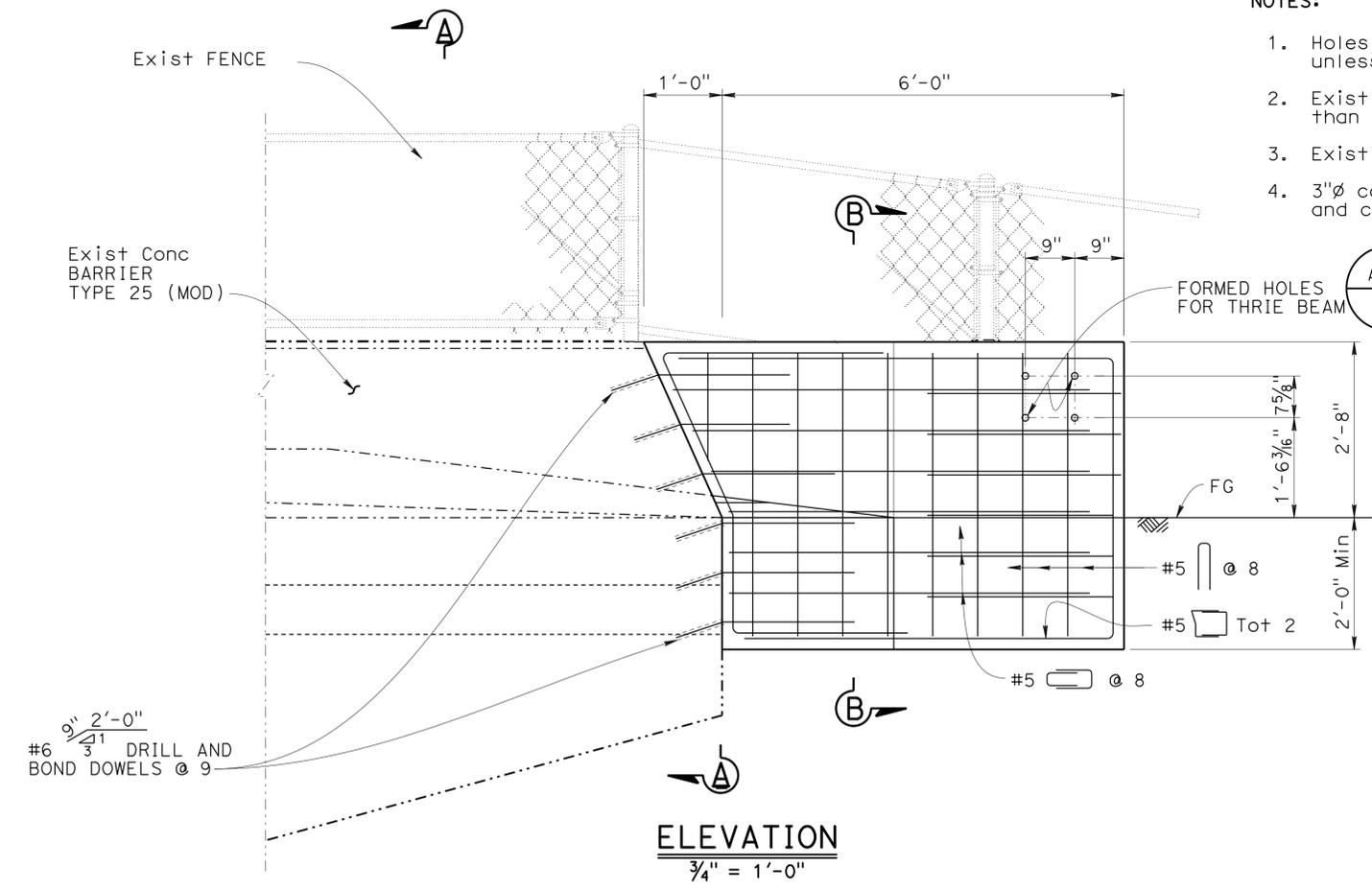
PLAN
 $\frac{3}{4}'' = 1'-0''$

LEGEND:

- Indicates existing structure
- Indicates new structure

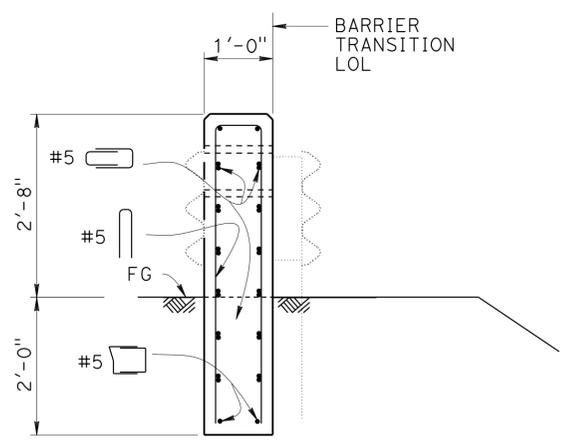
NOTES:

- Holes used for fastening existing MBGR shall be mortar filled, unless holes were cast using pipe sleeves.
- Existing barrier heights vary. Where exist barrier height is more than 2'-8", transition barrier height to 2'-8" @ 4:1 slope.
- Existing 1 1/2"Ø conduit with fiber optic cable to remain in place.
- 3"Ø conduit to be rerouted to allow placement of new reinforcement and concrete as shown. See "ELECTRICAL PLANS".



ELEVATION
 $\frac{3}{4}'' = 1'-0''$

SECTION B-B
 $\frac{3}{4}'' = 1'-0''$



NOTE:

This sheet applies to location ID: number 12. For more information see "LOCATION TABLE-ROUTE 580 No. 5" sheet and "ROADWAY PLANS".

BRANCH CHIEF DAVID NEUMANN

| | | |
|------------|--------------------------------|------------------------|
| DESIGN | BY VICTOR LOPEZ | CHECKED JOEL MAGANA |
| DETAILS | BY SHUMEI JIANG BOB EDWARDS | CHECKED JOEL MAGANA |
| QUANTITIES | BY JOEL MAGANA | CHECKED MICHAEL CHARAK |

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 DESIGN AND TECHNICAL SERVICES
 SPECIAL DESIGNS BRANCH **B**

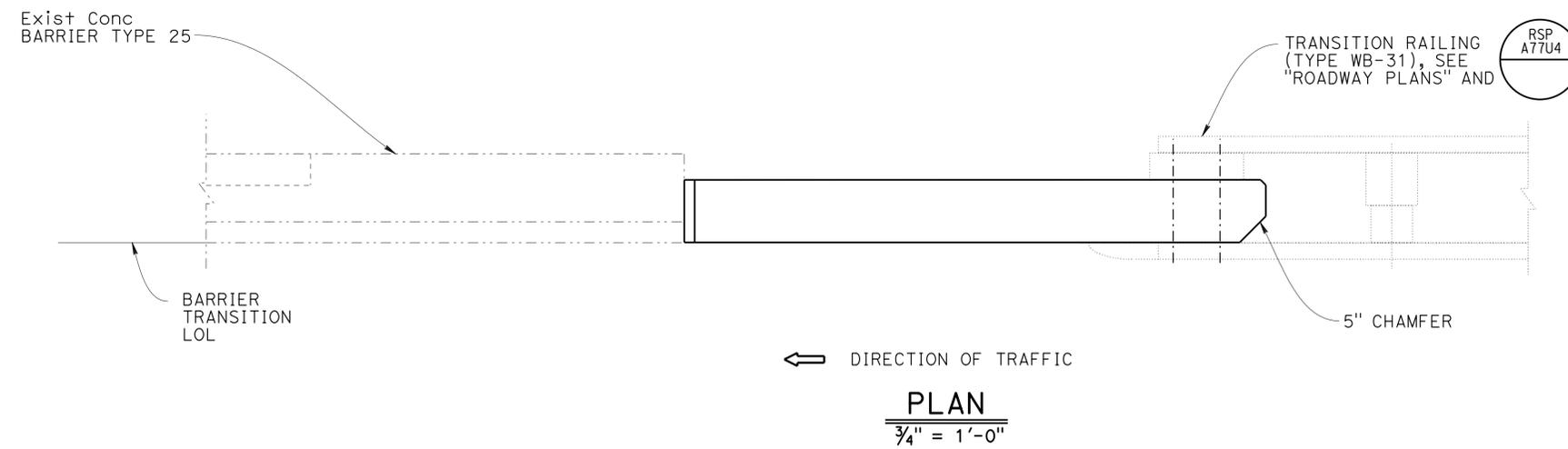
| | |
|------------|--------|
| BRIDGE NO. | VARIES |
| POST MILE | VARIES |

CONCRETE BARRIER TRANSITIONS
CONCRETE BARRIER TYPE 25 (MOD) (CASE 2)

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|---------|--------------------------|-----------|--------------|
| 04 | Ala | 580,680 | Var | 126 | 143 |

REGISTERED CIVIL ENGINEER *Victor Lopez* DATE 2-19-15
 PLANS APPROVAL DATE 3-30-15
 No. C61373
 Exp. 6/30/15
 CIVIL
 STATE OF CALIFORNIA

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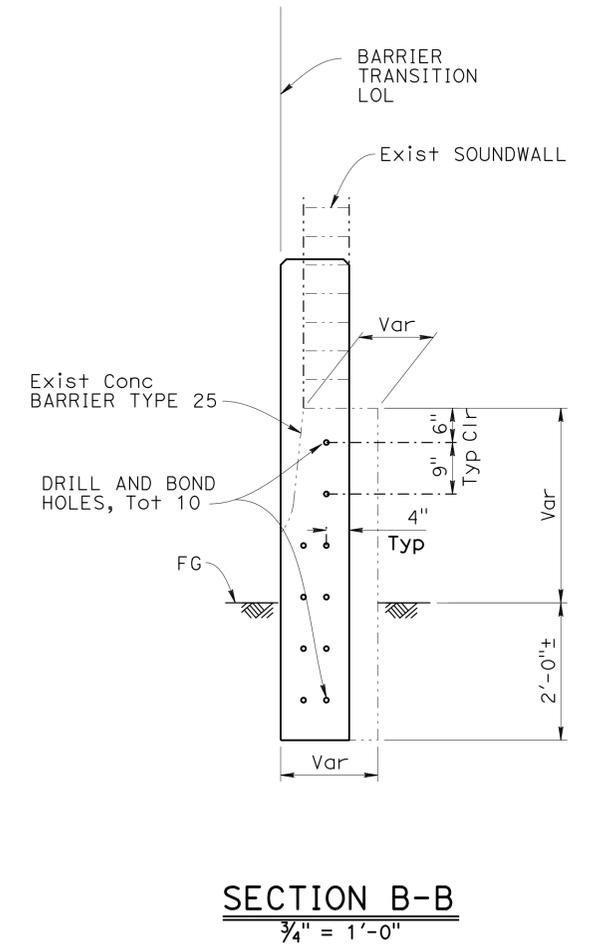
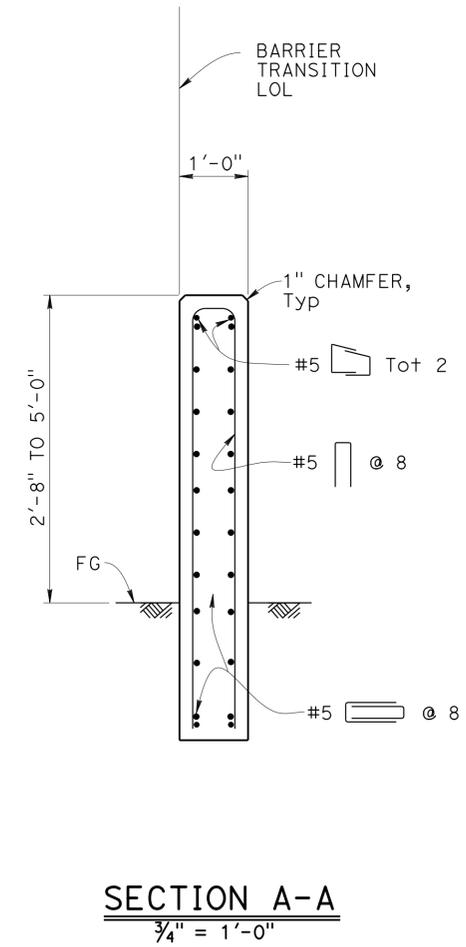
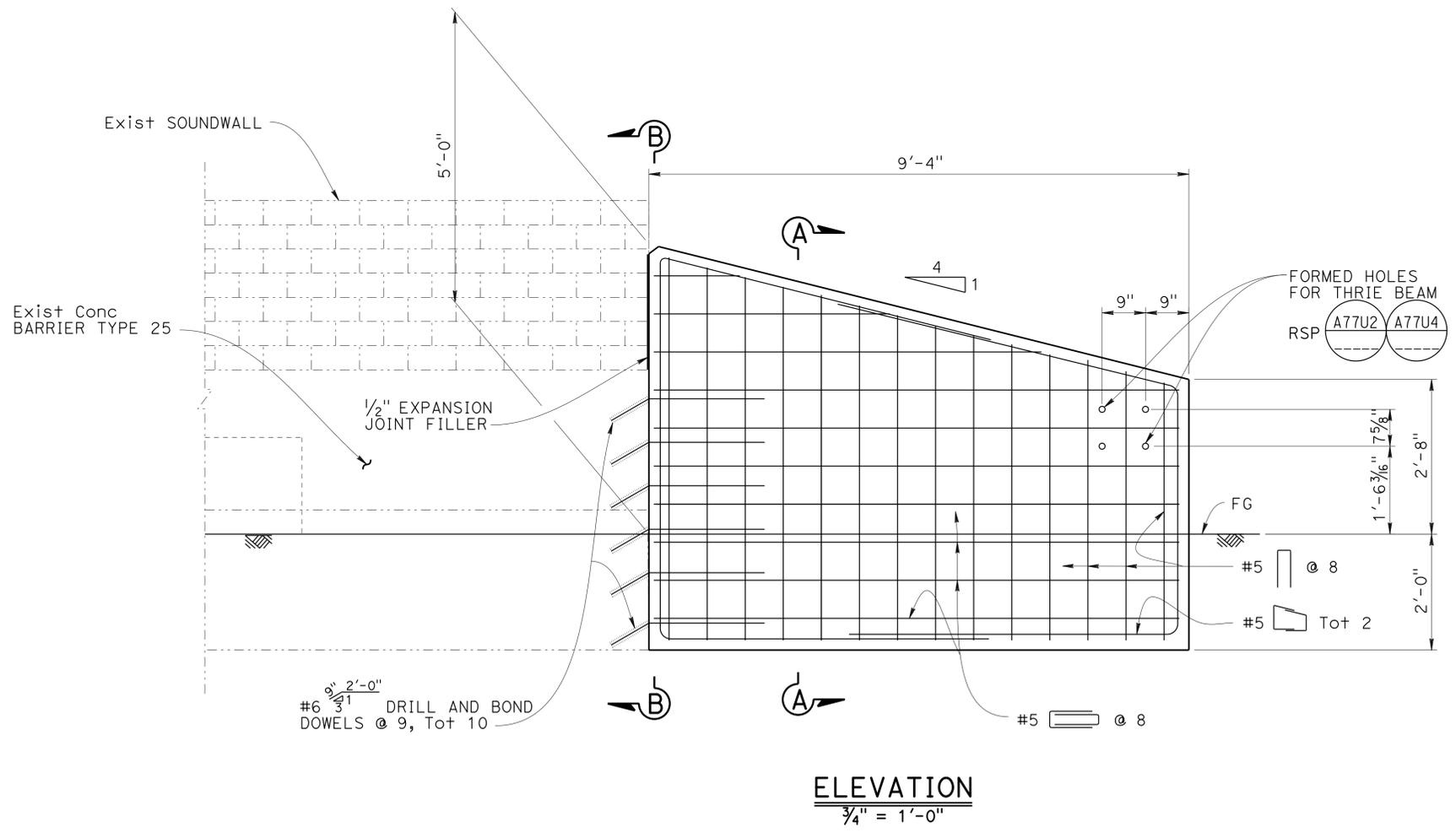


LEGEND:

----- Indicates existing structure

———— Indicates new structure

- NOTES:**
- Holes used for fastening existing MBGR shall be mortar filled, unless holes were cast using pipe sleeves.
 - Existing barrier heights vary. Where exist barrier height is more than 2'-8", transition barrier height to 2'-8" @ 4:1 slope.



NOTE:
The contractor must verify all controlling field dimensions before ordering or fabricating any material.

NOTE:
This sheet applies to location ID: number 68 on Route 580 and 136, 145 on Route 680. For more information, see "LOCATION TABLE-ROUTE 580 No. 5" sheet and "LOCATION TABLE-ROUTE 680 No. 1" sheet and "ROADWAY PLANS".

| | | | | | | | |
|-----------------------------------|------------|--------------------------------|------------------------|---|--|---------------------|---|
| BRANCH CHIEF <u>DAVID NEUMANN</u> | DESIGN | BY VICTOR LOPEZ | CHECKED JOEL MAGANA | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES DESIGN AND TECHNICAL SERVICES SPECIAL DESIGNS BRANCH B | BRIDGE NO. | CONCRETE BARRIER TRANSITIONS CONCRETE BARRIER TYPE 25 WITH SOUNDWALL |
| | DETAILS | BY SHUMEI JIANG BOB EDWARDS | CHECKED JOEL MAGANA | | | VARIABLES | |
| | QUANTITIES | BY JOEL MAGANA | CHECKED MICHAEL CHARAK | | | POST MILE VARIES | |

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

0 1 2 3

UNIT: 3619
PROJECT NUMBER & PHASE: 0414000064-1
CONTRACT NO.: 04-205211

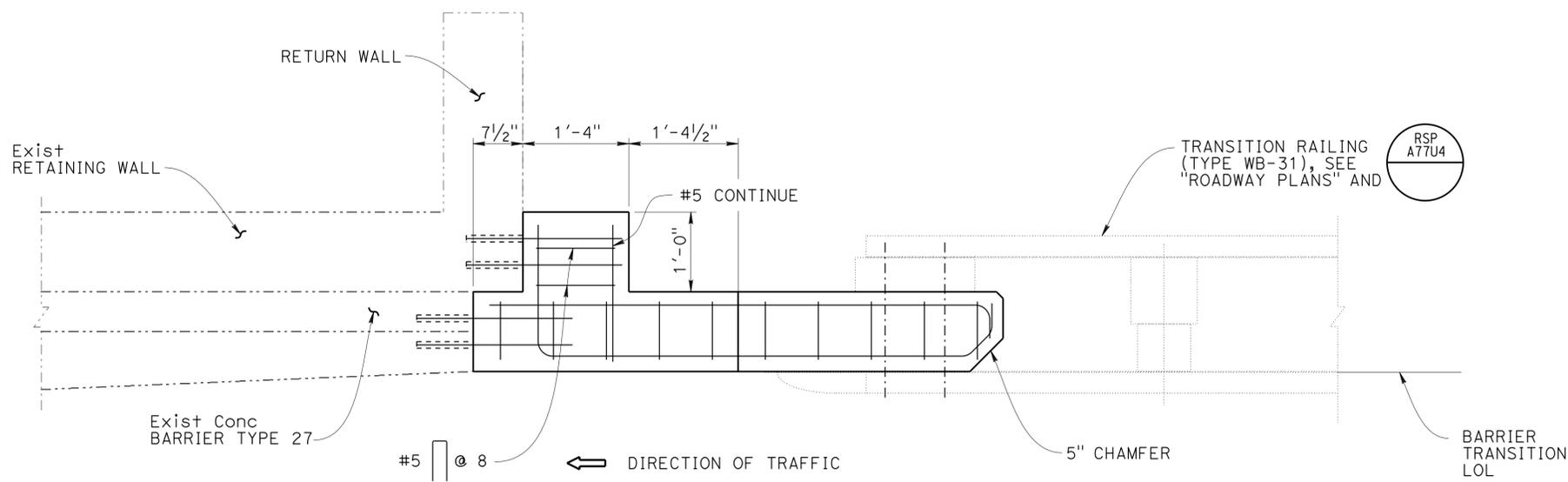
DISREGARD PRINTS BEARING EARLIER REVISION DATES

| REVISION DATES | SHEET | OF |
|-----------------------------------|-------|----|
| 7-08-14 2-12-15 10-22-14 10-23-14 | 16 | 33 |

FILE => 04-2g5211_u-misc-dt16-sheet.dgn

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|---------|--------------------------|-----------|--------------|
| 04 | Ala | 580,680 | Var | 127 | 143 |

Victor O. Lopez 2-19-15
 REGISTERED CIVIL ENGINEER DATE
 3-30-15
 PLANS APPROVAL DATE
 No. C61373
 Exp. 6/30/15
 CIVIL
 STATE OF CALIFORNIA
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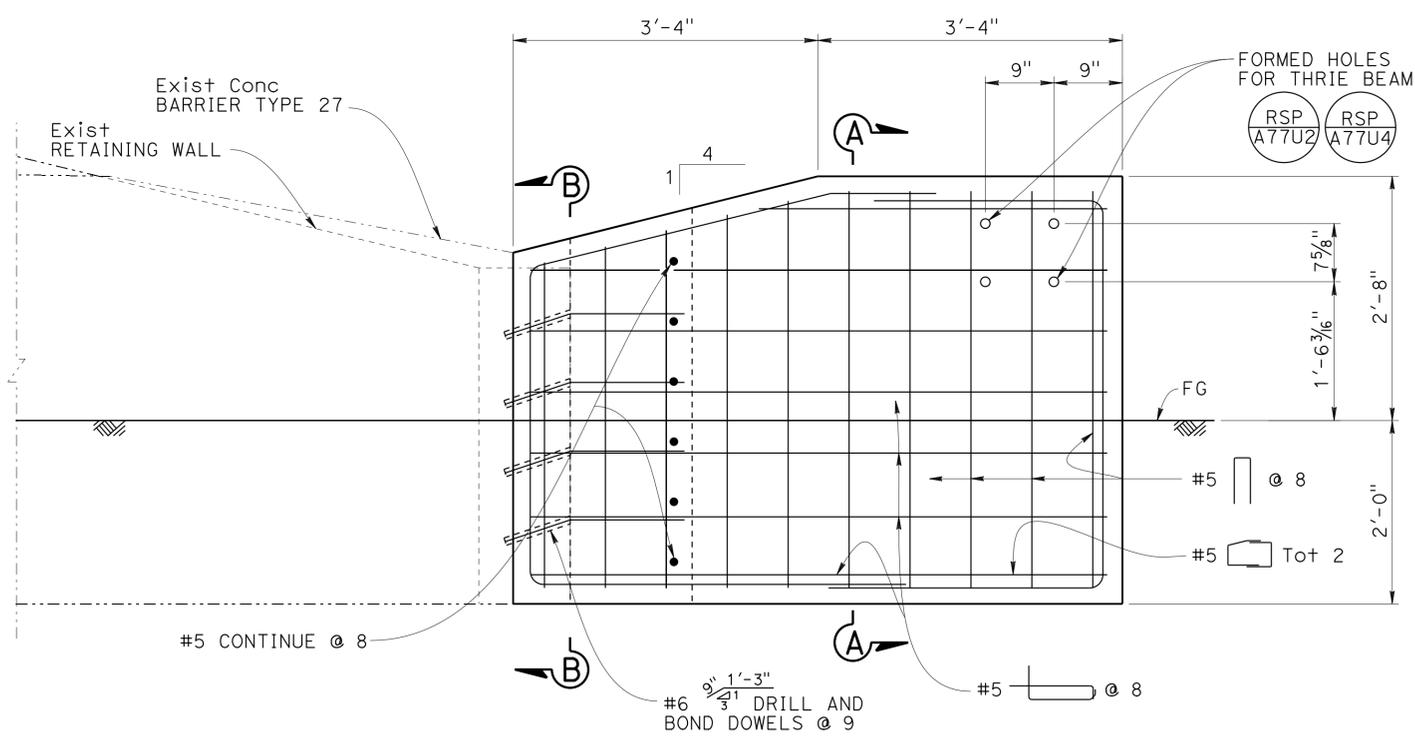
PLAN
1" = 1'-0"

LEGEND:

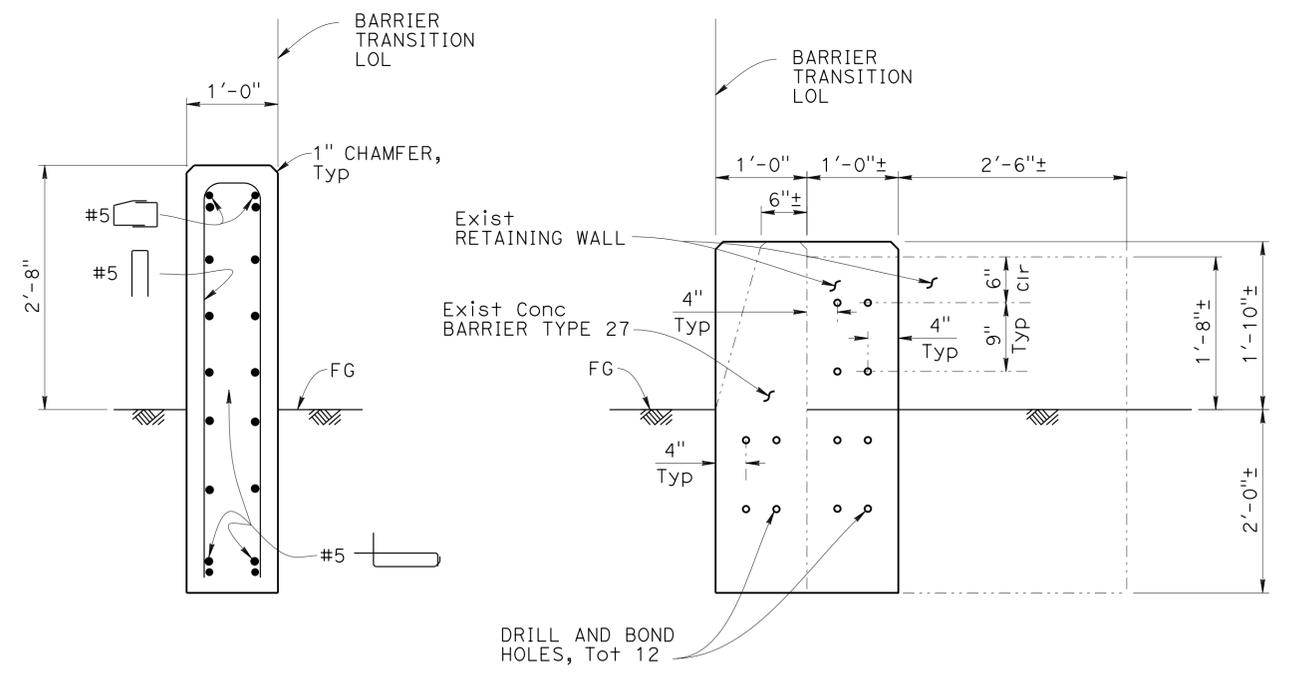
- Indicates existing structure
- Indicates new structure

NOTES:

- Holes used for fastening existing MBGR shall be mortar filled, unless holes were cast using pipe sleeves.
- Existing barrier heights vary. Where exist barrier height is more than 2'-8", transition barrier height to 2'-8" @ 4:1 slope.



ELEVATION
1" = 1'-0"



SECTION A-A
1" = 1'-0"

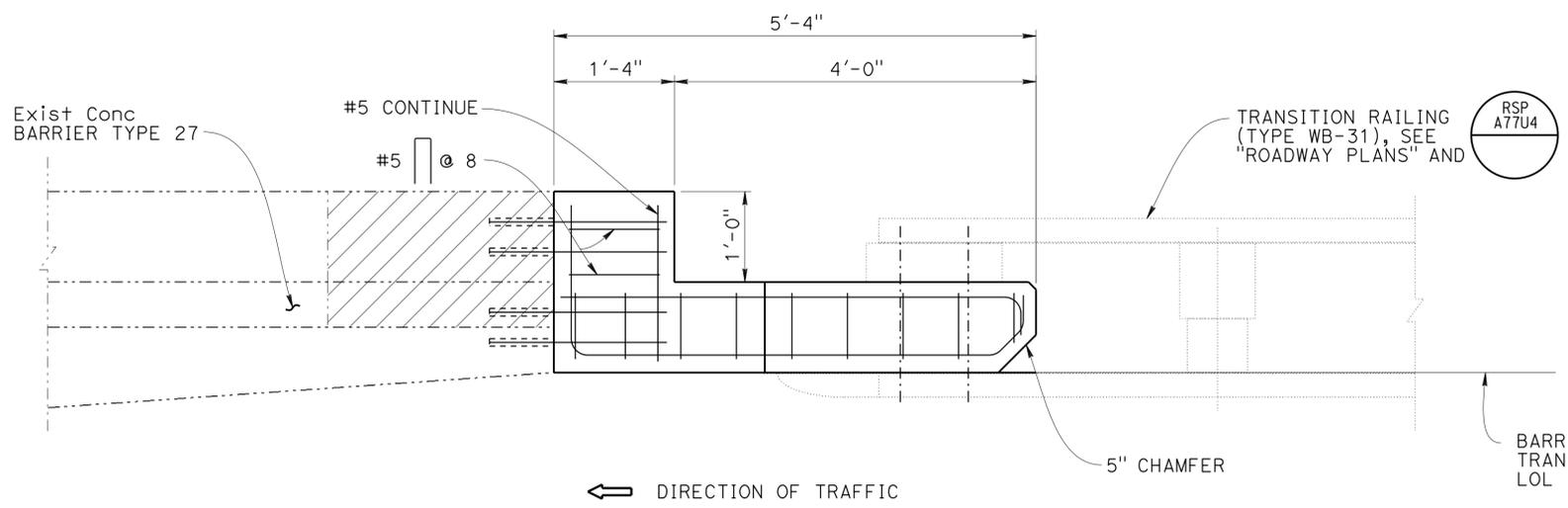
SECTION B-B
1" = 1'-0"

NOTE:
The contractor must verify all controlling field dimensions before ordering or fabricating any material.

NOTE:
This sheet applies to location ID: number 58. For more information see "LOCATION TABLE-ROUTE 580 No. 5" sheet and "ROADWAY PLANS".

| | | | | | | | | | | | | |
|--|------------|--------------------------------|------------------------|---|--|--------------------------------------|--------------------------------------|--|---|----------------|----------|-------|
| BRANCH CHIEF DAVID NEUMANN | DESIGN | BY VICTOR LOPEZ | CHECKED JOEL MAGANA | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES DESIGN AND TECHNICAL SERVICES SPECIAL DESIGNS BRANCH B | BRIDGE NO. | N/A | CONCRETE BARRIER TRANSITIONS CONCRETE BARRIER TYPE 27 AND RETAINING WALL (CASE 1) | | | | |
| | DETAILS | BY SHUMEI JIANG BOB EDWARDS | CHECKED JOEL MAGANA | | | POST MILE | 39.95 | | | | | |
| | QUANTITIES | BY JOEL MAGANA | CHECKED MICHAEL CHARAK | | | PROJECT NUMBER & PHASE: 0414000064-1 | CONTRACT NO.: 04-205211 | | | | | |
| STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10) | | | | ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | 0 1 2 3 | UNIT: 3619 | PROJECT NUMBER & PHASE: 0414000064-1 | CONTRACT NO.: 04-205211 | DISREGARD PRINTS BEARING EARLIER REVISION DATES | REVISION DATES | SHEET 17 | OF 33 |

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|--|--------|---------|--------------------------|-----------|--------------|
| 04 | Ala | 580,680 | Var | 128 | 143 |
| | | | | 2-19-15 | |
| REGISTERED CIVIL ENGINEER | | | | DATE | |
| | | | | 3-30-15 | |
| PLANS APPROVAL DATE | | | | | |
| | | | | | |
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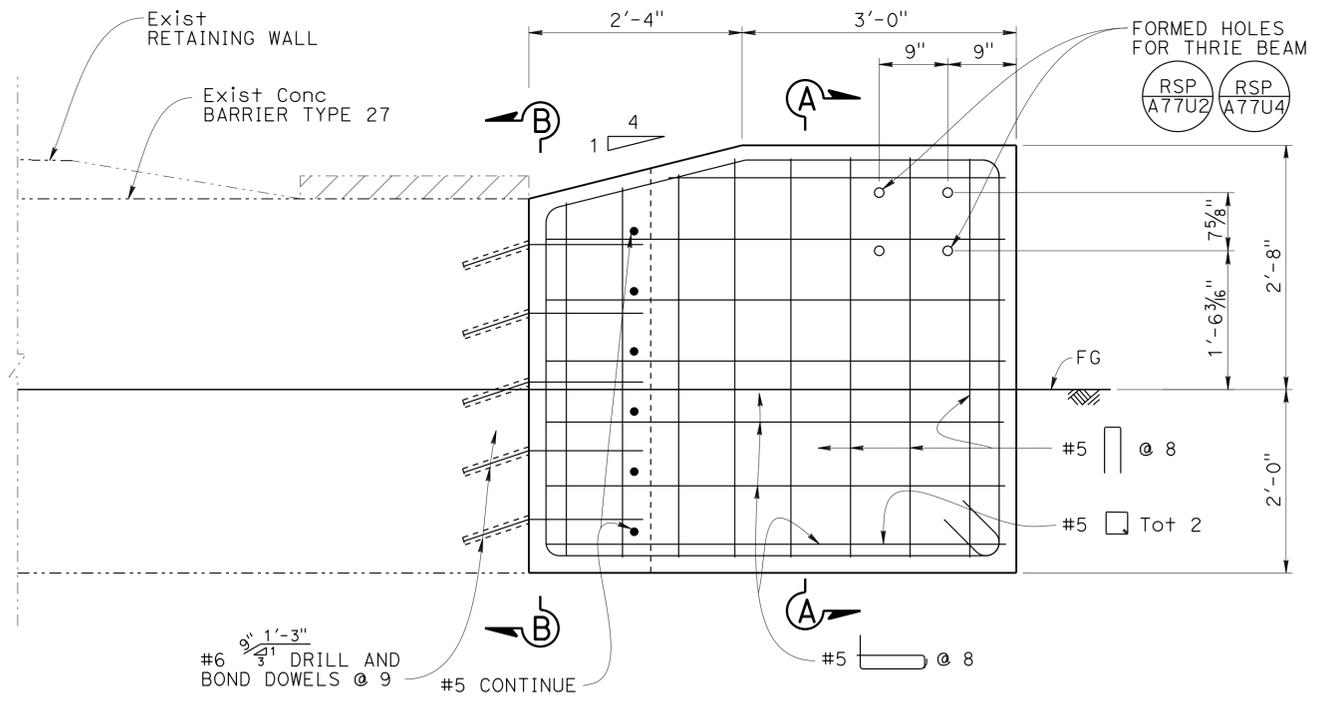
LEGEND:

- Indicates existing structure
- Indicates new structure
- ////// Indicates concrete barrier removal (Portion)

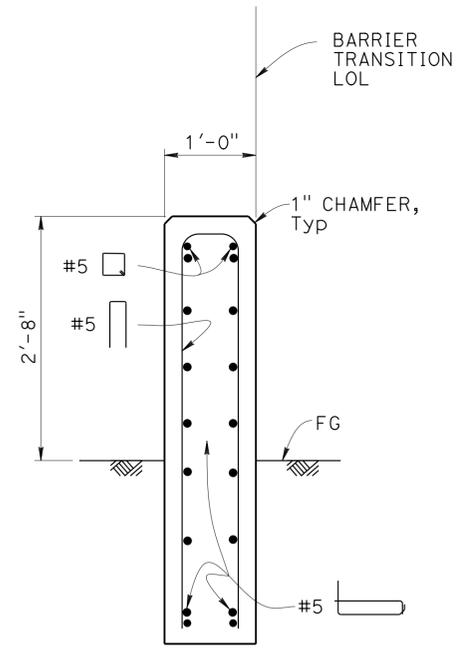
NOTES:

1. Holes used for fastening existing MBGR shall be mortar filled, unless holes were cast using pipe sleeves.
2. Existing barrier heights vary. Where exist barrier height is more than 2'-8", transition barrier height to 2'-8" @ 4:1 slope.

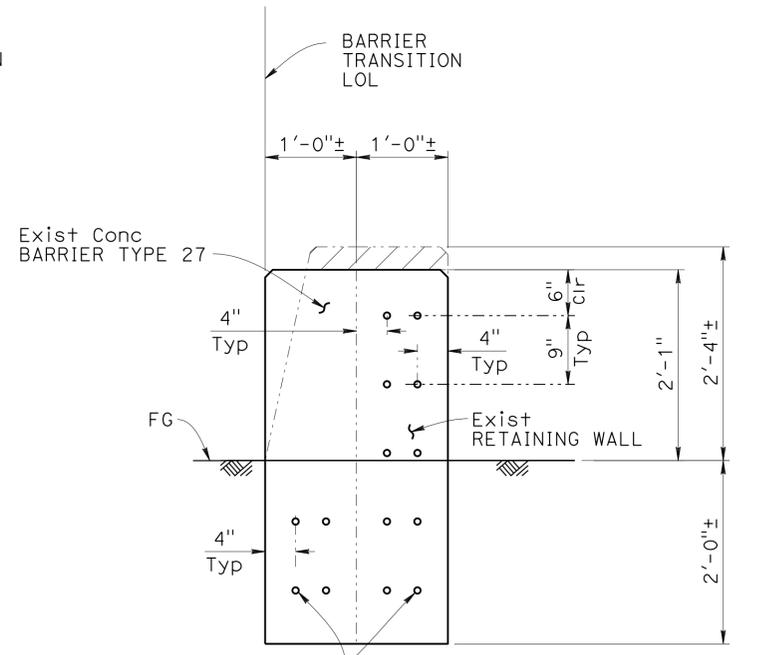
PLAN
1" = 1'-0"



ELEVATION
1" = 1'-0"



SECTION A-A
1" = 1'-0"



SECTION B-B
1" = 1'-0"

NOTE:
The contractor must verify all controlling field dimensions before ordering or fabricating any material.

NOTE:
This sheet applies to location ID: number 71. For more information see "LOCATION TABLE-ROUTE 580 No. 5" sheet and "ROADWAY PLANS".

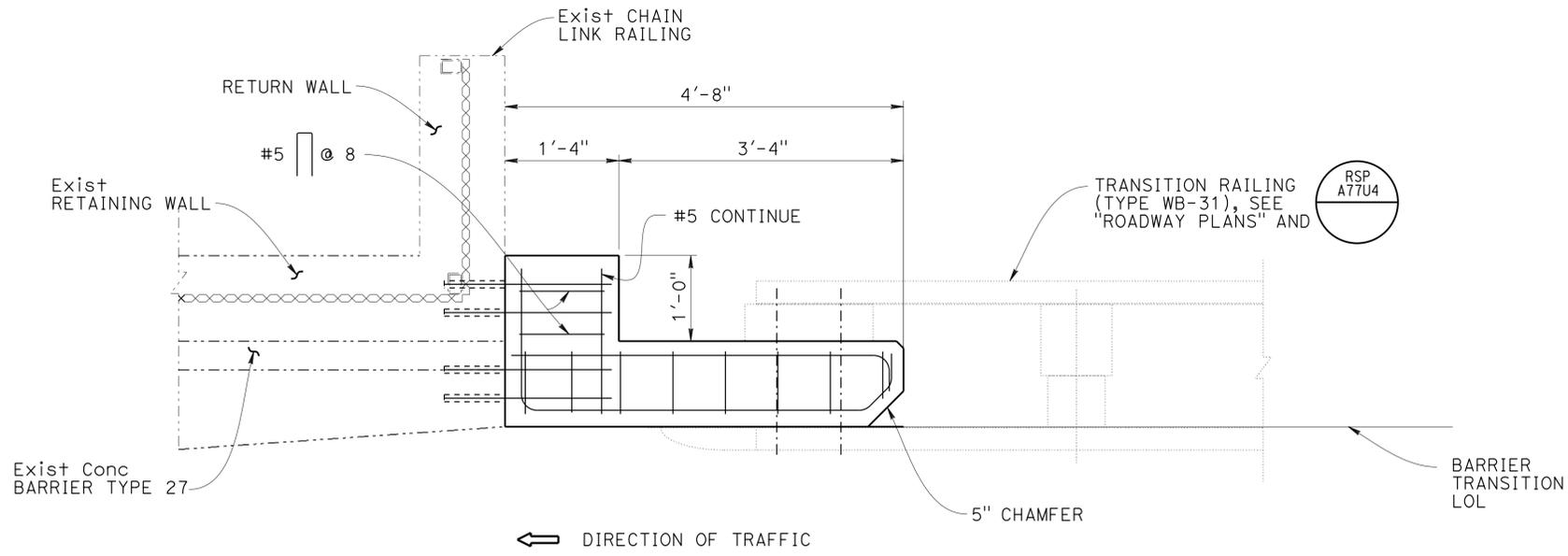
| | | | | | | | | |
|---------------|------------|--------------------------------|------------------------|---|--|---|----------------|--|
| BRANCH CHIEF | DESIGN | BY VICTOR LOPEZ | CHECKED JOEL MAGANA | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES DESIGN AND TECHNICAL SERVICES SPECIAL DESIGNS BRANCH B | BRIDGE NO. | N/A | CONCRETE BARRIER TRANSITIONS CONCRETE BARRIER TYPE 27 AND RETAINING WALL (CASE 2) |
| | DETAILS | BY SHUMEI JIANG BOB EDWARDS | CHECKED JOEL MAGANA | | | POST MILE | 44.08 | |
| DAVID NEUMANN | QUANTITIES | BY JOEL MAGANA | CHECKED MICHAEL CHARAK | PROJECT NUMBER & PHASE: 0414000064-1 | CONTRACT NO.: 04-205211 | DISREGARD PRINTS BEARING EARLIER REVISION DATES | REVISION DATES | SHEET 18 OF 33 |

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|---------|--------------------------|-----------|--------------|
| 04 | Ala | 580,680 | Var | 129 | 143 |

REGISTERED CIVIL ENGINEER DATE 2-19-15
 REGISTERED CIVIL ENGINEER DATE 3-30-15
 PLANS APPROVAL DATE

No. C61373
 Exp. 6/30/15
 CIVIL
 STATE OF CALIFORNIA

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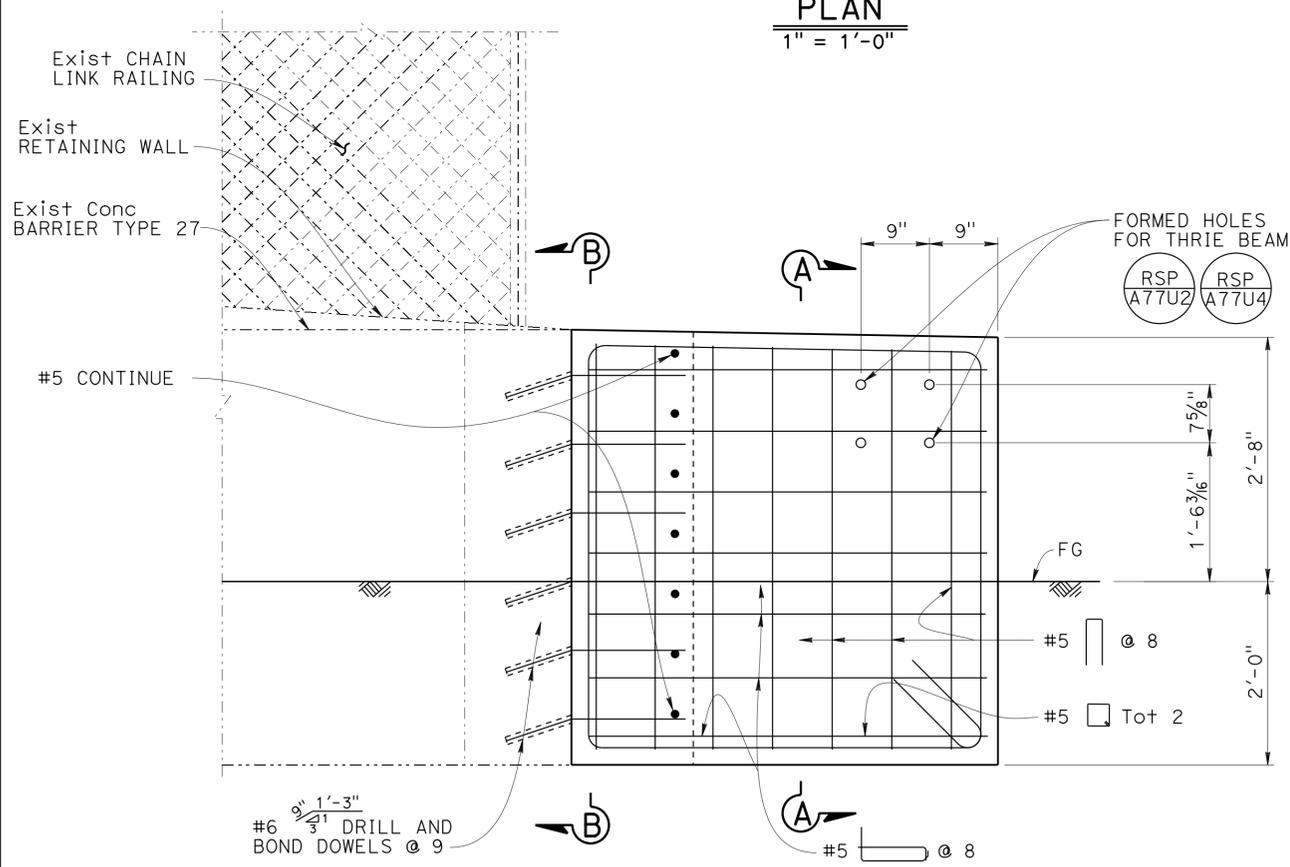
LEGEND:

--- Indicates existing structure

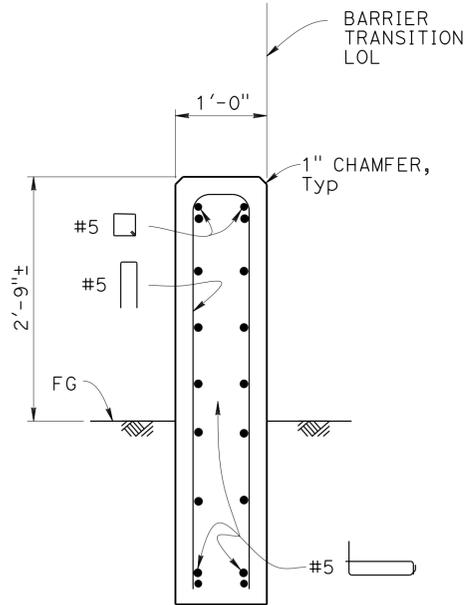
— Indicates new structure

- NOTES:**
- Holes used for fastening existing MBGR shall be mortar filled, unless holes were cast using pipe sleeves.
 - Existing barrier heights vary. Where exist barrier height is more than 2'-8", transition barrier height to 2'-8" @ 4:1 slope.

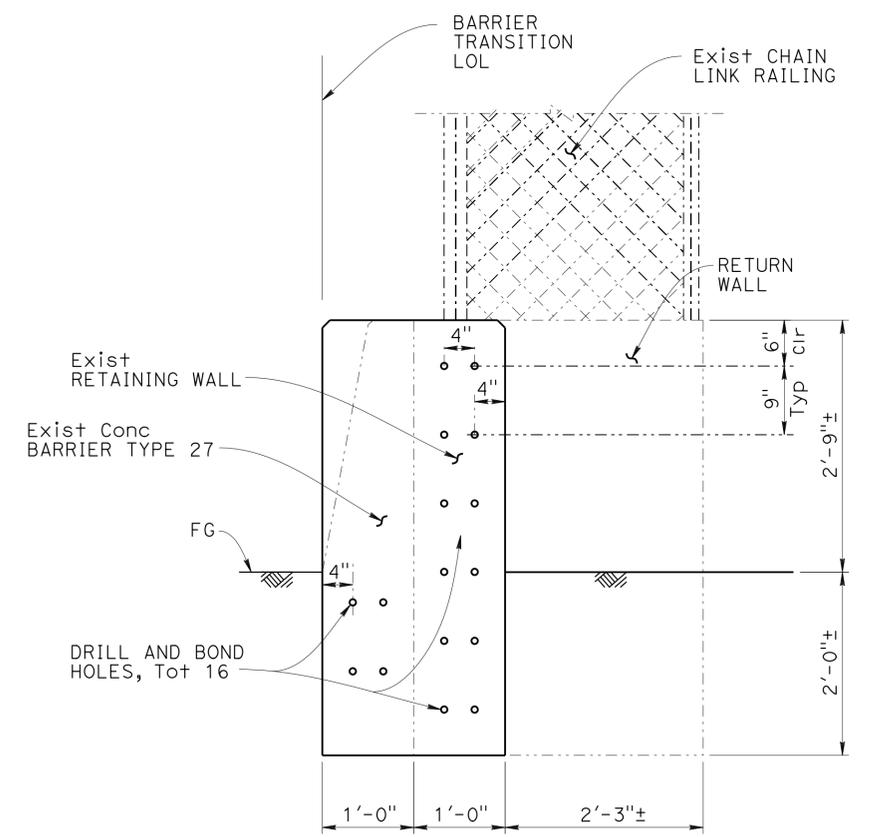
PLAN
1" = 1'-0"



ELEVATION
1" = 1'-0"



SECTION A-A
1" = 1'-0"



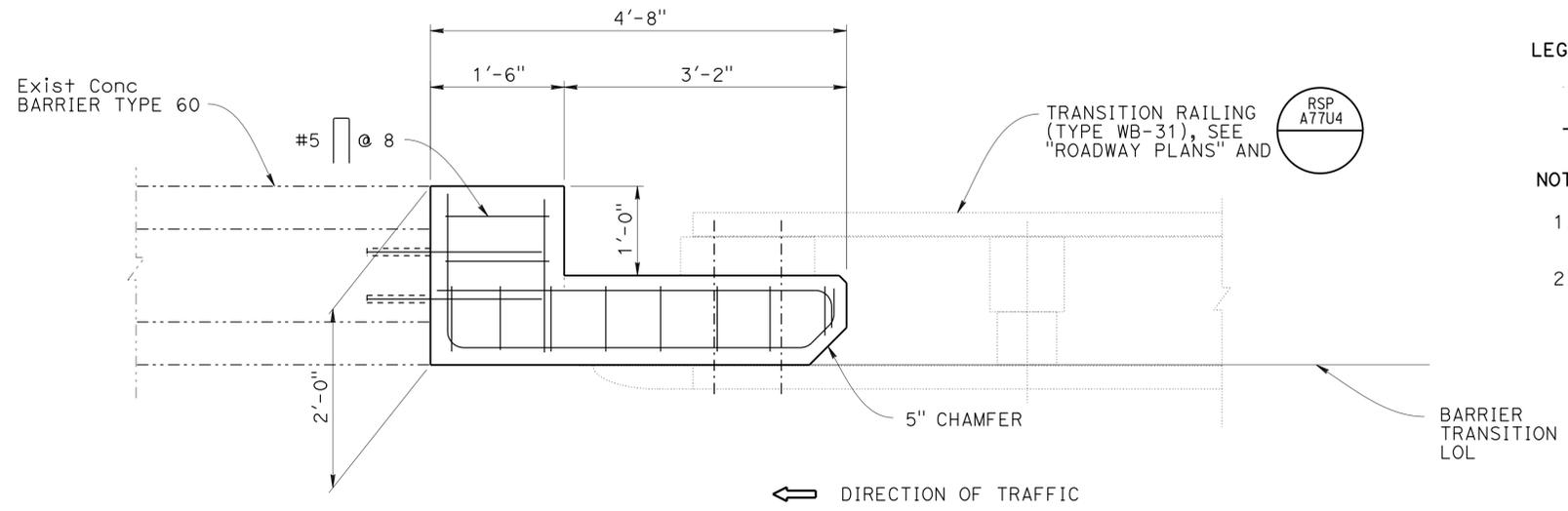
SECTION B-B
1" = 1'-0"

NOTE:
The contractor must verify all controlling field dimensions before ordering or fabricating any material.

NOTE:
This sheet applies to location ID: numbers 134R and 135. For more information see "LOCATION TABLE-ROUTE 680 No. 2" sheet and "ROADWAY PLANS".

| | | | | | | | | |
|-------------------------------|------------|--------------------------------|------------------------|---|---|------------|-------|--|
| BRANCH CHIEF DAVID NEUMANN | DESIGN | BY VICTOR LOPEZ | CHECKED JOEL MAGANA | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES DESIGN AND TECHNICAL SERVICES B SPECIAL DESIGNS BRANCH | BRIDGE NO. | N/A | CONCRETE BARRIER TRANSITIONS CONCRETE BARRIER TYPE 27 AND RETAINING WALL (CASE 3) |
| | DETAILS | BY SHUMEI JIANG BOB EDWARDS | CHECKED JOEL MAGANA | | | POST MILE | 21.73 | |
| | QUANTITIES | BY JOEL MAGANA | CHECKED MICHAEL CHARAK | | | | | |

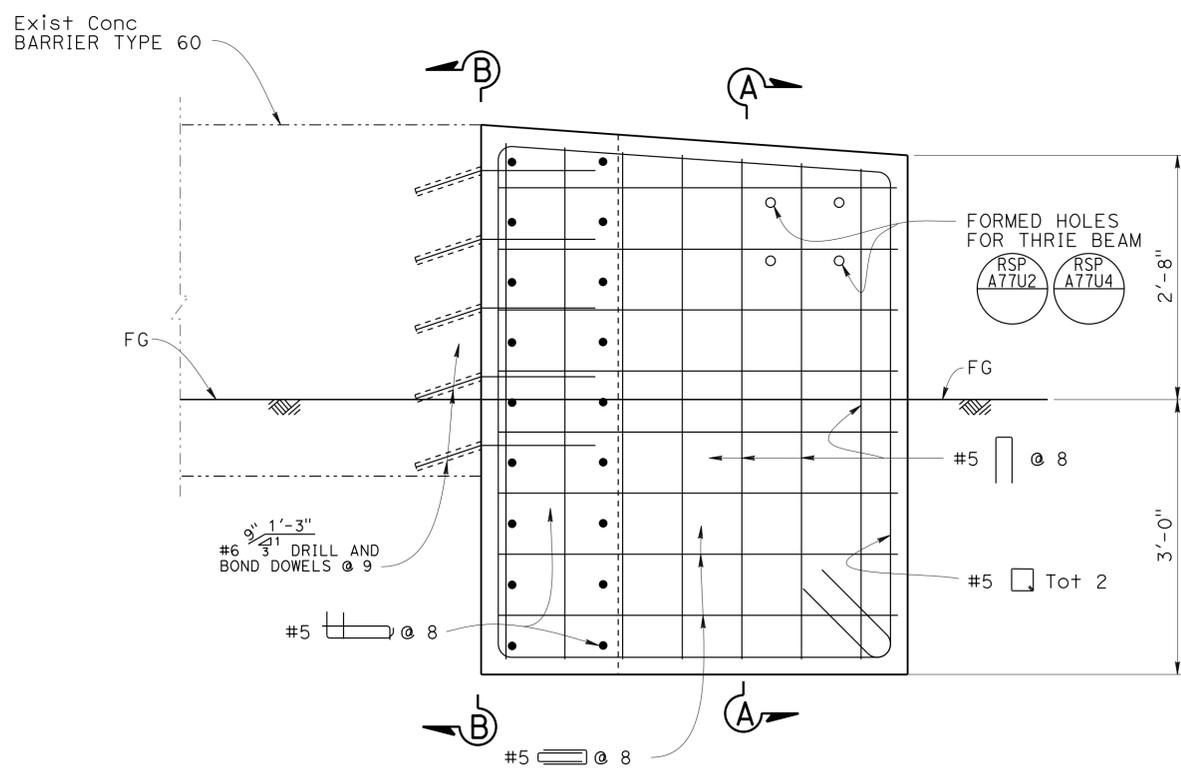
| | | | | | |
|--|--------|---------|--------------------------|---------------------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 04 | Ala | 580,680 | Var | 130 | 143 |
| <i>Victor Lopez</i> 2-19-15 REGISTERED CIVIL ENGINEER DATE | | | | | |
| 3-30-15 | | | | PLANS APPROVAL DATE | |
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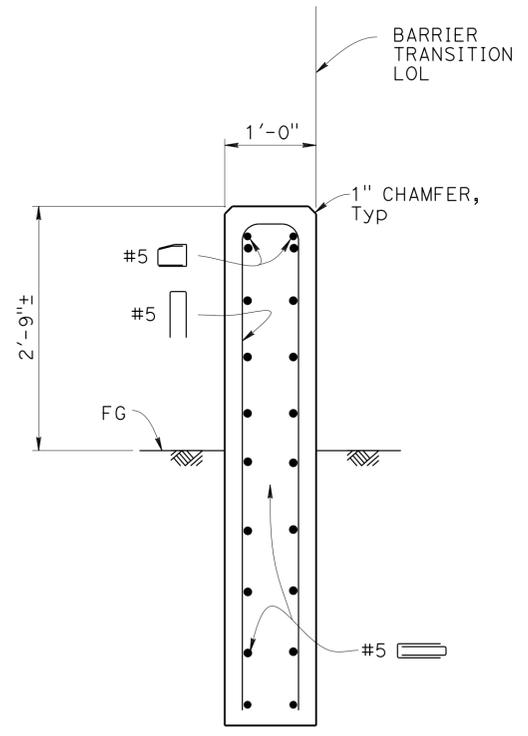
PLAN
1" = 1'-0"

LEGEND:
 - - - - - Indicates existing structure
 ——— Indicates new structure

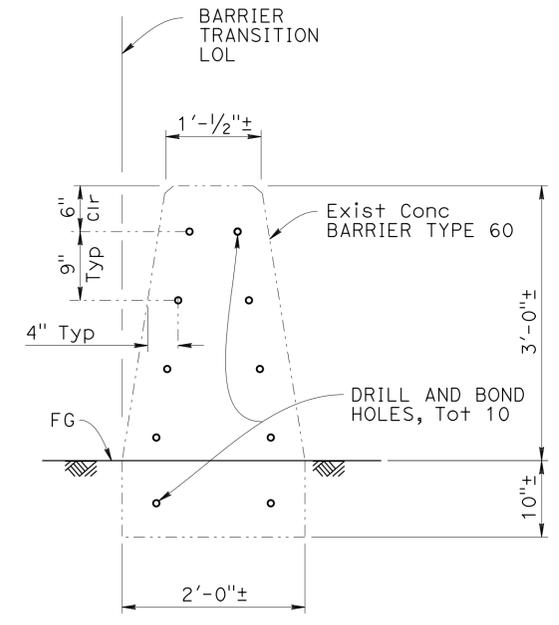
- NOTES:**
- Holes used for fastening existing MBGR shall be mortar filled, unless holes were cast using pipe sleeves.
 - Existing barrier heights vary. Where exist barrier height is more than 2'-8", transition barrier height to 2'-8" @ 4:1 slope.



ELEVATION
1" = 1'-0"



SECTION A-A
1" = 1'-0"



SECTION B-B
1" = 1'-0"

NOTE:
 The contractor must verify all controlling field dimensions before ordering or fabricating any material.

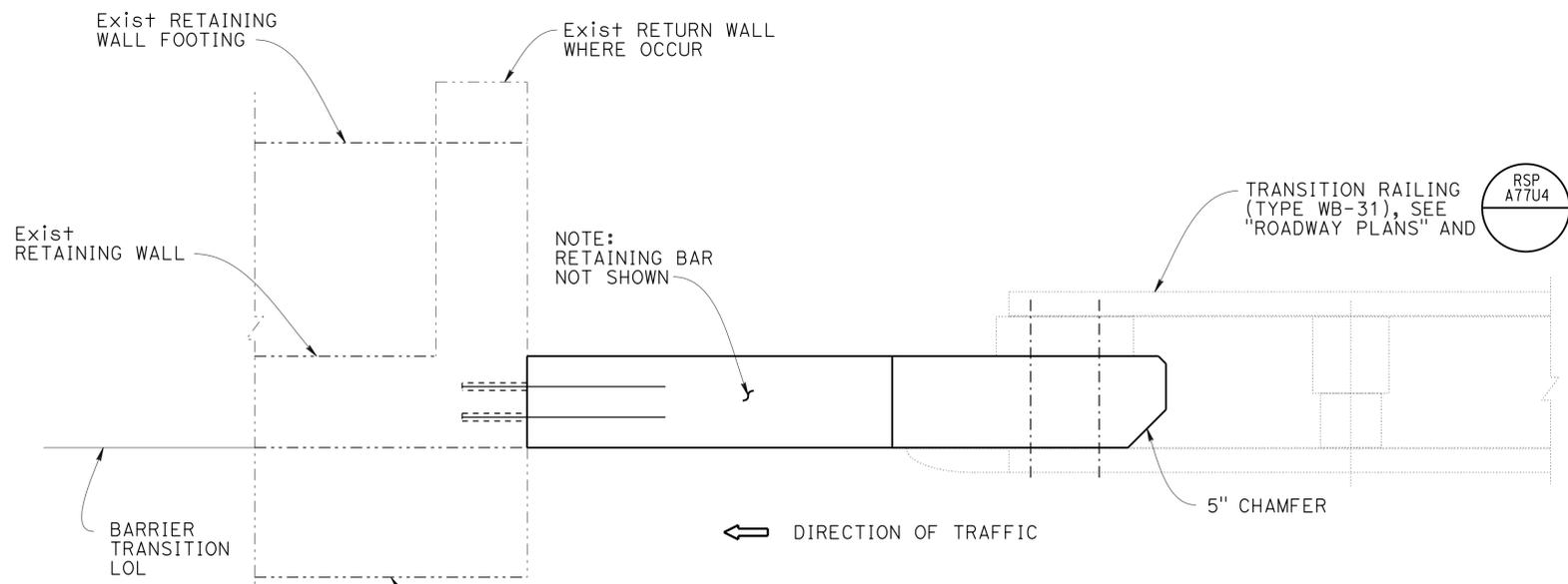
NOTE:
 This sheet applies to location ID: number134L. For more information see "LOCATION TABLE-ROUTE 680 No. 2" sheet and "ROADWAY PLANS".

| | | | | | | | | | | | | |
|--|------------|--------------------------------|------------------------|--|--|------------|--------------------------------------|--|---|---|----------|-------|
| BRANCH CHIEF <u>DAVID NEUMANN</u> | DESIGN | BY VICTOR LOPEZ | CHECKED JOEL MAGANA | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES DESIGN AND TECHNICAL SERVICES SPECIAL DESIGNS BRANCH B | BRIDGE NO. | N/A | CONCRETE BARRIER TRANSITIONS CONCRETE BARRIER TYPE 60 | | | | |
| | DETAILS | BY SHUMEI JIANG BOB EDWARDS | CHECKED JOEL MAGANA | | | POST MILE | 21.73 | | | | | |
| | QUANTITIES | BY JOEL MAGANA | CHECKED MICHAEL CHARAK | | | | | | | | | |
| STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10) | | | | ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | 0 1 2 3 | UNIT: 3619 | PROJECT NUMBER & PHASE: 0414000064-1 | CONTRACT NO.: 04-205211 | DISREGARD PRINTS BEARING EARLIER REVISION DATES | REVISION DATES 7-08-14 2-12-15 3-26-14 1-14-15 | SHEET 20 | OF 33 |

| | | | | | |
|------|--------|---------|--------------------------|-----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 04 | Ala | 580,680 | Var | 131 | 143 |

REGISTERED CIVIL ENGINEER DATE 2-19-15
 PLANS APPROVAL DATE 3-30-15
 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
 VICTOR O. LOPEZ
 No. C61373
 Exp. 6/30/15
 CIVIL
 STATE OF CALIFORNIA

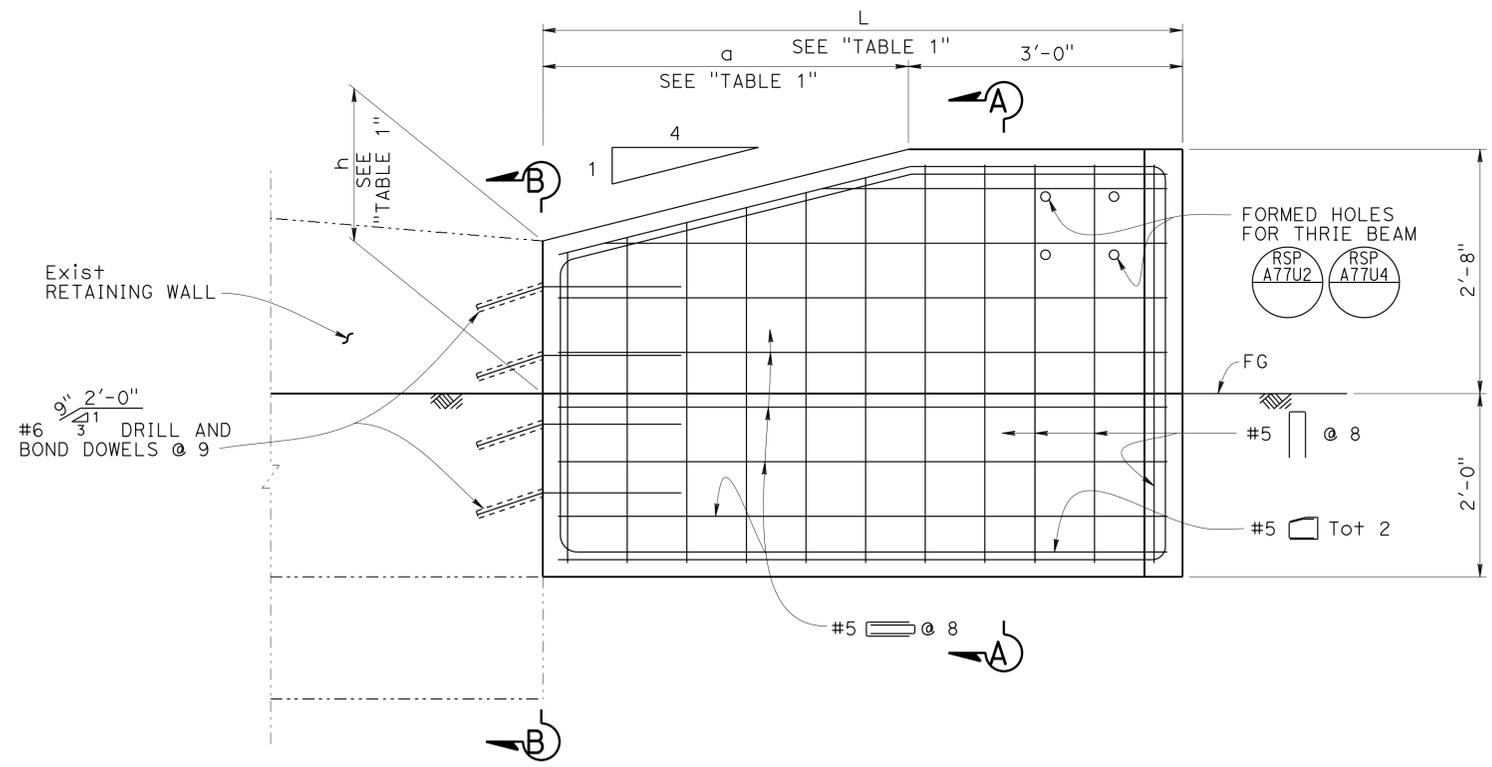


PLAN
1" = 1'-0"

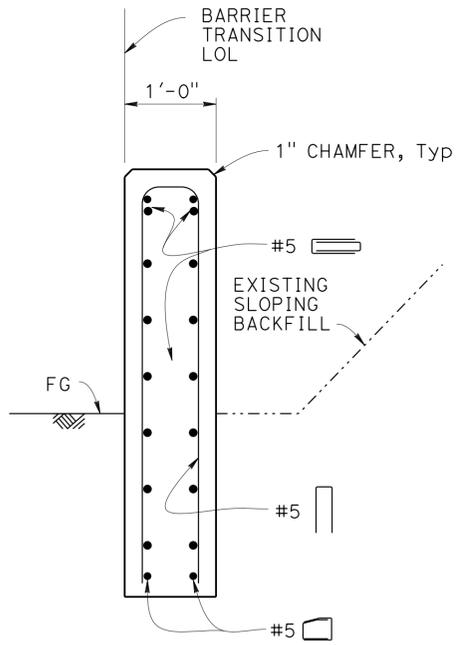
LEGEND:
 - - - - - Indicates existing structure
 ———— Indicates new structure

- NOTES:**
- Holes used for fastening existing MBGR shall be mortar filled, unless holes were cast using pipe sleeves.
 - Existing barrier heights vary. Where exist barrier height is more than 2'-8", transition barrier height to 2'-8" @ 4:1 slope.

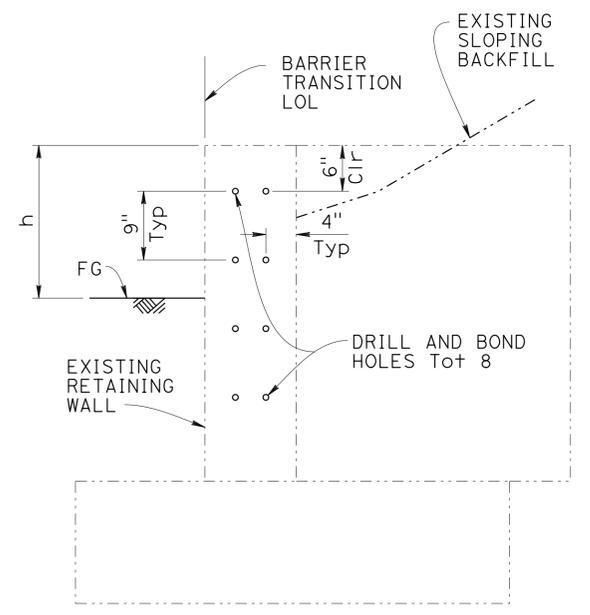
| LOCATION ID No. | ROUTE | POST MILE | "h" | "a" | TRANSITION LENGTH, "L" $a + 3'-0" = L$ |
|-----------------|--------|-----------|--------|-------|---|
| 40 | 580 WB | 32.72 | 1'-8" | 4'-0" | 7'-0" |
| 54 | 580 WB | 39.45 | 2'-2" | 2'-0" | 5'-0" |
| 57 | 580 WB | 39.93 | 2'-2" | 2'-0" | 5'-0" |
| 61 | 580 WB | 41.33 | 1'-10" | 3'-4" | 6'-4" |
| 62 | 580 EB | 41.67 | 2'-1" | 2'-4" | 5'-4" |



ELEVATION
1" = 1'-0"



SECTION A-A
1" = 1'-0"



SECTION B-B
NO SCALE

NOTE:
The contractor must verify all controlling field dimensions before ordering or fabricating any material.

NOTE:
This sheet applies to location ID: numbers 40, 54, 57, 61W and 62. For more information see "LOCATION TABLE-ROUTE 580 No. 4" sheet and "ROADWAY PLANS".

| | | | | | | | |
|-----------------------------------|------------|--------------------------------|------------------------|--|--|---------------------|--|
| BRANCH CHIEF <u>DAVID NEUMANN</u> | DESIGN | BY VICTOR LOPEZ | CHECKED JOEL MAGANA | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES DESIGN AND TECHNICAL SERVICES SPECIAL DESIGNS BRANCH B | BRIDGE NO. | CONCRETE BARRIER TRANSITIONS REINFORCED CONCRETE RETAINING WALL |
| | DETAILS | BY SHUMEI JIANG BOB EDWARDS | CHECKED JOEL MAGANA | | | VARIABLES | |
| | QUANTITIES | BY JOEL MAGANA | CHECKED MICHAEL CHARAK | | | POST MILE VARIES | |

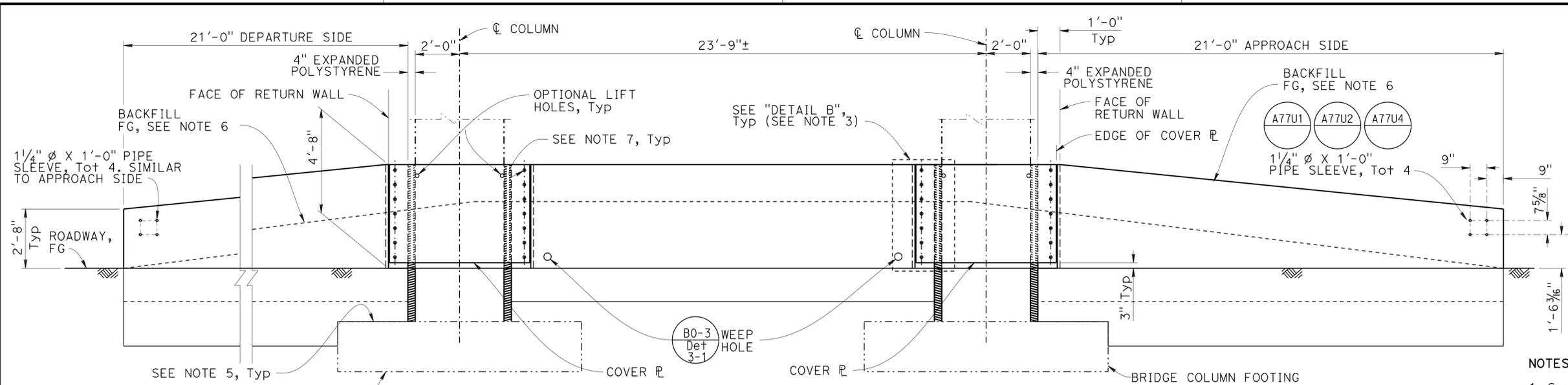
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 UNIT: 3619 PROJECT NUMBER & PHASE: 0414000064-1 CONTRACT NO.: 04-205211 DISREGARD PRINTS BEARING EARLIER REVISION DATES

| | | |
|----------------------------------|-------|----|
| REVISION DATES | SHEET | OF |
| 7-08-14 2-12-15 3-26-14 10-23-14 | 21 | 33 |

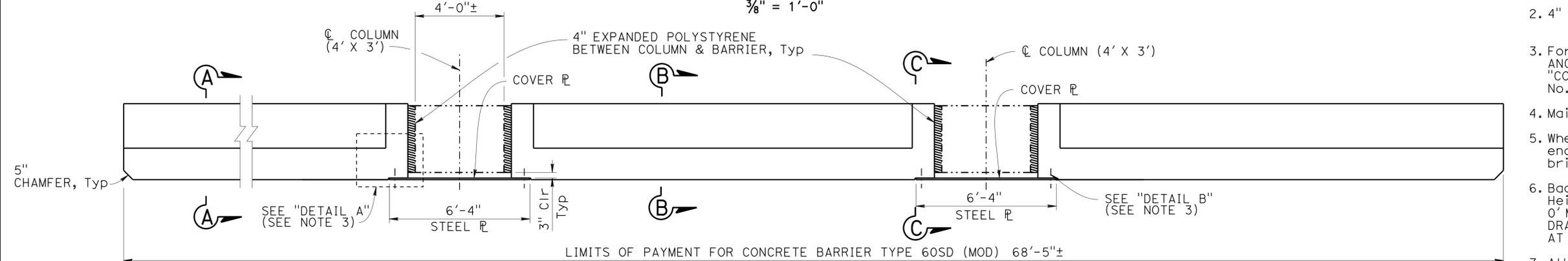
USERNAME => s141070 DATE PLOTTED => 16-APR-2015 TIME PLOTTED => 1:31:17 FILE => 04-295211_u-misc-dt21-sheet.dgn

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|---------|--------------------------|-----------|--------------|
| 04 | Ala | 580,680 | Var | 132 | 143 |

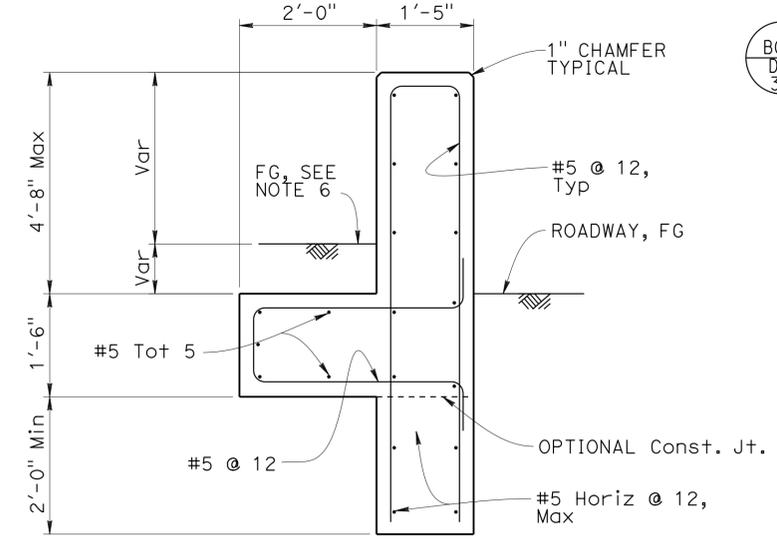
2-19-15
 REGISTERED CIVIL ENGINEER DATE
 3-30-15
 PLANS APPROVAL DATE
 No. C61373
 Exp. 6/30/15
 CIVIL
 STATE OF CALIFORNIA
 VICTOR O. LOPEZ
 REGISTERED PROFESSIONAL ENGINEER
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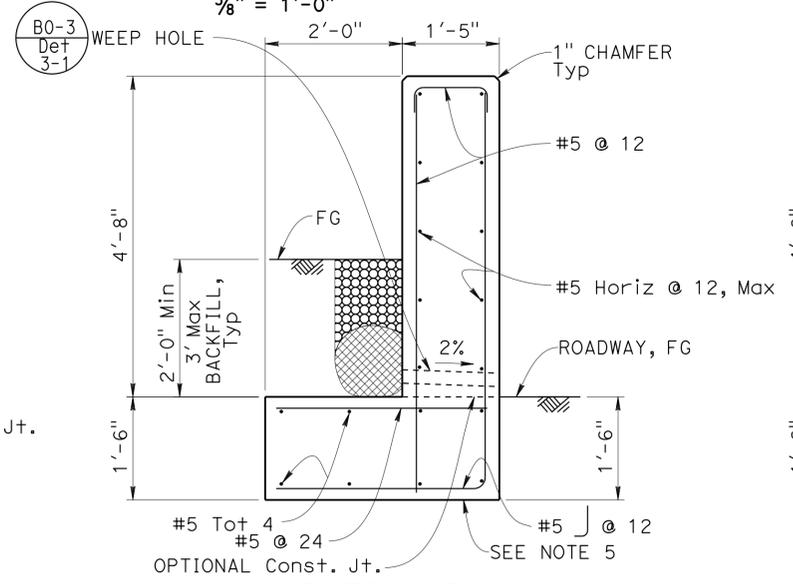
ELEVATION
3/8" = 1'-0"



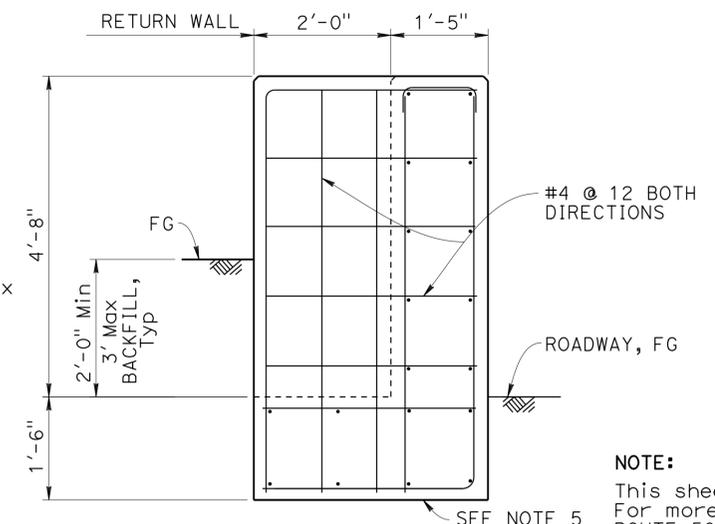
PLAN
3/8" = 1'-0"
DIRECTION OF TRAFFIC



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



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



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

LEGEND:
 - - - - - INDICATES NEW STRUCTURE
 _____ INDICATES EXISTING STRUCTURE

- NOTES:**
- See "ROADWAY PLANS" for alignment of barrier and other information not found on this sheet.
 - 4" Ø drains at 9'-0" center to center.
 - For "DETAIL A", "DETAIL B", "ALTERNATIVE ANCHORAGE" and "BACKFILL DETAILS", see "COLUMN PROTECTION AT BENT 2 DETAIL No. 2" sheet.
 - Maintain 4" (Min) gap to existing structure.
 - Where existing bridge footing is encountered, apply bond breaker between bridge footing and new structure.
 - Backfill to slope away from existing columns. Height of backfill to vary from 3'-0" Max. to 0' Min. For more details refer to "BACKFILL DRAINAGE DETAIL" on the "COLUMN PROTECTION AT BENT 2 DETAIL No. 2" sheet.
 - All plates & connections must be galvanized.

DESIGN DATA:

DESIGN:
 AASHTO LRFD Bridge Design specifications, 4th Edition with California Amendments
 $f_t = 54$ kips on barrier

REINFORCED CONCRETE:
 $f'_c = 3600$ psi
 $f_y = 60,000$ psi

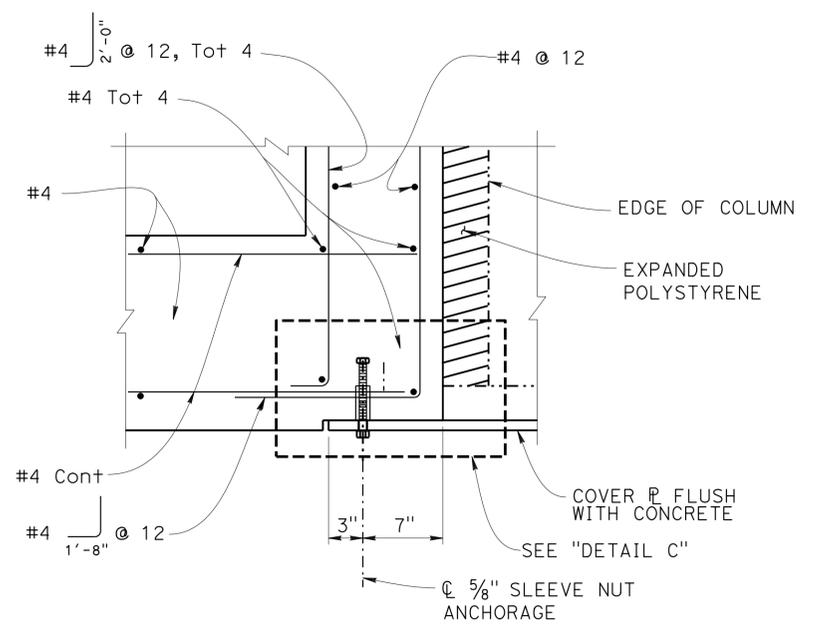
STRUCTURAL STEEL:
 $f_y = 50,000$ psi

NOTE:
 This sheet applies to location ID: number 61E. For more information see "LOCATION TABLE-ROUTE 580 No. 4" sheet and "ROADWAY PLANS".

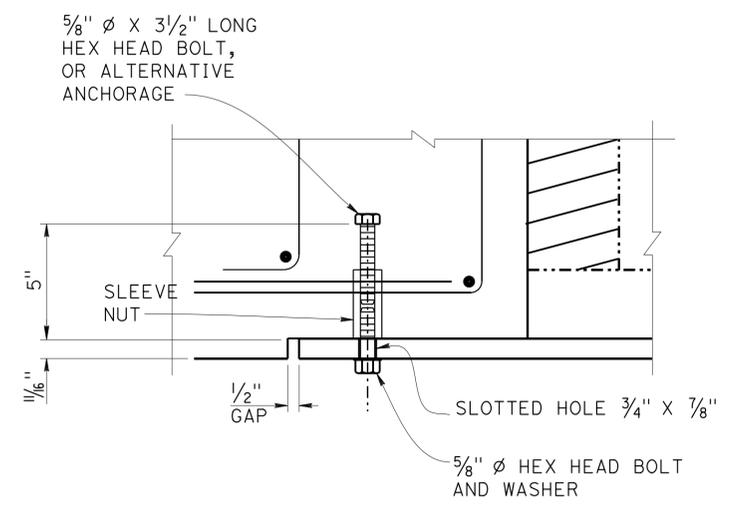
NOTE:
 The contractor must verify all controlling field dimensions before ordering or fabricating any material.

| | | | | | | | | |
|-------------------------------|------------|--------------------------------|------------------------|---|--|------------|---------|--|
| BRANCH CHIEF DAVID NEUMANN | DESIGN | BY VICTOR LOPEZ | CHECKED JOEL MAGANA | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES DESIGN AND TECHNICAL SERVICES SPECIAL DESIGNS BRANCH B | BRIDGE NO. | 33-0323 | CONCRETE BARRIER TYPE 60SD (MOD) CONCRETE BARRIER TRANSITIONS COLUMN PROTECTION AT BENT 2 DETAIL No. 1 |
| | DETAILS | BY SHUMEI JIANG BOB EDWARDS | CHECKED JOEL MAGANA | | | POST MILE | 41.33 | |
| | QUANTITIES | BY JOEL MAGANA | CHECKED MICHAEL CHARAK | | | | | |

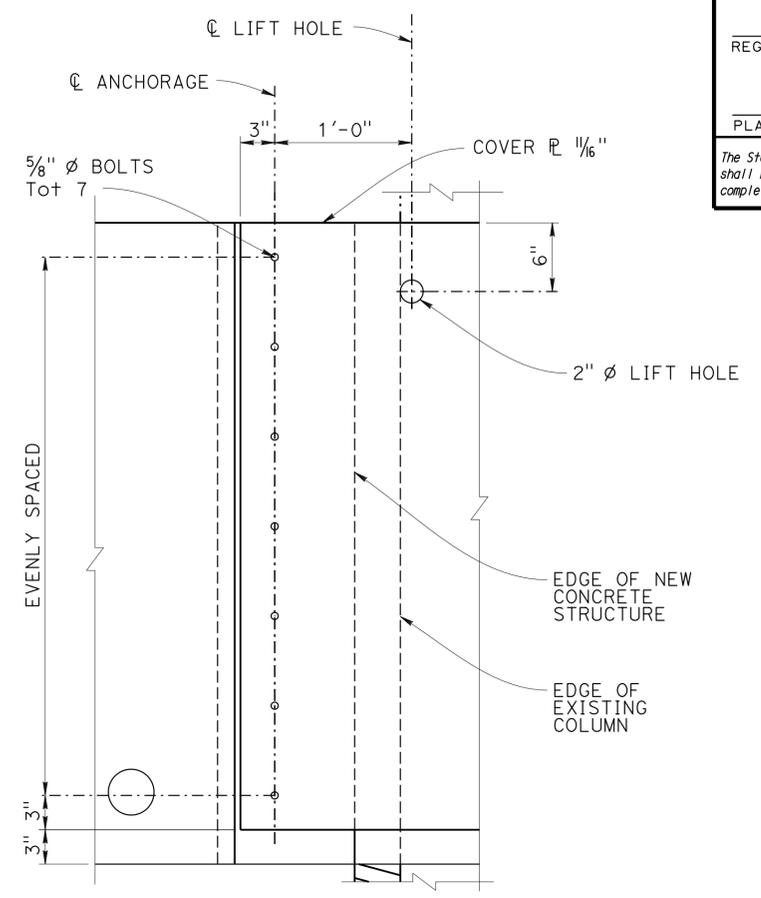
| | | | | | |
|--|--------|---------|--------------------------|---------------------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 04 | Ala | 580,680 | Var | 133 | 143 |
| <i>Victor O. Lopez</i> 2-19-15 REGISTERED CIVIL ENGINEER DATE | | | | | |
| 3-30-15 | | | | PLANS APPROVAL DATE | |
| <i>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.</i> | | | | | |



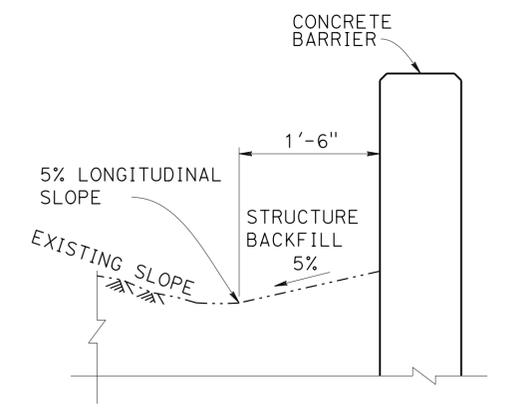
DETAIL A
1/2" = 1'-0"



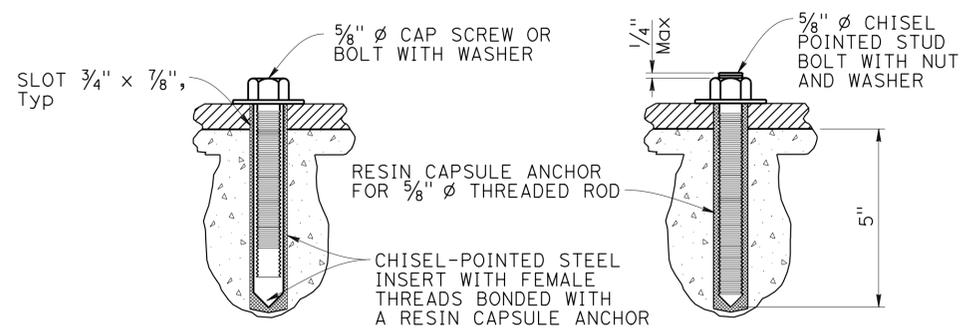
DETAIL C
3" = 1'-0"



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



BACKFILL DRAINAGE DETAIL
NO SCALE



ALTERNATIVE ANCHORAGE
NO SCALE

NOTE:
The contractor must verify all controlling field dimensions before ordering or fabricating any material.

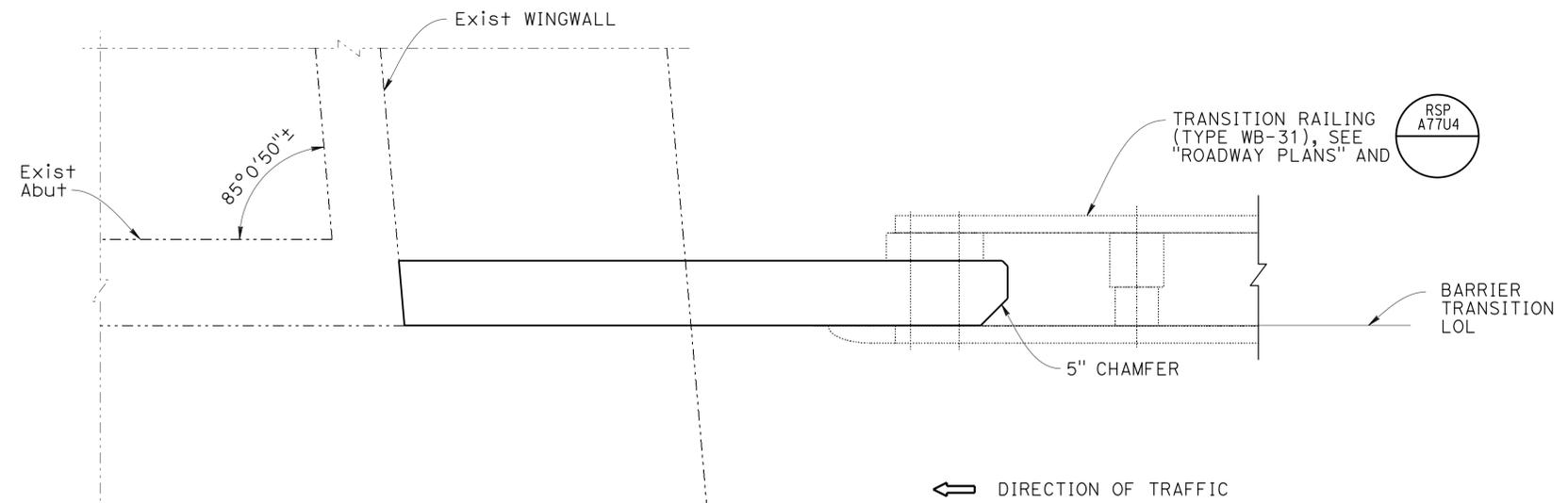
NOTE:
This sheet applies to location ID: number 61E. For more information, see "LOCATION TABLE - ROUTE 580 No. 4" sheet and "ROADWAY PLANS".

| | | | | | | | |
|-----------------------------------|------------|--------------------------------|------------------------|---|--|--------------------|--|
| BRANCH CHIEF <u>DAVID NEUMANN</u> | DESIGN | BY VICTOR LOPEZ | CHECKED JOEL MAGANA | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES DESIGN AND TECHNICAL SERVICES SPECIAL DESIGNS BRANCH B | BRIDGE NO. | CONCRETE BARRIER TYPE 60SD (MOD) CONCRETE BARRIER TRANSITIONS COLUMN PROTECTION AT BENT 2 DETAIL No. 2 |
| | DETAILS | BY SHUMEI JIANG BOB EDWARDS | CHECKED JOEL MAGANA | | | 33-0323 | |
| | QUANTITIES | BY JOEL MAGANA | CHECKED MICHAEL CHARAK | | | POST MILE 41.33 | |

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|---------|--------------------------|-----------|--------------|
| 04 | Ala | 580,680 | Var | 134 | 143 |

Victor O. Lopez 2-19-15
 REGISTERED CIVIL ENGINEER DATE
 3-30-15
 PLANS APPROVAL DATE
 No. C61373
 Exp. 6/30/15
 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.



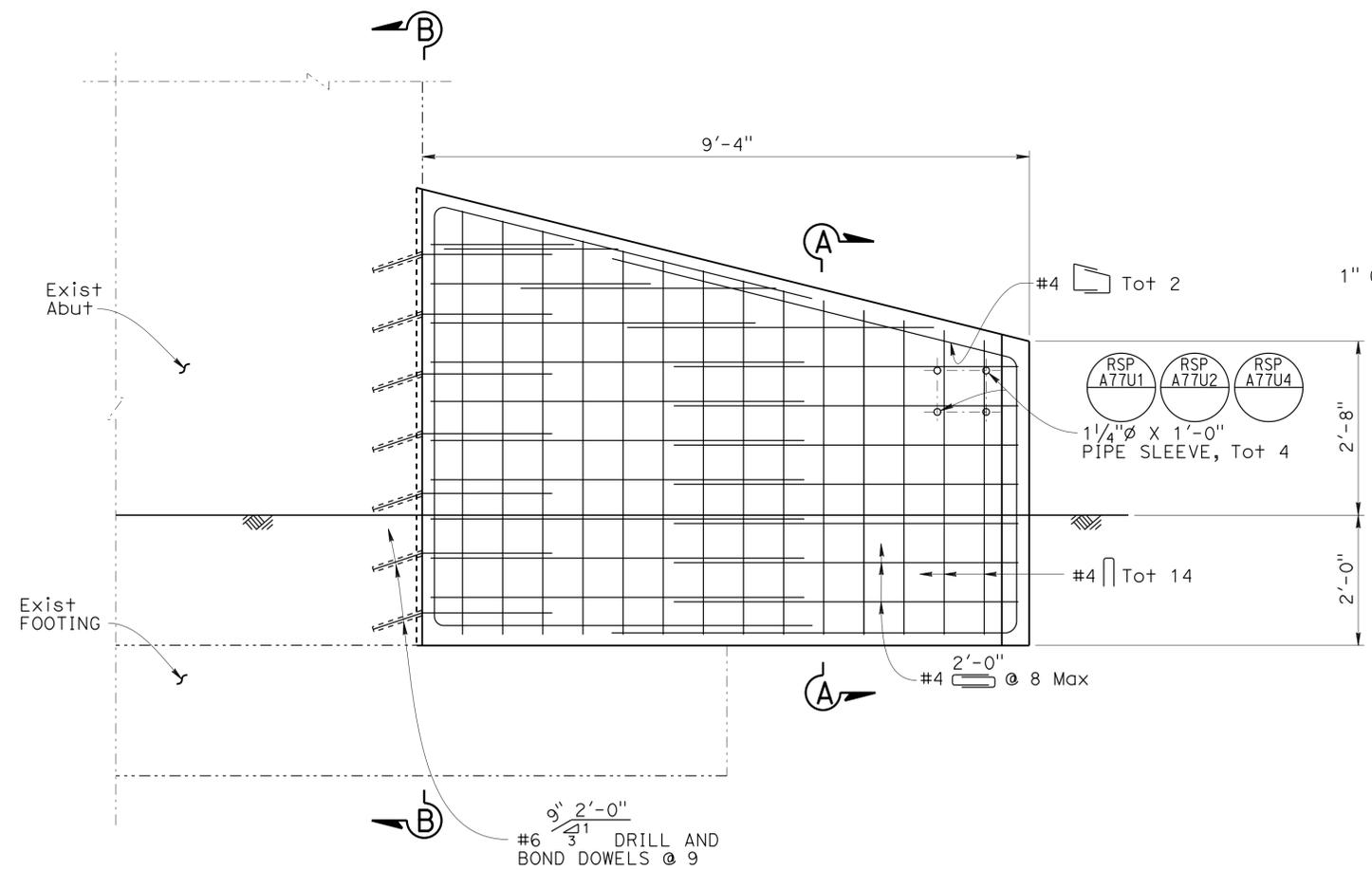
PLAN
1/2" = 1'-0"

LEGEND:

- Indicates existing structure
- Indicates new structure

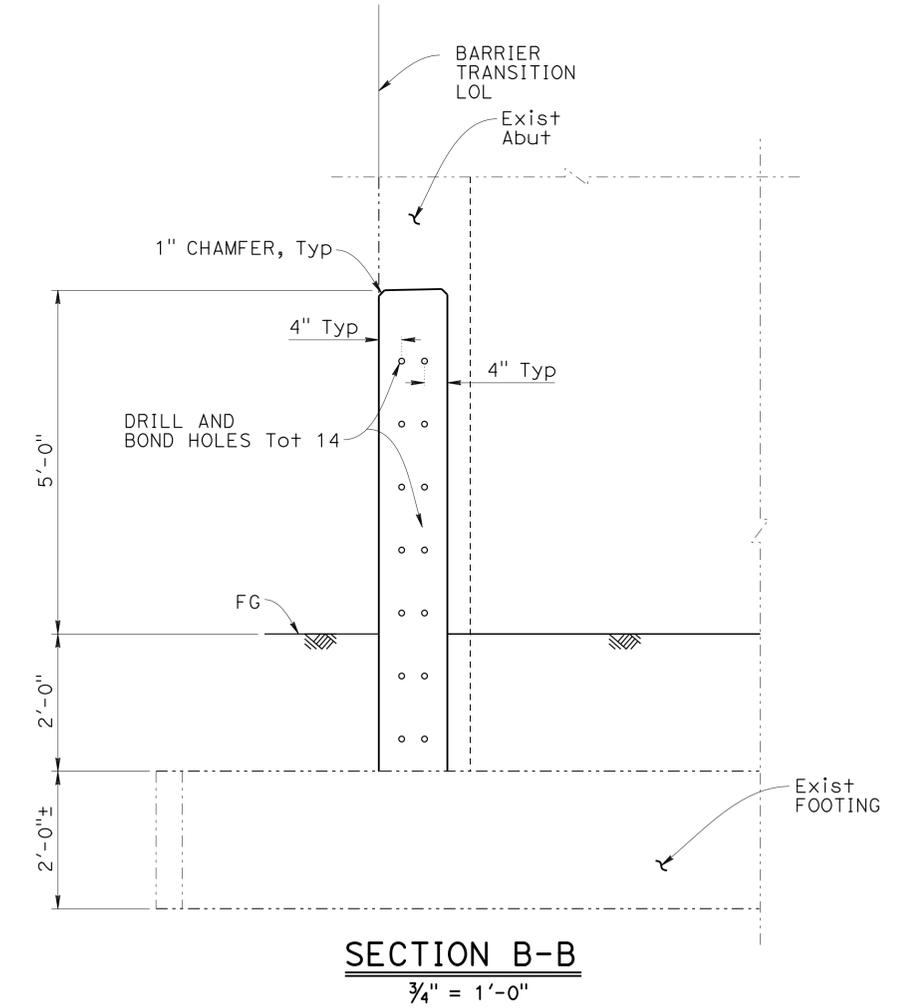
NOTES:

- Holes used for fastening existing MBGR shall be mortar filled, unless holes were cast using pipe sleeves.
- Existing barrier heights vary. Where exist barrier height is more than 2'-8", transition barrier height to 2'-8" @ 4:1 slope.



ELEVATION
1/2" = 1'-0"

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



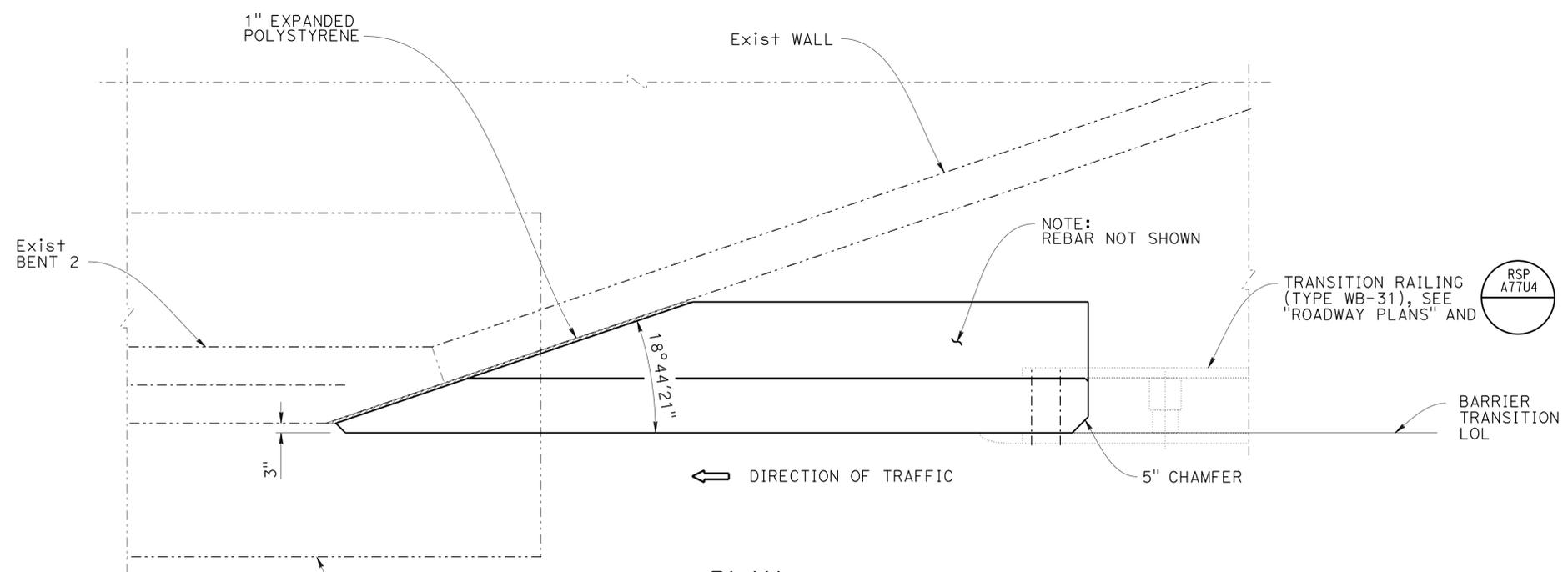
SECTION B-B
3/4" = 1'-0"

NOTE:
The contractor must verify all controlling field dimensions before ordering or fabricating any material.

NOTE:
This sheet applies to location ID: number 63. For more information see "LOCATION TABLE-ROUTE 580 No.4" sheet and "ROADWAY PLANS".

| | | | | | | | |
|--------------|------------|--------------------------------|------------------------|---|--|--------------------|---|
| BRANCH CHIEF | DESIGN | BY VICTOR LOPEZ | CHECKED JOEL MAGANA | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES DESIGN AND TECHNICAL SERVICES SPECIAL DESIGNS BRANCH B | BRIDGE NO. | CONCRETE BARRIER TRANSITIONS BRIDGE No. 33-0325 (ABUTMENT 3) |
| | DETAILS | BY SHUMEI JIANG BOB EDWARDS | CHECKED JOEL MAGANA | | | 33-0325 | |
| | QUANTITIES | BY JOEL MAGANA | CHECKED MICHAEL CHARAK | | | POST MILE 41.75 | |

| | | | | | |
|---|--------|---------|--------------------------|--|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 04 | Ala | 580,680 | Var | 135 | 143 |
| <i>Victor Lopez</i> 2-19-15 REGISTERED CIVIL ENGINEER DATE | | | | REGISTERED PROFESSIONAL ENGINEER VICTOR O. LOPEZ No. C61373 Exp. 6/30/15 CIVIL STATE OF CALIFORNIA | |
| 3-30-15 | | | | 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. | | | | | |



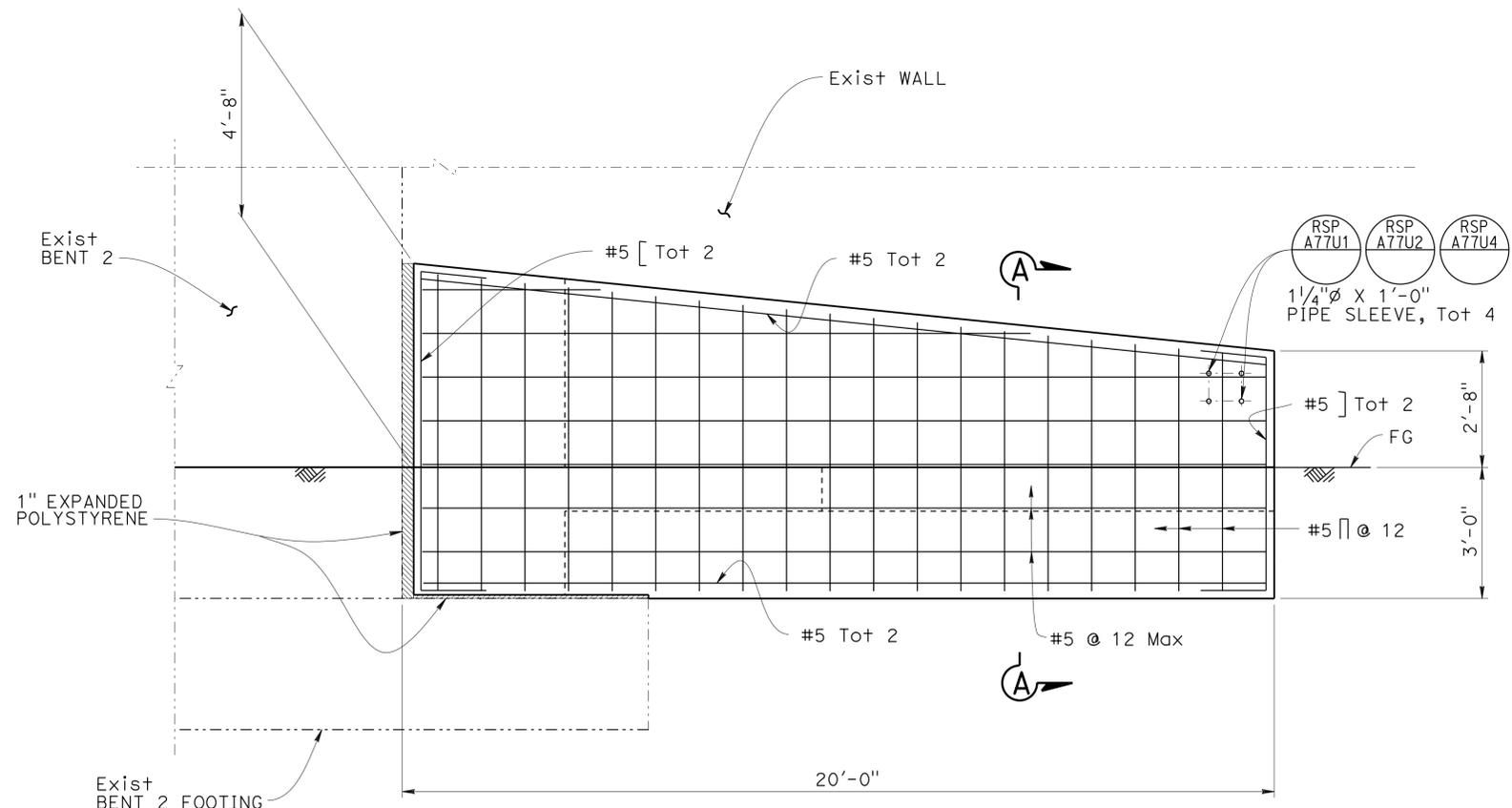
PLAN
1/2" = 1'-0"

LEGEND:

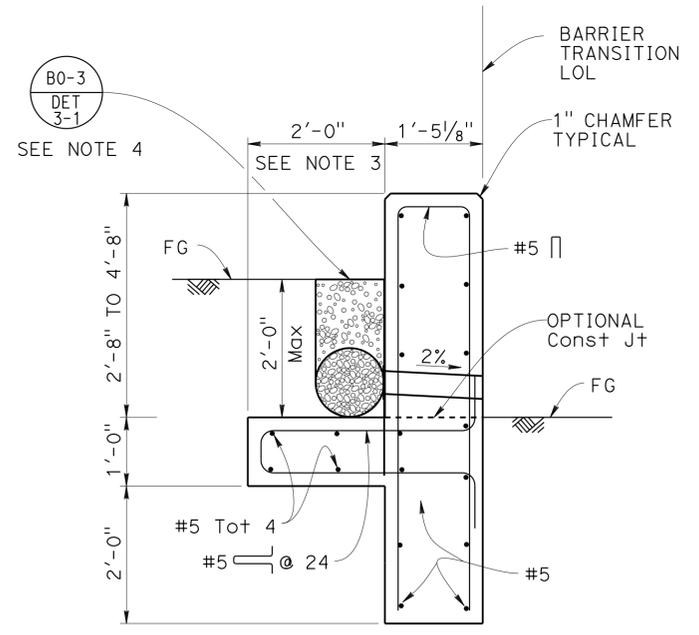
- Indicates existing structure
- Indicates new structure

NOTES:

- Holes used for fastening existing MBGR shall be mortar filled, unless holes were cast using pipe sleeves.
- Existing barrier heights vary. Where exist barrier height is more than 2'-8", transition barrier height to 2'-8" @ 4:1 slope.
- Varies between 0' Min to 2'-0" Max when in contact with existing wall and polystyrene.
- 4"Ø drains at 6'-0" center to center, total 3 located 4" above concrete surface.



ELEVATION
1/2" = 1'-0"



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

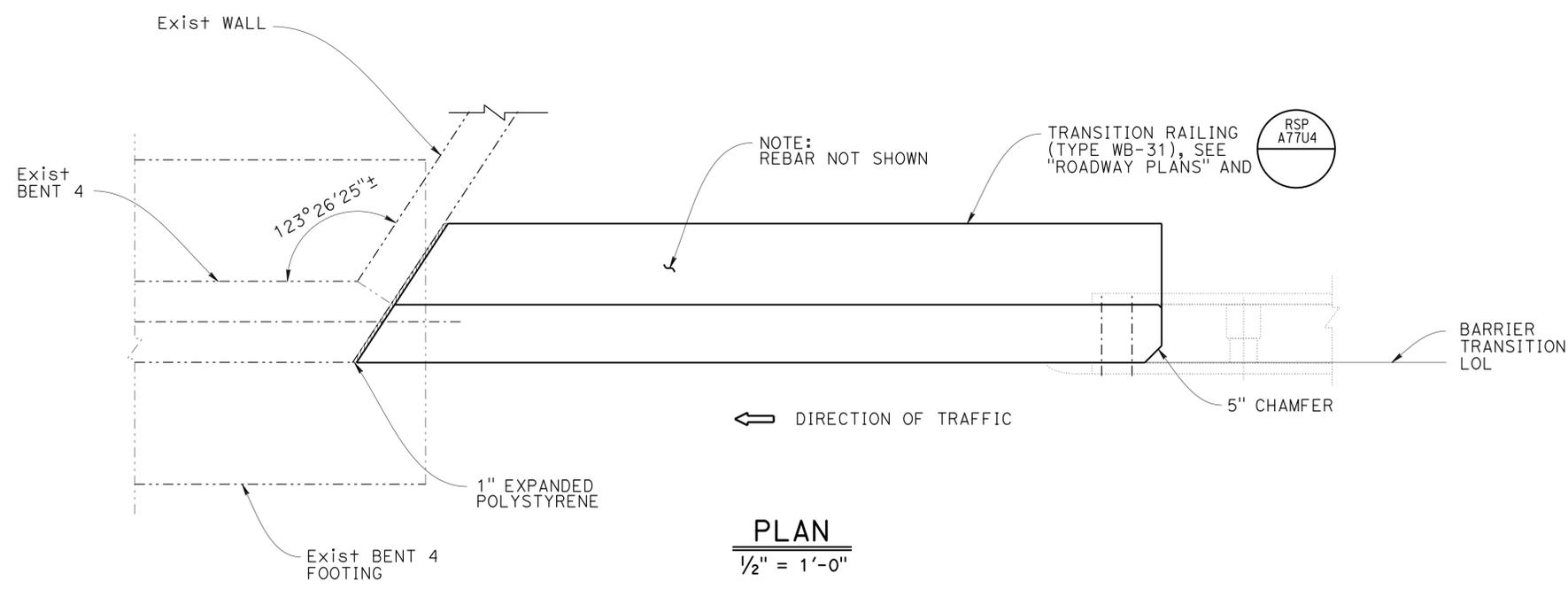
NOTE:

This sheet applies to location ID: number 41E. For more information see "LOCATION TABLE-ROUTE 580 No. 4" sheet and "ROADWAY PLANS".

NOTE:
The contractor must verify all controlling field dimensions before ordering or fabricating any material.

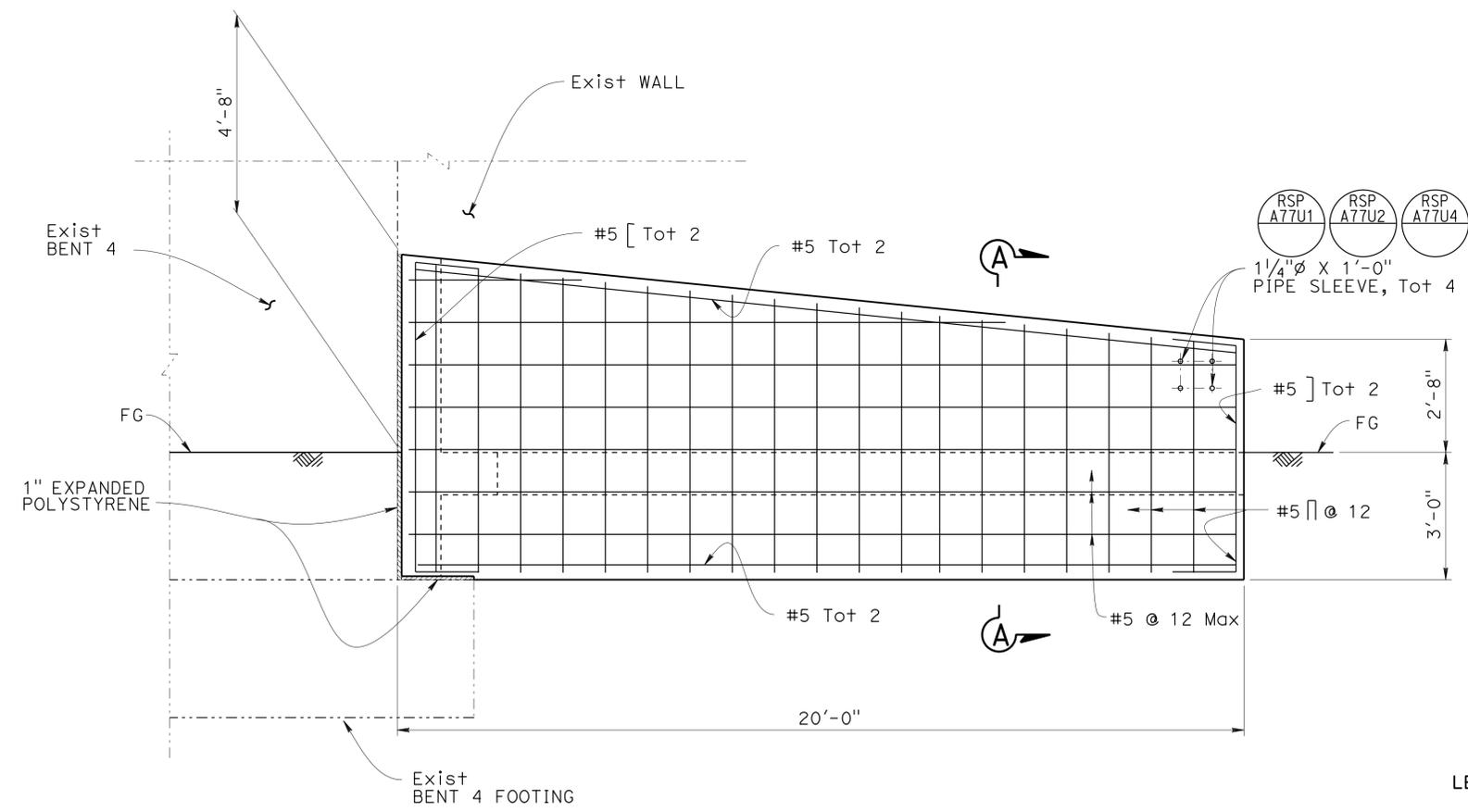
| | | | | | | | | | | | | |
|--|------------|--------------------------------|------------------------|--|--|------------|--------------------------------------|---|---|----------------|----------|-------|
| BRANCH CHIEF DAVID NEUMANN | DESIGN | BY VICTOR LOPEZ | CHECKED JOEL MAGANA | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES DESIGN AND TECHNICAL SERVICES SPECIAL DESIGNS BRANCH B | BRIDGE NO. | 33-0330 | CONCRETE BARRIER TRANSITIONS BRIDGE No. 33-0330 (BENT 2) | | | | |
| | DETAILS | BY SHUMEI JIANG BOB EDWARDS | CHECKED JOEL MAGANA | | | POST MILE | 33.94 | | | | | |
| | QUANTITIES | BY JOEL MAGANA | CHECKED MICHAEL CHARAK | | | | | | | | | |
| STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10) | | | | ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | 0 1 2 3 | UNIT: 3619 | PROJECT NUMBER & PHASE: 0414000064-1 | CONTRACT NO.: 04-205211 | DISREGARD PRINTS BEARING EARLIER REVISION DATES | REVISION DATES | SHEET 25 | OF 33 |

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|--------|---------|--------------------------|--------------------------------|--------------|
| 04 | Ala | 580,680 | Var | 136 | 143 |
| <i>Victor Lopez</i> 2-19-15 REGISTERED CIVIL ENGINEER DATE | | | | 3-30-15 PLANS APPROVAL DATE | |
| The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet. | | | | | |

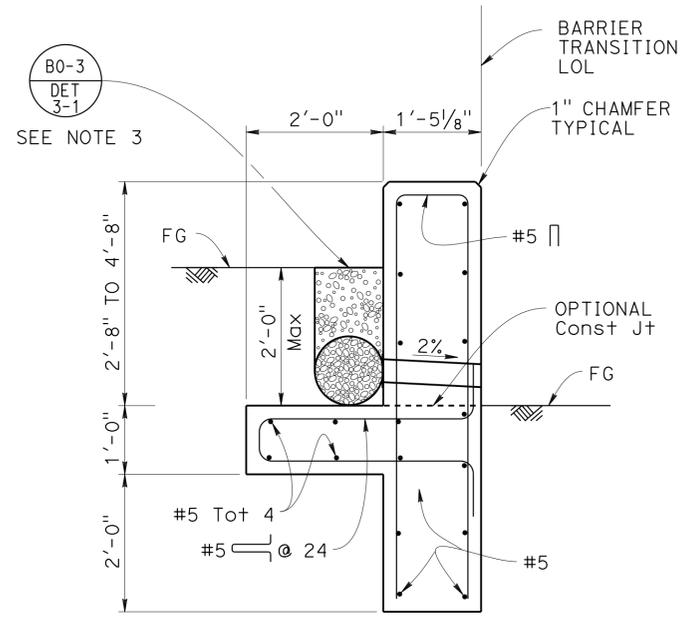


NOTES:

- Holes used for fastening existing MBGR shall be mortar filled, unless holes were cast using pipe sleeves.
- Existing barrier heights vary. Where exist barrier height is more than 2'-8", transition barrier height to 2'-8" @ 4:1 slope.
- 4"Ø drains at 6'-0" center to center, total 3 located 4" above top of concrete surface.



ELEVATION
1/2" = 1'-0"



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

LEGEND:

- Indicates existing structure
- Indicates new structure

NOTE:

This sheet applies to location ID: number 41W. For more information see "LOCATION TABLE-ROUTE 580 No. 4" sheet and "ROADWAY PLANS".

NOTE:
The contractor must verify all controlling field dimensions before ordering or fabricating any material.

| | | | | | | | | | | |
|--|------------|--------------------------------|------------------------|---|--|--|-------------------------|---|------------------------------------|----------------|
| BRANCH CHIEF DAVID NEUMANN | DESIGN | BY VICTOR LOPEZ | CHECKED JOEL MAGANA | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES DESIGN AND TECHNICAL SERVICES SPECIAL DESIGNS BRANCH B | BRIDGE NO. | 33-0330 | CONCRETE BARRIER TRANSITIONS | | |
| | DETAILS | BY SHUMEI JIANG BOB EDWARDS | CHECKED JOEL MAGANA | | | POST MILE | 33.94 | | BRIDGE No. 33-0330 (BENT 4) | |
| | QUANTITIES | BY JOEL MAGANA | CHECKED MICHAEL CHARAK | | | | | | | |
| STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10) | | | | ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | 0 1 2 3 | UNIT: 3619 PROJECT NUMBER & PHASE: 0414000064-1 | CONTRACT NO.: 04-205211 | DISREGARD PRINTS BEARING EARLIER REVISION DATES | REVISION DATES | SHEET 26 OF 33 |

| CONCRETE BARRIER TYPE 1 (CASE 1) ROUTE 580 | | | | | | | | | |
|--|------------|-------------------------------------|-----------|-----------------------|----------------------------|---------------|-------------------|---------------------------|---|
| LOCATION ID No. (SEE ROADWAY PLANS) | BRIDGE No. | BRIDGE NAME OR FACILITY DESCRIPTION | POST MILE | DIRECTION AND SIDE | No. OF CONNECTIONS (WB-31) | | GENERAL PLAN TYPE | TRANSITION LENGTH EA (LF) | CONCRETE BARRIER TRANSITION TOTAL LENGTH (LF) |
| | | | | | APPROACH END | DEPARTURE END | | | |
| 37L AND 37R | 33-0396L | Main Line 167th Ave UC | 31.38 | EB, LEFT EB, RIGHT | 1 1 | N/A | A | 3'-6" | 7'-0" |
| 38R | 33-0395K | 164th Ave UC On Ramp | 31.63 | EB, RIGHT | 1 | N/A | A | 3'-6" | 3'-6" |
| 39L AND 39R | 33-0395L | Main Line 164th Ave UC | 31.75 | EB, LEFT EB, RIGHT | 1 1 | N/A | A | 3'-6" | 7'-0" |
| 44R | 33-0334K | Foothill Blvd UC On Ramp | 34.66 | EB, RIGHT | 1 | N/A | A | 3'-6" | 3'-6" |
| 82L | 33-0302H | EN-CONN-Ramp | 45.48 | EB, LEFT | 1 | N/A | A | 3'-6" | 3'-6" |
| 80L | 33-0303H | EN-CONN-Ramp | 45.37 | EB, LEFT | 1 | N/A | A | 3'-6" | 3'-6" |
| 36 | 33-0396R | Main Line 167th Ave UC | 31.34 | WB, RIGHT | 1 | N/A | A | 3'-6" | 3'-6" |
| 74L AND 74R | 33-0303H | WS-CONN-Ramp | 45.14 | WB, LEFT WB, RIGHT | 1 1 | N/A | A | 3'-6" | 7'-0" |
| 77L AND 77R | 33-0302H | WN-CONN-Ramp | 45.23 | WB, LEFT WB, RIGHT | 1 1 | N/A | A | 3'-6" | 7'-0" |
| 83 | N/A | On from 24/52nd St Ramp | 45.57 | WB, RIGHT | 1 | N/A | A | 3'-6" | 3'-6" |

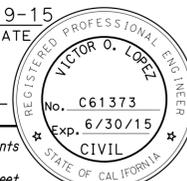
| CONCRETE BARRIER TYPE 1 (CASE 2) ROUTE 580 | | | | | | | | | |
|--|------------|---|-----------|--------------------|----------------------------|---------------|-------------------|---------------------------|---|
| LOCATION ID No. (SEE ROADWAY PLANS) | BRIDGE No. | BRIDGE NAME OR FACILITY DESCRIPTION | POST MILE | DIRECTION AND SIDE | No. OF CONNECTIONS (WB-31) | | GENERAL PLAN TYPE | TRANSITION LENGTH EA (LF) | CONCRETE BARRIER TRANSITION TOTAL LENGTH (LF) |
| | | | | | APPROACH END | DEPARTURE END | | | |
| 45E | 33-0335 | Main Line Foothill Blvd UC | 35.05 | EB, RIGHT | 1 | N/A | A | 3'-6" | 3'-6" |
| 46E | 33-0355 | Main Line 106th Ave UC | 35.71 | EB, RIGHT | 1 | N/A | A | 3'-6" | 3'-6" |
| 48 | 33-0354 | Main Line Golf Link Rd UC | 36.38 | EB, RIGHT | 1 | N/A | A | 3'-6" | 3'-6" |
| 50E | 33-0341 | Main Line Edwards Ave UC | 38.31 | EB, RIGHT | 1 | N/A | A | 3'-6" | 3'-6" |
| 51E | 33-0342 | Main Line Kuhnle Ave UC | 38.92 | EB, RIGHT | 1 | N/A | A | 3'-6" | 3'-6" |
| 65E | 33-0309L | Main Line 14th Ave UC | 42.07 | EB, RIGHT | 1 | N/A | A | 3'-6" | 3'-6" |
| 66E | 33-0310R | Main Line Beaumont Ave UC | 42.18 | EB, RIGHT | 1 | N/A | A | 3'-6" | 3'-6" |
| 67E | 33-0315L | Main Line Park Blvd UC | 42.67 | EB, RIGHT | 1 | N/A | A | 3'-6" | 3'-6" |
| 72 | 33-0288 | Main Line Oakland Ave UC | 44.28 | EB, RIGHT | 1 | N/A | A | 3'-6" | 3'-6" |
| 75 | 33-0296 | Main Line Webster St UC | 44.81 | EB, RIGHT | 1 | N/A | A | 3'-6" | 3'-6" |
| 76 | 33-0297 | Main Line Telegraph Ave UC | 45.03 | EB, RIGHT | 1 | N/A | A | 3'-6" | 3'-6" |
| 79 | 33-0299 | Main Line Martin Luther King Jr. UC | 45.25 | EB, RIGHT | 1 | N/A | A | 3'-6" | 3'-6" |

NOTE:
The contractor must verify all controlling field dimensions before ordering or fabricating any material.

NOTE:

For construction details of barrier transitions lengths identified in these location tables, refer to the specific barrier type sheet in each table description.

| | | | | | |
|------|--------|---------|--------------------------|-----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 04 | Ala | 580,680 | Var | 137 | 143 |



 REGISTERED CIVIL ENGINEER DATE 2-19-15
 PLANS APPROVAL DATE 3-30-15
 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.

| | | | | | | | |
|--------------|------------|--------------------------------|------------------------|---|--|------------|--|
| BRANCH CHIEF | DESIGN | BY VICTOR LOPEZ | CHECKED JOEL MAGANA | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES DESIGN AND TECHNICAL SERVICES SPECIAL DESIGNS BRANCH B | BRIDGE NO. | CONCRETE BARRIER TRANSITIONS LOCATION TABLE - ROUTE 580 No. 1 |
| | DETAILS | BY SHUMEI JIANG BOB EDWARDS | CHECKED JOEL MAGANA | | | VARIES | |
| | QUANTITIES | BY JOEL MAGANA | CHECKED MICHAEL CHARAK | | | VARIES | |

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

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

UNIT: 3619 PROJECT NUMBER & PHASE: 0414000064-1 CONTRACT NO.: 04-205211

DISREGARD PRINTS BEARING EARLIER REVISION DATES

| | | |
|---------------------------------|-------|----|
| REVISION DATES | SHEET | OF |
| 7-08-14 2-17-15 2-19-15 3-30-15 | 27 | 33 |

FILE => 04-2g5211_u-misc-dt27-sheet.dgn

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|---------|--------------------------|-----------|--------------|
| 04 | Ala | 580,680 | Var | 138 | 143 |

Victor O. Lopez 2-19-15
 REGISTERED CIVIL ENGINEER DATE
 3-30-15
 PLANS APPROVAL DATE
 No. C61373
 Exp. 6/30/15
 CIVIL
 STATE OF CALIFORNIA
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CONCRETE BARRIER TYPE 1 (CASE 2), ROUTE 580

| LOCATION ID No. (SEE ROADWAY PLANS) | BRIDGE No. | BRIDGE NAME OR FACILITY DESCRIPTION | POST MILE | DIRECTION AND SIDE | No. OF CONNECTIONS (WB-31) | | GENERAL PLAN TYPE | TRANSITION LENGTH EA (LF) | CONCRETE BARRIER TRANSITION TOTAL LENGTH (LF) |
|--|------------|-------------------------------------|-----------|--------------------|----------------------------|---------------|-------------------|---------------------------|---|
| | | | | | APPROACH END | DEPARTURE END | | | |
| 42W | 33-0331 | Main Line Joaquin Ave UC | 34.40 | WB, RIGHT | 1 | N/A | A | 3'-6" | 3'-6" |
| 45W | 33-0335 | Main Line Foothill Blvd UC | 35.05 | WB, RIGHT | 1 | N/A | A | 3'-6" | 3'-6" |
| 46W | 33-0355 | Main Line 106th Ave UC | 35.71 | WB, RIGHT | 1 | N/A | A | 3'-6" | 3'-6" |
| 47 | 33-0354 | Main Line Golf Link Rd UC | 36.34 | WB, RIGHT | 1 | N/A | A | 3'-6" | 3'-6" |
| 50W | 33-0341 | Main Line Edwards Ave UC | 38.31 | WB, RIGHT | 1 | N/A | A | 3'-6" | 3'-6" |
| 64R | 33-0309S | 14th Ave. UC Off Ramp | 42.07 | WB, RIGHT | 1 | N/A | A | 3'-6" | 3'-6" |
| 67W | 33-0315R | Main Line Park Blvd UC | 42.67 | WB, RIGHT | 1 | N/A | A | 3'-6" | 3'-6" |
| 70 | 33-0131 | Main Line Lakeshore Ave UC | 43.48 | WB, RIGHT | 1 | N/A | A | 3'-6" | 3'-6" |
| 84 | 33-0280 | Main Line Adeline St UC | 45.74 | WB, RIGHT | 1 | N/A | A | 3'-6" | 3'-6" |

CONCRETE BARRIER TYPE 1 (CASE 3), ROUTE 580

| LOCATION ID No. (SEE ROADWAY PLANS) | BRIDGE No. | BRIDGE NAME OR FACILITY DESCRIPTION | POST MILE | DIRECTION AND SIDE | No. OF CONNECTIONS (WB-31) | | GENERAL PLAN TYPE | TRANSITION LENGTH EA (LF) | CONCRETE BARRIER TRANSITION TOTAL LENGTH (LF) |
|--|------------|-------------------------------------|-----------|--------------------|----------------------------|---------------|-------------------|---------------------------|---|
| | | | | | APPROACH END | DEPARTURE END | | | |
| 86L | 33-0281R | Main Line MacArthur Blvd UC | 46.01 | WB, LEFT | 1 | N/A | A | 3'-6" | 3'-6" |

CONCRETE BARRIER TYPE 1 (CASE 4), ROUTE 580

| LOCATION ID No. (SEE ROADWAY PLANS) | BRIDGE No. | BRIDGE NAME OR FACILITY DESCRIPTION | POST MILE | DIRECTION AND SIDE | No. OF CONNECTIONS (WB-31) | | GENERAL PLAN TYPE | TRANSITION LENGTH EA (LF) | CONCRETE BARRIER TRANSITION TOTAL LENGTH (LF) |
|--|------------|-------------------------------------|-----------|--------------------|----------------------------|---------------|-------------------|---------------------------|---|
| | | | | | APPROACH END | DEPARTURE END | | | |
| 59E | 33-0318 | Main Line High St UC | 40.08 | EB, RIGHT | 1 | N/A | A | 4'-6"± | 4'-6" |
| 59W | 33-0318 | Main Line High St UC | 40.08 | WB, RIGHT | 1 | N/A | A | 4'-6"± | 4'-6" |

CONCRETE BARRIER TYPE 1 OVER DI (CASE 1), ROUTE 580

| LOCATION ID No. (SEE ROADWAY PLANS) | BRIDGE No. | BRIDGE NAME OR FACILITY DESCRIPTION | POST MILE | DIRECTION AND SIDE | No. OF CONNECTIONS (WB-31) | | GENERAL PLAN TYPE | TRANSITION LENGTH EA (LF) | CONCRETE BARRIER TRANSITION TOTAL LENGTH (LF) |
|--|------------|-------------------------------------|-----------|--------------------|----------------------------|---------------|-------------------|---------------------------|---|
| | | | | | APPROACH END | DEPARTURE END | | | |
| 65W | 33-0309R | 14th Avenue UC | 42.07 | WB, RIGHT | 1 | N/A | A | 10'-9"± | 10'-9"± |
| 66W | 33-0310R | Beaumont Avenue UC | 42.18 | WB, RIGHT | 1 | N/A | A | 11'-3"± | 11'-3"± |

CONCRETE BARRIER TYPE 1 OVER DI (CASE 2), ROUTE 580

| LOCATION ID No. (SEE ROADWAY PLANS) | BRIDGE No. | BRIDGE NAME OR FACILITY DESCRIPTION | POST MILE | DIRECTION AND SIDE | No. OF CONNECTIONS (WB-31) | | GENERAL PLAN TYPE | TRANSITION LENGTH EA (LF) | CONCRETE BARRIER TRANSITION TOTAL LENGTH (LF) |
|--|------------|-------------------------------------|-----------|--------------------|----------------------------|---------------|-------------------|---------------------------|---|
| | | | | | APPROACH END | DEPARTURE END | | | |
| 51W | 33-0342 | Main Line Kuhnle Ave UC | 38.92 | WB, RIGHT | 1 | N/A | A | 8'-1"± | 8'-1"± |
| 55 | 33-0316 | Main Line MacArthur Blvd UC | 39.77 | WB, RIGHT | 1 | N/A | A | 11'-6"± | 11'-6"± |

NOTE:
The contractor must verify all controlling field dimensions before ordering or fabricating any material.

NOTE:
For construction details of barrier transitions lengths identified in these location tables, refer to the specific barrier type sheet in each table description.

BRANCH CHIEF DAVID NEUMANN

| | | |
|------------|--------------------------------|------------------------|
| DESIGN | BY VICTOR LOPEZ | CHECKED JOEL MAGANA |
| DETAILS | BY SHUMEI JIANG BOB EDWARDS | CHECKED JOEL MAGANA |
| QUANTITIES | BY JOEL MAGANA | CHECKED MICHAEL CHARAK |

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
DESIGN AND TECHNICAL SERVICES
SPECIAL DESIGNS BRANCH **B**

| | |
|------------|--------|
| BRIDGE NO. | VARIES |
| POST MILE | VARIES |

CONCRETE BARRIER TRANSITIONS
LOCATION TABLE - ROUTE 580 No. 2

USERNAME => s141070 DATE PLOTTED => 16-APR-2015 TIME PLOTTED => 1:31:17

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|---------|--------------------------|-----------|--------------|
| 04 | Ala | 580,680 | Var | 139 | 143 |

Victor O. Lopez 2-19-15
 REGISTERED CIVIL ENGINEER DATE

3-30-15
 PLANS APPROVAL DATE

No. C61373
 Exp. 6/30/15
 CIVIL
 STATE OF CALIFORNIA

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CONCRETE BARRIER TYPE 1 OVER DI (CASE 3), ROUTE 580

| LOCATION ID No. (SEE ROADWAY PLANS) | BRIDGE No. | BRIDGE NAME OR FACILITY DESCRIPTION | POST MILE | DIRECTION AND SIDE | No. OF CONNECTIONS (WB-31) | | GENERAL PLAN TYPE | TRANSITION LENGTH EA (LF) | CONCRETE BARRIER TRANSITION TOTAL LENGTH (LF) |
|--|------------|-------------------------------------|-----------|--------------------|----------------------------|---------------|-------------------|---------------------------|---|
| | | | | | APPROACH END | DEPARTURE END | | | |
| 81W | 33-0299 | MLK Jr Way UC | 45.25 | WB, RIGHT | 1 | N/A | A | 9'-0" ± | 9'-0" ± |

CONCRETE BARRIER TYPE 1 WITH PARAPET WALL, ROUTE 580

| LOCATION ID No. (SEE ROADWAY PLANS) | BRIDGE No. | BRIDGE NAME OR FACILITY DESCRIPTION | POST MILE | DIRECTION AND SIDE | No. OF CONNECTIONS (WB-31) | | GENERAL PLAN TYPE | TRANSITION LENGTH EA (LF) | CONCRETE BARRIER TRANSITION TOTAL LENGTH (LF) |
|--|------------|-------------------------------------|-----------|--------------------|----------------------------|---------------|-------------------|---------------------------|---|
| | | | | | APPROACH END | DEPARTURE END | | | |
| 85L | 33-0280L | Main Line Adeline St UC | 45.94 | EB, LEFT | 1 | — | A | 3'-6" | 3'-6" |

CONCRETE BARRIER TYPE 2 (CASE 1), ROUTE 580

| LOCATION ID No. (SEE ROADWAY PLANS) | BRIDGE No. | BRIDGE NAME OR FACILITY DESCRIPTION | POST MILE | DIRECTION AND SIDE | No. OF CONNECTIONS (WB-31) | | GENERAL PLAN TYPE | TRANSITION LENGTH EA (LF) | CONCRETE BARRIER TRANSITION TOTAL LENGTH (LF) |
|--|------------|-------------------------------------|-----------|--------------------|----------------------------|---------------|-------------------|---------------------------|---|
| | | | | | APPROACH END | DEPARTURE END | | | |
| 38L | 33-0393K | Ramp On/ 164th Avenue UC | 31.63 | EB, LEFT | 1 | — | A | 5'-4" | 5'-4" |
| 44L | 33-0334K | Ramp/On from SB Foothill Blvd. UC | 34.88 | EB, LEFT | 1 | — | A | 5'-4" | 5'-4" |
| 43E | 33-0333 | Main Line/Dutton Ave UC | 34.82 | EB, RIGHT | 1 | — | A | 5'-4" | 5'-4" |
| 56 | 33-0317 | Main Line MacArthur Blvd UC | 39.85 | EB, RIGHT | 1 | — | A | 5'-4" | 5'-4" |
| 78 | 33-0297K | Telegraph Ave UC Off-Ramp | 45.03 | EB, RIGHT | 1 | — | A | 5'-4" | 5'-4" |
| 52 | 33-0343 | Main Line/Davenport Ave UC | 39.37 | WB, RIGHT | 1 | — | A | 5'-4" | 5'-4" |
| 60 | 33-0321 | Main Line/Maple Ave. UC | 40.93 | WB, RIGHT | 1 | — | A | 5'-4" | 5'-4" |
| 73 | 33-0285 | Main Line/Broadway Richmond Blvd UC | 44.51 | WB, RIGHT | 1 | — | A | 5'-4" | 5'-4" |

CONCRETE BARRIER TYPE 2 (CASE 2), ROUTE 580

| LOCATION ID No. (SEE ROADWAY PLANS) | BRIDGE No. | BRIDGE NAME OR FACILITY DESCRIPTION | POST MILE | DIRECTION AND SIDE | No. OF CONNECTIONS (WB-31) | | GENERAL PLAN TYPE | TRANSITION LENGTH EA (LF) | CONCRETE BARRIER TRANSITION TOTAL LENGTH (LF) |
|--|------------|-------------------------------------|-----------|--------------------|----------------------------|---------------|-------------------|---------------------------|---|
| | | | | | APPROACH END | DEPARTURE END | | | |
| 64L | 33-0309S | 14th Ave UC Off-Ramp | 42.07 | WB, LEFT | 1 | — | A | 7'-0" ± | 7'-0" ± |

CONCRETE BARRIER TYPE 2 OVER DI, ROUTE 580

| LOCATION ID No. (SEE ROADWAY PLANS) | BRIDGE No. | BRIDGE NAME OR FACILITY DESCRIPTION | POST MILE | DIRECTION AND SIDE | No. OF CONNECTIONS (WB-31) | | GENERAL PLAN TYPE | TRANSITION LENGTH EA (LF) | CONCRETE BARRIER TRANSITION TOTAL LENGTH (LF) |
|--|------------|-------------------------------------|-----------|--------------------|----------------------------|---------------|-------------------|---------------------------|---|
| | | | | | APPROACH END | DEPARTURE END | | | |
| 42E | 33-0331 | Main Line/Joaquin Ave UC | 34.40 | EB, RIGHT | 1 | — | A | 27'-3" ± | 27'-3" ± |

NOTE:
The contractor must verify all controlling field dimensions before ordering or fabricating any material.

NOTE:
For construction details of barrier transitions lengths identified in these location tables, refer to the specific barrier type sheet in each table description.

| | | | | | | | | |
|-------------------------------|------------|--------------------------------|------------------------|---|--|----------------|----------------|--|
| BRANCH CHIEF DAVID NEUMANN | DESIGN | BY VICTOR LOPEZ | CHECKED JOEL MAGANA | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES DESIGN AND TECHNICAL SERVICES SPECIAL DESIGNS BRANCH B | BRIDGE NO. | VARIES | CONCRETE BARRIER TRANSITIONS LOCATION TABLE - ROUTE 580 No. 3 |
| | DETAILS | BY SHUMEI JIANG BOB EDWARDS | CHECKED JOEL MAGANA | | | POST MILE | VARIES | |
| | QUANTITIES | BY JOEL MAGANA | CHECKED MICHAEL CHARAK | | | REVISION DATES | SHEET 29 OF 33 | |

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 UNIT: 3619 PROJECT NUMBER & PHASE: 0414000064-1 CONTRACT NO.: 04-205211 DISREGARD PRINTS BEARING EARLIER REVISION DATES

FILE => 04-295211_L_u-misc-dt29-sheet.dgn

USERNAME => s141070 DATE PLOTTED => 16-APR-2015 TIME PLOTTED => 1:31:17

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|---------|--------------------------|-----------|--------------|
| 04 | Ala | 580,680 | Var | 140 | 143 |

Victor O. Lopez 2-19-15
 REGISTERED CIVIL ENGINEER DATE

3-30-15
 PLANS APPROVAL DATE

No. C61373
 Exp. 6/30/15
 CIVIL
 STATE OF CALIFORNIA

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REINFORCED CONCRETE RETAINING WALLS ROUTE 580

| LOCATION ID No. (SEE ROADWAY PLANS) | BRIDGE No. | BRIDGE NAME OR FACILITY DESCRIPTION | POST MILE | DIRECTION AND SIDE | No. OF CONNECTIONS (WB-31) | | GENERAL PLAN TYPE | TRANSITION LENGTH EA (LF) | CONCRETE BARRIER TRANSITION TOTAL LENGTH (LF) |
|--|--------------|-------------------------------------|-----------|--------------------|----------------------------|---------------|-------------------|---------------------------|---|
| | | | | | APPROACH END | DEPARTURE END | | | |
| 40 | NEAR 33-0337 | Main Line/Fairmont Drive OC | 32.72 | WB, RIGHT | 1 | — | N/A | 7'-0" | 7'-0" |
| 54 | N/A | Ramp/On from Mountain Blvd/Rte 13 | 39.45 | WB, RIGHT | 1 | — | N/A | 5'-0" | 5'-0" |
| 57 | 33-0328 | Main Line/Birdsall Ave POC | 39.93 | WB, RIGHT | 1 | — | N/A | 5'-0" | 5'-0" |
| 61W | 33-0323 | Main Line/Boston Ave OC | 41.33 | WB, RIGHT | 1 | — | N/A | 6'-4" | 6'-4" |
| 62 | N/A | Ramp/Off to Fruitvale Ave | 41.67 | EB, RIGHT | 1 | — | N/A | 5'-4" | 5'-4" |

BRIDGE No. 33-0323 COLUMN PROTECTION AT BENT 2 ROUTE 580 (See Note 2)

| LOCATION ID No. (SEE ROADWAY PLANS) | BRIDGE No. | BRIDGE NAME OR FACILITY DESCRIPTION | POST MILE | DIRECTION AND SIDE | No. OF CONNECTIONS (WB-31) | | GENERAL PLAN TYPE | TRANSITION LENGTH EA (LF) | CONCRETE BARRIER TRANSITION TOTAL LENGTH (LF) |
|--|------------|-------------------------------------|-----------|--------------------|----------------------------|---------------|-------------------|---------------------------|---|
| | | | | | APPROACH END | DEPARTURE END | | | |
| 61E | 33-0323 | Main Line/Boston Ave OC (Bent 2) | 41.33 | EB, RIGHT | 1 | 1 | N/A | 68'-5"± | 68'-5"± |

BRIDGE No. 33-0325 (ABUTMENT 3) ROUTE 580

| LOCATION ID No. (SEE ROADWAY PLANS) | BRIDGE No. | BRIDGE NAME OR FACILITY DESCRIPTION | POST MILE | DIRECTION AND SIDE | No. OF CONNECTIONS (WB-31) | | GENERAL PLAN TYPE | TRANSITION LENGTH EA (LF) | CONCRETE BARRIER TRANSITION TOTAL LENGTH (LF) |
|--|------------|--------------------------------------|-----------|--------------------|----------------------------|---------------|-------------------|---------------------------|---|
| | | | | | APPROACH END | DEPARTURE END | | | |
| 63 | 33-0325 | Main Line/Sheffield Ave OC (Abut. 3) | 41.75 | EB, RIGHT | 1 | — | N/A | 9'-4" | 9'-4" |

BRIDGE No. 33-0330 (BENT 2) ROUTE 580

| LOCATION ID No. (SEE ROADWAY PLANS) | BRIDGE No. | BRIDGE NAME OR FACILITY DESCRIPTION | POST MILE | DIRECTION AND SIDE | No. OF CONNECTIONS (WB-31) | | GENERAL PLAN TYPE | TRANSITION LENGTH EA (LF) | CONCRETE BARRIER TRANSITION TOTAL LENGTH (LF) |
|--|------------|-------------------------------------|-----------|--------------------|----------------------------|---------------|-------------------|---------------------------|---|
| | | | | | APPROACH END | DEPARTURE END | | | |
| 41E | 33-0330 | Main Line/Grand Ave OC (Bent 2) | 33.94 | EB, RIGHT | 1 | — | N/A | 20'-0" | 20'-0" |

BRIDGE No. 33-0330 (BENT 4) ROUTE 580

| LOCATION ID No. (SEE ROADWAY PLANS) | BRIDGE No. | BRIDGE NAME OR FACILITY DESCRIPTION | POST MILE | DIRECTION AND SIDE | No. OF CONNECTIONS (WB-31) | | GENERAL PLAN TYPE | TRANSITION LENGTH EA (LF) | CONCRETE BARRIER TRANSITION TOTAL LENGTH (LF) |
|--|------------|-------------------------------------|-----------|--------------------|----------------------------|---------------|-------------------|---------------------------|---|
| | | | | | APPROACH END | DEPARTURE END | | | |
| 41W | 33-0330 | Main Line/Grand Ave OC (Bent 4) | 33.94 | WB, RIGHT | 1 | — | N/A | 20'-0" | 20'-0" |

NOTE:
The contractor must verify all controlling field dimensions before ordering or fabricating any material.

- NOTES:
- For construction details of barrier transitions lengths identified in these location tables, refer to the specific barrier type sheet in each table description.
 - This location consists of a total of 3 segments.

| | | | | | | | |
|-----------------------------------|------------|--------------------------------|------------------------|--|---|------------|--|
| BRANCH CHIEF <u>DAVID NEUMANN</u> | DESIGN | BY VICTOR LOPEZ | CHECKED JOEL MAGANA | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES DESIGN AND TECHNICAL SERVICES SPECIAL DESIGNS BRANCH | BRIDGE NO. | CONCRETE BARRIER TRANSITIONS LOCATION TABLE - ROUTE 580 No. 4 |
| | DETAILS | BY SHUMEI JIANG BOB EDWARDS | CHECKED JOEL MAGANA | | | VARIES | |
| | QUANTITIES | BY JOEL MAGANA | CHECKED MICHAEL CHARAK | | | VARIES | |

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 UNIT: 3619 PROJECT NUMBER & PHASE: 0414000064-1 CONTRACT NO.: 04-205211 DISREGARD PRINTS BEARING EARLIER REVISION DATES

| REVISION DATES | SHEET | OF |
|---------------------------------|-------|----|
| 7-08-14 2:12:15 3-28-14 1-14-15 | 30 | 33 |

FILE => 04-295211_u-misc-dt30-sheet.dgn

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|---------|--------------------------|-----------|--------------|
| 04 | Ala | 580,680 | Var | 141 | 143 |

Victor Lopez 2-19-15
 REGISTERED CIVIL ENGINEER DATE

3-30-15
 PLANS APPROVAL DATE

No. C61373
 Exp. 6/30/15
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 STATE OF CALIFORNIA

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CONCRETE BARRIER TYPE 25 (CASE 1) ROUTE 580

| LOCATION ID No. (SEE ROADWAY PLANS) | BRIDGE No. | BRIDGE NAME OR FACILITY DESCRIPTION | POST MILE | DIRECTION AND SIDE | No. OF CONNECTIONS (WB-31) | | GENERAL PLAN TYPE | TRANSITION LENGTH EA (LF) | CONCRETE BARRIER TRANSITION TOTAL LENGTH (LF) |
|--|------------|-------------------------------------|-----------|--------------------|----------------------------|---------------|-------------------|---------------------------|---|
| | | | | | APPROACH END | DEPARTURE END | | | |
| 13 | N/A | Ramp/Off to Dougherty/Hopyard Rd | 19.62 | WB, RIGHT | 1 | — | N/A | 3'-6" | 3'-6" |
| 32L AND 32R | 33-0189R | Main Line Strobridge Ave UC | 30.35 | WB, RIGHT | 1 | — | A | 3'-6" | 7'-0" |
| | | | | WB, LEFT | 1 | — | | | |
| 33 | 33-0189L | Main Line Strobridge Ave UC | 30.39 | EB, RIGHT | 1 | — | A | 3'-6" | 3'-6" |
| 34 | 33-0202R | Main Line Castro Valley Blvd UC | 30.55 | WB, RIGHT | 1 | — | A | 3'-6" | 3'-6" |

CONCRETE BARRIER TYPE 25 (MOD) (CASE 2) ROUTE 580

| LOCATION ID No. (SEE ROADWAY PLANS) | BRIDGE No. | BRIDGE NAME OR FACILITY DESCRIPTION | POST MILE | DIRECTION AND SIDE | No. OF CONNECTIONS (WB-31) | | GENERAL PLAN TYPE | TRANSITION LENGTH EA (LF) | CONCRETE BARRIER TRANSITION TOTAL LENGTH (LF) |
|--|------------|-------------------------------------|-----------|--------------------|----------------------------|---------------|-------------------|---------------------------|---|
| | | | | | APPROACH END | DEPARTURE END | | | |
| 12 | 33-0150L | Main Line Dougherty UC | 19.39 | EB, RIGHT | 1 | — | A | 6'-0" | 6'-0" |

CONCRETE BARRIER TYPE 25 WITH SOUNDWALL ROUTE 580

| LOCATION ID No. (SEE ROADWAY PLANS) | BRIDGE No. | BRIDGE NAME OR FACILITY DESCRIPTION | POST MILE | DIRECTION AND SIDE | No. OF CONNECTIONS (WB-31) | | GENERAL PLAN TYPE | TRANSITION LENGTH EA (LF) | CONCRETE BARRIER TRANSITION TOTAL LENGTH (LF) |
|--|------------|-------------------------------------|-----------|--------------------|----------------------------|---------------|-------------------|---------------------------|---|
| | | | | | APPROACH END | DEPARTURE END | | | |
| 68 | N/A | Ramp/On from Park Blvd | 42.89 | WB, RIGHT | 1 | — | A | 9'-4" | 9'-4" |

CONCRETE BARRIER TYPE 27 AND RETAINING WALL (CASE 1) ROUTE 580

| LOCATION ID No. (SEE ROADWAY PLANS) | BRIDGE No. | BRIDGE NAME OR FACILITY DESCRIPTION | POST MILE | DIRECTION AND SIDE | No. OF CONNECTIONS (WB-31) | | GENERAL PLAN TYPE | TRANSITION LENGTH EA (LF) | CONCRETE BARRIER TRANSITION TOTAL LENGTH (LF) |
|--|------------|-------------------------------------|-----------|--------------------|----------------------------|---------------|-------------------|---------------------------|---|
| | | | | | APPROACH END | DEPARTURE END | | | |
| 58 | N/A | Ramp/Off to SB MacArthur Blvd. | 39.95 | EB, RIGHT | 1 | — | A | 6'-8" | 6'-8" |

CONCRETE BARRIER TYPE 27 AND RETAINING WALL (CASE 2) ROUTE 580

| LOCATION ID No. (SEE ROADWAY PLANS) | BRIDGE No. | BRIDGE NAME OR FACILITY DESCRIPTION | POST MILE | DIRECTION AND SIDE | No. OF CONNECTIONS (WB-31) | | GENERAL PLAN TYPE | TRANSITION LENGTH EA (LF) | CONCRETE BARRIER TRANSITION TOTAL LENGTH (LF) |
|--|------------|---|-----------|--------------------|----------------------------|---------------|-------------------|---------------------------|---|
| | | | | | APPROACH END | DEPARTURE END | | | |
| 71 | N/A | Ramp/Off to Santa Clara Ave./Oakland Ave. | 44.08 | WB, RIGHT | 1 | — | A | 5'-4" | 5'-4" |

NOTE:
The contractor must verify all controlling field dimensions before ordering or fabricating any material.

NOTE:
For construction details of barrier transitions lengths identified in these location tables, refer to the specific barrier type sheet in each table description.

| | | | | | | |
|-----------------------------------|--|------------------------|---|--|-------------------|--|
| BRANCH CHIEF <u>DAVID NEUMANN</u> | DESIGN BY VICTOR LOPEZ | CHECKED JOEL MAGANA | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES DESIGN AND TECHNICAL SERVICES SPECIAL DESIGNS BRANCH B | BRIDGE NO. VARIES | CONCRETE BARRIER TRANSITIONS LOCATION TABLE - ROUTE 580 No. 5 |
| | DETAILS BY SHUMEI JIANG BOB EDWARDS | CHECKED JOEL MAGANA | | | POST MILE VARIES | |
| | QUANTITIES BY JOEL MAGANA | CHECKED MICHAEL CHARAK | | | VARIES | |

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 UNIT: 3619 PROJECT NUMBER & PHASE: 0414000064-1 CONTRACT NO.: 04-205211 DISREGARD PRINTS BEARING EARLIER REVISION DATES

| REVISION DATES | SHEET | OF |
|----------------------------------|-------|----|
| 7-08-14 2-17-15 2-19-15 10-23-15 | 31 | 33 |

FILE => 04-295211_u-misc-dt31-sheet.dgn

1317
 16-APR-2015
 DATE PLOTTED =>

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|---------|--------------------------|-----------|--------------|
| 04 | Ala | 580,680 | Var | 142 | 143 |

Victor Lopez 2-19-15
 REGISTERED CIVIL ENGINEER DATE
 3-30-15
 PLANS APPROVAL DATE
 No. C61373
 Exp. 6/30/15
 CIVIL
 STATE OF CALIFORNIA
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| CONCRETE BARRIER TYPE 2 (CASE 1) ROUTE 680 | | | | | | | | | |
|--|------------|-------------------------------------|-----------|--------------------|----------------------------|---------------|-------------------|---------------------------|---|
| LOCATION ID No. (SEE ROADWAY PLANS) | BRIDGE No. | BRIDGE NAME OR FACILITY DESCRIPTION | POST MILE | DIRECTION AND SIDE | No. OF CONNECTIONS (WB-31) | | GENERAL PLAN TYPE | TRANSITION LENGTH EA (LF) | CONCRETE BARRIER TRANSITION TOTAL LENGTH (LF) |
| | | | | | APPROACH END | DEPARTURE END | | | |
| 157 RAMP | 33-0371G | 680-580 Sep | 20.03 | NB, LEFT | 1 | — | A | 5'-4" | 5'-4" |

| CONCRETE BARRIER TYPE 25 (CASE 1) ROUTE 680 | | | | | | | | | |
|---|------------|---|-----------|-----------------------|----------------------------|---------------|-------------------|---------------------------|---|
| LOCATION ID No. (SEE ROADWAY PLANS) | BRIDGE No. | BRIDGE NAME OR FACILITY DESCRIPTION | POST MILE | DIRECTION AND SIDE | No. OF CONNECTIONS (WB-31) | | GENERAL PLAN TYPE | TRANSITION LENGTH EA (LF) | CONCRETE BARRIER TRANSITION TOTAL LENGTH (LF) |
| | | | | | APPROACH END | DEPARTURE END | | | |
| 155L AND 155R | 33-0582S | On from WB Stoneridge Dr Alamo Canal Ramp | 19.32 | NB, RIGHT NB, LEFT | 1 1 | — | A | 3'-6" | 7'-0" |
| 156 | N/A | Off to EB Rte 580-Hopyard | 19.81 | NB, RIGHT | 1 | — | N/A | 3'-6" | 3'-6" |
| 158 | 33-0016G | W580 - N&S 680 Conn | 20.56 | WB, RIGHT | 1 | — | A | 3'-6" | 3'-6" |
| 159L AND 159R | 33-0645S | Big Canyon Creek | 23.32 | NB, RIGHT NB, LEFT | 1 1 | — | A | 3'-6" | 7'-0" |
| 137 | 33-0644F | Ramp Off to WB 580 S680 - W580 Conn OC | 20.36 | SB, LEFT | 1 | — | A | 3'-6" | 3'-6" |
| 160 | 33-0356 | Main Line/Amador Valley Blvd UC | 20.73 | NB, RIGHT | 1 | — | A | 3'-6" | 3'-6" |

| CONCRETE BARRIER TYPE 1 (CASE 1) ROUTE 680 | | | | | | | | | |
|--|------------|-------------------------------------|-----------|--------------------|----------------------------|---------------|-------------------|---------------------------|---|
| LOCATION ID No. (SEE ROADWAY PLANS) | BRIDGE No. | BRIDGE NAME OR FACILITY DESCRIPTION | POST MILE | DIRECTION AND SIDE | No. OF CONNECTIONS (WB-31) | | GENERAL PLAN TYPE | TRANSITION LENGTH EA (LF) | CONCRETE BARRIER TRANSITION TOTAL LENGTH (LF) |
| | | | | | APPROACH END | DEPARTURE END | | | |
| 157 | 33-0371G | Main Line 680-580 Sep | 20.03 | NB, RIGHT | 1 | — | A | 3'-6" | 3'-6" |

| CONCRETE BARRIER TYPE 1 (MOD) ROUTE 680 | | | | | | | | | |
|---|------------|-------------------------------------|-----------|--------------------|----------------------------|---------------|-------------------|---------------------------|---|
| LOCATION ID No. (SEE ROADWAY PLANS) | BRIDGE No. | BRIDGE NAME OR FACILITY DESCRIPTION | POST MILE | DIRECTION AND SIDE | No. OF CONNECTIONS (WB-31) | | GENERAL PLAN TYPE | TRANSITION LENGTH EA (LF) | CONCRETE BARRIER TRANSITION TOTAL LENGTH (LF) |
| | | | | | APPROACH END | DEPARTURE END | | | |
| 144 | 33-0429R | Main Line/Grimmer Ave UC | 3.35 | NB, RIGHT | 1 | — | A | 3'-6" | 3'-6" |

| CONCRETE BARRIER TYPE 25 WITH SOUNDWALL ROUTE 680 | | | | | | | | | |
|---|------------|--|-----------|--------------------|----------------------------|---------------|-------------------|---------------------------|---|
| LOCATION ID No. (SEE ROADWAY PLANS) | BRIDGE No. | BRIDGE NAME OR FACILITY DESCRIPTION | POST MILE | DIRECTION AND SIDE | No. OF CONNECTIONS (WB-31) | | GENERAL PLAN TYPE | TRANSITION LENGTH EA (LF) | CONCRETE BARRIER TRANSITION TOTAL LENGTH (LF) |
| | | | | | APPROACH END | DEPARTURE END | | | |
| 145 | N/A | Main Line/750' North of Palm Ave | 6.05 | NB, LEFT | 1 | — | A | 9'-4" | 9'-4" |
| 136 | N/A | Main Line/2000' South of SB On from Alcosta Blvd | 21.35 | SB, LEFT | 1 | — | A | 9'-4" | 9'-4" |

NOTE:
 For construction details of barrier transitions lengths identified in these location tables, refer to the specific barrier type sheet in each table description.

NOTE:
 The contractor must verify all controlling field dimensions before ordering or fabricating any material.

| | | | | | | |
|-----------------------------------|--|------------------------|---|--|-------------------|--|
| BRANCH CHIEF <u>DAVID NEUMANN</u> | DESIGN BY VICTOR LOPEZ | CHECKED JOEL MAGANA | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES DESIGN AND TECHNICAL SERVICES SPECIAL DESIGNS BRANCH B | BRIDGE NO. VARIES | CONCRETE BARRIER TRANSITIONS LOCATION TABLE - ROUTE 680 No. 1 |
| | DETAILS BY SHUMEI JIANG BOB EDWARDS | CHECKED JOEL MAGANA | | | POST MILE VARIES | |
| | QUANTITIES BY JOEL MAGANA | CHECKED MICHAEL CHARAK | | | VARIES | |

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 UNIT: 3619 PROJECT NUMBER & PHASE: 0414000064-1 CONTRACT NO.: 04-205211 DISREGARD PRINTS BEARING EARLIER REVISION DATES
 REVISION DATES: 7-08-14, 2-17-15, 2-19-15, 10-03-15 SHEET 32 OF 33
 FILE => 04-295211_u-misc-dt32-sheet.dgn

| | | | | | |
|------|--------|---------|--------------------------|-----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 04 | Ala | 580,680 | Var | 143 | 143 |

Victor Lopez 2-19-15
 REGISTERED CIVIL ENGINEER DATE

3-30-15
 PLANS APPROVAL DATE

No. C61373
 Exp. 6/30/15
 CIVIL
 STATE OF CALIFORNIA

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CONCRETE BARRIER TYPE 27 AND RETAINING WALL (CASE 3) ROUTE 680

| LOCATION ID No. (SEE ROADWAY PLANS) | BRIDGE No. | BRIDGE NAME OR FACILITY DESCRIPTION | POST MILE | DIRECTION AND SIDE | No. OF CONNECTIONS (WB-31) | | GENERAL PLAN TYPE | TRANSITION LENGTH EA (LF) | CONCRETE BARRIER TRANSITION TOTAL LENGTH (LF) |
|--|------------|---|-----------|--------------------|----------------------------|---------------|-------------------|---------------------------|---|
| | | | | | APPROACH END | DEPARTURE END | | | |
| 134R | N/A | On from Alcosta Blvd Ramp | 21.73 | SB, LEFT | 1 | — | N/A | 4'-8" | 4'-8" |
| 135 | N/A | Main Line/500' South of SB On from Alcosta Blvd | 21.64 | SB, LEFT | 1 | — | N/A | 4'-8" | 4'-8" |

CONCRETE BARRIER TYPE 60 ROUTE 680

| LOCATION ID No. (SEE ROADWAY PLANS) | BRIDGE No. | BRIDGE NAME OR FACILITY DESCRIPTION | POST MILE | DIRECTION AND SIDE | No. OF CONNECTIONS (WB-31) | | GENERAL PLAN TYPE | TRANSITION LENGTH EA (LF) | CONCRETE BARRIER TRANSITION TOTAL LENGTH (LF) |
|--|------------|-------------------------------------|-----------|--------------------|----------------------------|---------------|-------------------|---------------------------|---|
| | | | | | APPROACH END | DEPARTURE END | | | |
| 134L | N/A | On from Alcosta Blvd Ramp | 21.73 | SB, LEFT | 1 | — | N/A | 4'-8" | 4'-8" |

NOTE:
The contractor must verify all controlling field dimensions before ordering or fabricating any material.

NOTE:
For construction details of barrier transition lengths identified in these location tables, refer to the specific barrier type sheet in each table description.

| | | | | | | | |
|-----------------------------------|------------|--------------------------------|------------------------|--|--|------------|--|
| BRANCH CHIEF <u>DAVID NEUMANN</u> | DESIGN | BY VICTOR LOPEZ | CHECKED JOEL MAGANA | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES DESIGN AND TECHNICAL SERVICES SPECIAL DESIGNS BRANCH B | BRIDGE NO. | CONCRETE BARRIER TRANSITIONS LOCATION TABLE - ROUTE 680 No. 2 |
| | DETAILS | BY SHUMEI JIANG BOB EDWARDS | CHECKED JOEL MAGANA | | | VARIES | |
| | QUANTITIES | BY JOEL MAGANA | CHECKED MICHAEL CHARAK | | | VARIES | |

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)
 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS
 UNIT: 3619
 PROJECT NUMBER & PHASE: 0414000064-1
 CONTRACT NO.: 04-205211
 DISREGARD PRINTS BEARING EARLIER REVISION DATES

| REVISION DATES | | | | SHEET | OF |
|----------------|---------|---------|---------|-------|----|
| 7-08-14 | 2-12-15 | 3-26-14 | 1-28-15 | 33 | 33 |

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USERNAME => s141070 DATE PLOTTED => 16-APR-2015 TIME PLOTTED => 1:31:17